APPENDIX P
Category B Analytical Reports
Concrete, Ash Pit, and Recharge Basin

ANALYTICAL REPORT

Job Number: 320-37224-1

Job Description: Suffolk County Firematics Site

For:
PW Grosser Consulting
630 Johnson Ave
Suite 7
Bohemia, NY 11716

Attention: Ms. Heather Moran-Botta

Approved for release.
Thomas A Chupela
Project Management Assistant I
4/10/2018 10:27 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
04/10/2018

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Job Number: 320-37224-1

Job Description: Suffolk County Firematics Site

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Thomas A Chupela
Project Management Assistant I
4/10/2018 10:27 AM

Designee for
Melissa Haas

Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 7
- Detection Summary 8
- Method Summary 9
- Client Sample Results 10
- Isotope Dilution Summary 13
- QC Sample Results 15
- Definitions 24
- QC Association 25
- Chronicle 26
- Certification Summary 27

Organic Sample Data 28

- LCMS 28
  - Method PFC IDA 28
    - Method PFC IDA QC Summary 29
    - Method PFC IDA Sample Data 57
    - Standards Data 97
      - Method PFC IDA ICAL Data 97
      - Method PFC IDA CCAL Data 244
    - Raw QC Data 384
      - Method PFC IDA Blank Data 384
      - Method PFC IDA LCS/LCSD Data 418
      - Method PFC IDA MS/MSD Data 465
    - Method PFC IDA Run Logs 521

Table of Contents

Method PFC IDA Prep Data 527

Inorganic Sample Data 562

General Chemistry Data 562

Gen Chem Cover Page 563

Gen Chem MDL 564

Gen Chem Analysis Run Log 566

Gen Chem Prep Data 567

Shipping and Receiving Documents 568

Client Chain of Custody 569

Sample Receipt Checklist 570

CASE NARRATIVE

Client: PW Grosser Consulting

Project: Suffolk County Firematics Site

Report Number: 320-37224-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT
The samples were received on 3/19/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

PERFLUORINATED HYDROCARBONS (PFC)
Sample Ash Pit (320-37224-2) was analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 03/27/2018 and 04/02/2018 and analyzed on 03/30/2018 and 04/06/2018.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for several analytes in preparation batch 320-215068 and analytical batch 320-215776 were outside control limits. Sample non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Isotope Dilution Analyte (IDA) recoveries are significantly above the method recommended limit for M2-8:2FTS in the following matrix spike / matrix spike duplicate samples (MS/MSD): Ash Pit (320-37224-2), (320-37224-A-2-B MS) and (320-37224-A-2-C MSD). These samples were re-analyzed at dilution with improved IDA recoveries; however, the target analyte 8:2FTS was diluted below the level of quantitation and as a result this analyte could not be evaluated for accuracy or precision. The original set of data is reported.

Isotope Dilution Analyte (IDA) recovery of M2-6:2FTS is above the method recommended limit for the following samples: Ash Pit (320-37224-2), (320-37224-A-2-B MS), (320-37224-A-2-E MS), (320-37224-A-2-C MSD) and (320-37224-A-2-F MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

The laboratory control sample (LCS) for preparation batch 320-215068 and analytical batch 320-215776 recovered outside control limits for 6:2FTS. This analyte was biased high in the LCS and were detected in the associated samples; therefore, the samples were re-extracted. The re-extraction was outside of holding time, therefore, both sets of data are reported.

The method blank for preparation batch 320-215068 and analytical batch 320-215776 contained 6:2FTS above the method detection limit. This target analyte concentration was greater than the reporting limit (RL); therefore, re-extraction of samples was performed. The re-extraction was outside of holding time, therefore, both sets of data are reported.

The concentration of 6:2FTS associated with the following samples exceeded the instrument calibration range: (LCS 320-215068/2-A) and (MB 320-215068/1-A). This analyte has been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The samples had black powdery sediment (appeared carbon-like) which was observed at transfer of extract to solid phase extraction column. The sediment did not pass through column at elution. Extract has a yellowish hue. Ash Pit (320-37224-2), (320-37224-A-2 MS) and (320-37224-A-2 MSD)

The following samples were re-prepared outside of preparation holding time due to high levels of 6:2 FTS contamination in the method

blank and laboratory control sample.: Ash Pit (320-37224-2), (320-37224-A-2 MS) and (320-37224-A-2 MSD).

Perfluorooctanesulfonic acid (PFOS) was detected in method blank MB 320-215068/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Several analytes failed the recovery criteria low for the MS of sample Ash PitMS (320-37224-2) in batch 320-215776. Perfluorodecanoic acid (PFDA) failed the recovery criteria high.

For the MSD of sample Ash PitMSD (320-37224-2) in batch 320-215776, Several analytes failed the recovery criteria low. 6:2FTS failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Sample Recharge Basin (320-37224-1) was analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 03/27/2018 and analyzed on 03/28/2018.

Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2FTS in the following sample: Recharge Basin (320-37224-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 310-215106.

Perfluorobutanoic acid (PFBA) and Perfluorohexanesulfonic acid (PFHxS) were detected in method blank MB 320-215106/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Sample Ash Pit (320-37224-2) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/22/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 320-37224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-37224-1	Recharge Basin	Water	03/16/18 11:00	03/19/18 08:50
320-37224-2	Ash Pit	Solid	03/16/18 09:45	03/19/18 08:50

Detection Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 320-37224-1

Client Sample ID: Recharge Basin — Lab Sample ID: 320-37224-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.97	B	2.01	0.35	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.58		2.01	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.37		2.01	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.77		2.01	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.12		2.01	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.56		2.01	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.22	J	2.01	0.31	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	1.76	J	2.01	1.10	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.73	J	2.01	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.14	B	2.01	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.21	J	2.01	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13.3		2.01	0.54	ng/L	1		537 (modified)	Total/NA
6:2FTS	9.74	J	20.1	2.01	ng/L	1		537 (modified)	Total/NA
8:2FTS	3.00	J	20.1	2.01	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Ash Pit — Lab Sample ID: 320-37224-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.00077		0.00048	0.000068	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.0041	F1	0.00048	0.00010	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.0041	F1	0.00048	0.000070	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.024	F2	0.00048	0.00021	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.0096	F1 F2	0.00048	0.000087	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.016	F1 F2	0.00048	0.000053	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.0039		0.00048	0.000087	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.0043		0.00048	0.00016	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorotridecanoic Acid (PFTriA)	0.0012		0.00048	0.00012	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.0015		0.00048	0.00013	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0011		0.00048	0.000060	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0051	F1 F2	0.00048	0.000075	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.00036	J	0.00048	0.000084	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.032	B	0.0012	0.00048	mg/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctane Sulfonamide (FOSA)	0.00049		0.00048	0.00020	mg/Kg	1	☼	537 (modified)	Total/NA
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0065		0.0048	0.00094	mg/Kg	1	☼	537 (modified)	Total/NA
6:2FTS	0.022	B * F2	0.0048	0.00036	mg/Kg	1	☼	537 (modified)	Total/NA
8:2FTS	0.0011	J	0.0048	0.00060	mg/Kg	1	☼	537 (modified)	Total/NA
6:2FTS - RE	0.00045	J H	0.0049	0.00036	mg/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 320-37224-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample ID: Recharge Basin

Date Collected: 03/16/18 11:00
Date Received: 03/19/18 08:50

Lab Sample ID: 320-37224-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.97**	**B**	2.01	0.35	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluoropentanoic acid (PFPeA)	**5.58**		2.01	0.49	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorohexanoic acid (PFHxA)	**6.37**		2.01	0.58	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluoroheptanoic acid (PFHpA)	**3.77**		2.01	0.25	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorooctanoic acid (PFOA)	**4.12**		2.01	0.85	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorononanoic acid (PFNA)	**4.56**		2.01	0.27	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorodecanoic acid (PFDA)	**1.22**	**J**	2.01	0.31	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluoroundecanoic acid (PFUnA)	**1.76**	**J**	2.01	1.10	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.01	0.55	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorotridecanoic Acid (PFTriA)	1.30	U	2.01	1.30	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.01	0.29	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorobutanesulfonic acid (PFBS)	**0.73**	**J**	2.01	0.20	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorohexanesulfonic acid (PFHxS)	**4.14**	**B**	2.01	0.17	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.21**	**J**	2.01	0.19	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorooctanesulfonic acid (PFOS)	**13.3**		2.01	0.54	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.01	0.32	ng/L		03/27/18 20:41	03/28/18 19:46	1
Perfluorooctane Sulfonamide (FOSA)	0.35	U	2.01	0.35	ng/L		03/27/18 20:41	03/28/18 19:46	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.11	U	20.1	3.11	ng/L		03/27/18 20:41	03/28/18 19:46	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.91	U	20.1	1.91	ng/L		03/27/18 20:41	03/28/18 19:46	1
6:2FTS	**9.74**	**J**	20.1	2.01	ng/L		03/27/18 20:41	03/28/18 19:46	1
8:2FTS	**3.00**	**J**	20.1	2.01	ng/L		03/27/18 20:41	03/28/18 19:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*70*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C5 PFPeA	*90*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C2 PFHxA	*93*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C4-PFHpA	*95*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C4 PFOA	*101*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C5 PFNA	*101*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C2 PFDA	*96*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C2 PFUnA	*89*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C2 PFDoA	*79*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C2-PFTeDA	*65*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C3-PFBS	*85*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
18O2 PFHxS	*98*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C4 PFOS	*93*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
13C8 FOSA	*96*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
d3-NMeFOSAA	*92*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
d5-NEtFOSAA	*76*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
M2-6:2FTS	*171*	*	*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*
M2-8:2FTS	*146*		*25 - 150*	*03/27/18 20:41*	*03/28/18 19:46*	*1*

Client Sample ID: Ash Pit

Date Collected: 03/16/18 09:45
Date Received: 03/19/18 08:50

Lab Sample ID: 320-37224-2

Matrix: Solid
Percent Solids: 40.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.00077**		0.00048	0.000068	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluoropentanoic acid (PFPeA)	0.00019	U	0.00048	0.00019	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorohexanoic acid (PFHxA)	**0.0041**	**F1**	0.00048	0.00010	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluoroheptanoic acid (PFHpA)	**0.0041**	**F1**	0.00048	0.000070	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorooctanoic acid (PFOA)	**0.024**	**F2**	0.00048	0.00021	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorononanoic acid (PFNA)	**0.0096**	**F1 F2**	0.00048	0.000087	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorodecanoic acid (PFDA)	**0.016**	**F1 F2**	0.00048	0.000053	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluoroundecanoic acid (PFUnA)	**0.0039**		0.00048	0.000087	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorododecanoic acid (PFDoA)	**0.0043**		0.00048	0.00016	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorotridecanoic Acid (PFTriA)	**0.0012**		0.00048	0.00012	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorotetradecanoic acid (PFTeA)	**0.0015**		0.00048	0.00013	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorobutanesulfonic acid (PFBS)	**0.0011**		0.00048	0.000060	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorohexanesulfonic acid (PFHxS)	**0.0051**	**F1 F2**	0.00048	0.000075	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.00036**	**J**	0.00048	0.000084	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorooctanesulfonic acid (PFOS)	**0.032**	**B**	0.0012	0.00048	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorodecanesulfonic acid (PFDS)	0.000094	U	0.00048	0.000094	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
Perfluorooctane Sulfonamide (FOSA)	**0.00049**		0.00048	0.00020	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	**0.0065**		0.0048	0.00094	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00089	U	0.0048	0.00089	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
6:2FTS	**0.022**	**B * F2**	0.0048	0.00036	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1
8:2FTS	**0.0011**	**J**	0.0048	0.00060	mg/Kg	☼	03/27/18 15:42	03/30/18 18:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*29*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C5 PFPeA	*40*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C2 PFHxA	*40*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C4-PFHpA	*45*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C4 PFOA	*48*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C5 PFNA	*52*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C2 PFDA	*61*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C2 PFUnA	*69*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C2 PFDoA	*67*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C2-PFTeDA	*65*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C3-PFBS	*54*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
18O2 PFHxS	*55*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C4 PFOS	*56*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
13C8 FOSA	*53*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
d3-NMeFOSAA	*94*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
d5-NEtFOSAA	*96*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
M2-6:2FTS	*158*	*	*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*
M2-8:2FTS	*266*	*	*25 - 150*	*03/27/18 15:42*	*03/30/18 18:24*	*1*

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/19/18 08:50

Lab Sample ID: 320-37224-2
Matrix: Solid
Percent Solids: 40.8

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2FTS	0.00045	J H	0.0049	0.00036	mg/Kg	☼	04/02/18 14:27	04/06/18 14:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2FTS	*174*	*	*25 - 150*	*04/02/18 14:27*	*04/06/18 14:31*	*1*

Isotope Dilution Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 320-37224-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-37224-2	Ash Pit	29	40	40	45	48	52	61	69
320-37224-2 - RE	Ash Pit								
320-37224-2 MS	Ash Pit	47	53	55	59	62	66	77	82
320-37224-2 MS - RE	Ash Pit								
320-37224-2 MSD	Ash Pit	50	59	59	64	68	75	88	89
320-37224-2 MSD - RE	Ash Pit								
LCS 320-215068/2-A	Lab Control Sample	88	84	87	92	92	91	93	98
LCS 320-215908/2-A	Lab Control Sample								
MB 320-215068/1-A	Method Blank	84	85	86	94	88	89	90	94
MB 320-215908/1-A	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	3C3-PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOS (25-150)	-NEtFOS (25-150)
320-37224-2	Ash Pit	67	65	54	55	56	53	94	96
320-37224-2 - RE	Ash Pit								
320-37224-2 MS	Ash Pit	77	74	64	65	69	59	103	112
320-37224-2 MS - RE	Ash Pit								
320-37224-2 MSD	Ash Pit	88	73	68	74	74	63	110	120
320-37224-2 MSD - RE	Ash Pit								
LCS 320-215068/2-A	Lab Control Sample	95	99	85	93	90	79	85	87
LCS 320-215908/2-A	Lab Control Sample								
MB 320-215068/1-A	Method Blank	91	94	82	93	85	74	77	77
MB 320-215908/1-A	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
320-37224-2	Ash Pit	158 *	266 *						
320-37224-2 - RE	Ash Pit	174 *							
320-37224-2 MS	Ash Pit	162 *	218 *						
320-37224-2 MS - RE	Ash Pit	188 *							
320-37224-2 MSD	Ash Pit	189 *	251 *						
320-37224-2 MSD - RE	Ash Pit	223 *							
LCS 320-215068/2-A	Lab Control Sample	93	96						
LCS 320-215908/2-A	Lab Control Sample	68							
MB 320-215068/1-A	Method Blank	93	91						
MB 320-215908/1-A	Method Blank	64							

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4-PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2-PFTeDA
13C3-PFBS = 13C3-PFBS

PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2FTS
M282FTS = M2-8:2FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-37224-1	Recharge Basin	70	90	93	95	101	101	96	89
LCS 320-215106/2-A	Lab Control Sample	99	97	93	94	96	91	85	80
LCSD 320-215106/3-A	Lab Control Sample Dup	108	104	102	110	98	98	97	84
MB 320-215106/1-A	Method Blank	107	106	100	102	100	96	95	91

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	3C3-PFBS	PFHxS	PFOS	PFOSA	-NMeFOSA	-NEtFOSA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-37224-1	Recharge Basin	79	65	85	98	93	96	92	76
LCS 320-215106/2-A	Lab Control Sample	82	79	100	103	95	92	77	70
LCSD 320-215106/3-A	Lab Control Sample Dup	84	88	106	112	103	104	85	83
MB 320-215106/1-A	Method Blank	86	87	105	113	104	104	80	78

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
320-37224-1	Recharge Basin	171 *	146
LCS 320-215106/2-A	Lab Control Sample	115	105
LCSD 320-215106/3-A	Lab Control Sample Dup	119	104
MB 320-215106/1-A	Method Blank	112	100

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4-PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2-PFTeDA
13C3-PFBS = 13C3-PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2FTS
M282FTS = M2-8:2FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-215068/1-A
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.000028	U	0.00020	0.000028	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluoropentanoic acid (PFPeA)	0.000077	U	0.00020	0.000077	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorohexanoic acid (PFHxA)	0.000042	U	0.00020	0.000042	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluoroheptanoic acid (PFHpA)	0.000029	U	0.00020	0.000029	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorooctanoic acid (PFOA)	0.000086	U	0.00020	0.000086	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorononanoic acid (PFNA)	0.000036	U	0.00020	0.000036	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorodecanoic acid (PFDA)	0.000022	U	0.00020	0.000022	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluoroundecanoic acid (PFUnA)	0.000036	U	0.00020	0.000036	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorododecanoic acid (PFDoA)	0.000067	U	0.00020	0.000067	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorotridecanoic Acid (PFTriA)	0.000051	U	0.00020	0.000051	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorotetradecanoic acid (PFTeA)	0.000054	U	0.00020	0.000054	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorobutanesulfonic acid (PFBS)	0.000025	U	0.00020	0.000025	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.000031	U	0.00020	0.000031	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.000035	U	0.00020	0.000035	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorooctanesulfonic acid (PFOS)	0.000257	J	0.00050	0.00020	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorodecanesulfonic acid (PFDS)	0.000039	U	0.00020	0.000039	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
Perfluorooctane Sulfonamide (FOSA)	0.000082	U	0.00020	0.000082	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00039	U	0.0020	0.00039	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00037	U	0.0020	0.00037	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
6:2FTS	0.0502	E	0.0020	0.00015	mg/Kg		03/27/18 15:42	03/30/18 18:08	1
8:2FTS	0.00025	U	0.0020	0.00025	mg/Kg		03/27/18 15:42	03/30/18 18:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C5 PFPeA	*85*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C2 PFHxA	*86*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C4-PFHpA	*94*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C4 PFOA	*88*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C5 PFNA	*89*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C2 PFDA	*90*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C2 PFUnA	*94*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C2 PFDoA	*91*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C2-PFTeDA	*94*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C3-PFBS	*82*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
18O2 PFHxS	*93*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C4 PFOS	*85*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
13C8 FOSA	*74*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
d3-NMeFOSAA	*77*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
d5-NEtFOSAA	*77*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
M2-6:2FTS	*93*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*
M2-8:2FTS	*91*		*25 - 150*	*03/27/18 15:42*	*03/30/18 18:08*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-215068/2-A
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.00202		mg/Kg		101	81 - 133
Perfluoropentanoic acid (PFPeA)	0.00200	0.00184		mg/Kg		92	79 - 120
Perfluorohexanoic acid (PFHxA)	0.00200	0.00197		mg/Kg		99	75 - 125
Perfluoroheptanoic acid (PFHpA)	0.00200	0.00186		mg/Kg		93	76 - 124
Perfluorooctanoic acid (PFOA)	0.00200	0.00181		mg/Kg		90	76 - 121
Perfluorononanoic acid (PFNA)	0.00200	0.00197		mg/Kg		99	74 - 126
Perfluorodecanoic acid (PFDA)	0.00200	0.00202		mg/Kg		101	74 - 124
Perfluoroundecanoic acid (PFUnA)	0.00200	0.00179		mg/Kg		90	74 - 114
Perfluorododecanoic acid (PFDoA)	0.00200	0.00187		mg/Kg		94	75 - 123
Perfluorotridecanoic Acid (PFTriA)	0.00200	0.00200		mg/Kg		100	43 - 116
Perfluorotetradecanoic acid (PFTeA)	0.00200	0.00184		mg/Kg		92	22 - 129
Perfluorobutanesulfonic acid (PFBS)	0.00177	0.00173		mg/Kg		98	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	0.00182	0.00162		mg/Kg		89	75 - 121
Perfluoroheptanesulfonic Acid (PFHpS)	0.00190	0.00181		mg/Kg		95	78 - 146
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.00194		mg/Kg		104	69 - 131
Perfluorodecanesulfonic acid (PFDS)	0.00193	0.00181		mg/Kg		94	54 - 113
Perfluorooctane Sulfonamide (FOSA)	0.00200	0.00194		mg/Kg		97	62 - 135
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00200	0.00189	J	mg/Kg		95	65 - 135
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00200	0.00198	J	mg/Kg		99	65 - 135
6:2FTS	0.00190	0.0146	*	mg/Kg		769	65 - 135
8:2FTS	0.00192	0.00182	J	mg/Kg		95	65 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*88*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4-PFHpA	*92*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*98*		*25 - 150*
13C2 PFDoA	*95*		*25 - 150*
13C2-PFTeDA	*99*		*25 - 150*
13C3-PFBS	*85*		*25 - 150*
18O2 PFHxS	*93*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
13C8 FOSA	*79*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-215068/2-A
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215068

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d3-NMeFOSAA	85		25 - 150
d5-NEtFOSAA	87		25 - 150
M2-6:2FTS	93		25 - 150
M2-8:2FTS	96		25 - 150

Lab Sample ID: 320-37224-2 MS
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	0.00077		0.00490	0.00694		mg/Kg	☼	126	81 - 133
Perfluoropentanoic acid (PFPeA)	0.00019	U	0.00490	0.00497		mg/Kg	☼	101	79 - 120
Perfluorohexanoic acid (PFHxA)	0.0041	F1	0.00490	0.00706	F1	mg/Kg	☼	60	75 - 125
Perfluoroheptanoic acid (PFHpA)	0.0041	F1	0.00490	0.00706	F1	mg/Kg	☼	60	76 - 124
Perfluorooctanoic acid (PFOA)	0.024	F2	0.00490	0.0228	4	mg/Kg	☼	-29	76 - 121
Perfluorononanoic acid (PFNA)	0.0096	F1 F2	0.00490	0.0123	F1	mg/Kg	☼	55	74 - 126
Perfluorodecanoic acid (PFDA)	0.016	F1 F2	0.00490	0.0241	F1	mg/Kg	☼	168	74 - 124
Perfluoroundecanoic acid (PFUnA)	0.0039		0.00490	0.00932		mg/Kg	☼	110	74 - 114
Perfluorododecanoic acid (PFDoA)	0.0043		0.00490	0.00996		mg/Kg	☼	116	75 - 123
Perfluorotridecanoic Acid (PFTriA)	0.0012		0.00490	0.00668		mg/Kg	☼	111	43 - 116
Perfluorotetradecanoic acid (PFTeA)	0.0015		0.00490	0.00658		mg/Kg	☼	103	22 - 129
Perfluorobutanesulfonic acid (PFBS)	0.0011		0.00433	0.00422		mg/Kg	☼	73	73 - 142
Perfluorohexanesulfonic acid (PFHxS)	0.0051	F1 F2	0.00446	0.00963		mg/Kg	☼	101	75 - 121
Perfluoroheptanesulfonic Acid (PFHpS)	0.00036	J	0.00467	0.00469		mg/Kg	☼	93	78 - 146
Perfluorooctanesulfonic acid (PFOS)	0.032	B	0.00455	0.0235	4	mg/Kg	☼	-195	69 - 131
Perfluorodecanesulfonic acid (PFDS)	0.000094	U	0.00473	0.00456		mg/Kg	☼	97	54 - 113
Perfluorooctane Sulfonamide (FOSA)	0.00049		0.00490	0.00536		mg/Kg	☼	99	62 - 135
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0065		0.00490	0.0111		mg/Kg	☼	93	65 - 135
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00089	U	0.00490	0.00537		mg/Kg	☼	109	65 - 135
6:2FTS	0.022	B * F2	0.00465	0.0118	4	mg/Kg	☼	-218	65 - 135
8:2FTS	0.0011	J	0.00470	0.00494		mg/Kg	☼	83	65 - 135

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	47		25 - 150
13C5 PFPeA	53		25 - 150
13C2 PFHxA	55		25 - 150
13C4-PFHpA	59		25 - 150
13C4 PFOA	62		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 320-37224-2 MS
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215068

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C5 PFNA	66		25 - 150
13C2 PFDA	77		25 - 150
13C2 PFUnA	82		25 - 150
13C2 PFDoA	77		25 - 150
13C2-PFTeDA	74		25 - 150
13C3-PFBS	64		25 - 150
18O2 PFHxS	65		25 - 150
13C4 PFOS	69		25 - 150
13C8 FOSA	59		25 - 150
d3-NMeFOSAA	103		25 - 150
d5-NEtFOSAA	112		25 - 150
M2-6:2FTS	162	*	25 - 150
M2-8:2FTS	218	*	25 - 150

Lab Sample ID: 320-37224-2 MSD
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.00077		0.00486	0.00681		mg/Kg	☼	124	81 - 133	2	30
Perfluoropentanoic acid (PFPeA)	0.00019	U	0.00486	0.00464		mg/Kg	☼	95	79 - 120	7	30
Perfluorohexanoic acid (PFHxA)	0.0041	F1	0.00486	0.00616	F1	mg/Kg	☼	42	75 - 125	14	30
Perfluoroheptanoic acid (PFHpA)	0.0041	F1	0.00486	0.00549	F1	mg/Kg	☼	28	76 - 124	25	30
Perfluorooctanoic acid (PFOA)	0.024	F2	0.00486	0.0113	4 F2	mg/Kg	☼	-265	76 - 121	67	30
Perfluorononanoic acid (PFNA)	0.0096	F1 F2	0.00486	0.00777	F1 F2	mg/Kg	☼	-38	74 - 126	45	30
Perfluorodecanoic acid (PFDA)	0.016	F1 F2	0.00486	0.0135	F1 F2	mg/Kg	☼	-49	74 - 124	56	30
Perfluoroundecanoic acid (PFUnA)	0.0039		0.00486	0.00803		mg/Kg	☼	85	74 - 114	15	30
Perfluorododecanoic acid (PFDoA)	0.0043		0.00486	0.00830		mg/Kg	☼	83	75 - 123	18	30
Perfluorotridecanoic Acid (PFTriA)	0.0012		0.00486	0.00551		mg/Kg	☼	88	43 - 116	19	30
Perfluorotetradecanoic acid (PFTeA)	0.0015		0.00486	0.00622		mg/Kg	☼	96	22 - 129	6	30
Perfluorobutanesulfonic acid (PFBS)	0.0011		0.00430	0.00429		mg/Kg	☼	75	73 - 142	2	30
Perfluorohexanesulfonic acid (PFHxS)	0.0051	F1 F2	0.00443	0.00522	F1 F2	mg/Kg	☼	2	75 - 121	59	30
Perfluoroheptanesulfonic Acid (PFHpS)	0.00036	J	0.00463	0.00427		mg/Kg	☼	84	78 - 146	10	30
Perfluorooctanesulfonic acid (PFOS)	0.032	B	0.00451	0.0186	4	mg/Kg	☼	-304	69 - 131	23	30
Perfluorodecanesulfonic acid (PFDS)	0.000094	U	0.00469	0.00440		mg/Kg	☼	94	54 - 113	4	30
Perfluorooctane Sulfonamide (FOSA)	0.00049		0.00486	0.00525		mg/Kg	☼	98	62 - 135	2	30
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0065		0.00486	0.0105		mg/Kg	☼	82	65 - 135	6	30
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00089	U	0.00486	0.00485	J	mg/Kg	☼	100	65 - 135	10	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 320-37224-2 MSD
Matrix: Solid
Analysis Batch: 215776

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2FTS	0.022	B * F2	0.00461	0.0330	4 F2	mg/Kg	☼	240	65 - 135	95	30
8:2FTS	0.0011	J	0.00466	0.00518		mg/Kg	☼	88	65 - 135	5	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*50*		*25 - 150*
13C5 PFPeA	*59*		*25 - 150*
13C2 PFHxA	*59*		*25 - 150*
13C4-PFHpA	*64*		*25 - 150*
13C4 PFOA	*68*		*25 - 150*
13C5 PFNA	*75*		*25 - 150*
13C2 PFDA	*88*		*25 - 150*
13C2 PFUnA	*89*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
13C2-PFTeDA	*73*		*25 - 150*
13C3-PFBS	*68*		*25 - 150*
18O2 PFHxS	*74*		*25 - 150*
13C4 PFOS	*74*		*25 - 150*
13C8 FOSA	*63*		*25 - 150*
d3-NMeFOSAA	*110*		*25 - 150*
d5-NEtFOSAA	*120*		*25 - 150*
M2-6:2FTS	*189*	*	*25 - 150*
M2-8:2FTS	*251*	*	*25 - 150*

Lab Sample ID: MB 320-215106/1-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.420	J	2.00	0.35	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorotridecanoic Acid (PFTriA)	1.30	U	2.00	1.30	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.285	J	2.00	0.17	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32	ng/L		03/27/18 20:41	03/28/18 18:59	1
Perfluorooctane Sulfonamide (FOSA)	0.35	U	2.00	0.35	ng/L		03/27/18 20:41	03/28/18 18:59	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10	ng/L		03/27/18 20:41	03/28/18 18:59	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-215106/1-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90	ng/L		03/27/18 20:41	03/28/18 18:59	1
6:2FTS	2.00	U	20.0	2.00	ng/L		03/27/18 20:41	03/28/18 18:59	1
8:2FTS	2.00	U	20.0	2.00	ng/L		03/27/18 20:41	03/28/18 18:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*107*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C5 PFPeA	*106*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C2 PFHxA	*100*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C4-PFHpA	*102*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C4 PFOA	*100*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C5 PFNA	*96*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C2 PFDA	*95*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C2 PFUnA	*91*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C2 PFDoA	*86*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C2-PFTeDA	*87*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C3-PFBS	*105*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
18O2 PFHxS	*113*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C4 PFOS	*104*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
13C8 FOSA	*104*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
d3-NMeFOSAA	*80*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
d5-NEtFOSAA	*78*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
M2-6:2FTS	*112*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*
M2-8:2FTS	*100*		*25 - 150*	*03/27/18 20:41*	*03/28/18 18:59*	*1*

Lab Sample ID: LCS 320-215106/2-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.19		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	37.65		ng/L		94	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	40.24		ng/L		101	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	37.78		ng/L		94	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	35.70		ng/L		89	64 - 124
Perfluorononanoic acid (PFNA)	40.0	37.26		ng/L		93	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.88		ng/L		95	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	33.34		ng/L		83	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	35.70		ng/L		89	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	35.23		ng/L		88	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	37.34		ng/L		93	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	32.21		ng/L		91	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.68		ng/L		90	63 - 123

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-215106/2-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.95		ng/L		97	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	32.86		ng/L		89	67 - 127
Perfluorodecanesulfonic acid (PFDS)	38.6	33.01		ng/L		86	68 - 128
Perfluorooctane Sulfonamide (FOSA)	40.0	36.09		ng/L		90	70 - 130
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.0	39.47		ng/L		99	67 - 127
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	40.0	37.88		ng/L		95	65 - 125
6:2FTS	37.9	41.48		ng/L		109	66 - 126
8:2FTS	38.3	36.92		ng/L		96	67 - 127

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C4-PFHpA	*94*		*25 - 150*
13C4 PFOA	*96*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C2 PFUnA	*80*		*25 - 150*
13C2 PFDoA	*82*		*25 - 150*
13C2-PFTeDA	*79*		*25 - 150*
13C3-PFBS	*100*		*25 - 150*
18O2 PFHxS	*103*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*92*		*25 - 150*
d3-NMeFOSAA	*77*		*25 - 150*
d5-NEtFOSAA	*70*		*25 - 150*
M2-6:2FTS	*115*		*25 - 150*
M2-8:2FTS	*105*		*25 - 150*

Lab Sample ID: LCSD 320-215106/3-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 215106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	38.08		ng/L		95	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	40.0	38.41		ng/L		96	66 - 126	2	30
Perfluorohexanoic acid (PFHxA)	40.0	38.73		ng/L		97	66 - 126	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	36.50		ng/L		91	66 - 126	3	30
Perfluorooctanoic acid (PFOA)	40.0	38.37		ng/L		96	64 - 124	7	30
Perfluorononanoic acid (PFNA)	40.0	38.42		ng/L		96	68 - 128	3	30
Perfluorodecanoic acid (PFDA)	40.0	37.71		ng/L		94	69 - 129	0	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-215106/3-A
Matrix: Water
Analysis Batch: 215294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 215106

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)			40.0	35.06		ng/L		88	60 - 120	5	30
Perfluorododecanoic acid (PFDoA)			40.0	37.46		ng/L		94	71 - 131	5	30
Perfluorotridecanoic Acid (PFTriA)			40.0	35.82		ng/L		90	72 - 132	2	30
Perfluorotetradecanoic acid (PFTeA)			40.0	36.06		ng/L		90	68 - 128	3	30
Perfluorobutanesulfonic acid (PFBS)			35.4	33.36		ng/L		94	73 - 133	4	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.35		ng/L		89	63 - 123	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	37.36		ng/L		98	68 - 128	1	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.27		ng/L		95	67 - 127	7	30
Perfluorodecanesulfonic acid (PFDS)			38.6	36.05		ng/L		93	68 - 128	9	30
Perfluorooctane Sulfonamide (FOSA)			40.0	36.61		ng/L		92	70 - 130	1	30
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)			40.0	40.24		ng/L		101	67 - 127	2	30
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)			40.0	37.04		ng/L		93	65 - 125	2	30
6:2FTS			37.9	33.87		ng/L		89	66 - 126	20	30
8:2FTS			38.3	37.59		ng/L		98	67 - 127	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*108*		*25 - 150*
13C5 PFPeA	*104*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4-PFHpA	*110*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*98*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*84*		*25 - 150*
13C2 PFDoA	*84*		*25 - 150*
13C2-PFTeDA	*88*		*25 - 150*
13C3-PFBS	*106*		*25 - 150*
18O2 PFHxS	*112*		*25 - 150*
13C4 PFOS	*103*		*25 - 150*
13C8 FOSA	*104*		*25 - 150*
d3-NMeFOSAA	*85*		*25 - 150*
d5-NEtFOSAA	*83*		*25 - 150*
M2-6:2FTS	*119*		*25 - 150*
M2-8:2FTS	*104*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-215908/1-A
Matrix: Solid
Analysis Batch: 216698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2FTS	0.00015	U	0.0020	0.00015	mg/Kg		04/02/18 14:27	04/06/18 14:15	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2FTS	*64*		*25 - 150*	*04/02/18 14:27*	*04/06/18 14:15*	*1*

Lab Sample ID: LCS 320-215908/2-A
Matrix: Solid
Analysis Batch: 216698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215908

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2FTS			0.00190	0.00175	J	mg/Kg		93	65 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2FTS	*68*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances - RE

Lab Sample ID: 320-37224-2 MS
Matrix: Solid
Analysis Batch: 216698

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2FTS - RE	0.00045	J H	0.00469	0.00485	J	mg/Kg	☼	94	65 - 135		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-6:2FTS - RE	*188*	*	*25 - 150*

Lab Sample ID: 320-37224-2 MSD
Matrix: Solid
Analysis Batch: 216698

Client Sample ID: Ash Pit
Prep Type: Total/NA
Prep Batch: 215908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2FTS - RE	0.00045	J H	0.00458	0.00466	J	mg/Kg	☼	92	65 - 135	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-6:2FTS - RE	*223*	*	*25 - 150*

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	Isotope Dilution analyte is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

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

LCMS

Prep Batch: 215068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-2	Ash Pit	Total/NA	Solid	SHAKE	
MB 320-215068/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-215068/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
320-37224-2 MS	Ash Pit	Total/NA	Solid	SHAKE	
320-37224-2 MSD	Ash Pit	Total/NA	Solid	SHAKE	

Prep Batch: 215106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-1	Recharge Basin	Total/NA	Water	3535	
MB 320-215106/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-215106/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-215106/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 215294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-1	Recharge Basin	Total/NA	Water	537 (modified)	215106
MB 320-215106/1-A	Method Blank	Total/NA	Water	537 (modified)	215106
LCS 320-215106/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	215106
LCSD 320-215106/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	215106

Analysis Batch: 215776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-2	Ash Pit	Total/NA	Solid	537 (modified)	215068
MB 320-215068/1-A	Method Blank	Total/NA	Solid	537 (modified)	215068
LCS 320-215068/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	215068
320-37224-2 MS	Ash Pit	Total/NA	Solid	537 (modified)	215068
320-37224-2 MSD	Ash Pit	Total/NA	Solid	537 (modified)	215068

Prep Batch: 215908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-2 - RE	Ash Pit	Total/NA	Solid	SHAKE	
MB 320-215908/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-215908/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
320-37224-2 MS - RE	Ash Pit	Total/NA	Solid	SHAKE	
320-37224-2 MSD - RE	Ash Pit	Total/NA	Solid	SHAKE	

Analysis Batch: 216698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-2 - RE	Ash Pit	Total/NA	Solid	537 (modified)	215908
MB 320-215908/1-A	Method Blank	Total/NA	Solid	537 (modified)	215908
LCS 320-215908/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	215908
320-37224-2 MS - RE	Ash Pit	Total/NA	Solid	537 (modified)	215908
320-37224-2 MSD - RE	Ash Pit	Total/NA	Solid	537 (modified)	215908

General Chemistry

Analysis Batch: 214408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-37224-2	Ash Pit	Total/NA	Solid	D 2216	
320-37210-A-11 DU	Duplicate	Total/NA	Solid	D 2216	

Lab Chronicle

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 320-37224-1

Client Sample ID: Recharge Basin
Lab Sample ID: 320-37224-1
Date Collected: 03/16/18 11:00
Matrix: Water
Date Received: 03/19/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			215106	03/27/18 20:41	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	215294	03/28/18 19:46	ABH	TAL SAC

Client Sample ID: Ash Pit
Lab Sample ID: 320-37224-2
Date Collected: 03/16/18 09:45
Matrix: Solid
Date Received: 03/19/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	214408	03/22/18 21:37	TCS	TAL SAC

Client Sample ID: Ash Pit
Lab Sample ID: 320-37224-2
Date Collected: 03/16/18 09:45
Matrix: Solid
Date Received: 03/19/18 08:50
Percent Solids: 40.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			215068	03/27/18 15:42	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	215776	03/30/18 18:24	AAR	TAL SAC
Total/NA	Prep	SHAKE	RE		215908	04/02/18 14:27	JER	TAL SAC
Total/NA	Analysis	537 (modified)	RE	1	216698	04/06/18 14:31	CBW	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: PW Grosser Consulting
TestAmerica Job ID: 320-37224-1
Project/Site: Suffolk County Firematics Site

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
L-A-B	DoD ELAP		L2468	01-20-21
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-14-18 *
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-18
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-18
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18 *
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	M262FTS	#
Ash Pit RE	320-37224-2 RE	174	*
	MB 320-215908/1-A	64	
	LCS 320-215908/2-A	68	
Ash Pit MS RE	320-37224-2 MS RE	188	*
Ash Pit MSD RE	320-37224-2 MSD RE	223	*

	QC LIMITS
M262FTS = M2-6:2FTS	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	M262FTS #	PFOA #
Ash Pit	320-37224-2	29	40	54	40	45	55	158 *	48
	MB 320-215068/1-A	84	85	82	86	94	93	93	88
	LCS 320-215068/2-A	88	84	85	87	92	93	93	92
Ash Pit MS	320-37224-2 MS	47	53	64	55	59	65	162 *	62
Ash Pit MSD	320-37224-2 MSD	50	59	68	59	64	74	189 *	68

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3-PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHpA = 13C4-PFHpA	25-150
PFHxS = 18O2 PFHxS	25-150
M262FTS = M2-6:2FTS	25-150
PFOA = 13C4 PFOA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFOSA #	M282FTS #	PFDA #	d3NMFOS #	d5NEFOS #	PFUnA #
Ash Pit	320-37224-2	56	52	53	266 *	61	94	96	69
	MB 320-215068/1-A	85	89	74	91	90	77	77	94
	LCS 320-215068/2-A	90	91	79	96	93	85	87	98
Ash Pit MS	320-37224-2 MS	69	66	59	218 *	77	103	112	82
Ash Pit MSD	320-37224-2 MSD	74	75	63	251 *	88	110	120	89

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFNA = 13C5 PFNA	25-150
PFOSA = 13C8 FOSA	25-150
M282FTS = M2-8:2FTS	25-150
PFDA = 13C2 PFDA	25-150
d3NMFOS = d3-NMeFOSAA	25-150
d5NEFOS = d5-NEtFOSAA	25-150
PFUnA = 13C2 PFUnA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
Ash Pit	320-37224-2	67	65
	MB 320-215068/1-A	91	94
	LCS 320-215068/2-A	95	99
Ash Pit MS	320-37224-2 MS	77	74
Ash Pit MSD	320-37224-2 MSD	88	73

	QC LIMITS
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2-PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	M262FTS #	PFOA #
Recharge Basin	320-37224-1	70	90	85	93	95	98	171 *	101
	MB 320-215106/1-A	107	106	105	100	102	113	112	100
	LCS 320-215106/2-A	99	97	100	93	94	103	115	96
	LCSD 320-215106/3-A	108	104	106	102	110	112	119	98

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3-PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHpA = 13C4-PFHpA	25-150
PFHxS = 18O2 PFHxS	25-150
M262FTS = M2-6:2FTS	25-150
PFOA = 13C4 PFOA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFNA #	PFOS #	PFOSA #	M282FTS #	PFDA #	d3NMFOS #	d5NEFOS #	PFUnA #
Recharge Basin	320-37224-1	101	93	96	146	96	92	76	89
	MB 320-215106/1-A	96	104	104	100	95	80	78	91
	LCS 320-215106/2-A	91	95	92	105	85	77	70	80
	LCSD 320-215106/3-A	98	103	104	104	97	85	83	84

	QC LIMITS
PFNA = 13C5 PFNA	25-150
PFOS = 13C4 PFOS	25-150
PFOSA = 13C8 FOSA	25-150
M282FTS = M2-8:2FTS	25-150
PFDA = 13C2 PFDA	25-150
d3NMFOS = d3-NMeFOSAA	25-150
d5NEFOS = d5-NEtFOSAA	25-150
PFUnA = 13C2 PFUnA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
Recharge Basin	320-37224-1	79	65
	MB 320-215106/1-A	86	87
	LCS 320-215106/2-A	82	79
	LCSD 320-215106/3-A	84	88

	QC LIMITS
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2-PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_034.d

Lab ID: LCS 320-215068/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	0.00200	0.00202	101	81-133	
Perfluoropentanoic acid (PFPeA)	0.00200	0.00184	92	79-120	
Perfluorohexanoic acid (PFHxA)	0.00200	0.00197	99	75-125	
Perfluoroheptanoic acid (PFHpA)	0.00200	0.00186	93	76-124	
Perfluorooctanoic acid (PFOA)	0.00200	0.00181	90	76-121	
Perfluorononanoic acid (PFNA)	0.00200	0.00197	99	74-126	
Perfluorodecanoic acid (PFDA)	0.00200	0.00202	101	74-124	
Perfluoroundecanoic acid (PFUnA)	0.00200	0.00179	90	74-114	
Perfluorododecanoic acid (PFDoA)	0.00200	0.00187	94	75-123	
Perfluorotridecanoic Acid (PFTriA)	0.00200	0.00200	100	43-116	
Perfluorotetradecanoic acid (PFTeA)	0.00200	0.00184	92	22-129	
Perfluorobutanesulfonic acid (PFBS)	0.00177	0.00173	98	73-142	
Perfluorohexanesulfonic acid (PFHxS)	0.00182	0.00162	89	75-121	
Perfluoroheptanesulfonic Acid (PFHpS)	0.00190	0.00181	95	78-146	
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.00194	104	69-131	
Perfluorodecanesulfonic acid (PFDS)	0.00193	0.00181	94	54-113	
Perfluorooctane Sulfonamide (FOSA)	0.00200	0.00194	97	62-135	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00200	0.00189 J	95	65-135	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00200	0.00198 J	99	65-135	
6:2FTS	0.00190	0.0146	769	65-135	*
8:2FTS	0.00192	0.00182 J	95	65-135	
13C4 PFBA	0.00500	0.00438	88	25-150	
13C5 PFPeA	0.00500	0.00422	84	25-150	
13C2 PFHxA	0.00500	0.00434	87	25-150	
13C4-PFHpA	0.00500	0.00462	92	25-150	
13C4 PFOA	0.00500	0.00461	92	25-150	
13C5 PFNA	0.00500	0.00453	91	25-150	
13C2 PFDA	0.00500	0.00464	93	25-150	
13C2 PFUnA	0.00500	0.00488	98	25-150	
13C2 PFDoA	0.00500	0.00474	95	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_034.d

Lab ID: LCS 320-215068/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
13C2-PFTeDA	0.00500	0.00493	99	25-150	
13C3-PFBS	0.00465	0.00398	85	25-150	
18O2 PFHxS	0.00473	0.00440	93	25-150	
13C4 PFOS	0.00478	0.00431	90	25-150	
13C8 FOSA	0.00500	0.00394	79	25-150	
d3-NMeFOSAA	0.00500	0.00427	85	25-150	
d5-NEtFOSAA	0.00500	0.00435	87	25-150	
M2-6:2FTS	0.00475	0.00443	93	25-150	
M2-8:2FTS	0.00479	0.00461	96	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.03.28LLDXD_009.d

Lab ID: LCS 320-215106/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	37.19	93	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	37.65	94	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	40.24	101	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	37.78	94	66-126	
Perfluorooctanoic acid (PFOA)	40.0	35.70	89	64-124	
Perfluorononanoic acid (PFNA)	40.0	37.26	93	68-128	
Perfluorodecanoic acid (PFDA)	40.0	37.88	95	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	33.34	83	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	35.70	89	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	35.23	88	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.34	93	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.21	91	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.68	90	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.95	97	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	32.86	89	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	33.01	86	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	36.09	90	70-130	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.0	39.47	99	67-127	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	40.0	37.88	95	65-125	
6:2FTS	37.9	41.48	109	66-126	
8:2FTS	38.3	36.92	96	67-127	
13C4 PFBA	100	99.49	99	25-150	
13C5 PFPeA	100	96.73	97	25-150	
13C2 PFHxA	100	93.41	93	25-150	
13C4-PFHpA	100	94.36	94	25-150	
13C4 PFOA	100	95.94	96	25-150	
13C5 PFNA	100	90.69	91	25-150	
13C2 PFDA	100	85.02	85	25-150	
13C2 PFUnA	100	80.23	80	25-150	
13C2 PFDoA	100	81.51	82	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.03.28LLDXD_009.d

Lab ID: LCS 320-215106/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2-PFTeDA	100	79.27	79	25-150	
13C3-PFBS	93.0	92.54	100	25-150	
18O2 PFHxS	94.6	97.06	103	25-150	
13C4 PFOS	95.6	90.91	95	25-150	
13C8 FOSA	100	92.00	92	25-150	
d3-NMeFOSAA	100	77.43	77	25-150	
d5-NEtFOSAA	100	70.05	70	25-150	
M2-6:2FTS	95.0	109.0	115	25-150	
M2-8:2FTS	95.8	100.7	105	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.04.06LLA_008.d

Lab ID: LCS 320-215908/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
6:2FTS	0.00190	0.00175 J	93	65-135	
M2-6:2FTS	0.00475	0.00324	68	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.03.28LLDXD_010.d

Lab ID: LCSD 320-215106/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	38.08	95	2	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	38.41	96	2	30	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	38.73	97	4	30	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	36.50	91	3	30	66-126	
Perfluorooctanoic acid (PFOA)	40.0	38.37	96	7	30	64-124	
Perfluorononanoic acid (PFNA)	40.0	38.42	96	3	30	68-128	
Perfluorodecanoic acid (PFDA)	40.0	37.71	94	0	30	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	35.06	88	5	30	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	37.46	94	5	30	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	35.82	90	2	30	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	36.06	90	3	30	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	33.36	94	4	30	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.35	89	1	30	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.36	98	1	30	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.27	95	7	30	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	36.05	93	9	30	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	36.61	92	1	30	70-130	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.0	40.24	101	2	30	67-127	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	40.0	37.04	93	2	30	65-125	
6:2FTS	37.9	33.87	89	20	30	66-126	
8:2FTS	38.3	37.59	98	2	30	67-127	
13C4 PFBA	100	108.1	108			25-150	
13C5 PFPeA	100	104.4	104			25-150	
13C2 PFHxA	100	102.2	102			25-150	
13C4-PFHpA	100	109.9	110			25-150	
13C4 PFOA	100	97.91	98			25-150	
13C5 PFNA	100	98.37	98			25-150	
13C2 PFDA	100	97.07	97			25-150	
13C2 PFUnA	100	84.45	84			25-150	
13C2 PFDoA	100	84.45	84			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.03.28LLDXD_010.d

Lab ID: LCSD 320-215106/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C2-PFTeDA	100	87.58	88			25-150	
13C3-PFBS	93.0	98.54	106			25-150	
18O2 PFHxS	94.6	106.2	112			25-150	
13C4 PFOS	95.6	98.78	103			25-150	
13C8 FOSA	100	104.0	104			25-150	
d3-NMeFOSAA	100	84.80	85			25-150	
d5-NEtFOSAA	100	82.70	83			25-150	
M2-6:2FTS	95.0	113.3	119			25-150	
M2-8:2FTS	95.8	99.71	104			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_041.d

Lab ID: 320-37224-2 MS Client ID: Ash Pit MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	0.00490	0.00077	0.00694	126	81-133	
Perfluoropentanoic acid (PFPeA)	0.00490	0.00019 U	0.00497	101	79-120	
Perfluorohexanoic acid (PFHxA)	0.00490	0.0041	0.00706	60	75-125	F1
Perfluoroheptanoic acid (PFHpA)	0.00490	0.0041	0.00706	60	76-124	F1
Perfluorooctanoic acid (PFOA)	0.00490	0.024	0.0228	-29	76-121	4
Perfluorononanoic acid (PFNA)	0.00490	0.0096	0.0123	55	74-126	F1
Perfluorodecanoic acid (PFDA)	0.00490	0.016	0.0241	168	74-124	F1
Perfluoroundecanoic acid (PFUnA)	0.00490	0.0039	0.00932	110	74-114	
Perfluorododecanoic acid (PFDoA)	0.00490	0.0043	0.00996	116	75-123	
Perfluorotridecanoic Acid (PFTriA)	0.00490	0.0012	0.00668	111	43-116	
Perfluorotetradecanoic acid (PFTeA)	0.00490	0.0015	0.00658	103	22-129	
Perfluorobutanesulfonic acid (PFBS)	0.00433	0.0011	0.00422	73	73-142	
Perfluorohexanesulfonic acid (PFHxS)	0.00446	0.0051	0.00963	101	75-121	
Perfluoroheptanesulfonic Acid (PFHpS)	0.00467	0.00036 J	0.00469	93	78-146	
Perfluorooctanesulfonic acid (PFOS)	0.00455	0.032	0.0235	-195	69-131	4
Perfluorodecanesulfonic acid (PFDS)	0.00473	0.000094 U	0.00456	97	54-113	
Perfluorooctane Sulfonamide (FOSA)	0.00490	0.00049	0.00536	99	62-135	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00490	0.0065	0.0111	93	65-135	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00490	0.00089 U	0.00537	109	65-135	
6:2FTS	0.00465	0.022	0.0118	-218	65-135	4
8:2FTS	0.00470	0.0011 J	0.00494	83	65-135	
13C4 PFBA	0.0123	0.0035	0.00576	47	25-150	
13C5 PFPeA	0.0123	0.0048	0.00655	53	25-150	
13C2 PFHxA	0.0123	0.0048	0.00670	55	25-150	
13C4-PFHpA	0.0123	0.0055	0.00724	59	25-150	
13C4 PFOA	0.0123	0.0058	0.00760	62	25-150	
13C5 PFNA	0.0123	0.0063	0.00811	66	25-150	
13C2 PFDA	0.0123	0.0074	0.00942	77	25-150	
13C2 PFUnA	0.0123	0.0083	0.0101	82	25-150	
13C2 PFDoA	0.0123	0.0081	0.00947	77	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_041.d

Lab ID: 320-37224-2 MS Client ID: Ash Pit MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
13C2-PFTeDA	0.0123	0.0079	0.00906	74	25-150	
13C3-PFBS	0.0114	0.0060	0.00732	64	25-150	
18O2 PFHxS	0.0116	0.0062	0.00756	65	25-150	
13C4 PFOS	0.0117	0.0064	0.00804	69	25-150	
13C8 FOSA	0.0123	0.0063	0.00723	59	25-150	
d3-NMeFOSAA	0.0123	0.011	0.0127	103	25-150	
d5-NEtFOSAA	0.0123	0.012	0.0137	112	25-150	
M2-6:2FTS	0.0116	0.018	0.0189	162	25-150	*
M2-8:2FTS	0.0117	0.031	0.0256	218	25-150	*

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.04.06LLA_010.d

Lab ID: 320-37224-2 MS RE Client ID: Ash Pit MS RE

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
6:2FTS	0.00469	0.00045 J	0.00485 J	94	65-135	
M2-6:2FTS	0.0117	0.020	0.0221	188	25-150	*

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_042.d

Lab ID: 320-37224-2 MSD Client ID: Ash Pit MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	0.00486	0.00681	124	2	30	81-133	
Perfluoropentanoic acid (PFPeA)	0.00486	0.00464	95	7	30	79-120	
Perfluorohexanoic acid (PFHxA)	0.00486	0.00616	42	14	30	75-125	F1
Perfluoroheptanoic acid (PFHpA)	0.00486	0.00549	28	25	30	76-124	F1
Perfluorooctanoic acid (PFOA)	0.00486	0.0113	-265	67	30	76-121	4 F2
Perfluorononanoic acid (PFNA)	0.00486	0.00777	-38	45	30	74-126	F1 F2
Perfluorodecanoic acid (PFDA)	0.00486	0.0135	-49	56	30	74-124	F1 F2
Perfluoroundecanoic acid (PFUnA)	0.00486	0.00803	85	15	30	74-114	
Perfluorododecanoic acid (PFDoA)	0.00486	0.00830	83	18	30	75-123	
Perfluorotridecanoic Acid (PFTriA)	0.00486	0.00551	88	19	30	43-116	
Perfluorotetradecanoic acid (PFTeA)	0.00486	0.00622	96	6	30	22-129	
Perfluorobutanesulfonic acid (PFBS)	0.00430	0.00429	75	2	30	73-142	
Perfluorohexanesulfonic acid (PFHxS)	0.00443	0.00522	2	59	30	75-121	F1 F2
Perfluoroheptanesulfonic Acid (PFHpS)	0.00463	0.00427	84	10	30	78-146	
Perfluorooctanesulfonic acid (PFOS)	0.00451	0.0186	-304	23	30	69-131	4
Perfluorodecanesulfonic acid (PFDS)	0.00469	0.00440	94	4	30	54-113	
Perfluorooctane Sulfonamide (FOSA)	0.00486	0.00525	98	2	30	62-135	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00486	0.0105	82	6	30	65-135	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00486	0.00485 J	100	10	30	65-135	
6:2FTS	0.00461	0.0330	240	95	30	65-135	4 F2
8:2FTS	0.00466	0.00518	88	5	30	65-135	
13C4 PFBA	0.0122	0.00603	50			25-150	
13C5 PFPeA	0.0122	0.00715	59			25-150	
13C2 PFHxA	0.0122	0.00713	59			25-150	
13C4-PFHpA	0.0122	0.00774	64			25-150	
13C4 PFOA	0.0122	0.00830	68			25-150	
13C5 PFNA	0.0122	0.00908	75			25-150	
13C2 PFDA	0.0122	0.0107	88			25-150	
13C2 PFUnA	0.0122	0.0109	89			25-150	
13C2 PFDoA	0.0122	0.0107	88			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.03.30LLBXZAG_042.d

Lab ID: 320-37224-2 MSD Client ID: Ash Pit MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C2-PFTeDA	0.0122	0.00893	73			25-150	
13C3-PFBS	0.0113	0.00765	68			25-150	
18O2 PFHxS	0.0115	0.00850	74			25-150	
13C4 PFOS	0.0116	0.00858	74			25-150	
13C8 FOSA	0.0122	0.00766	63			25-150	
d3-NMeFOSAA	0.0122	0.0134	110			25-150	
d5-NEtFOSAA	0.0122	0.0146	120			25-150	
M2-6:2FTS	0.0116	0.0218	189			25-150	*
M2-8:2FTS	0.0117	0.0292	251			25-150	*

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 2018.04.06LLA_011.d

Lab ID: 320-37224-2 MSD RE Client ID: Ash Pit MSD RE

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
6:2FTS	0.00458	0.00466 J	92	4	30	65-135	
M2-6:2FTS	0.0115	0.0256	223			25-150	*

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab File ID: 2018.03.30LLBXZAG_033.d Lab Sample ID: MB 320-215068/1-A

Matrix: Solid Date Extracted: 03/27/2018 15:42

Instrument ID: A8_N Date Analyzed: 03/30/2018 18:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-215068/2-A	2018.03.30LLBXZAG_034.d	03/30/2018 18:16
Ash Pit	320-37224-2	2018.03.30LLBXZAG_040.d	03/30/2018 18:24
Ash Pit MS	320-37224-2 MS	2018.03.30LLBXZAG_041.d	03/30/2018 18:32
Ash Pit MSD	320-37224-2 MSD	2018.03.30LLBXZAG_042.d	03/30/2018 18:40

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab File ID: 2018.03.28LLDXD_008.d Lab Sample ID: MB 320-215106/1-A

Matrix: Water Date Extracted: 03/27/2018 20:41

Instrument ID: A8_N Date Analyzed: 03/28/2018 18:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-215106/2-A	2018.03.28LLDXD_009.d	03/28/2018 19:07
	LCSD 320-215106/3-A	2018.03.28LLDXD_010.d	03/28/2018 19:15
Recharge Basin	320-37224-1	2018.03.28LLDXD_014.d	03/28/2018 19:46

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab File ID: 2018.04.06LLA_007.d Lab Sample ID: MB 320-215908/1-A

Matrix: Solid Date Extracted: 04/02/2018 14:27

Instrument ID: A8_N Date Analyzed: 04/06/2018 14:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-215908/2-A	2018.04.06LLA_008.d	04/06/2018 14:23
Ash Pit RE	320-37224-2 RE	2018.04.06LLA_009.d	04/06/2018 14:31
Ash Pit MS RE	320-37224-2 MS RE	2018.04.06LLA_010.d	04/06/2018 14:39
Ash Pit MSD RE	320-37224-2 MSD RE	2018.04.06LLA_011.d	04/06/2018 14:47

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Sample No.: IC 320-214175/5 Date Analyzed: 03/21/2018 18:47

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.03.21LLICALAX_ Heated Purge: (Y/N) N

Calibration ID: 38241

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5311138	2.70				
UPPER LIMIT		7966707	2.90				
LOWER LIMIT		2655569	2.50				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-214175/9		5094636	2.69				
ICV 320-214175/10		5042269	2.70				
CCV 320-215294/3 CCVIS		4737298	2.73				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Sample No.: CCV 320-215294/3 Date Analyzed: 03/28/2018 18:44

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.03.28LLDXD_006 Heated Purge: (Y/N) N

Calibration ID: 38241

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4737298	2.73				
UPPER LIMIT		7105947	2.93				
LOWER LIMIT		2368649	2.53				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-215294/1		4695695	2.74				
CCVL 320-215294/2		4788672	2.74				
MB 320-215106/1-A		5035786	2.73				
LCS 320-215106/2-A		5120545	2.73				
LCSD 320-215106/3-A		4813679	2.73				
320-37224-1	Recharge Basin	5742388	2.73				
CCV 320-215294/14		4582531	2.73				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Sample No.: IC 320-215537/5 Date Analyzed: 03/29/2018 17:50

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.03.29A_ICALB_0 Heated Purge: (Y/N) N

Calibration ID: 38353

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4517618	2.69				
UPPER LIMIT		6776427	2.89				
LOWER LIMIT		2258809	2.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-215537/9		4317989	2.69				
ICV 320-215537/10		4235745	2.68				
CCV 320-215658/3 CCVIS		4648235	2.68				
CCV 320-216698/3 CCVIS		4921391	2.66				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Sample No.: CCV 320-215658/3 Date Analyzed: 03/30/2018 12:00

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.03.30LLBXZA_03 Heated Purge: (Y/N) N

Calibration ID: 38353

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4648235	2.68				
UPPER LIMIT		6972353	2.88				
LOWER LIMIT		2324118	2.48				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-215658/1		4485995	2.68				
CCVL 320-215658/2		4976247	2.67				
CCV 320-215776/1		4758338	2.69				
MB 320-215068/1-A		5316437	2.68				
LCS 320-215068/2-A		4971430	2.69				
320-37224-2	Ash Pit	6767459	2.68				
320-37224-2 MS	Ash Pit MS	5867214	2.69				
320-37224-2 MSD	Ash Pit MSD	5576929	2.68				
CCV 320-215776/7		4341323	2.69				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Sample No.: CCV 320-216698/3 Date Analyzed: 04/06/2018 14:00

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.04.06LLA_005.d Heated Purge: (Y/N) N

Calibration ID: 38353

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4921391	2.66				
UPPER LIMIT		7382087	2.86				
LOWER LIMIT		2460696	2.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-216698/1		4650717	2.65				
CCVL 320-216698/2		4817174	2.65				
MB 320-215908/1-A		5876253	2.64				
LCS 320-215908/2-A		4993216	2.64				
320-37224-2 RE	Ash Pit RE	5270164	2.64				
320-37224-2 MS RE	Ash Pit MS RE	5291786	2.64				
320-37224-2 MSD RE	Ash Pit MSD RE	5257519	2.64				
CCV 320-216698/11		4432536	2.65				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 320-37224-1

Matrix: Water | Lab File ID: 2018.03.28LLDXD_014.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 11:00

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 249.1(mL) | Date Analyzed: 03/28/2018 19:46

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.97	B	2.01	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	5.58		2.01	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	6.37		2.01	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.77		2.01	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	4.12		2.01	0.85
375-95-1	Perfluorononanoic acid (PFNA)	4.56		2.01	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	1.22	J	2.01	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.76	J	2.01	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.01	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	1.30	U	2.01	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.01	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.73	J	2.01	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.14	B	2.01	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.21	J	2.01	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13.3		2.01	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.01	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.35	U	2.01	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.11	U	20.1	3.11
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.91	U	20.1	1.91
27619-97-2	6:2FTS	9.74	J	20.1	2.01
39108-34-4	8:2FTS	3.00	J	20.1	2.01

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 320-37224-1

Matrix: Water | Lab File ID: 2018.03.28LLDXD_014.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 11:00

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 249.1(mL) | Date Analyzed: 03/28/2018 19:46

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	70		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	93		25-150
STL01892	13C4-PFHpA	95		25-150
STL00990	13C4 PFOA	101		25-150
STL00995	13C5 PFNA	101		25-150
STL00996	13C2 PFDA	96		25-150
STL00997	13C2 PFUnA	89		25-150
STL00998	13C2 PFDoA	79		25-150
STL02116	13C2-PFTeDA	65		25-150
STL02337	13C3-PFBS	85		25-150
STL00994	18O2 PFHxS	98		25-150
STL00991	13C4 PFOS	93		25-150
STL01056	13C8 FOSA	96		25-150
STL02118	d3-NMeFOSAA	92		25-150
STL02117	d5-NEtFOSAA	76		25-150
STL02279	M2-6:2FTS	171	*	25-150
STL02280	M2-8:2FTS	146		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_014.d
Lims ID: 320-37224-A-1-A
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 28-Mar-2018 19:46:33 ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-a-1-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:49:47 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:46:06

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.440	1.441	-0.001	0.528	5098469	1.75		70.1	59745	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.446	1.446	0.0	1.004	142089	0.0739			5.4	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.718	1.717	0.001	1.000	272427	0.1390			16.3	
D 3 13C5-PFPeA										
267.90 > 223.00	1.718	1.718	0.0	0.630	4344750	2.25		90.1	32205	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.753	1.753	0.0	1.000	52641	0.0182			8.0	M
298.90 > 99.00	1.753	1.753	0.0	1.000	23738		2.22(1.25-3.74)		15.7	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.754	-0.001	0.643	86740	1.97		84.7	145	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.019	2.008	0.011	1.000	320601	0.1588			74.1	
313.00 > 119.00	2.019	2.008	0.011	1.000	31049		10.33(5.03-15.10)		115	
D 7 13C2 PFHxA										
315.00 > 270.00	2.019	2.019	0.0	0.740	4937202	2.31		92.6	109409	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.354	2.353	0.001	1.000	195244	0.0939			61.8	
363.00 > 169.00	2.354	2.353	0.001	1.000	91884		2.12(1.13-3.40)		187	
D 9 13C4-PFHpA										
367.00 > 322.00	2.354	2.354	0.0	0.863	5023797	2.39		95.5	112933	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.367	2.367	0.0	1.000	292072	0.1031			212	
399.00 > 99.00	2.367	2.367	0.0	1.000	95787		3.05(1.50-4.49)		160	
D 11 18O2 PFHxS										
403.00 > 84.00	2.367	2.368	-0.001	0.868	6018181	2.32		98.0	110351	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.696	2.695	0.001	1.000	315980	0.2427			3276	
D 12 M2-6:2FTS										
429.00 > 81.00	2.696	2.705	-0.009	0.988	1773468	4.06		171	7718	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.728	2.726	0.002	1.000	11569	0.005115			35.2	
449.00 > 99.00	2.728	2.726	0.002	1.000	2335		4.95(1.94-5.82)		14.2	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.728	2.726	0.002	1.003	252977	0.1027			81.0	
413.00 > 169.00	2.728	2.726	0.002	1.003	134467		1.88(0.84-2.52)		438	
* 62 13C2-PFOA										
415.00 > 370.00	2.728	2.726	0.002		5742388	2.50			98212	
D 14 13C4 PFOA										
417.00 > 372.00	2.720	2.728	-0.008	0.997	5449547	2.53		101	100279	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.104	3.095	0.009	1.003	650323	0.3307			959	
499.00 > 99.00	3.096	3.095	0.001	1.000	140314		4.63(2.31-6.93)		738	
20 Perfluorononanoic acid										
463.00 > 419.00	3.104	3.103	0.001	1.000	216738	0.1135			195	
463.00 > 169.00	3.104	3.103	0.001	1.000	57186		3.79(1.90-5.69)		684	
D 19 13C5 PFNA										
468.00 > 423.00	3.104	3.112	-0.008	1.138	4786836	2.52		101	88009	
D 18 13C4 PFOS										
503.00 > 80.00	3.096	3.112	-0.016	1.135	4218825	2.23		93.4	19157	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.417	3.417	0.0	1.000	12520	0.005174			103	
D 21 13C8 FOSA										
506.00 > 78.00	3.417	3.418	-0.001	1.253	6136158	2.41		96.3	80105	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.453	3.454	-0.001	1.000	81932	0.0747			1428	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.463	3.463	-0.001	1.000	48391	0.0305			118	
513.00 > 169.00	3.463	3.463	-0.001	1.000	8010		6.04(2.36-7.09)		155	
D 26 M2-8:2FTS										
529.00 > 81.00	3.453	3.464	-0.011	1.266	2059400	3.50		146	12911	
D 23 13C2 PFDA										
515.00 > 470.00	3.463	3.473	-0.011	1.269	4014016	2.41		96.5	98115	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.622	3.633	-0.011	1.328	2008171	2.29		91.7	40413	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.795	3.802	-0.007	1.000	49729	0.0437			173	
563.00 > 169.00	3.795	3.802	-0.007	1.000	10389		4.79(2.12-6.36)		186	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.785	3.804	-0.019	1.388	1884001	1.89		75.5	7016	
D 30 13C2 PFUnA										
565.00 > 520.00	3.795	3.804	-0.009	1.391	3297133	2.21		88.6	95956	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										
613.00 > 569.00	4.084	4.092	-0.008	0.997	9020	0.006499			5.7	
613.00 > 169.00	4.084	4.092	-0.008	0.997	2305		3.91(2.13-6.40)		50.4	
D 36 13C2 PFDoA										
615.00 > 570.00	4.095	4.105	-0.010	1.501	3316085	1.96		78.5	37094	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.593	4.613	-0.020	1.684	3357562	1.63		65.1	23485	

QC Flag Legend

Review Flags

M - Manually Integrated

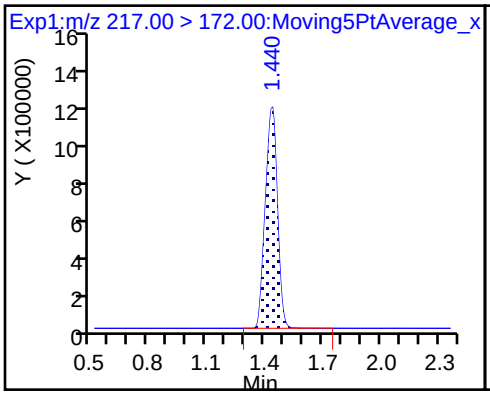
Report Date: 29-Mar-2018 07:50:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

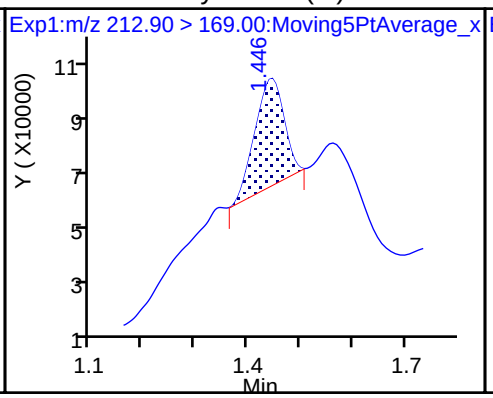
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_014.d

Injection Date:	28-Mar-2018 19:46:33	Instrument ID:	A8_N		
Lims ID:	320-37224-A-1-A	Lab Sample ID:	320-37224-1		
Client ID:	Recharge Basin				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		

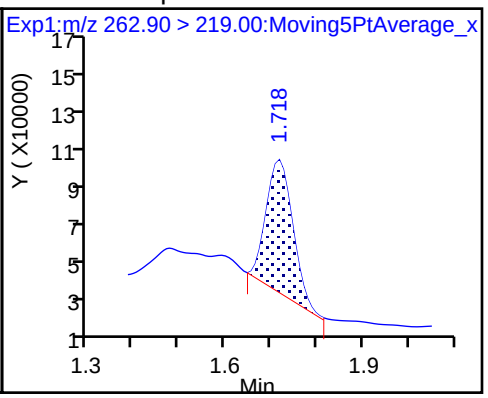
D 1 13C4 PFBA



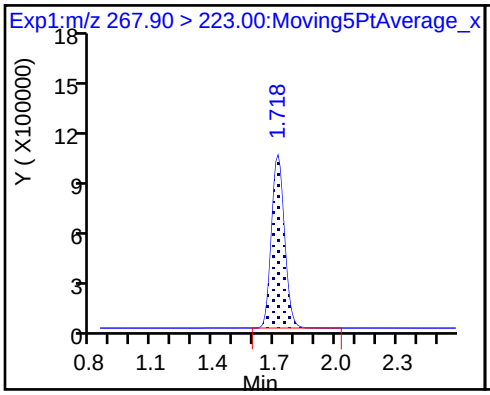
2 Perfluorobutyric acid (M)



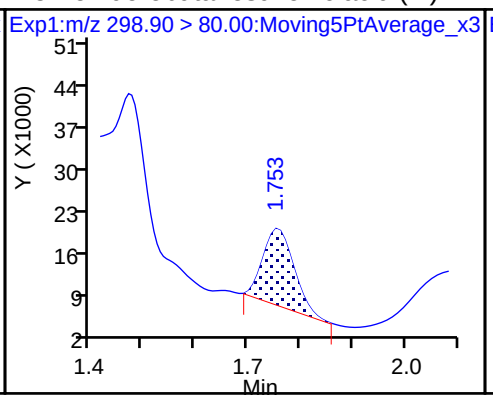
4 Perfluoropentanoic acid



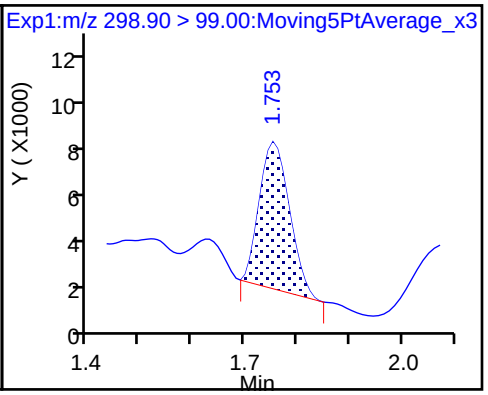
D 3 13C5-PFPeA



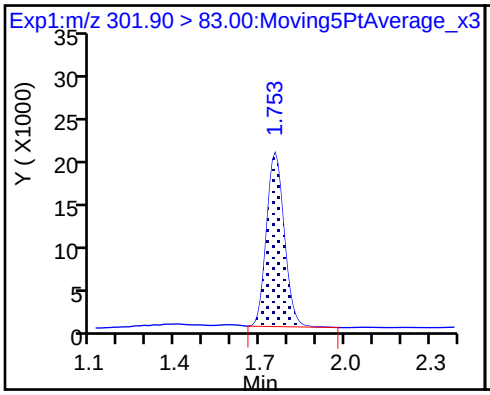
5 Perfluorobutanesulfonic acid (M)



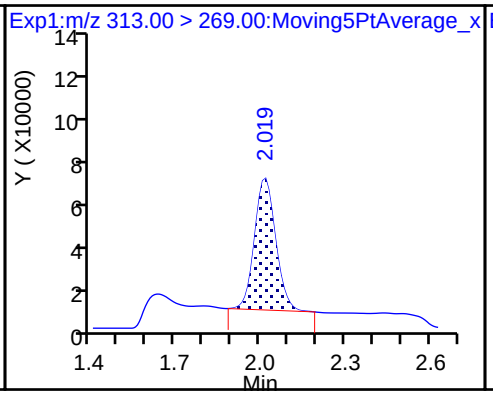
5 Perfluorobutanesulfonic acid



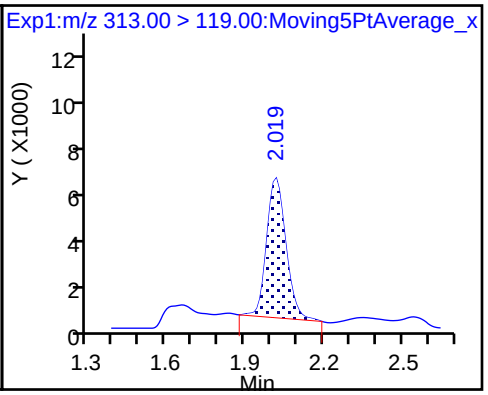
D 47 13C3-PFBS



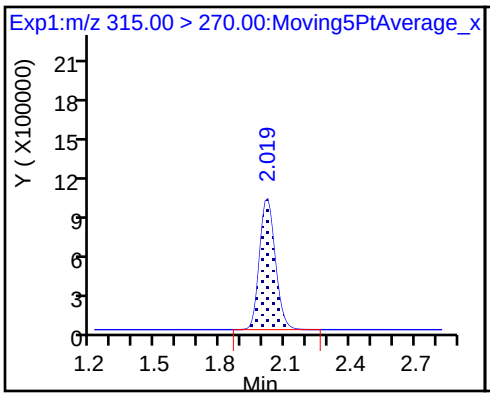
6 Perfluorohexanoic acid



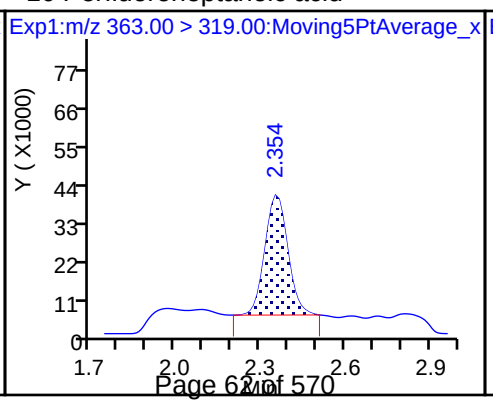
6 Perfluorohexanoic acid



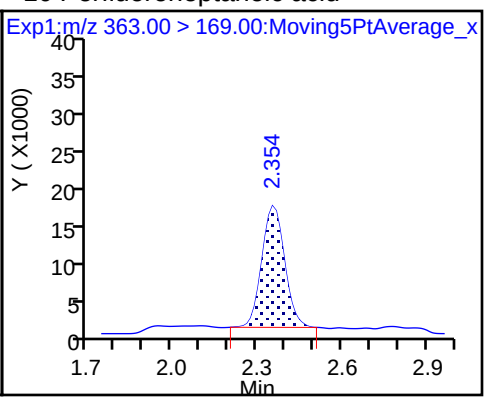
D 7 13C2 PFHxA



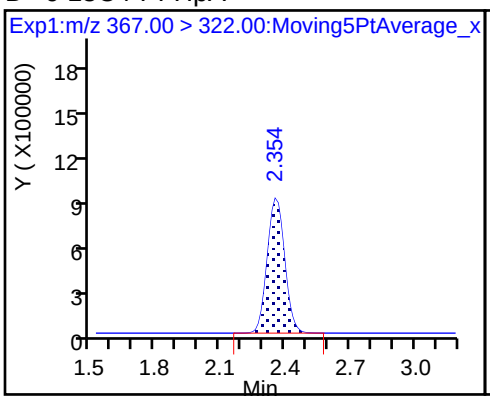
10 Perfluoroheptanoic acid



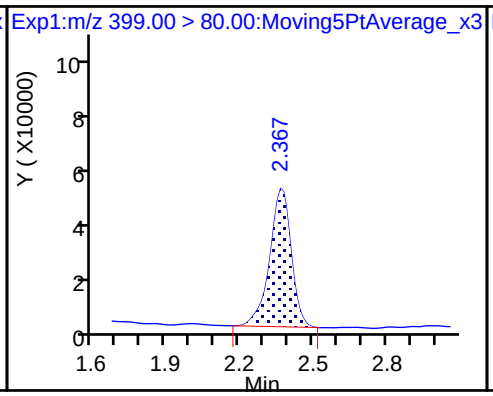
10 Perfluoroheptanoic acid



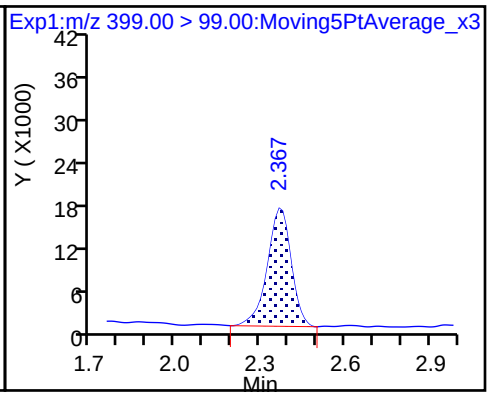
D 9 13C4-PFHpA



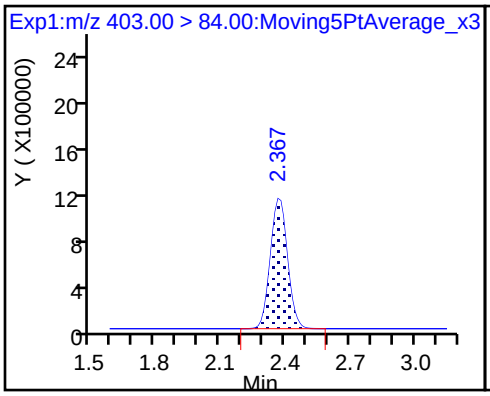
8 Perfluorohexanesulfonic acid



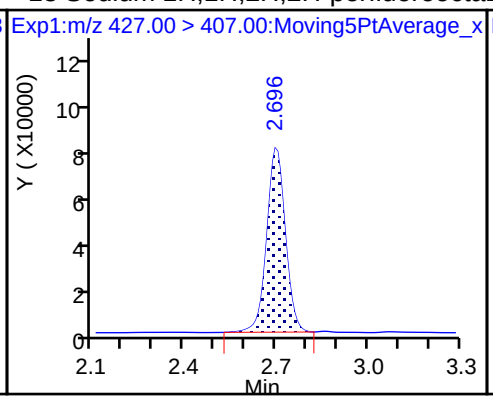
8 Perfluorohexanesulfonic acid



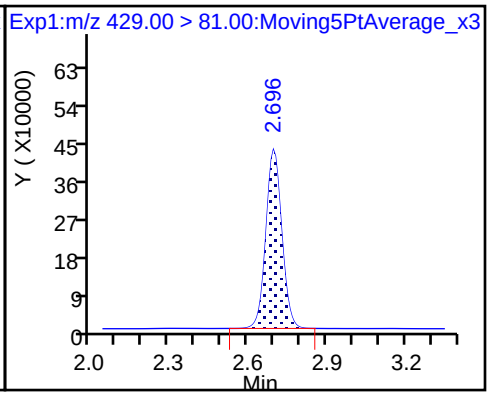
D 11 18O2 PFHxS



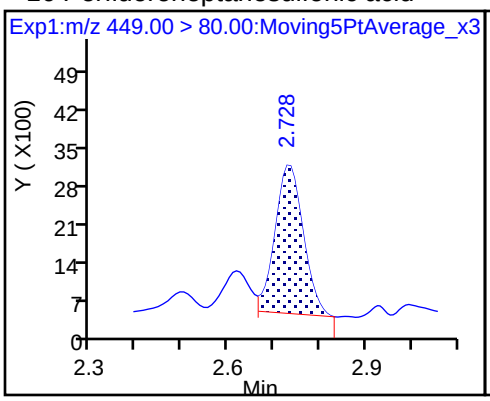
13 Sodium 1H,1H,2H,2H-perfluorooctane



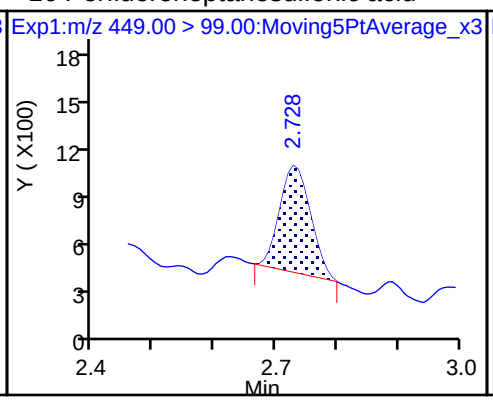
D 12 M2-6:2FTS



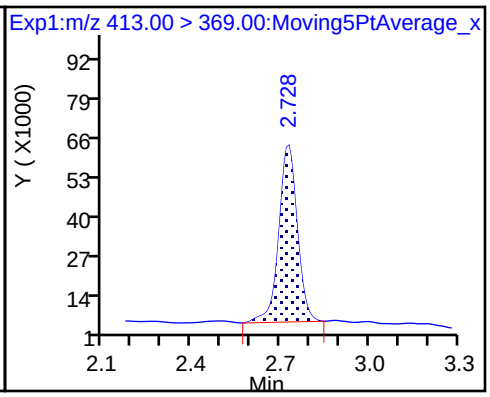
16 Perfluoroheptanesulfonic acid



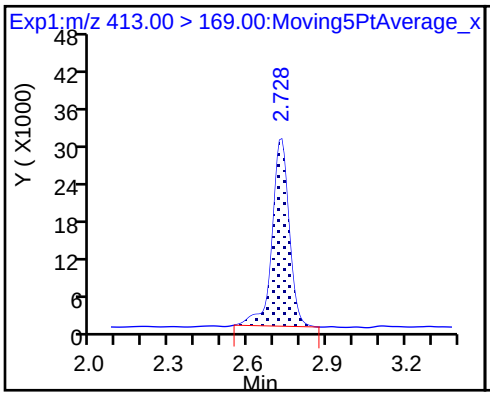
16 Perfluoroheptanesulfonic acid



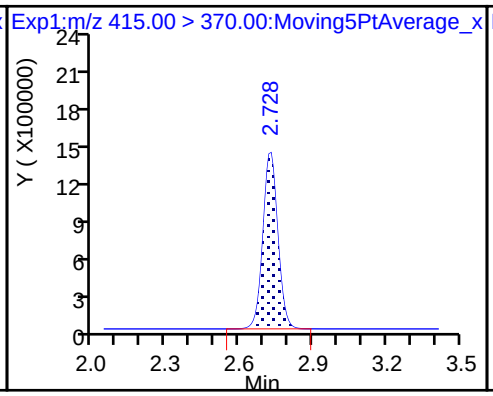
15 Perfluorooctanoic acid



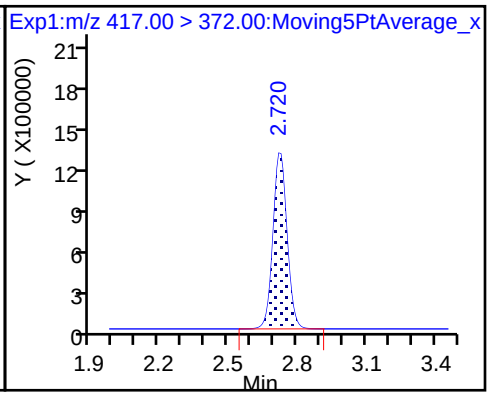
15 Perfluorooctanoic acid



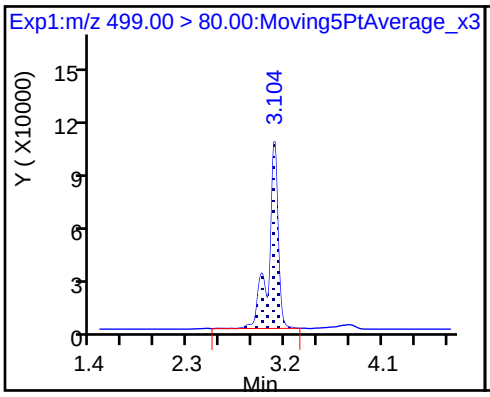
* 62 13C2-PFOA



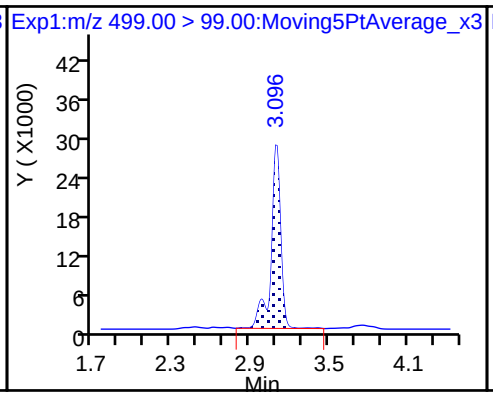
D 14 13C4 PFOA



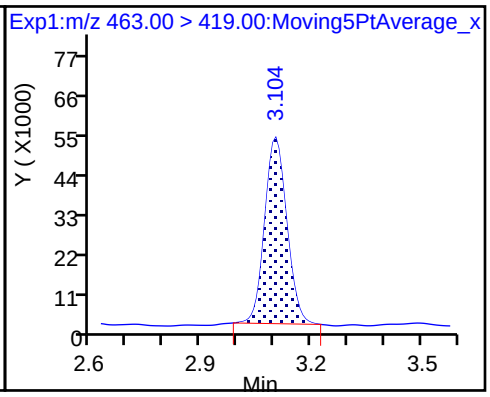
17 Perfluorooctane sulfonic acid



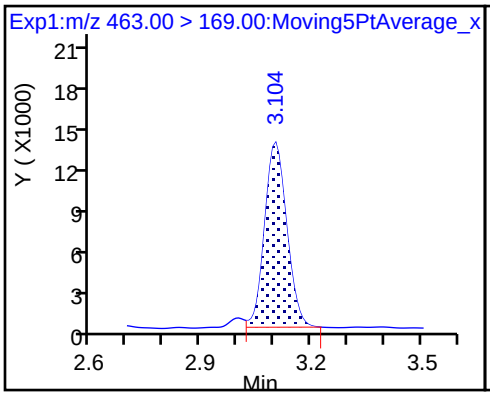
17 Perfluorooctane sulfonic acid



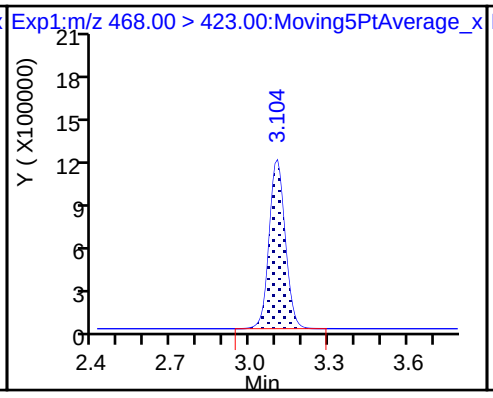
20 Perfluorononanoic acid



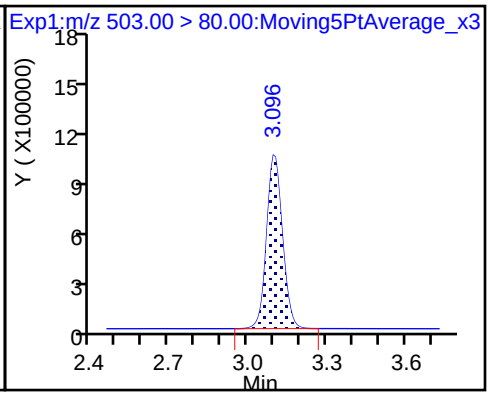
20 Perfluorononanoic acid



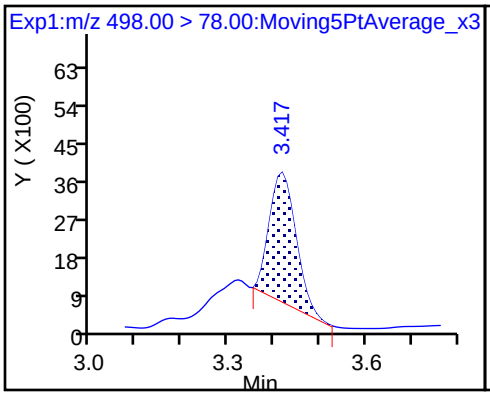
D 19 13C5 PFNA



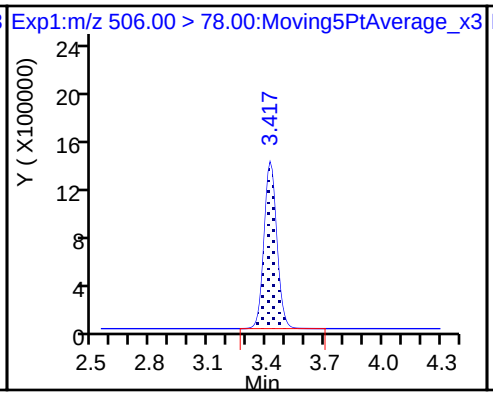
D 18 13C4 PFOS



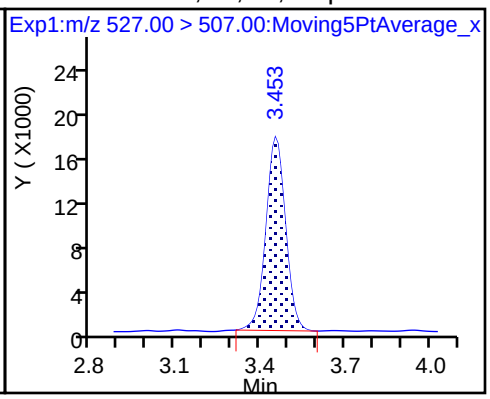
22 Perfluorooctane Sulfonamide



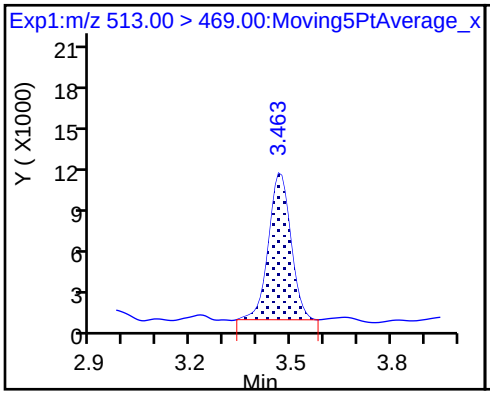
D 21 13C8 FOSA



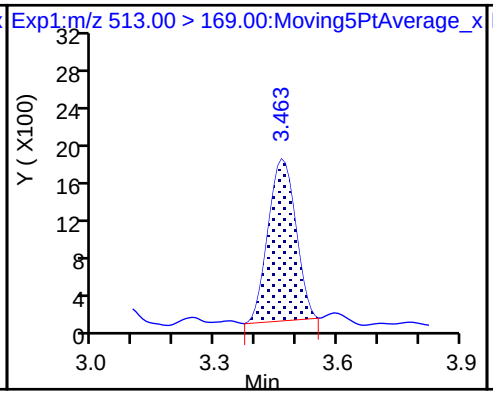
25 Sodium 1H,1H,2H,2H-perfluorodecane



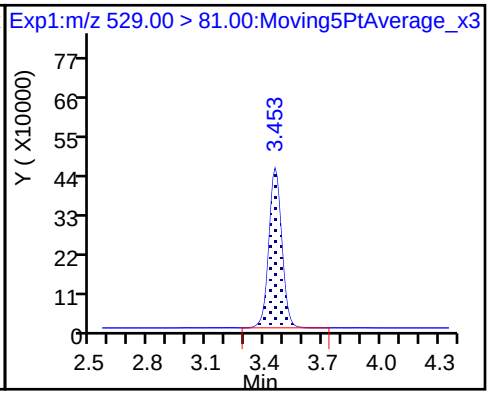
24 Perfluorodecanoic acid



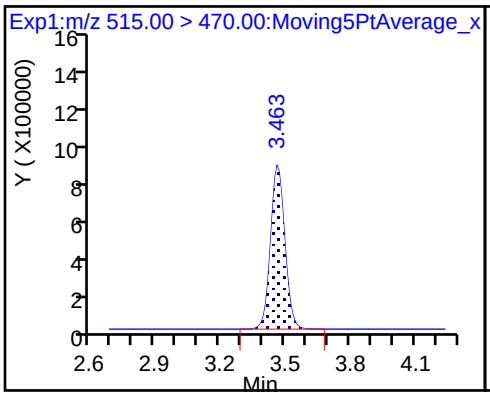
24 Perfluorodecanoic acid



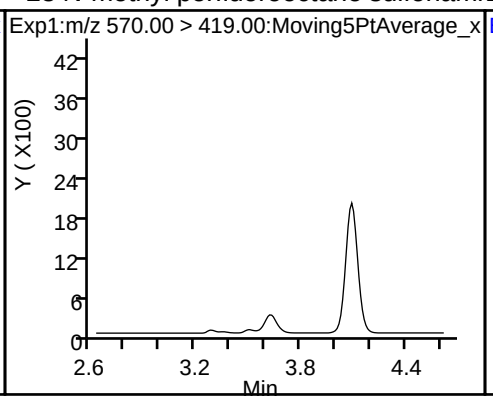
D 26 M2-8:2FTS



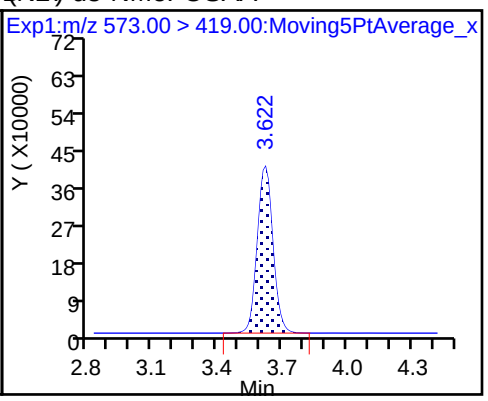
D 23 13C2 PFDA



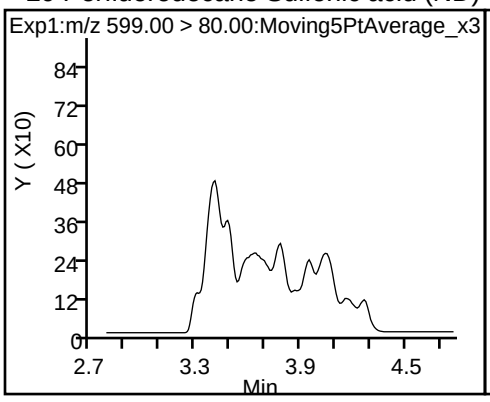
28 N-methyl perfluorooctane sulfonamid (ND)



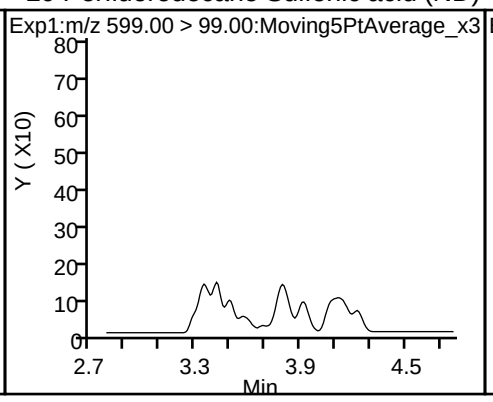
D 27 d3-NMeFOSAA



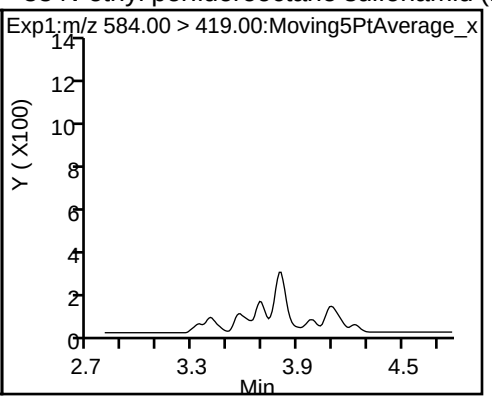
29 Perfluorodecane Sulfonic acid (ND)



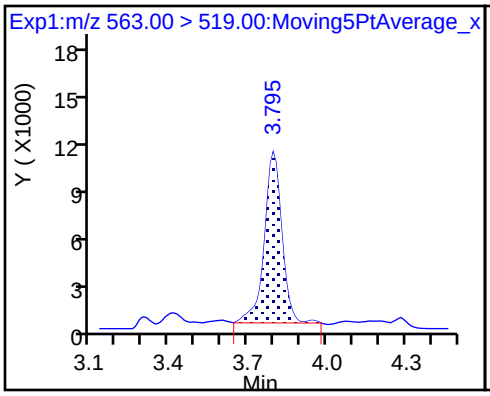
29 Perfluorodecane Sulfonic acid (ND)



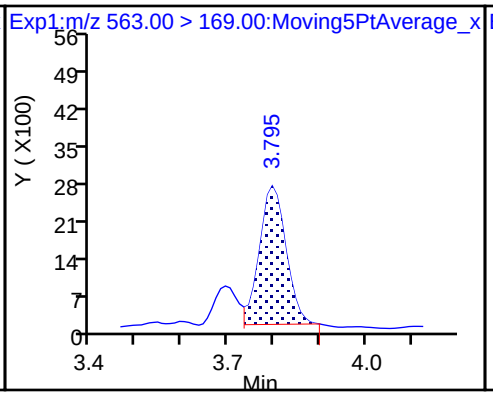
33 N-ethyl perfluorooctane sulfonamid (ND)



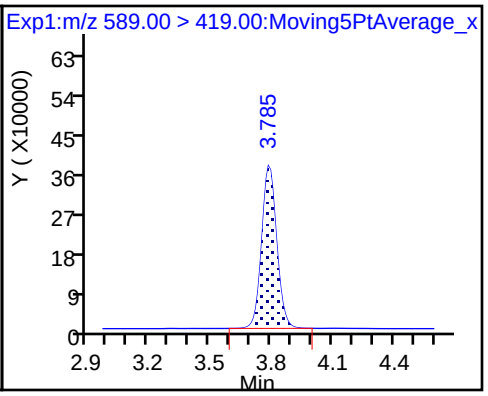
31 Perfluoroundecanoic acid



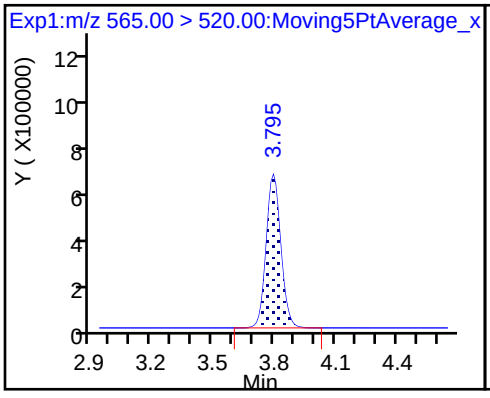
31 Perfluoroundecanoic acid



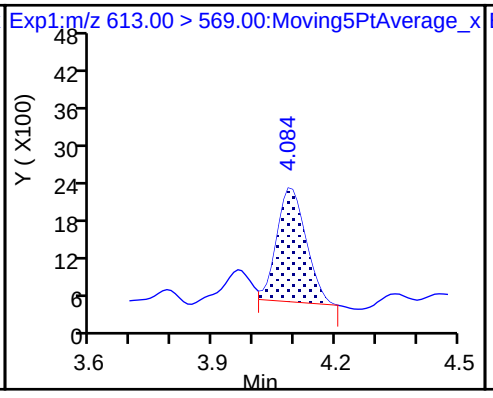
D 32 d5-NEtFOSAA



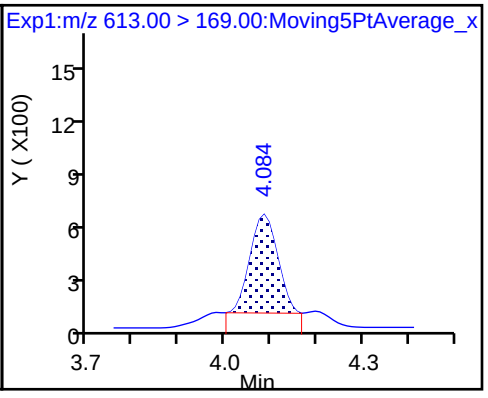
D 30 13C2 PFUnA



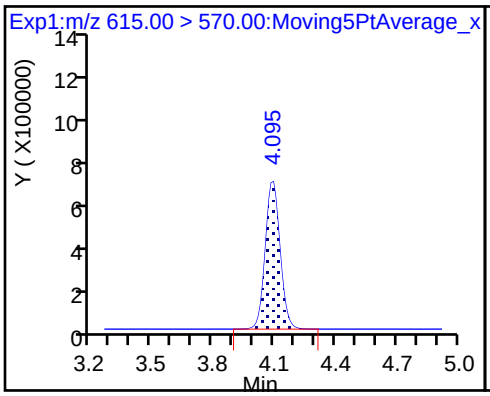
37 Perfluorododecanoic acid



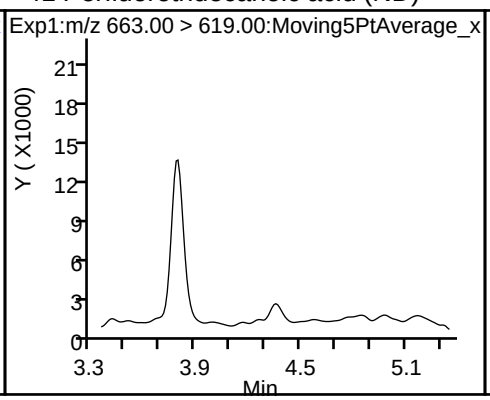
37 Perfluorododecanoic acid



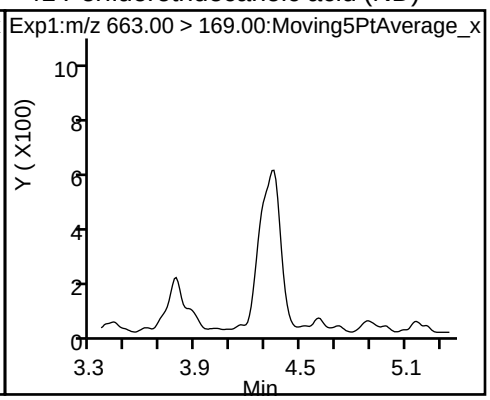
D 36 13C2 PFDoA



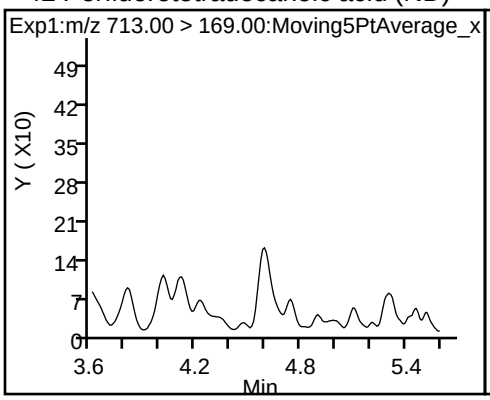
41 Perfluorotridecanoic acid (ND)



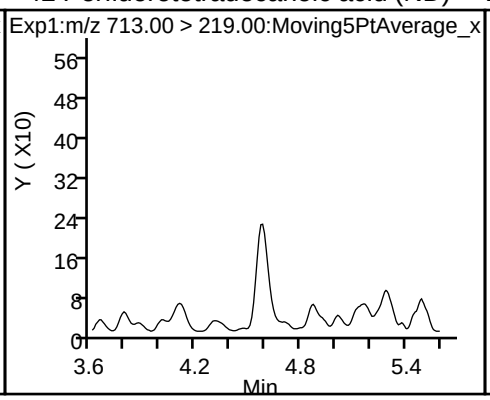
41 Perfluorotridecanoic acid (ND)



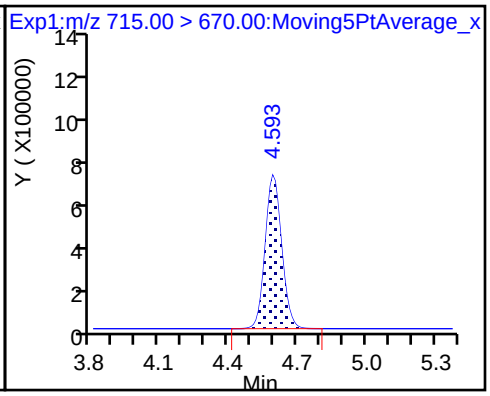
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

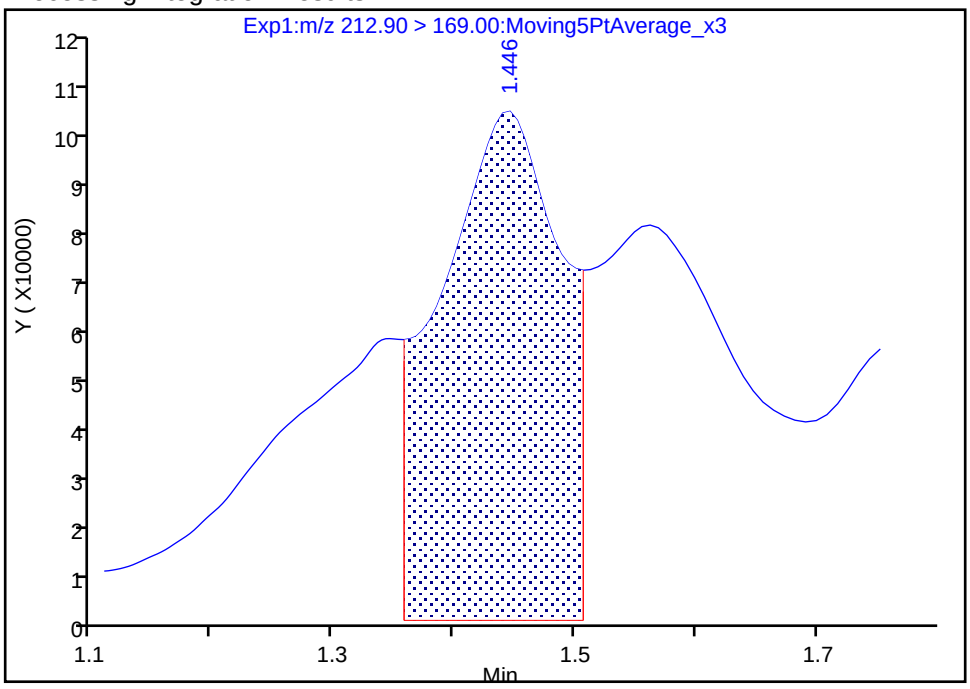
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_014.d				
Injection Date:	28-Mar-2018 19:46:33	Instrument ID:	A8_N		
Lims ID:	320-37224-A-1-A	Lab Sample ID:	320-37224-1		
Client ID:	Recharge Basin				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

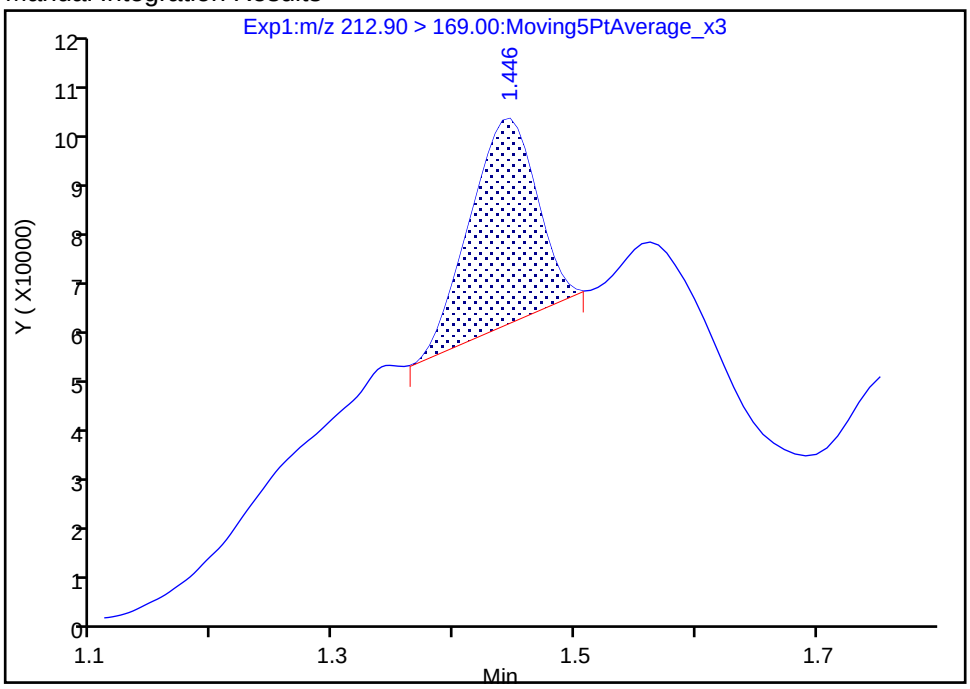
Processing Integration Results

RT: 1.45
Area: 684701
Amount: 0.356330
Amount Units: ng/ml



Manual Integration Results

RT: 1.45
Area: 142089
Amount: 0.073946
Amount Units: ng/ml



Reviewer: hannigana, 29-Mar-2018 07:44:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

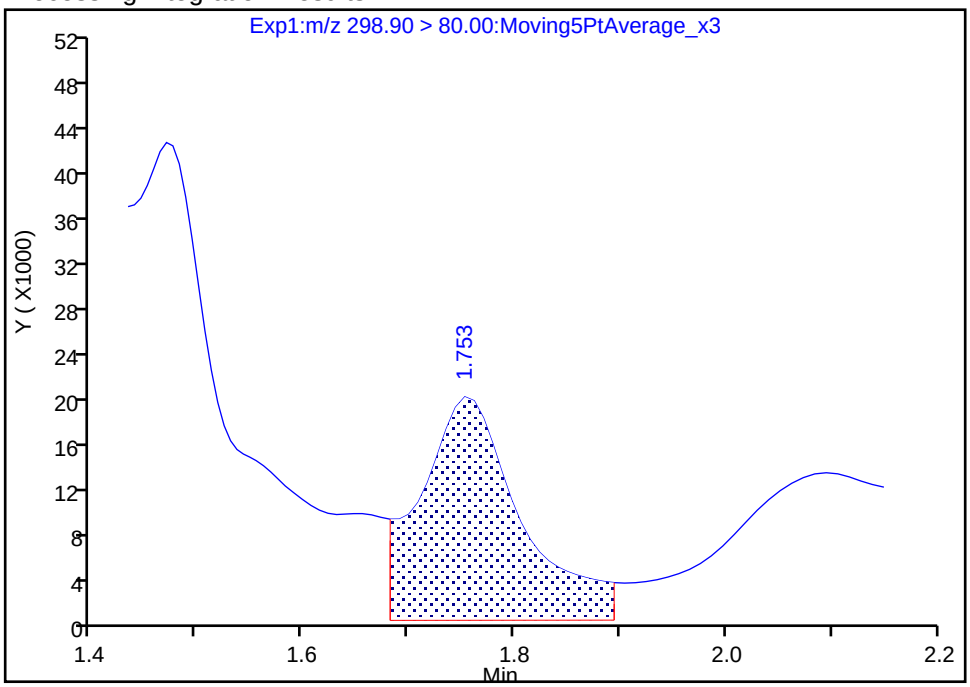
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_014.d				
Injection Date:	28-Mar-2018 19:46:33	Instrument ID:	A8_N		
Lims ID:	320-37224-A-1-A	Lab Sample ID:	320-37224-1		
Client ID:	Recharge Basin				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

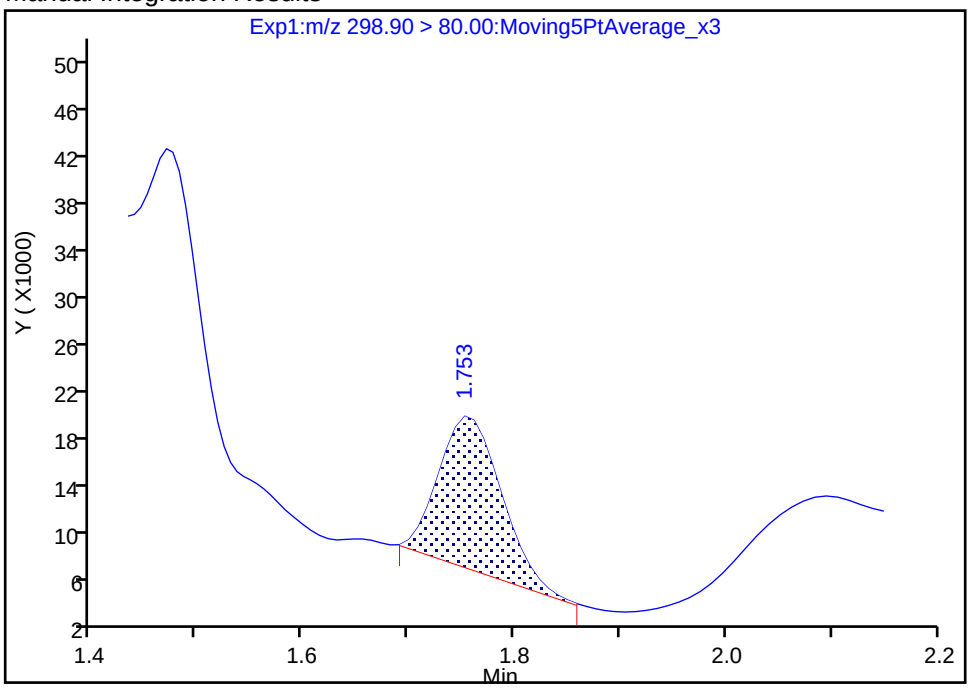
Processing Integration Results

RT: 1.75
Area: 128430
Amount: 0.044303
Amount Units: ng/ml



Manual Integration Results

RT: 1.75
Area: 52641
Amount: 0.018159
Amount Units: ng/ml



Reviewer: hannigana, 29-Mar-2018 07:44:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 320-37224-2

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_040.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.08(g) | Date Analyzed: 03/30/2018 18:24

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.00077		0.00048	0.000068
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.00019	U	0.00048	0.00019
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0041	F1	0.00048	0.00010
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0041	F1	0.00048	0.000070
335-67-1	Perfluorooctanoic acid (PFOA)	0.024	F2	0.00048	0.00021
375-95-1	Perfluorononanoic acid (PFNA)	0.0096	F1 F2	0.00048	0.000087
335-76-2	Perfluorodecanoic acid (PFDA)	0.016	F1 F2	0.00048	0.000053
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0039		0.00048	0.000087
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0043		0.00048	0.00016
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	0.0012		0.00048	0.00012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0015		0.00048	0.00013
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0011		0.00048	0.000060
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0051	F1 F2	0.00048	0.000075
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00036	J	0.00048	0.000084
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.032	B	0.0012	0.00048
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.000094	U	0.00048	0.000094
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.00049		0.00048	0.00020
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0065		0.0048	0.00094
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00089	U	0.0048	0.00089
27619-97-2	6:2FTS	0.022	B * F2	0.0048	0.00036
39108-34-4	8:2FTS	0.0011	J	0.0048	0.00060

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 320-37224-2

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_040.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.08(g) | Date Analyzed: 03/30/2018 18:24

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	29		25-150
STL01893	13C5 PFPeA	40		25-150
STL00993	13C2 PFHxA	40		25-150
STL01892	13C4-PFHpA	45		25-150
STL00990	13C4 PFOA	48		25-150
STL00995	13C5 PFNA	52		25-150
STL00996	13C2 PFDA	61		25-150
STL00997	13C2 PFUnA	69		25-150
STL00998	13C2 PFDoA	67		25-150
STL02116	13C2-PFTeDA	65		25-150
STL02337	13C3-PFBS	54		25-150
STL00994	18O2 PFHxS	55		25-150
STL00991	13C4 PFOS	56		25-150
STL01056	13C8 FOSA	53		25-150
STL02118	d3-NMeFOSAA	94		25-150
STL02117	d5-NEtFOSAA	96		25-150
STL02279	M2-6:2FTS	158	*	25-150
STL02280	M2-8:2FTS	266	*	25-150

Report Date: 07-Apr-2018 11:36:09 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d
Lims ID: 320-37224-A-2-A
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 30-Mar-2018 18:24:19 ALS Bottle#: 29 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-a-2-a
Misc. Info.: Plate: 1 Rack: 6
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:00:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.435	-0.002	1.000	2695228	0.7205		28.8	11139	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.456	1.442	0.014	1.015	158001	0.1586			3.9	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.698	1.701	-0.003	0.556	2416480	0.99		39.7	7834	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.689	1.703	-0.014	0.995	31586	0.0273			0.9	M
D 47 13C3-PFBS										
301.90 > 83.00	1.734	1.737	-0.003	1.000	69546	1.25		53.6	61.3	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	1.680	1.739	-0.059	0.969	515615	0.2185			26.5	RM
298.90 > 99.00	1.734	1.739	-0.005	1.000	80804		6.38(1.25-3.74)		42.7	
D 60 M2-4:2FTS										
329.00 > 81.00	2.022	1.948	0.074	1.000	69735	0.1638		0.0	22.0	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.961	-0.005	1.000	10092	0.0196			100	
D 7 13C2 PFHxA										
315.00 > 270.00	1.988	1.991	-0.003	1.000	2651709	0.9878		39.5	25255	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.999	1.994	0.005	1.006	925614	0.8528			77.7	M
313.00 > 119.00	1.988	1.994	-0.006	1.000	63306		14.62(5.03-15.10)		123	M
70 Perfluoropentanesulfonic acid										R
349.00 > 80.00	2.011	2.016	-0.005	1.000	318978	0.1498			70.4	R
349.00 > 99.00	2.011	2.016	-0.005	1.000	63498		5.02(1.36-4.07)		113	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.022	2.095	-0.073	1.000	39935	NR			20.8	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.319	-0.003	1.000	2925302	1.13		45.3	36273	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.316	2.322	-0.006	1.000	1081460	0.8506			174	M
363.00 > 169.00	2.316	2.322	-0.006	1.000	439040		2.46(1.13-3.40)		873	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.332	-0.003	1.000	4160596	1.29		54.7	48013	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.336	-0.007	1.000	2089192	1.06			397	
399.00 > 99.00	2.329	2.336	-0.007	1.000	690870		3.02(1.50-4.49)		539	
D 12 M2-6:2FTS										
429.00 > 81.00	2.658	2.655	0.003	1.000	2231447	3.74		158	2533	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.658	2.668	-0.010	1.000	7981238	4.55			37915	
D 14 13C4 PFOA										
417.00 > 372.00	2.681	2.685	-0.004	1.000	3023410	1.19		47.7	50226	
* 62 13C2-PFOA										
415.00 > 370.00	2.681	2.691	-0.010		6767459	2.50			74009	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.681	2.691	-0.010	1.000	7196248	5.02			1447	
413.00 > 169.00	2.681	2.691	-0.010	1.000	3748094		1.92(0.84-2.52)		7557	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.688	2.698	-0.010	1.000	125272	0.0754			71.9	
449.00 > 99.00	2.688	2.698	-0.010	1.000	30345		4.13(1.94-5.82)		69.2	
D 18 13C4 PFOS										
503.00 > 80.00	3.053	3.051	0.002	1.000	2979186	1.33		55.8	5109	
D 19 13C5 PFNA										
468.00 > 423.00	3.053	3.051	0.002	1.000	2803005	1.31		52.2	47429	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.053	3.060	-0.007	1.000	9558445	6.71			5950	
499.00 > 99.00	3.053	3.060	-0.007	1.000	2052021		4.66(2.31-6.93)		4339	
20 Perfluorononanoic acid										
463.00 > 419.00	3.053	3.060	-0.007	1.000	2304144	2.00			1620	
463.00 > 169.00	3.053	3.060	-0.007	1.000	589116		3.91(1.90-5.69)		8503	
D 21 13C8 FOSA										
506.00 > 78.00	3.389	3.388	0.001	1.000	4152642	1.32		52.6	42538	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.389	3.398	-0.009	1.000	166248	0.1013			188	
D 26 M2-8:2FTS										
529.00 > 81.00	3.407	3.407	0.0	1.000	4409750	6.36		266	8696	
D 23 13C2 PFDA										
515.00 > 470.00	3.417	3.416	0.001	1.000	2772379	1.53		61.2	69045	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.407	3.417	-0.010	1.000	541384	0.2180			15096	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.417	3.426	-0.009	1.000	3599171	3.28			3659	
513.00 > 169.00	3.407	3.426	-0.019	0.997	645140		5.58(2.36-7.09)		8495	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.566	3.574	-0.008	1.000	2269156	2.34		93.6	20374	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.566	3.586	-0.020	1.000	1282265	1.34			608	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.740	3.740	0.0	1.000	2437933	2.40		95.8	5507	
D 30 13C2 PFUnA										
565.00 > 520.00	3.740	3.750	-0.010	1.000	2550399	1.72		68.9	78456	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.740	3.751	-0.011	1.000	101481	0.1135			592	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.740	3.751	-0.011	1.000	662545	0.8094			961	
563.00 > 169.00	3.740	3.751	-0.011	1.000	152235		4.35(2.12-6.36)		2513	
35 MeFOSA										
512.00 > 169.00	3.897	3.875	0.022		11482	NC			18.3	
D 36 13C2 PFDoA										
615.00 > 570.00	4.040	4.040	0.0	1.000	2749099	1.67		66.7	25807	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.040	4.050	-0.010	1.000	1050623	0.8840			648	
613.00 > 169.00	4.040	4.050	-0.010	1.000	281289		3.74(2.13-6.40)		2131	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.299	4.307	-0.009	1.000	323238	0.2543			262	
663.00 > 169.00	4.299	4.307	-0.009	1.000	95353		3.39(1.25-3.76)		566	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.541	4.544	-0.003	1.000	3406589	1.63		65.1	20203	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.541	4.553	-0.012	1.000	107920	0.3171			830	
713.00 > 219.00	4.531	4.553	-0.022	0.998	71346		1.51(0.71-2.13)		373	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.956	4.959	-0.003	1.000	5236260	1.62		64.8	14132	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.956	4.966	-0.010	1.000	222433	0.0908			97.5	
813.00 > 169.00	4.956	4.966	-0.010	1.000	35861		6.20(2.86-8.58)		180	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.320	5.336	-0.016	1.000	63598	0.0306			33.5	
913.00 > 169.00	5.320	5.336	-0.016	1.000	7237		8.79(3.83-11.48)		41.2	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:36:09 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d

Injection Date: 30-Mar-2018 18:24:19 Instrument ID: A8_N

Lims ID: 320-37224-A-2-A Lab Sample ID: 320-37224-2

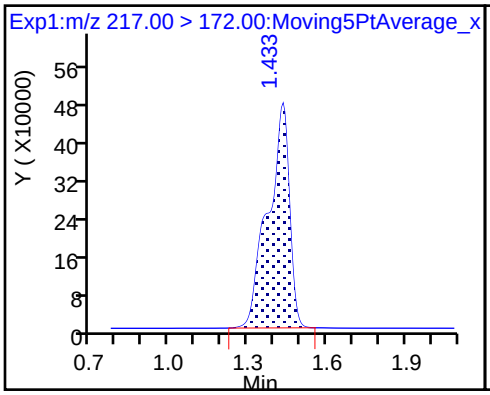
Client ID: Ash Pit

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 4

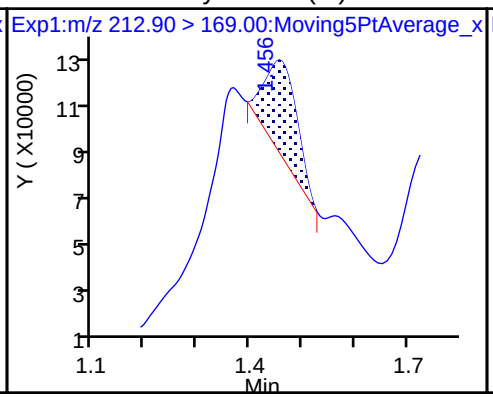
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

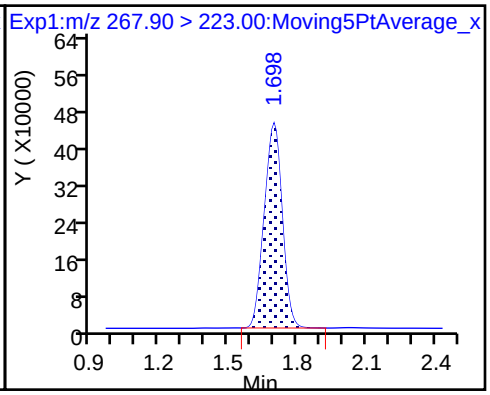
D 1 13C4 PFBA



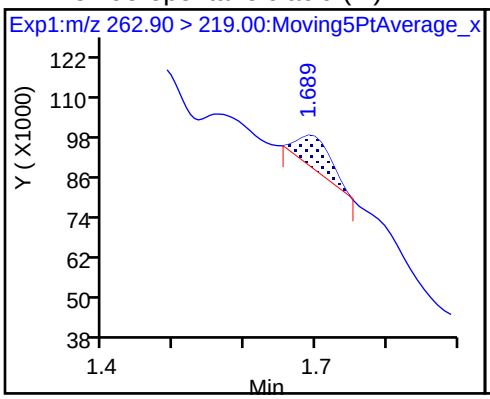
2 Perfluorobutyric acid (M)



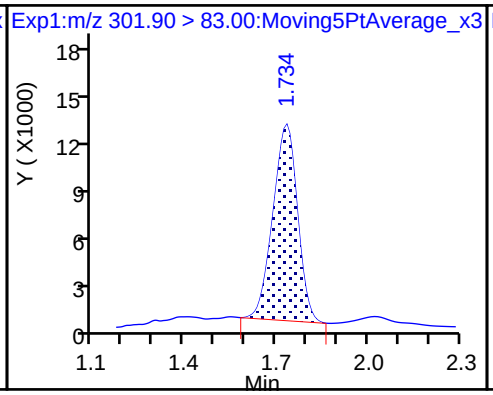
D 3 13C5-PFPeA



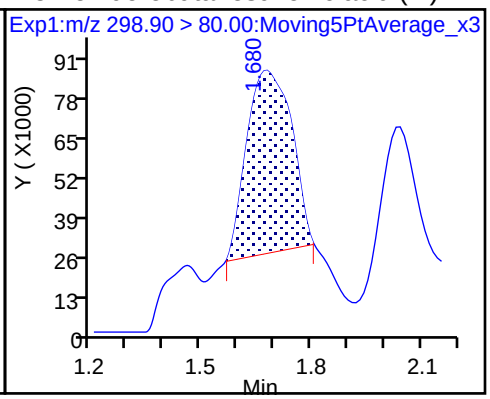
4 Perfluoropentanoic acid (M)



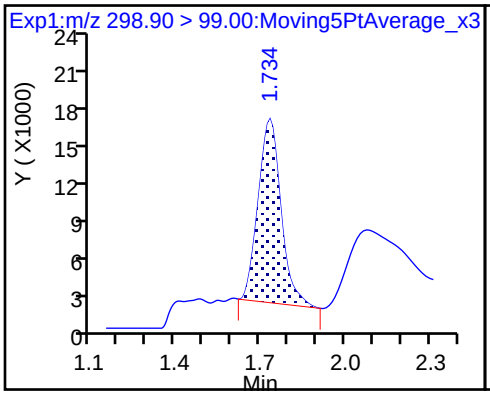
D 47 13C3-PFBS



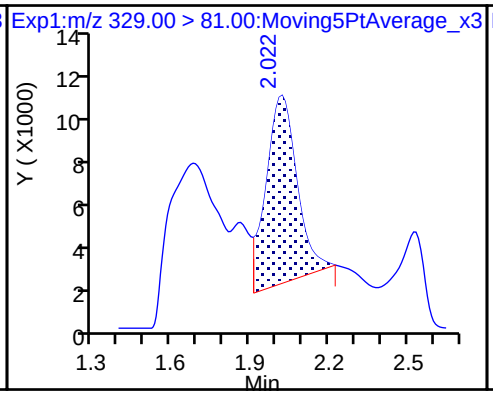
5 Perfluorobutanesulfonic acid (M)



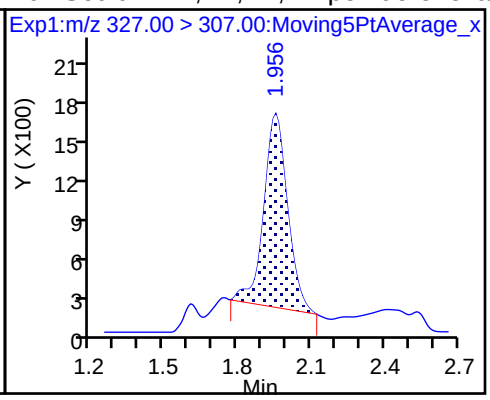
5 Perfluorobutanesulfonic acid



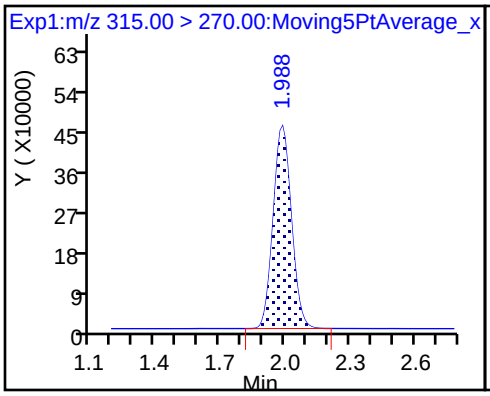
D 60 M2-4:2FTS



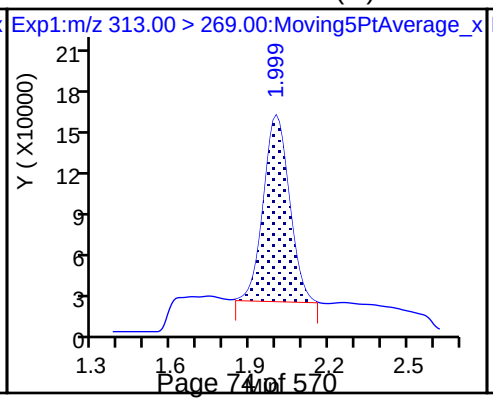
61 Sodium 1H,1H,2H,2H-perfluorohexane



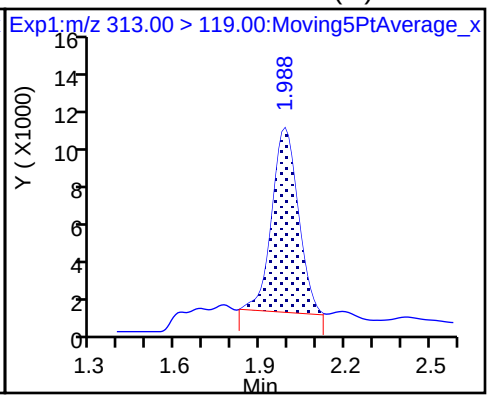
D 7 13C2 PFHxA



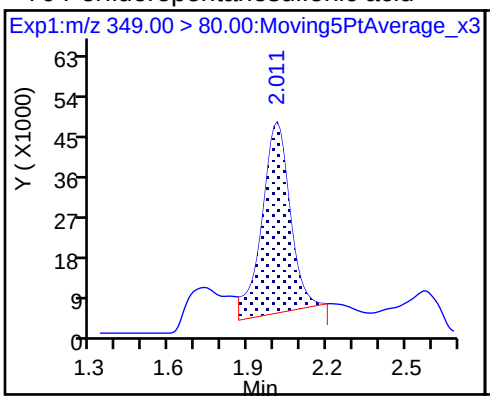
6 Perfluorohexanoic acid (M)



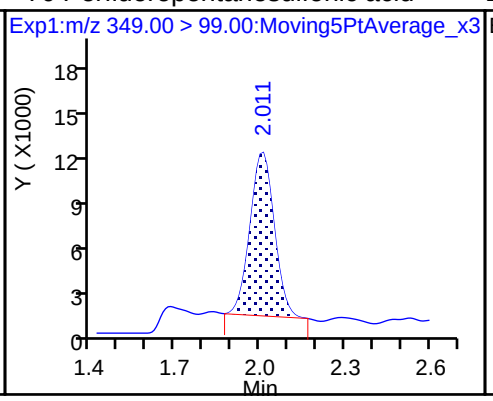
6 Perfluorohexanoic acid (M)



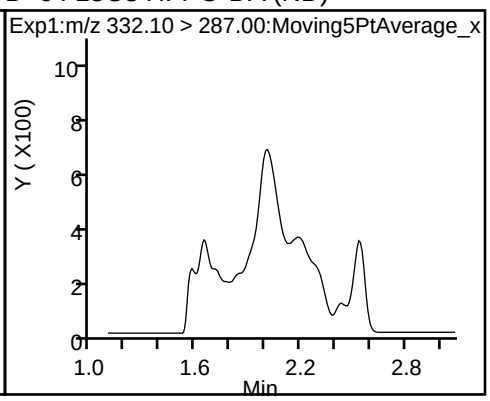
70 Perfluoropentanesulfonic acid



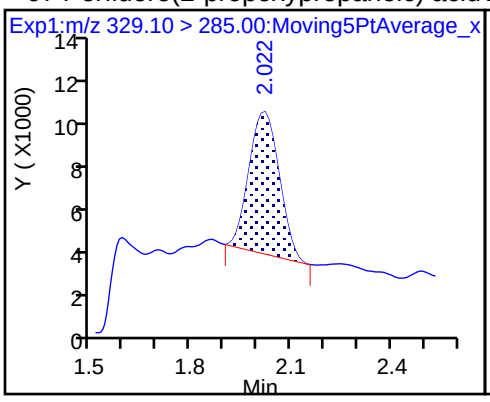
70 Perfluoropentanesulfonic acid



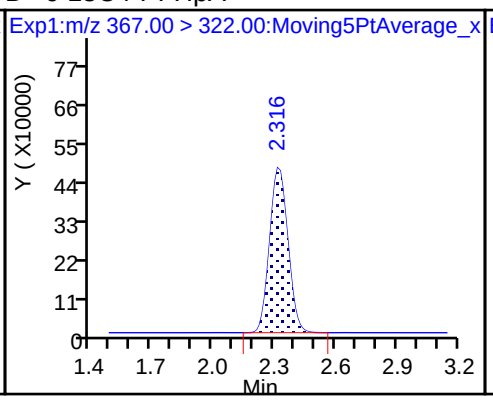
D 64 13C3 HFPO-DA (ND)



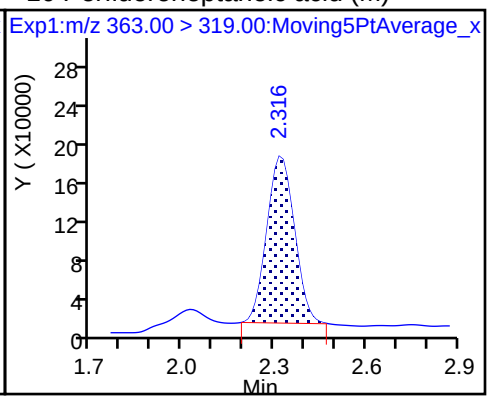
67 Perfluoro(2-propoxypropanoic) acid



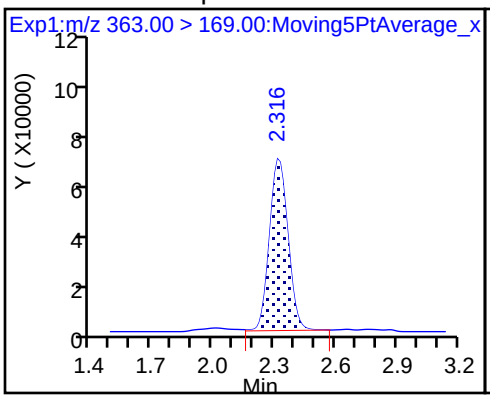
D 9 13C4-PFHpA



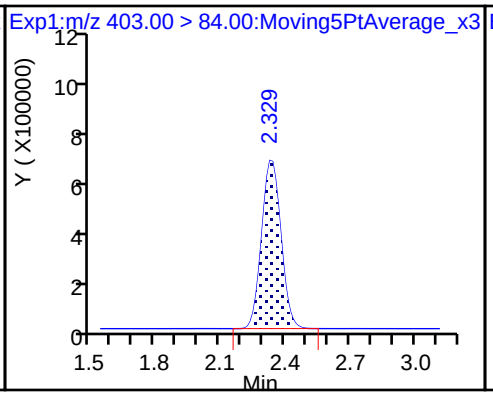
10 Perfluoroheptanoic acid (M)



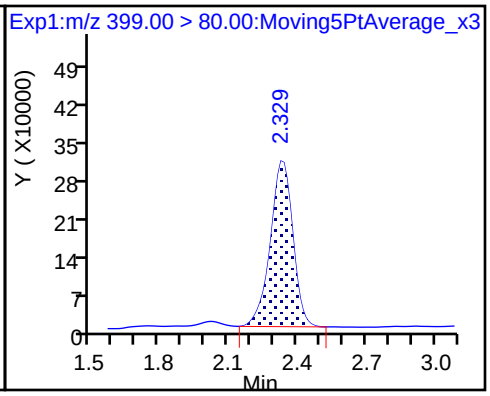
10 Perfluoroheptanoic acid



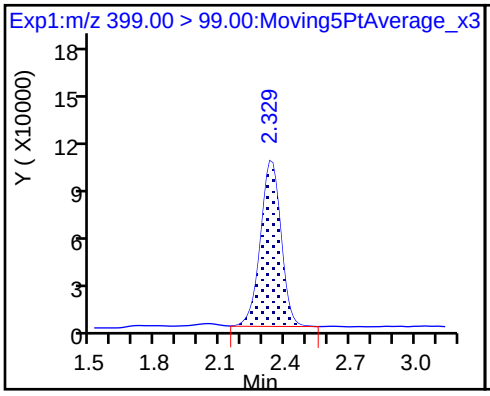
D 11 18O2 PFHxS



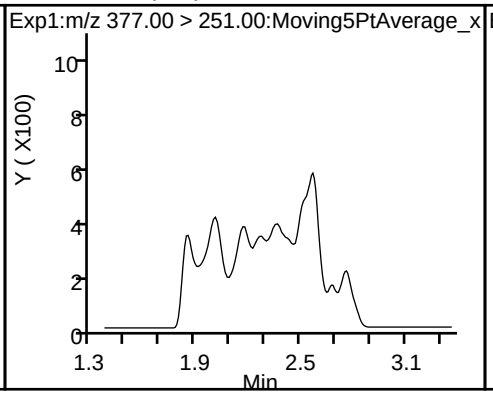
8 Perfluorohexanesulfonic acid



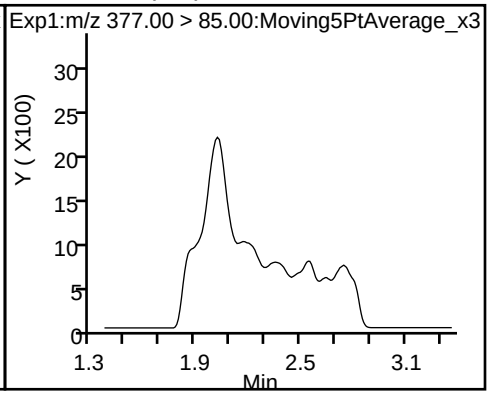
8 Perfluorohexanesulfonic acid



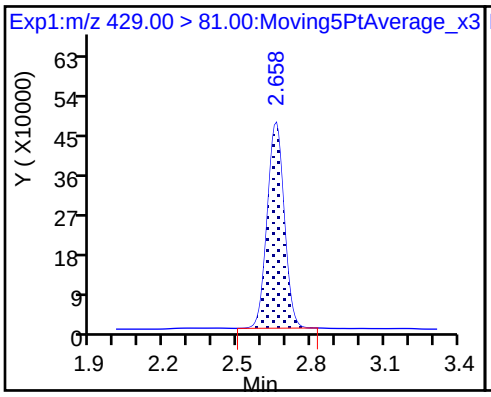
65 Adona (ND)



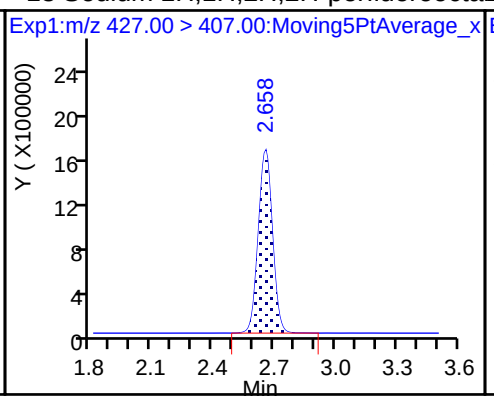
65 Adona (ND)



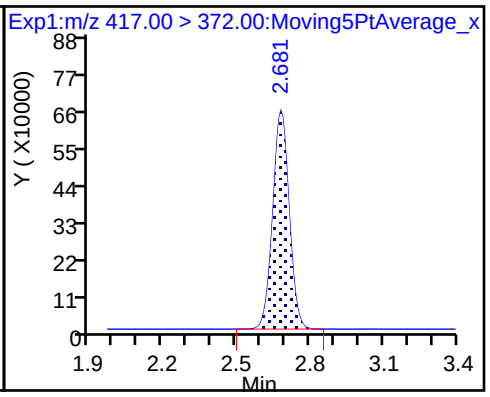
D 12 M2-6:2FTS



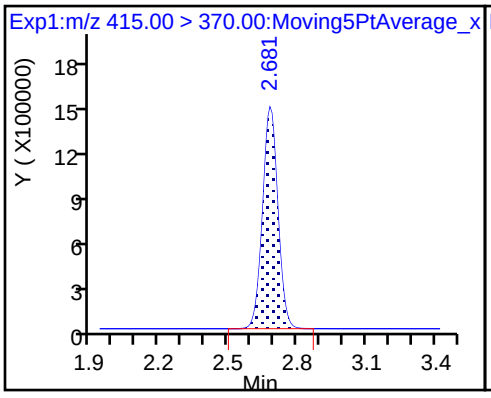
13 Sodium 1H,1H,2H,2H-perfluorooctane



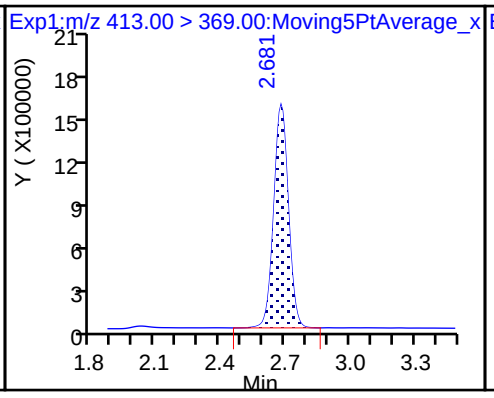
D 14 13C4 PFOA



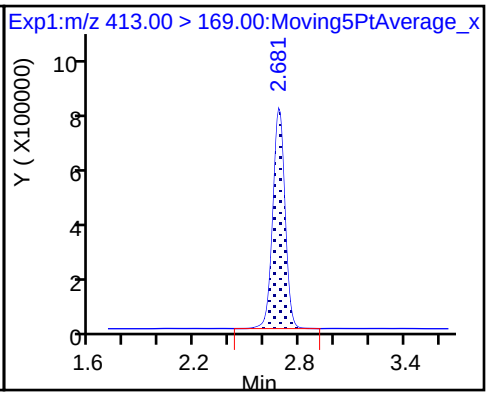
* 62 13C2-PFOA



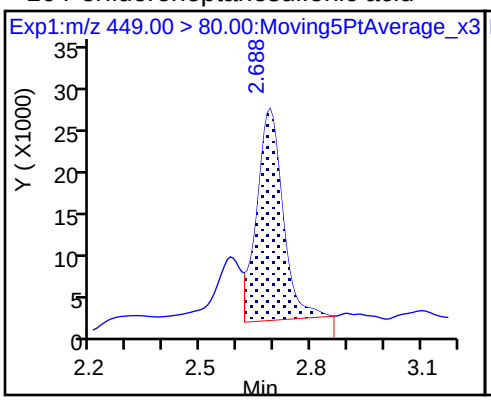
15 Perfluorooctanoic acid



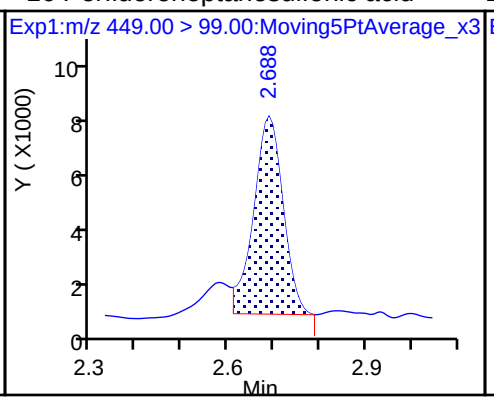
15 Perfluorooctanoic acid



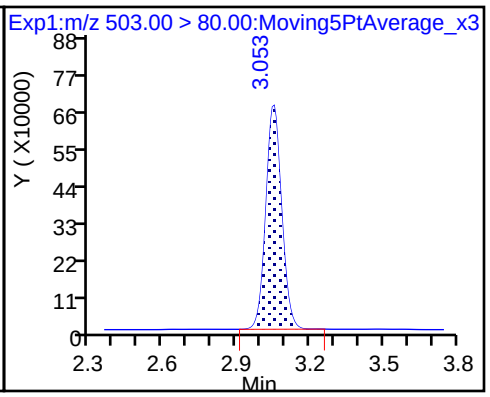
16 Perfluoroheptanesulfonic acid



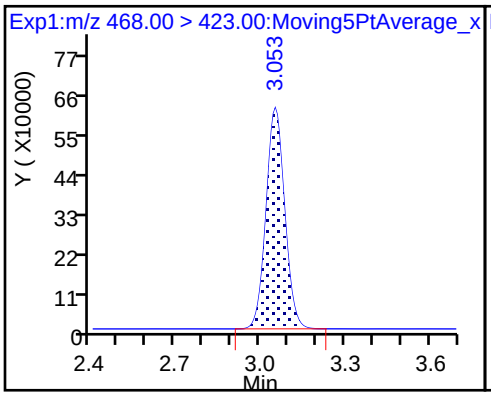
16 Perfluoroheptanesulfonic acid



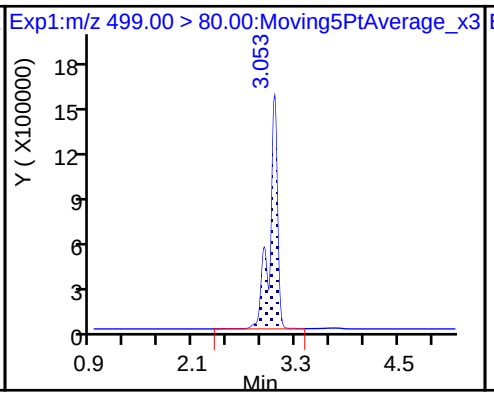
D 18 13C4 PFOS



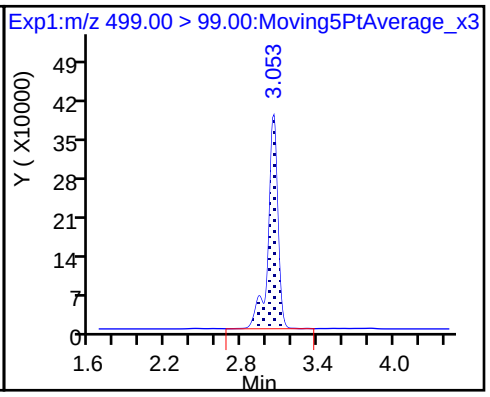
D 19 13C5 PFNA



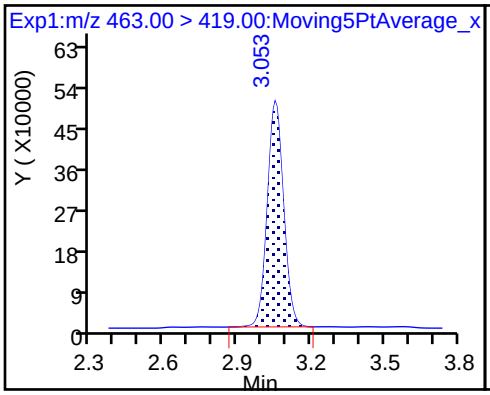
17 Perfluorooctane sulfonic acid



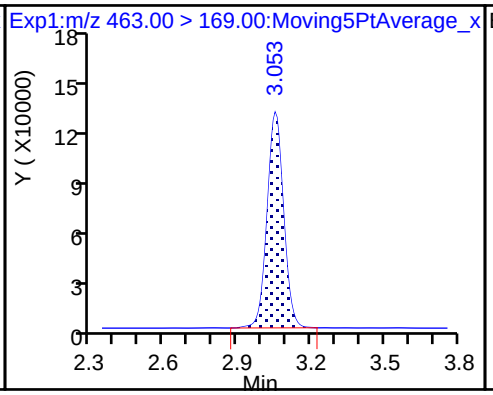
17 Perfluorooctane sulfonic acid



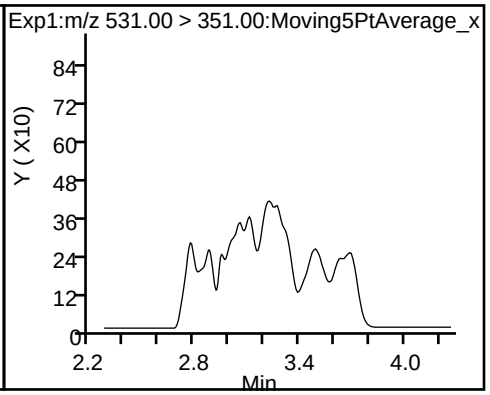
20 Perfluorononanoic acid



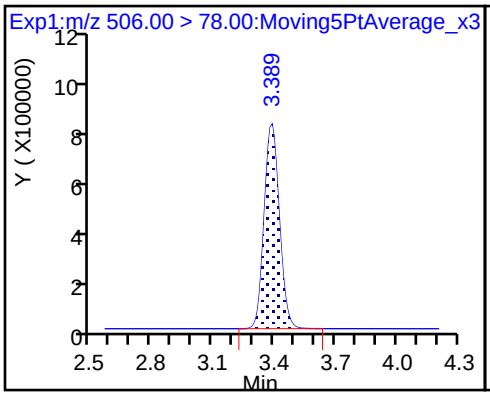
20 Perfluorononanoic acid



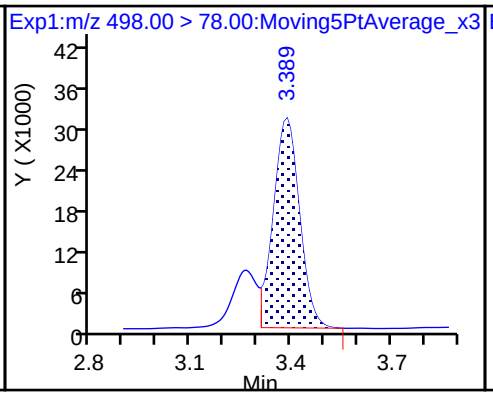
69 9-Chlorohexadecafluoro-3-oxanonane (ND)



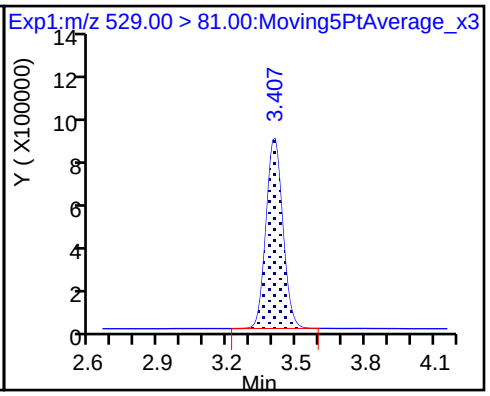
D 21 13C8 FOSA



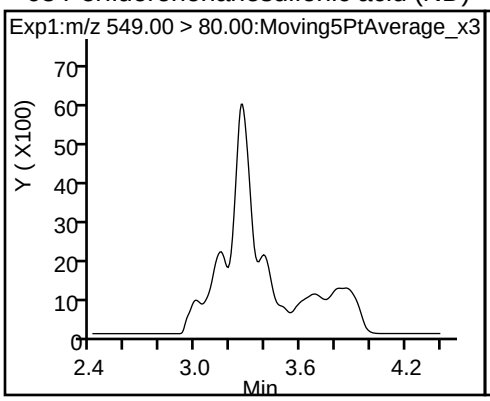
22 Perfluorooctane Sulfonamide



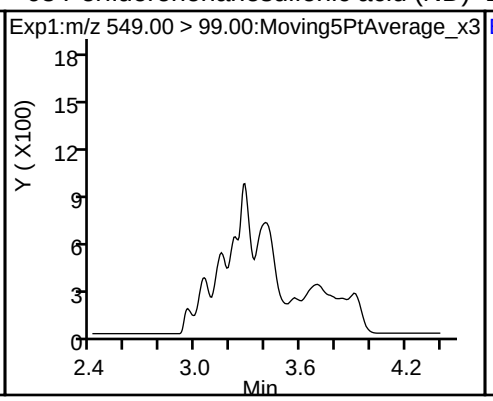
D 26 M2-8:2FTS



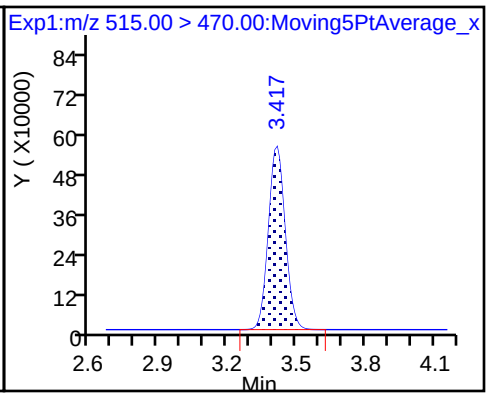
68 Perfluorononanesulfonic acid (ND)



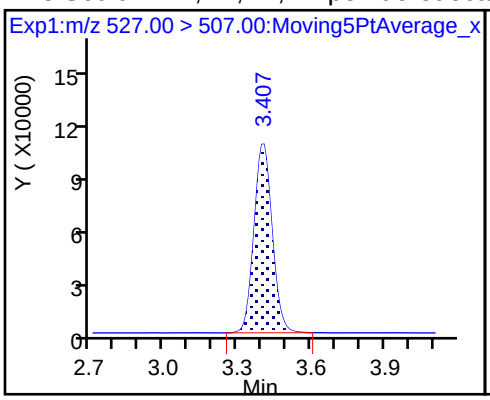
68 Perfluorononanesulfonic acid (ND)



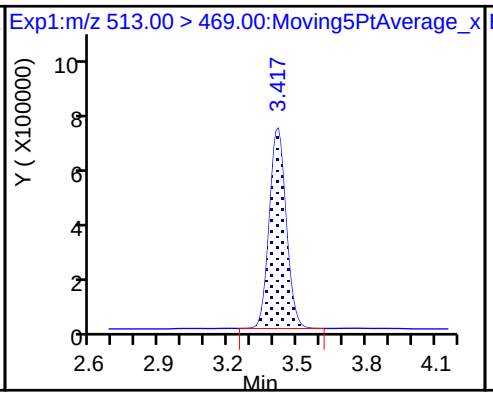
D 23 13C2 PFDA



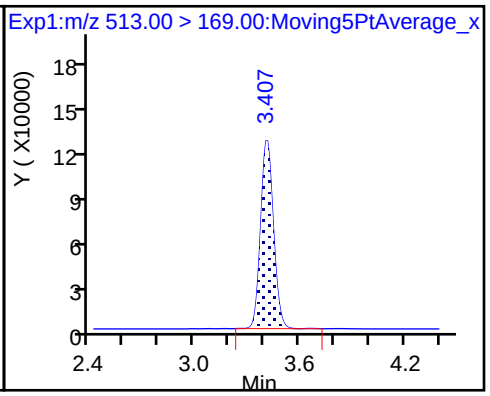
25 Sodium 1H,1H,2H,2H-perfluorodecane



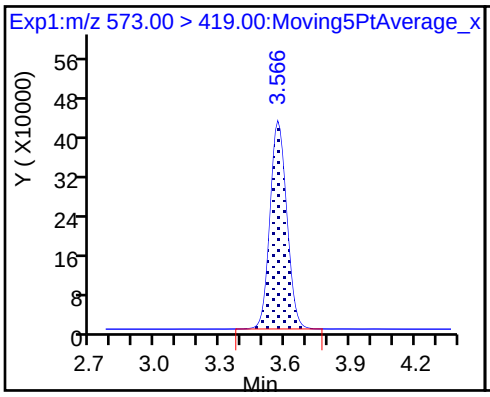
24 Perfluorodecanoic acid



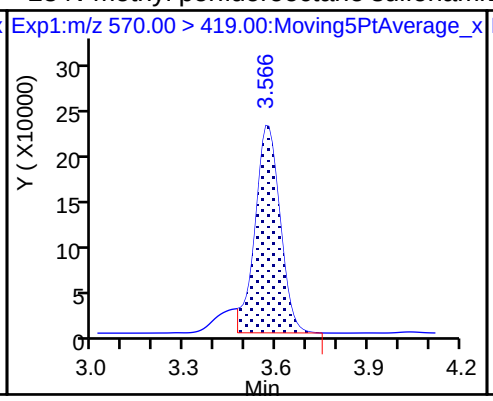
24 Perfluorodecanoic acid



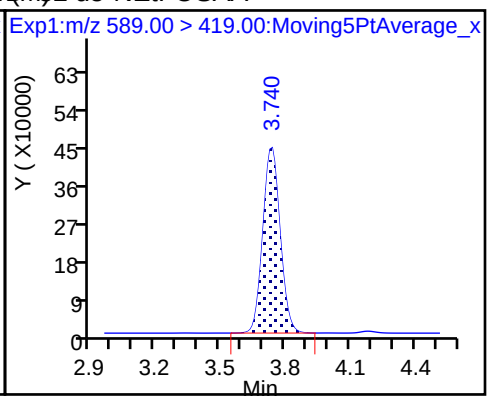
D 27 d3-NMeFOSAA



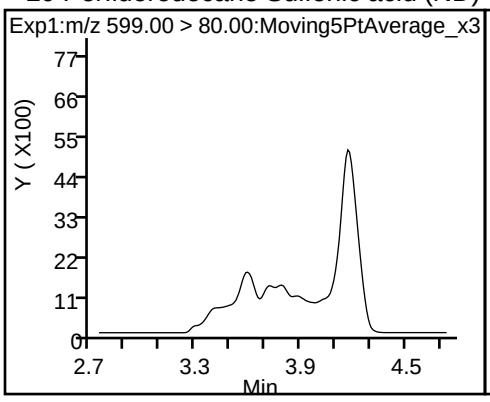
28 N-methyl perfluorooctane sulfonamid (M)



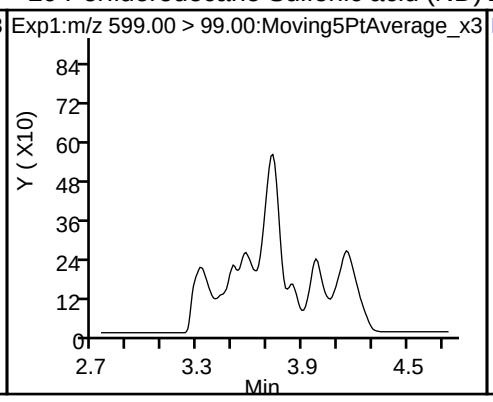
D 32 d5-NEtFOSAA



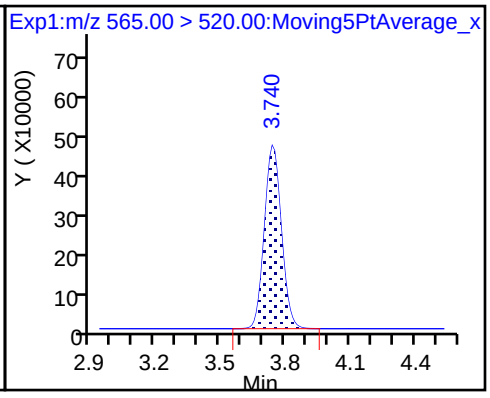
29 Perfluorodecane Sulfonic acid (ND)



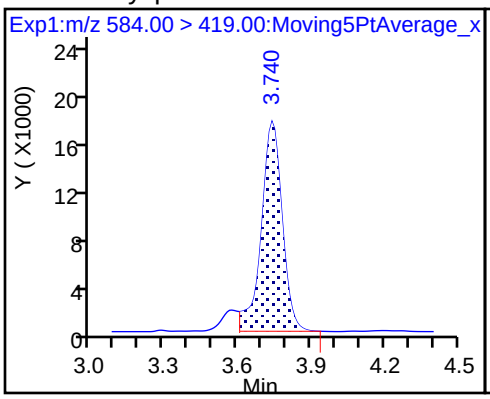
29 Perfluorodecane Sulfonic acid (ND)



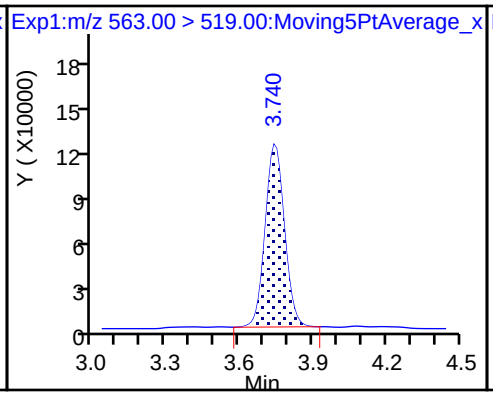
D 30 13C2 PFUnA



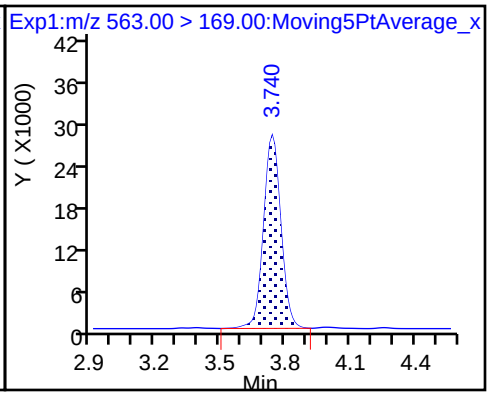
33 N-ethyl perfluorooctane sulfonamid



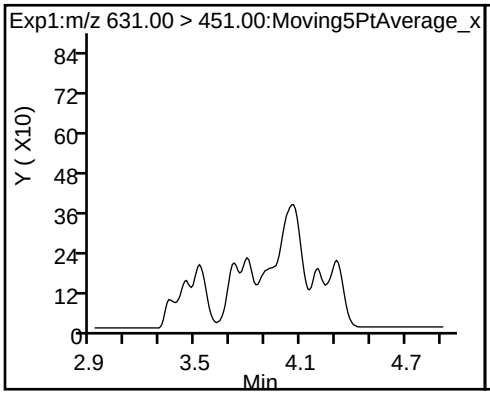
31 Perfluoroundecanoic acid



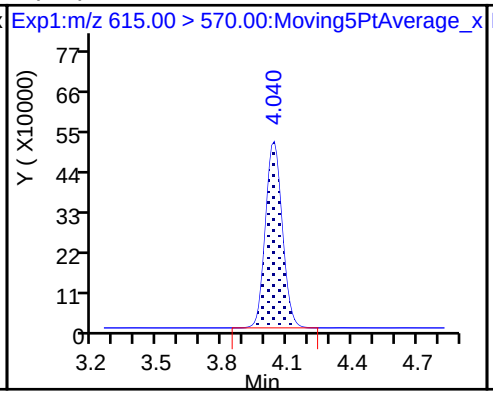
31 Perfluoroundecanoic acid



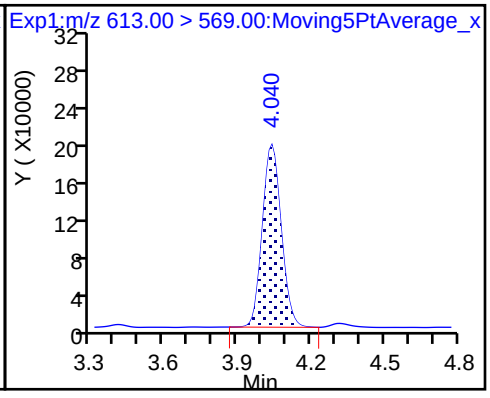
66 11-Chloroeicosafluoro-3-oxaundecan (ND)



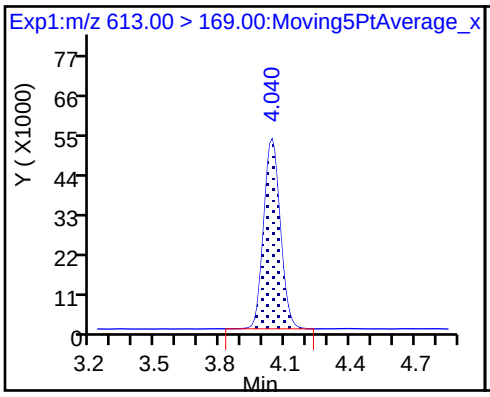
D 36 13C2 PFDoA



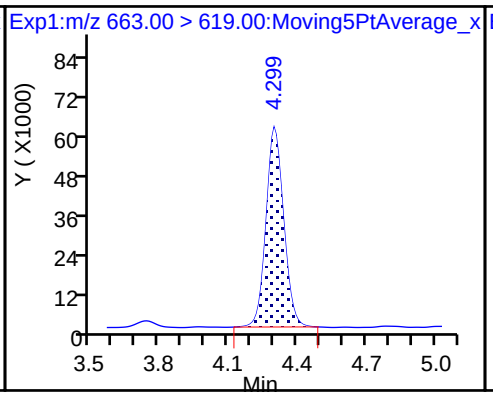
37 Perfluorododecanoic acid



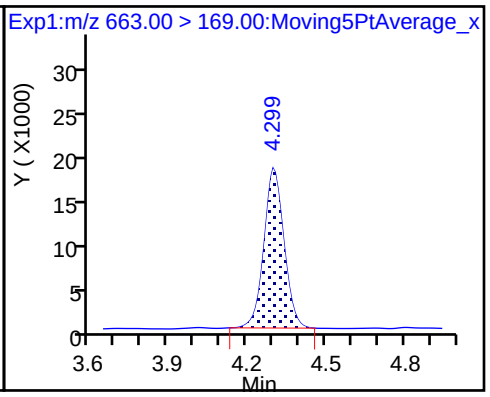
37 Perfluorododecanoic acid



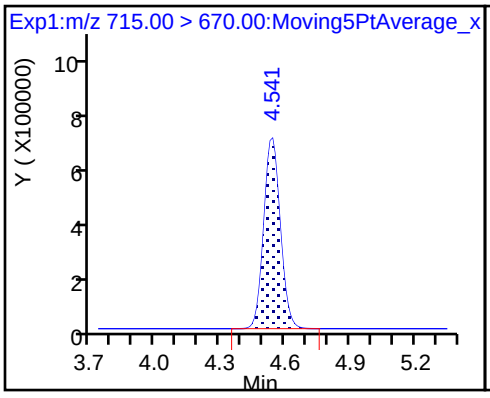
41 Perfluorotridecanoic acid



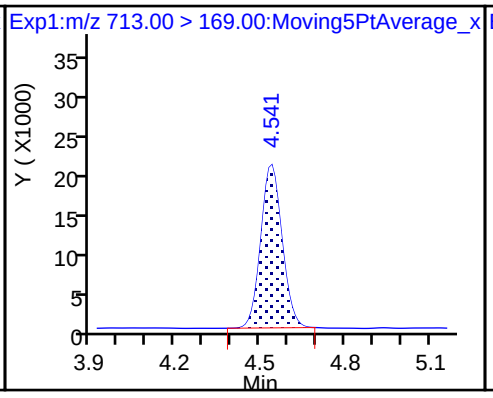
41 Perfluorotridecanoic acid



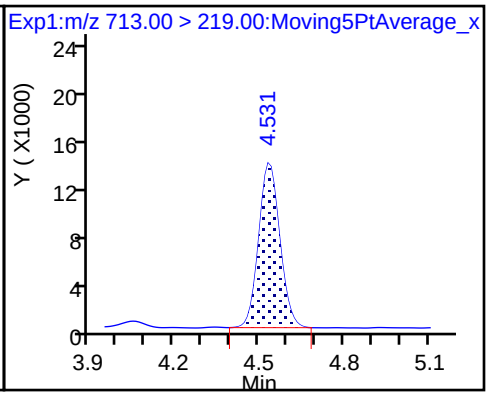
D 43 13C2-PFTeDA



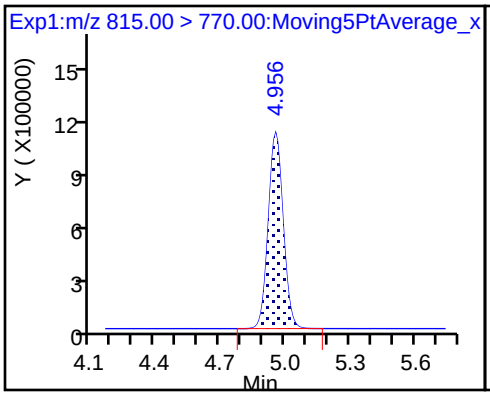
42 Perfluorotetradecanoic acid



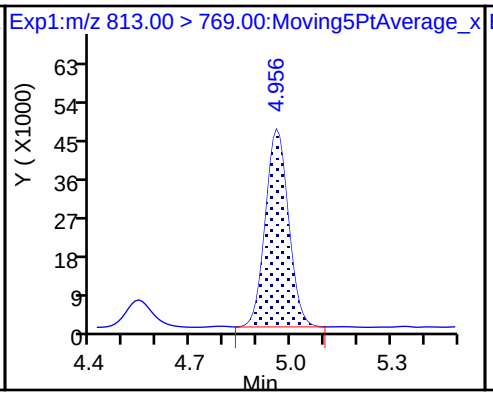
42 Perfluorotetradecanoic acid



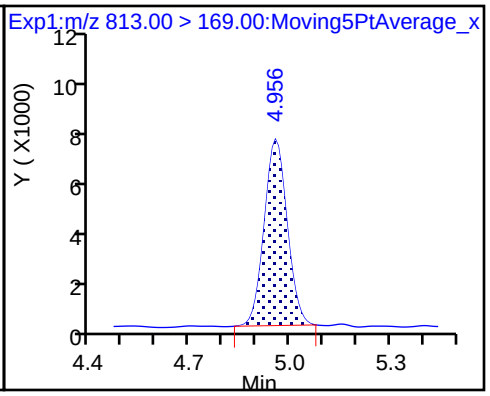
D 44 13C2-PFHxDA



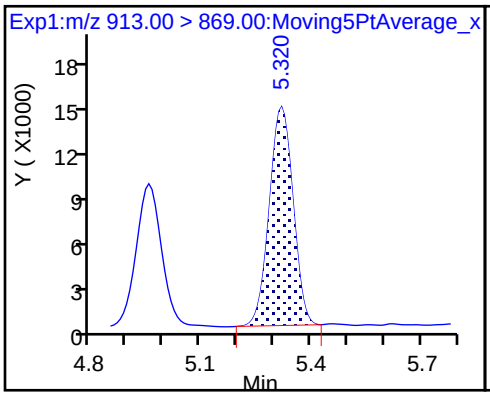
45 Perfluorohexadecanoic acid



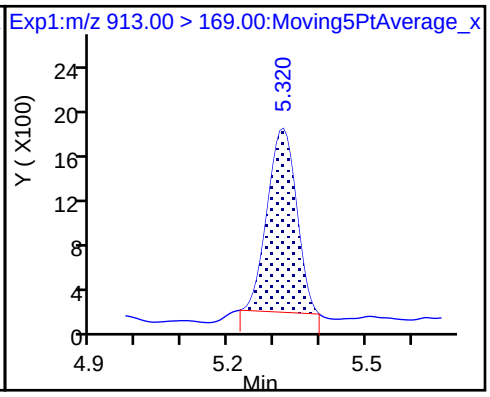
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

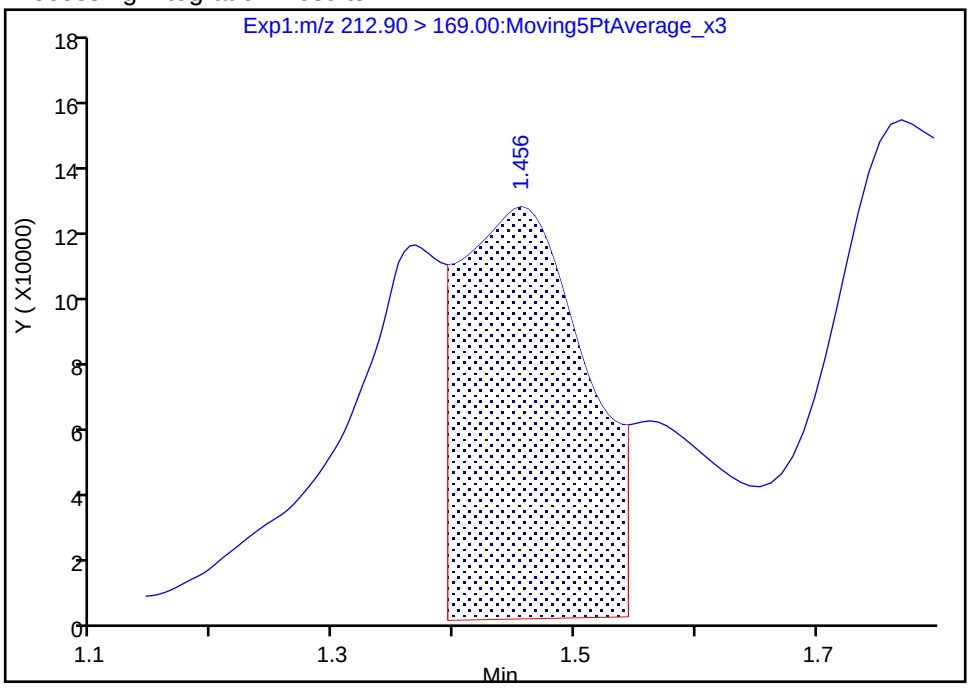
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

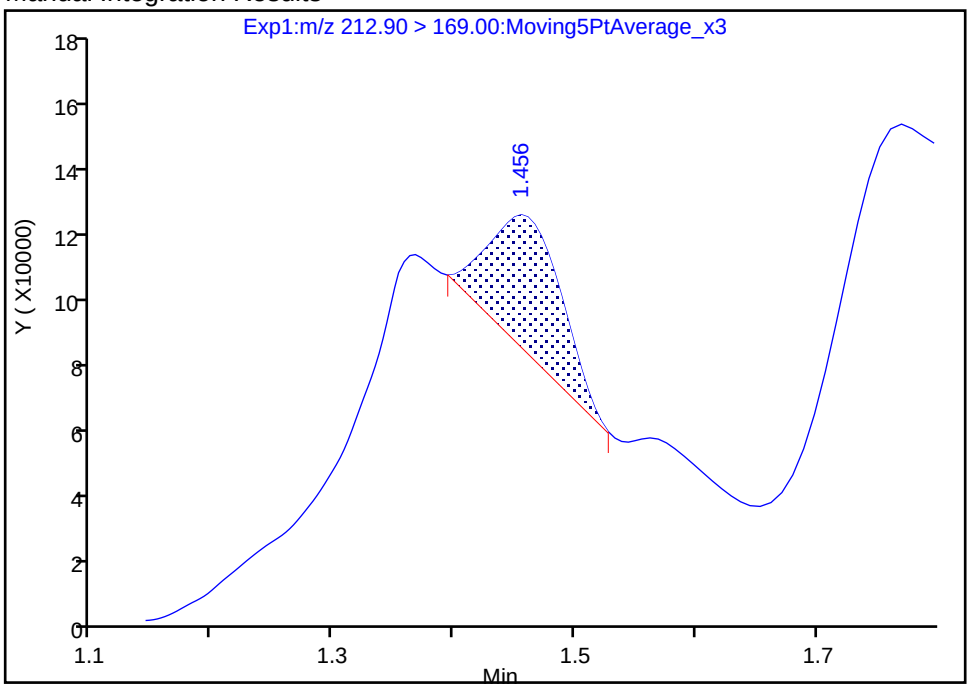
Processing Integration Results

RT: 1.46
Area: 862182
Amount: 0.865342
Amount Units: ng/ml



Manual Integration Results

RT: 1.46
Area: 158001
Amount: 0.158580
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:57:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

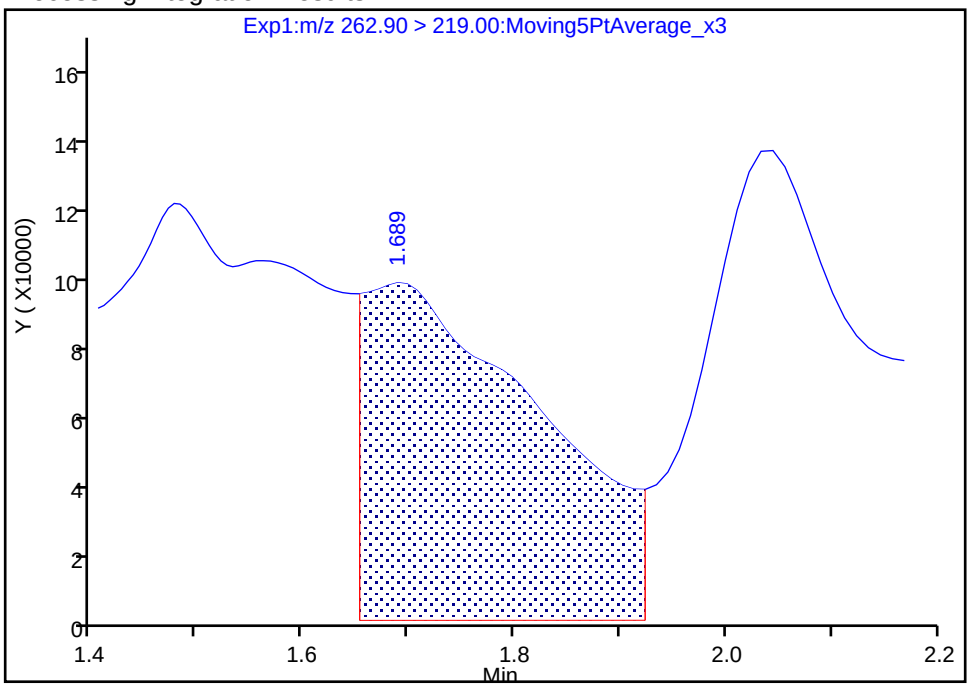
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

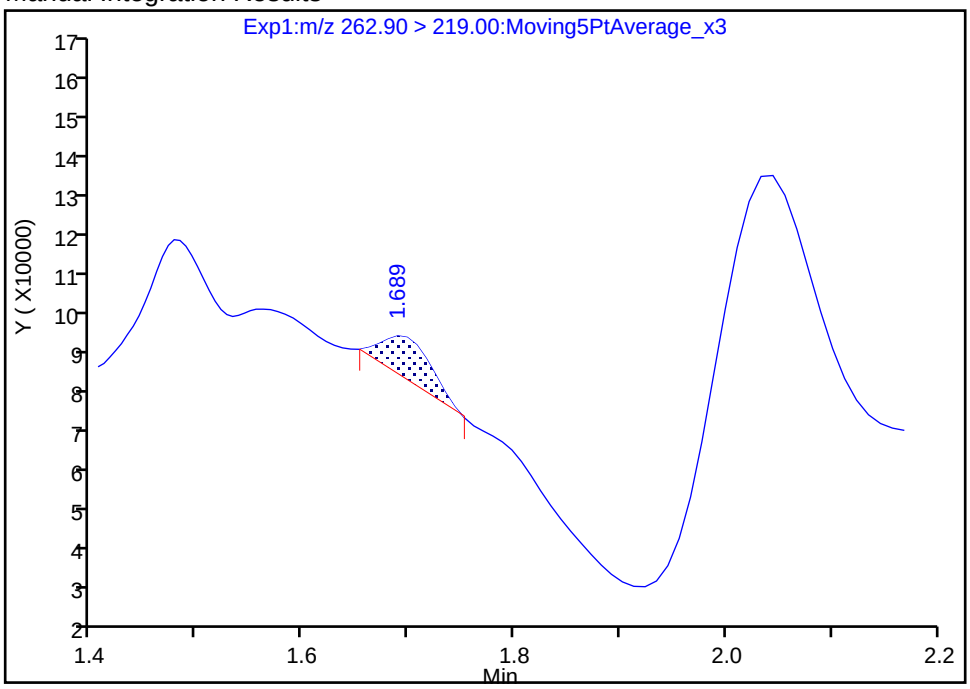
Processing Integration Results

RT: 1.69
Area: 1131933
Amount: 0.978400
Amount Units: ng/ml



Manual Integration Results

RT: 1.69
Area: 31586
Amount: 0.027302
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:58:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

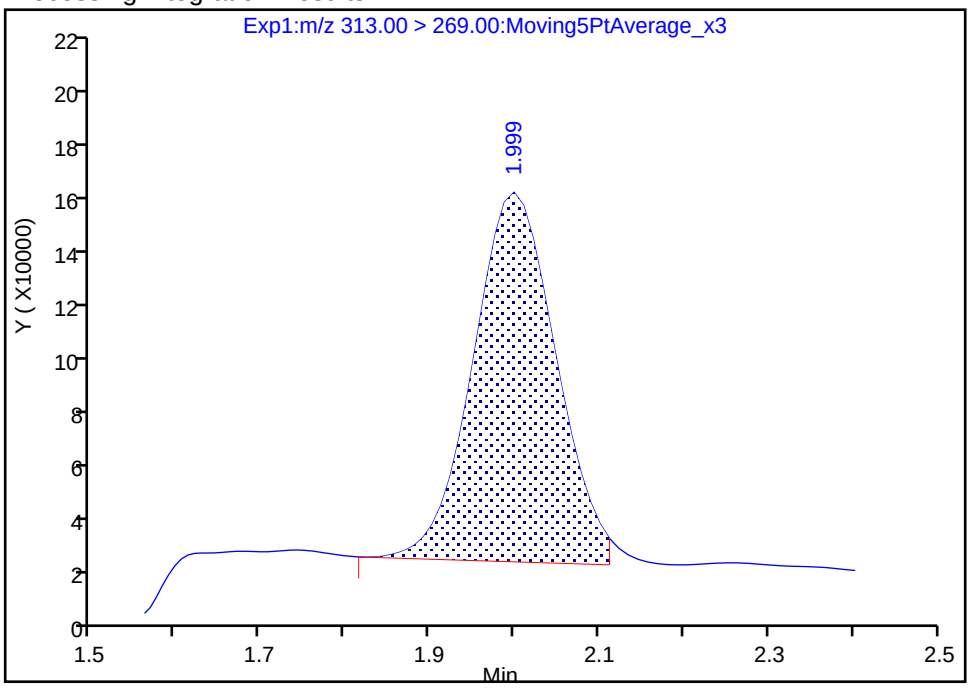
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

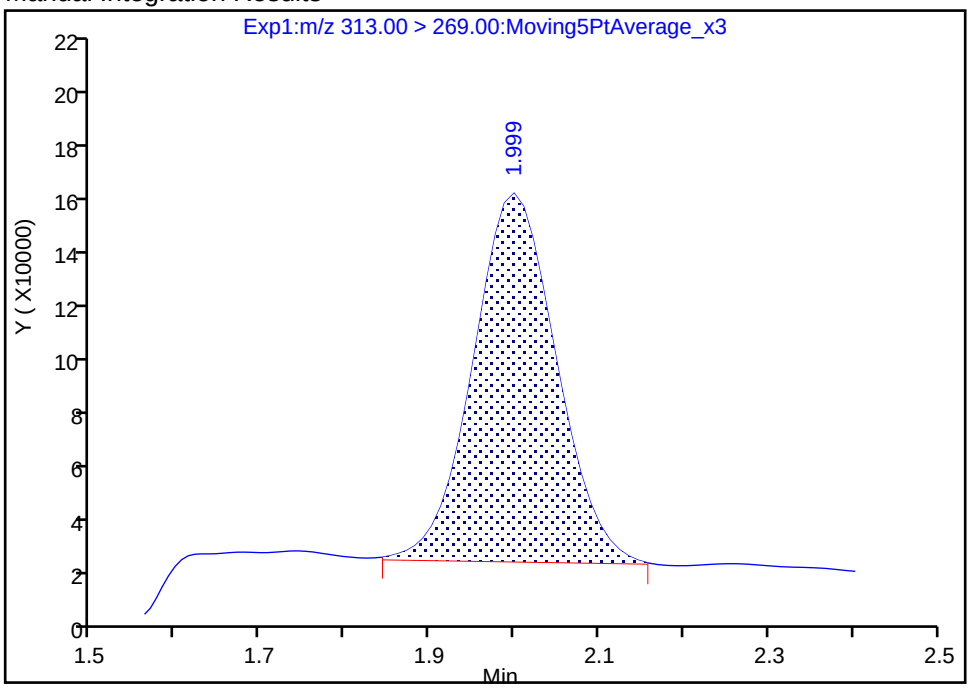
Processing Integration Results

RT: 2.00
Area: 918781
Amount: 0.846497
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 925614
Amount: 0.852793
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:58:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

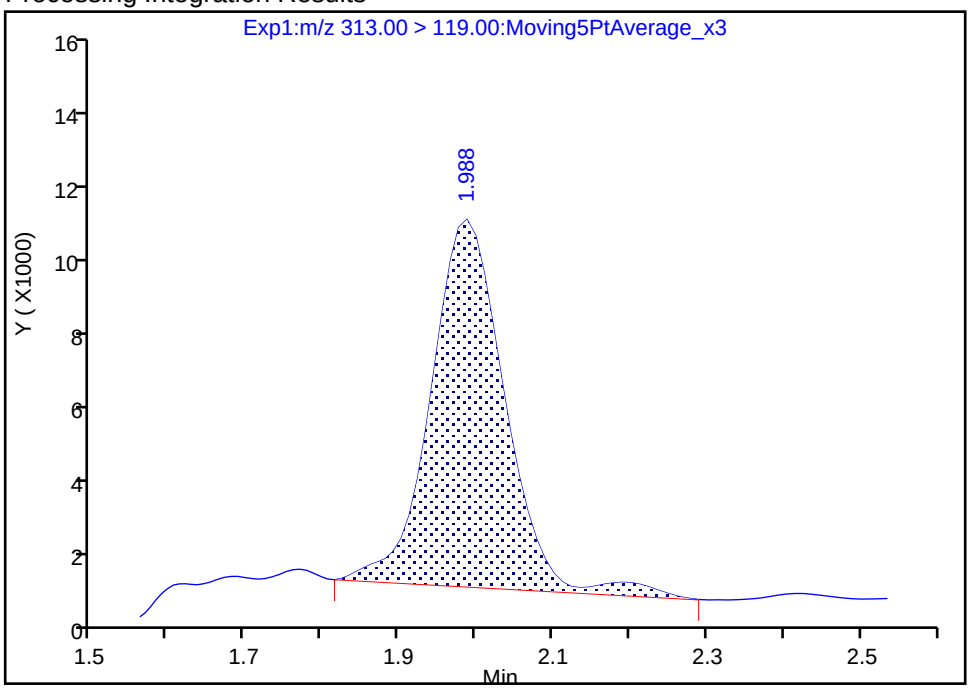
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

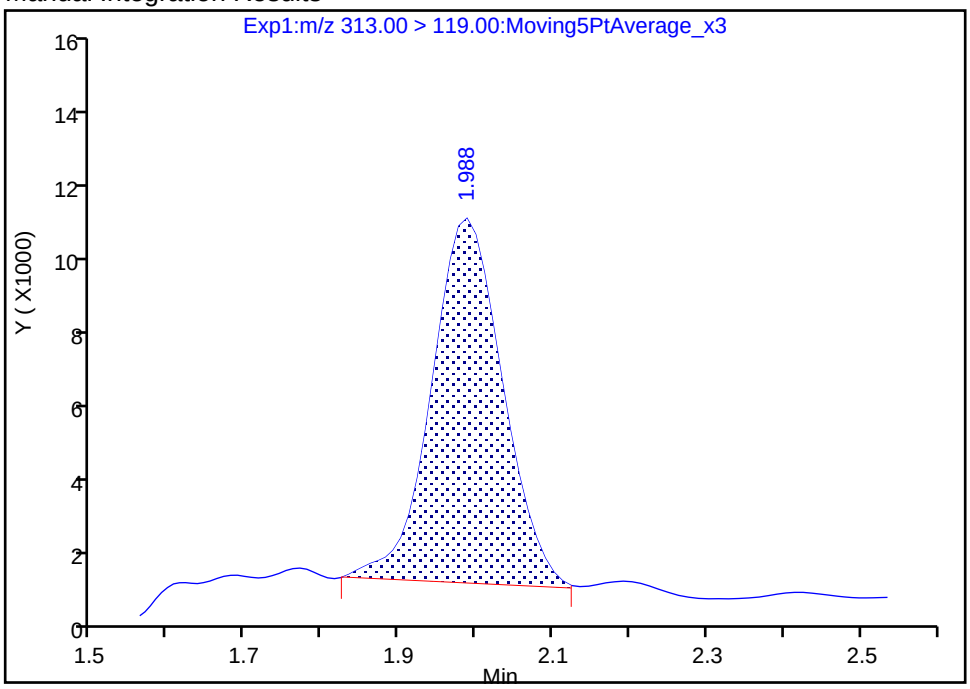
Processing Integration Results

RT: 1.99
Area: 66820
Amount: 0.846497
Amount Units: ng/ml



Manual Integration Results

RT: 1.99
Area: 63306
Amount: 0.852793
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:59:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

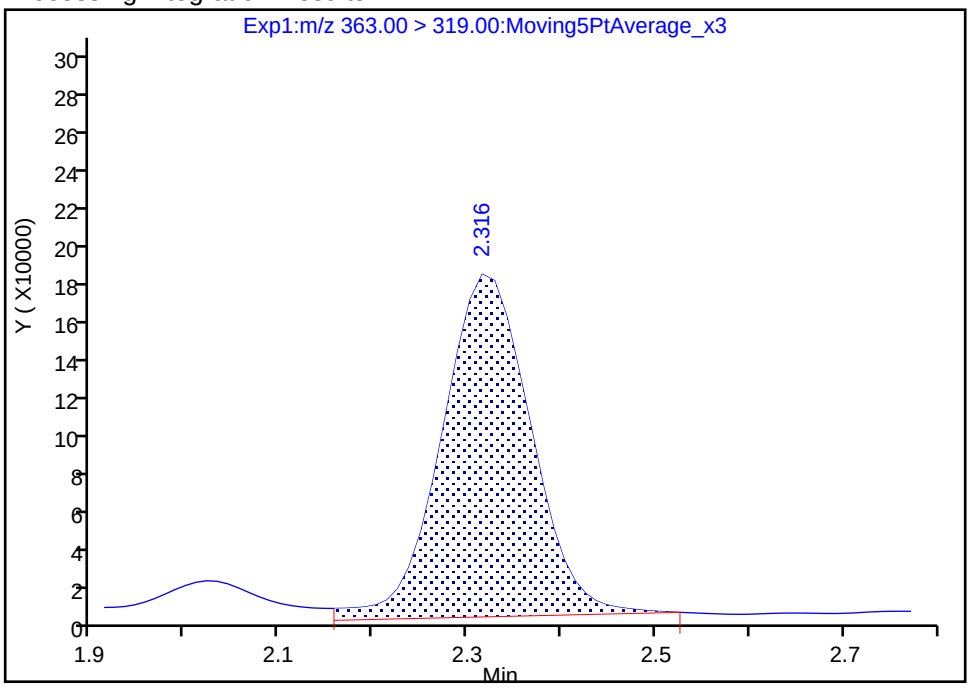
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

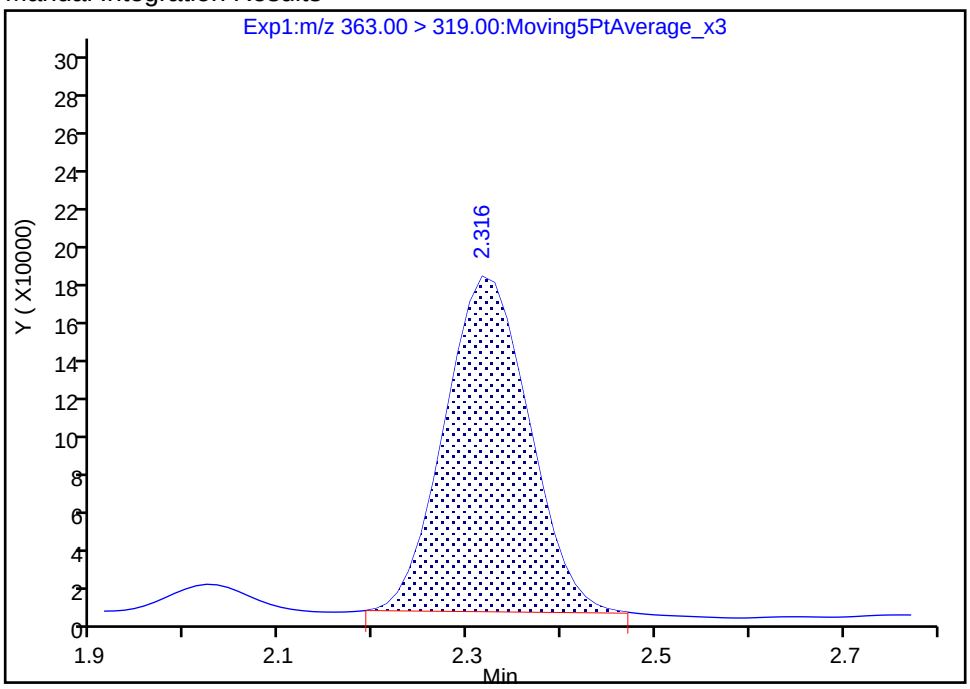
Processing Integration Results

RT: 2.32
Area: 1170591
Amount: 0.920730
Amount Units: ng/ml



Manual Integration Results

RT: 2.32
Area: 1081460
Amount: 0.850624
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:59:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

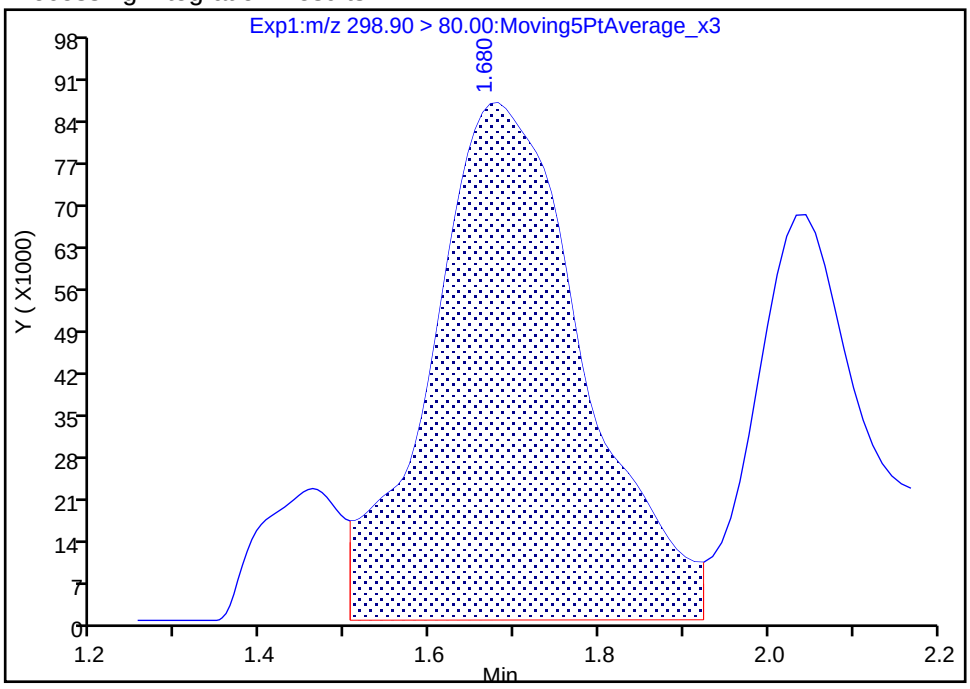
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

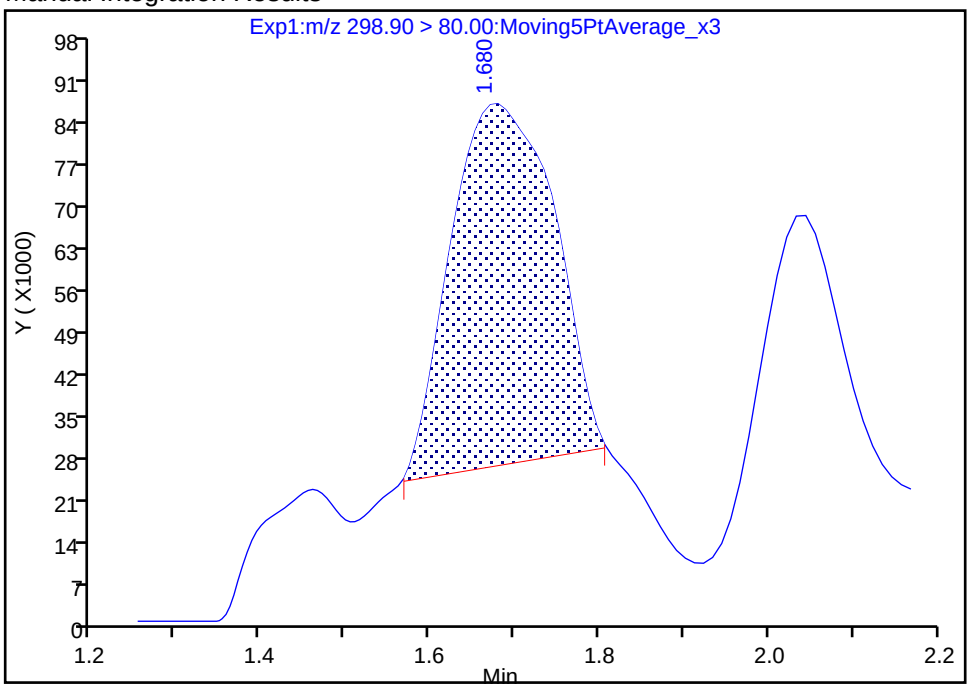
Processing Integration Results

RT: 1.68
Area: 1090156
Amount: 0.461963
Amount Units: ng/ml



Manual Integration Results

RT: 1.68
Area: 515615
Amount: 0.218496
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 10:58:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

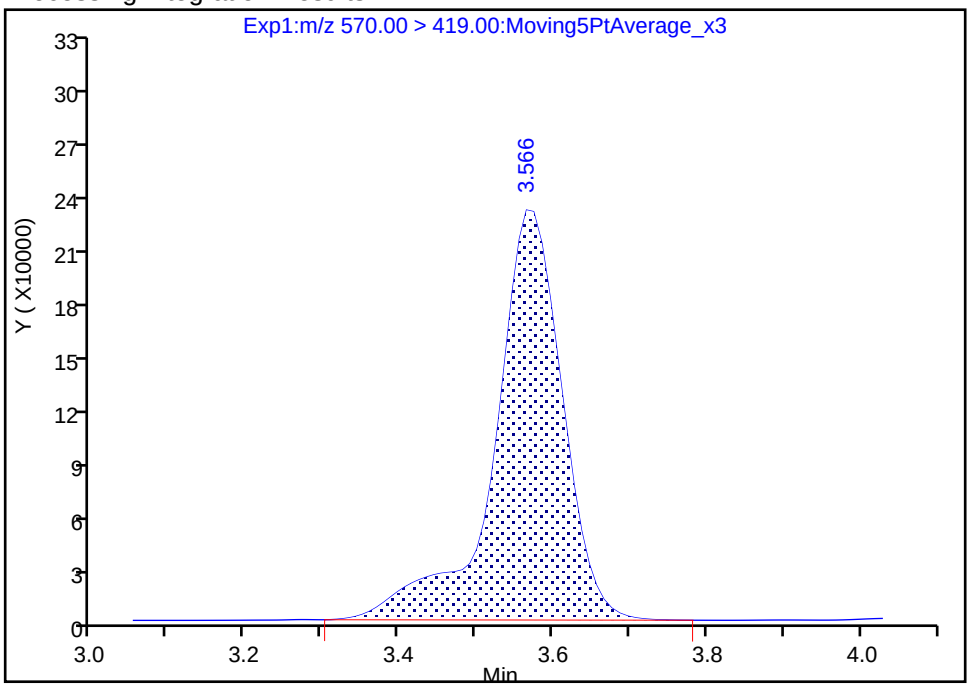
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_040.d				
Injection Date:	30-Mar-2018 18:24:19	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-A	Lab Sample ID:	320-37224-2		
Client ID:	Ash Pit				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	29	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 N-methyl perfluorooctane sulfonamidoacetic a, CAS: 2355-31-9

Signal: 1

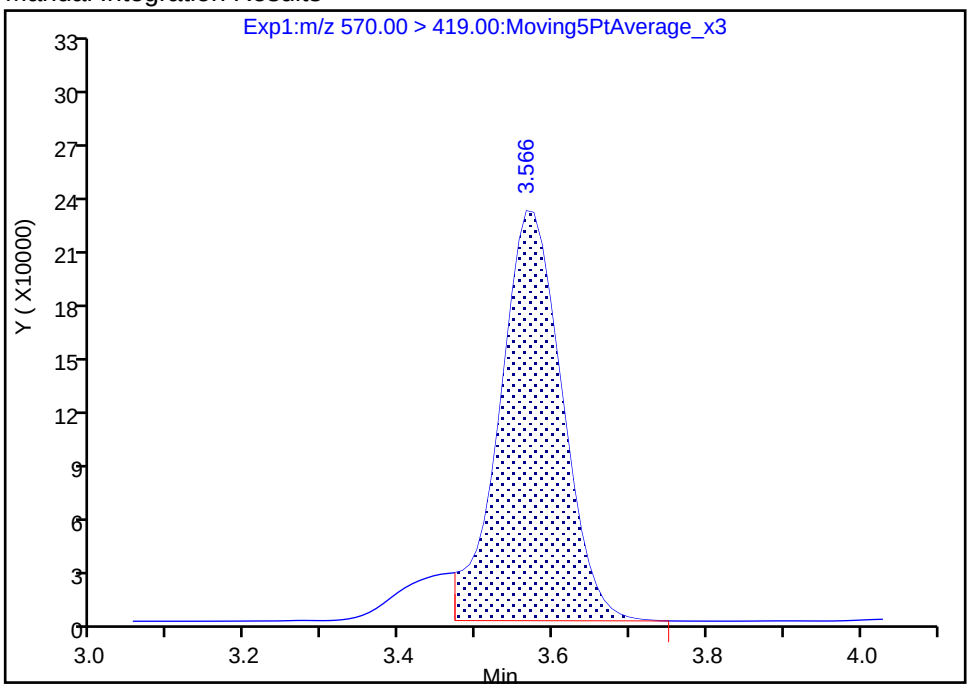
Processing Integration Results

RT: 3.57
Area: 1412917
Amount: 1.476727
Amount Units: ng/ml



Manual Integration Results

RT: 3.57
Area: 1282265
Amount: 1.340175
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:00:18

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit RE | Lab Sample ID: 320-37224-2 RE

Matrix: Solid | Lab File ID: 2018.04.06LLA_009.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 04/02/2018 14:27

Sample wt/vol: 5.04(g) | Date Analyzed: 04/06/2018 14:31

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 216698 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	*6:2FTS*	*0.00045*	*J H*	*0.0049*	*0.00036*

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2FTS	174	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_009.d
Lims ID: 320-37224-A-2-D
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 06-Apr-2018 14:31:35 ALS Bottle#: 3 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-A-2-D
Misc. Info.: Plate: 1 Rack: 5
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:26:22 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 07-Apr-2018 11:26:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.351	1.430	-0.079	0.952	1672554	1.92			31.7	M
D 1 13C4 PFBA										
217.00 > 172.00	1.419	1.430	-0.011	1.000	2355222	0.8085		32.3	9882	
D 3 13C5-PFPeA										
267.90 > 223.00	1.685	1.694	-0.009	0.560	1939641	1.02		40.9	7024	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.685	1.702	-0.017	1.000	50376	0.0542			1.9	M
D 47 13C3-PFBS										
301.90 > 83.00	1.721	1.730	-0.009	1.000	54913	1.26		54.4	36.7	
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	1.703	1.738	-0.035	0.990	151713	0.0814			14.1	RM
298.90 > 99.00	1.730	1.738	-0.008	1.005	28803		5.27(1.25-3.74)		39.3	
D 60 M2-4:2FTS										
329.00 > 81.00	2.004	1.939	0.065	1.000	26083	0.0787		0.0	8.4	
D 7 13C2 PFHxA										
315.00 > 270.00	1.960	1.971	-0.011	1.000	2501856	1.20		47.9	19667	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.982	1.981	0.001	1.011	644180	0.6290			49.3	
313.00 > 119.00	1.960	1.981	-0.021	1.000	43367		14.85(5.03-15.10)		74.5	
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	1.993	2.003	-0.010	1.000	144507	0.0859			29.3	RM
349.00 > 99.00	1.982	2.003	-0.021	0.994	30154		4.79(1.36-4.07)		62.4	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.015	2.072	-0.057	1.000	1743	0.0167		0.0	6.4	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.004	2.082	-0.078	0.994	35418	NR			15.6	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.281	2.306	-0.025	1.000	369358	0.3276			47.9	M
363.00 > 169.00	2.281	2.306	-0.025	1.000	161207		2.29(1.13-3.40)		459	
D 9 13C4-PFHpA										
367.00 > 322.00	2.281	2.308	-0.027	1.000	2594223	1.29		51.6	18022	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.295	2.319	-0.025	1.000	984347	0.5476			173	
399.00 > 99.00	2.295	2.319	-0.025	1.000	290510		3.39(1.50-4.49)		237	
D 11 18O2 PFHxS										
403.00 > 84.00	2.295	2.321	-0.027	1.000	3805973	1.52		64.2	13516	
D 12 M2-6:2FTS										
429.00 > 81.00	2.612	2.629	-0.017	1.000	1916464	4.13		174	994	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.612	2.636	-0.024	1.000	138689	0.0920			661	
* 62 13C2-PFOA										
415.00 > 370.00	2.636	2.660	-0.024		5270164	2.50			64282	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.636	2.660	-0.024	1.000	2382259	1.70			289	
413.00 > 169.00	2.636	2.660	-0.024	1.000	1189460		2.00(0.84-2.52)		2820	
D 14 13C4 PFOA										
417.00 > 372.00	2.636	2.660	-0.024	1.000	2956070	1.50		59.8	34997	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.645	2.667	-0.022	1.000	73622	0.0440			37.8	
449.00 > 99.00	2.645	2.667	-0.022	1.000	14098		5.22(1.94-5.82)		34.9	
D 18 13C4 PFOS										
503.00 > 80.00	3.001	3.021	-0.020	1.000	2999367	1.72		72.1	3434	
D 19 13C5 PFNA										
468.00 > 423.00	3.008	3.028	-0.020	1.000	2893314	1.73		69.2	44471	
20 Perfluorononanoic acid										
463.00 > 419.00	3.001	3.030	-0.029	0.998	1023535	0.8595			465	
463.00 > 169.00	3.001	3.030	-0.029	0.998	246280		4.16(1.90-5.69)		2329	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.001	3.030	-0.029	1.000	6819739	4.76			2045	M
499.00 > 99.00	3.001	3.030	-0.029	1.000	1532110		4.45(2.31-6.93)		13979	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.356	0.001	1.000	3178883	1.29		51.7	35398	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.368	-0.011	1.000	207588	0.1653			211	
D 26 M2-8:2FTS										
529.00 > 81.00	3.357	3.374	-0.017	1.000	3350764	6.20		259	3139	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.357	3.378	-0.021	1.000	281995	0.1494			3916	
D 23 13C2 PFDA										
515.00 > 470.00	3.366	3.384	-0.018	1.000	2901327	2.05		82.2	70109	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.366	3.387	-0.021	1.000	2816666	2.45			2127	
513.00 > 169.00	3.366	3.387	-0.021	1.000	469870		5.99(2.36-7.09)		9978	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.516	3.542	-0.026	1.000	1539109	2.04		81.5	5971	
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.525	3.546	-0.021	1.003	1129655	1.74			663	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.684	3.711	-0.027	1.000	1594925	2.01		80.5	4797	
33 N-ethyl perfluorooctane sulfonamid										M
584.00 > 419.00	3.694	3.717	-0.023	1.003	113088	0.1933			441	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.694	3.717	-0.023	1.000	692689	0.8484			691	
563.00 > 169.00	3.694	3.717	-0.023	1.000	157013		4.41(2.12-6.36)		2175	
D 30 13C2 PFUnA										
565.00 > 520.00	3.694	3.722	-0.028	1.000	2544095	2.21		88.3	40886	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.985	4.007	-0.022	1.000	1240804	1.10			468	
613.00 > 169.00	3.985	4.007	-0.022	1.000	311305		3.99(2.13-6.40)		2211	
D 36 13C2 PFDoA										
615.00 > 570.00	3.985	4.011	-0.026	1.000	2618210	2.04		81.6	24130	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.249	4.270	-0.021	1.000	342936	0.2833			154	
663.00 > 169.00	4.239	4.270	-0.031	0.998	105157		3.26(1.25-3.76)		484	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.478	4.511	-0.033	1.000	126344	0.4896			802	
713.00 > 219.00	4.478	4.511	-0.033	1.000	95197		1.33(0.71-2.13)		436	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.478	4.513	-0.035	1.000	2583216	1.58		63.4	15126	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.895	4.922	-0.027	1.000	294464	0.1895			78.7	
813.00 > 169.00	4.895	4.922	-0.027	1.000	44963		6.55(2.86-8.58)		157	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.895	4.933	-0.038	1.000	3686630	1.46		58.6	8127	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.239	5.277	-0.038	1.000	80322	0.0549			27.7	
913.00 > 169.00	5.239	5.277	-0.038	1.000	9391		8.55(3.83-11.48)		42.4	M

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:26:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_009.d

Injection Date: 06-Apr-2018 14:31:35 Instrument ID: A8_N

Lims ID: 320-37224-A-2-D Lab Sample ID: 320-37224-2

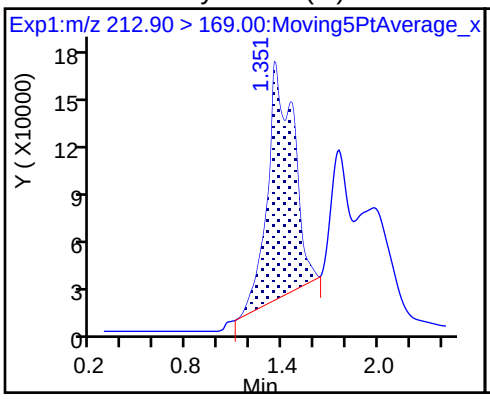
Client ID: Ash Pit

Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 7

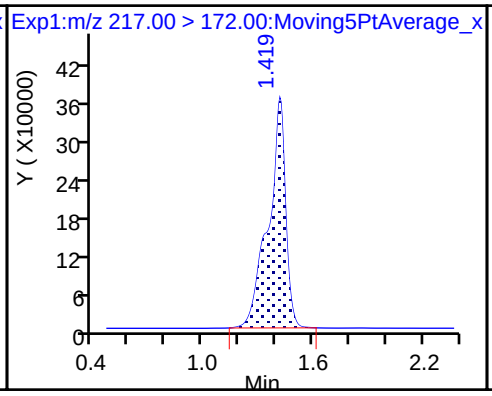
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

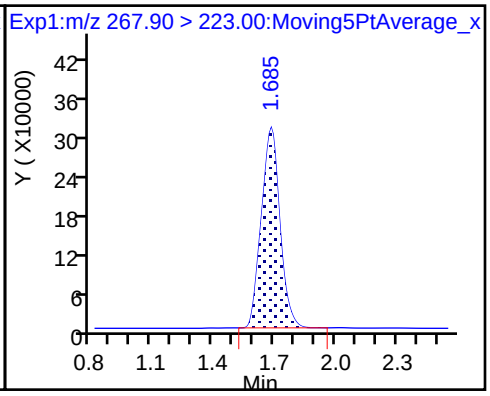
2 Perfluorobutyric acid (M)



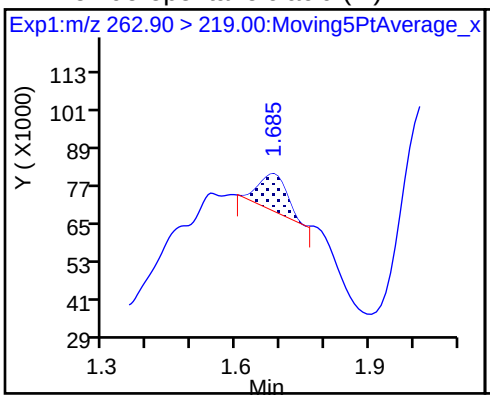
D 1 13C4 PFBA



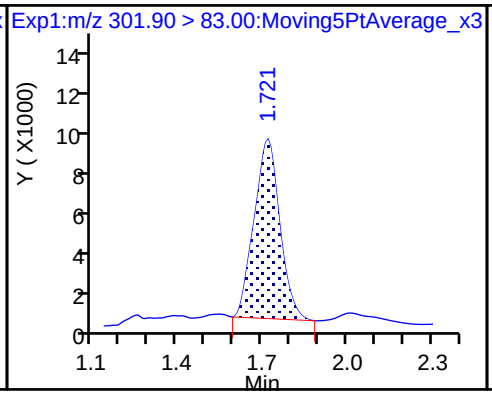
D 3 13C5-PFPeA



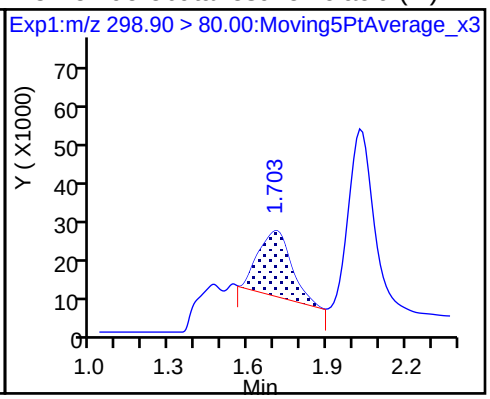
4 Perfluoropentanoic acid (M)



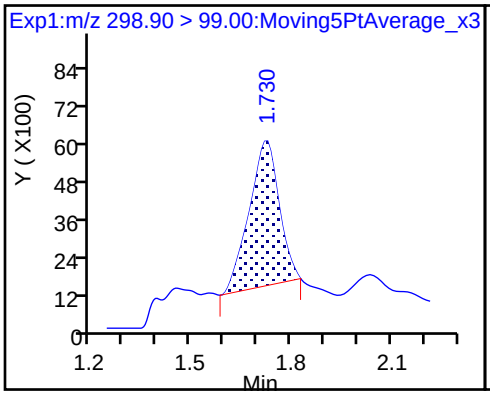
D 47 13C3-PFBS



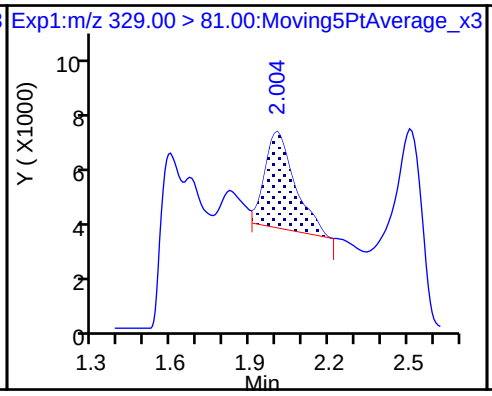
5 Perfluorobutanesulfonic acid (M)



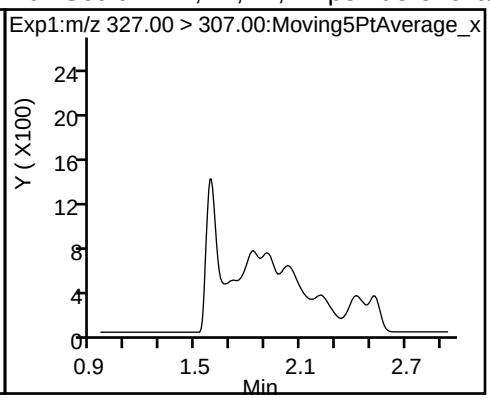
5 Perfluorobutanesulfonic acid



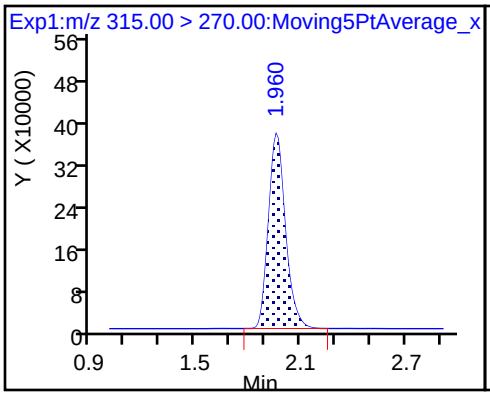
D 60 M2-4:2FTS



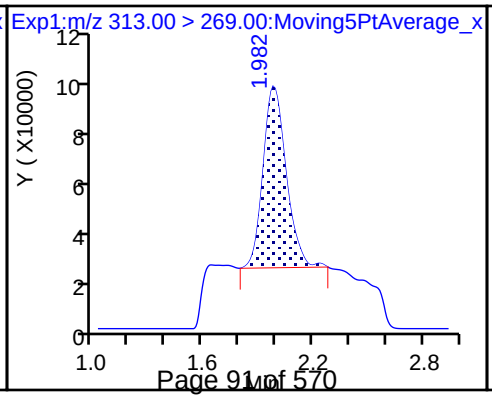
61 Sodium 1H,1H,2H,2H-perfluorohexane (ND)



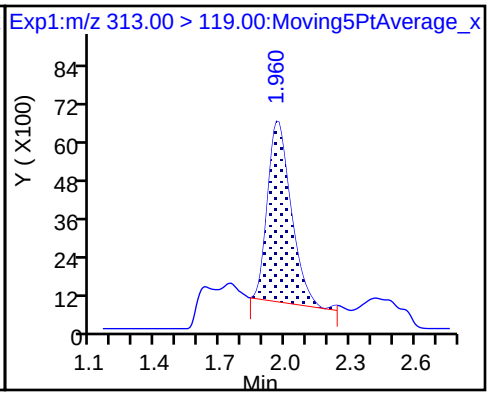
D 7 13C2 PFHxA



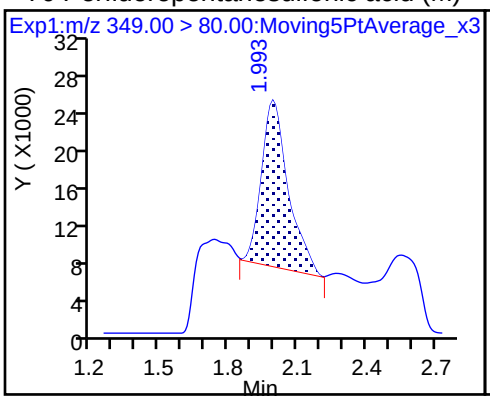
6 Perfluorohexanoic acid



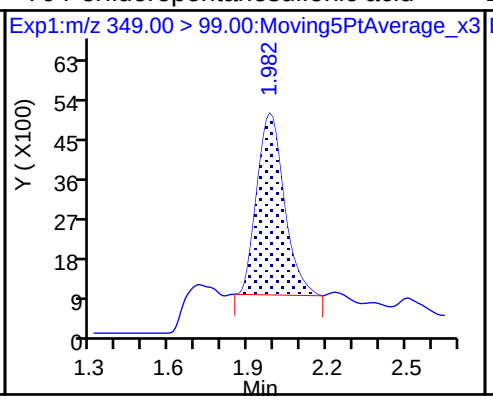
6 Perfluorohexanoic acid



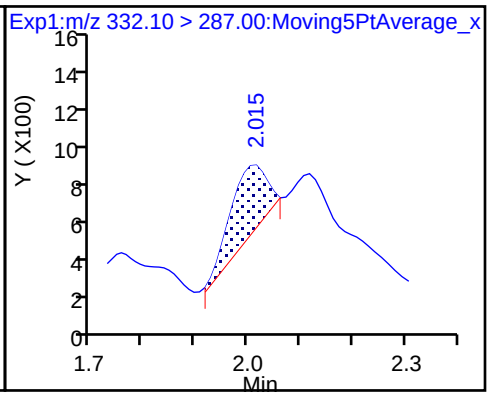
70 Perfluoropentanesulfonic acid (M)



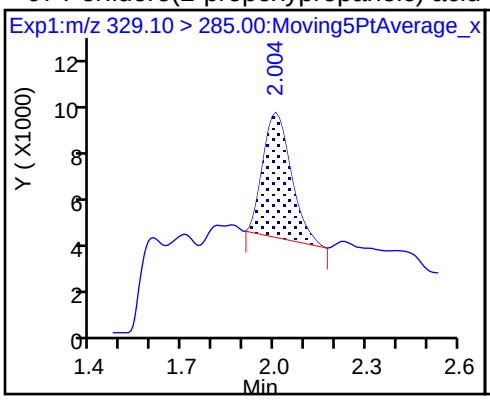
70 Perfluoropentanesulfonic acid



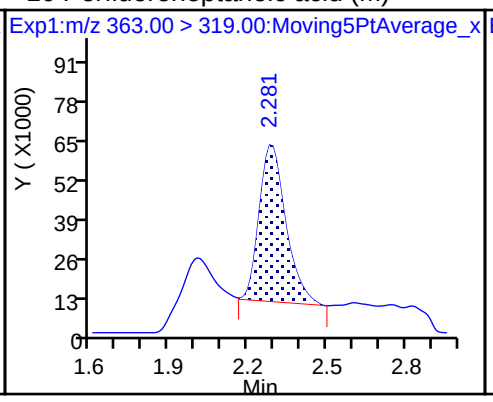
D 64 13C3 HFPO-DA



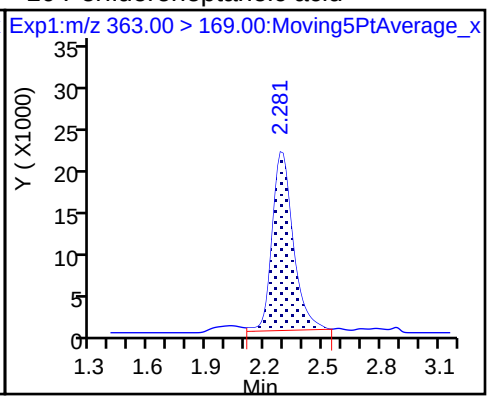
67 Perfluoro(2-propoxypropanoic) acid



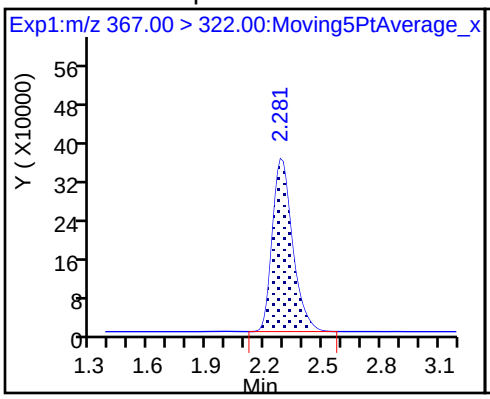
10 Perfluoroheptanoic acid (M)



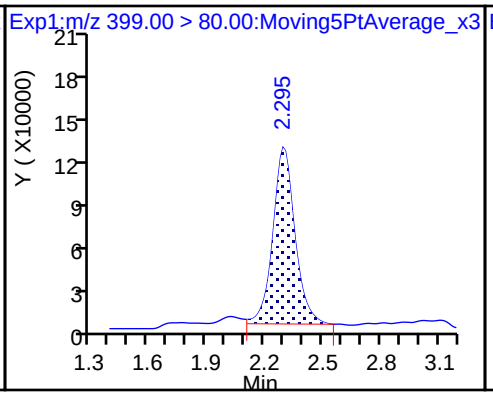
10 Perfluoroheptanoic acid



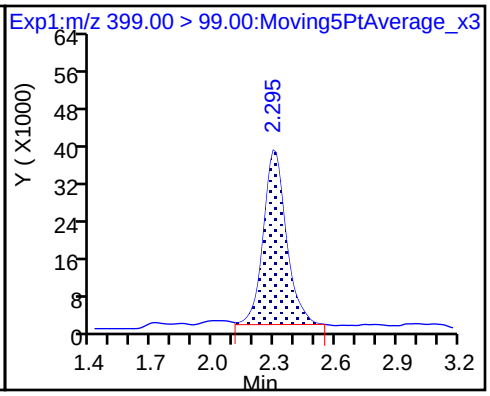
D 9 13C4-PFHpA



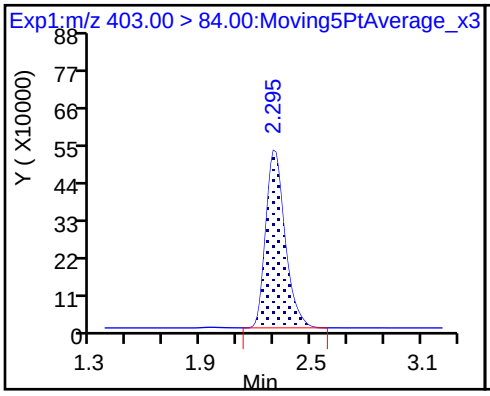
8 Perfluorohexanesulfonic acid



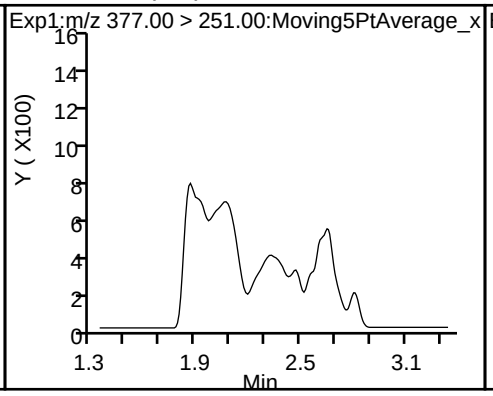
8 Perfluorohexanesulfonic acid



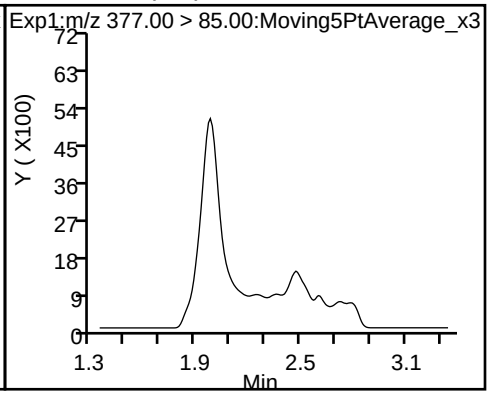
D 11 18O2 PFHxS



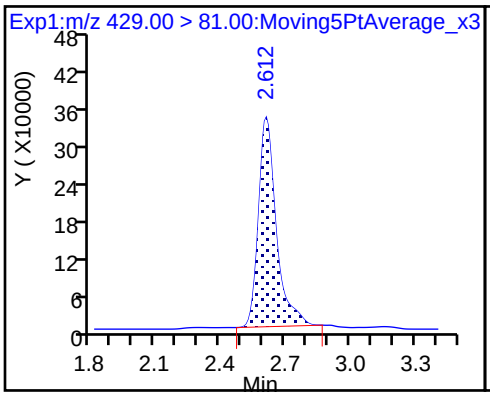
65 Adona (ND)



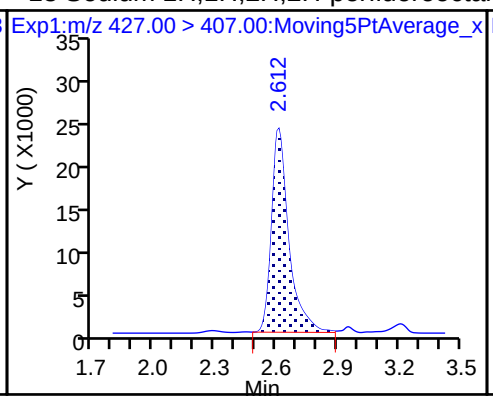
65 Adona (ND)



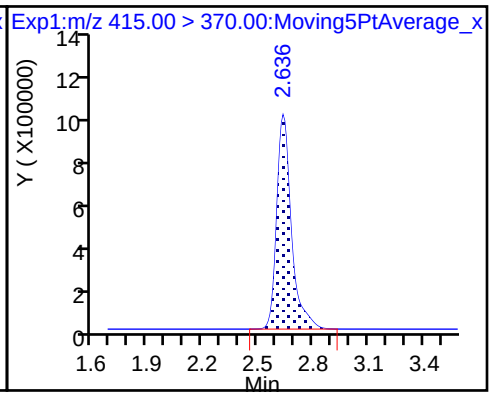
D 12 M2-6:2FTS



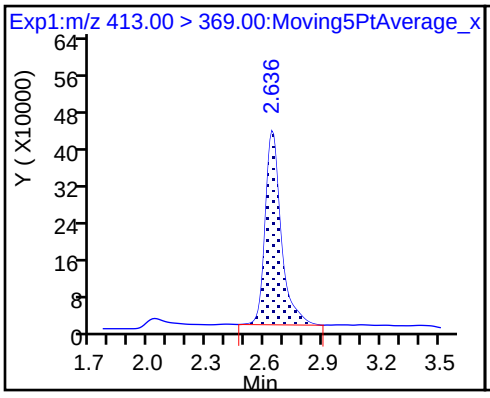
13 Sodium 1H,1H,2H,2H-perfluorooctane



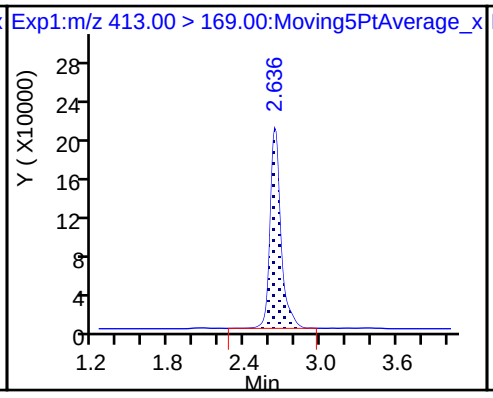
* 62 13C2-PFOA



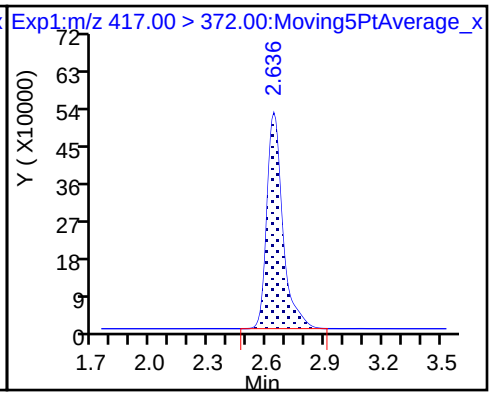
15 Perfluorooctanoic acid



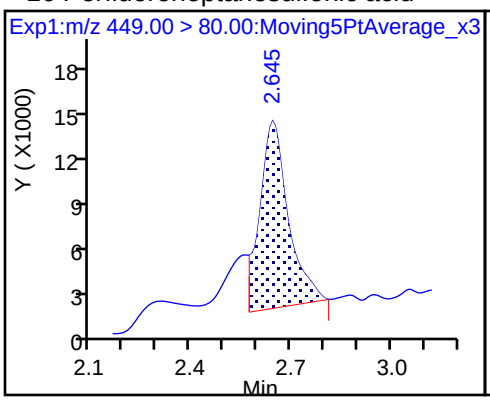
15 Perfluorooctanoic acid



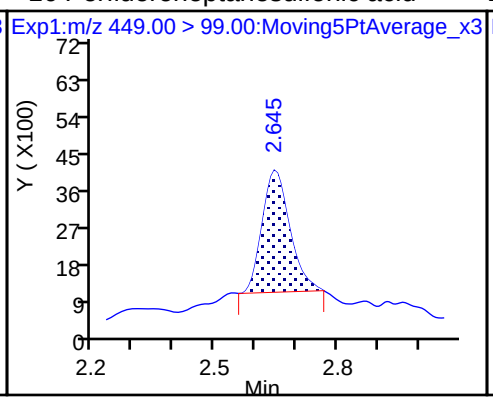
D 14 13C4 PFOA



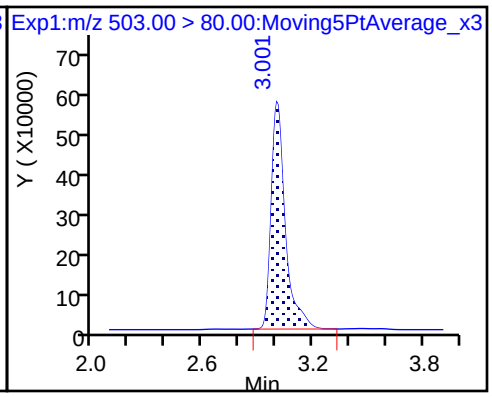
16 Perfluoroheptanesulfonic acid



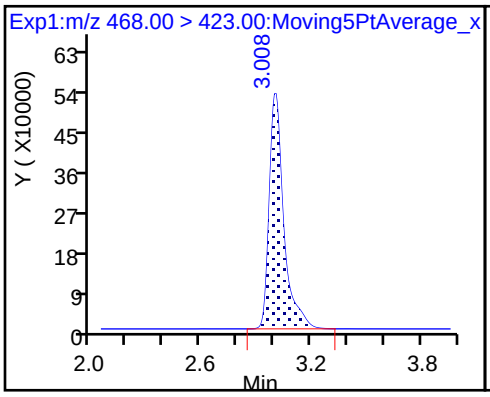
16 Perfluoroheptanesulfonic acid



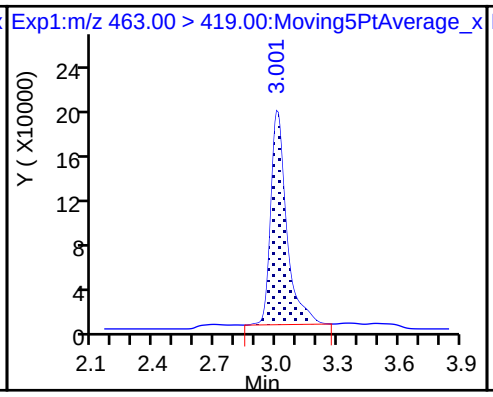
D 18 13C4 PFOS



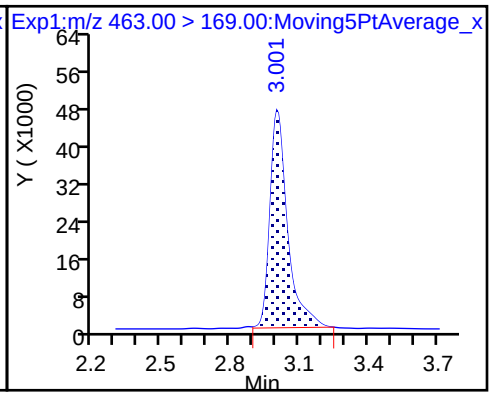
D 19 13C5 PFNA



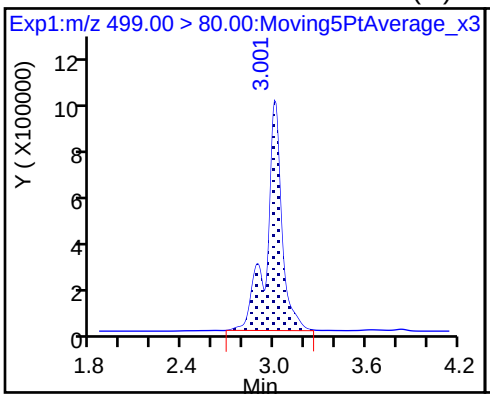
20 Perfluorononanoic acid



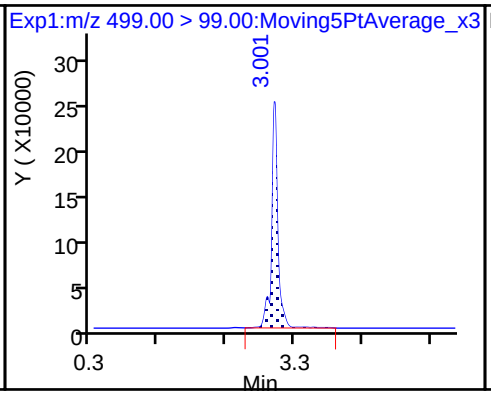
20 Perfluorononanoic acid



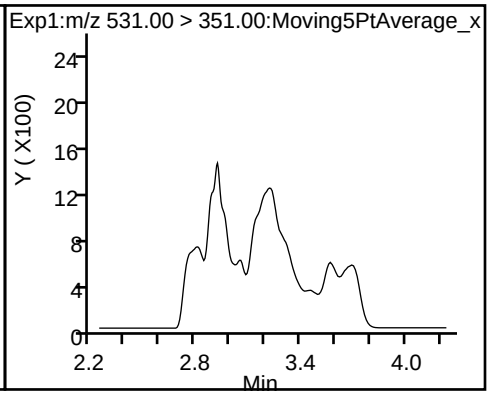
17 Perfluorooctane sulfonic acid (M)



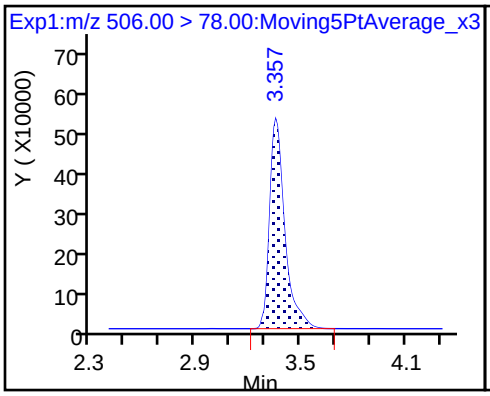
17 Perfluorooctane sulfonic acid



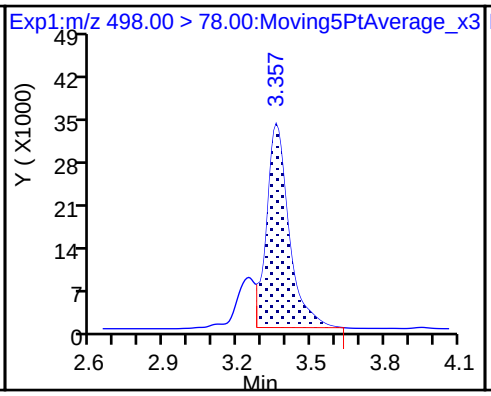
69 9-Chlorohexadecafluoro-3-oxanonane (ND)



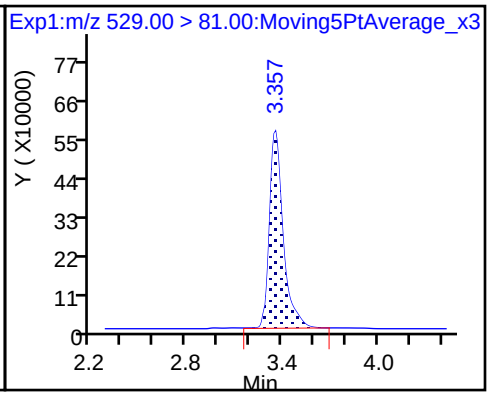
D 21 13C8 FOSA



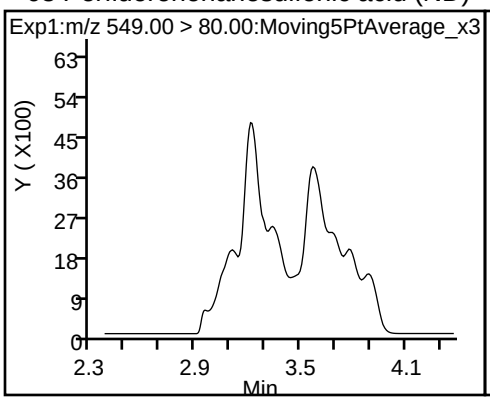
22 Perfluorooctane Sulfonamide



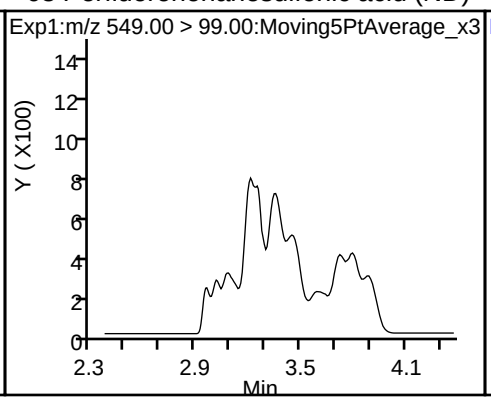
D 26 M2-8:2FTS



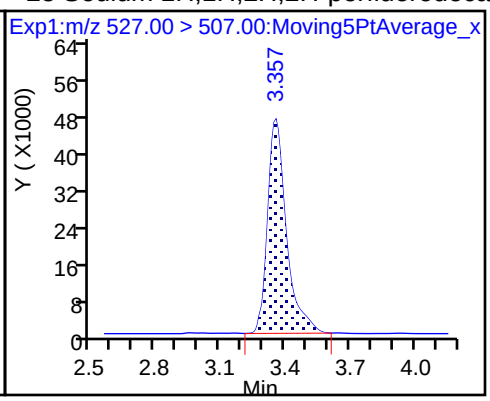
68 Perfluorononanesulfonic acid (ND)



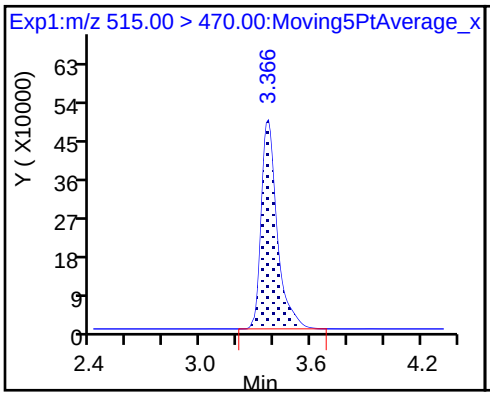
68 Perfluorononanesulfonic acid (ND)



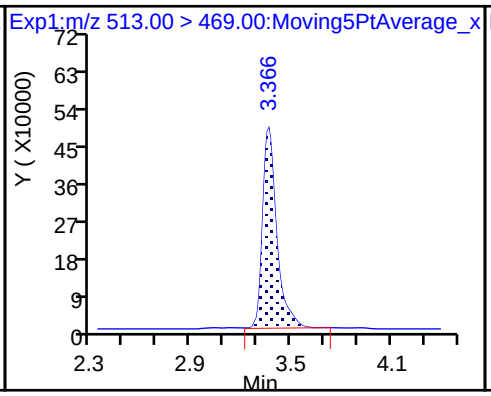
25 Sodium 1H,1H,2H,2H-perfluorodecane



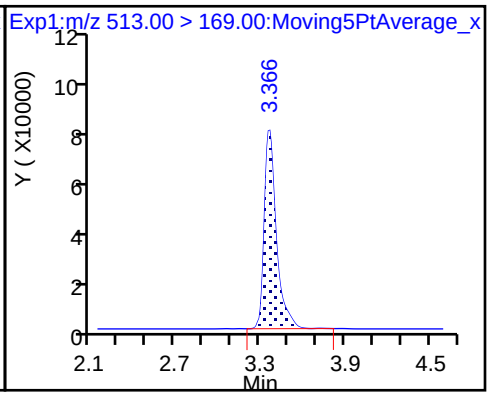
D 23 13C2 PFDA



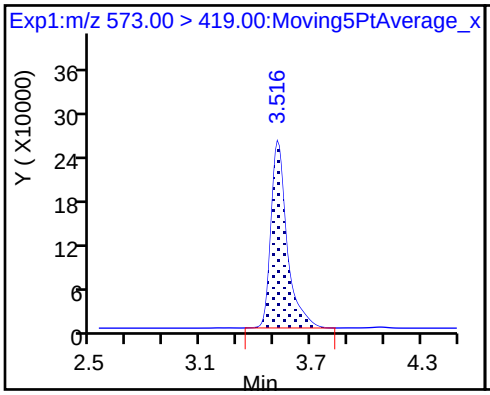
24 Perfluorodecanoic acid



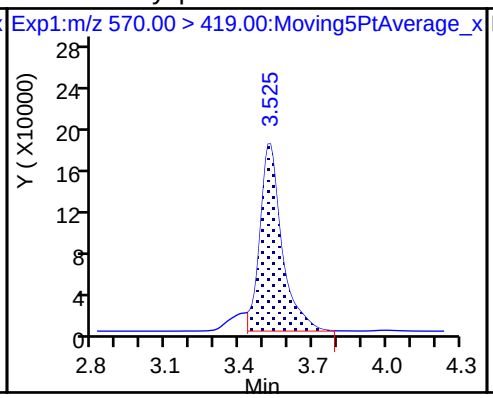
24 Perfluorodecanoic acid



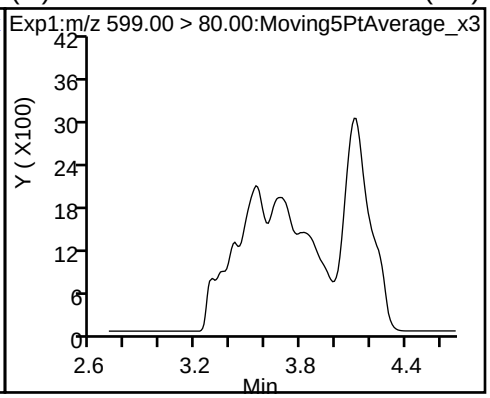
D 27 d3-NMeFOSAA



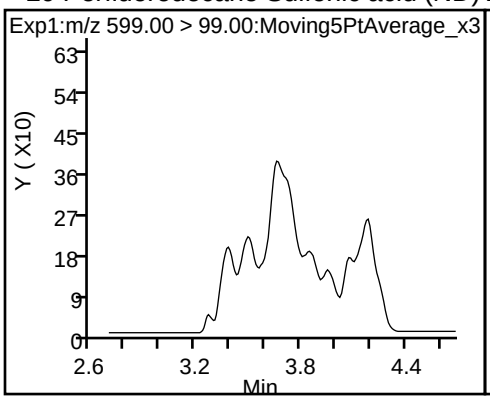
28 N-methyl perfluorooctane sulfonami (M)



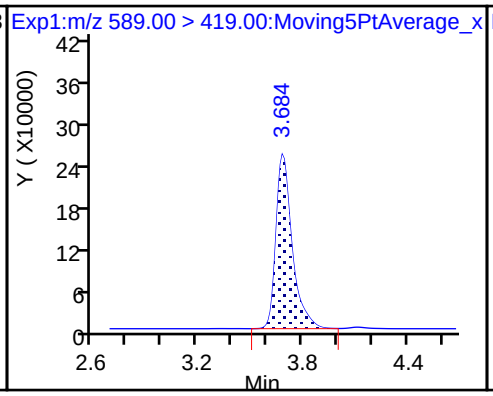
29 Perfluorodecane Sulfonic acid (ND)



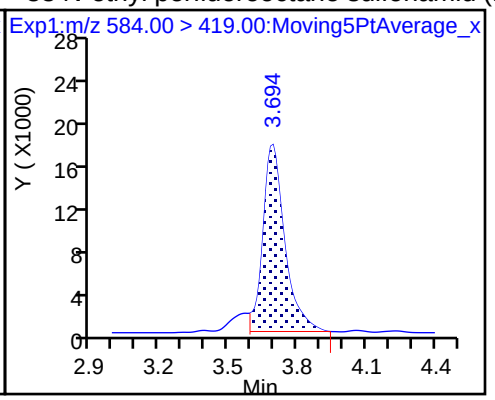
29 Perfluorodecane Sulfonic acid (ND)



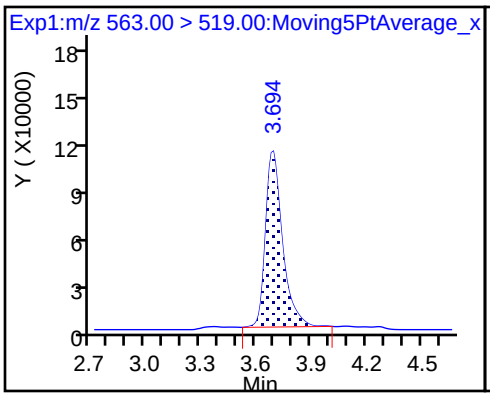
D 32 d5-NEtFOSAA



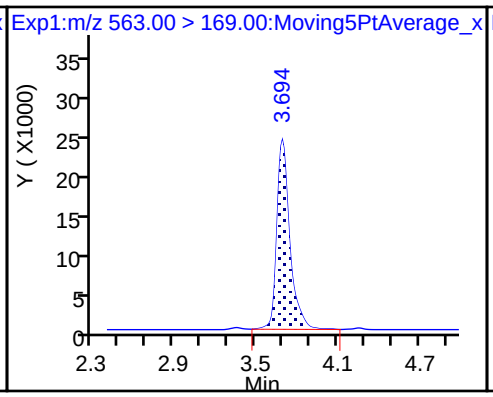
33 N-ethyl perfluorooctane sulfonamid (M)



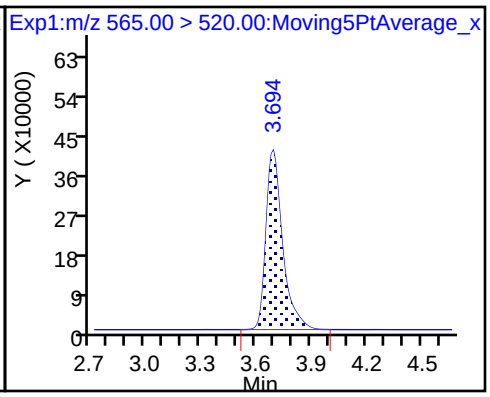
31 Perfluoroundecanoic acid



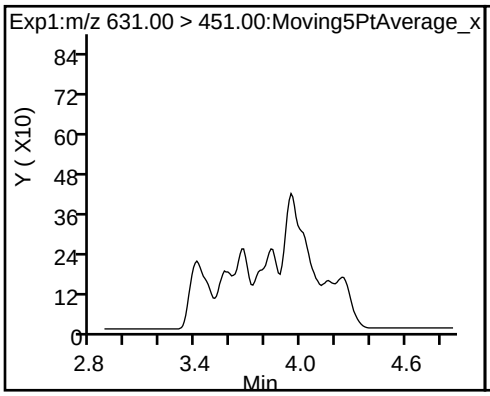
31 Perfluoroundecanoic acid



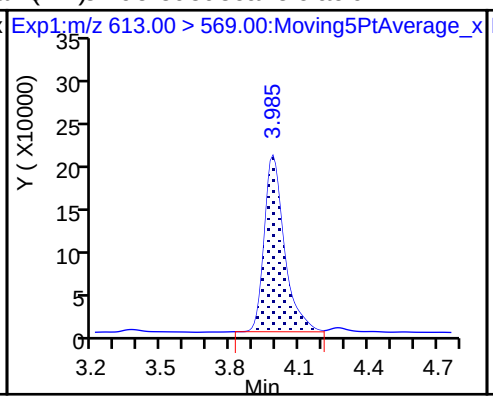
D 30 13C2 PFUnA



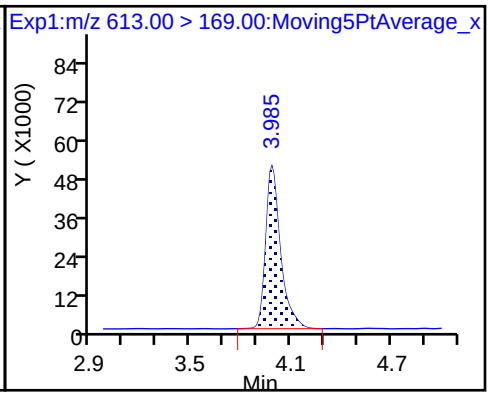
66 11-Chloroeicosafluoro-3-oxaundecan (ND)



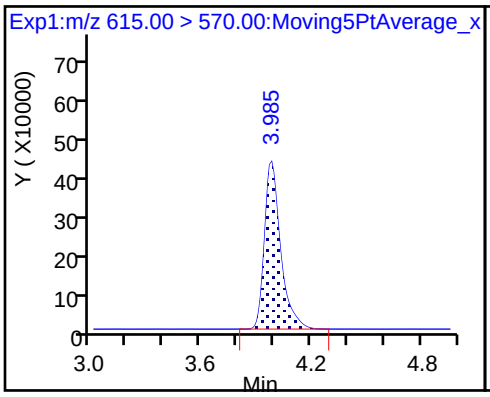
37 Perfluorododecanoic acid



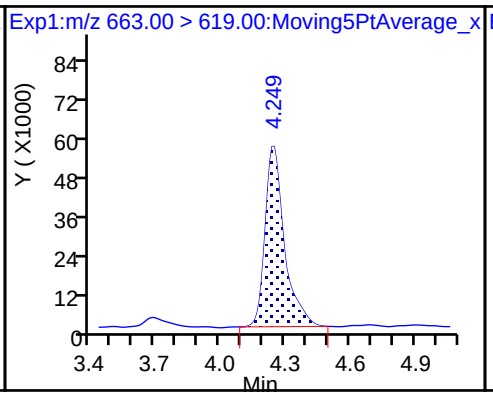
37 Perfluorododecanoic acid



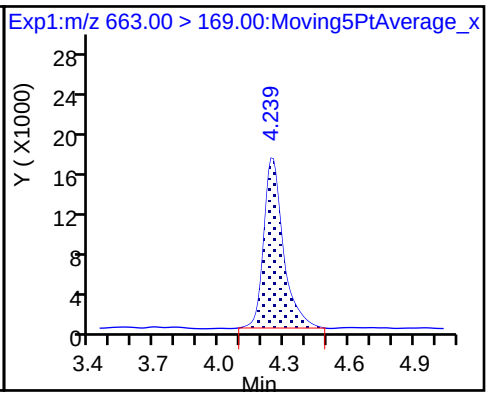
D 36 13C2 PFDoA



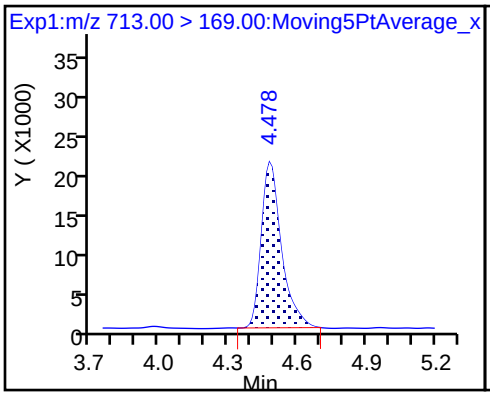
41 Perfluorotridecanoic acid



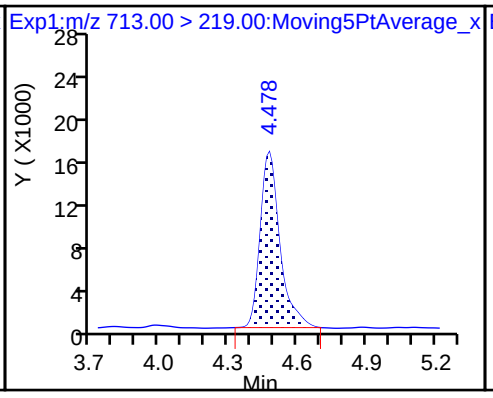
41 Perfluorotridecanoic acid



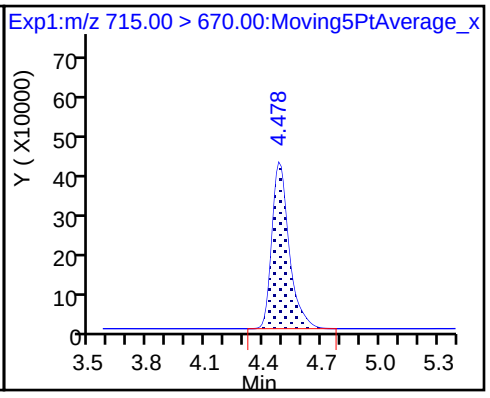
42 Perfluorotetradecanoic acid



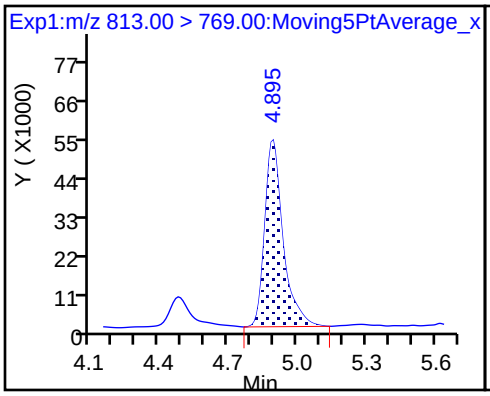
42 Perfluorotetradecanoic acid



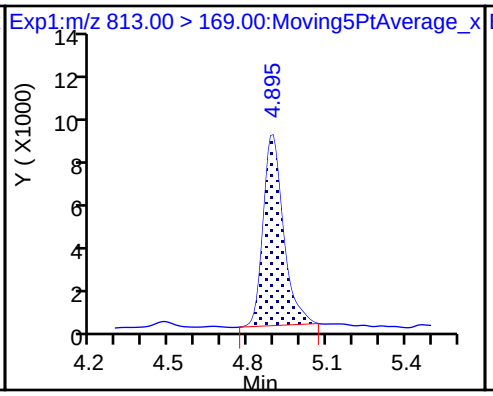
D 43 13C2-PFTeDA



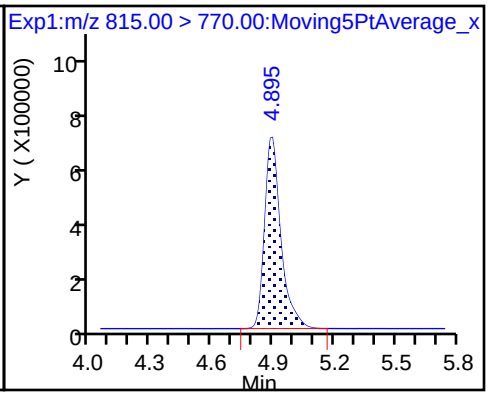
45 Perfluorohexadecanoic acid



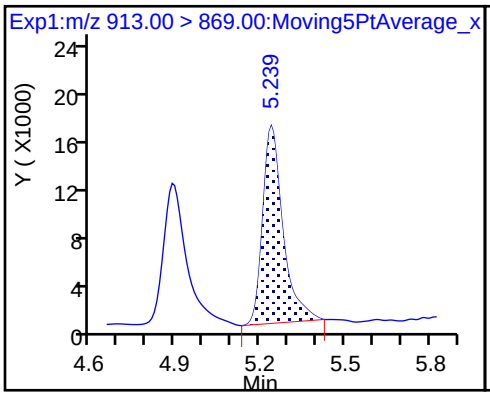
45 Perfluorohexadecanoic acid



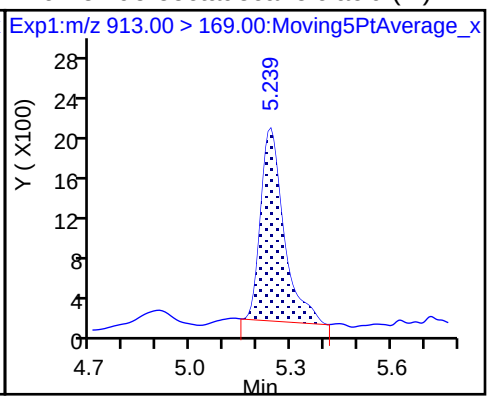
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid (M)



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-214175/2	2018.03.21LLICALAX_002.d
Level 2	IC 320-214175/3	2018.03.21LLICALAX_003.d
Level 3	IC 320-214175/4	2018.03.21LLICALAX_004.d
Level 4	IC 320-214175/5	2018.03.21LLICALAX_005.d
Level 5	IC 320-214175/6	2018.03.21LLICALAX_006.d
Level 6	IC 320-214175/7	2018.03.21LLICALAX_007.d
Level 7	IC 320-214175/8	2018.03.21LLICALAX_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.9770 0.9654	0.9782 0.9163	0.9137	0.9039	0.9410	AveID		0.9422				3.4		35.0			
Perfluoropentanoic acid (PFPeA)	1.0398 1.1898	1.1118 1.1431	1.1414	1.1024	1.1643	AveID		1.1275				4.3		35.0			
Perfluorobutanesulfonic acid (PFBS)	77.286 78.553	78.814 75.366	76.480	76.225	81.199	AveID		77.703				2.5		50.0			
4:2 FTS	16.804 16.788	16.170 15.667	16.310	15.390	15.941	AveID		16.153				3.3		50.0			
Perfluorohexanoic acid (PFHxA)	1.0196 1.0524	1.0518 1.0118	1.0085	0.9645	1.0478	AveID		1.0223				3.1		35.0			
Perfluoroheptanoic acid (PFHpA)	0.9689 1.0612	1.0927 1.0383	0.9816	0.9771	1.1215	AveID		1.0345				5.9		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3404 1.1223	1.1639 1.0409	1.0385	1.0319	1.0535	AveID		1.1130				10.1		35.0			
6:2FTS	1.5576 1.7957	1.8911 1.7717	1.7412	1.6933	1.7547	AveID		1.7436				5.9		35.0			
Perfluorooctanoic acid (PFOA)	1.2278 1.1265	1.2535 1.0919	1.0964	1.0565	1.0550	AveID		1.1297				7.1		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.3002 1.3237	1.2934 1.2343	1.2772	1.2479	1.2922	AveID		1.2813				2.4		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.1788 1.1274	1.0854 1.1317	1.0974	1.0467	1.1303	AveID		1.1139				3.8		35.0			
Perfluorononanoic acid (PFNA)	0.9610 1.0030	0.9765 1.0457	0.9865	0.9543	1.0556	AveID		0.9975				4.0		35.0			
Perfluorooctane Sulfonamide (FOSA)	1.0217 1.0333	0.9663 0.9452	0.9546	0.9908	0.9888	AveID		0.9858				3.4		35.0			
8:2FTS	1.3252 1.2619	1.1418 1.3311	1.2543	1.2466	1.3731	AveID		1.2763				5.9		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorodecanoic acid (PFDA)	1.0098 1.0266	0.8873 0.9840	1.0025	0.9567	1.0497	AveID		0.9881				5.4		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.8624 1.0715	0.9123 1.0518	1.0465	0.9523	1.1088	AveID		1.0008				9.2		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6016 0.7415	0.6694 0.7211	0.6530	0.6412	0.7322	AveID		0.6800				7.8		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.9224 0.9962	0.8646 0.9417	0.9112	0.8903	1.0134	AveID		0.9342				5.8		35.0			
Perfluoroundecanoic acid (PFUnA)	0.9695 0.8449	0.8967 0.9028	0.7661	0.8243	0.8309	AveID		0.8622				7.7		35.0			
Perfluorododecanoic acid (PFDoA)	1.0503 1.1100	1.0998 1.0309	1.0210	0.9776	1.0349	AveID		1.0464				4.4		35.0			
Perfluorotridecanoic Acid (PFTriA)	1.0242 1.2189	1.0806 1.0484	1.0979	1.1164	1.1188	AveID		1.1007				5.7		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2400 0.2554	0.2594 0.2499	0.2475	0.2303	0.2521	AveID		0.2478				4.0		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7892 0.9151	1.3570 0.8645	0.9897	0.9038	0.9928	L2ID	0.0221	0.9088							0.9980		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.9497 0.9330	0.9448 0.8894	0.9065	0.8854	0.9637	AveID		0.9246				3.3		50.0			
13C4 PFBA	1.2518 1.2929	1.2583 1.3406	1.2790	1.2572	1.1820	Ave		1.2660				3.8		50.0			
13C5 PFPeA	0.8327 0.8439	0.8366 0.8891	0.8605	0.8349	0.7813	Ave		0.8399				3.9		50.0			
13C3-PFBS	0.0186 0.0196	0.0192 0.0199	0.0198	0.0192	0.0180	Ave		0.0192				3.4		50.0			
M2-4:2FTS	0.1314 0.1321	0.1400 0.1255	0.1372	0.1358	0.1246	Ave		0.1324				4.4		50.0			
13C2 PFHxA	0.9295 0.9198	0.9713 0.9356	0.9418	0.9249	0.8788	Ave		0.9288				3.0		50.0			
13C4-PFHpA	0.9506 0.9047	0.8936 0.9073	0.9677	0.9239	0.8667	Ave		0.9164				3.7		50.0			
18O2 PFHxS	1.1127 1.0890	1.1664 1.1449	1.1850	1.1305	1.0840	Ave		1.1303				3.4		50.0			
M2-6:2FTS	0.1884 0.1805	0.1973 0.1957	0.1922	0.1932	0.1826	Ave		0.1900				3.4		50.0			
13C4 PFOA	0.9424 0.9146	0.9504 0.9162	0.9605	0.9718	0.9058	Ave		0.9374				2.7		50.0			
13C4 PFOS	0.8084 0.8115	0.8346 0.8334	0.8459	0.8297	0.7939	Ave		0.8225				2.2		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C5 PFNA	0.8159 0.8363	0.8387 0.8194	0.8535	0.8423	0.7801	Ave		0.8266				2.9		50.0			
13C8 FOSA	1.0958 1.1026	1.0947 1.0892	1.1838	1.1159	1.0823	Ave		1.1092				3.1		50.0			
M2-8:2FTS	0.2677 0.2568	0.2739 0.2387	0.2803	0.2476	0.2307	Ave		0.2565				7.2		50.0			
13C2 PFDA	0.7397 0.7226	0.7599 0.7138	0.7506	0.7132	0.6715	Ave		0.7245				4.1		50.0			
d3-NMeFOSAA	0.3775 0.3991	0.3624 0.3991	0.4007	0.3777	0.3530	Ave		0.3814				5.0		50.0			
d5-NEtFOSAA	0.4563 0.4090	0.4567 0.4048	0.4709	0.4518	0.3919	Ave		0.4345				7.2		50.0			
13C2 PFUnA	0.6503 0.6562	0.6561 0.6125	0.7132	0.6358	0.6130	Ave		0.6482				5.3		50.0			
13C2 PFDoA	0.7369 0.7139	0.7087 0.7752	0.7608	0.7433	0.7097	Ave		0.7355				3.6		50.0			
13C2-PFTeDA	0.9180 0.8827	0.8229 0.9495	0.9129	0.9482	0.8540	Ave		0.8983				5.3		50.0			
13C2-PFHxDA	1.4911 1.5654	1.2829 1.5109	1.5999	1.5088	1.3493	Ave		1.4726				7.8		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-214175/2	2018.03.21LLICALAX_002.d
Level 2	IC 320-214175/3	2018.03.21LLICALAX_003.d
Level 3	IC 320-214175/4	2018.03.21LLICALAX_004.d
Level 4	IC 320-214175/5	2018.03.21LLICALAX_005.d
Level 5	IC 320-214175/6	2018.03.21LLICALAX_006.d
Level 6	IC 320-214175/7	2018.03.21LLICALAX_007.d
Level 7	IC 320-214175/8	2018.03.21LLICALAX_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	64128 12506996	131334 22360079	612393	2414180	5823834	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	45401 10061856	99242 18500324	514727	1955236	4762694	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	66644 13614957	142407 24100878	700112	2745542	6781882	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	15310 3074271	30869 5293270	157752	585674	1406742	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	49694 9699799	109004 17232401	497709	1895160	4820853	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	48297 9620973	104181 17149506	497784	1917800	5088526	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	71171 11144344	131804 19742275	586824	2255246	5440694	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
6:2FTS		AveID	14587 3079977	37735 5982174	166250	658727	1590173	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	60671 10325028	127108 18212815	551855	2181038	5003450	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	52467 10247281	109652 17826274	539007	2094073	5113485	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	46371 8507880	89694 15932478	451427	1712110	4360129	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	41117 8405623	87380 15598692	441188	1707633	4311504	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorooctane Sulfonamide (FOSA)		AveID	58708 11417156	112857 18741888	592188	2348890	5602803	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
8:2FTS		AveID	17824 3110907	31966 5541846	176483	628171	1588740	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	39168 7434177	71937 12786299	394276	1449524	3690292	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	17070 4285891	35274 7642171	219720	764025	2049489	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	24583 5812987	57466 10545265	279040	1089522	2934010	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	22073 4082815	42131 6938724	224858	854457	2079318	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroundecanoic acid (PFUnA)		AveID	33058 5555779	62776 10065814	286311	1113457	2666750	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorododecanoic acid (PFDoA)		AveID	40586 7940975	83165 14548343	407079	1543700	3845398	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	39576 8719608	81708 14795343	437729	1762916	4156865	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	11552 2258774	22776 4319552	118401	463840	1127193	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	139895 14354924	185745 23776796	829775	2896964	7013285	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	74253 14635504	129317 24460507	760025	2837993	6807875	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	6564034 6477851	6712910 6100844	6702182	6677108	6188661	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	4366350 4228437	4463093 4046135	4509425	4434133	4090438	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	90718 91170	95045 84106	96305	94733	87868	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	643318 618185	697680 533647	671337	673891	609343	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4874041 4608558	5181558 4257747	4935175	4912134	4600880	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4-PFHpA	13PFOA	Ave	4984623 4533044	4767222 4129064	5071076	4906862	4537445	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PFOA	Ave	5519750 5161589	5886251 4928998	5874354	5679886	5368855	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PFOA	Ave	938472 859398	999800 845912	956838	974611	908164	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PFOA	Ave	4941609 4582778	5069957 4169807	5033130	5161114	4742395	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PFOA	Ave	4052357 3887079	4256604 3625826	4237867	4212796	3973858	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PFOA	Ave	4278627 4190429	4474026 3729104	4472333	4473666	4084349	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PFOA	Ave	5746202 5524474	5839734 4957065	6203337	5926892	5666432	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 214175

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 18:24 Calibration End Date: 03/21/2018 19:11 Calibration ID: 38241

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
M2-8:2FTS	13PF OA	Ave	1345013 1232595	1399775 1040808	1407067	1259787	1157021	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3878963 3620699	4053733 3248595	3933118	3787833	3515629	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1979468 1999896	1933236 1816501	2099631	2005802	1848322	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	2392883 2049207	2436559 1842170	2467789	2399407	2051910	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	3409956 3287781	3500228 2787354	3737470	3376806	3209638	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	3864207 3576857	3780852 3528118	3986883	3947765	3715622	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	4813878 4422729	4389855 4321269	4783571	5036200	4471429	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	7818840 7843306	6843963 6875940	8384119	8013194	7064103	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Mar-2018 18:24:14 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:19 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:00:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.447	1.447	0.0	0.536	6564034	2.47		98.9	83431	
2 Perfluorobutyric acid										
212.90 > 169.00	1.447	1.449	-0.002	1.000	64128	0.0259		104	24.7	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.634	4366350	2.48		99.1	93154	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	45401	0.0231		92.2	23.4	
D 47 13C3-PFBS										
301.90 > 83.00	1.745	1.743	0.002	0.647	90718	2.26		97.0	614	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.745	1.745	0.0	1.000	66644	0.0220		99.5	376	
298.90 > 99.00	1.745	1.745	0.0	1.000	28118		2.37(1.25-3.74)	99.5	171	
D 60 M2-4:2FTS										
329.00 > 81.00	1.956	1.959	-0.003	0.725	643318	2.32		99.2	7775	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.966	1.962	0.004	1.000	15310	0.0243		104	941	
D 7 13C2 PFHxA										
315.00 > 270.00	1.998	1.998	0.0	0.741	4874041	2.50		100	145438	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.998	1.998	0.0	1.000	49694	0.0249		99.7	127	
313.00 > 119.00	1.998	1.998	0.0	1.000	4724		10.52(5.03-15.10)	99.7	94.1	
D 9 13C4-PFHpA										
367.00 > 322.00	2.341	2.333	0.008	0.868	4984623	2.59		104	93288	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.341	2.335	0.006	1.000	48297	0.0234		93.7	96.7	
363.00 > 169.00	2.341	2.335	0.006	1.000	20477		2.36(1.13-3.40)	93.7	268	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.354	2.346	0.008	1.000	71171	0.0274		120	609	
399.00 > 99.00	2.354	2.346	0.008	1.000	22990		3.10(1.50-4.49)	120	94.3	
D 11 18O2 PFHxS										
403.00 > 84.00	2.354	2.348	0.006	0.873	5519750	2.33		98.4	62536	
D 12 M2-6:2FTS										
429.00 > 81.00	2.673	2.672	0.001	0.991	938472	2.36		99.2	21899	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.673	2.672	0.001	1.000	14587	0.0212		89.3	1143	
D 14 13C4 PFOA										
417.00 > 372.00	2.697	2.695	0.002	1.000	4941609	2.51		101	82002	
* 62 13C2-PFOA										
415.00 > 370.00	2.697	2.695	0.002		5243768	2.50			67801	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.705	2.697	0.008	1.003	60671	0.0272		109	17.7	
413.00 > 169.00	2.697	2.697	0.0	1.000	32946		1.84(0.84-2.52)	109	87.6	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.705	2.703	0.002	1.000	52467	0.0242		101	1533	
449.00 > 99.00	2.705	2.703	0.002	1.000	13197		3.98(1.94-5.82)	101	181	
D 18 13C4 PFOS										
503.00 > 80.00	3.072	3.068	0.004	1.139	4052357	2.35		98.3	50838	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.072	3.070	0.002	1.000	46371	0.0246		106	171	
499.00 > 99.00	3.072	3.070	0.002	1.000	11047		4.20(2.31-6.93)	106	85.3	M
D 19 13C5 PFNA										
468.00 > 423.00	3.072	3.070	0.002	1.139	4278627	2.47		98.7	81507	
20 Perfluorononanoic acid										
463.00 > 419.00	3.072	3.072	0.0	1.000	41117	0.0241		96.3	48.9	
463.00 > 169.00	3.072	3.072	0.0	1.000	9349		4.40(1.90-5.69)	96.3	229	
D 21 13C8 FOSA										
506.00 > 78.00	3.399	3.396	0.003	1.260	5746202	2.47		98.8	46543	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.399	3.397	0.002	1.000	58708	0.0259		104	1350	
D 26 M2-8:2FTS										
529.00 > 81.00	3.426	3.426	0.0	1.270	1345013	2.50		104	42755	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.426	3.426	0.0	1.000	17824	0.0249		104	503	
D 23 13C2 PFDA										
515.00 > 470.00	3.435	3.435	0.0	1.274	3878963	2.55		102	72834	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.435	3.435	0.0	1.000	39168	0.0255		102	160	
513.00 > 169.00	3.435	3.435	0.0	1.000	6534		5.99(2.36-7.09)	102	158	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.590	3.591	-0.001	1.331	1979468	2.47		99.0	38616	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.590	3.594	-0.004	1.000	17070	0.0215		86.2	131	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.748	3.749	-0.001	1.000	24583	0.0213		88.5	853	
599.00 > 99.00	3.748	3.749	-0.001	1.000	8435		2.91(1.39-4.16)	88.5	305	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.758	3.759	-0.001	1.394	2392883	2.63		105	11372	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.769	3.768	0.001	1.000	33058	0.0281		112	146	
563.00 > 169.00	3.769	3.768	0.001	1.000	10108		3.27(2.12-6.36)	112	319	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.769	3.768	0.001	1.003	22073	0.0247		98.7	505	
D 30 13C2 PFUnA										
565.00 > 520.00	3.769	3.768	0.001	1.398	3409956	2.51		100	42217	
D 36 13C2 PFDoA										
615.00 > 570.00	4.068	4.066	0.002	1.508	3864207	2.50		100	26731	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.068	4.068	0.0	1.000	40586	0.0251		100	34.7	
613.00 > 169.00	4.068	4.068	0.0	1.000	8184		4.96(2.13-6.40)	100	145	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.328	4.329	-0.001	1.000	39576	0.0233		93.0	27.3	
663.00 > 169.00	4.328	4.329	-0.001	1.000	13312		2.97(1.25-3.76)	93.0	278	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.575	4.568	0.006	1.696	4813878	2.55		102	33813	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.575	4.571	0.003	1.000	11552	0.0242		96.8	204	
713.00 > 219.00	4.564	4.571	-0.007	0.998	8925		1.29(0.71-2.13)	96.8	192	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.990	4.987	0.003	1.851	7818840	2.53		101	18128	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.990	4.989	0.001	1.000	139895	0.0249		99.7	45.6	
813.00 > 169.00	4.990	4.989	0.001	1.000	24399		5.73(2.86-8.58)	99.7	287	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.358	5.354	0.004	1.000	74253	0.0257		103	25.7	
913.00 > 169.00	5.351	5.354	-0.003	0.999	8840		8.40(3.83-11.48)	103	123	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00005 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_002.d

Injection Date: 21-Mar-2018 18:24:14 Instrument ID: A8_N

Lims ID: IC L1 Full

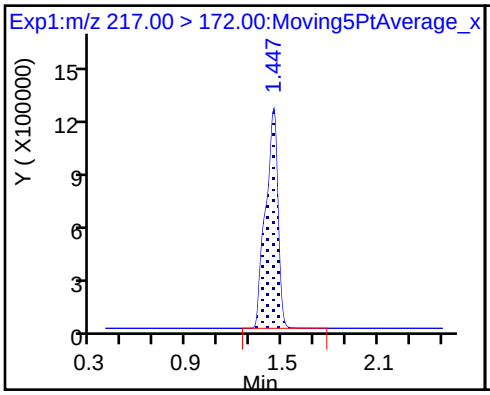
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

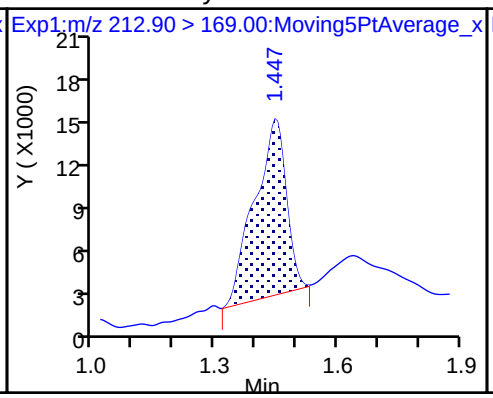
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

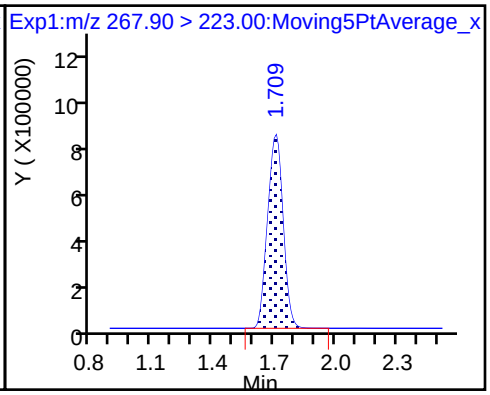
D 1 13C4 PFBA



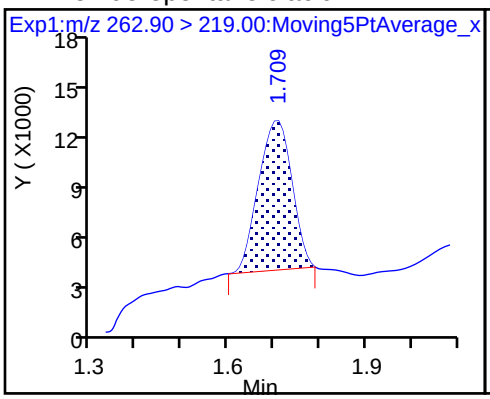
2 Perfluorobutyric acid



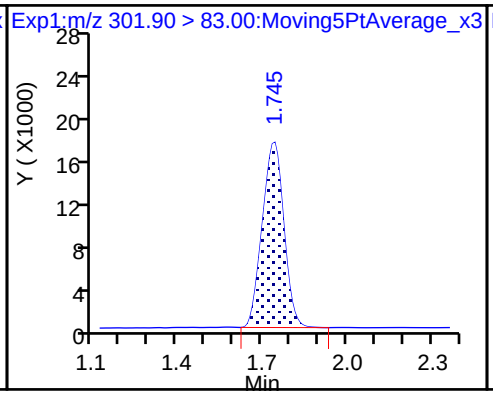
D 3 13C5-PFPeA



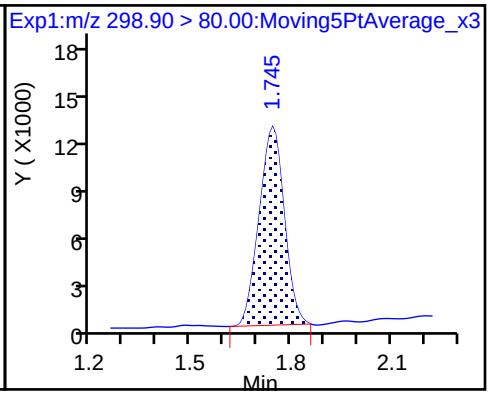
4 Perfluoropentanoic acid



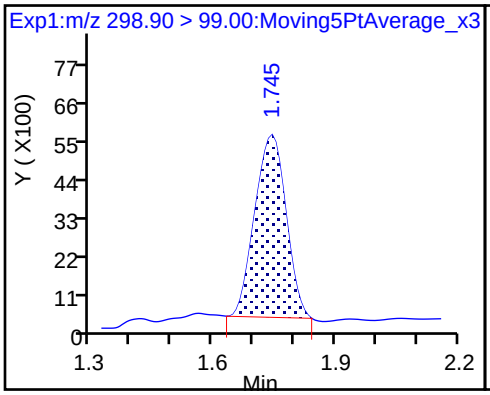
D 47 13C3-PFBS



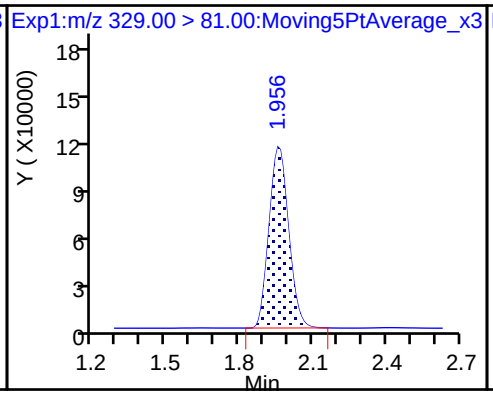
5 Perfluorobutanesulfonic acid



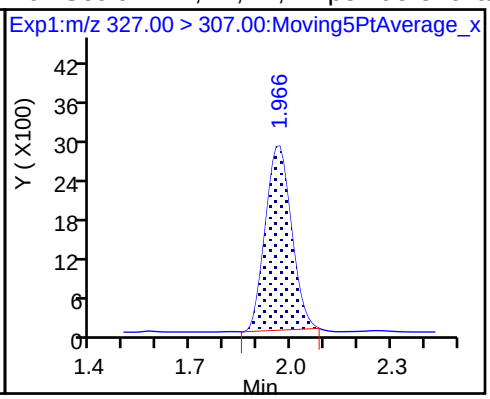
5 Perfluorobutanesulfonic acid



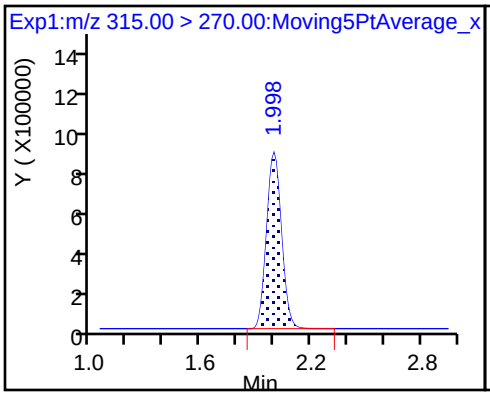
D 60 M2-4:2FTS



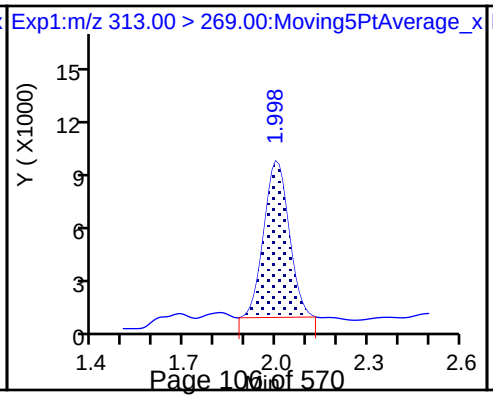
61 Sodium 1H,1H,2H,2H-perfluorohexane



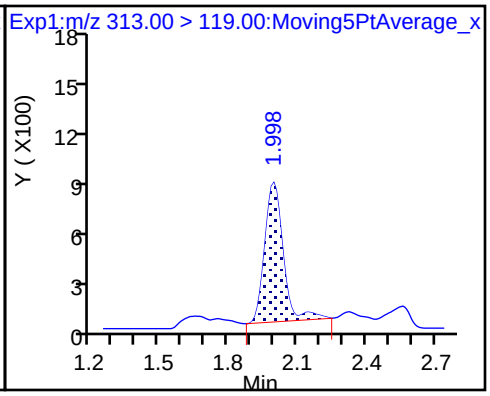
D 7 13C2 PFHxA



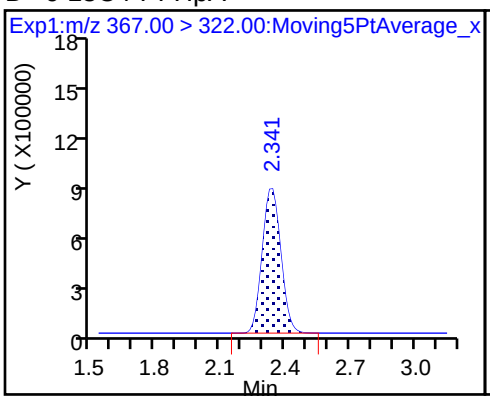
6 Perfluorohexanoic acid



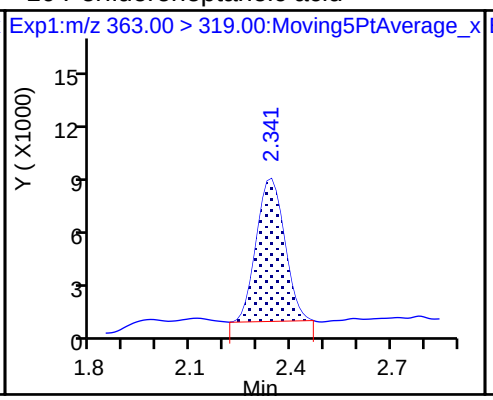
6 Perfluorohexanoic acid



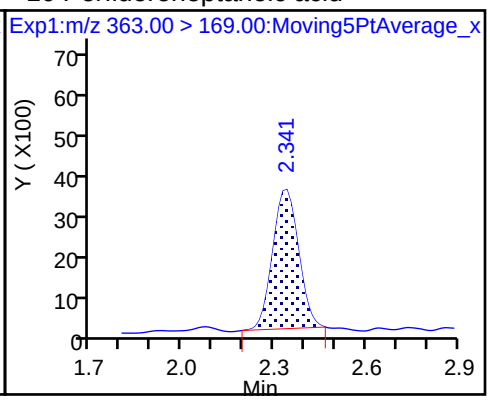
D 9 13C4-PFHpA



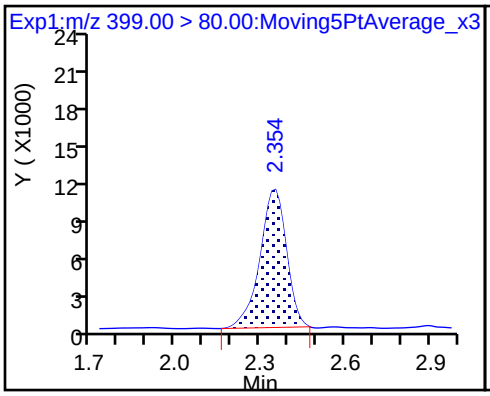
10 Perfluoroheptanoic acid



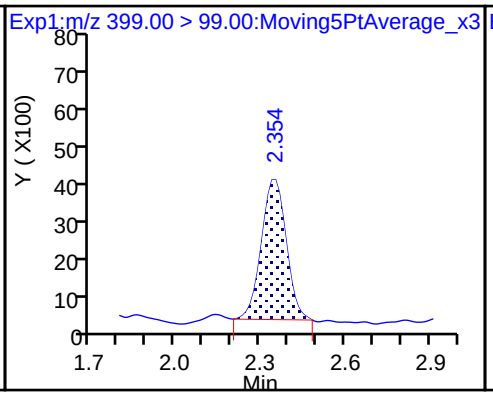
10 Perfluoroheptanoic acid



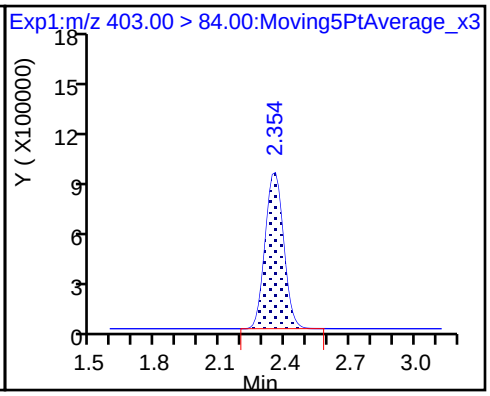
8 Perfluorohexanesulfonic acid



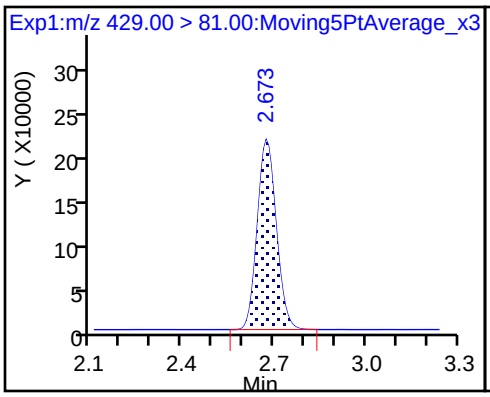
8 Perfluorohexanesulfonic acid



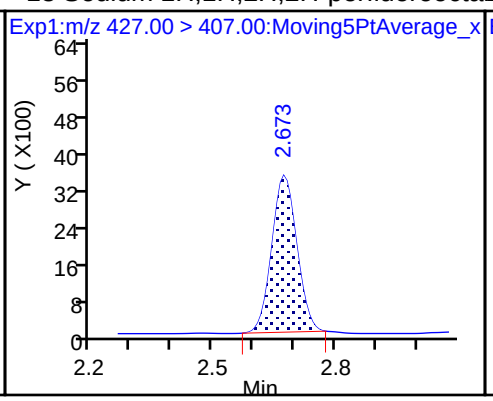
D 11 18O2 PFHxS



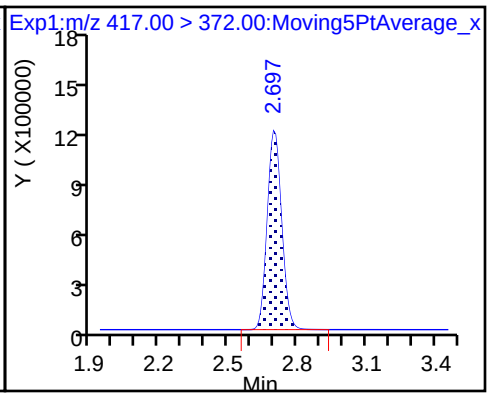
D 12 M2-6:2FTS



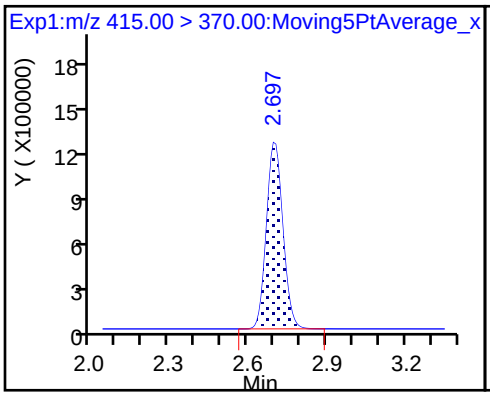
13 Sodium 1H,1H,2H,2H-perfluorooctane



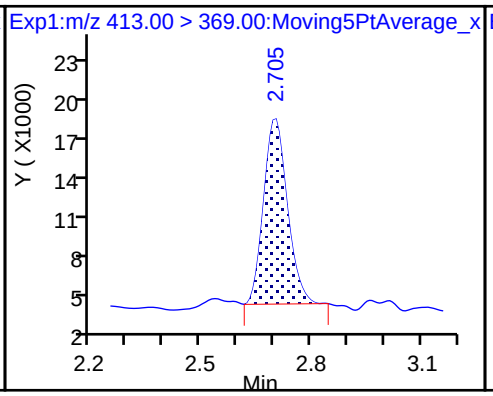
D 14 13C4 PFOA



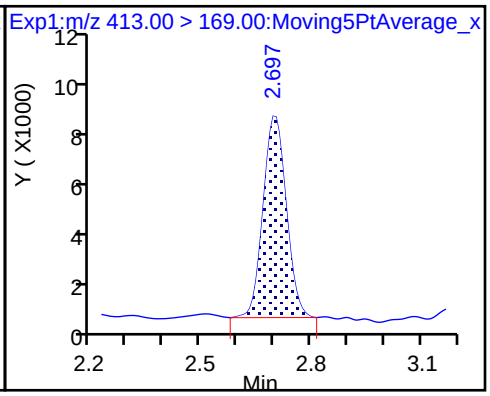
* 62 13C2-PFOA



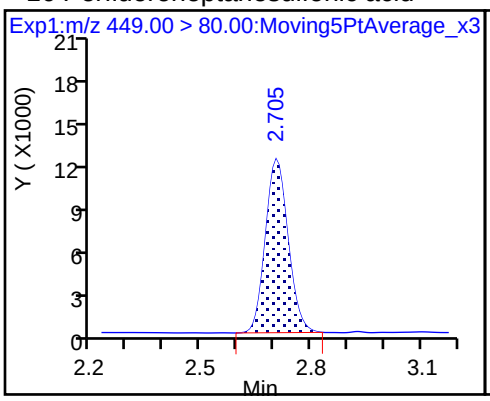
15 Perfluorooctanoic acid



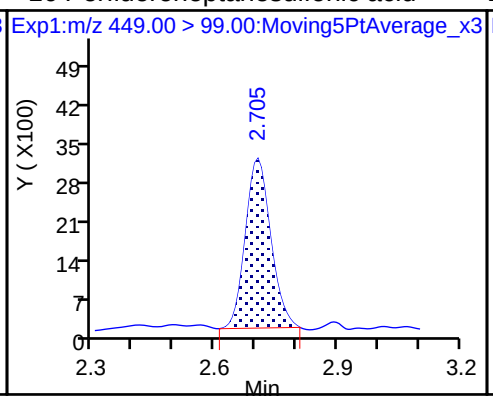
15 Perfluorooctanoic acid



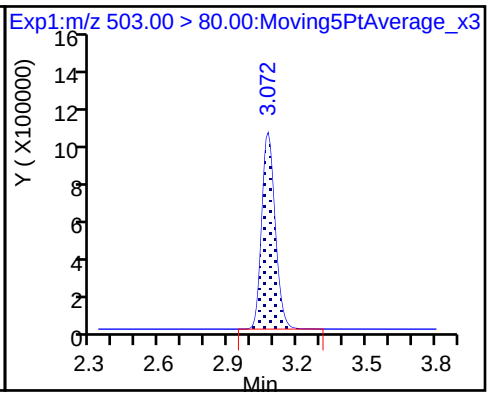
16 Perfluoroheptanesulfonic acid



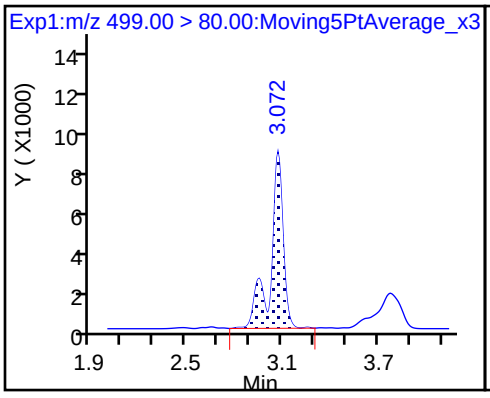
16 Perfluoroheptanesulfonic acid



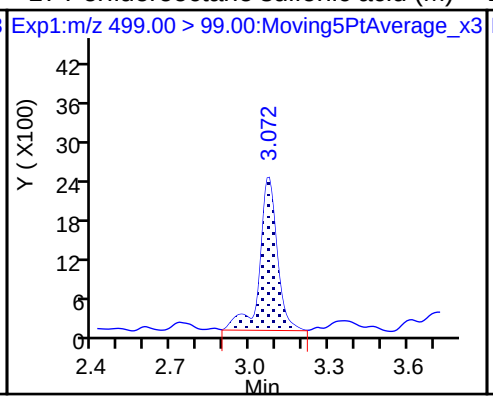
D 18 13C4 PFOS



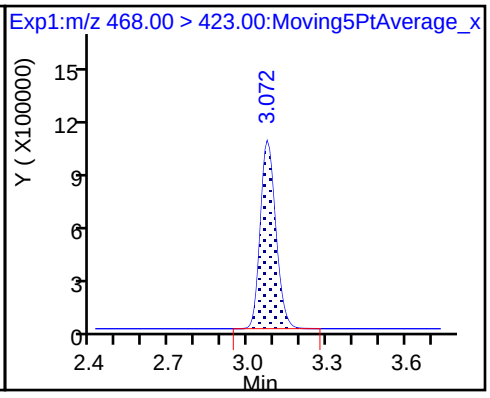
17 Perfluorooctane sulfonic acid



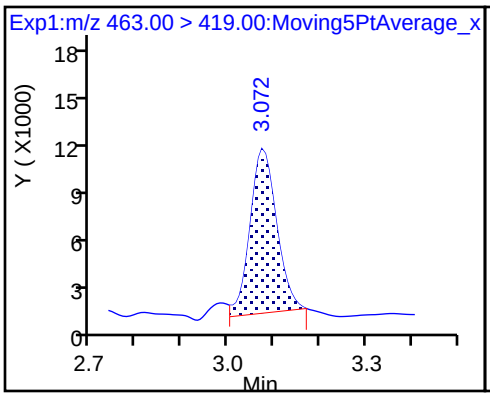
17 Perfluorooctane sulfonic acid (M)



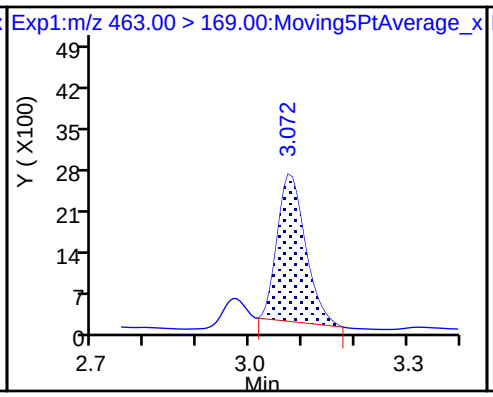
D 19 13C5 PFNA



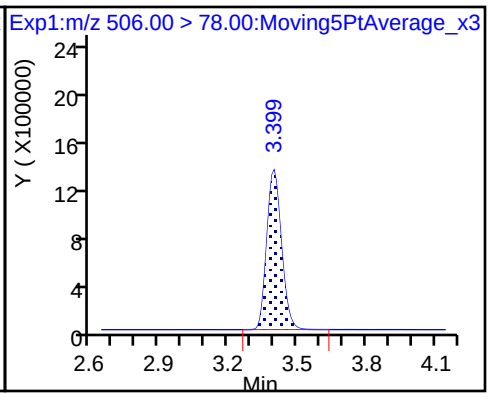
20 Perfluorononanoic acid



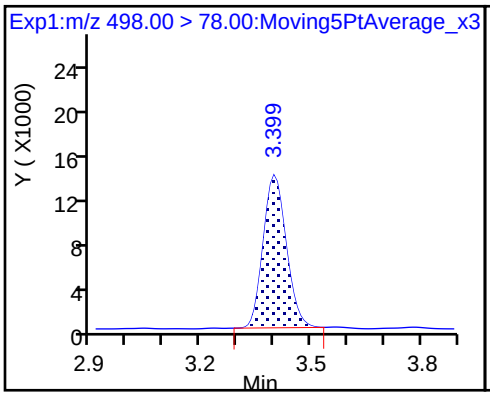
20 Perfluorononanoic acid



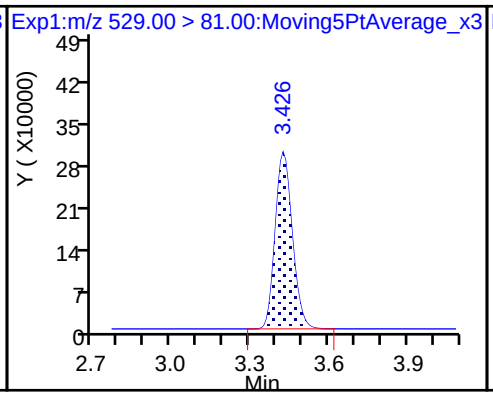
D 21 13C8 FOSA



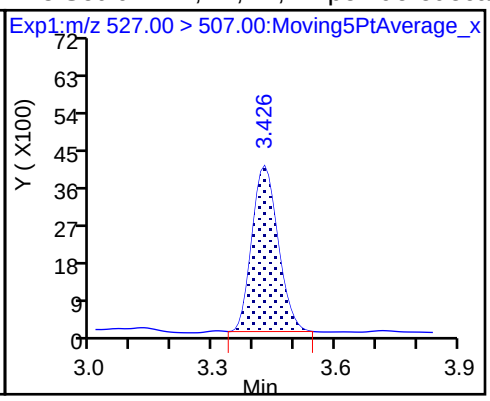
22 Perfluorooctane Sulfonamide



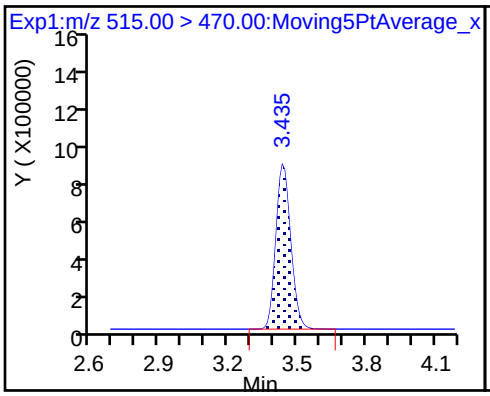
D 26 M2-8:2FTS



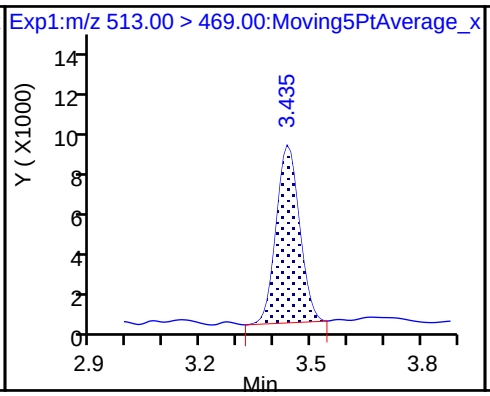
25 Sodium 1H,1H,2H,2H-perfluorodecane



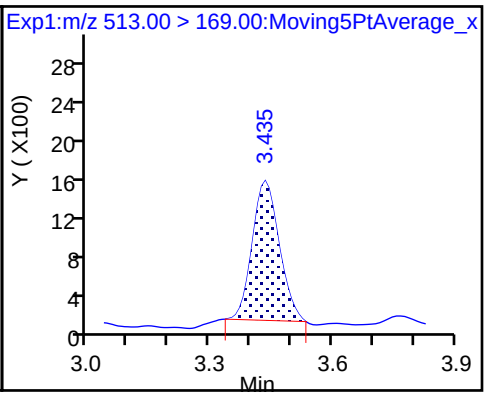
D 23 13C2 PFDA



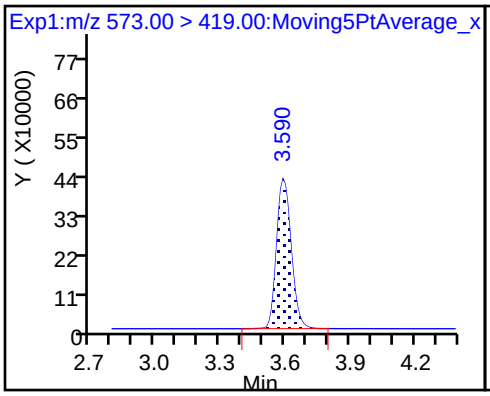
24 Perfluorodecanoic acid



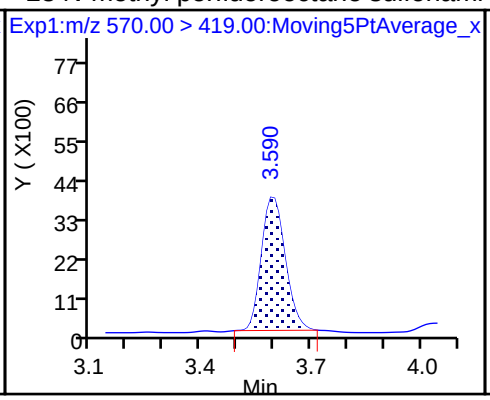
24 Perfluorodecanoic acid



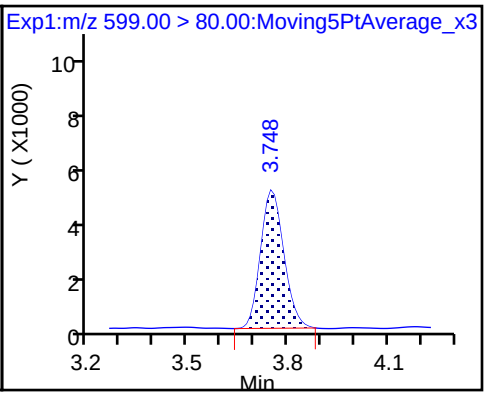
D 27 d3-NMeFOSAA



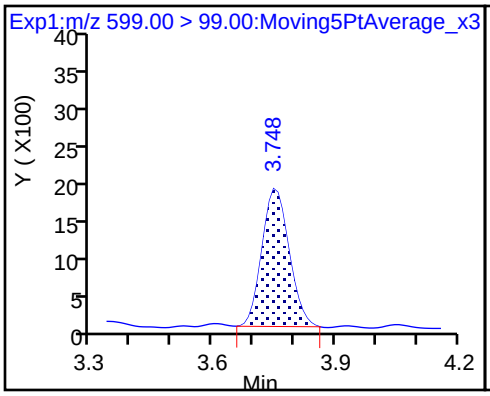
28 N-methyl perfluorooctane sulfonami



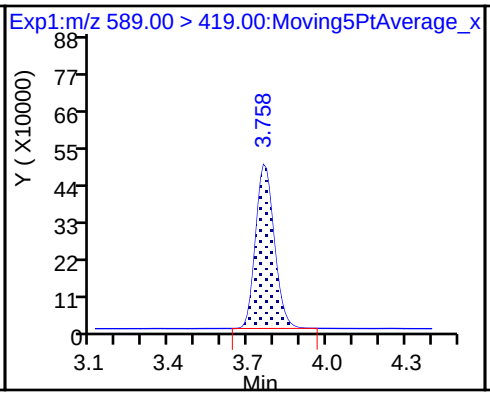
29 Perfluorodecane Sulfonic acid



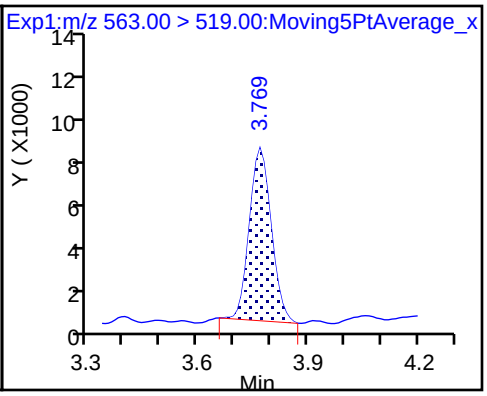
29 Perfluorodecane Sulfonic acid



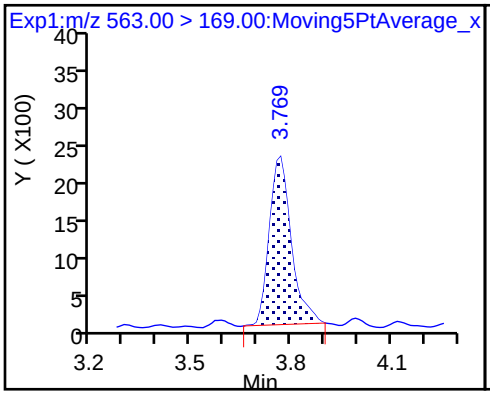
D 32 d5-NEtFOSAA



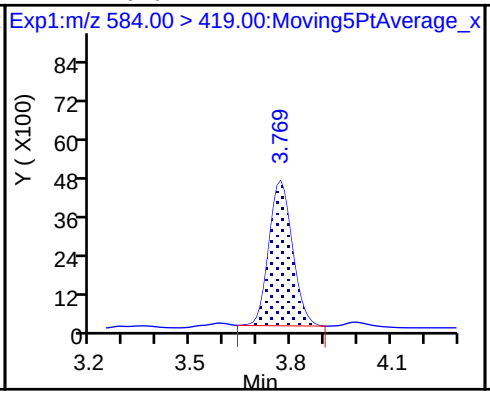
31 Perfluoroundecanoic acid



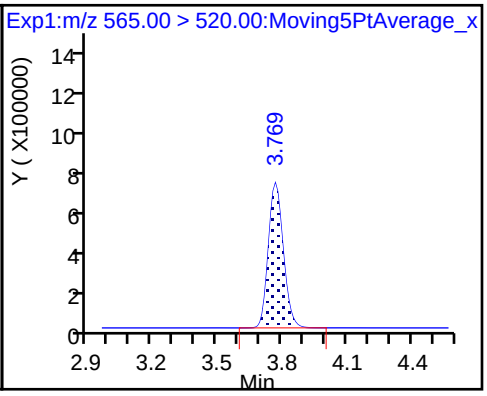
31 Perfluoroundecanoic acid



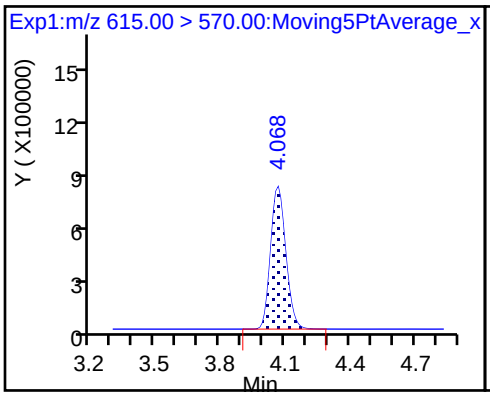
33 N-ethyl perfluorooctane sulfonamid



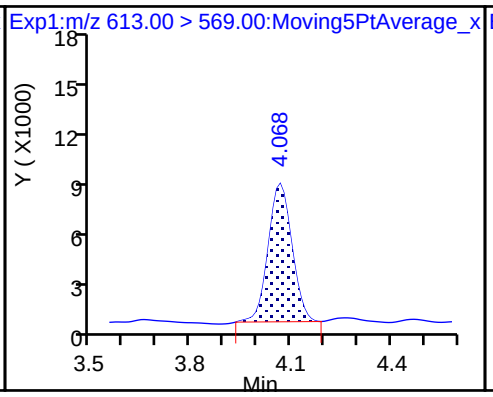
D 30 13C2 PFUnA



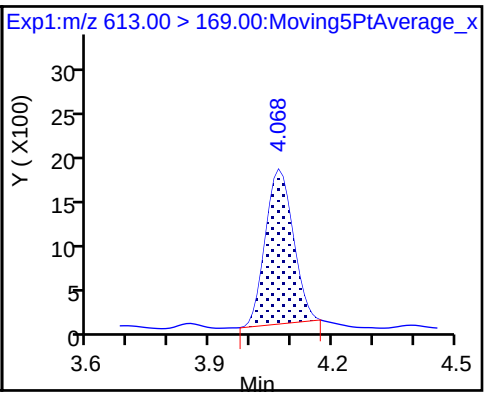
D 36 13C2 PFDoA



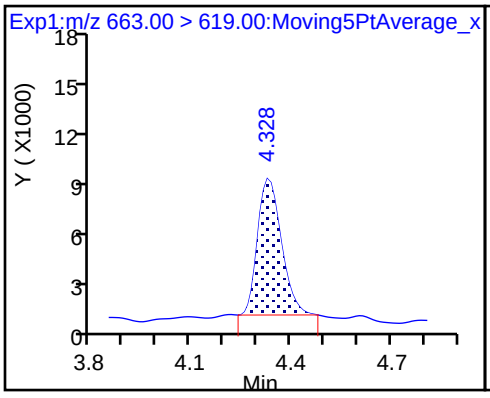
37 Perfluorododecanoic acid



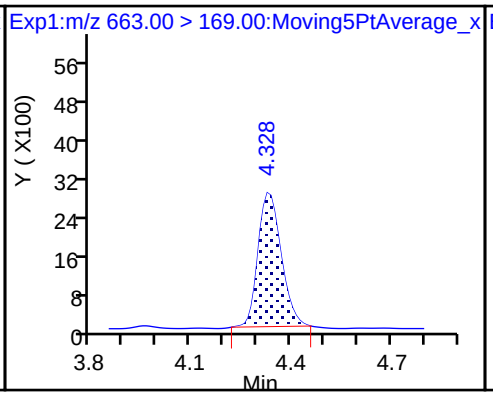
37 Perfluorododecanoic acid



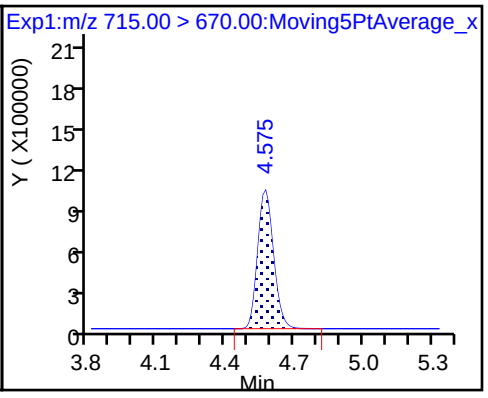
41 Perfluorotridecanoic acid



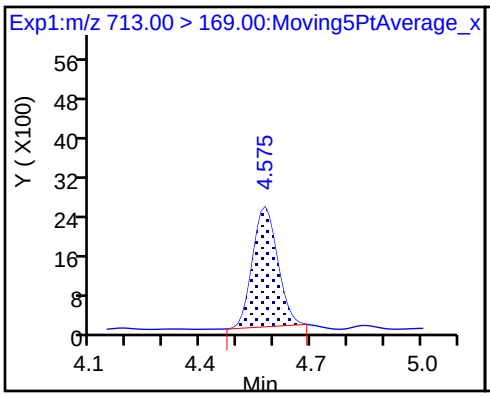
41 Perfluorotridecanoic acid



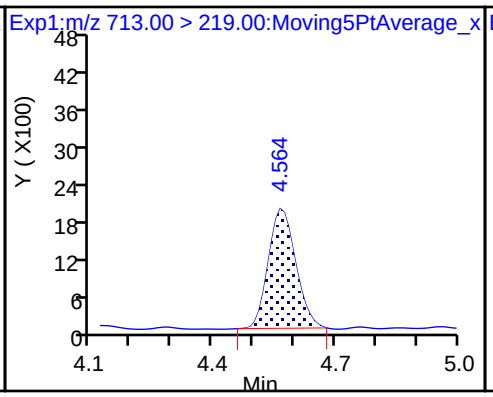
D 43 13C2-PFTeDA



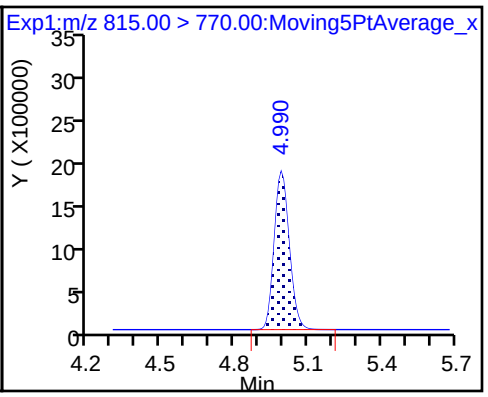
42 Perfluorotetradecanoic acid



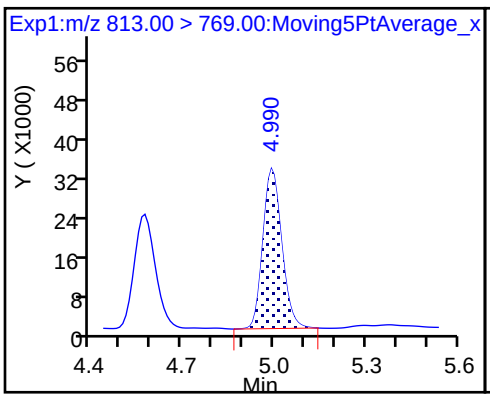
42 Perfluorotetradecanoic acid



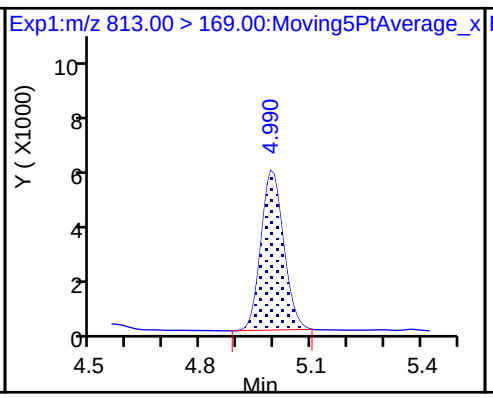
D 44 13C2-PFHxDA



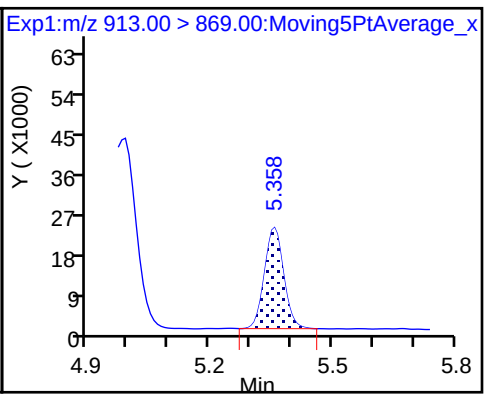
45 Perfluorohexadecanoic acid



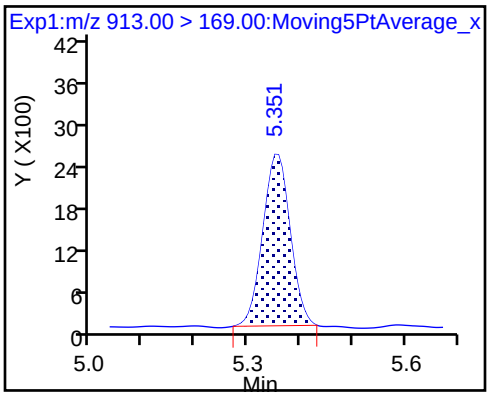
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

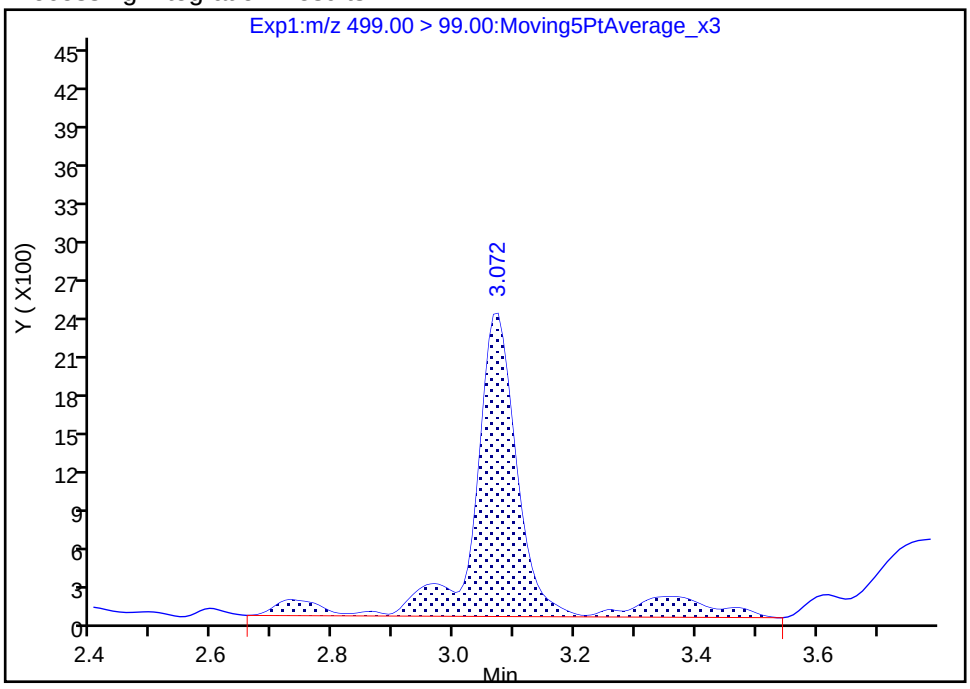
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_002.d				
Injection Date:	21-Mar-2018 18:24:14	Instrument ID:	A8_N		
Lims ID:	IC L1 Full				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

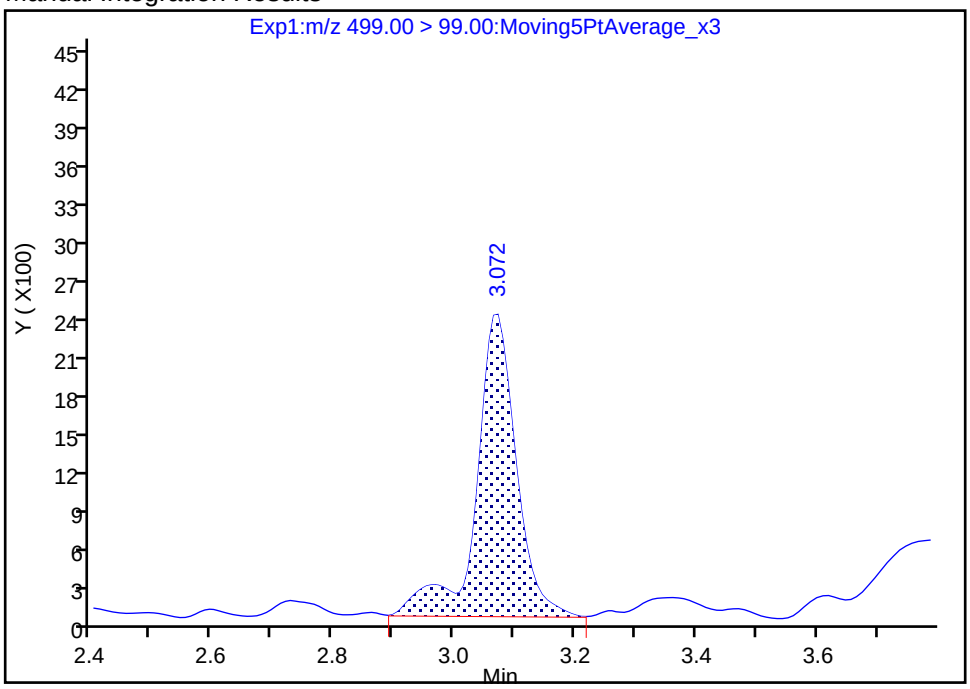
Processing Integration Results

RT: 3.07
Area: 13417
Amount: 0.025454
Amount Units: ng/ml



Manual Integration Results

RT: 3.07
Area: 11047
Amount: 0.024551
Amount Units: ng/ml



Reviewer: phomsophat, 21-Mar-2018 19:22:35

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Mar-2018 18:32:06 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:24 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:01:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.453	1.447	0.006	0.538	6712910	2.48		99.4	74780	
2 Perfluorobutyric acid										
212.90 > 169.00	1.453	1.449	0.004	1.000	131334	0.0519		104	51.1	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.718	1.710	0.008	1.000	99242	0.0493		98.6	52.1	
D 3 13C5-PFPeA										
267.90 > 223.00	1.718	1.710	0.008	0.636	4463093	2.49		99.6	170407	
D 47 13C3-PFBS										
301.90 > 83.00	1.745	1.743	0.002	0.646	95045	2.32		99.9	742	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.754	1.745	0.009	1.005	142407	0.0448		101	854	
298.90 > 99.00	1.754	1.745	0.009	1.005	60865		2.34(1.25-3.74)	101	355	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.959	0.007	0.728	697680	2.47		106	9203	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.966	1.962	0.004	1.000	30869	0.0467		100	1890	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.009	1.998	0.011	1.000	109004	0.0514		103	280	
313.00 > 119.00	1.998	1.998	0.0	0.995	10400		10.48(5.03-15.10)	103	241	
D 7 13C2 PFHxA										
315.00 > 270.00	2.009	1.998	0.011	0.743	5181558	2.61		105	132505	
D 9 13C4-PFHpA										
367.00 > 322.00	2.341	2.333	0.008	0.866	4767222	2.44		97.5	90402	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.341	2.335	0.006	1.000	104181	0.0528		106	196	
363.00 > 169.00	2.341	2.335	0.006	1.000	41833		2.49(1.13-3.40)	106	451	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.354	2.346	0.008	1.000	131804	0.0476		105	1325	
399.00 > 99.00	2.354	2.346	0.008	1.000	47613		2.77(1.50-4.49)	105	223	
D 11 18O2 PFHxS										
403.00 > 84.00	2.354	2.348	0.006	0.871	5886251	2.44		103	63857	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.679	2.672	0.007	1.000	37735	0.0514		108	2241	
D 12 M2-6:2FTS										
429.00 > 81.00	2.679	2.672	0.007	0.991	999800	2.47		104	23113	
* 62 13C2-PFOA										
415.00 > 370.00	2.702	2.695	0.007		5334725	2.50			83817	
D 14 13C4 PFOA										
417.00 > 372.00	2.702	2.695	0.007	1.000	5069957	2.53		101	74355	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.702	2.697	0.005	1.000	127108	0.0555		111	40.5	
413.00 > 169.00	2.702	2.697	0.005	1.000	59408		2.14(0.84-2.52)	111	145	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.710	2.703	0.007	1.000	109652	0.0481		101	2629	
449.00 > 99.00	2.710	2.703	0.007	1.000	29467		3.72(1.94-5.82)	101	328	
D 18 13C4 PFOS										
503.00 > 80.00	3.072	3.068	0.004	1.137	4256604	2.43		101	42340	
D 19 13C5 PFNA										
468.00 > 423.00	3.072	3.070	0.002	1.137	4474026	2.54		101	84326	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.072	3.070	0.002	1.000	89694	0.0452		97.4	274	
499.00 > 99.00	3.072	3.070	0.002	1.000	22534		3.98(2.31-6.93)	97.4	162	
20 Perfluorononanoic acid										
463.00 > 419.00	3.080	3.072	0.008	1.003	87380	0.0489		97.9	102	
463.00 > 169.00	3.080	3.072	0.008	1.003	21332		4.10(1.90-5.69)	97.9	528	
D 21 13C8 FOSA										
506.00 > 78.00	3.397	3.396	0.001	1.257	5839734	2.47		98.7	42573	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.397	3.397	0.0	1.000	112857	0.0490		98.0	1944	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.433	3.426	0.007	1.000	31966	0.0429		89.5	895	
D 26 M2-8:2FTS										
529.00 > 81.00	3.433	3.426	0.007	1.270	1399775	2.56		107	26042	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.442	3.435	0.007	1.000	71937	0.0449		89.8	349	
513.00 > 169.00	3.442	3.435	0.007	1.000	15536		4.63(2.36-7.09)	89.8	510	
D 23 13C2 PFDA										
515.00 > 470.00	3.442	3.435	0.007	1.274	4053733	2.62		105	70301	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.599	3.591	0.008	1.332	1933236	2.38		95.0	40929	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.599	3.594	0.005	1.000	35274	0.0456		91.2	272	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.758	3.749	0.009	1.000	57466	0.0475		98.4	1493	
599.00 > 99.00	3.758	3.749	0.009	1.000	18714		3.07(1.39-4.16)	98.4	448	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.768	3.759	0.009	1.394	2436559	2.63		105	12783	
D 30 13C2 PFUnA										
565.00 > 520.00	3.768	3.768	0.0	1.394	3500228	2.53		101	72445	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.768	3.768	0.0	1.000	42131	0.0463		92.5	1086	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.768	3.768	0.0	1.000	62776	0.0520		104	262	
563.00 > 169.00	3.768	3.768	0.0	1.000	16020		3.92(2.12-6.36)	104	775	
D 36 13C2 PFDoA										
615.00 > 570.00	4.073	4.066	0.007	1.507	3780852	2.41		96.4	28974	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.073	4.068	0.005	1.000	83165	0.0526		105	73.8	
613.00 > 169.00	4.073	4.068	0.005	1.000	18963		4.39(2.13-6.40)	105	336	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.335	4.329	0.006	1.000	81708	0.0491		98.2	55.2	
663.00 > 169.00	4.335	4.329	0.006	1.000	28392		2.88(1.25-3.76)	98.2	490	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.571	4.568	0.002	1.691	4389855	2.29		91.6	28506	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.581	4.571	0.010	1.002	22776	0.0523		105	394	
713.00 > 219.00	4.571	4.571	-0.001	1.000	16546		1.38(0.71-2.13)	105	443	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.995	4.987	0.008	1.848	6843963	2.18		87.1	16591	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.995	4.989	0.006	1.000	185745	0.0504		101	64.9	
813.00 > 169.00	4.995	4.989	0.006	1.000	27597		6.73(2.86-8.58)	101	326	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.361	5.354	0.007	1.000	129317	0.0511		102	50.9	
913.00 > 169.00	5.361	5.354	0.007	1.000	15542		8.32(3.83-11.48)	102	221	

Reagents:

LCPFC_LL2_00004 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:26 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_003.d

Injection Date: 21-Mar-2018 18:32:06 Instrument ID: A8_N

Lims ID: IC L2 Full

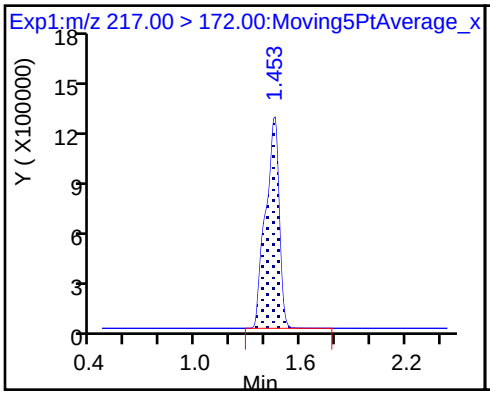
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

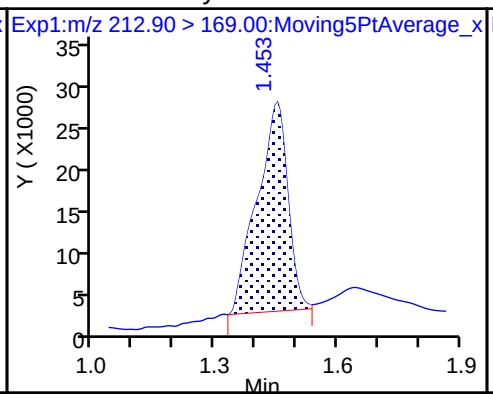
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

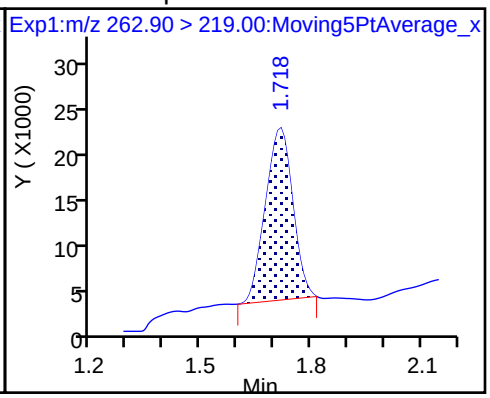
D 1 13C4 PFBA



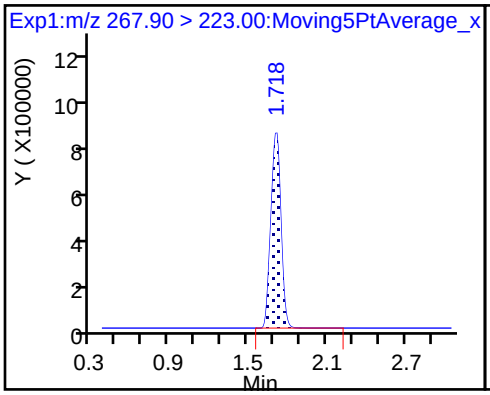
2 Perfluorobutyric acid



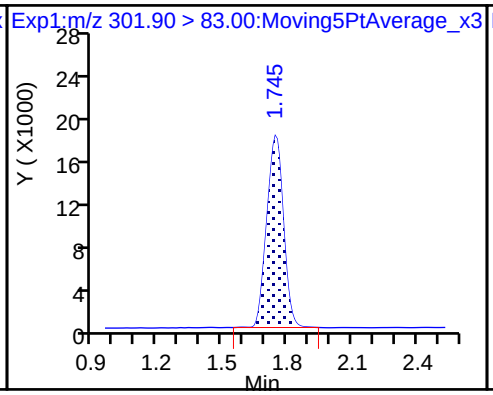
4 Perfluoropentanoic acid



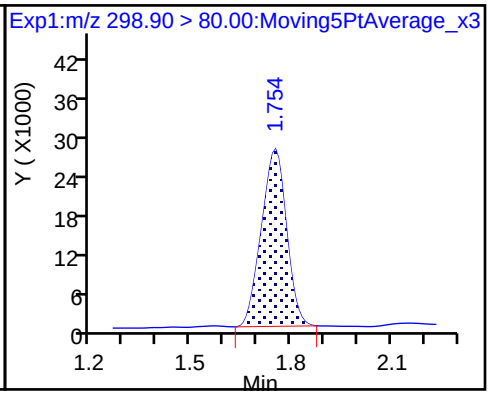
D 3 13C5-PFPeA



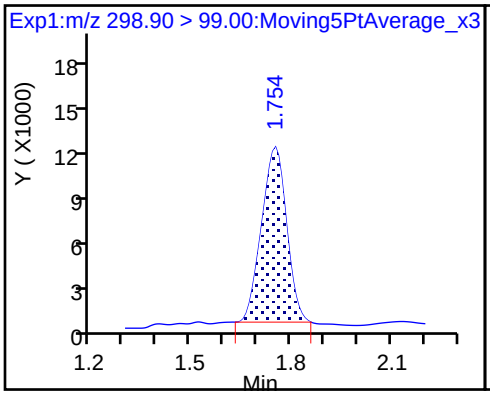
D 47 13C3-PFBS



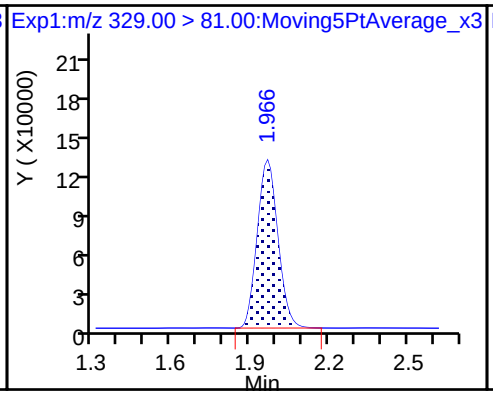
5 Perfluorobutanesulfonic acid



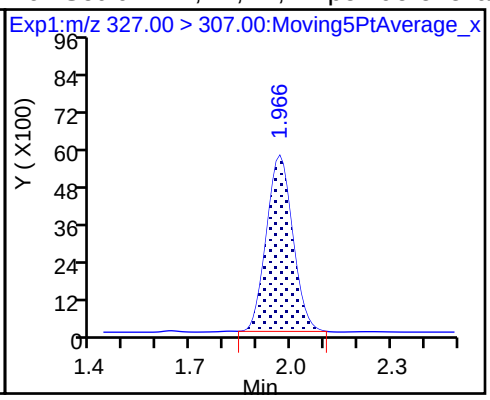
5 Perfluorobutanesulfonic acid



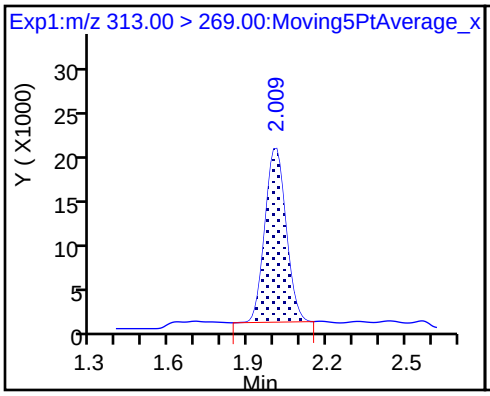
D 60 M2-4:2FTS



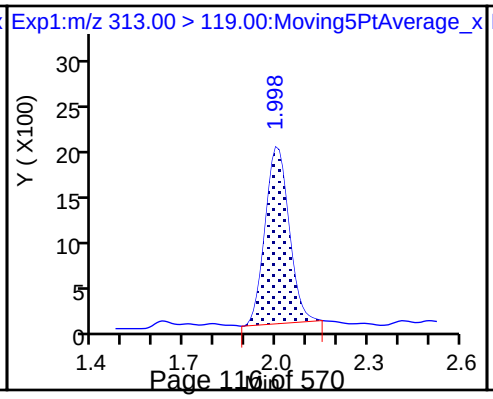
61 Sodium 1H,1H,2H,2H-perfluorohexane



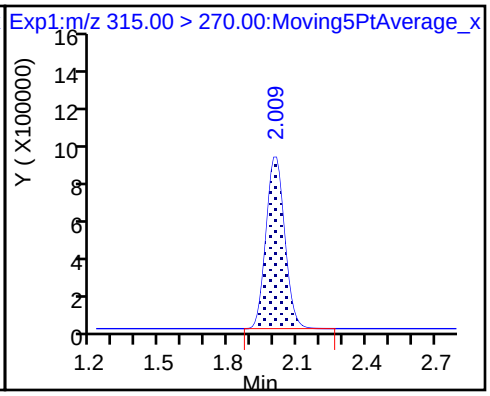
6 Perfluorohexanoic acid



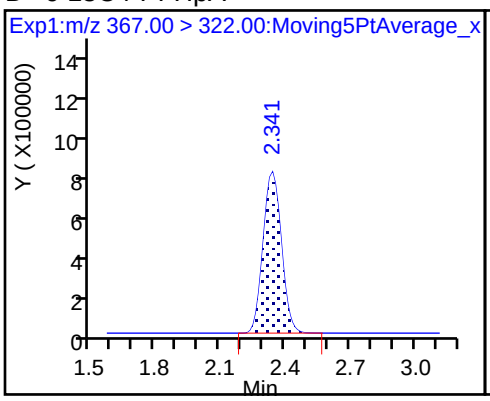
6 Perfluorohexanoic acid



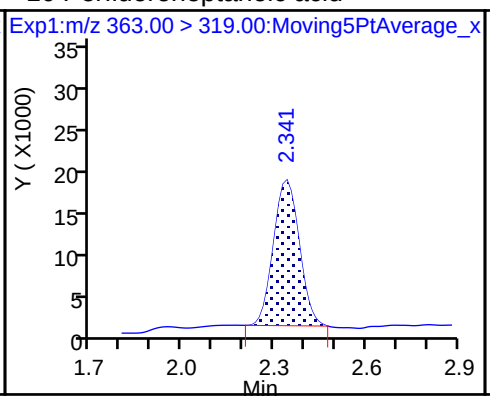
D 7 13C2 PFHxA



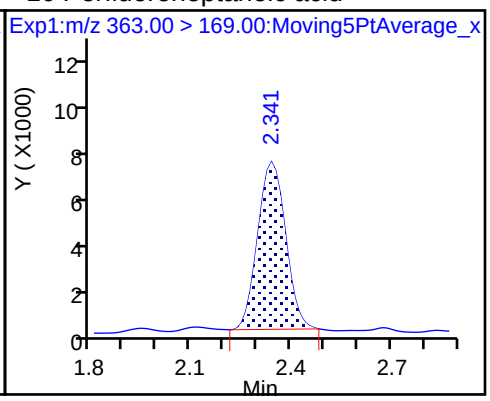
D 9 13C4-PFHpA



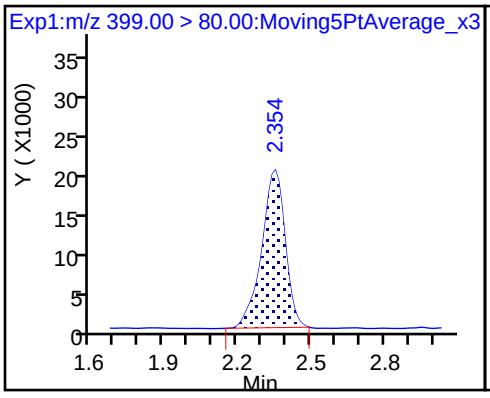
10 Perfluoroheptanoic acid



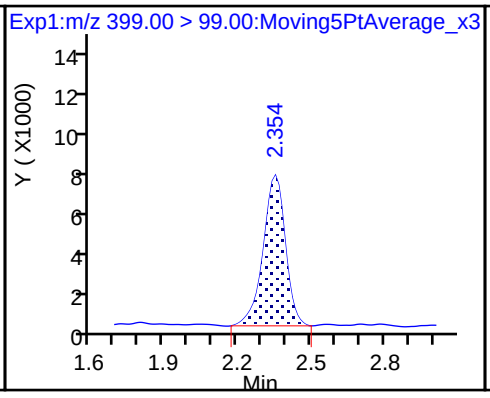
10 Perfluoroheptanoic acid



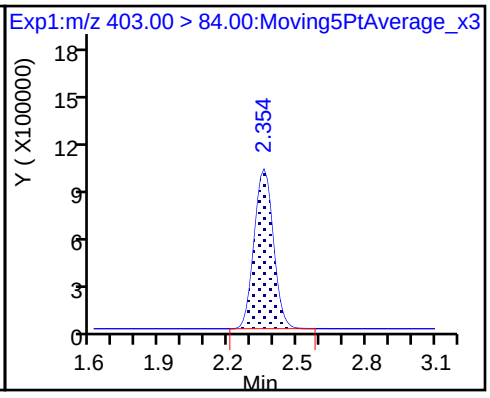
8 Perfluorohexanesulfonic acid



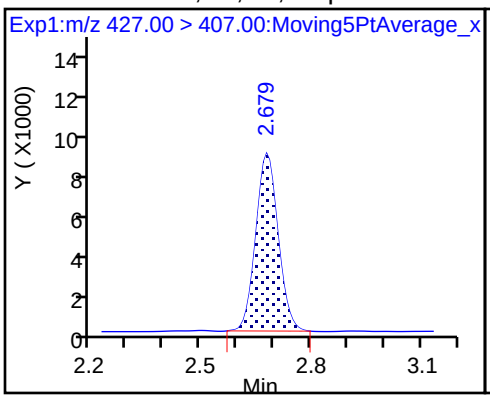
8 Perfluorohexanesulfonic acid



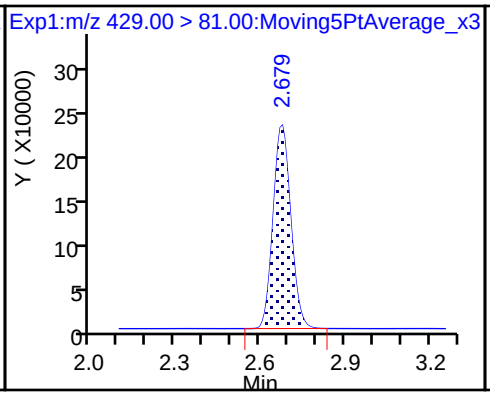
D 11 18O2 PFHxS



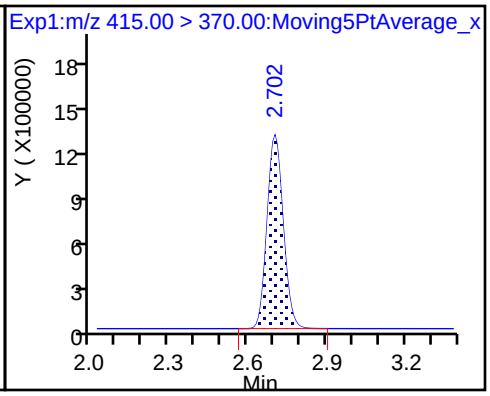
13 Sodium 1H,1H,2H,2H-perfluorooctan



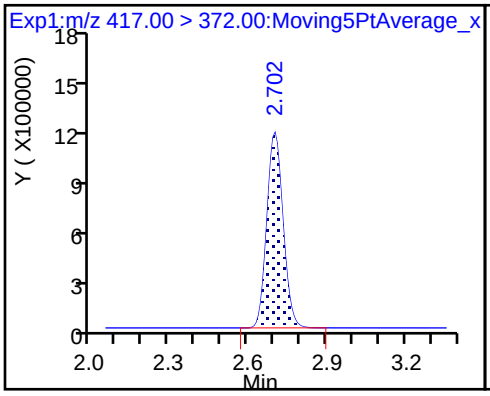
D 12 M2-6:2FTS



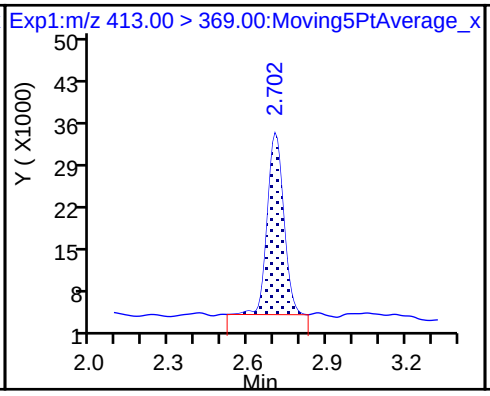
* 62 13C2-PFOA



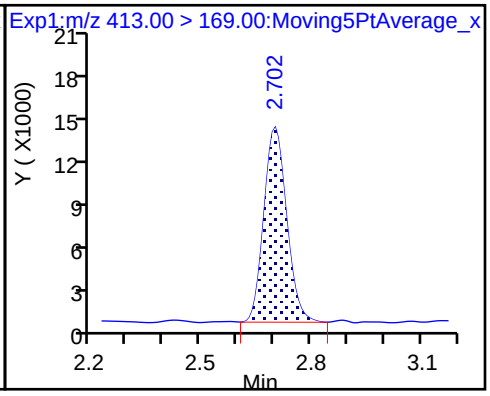
D 14 13C4 PFOA



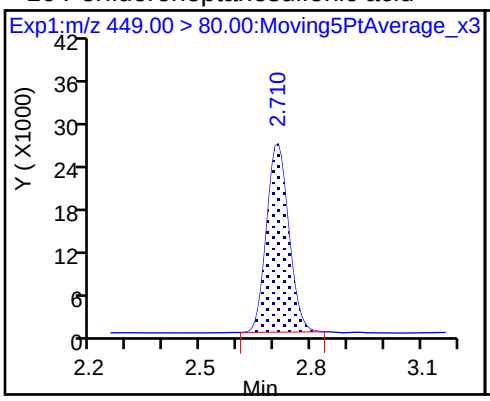
15 Perfluorooctanoic acid



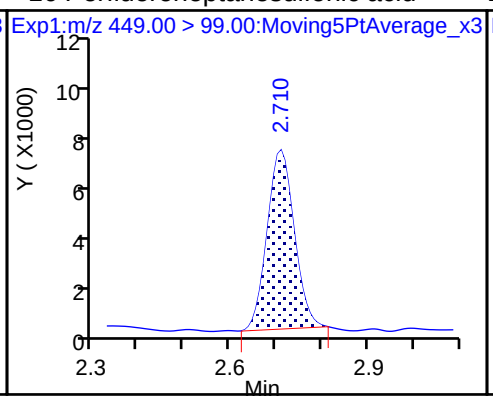
15 Perfluorooctanoic acid



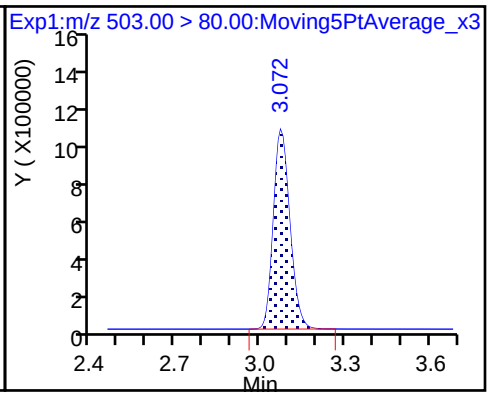
16 Perfluoroheptanesulfonic acid



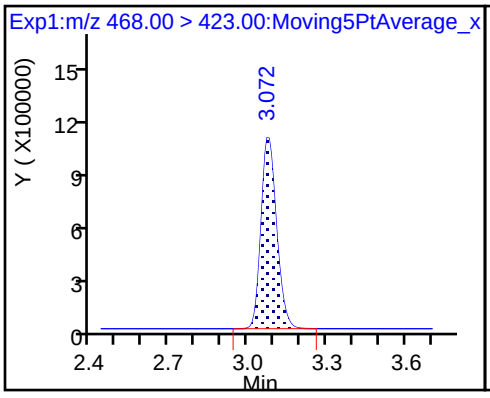
16 Perfluoroheptanesulfonic acid



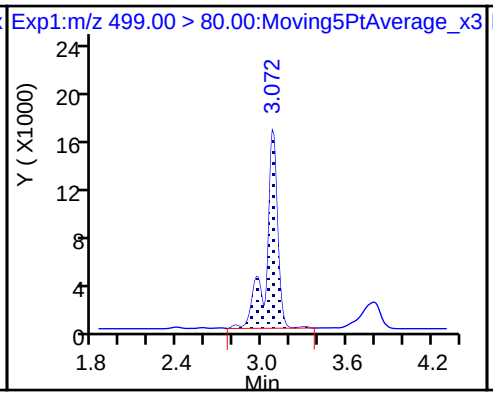
D 18 13C4 PFOS



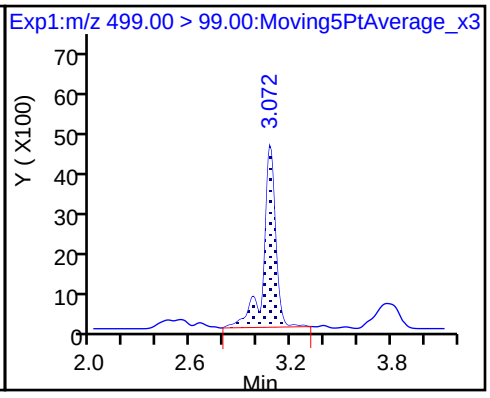
D 19 13C5 PFNA



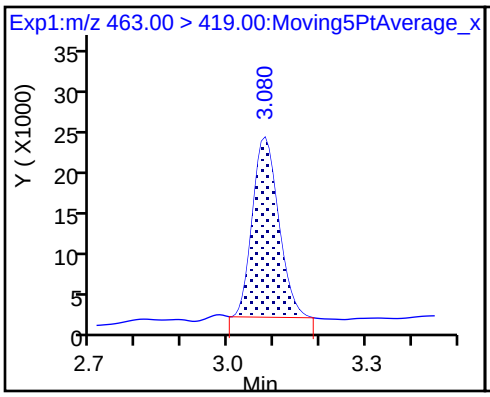
17 Perfluorooctane sulfonic acid



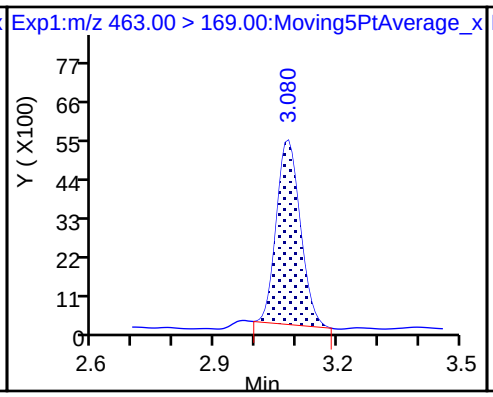
17 Perfluorooctane sulfonic acid



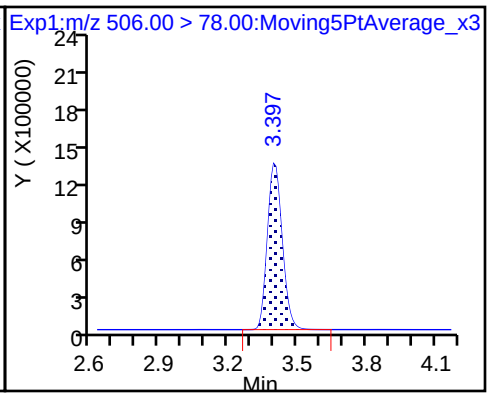
20 Perfluorononanoic acid



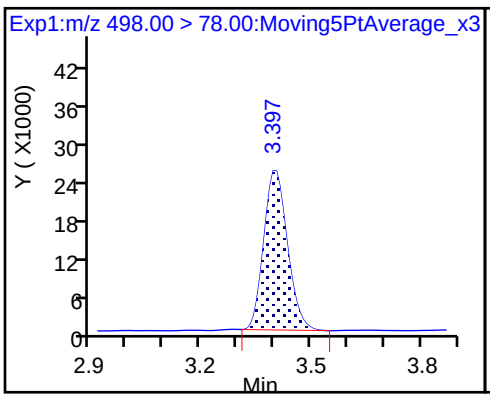
20 Perfluorononanoic acid



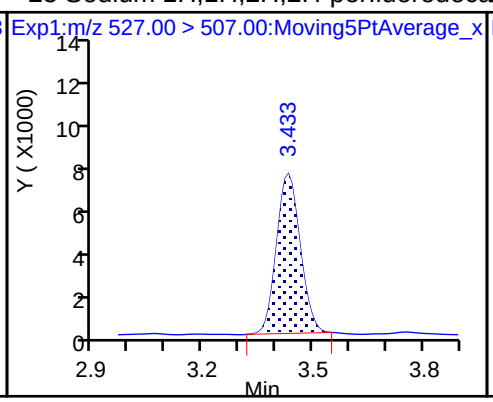
D 21 13C8 FOSA



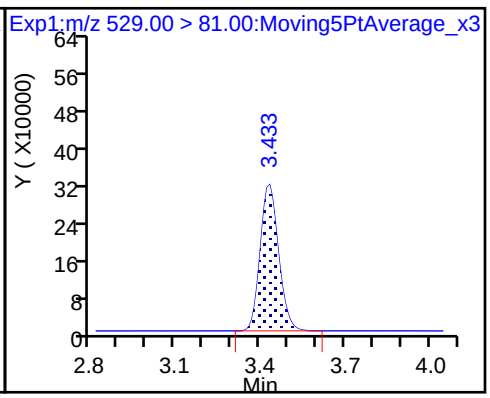
22 Perfluorooctane Sulfonamide



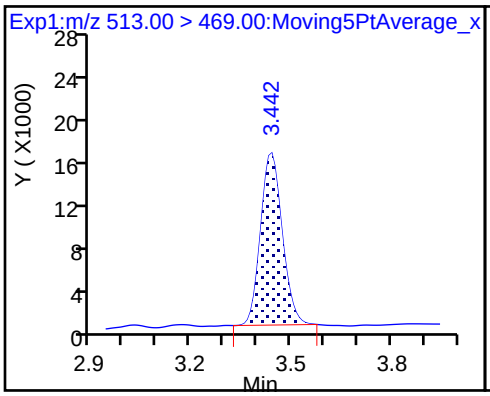
25 Sodium 1H,1H,2H,2H-perfluorodecane



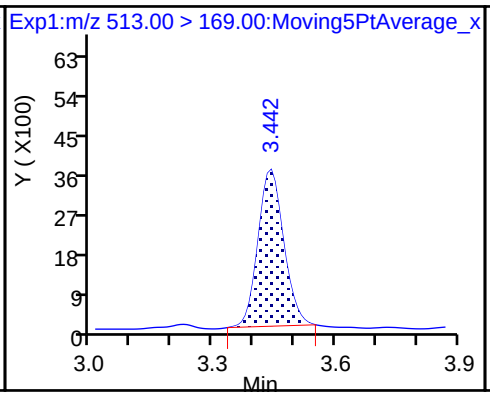
D 26 M2-8:2FTS



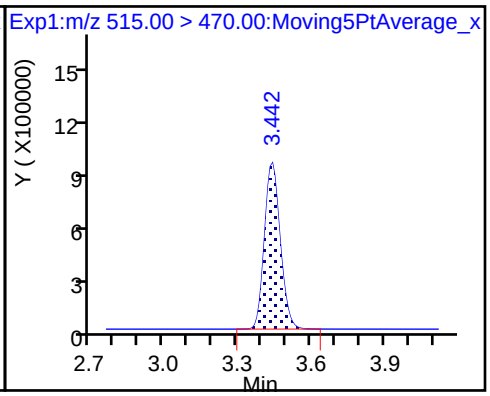
24 Perfluorodecanoic acid



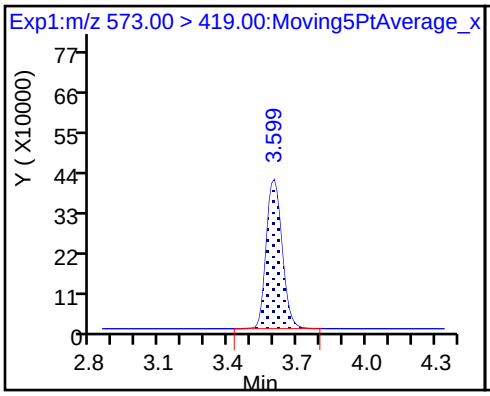
24 Perfluorodecanoic acid



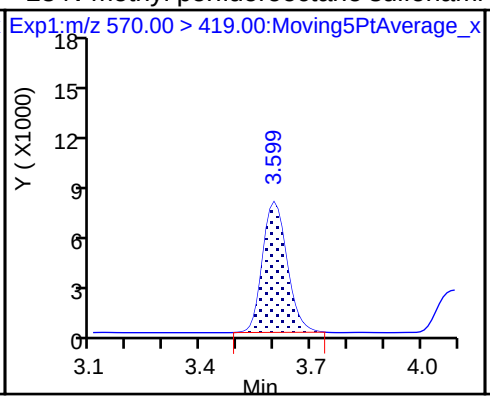
D 23 13C2 PFDA



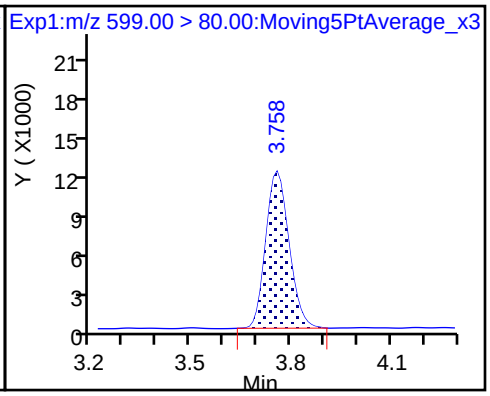
D 27 d3-NMeFOSAA



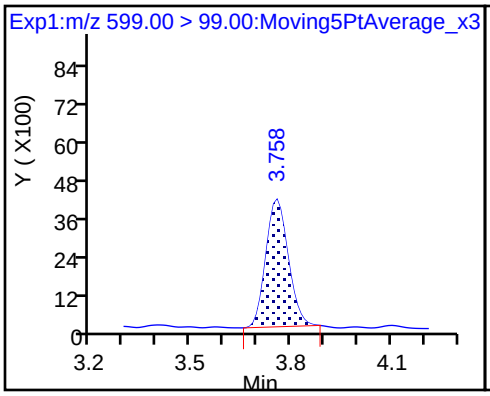
28 N-methyl perfluorooctane sulfonami



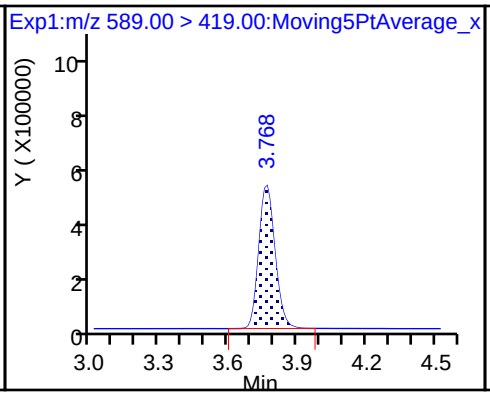
29 Perfluorodecane Sulfonic acid



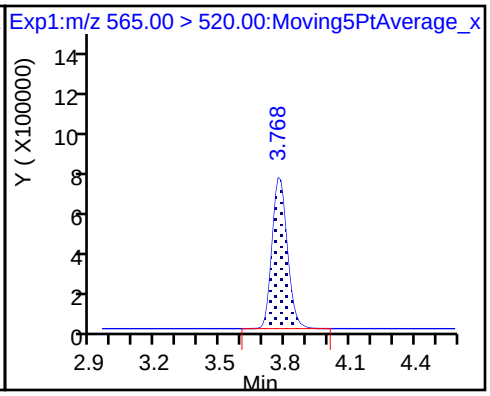
29 Perfluorodecane Sulfonic acid



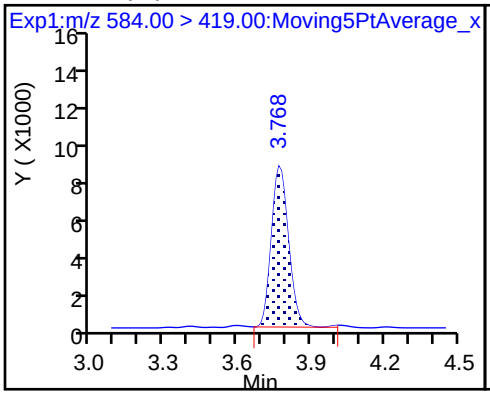
D 32 d5-NEtFOSAA



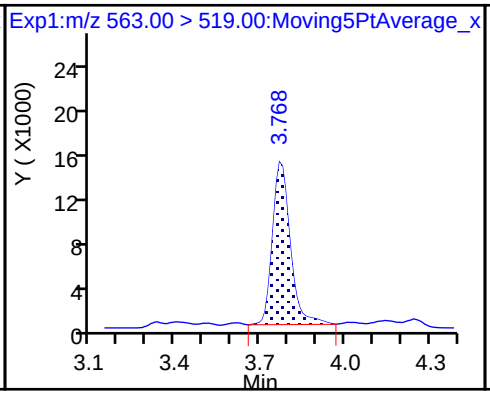
D 30 13C2 PFUnA



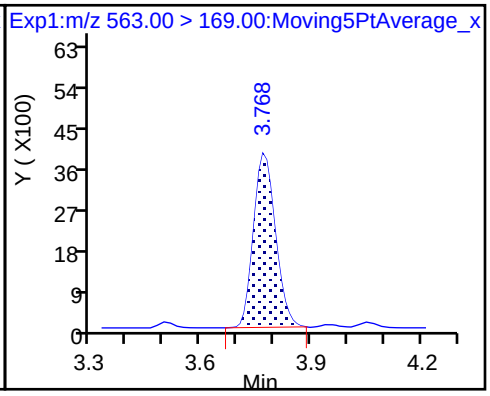
33 N-ethyl perfluorooctane sulfonamid



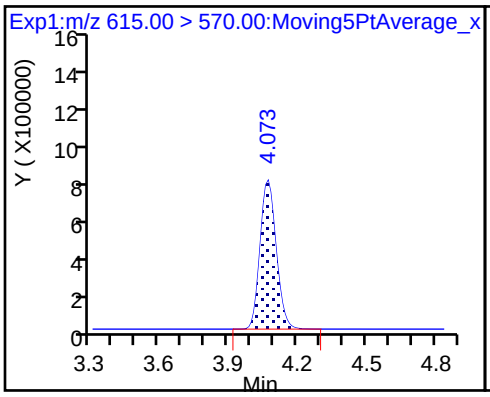
31 Perfluoroundecanoic acid



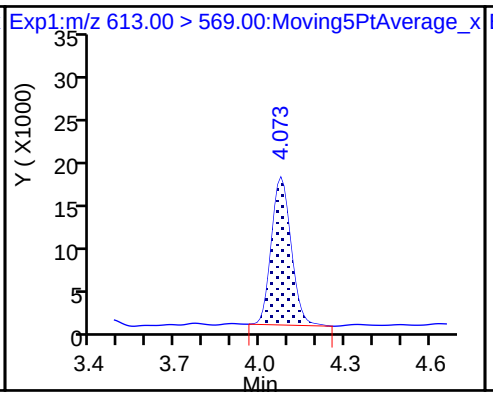
31 Perfluoroundecanoic acid



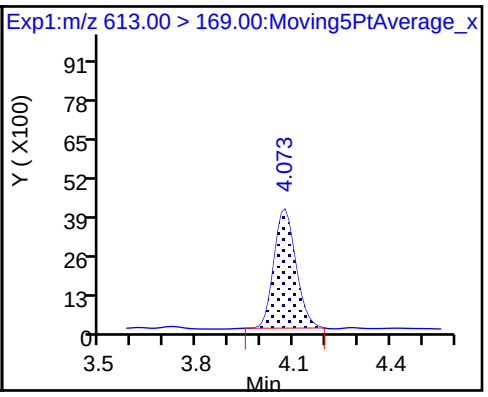
D 36 13C2 PFDoA



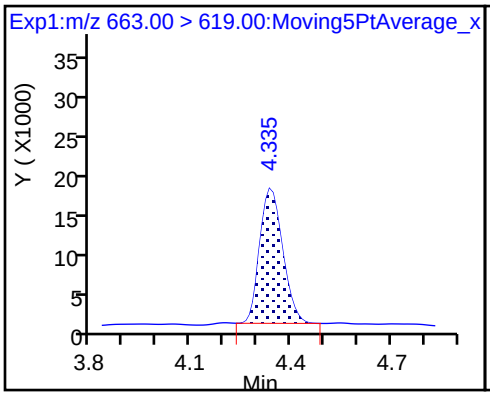
37 Perfluorododecanoic acid



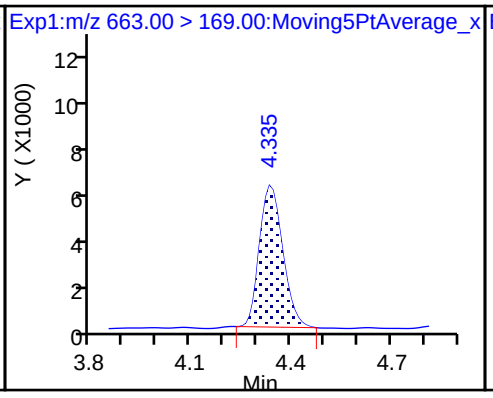
37 Perfluorododecanoic acid



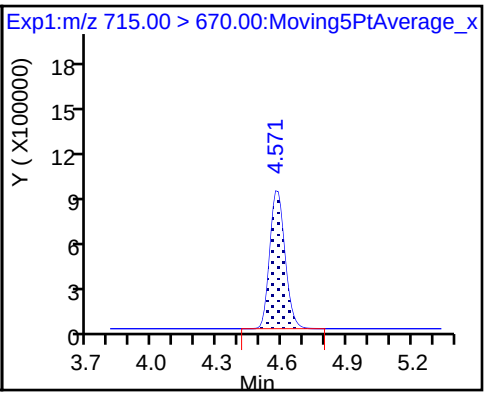
41 Perfluorotridecanoic acid



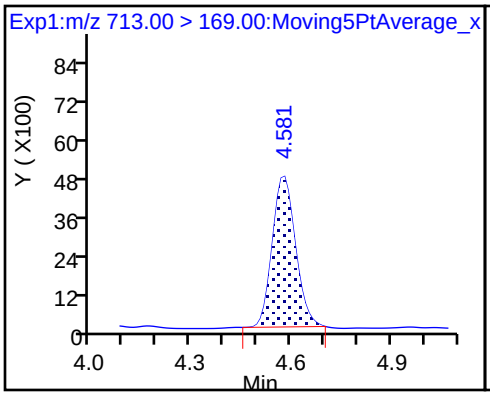
41 Perfluorotridecanoic acid



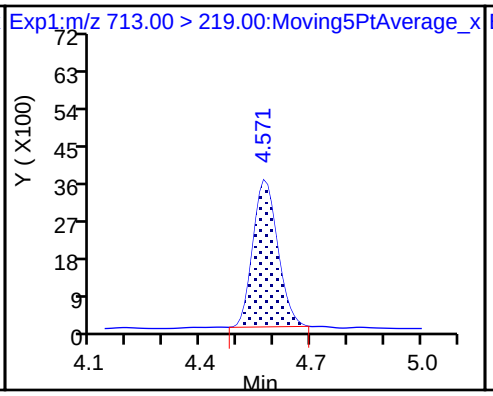
D 43 13C2-PFTeDA



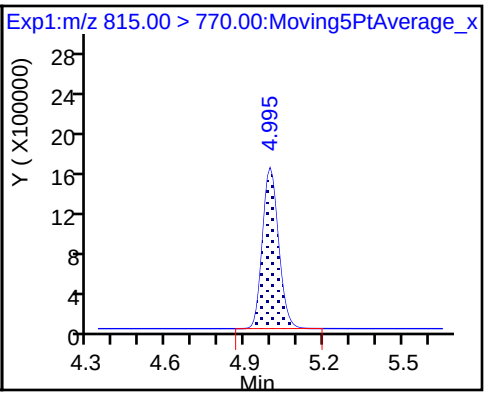
42 Perfluorotetradecanoic acid



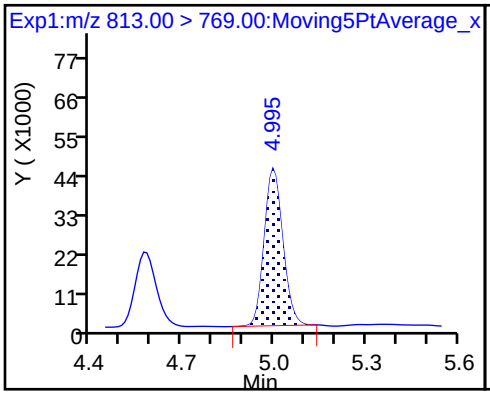
42 Perfluorotetradecanoic acid



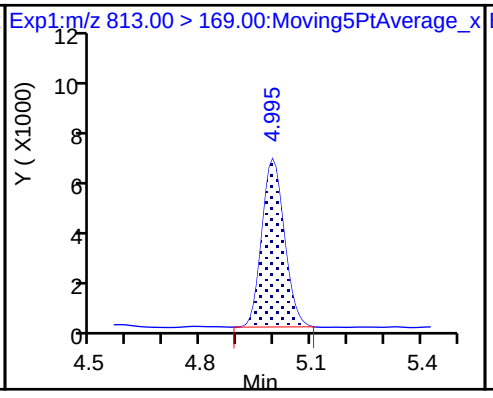
D 44 13C2-PFHxDA



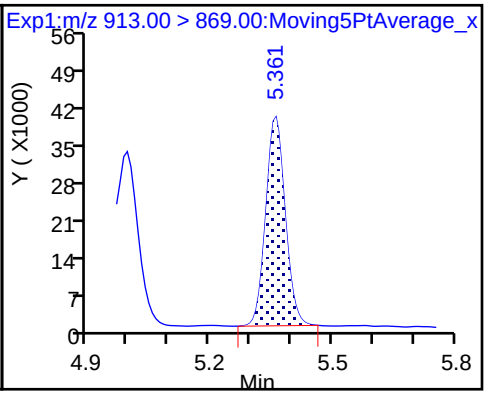
45 Perfluorohexadecanoic acid



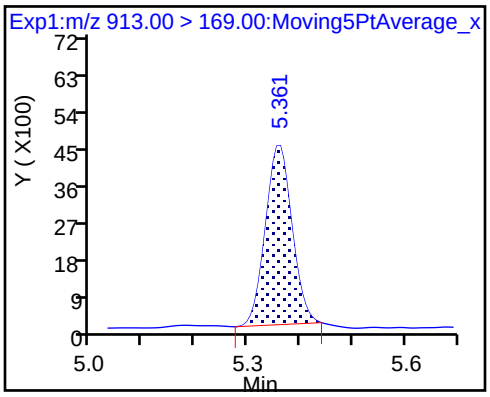
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Mar-2018 18:39:58 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:31 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:23:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.447	1.447	0.0	0.536	6702182	2.53		101	75015	
2 Perfluorobutyric acid										
212.90 > 169.00	1.447	1.449	-0.002	1.000	612393	0.2424		97.0	243	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.634	4509425	2.56		102	109848	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	514727	0.2531		101	294	
D 47 13C3-PFBS										
301.90 > 83.00	1.745	1.743	0.002	0.647	96305	2.40		103	583	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.745	1.745	0.0	1.000	700112	0.2175		98.4	3860	
298.90 > 99.00	1.745	1.745	0.0	1.000	305236		2.29(1.25-3.74)	98.4	1868	
D 60 M2-4:2FTS										
329.00 > 81.00	1.956	1.959	-0.003	0.725	671337	2.42		104	8849	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.966	1.962	0.004	1.000	157752	0.2358		101	9759	
D 7 13C2 PFHxA										
315.00 > 270.00	1.998	1.998	0.0	0.741	4935175	2.53		101	100521	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.998	1.998	0.0	1.000	497709	0.2466		98.6	1488	
313.00 > 119.00	1.998	1.998	0.0	1.000	45082		11.04(5.03-15.10)	98.6	905	
D 9 13C4-PFHpA										
367.00 > 322.00	2.328	2.333	-0.005	0.863	5071076	2.64		106	96377	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.328	2.335	-0.007	1.000	497784	0.2372		94.9	1108	
363.00 > 169.00	2.328	2.335	-0.007	1.000	196215		2.54(1.13-3.40)	94.9	2375	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.341	2.346	-0.005	1.000	586824	0.2123		93.3	5073	
399.00 > 99.00	2.341	2.346	-0.005	1.000	193855		3.03(1.50-4.49)	93.3	806	
D 11 18O2 PFHxS										
403.00 > 84.00	2.341	2.348	-0.007	0.868	5874354	2.48		105	67207	
D 12 M2-6:2FTS										
429.00 > 81.00	2.673	2.672	0.001	0.991	956838	2.40		101	20351	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.673	2.672	0.001	1.000	166250	0.2367		99.9	7823	
D 14 13C4 PFOA										
417.00 > 372.00	2.697	2.695	0.002	1.000	5033130	2.56		102	66085	
* 62 13C2-PFOA										
415.00 > 370.00	2.697	2.695	0.002		5240249	2.50			72893	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.697	2.697	0.0	1.000	551855	0.2426		97.1	186	
413.00 > 169.00	2.697	2.697	0.0	1.000	289099		1.91(0.84-2.52)	97.1	792	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.705	2.703	0.002	1.000	539007	0.2372		99.7	10606	
449.00 > 99.00	2.705	2.703	0.002	1.000	146271		3.68(1.94-5.82)	99.7	2312	
D 18 13C4 PFOS										
503.00 > 80.00	3.065	3.068	-0.003	1.137	4237867	2.46		103	39217	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.072	3.070	0.002	1.002	451427	0.2285		98.5	1564	
499.00 > 99.00	3.072	3.070	0.002	1.002	100623		4.49(2.31-6.93)	98.5	894	
D 19 13C5 PFNA										
468.00 > 423.00	3.072	3.070	0.002	1.139	4472333	2.58		103	73916	
20 Perfluorononanoic acid										
463.00 > 419.00	3.072	3.072	0.0	1.000	441188	0.2472		98.9	582	
463.00 > 169.00	3.072	3.072	0.0	1.000	113267		3.90(1.90-5.69)	98.9	1929	
D 21 13C8 FOSA										
506.00 > 78.00	3.399	3.396	0.003	1.260	6203337	2.67		107	61203	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.399	3.397	0.002	1.000	592188	0.2421		96.8	13446	
D 26 M2-8:2FTS										
529.00 > 81.00	3.426	3.426	0.0	1.270	1407067	2.62		109	26205	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.426	3.426	0.0	1.000	176483	0.2354		98.3	7854	
D 23 13C2 PFDA										
515.00 > 470.00	3.435	3.435	0.0	1.274	3933118	2.59		104	68284	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.435	3.435	0.0	1.000	394276	0.2536		101	1808	
513.00 > 169.00	3.435	3.435	0.0	1.000	66021		5.97(2.36-7.09)	101	3009	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.590	3.591	-0.001	1.331	2099631	2.63		105	32210	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.590	3.594	-0.004	1.000	219720	0.2614		105	1753	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.748	3.749	-0.001	1.000	279040	0.2314		96.0	7395	
599.00 > 99.00	3.748	3.749	-0.001	1.000	91540		3.05(1.39-4.16)	96.0	3261	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.758	3.759	-0.001	1.394	2467789	2.71		108	15339	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.769	3.768	0.001	1.000	286311	0.2221		88.9	1276	
563.00 > 169.00	3.769	3.768	0.001	1.000	74133		3.86(2.12-6.36)	88.9	2992	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.769	3.768	0.001	1.003	224858	0.2438		97.5	5777	
D 30 13C2 PFUnA										
565.00 > 520.00	3.769	3.768	0.001	1.397	3737470	2.75		110	87838	
D 36 13C2 PFDoA										
615.00 > 570.00	4.068	4.066	0.002	1.508	3986883	2.59		103	35715	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.068	4.068	0.0	1.000	407079	0.2439		97.6	349	
613.00 > 169.00	4.068	4.068	0.0	1.000	100267		4.06(2.13-6.40)	97.6	2078	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.329	4.329	-0.001	1.000	437729	0.2494		99.7	324	
663.00 > 169.00	4.329	4.329	-0.001	1.000	138849		3.15(1.25-3.76)	99.7	2090	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.564	4.568	-0.004	1.692	4783571	2.54		102	32092	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.575	4.571	0.004	1.002	118401	0.2497		99.9	1652	
713.00 > 219.00	4.564	4.571	-0.007	1.000	85338		1.39(0.71-2.13)	99.9	2012	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.990	4.987	0.003	1.850	8384119	2.72		109	19806	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.990	4.989	0.001	1.000	829775	0.2480		99.2	259	
813.00 > 169.00	4.990	4.989	0.001	1.000	141643		5.86(2.86-8.58)	99.2	1896	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.355	5.354	0.001	1.000	760025	0.2451		98.0	259	
913.00 > 169.00	5.355	5.354	0.001	1.000	94500		8.04(3.83-11.48)	98.0	1322	

Reagents:

LCPFC_LL3_00004 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_004.d

Injection Date: 21-Mar-2018 18:39:58 Instrument ID: A8_N

Lims ID: IC L3 Full

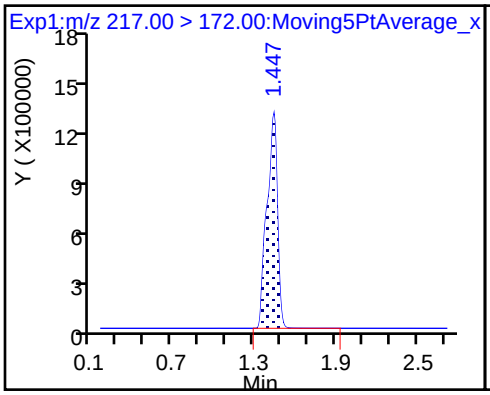
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

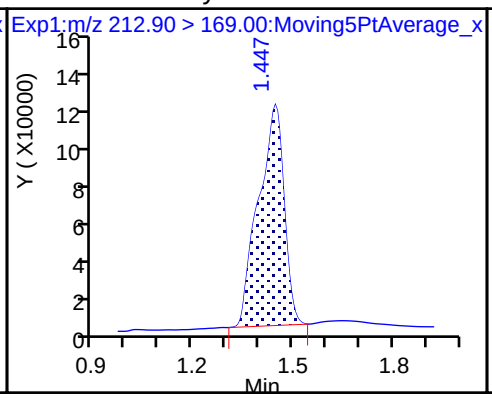
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

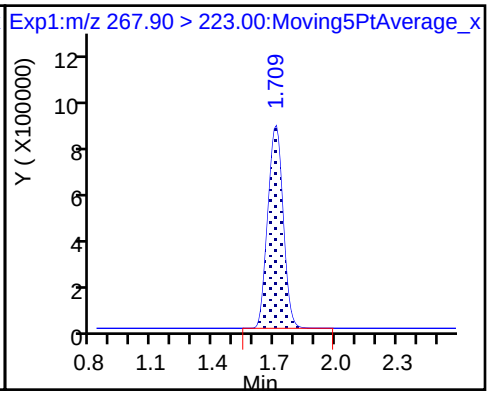
D 1 13C4 PFBA



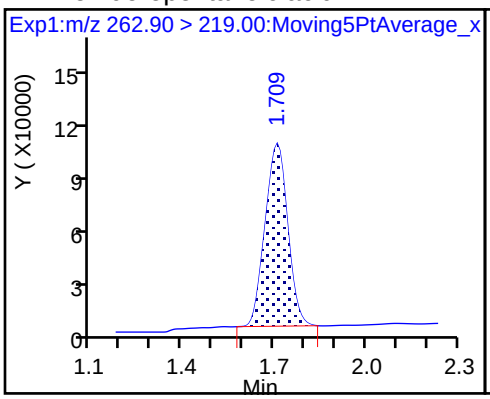
2 Perfluorobutyric acid



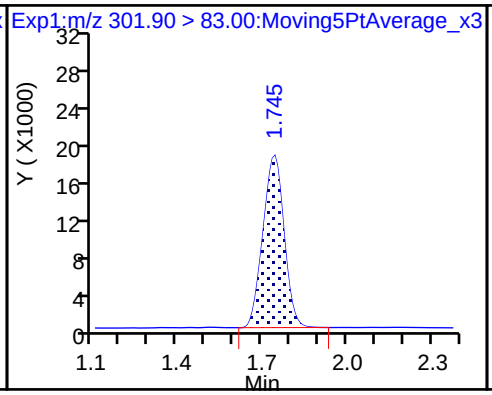
D 3 13C5-PFPeA



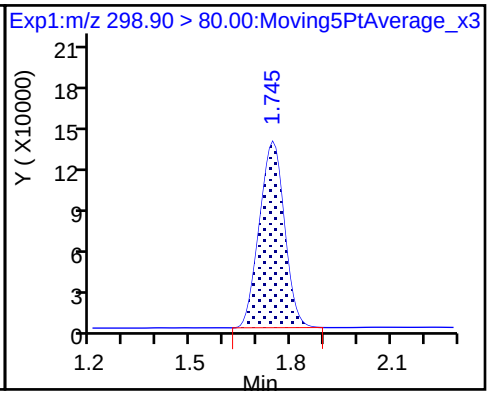
4 Perfluoropentanoic acid



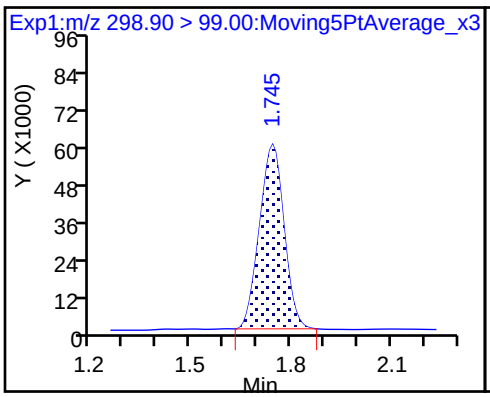
D 47 13C3-PFBS



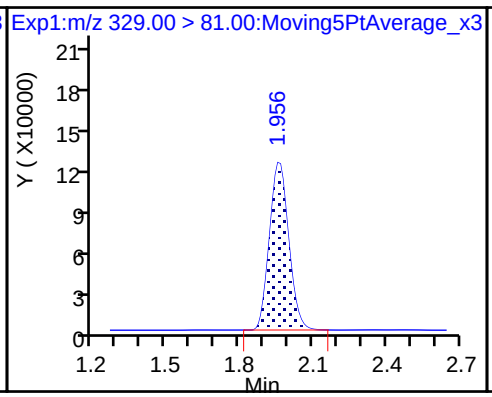
5 Perfluorobutanesulfonic acid



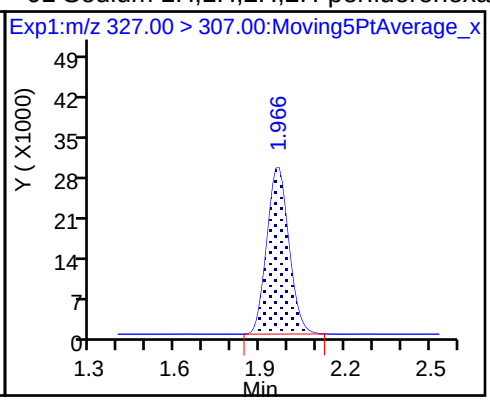
5 Perfluorobutanesulfonic acid



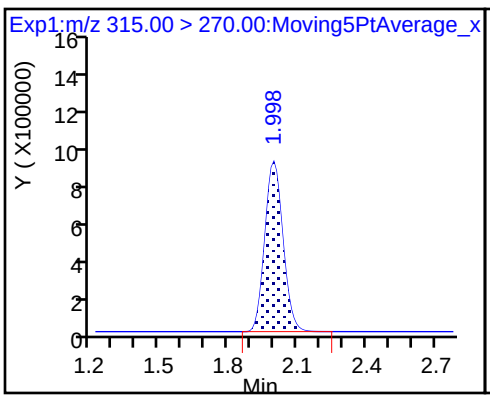
D 60 M2-4:2FTS



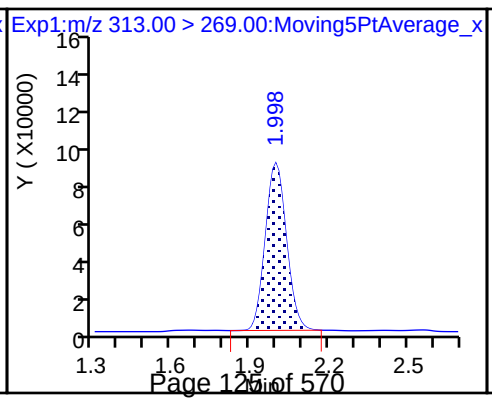
61 Sodium 1H,1H,2H,2H-perfluorohexane



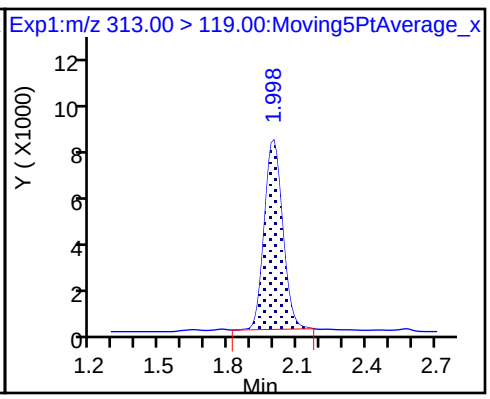
D 7 13C2 PFHxA



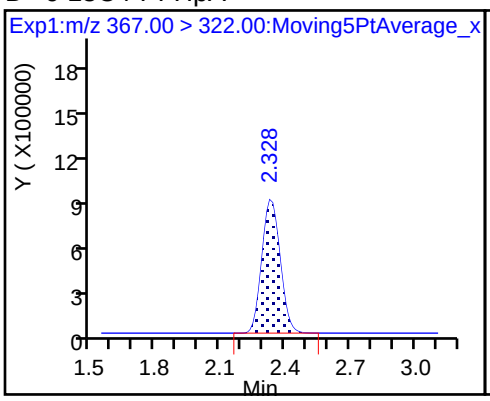
6 Perfluorohexanoic acid



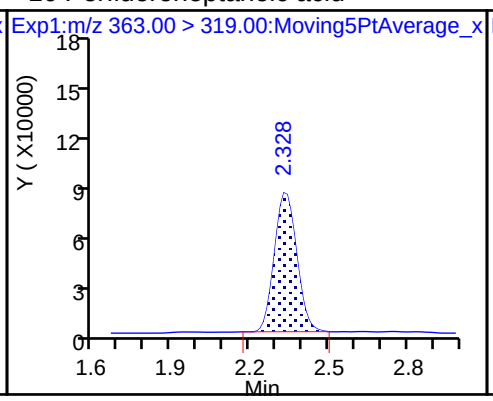
6 Perfluorohexanoic acid



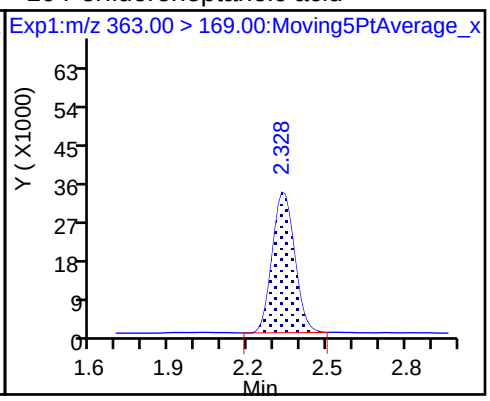
D 9 13C4-PFHpA



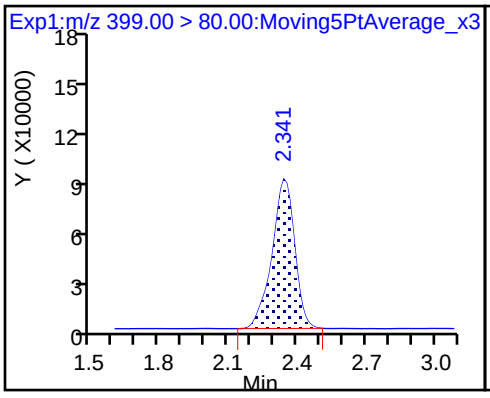
10 Perfluoroheptanoic acid



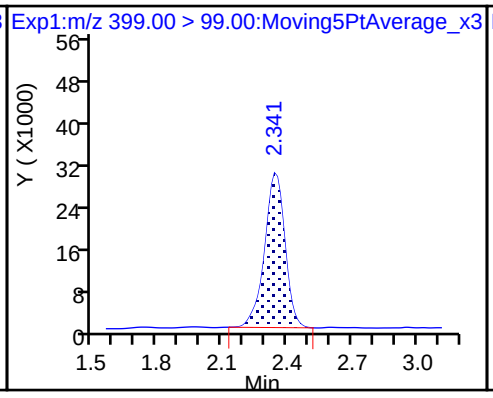
10 Perfluoroheptanoic acid



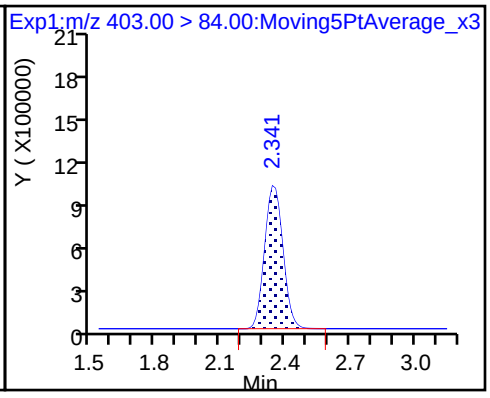
8 Perfluorohexanesulfonic acid



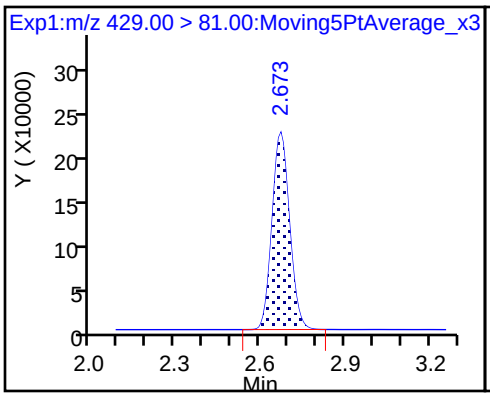
8 Perfluorohexanesulfonic acid



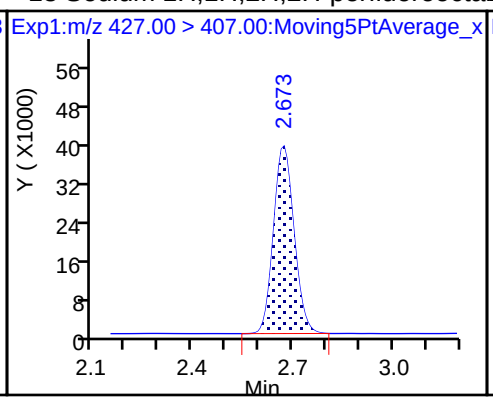
D 11 18O2 PFHxS



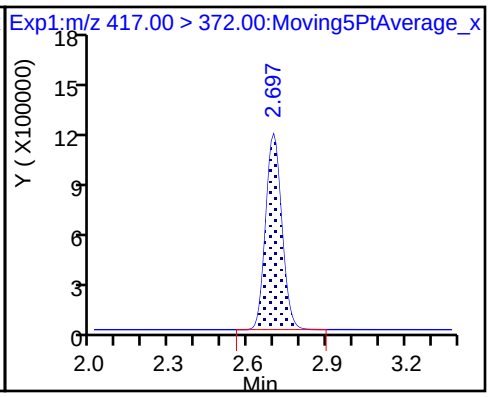
D 12 M2-6:2FTS



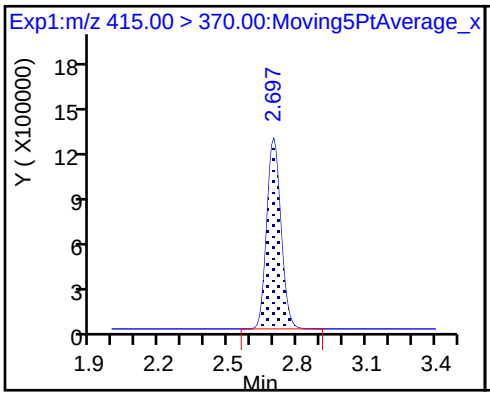
13 Sodium 1H,1H,2H,2H-perfluorooctane



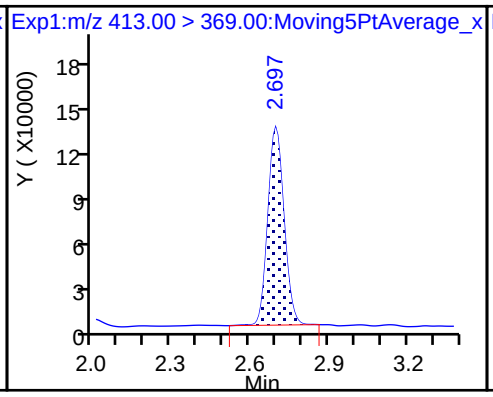
D 14 13C4 PFOA



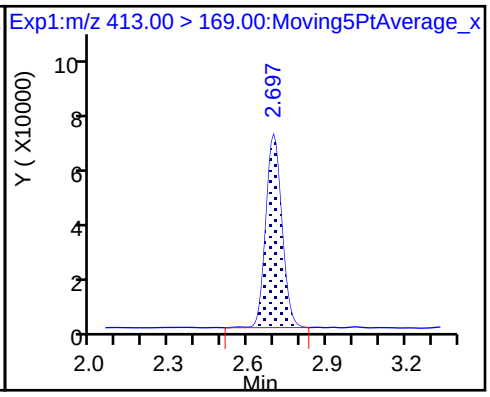
* 62 13C2-PFOA



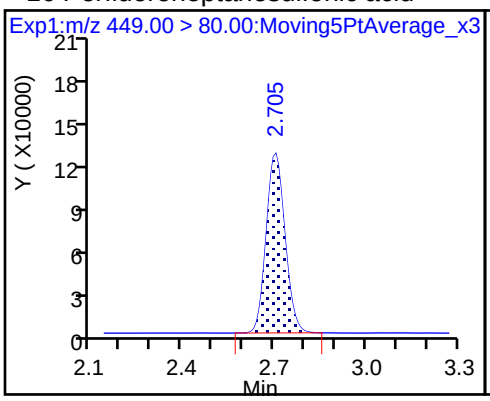
15 Perfluorooctanoic acid



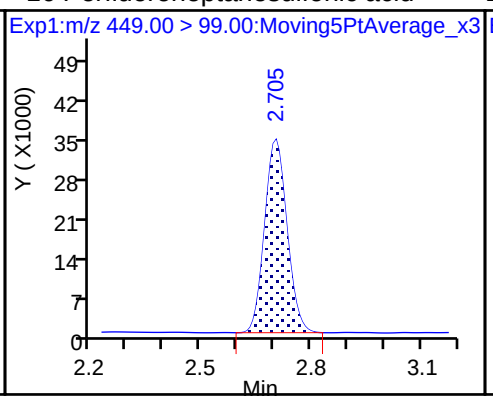
15 Perfluorooctanoic acid



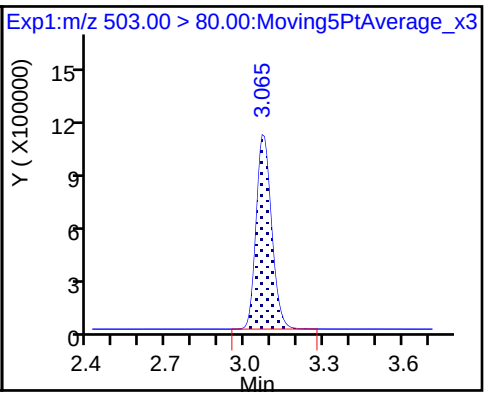
16 Perfluoroheptanesulfonic acid



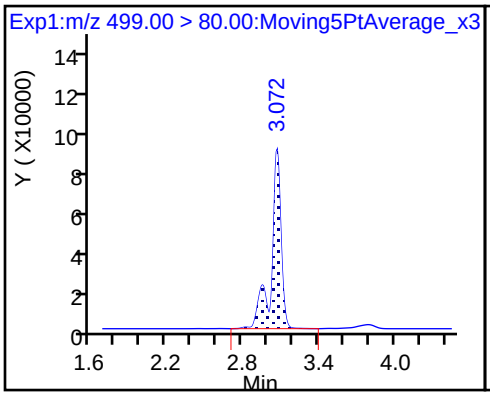
16 Perfluoroheptanesulfonic acid



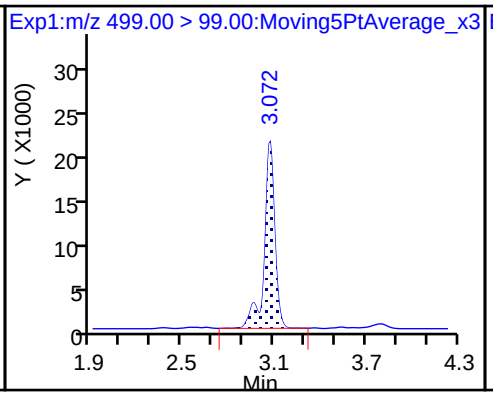
D 18 13C4 PFOS



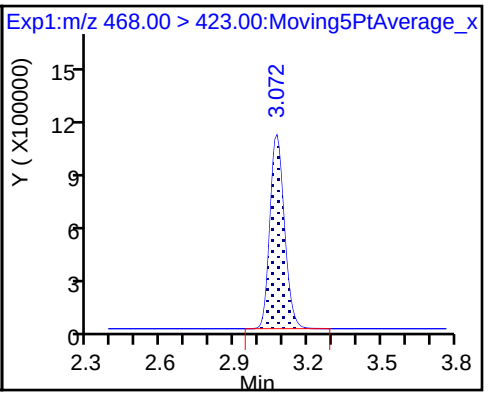
17 Perfluorooctane sulfonic acid



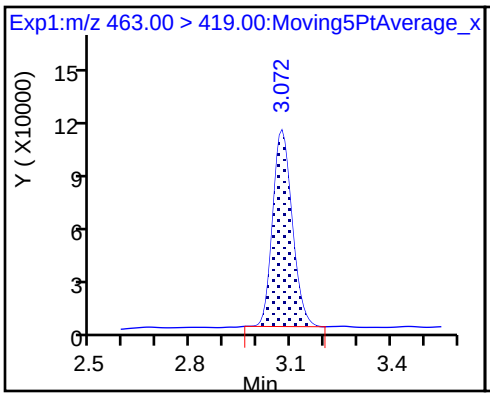
17 Perfluorooctane sulfonic acid



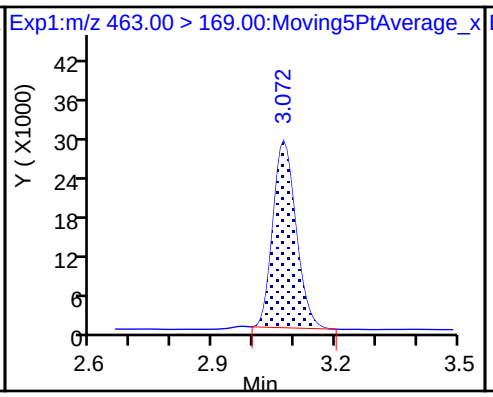
D 19 13C5 PFNA



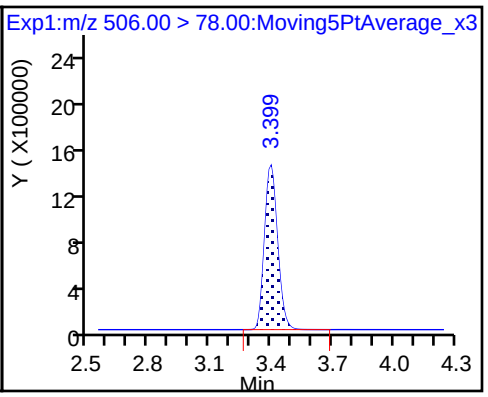
20 Perfluorononanoic acid



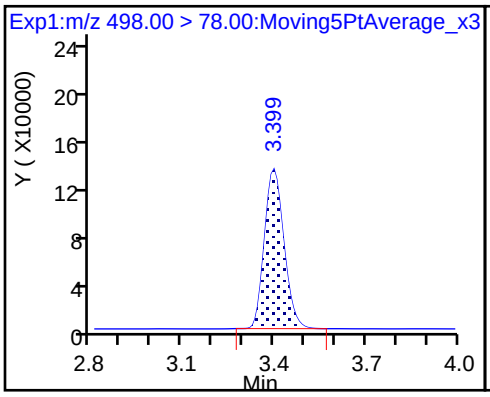
20 Perfluorononanoic acid



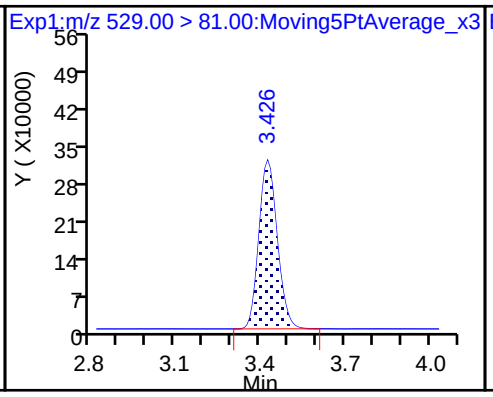
D 21 13C8 FOSA



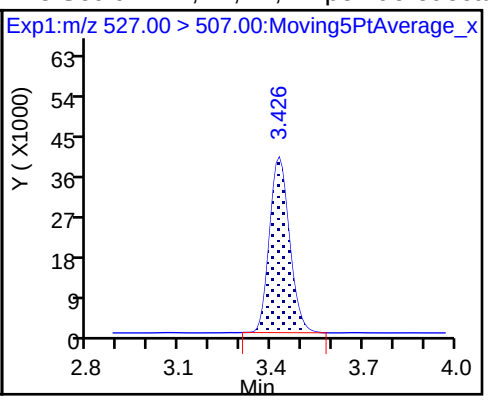
22 Perfluorooctane Sulfonamide



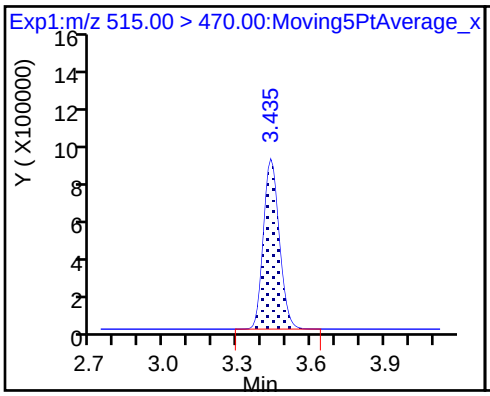
D 26 M2-8:2FTS



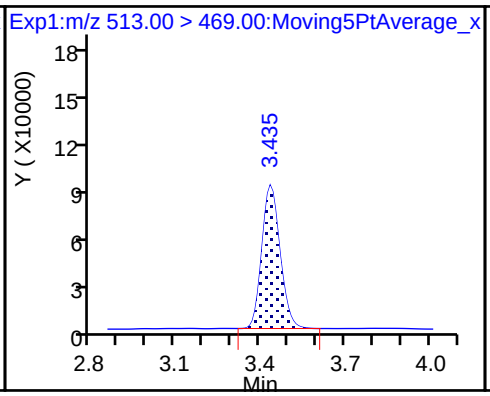
25 Sodium 1H,1H,2H,2H-perfluorodecane



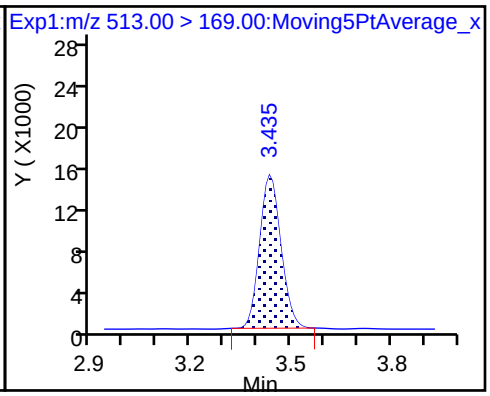
D 23 13C2 PFDA



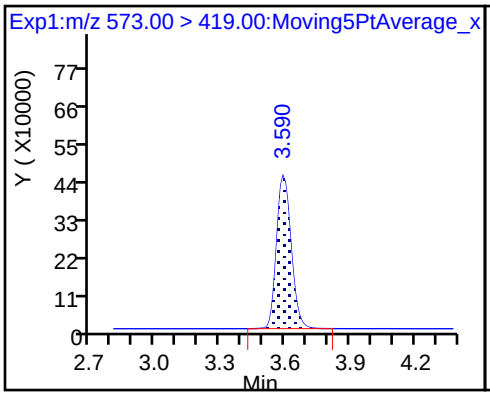
24 Perfluorodecanoic acid



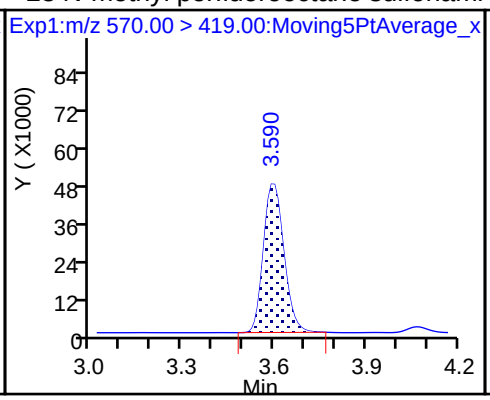
24 Perfluorodecanoic acid



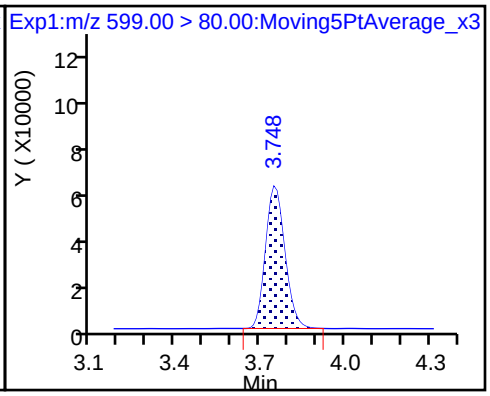
D 27 d3-NMeFOSAA



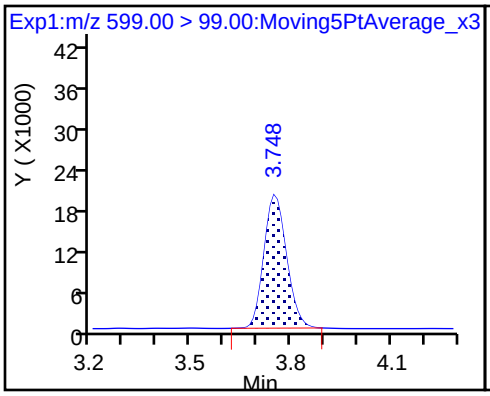
28 N-methyl perfluorooctane sulfonami



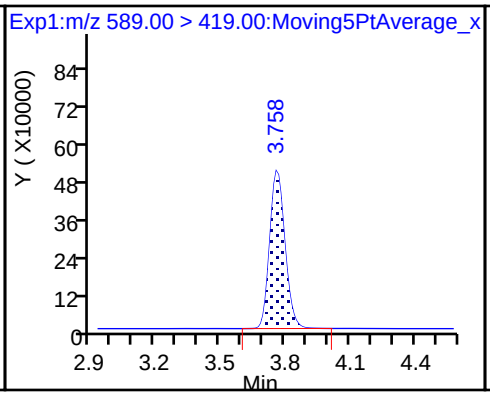
29 Perfluorodecane Sulfonic acid



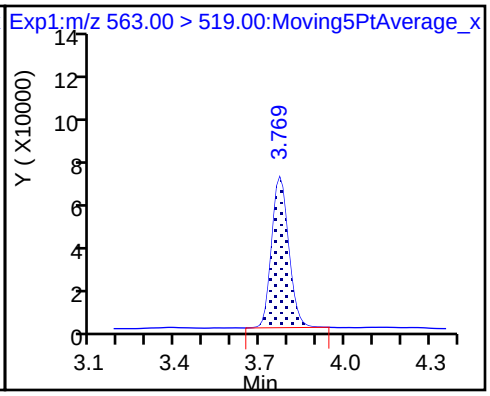
29 Perfluorodecane Sulfonic acid



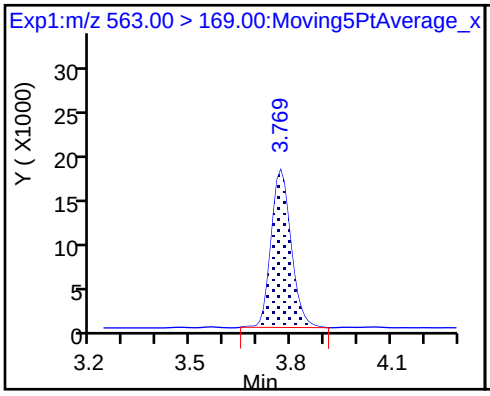
D 32 d5-NEtFOSAA



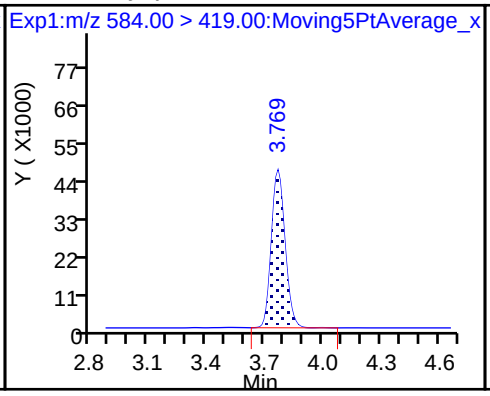
31 Perfluoroundecanoic acid



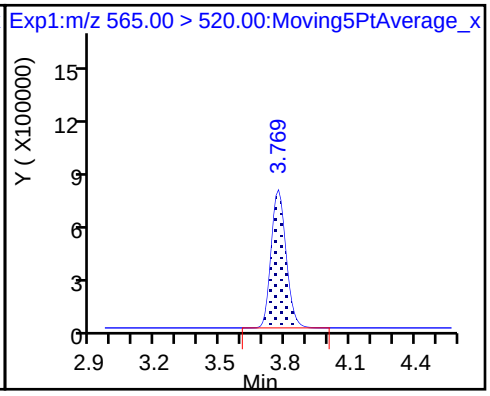
31 Perfluoroundecanoic acid



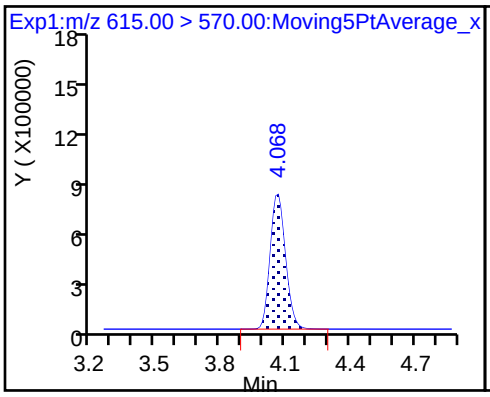
33 N-ethyl perfluorooctane sulfonamid



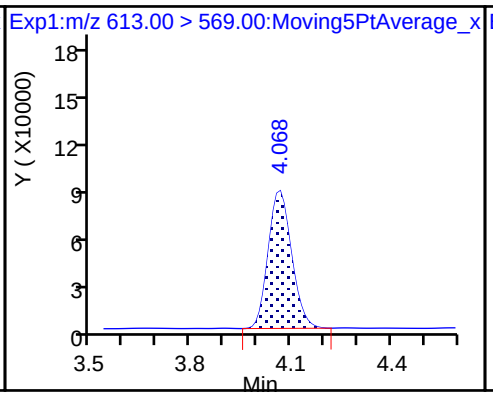
D 30 13C2 PFUnA



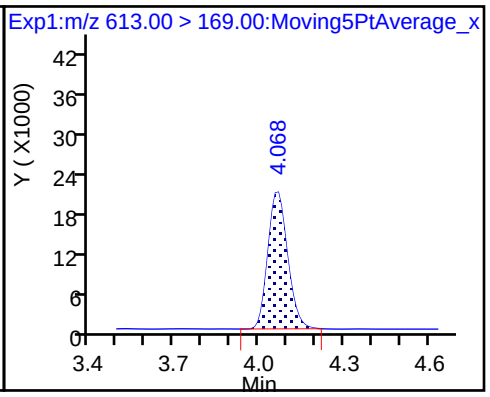
D 36 13C2 PFDoA



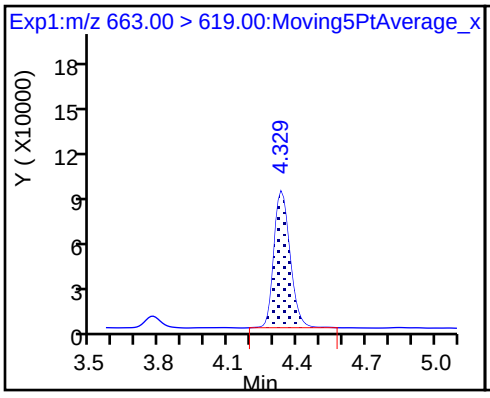
37 Perfluorododecanoic acid



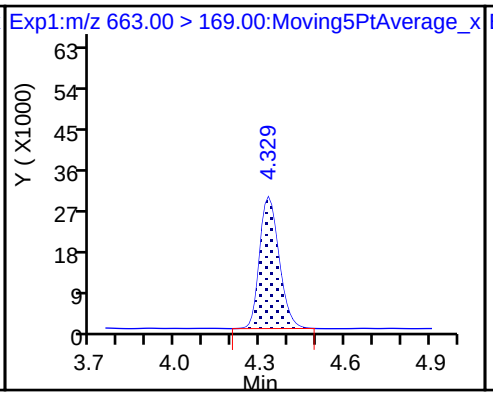
37 Perfluorododecanoic acid



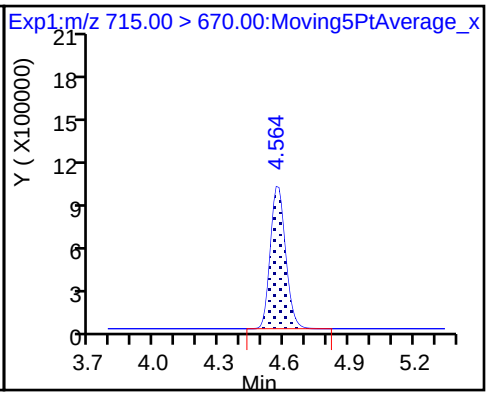
41 Perfluorotridecanoic acid



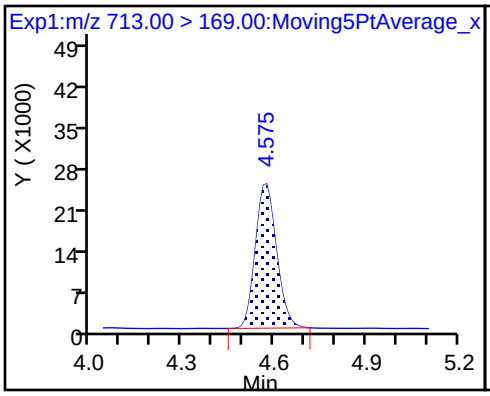
41 Perfluorotridecanoic acid



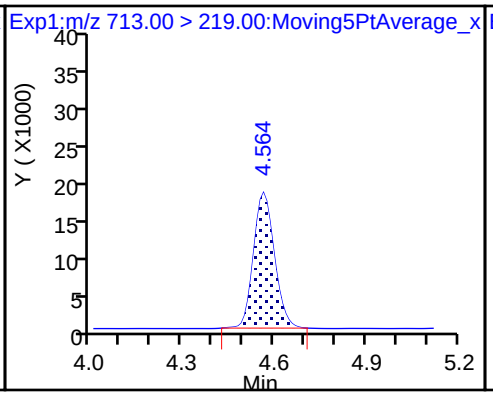
D 43 13C2-PFTeDA



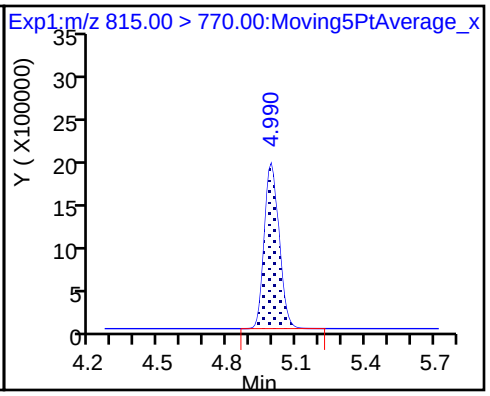
42 Perfluorotetradecanoic acid



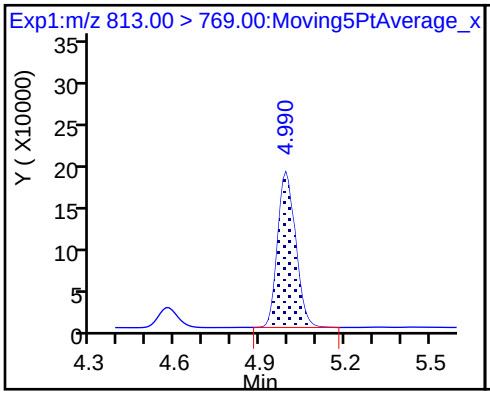
42 Perfluorotetradecanoic acid



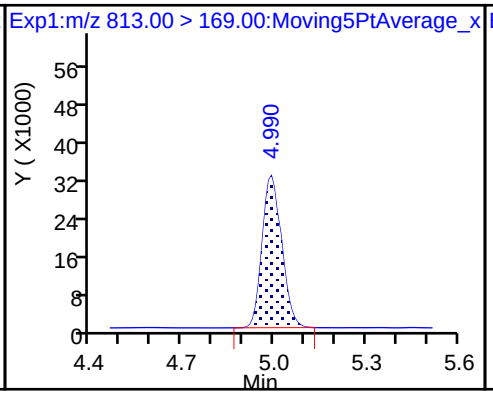
D 44 13C2-PFHxDA



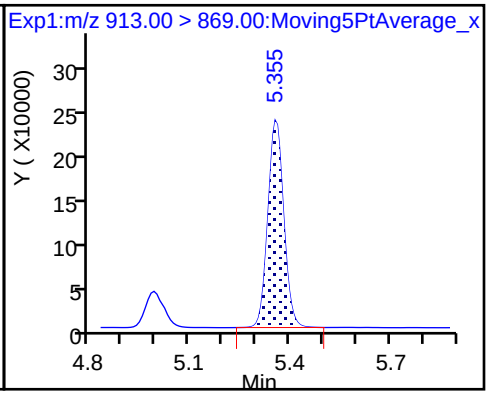
45 Perfluorohexadecanoic acid



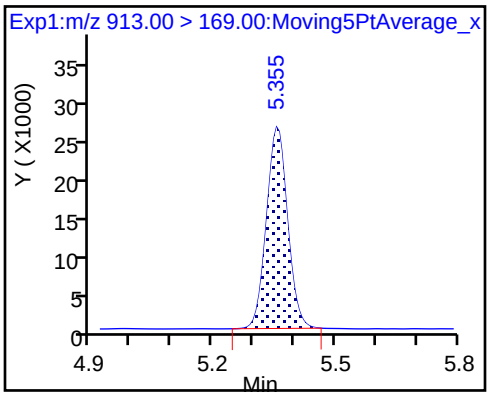
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 21-Mar-2018 18:47:49 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:36 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:24:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.447	1.447	0.0	0.537	6677108	2.48		99.3	91884	
2 Perfluorobutyric acid										
212.90 > 169.00	1.447	1.449	-0.002	1.000	2414180	0.9593		95.9	1039	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	1955236	0.9777		97.8	1101	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.634	4434133	2.49		99.4	122232	
D 47 13C3-PFBS										
301.90 > 83.00	1.745	1.743	0.002	0.647	94733	2.33		100	728	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.745	1.745	0.0	1.000	2745542	0.8672		98.1	15073	
298.90 > 99.00	1.745	1.745	0.0	1.000	1158456		2.37(1.25-3.74)	98.1	8636	
D 60 M2-4:2FTS										
329.00 > 81.00	1.956	1.959	-0.003	0.725	673891	2.40		103	7759	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.962	-0.006	1.000	585674	0.8899		95.3	36020	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.998	1.998	0.0	1.000	1895160	0.9434		94.3	5502	
313.00 > 119.00	1.998	1.998	0.0	1.000	171177		11.07(5.03-15.10)	94.3	5106	
D 7 13C2 PFHxA										
315.00 > 270.00	1.998	1.998	0.0	0.741	4912134	2.49		99.6	148634	
D 9 13C4-PFHpA										
367.00 > 322.00	2.328	2.333	-0.005	0.863	4906862	2.52		101	91934	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.328	2.335	-0.007	1.000	1917800	0.9445		94.5	4030	
363.00 > 169.00	2.328	2.335	-0.007	1.000	781323		2.45(1.13-3.40)	94.5	11000	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.341	2.346	-0.005	1.000	2255246	0.8437		92.7	14407	
399.00 > 99.00	2.341	2.346	-0.005	1.000	758154		2.97(1.50-4.49)	92.7	2920	
D 11 18O2 PFHxS										
403.00 > 84.00	2.341	2.348	-0.007	0.868	5679886	2.37		100	64479	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.673	2.672	0.001	1.000	658727	0.9206		97.1	39075	
D 12 M2-6:2FTS										
429.00 > 81.00	2.673	2.672	0.001	0.991	974611	2.41		102	32347	
* 62 13C2-PFOA										
415.00 > 370.00	2.697	2.695	0.002		5311138	2.50			78253	
D 14 13C4 PFOA										
417.00 > 372.00	2.697	2.695	0.002	1.000	5161114	2.59		104	75890	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.697	2.697	0.0	1.000	2181038	0.9352		93.5	739	
413.00 > 169.00	2.697	2.697	0.0	1.000	1079898		2.02(0.84-2.52)	93.5	2905	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.705	2.703	0.002	1.000	2094073	0.9272		97.4	32757	
449.00 > 99.00	2.705	2.703	0.002	1.000	562149		3.73(1.94-5.82)	97.4	7735	
D 18 13C4 PFOS										
503.00 > 80.00	3.065	3.068	-0.003	1.137	4212796	2.41		101	38767	
D 19 13C5 PFNA										
468.00 > 423.00	3.072	3.070	0.002	1.139	4473666	2.55		102	61714	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.072	3.070	0.002	1.002	1712110	0.8720		94.0	5345	
499.00 > 99.00	3.065	3.070	-0.005	1.000	388300		4.41(2.31-6.93)	94.0	3489	
20 Perfluorononanoic acid										
463.00 > 419.00	3.072	3.072	0.0	1.000	1707633	0.9567		95.7	2306	
463.00 > 169.00	3.072	3.072	0.0	1.000	412933		4.14(1.90-5.69)	95.7	8555	
D 21 13C8 FOSA										
506.00 > 78.00	3.399	3.396	0.003	1.260	5926892	2.52		101	51859	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.399	3.397	0.002	1.000	2348890	1.01		101	35724	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.426	3.426	0.0	1.000	628171	0.9357		97.7	12703	
D 26 M2-8:2FTS										
529.00 > 81.00	3.426	3.426	0.0	1.270	1259787	2.31		96.5	25503	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.435	3.435	0.0	1.000	1449524	0.9682		96.8	7703	
513.00 > 169.00	3.435	3.435	0.0	1.000	250563		5.79(2.36-7.09)	96.8	5629	
D 23 13C2 PFDA										
515.00 > 470.00	3.435	3.435	0.0	1.274	3787833	2.46		98.4	60985	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.592	3.591	0.001	1.332	2005802	2.48		99.0	38757	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.592	3.594	-0.002	1.000	764025	0.9515		95.2	5524	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.750	3.749	0.001	1.000	1089522	0.9090		94.3	25437	
599.00 > 99.00	3.750	3.749	0.001	1.000	401224		2.72(1.39-4.16)	94.3	7593	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.760	3.759	0.001	1.394	2399407	2.60		104	12942	
D 30 13C2 PFUnA										
565.00 > 520.00	3.770	3.768	0.002	1.398	3376806	2.45		98.1	53912	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.770	3.768	0.002	1.003	854457	0.9529		95.3	15864	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.770	3.768	0.002	1.000	1113457	0.9561		95.6	5076	
563.00 > 169.00	3.770	3.768	0.002	1.000	264745		4.21(2.12-6.36)	95.6	9089	
D 36 13C2 PFDoA										
615.00 > 570.00	4.059	4.066	-0.007	1.505	3947765	2.53		101	38697	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.069	4.068	0.001	1.003	1543700	0.9343		93.4	1390	
613.00 > 169.00	4.069	4.068	0.001	1.003	381642		4.04(2.13-6.40)	93.4	5997	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.329	4.329	0.0	1.000	1762916	1.01		101	1166	
663.00 > 169.00	4.329	4.329	0.0	1.000	525318		3.36(1.25-3.76)	101	9931	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.565	4.568	-0.003	1.693	5036200	2.64		106	31784	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.565	4.571	-0.006	1.000	463840	0.9292		92.9	6420	
713.00 > 219.00	4.565	4.571	-0.006	1.000	332536		1.39(0.71-2.13)	92.9	6906	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.982	4.987	-0.005	1.847	8013194	2.56		102	20349	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.991	4.989	0.002	1.002	2896964	0.9702		97.0	883	
813.00 > 169.00	4.991	4.989	0.002	1.002	467916		6.19(2.86-8.58)	97.0	4401	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.352	5.354	-0.002	1.000	2837993	0.9576		95.8	899	
913.00 > 169.00	5.352	5.354	-0.002	1.000	349894		8.11(3.83-11.48)	95.8	3684	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_005.d

Injection Date: 21-Mar-2018 18:47:49 Instrument ID: A8_N

Lims ID: IC L4 Full

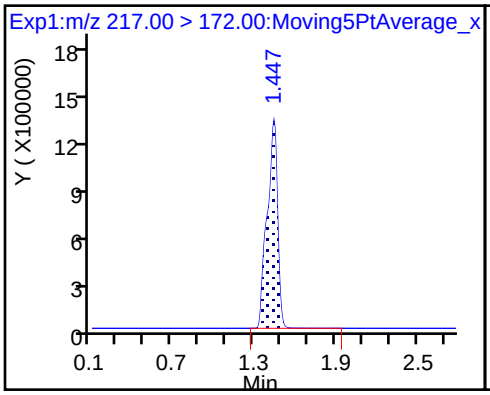
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

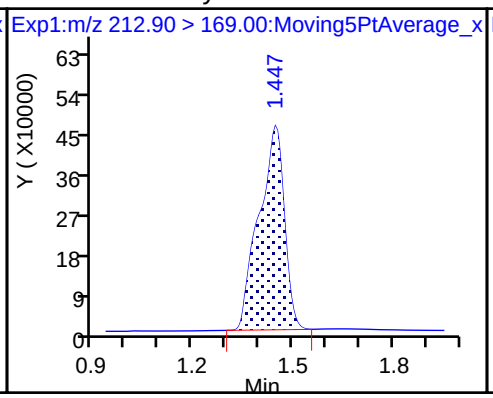
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

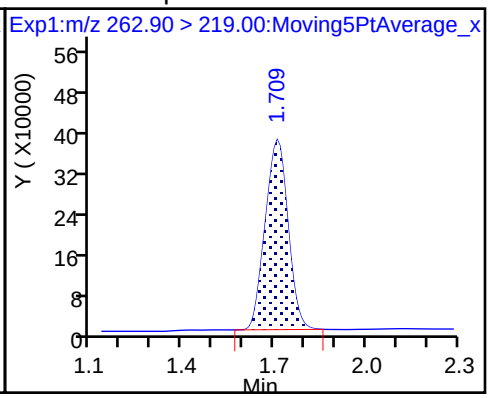
D 1 13C4 PFBA



2 Perfluorobutyric acid



4 Perfluoropentanoic acid



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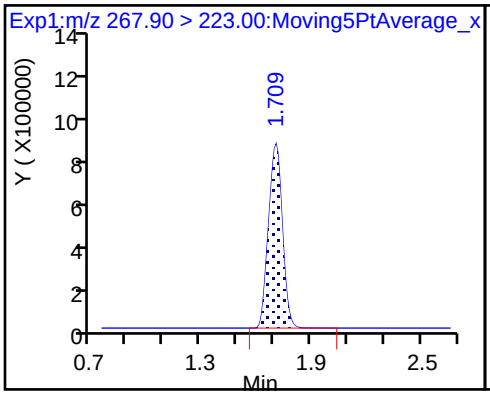
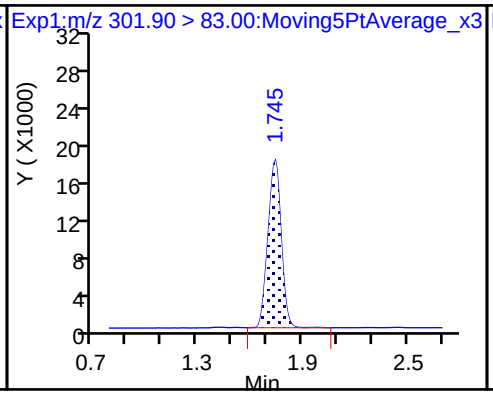
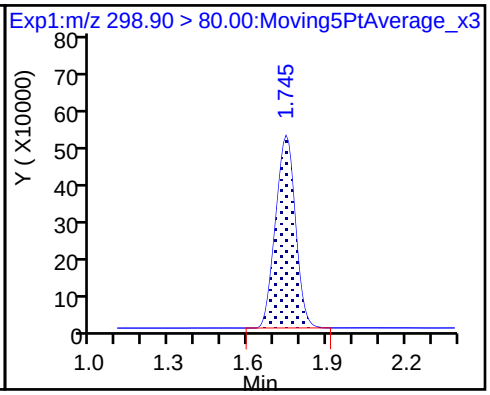


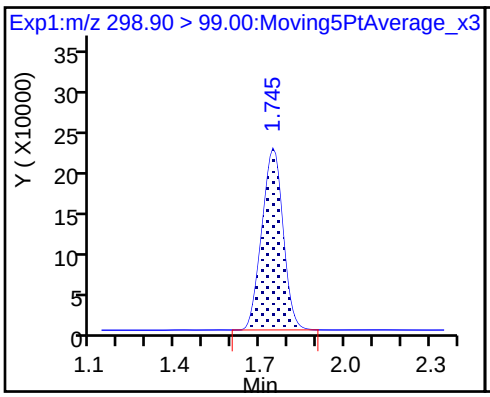
D 47 13C3-PFBS



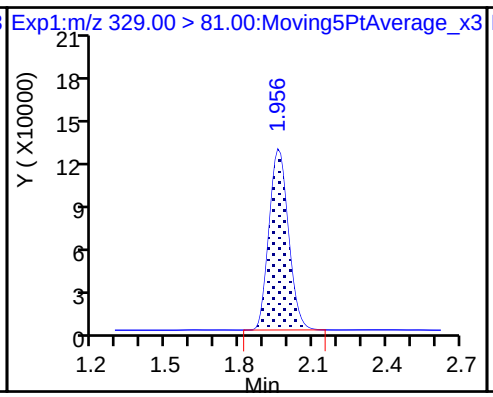
5 Perfluorobutanesulfonic acid



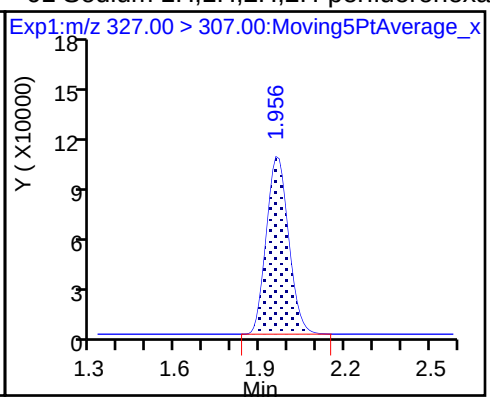
5 Perfluorobutanesulfonic acid



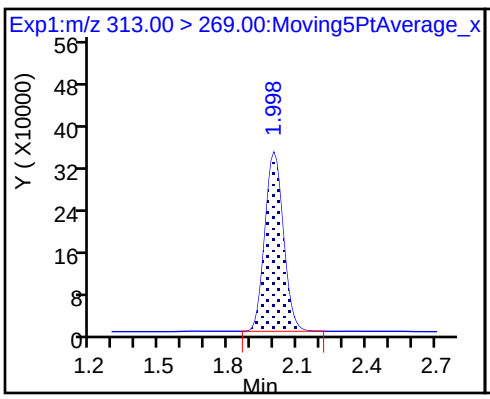
D 60 M2-4:2FTS



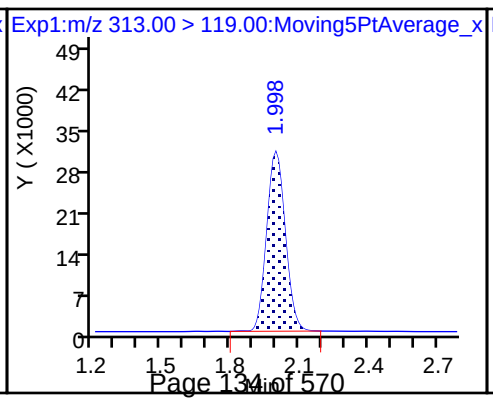
61 Sodium 1H,1H,2H,2H-perfluorohexane



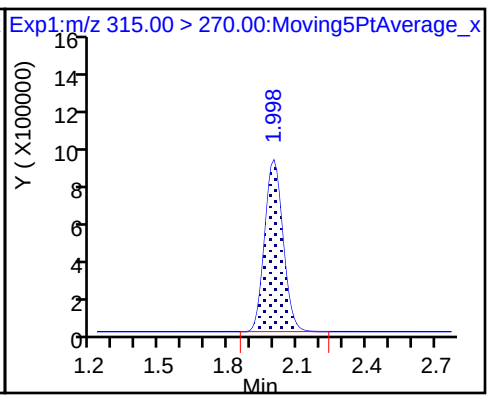
6 Perfluorohexanoic acid



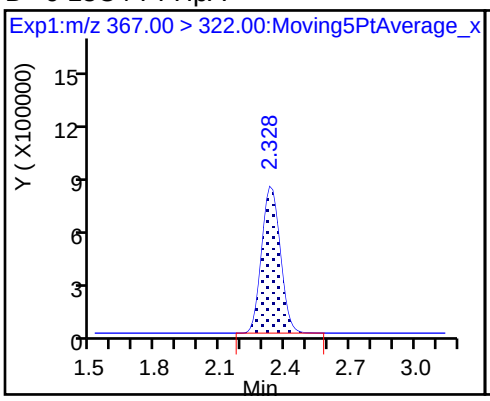
6 Perfluorohexanoic acid



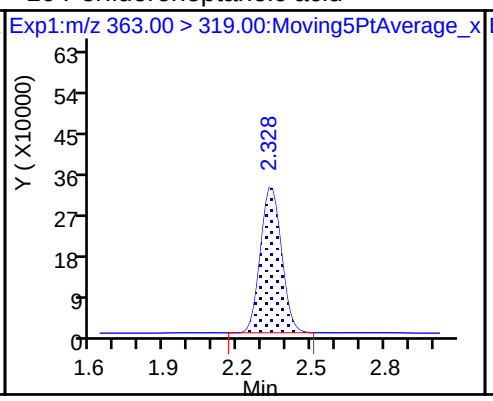
D 7 13C2 PFHxA



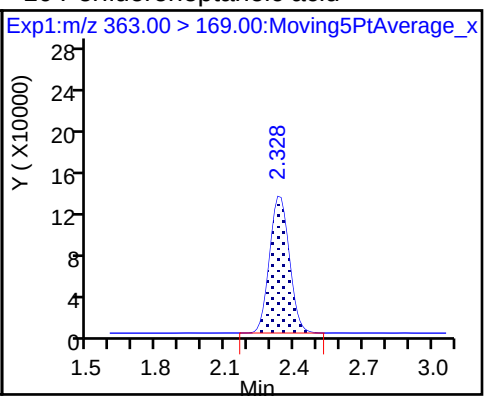
D 9 13C4-PFHpA



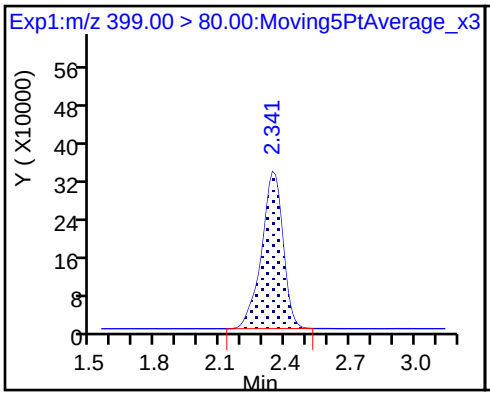
10 Perfluoroheptanoic acid



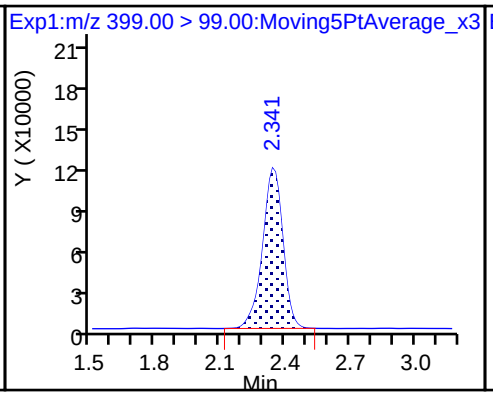
10 Perfluoroheptanoic acid



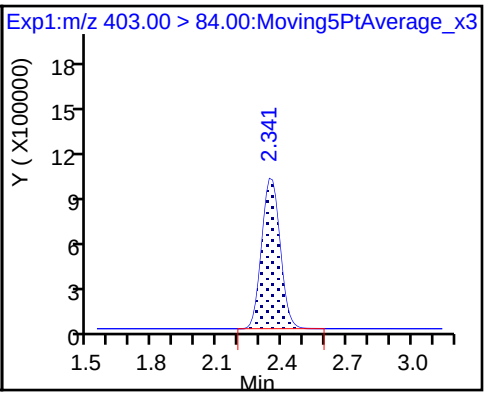
8 Perfluorohexanesulfonic acid



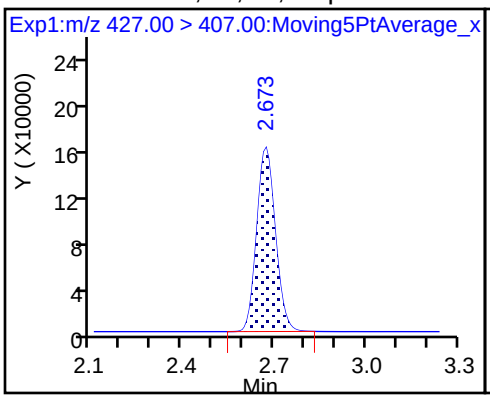
8 Perfluorohexanesulfonic acid



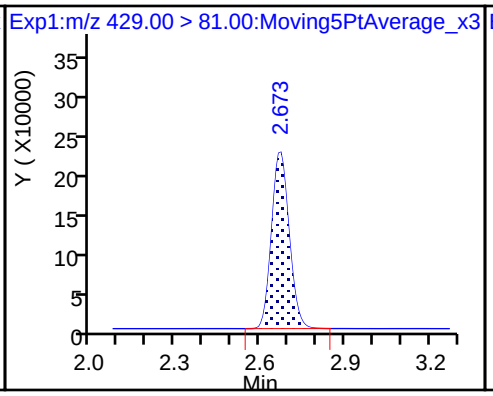
D 11 18O2 PFHxS



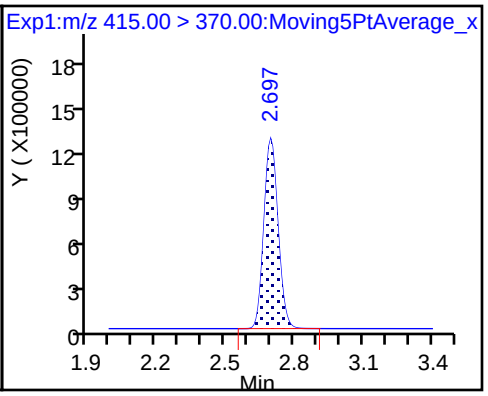
13 Sodium 1H,1H,2H,2H-perfluorooctan



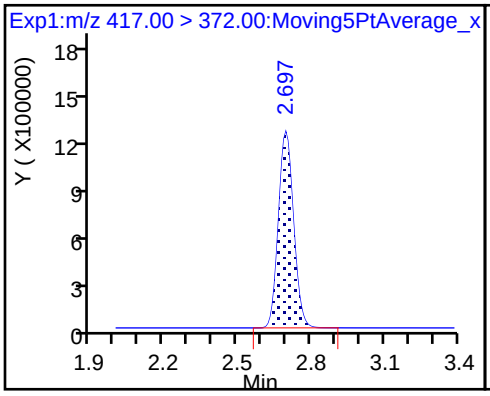
D 12 M2-6:2FTS



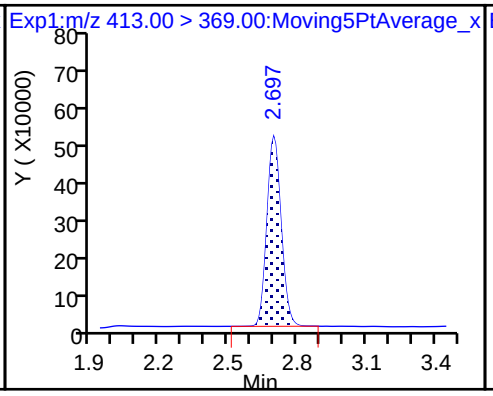
* 62 13C2-PFOA



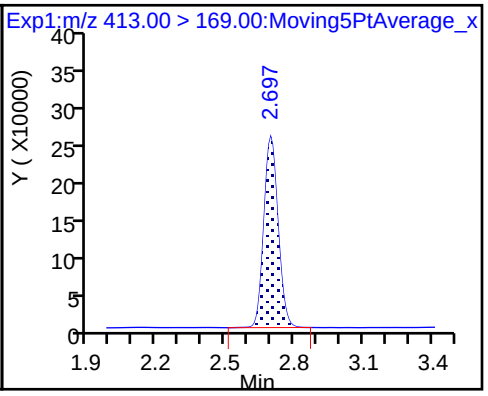
D 14 13C4 PFOA



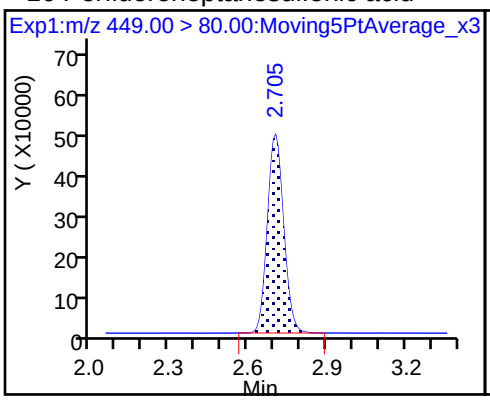
15 Perfluorooctanoic acid



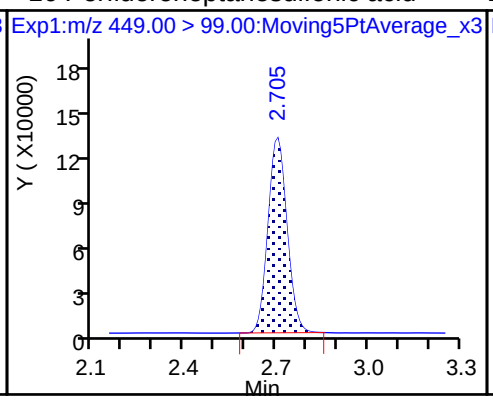
15 Perfluorooctanoic acid



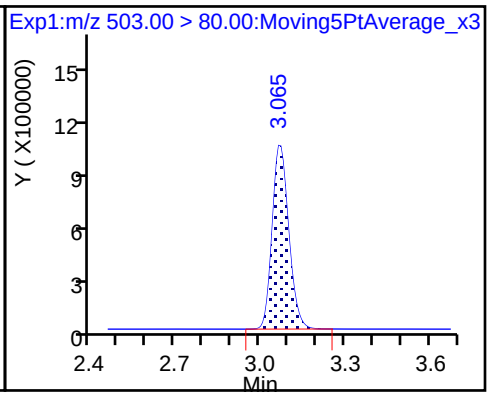
16 Perfluoroheptanesulfonic acid



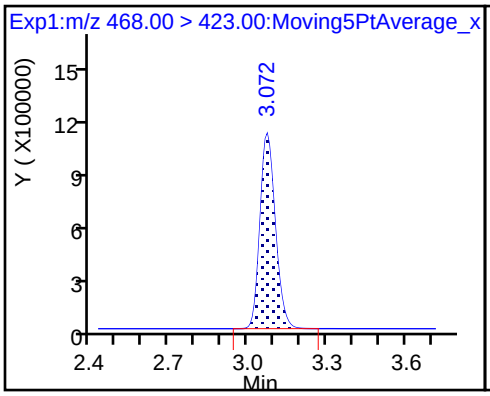
16 Perfluoroheptanesulfonic acid



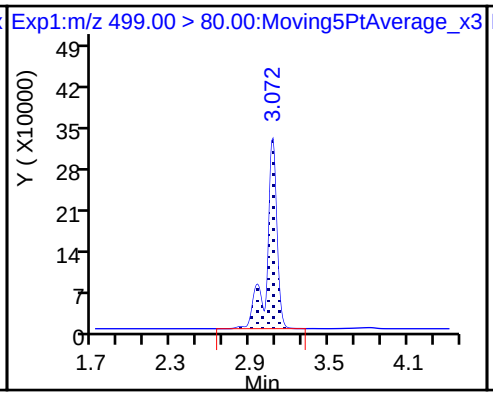
D 18 13C4 PFOS



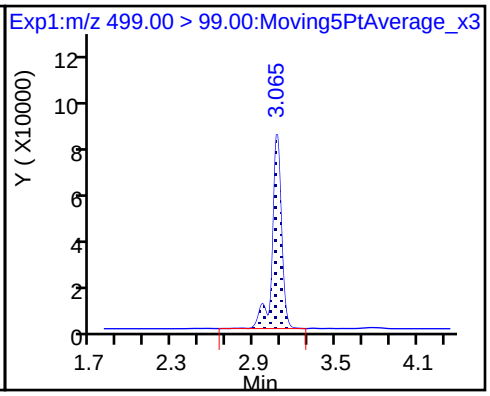
D 19 13C5 PFNA



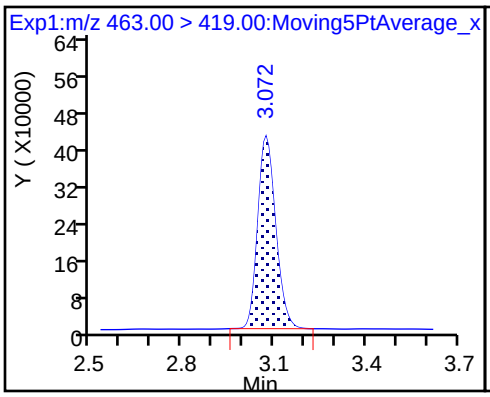
17 Perfluorooctane sulfonic acid



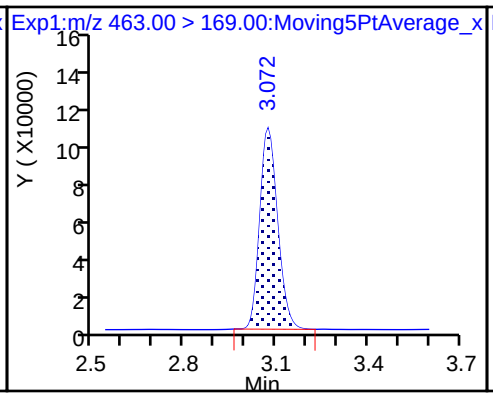
17 Perfluorooctane sulfonic acid



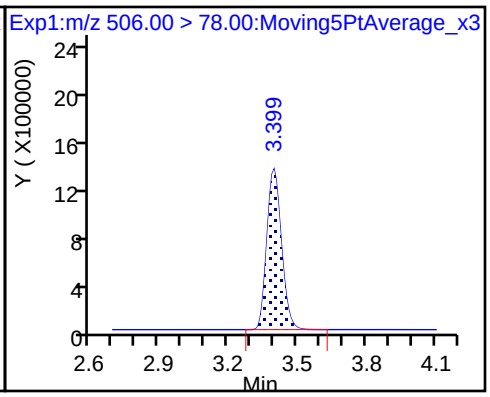
20 Perfluorononanoic acid



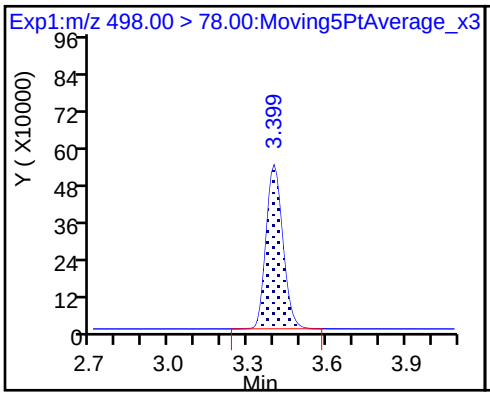
20 Perfluorononanoic acid



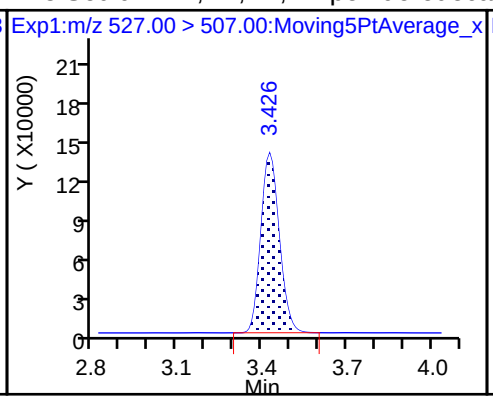
D 21 13C8 FOSA



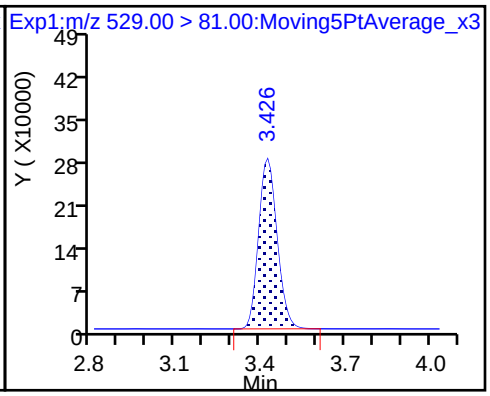
22 Perfluorooctane Sulfonamide



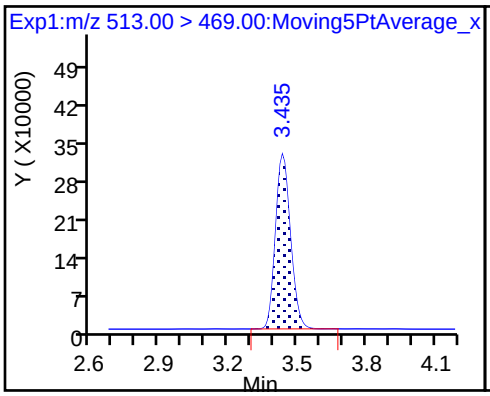
25 Sodium 1H,1H,2H,2H-perfluorodecane



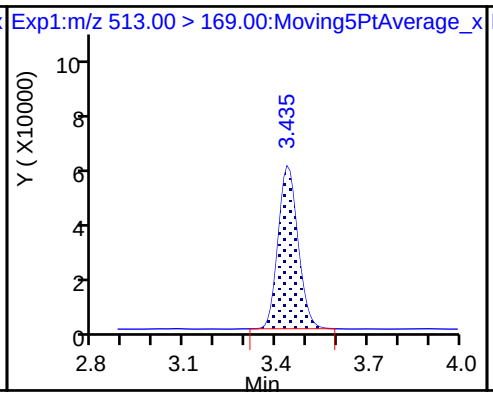
D 26 M2-8:2FTS



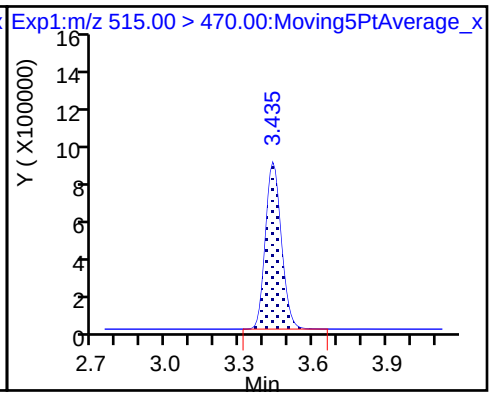
24 Perfluorodecanoic acid



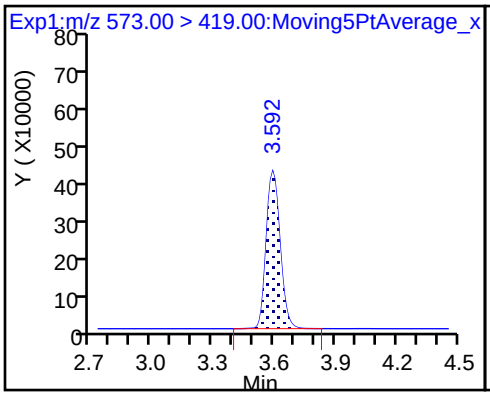
24 Perfluorodecanoic acid



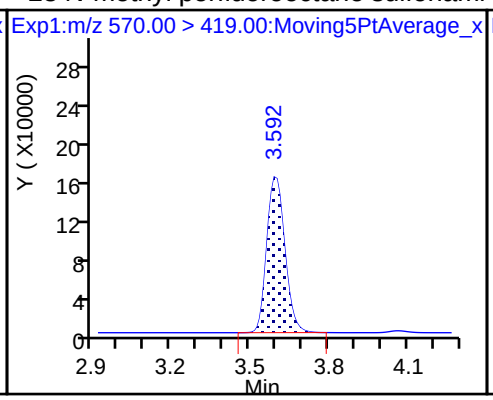
D 23 13C2 PFDA



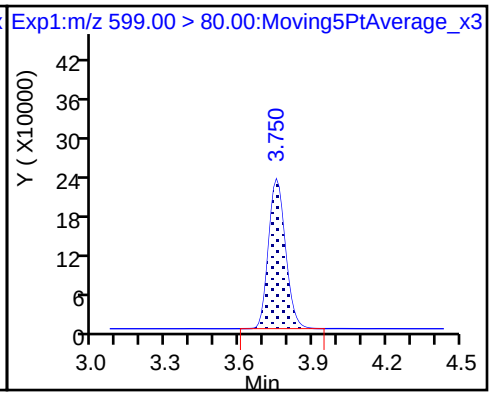
D 27 d3-NMeFOSAA



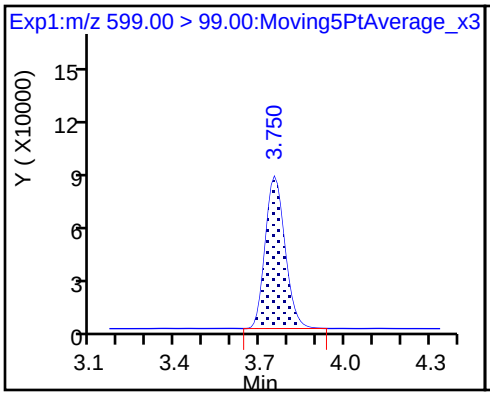
28 N-methyl perfluorooctane sulfonami



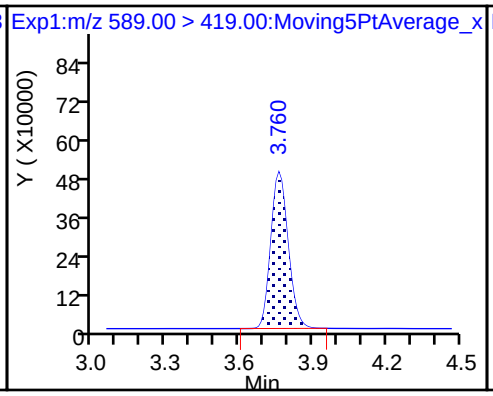
29 Perfluorodecane Sulfonic acid



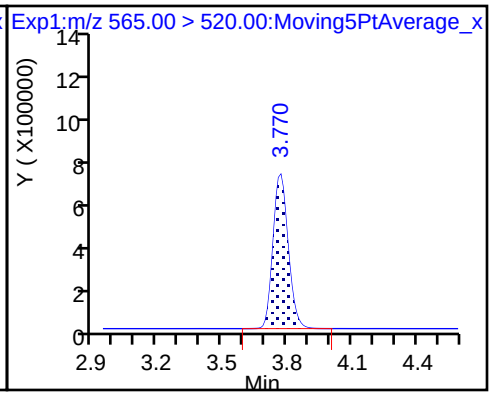
29 Perfluorodecane Sulfonic acid



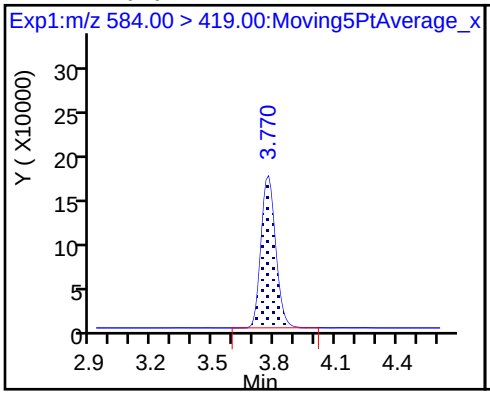
D 32 d5-NEtFOSAA



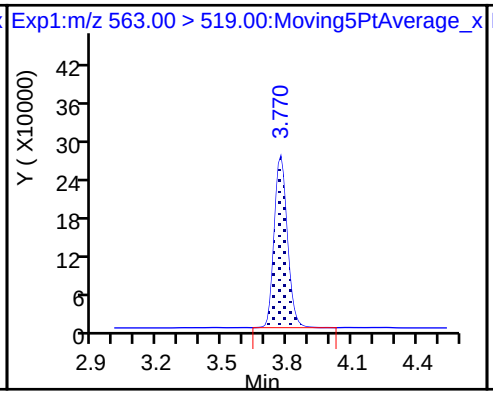
D 30 13C2 PFUnA



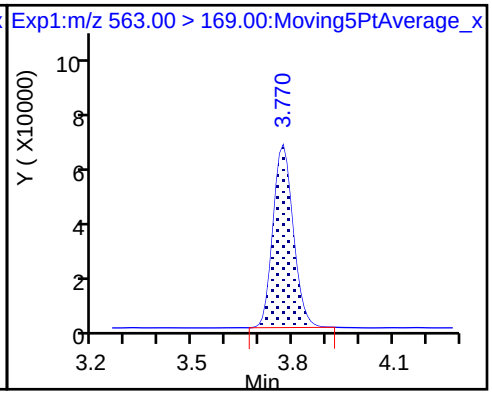
33 N-ethyl perfluorooctane sulfonamid



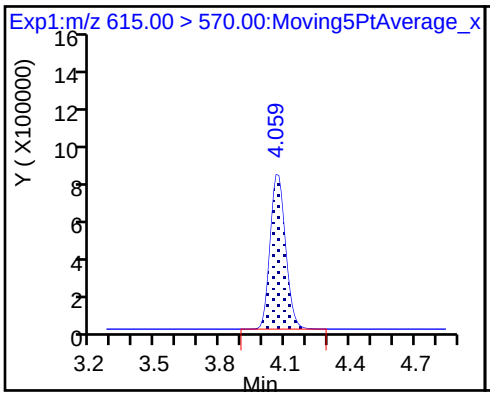
31 Perfluoroundecanoic acid



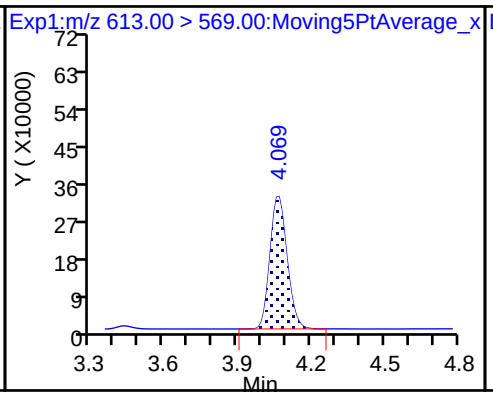
31 Perfluoroundecanoic acid



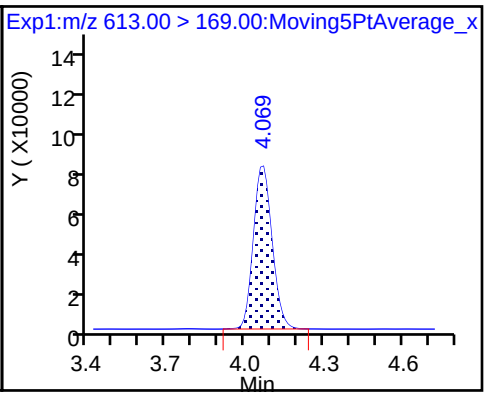
D 36 13C2 PFDoA



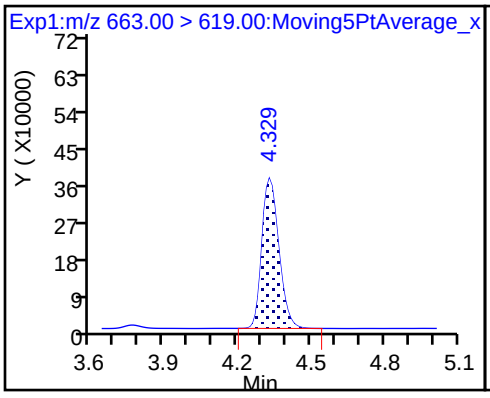
37 Perfluorododecanoic acid



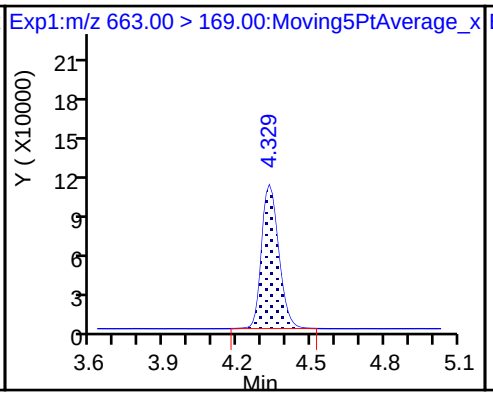
37 Perfluorododecanoic acid



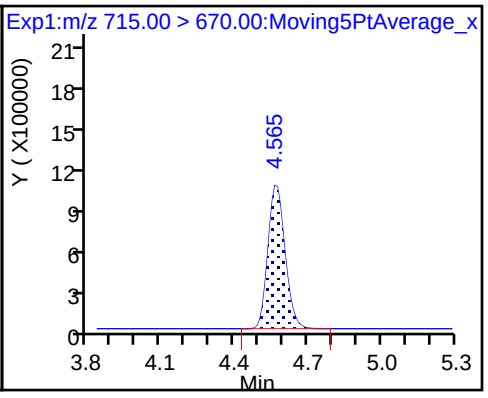
41 Perfluorotridecanoic acid



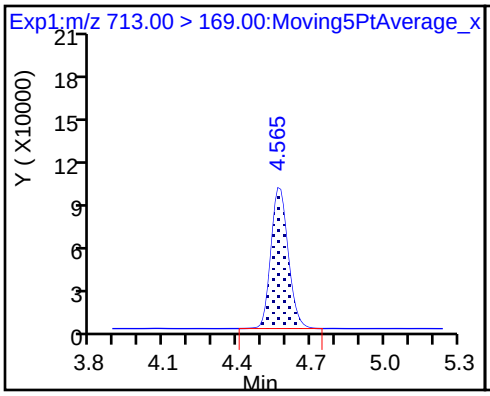
41 Perfluorotridecanoic acid



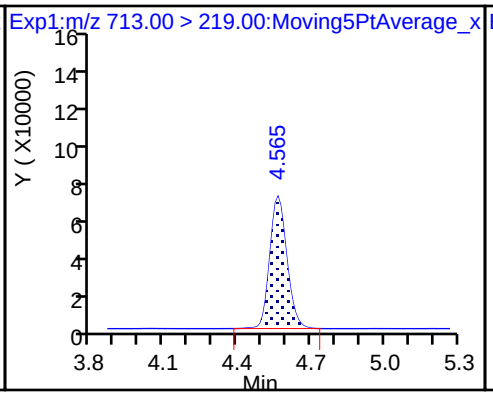
D 43 13C2-PFTeDA



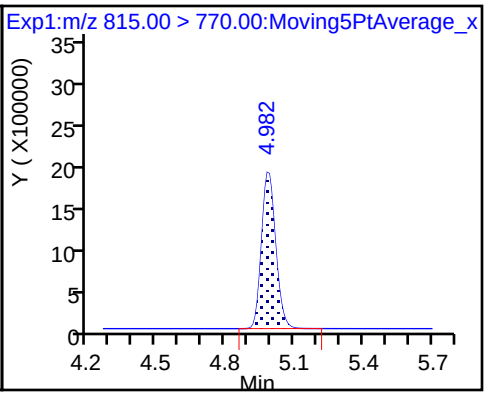
42 Perfluorotetradecanoic acid



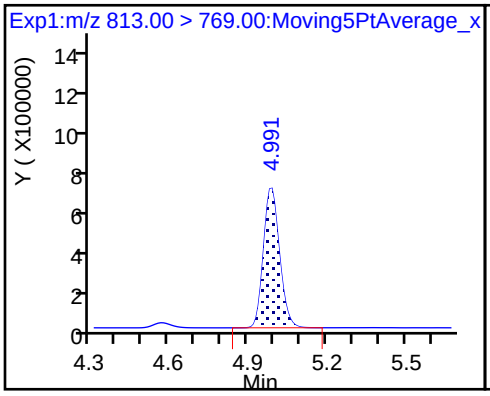
42 Perfluorotetradecanoic acid



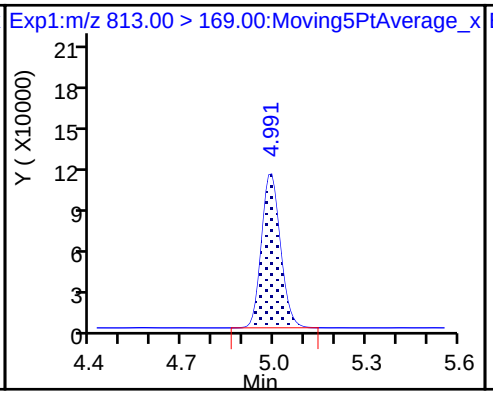
D 44 13C2-PFHxDA



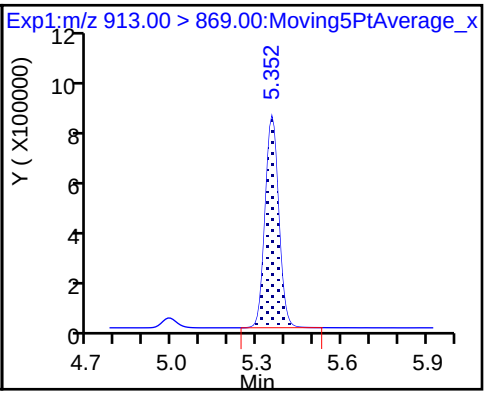
45 Perfluorohexadecanoic acid



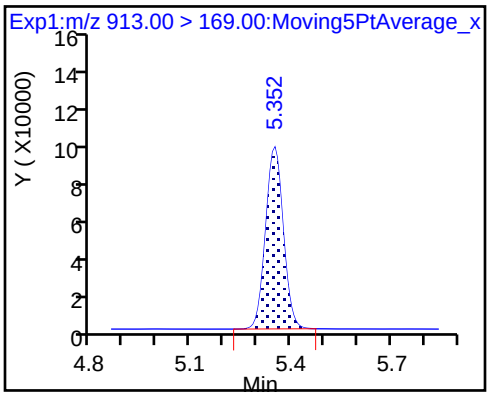
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Mar-2018 18:55:39 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:40 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:24:54

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.446	1.447	-0.001	0.536	6188661	2.33		93.4	78410	
2 Perfluorobutyric acid										
212.90 > 169.00	1.452	1.449	0.003	1.004	5823834	2.50		99.9	2918	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.634	4090438	2.33		93.0	131212	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	4762694	2.58		103	2851	
D 47 13C3-PFBS										
301.90 > 83.00	1.744	1.743	0.001	0.647	87868	2.19		94.1	734	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.744	1.745	-0.001	1.000	6781882	2.31		104	33882	
298.90 > 99.00	1.744	1.745	-0.001	1.000	2805006		2.42(1.25-3.74)	104	17877	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.959	0.007	0.729	609343	2.20		94.1	6498	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.966	1.962	0.004	1.000	1406742	2.30		98.7	64063	
D 7 13C2 PFHxA										
315.00 > 270.00	1.997	1.998	-0.001	0.741	4600880	2.37		94.6	103804	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.997	1.998	-0.001	1.000	4820853	2.56		102	14937	
313.00 > 119.00	1.997	1.998	-0.001	1.000	437719		11.01(5.03-15.10)	102	11379	
D 9 13C4-PFHpA										
367.00 > 322.00	2.328	2.333	-0.005	0.863	4537445	2.36		94.6	85099	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.341	2.335	0.006	1.006	5088526	2.71		108	9556	
363.00 > 169.00	2.328	2.335	-0.007	1.000	1858876		2.74(1.13-3.40)	108	18291	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.341	2.346	-0.005	0.995	5440694	2.15		94.6	25940	
399.00 > 99.00	2.341	2.346	-0.005	0.995	1777291		3.06(1.50-4.49)	94.6	6637	
D 11 18O2 PFHxS										
403.00 > 84.00	2.354	2.348	0.006	0.873	5368855	2.27		95.9	60715	
D 12 M2-6:2FTS										
429.00 > 81.00	2.672	2.672	0.0	0.991	908164	2.28		96.1	19487	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.672	2.672	0.0	1.000	1590173	2.39		101	53321	
D 14 13C4 PFOA										
417.00 > 372.00	2.696	2.695	0.001	1.000	4742395	2.42		96.6	65924	
* 62 13C2-PFOA										
415.00 > 370.00	2.696	2.695	0.001		5235561	2.50			73005	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.696	2.697	-0.001	1.000	5003450	2.33		93.4	1574	
413.00 > 169.00	2.696	2.697	-0.001	1.000	2673743		1.87(0.84-2.52)	93.4	6944	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.704	2.703	0.001	1.000	5113485	2.40		101	52355	
449.00 > 99.00	2.704	2.703	0.001	1.000	1305904		3.92(1.94-5.82)	101	14612	
D 18 13C4 PFOS										
503.00 > 80.00	3.072	3.068	0.004	1.139	3973858	2.31		96.5	34284	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.072	3.070	0.002	1.000	4360129	2.35		101	13023	
499.00 > 99.00	3.072	3.070	0.002	1.000	949206		4.59(2.31-6.93)	101	11305	
D 19 13C5 PFNA										
468.00 > 423.00	3.072	3.070	0.002	1.139	4084349	2.36		94.4	91801	
20 Perfluorononanoic acid										
463.00 > 419.00	3.072	3.072	0.0	1.000	4311504	2.65		106	5737	
463.00 > 169.00	3.072	3.072	0.0	1.000	1044625		4.13(1.90-5.69)	106	21568	
D 21 13C8 FOSA										
506.00 > 78.00	3.398	3.396	0.002	1.260	5666432	2.44		97.6	47804	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.398	3.397	0.001	1.000	5602803	2.51		100	74799	
D 26 M2-8:2FTS										
529.00 > 81.00	3.426	3.426	0.0	1.271	1157021	2.15		89.9	32125	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.426	3.426	0.0	1.000	1588740	2.58		108	39307	
D 23 13C2 PFDA										
515.00 > 470.00	3.435	3.435	0.0	1.274	3515629	2.32		92.7	59893	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.435	3.435	0.0	1.000	3690292	2.66		106	13711	
513.00 > 169.00	3.435	3.435	0.0	1.000	621400		5.94(2.36-7.09)	106	1806	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.590	3.591	-0.001	1.331	1848322	2.31		92.6	43598	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.600	3.594	0.006	1.003	2049489	2.77		111	10939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.748	3.749	-0.001	1.000	2934010	2.60		108	55841	
599.00 > 99.00	3.748	3.749	-0.001	1.000	945062		3.10(1.39-4.16)	108	19624	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.758	3.759	-0.001	1.394	2051910	2.26		90.2	11879	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.768	3.768	0.0	1.000	2666750	2.41		96.4	11171	
563.00 > 169.00	3.768	3.768	0.0	1.000	636340		4.19(2.12-6.36)	96.4	22140	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.768	3.768	0.0	1.003	2079318	2.71		108	23647	
D 30 13C2 PFUnA										
565.00 > 520.00	3.768	3.768	0.0	1.398	3209638	2.36		94.6	51590	
D 36 13C2 PFDoA										
615.00 > 570.00	4.067	4.066	0.001	1.508	3715622	2.41		96.5	29822	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.067	4.068	-0.001	1.000	3845398	2.47		98.9	3613	
613.00 > 169.00	4.067	4.068	-0.001	1.000	845112		4.55(2.13-6.40)	98.9	12526	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.329	4.329	-0.001	1.000	4156865	2.54		102	2825	
663.00 > 169.00	4.329	4.329	-0.001	1.000	1286777		3.23(1.25-3.76)	102	15589	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.575	4.568	0.007	1.697	4471429	2.38		95.1	25225	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.575	4.571	0.004	1.000	1127193	2.54		102	13059	
713.00 > 219.00	4.564	4.571	-0.007	0.998	791381		1.42(0.71-2.13)	102	14928	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.990	4.987	0.003	1.851	7064103	2.29		91.6	18829	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.990	4.989	0.001	1.000	7013285	2.71		108	2178	
813.00 > 169.00	4.990	4.989	0.001	1.000	1094747		6.41(2.86-8.58)	108	9232	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.352	5.354	-0.002	1.000	6807875	2.61		104	2083	
913.00 > 169.00	5.352	5.354	-0.002	1.000	815201		8.35(3.83-11.48)	104	6311	

Reagents:

LCPFC_LL5_00004 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:41 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_006.d

Injection Date: 21-Mar-2018 18:55:39 Instrument ID: A8_N

Lims ID: IC L5 Full

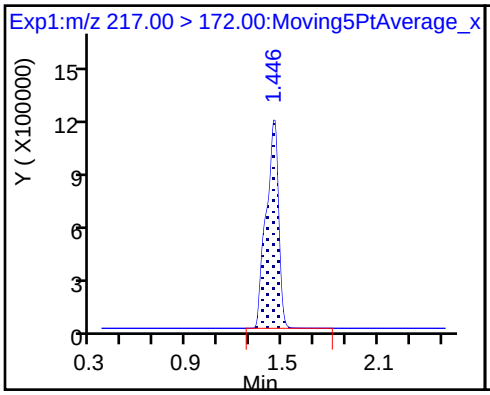
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

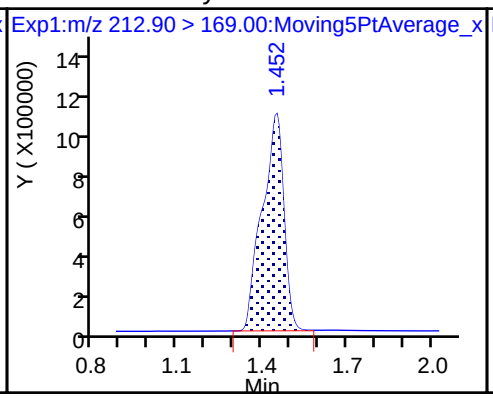
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

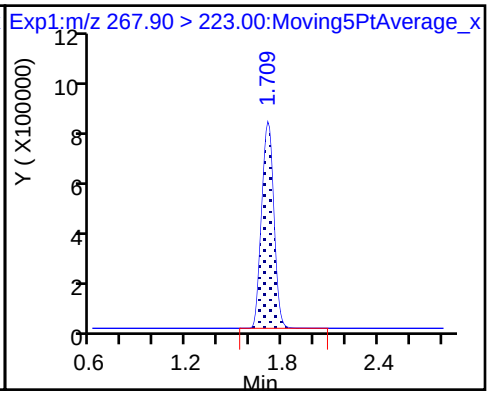
D 1 13C4 PFBA



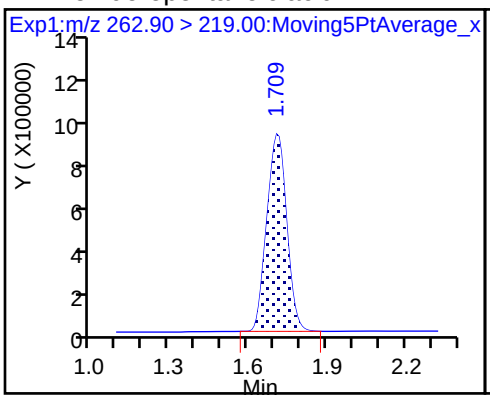
2 Perfluorobutyric acid



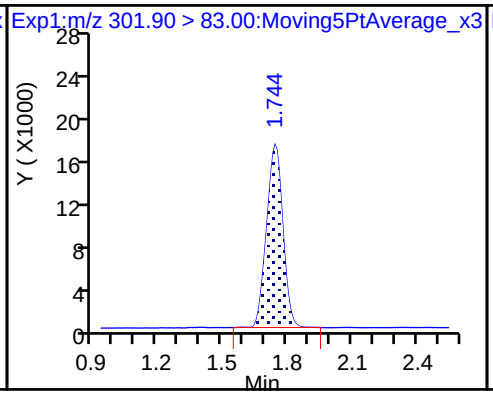
D 3 13C5-PFPeA



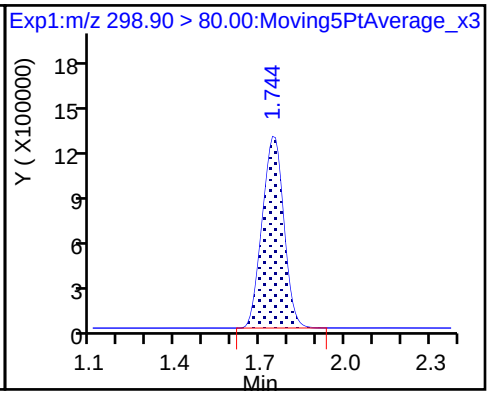
4 Perfluoropentanoic acid



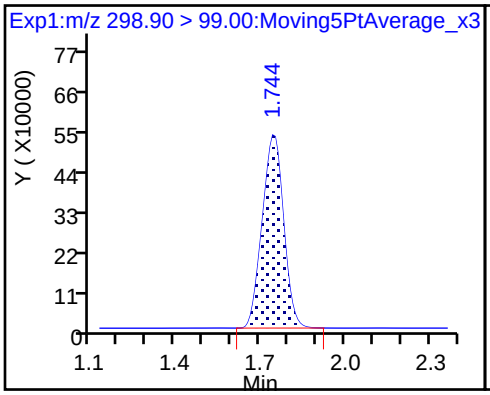
D 47 13C3-PFBS



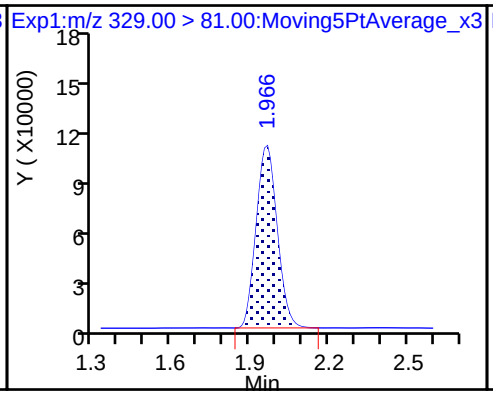
5 Perfluorobutanesulfonic acid



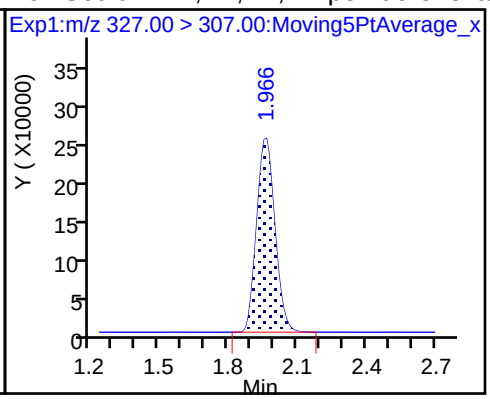
5 Perfluorobutanesulfonic acid



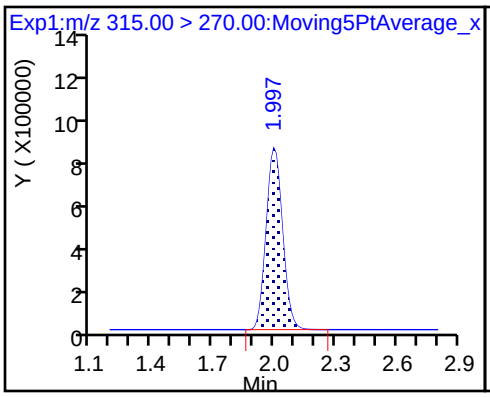
D 60 M2-4:2FTS



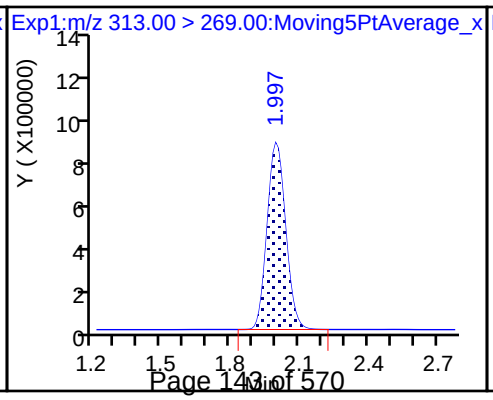
61 Sodium 1H,1H,2H,2H-perfluorohexane



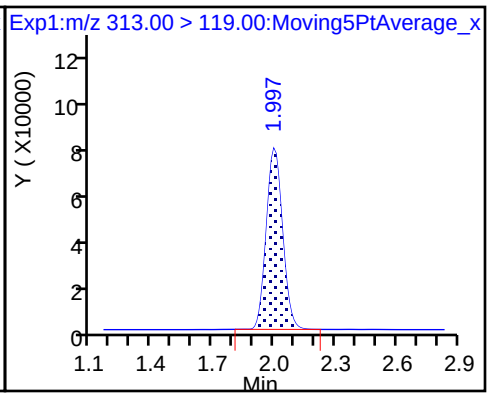
D 7 13C2 PFHxA



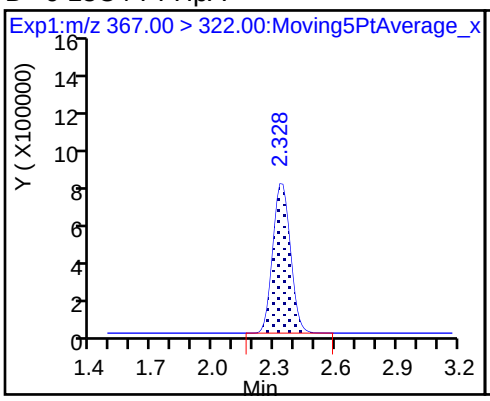
6 Perfluorohexanoic acid



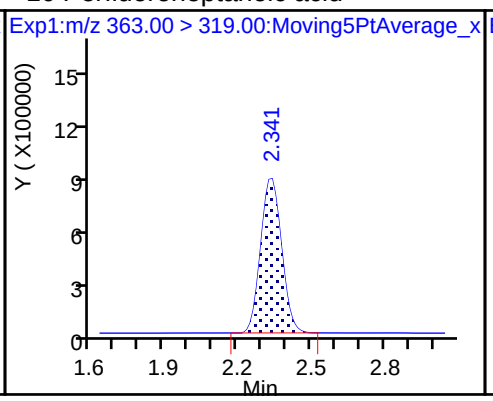
6 Perfluorohexanoic acid



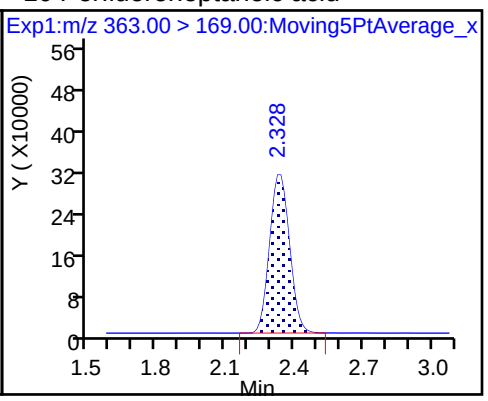
D 9 13C4-PFHpA



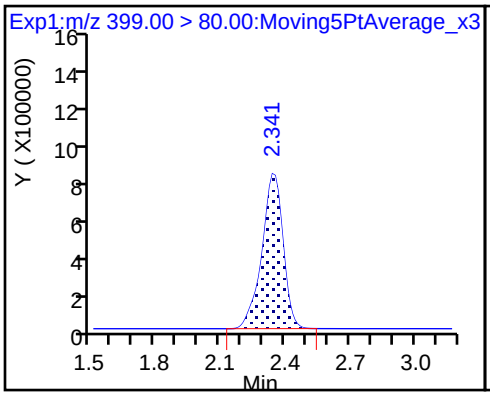
10 Perfluoroheptanoic acid



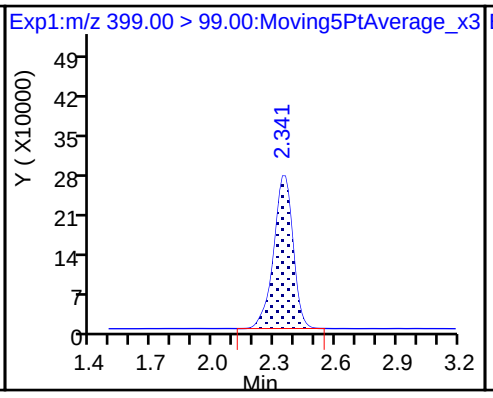
10 Perfluoroheptanoic acid



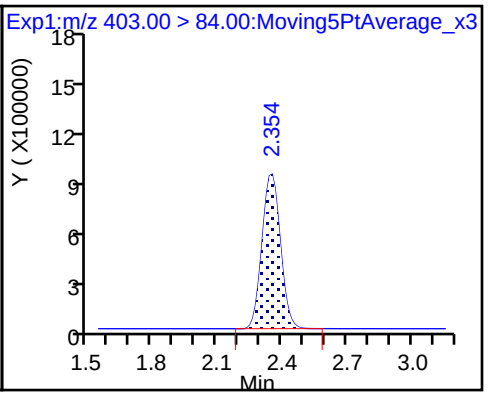
8 Perfluorohexanesulfonic acid



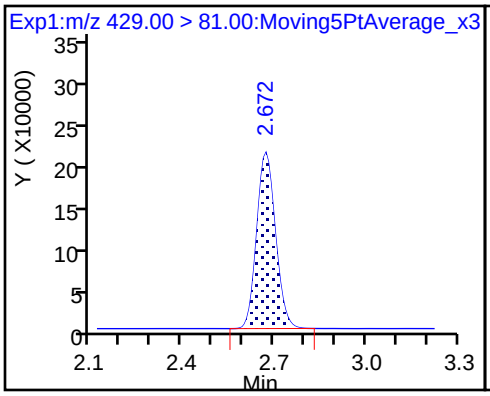
8 Perfluorohexanesulfonic acid



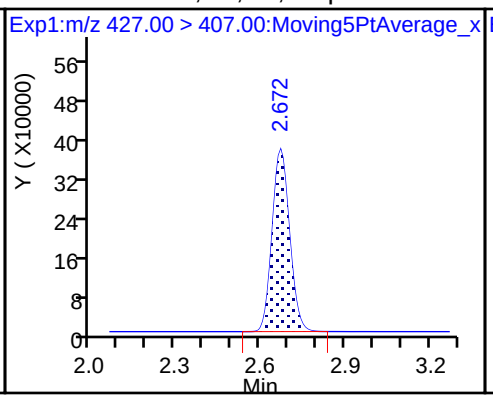
D 11 18O2 PFHxS



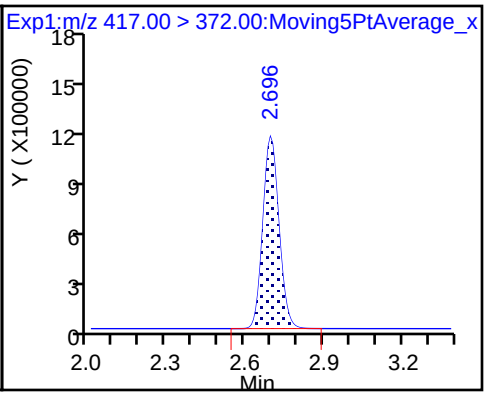
D 12 M2-6:2FTS



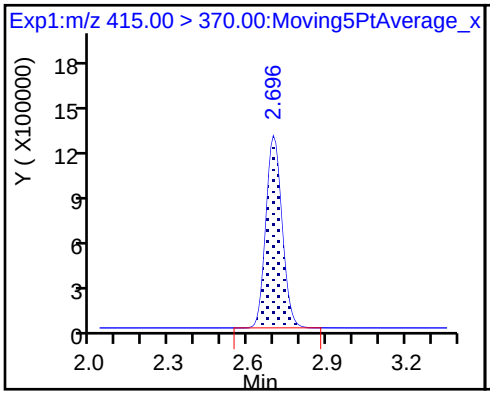
13 Sodium 1H,1H,2H,2H-perfluorooctane



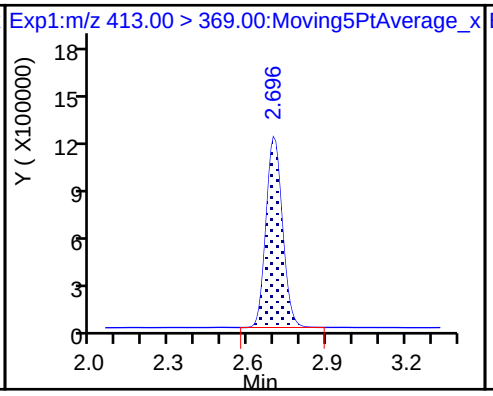
D 14 13C4 PFOA



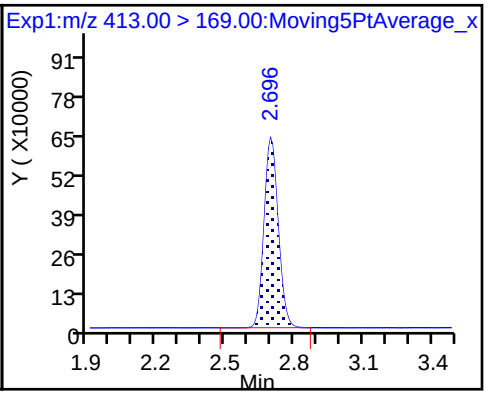
* 62 13C2-PFOA



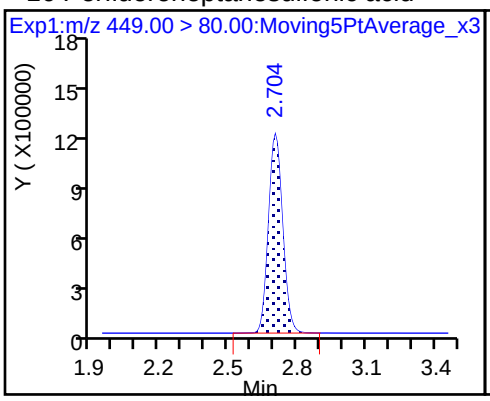
15 Perfluorooctanoic acid



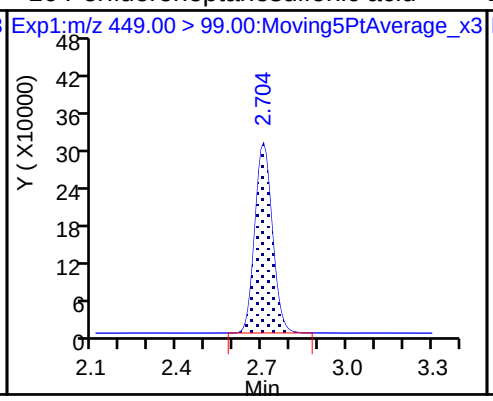
15 Perfluorooctanoic acid



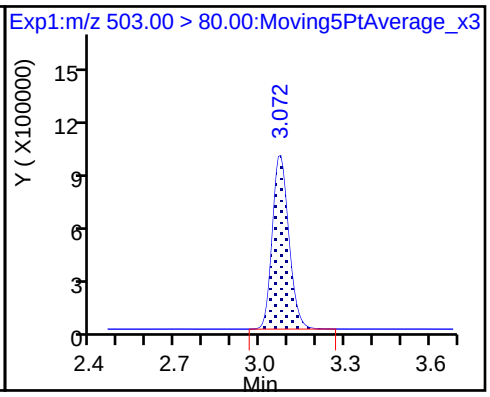
16 Perfluoroheptanesulfonic acid



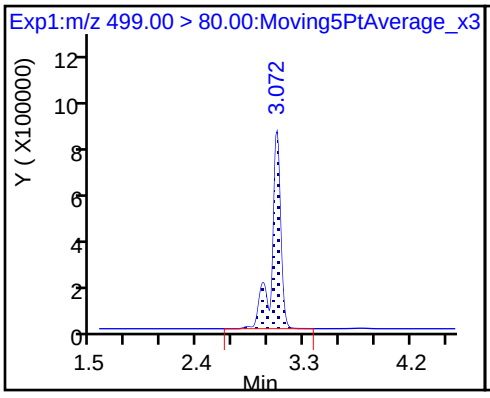
16 Perfluoroheptanesulfonic acid



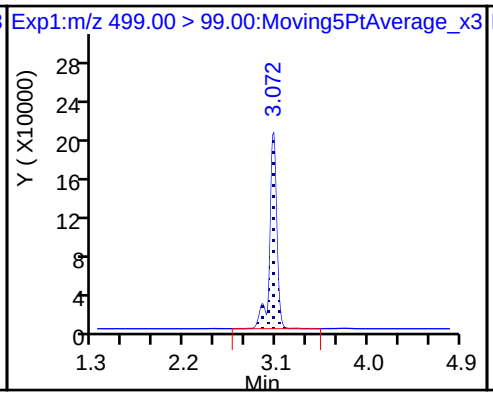
D 18 13C4 PFOS



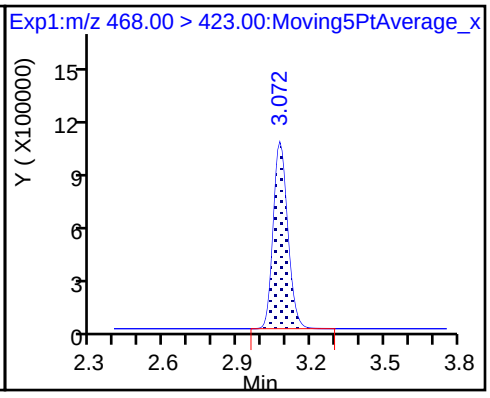
17 Perfluorooctane sulfonic acid



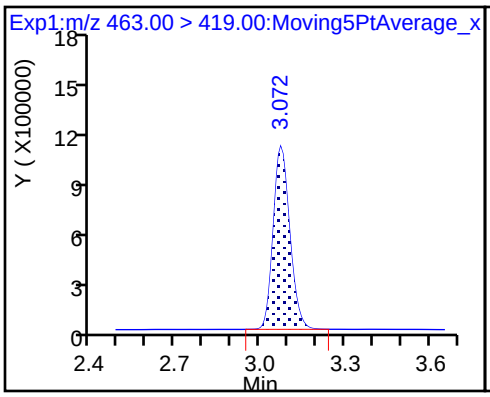
17 Perfluorooctane sulfonic acid



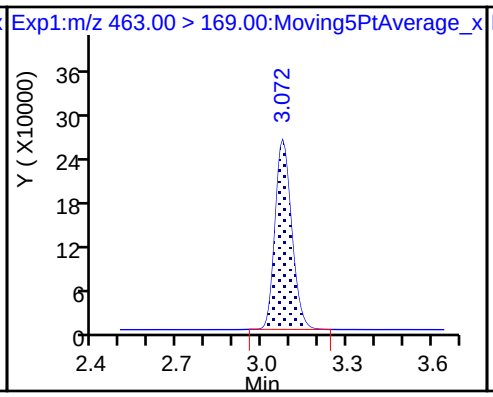
D 19 13C5 PFNA



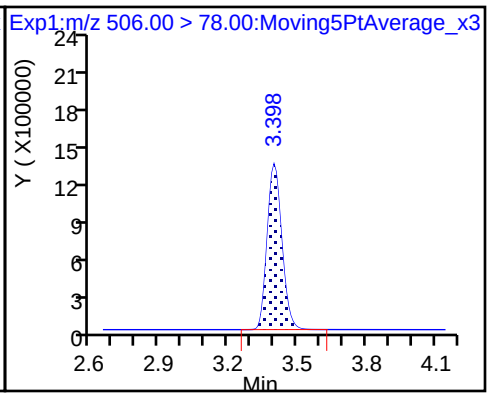
20 Perfluorononanoic acid



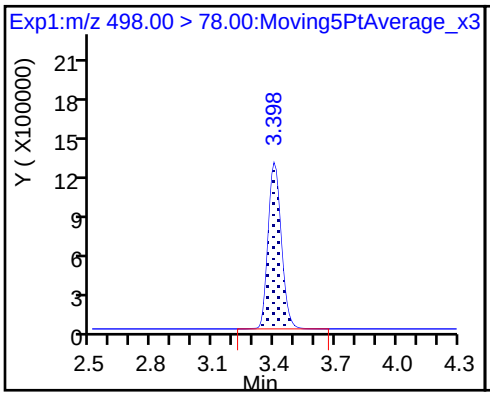
20 Perfluorononanoic acid



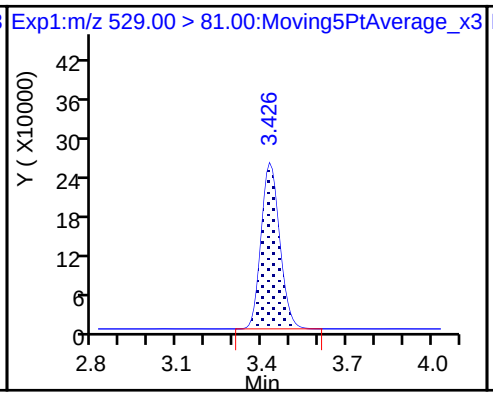
D 21 13C8 FOSA



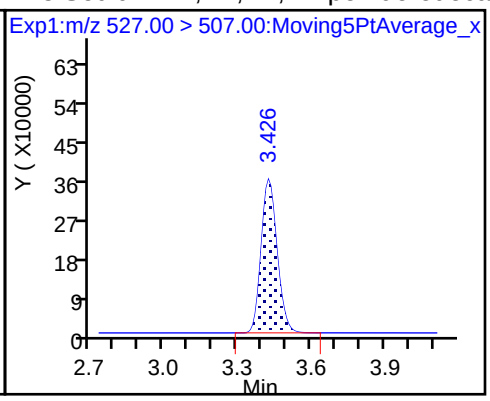
22 Perfluorooctane Sulfonamide



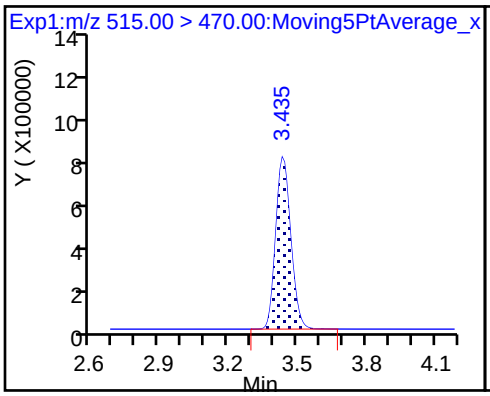
D 26 M2-8:2FTS



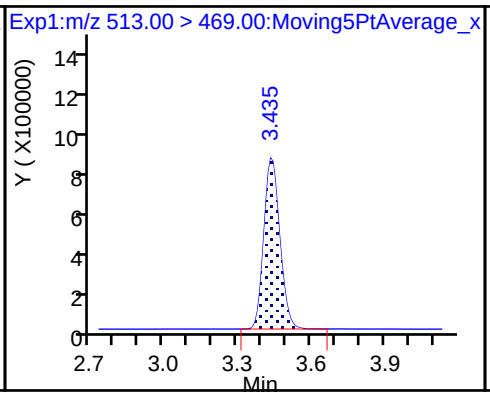
25 Sodium 1H,1H,2H,2H-perfluorodecane



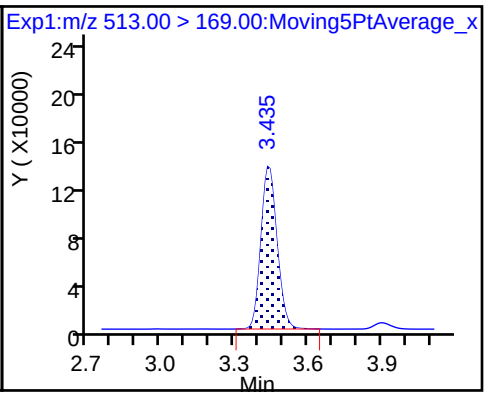
D 23 13C2 PFDA



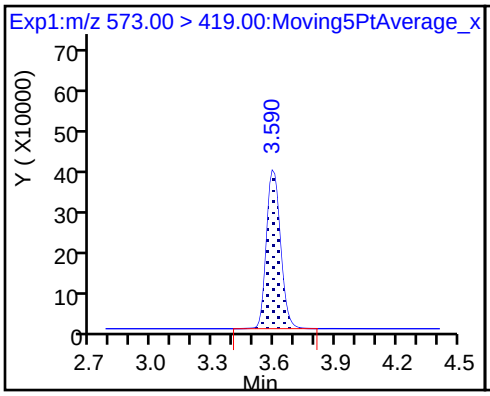
24 Perfluorodecanoic acid



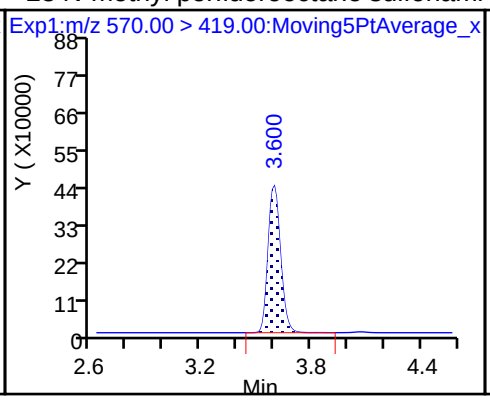
24 Perfluorodecanoic acid



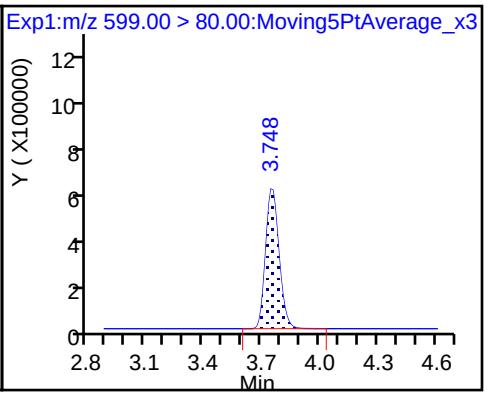
D 27 d3-NMeFOSAA



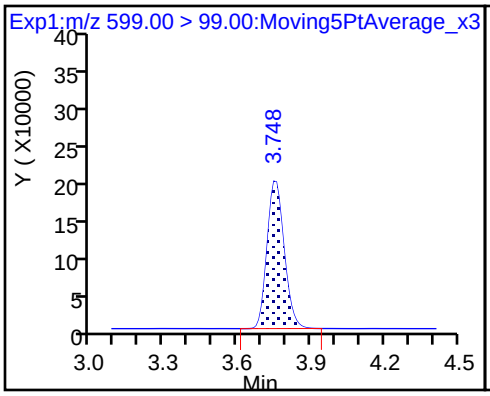
28 N-methyl perfluorooctane sulfonami



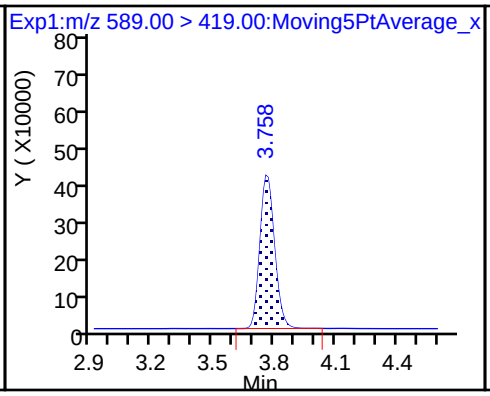
29 Perfluorodecane Sulfonic acid



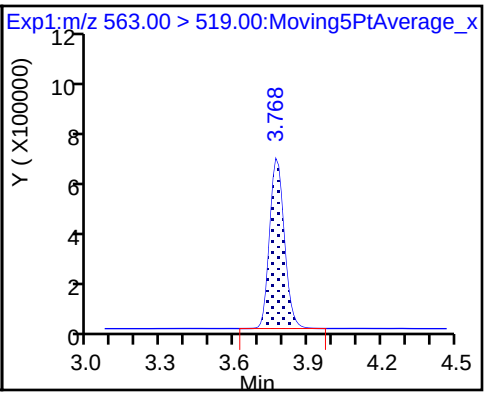
29 Perfluorodecane Sulfonic acid



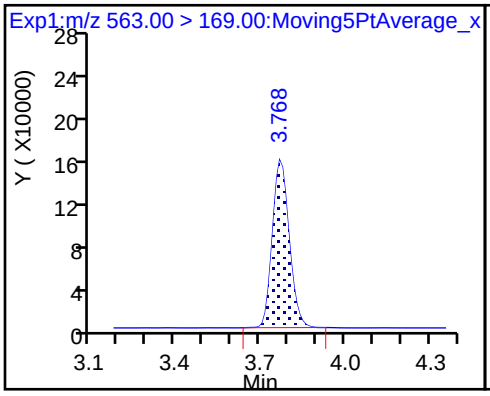
D 32 d5-NEtFOSAA



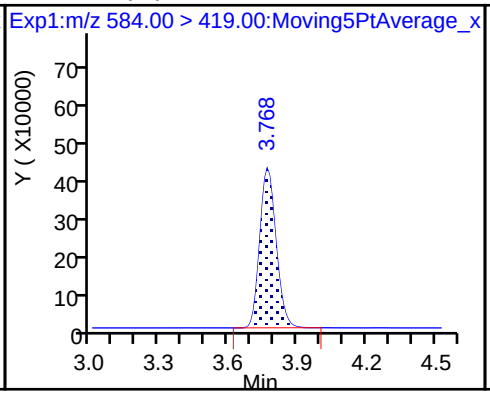
31 Perfluoroundecanoic acid



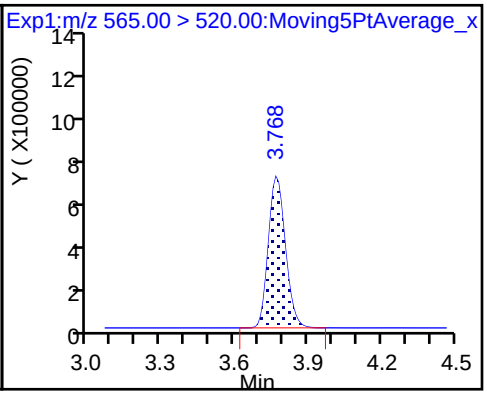
31 Perfluoroundecanoic acid



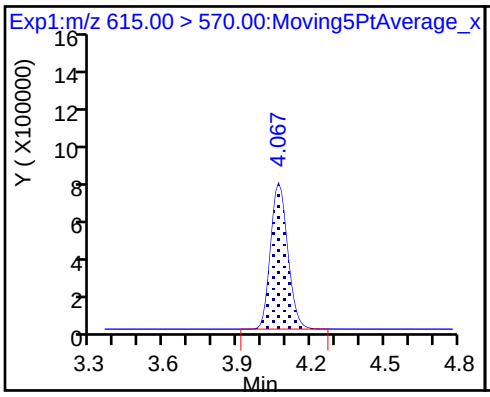
33 N-ethyl perfluorooctane sulfonamid



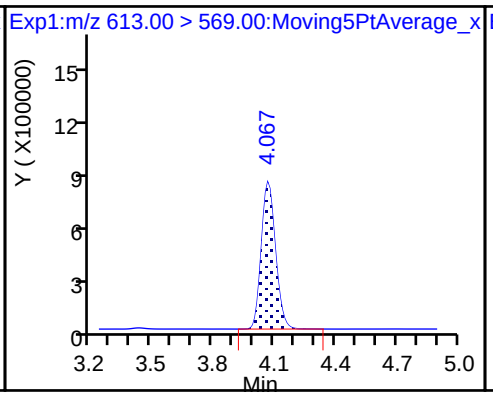
D 30 13C2 PFUnA



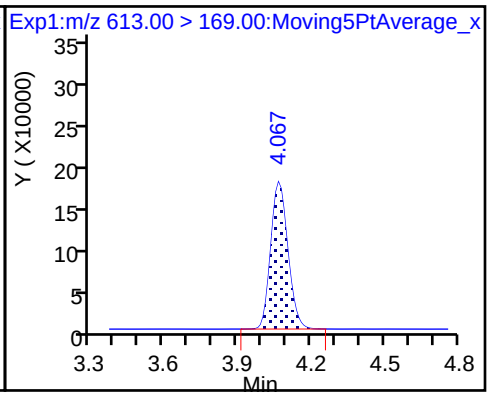
D 36 13C2 PFDoA



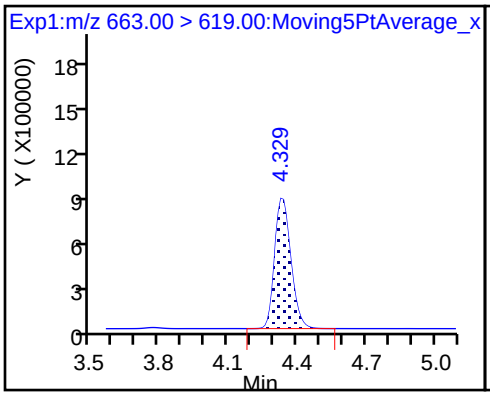
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid



41 Perfluorotridecanoic acid



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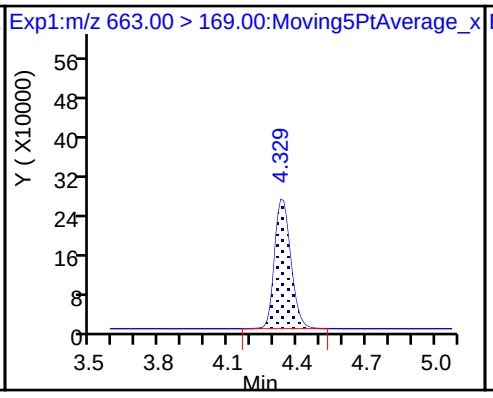
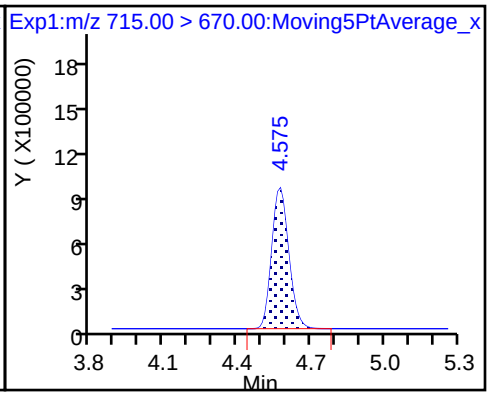
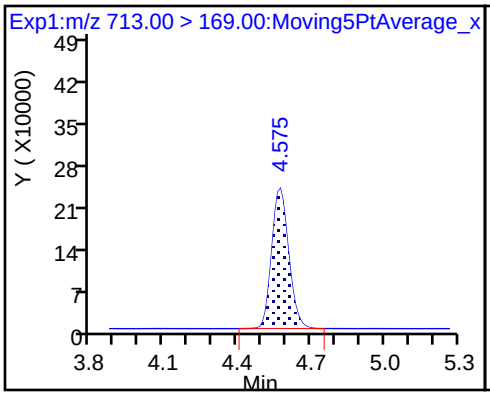


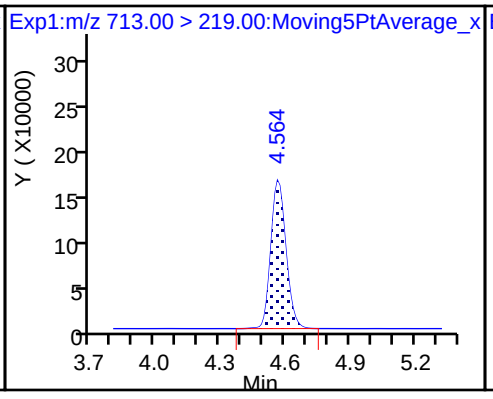
D 43 13C2-PFTeDA



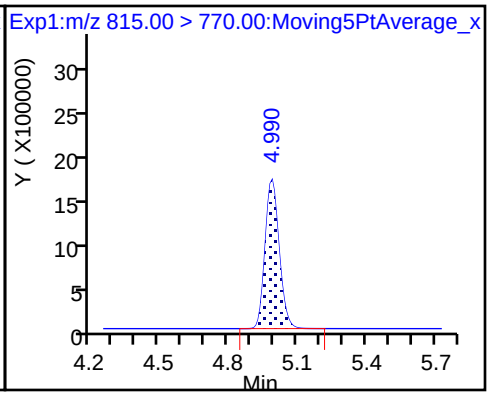
42 Perfluorotetradecanoic acid



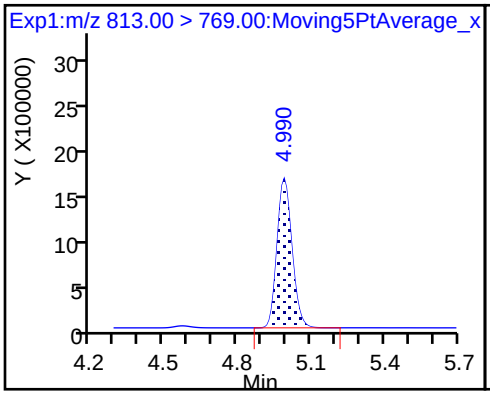
42 Perfluorotetradecanoic acid



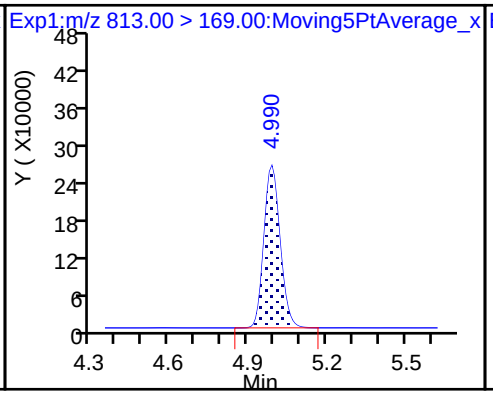
D 44 13C2-PFHxDA



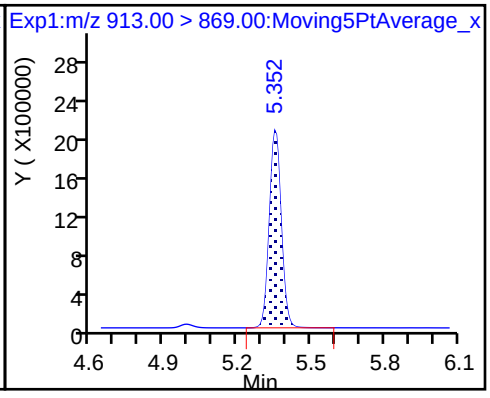
45 Perfluorohexadecanoic acid



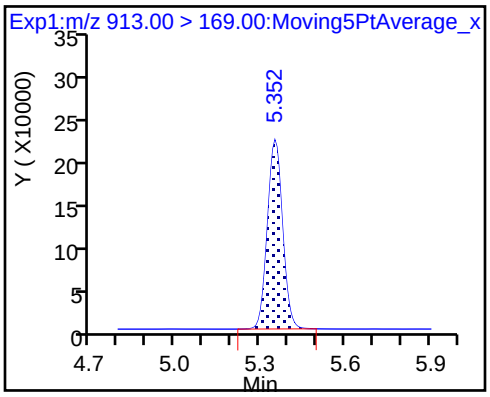
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Mar-2018 19:03:30 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:44 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:25:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.447	1.447	0.0	0.538	6477851	2.55		102	71577	
2 Perfluorobutyric acid										
212.90 > 169.00	1.447	1.449	-0.002	1.000	12506996	5.12		102	5009	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	10061856	5.28		106	5962	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.636	4228437	2.51		100	115375	
D 47 13C3-PFBS										
301.90 > 83.00	1.736	1.743	-0.007	0.646	91170	2.37		102	642	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.744	1.745	-0.001	1.005	13614957	4.47		101	59974	
298.90 > 99.00	1.744	1.745	-0.001	1.005	5744856		2.37(1.25-3.74)	101	34133	
D 60 M2-4:2FTS										
329.00 > 81.00	1.956	1.959	-0.003	0.727	618185	2.33		99.8	9508	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.962	-0.006	1.000	3074271	4.85		104	113750	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.997	1.998	-0.001	1.000	9699799	5.15		103	27756	
313.00 > 119.00	1.997	1.998	-0.001	1.000	852897		11.37(5.03-15.10)	103	18827	
D 7 13C2 PFHxA										
315.00 > 270.00	1.997	1.998	-0.001	0.743	4608558	2.48		99.0	117004	
D 9 13C4-PFHpA										
367.00 > 322.00	2.328	2.333	-0.005	0.866	4533044	2.47		98.7	76306	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.328	2.335	-0.007	1.000	9620973	5.13		103	19806	
363.00 > 169.00	2.328	2.335	-0.007	1.000	3676177		2.62(1.13-3.40)	103	44226	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.341	2.346	-0.005	1.000	11144344	4.59		101	37424	
399.00 > 99.00	2.341	2.346	-0.005	1.000	3686233		3.02(1.50-4.49)	101	14506	
D 11 18O2 PFHxS										
403.00 > 84.00	2.341	2.348	-0.007	0.871	5161589	2.28		96.3	51420	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.665	2.672	-0.007	1.000	3079977	4.88		103	79193	
D 12 M2-6:2FTS										
429.00 > 81.00	2.665	2.672	-0.007	0.991	859398	2.26		95.0	19868	
* 62 13C2-PFOA										
415.00 > 370.00	2.689	2.695	-0.006		5010487	2.50			60852	
D 14 13C4 PFOA										
417.00 > 372.00	2.689	2.695	-0.006	1.000	4582778	2.44		97.6	62576	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.689	2.697	-0.008	1.000	10325028	4.99		99.7	3798	
413.00 > 169.00	2.689	2.697	-0.008	1.000	5578097		1.85(0.84-2.52)	99.7	12866	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.697	2.703	-0.007	1.000	10247281	4.92		103	95353	
449.00 > 99.00	2.697	2.703	-0.007	1.000	2802979		3.66(1.94-5.82)	103	30967	
D 18 13C4 PFOS										
503.00 > 80.00	3.065	3.068	-0.003	1.140	3887079	2.36		98.7	34652	
D 19 13C5 PFNA										
468.00 > 423.00	3.065	3.070	-0.005	1.140	4190429	2.53		101	73908	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.065	3.070	-0.005	1.000	8507880	4.70		101	25330	
499.00 > 99.00	3.065	3.070	-0.005	1.000	1865180		4.56(2.31-6.93)	101	16885	
20 Perfluorononanoic acid										
463.00 > 419.00	3.065	3.072	-0.007	1.000	8405623	5.03		101	11383	
463.00 > 169.00	3.065	3.072	-0.007	1.000	2050780		4.10(1.90-5.69)	101	33608	
D 21 13C8 FOSA										
506.00 > 78.00	3.389	3.396	-0.007	1.261	5524474	2.49		99.4	47817	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.398	3.397	0.001	1.003	11417156	5.24		105	103044	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.426	3.426	0.0	1.000	3110907	4.74		98.9	52787	
D 26 M2-8:2FTS										
529.00 > 81.00	3.426	3.426	0.0	1.274	1232595	2.40		100	20905	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.435	3.435	0.0	1.000	7434177	5.20		104	34723	
513.00 > 169.00	3.435	3.435	0.0	1.000	1267093		5.87(2.36-7.09)	104	25626	
D 23 13C2 PFDA										
515.00 > 470.00	3.435	3.435	0.0	1.278	3620699	2.49		99.7	67474	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.590	3.591	-0.001	1.335	1999896	2.62		105	32859	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.590	3.594	-0.004	1.000	4285891	5.35		107	16332	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.748	3.749	-0.001	1.000	5812987	5.26		109	81589	
599.00 > 99.00	3.748	3.749	-0.001	1.000	1938375		3.00(1.39-4.16)	109	40850	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.758	3.759	-0.001	1.398	2049207	2.35		94.1	11579	
D 30 13C2 PFUnA										
565.00 > 520.00	3.768	3.768	0.0	1.402	3287781	2.53		101	48915	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.768	3.768	0.0	1.003	4082815	5.33		107	52088	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.768	3.768	0.0	1.000	5555779	4.90		98.0	24720	
563.00 > 169.00	3.768	3.768	0.0	1.000	1268479		4.38(2.12-6.36)	98.0	37902	
D 36 13C2 PFDoA										
615.00 > 570.00	4.067	4.066	0.001	1.513	3576857	2.43		97.1	25243	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.067	4.068	-0.001	1.000	7940975	5.30		106	7729	
613.00 > 169.00	4.067	4.068	-0.001	1.000	1842955		4.31(2.13-6.40)	106	22214	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.329	4.329	0.0	1.000	8719608	5.54		111	6299	
663.00 > 169.00	4.329	4.329	0.0	1.000	2643202		3.30(1.25-3.76)	111	25957	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.564	4.568	-0.004	1.698	4422729	2.46		98.3	24229	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.564	4.571	-0.007	1.000	2258774	5.15		103	23470	
713.00 > 219.00	4.564	4.571	-0.007	1.000	1681977		1.34(0.71-2.13)	103	21838	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.981	4.987	-0.006	1.853	7843306	2.66		106	20262	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.981	4.989	-0.008	1.000	14354924	5.01		100	4032	
813.00 > 169.00	4.981	4.989	-0.008	1.000	2391479		6.00(2.86-8.58)	100	14747	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.352	5.354	-0.002	1.000	14635504	5.05		101	3845	
913.00 > 169.00	5.345	5.354	-0.009	0.999	1844593		7.93(3.83-11.48)	101	7769	

Reagents:

LCPFC_LL6_00005 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_007.d

Injection Date: 21-Mar-2018 19:03:30 Instrument ID: A8_N

Lims ID: IC L6 Full

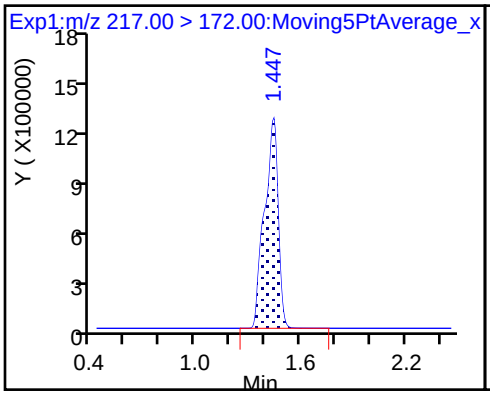
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

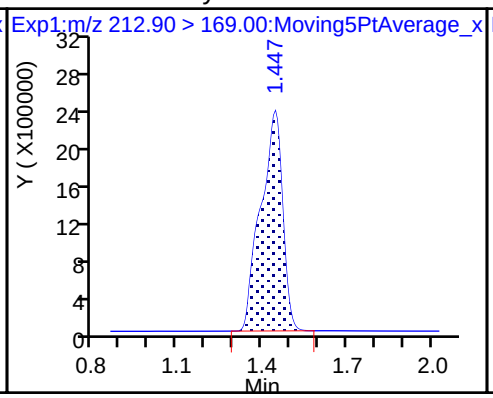
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

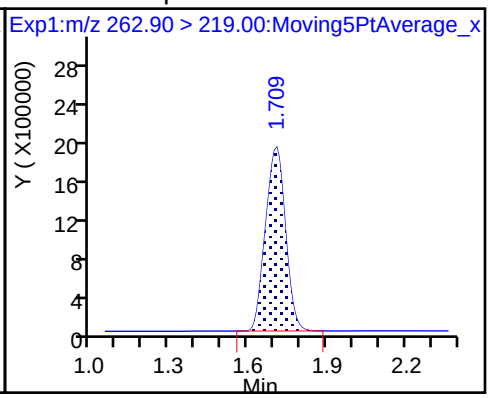
D 1 13C4 PFBA



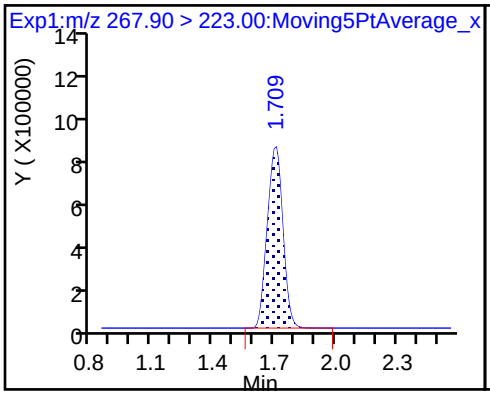
2 Perfluorobutyric acid



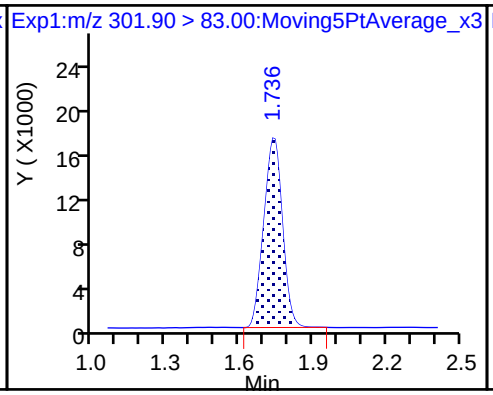
4 Perfluoropentanoic acid



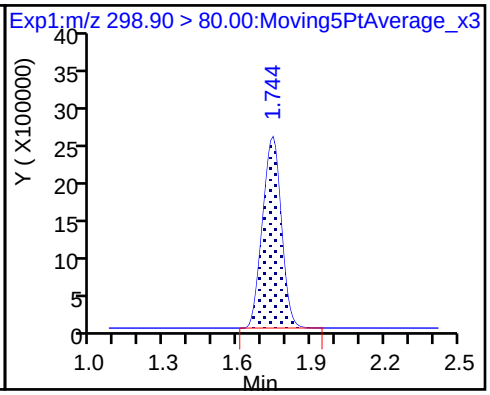
D 3 13C5-PFPeA



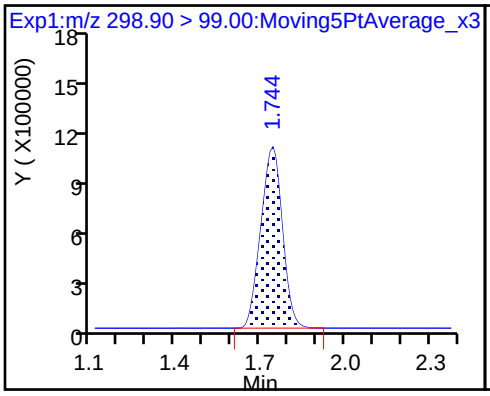
D 47 13C3-PFBS



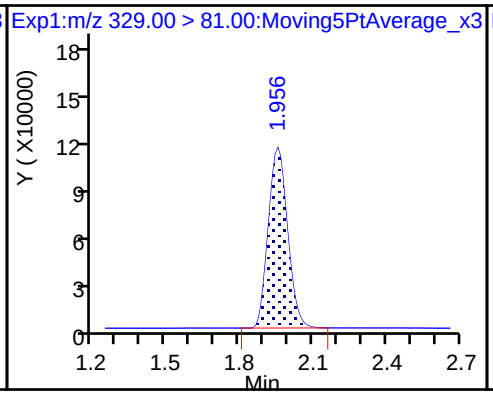
5 Perfluorobutanesulfonic acid



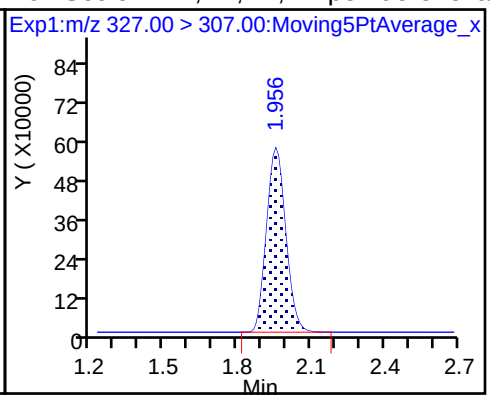
5 Perfluorobutanesulfonic acid



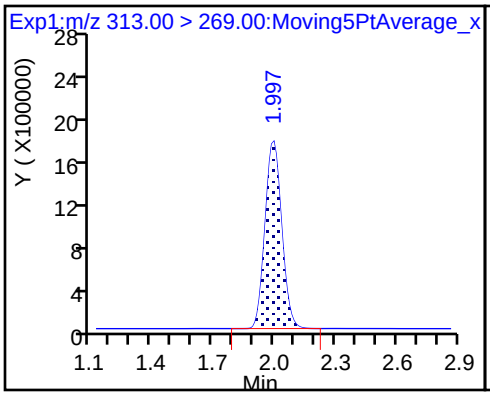
D 60 M2-4:2FTS



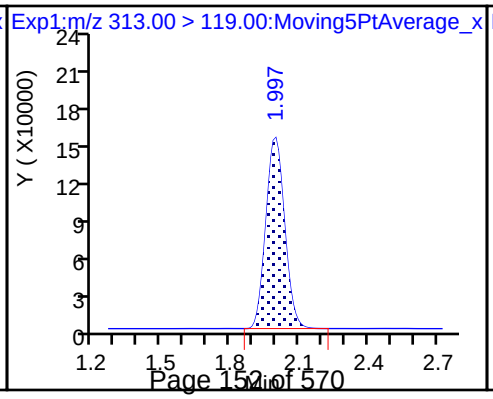
61 Sodium 1H,1H,2H,2H-perfluorohexane



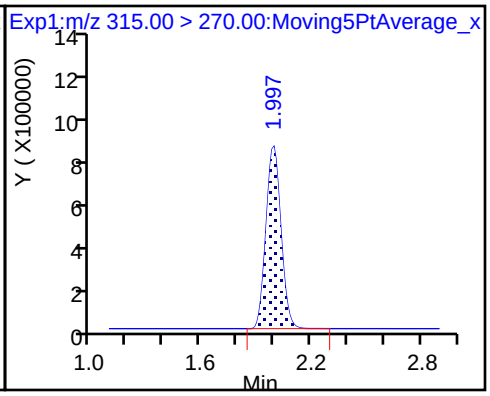
6 Perfluorohexanoic acid



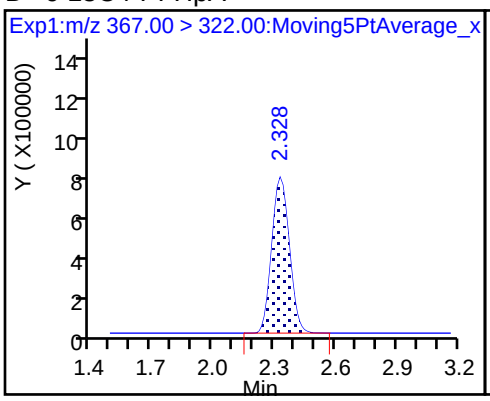
6 Perfluorohexanoic acid



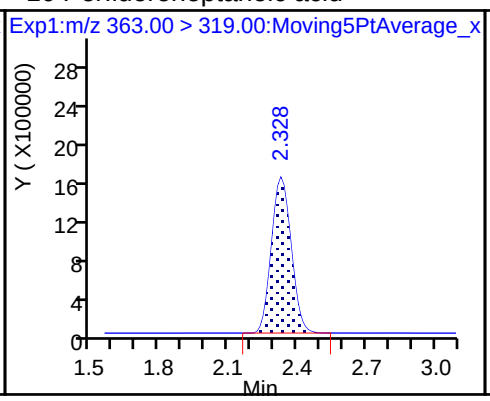
D 7 13C2 PFHxA



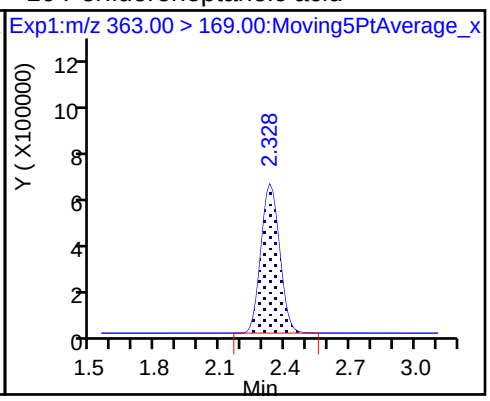
D 9 13C4-PFHpA



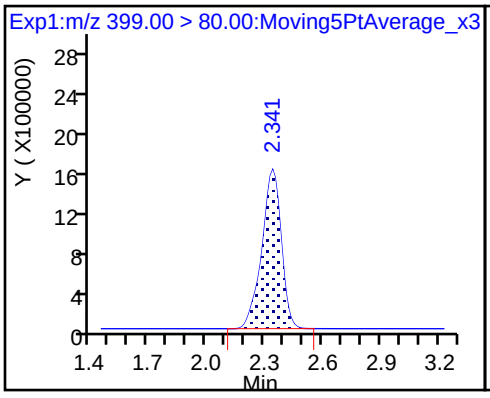
10 Perfluoroheptanoic acid



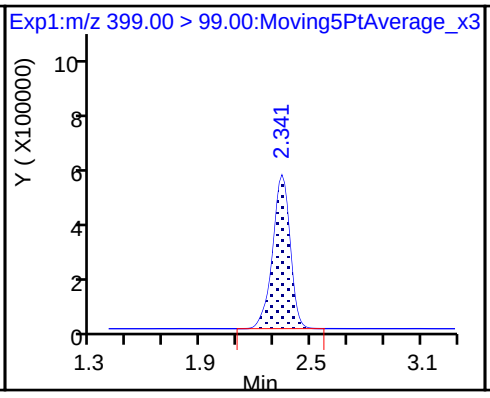
10 Perfluoroheptanoic acid



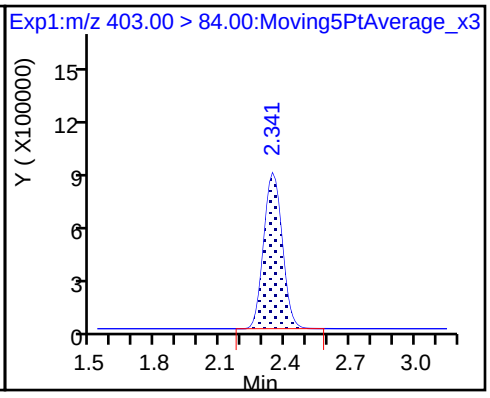
8 Perfluorohexanesulfonic acid



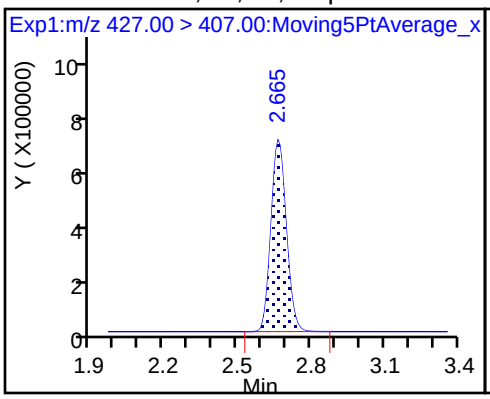
8 Perfluorohexanesulfonic acid



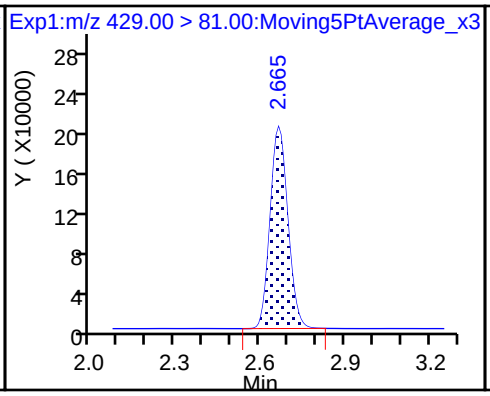
D 11 18O2 PFHxS



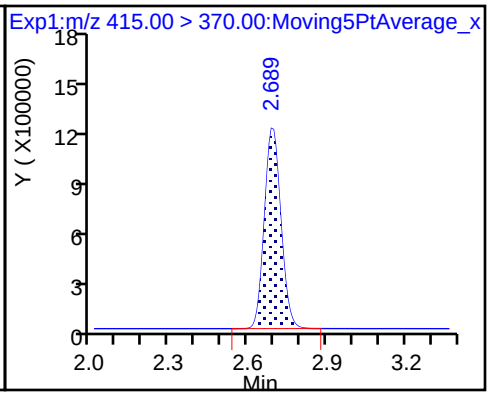
13 Sodium 1H,1H,2H,2H-perfluorooctan



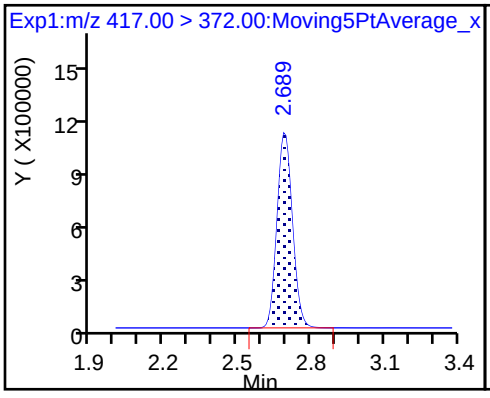
D 12 M2-6:2FTS



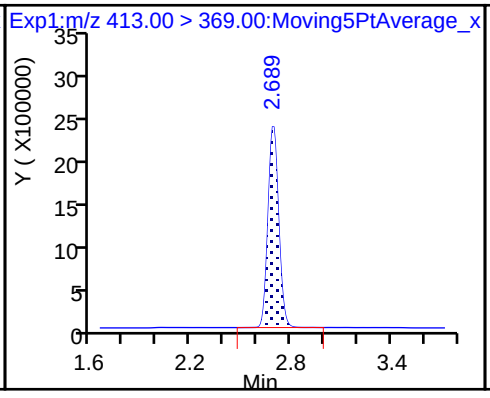
* 62 13C2-PFOA



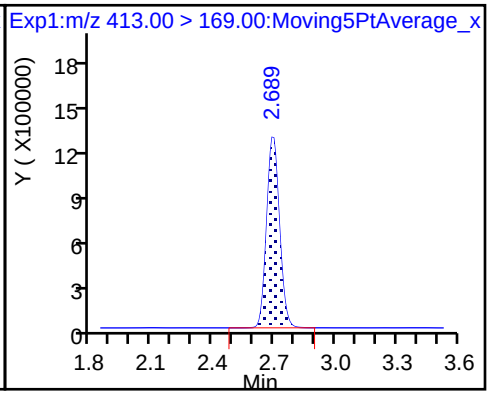
D 14 13C4 PFOA



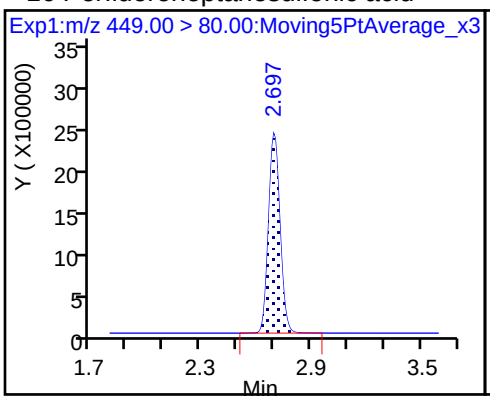
15 Perfluorooctanoic acid



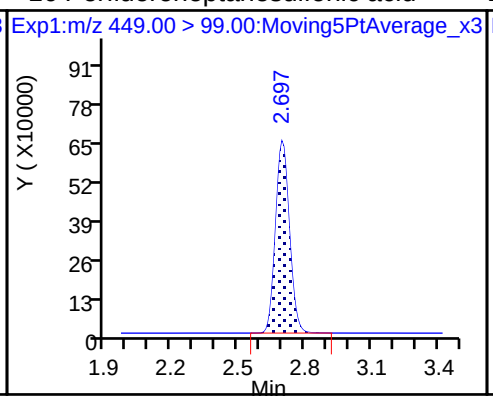
15 Perfluorooctanoic acid



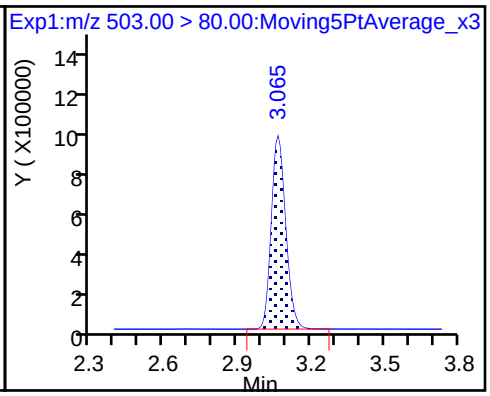
16 Perfluoroheptanesulfonic acid



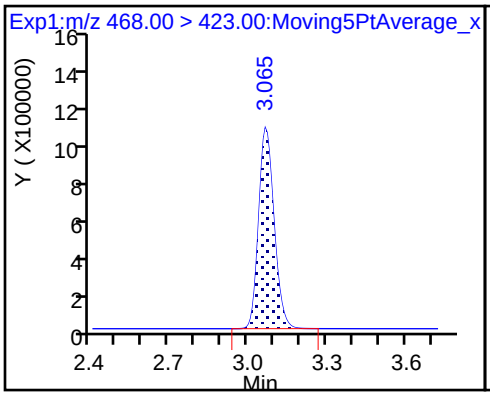
16 Perfluoroheptanesulfonic acid



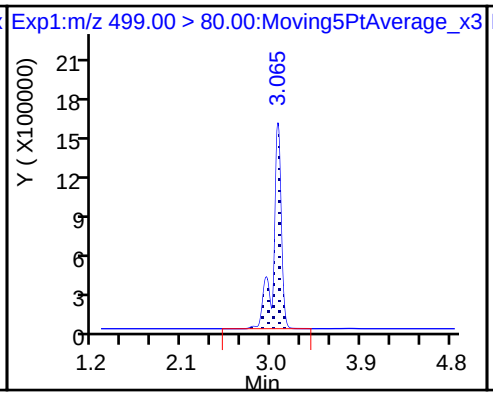
D 18 13C4 PFOS



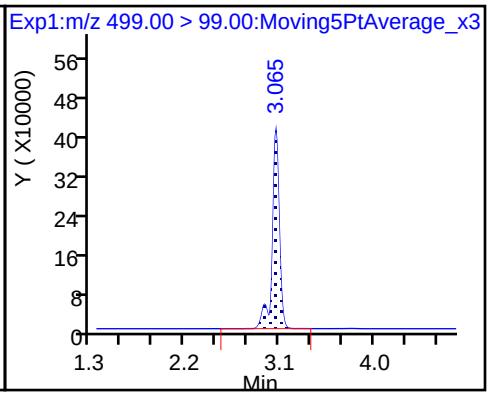
D 19 13C5 PFNA



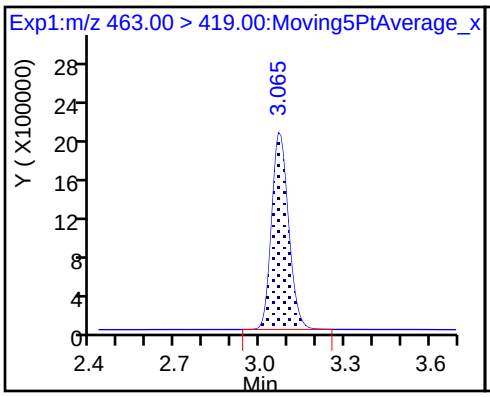
17 Perfluorooctane sulfonic acid



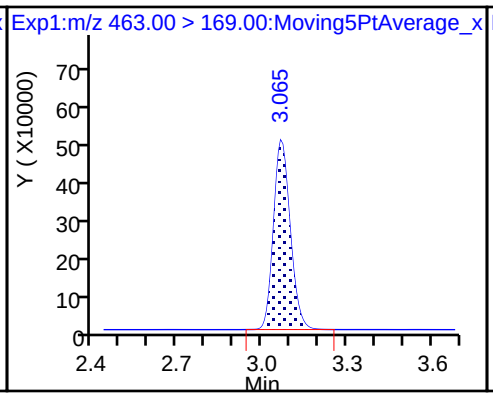
17 Perfluorooctane sulfonic acid



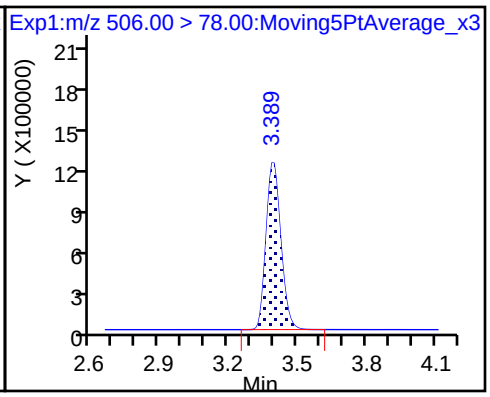
20 Perfluorononanoic acid



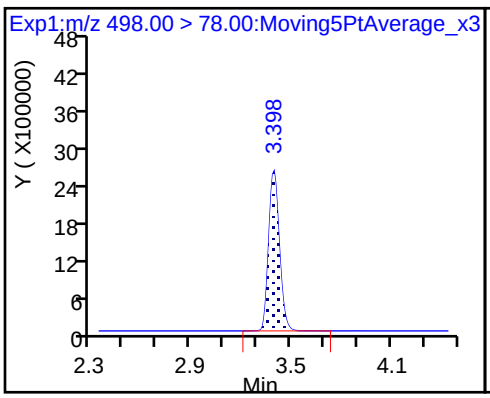
20 Perfluorononanoic acid



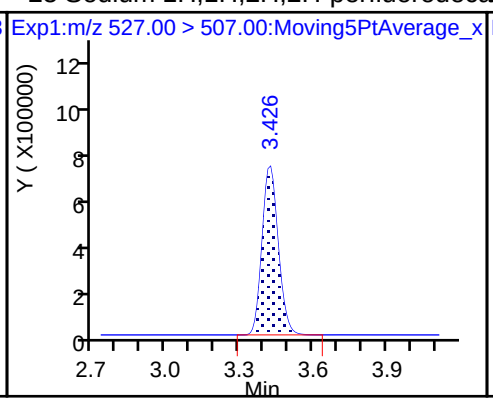
D 21 13C8 FOSA



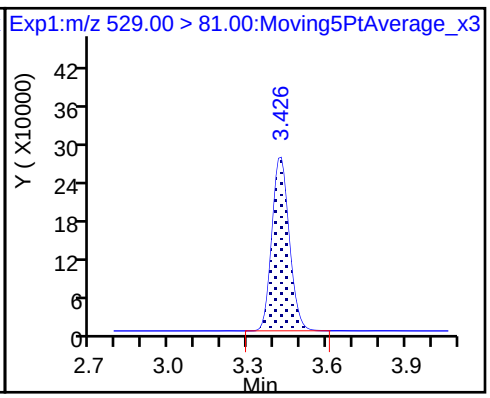
22 Perfluorooctane Sulfonamide



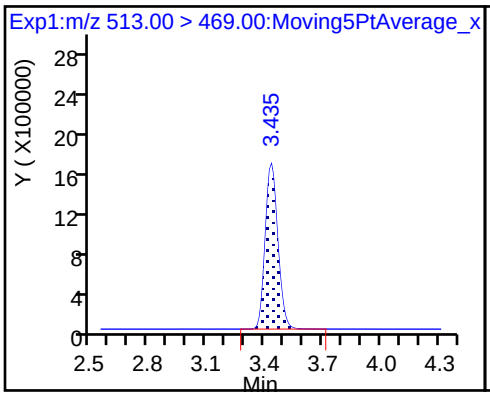
25 Sodium 1H,1H,2H,2H-perfluorodecane



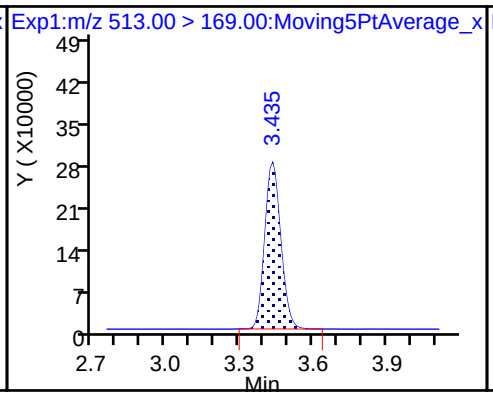
D 26 M2-8:2FTS



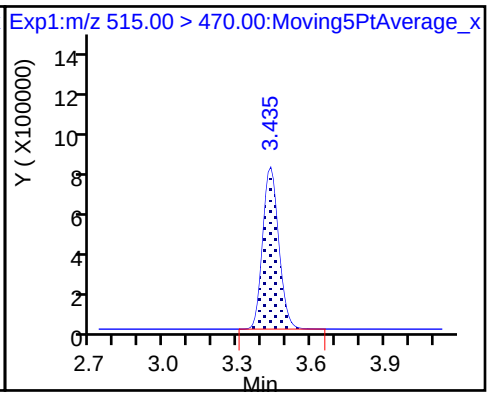
24 Perfluorodecanoic acid



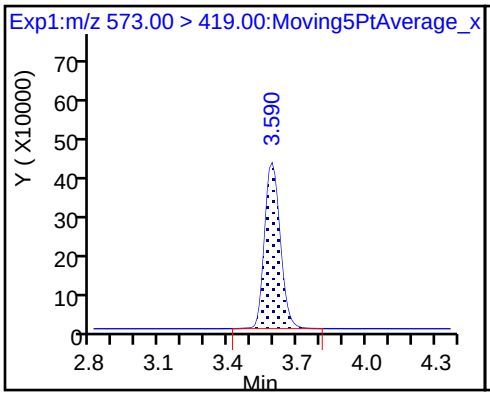
24 Perfluorodecanoic acid



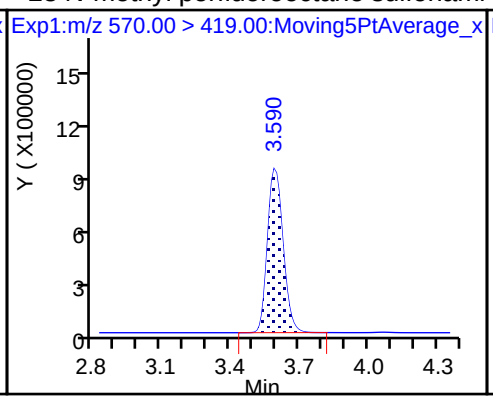
D 23 13C2 PFDA



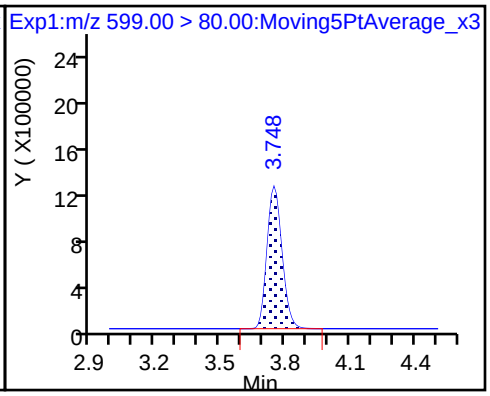
D 27 d3-NMeFOSAA



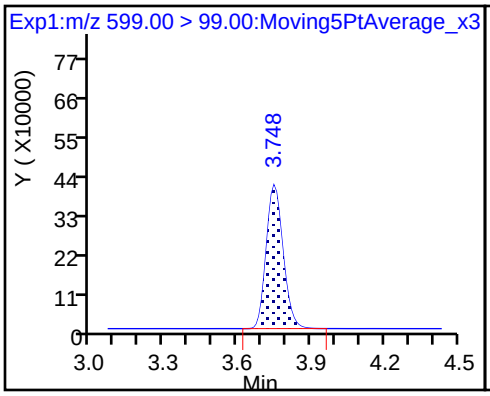
28 N-methyl perfluorooctane sulfonami



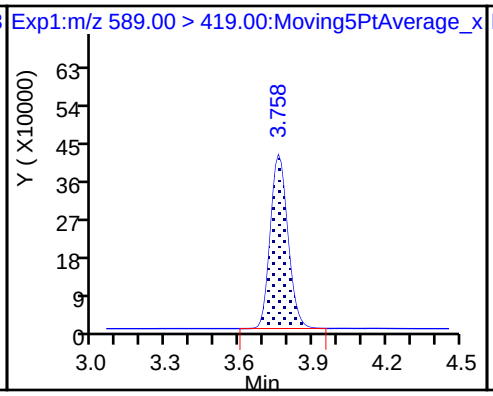
29 Perfluorodecane Sulfonic acid



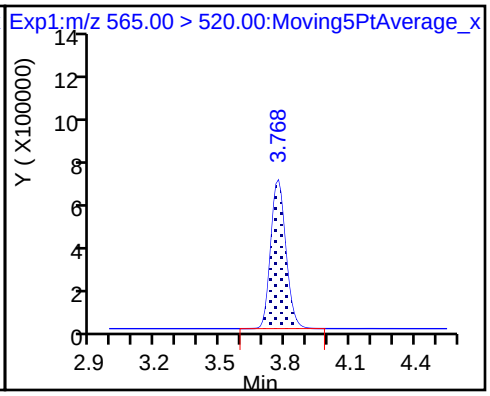
29 Perfluorodecane Sulfonic acid



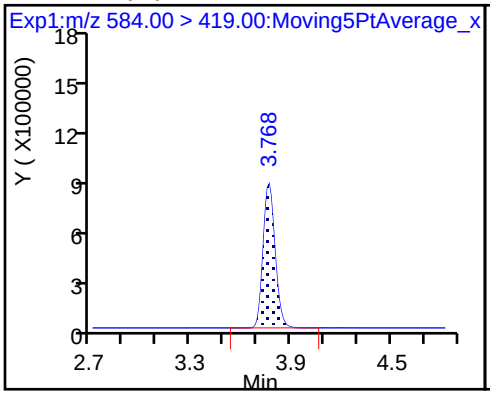
D 32 d5-NEtFOSAA



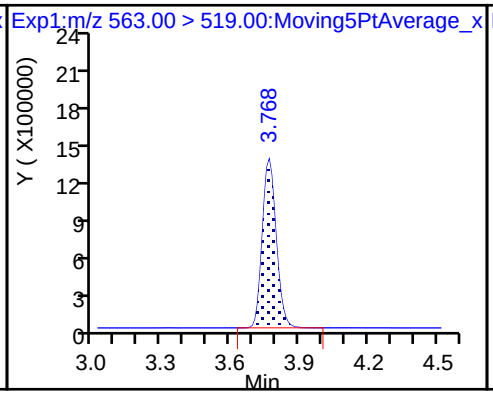
D 30 13C2 PFUnA



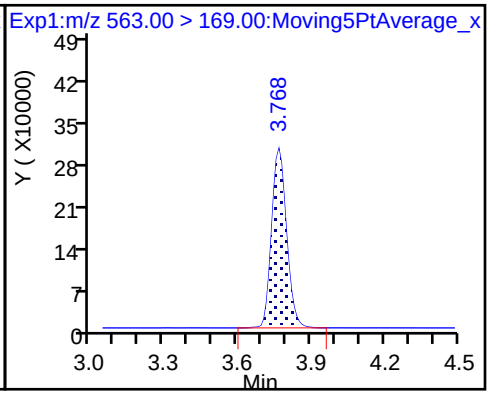
33 N-ethyl perfluorooctane sulfonamid



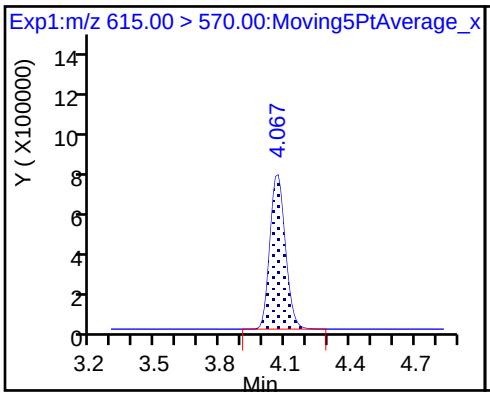
31 Perfluoroundecanoic acid



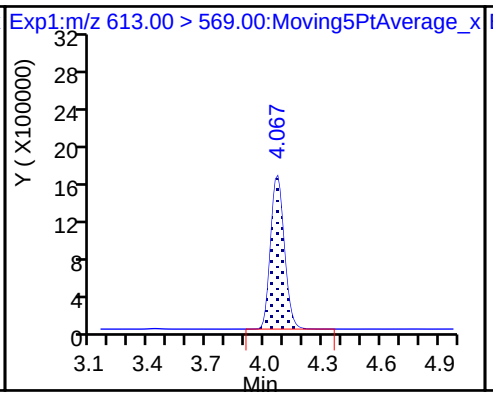
31 Perfluoroundecanoic acid



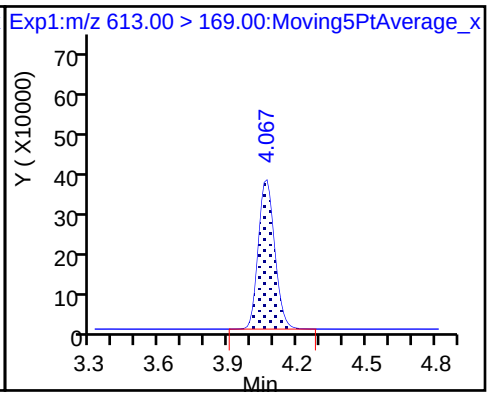
D 36 13C2 PFDoA



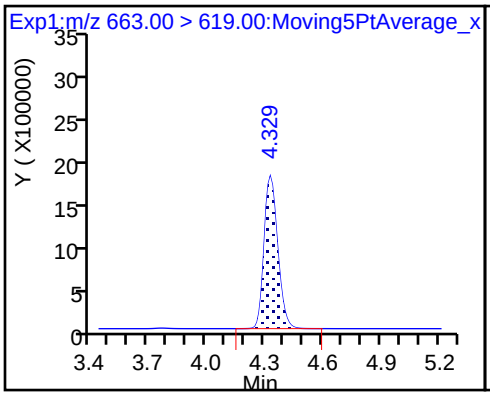
37 Perfluorododecanoic acid



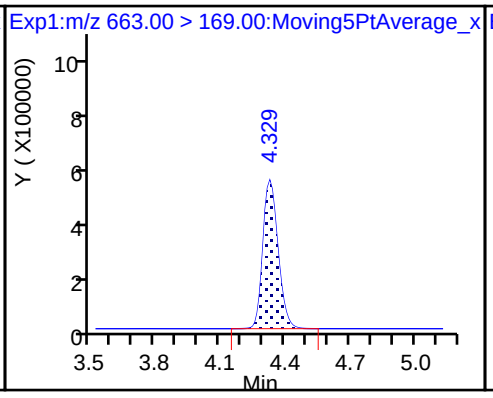
37 Perfluorododecanoic acid



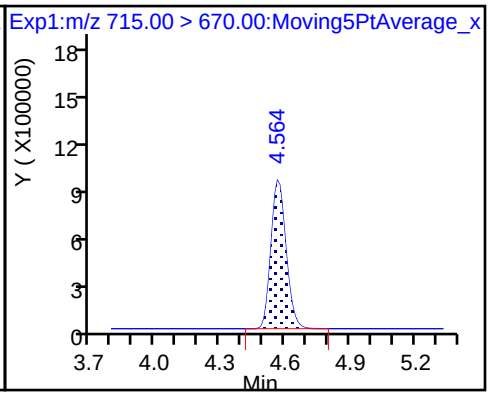
41 Perfluorotridecanoic acid



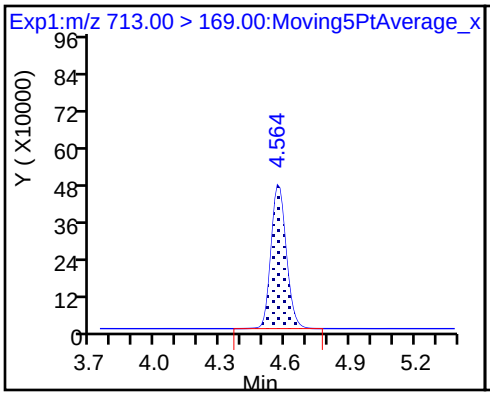
41 Perfluorotridecanoic acid



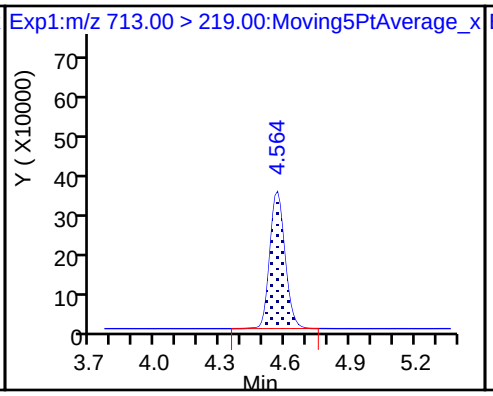
D 43 13C2-PFTeDA



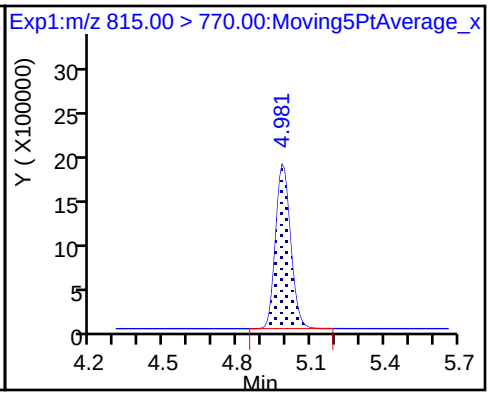
42 Perfluorotetradecanoic acid



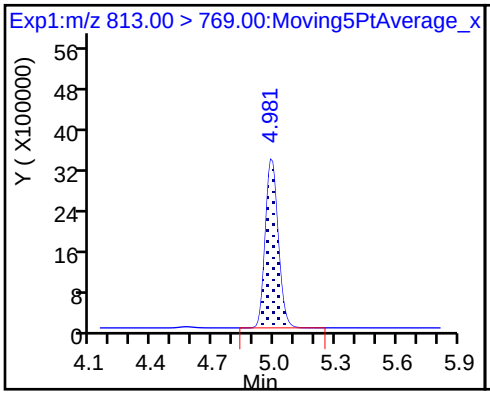
42 Perfluorotetradecanoic acid



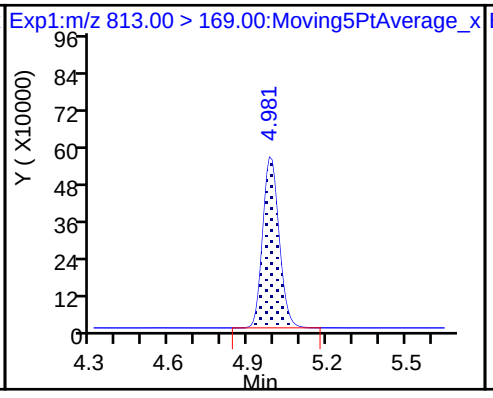
D 44 13C2-PFHxDA



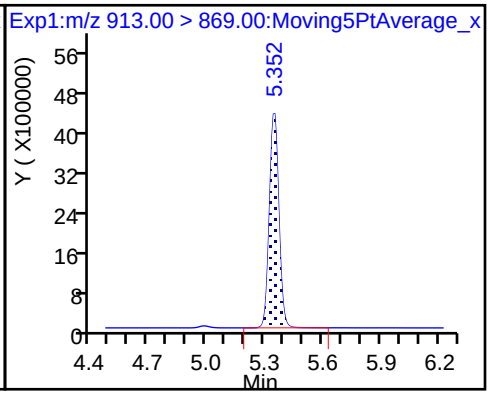
45 Perfluorohexadecanoic acid



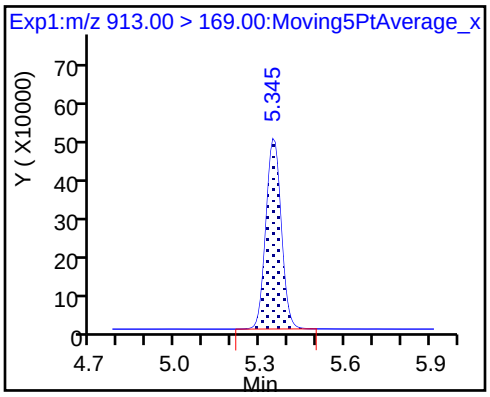
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Mar-2018 19:11:19 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:42:48 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: phomsophat Date: 21-Mar-2018 19:26:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.444	1.447	-0.003	0.537	6100844	2.65		106	75996	
2 Perfluorobutyric acid										
212.90 > 169.00	1.450	1.449	0.001	1.004	22360079	9.72		97.2	8015	
D 3 13C5-PFPeA										
267.90 > 223.00	1.705	1.710	-0.005	0.634	4046135	2.65		106	97369	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.705	1.710	-0.005	1.000	18500324	10.1		101	10333	
D 47 13C3-PFBS										
301.90 > 83.00	1.740	1.743	-0.003	0.647	84106	2.41		104	620	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.740	1.745	-0.005	1.000	24100878	8.57		97.0	85607	
298.90 > 99.00	1.740	1.745	-0.005	1.000	10977956		2.20(1.25-3.74)	97.0	60614	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.959	0.001	0.729	533647	2.21		94.8	6419	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.960	1.962	-0.002	1.000	5293270	9.06		97.0	195984	
D 7 13C2 PFHxA										
315.00 > 270.00	1.992	1.998	-0.006	0.740	4257747	2.52		101	74703	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.992	1.998	-0.006	1.000	17232401	9.90		99.0	44074	
313.00 > 119.00	1.992	1.998	-0.006	1.000	1540944		11.18(5.03-15.10)	99.0	34184	
D 9 13C4-PFHpA										
367.00 > 322.00	2.335	2.333	0.002	0.868	4129064	2.48		99.0	69460	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.335	2.335	0.0	1.000	17149506	10.0		100	30306	
363.00 > 169.00	2.335	2.335	0.0	1.000	6613832		2.59(1.13-3.40)	100	48365	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.348	2.346	0.002	1.000	19742275	8.51		93.5	51185	
399.00 > 99.00	2.348	2.346	0.002	1.000	7022065		2.81(1.50-4.49)	93.5	22400	
D 11 18O2 PFHxS										
403.00 > 84.00	2.348	2.348	0.0	0.873	4928998	2.40		101	64840	
D 12 M2-6:2FTS										
429.00 > 81.00	2.667	2.672	-0.005	0.991	845912	2.45		103	18074	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.667	2.672	-0.005	1.000	5982174	9.63		102	108087	
D 14 13C4 PFOA										
417.00 > 372.00	2.691	2.695	-0.004	1.000	4169807	2.44		97.7	59737	
* 62 13C2-PFOA										
415.00 > 370.00	2.691	2.695	-0.004		4550962	2.50			65302	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.691	2.697	-0.006	1.000	18212815	9.67		96.7	5500	
413.00 > 169.00	2.691	2.697	-0.006	1.000	10080594		1.81(0.84-2.52)	96.7	18247	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.699	2.703	-0.004	1.000	17826274	9.17		96.3	103505	
449.00 > 99.00	2.699	2.703	-0.004	1.000	4999808		3.57(1.94-5.82)	96.3	34087	
D 18 13C4 PFOS										
503.00 > 80.00	3.067	3.068	-0.001	1.140	3625826	2.42		101	21910	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.067	3.070	-0.003	1.000	15932478	9.43		102	19647	M
499.00 > 99.00	3.067	3.070	-0.003	1.000	3468678		4.59(2.31-6.93)	102	82323	
D 19 13C5 PFNA										
468.00 > 423.00	3.067	3.070	-0.003	1.140	3729104	2.48		99.1	64949	
20 Perfluorononanoic acid										
463.00 > 419.00	3.067	3.072	-0.005	1.000	15598692	10.5		105	18229	
463.00 > 169.00	3.067	3.072	-0.005	1.000	3729122		4.18(1.90-5.69)	105	50397	
D 21 13C8 FOSA										
506.00 > 78.00	3.393	3.396	-0.004	1.261	4957065	2.46		98.2	34240	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.393	3.397	-0.005	1.000	18741888	9.59		95.9	103813	
D 26 M2-8:2FTS										
529.00 > 81.00	3.420	3.426	-0.006	1.271	1040808	2.23		93.1	16509	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.420	3.426	-0.006	1.000	5541846	10.0		104	80664	
D 23 13C2 PFDA										
515.00 > 470.00	3.429	3.435	-0.006	1.274	3248595	2.46		98.5	64981	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.429	3.435	-0.006	1.000	12786299	9.96		99.6	52903	
513.00 > 169.00	3.429	3.435	-0.006	1.000	2320539		5.51(2.36-7.09)	99.6	85814	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.584	3.591	-0.007	1.332	1816501	2.62		105	27279	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.595	3.594	0.001	1.003	7642171	10.5		105	37247	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.744	3.749	-0.005	1.000	10545265	10.2		106	168906	
599.00 > 99.00	3.744	3.749	-0.005	1.000	3537256		2.98(1.39-4.16)	106	56975	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.754	3.759	-0.005	1.395	1842170	2.33		93.2	10683	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.764	3.768	-0.004	1.000	10065814	10.5		105	36194	
563.00 > 169.00	3.764	3.768	-0.004	1.000	2312836		4.35(2.12-6.36)	105	50289	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.764	3.768	-0.004	1.003	6938724	10.1		101	87182	
D 30 13C2 PFUnA										
565.00 > 520.00	3.764	3.768	-0.004	1.399	2787354	2.36		94.5	52309	
D 36 13C2 PFDoA										
615.00 > 570.00	4.063	4.066	-0.003	1.510	3528118	2.64		105	29032	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.063	4.068	-0.005	1.000	14548343	9.85		98.5	12448	
613.00 > 169.00	4.063	4.068	-0.005	1.000	3568672		4.08(2.13-6.40)	98.5	36734	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.325	4.329	-0.004	1.000	14795343	9.52		95.2	10222	
663.00 > 169.00	4.325	4.329	-0.004	1.000	4868530		3.04(1.25-3.76)	95.2	33458	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.561	4.568	-0.007	1.695	4321269	2.64		106	28163	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.561	4.571	-0.010	1.000	4319552	10.1		101	40804	
713.00 > 219.00	4.561	4.571	-0.010	1.000	3132710		1.38(0.71-2.13)	101	38066	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.978	4.987	-0.009	1.850	6875940	2.56		103	18896	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.987	4.989	-0.002	1.002	23776796	9.49		94.9	6474	
813.00 > 169.00	4.978	4.989	-0.011	1.000	4555370		5.22(2.86-8.58)	94.9	19192	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.349	5.354	-0.005	1.000	24460507	9.62		96.2	5275	
913.00 > 169.00	5.342	5.354	-0.012	0.999	3189601		7.67(3.83-11.48)	96.2	10811	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL7_00004 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:42:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Injection Date: 21-Mar-2018 19:11:19 Instrument ID: A8_N

Lims ID: IC L7 Full

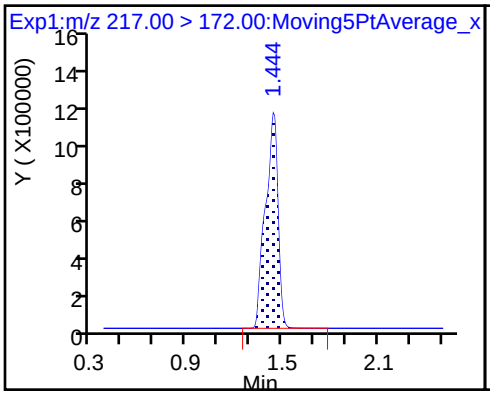
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

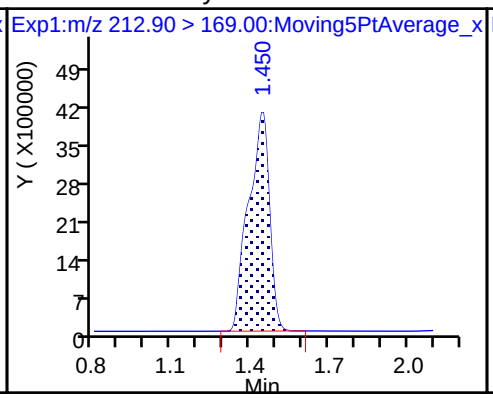
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

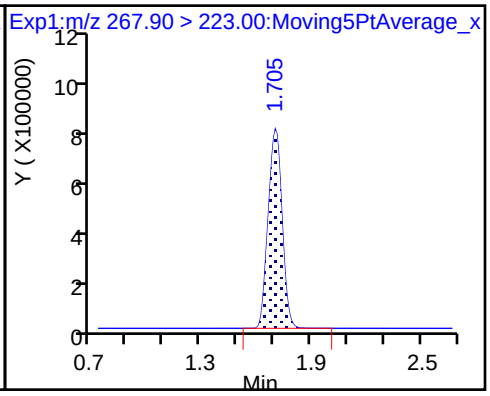
D 1 13C4 PFBA



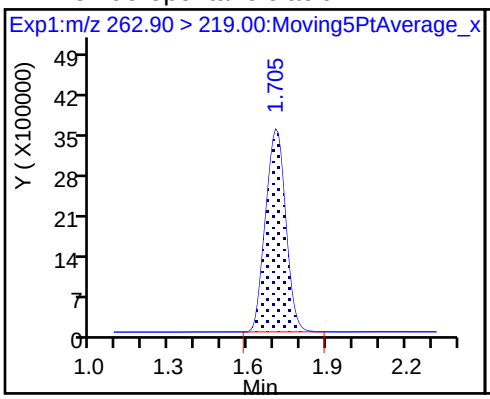
2 Perfluorobutyric acid



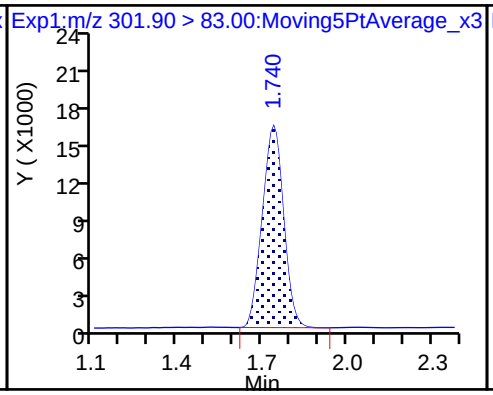
D 3 13C5-PFPeA



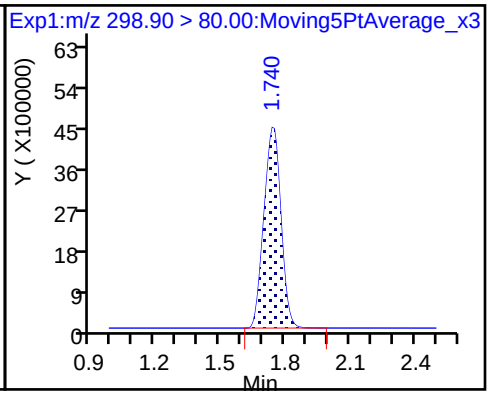
4 Perfluoropentanoic acid



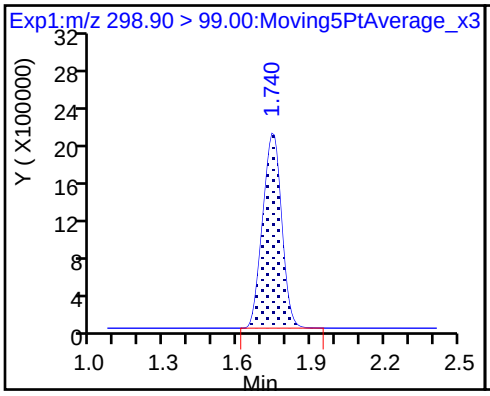
D 47 13C3-PFBS



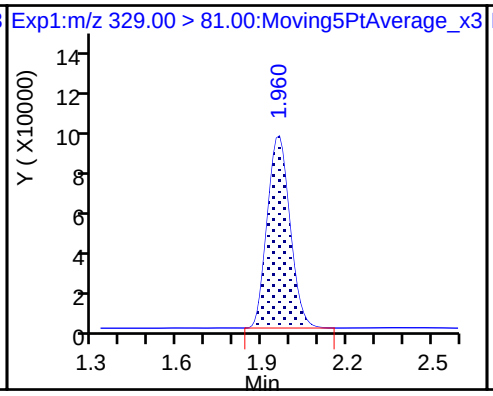
5 Perfluorobutanesulfonic acid



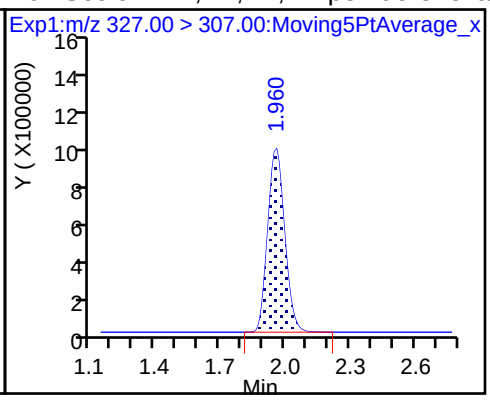
5 Perfluorobutanesulfonic acid



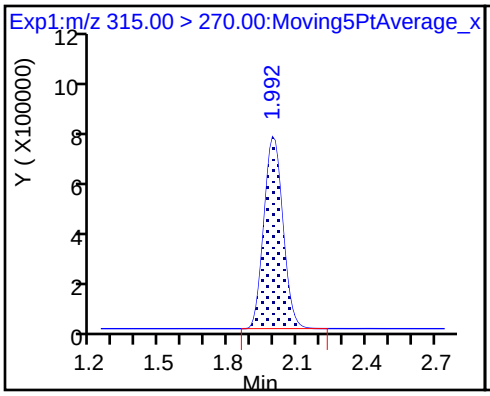
D 60 M2-4:2FTS



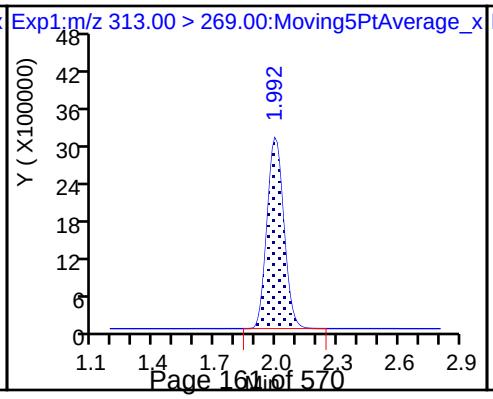
61 Sodium 1H,1H,2H,2H-perfluorohexane



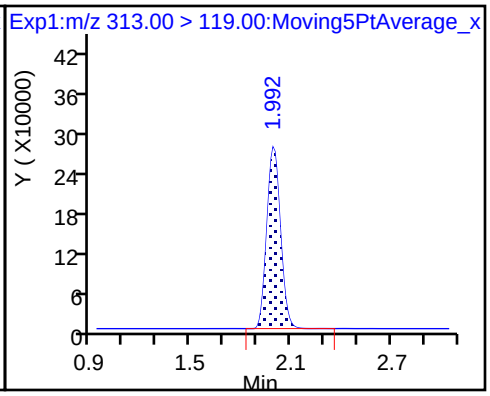
D 7 13C2 PFHxA



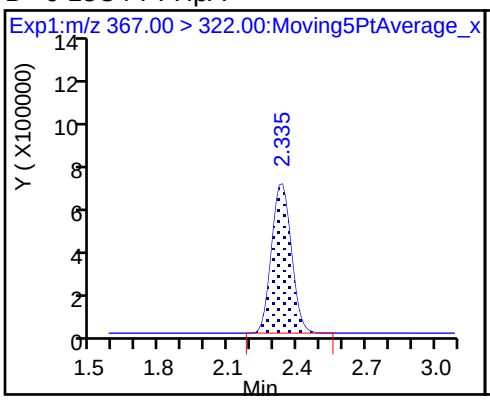
6 Perfluorohexanoic acid



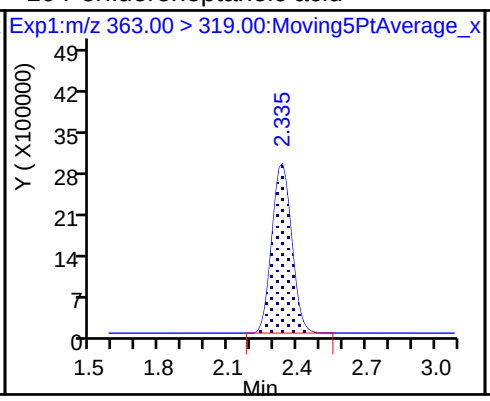
6 Perfluorohexanoic acid



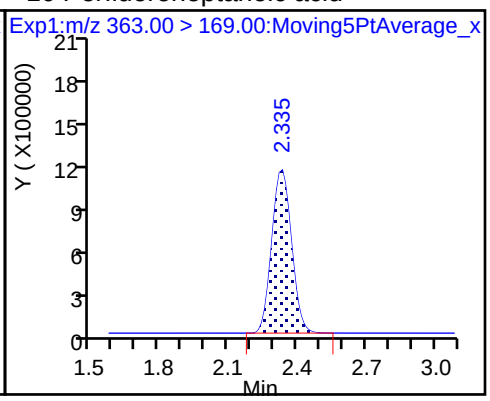
D 9 13C4-PFHpA



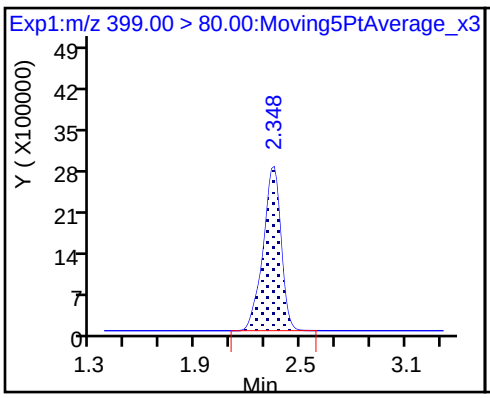
10 Perfluoroheptanoic acid



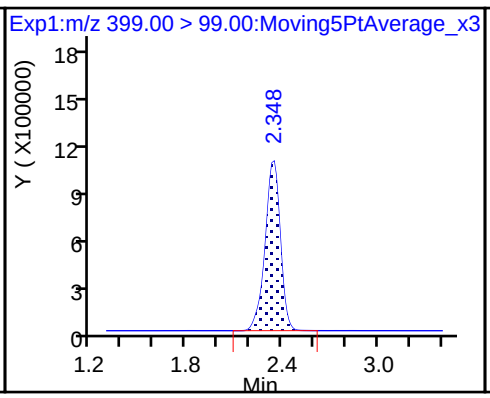
10 Perfluoroheptanoic acid



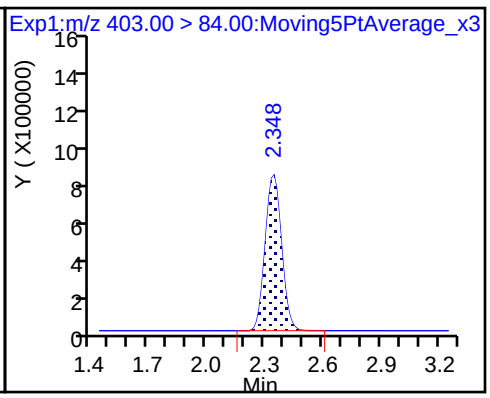
8 Perfluorohexanesulfonic acid



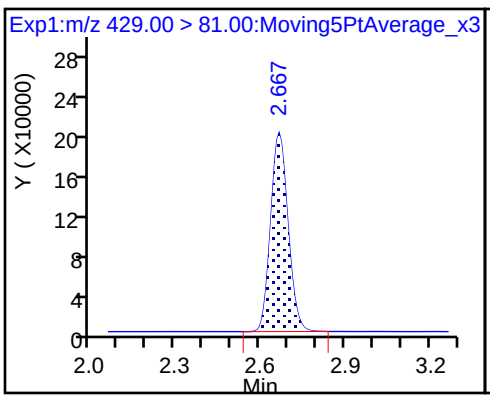
8 Perfluorohexanesulfonic acid



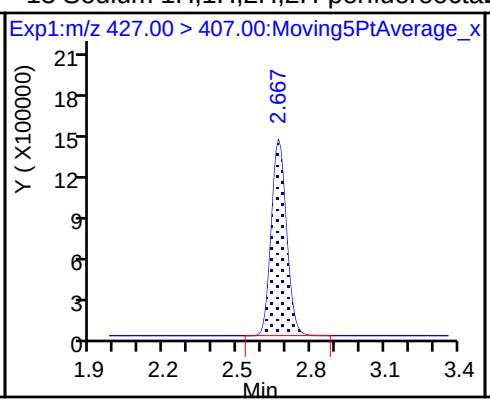
D 11 18O2 PFHxS



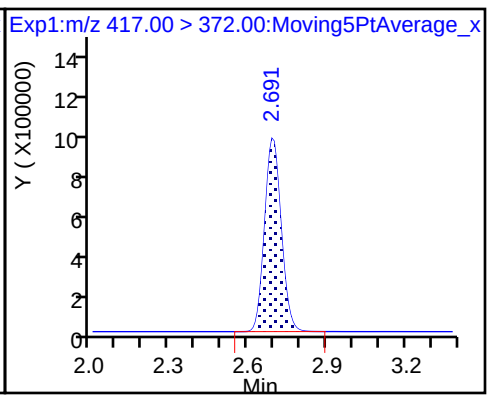
D 12 M2-6:2FTS



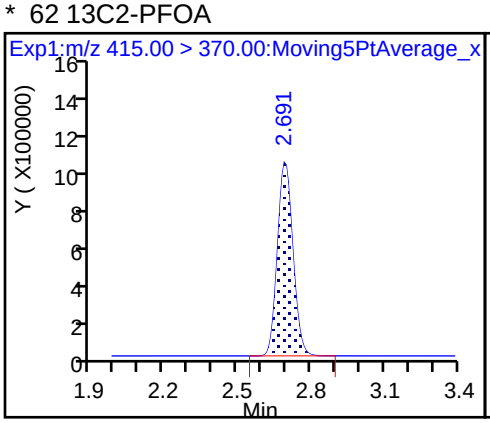
13 Sodium 1H,1H,2H,2H-perfluorooctane



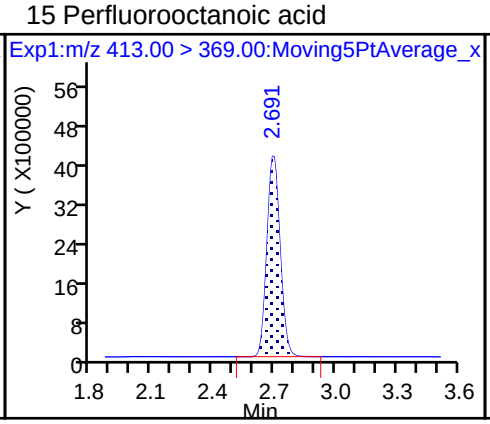
D 14 13C4 PFOA



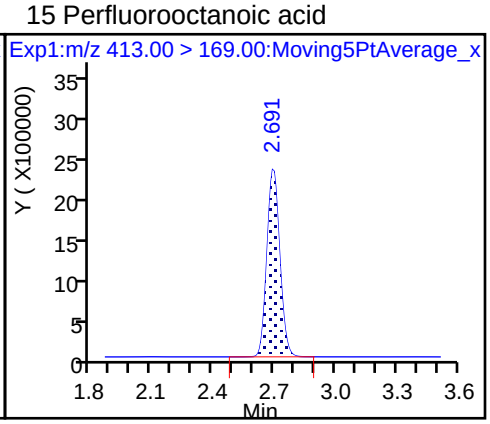
* 62 13C2-PFOA



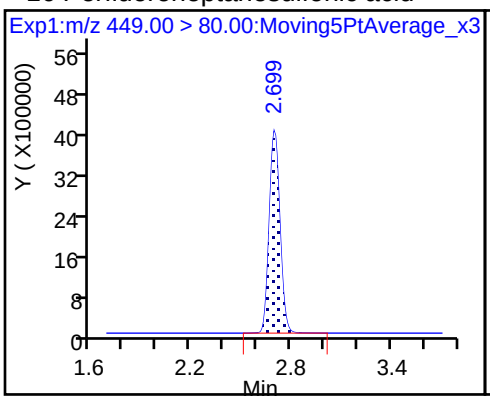
15 Perfluorooctanoic acid



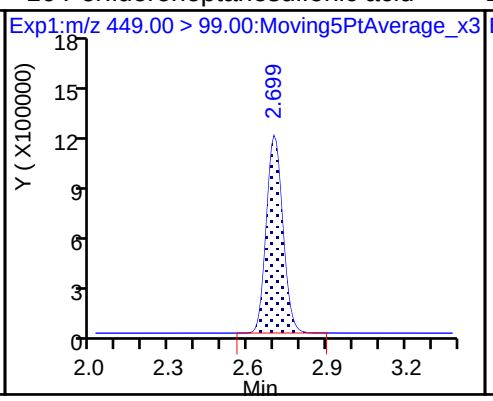
15 Perfluorooctanoic acid



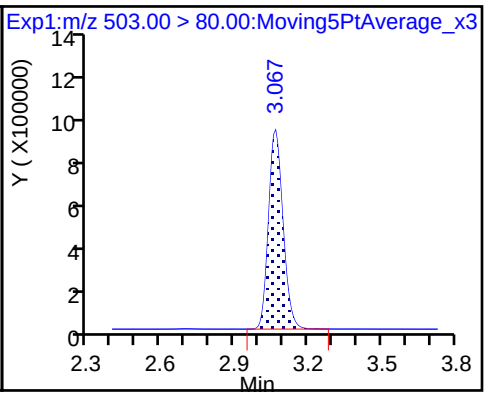
16 Perfluoroheptanesulfonic acid



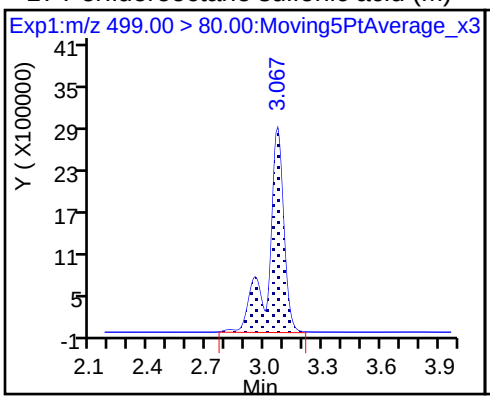
16 Perfluoroheptanesulfonic acid



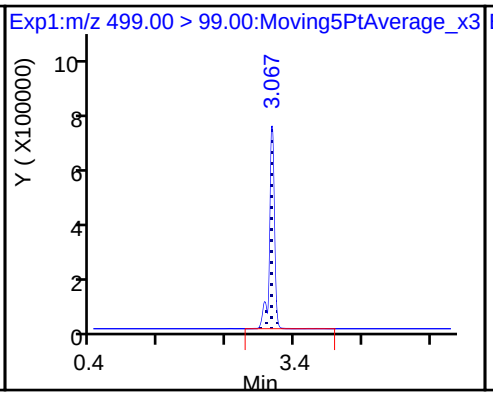
D 18 13C4 PFOS



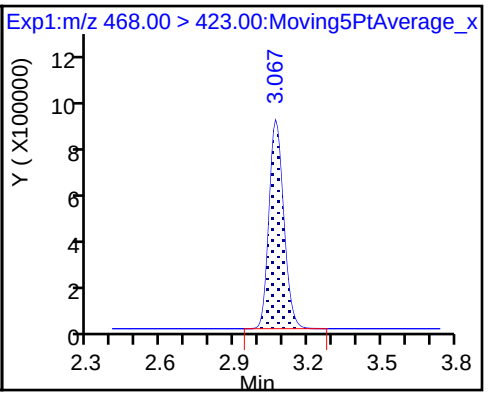
17 Perfluorooctane sulfonic acid (M)



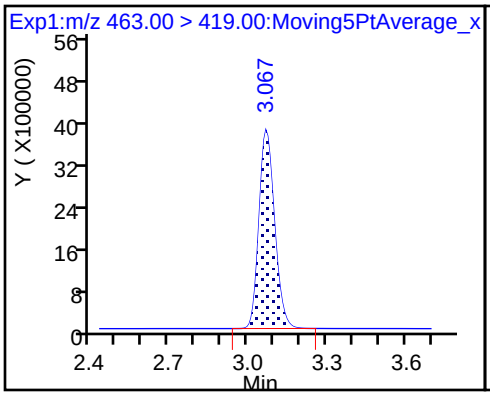
17 Perfluorooctane sulfonic acid



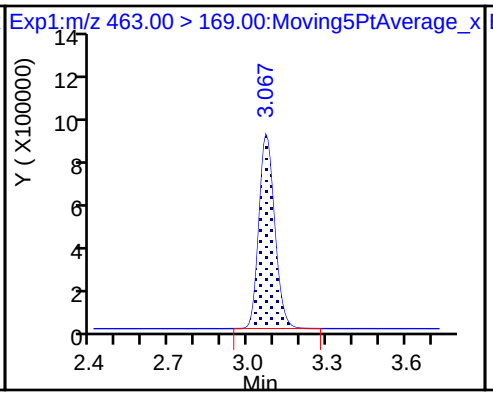
D 19 13C5 PFNA



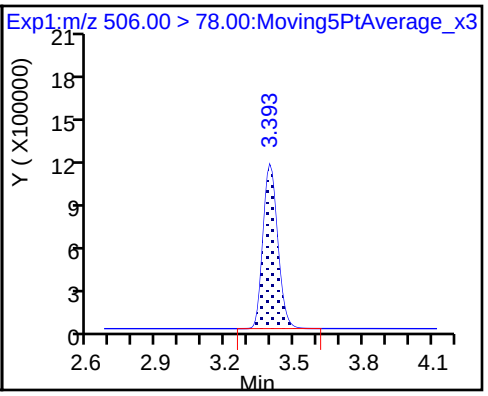
20 Perfluorononanoic acid



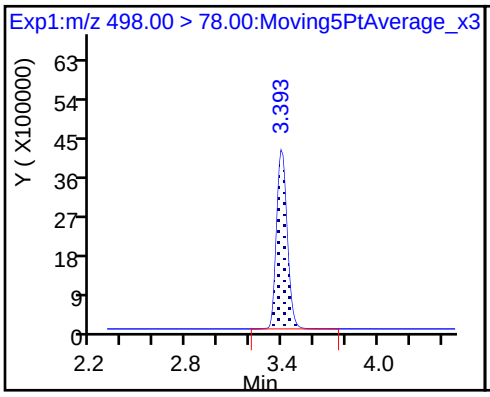
20 Perfluorononanoic acid



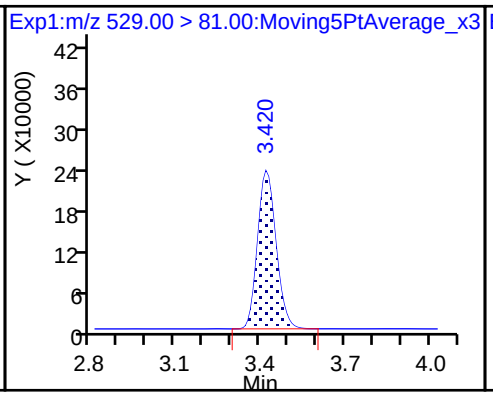
D 21 13C8 FOSA



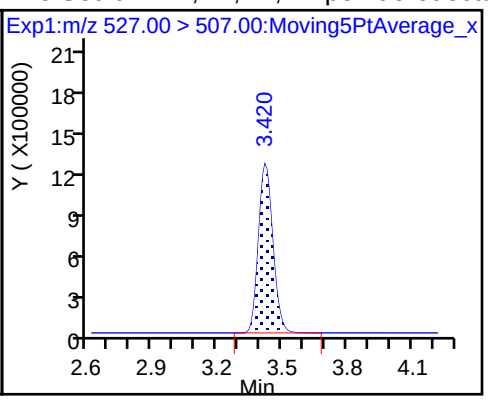
22 Perfluorooctane Sulfonamide



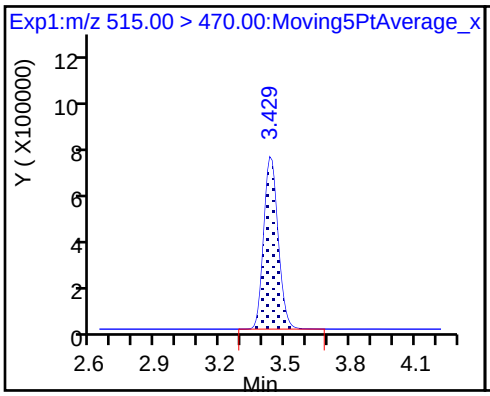
D 26 M2-8:2FTS



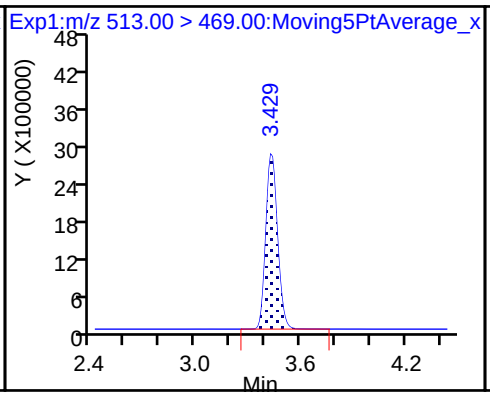
25 Sodium 1H,1H,2H,2H-perfluorodecane



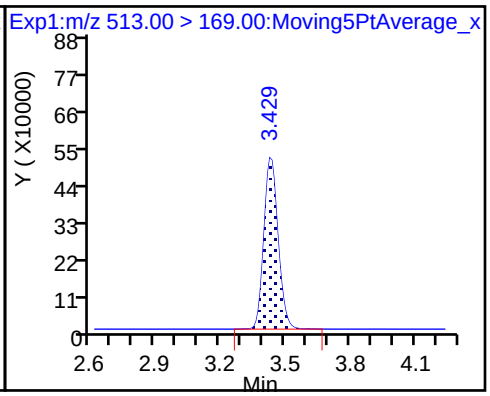
D 23 13C2 PFDA



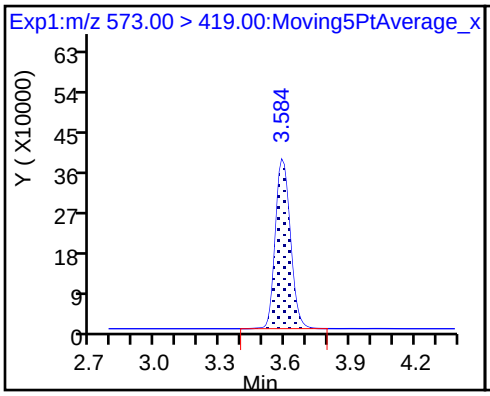
24 Perfluorodecanoic acid



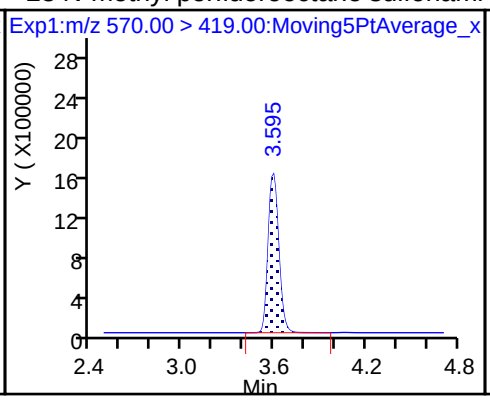
24 Perfluorodecanoic acid



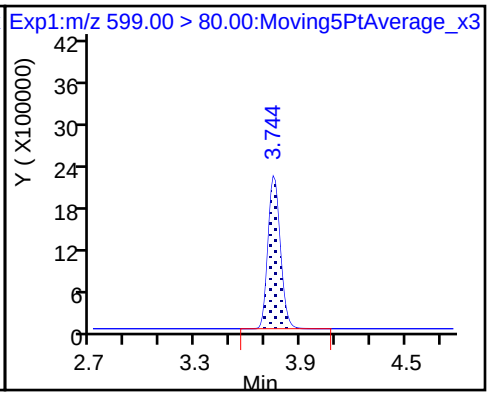
D 27 d3-NMeFOSAA



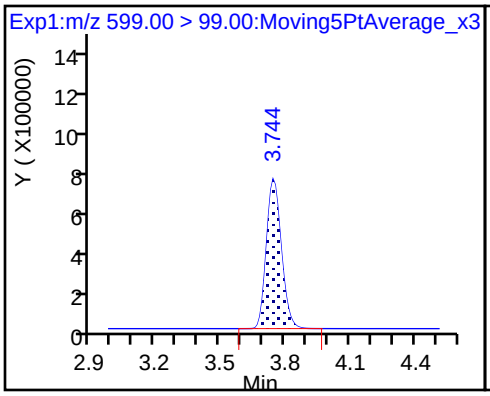
28 N-methyl perfluorooctane sulfonami



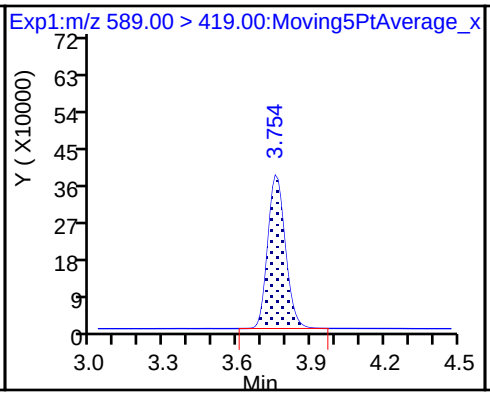
29 Perfluorodecane Sulfonic acid



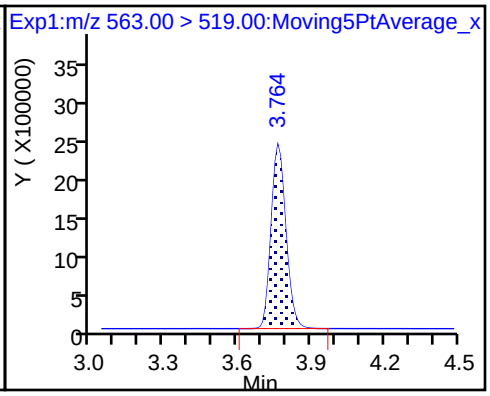
29 Perfluorodecane Sulfonic acid



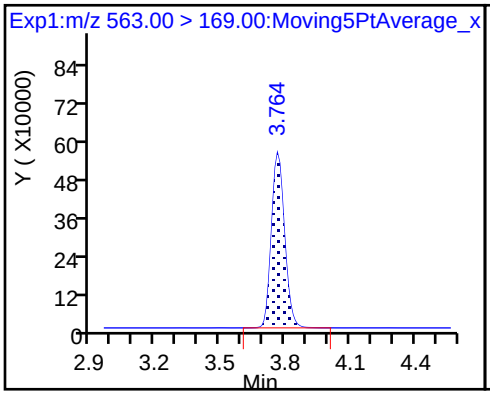
D 32 d5-NEtFOSAA



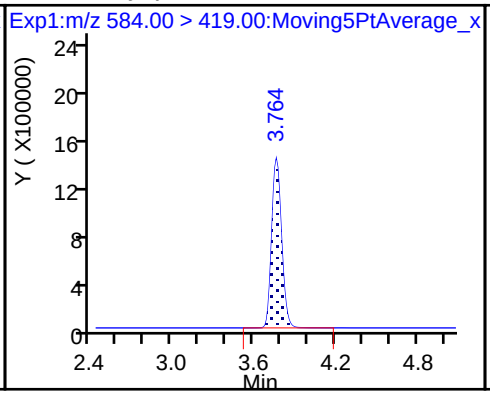
31 Perfluoroundecanoic acid



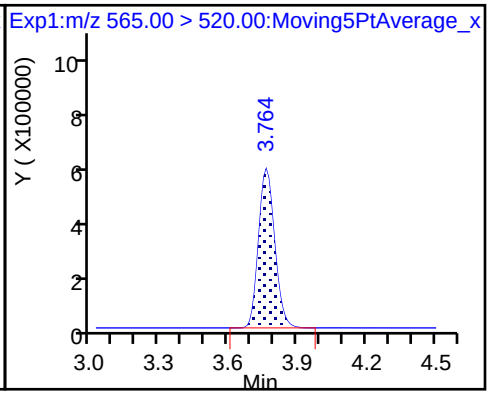
31 Perfluoroundecanoic acid



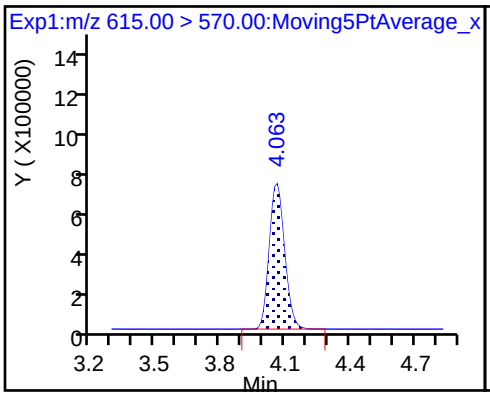
33 N-ethyl perfluorooctane sulfonamid



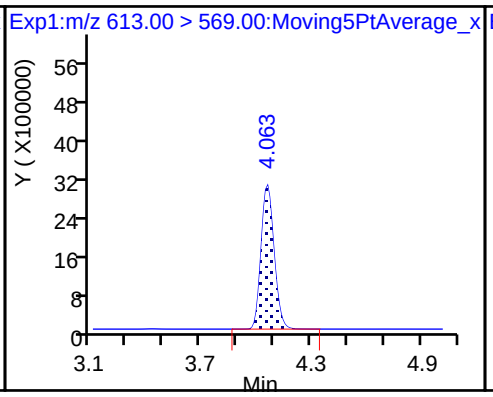
D 30 13C2 PFUnA



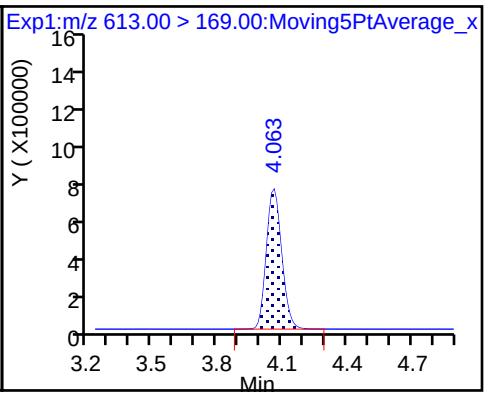
D 36 13C2 PFDoA



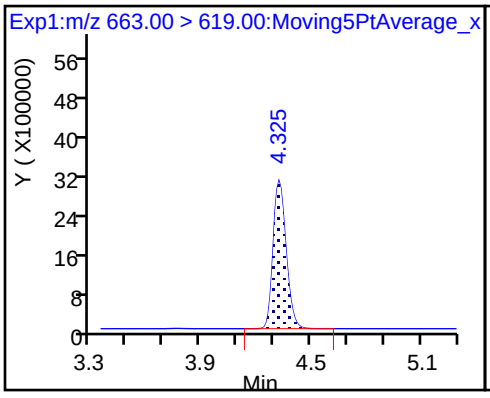
37 Perfluorododecanoic acid



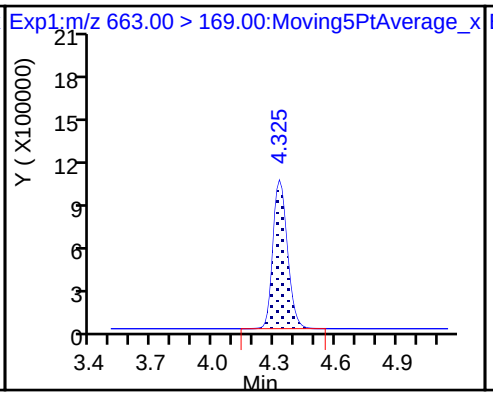
37 Perfluorododecanoic acid



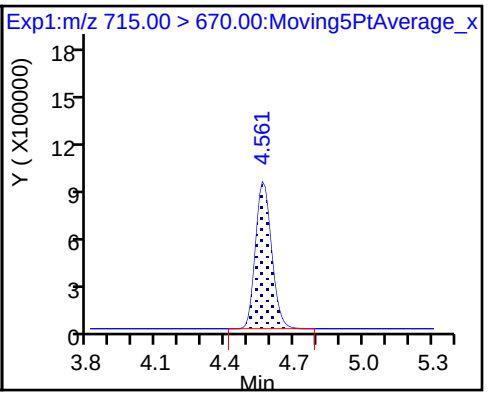
41 Perfluorotridecanoic acid



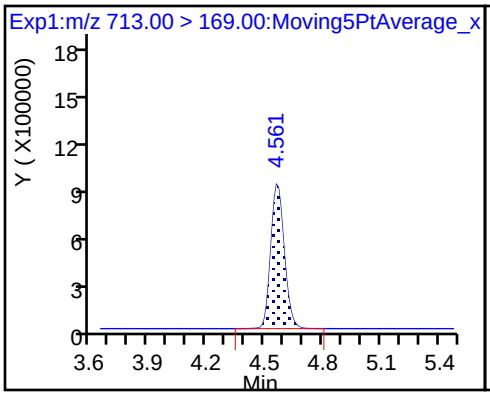
41 Perfluorotridecanoic acid



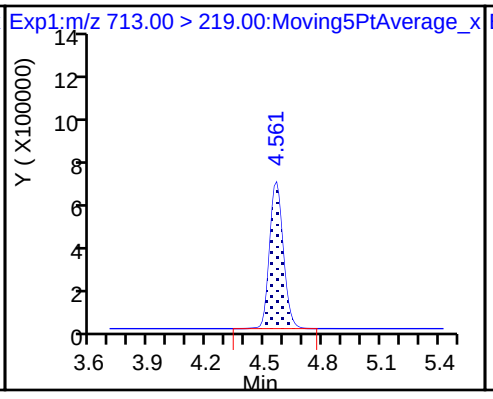
D 43 13C2-PFTeDA



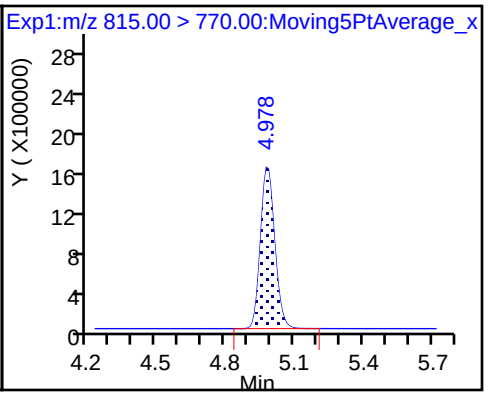
42 Perfluorotetradecanoic acid



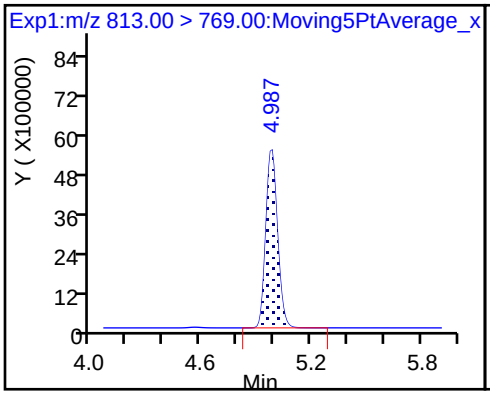
42 Perfluorotetradecanoic acid



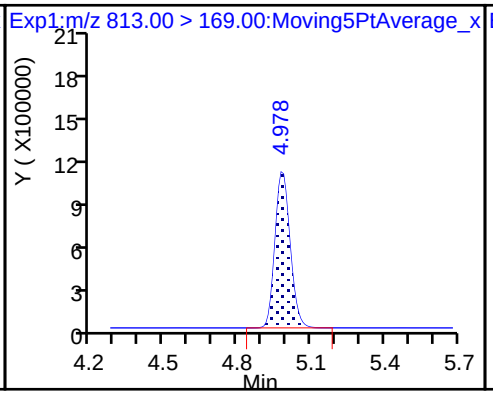
D 44 13C2-PFHxDA



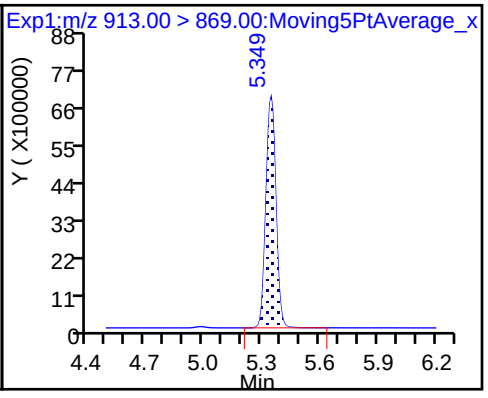
45 Perfluorohexadecanoic acid



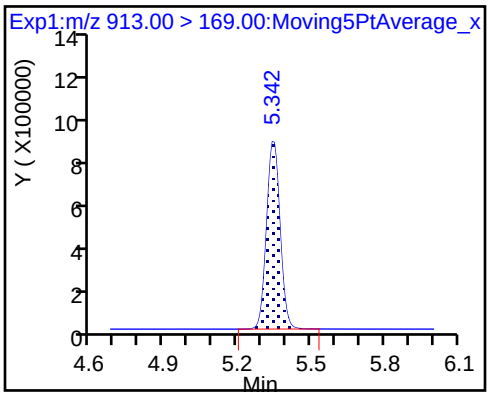
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

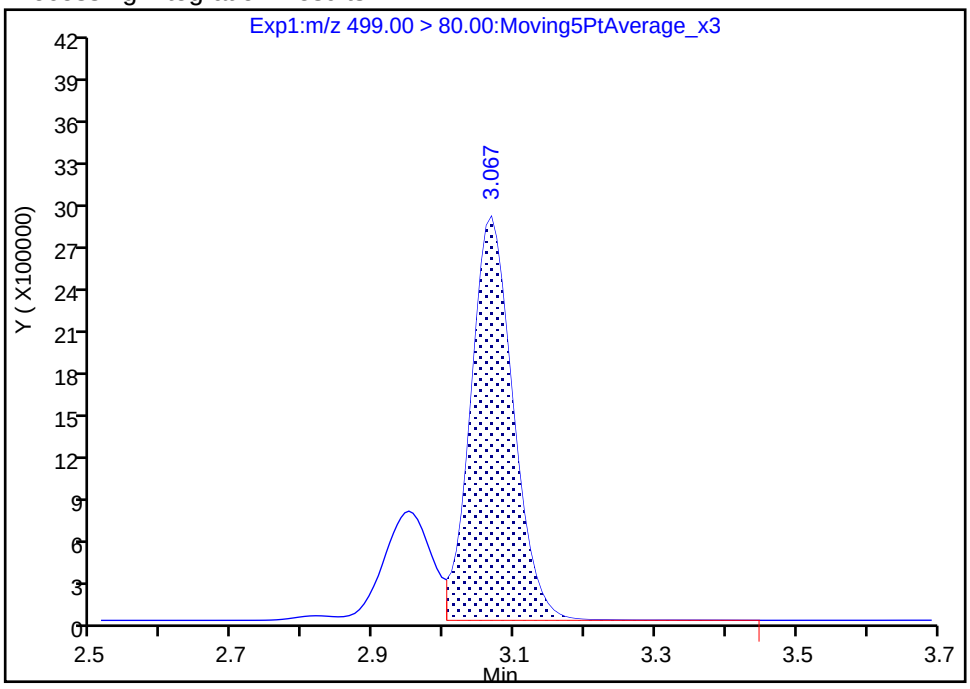
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d
Injection Date: 21-Mar-2018 19:11:19 Instrument ID: A8_N
Lims ID: IC L7 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

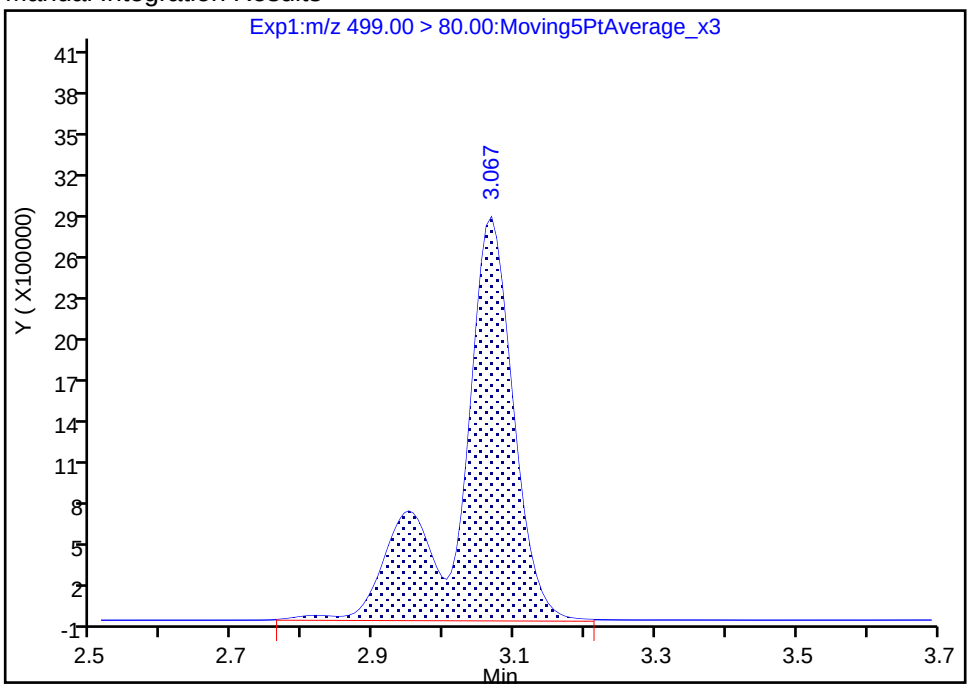
Processing Integration Results

RT: 3.07
Area: 12038170
Amount: 7.385381
Amount Units: ng/ml



Manual Integration Results

RT: 3.07
Area: 15932478
Amount: 9.427786
Amount Units: ng/ml



Reviewer: phomsophat, 21-Mar-2018 19:25:51
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-215537/2	2018.03.29A_ICALB_002.d
Level 2	IC 320-215537/3	2018.03.29A_ICALB_003.d
Level 3	IC 320-215537/4	2018.03.29A_ICALB_004.d
Level 4	IC 320-215537/5	2018.03.29A_ICALB_005.d
Level 5	IC 320-215537/6	2018.03.29A_ICALB_006.d
Level 6	IC 320-215537/7	2018.03.29A_ICALB_007.d
Level 7	IC 320-215537/8	2018.03.29A_ICALB_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.8915 0.9577	0.9023 0.9406	0.9140	0.9051	0.9581	AveID		0.9242				3.0		35.0			
Perfluoropentanoic acid (PFPeA)	1.2220 1.2408	1.2225 1.1629	1.1904	1.1561	1.1836	AveID		1.1969				2.7		35.0			
Perfluorobutanesulfonic acid (PFBS)	77.330 79.402	79.922 76.189	78.392	76.753	84.255	AveID		78.892				3.5		50.0			
4:2 FTS	17.852 17.231	19.686 16.075	16.275	15.644	18.025	AveID		17.255				8.1		50.0			
Perfluorohexanoic acid (PFHxA)	1.0295 1.0138	1.0079 1.0621	1.0176	0.9811	1.0511	AveID		1.0233				2.7		35.0			
Perfluoropentanesulfonic acid (PFPeS)	73.648 73.909	67.432 67.079	68.106	70.202	78.033	AveID		71.201				5.8		50.0			
HFPO-DA (GenX)	3.2400 3.3850	3.4440 3.4890	4.0163	3.0865	3.1491	AveID		3.4014				9.1		35.0			
Perfluoroheptanoic acid (PFHpA)	1.2984 1.0384	0.9988 1.0329	1.0376	1.0673	1.1322	AveID		1.0865				9.4		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3241 1.0655	1.1881 1.0827	1.0477	0.9728	1.1375	AveID		1.1169				10.2		35.0			
Adona	3.5522 3.5314	3.4555 2.9068	3.8872	3.6399	3.9734	AveID		3.5638				9.7		50.0			
6:2FTS	2.3438 1.7979	2.0189 1.8129	1.7183	1.6359	1.7453	AveID		1.8676				12.9		35.0			
Perfluorooctanoic acid (PFOA)	1.2974 1.2077	1.3221 1.1286	1.1178	1.0855	1.1415	AveID		1.1858				7.8		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.3460 1.4008	1.2410 1.2764	1.3969	1.2914	1.3764	AveID		1.3327				4.8		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.0668 1.1855	1.4058 1.1086	1.0916	1.0163	1.1239	AveID		1.1426				11.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	1.0412 1.0598	0.9957 1.0389	1.0105	1.0188	1.0382	AveID		1.0290				2.1		35.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate	1.8406 1.9724	1.7118 1.8141	1.9877	1.8276	1.9356	AveID		1.8700				5.3		50.0			
Perfluorooctane Sulfonamide (FOSA)	0.9593 0.9958	0.9707 0.9722	1.0050	0.9840	1.0271	AveID		0.9877				2.4		35.0			
Perfluorononanesulfonic acid (PFNS)	0.8034 0.8395	0.8351 0.7725	0.7909	0.7579	0.8131	AveID		0.8018				3.8		50.0			
8:2FTS	1.5521 1.3396	1.3434 1.3264	1.2292	1.3193	1.3317	AveID		1.3488				7.3		35.0			
Perfluorodecanoic acid (PFDA)	0.8917 1.0092	0.9828 1.0289	1.0404	0.9695	1.0022	AveID		0.9893				5.0		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.9703 1.1179	1.1967 1.0681	1.0177	0.9690	1.0392	AveID		1.0541				7.8		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.7021 0.7404	0.7150 0.6562	0.6887	0.6714	0.6827	AveID		0.6938				4.1		50.0			
Perfluoroundecanoic acid (PFUnA)	0.7928 0.8564	0.8601 0.8106	0.7503	0.7569	0.7893	AveID		0.8023				5.4		35.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.8147 0.9883	0.9741 0.9090	0.9478	0.8654	0.9206	AveID		0.9171				6.7		35.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	2.8436 3.0257	2.9980 2.5337	2.9592	2.8831	3.0740	AveID		2.9025				6.2		50.0			
Perfluorododecanoic acid (PFDoA)	1.2686 1.1003	1.0370 1.0802	0.9877	1.0013	1.0904	AveID		1.0808				8.7		35.0			
Perfluorotridecanoic Acid (PFTriA)	1.1081 1.2301	1.0821 1.2394	1.1038	1.1196	1.2088	AveID		1.1560				5.8		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2350 0.2635	0.2284 0.2529	0.2585	0.2561	0.2538	AveID		0.2497				5.2		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7643 0.9483	1.3416 0.9871	1.0187	0.9316	0.9677	L2ID	0.0203	0.9468							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.9253 1.0321	0.9519 0.9634	1.0684	0.9831	1.0254	AveID		0.9928				5.1		50.0			
13C4 PFBA	1.3443 1.4161	1.3814 1.4288	1.3330	1.4005	1.3694	Ave		1.3819				2.6		50.0			
13C5 PFPeA	0.8934 0.8816	0.8827 0.9186	0.8869	0.9245	0.9080	Ave		0.8994				2.0		50.0			
13C3-PFBS	0.0196 0.0210	0.0203 0.0210	0.0208	0.0215	0.0201	Ave		0.0206				3.1		50.0			
M2-4:2FTS	0.1565 0.1581	0.1593 0.1522	0.1552	0.1572	0.1627	Ave		0.1573				2.1		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFHxA	0.9740 1.0498	0.9825 0.9580	0.9718	0.9949	1.0104	Ave		0.9916				3.1		50.0			
13C3 HFPO-DA	0.0503 0.0487	0.0485 0.0516	0.0434	0.0506	0.0526	Ave		0.0494				6.1		50.0			
13C4-PFHpA	0.9616 1.0017	0.9462 0.9550	0.9331	0.9376	0.9381	Ave		0.9533				2.5		50.0			
18O2 PFHxS	1.2098 1.2100	1.1723 1.1489	1.1820	1.2367	1.1603	Ave		1.1886				2.6		50.0			
M2-6:2FTS	0.2228 0.2146	0.2271 0.2099	0.2360	0.2204	0.2114	Ave		0.2203				4.2		50.0			
13C4 PFOA	0.9390 0.9042	0.9446 0.9340	0.9398	0.9524	0.9466	Ave		0.9372				1.7		50.0			
13C4 PFOS	0.8082 0.8127	0.8347 0.8617	0.7901	0.8588	0.8139	Ave		0.8257				3.3		50.0			
13C5 PFNA	0.7800 0.7950	0.8035 0.7975	0.7751	0.7957	0.8039	Ave		0.7930				1.4		50.0			
13C8 FOSA	1.1429 1.1665	1.1806 1.1851	1.1447	1.1790	1.1660	Ave		1.1664				1.5		50.0			
M2-8:2FTS	0.2568 0.2599	0.2742 0.2425	0.2627	0.2471	0.2500	Ave		0.2562				4.2		50.0			
13C2 PFDA	0.6810 0.6901	0.6652 0.6633	0.6388	0.6714	0.6787	Ave		0.6698				2.5		50.0			
d3-NMeFOSAA	0.3500 0.3525	0.3448 0.3896	0.3473	0.3638	0.3600	Ave		0.3583				4.3		50.0			
d5-NEtFOSAA	0.3723 0.3641	0.3815 0.3697	0.3668	0.3972	0.3805	Ave		0.3760				3.0		50.0			
13C2 PFUnA	0.5415 0.5224	0.5653 0.5618	0.5325	0.5567	0.5471	Ave		0.5468				2.9		50.0			
13C2 PFDoA	0.6018 0.5961	0.5995 0.6273	0.6006	0.6258	0.6097	Ave		0.6087				2.1		50.0			
13C2-PFTeDA	0.7165 0.7795	0.7698 0.8064	0.7572	0.7919	0.7914	Ave		0.7733				3.8		50.0			
13C2-PFHxDA	1.1423 1.2360	1.1704 1.2118	1.1297	1.2003	1.2668	Ave		1.1939				4.2		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-215537/2	2018.03.29A_ICALB_002.d
Level 2	IC 320-215537/3	2018.03.29A_ICALB_003.d
Level 3	IC 320-215537/4	2018.03.29A_ICALB_004.d
Level 4	IC 320-215537/5	2018.03.29A_ICALB_005.d
Level 5	IC 320-215537/6	2018.03.29A_ICALB_006.d
Level 6	IC 320-215537/7	2018.03.29A_ICALB_007.d
Level 7	IC 320-215537/8	2018.03.29A_ICALB_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	54978 12187200	114587 21580046	553955	2290620	5777307	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	50084 9830479	99196 17152403	480043	1931372	4732902	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	61417 13230767	131921 22689760	655502	2631669	6580985	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	14980 3033560	34332 5058050	143786	566727	1487518	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	45998 9564151	91036 16338328	449634	1763768	4676733	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	62066 13067667	118105 21196987	604278	2554091	6467251	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	7478 1481837	15350 2889144	79234	282149	729503	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	57274 9347366	86879 15839255	440174	1808460	4677284	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	66874 10543701	116520 18176626	512387	1978319	5288566	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
Adona		AveID	131706 25789461	265166 40218776	1396340	5648777	14240170	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
6:2FTS		AveID	22713 3287357	39956 5791627	174781	617577	1539946	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	55886 9813194	114806 16926232	477643	1868120	4758293	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	47511 9738630	90656 16813478	477719	1907896	4696005	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	36705 8034226	100111 14234234	363900	1463610	3738022	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	37255 7571474	73551 13303148	356101	1464985	3675243	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate		AveID	63605 13425151	122429 23393631	665453	2643424	6465289	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctane Sulfonamide (FOSA)		AveID	50297 10438342	105346 18498081	523091	2096455	5273555	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	28595 5885424	61518 10261449	272737	1129121	2797665	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
8:2FTS		AveID	17515 2997433	32444 4947631	140627	564315	1404701	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	27858 6258242	60106 10958309	302194	1176291	2995028	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	15580 3541055	37929 6681300	160694	637079	1647643	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	25096 5212375	52893 8752766	238488	1004519	2358750	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	19693 4020256	44699 7311434	181675	761440	1901518	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	13913 3233549	34166 5395434	158064	621160	1542349	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate		AveID	99320 20815228	216712 33023539	1001338	4214763	10377874	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	35020 5893687	57155 10879941	269716	1132386	2927481	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	30591 6588893	59640 12483957	301420	1266253	3245349	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	7726 1845416	16166 3274341	88991	366508	884583	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	92453 10532699	144357 19206042	523255	2020619	5398203	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	48490 11463437	102429 18744405	548804	2132452	5719746	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	6166712 6363039	6349810 5735604	6060888	6326878	6030203	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	4098537 3961451	4057226 3687266	4032497	4176477	3998575	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	83555 87650	86826 78326	87970	90179	82172	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	670675 663538	683814 570582	659047	663350	669149	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4468019 4716939	4516262 3845737	4418534	4494490	4449369	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PFOA	Ave	230803 218882	222854 207020	197281	228536	231658	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1 Analy Batch No.: 215537

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2018 17:27 Calibration End Date: 03/29/2018 18:14 Calibration ID: 38353

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4-PFHpA	13PF OA	Ave	4411051 4500718	4349189 3833624	4242345	4235886	4131012	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5250229 5143358	5097412 4362929	5084038	5285294	4833301	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PF OA	Ave	971099 916140	991613 800357	1019321	945777	884202	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	4307414 4062703	4341966 3749304	4272950	4302583	4168394	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3544609 3490802	3668029 3306882	3434108	3709075	3426212	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	3578216 3572058	3693528 3201114	3523980	3594883	3540108	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	5242954 5241388	5426551 4756992	5204720	5326321	5134426	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2FTS	13PF OA	Ave	1128441 1118796	1207568 932507	1144081	1069323	1054813	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3124013 3100672	3057872 2662530	2904523	3033191	2988519	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1605692 1583848	1584763 1563764	1579046	1643657	1585449	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	1707772 1635848	1753746 1483924	1667774	1794427	1675412	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	2484047 2347134	2598573 2255059	2421277	2514905	2409033	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	2760551 2678243	2755722 2518124	2730672	2827344	2684707	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	3287077 3502295	3538364 3237082	3442831	3577558	3484985	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	5240268 5553497	5380000 4864202	5136479	5422645	5578235	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Mar-2018 17:27:24 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:47:22 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 11:46:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.436	-0.006	1.000	6166712	2.43		97.3	50338	
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.437	-0.007	1.000	54978	0.0241		96.5	19.5	
D 3 13C5-PFPeA										
267.90 > 223.00	1.702	1.702	0.0	0.556	4098537	2.48		99.3	99404	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.702	1.706	-0.004	1.000	50084	0.0255		102	18.1	
D 47 13C3-PFBS										
301.90 > 83.00	1.738	1.738	0.0	1.000	83555	2.21		95.1	487	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.738	1.742	-0.004	1.000	61417	0.0217		98.0	42.6	
298.90 > 99.00	1.738	1.742	-0.004	1.000	27306		2.25(1.25-3.74)	98.0	43.5	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.948	1.955	-0.007	1.000	14980	0.0242		103	890	
D 60 M2-4:2FTS										
329.00 > 81.00	1.948	1.955	-0.007	1.000	670675	2.32		99.5	10023	
D 7 13C2 PFHxA										
315.00 > 270.00	1.991	1.991	0.001	1.000	4468019	2.46		98.2	159424	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.991	1.992	-0.001	1.000	45998	0.0252		101	64.0	
313.00 > 119.00	1.991	1.992	-0.001	1.000	6508		7.07(5.03-15.10)	101	86.2	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.014	2.013	0.001	1.000	62066	0.0243		103	2728	
349.00 > 99.00	2.014	2.013	0.001	1.000	19424		3.20(1.36-4.07)	103	499	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.092	0.001	1.000	230803	2.55		102	3834	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.092	0.001	1.000	7478	0.0238		95.3	65.5	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.326	-0.007	1.000	4411051	2.52		101	104151	
10 Perfluoroheptanoic acid										R
363.00 > 319.00	2.332	2.327	0.005	1.006	57274	0.0299		120	43.4	R
363.00 > 169.00	2.319	2.327	-0.008	1.000	14474		3.96(1.13-3.40)	120	39.5	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.339	-0.007	0.994	66874	0.0270		119	321	
399.00 > 99.00	2.345	2.339	0.006	1.000	24503		2.73(1.50-4.49)	119	141	
D 11 18O2 PFHxS										
403.00 > 84.00	2.345	2.340	0.005	1.000	5250229	2.41		102	72933	
65 Adona										
377.00 > 251.00	2.372	2.372	0.0	1.000	131706	0.0249		99.7	3848	
377.00 > 85.00	2.372	2.372	0.0	1.000	78395		1.68(0.84-2.53)	99.7	1353	
D 12 M2-6:2FTS										
429.00 > 81.00	2.667	2.664	0.003	1.000	971099	2.40		101	36585	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.667	2.664	0.003	1.000	22713	0.0297		126	103	
D 14 13C4 PFOA										
417.00 > 372.00	2.690	2.688	0.002	1.000	4307414	2.50		100	62635	
* 62 13C2-PFOA										
415.00 > 370.00	2.690	2.689	0.001		4587408	2.50			82099	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.690	2.690	0.0	1.000	55886	0.0274		109	15.6	
413.00 > 169.00	2.690	2.690	0.0	1.000	29511		1.89(0.84-2.52)	109	137	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.697	2.695	0.002	1.000	47511	0.0240		101	2228	
449.00 > 99.00	2.690	2.695	-0.005	0.997	13527		3.51(1.94-5.82)	101	344	
D 18 13C4 PFOS										
503.00 > 80.00	3.063	3.060	0.003	1.000	3544609	2.34		97.9	57925	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.063	3.060	0.003	1.000	36705	0.0217		93.4	95.8	
499.00 > 99.00	3.056	3.060	-0.004	0.998	9133		4.02(2.31-6.93)	93.4	90.5	
D 19 13C5 PFNA										
468.00 > 423.00	3.063	3.061	0.002	1.000	3578216	2.46		98.4	65837	
20 Perfluorononanoic acid										
463.00 > 419.00	3.063	3.064	-0.001	1.000	37255	0.0253		101	33.6	
463.00 > 169.00	3.063	3.064	-0.001	1.000	8504		4.38(1.90-5.69)	101	156	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.270	3.272	-0.002	1.000	63605	0.0229		98.4	1085	
D 21 13C8 FOSA										
506.00 > 78.00	3.393	3.388	0.005	1.000	5242954	2.45		98.0	50202	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.393	3.389	0.004	1.000	50297	0.0243		97.1	2125	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.412	3.409	0.003	1.000	28595	0.0240		100	1160	
549.00 > 99.00	3.412	3.409	0.003	1.000	11257		2.54(1.33-3.97)	100	233	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.412	3.413	-0.001	1.000	1128441	2.40		100	46885	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.412	3.415	-0.003	1.000	17515	0.0276		115	142	
D 23 13C2 PFDA										
515.00 > 470.00	3.421	3.423	-0.002	1.000	3124013	2.54		102	34604	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.430	3.427	0.003	1.003	27858	0.0225		90.1	153	
513.00 > 169.00	3.421	3.427	-0.006	1.000	5765		4.83(2.36-7.09)	90.1	172	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.579	3.578	0.001	1.000	1605692	2.44		97.7	24728	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.579	3.581	-0.002	1.000	15580	0.0230		92.0	148	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.743	3.738	0.005	1.000	25096	0.0244		101	720	
599.00 > 99.00	3.733	3.738	-0.005	0.997	6754		3.72(1.39-4.16)	101	273	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.753	3.749	0.004	1.000	1707772	2.48		99.0	4645	
D 30 13C2 PFUnA										
565.00 > 520.00	3.753	3.753	0.0	1.000	2484047	2.48		99.0	53924	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.764	3.755	0.009	1.003	13913	0.0222		88.8	325	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.753	3.755	-0.002	1.000	19693	0.0247		98.8	88.1	
563.00 > 169.00	3.753	3.755	-0.002	1.000	6256		3.15(2.12-6.36)	98.8	230	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.910	3.910	0.0	1.000	99320	0.0231		98.0	3306	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.051	4.052	-0.001	1.000	35020	0.0293		117	27.1	
613.00 > 169.00	4.051	4.052	-0.001	1.000	6979		5.02(2.13-6.40)	117	123	
D 36 13C2 PFDoA										
615.00 > 570.00	4.051	4.052	-0.001	1.000	2760551	2.47		98.9	25063	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.319	4.316	0.003	1.000	30591	0.0240		95.9	11.5	
663.00 > 169.00	4.308	4.316	-0.008	0.997	9882		3.10(1.25-3.76)	95.9	176	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.562	4.558	0.004	1.000	3287077	2.32		92.7	19784	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.562	4.558	0.004	1.000	7726	0.0235		94.1	147	
713.00 > 219.00	4.552	4.558	-0.006	0.998	7671		1.01(0.71-2.13)	94.1	202	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.974	4.977	-0.003	1.000	92453	0.0252		101	21.2	
813.00 > 169.00	4.974	4.977	-0.003	1.000	16102		5.74(2.86-8.58)	101	164	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.974	4.977	-0.003	1.000	5240268	2.39		95.7	13910	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.342	5.344	-0.002	1.000	48490	0.0233		93.2	7.8	
913.00 > 169.00	5.342	5.344	-0.002	1.000	5832		8.31(3.83-11.48)	93.2	96.3	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

LCPFC_LL1_00005 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:47:25 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_002.d

Injection Date: 29-Mar-2018 17:27:24 Instrument ID: A8_N

Lims ID: IC L1 Full

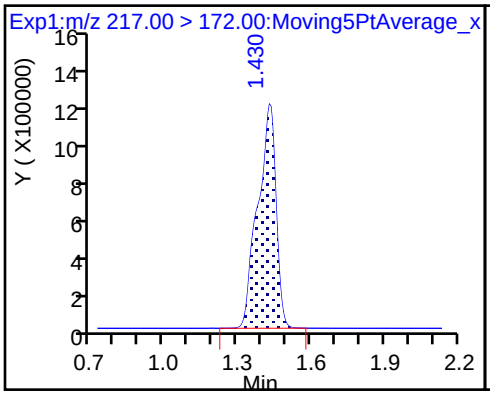
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

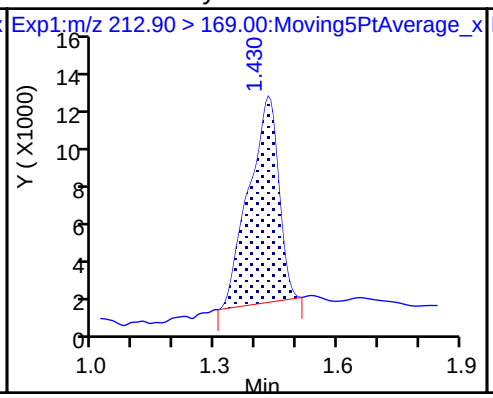
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

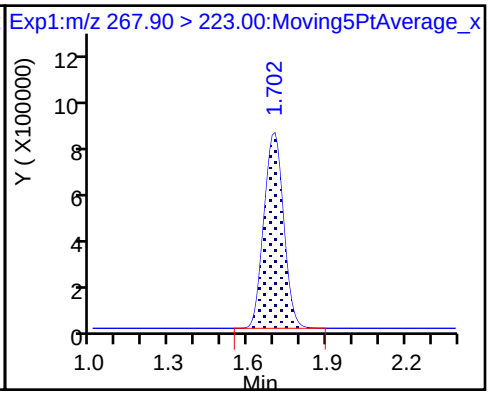
D 1 13C4 PFBA



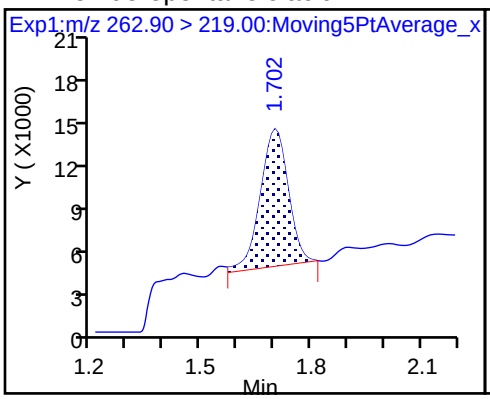
2 Perfluorobutyric acid



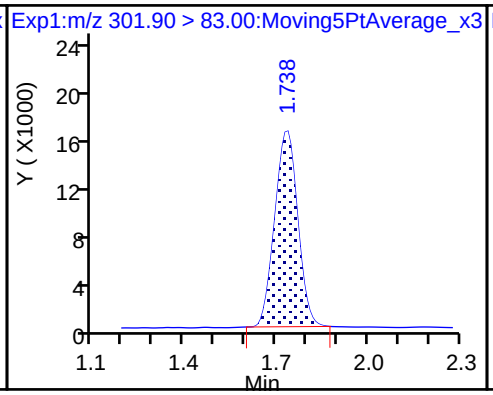
D 3 13C5-PFPeA



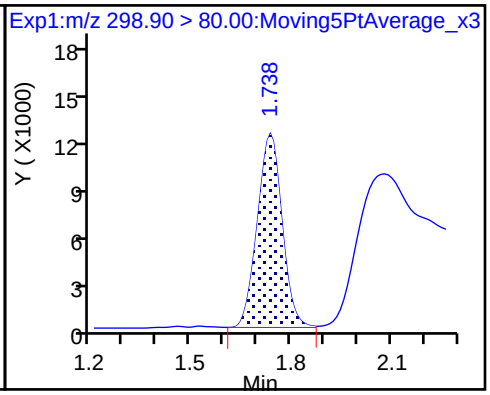
4 Perfluoropentanoic acid



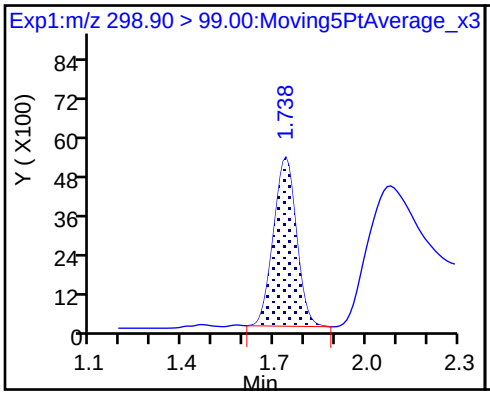
D 47 13C3-PFBS



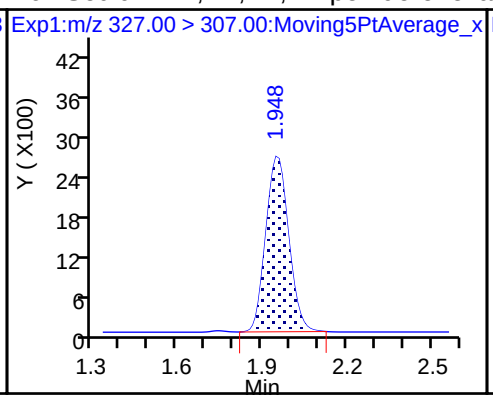
5 Perfluorobutanesulfonic acid



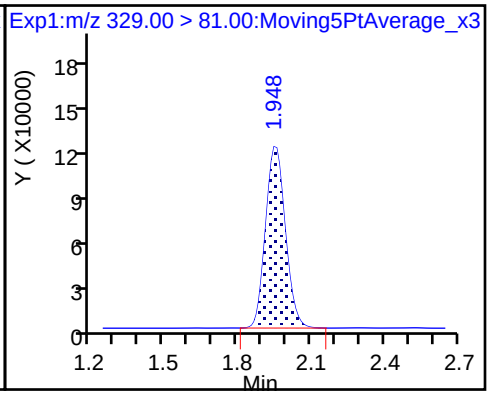
5 Perfluorobutanesulfonic acid



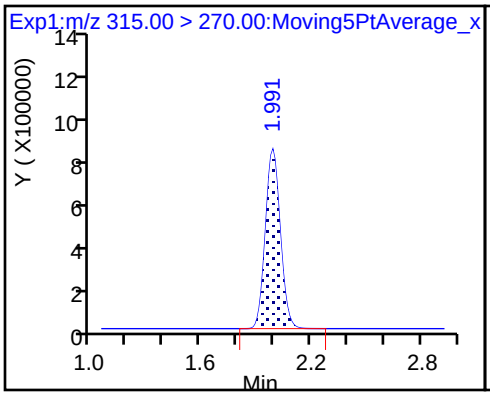
61 Sodium 1H,1H,2H,2H-perfluorohexane



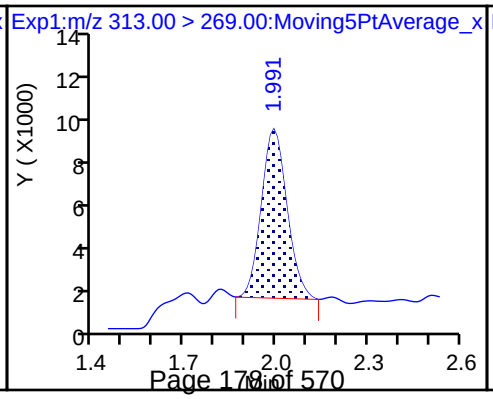
D 60 M2-4:2FTS



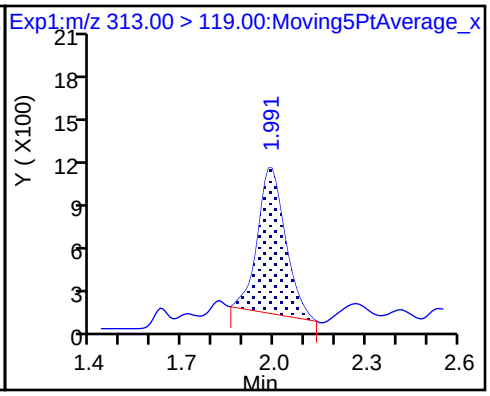
D 7 13C2 PFHxA



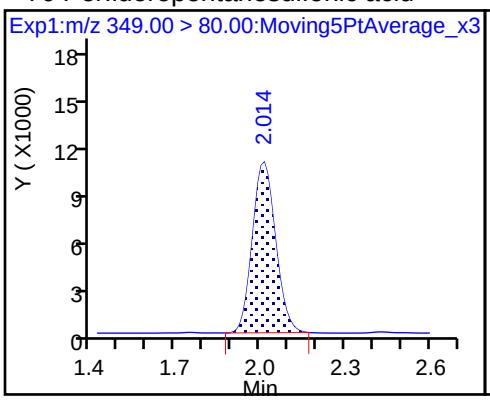
6 Perfluorohexanoic acid



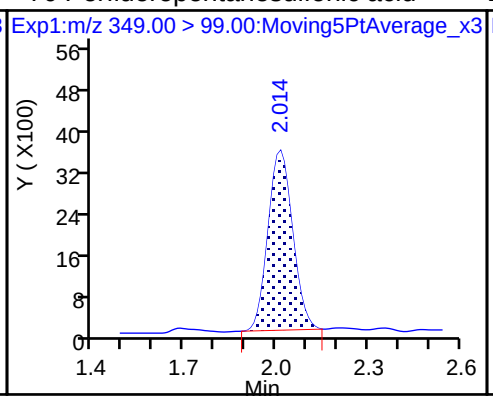
6 Perfluorohexanoic acid



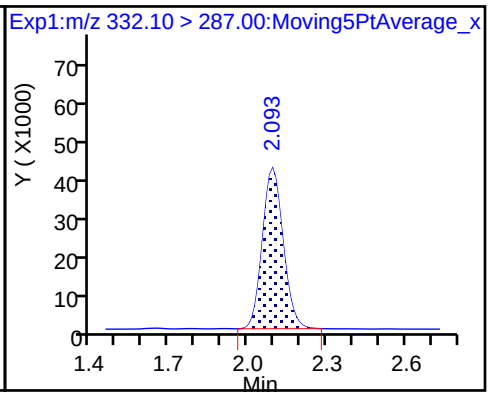
70 Perfluoropentanesulfonic acid



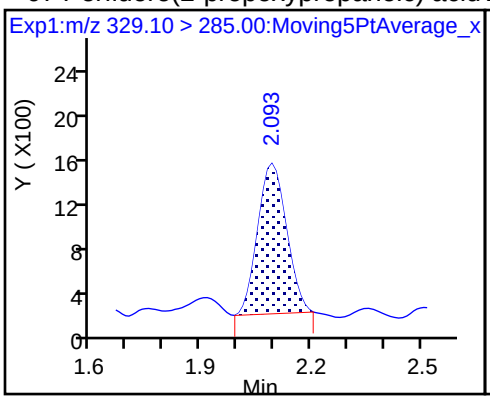
70 Perfluoropentanesulfonic acid



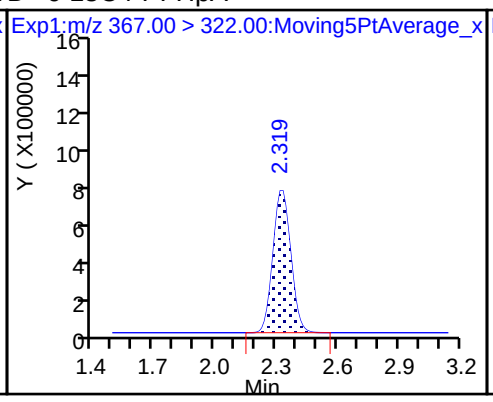
D 64 13C3 HFPO-DA



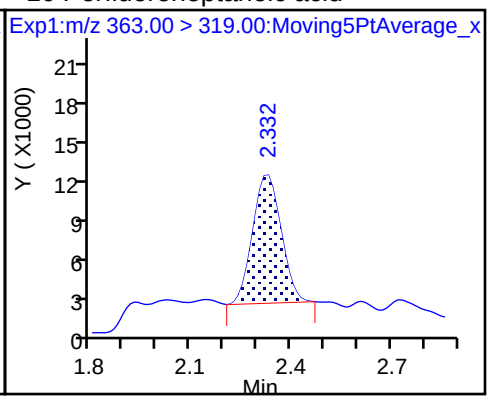
67 Perfluoro(2-propoxypropanoic) acid



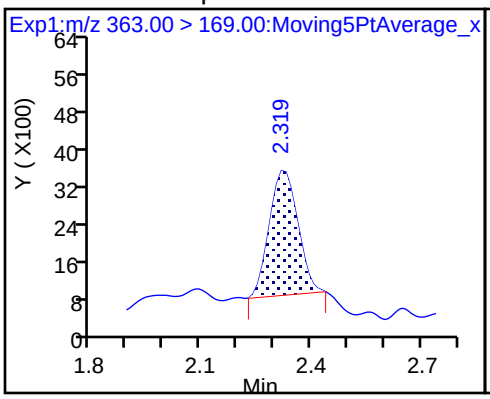
D 9 13C4-PFHpA



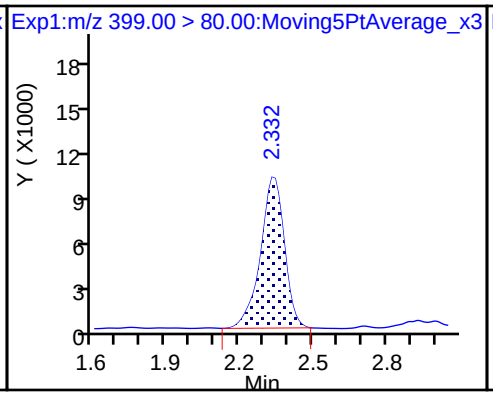
10 Perfluoroheptanoic acid



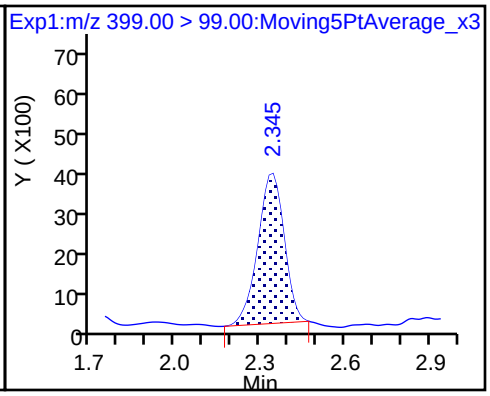
10 Perfluoroheptanoic acid



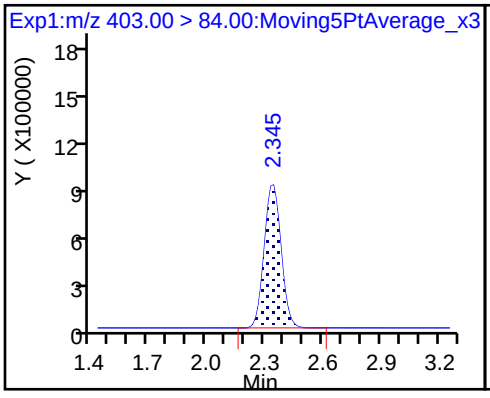
8 Perfluorohexanesulfonic acid



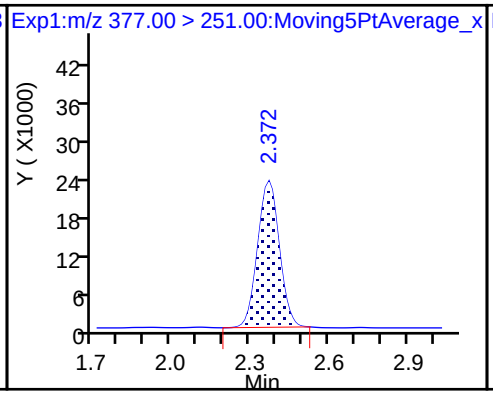
8 Perfluorohexanesulfonic acid



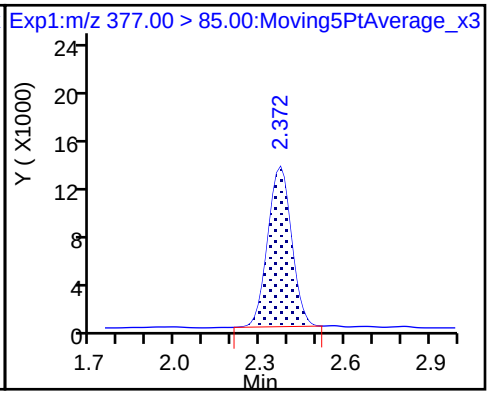
D 11 18O2 PFHxS



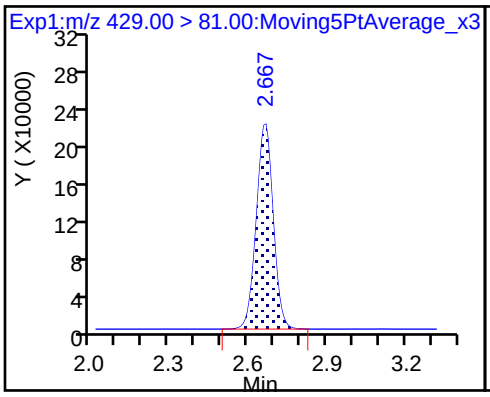
65 Adona



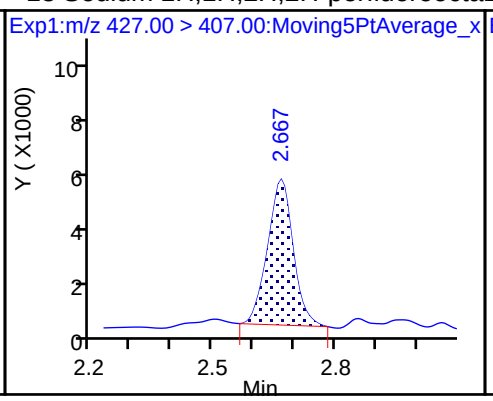
65 Adona



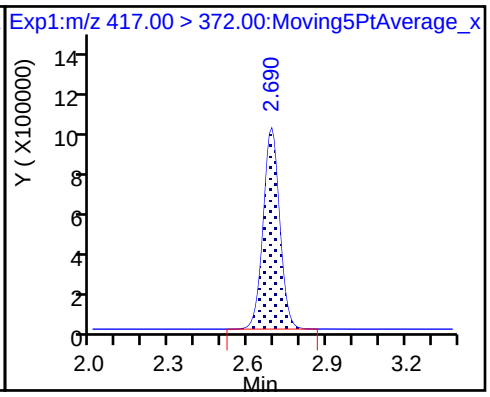
D 12 M2-6:2FTS



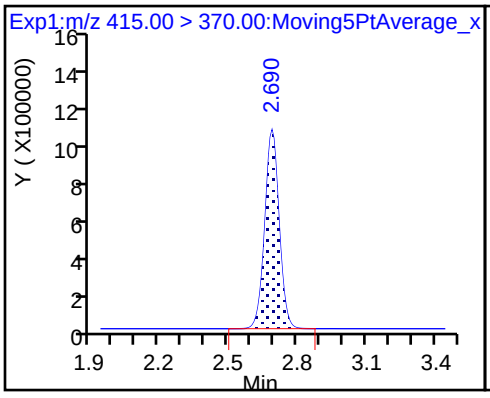
13 Sodium 1H,1H,2H,2H-perfluorooctane



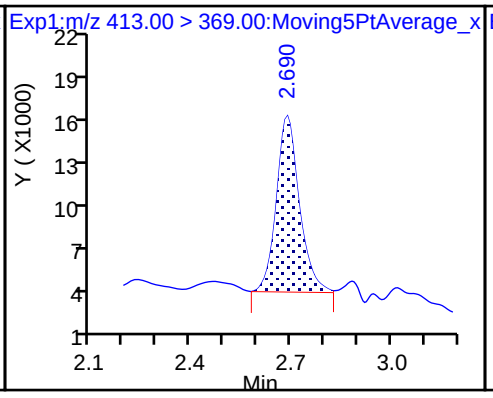
D 14 13C4 PFOA



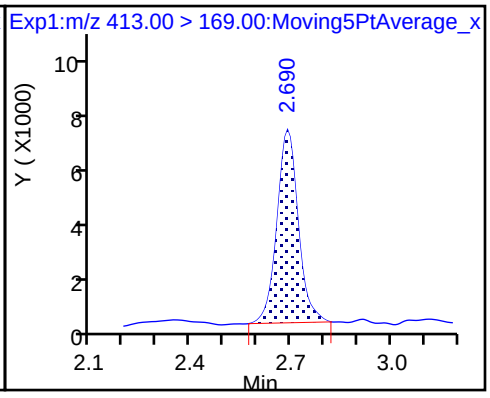
* 62 13C2-PFOA



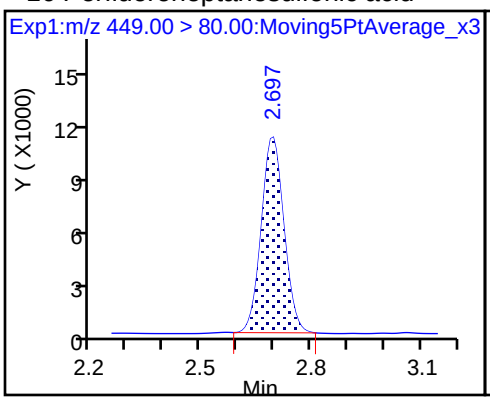
15 Perfluorooctanoic acid



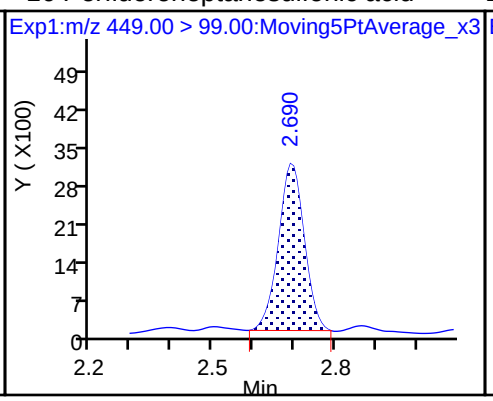
15 Perfluorooctanoic acid



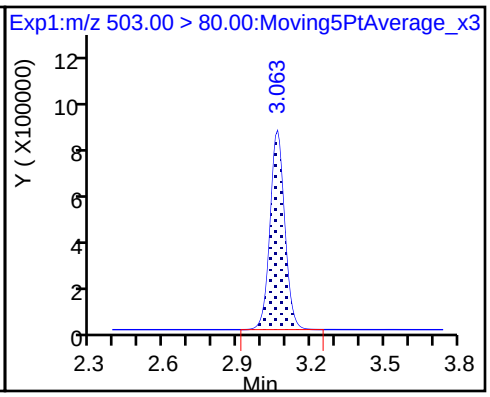
16 Perfluoroheptanesulfonic acid



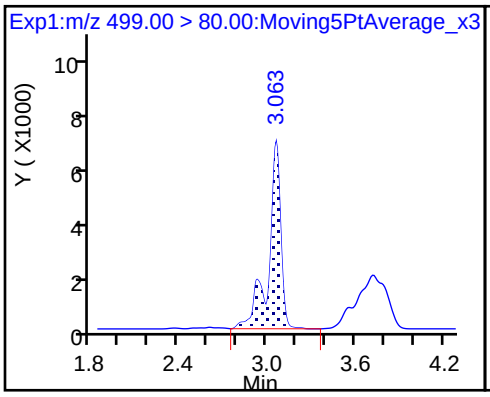
16 Perfluoroheptanesulfonic acid



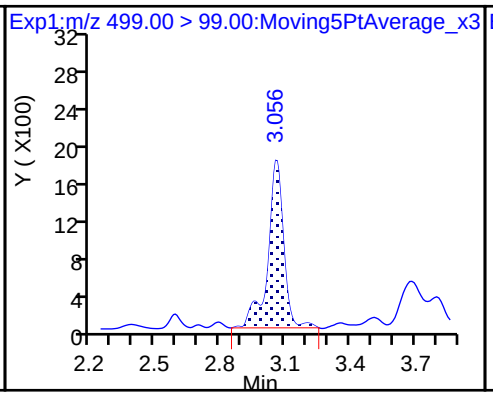
D 18 13C4 PFOS



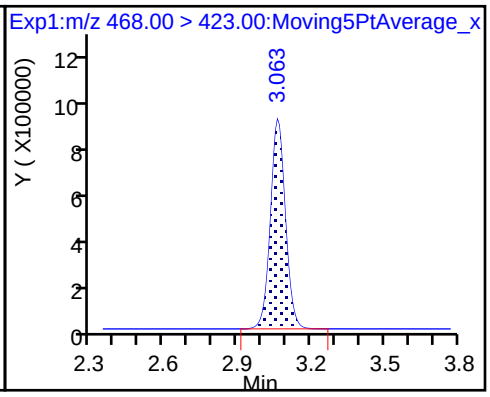
17 Perfluorooctane sulfonic acid



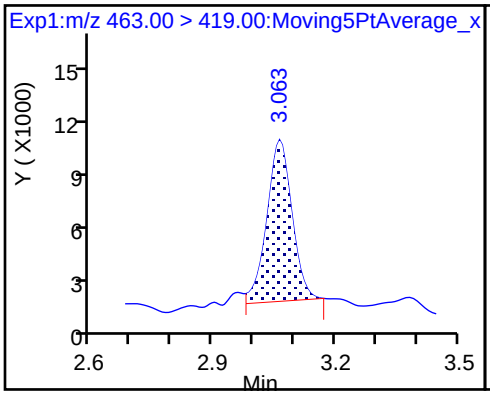
17 Perfluorooctane sulfonic acid



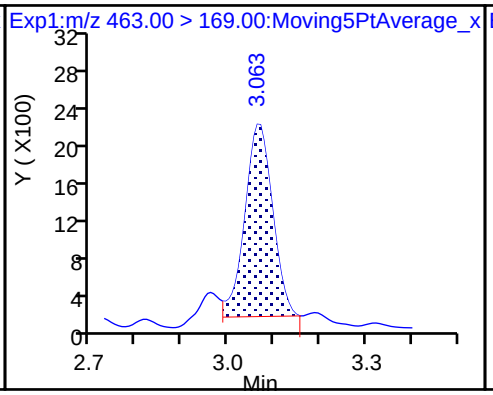
D 19 13C5 PFNA



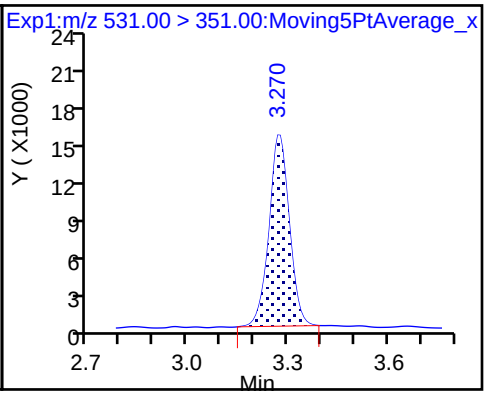
20 Perfluorononanoic acid



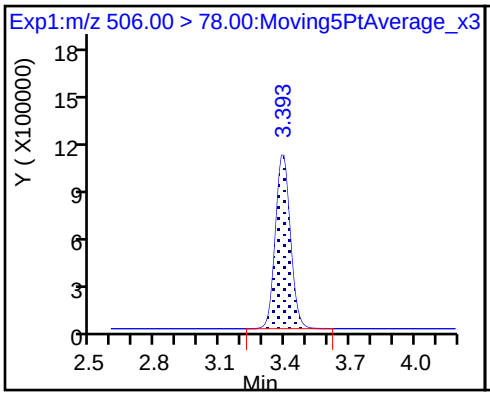
20 Perfluorononanoic acid



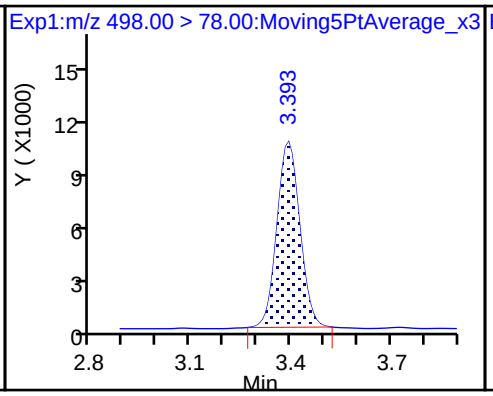
69 9-Chlorohexadecafluoro-3-oxanonane



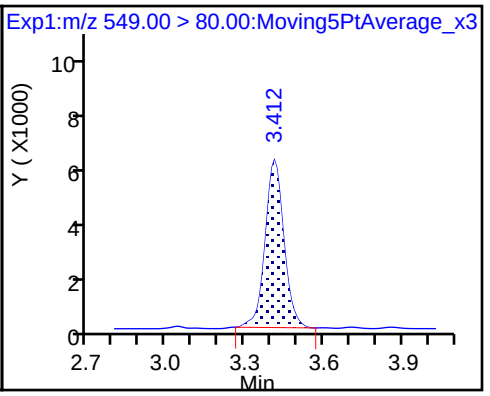
D 21 13C8 FOSA



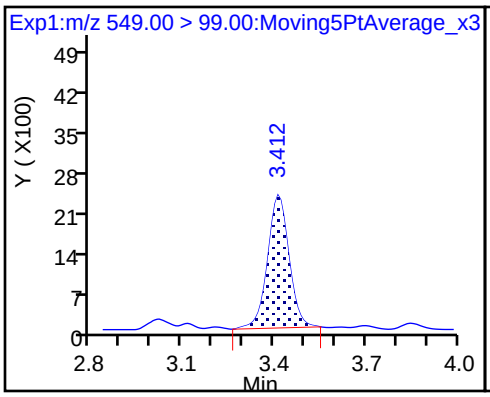
22 Perfluorooctane Sulfonamide



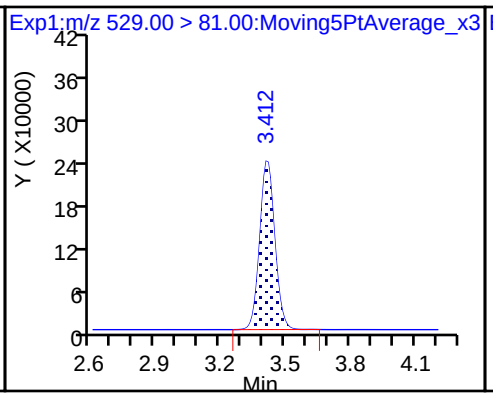
68 Perfluorononanesulfonic acid



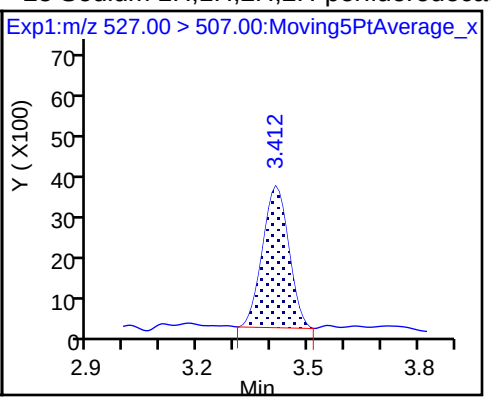
68 Perfluorononanesulfonic acid



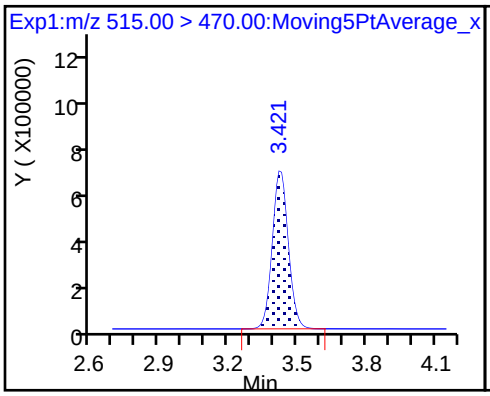
D 26 M2-8:2FTS



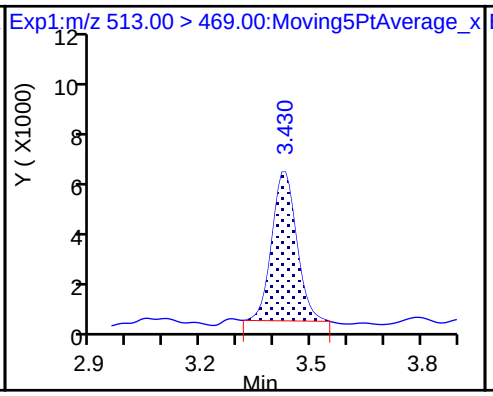
25 Sodium 1H,1H,2H,2H-perfluorodecane



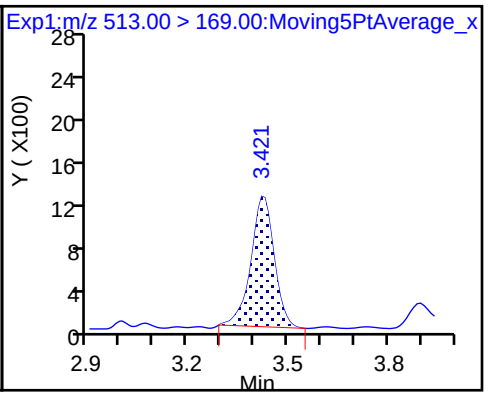
D 23 13C2 PFDA



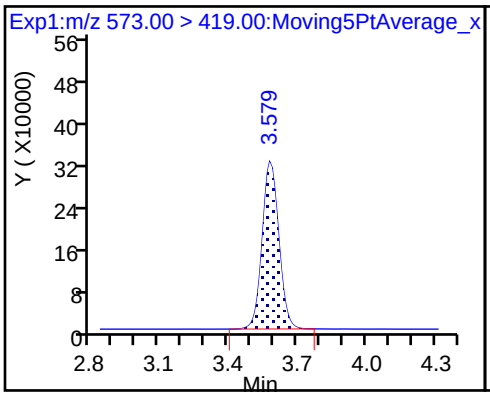
24 Perfluorodecanoic acid



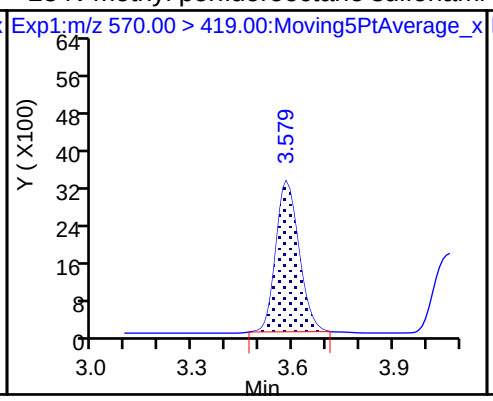
24 Perfluorodecanoic acid



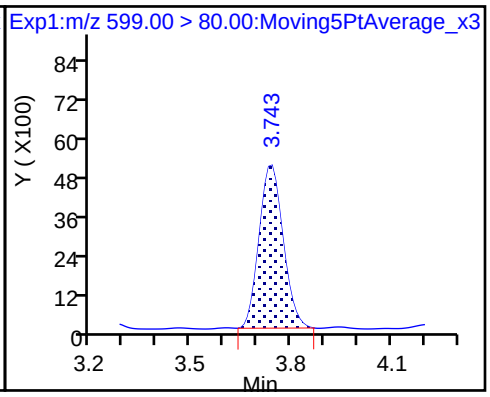
D 27 d3-NMeFOSAA



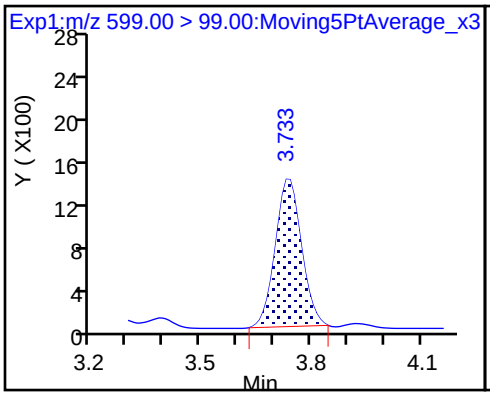
28 N-methyl perfluorooctane sulfonami



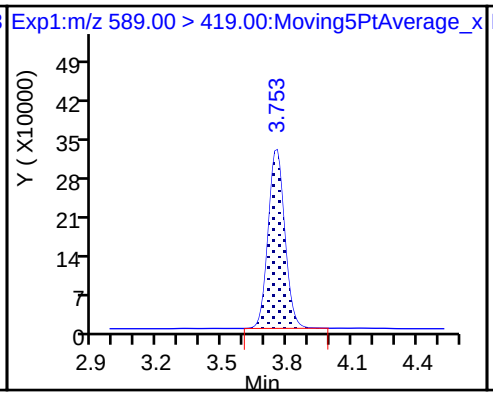
29 Perfluorodecane Sulfonic acid



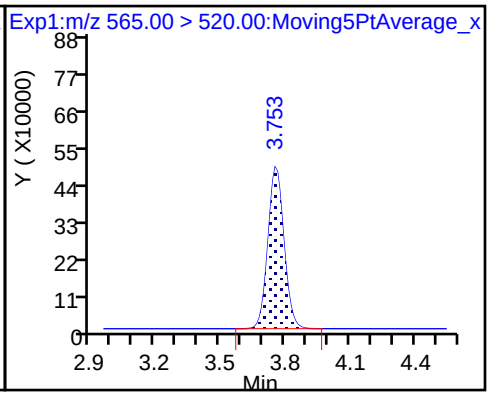
29 Perfluorodecane Sulfonic acid



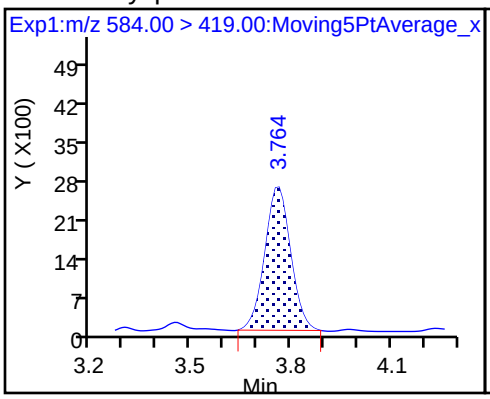
D 32 d5-NEtFOSAA



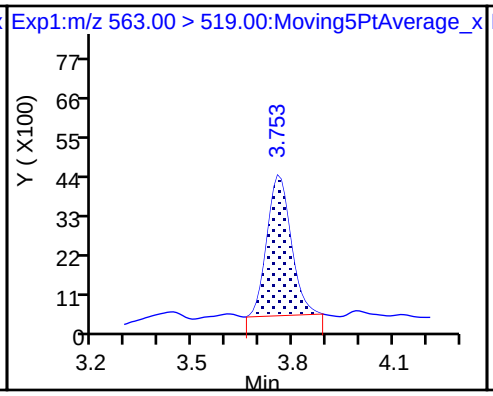
D 30 13C2 PFUnA



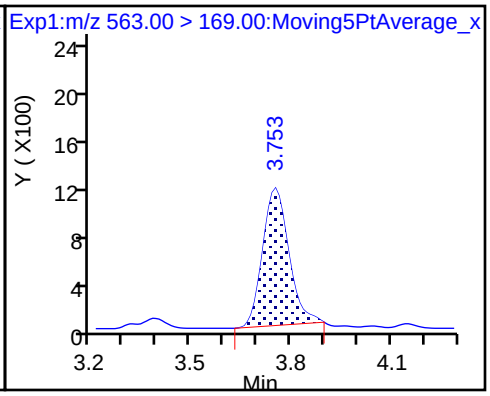
33 N-ethyl perfluorooctane sulfonamid



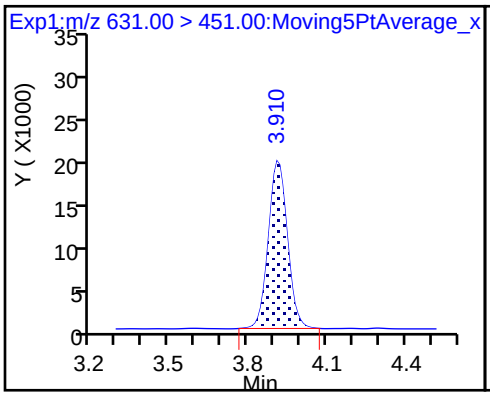
31 Perfluoroundecanoic acid



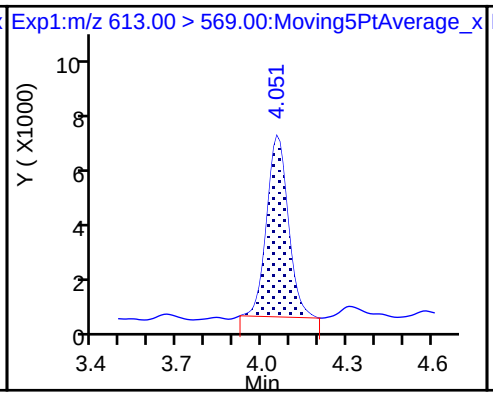
31 Perfluoroundecanoic acid



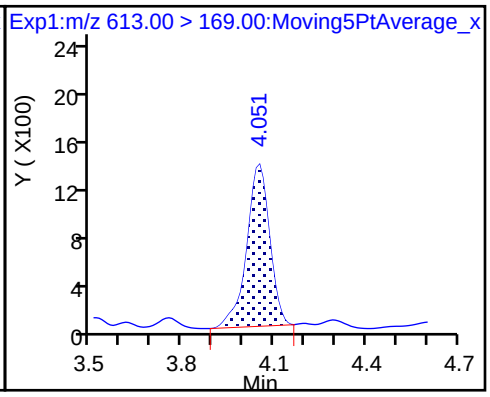
66 11-Chloroeicosafluoro-3-oxaundecan



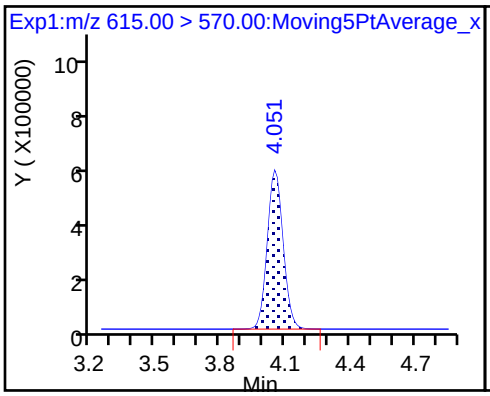
37 Perfluorododecanoic acid



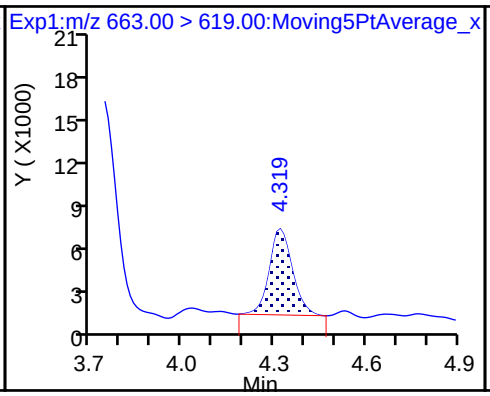
37 Perfluorododecanoic acid



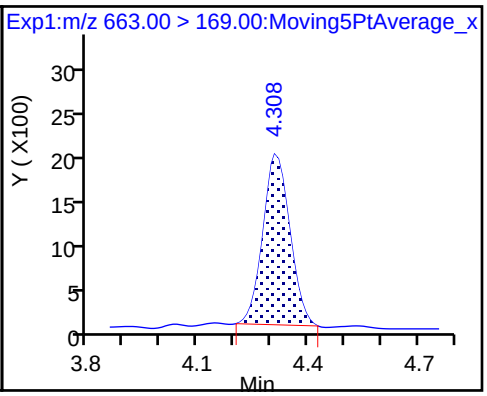
D 36 13C2 PFDoA



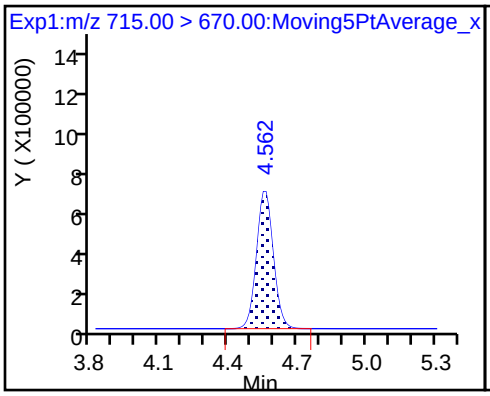
41 Perfluorotridecanoic acid



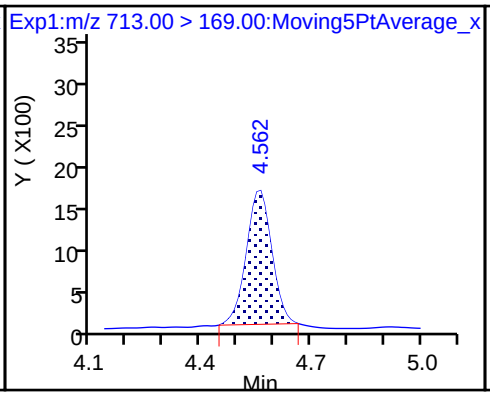
41 Perfluorotridecanoic acid



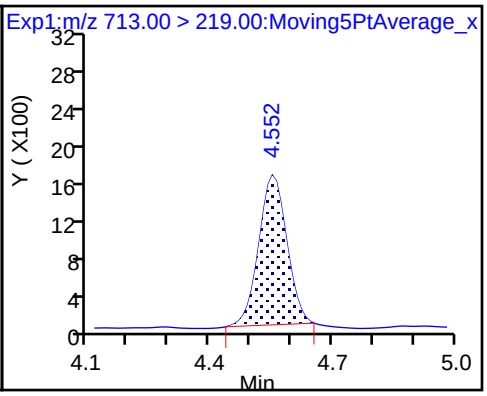
D 43 13C2-PFTeDA



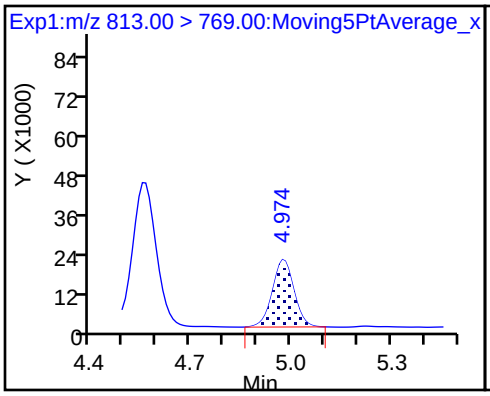
42 Perfluorotetradecanoic acid



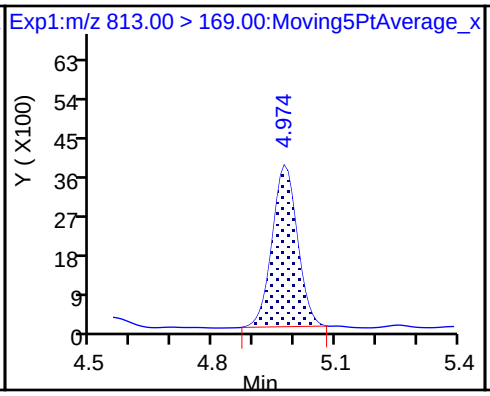
42 Perfluorotetradecanoic acid



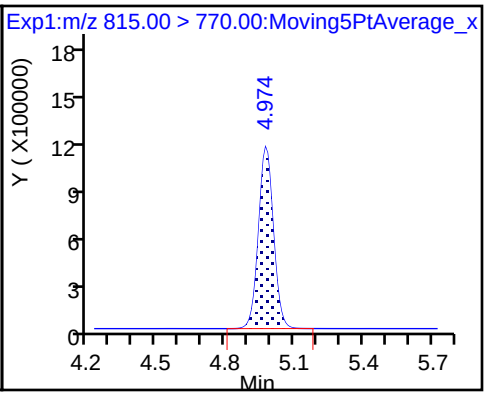
45 Perfluorohexadecanoic acid



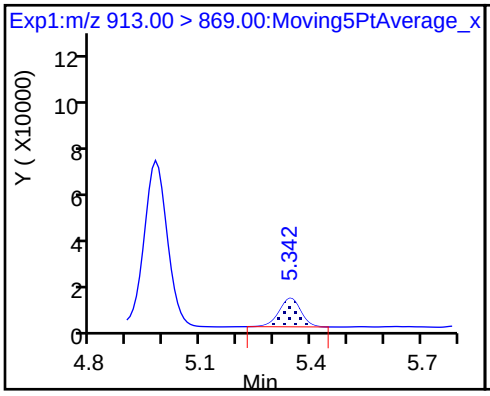
45 Perfluorohexadecanoic acid



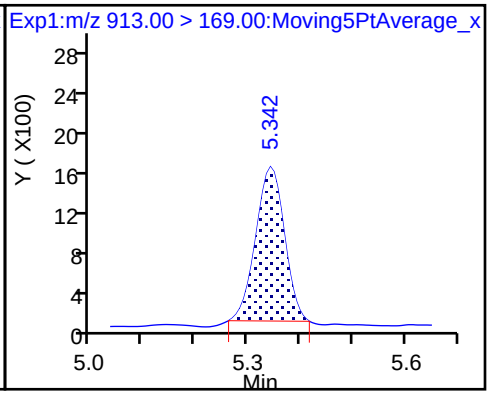
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Mar-2018 17:35:12 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:47:33 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 08:31:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.441	1.436	0.005	1.000	6349810	2.50		100.0	62892	
2 Perfluorobutyric acid										
212.90 > 169.00	1.441	1.437	0.004	1.000	114587	0.0488		97.6	42.3	
D 3 13C5-PFPeA										
267.90 > 223.00	1.702	1.702	0.0	0.556	4057226	2.45		98.1	79100	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.711	1.706	0.005	1.005	99196	0.0511		102	38.7	
D 47 13C3-PFBS										
301.90 > 83.00	1.738	1.738	0.0	1.000	86826	2.29		98.6	548	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.747	1.742	0.005	1.005	131921	0.0448		101	91.8	
298.90 > 99.00	1.747	1.742	0.005	1.005	61156		2.16(1.25-3.74)	101	95.8	
D 60 M2-4:2FTS										
329.00 > 81.00	1.959	1.955	0.004	1.000	683814	2.36		101	9417	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.959	1.955	0.004	1.000	34332	0.0533		114	1560	
D 7 13C2 PFHxA										
315.00 > 270.00	1.992	1.991	0.002	1.000	4516262	2.48		99.1	114603	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.992	1.992	0.0	1.000	91036	0.0492		98.5	123	
313.00 > 119.00	2.004	1.992	0.012	1.006	9683		9.40(5.03-15.10)	98.5	120	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.015	2.013	0.002	1.000	118105	0.0444		94.7	3501	
349.00 > 99.00	2.015	2.013	0.002	1.000	50910		2.32(1.36-4.07)	94.7	1502	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.094	2.092	0.002	1.000	15350	0.0506		101	127	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.094	2.092	0.002	1.000	222854	2.45		98.2	3059	
D 9 13C4-PFHpA										
367.00 > 322.00	2.333	2.326	0.007	1.000	4349189	2.48		99.3	90666	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.333	2.327	0.006	1.000	86879	0.0460		91.9	64.2	
363.00 > 169.00	2.333	2.327	0.006	1.000	32712		2.66(1.13-3.40)	91.9	83.5	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.346	2.339	0.007	1.000	116520	0.0484		106	646	
399.00 > 99.00	2.346	2.339	0.007	1.000	36295		3.21(1.50-4.49)	106	207	
D 11 18O2 PFHxS										
403.00 > 84.00	2.346	2.340	0.006	1.000	5097412	2.33		98.6	84888	
65 Adona										
377.00 > 251.00	2.373	2.372	0.001	1.000	265166	0.0485		97.0	6589	
377.00 > 85.00	2.373	2.372	0.001	1.000	160661		1.65(0.84-2.53)	97.0	2799	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.668	2.664	0.004	1.000	39956	0.0512		108	205	
D 12 M2-6:2FTS										
429.00 > 81.00	2.668	2.664	0.004	1.000	991613	2.45		103	32060	
D 14 13C4 PFOA										
417.00 > 372.00	2.690	2.688	0.002	1.000	4341966	2.52		101	71813	
* 62 13C2-PFOA										
415.00 > 370.00	2.690	2.689	0.001		4596582	2.50			88523	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.690	2.690	0.0	1.000	114806	0.0557		111	33.8	
413.00 > 169.00	2.690	2.690	0.0	1.000	55627		2.06(0.84-2.52)	111	255	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.698	2.695	0.003	1.000	90656	0.0443		93.1	4161	
449.00 > 99.00	2.698	2.695	0.003	1.000	24724		3.67(1.94-5.82)	93.1	644	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.063	3.060	0.003	1.000	100111	0.0571		123	243	
499.00 > 99.00	3.063	3.060	0.003	1.000	22757		4.40(2.31-6.93)	123	232	
D 18 13C4 PFOS										
503.00 > 80.00	3.063	3.060	0.003	1.000	3668029	2.42		101	46995	
D 19 13C5 PFNA										
468.00 > 423.00	3.063	3.061	0.002	1.000	3693528	2.53		101	88431	
20 Perfluorononanoic acid										
463.00 > 419.00	3.070	3.064	0.006	1.002	73551	0.0484		96.8	69.8	
463.00 > 169.00	3.063	3.064	-0.001	1.000	20050		3.67(1.90-5.69)	96.8	343	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.277	3.272	0.005	1.000	122429	0.0427		91.5	2323	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	5426551	2.53		101	71507	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.395	3.389	0.006	1.003	105346	0.0491		98.3	2796	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.413	3.409	0.004	1.000	61518	0.0500		104	2616	
549.00 > 99.00	3.413	3.409	0.004	1.000	20319		3.03(1.33-3.97)	104	373	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.413	0.0	1.000	1207568	2.56		107	35673	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.423	3.415	0.008	1.003	32444	0.0477		99.6	331	
D 23 13C2 PFDA										
515.00 > 470.00	3.423	3.423	0.0	1.000	3057872	2.48		99.3	49113	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.432	3.427	0.005	1.003	60106	0.0497		99.3	222	
513.00 > 169.00	3.423	3.427	-0.004	1.000	10996		5.47(2.36-7.09)	99.3	277	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.582	3.578	0.004	1.000	1584763	2.41		96.2	51662	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.582	3.581	0.001	1.000	37929	0.0568		114	356	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.737	3.738	-0.001	1.000	52893	0.0497		103	1503	
599.00 > 99.00	3.737	3.738	-0.001	1.000	15830		3.34(1.39-4.16)	103	320	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.749	-0.002	1.000	1753746	2.54		101	4660	
D 30 13C2 PFUnA										
565.00 > 520.00	3.758	3.753	0.005	1.000	2598573	2.58		103	73614	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.755	0.003	1.003	34166	0.0531		106	703	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.758	3.755	0.003	1.000	44699	0.0536		107	178	
563.00 > 169.00	3.758	3.755	0.003	1.000	11584		3.86(2.12-6.36)	107	588	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.914	3.910	0.004	1.000	216712	0.0486		103	8713	
D 36 13C2 PFDoA										
615.00 > 570.00	4.057	4.052	0.005	1.000	2755722	2.46		98.5	18105	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.057	4.052	0.005	1.000	57155	0.0480		96.0	43.3	
613.00 > 169.00	4.057	4.052	0.005	1.000	15975		3.58(2.13-6.40)	96.0	355	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.317	4.316	0.001	1.000	59640	0.0468		93.6	23.5	
663.00 > 169.00	4.317	4.316	0.001	1.000	20700		2.88(1.25-3.76)	93.6	402	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.561	4.558	0.003	1.000	16166	0.0457		91.5	253	
713.00 > 219.00	4.550	4.558	-0.008	0.998	13055		1.24(0.71-2.13)	91.5	266	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.561	4.558	0.003	1.000	3538364	2.49		99.6	20273	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.982	4.977	0.005	1.000	5380000	2.45		98.0	13437	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.982	4.977	0.005	1.000	144357	0.0494		98.9	34.6	
813.00 > 169.00	4.982	4.977	0.005	1.000	22803		6.33(2.86-8.58)	98.9	235	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.348	5.344	0.004	1.000	102429	0.0479		95.9	17.9	
913.00 > 169.00	5.348	5.344	0.004	1.000	11835		8.65(3.83-11.48)	95.9	167	

Reagents:

LCPFC_LL2_00004 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:47:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_003.d

Injection Date: 29-Mar-2018 17:35:12 Instrument ID: A8_N

Lims ID: IC L2 Full

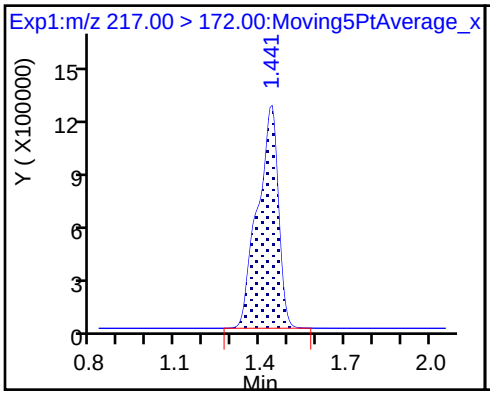
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

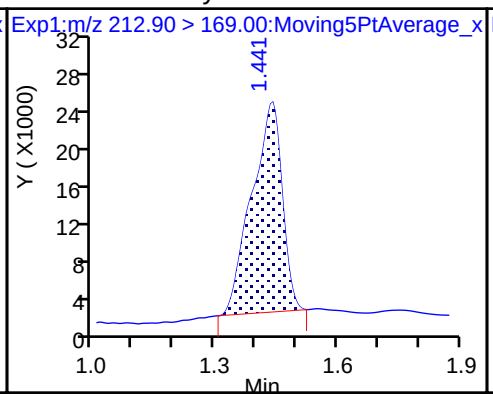
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

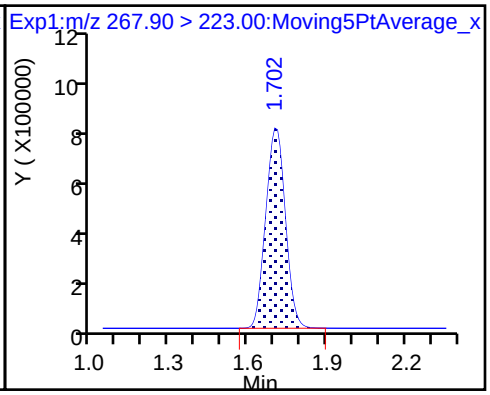
D 1 13C4 PFBA



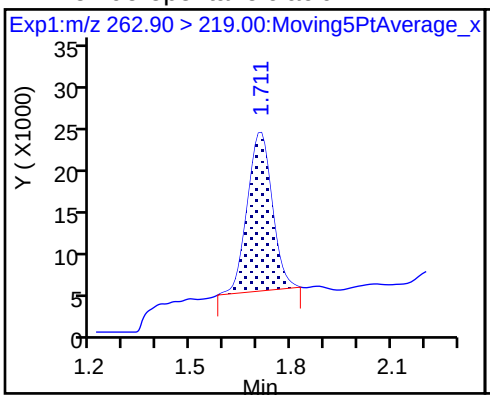
2 Perfluorobutyric acid



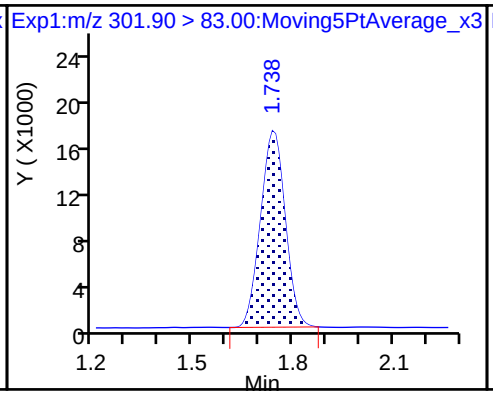
D 3 13C5-PFPeA



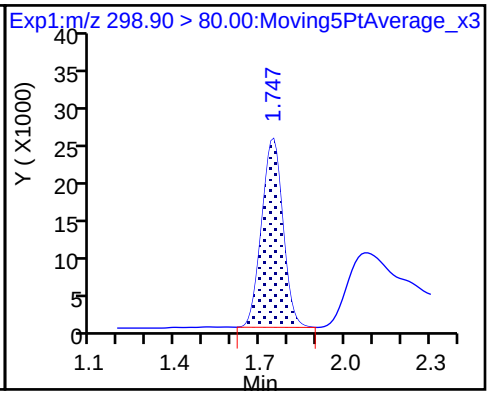
4 Perfluoropentanoic acid



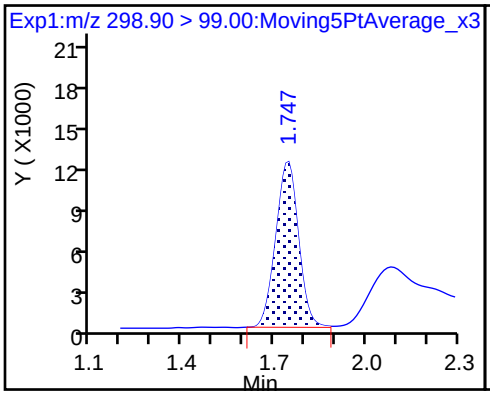
D 47 13C3-PFBS



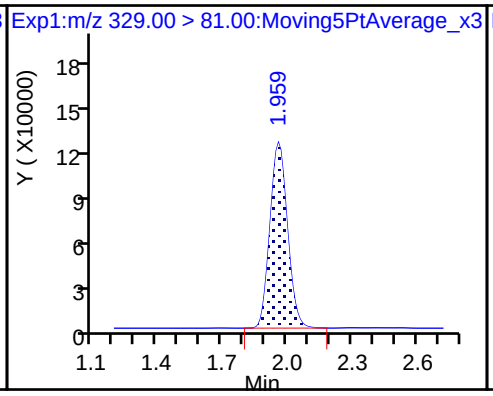
5 Perfluorobutanesulfonic acid



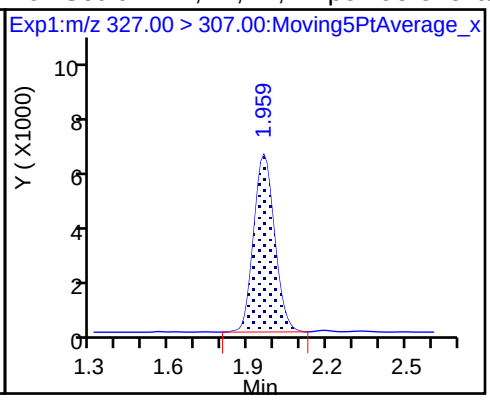
5 Perfluorobutanesulfonic acid



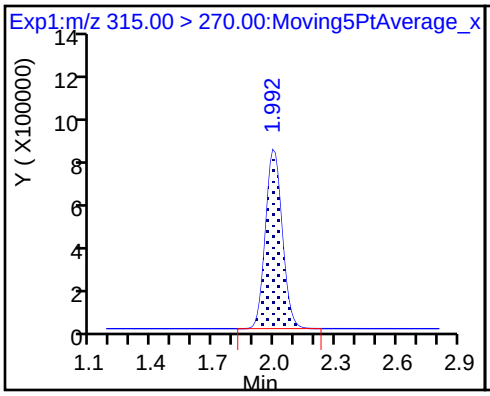
D 60 M2-4:2FTS



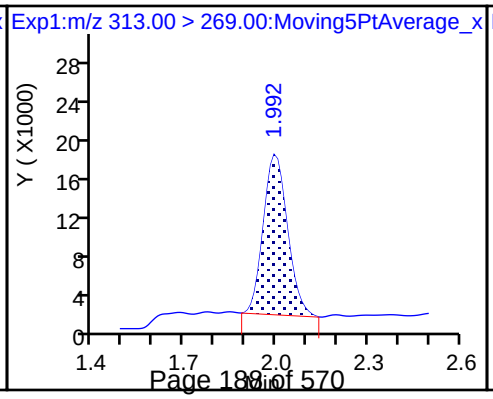
61 Sodium 1H,1H,2H,2H-perfluorohexane



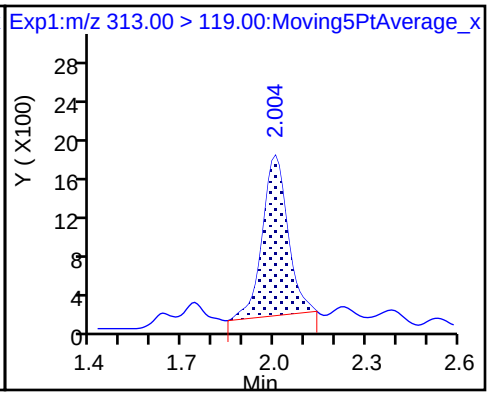
D 7 13C2 PFHxA



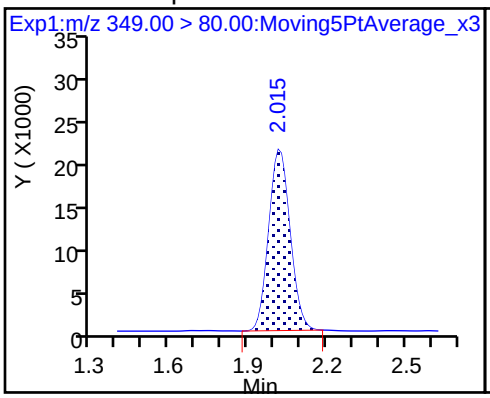
6 Perfluorohexanoic acid



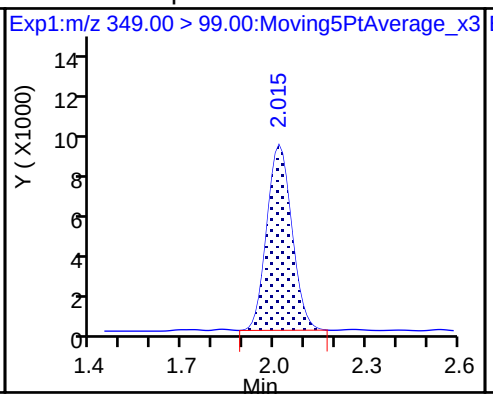
6 Perfluorohexanoic acid



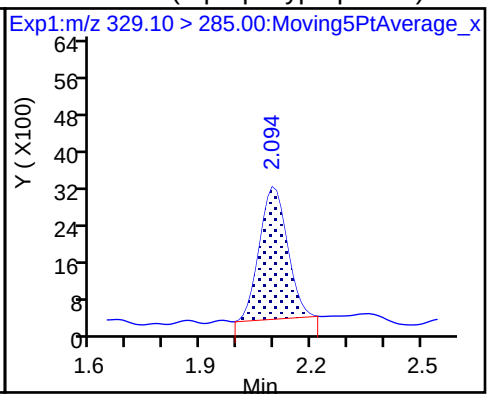
70 Perfluoropentanesulfonic acid



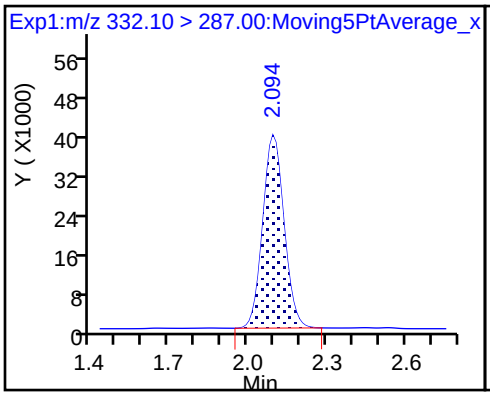
70 Perfluoropentanesulfonic acid



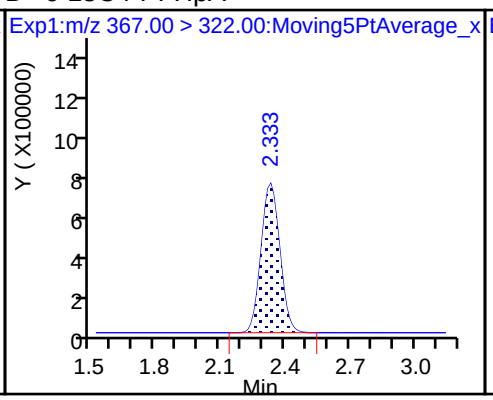
67 Perfluoro(2-propoxypropanoic) acid



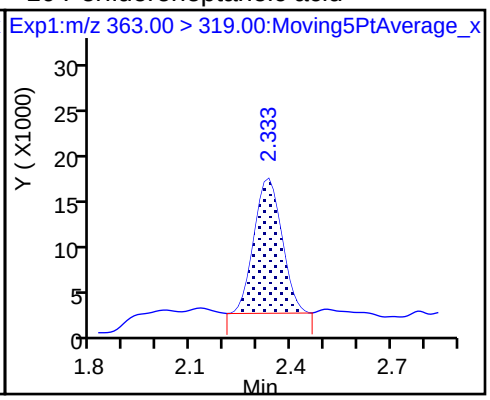
D 64 13C3 HFPO-DA



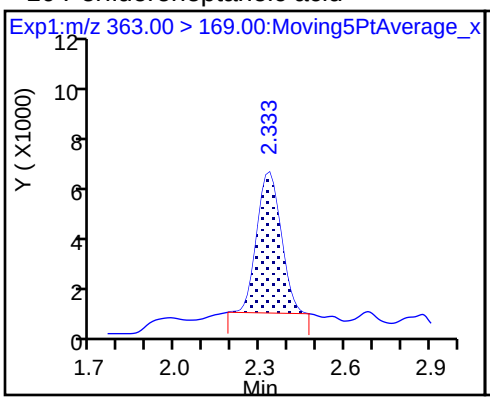
D 9 13C4-PFHpA



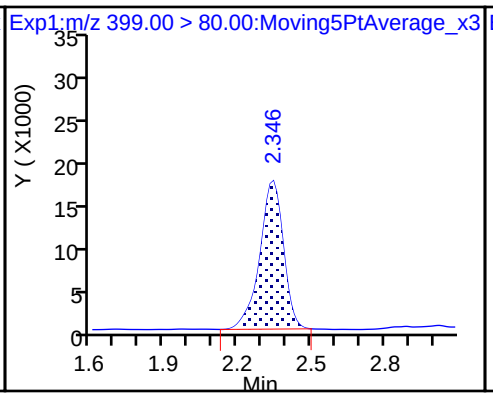
10 Perfluoroheptanoic acid



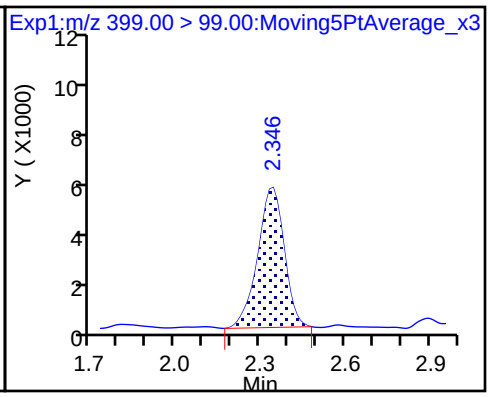
10 Perfluoroheptanoic acid



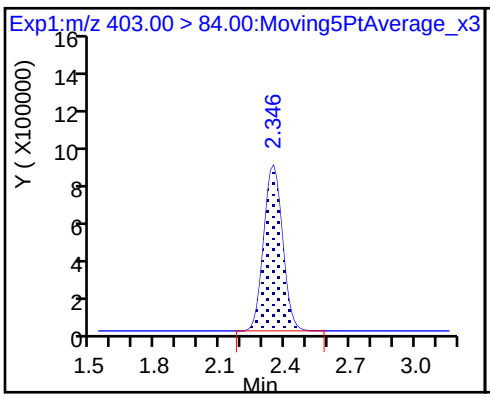
8 Perfluorohexanesulfonic acid



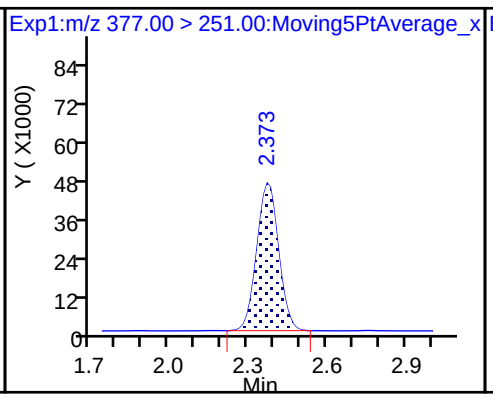
8 Perfluorohexanesulfonic acid



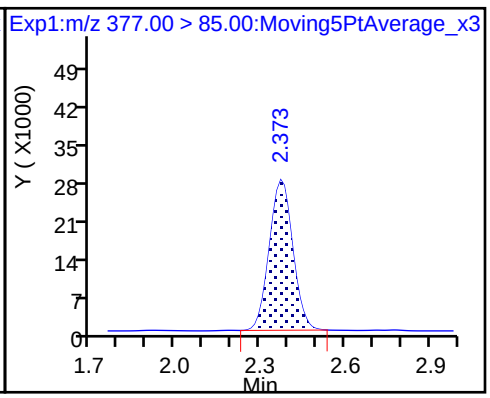
D 11 18O2 PFHxS



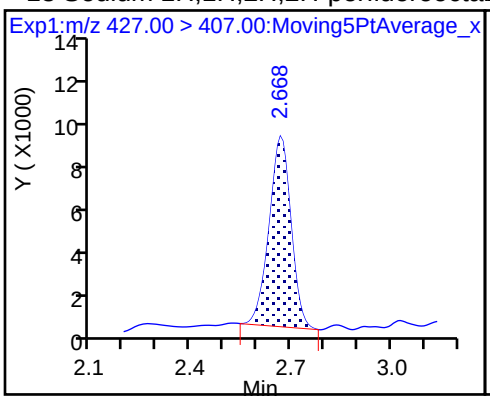
65 Adona



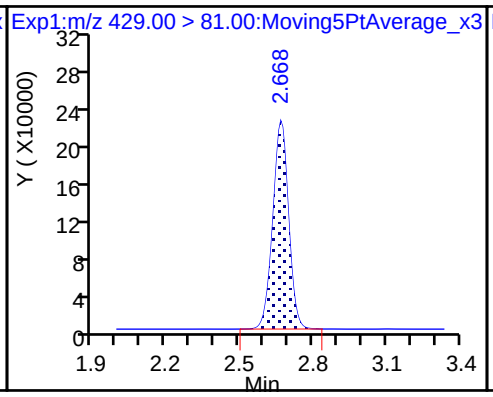
65 Adona



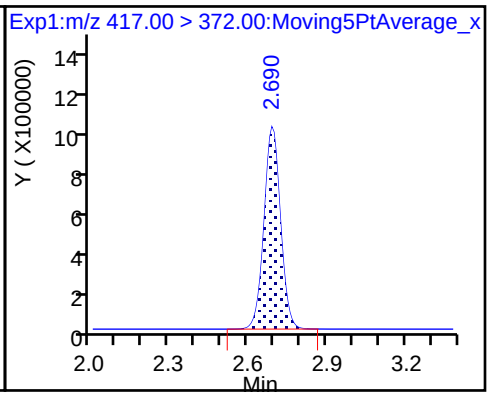
13 Sodium 1H,1H,2H,2H-perfluorooctane



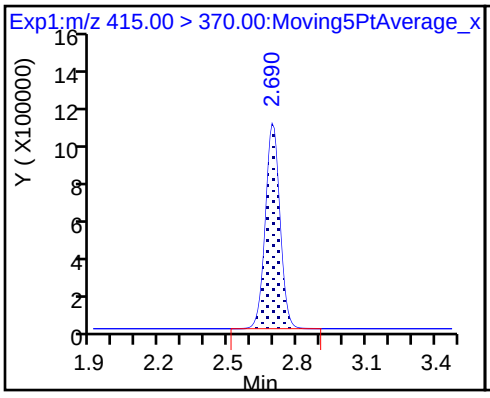
D 12 M2-6:2FTS



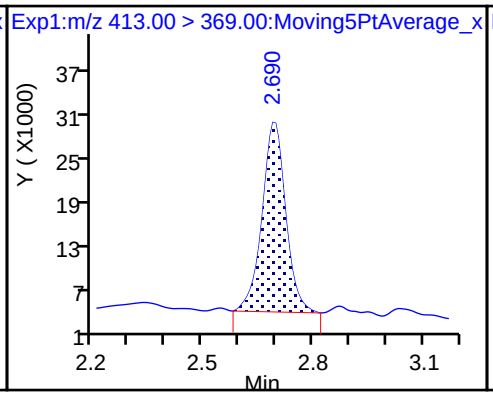
D 14 13C4 PFOA



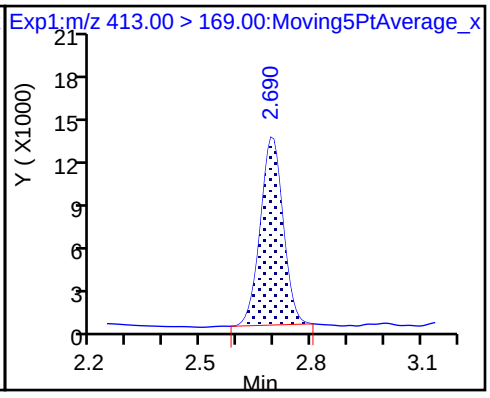
* 62 13C2-PFOA



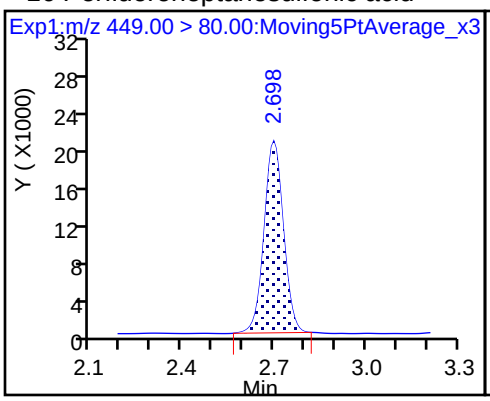
15 Perfluorooctanoic acid



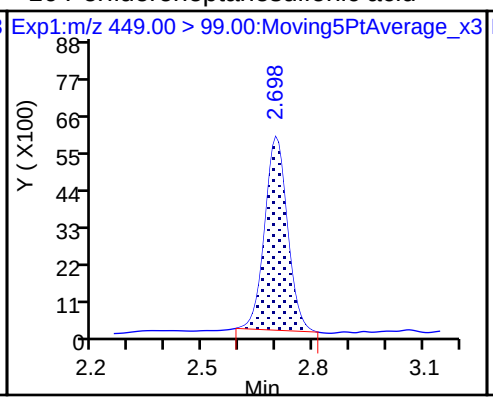
15 Perfluorooctanoic acid



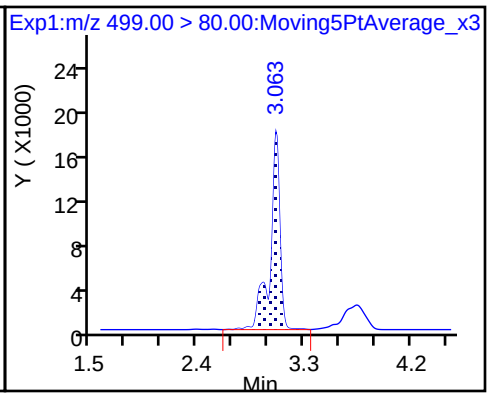
16 Perfluoroheptanesulfonic acid



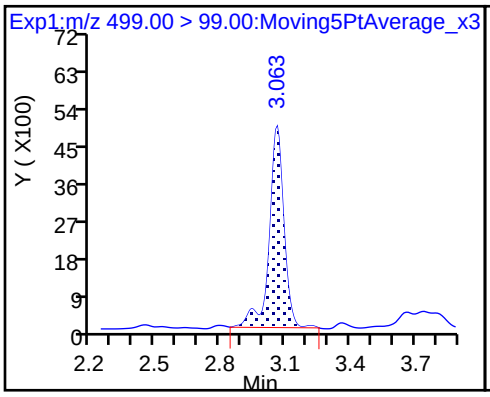
16 Perfluoroheptanesulfonic acid



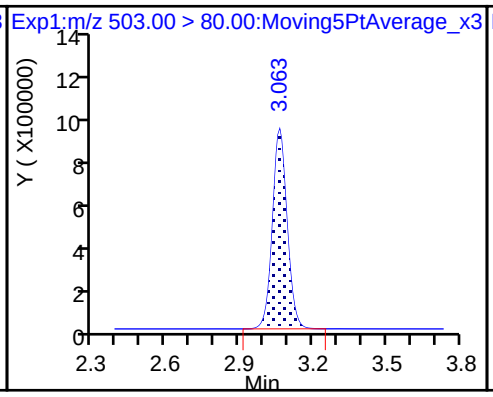
17 Perfluorooctane sulfonic acid



17 Perfluorooctane sulfonic acid



D 18 13C4 PFOS



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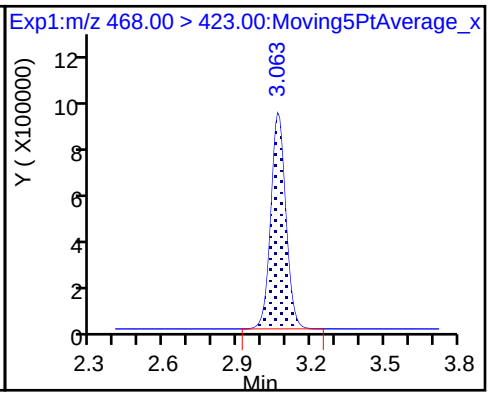
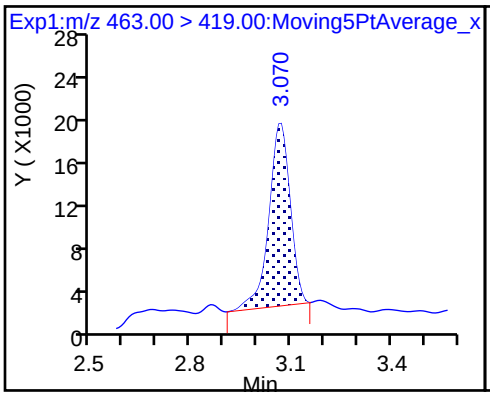
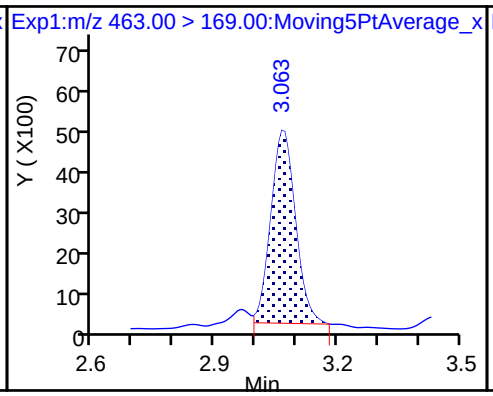


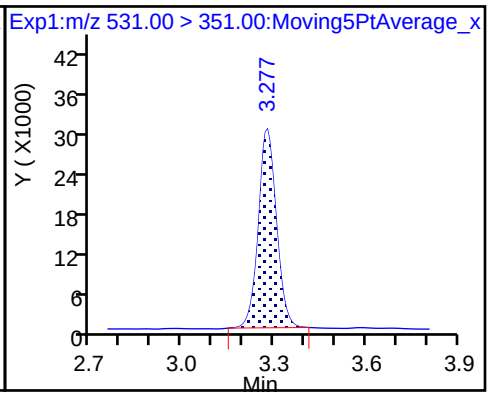
20 Perfluorononanoic acid



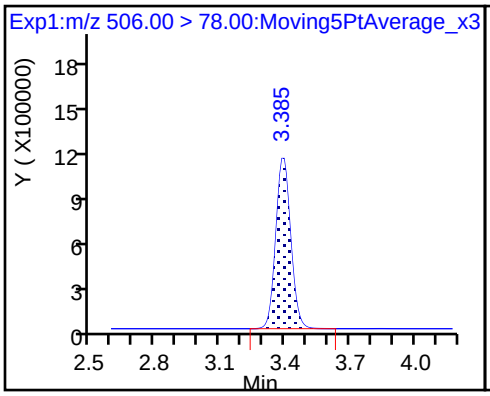
20 Perfluorononanoic acid



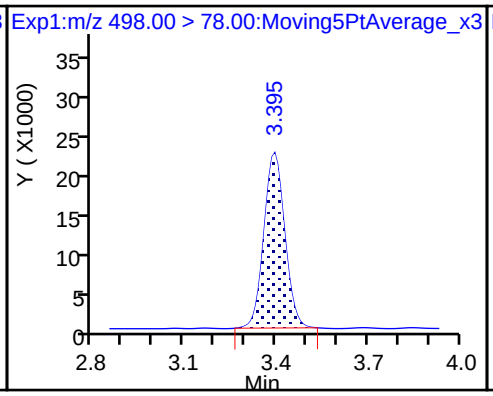
69 9-Chlorohexadecafluoro-3-oxanonane



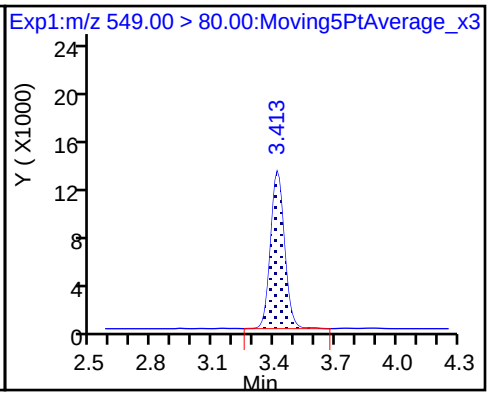
D 21 13C8 FOSA



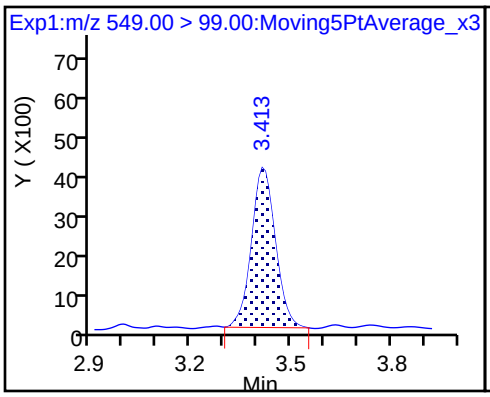
22 Perfluorooctane Sulfonamide



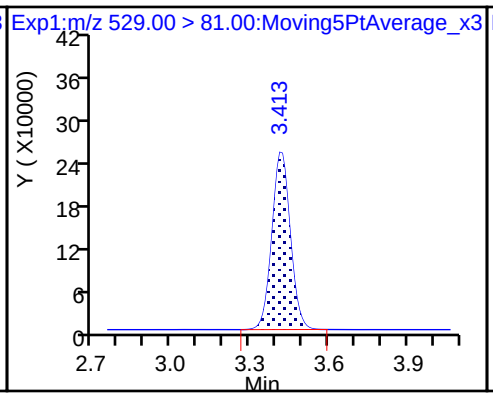
68 Perfluorononanesulfonic acid



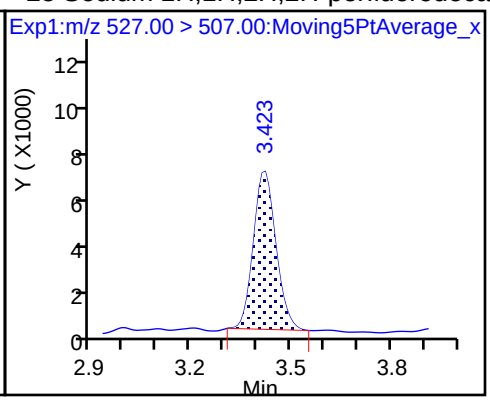
68 Perfluorononanesulfonic acid



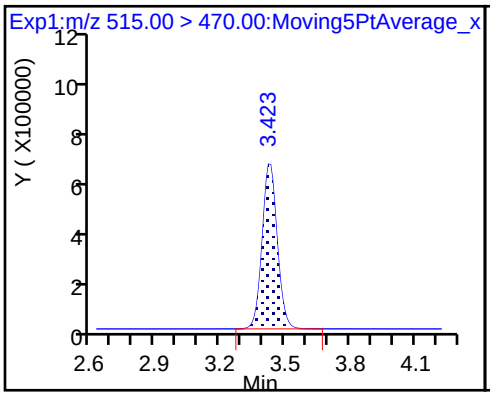
D 26 M2-8:2FTS



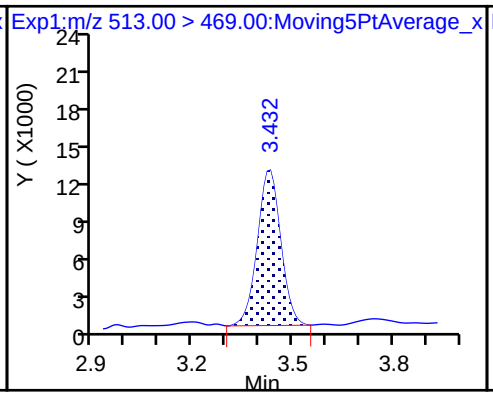
25 Sodium 1H,1H,2H,2H-perfluorodecane



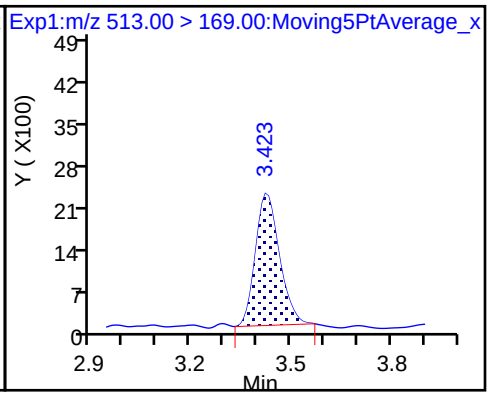
D 23 13C2 PFDA



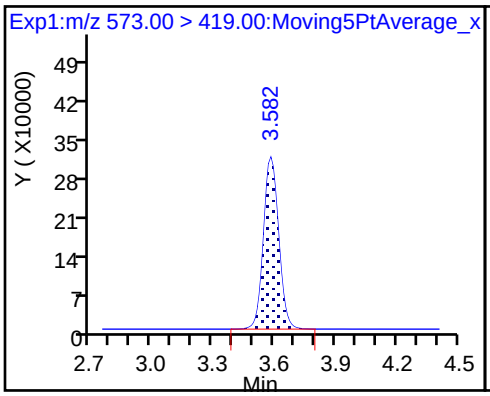
24 Perfluorodecanoic acid



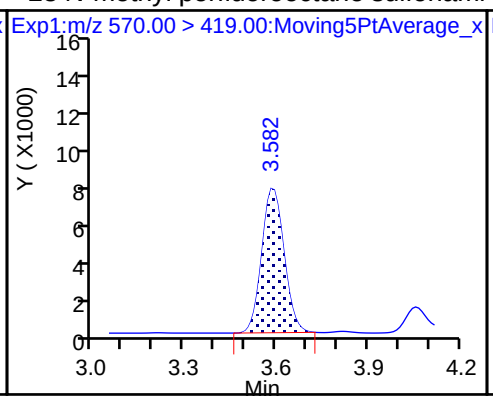
24 Perfluorodecanoic acid



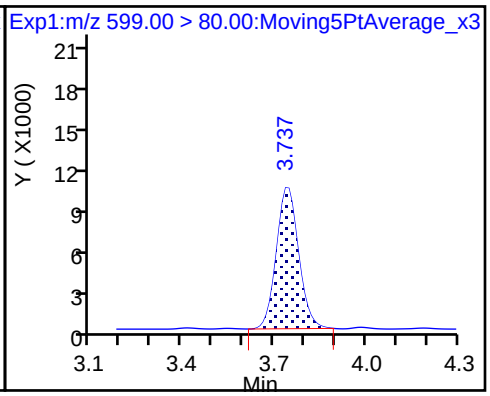
D 27 d3-NMeFOSAA



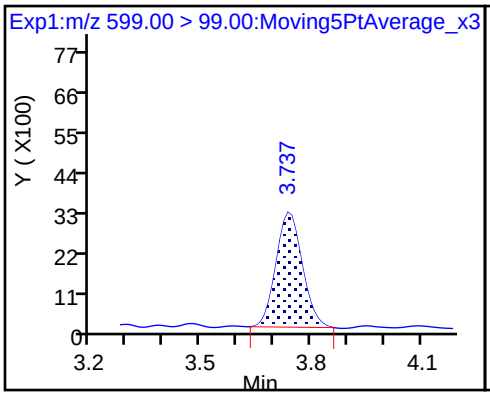
28 N-methyl perfluorooctane sulfonami



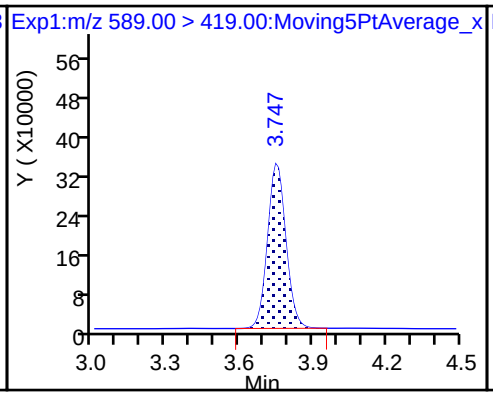
29 Perfluorodecane Sulfonic acid



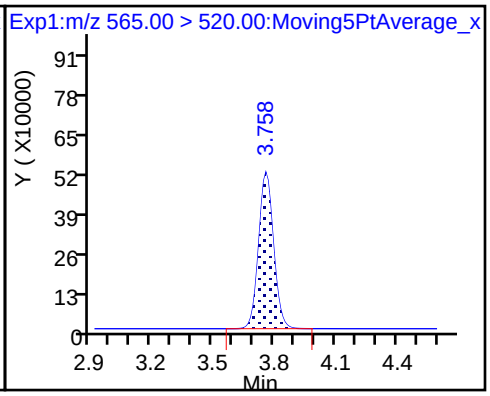
29 Perfluorodecane Sulfonic acid



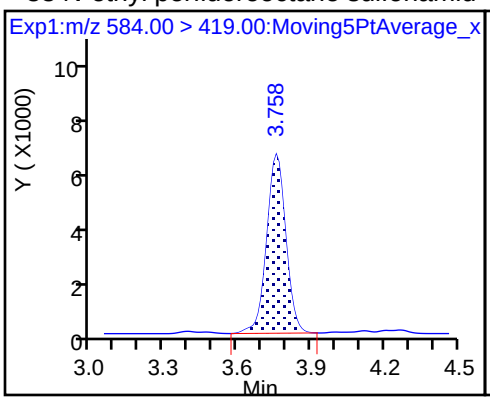
D 32 d5-NEtFOSAA



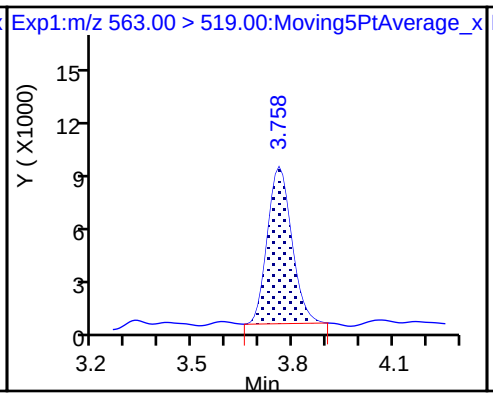
D 30 13C2 PFUnA



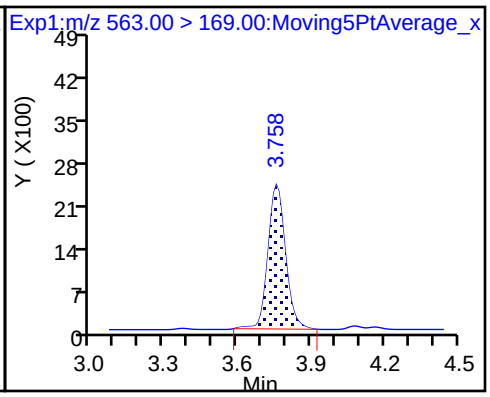
33 N-ethyl perfluorooctane sulfonamid



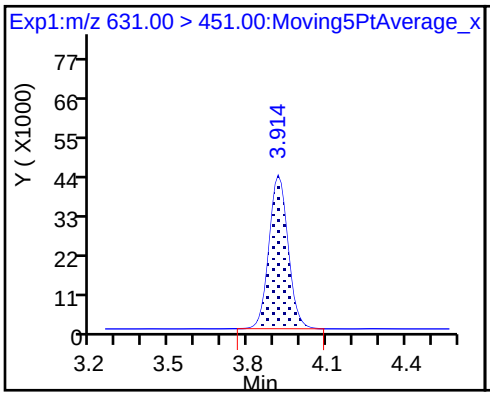
31 Perfluoroundecanoic acid



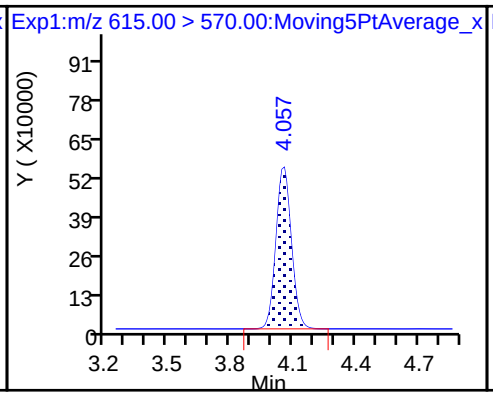
31 Perfluoroundecanoic acid



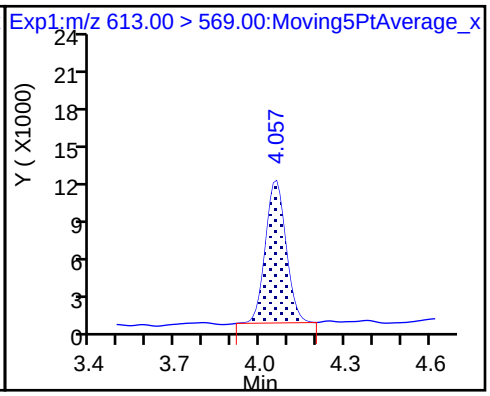
66 11-Chloroeicosafluoro-3-oxaundecan



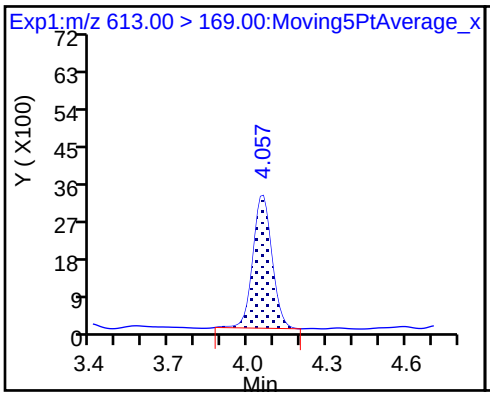
D 36 13C2 PFDoA



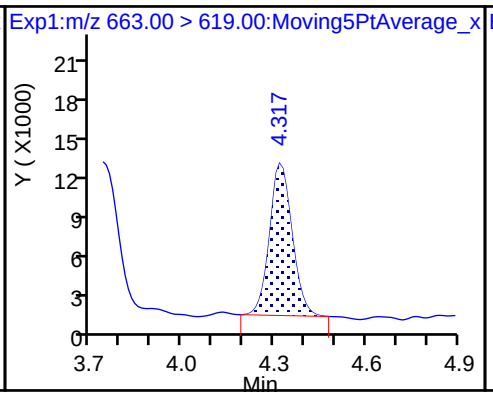
37 Perfluorododecanoic acid



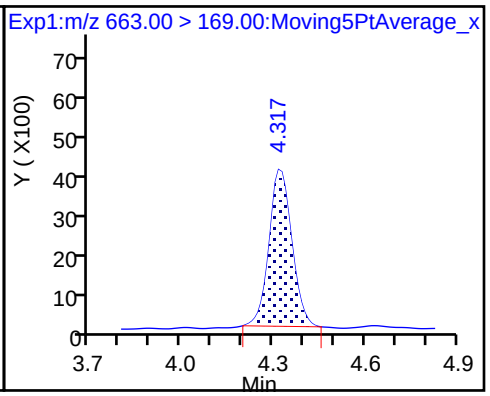
37 Perfluorododecanoic acid



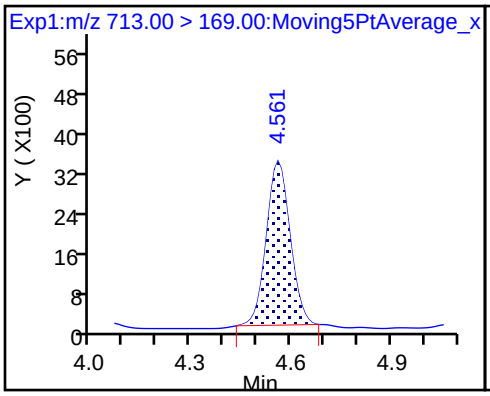
41 Perfluorotridecanoic acid



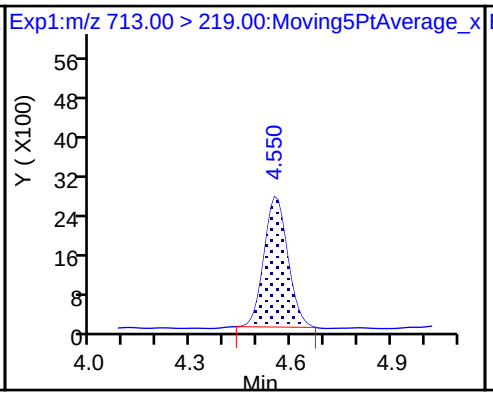
41 Perfluorotridecanoic acid



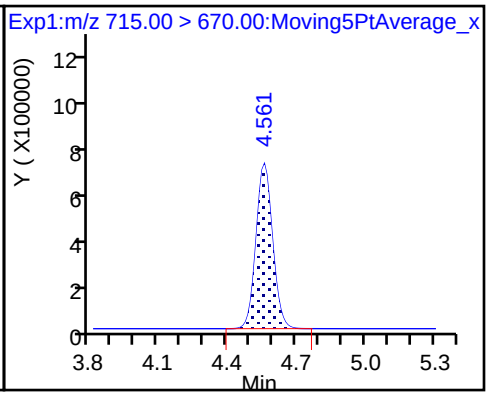
42 Perfluorotetradecanoic acid



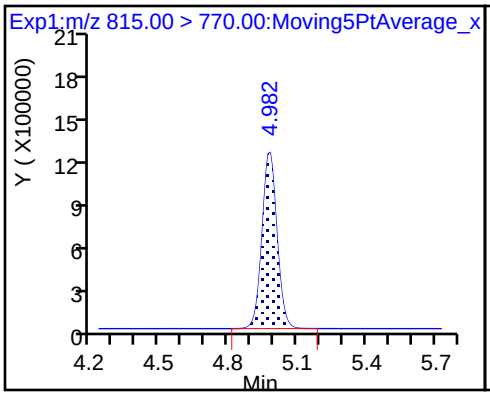
42 Perfluorotetradecanoic acid



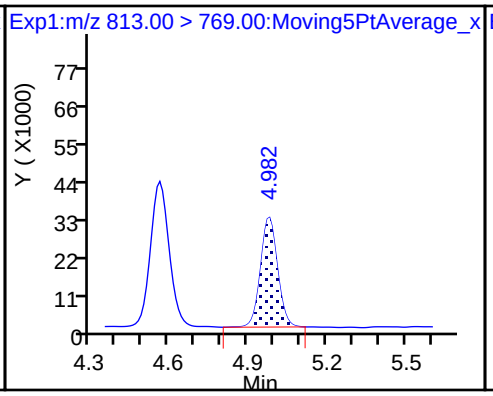
D 43 13C2-PFTeDA



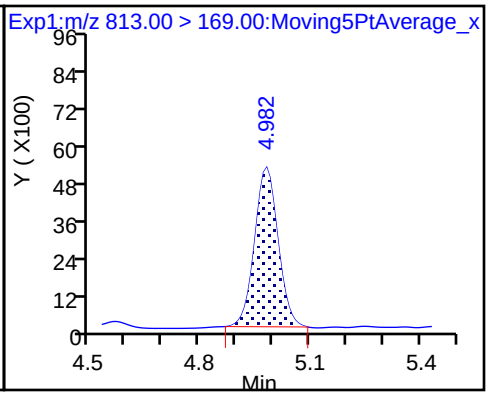
D 44 13C2-PFHxDA



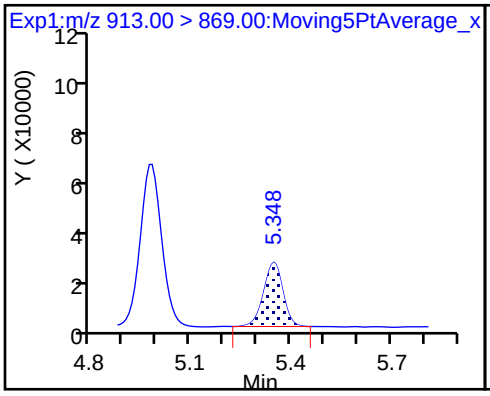
45 Perfluorohexadecanoic acid



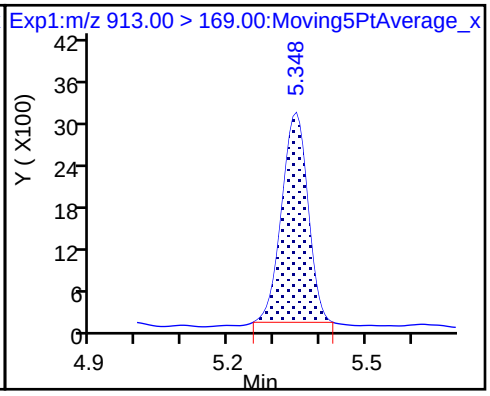
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Mar-2018 17:43:00 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:47:44 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 08:30:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.436	0.0	1.000	6060888	2.41		96.5	56962	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.437	-0.001	1.000	553955	0.2472		98.9	209	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.702	0.001	0.556	4032497	2.47		98.6	98655	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.706	-0.003	1.000	480043	0.2486		99.5	187	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.738	0.001	1.000	87970	2.35		101	533	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.742	-0.003	1.000	655502	0.2196		99.4	452	
298.90 > 99.00	1.739	1.742	-0.003	1.000	270315		2.42(1.25-3.74)	99.4	452	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.961	1.955	0.006	1.000	143786	0.2202		94.3	8707	
D 60 M2-4:2FTS										
329.00 > 81.00	1.961	1.955	0.006	1.000	659047	2.30		98.7	8619	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.003	1.000	4418534	2.45		98.0	132844	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.992	0.001	1.000	449634	0.2486		99.4	672	
313.00 > 119.00	1.993	1.992	0.001	1.000	43865		10.25(5.03-15.10)	99.4	560	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.013	0.003	1.000	604278	0.2243		95.7	15316	
349.00 > 99.00	2.016	2.013	0.003	1.000	229999		2.63(1.36-4.07)	95.7	5859	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.092	0.003	1.000	197281	2.20		87.9	3119	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.092	0.003	1.000	79234	0.2952		118	621	
D 9 13C4-PFHpA										
367.00 > 322.00	2.322	2.326	-0.004	1.000	4242345	2.45		97.9	58841	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.322	2.327	-0.005	1.000	440174	0.2387		95.5	382	
363.00 > 169.00	2.322	2.327	-0.005	1.000	167042		2.64(1.13-3.40)	95.5	414	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.335	2.339	-0.004	1.000	512387	0.2134		93.8	2668	
399.00 > 99.00	2.335	2.339	-0.004	1.000	182072		2.81(1.50-4.49)	93.8	1118	
D 11 18O2 PFHxS										
403.00 > 84.00	2.335	2.340	-0.005	1.000	5084038	2.35		99.4	70453	
65 Adona										
377.00 > 251.00	2.374	2.372	0.002	1.000	1396340	0.2727		109	30346	
377.00 > 85.00	2.374	2.372	0.002	1.000	777798		1.80(0.84-2.53)	109	15072	
D 12 M2-6:2FTS										
429.00 > 81.00	2.661	2.664	-0.004	1.000	1019321	2.54		107	29794	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.661	2.664	-0.004	1.000	174781	0.2181		92.0	926	
D 14 13C4 PFOA										
417.00 > 372.00	2.691	2.688	0.002	1.000	4272950	2.51		100	76270	
* 62 13C2-PFOA										
415.00 > 370.00	2.691	2.689	0.001		4546643	2.50			87379	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.691	2.690	0.0	1.000	477643	0.2357		94.3	156	
413.00 > 169.00	2.691	2.690	0.0	1.000	240403		1.99(0.84-2.52)	94.3	957	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.698	2.695	0.003	1.000	477719	0.2495		105	12384	
449.00 > 99.00	2.698	2.695	0.003	1.000	122111		3.91(1.94-5.82)	105	3153	
D 18 13C4 PFOS										
503.00 > 80.00	3.057	3.060	-0.003	1.000	3434108	2.29		95.7	54984	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.057	3.060	-0.003	1.000	363900	0.2216		95.5	797	
499.00 > 99.00	3.057	3.060	-0.003	1.000	84231		4.32(2.31-6.93)	95.5	698	
D 19 13C5 PFNA										
468.00 > 423.00	3.064	3.061	0.003	1.000	3523980	2.44		97.7	70645	
20 Perfluorononanoic acid										
463.00 > 419.00	3.064	3.064	0.0	1.000	356101	0.2455		98.2	343	
463.00 > 169.00	3.064	3.064	0.0	1.000	90740		3.92(1.90-5.69)	98.2	3091	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.271	3.272	-0.001	1.000	665453	0.2477		106	11650	
D 21 13C8 FOSA										
506.00 > 78.00	3.386	3.388	-0.002	1.000	5204720	2.45		98.1	61555	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.386	3.389	-0.003	1.000	523091	0.2544		102	15875	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.413	3.409	0.004	1.000	272737	0.2367		98.6	9533	
549.00 > 99.00	3.413	3.409	0.004	1.000	111781		2.44(1.33-3.97)	98.6	2945	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.413	0.0	1.000	1144081	2.46		103	33988	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.415	-0.002	1.000	140627	0.2183		91.1	1260	
D 23 13C2 PFDA										
515.00 > 470.00	3.423	3.423	0.0	1.000	2904523	2.38		95.4	40768	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.423	3.427	-0.004	1.000	302194	0.2629		105	1474	
513.00 > 169.00	3.423	3.427	-0.004	1.000	58285		5.18(2.36-7.09)	105	2424	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.583	3.578	0.004	1.000	1579046	2.42		96.9	44458	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.583	3.581	0.001	1.000	160694	0.2414		96.5	1665	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.737	3.738	-0.001	1.000	238488	0.2392		99.3	7789	
599.00 > 99.00	3.737	3.738	-0.001	1.000	75761		3.15(1.39-4.16)	99.3	2515	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.749	-0.002	1.000	1667774	2.44		97.6	5132	
D 30 13C2 PFUnA										
565.00 > 520.00	3.758	3.753	0.005	1.000	2421277	2.44		97.4	58900	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.755	0.003	1.003	158064	0.2584		103	2333	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.758	3.755	0.003	1.000	181675	0.2338		93.5	762	
563.00 > 169.00	3.758	3.755	0.003	1.000	53494		3.40(2.12-6.36)	93.5	2615	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.914	3.910	0.004	1.000	1001338	0.2401		102	22386	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.047	4.052	-0.005	1.000	269716	0.2285		91.4	196	
613.00 > 169.00	4.047	4.052	-0.005	1.000	66650		4.05(2.13-6.40)	91.4	1457	
D 36 13C2 PFDoA										
615.00 > 570.00	4.047	4.052	-0.005	1.000	2730672	2.47		98.7	20860	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.317	4.316	0.001	1.000	301420	0.2387		95.5	116	
663.00 > 169.00	4.317	4.316	0.001	1.000	102600		2.94(1.25-3.76)	95.5	1837	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.561	4.558	0.003	1.000	3442831	2.45		97.9	17673	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.561	4.558	0.003	1.000	88991	0.2587		103	1506	
713.00 > 219.00	4.550	4.558	-0.008	0.998	67523		1.32(0.71-2.13)	103	1702	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.973	4.977	-0.004	1.000	523255	0.2476		99.0	127	
813.00 > 169.00	4.973	4.977	-0.004	1.000	91462		5.72(2.86-8.58)	99.0	886	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.973	4.977	-0.004	1.000	5136479	2.37		94.6	13963	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.348	5.344	0.004	1.000	548804	0.2690		108	95.1	
913.00 > 169.00	5.341	5.344	-0.003	0.999	65998		8.32(3.83-11.48)	108	957	

Reagents:

LCPFC_LL3_00004 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:47:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_004.d

Injection Date: 29-Mar-2018 17:43:00 Instrument ID: A8_N

Lims ID: IC L3 Full

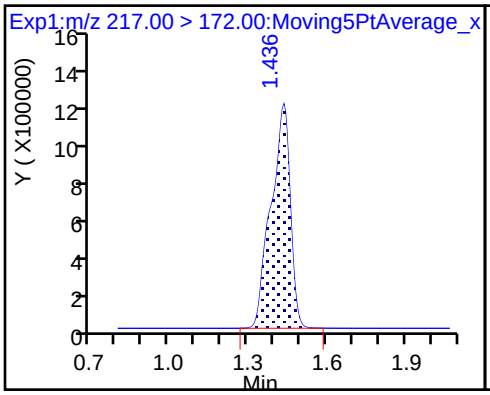
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

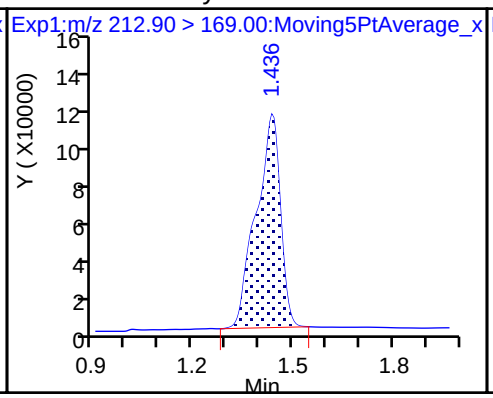
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

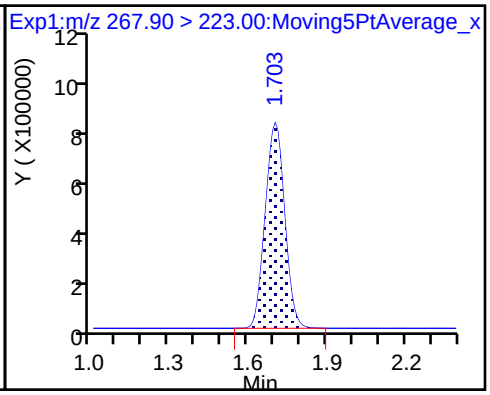
D 1 13C4 PFBA



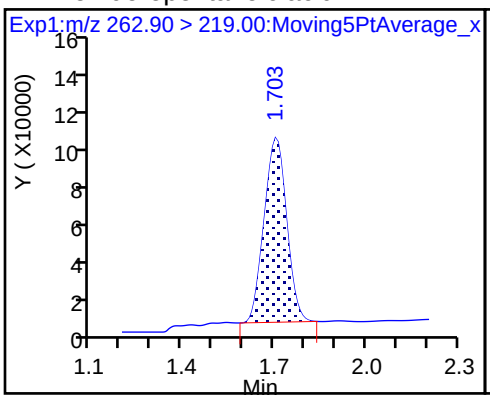
2 Perfluorobutyric acid



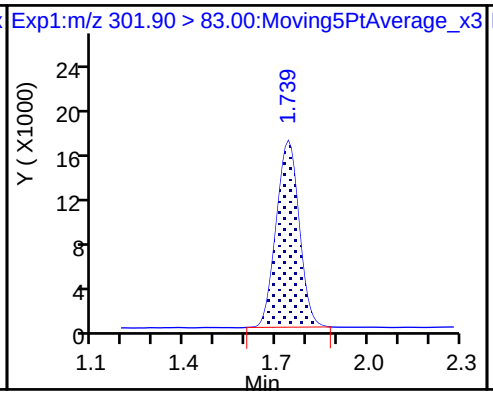
D 3 13C5-PFPeA



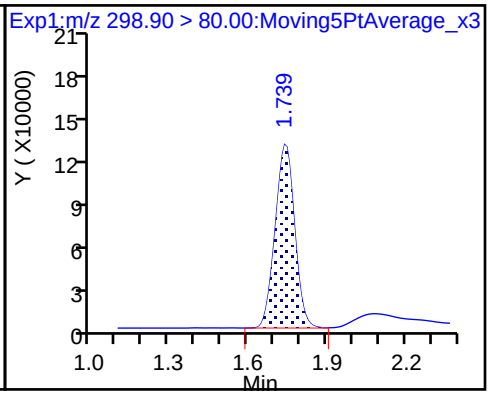
4 Perfluoropentanoic acid



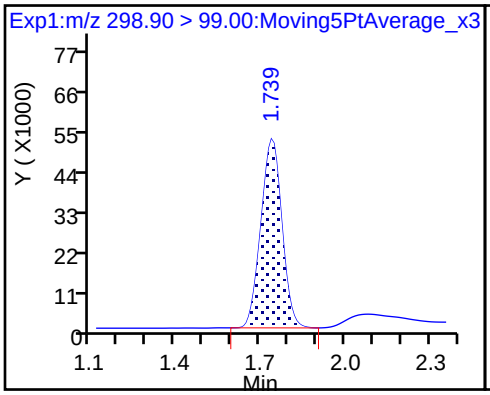
D 47 13C3-PFBS



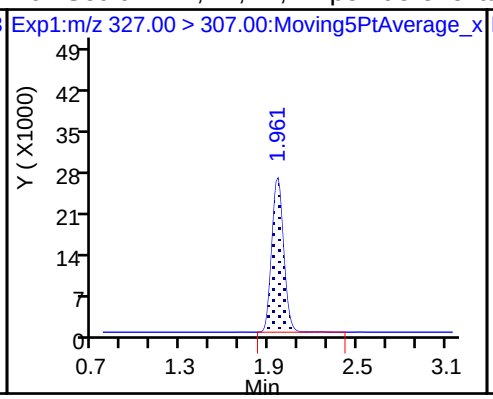
5 Perfluorobutanesulfonic acid



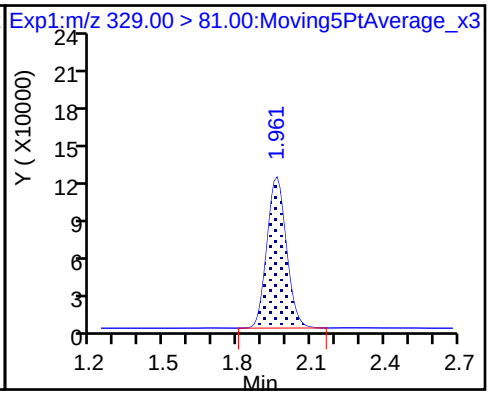
5 Perfluorobutanesulfonic acid



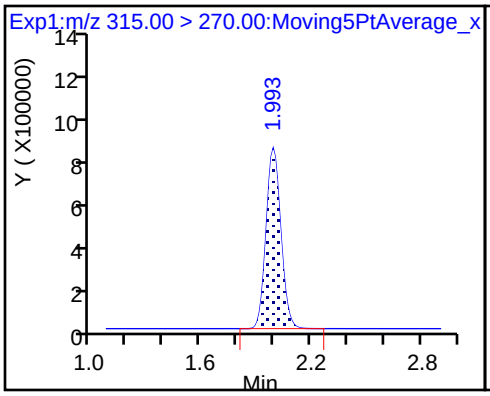
61 Sodium 1H,1H,2H,2H-perfluorohexane



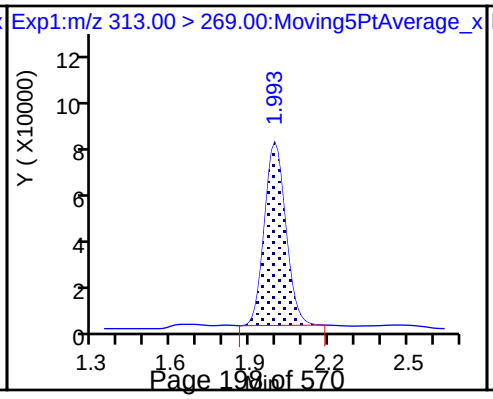
D 60 M2-4:2FTS



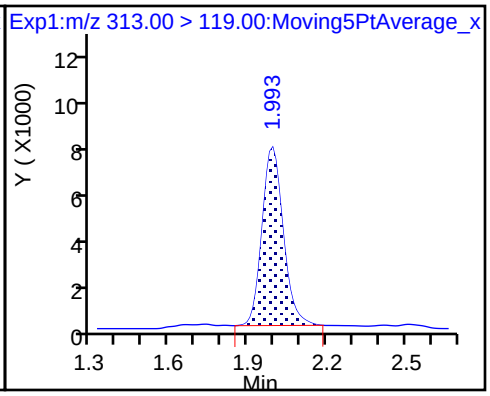
D 7 13C2 PFHxA



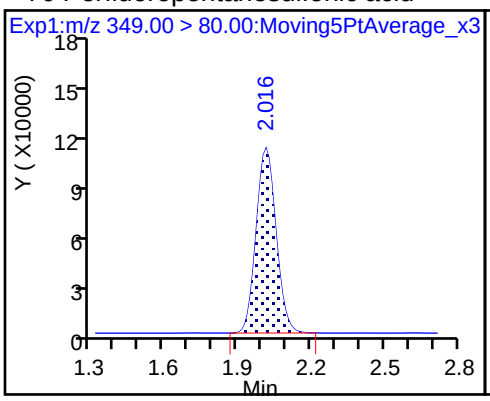
6 Perfluorohexanoic acid



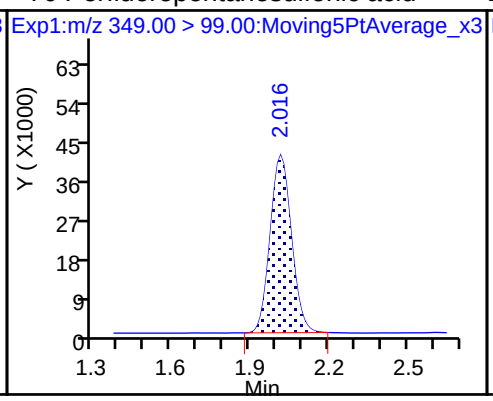
6 Perfluorohexanoic acid



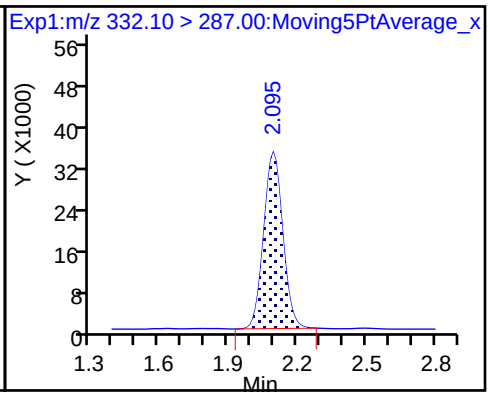
70 Perfluoropentanesulfonic acid



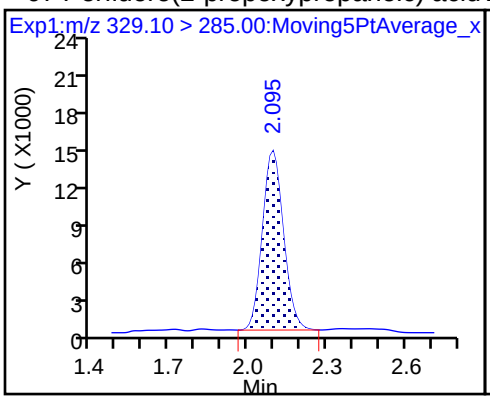
70 Perfluoropentanesulfonic acid



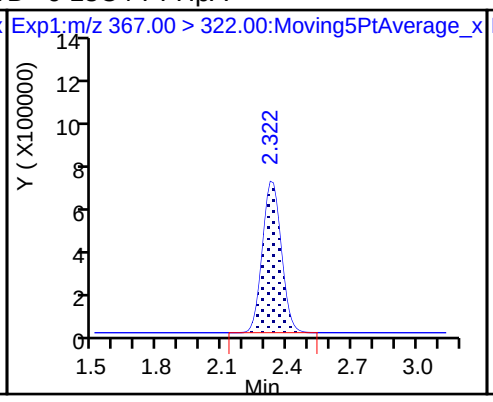
D 64 13C3 HFPO-DA



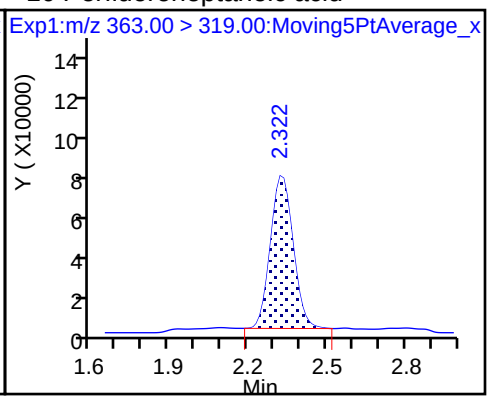
67 Perfluoro(2-propoxypropanoic) acid



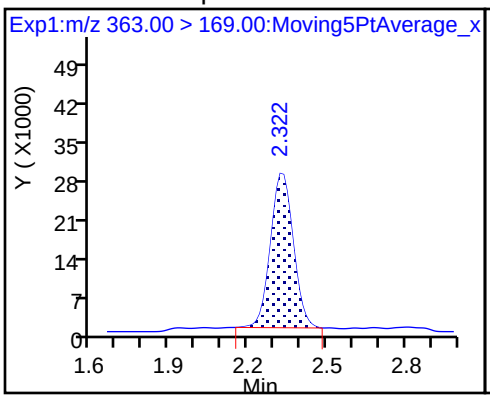
D 9 13C4-PFHpA



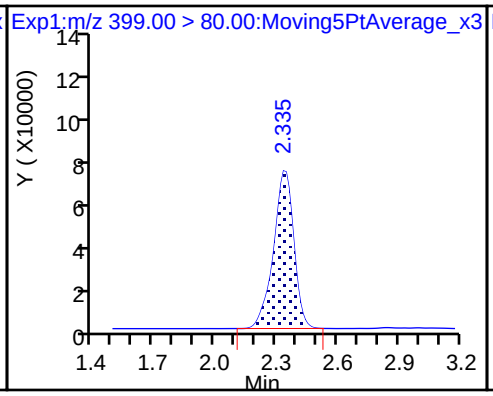
10 Perfluoroheptanoic acid



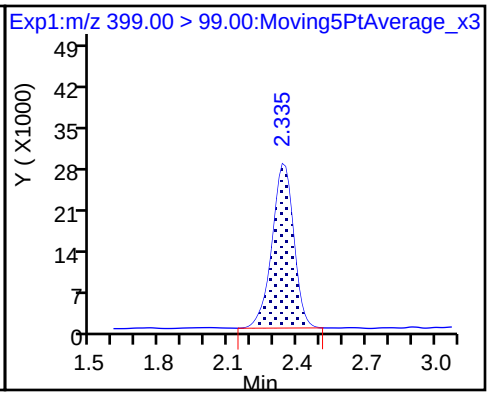
10 Perfluoroheptanoic acid



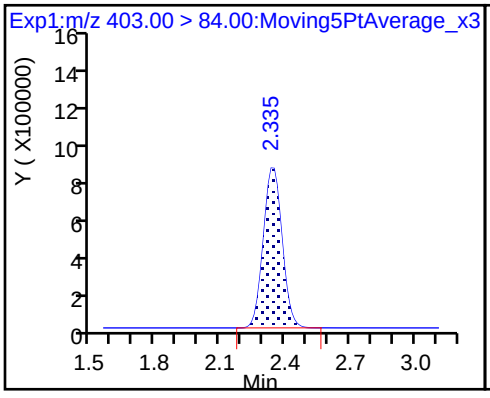
8 Perfluorohexanesulfonic acid



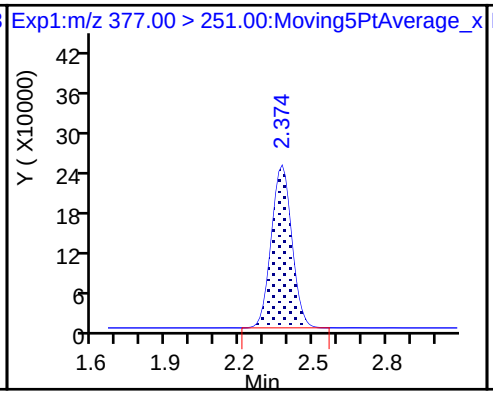
8 Perfluorohexanesulfonic acid



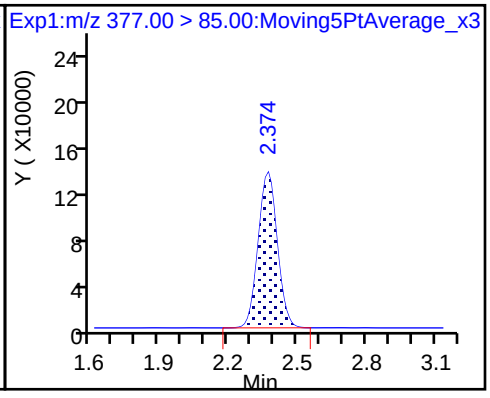
D 11 18O2 PFHxS



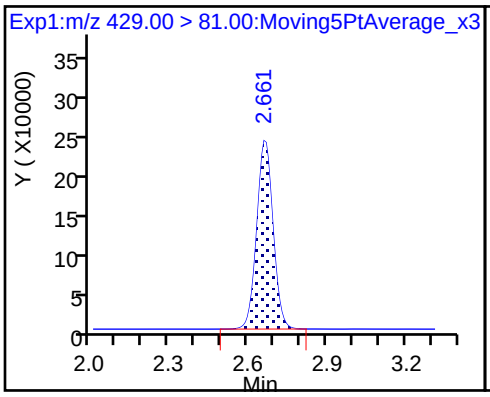
65 Adona



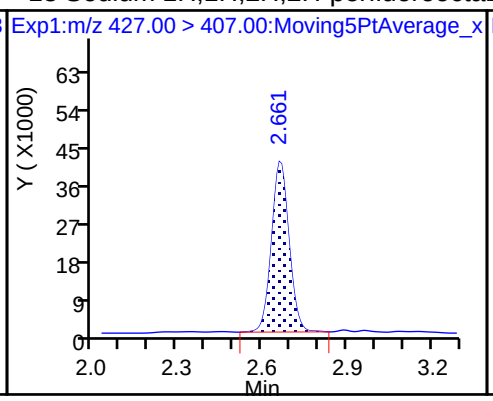
65 Adona



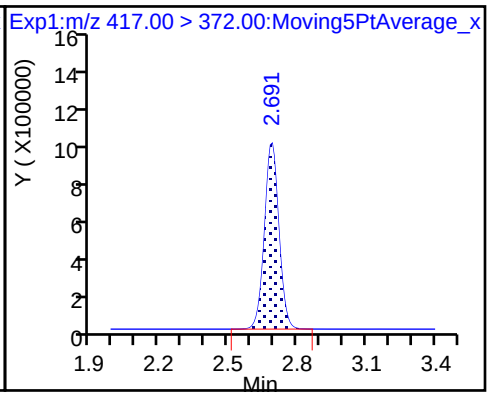
D 12 M2-6:2FTS



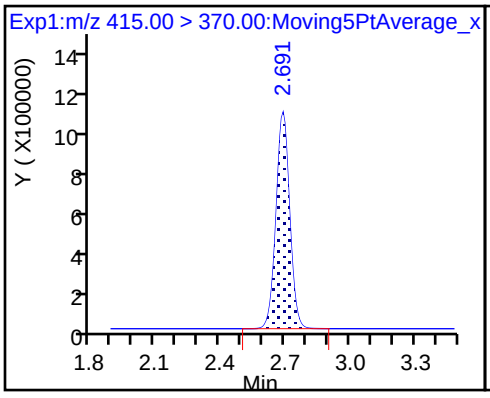
13 Sodium 1H,1H,2H,2H-perfluorooctane



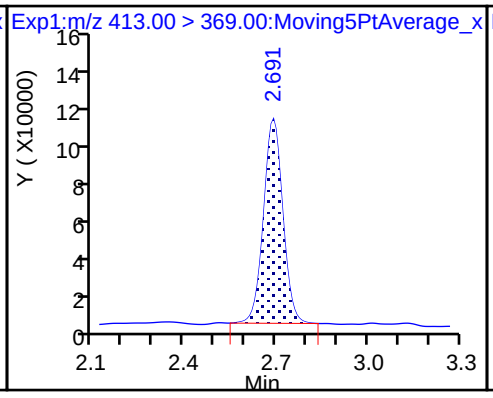
D 14 13C4 PFOA



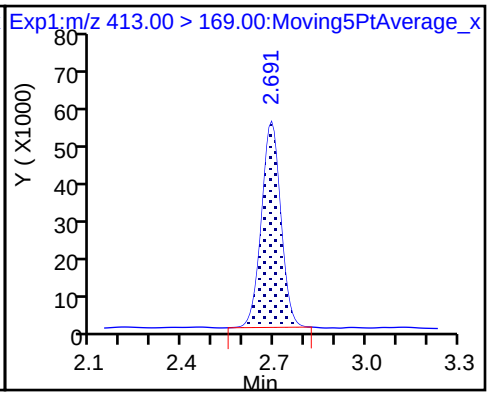
* 62 13C2-PFOA



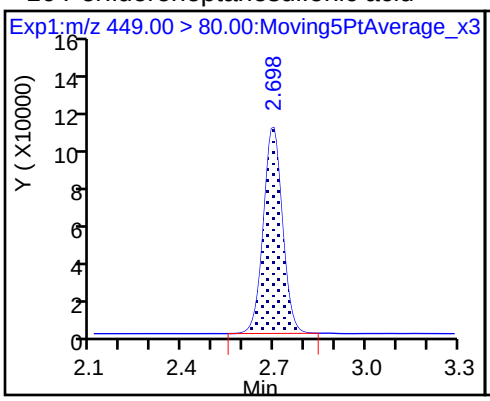
15 Perfluorooctanoic acid



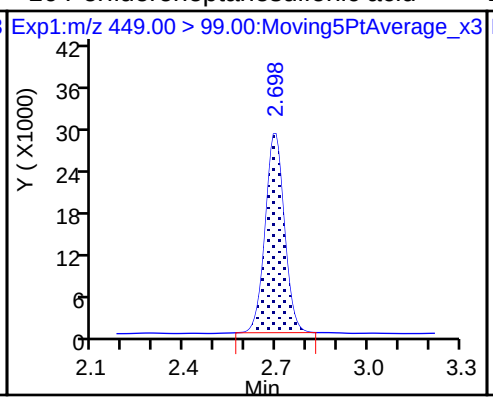
15 Perfluorooctanoic acid



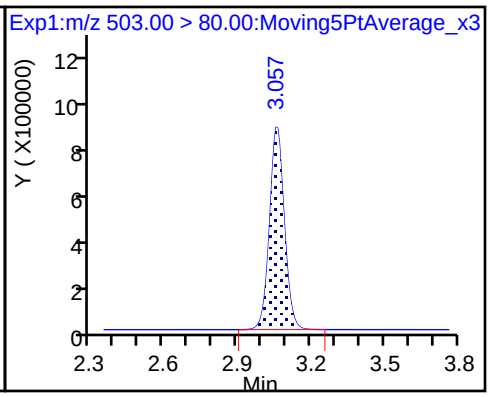
16 Perfluoroheptanesulfonic acid



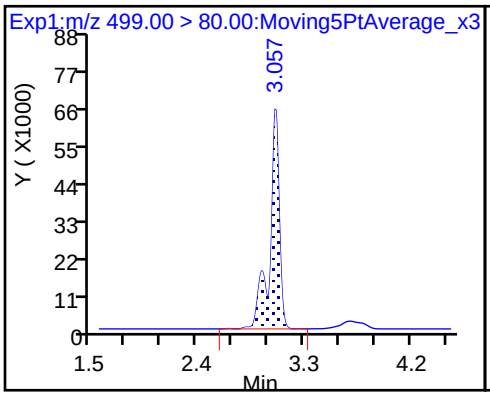
16 Perfluoroheptanesulfonic acid



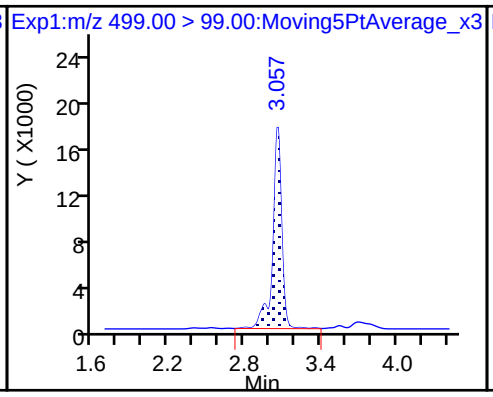
D 18 13C4 PFOS



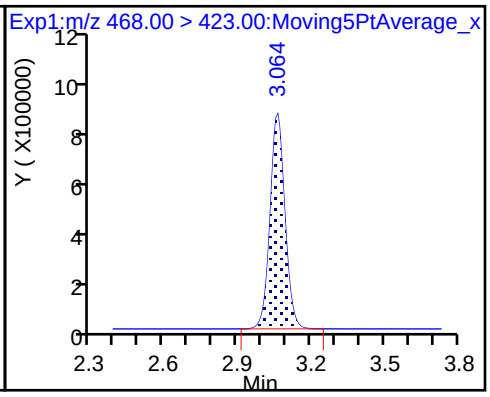
17 Perfluorooctane sulfonic acid



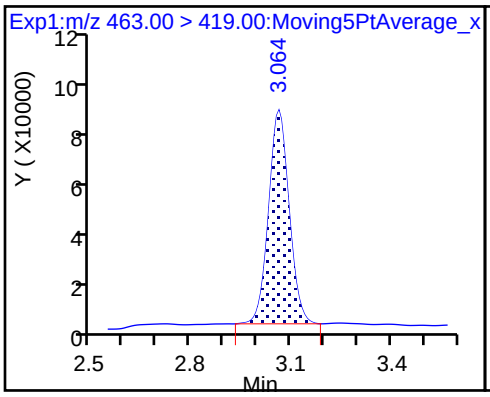
17 Perfluorooctane sulfonic acid



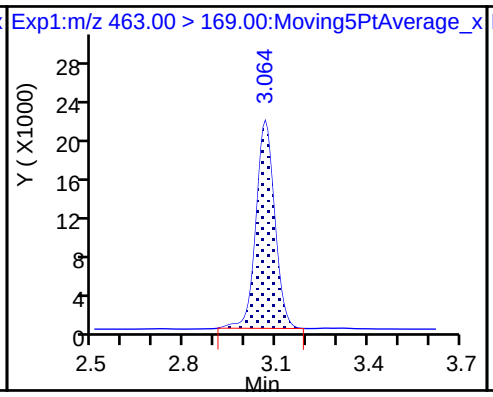
D 19 13C5 PFNA



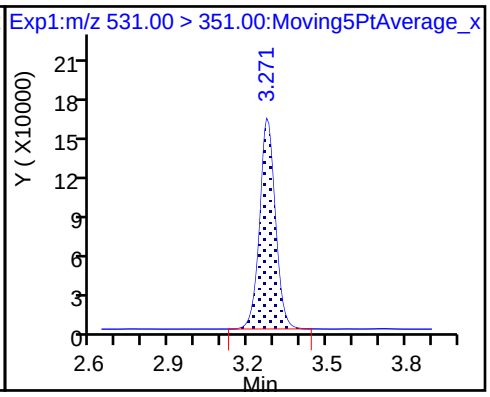
20 Perfluorononanoic acid



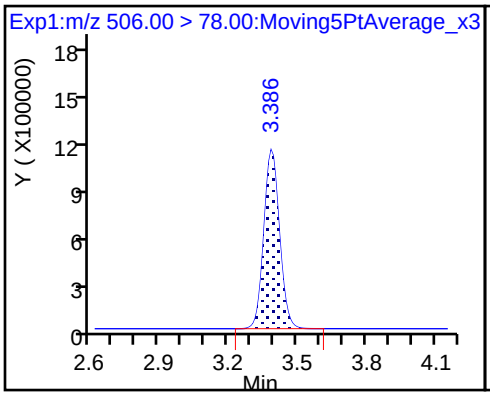
20 Perfluorononanoic acid



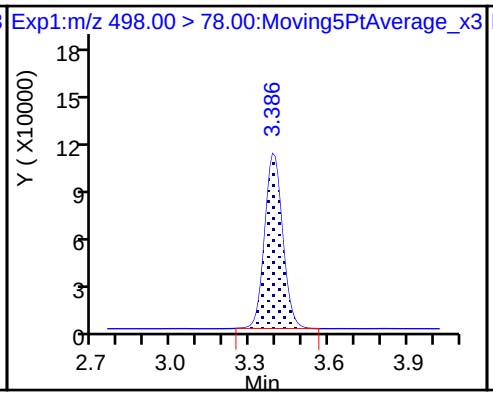
69 9-Chlorohexadecafluoro-3-oxanonane



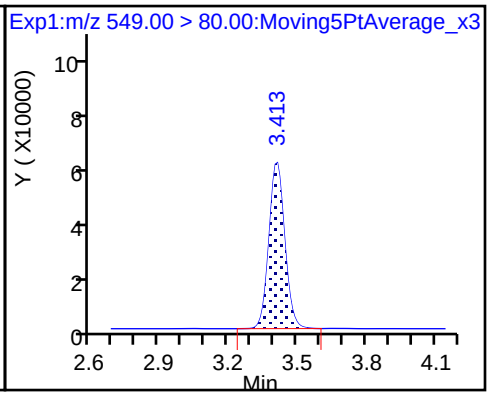
D 21 13C8 FOSA



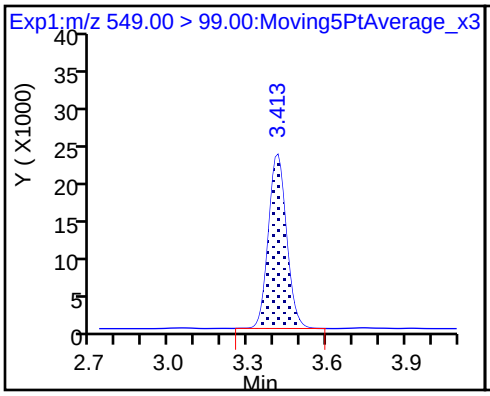
22 Perfluorooctane Sulfonamide



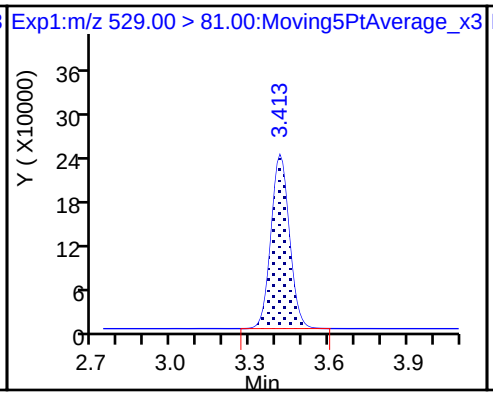
68 Perfluorononanesulfonic acid



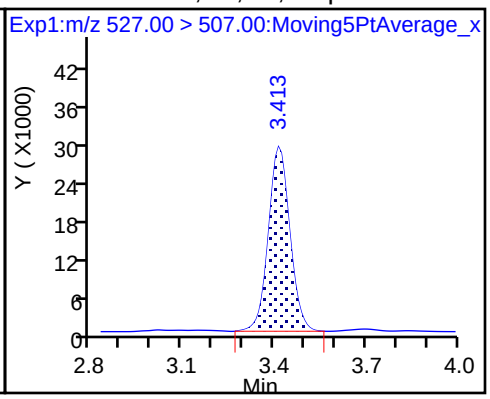
68 Perfluorononanesulfonic acid



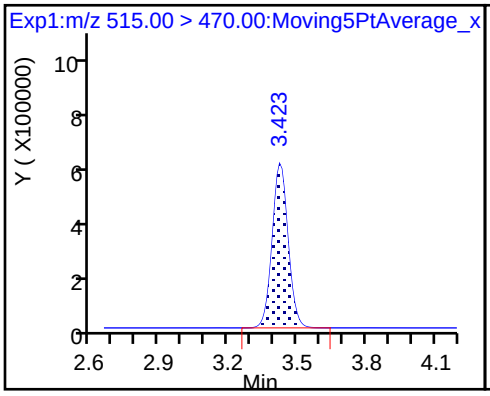
D 26 M2-8:2FTS



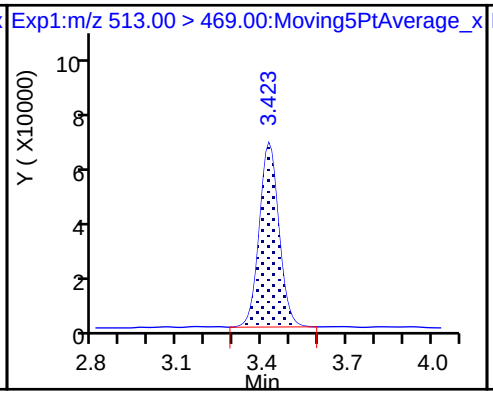
25 Sodium 1H,1H,2H,2H-perfluorodecane



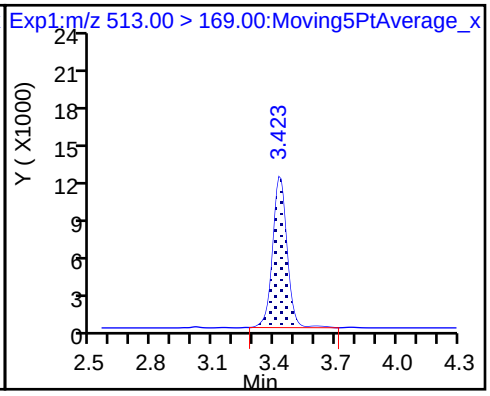
D 23 13C2 PFDA



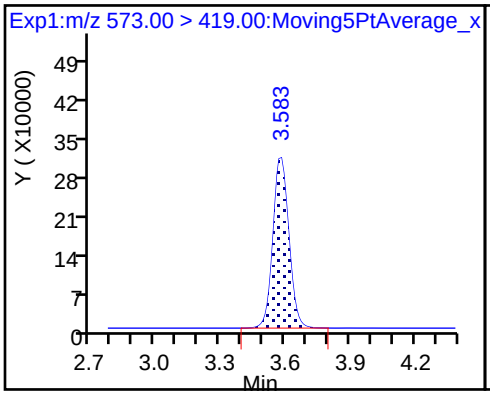
24 Perfluorodecanoic acid



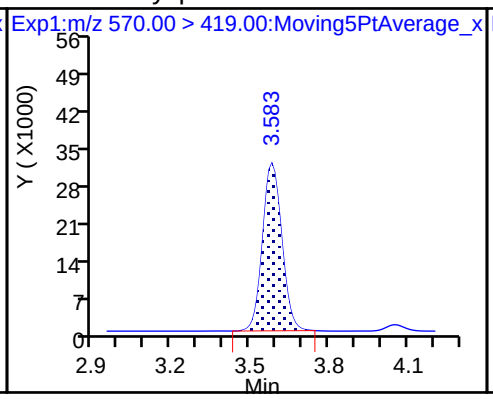
24 Perfluorodecanoic acid



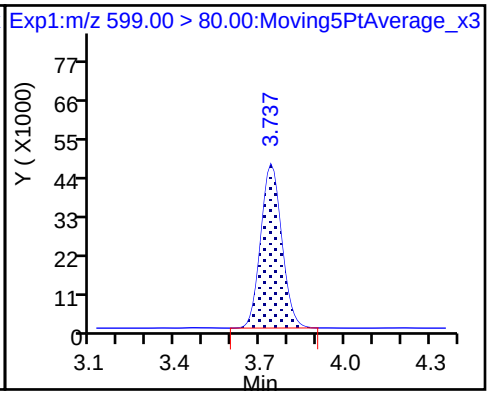
D 27 d3-NMeFOSAA



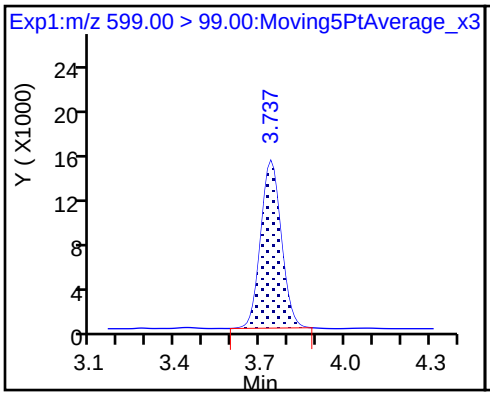
28 N-methyl perfluorooctane sulfonami



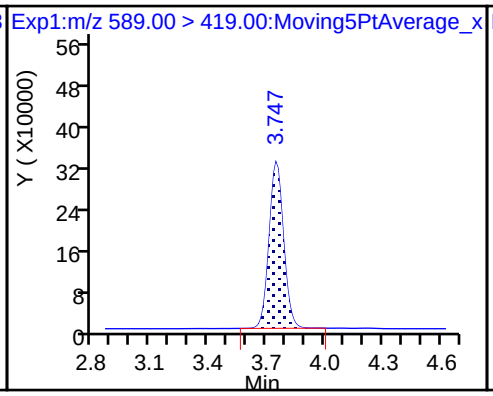
29 Perfluorodecane Sulfonic acid



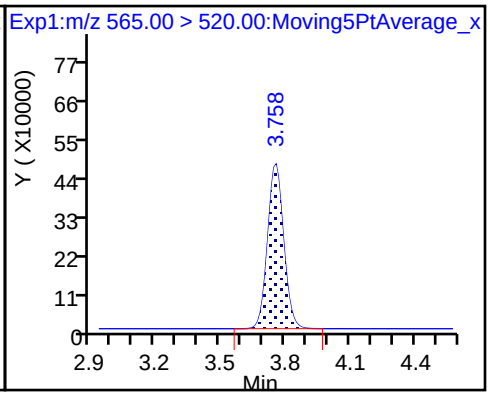
29 Perfluorodecane Sulfonic acid



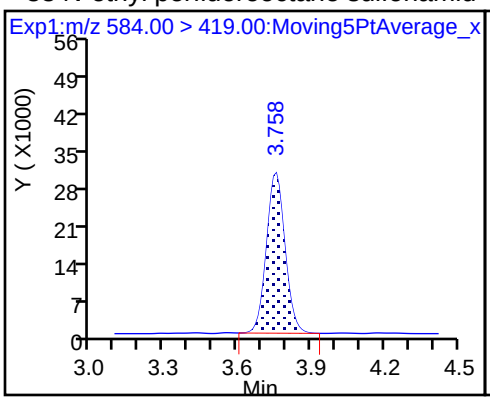
D 32 d5-NEtFOSAA



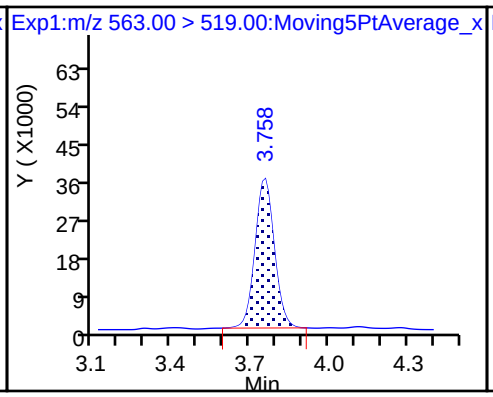
D 30 13C2 PFUnA



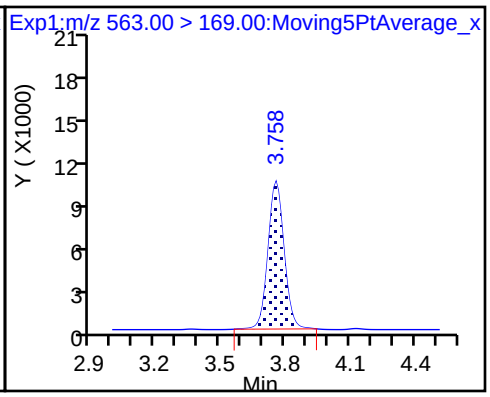
33 N-ethyl perfluorooctane sulfonamid



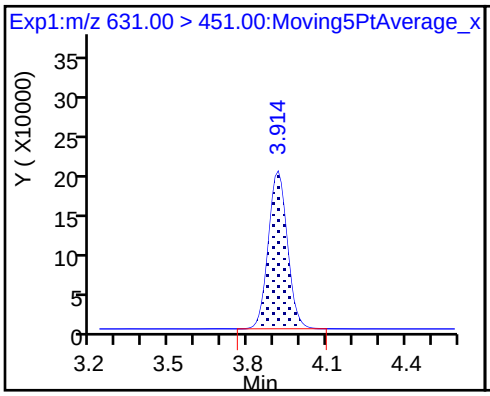
31 Perfluoroundecanoic acid



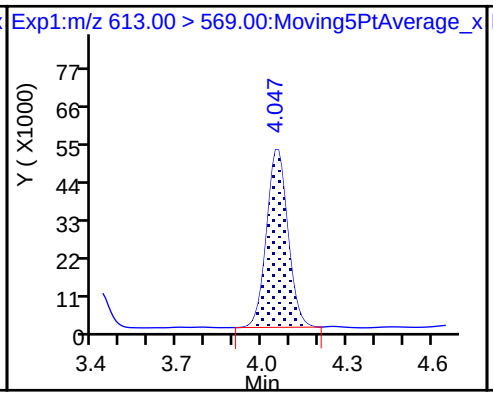
31 Perfluoroundecanoic acid



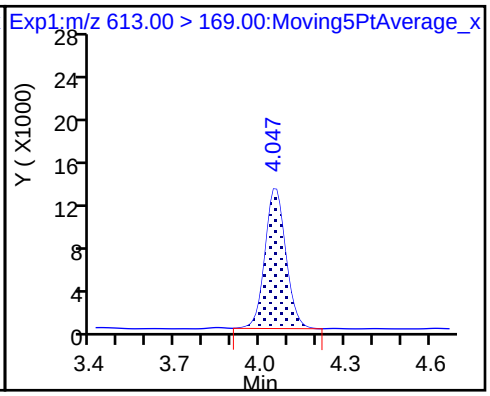
66 11-Chloroeicosafluoro-3-oxaundecan



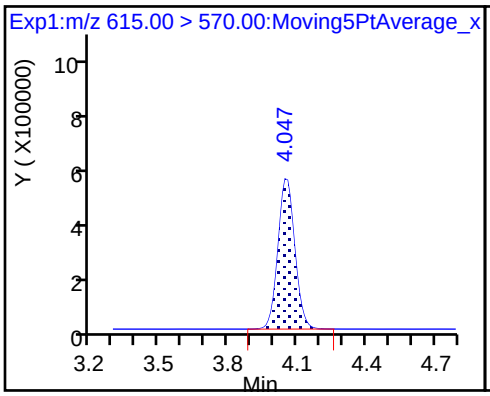
37 Perfluorododecanoic acid



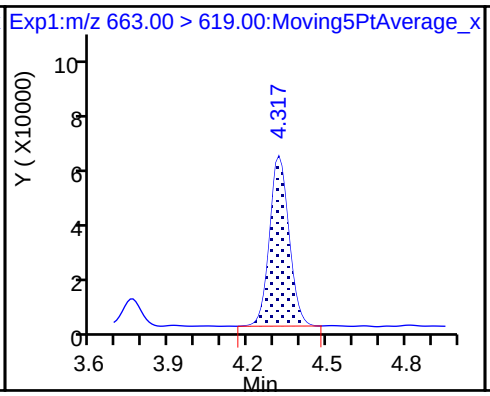
37 Perfluorododecanoic acid



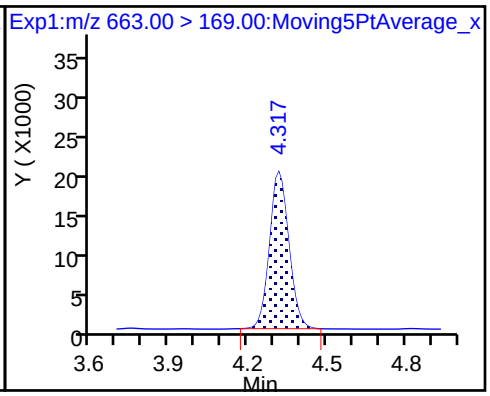
D 36 13C2 PFDoA



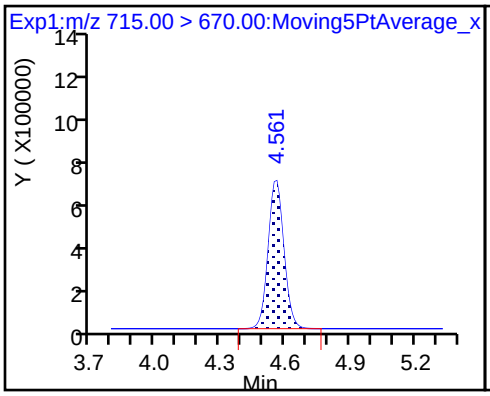
41 Perfluorotridecanoic acid



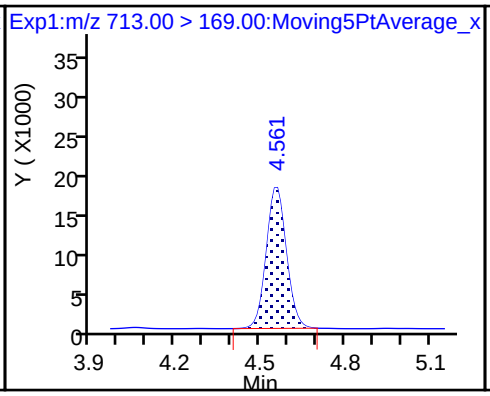
41 Perfluorotridecanoic acid



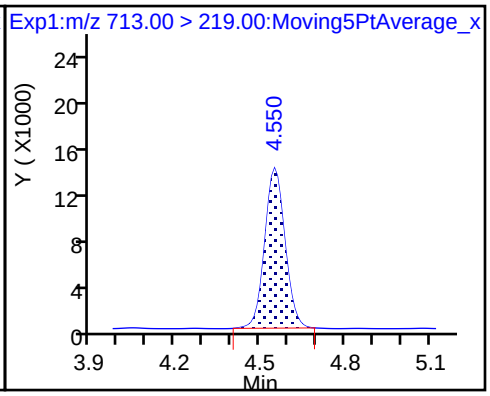
D 43 13C2-PFTeDA



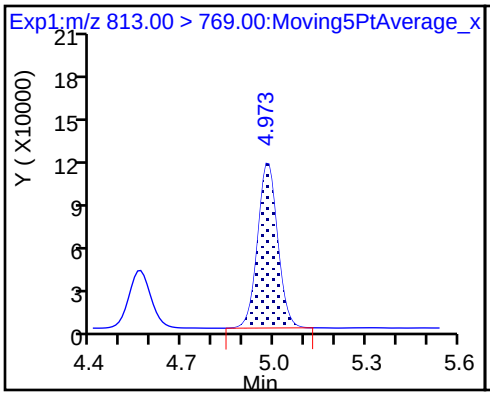
42 Perfluorotetradecanoic acid



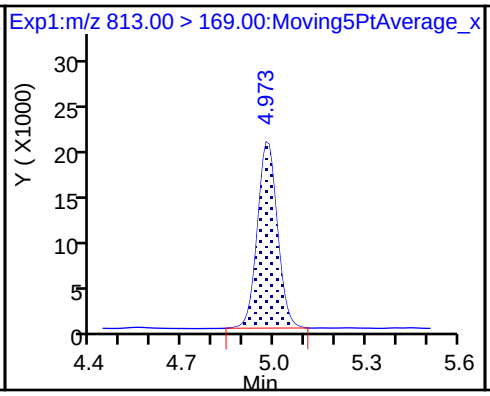
42 Perfluorotetradecanoic acid



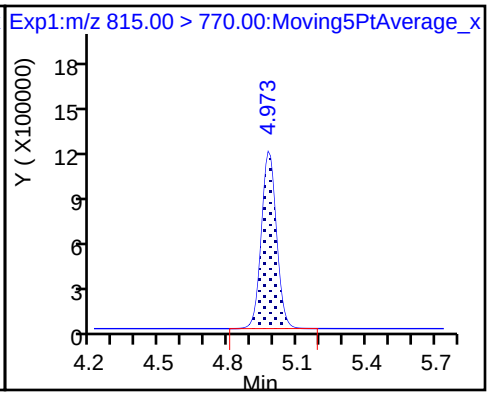
45 Perfluorohexadecanoic acid



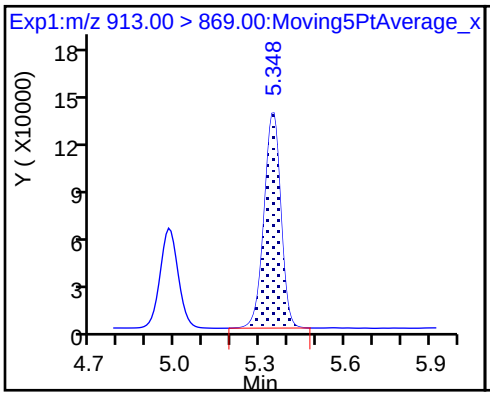
45 Perfluorohexadecanoic acid



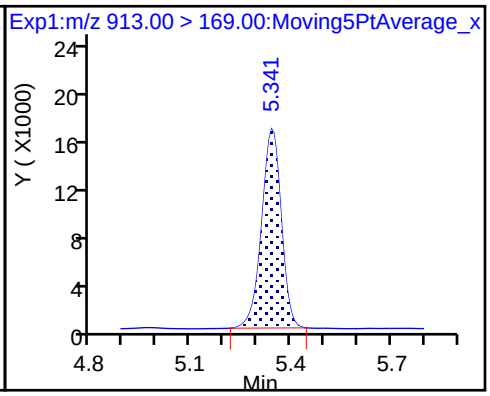
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 29-Mar-2018 17:50:50 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:47:56 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 11:39:05

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.439	1.436	0.003	1.000	6326878	2.53		101	66086	
2 Perfluorobutyric acid										
212.90 > 169.00	1.439	1.437	0.002	1.000	2290620	0.9794		97.9	809	
D 3 13C5-PFPeA										
267.90 > 223.00	1.698	1.702	-0.004	0.555	4176477	2.57		103	116353	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.707	1.706	0.001	1.005	1931372	0.9659		96.6	805	
D 47 13C3-PFBS										
301.90 > 83.00	1.734	1.738	-0.004	1.000	90179	2.42		104	608	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.743	1.742	0.001	1.005	2631669	0.8600		97.3	1869	
298.90 > 99.00	1.743	1.742	0.001	1.005	1083923		2.43(1.25-3.74)	97.3	1759	
D 60 M2-4:2FTS										
329.00 > 81.00	1.956	1.955	0.001	1.000	663350	2.33		99.9	9283	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.955	0.001	1.000	566727	0.8468		90.7	34287	
D 7 13C2 PFHxA										
315.00 > 270.00	1.988	1.991	-0.002	1.000	4494490	2.51		100	133459	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.988	1.992	-0.004	1.000	1763768	0.9587		95.9	2454	
313.00 > 119.00	1.988	1.992	-0.004	1.000	174575		10.10(5.03-15.10)	95.9	1944	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.011	2.013	-0.002	1.000	2554091	0.9248		98.6	56514	
349.00 > 99.00	2.011	2.013	-0.002	1.000	949421		2.69(1.36-4.07)	98.6	24112	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.092	-0.002	1.000	282149	0.9074		90.7	2501	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.092	-0.002	1.000	228536	2.56		102	4106	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.326	0.003	1.000	4235886	2.46		98.4	78022	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.327	0.002	1.000	1808460	0.9823		98.2	1774	
363.00 > 169.00	2.329	2.327	0.002	1.000	676071		2.67(1.13-3.40)	98.2	1853	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.342	2.339	0.003	1.000	1978319	0.7926		87.1	8809	
399.00 > 99.00	2.342	2.339	0.003	1.000	679646		2.91(1.50-4.49)	87.1	3957	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.340	0.002	1.000	5285294	2.46		104	74091	
65 Adona										
377.00 > 251.00	2.369	2.372	-0.003	1.000	5648777	1.02		102	75524	
377.00 > 85.00	2.369	2.372	-0.003	1.000	3138221		1.80(0.84-2.53)	102	54318	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.666	2.664	0.002	1.000	617577	0.8304		87.6	3087	
D 12 M2-6:2FTS										
429.00 > 81.00	2.666	2.664	0.002	1.000	945777	2.38		100	27031	
D 14 13C4 PFOA										
417.00 > 372.00	2.688	2.688	0.0	1.000	4302583	2.54		102	91031	
* 62 13C2-PFOA										
415.00 > 370.00	2.688	2.689	-0.001		4517618	2.50			95988	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.688	2.690	-0.002	1.000	1868120	0.9154		91.5	659	
413.00 > 169.00	2.688	2.690	-0.002	1.000	971134		1.92(0.84-2.52)	91.5	3751	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.696	2.695	0.001	1.000	1907896	0.9225		96.9	34296	
449.00 > 99.00	2.696	2.695	0.001	1.000	526708		3.62(1.94-5.82)	96.9	12171	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.059	3.060	-0.001	1.000	1463610	0.8254		88.9	3157	
499.00 > 99.00	3.059	3.060	-0.001	1.000	340322		4.30(2.31-6.93)	88.9	3568	
D 18 13C4 PFOS										
503.00 > 80.00	3.059	3.060	-0.001	1.000	3709075	2.49		104	36433	
D 19 13C5 PFNA										
468.00 > 423.00	3.059	3.061	-0.002	1.000	3594883	2.51		100	66385	
20 Perfluorononanoic acid										
463.00 > 419.00	3.059	3.064	-0.005	1.000	1464985	0.99		99.0	1530	
463.00 > 169.00	3.059	3.064	-0.005	1.000	357225		4.10(1.90-5.69)	99.0	12362	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.273	3.272	0.001	1.000	2643424	0.9109		97.7	30685	
D 21 13C8 FOSA										
506.00 > 78.00	3.389	3.388	0.001	1.000	5326321	2.53		101	62884	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.389	3.389	0.0	1.000	2096455	1.00		99.6	44671	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.408	3.409	-0.001	1.000	1129121	0.9075		94.5	33891	
549.00 > 99.00	3.408	3.409	-0.001	1.000	441645		2.56(1.33-3.97)	94.5	13287	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.417	3.413	0.004	1.000	1069323	2.31		96.5	30865	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.417	3.415	0.002	1.000	564315	0.9371		97.8	6369	
D 23 13C2 PFDA										
515.00 > 470.00	3.426	3.423	0.003	1.000	3033191	2.51		100	42271	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.426	3.427	-0.001	1.000	1176291	0.9800		98.0	5989	
513.00 > 169.00	3.426	3.427	-0.001	1.000	221055		5.32(2.36-7.09)	98.0	9212	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.575	3.578	-0.003	1.000	1643657	2.54		102	32778	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.586	3.581	0.005	1.003	637079	0.9192		91.9	4973	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.741	3.738	0.003	1.000	1004519	0.9329		96.8	24501	
599.00 > 99.00	3.741	3.738	0.003	1.000	323257		3.11(1.39-4.16)	96.8	12606	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.751	3.749	0.002	1.000	1794427	2.64		106	4050	
D 30 13C2 PFUnA										
565.00 > 520.00	3.751	3.753	-0.002	1.000	2514905	2.55		102	44805	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.751	3.755	-0.004	1.000	621160	0.9436		94.4	8623	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.751	3.755	-0.004	1.000	761440	0.9434		94.3	3964	
563.00 > 169.00	3.751	3.755	-0.004	1.000	200870		3.79(2.12-6.36)	94.3	9833	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.908	3.910	-0.002	1.000	4214763	0.9357		99.3	70271	
D 36 13C2 PFDoA										
615.00 > 570.00	4.051	4.052	-0.001	1.000	2827344	2.57		103	21719	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.051	4.052	-0.001	1.000	1132386	0.9264		92.6	925	
613.00 > 169.00	4.051	4.052	-0.001	1.000	273090		4.15(2.13-6.40)	92.6	6755	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.318	4.316	0.002	1.000	1266253	0.9685		96.9	540	
663.00 > 169.00	4.318	4.316	0.002	1.000	420300		3.01(1.25-3.76)	96.9	6383	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.553	4.558	-0.005	1.000	366508	1.03		103	5270	
713.00 > 219.00	4.553	4.558	-0.005	1.000	262673		1.40(0.71-2.13)	103	6532	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.553	4.558	-0.005	1.000	3577558	2.56		102	21734	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.975	4.977	-0.002	1.000	5422645	2.51		101	15201	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.975	4.977	-0.002	1.000	2020619	0.9625		96.2	475	
813.00 > 169.00	4.975	4.977	-0.002	1.000	343500		5.88(2.86-8.58)	96.2	3339	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.344	5.344	0.0	1.000	2132452	0.99		99.0	350	
913.00 > 169.00	5.344	5.344	0.0	1.000	278856		7.65(3.83-11.48)	99.0	3135	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_005.d

Injection Date: 29-Mar-2018 17:50:50 Instrument ID: A8_N

Lims ID: IC L4 Full

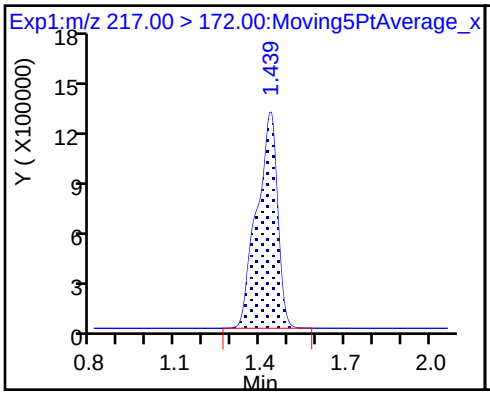
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

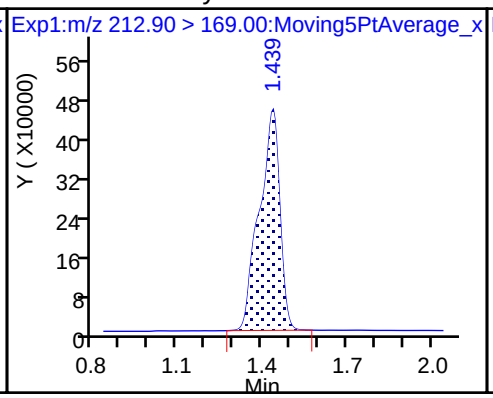
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

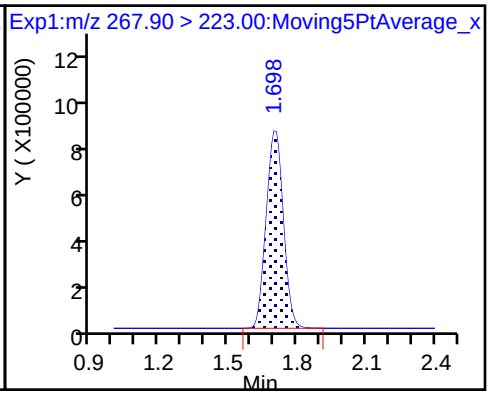
D 1 13C4 PFBA



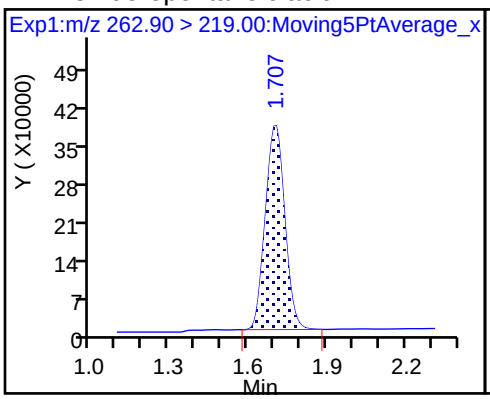
2 Perfluorobutyric acid



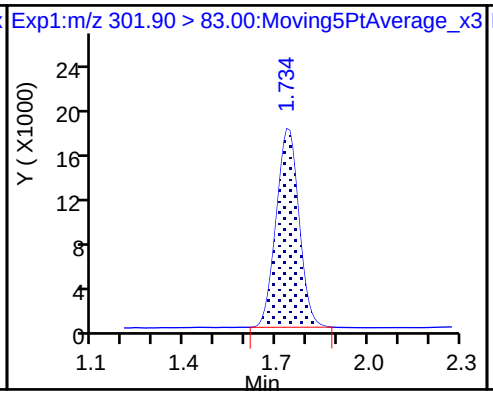
D 3 13C5-PFPeA



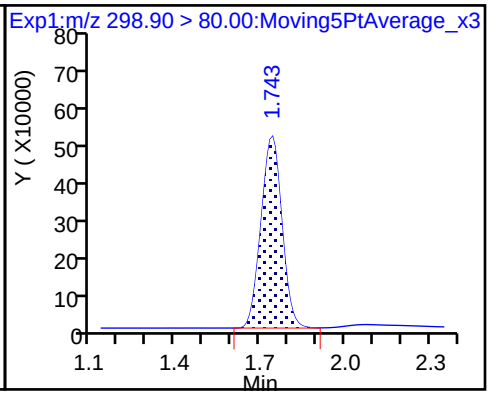
4 Perfluoropentanoic acid



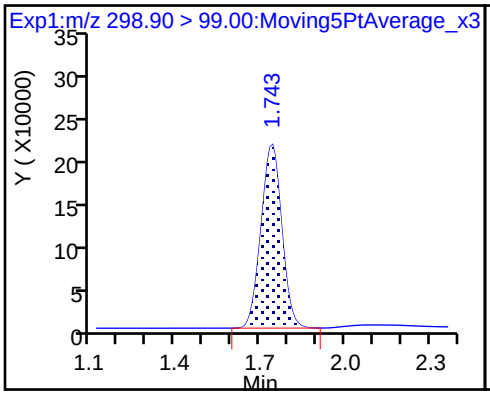
D 47 13C3-PFBS



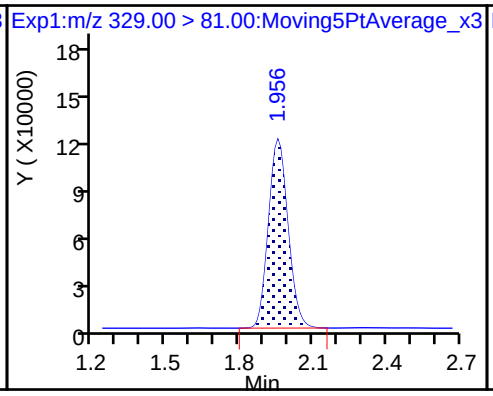
5 Perfluorobutanesulfonic acid



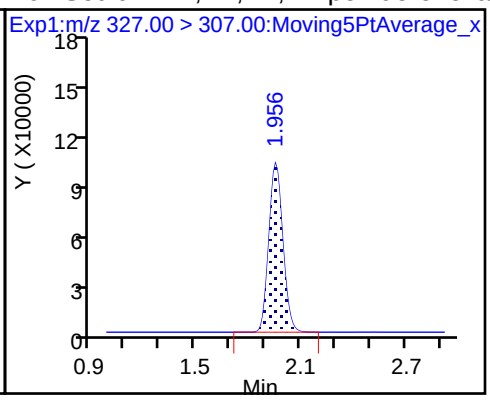
5 Perfluorobutanesulfonic acid



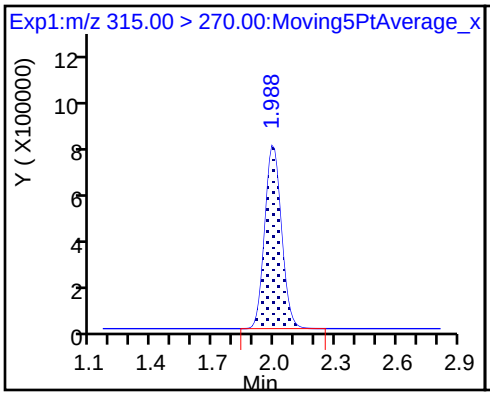
D 60 M2-4:2FTS



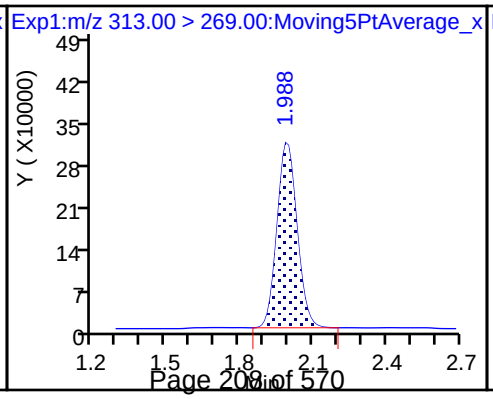
61 Sodium 1H,1H,2H,2H-perfluorohexane



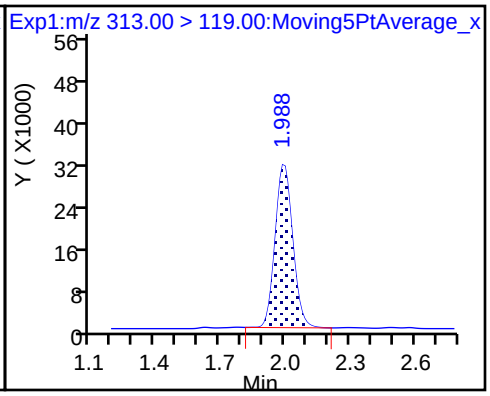
D 7 13C2 PFHxA



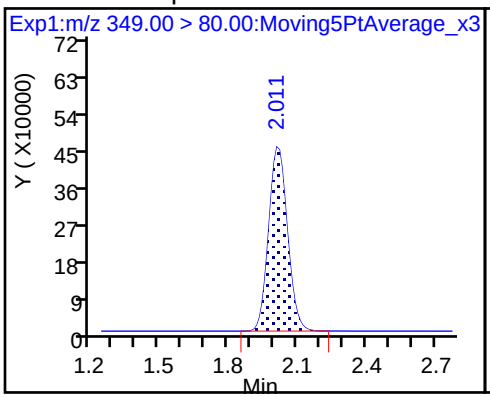
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid



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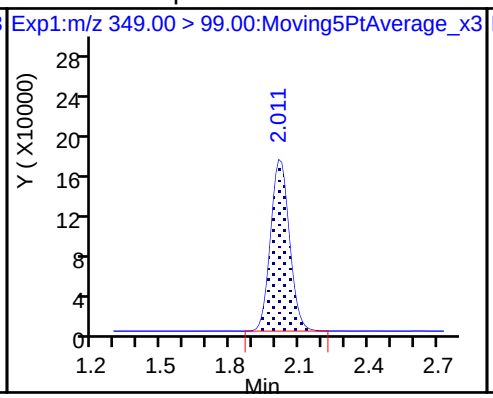
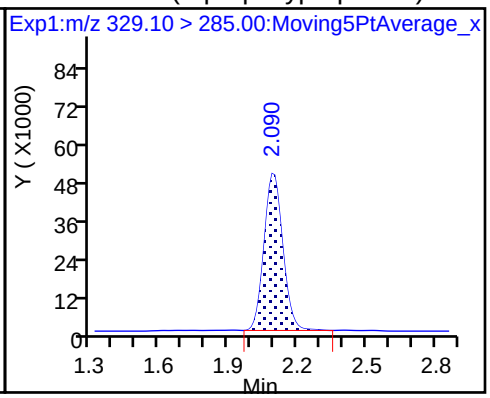
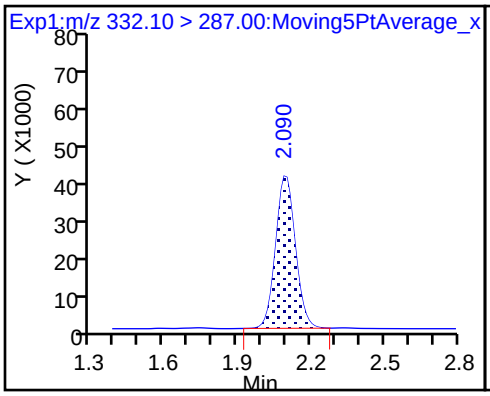


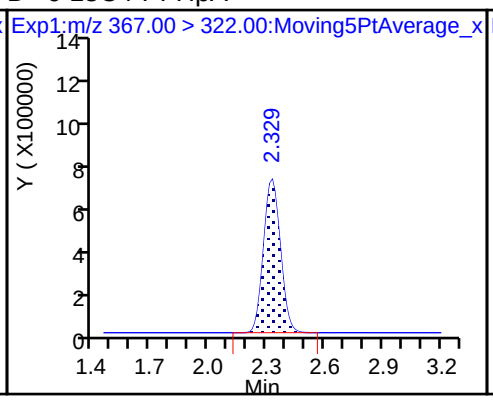
67 Perfluoro(2-propoxypropanoic) acid



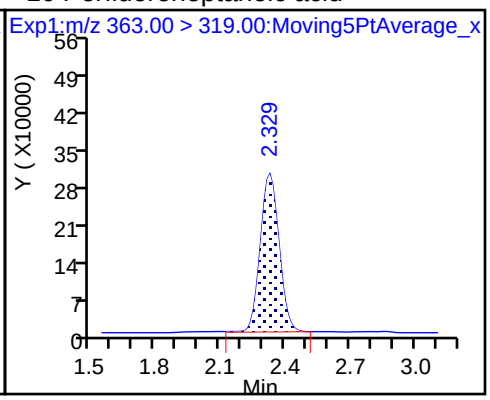
D 64 13C3 HFPO-DA



D 9 13C4-PFHpA



10 Perfluoroheptanoic acid



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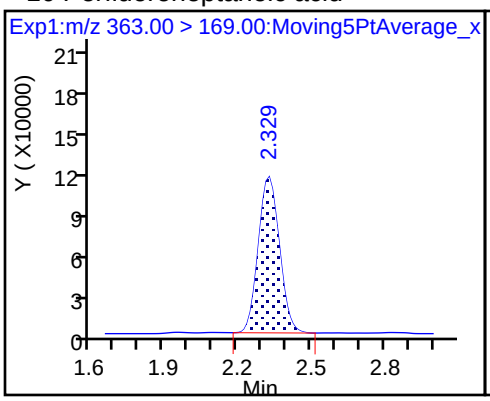
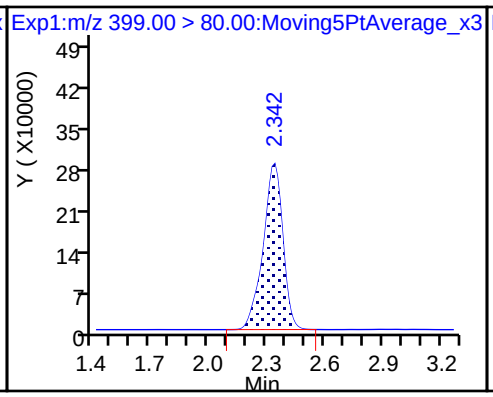


8 Perfluorohexanesulfonic acid



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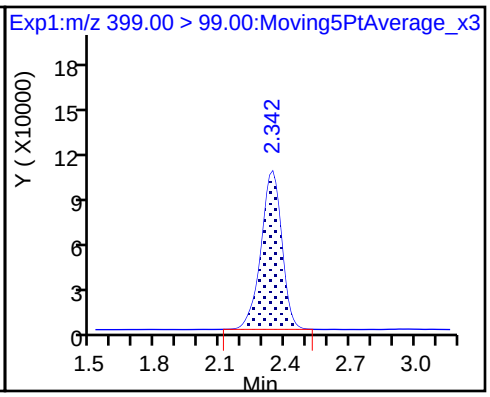
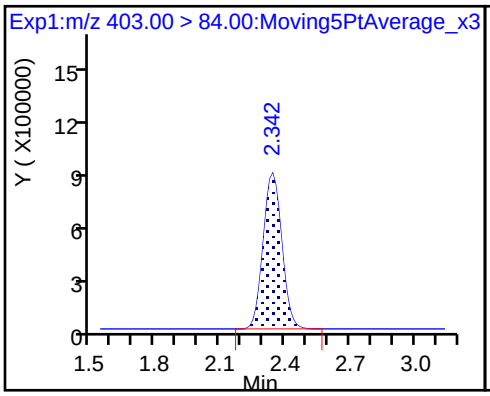
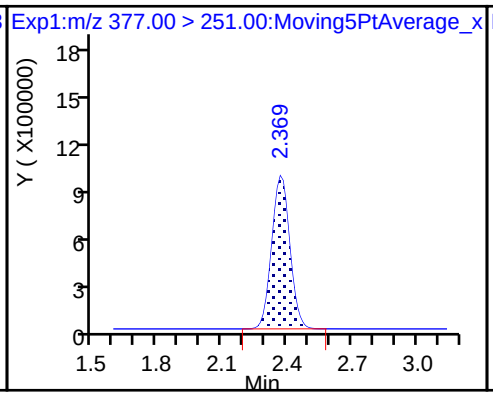


D 11 18O2 PFHxS



65 Adona



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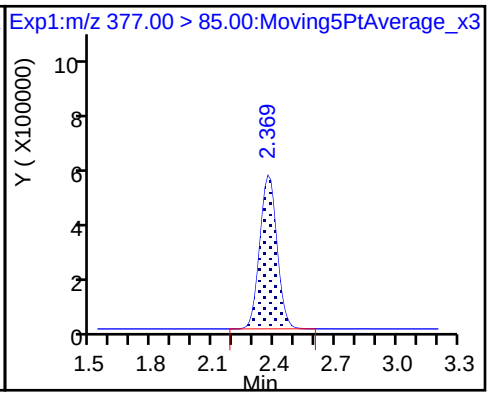
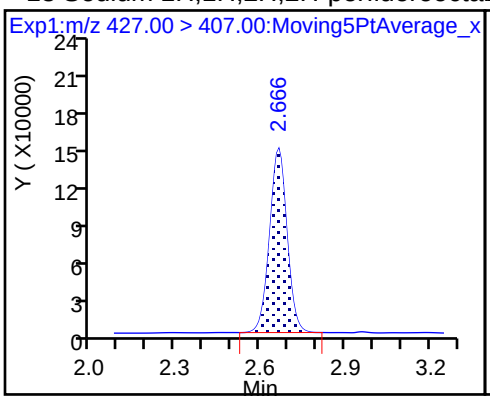
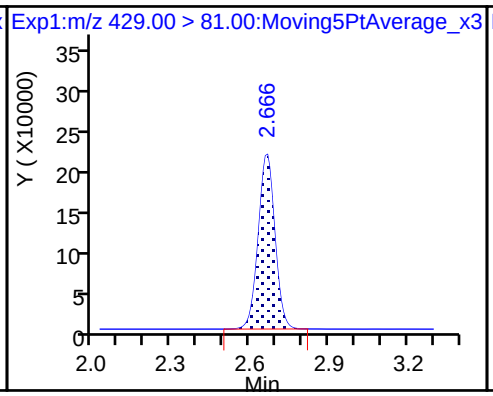


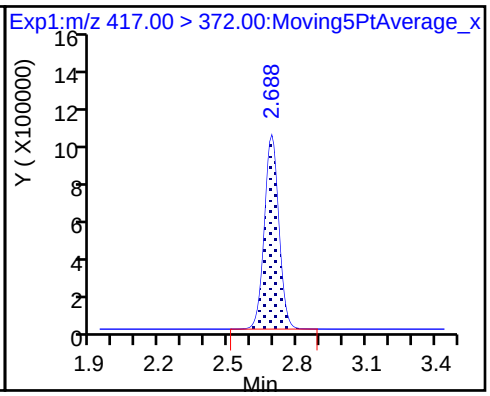
13 Sodium 1H,1H,2H,2H-perfluorooctane



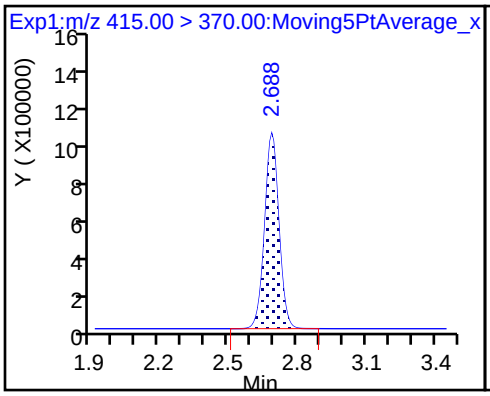
D 12 M2-6:2FTS



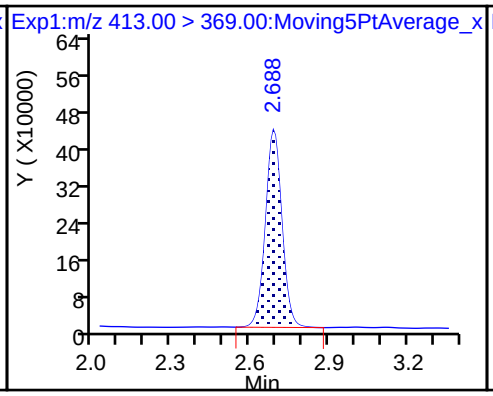
D 14 13C4 PFOA



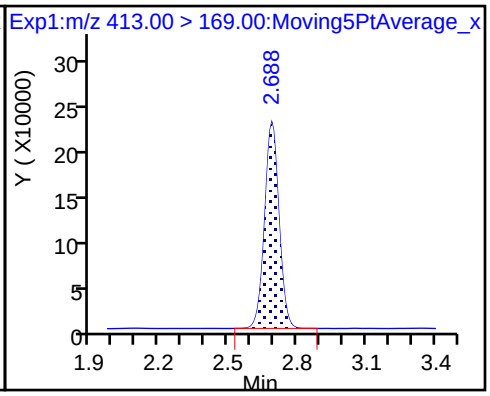
* 62 13C2-PFOA



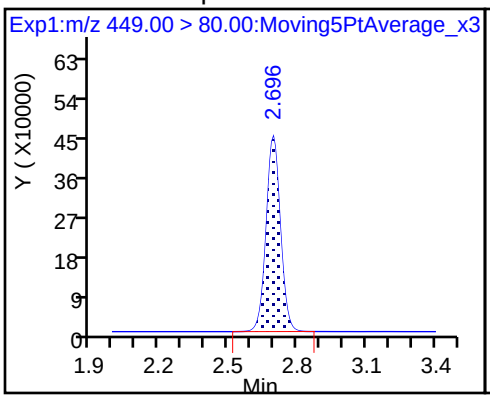
15 Perfluorooctanoic acid



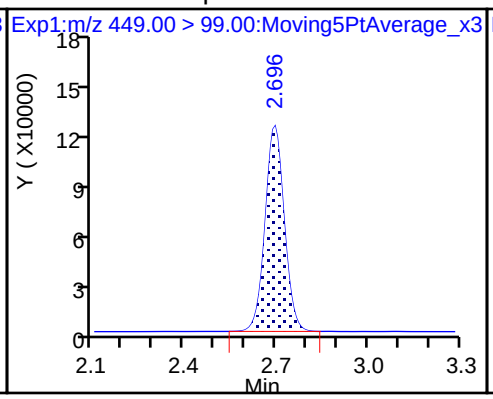
15 Perfluorooctanoic acid



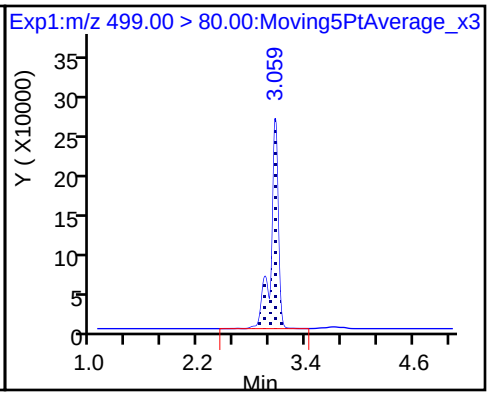
16 Perfluoroheptanesulfonic acid



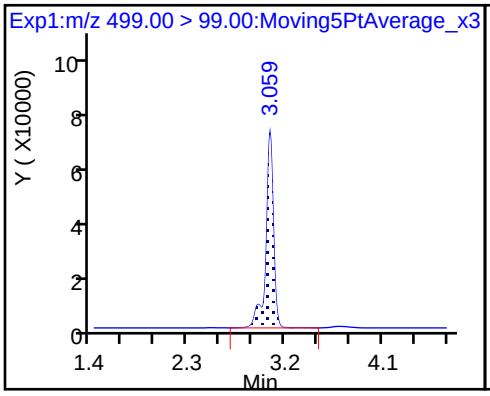
16 Perfluoroheptanesulfonic acid



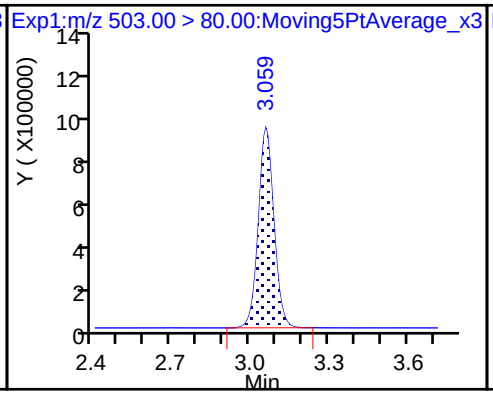
17 Perfluorooctane sulfonic acid



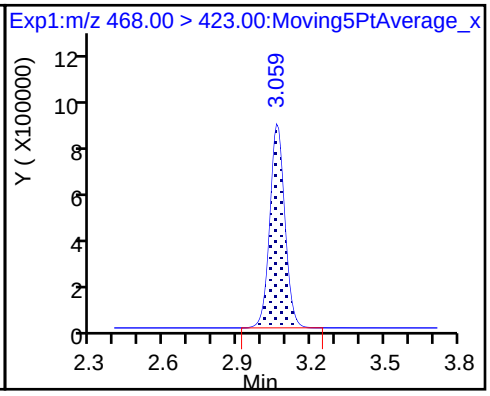
17 Perfluorooctane sulfonic acid



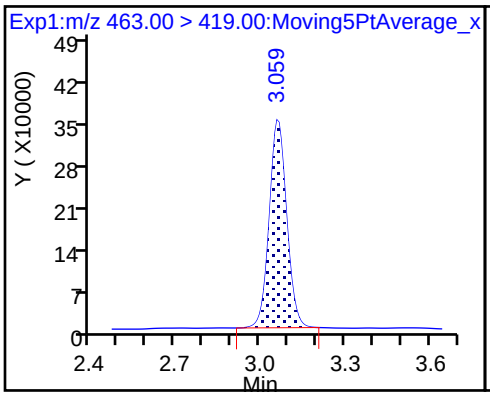
D 18 13C4 PFOS



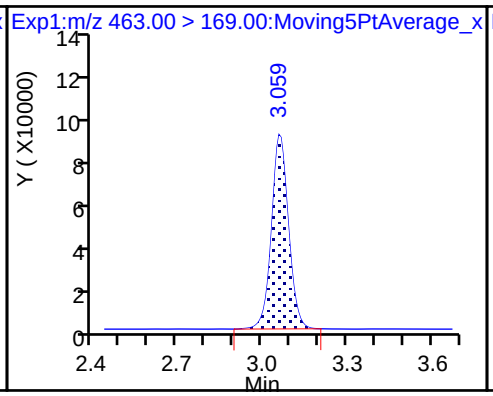
D 19 13C5 PFNA



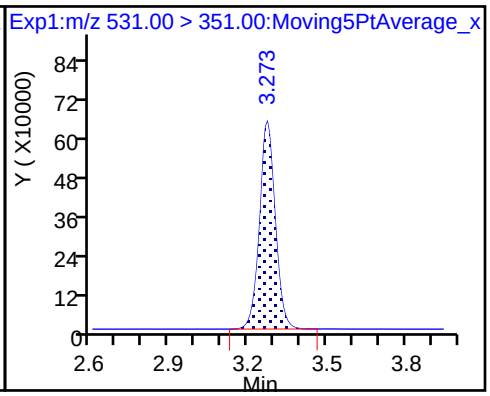
20 Perfluorononanoic acid



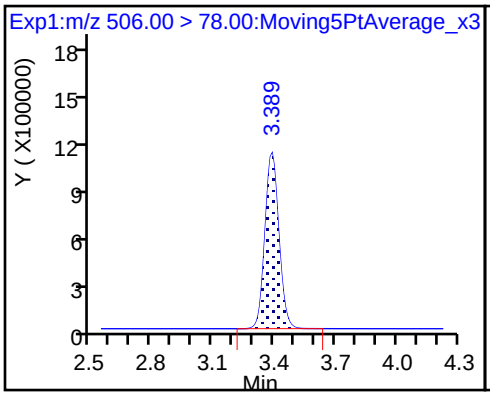
20 Perfluorononanoic acid



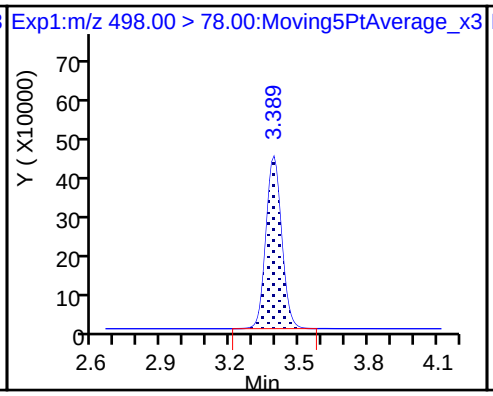
69 9-Chlorohexadecafluoro-3-oxanonane



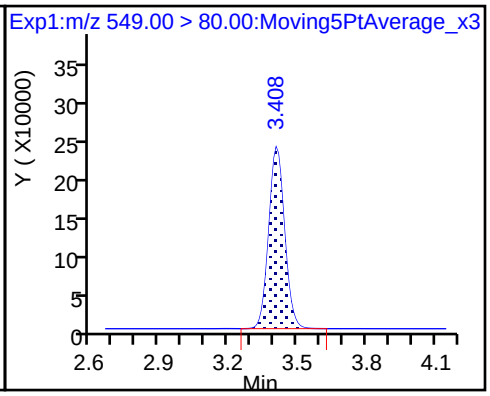
D 21 13C8 FOSA



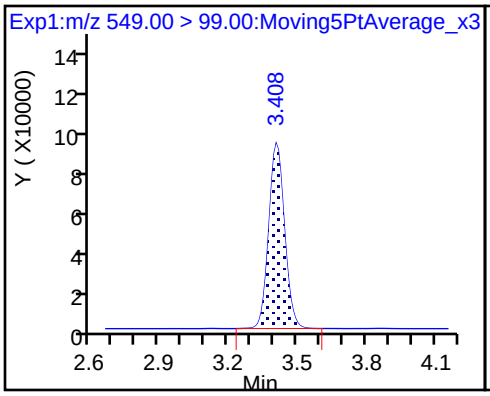
22 Perfluorooctane Sulfonamide



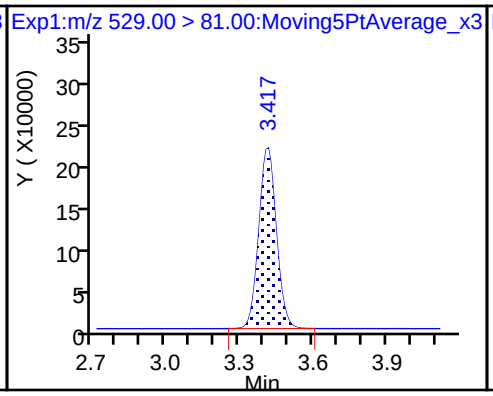
68 Perfluorononanesulfonic acid



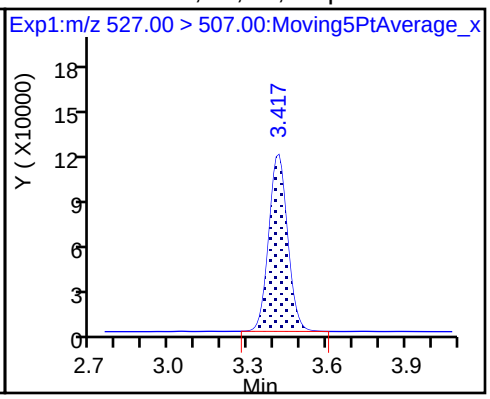
68 Perfluorononanesulfonic acid



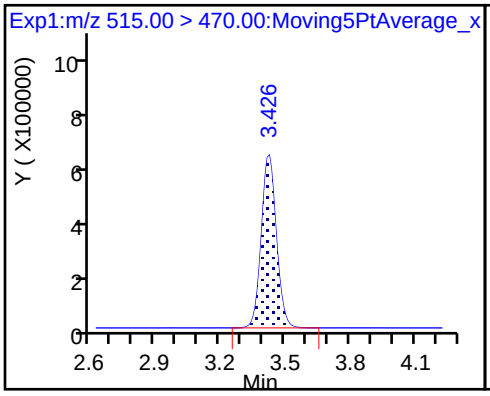
D 26 M2-8:2FTS



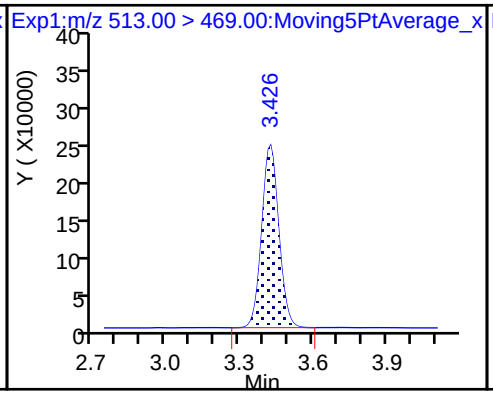
25 Sodium 1H,1H,2H,2H-perfluorodecane



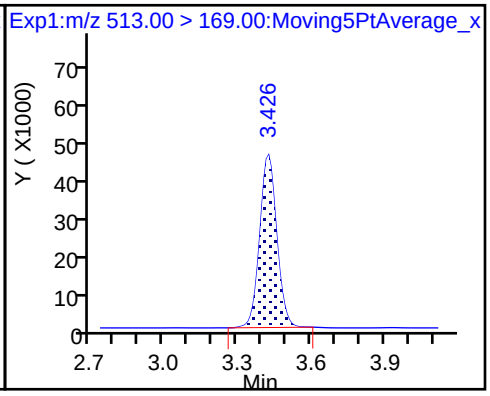
D 23 13C2 PFDA



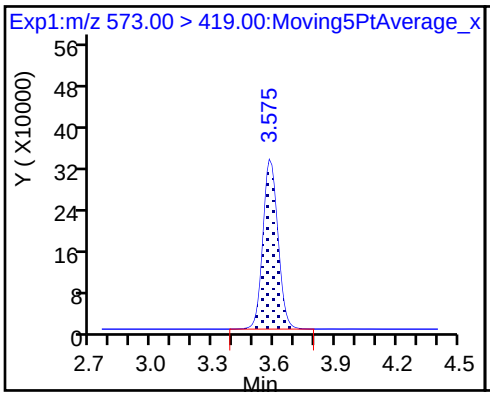
24 Perfluorodecanoic acid



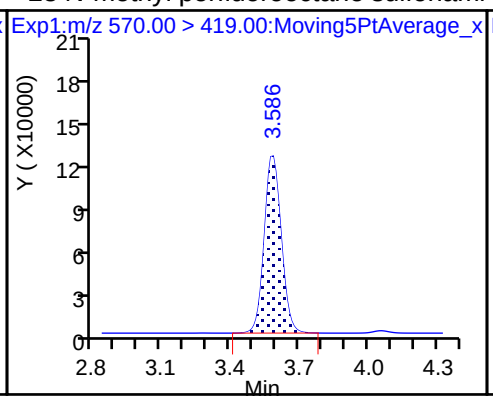
24 Perfluorodecanoic acid



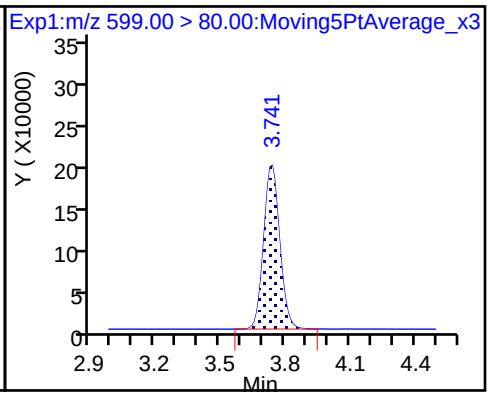
D 27 d3-NMeFOSAA



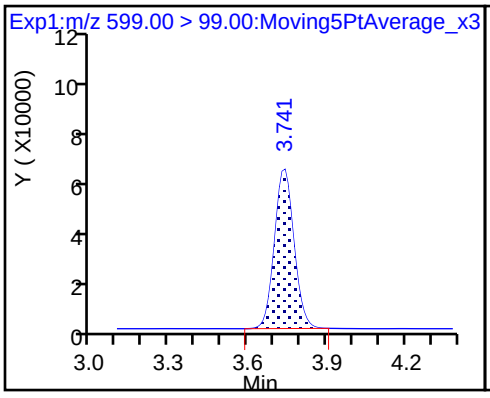
28 N-methyl perfluorooctane sulfonami



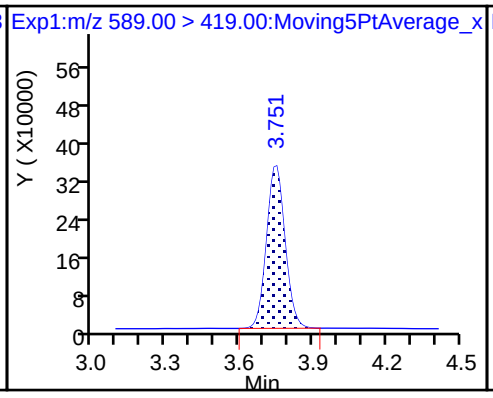
29 Perfluorodecane Sulfonic acid



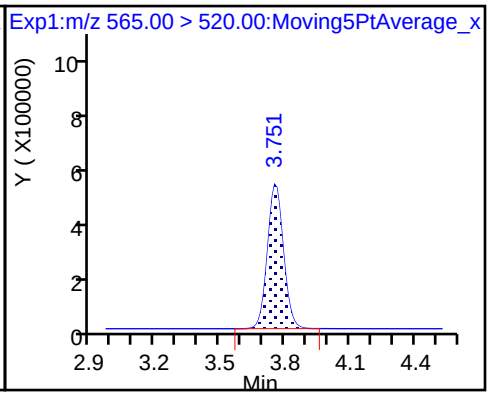
29 Perfluorodecane Sulfonic acid



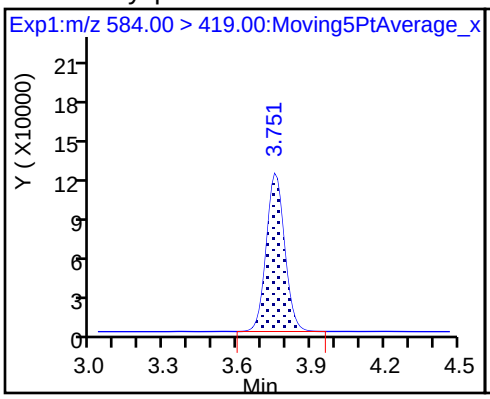
D 32 d5-NEtFOSAA



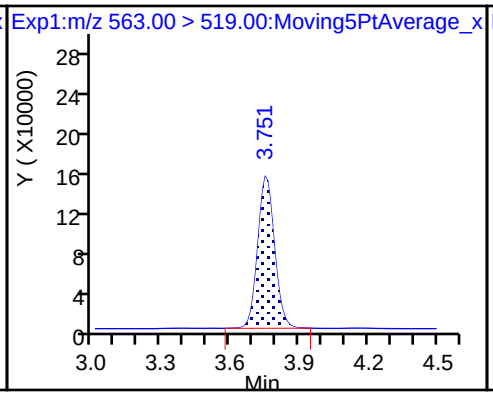
D 30 13C2 PFUnA



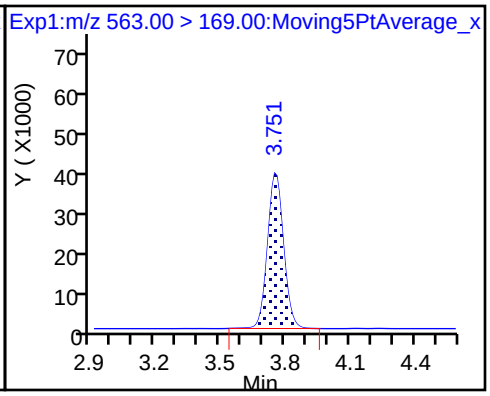
33 N-ethyl perfluorooctane sulfonamid



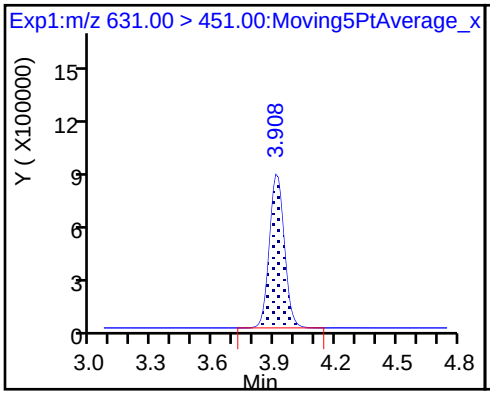
31 Perfluoroundecanoic acid



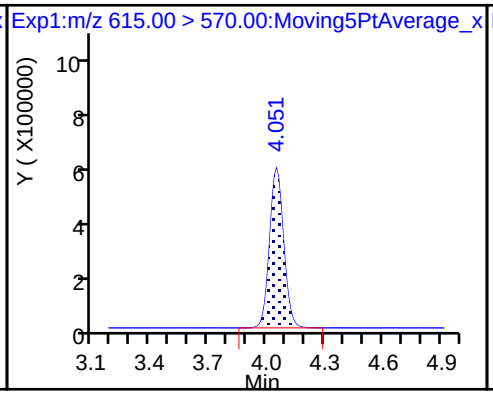
31 Perfluoroundecanoic acid



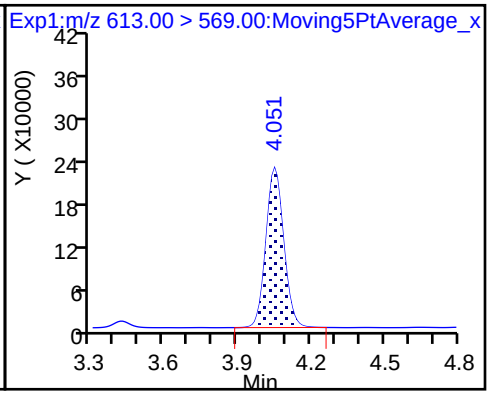
66 11-Chloroeicosafluoro-3-oxaundecan



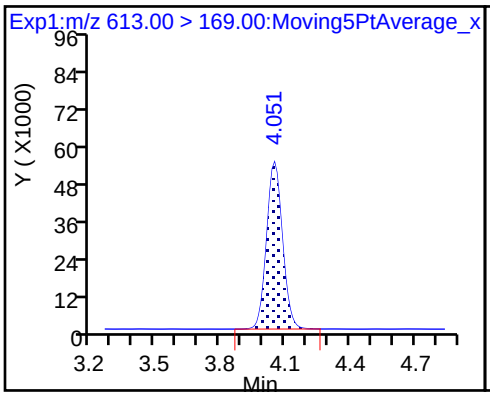
D 36 13C2 PFDoA



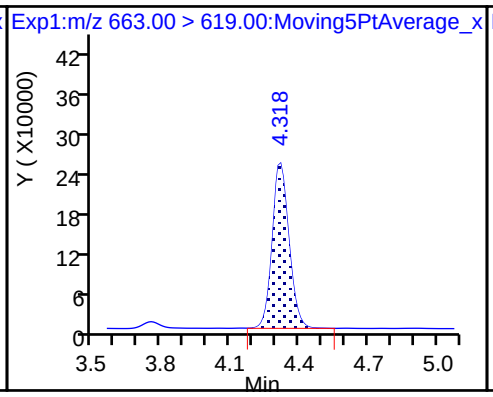
37 Perfluorododecanoic acid



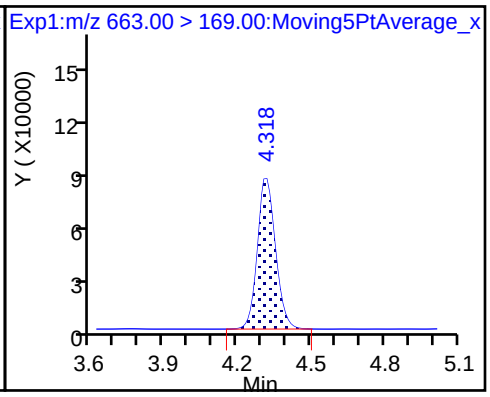
37 Perfluorododecanoic acid



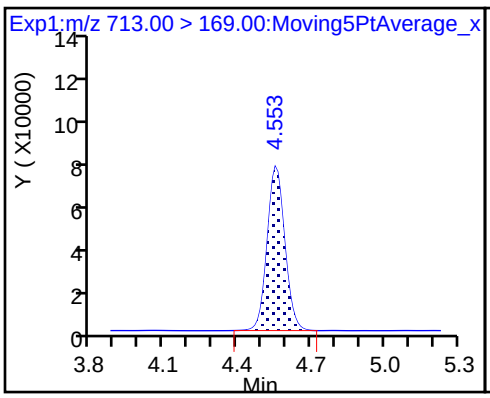
41 Perfluorotridecanoic acid



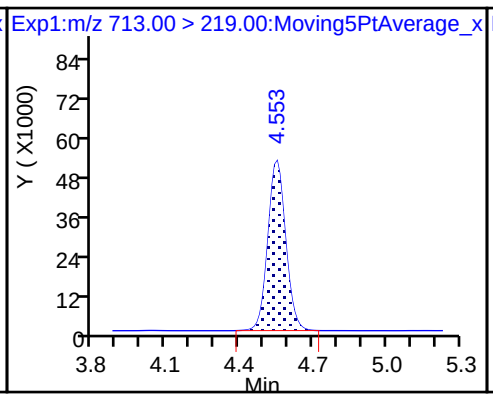
41 Perfluorotridecanoic acid



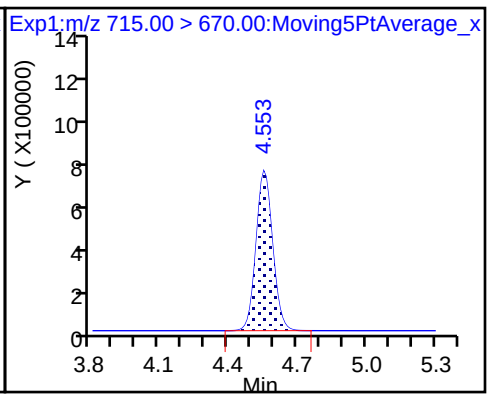
42 Perfluorotetradecanoic acid



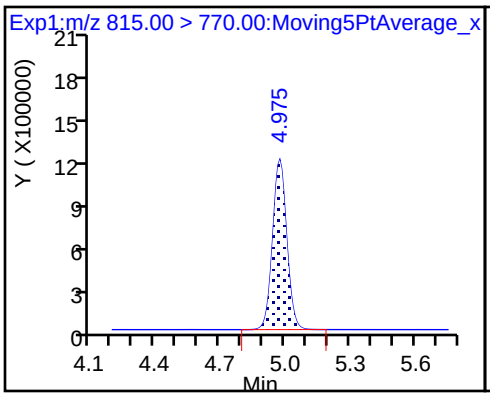
42 Perfluorotetradecanoic acid



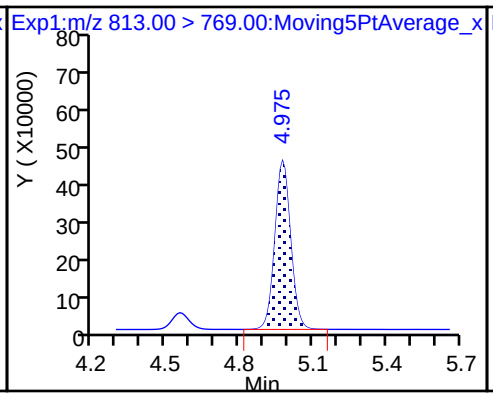
D 43 13C2-PFTeDA



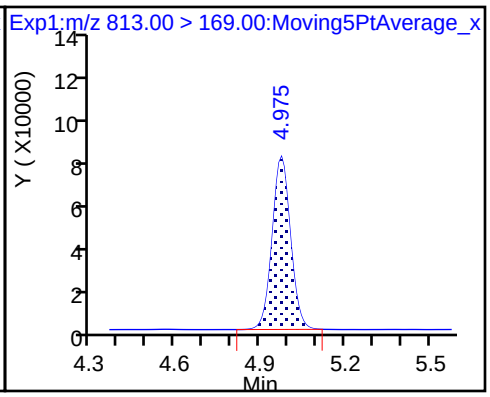
D 44 13C2-PFHxDA



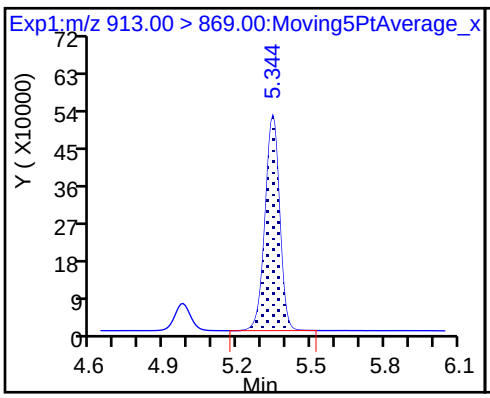
45 Perfluorohexadecanoic acid



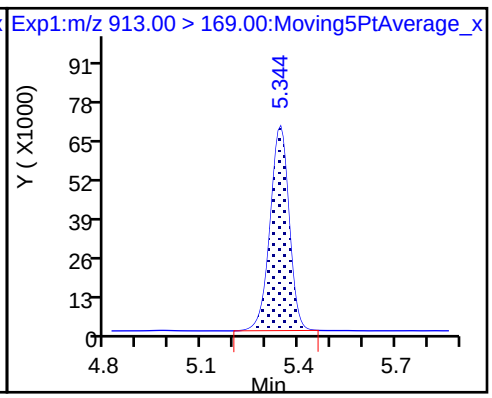
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Mar-2018 17:58:39 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:48:09 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 09:09:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.441	1.436	0.005	1.000	6030203	2.48		99.1	62199	
2 Perfluorobutyric acid										
212.90 > 169.00	1.441	1.437	0.004	1.000	5777307	2.59		104	3457	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.702	0.010	0.559	3998575	2.52		101	86313	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.706	0.006	1.000	4732902	2.47		98.9	2193	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.738	0.001	1.000	82172	2.26		97.4	490	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.748	1.742	0.006	1.005	6580985	2.36		107	4397	
298.90 > 99.00	1.748	1.742	0.006	1.005	2674887		2.46(1.25-3.74)	107	4035	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.960	1.955	0.005	1.000	1487518	2.44		104	90099	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.955	0.005	1.000	669149	2.41		103	7608	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.003	1.000	4449369	2.55		102	111826	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.992	0.001	1.000	4676733	2.57		103	6804	
313.00 > 119.00	1.993	1.992	0.001	1.000	417474		11.20(5.03-15.10)	103	4326	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.013	0.003	1.000	6467251	2.57		110	114345	
349.00 > 99.00	2.016	2.013	0.003	1.000	2239567		2.89(1.36-4.07)	110	49101	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.092	0.003	1.000	231658	2.66		107	4075	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.092	0.003	1.000	729503	2.31		92.6	6426	
D 9 13C4-PFHpA										
367.00 > 322.00	2.334	2.326	0.008	1.000	4131012	2.46		98.4	76582	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.334	2.327	0.007	1.000	4677284	2.61		104	3860	
363.00 > 169.00	2.334	2.327	0.007	1.000	1694031		2.76(1.13-3.40)	104	5125	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.347	2.339	0.008	1.000	5288566	2.32		102	18242	
399.00 > 99.00	2.347	2.339	0.008	1.000	1735055		3.05(1.50-4.49)	102	9372	
D 11 18O2 PFHxS										
403.00 > 84.00	2.347	2.340	0.007	1.000	4833301	2.31		97.6	73949	
65 Adona										
377.00 > 251.00	2.372	2.372	0.0	1.000	14240170	2.79		111	190651	
377.00 > 85.00	2.372	2.372	0.0	1.000	8381192		1.70(0.84-2.53)	111	86770	
D 12 M2-6:2FTS										
429.00 > 81.00	2.667	2.664	0.003	1.000	884202	2.28		95.9	24949	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.667	2.664	0.003	1.000	1539946	2.21		93.5	5122	
D 14 13C4 PFOA										
417.00 > 372.00	2.690	2.688	0.002	1.000	4168394	2.53		101	64136	
* 62 13C2-PFOA										
415.00 > 370.00	2.690	2.689	0.001		4403513	2.50			72111	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.697	2.690	0.007	1.003	4758293	2.41		96.3	1602	
413.00 > 169.00	2.690	2.690	0.0	1.000	2531080		1.88(0.84-2.52)	96.3	10234	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.697	2.695	0.002	1.000	4696005	2.46		103	51596	
449.00 > 99.00	2.697	2.695	0.002	1.000	1300851		3.61(1.94-5.82)	103	23065	
D 18 13C4 PFOS										
503.00 > 80.00	3.063	3.060	0.003	1.000	3426212	2.36		98.6	31614	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.063	3.060	0.003	1.000	3738022	2.28		98.4	8399	
499.00 > 99.00	3.063	3.060	0.003	1.000	845589		4.42(2.31-6.93)	98.4	6210	
D 19 13C5 PFNA										
468.00 > 423.00	3.063	3.061	0.002	1.000	3540108	2.53		101	84407	
20 Perfluorononanoic acid										
463.00 > 419.00	3.070	3.064	0.006	1.002	3675243	2.52		101	3854	
463.00 > 169.00	3.063	3.064	-0.001	1.000	916459		4.01(1.90-5.69)	101	23909	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.277	3.272	0.005	1.000	6465289	2.41		104	57970	
D 21 13C8 FOSA										
506.00 > 78.00	3.394	3.388	0.006	1.000	5134426	2.50		100.0	38523	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.394	3.389	0.005	1.000	5273555	2.60		104	65764	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.413	3.409	0.004	1.000	2797665	2.43		101	66092	
549.00 > 99.00	3.413	3.409	0.004	1.000	1086732		2.57(1.33-3.97)	101	32886	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.413	0.0	1.000	1054813	2.34		97.6	30965	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.415	-0.002	1.000	1404701	2.36		98.7	16955	
D 23 13C2 PFDA										
515.00 > 470.00	3.422	3.423	-0.001	1.000	2988519	2.53		101	34662	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.432	3.427	0.005	1.003	2995028	2.53		101	18233	
513.00 > 169.00	3.432	3.427	0.005	1.003	534907		5.60(2.36-7.09)	101	12381	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.582	3.578	0.004	1.000	1585449	2.51		100	34638	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.582	3.581	0.001	1.000	1647643	2.46		98.6	11941	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.737	3.738	-0.001	1.000	2358750	2.37		98.4	65020	
599.00 > 99.00	3.737	3.738	-0.001	1.000	855317		2.76(1.39-4.16)	98.4	33383	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.749	-0.002	1.000	1675412	2.53		101	3712	
D 30 13C2 PFUnA										
565.00 > 520.00	3.758	3.753	0.005	1.000	2409033	2.50		100	42492	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.755	0.003	1.003	1542349	2.51		100	26985	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.758	3.755	0.003	1.000	1901518	2.46		98.4	8013	
563.00 > 169.00	3.758	3.755	0.003	1.000	507139		3.75(2.12-6.36)	98.4	24360	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.916	3.910	0.006	1.000	10377874	2.49		106	103580	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.059	4.052	0.007	1.000	2927481	2.52		101	2194	
613.00 > 169.00	4.059	4.052	0.007	1.000	732103		4.00(2.13-6.40)	101	11010	
D 36 13C2 PFDoA										
615.00 > 570.00	4.059	4.052	0.007	1.000	2684707	2.50		100	18257	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.318	4.316	0.002	1.000	3245349	2.61		105	1291	
663.00 > 169.00	4.318	4.316	0.002	1.000	1056833		3.07(1.25-3.76)	105	17392	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.563	4.558	0.005	1.000	3484985	2.56		102	22350	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.563	4.558	0.005	1.000	884583	2.54		102	13447	
713.00 > 219.00	4.553	4.558	-0.005	0.998	623379		1.42(0.71-2.13)	102	11224	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.983	4.977	0.006	1.000	5398203	2.53		101	1240	
813.00 > 169.00	4.983	4.977	0.006	1.000	886265		6.09(2.86-8.58)	101	6550	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.983	4.977	0.006	1.000	5578235	2.65		106	15602	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.350	5.344	0.006	1.000	5719746	2.58		103	885	
913.00 > 169.00	5.350	5.344	0.006	1.000	729616		7.84(3.83-11.48)	103	5795	

Reagents:

LCPFC_LL5_00004 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:48:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_006.d

Injection Date: 29-Mar-2018 17:58:39 Instrument ID: A8_N

Lims ID: IC L5 Full

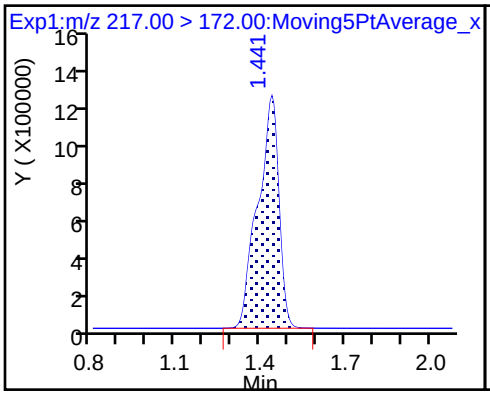
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

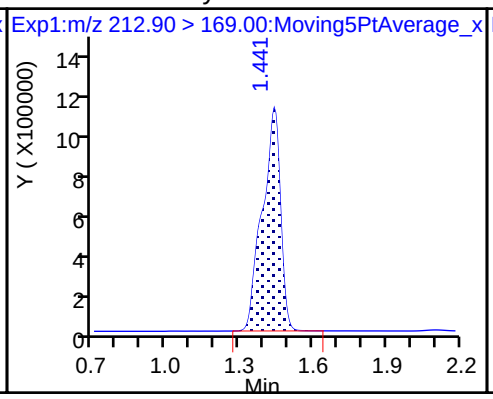
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

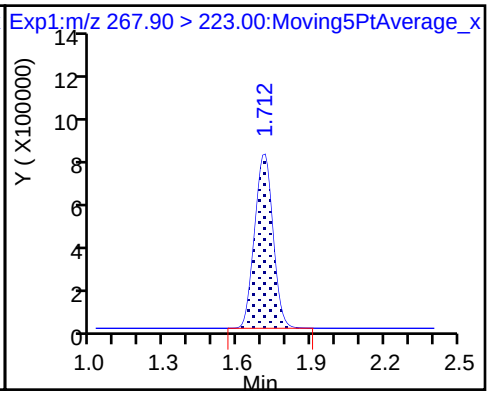
D 1 13C4 PFBA



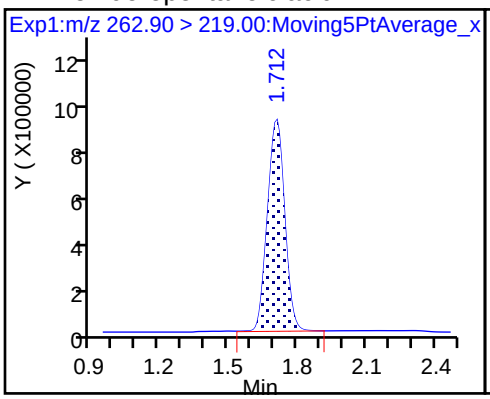
2 Perfluorobutyric acid



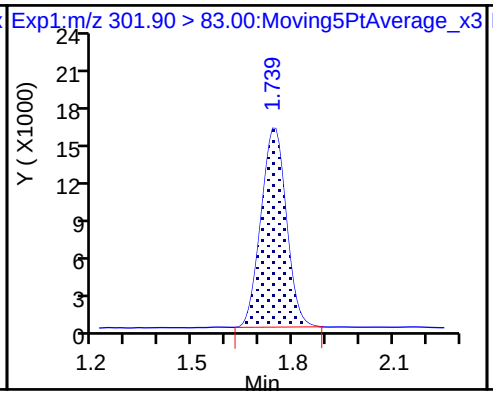
D 3 13C5-PFPeA



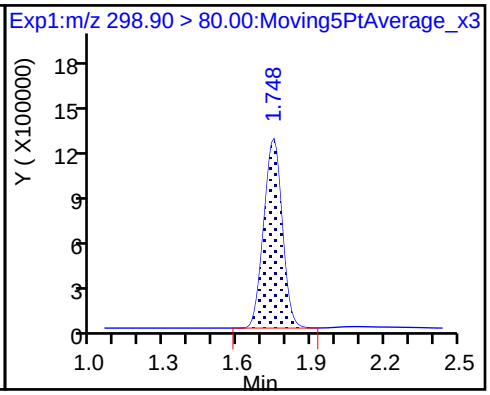
4 Perfluoropentanoic acid



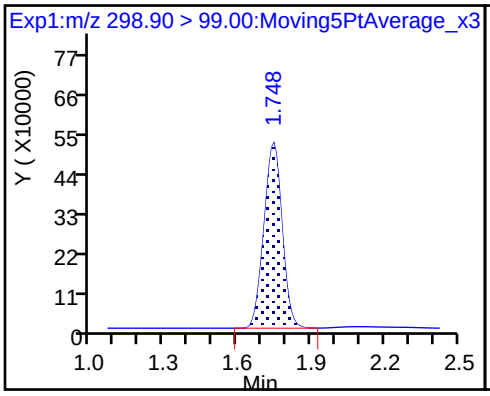
D 47 13C3-PFBS



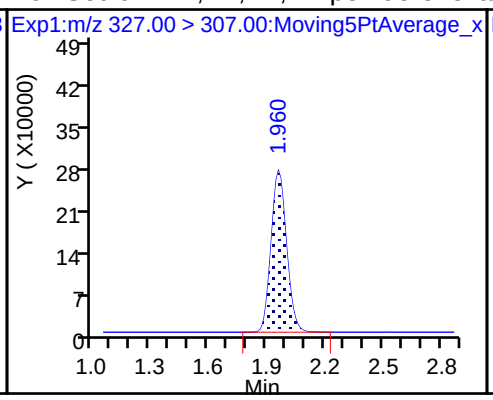
5 Perfluorobutanesulfonic acid



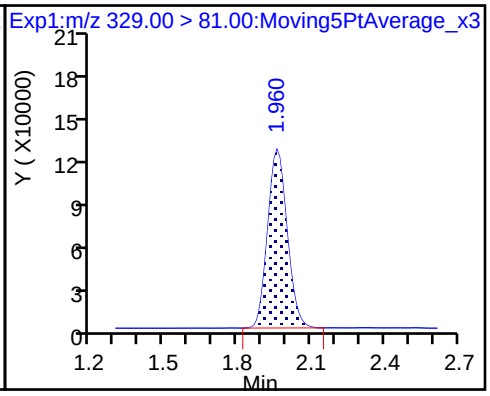
5 Perfluorobutanesulfonic acid



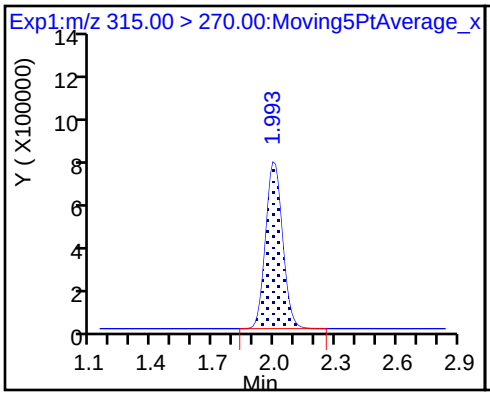
61 Sodium 1H,1H,2H,2H-perfluorohexane



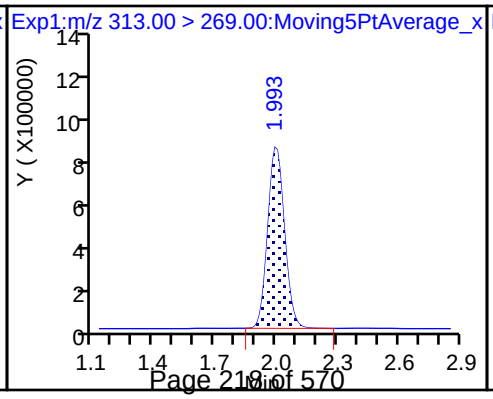
D 60 M2-4:2FTS



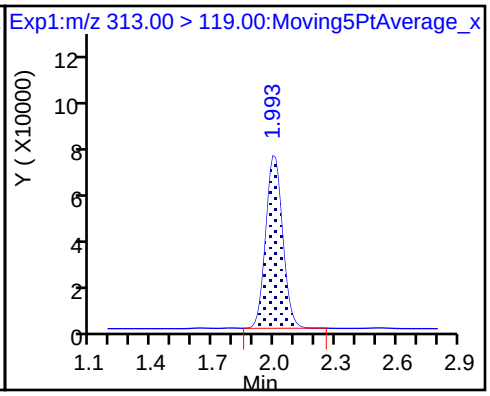
D 7 13C2 PFHxA



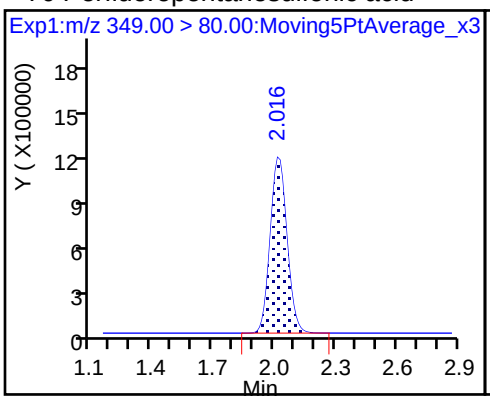
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid



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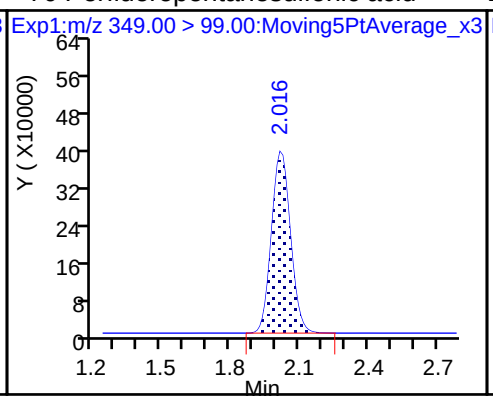
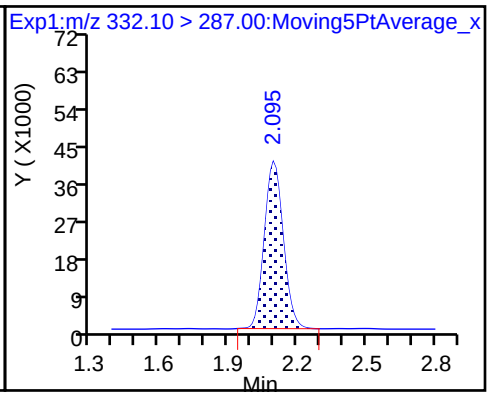
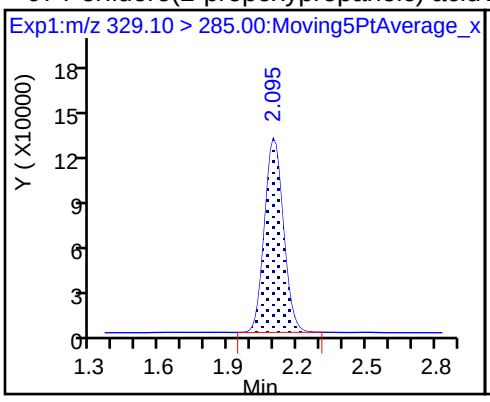


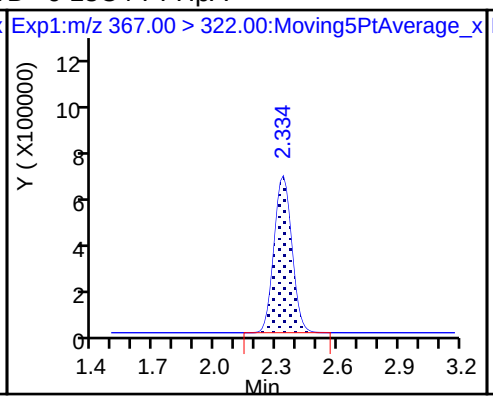
D 64 13C3 HFPO-DA



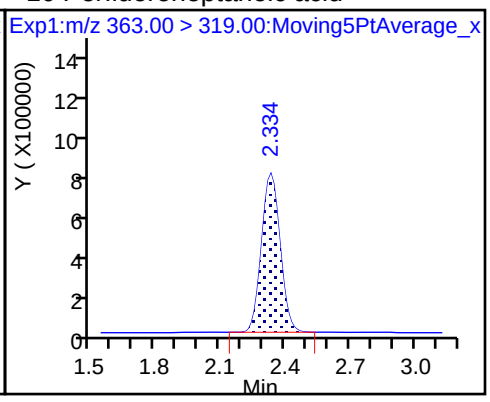
67 Perfluoro(2-propoxypropanoic) acid



D 9 13C4-PFHpA



10 Perfluoroheptanoic acid



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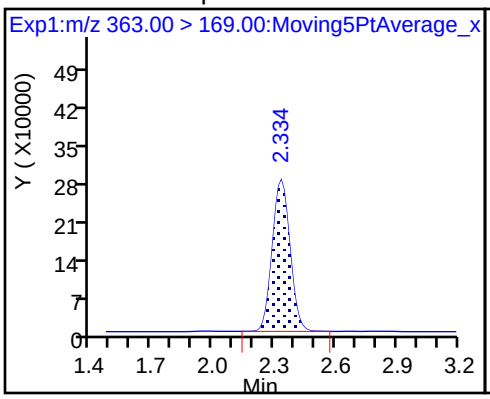
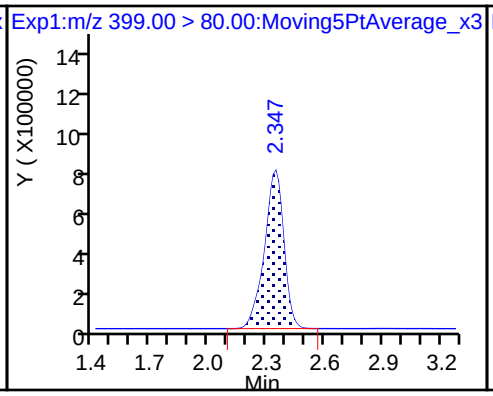


8 Perfluorohexanesulfonic acid



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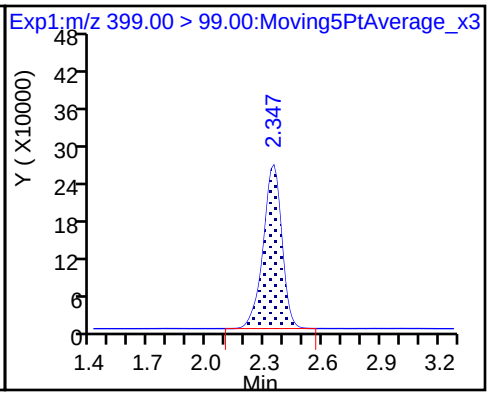
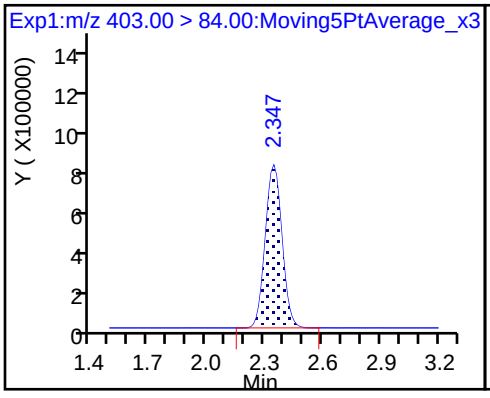
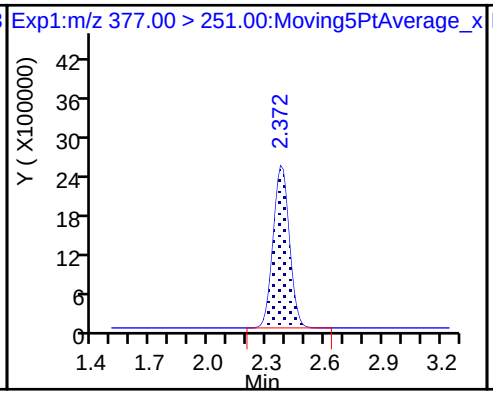


D 11 18O2 PFHxS



65 Adona



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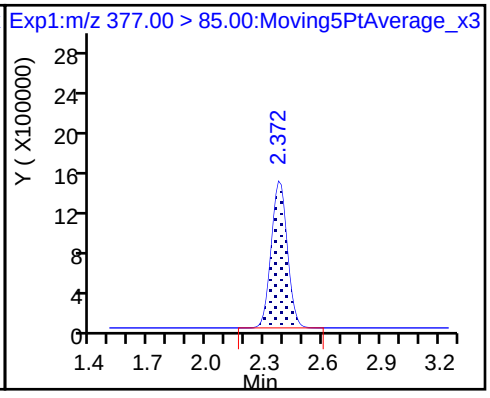
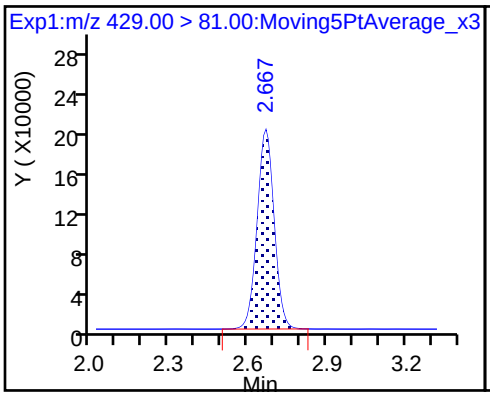
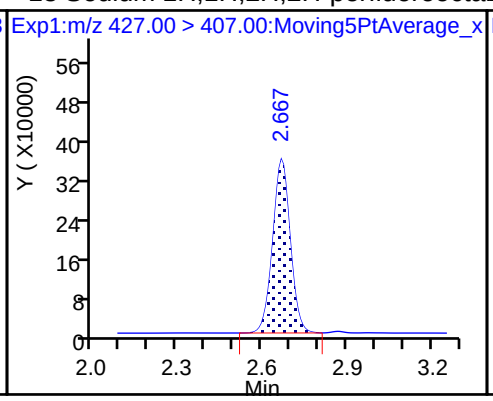


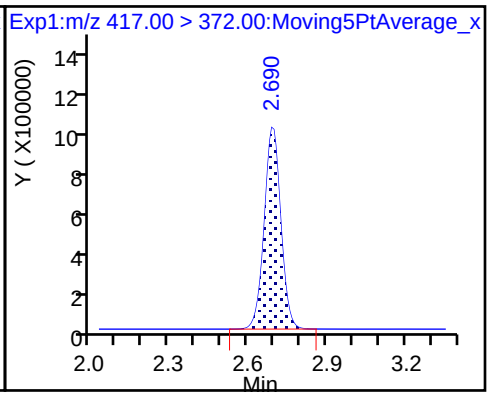
D 12 M2-6:2FTS



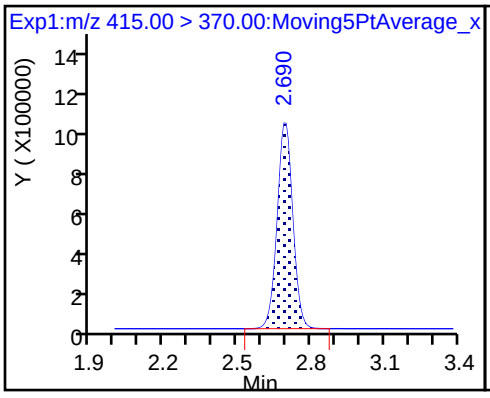
13 Sodium 1H,1H,2H,2H-perfluorooctane



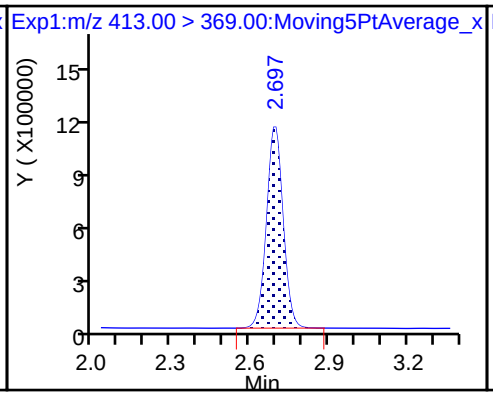
D 14 13C4 PFOA



* 62 13C2-PFOA



15 Perfluorooctanoic acid



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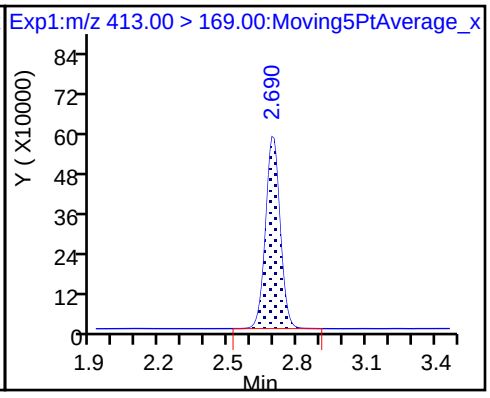
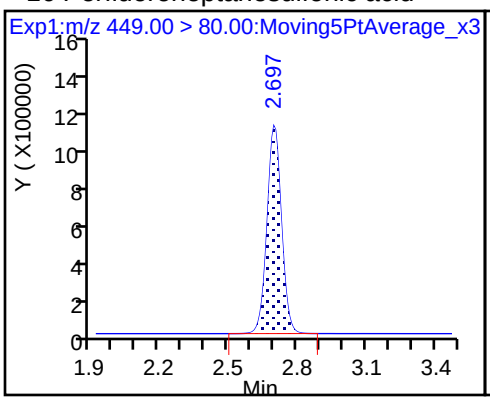
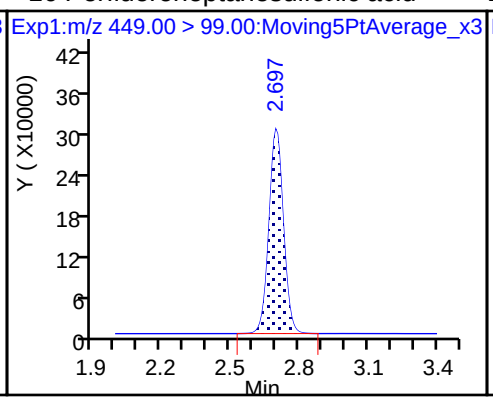


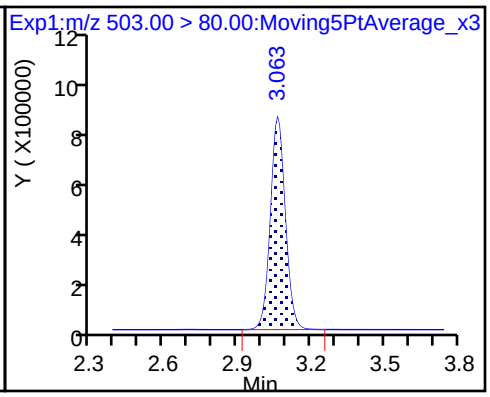
16 Perfluoroheptanesulfonic acid



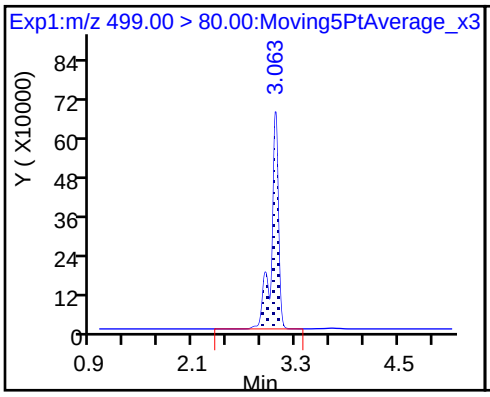
16 Perfluoroheptanesulfonic acid



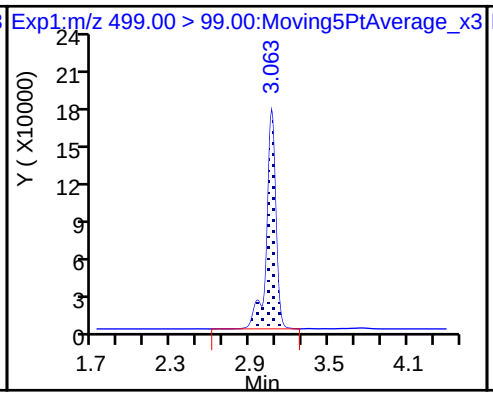
D 18 13C4 PFOS



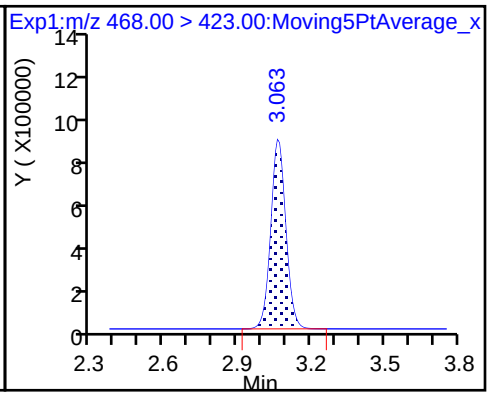
17 Perfluorooctane sulfonic acid



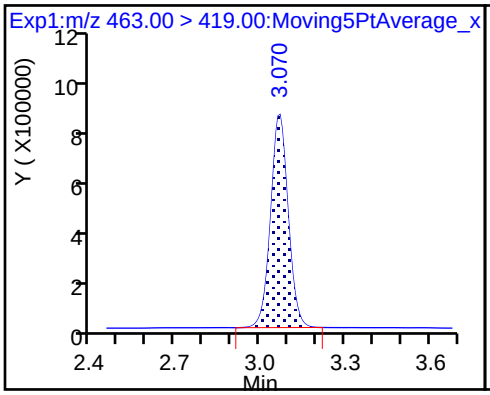
17 Perfluorooctane sulfonic acid



D 19 13C5 PFNA



20 Perfluorononanoic acid



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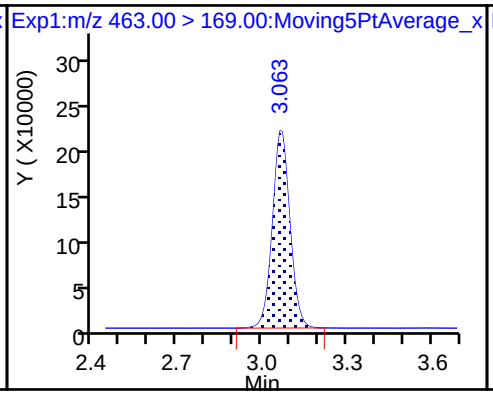
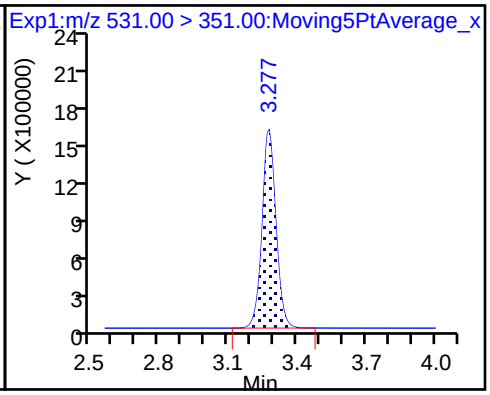
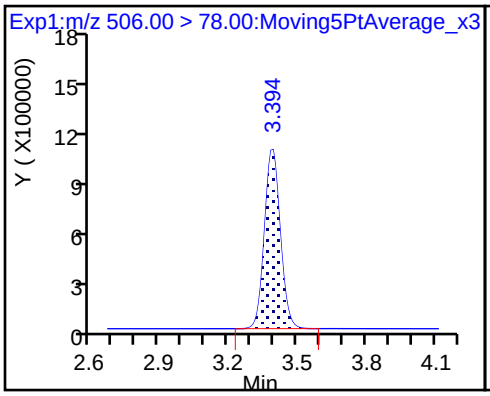


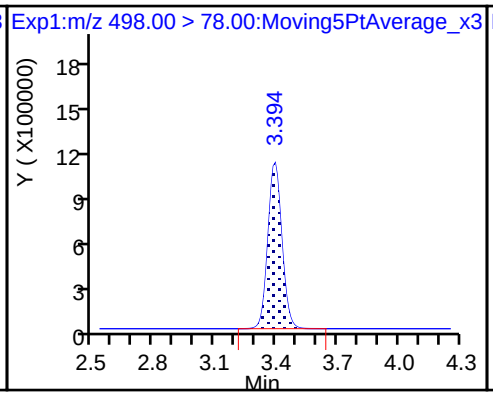
69 9-Chlorohexadecafluoro-3-oxanonane



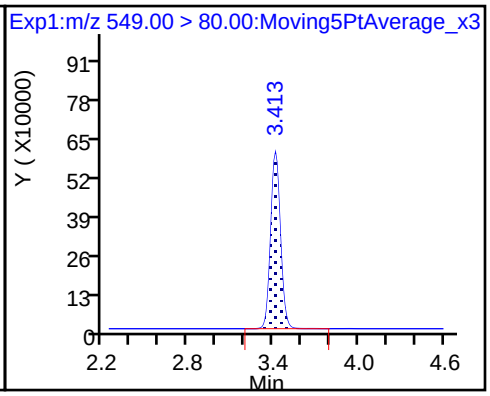
D 21 13C8 FOSA



22 Perfluorooctane Sulfonamide



68 Perfluorononanesulfonic acid



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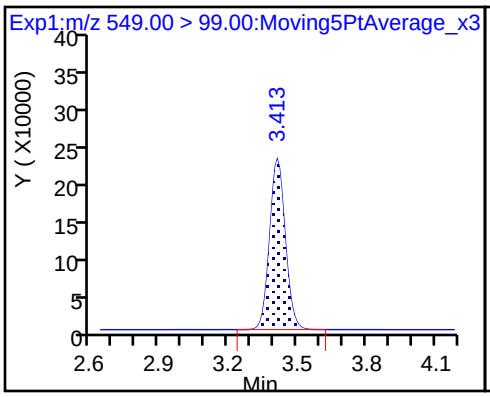
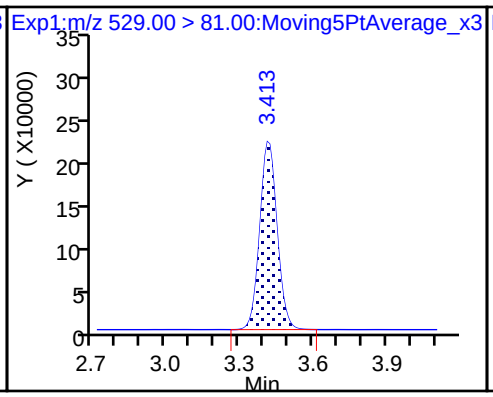
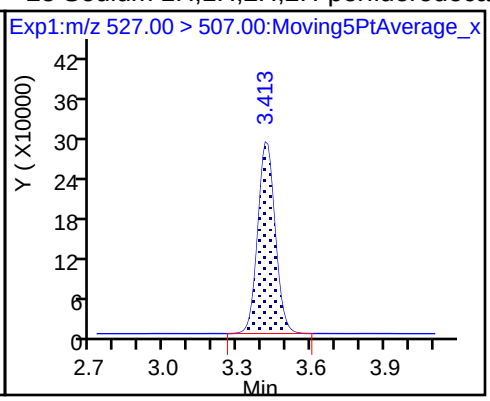


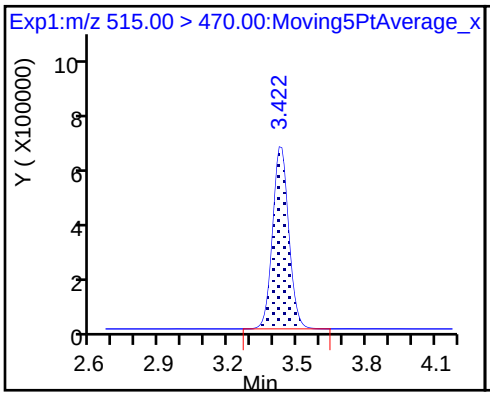
D 26 M2-8:2FTS



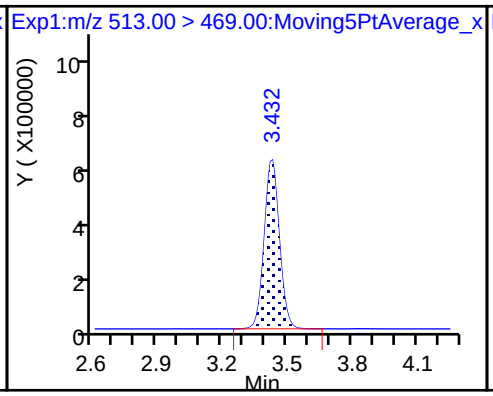
25 Sodium 1H,1H,2H,2H-perfluorodecane



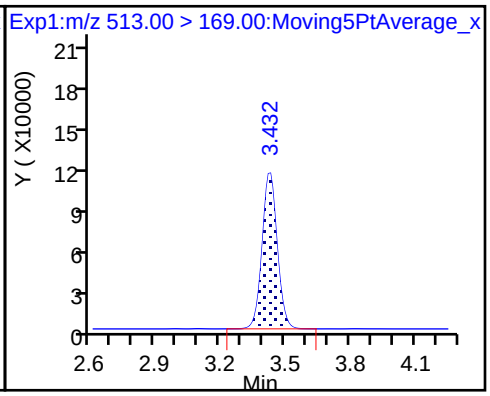
D 23 13C2 PFDA



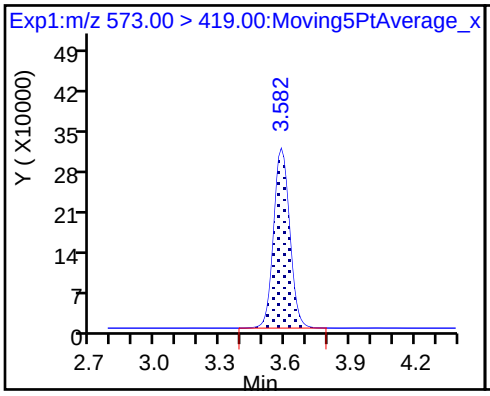
24 Perfluorodecanoic acid



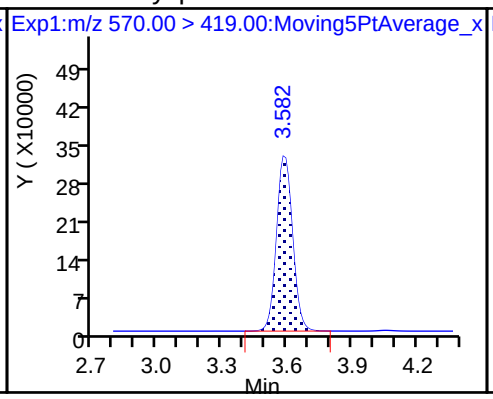
24 Perfluorodecanoic acid



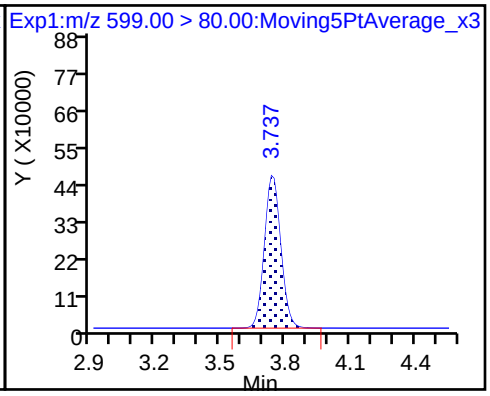
D 27 d3-NMeFOSAA



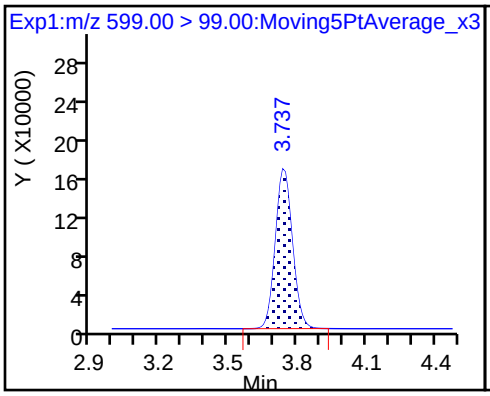
28 N-methyl perfluorooctane sulfonami



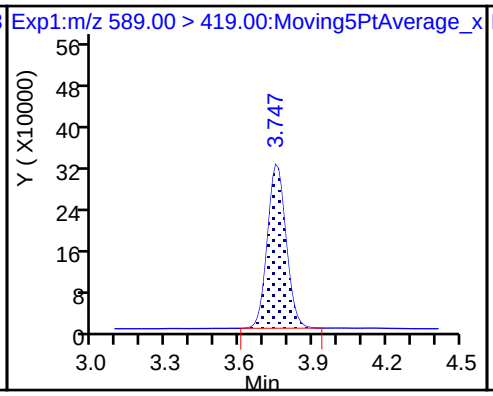
29 Perfluorodecane Sulfonic acid



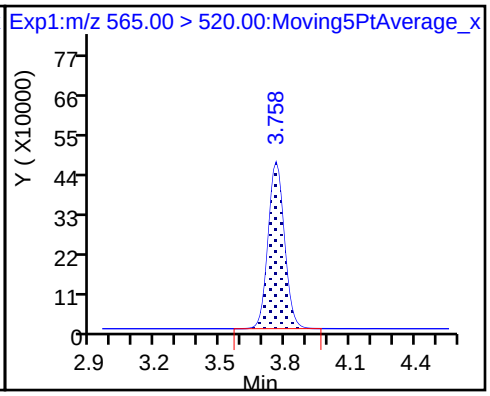
29 Perfluorodecane Sulfonic acid



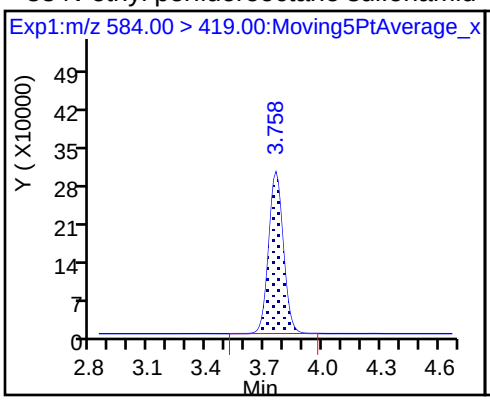
D 32 d5-NEtFOSAA



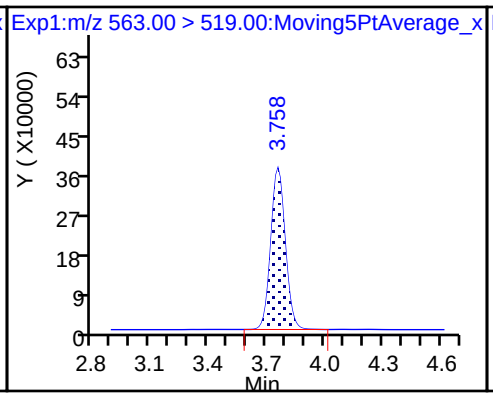
D 30 13C2 PFUnA



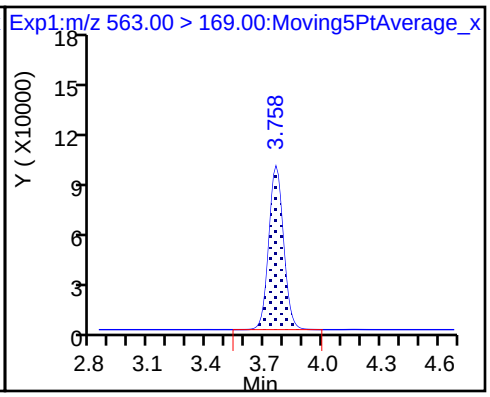
33 N-ethyl perfluorooctane sulfonamid



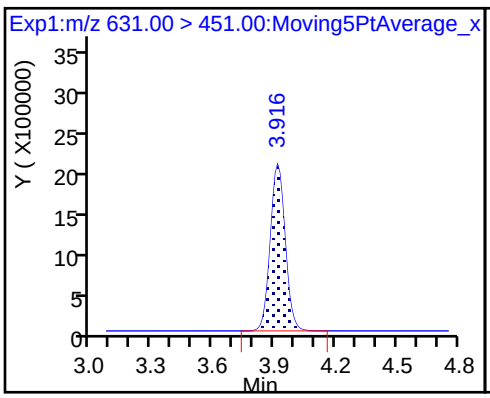
31 Perfluoroundecanoic acid



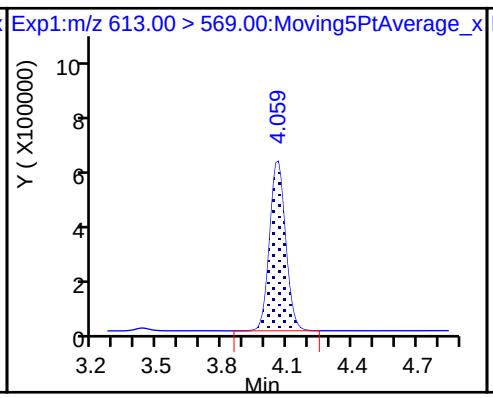
31 Perfluoroundecanoic acid



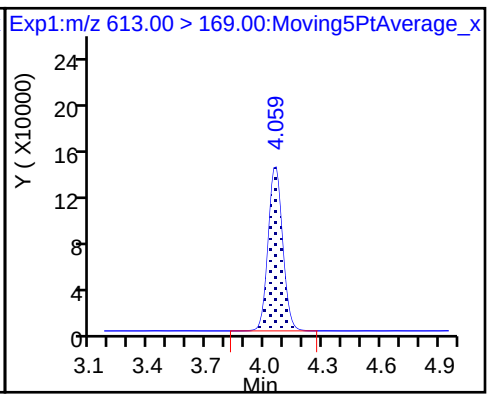
66 11-Chloroeicosafluoro-3-oxaundecan



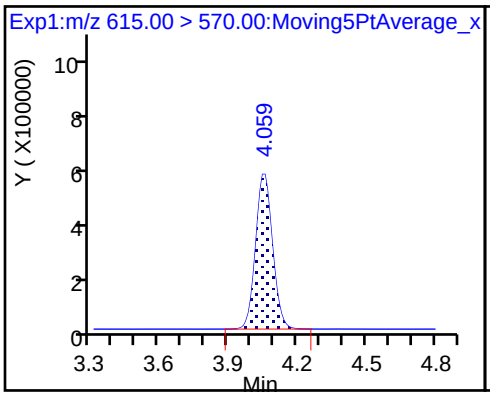
37 Perfluorododecanoic acid



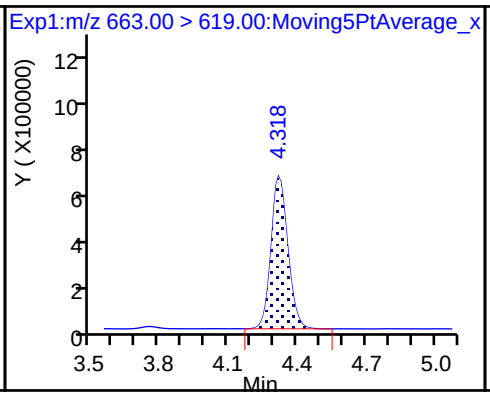
37 Perfluorododecanoic acid



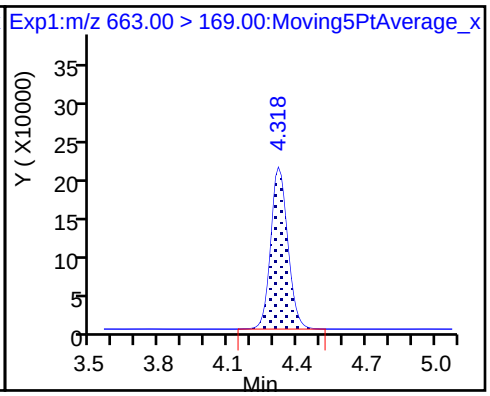
D 36 13C2 PFDoA



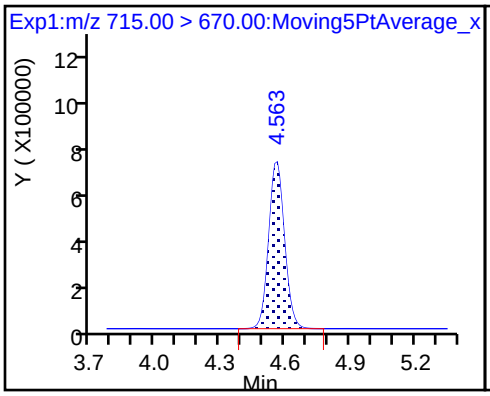
41 Perfluorotridecanoic acid



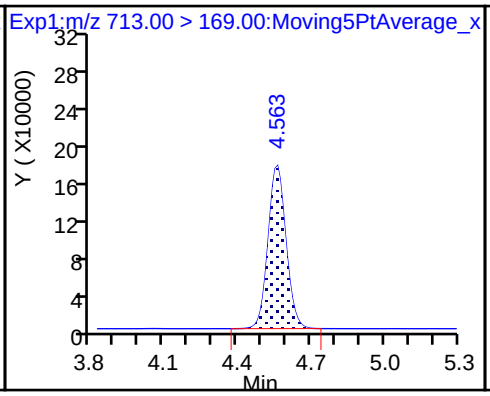
41 Perfluorotridecanoic acid



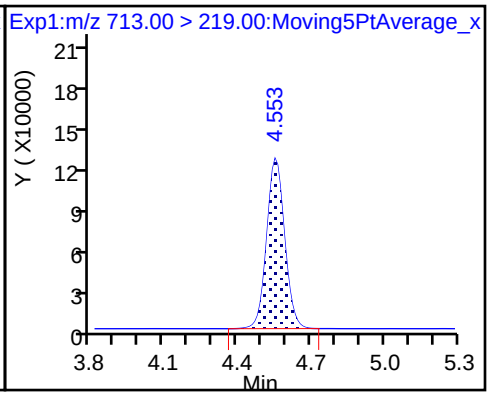
D 43 13C2-PFTeDA



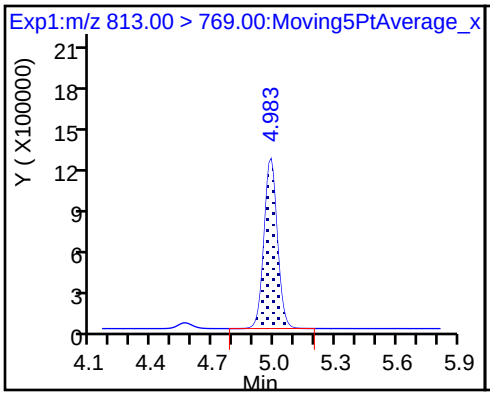
42 Perfluorotetradecanoic acid



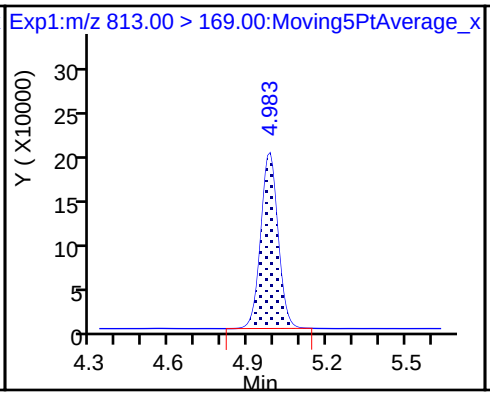
42 Perfluorotetradecanoic acid



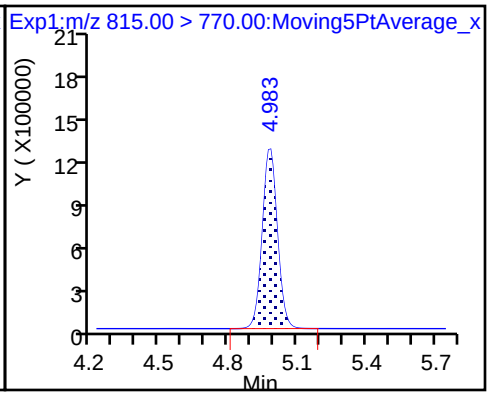
45 Perfluorohexadecanoic acid



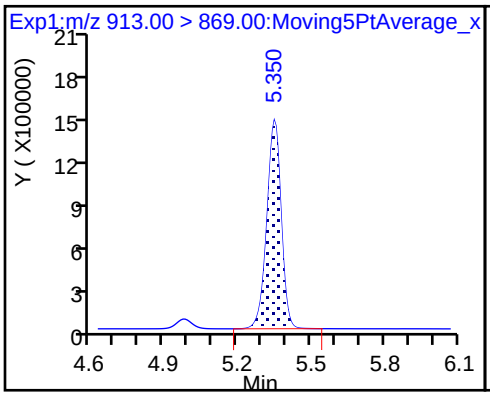
45 Perfluorohexadecanoic acid



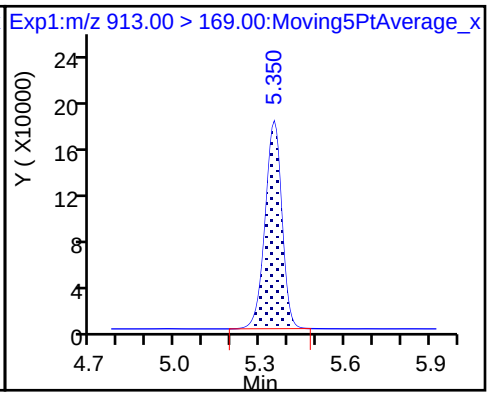
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Mar-2018 18:06:29 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:48:21 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 09:39:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.436	0.0	1.000	6363039	2.56		102	54816	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.437	-0.001	1.000	12187200	5.18		104	6481	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.702	0.001	0.557	3961451	2.45		98.0	97309	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.706	-0.003	1.000	9830479	5.18		104	4891	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.738	0.001	1.000	87650	2.37		102	504	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.742	-0.003	1.000	13230767	4.45		101	8592	
298.90 > 99.00	1.739	1.742	-0.003	1.000	5640052		2.35(1.25-3.74)	101	8383	
D 60 M2-4:2FTS										
329.00 > 81.00	1.950	1.955	-0.005	1.000	663538	2.35		101	9348	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.950	1.955	-0.005	1.000	3033560	4.66		99.9	184398	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.003	1.000	4716939	2.65		106	121152	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.992	0.001	1.000	9564151	4.95		99.1	15110	
313.00 > 119.00	1.993	1.992	0.001	1.000	872950		10.96(5.03-15.10)	99.1	8742	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.013	0.003	1.000	13067667	4.87		104	259659	
349.00 > 99.00	2.016	2.013	0.003	1.000	4761447		2.74(1.36-4.07)	104	77322	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.092	0.003	1.000	1481837	4.98		99.5	13884	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.092	0.003	1.000	218882	2.47		98.6	3534	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.326	-0.005	1.000	4500718	2.63		105	126673	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.327	-0.006	1.000	9347366	4.78		95.6	9088	
363.00 > 169.00	2.321	2.327	-0.006	1.000	3572887		2.62(1.13-3.40)	95.6	9323	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.339	-0.005	1.000	10543701	4.34		95.4	35174	
399.00 > 99.00	2.334	2.339	-0.005	1.000	3551342		2.97(1.50-4.49)	95.4	18598	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.340	-0.006	1.000	5143358	2.41		102	86865	
65 Adona										
377.00 > 251.00	2.372	2.372	0.0	1.000	25789461	4.95		99.1	221483	
377.00 > 85.00	2.372	2.372	0.0	1.000	15807587		1.63(0.84-2.53)	99.1	105371	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.660	2.664	-0.004	1.000	3287357	4.56		96.3	17017	
D 12 M2-6:2FTS										
429.00 > 81.00	2.660	2.664	-0.004	1.000	916140	2.31		97.4	21243	
D 14 13C4 PFOA										
417.00 > 372.00	2.682	2.688	-0.006	1.000	4062703	2.41		96.5	84227	
* 62 13C2-PFOA										
415.00 > 370.00	2.690	2.689	0.001		4493229	2.50			64333	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.690	2.690	0.0	1.003	9813194	5.09		102	3288	
413.00 > 169.00	2.682	2.690	-0.008	1.000	5156114		1.90(0.84-2.52)	102	16091	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.690	2.695	-0.005	1.000	9738630	5.00		105	86778	
449.00 > 99.00	2.690	2.695	-0.005	1.000	2682283		3.63(1.94-5.82)	105	39216	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.056	3.060	-0.004	1.000	8034226	4.81		104	16486	
499.00 > 99.00	3.056	3.060	-0.004	1.000	1733798		4.63(2.31-6.93)	104	13930	
D 18 13C4 PFOS										
503.00 > 80.00	3.056	3.060	-0.004	1.000	3490802	2.35		98.4	31167	
D 19 13C5 PFNA										
468.00 > 423.00	3.056	3.061	-0.005	1.000	3572058	2.51		100	77842	
20 Perfluorononanoic acid										
463.00 > 419.00	3.063	3.064	-0.001	1.002	7571474	5.15		103	11315	
463.00 > 169.00	3.056	3.064	-0.008	1.000	1902565		3.98(1.90-5.69)	103	44805	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.270	3.272	-0.002	1.000	13425151	4.92		105	107518	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	5241388	2.50		100	61882	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.385	3.389	-0.004	1.000	10438342	5.04		101	59624	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.403	3.409	-0.006	1.000	5885424	5.03		105	77768	
549.00 > 99.00	3.403	3.409	-0.006	1.000	2251448		2.61(1.33-3.97)	105	39310	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.413	0.0	1.000	1118796	2.43		101	38584	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.415	-0.002	1.000	2997433	4.76		99.3	31180	
D 23 13C2 PFDA										
515.00 > 470.00	3.422	3.423	-0.001	1.000	3100672	2.58		103	50163	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.422	3.427	-0.005	1.000	6258242	5.10		102	35393	
513.00 > 169.00	3.422	3.427	-0.005	1.000	1123617		5.57(2.36-7.09)	102	33516	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.571	3.578	-0.007	1.000	1583848	2.46		98.4	51851	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.582	3.581	0.001	1.003	3541055	5.30		106	21924	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.736	3.738	-0.002	1.000	5212375	5.14		107	67650	
599.00 > 99.00	3.736	3.738	-0.002	1.000	1752151		2.97(1.39-4.16)	107	42671	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.749	-0.002	1.000	1635848	2.42		96.8	4348	
D 30 13C2 PFUnA										
565.00 > 520.00	3.747	3.753	-0.006	1.000	2347134	2.39		95.5	41021	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.747	3.755	-0.008	1.000	3233549	5.39		108	38395	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.757	3.755	0.002	1.003	4020256	5.34		107	13507	
563.00 > 169.00	3.747	3.755	-0.008	1.000	1081558		3.72(2.12-6.36)	107	34506	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.905	3.910	-0.005	1.000	20815228	4.91		104	177470	
D 36 13C2 PFDoA										
615.00 > 570.00	4.048	4.052	-0.004	1.000	2678243	2.45		97.9	19671	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.048	4.052	-0.004	1.000	5893687	5.09		102	4450	
613.00 > 169.00	4.048	4.052	-0.004	1.000	1477794		3.99(2.13-6.40)	102	17225	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.317	4.316	0.001	1.000	6588893	5.32		106	2657	
663.00 > 169.00	4.317	4.316	0.001	1.000	2142952		3.07(1.25-3.76)	106	32063	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.552	4.558	-0.006	1.000	1845416	5.27		105	23086	
713.00 > 219.00	4.552	4.558	-0.006	1.000	1280490		1.44(0.71-2.13)	105	17866	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.552	4.558	-0.006	1.000	3502295	2.52		101	21295	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.974	4.977	-0.003	1.000	5553497	2.59		104	14945	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.974	4.977	-0.003	1.000	10532699	4.99		99.7	2265	
813.00 > 169.00	4.974	4.977	-0.003	1.000	1838779		5.73(2.86-8.58)	99.7	11748	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.342	5.344	-0.002	1.000	11463437	5.20		104	1718	
913.00 > 169.00	5.342	5.344	-0.002	1.000	1443777		7.94(3.83-11.48)	104	8603	

Reagents:

LCPFC_LL6_00005 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:48:25 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_007.d

Injection Date: 29-Mar-2018 18:06:29 Instrument ID: A8_N

Lims ID: IC L6 Full

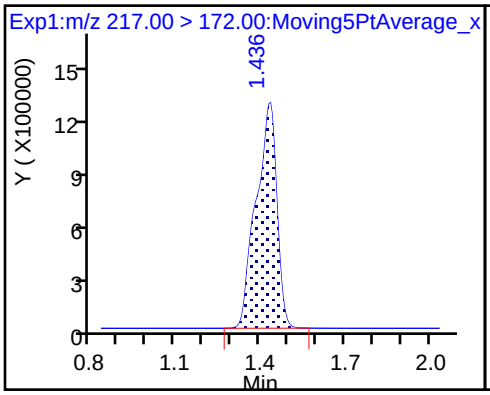
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

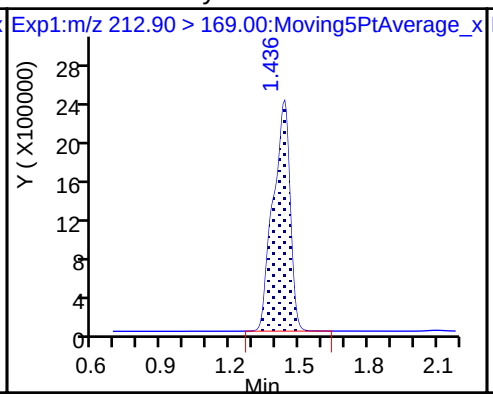
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

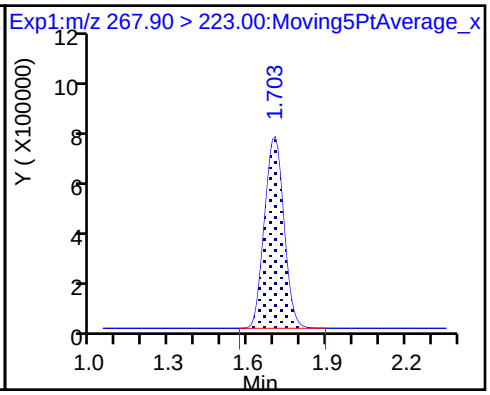
D 1 13C4 PFBA



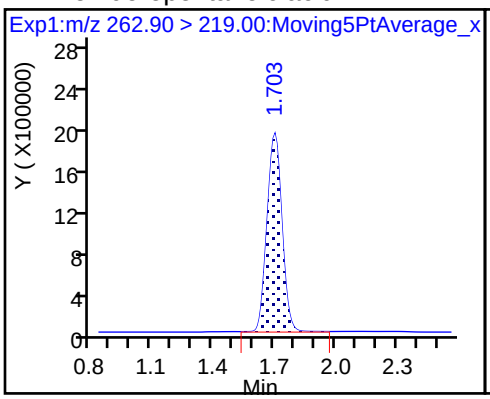
2 Perfluorobutyric acid



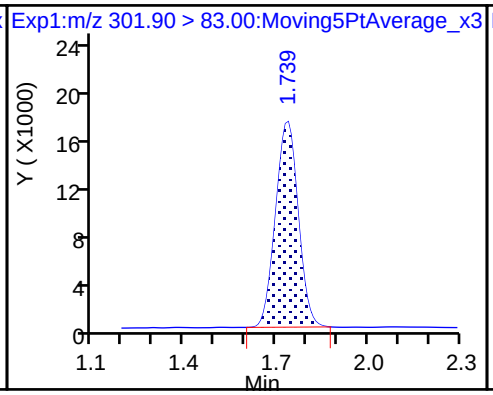
D 3 13C5-PFPeA



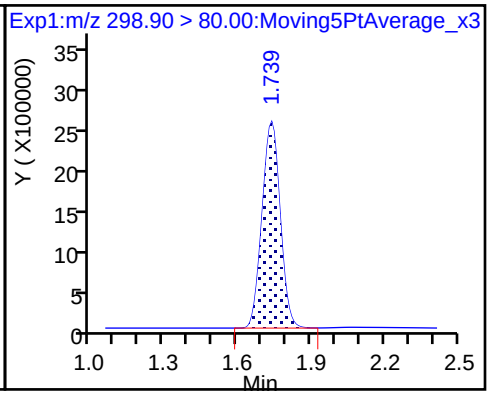
4 Perfluoropentanoic acid



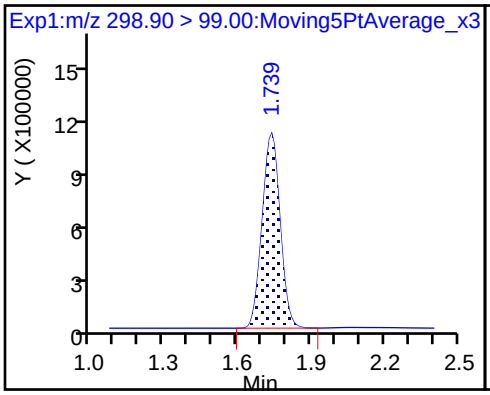
D 47 13C3-PFBS



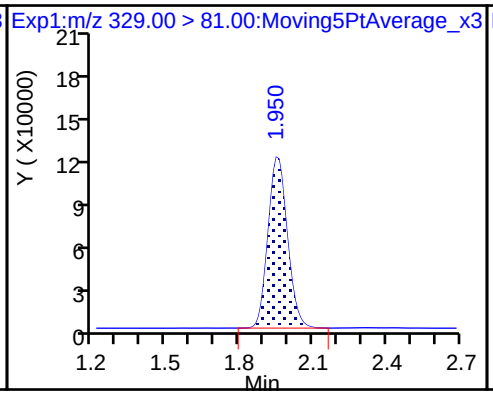
5 Perfluorobutanesulfonic acid



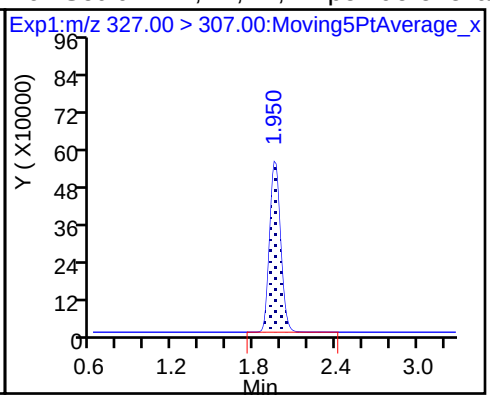
5 Perfluorobutanesulfonic acid



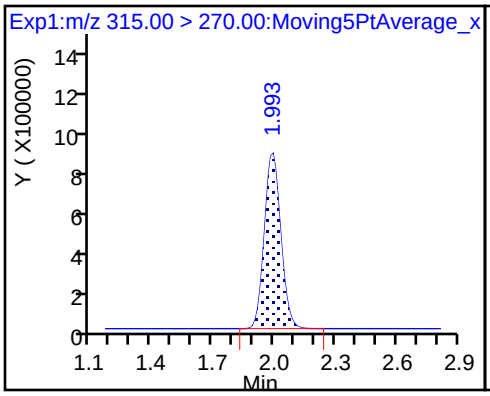
D 60 M2-4:2FTS



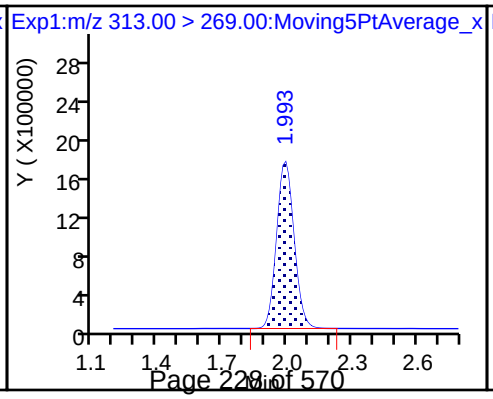
61 Sodium 1H,1H,2H,2H-perfluorohexane



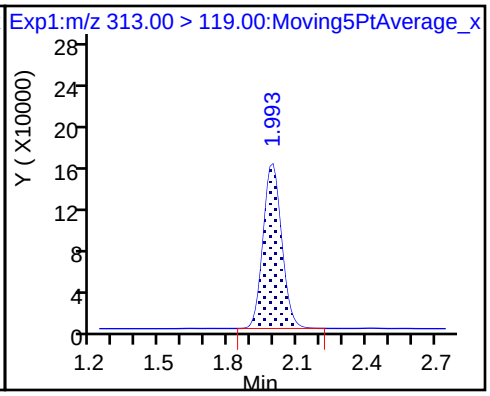
D 7 13C2 PFHxA



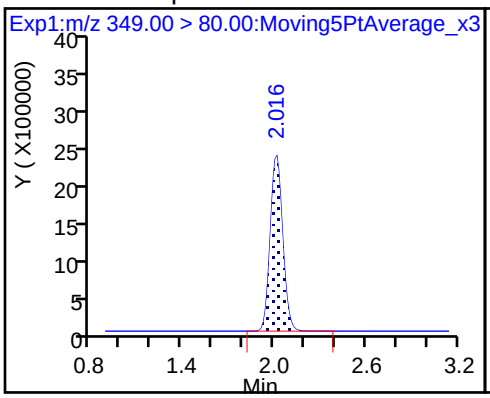
6 Perfluorohexanoic acid



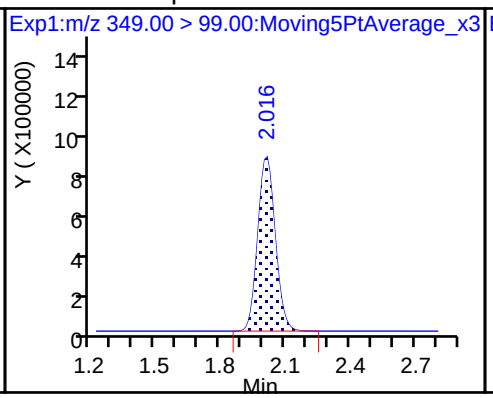
6 Perfluorohexanoic acid



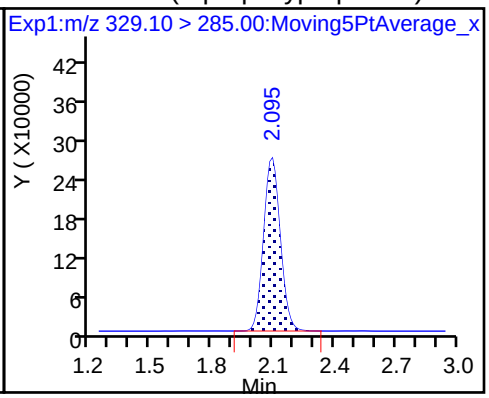
70 Perfluoropentanesulfonic acid



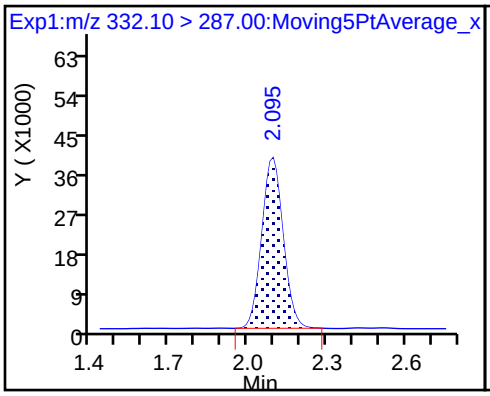
70 Perfluoropentanesulfonic acid



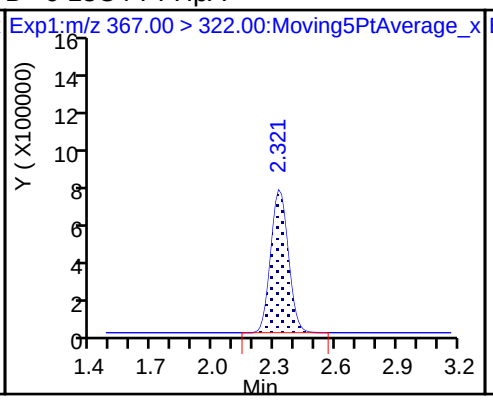
67 Perfluoro(2-propoxypropanoic) acid



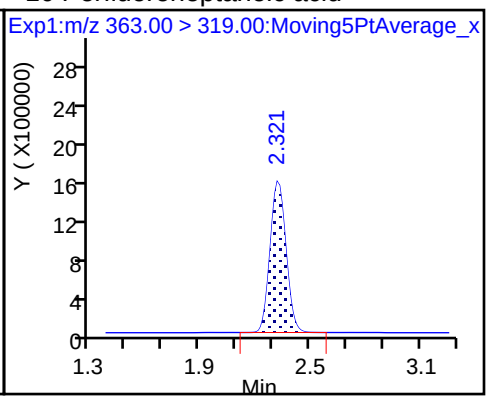
D 64 13C3 HFPO-DA



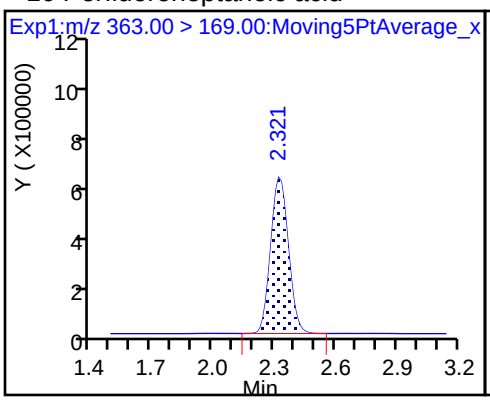
D 9 13C4-PFHpA



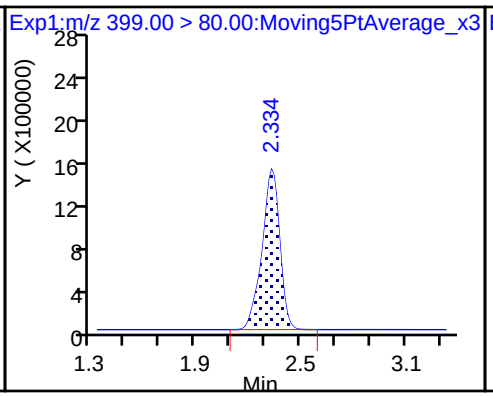
10 Perfluoroheptanoic acid



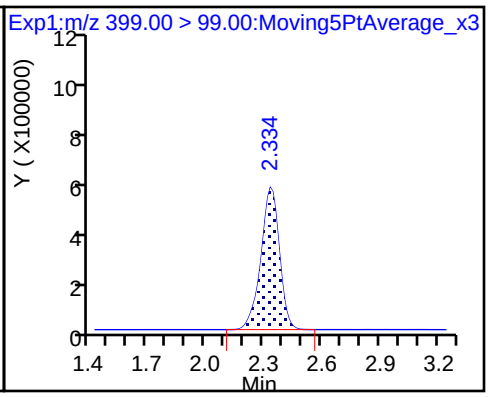
10 Perfluoroheptanoic acid



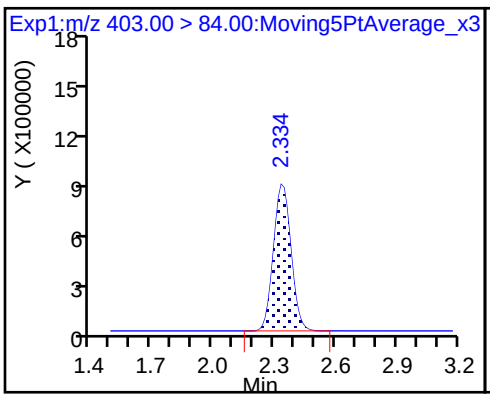
8 Perfluorohexanesulfonic acid



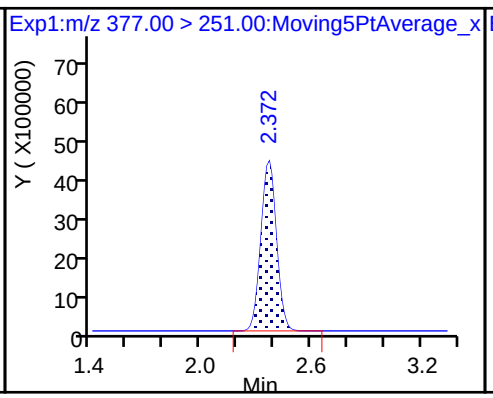
8 Perfluorohexanesulfonic acid



D 11 18O2 PFHxS



65 Adona



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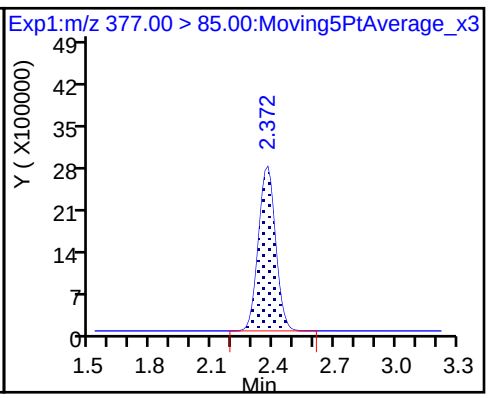
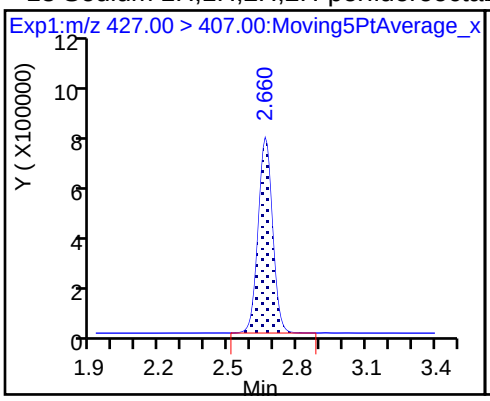
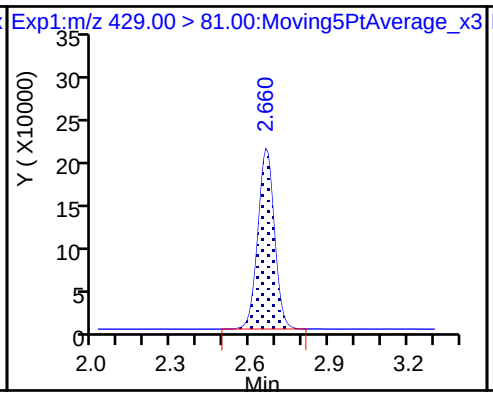


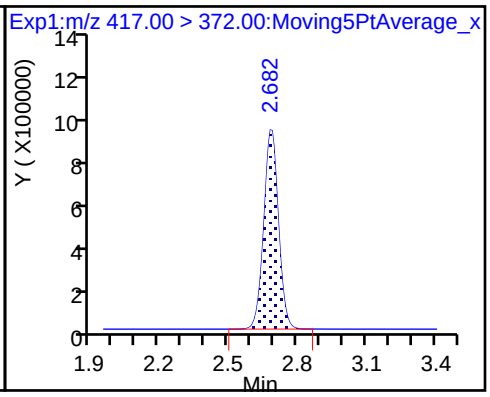
13 Sodium 1H,1H,2H,2H-perfluorooctane



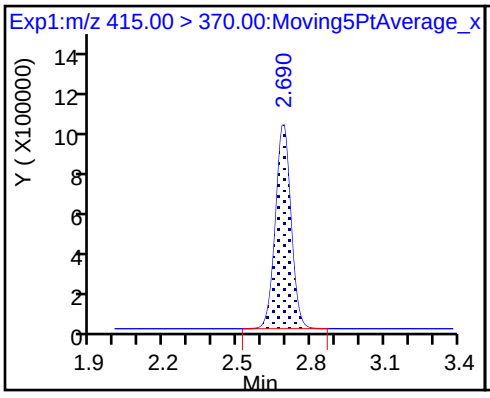
D 12 M2-6:2FTS



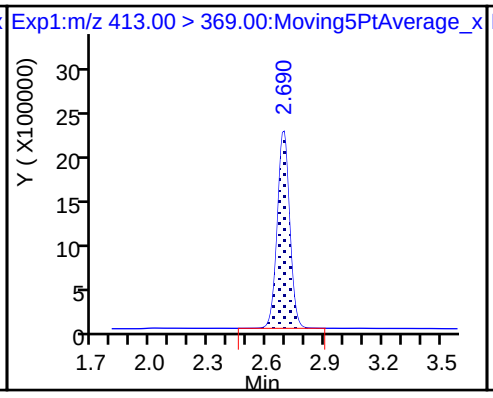
D 14 13C4 PFOA



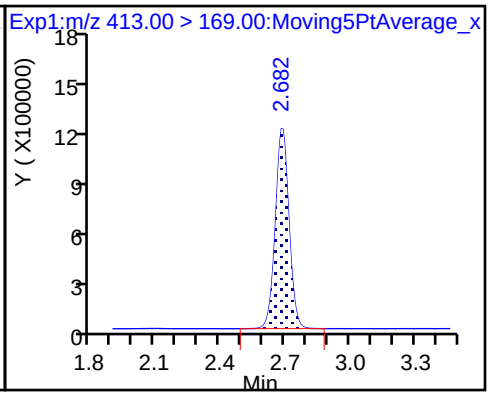
* 62 13C2-PFOA



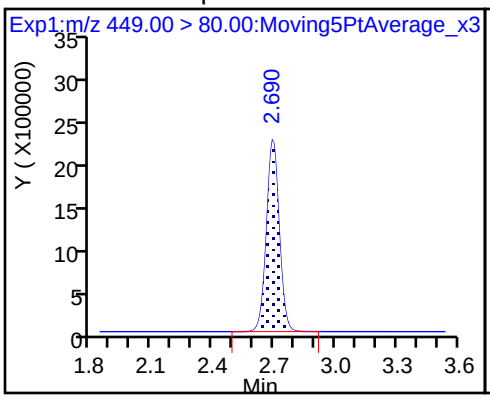
15 Perfluorooctanoic acid



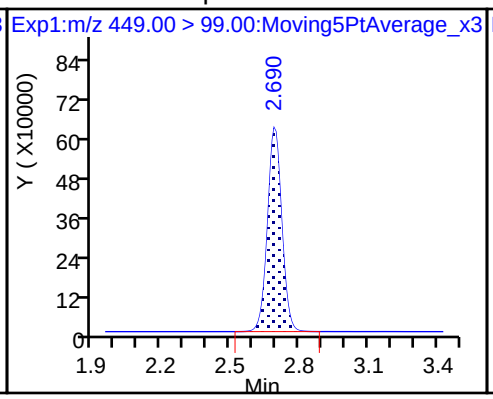
15 Perfluorooctanoic acid



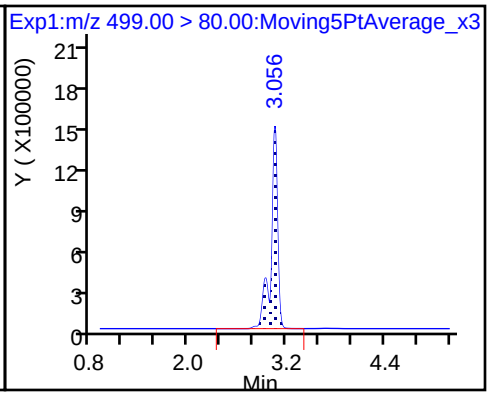
16 Perfluoroheptanesulfonic acid



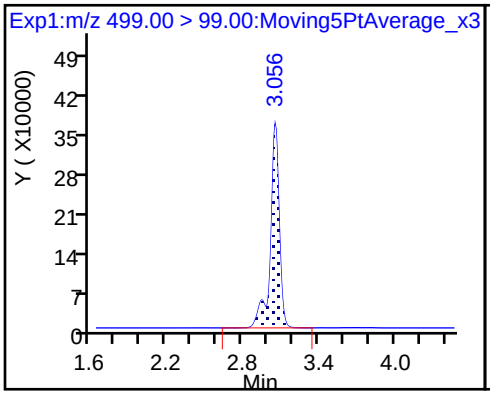
16 Perfluoroheptanesulfonic acid



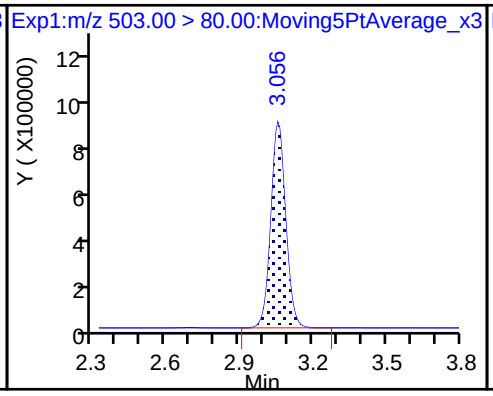
17 Perfluorooctane sulfonic acid



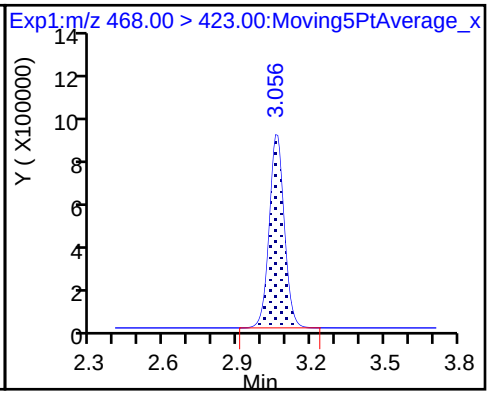
17 Perfluorooctane sulfonic acid



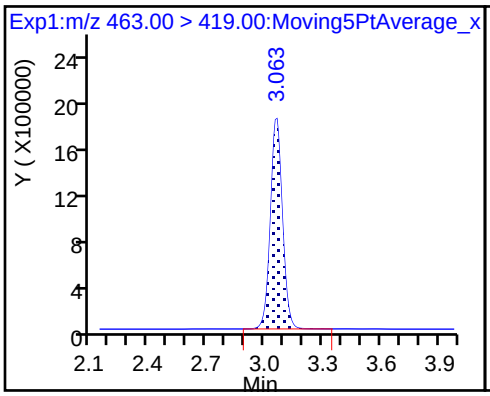
D 18 13C4 PFOS



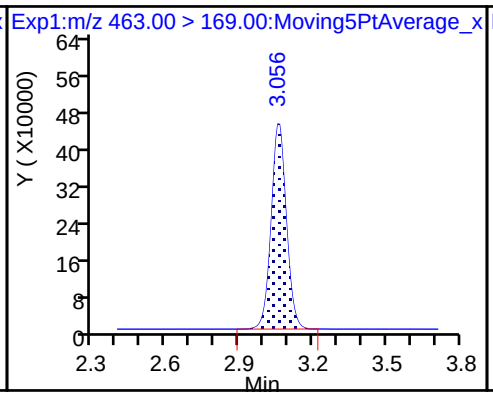
D 19 13C5 PFNA



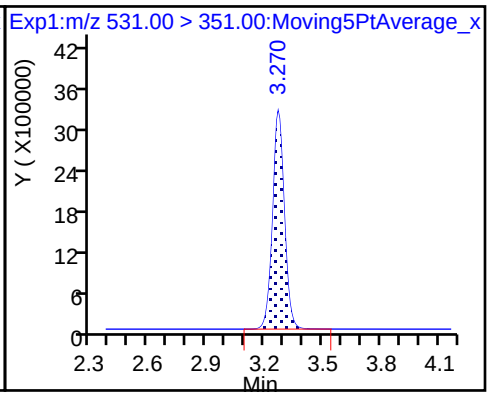
20 Perfluorononanoic acid



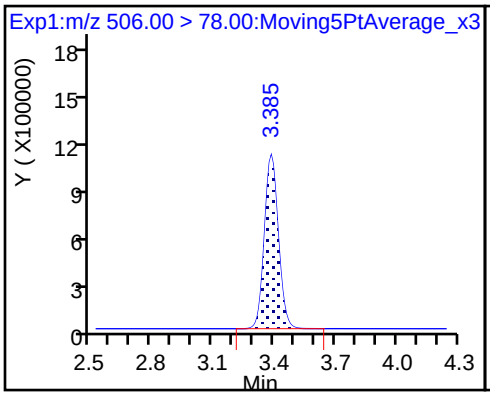
20 Perfluorononanoic acid



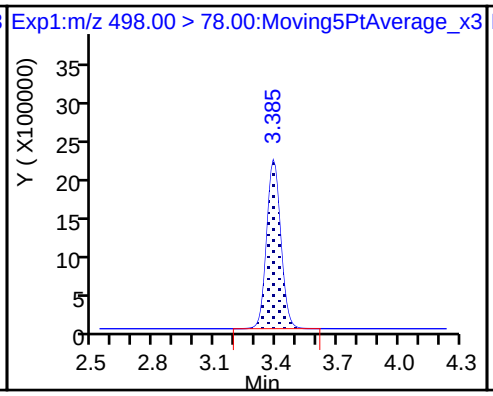
69 9-Chlorohexadecafluoro-3-oxanonane



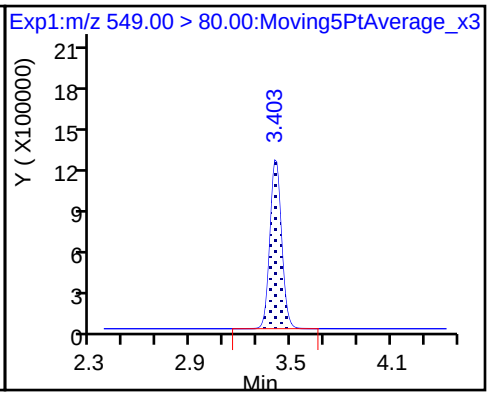
D 21 13C8 FOSA



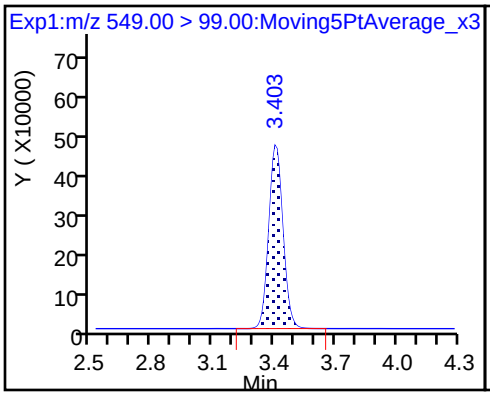
22 Perfluorooctane Sulfonamide



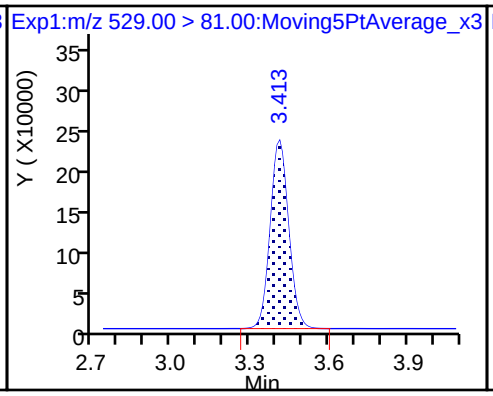
68 Perfluorononanesulfonic acid



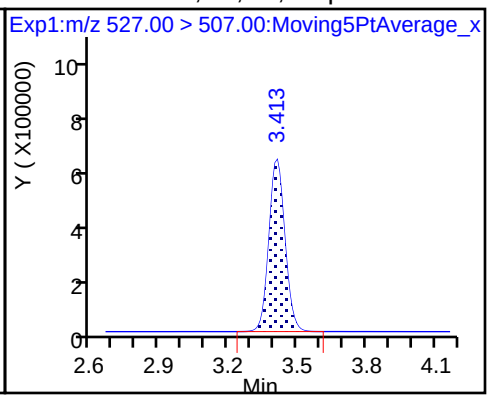
68 Perfluorononanesulfonic acid



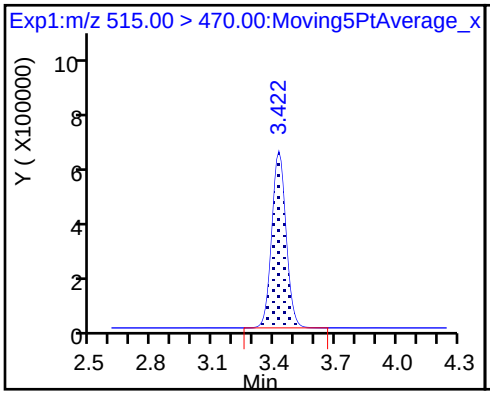
D 26 M2-8:2FTS



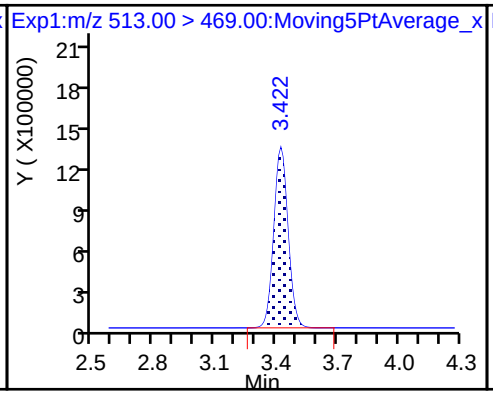
25 Sodium 1H,1H,2H,2H-perfluorodecane



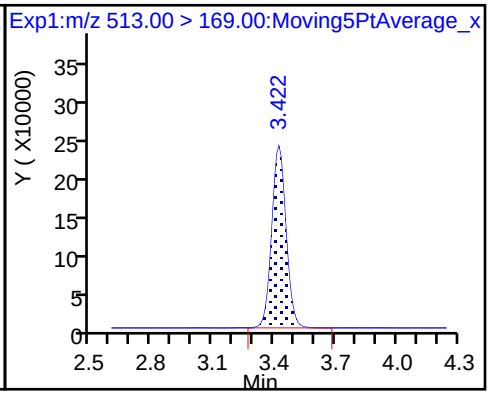
D 23 13C2 PFDA



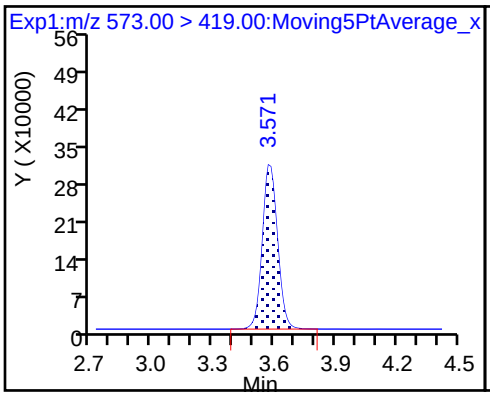
24 Perfluorodecanoic acid



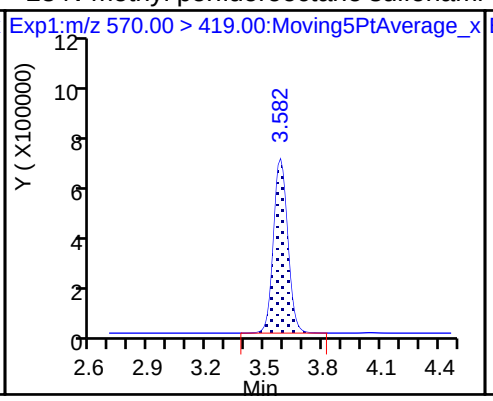
24 Perfluorodecanoic acid



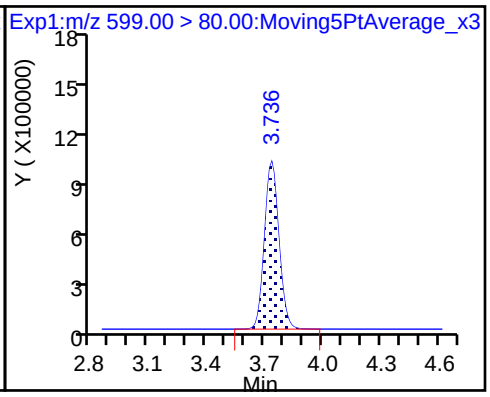
D 27 d3-NMeFOSAA



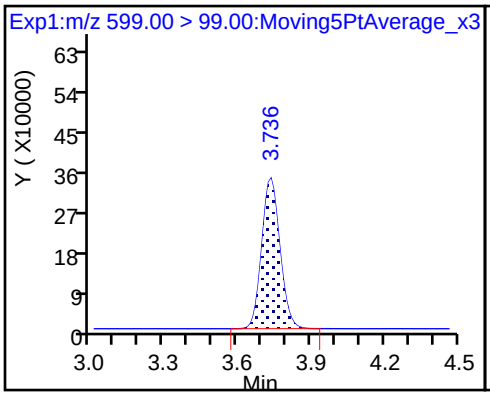
28 N-methyl perfluorooctane sulfonami



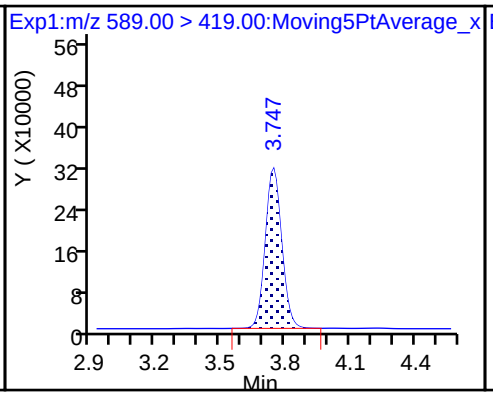
29 Perfluorodecane Sulfonic acid



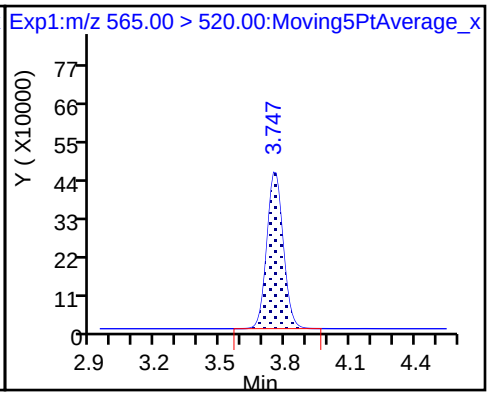
29 Perfluorodecane Sulfonic acid



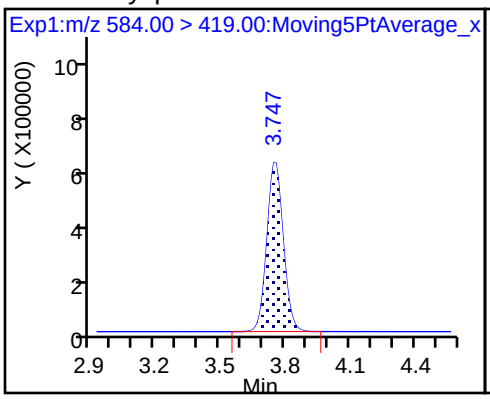
D 32 d5-NEtFOSAA



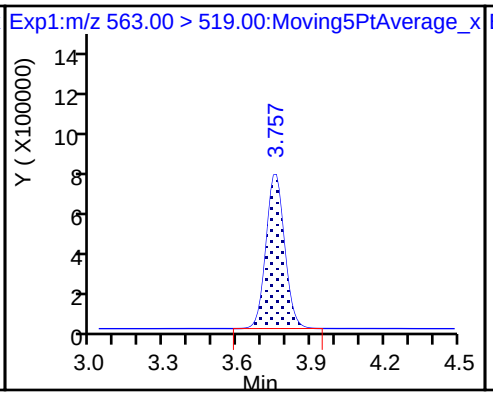
D 30 13C2 PFUnA



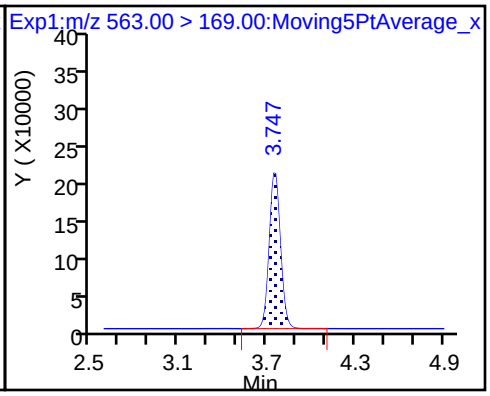
33 N-ethyl perfluorooctane sulfonamid



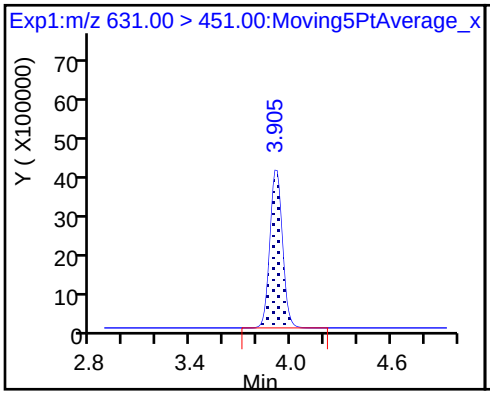
31 Perfluoroundecanoic acid



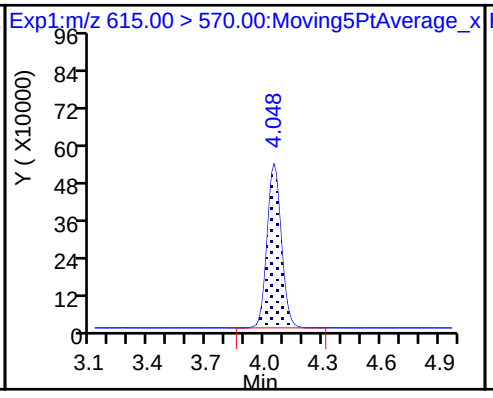
31 Perfluoroundecanoic acid



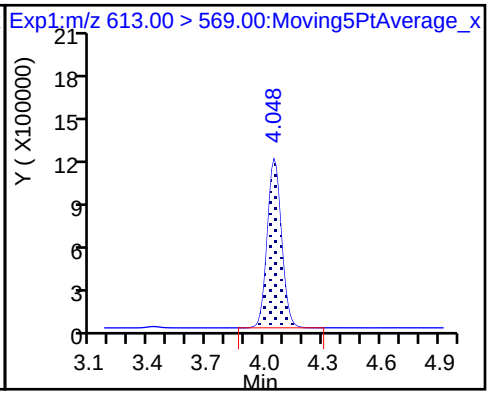
66 11-Chloroeicosafluoro-3-oxaundecan



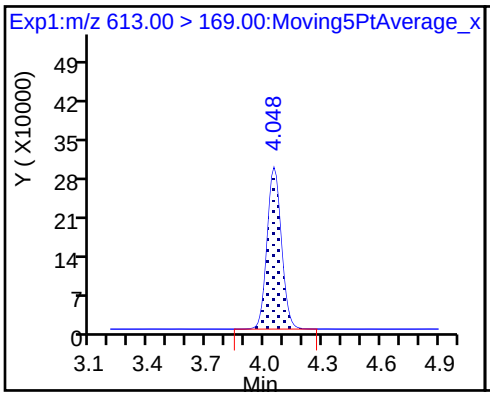
D 36 13C2 PFDoA



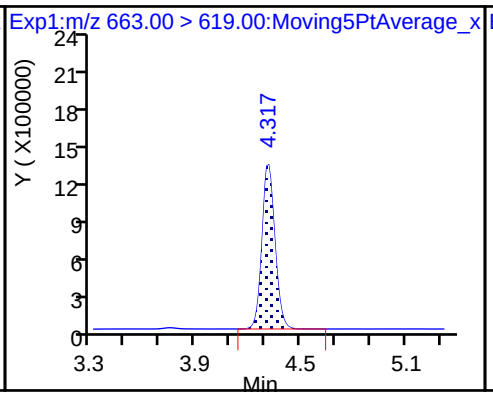
37 Perfluorododecanoic acid



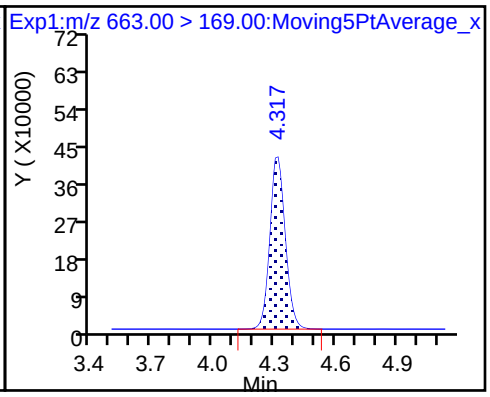
37 Perfluorododecanoic acid



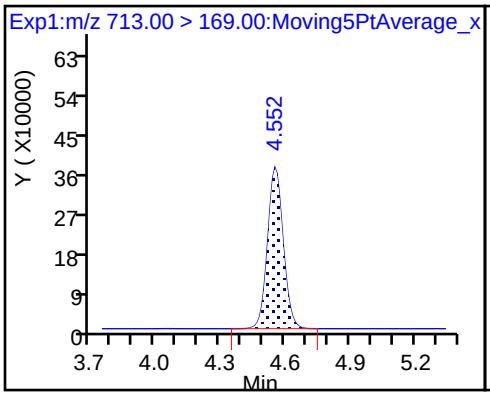
41 Perfluorotridecanoic acid



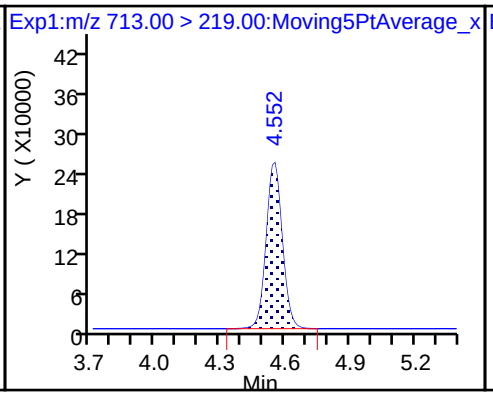
41 Perfluorotridecanoic acid



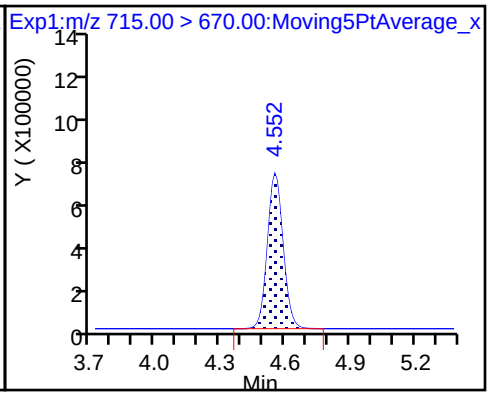
42 Perfluorotetradecanoic acid



42 Perfluorotetradecanoic acid



D 43 13C2-PFTeDA



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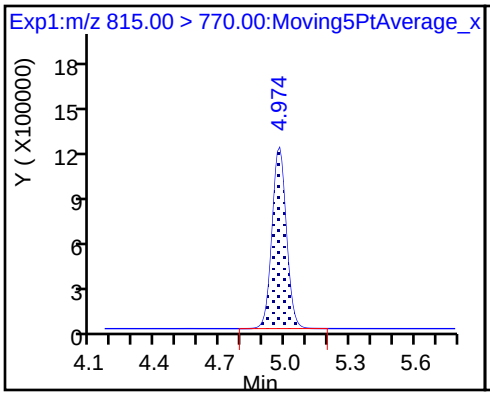
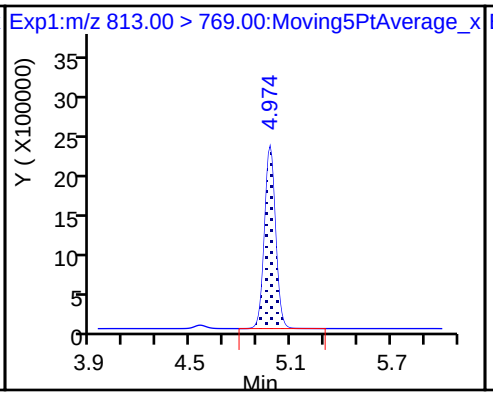
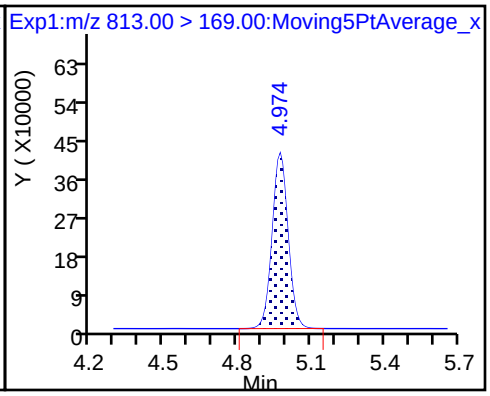


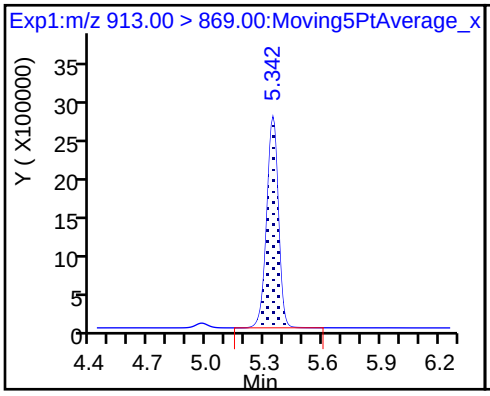
45 Perfluorohexadecanoic acid



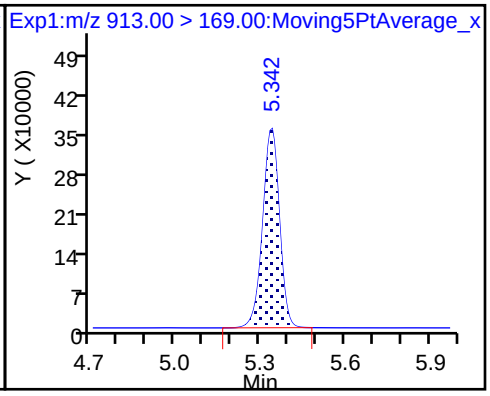
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Mar-2018 18:14:21 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:48:31 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

First Level Reviewer: westendorfc Date: 30-Mar-2018 09:48:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.436	-0.006	1.000	5735604	2.58		103	58531	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.437	-0.001	1.004	21580046	10.2		102	11632	
D 3 13C5-PFPeA										
267.90 > 223.00	1.694	1.702	-0.008	0.554	3687266	2.55		102	78635	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.706	-0.003	1.005	17152403	9.72		97.2	7365	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.738	0.001	1.000	78326	2.37		102	501	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.742	-0.003	1.000	22689760	8.54		96.6	14590	
298.90 > 99.00	1.739	1.742	-0.003	1.000	9957917		2.28(1.25-3.74)	96.6	14342	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.950	1.955	-0.005	1.000	5058050	8.70		93.2	228018	
D 60 M2-4:2FTS										
329.00 > 81.00	1.950	1.955	-0.005	1.000	570582	2.26		96.7	8489	
D 7 13C2 PFHxA										
315.00 > 270.00	1.982	1.991	-0.008	1.000	3845737	2.42		96.6	134352	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.992	0.001	1.006	16338328	10.4		104	22572	
313.00 > 119.00	1.982	1.992	-0.010	1.000	1517062		10.77(5.03-15.10)	104	17707	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.005	2.013	-0.008	1.000	21196987	8.84		94.2	244099	
349.00 > 99.00	2.005	2.013	-0.008	1.000	8492802		2.50(1.36-4.07)	94.2	186040	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.084	2.092	-0.008	1.000	207020	2.61		104	2646	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.084	2.092	-0.008	1.000	2889144	10.3		103	25368	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.326	-0.005	1.000	3833624	2.50		100	63922	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.327	-0.006	1.000	15839255	9.51		95.1	14396	
363.00 > 169.00	2.321	2.327	-0.006	1.000	6592946		2.40(1.13-3.40)	95.1	19234	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.339	-0.005	1.000	18176626	8.82		96.9	48609	
399.00 > 99.00	2.334	2.339	-0.005	1.000	6162005		2.95(1.50-4.49)	96.9	26079	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.340	-0.006	1.000	4362929	2.29		96.7	73318	
65 Adona										
377.00 > 251.00	2.372	2.372	0.0	1.000	40218776	8.16		81.6	276919	
377.00 > 85.00	2.372	2.372	0.0	1.000	25804266		1.56(0.84-2.53)	81.6	154557	
D 12 M2-6:2FTS										
429.00 > 81.00	2.660	2.664	-0.004	1.000	800357	2.26		95.3	22425	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.660	2.664	-0.004	1.000	5791627	9.20		97.1	28921	
D 14 13C4 PFOA										
417.00 > 372.00	2.682	2.688	-0.006	1.000	3749304	2.49		99.7	60903	
* 62 13C2-PFOA										
415.00 > 370.00	2.682	2.689	-0.007		4014147	2.50			76434	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.682	2.690	-0.008	1.000	16926232	9.52		95.2	5748	
413.00 > 169.00	2.682	2.690	-0.008	1.000	8823163		1.92(0.84-2.52)	95.2	19945	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.690	2.695	-0.005	1.000	16813478	9.12		95.8	151715	
449.00 > 99.00	2.690	2.695	-0.005	1.000	4717497		3.56(1.94-5.82)	95.8	51657	
D 18 13C4 PFOS										
503.00 > 80.00	3.056	3.060	-0.004	1.000	3306882	2.49		104	18604	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.056	3.060	-0.004	1.000	14234234	9.00		97.0	26257	
499.00 > 99.00	3.056	3.060	-0.004	1.000	3253738		4.37(2.31-6.93)	97.0	29168	
D 19 13C5 PFNA										
468.00 > 423.00	3.056	3.061	-0.005	1.000	3201114	2.51		101	68857	
20 Perfluorononanoic acid										
463.00 > 419.00	3.056	3.064	-0.008	1.000	13303148	10.1		101	13860	
463.00 > 169.00	3.056	3.064	-0.008	1.000	3354345		3.97(1.90-5.69)	101	61290	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.270	3.272	-0.002	1.000	23393631	9.04		97.0	229068	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	4756992	2.54		102	41758	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.385	3.389	-0.004	1.000	18498081	9.84		98.4	132507	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.403	3.409	-0.006	1.000	10261449	9.25		96.4	89713	
549.00 > 99.00	3.403	3.409	-0.006	1.000	3784203		2.71(1.33-3.97)	96.4	36264	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.413	0.0	1.000	932507	2.27		94.7	27454	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.415	-0.002	1.000	4947631	9.42		98.3	45864	
D 23 13C2 PFDA										
515.00 > 470.00	3.422	3.423	-0.001	1.000	2662530	2.48		99.0	34367	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.422	3.427	-0.005	1.000	10958309	10.4		104	51617	
513.00 > 169.00	3.422	3.427	-0.005	1.000	2047409		5.35(2.36-7.09)	104	70662	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.571	3.578	-0.007	1.000	1563764	2.72		109	31151	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.571	3.581	-0.010	1.000	6681300	10.1		101	34744	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.736	3.738	-0.002	1.000	8752766	9.12		94.6	88915	
599.00 > 99.00	3.736	3.738	-0.002	1.000	3105143		2.82(1.39-4.16)	94.6	75140	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.749	-0.002	1.000	1483924	2.46		98.3	3885	
D 30 13C2 PFUnA										
565.00 > 520.00	3.747	3.753	-0.006	1.000	2255059	2.57		103	43512	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.747	3.755	-0.008	1.000	5395434	9.91		99.1	67492	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.747	3.755	-0.008	1.000	7311434	10.1		101	27118	
563.00 > 169.00	3.747	3.755	-0.008	1.000	1915144		3.82(2.12-6.36)	101	40854	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.905	3.910	-0.005	1.000	33023539	8.22		87.3	221031	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.048	4.052	-0.004	1.000	10879941	10.0		99.9	7960	
613.00 > 169.00	4.048	4.052	-0.004	1.000	2711112		4.01(2.13-6.40)	99.9	35603	
D 36 13C2 PFDoA										
615.00 > 570.00	4.048	4.052	-0.004	1.000	2518124	2.58		103	17246	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.306	4.316	-0.010	1.000	12483957	10.7		107	5334	
663.00 > 169.00	4.306	4.316	-0.010	1.000	3993723		3.13(1.25-3.76)	107	49346	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.552	4.558	-0.006	1.000	3237082	2.61		104	15279	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.552	4.558	-0.006	1.000	3274341	10.1		101	29447	
713.00 > 219.00	4.542	4.558	-0.016	0.998	2448380		1.34(0.71-2.13)	101	26681	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.974	4.977	-0.003	1.000	19206042	10.4		104	3791	
813.00 > 169.00	4.974	4.977	-0.003	1.000	3117440		6.16(2.86-8.58)	104	14123	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.974	4.977	-0.003	1.000	4864202	2.54		101	13665	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.335	5.344	-0.009	1.000	18744405	9.70		97.0	2469	
913.00 > 169.00	5.335	5.344	-0.009	1.000	2456528		7.63(3.83-11.48)	97.0	10562	

Reagents:

LCPFC_LL7_00004 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:48:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Injection Date: 29-Mar-2018 18:14:21 Instrument ID: A8_N

Lims ID: IC L7 Full

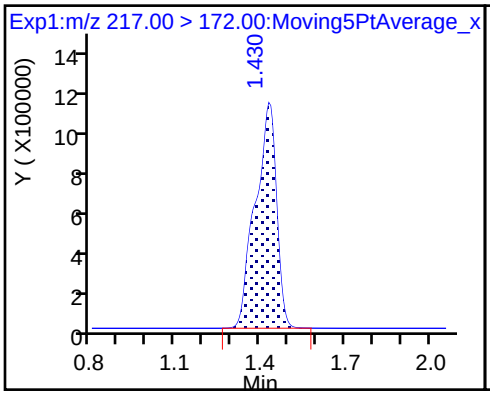
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

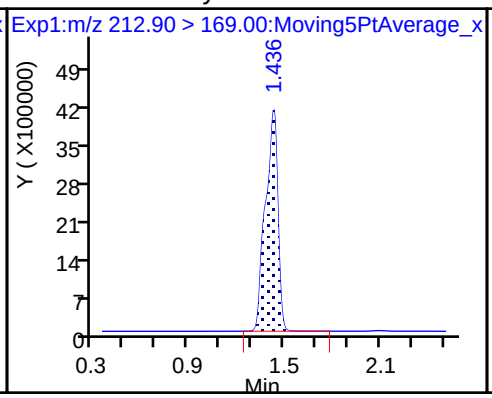
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

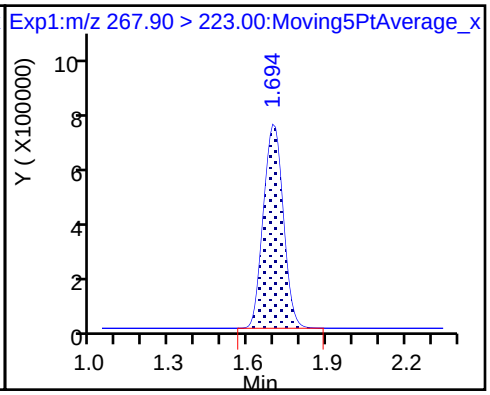
D 1 13C4 PFBA



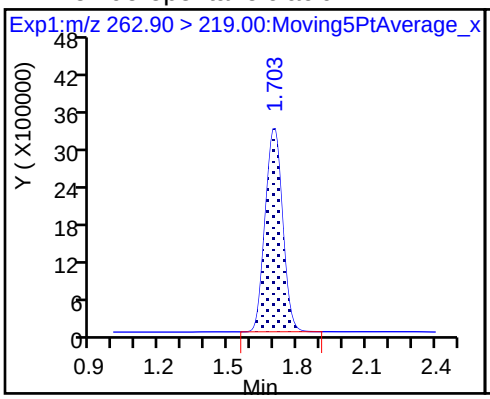
2 Perfluorobutyric acid



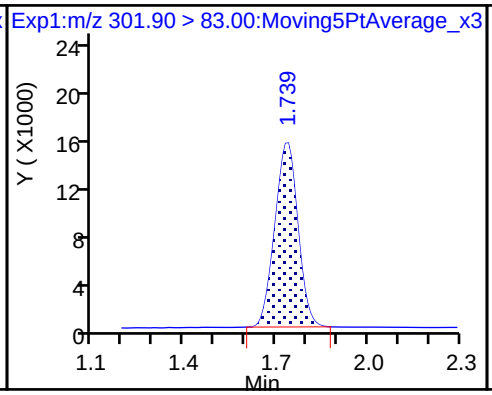
D 3 13C5-PFPeA



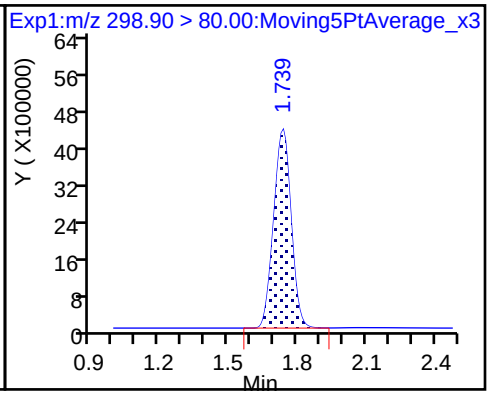
4 Perfluoropentanoic acid



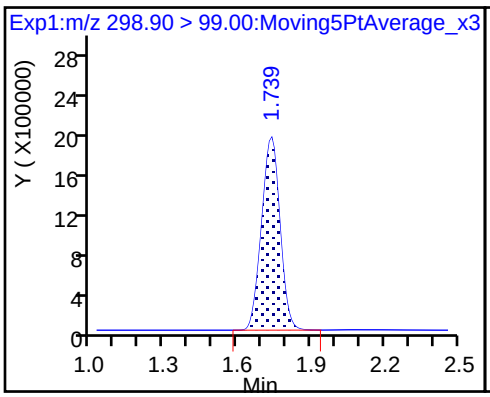
D 47 13C3-PFBS



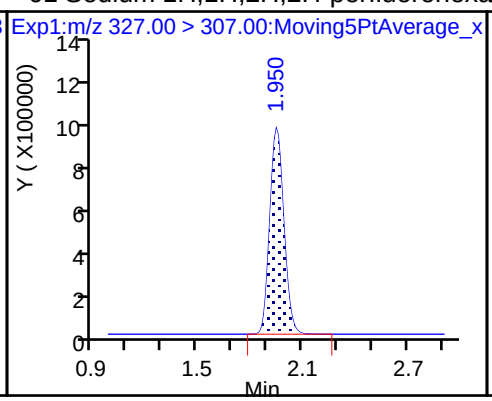
5 Perfluorobutanesulfonic acid



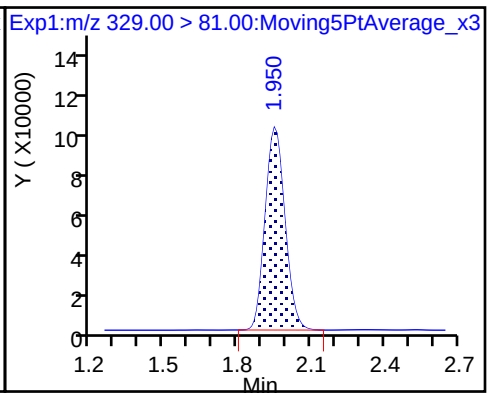
5 Perfluorobutanesulfonic acid



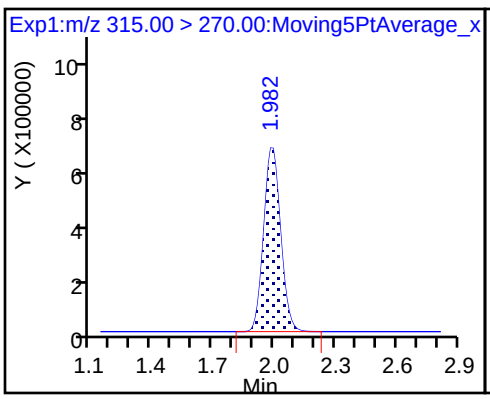
61 Sodium 1H,1H,2H,2H-perfluorohexa



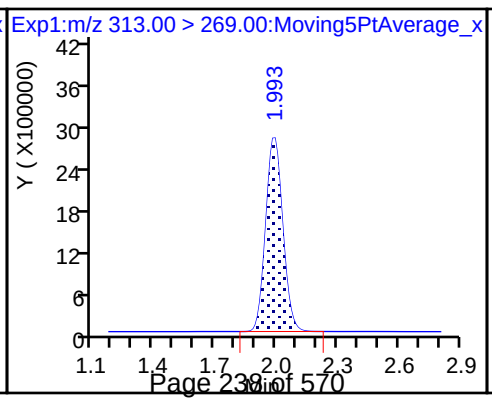
D 60 M2-4:2FTS



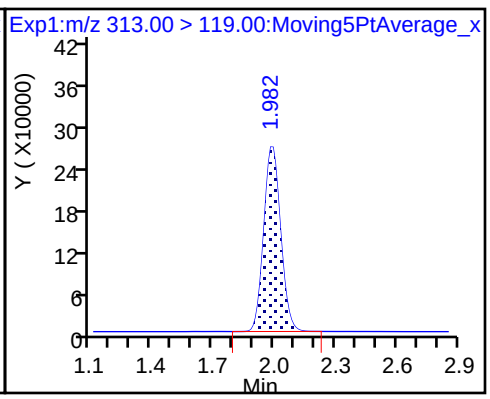
D 7 13C2 PFHxA



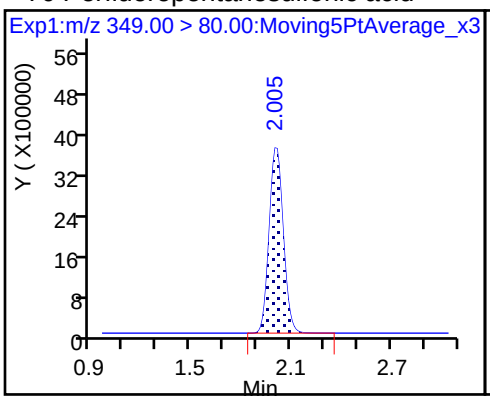
6 Perfluorohexanoic acid



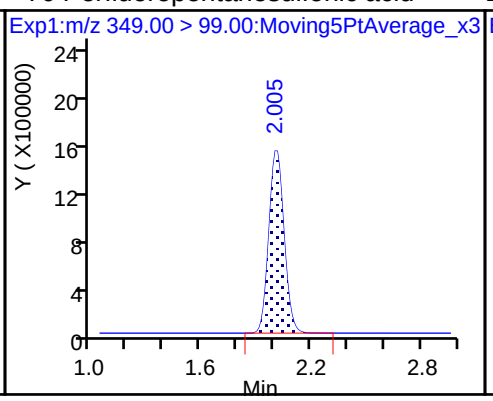
6 Perfluorohexanoic acid



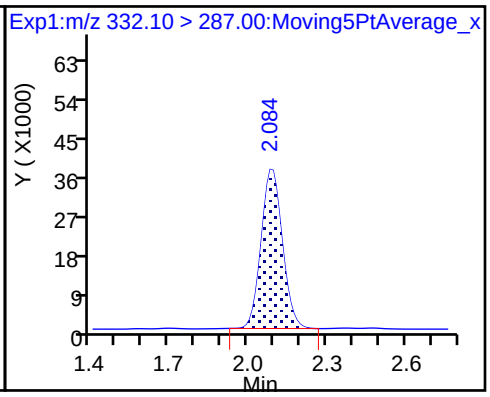
70 Perfluoropentanesulfonic acid



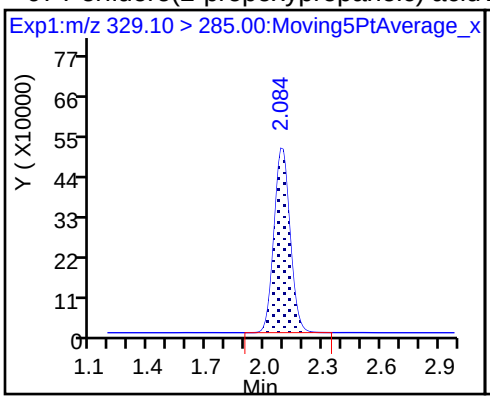
70 Perfluoropentanesulfonic acid



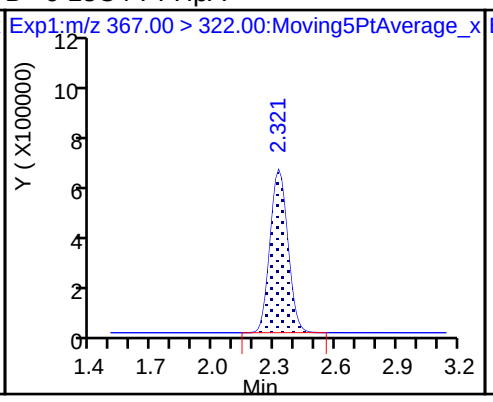
D 64 13C3 HFPO-DA



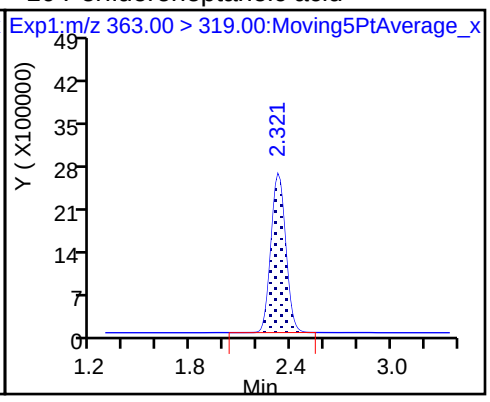
67 Perfluoro(2-propoxypropanoic) acid



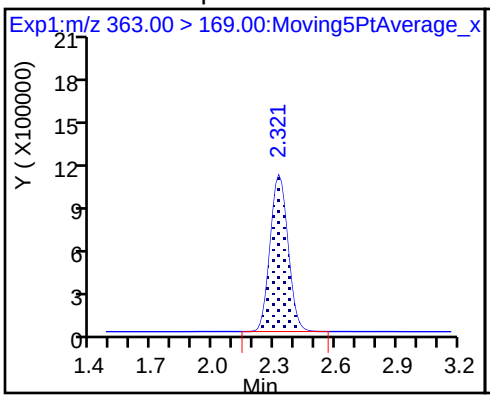
D 9 13C4-PFHpA



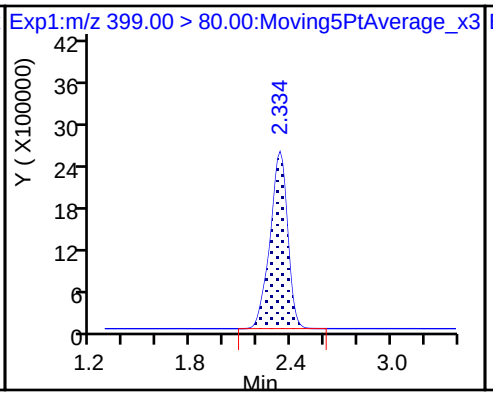
10 Perfluoroheptanoic acid



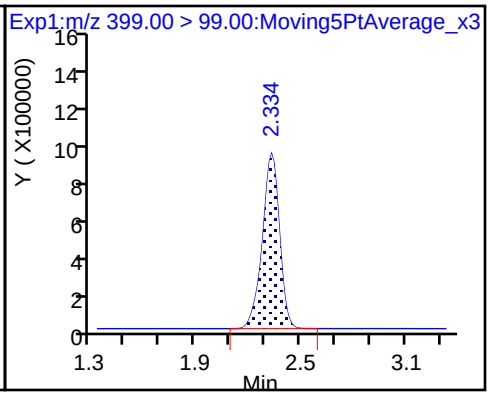
10 Perfluoroheptanoic acid



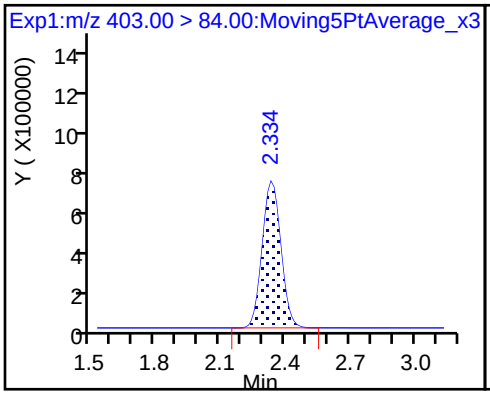
8 Perfluorohexanesulfonic acid



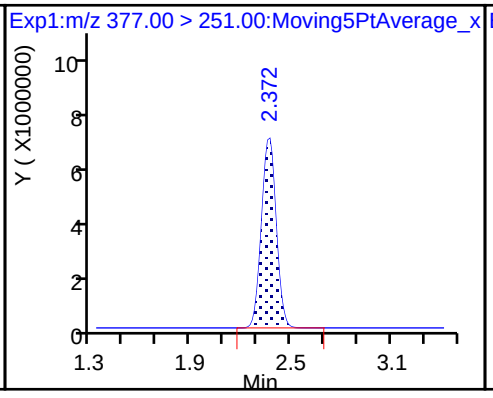
8 Perfluorohexanesulfonic acid



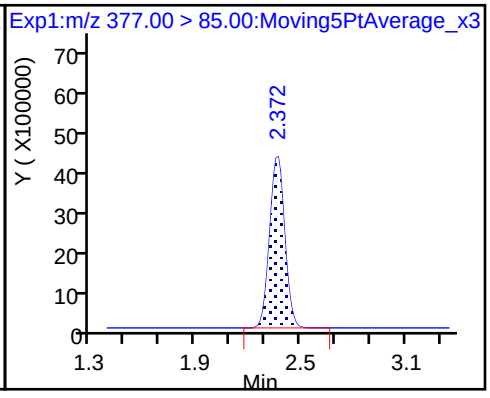
D 11 18O2 PFHxS



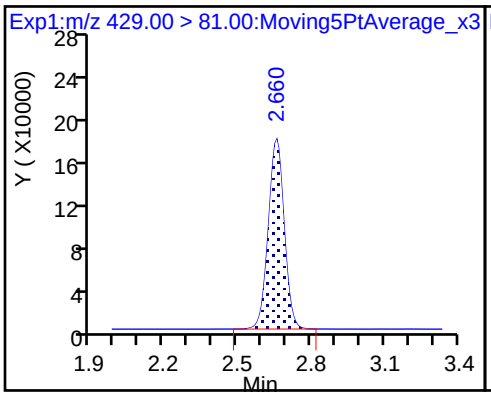
65 Adona



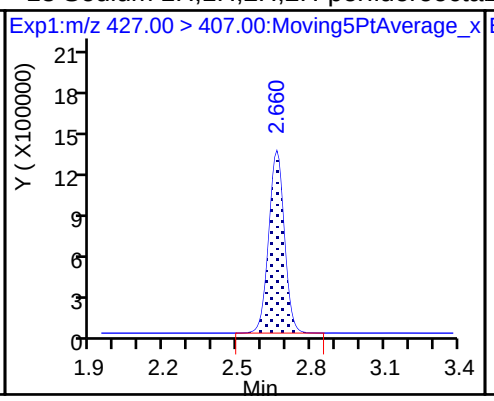
65 Adona



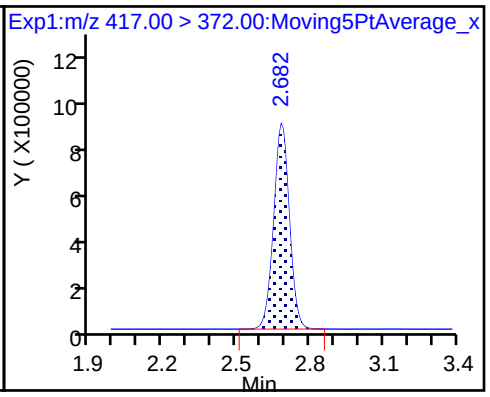
D 12 M2-6:2FTS



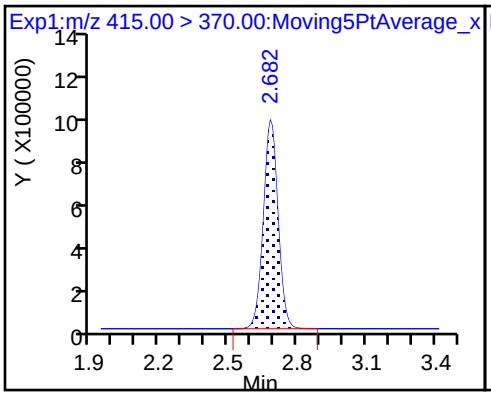
13 Sodium 1H,1H,2H,2H-perfluorooctane



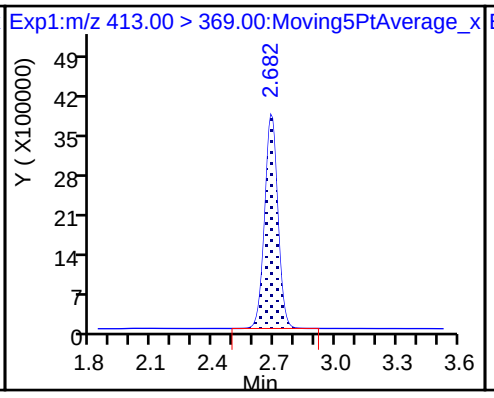
D 14 13C4 PFOA



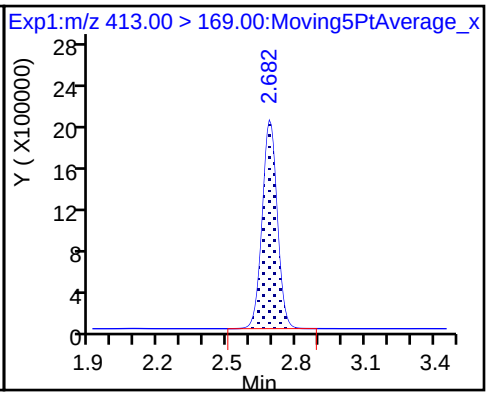
* 62 13C2-PFOA



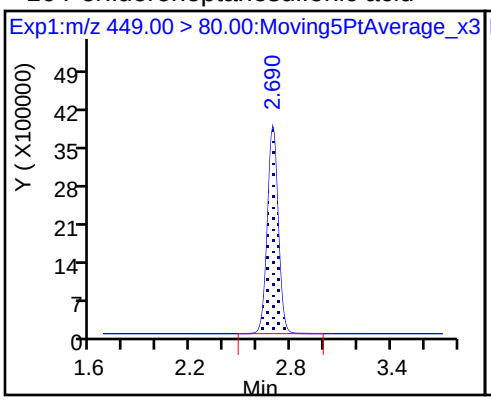
15 Perfluorooctanoic acid



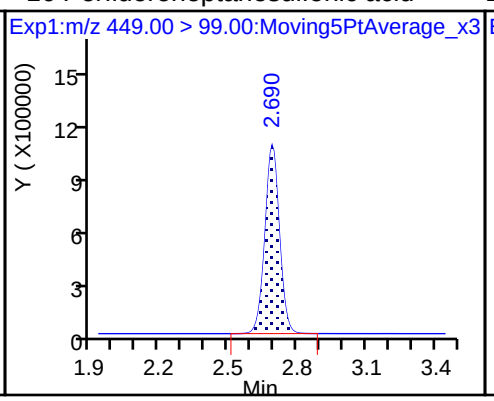
15 Perfluorooctanoic acid



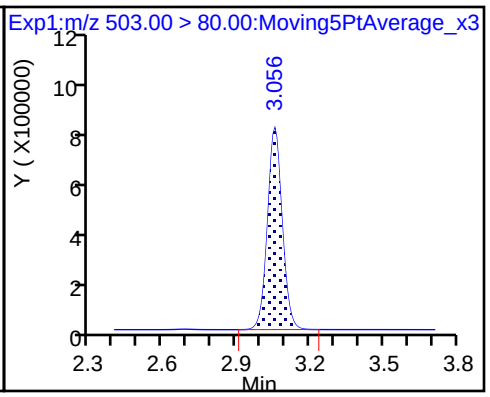
16 Perfluoroheptanesulfonic acid



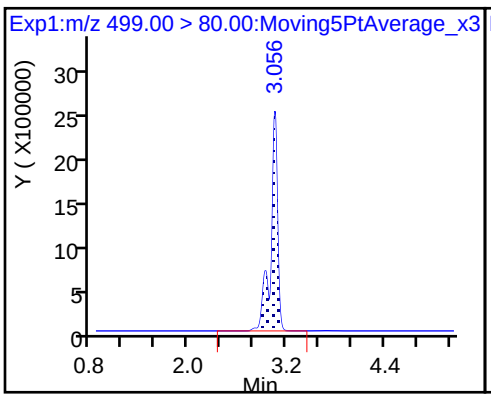
16 Perfluoroheptanesulfonic acid



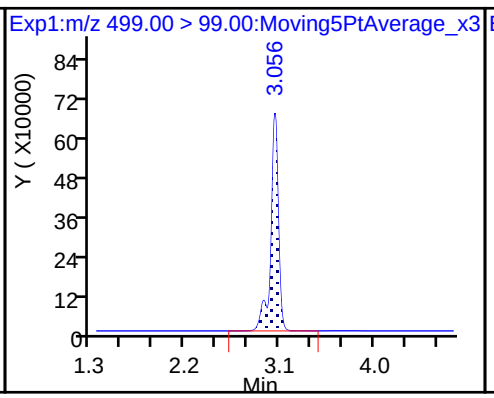
D 18 13C4 PFOS



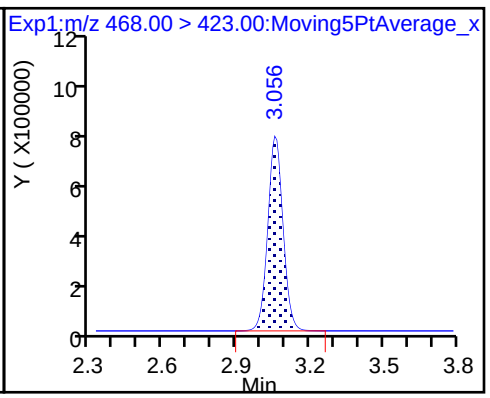
17 Perfluorooctane sulfonic acid



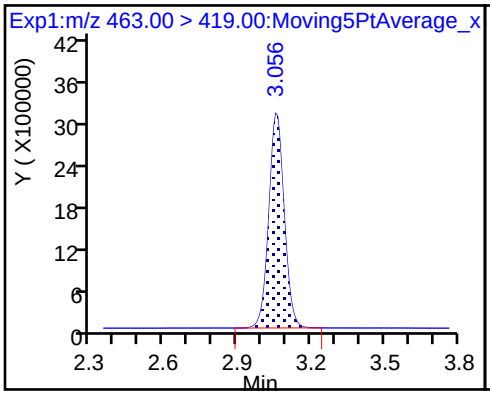
17 Perfluorooctane sulfonic acid



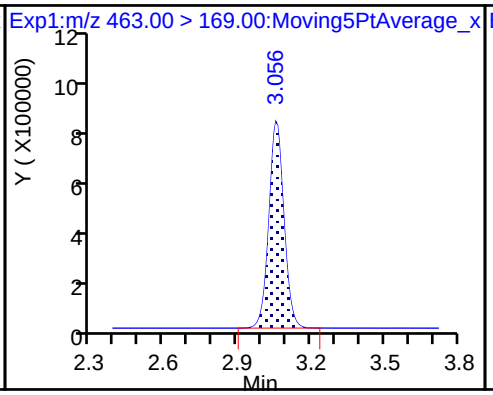
D 19 13C5 PFNA



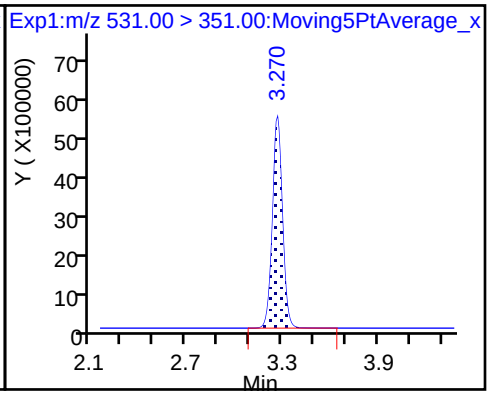
20 Perfluorononanoic acid



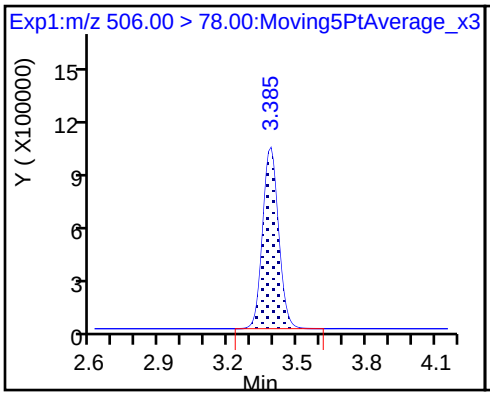
20 Perfluorononanoic acid



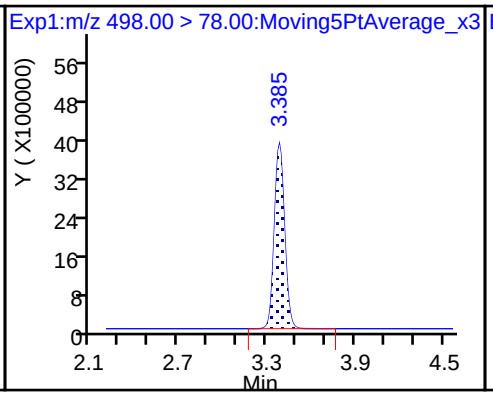
69 9-Chlorohexadecafluoro-3-oxanonane



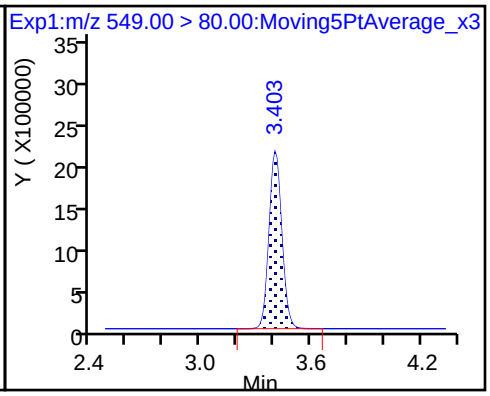
D 21 13C8 FOSA



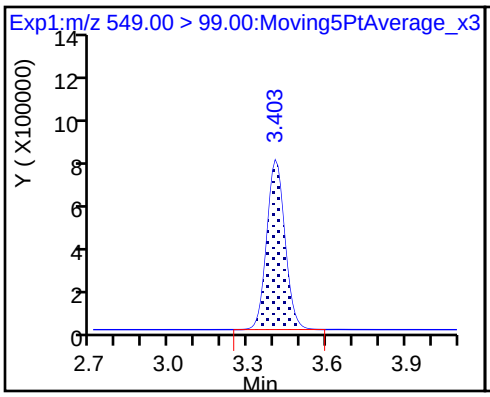
22 Perfluorooctane Sulfonamide



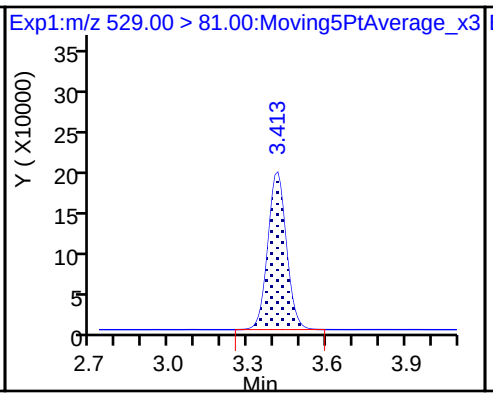
68 Perfluorononanesulfonic acid



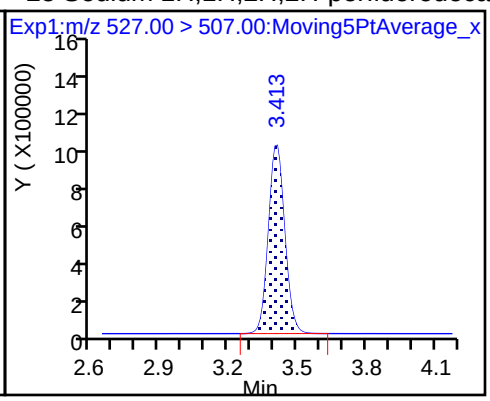
68 Perfluorononanesulfonic acid



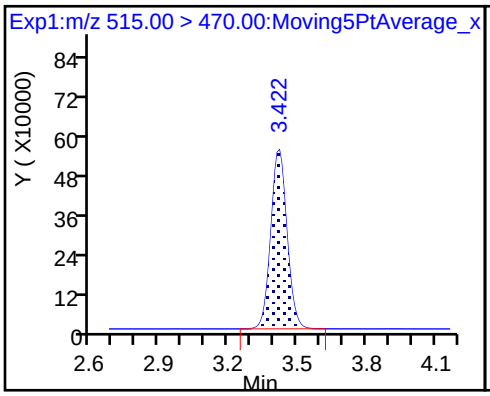
D 26 M2-8:2FTS



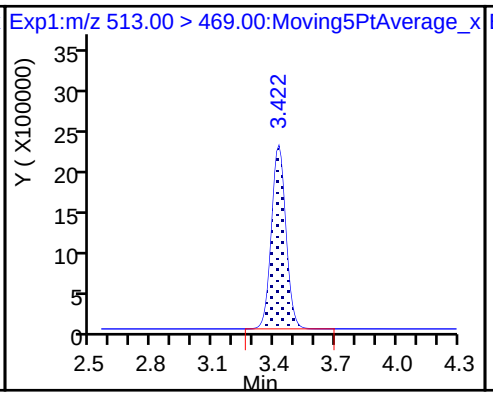
25 Sodium 1H,1H,2H,2H-perfluorodecane



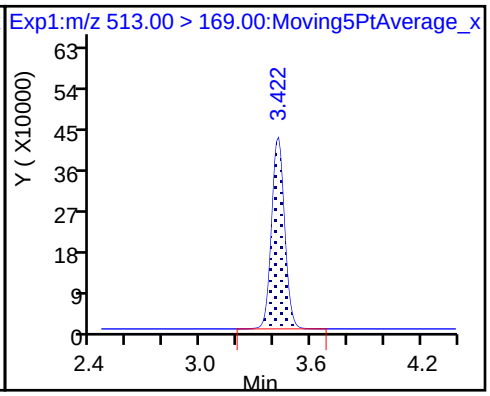
D 23 13C2 PFDA



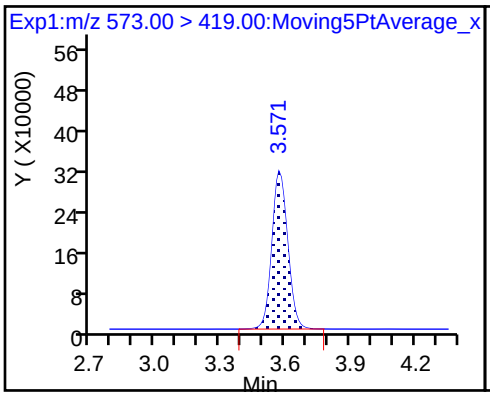
24 Perfluorodecanoic acid



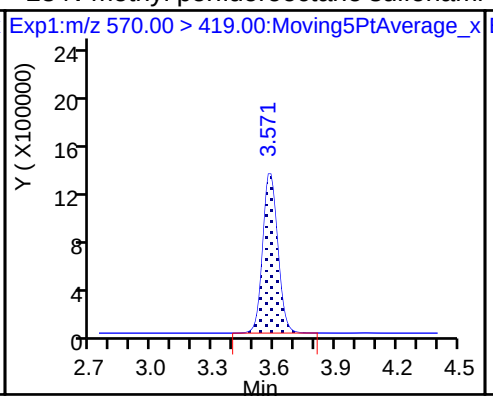
24 Perfluorodecanoic acid



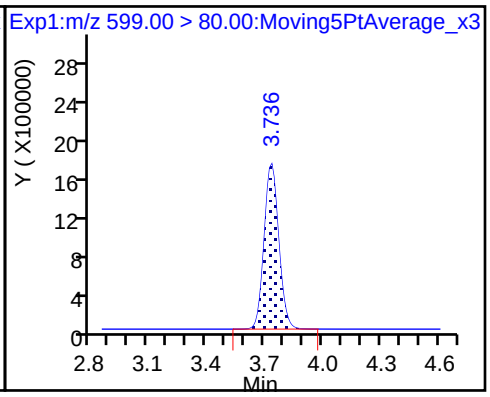
D 27 d3-NMeFOSAA



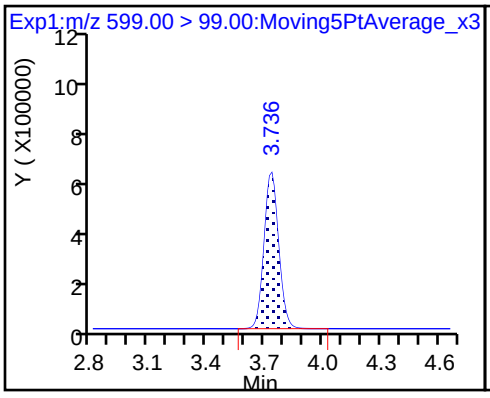
28 N-methyl perfluorooctane sulfonami



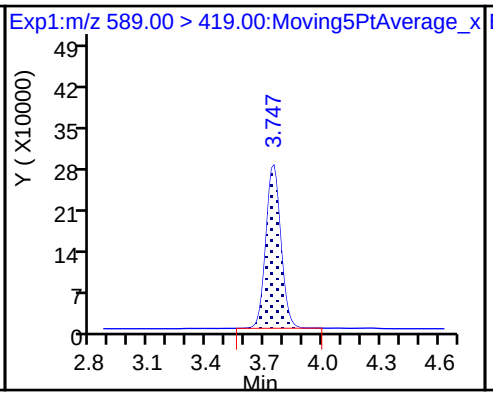
29 Perfluorodecane Sulfonic acid



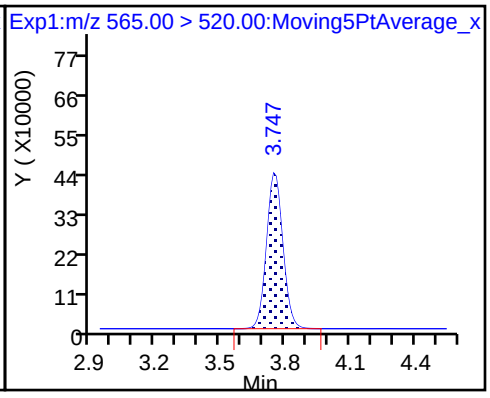
29 Perfluorodecane Sulfonic acid



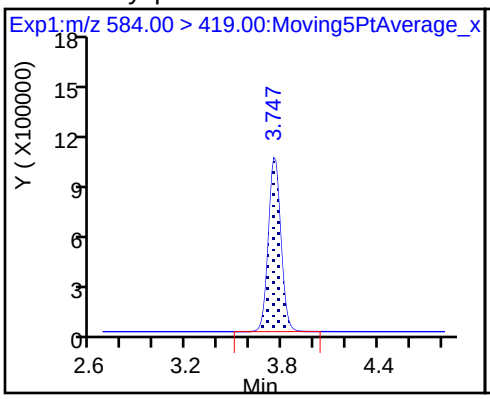
D 32 d5-NEtFOSAA



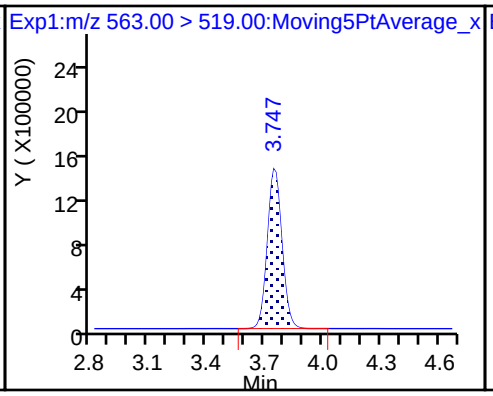
D 30 13C2 PFUnA



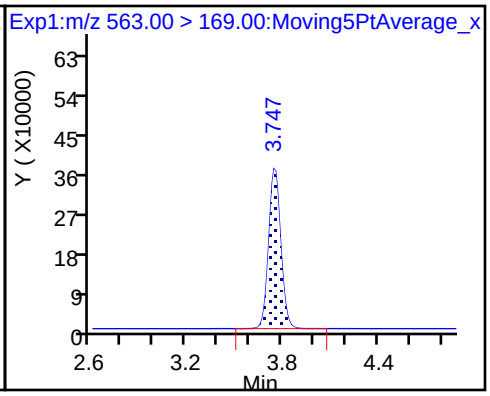
33 N-ethyl perfluorooctane sulfonamid



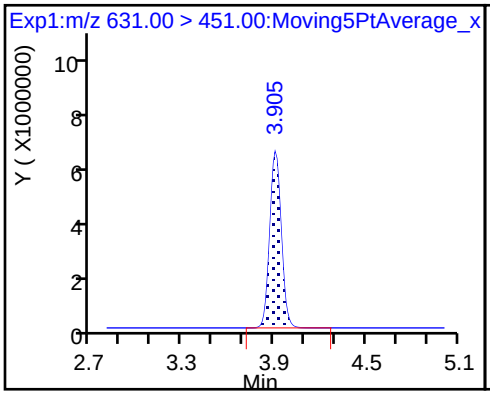
31 Perfluoroundecanoic acid



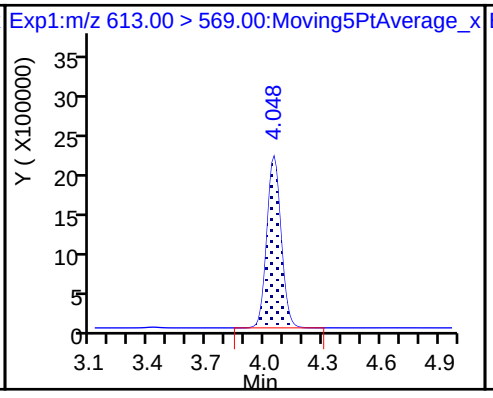
31 Perfluoroundecanoic acid



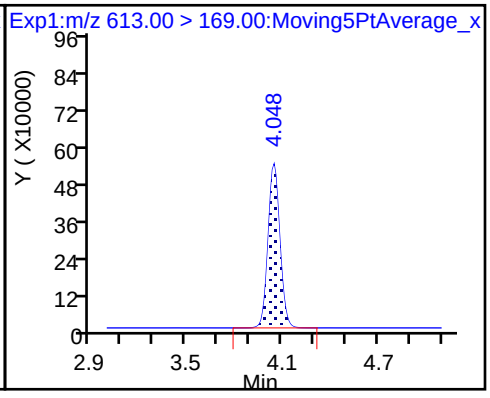
66 11-Chloroeicosafluoro-3-oxaundecan



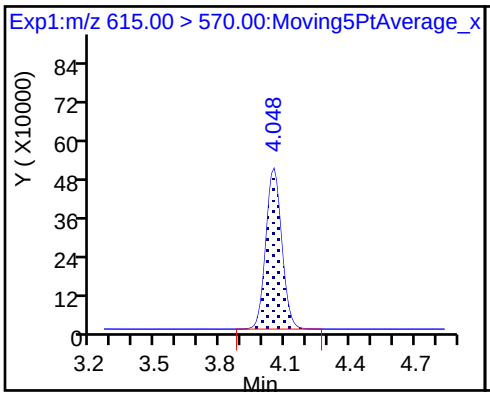
37 Perfluorododecanoic acid



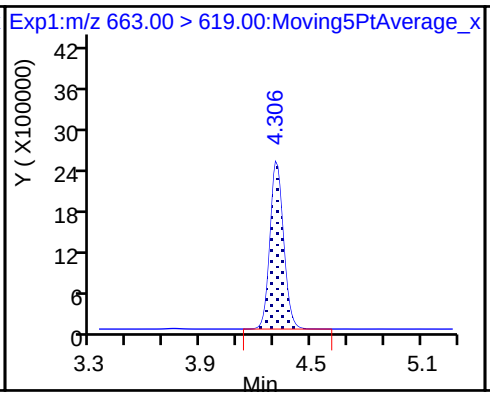
37 Perfluorododecanoic acid



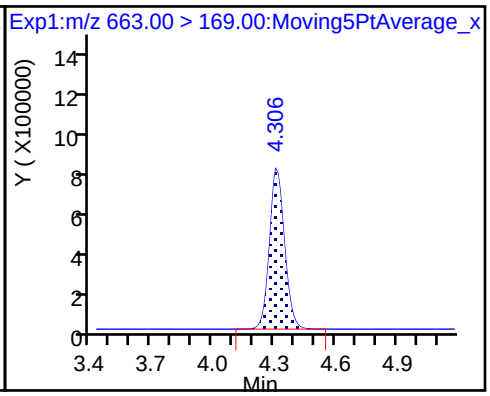
D 36 13C2 PFDoA



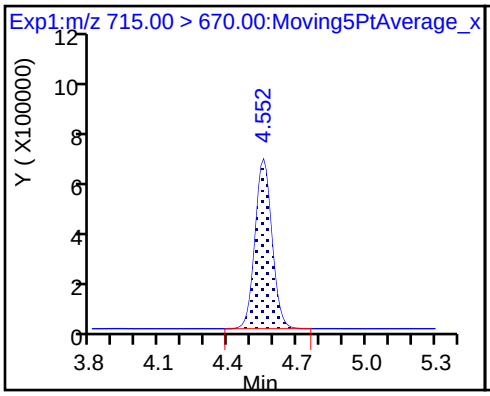
41 Perfluorotridecanoic acid



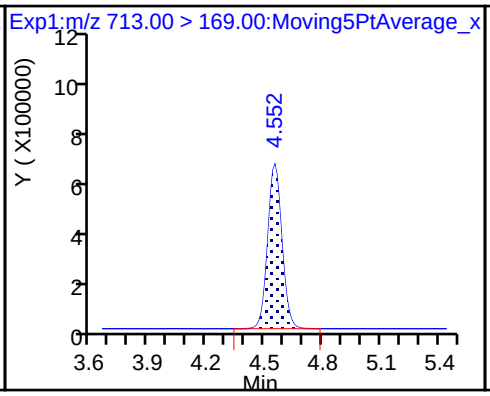
41 Perfluorotridecanoic acid



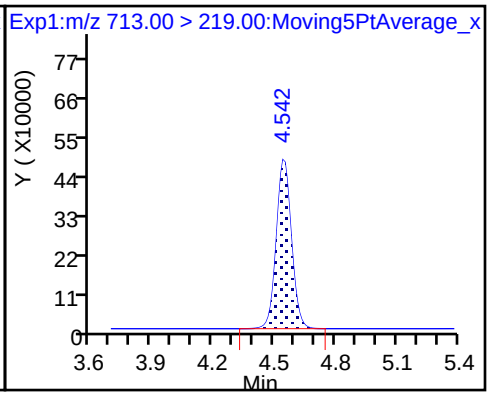
D 43 13C2-PFTeDA



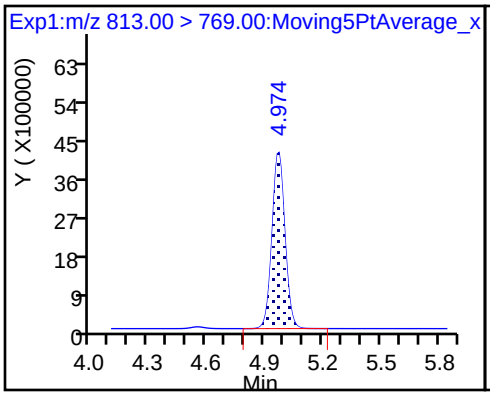
42 Perfluorotetradecanoic acid



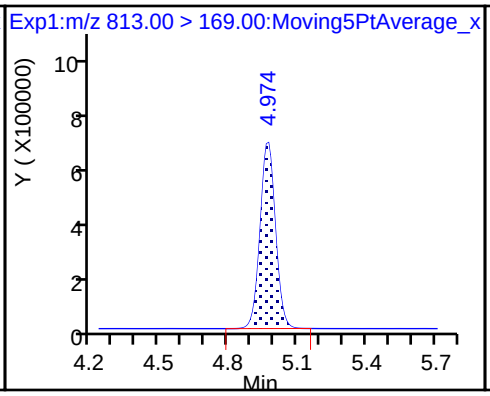
42 Perfluorotetradecanoic acid



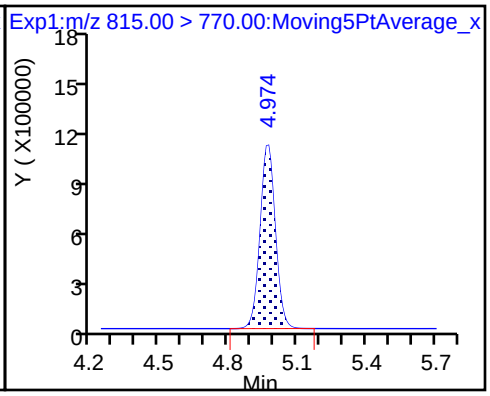
45 Perfluorohexadecanoic acid



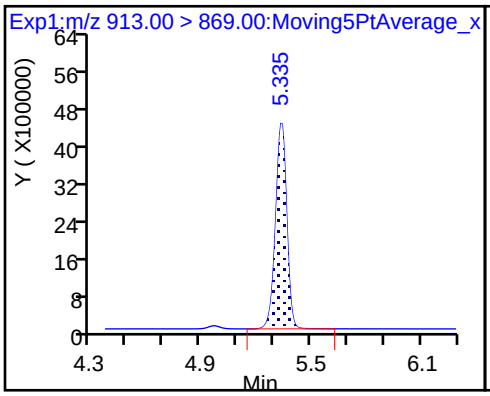
45 Perfluorohexadecanoic acid



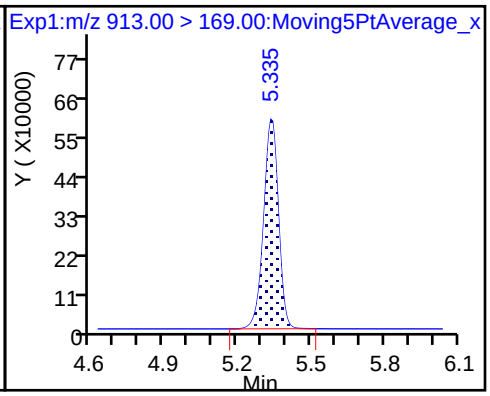
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: ICV 320-214175/10 Calibration Date: 03/21/2018 19:26

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.21LLICALAX_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9422	0.9615		2.55	2.50	2.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.128	1.089		2.42	2.50	-3.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	77.70	78.20		2.23	2.21	0.6	50.0
4:2 FTS	AveID	16.15	15.34		2.22	2.34	-5.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.022	0.9816		2.40	2.50	-4.0	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.059		2.56	2.50	2.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.113	1.067		2.19	2.28	-4.1	40.0
6:2FTS	AveID	1.744	1.722		2.35	2.38	-1.2	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.130	1.152		2.55	2.50	2.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.281	1.320		2.45	2.38	3.1	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.114	1.152		2.39	2.31	3.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.998	1.042		2.61	2.50	4.5	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9858	1.011		2.56	2.50	2.6	40.0
8:2FTS	AveID	1.276	1.320		2.48	2.40	3.4	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9881	1.017		2.57	2.50	2.9	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.001	1.043		2.61	2.50	4.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6800	0.7758		2.75	2.41	14.1	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9342	0.9386		2.51	2.50	0.5	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8622	0.7832		2.27	2.50	-9.2	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.046	1.118		2.67	2.50	6.9	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.101	1.202		2.73	2.50	9.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2478	0.2294		2.31	2.50	-7.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9290		2.53	2.50	1.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9246	0.9401		2.54	2.50	1.7	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	None				0.0100	2.36	-100.0*	50.0
Adona	None				0.0100	2.50	-100.0*	50.0
HFPO-DA (GenX)	None				0.0100	2.50	-100.0*	40.0
13C4 PFBA	Ave	1.266	1.264		2.50	2.50	-0.1	50.0
13C5 PFPeA	Ave	0.8399	0.8702		2.59	2.50	3.6	50.0
13C3-PFBS	Ave	0.0192	0.0199		2.41	2.33	3.6	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: ICV 320-214175/10 Calibration Date: 03/21/2018 19:26

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.21LLICALAX_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-4:2FTS	Ave	0.1324	0.1327		2.34	2.34	0.3	50.0
13C2 PFHxA	Ave	0.9288	0.9535		2.57	2.50	2.7	50.0
13C4-PFHpA	Ave	0.9164	0.9262		2.53	2.50	1.1	50.0
18O2 PFHxS	Ave	1.130	1.159		2.43	2.37	2.6	50.0
M2-6:2FTS	Ave	0.1900	0.1878		2.35	2.38	-1.2	40.0
13C4 PFOA	Ave	0.9374	0.9430		2.52	2.50	0.6	50.0
13C4 PFOS	Ave	0.8225	0.8093		2.35	2.39	-1.6	50.0
13C5 PFNA	Ave	0.8266	0.8343		2.52	2.50	0.9	50.0
13C8 FOSA	Ave	1.109	1.126		2.54	2.50	1.5	50.0
M2-8:2FTS	Ave	0.2565	0.2604		2.43	2.40	1.5	40.0
13C2 PFDA	Ave	0.7245	0.7523		2.60	2.50	3.8	50.0
d3-NMeFOSAA	Ave	0.3814	0.4010		2.63	2.50	5.1	50.0
13C2 PFUnA	Ave	0.6482	0.6709		2.59	2.50	3.5	50.0
d5-NEtFOSAA	Ave	0.4345	0.4611		2.65	2.50	6.1	50.0
13C2 PFDoA	Ave	0.7355	0.7399		2.52	2.50	0.6	50.0
13C2-PFTeDA	Ave	0.8983	0.9540		2.66	2.50	6.2	50.0
13C2-PFHxDA	Ave	1.473	1.524		2.59	2.50	3.5	50.0
13C3 HFPO-DA	None				0.000000	2.50	-100.0*	50.0

FORM VII 537 (modified)

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 21-Mar-2018 19:26:58 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 22-Mar-2018 08:44:33 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK059

First Level Reviewer: roycea Date: 22-Mar-2018 08:34:50

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.446	1.447	-0.001	0.537	6375865	2.50		99.9	65785	
2 Perfluorobutyric acid										
212.90 > 169.00	1.452	1.449	0.003	1.004	6130285	2.55			2673	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.709	1.710	-0.001	1.000	4780167	2.42			2819	
D 3 13C5-PFPeA										
267.90 > 223.00	1.709	1.710	-0.001	0.634	4387769	2.59		104	120384	
D 47 13C3-PFBS										
301.90 > 83.00	1.744	1.743	0.001	0.647	93121	2.41		104	803	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.744	1.745	-0.001	1.000	6929756	2.23			34258	
298.90 > 99.00	1.744	1.745	-0.001	1.000	2824316		2.45(1.25-3.74)		16599	
D 60 M2-4:2FTS										
329.00 > 81.00	1.955	1.959	-0.004	0.726	625050	2.34		100	8149	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.955	1.962	-0.007	1.000	1436368	2.22			86809	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.997	1.998	-0.001	1.000	4719162	2.40			15114	
313.00 > 119.00	1.997	1.998	-0.001	1.000	441716		10.68(5.03-15.10)		13104	
D 7 13C2 PFHxA										
315.00 > 270.00	1.997	1.998	-0.001	0.741	4807774	2.57		103	122947	
D 9 13C4-PFHpA										
367.00 > 322.00	2.328	2.333	-0.005	0.864	4670113	2.53		101	98504	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.328	2.335	-0.007	1.000	4946435	2.56			10531	
363.00 > 169.00	2.328	2.335	-0.007	1.000	1933812		2.56(1.13-3.40)		20438	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.341	2.346	-0.005	1.000	5687997	2.19			28544	
399.00 > 99.00	2.341	2.346	-0.005	1.000	1847781		3.08(1.50-4.49)		6889	
D 11 18O2 PFHxS										
403.00 > 84.00	2.341	2.348	-0.007	0.869	5529570	2.43		103	78148	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.671	2.672	-0.001	1.000	1549124	2.35			45102	
D 12 M2-6:2FTS										
429.00 > 81.00	2.671	2.672	-0.001	0.991	899400	2.35		98.8	20841	
* 62 13C2-PFOA										
415.00 > 370.00	2.695	2.695	0.0		5042269	2.50			69178	
D 14 13C4 PFOA										
417.00 > 372.00	2.695	2.695	0.0	1.000	4754986	2.52		101	74531	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.695	2.697	-0.002	1.000	5479179	2.55			1995	
413.00 > 169.00	2.695	2.697	-0.002	1.000	2731487		2.01(0.84-2.52)		6729	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.703	2.703	0.0	1.000	5118411	2.45			49555	
449.00 > 99.00	2.703	2.703	0.0	1.000	1344486		3.81(1.94-5.82)		14152	
D 18 13C4 PFOS										
503.00 > 80.00	3.065	3.068	-0.003	1.137	3900957	2.35		98.4	30995	
D 19 13C5 PFNA										
468.00 > 423.00	3.065	3.070	-0.005	1.137	4206881	2.52		101	69098	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.065	3.070	-0.005	1.000	4349012	2.39			13682	
499.00 > 99.00	3.065	3.070	-0.005	1.000	929853		4.68(2.31-6.93)		10185	
20 Perfluorononanoic acid										
463.00 > 419.00	3.072	3.072	0.0	1.002	4384621	2.61			6586	
463.00 > 169.00	3.072	3.072	0.0	1.002	1021043		4.29(1.90-5.69)		25043	
D 21 13C8 FOSA										
506.00 > 78.00	3.397	3.396	0.001	1.261	5679191	2.54		102	42851	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.397	3.397	0.0	1.000	5742102	2.56			54328	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.424	3.426	-0.002	1.000	1663512	2.48			30818	
D 26 M2-8:2FTS										
529.00 > 81.00	3.424	3.426	-0.002	1.271	1257938	2.43		102	30914	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.433	3.435	-0.002	1.000	3857119	2.57			20699	
513.00 > 169.00	3.433	3.435	-0.002	1.000	642231		6.01(2.36-7.09)		14683	
D 23 13C2 PFDA										
515.00 > 470.00	3.433	3.435	-0.002	1.274	3793489	2.60		104	78039	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.589	3.591	-0.002	1.332	2021939	2.63		105	30702	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.589	3.594	-0.005	1.000	2108804	2.61			12474	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.748	3.749	-0.001	1.000	3054904	2.75			64961	
599.00 > 99.00	3.748	3.749	-0.001	1.000	1042020		2.93(1.39-4.16)		31253	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.758	3.759	-0.001	1.395	2324977	2.65		106	11021	
D 30 13C2 PFUnA										
565.00 > 520.00	3.758	3.768	-0.010	1.395	3383068	2.59		104	54133	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.768	-0.010	1.000	2182165	2.51			31564	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.769	3.768	0.001	1.003	2649764	2.27			13982	
563.00 > 169.00	3.769	3.768	0.001	1.003	676794		3.92(2.12-6.36)		27181	
D 36 13C2 PFDoA										
615.00 > 570.00	4.056	4.066	-0.010	1.505	3730503	2.51		101	31020	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.056	4.068	-0.012	1.000	4172212	2.67			3940	
613.00 > 169.00	4.056	4.068	-0.012	1.000	959658		4.35(2.13-6.40)		18022	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.318	4.329	-0.011	1.000	4483777	2.73			3252	
663.00 > 169.00	4.318	4.329	-0.011	1.000	1408477		3.18(1.25-3.76)		18234	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.564	4.568	-0.004	1.694	4810393	2.65		106	33667	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.564	4.571	-0.007	1.000	1103419	2.31			12823	
713.00 > 219.00	4.554	4.571	-0.017	0.998	846648		1.30(0.71-2.13)		16046	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.981	4.987	-0.006	1.848	7683636	2.59		103	21190	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.981	4.989	-0.008	1.000	7138289	2.53			2182	
813.00 > 169.00	4.981	4.989	-0.008	1.000	1127804		6.33(2.86-8.58)		8335	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.344	5.354	-0.010	1.000	7223481	2.54			2062	
913.00 > 169.00	5.344	5.354	-0.010	1.000	891804		8.10(3.83-11.48)		5703	

Reagents:

LCPFCIC_FULL_00011 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:44:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_010.d

Injection Date: 21-Mar-2018 19:26:58 Instrument ID: A8_N

Lims ID: ICV Full

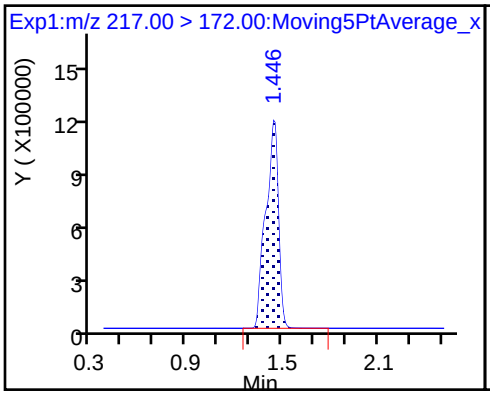
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 18 Worklist Smp#: 10

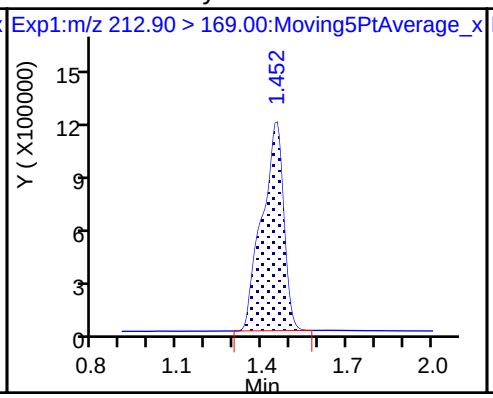
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

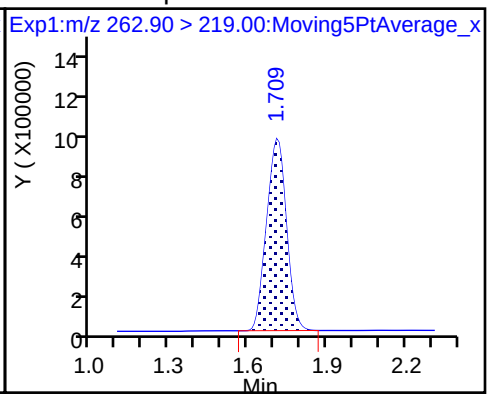
D 1 13C4 PFBA



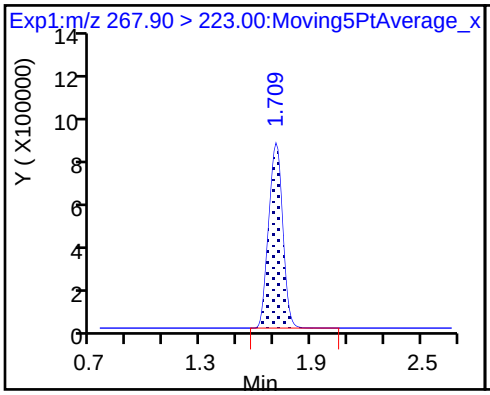
2 Perfluorobutyric acid



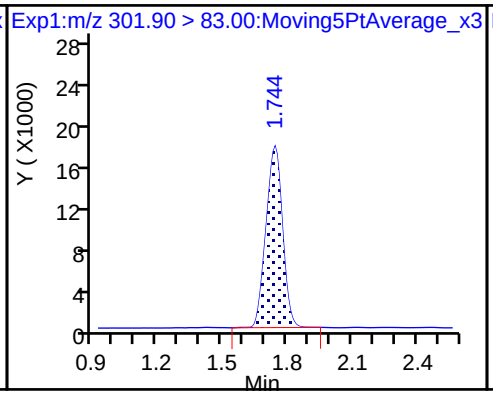
4 Perfluoropentanoic acid



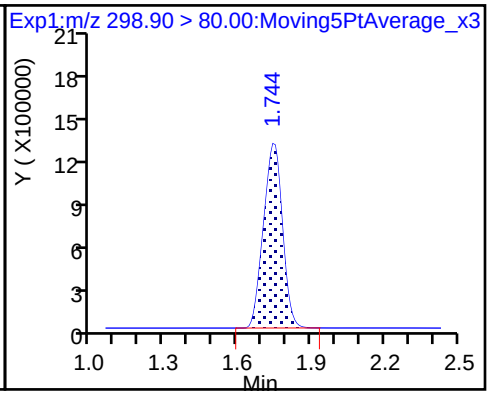
D 3 13C5-PFPeA



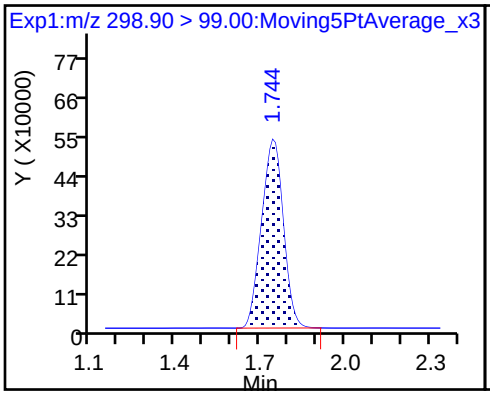
D 47 13C3-PFBS



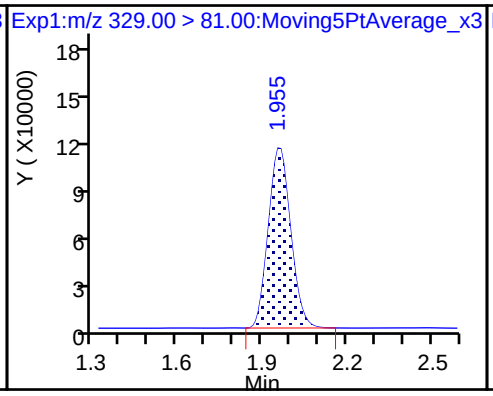
5 Perfluorobutanesulfonic acid



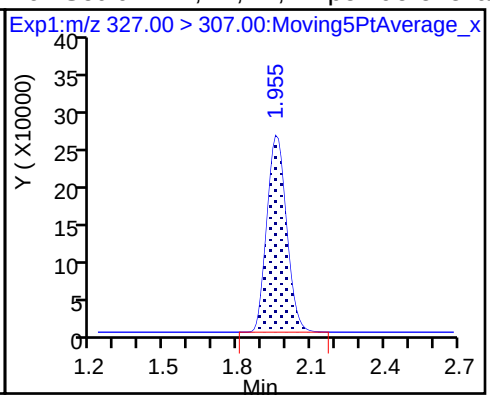
5 Perfluorobutanesulfonic acid



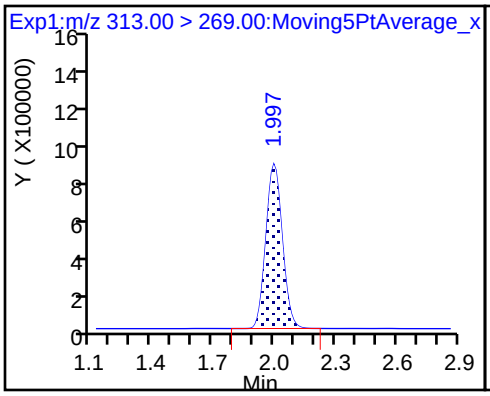
D 60 M2-4:2FTS



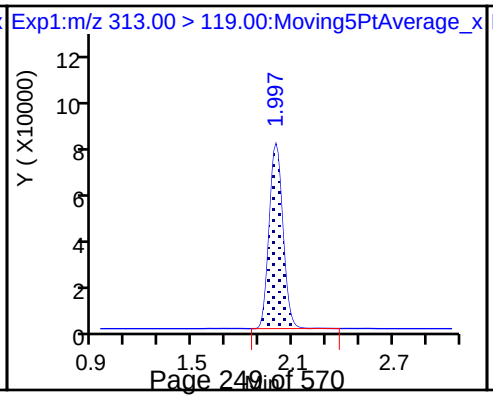
61 Sodium 1H,1H,2H,2H-perfluorohexane



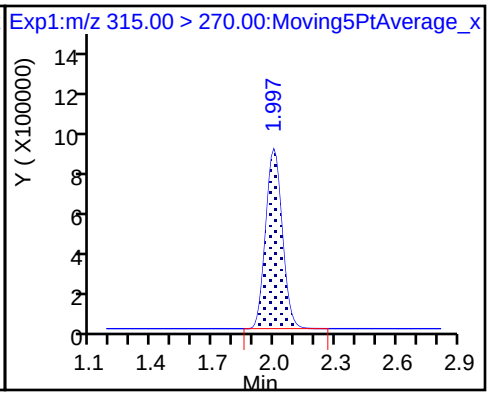
6 Perfluorohexanoic acid



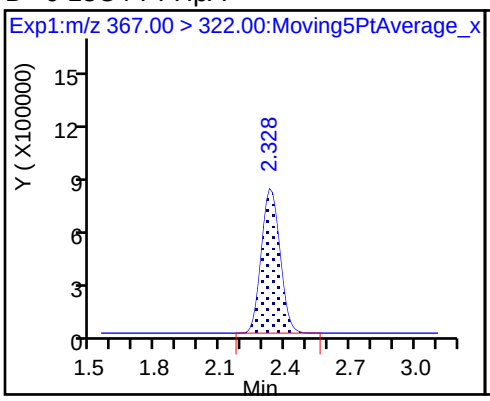
6 Perfluorohexanoic acid



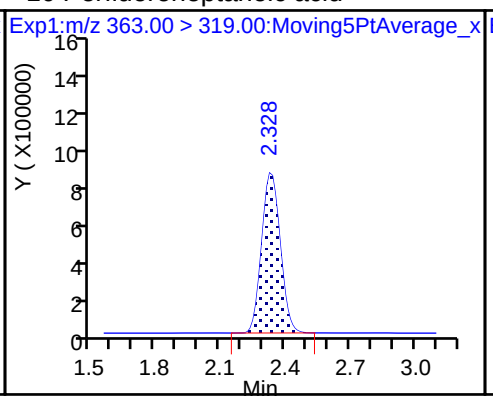
D 7 13C2 PFHxA



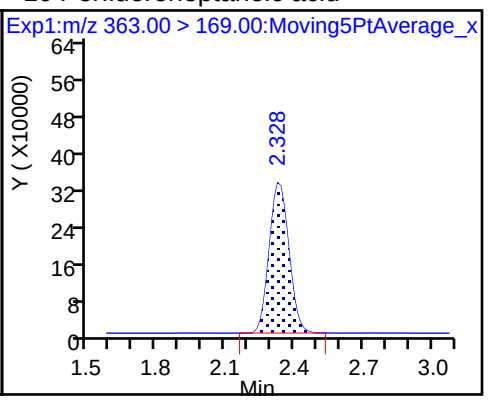
D 9 13C4-PFHpA



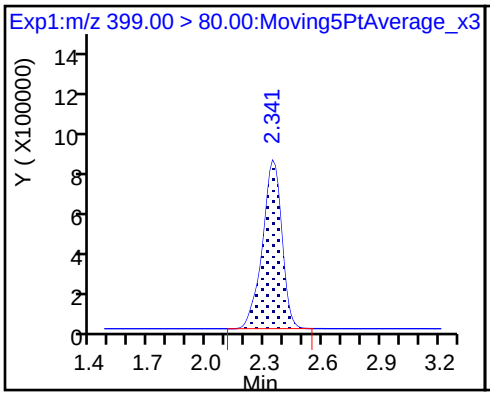
10 Perfluoroheptanoic acid



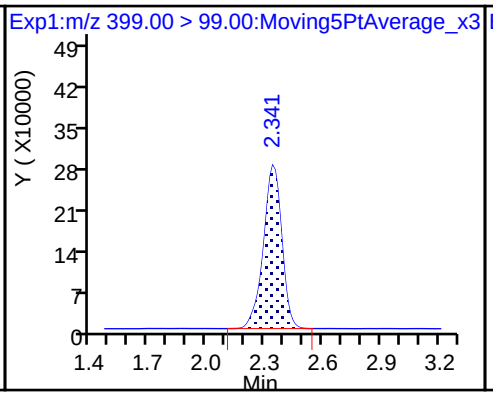
10 Perfluoroheptanoic acid



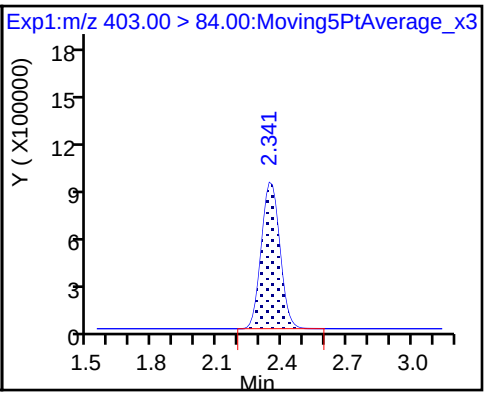
8 Perfluorohexanesulfonic acid



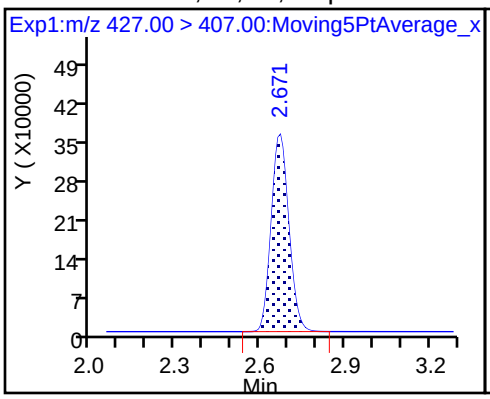
8 Perfluorohexanesulfonic acid



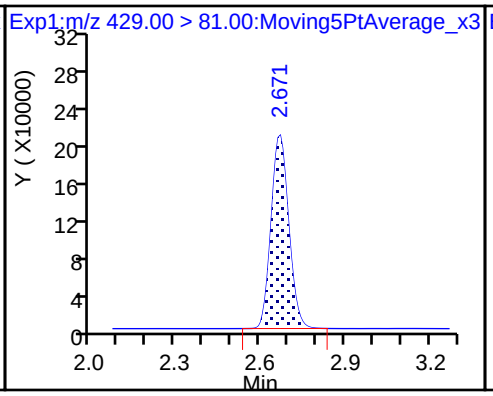
D 11 18O2 PFHxS



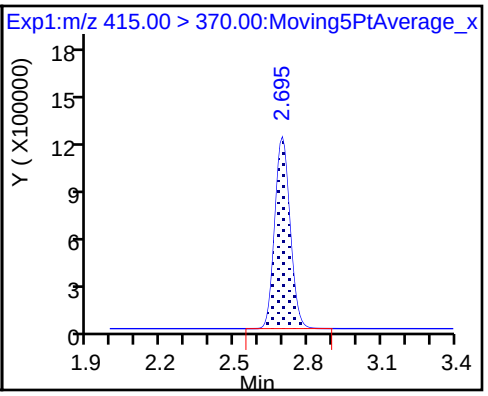
13 Sodium 1H,1H,2H,2H-perfluorooctan



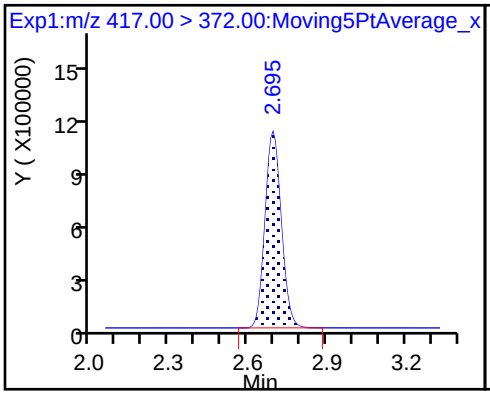
D 12 M2-6:2FTS



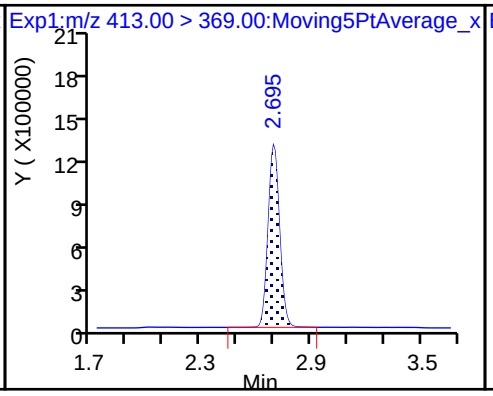
* 62 13C2-PFOA



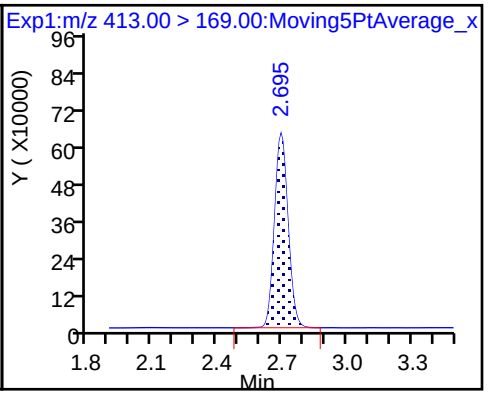
D 14 13C4 PFOA



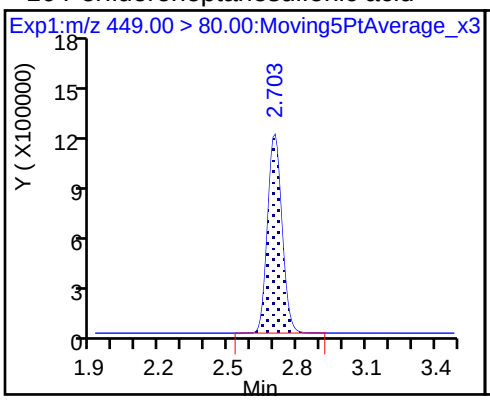
15 Perfluorooctanoic acid



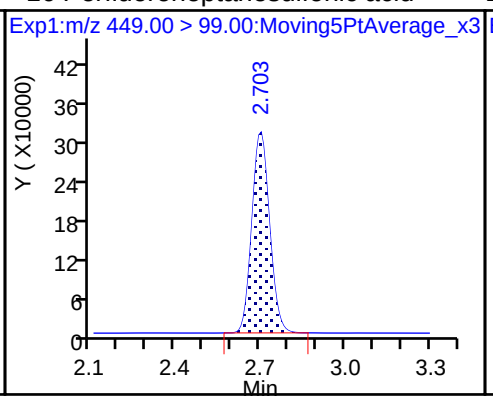
15 Perfluorooctanoic acid



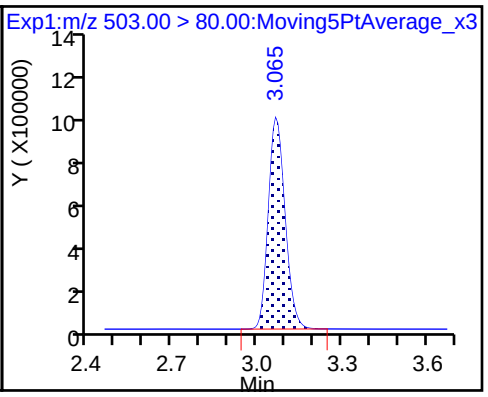
16 Perfluoroheptanesulfonic acid



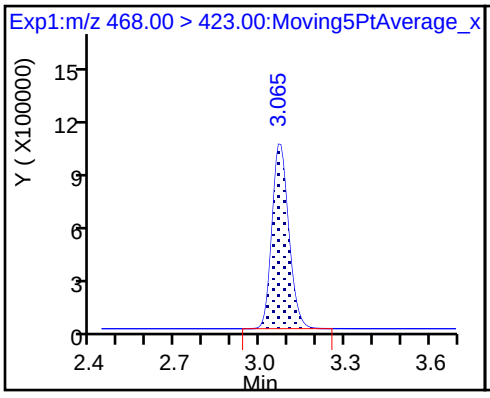
16 Perfluoroheptanesulfonic acid



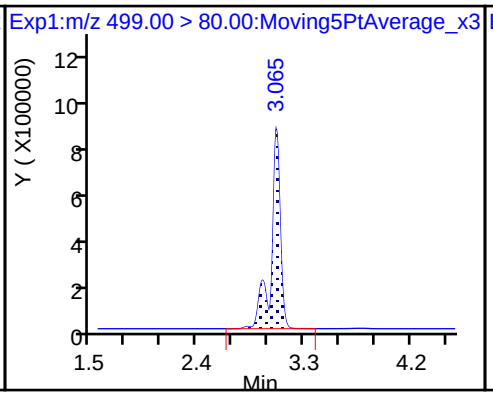
D 18 13C4 PFOS



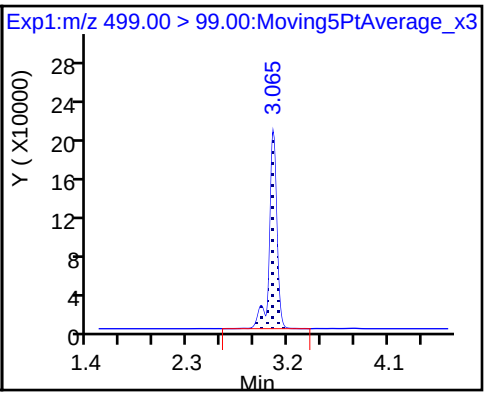
D 19 13C5 PFNA



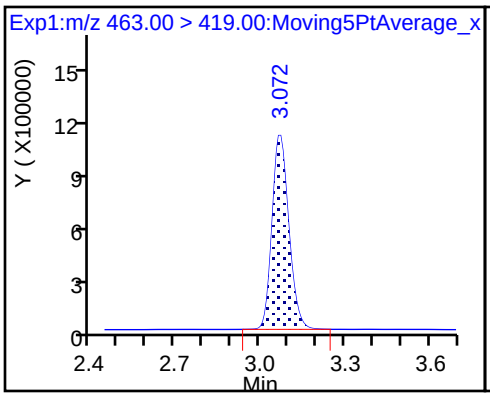
17 Perfluorooctane sulfonic acid



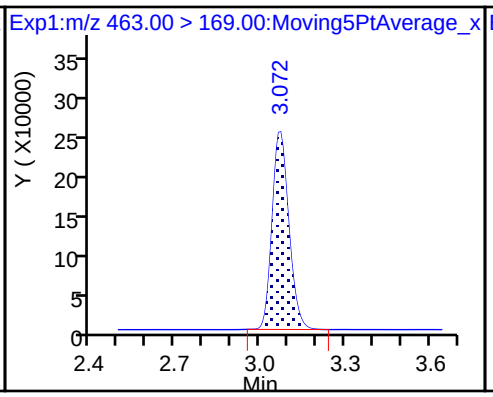
17 Perfluorooctane sulfonic acid



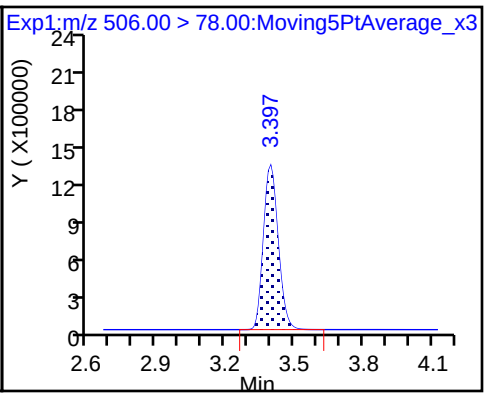
20 Perfluorononanoic acid



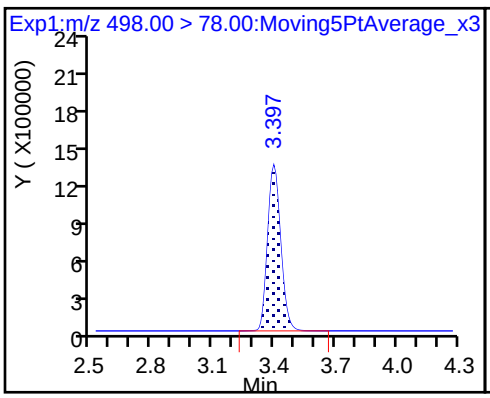
20 Perfluorononanoic acid



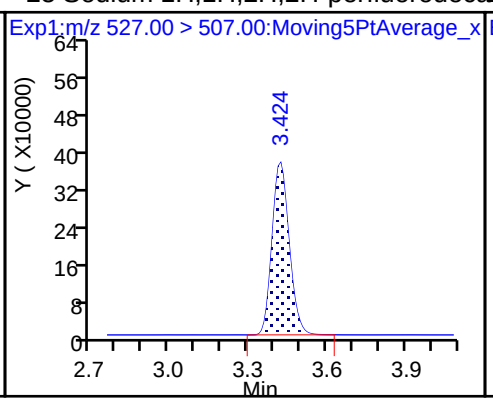
D 21 13C8 FOSA



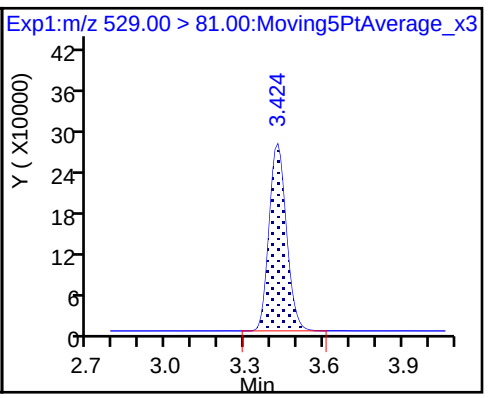
22 Perfluorooctane Sulfonamide



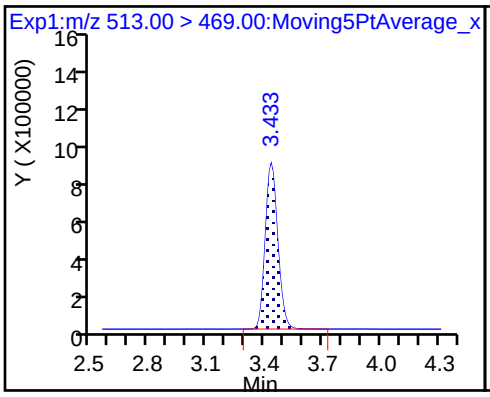
25 Sodium 1H,1H,2H,2H-perfluorodecane



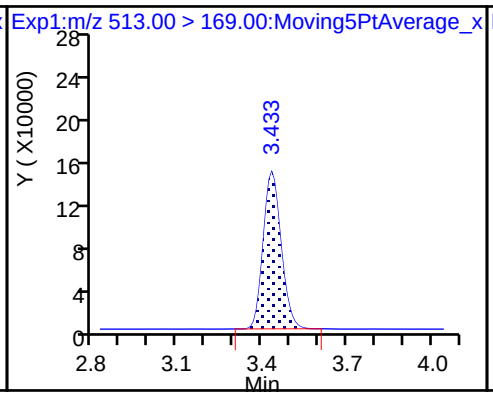
D 26 M2-8:2FTS



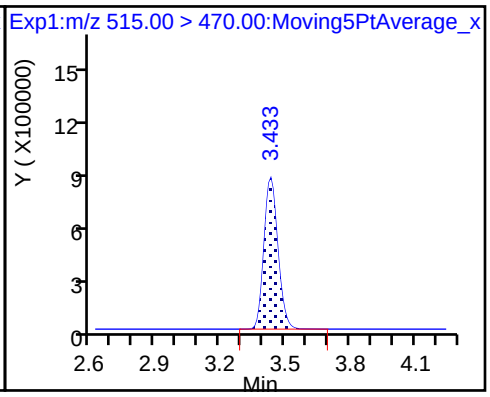
24 Perfluorodecanoic acid



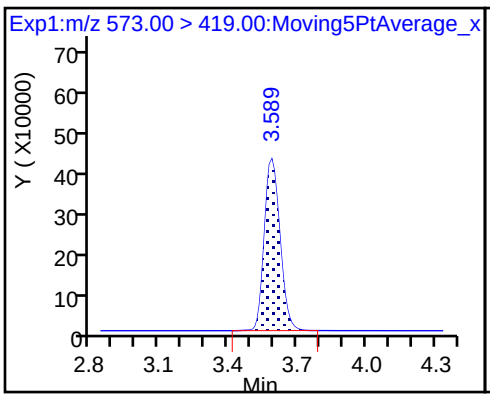
24 Perfluorodecanoic acid



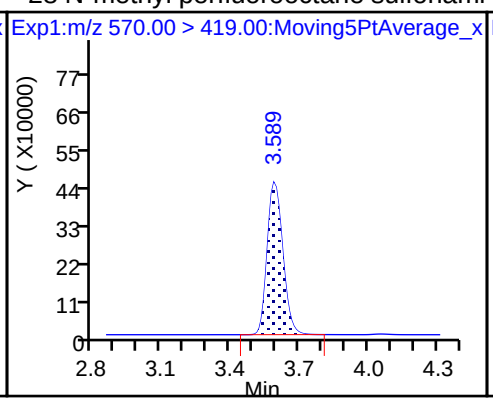
D 23 13C2 PFDA



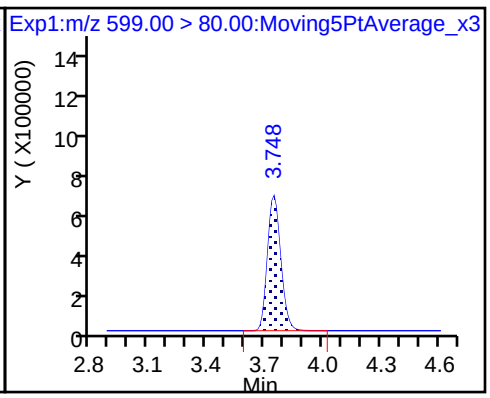
D 27 d3-NMeFOSAA



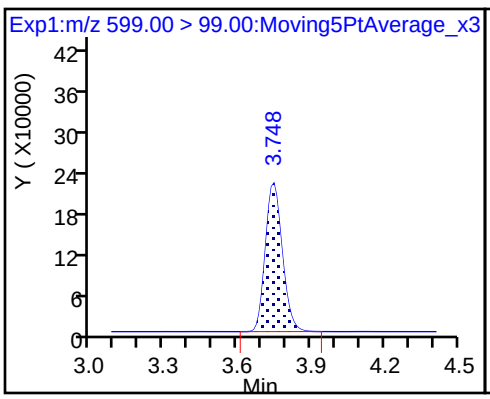
28 N-methyl perfluorooctane sulfonami



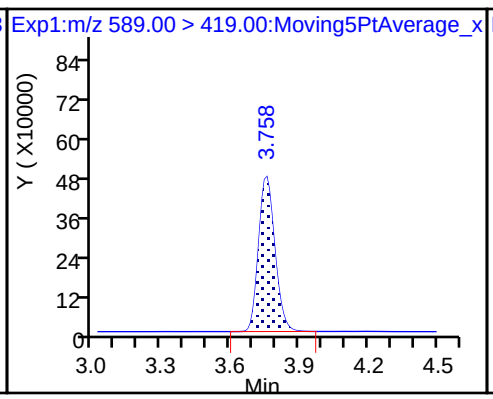
29 Perfluorodecane Sulfonic acid



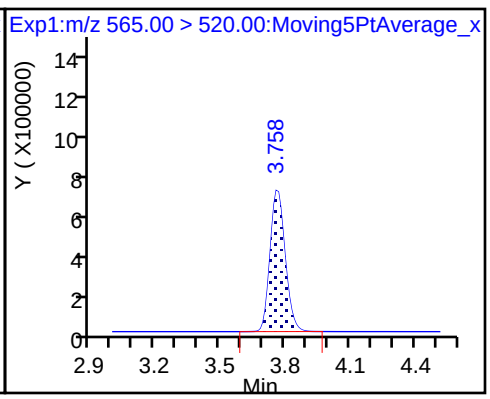
29 Perfluorodecane Sulfonic acid



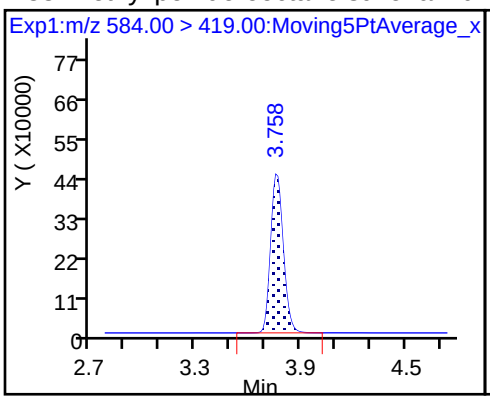
D 32 d5-NEtFOSAA



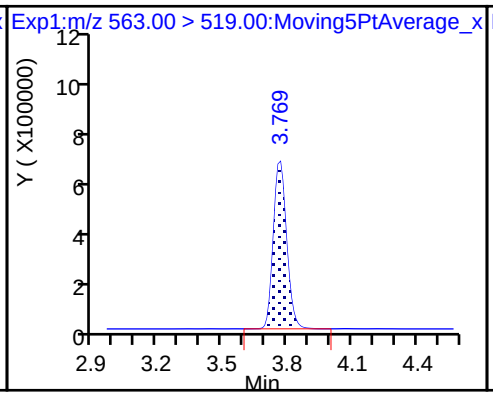
D 30 13C2 PFUnA



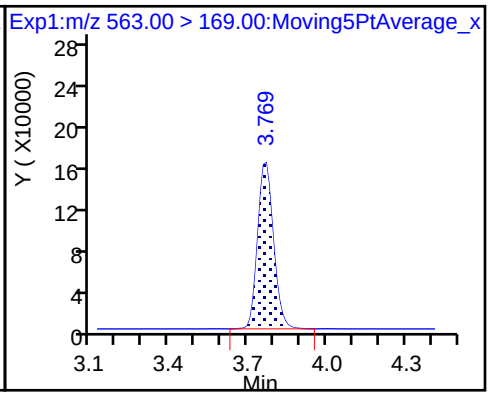
33 N-ethyl perfluorooctane sulfonamid



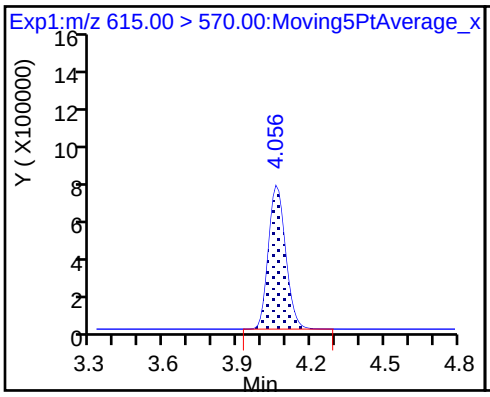
31 Perfluoroundecanoic acid



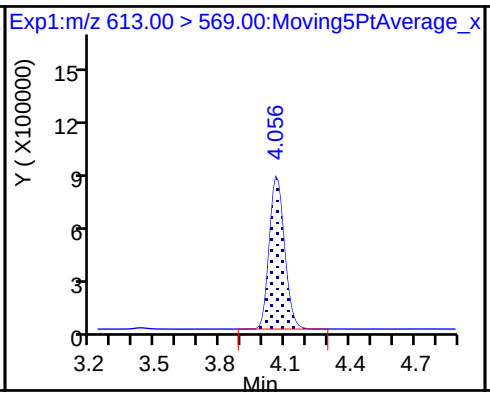
31 Perfluoroundecanoic acid



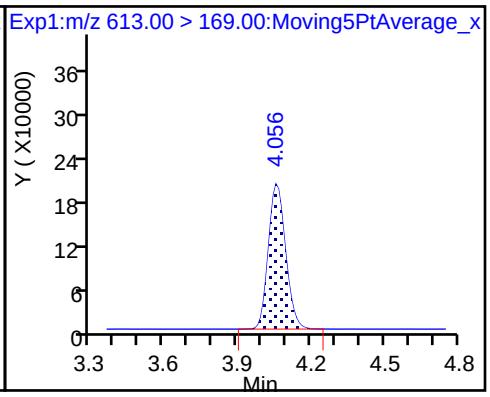
D 36 13C2 PFDoA



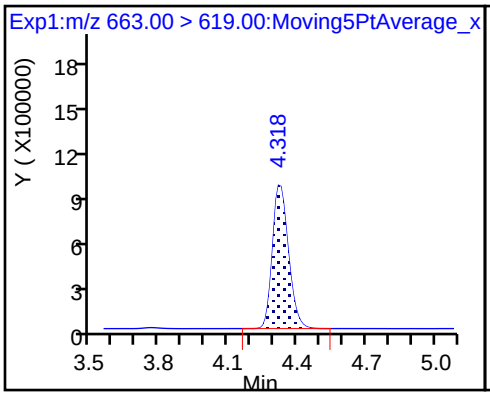
37 Perfluorododecanoic acid



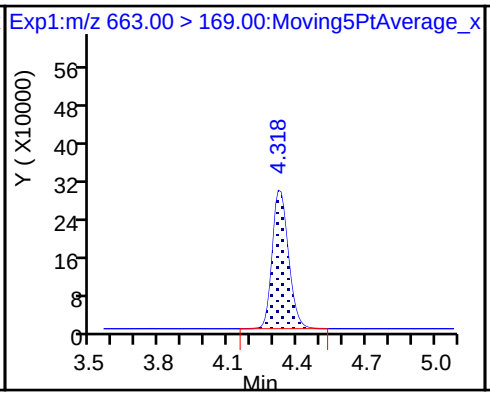
37 Perfluorododecanoic acid



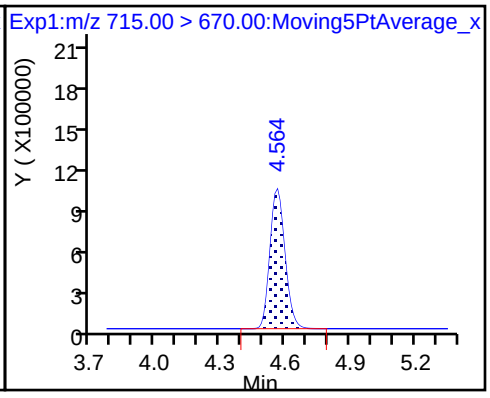
41 Perfluorotridecanoic acid



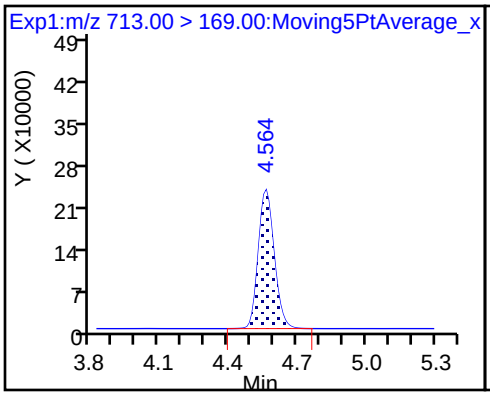
41 Perfluorotridecanoic acid



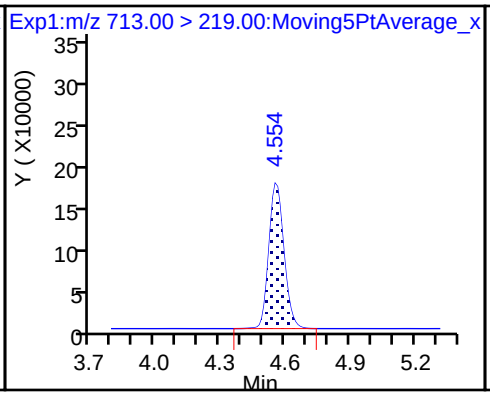
D 43 13C2-PFTeDA



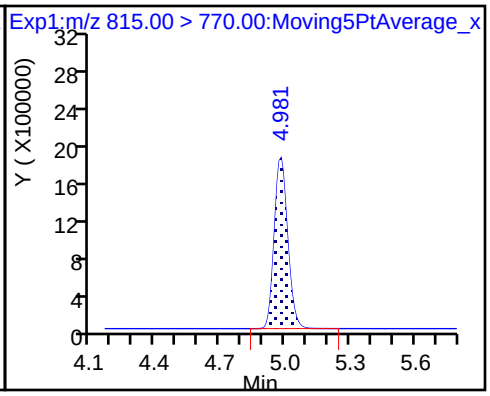
42 Perfluorotetradecanoic acid



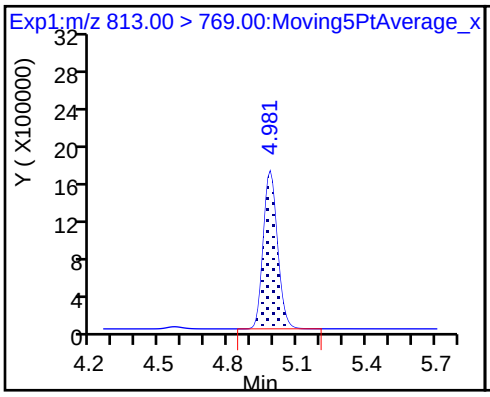
42 Perfluorotetradecanoic acid



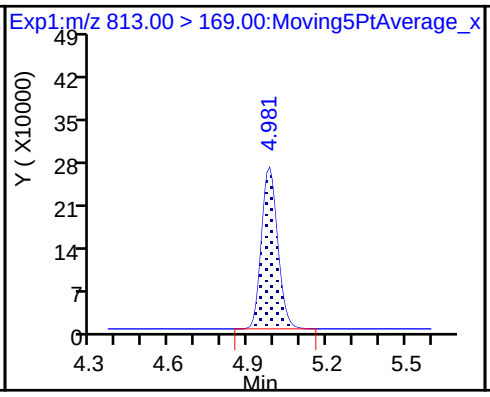
D 44 13C2-PFHxDA



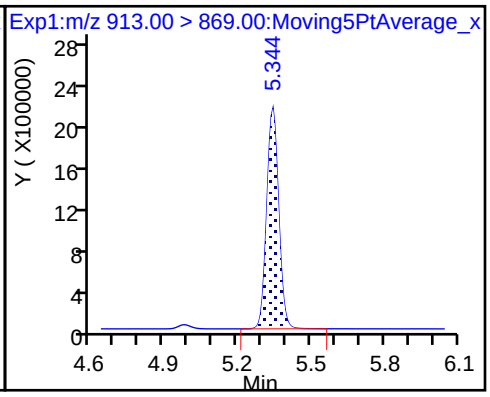
45 Perfluorohexadecanoic acid



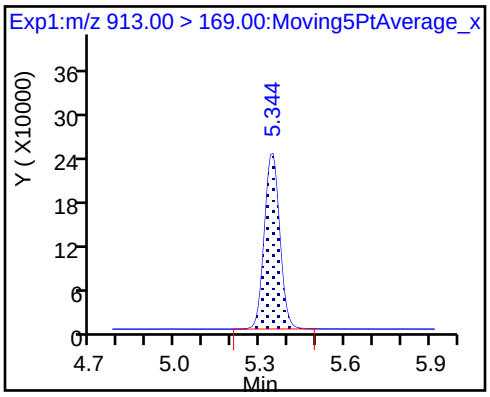
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-215294/2 Calibration Date: 03/28/2018 18:36

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9422	0.9469		0.0502	0.0500	0.5	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.128	1.089		0.0483	0.0500	-3.5	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	77.70	78.53		0.0447	0.0442	1.1	50.0
4:2 FTS	AveID	16.15	16.39		0.130	0.0467	1.5	
Perfluorohexanoic acid (PFHxA)	AveID	1.022	1.091		0.0534	0.0500	6.8	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.193		0.0576	0.0500	15.3	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.113	1.224		0.0500	0.0455	10.0	50.0
6:2FTS	AveID	1.744	1.882		0.0512	0.0474	7.9	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.130	1.207		0.0534	0.0500	6.8	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.281	1.300		0.0483	0.0476	1.5	50.0
Perfluorononanoic acid (PFNA)	AveID	0.998	0.9909		0.0497	0.0500	-0.7	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.114	1.091		0.0454	0.0464	-2.0	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9858	0.9691		0.0492	0.0500	-1.7	50.0
8:2FTS	AveID	1.276	1.356		0.0509	0.0479	6.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9881	1.052		0.0532	0.0500	6.5	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.001	1.050		0.0780	0.0500	4.9	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6800	0.6447		0.0457	0.0482	-5.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9342	0.9449		0.0506	0.0500	1.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8622	0.8990		0.0521	0.0500	4.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.046	0.9281		0.0443	0.0500	-11.3	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.101	1.079		0.0490	0.0500	-2.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2478	0.2565		0.0518	0.0500	3.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.351		0.0500	0.0500	0.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9246	1.012		0.0547	0.0500	9.5	50.0
13C4 PFBA	Ave	1.266	1.321		2.61	2.50	4.4	50.0
13C5 PFPeA	Ave	0.8399	0.8840		2.63	2.50	5.3	50.0
13C3-PFBS	Ave	0.0192	0.0196		2.37	2.33	2.1	50.0
M2-4:2FTS	Ave	0.1324	0.1434		2.53	2.34	8.3	50.0
13C2 PFHxA	Ave	0.9288	0.9493		2.56	2.50	2.2	50.0
13C4-PFHpA	Ave	0.9164	0.9261		2.53	2.50	1.1	50.0
18O2 PFHxS	Ave	1.130	1.196		2.50	2.37	5.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-215294/2 Calibration Date: 03/28/2018 18:36

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-6:2FTS	Ave	0.1900	0.2110		2.64	2.38	11.0	50.0
13C4 PFOA	Ave	0.9374	0.9443		2.52	2.50	0.7	50.0
13C4 PFOS	Ave	0.8225	0.8388		2.44	2.39	2.0	50.0
13C5 PFNA	Ave	0.8266	0.7932		2.40	2.50	-4.0	50.0
13C8 FOSA	Ave	1.109	1.233		2.78	2.50	11.2	50.0
M2-8:2FTS	Ave	0.2565	0.2453		2.29	2.40	-4.4	50.0
13C2 PFDA	Ave	0.7245	0.6938		2.39	2.50	-4.2	50.0
d3-NMeFOSAA	Ave	0.3814	0.3349		2.20	2.50	-12.2	50.0
d5-NEtFOSAA	Ave	0.4345	0.3536		2.03	2.50	-18.6	50.0
13C2 PFUnA	Ave	0.6482	0.6212		2.40	2.50	-4.2	50.0
13C2 PFDoA	Ave	0.7355	0.6779		2.30	2.50	-7.8	50.0
13C2-PFTeDA	Ave	0.8983	0.7735		2.15	2.50	-13.9	50.0
13C2-PFHxDA	Ave	1.473	1.165		1.98	2.50	-20.9	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 28-Mar-2018 18:36:11 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:24:56 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:23:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.447	1.441	0.006	0.529	6326738	2.61		104	111314	
2 Perfluorobutyric acid										
212.90 > 169.00	1.447	1.446	0.001	1.000	119810	0.0502		100	44.4	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.718	1.717	0.001	1.000	92159	0.0483		96.5	32.6	
D 3 13C5-PFPeA										
267.90 > 223.00	1.718	1.718	0.0	0.628	4233192	2.63		105	139422	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.754	-0.001	0.641	87156	2.37		102	570	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.761	0.001	1.005	130112	0.0447		101	88.7	
298.90 > 99.00	1.762	1.761	0.001	1.005	56676		2.30(1.25-3.74)		86.8	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.976	1.975	0.001	1.000	28688	0.0474		101	1785	
D 60 M2-4:2FTS										
329.00 > 81.00	1.976	1.976	0.0	0.722	641430	2.53		108	10685	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.019	2.018	0.001	1.000	99239	0.0534		107	133	
313.00 > 119.00	2.019	2.018	0.001	1.000	8259		12.02(5.03-15.10)		109	
D 7 13C2 PFHxA										
315.00 > 270.00	2.019	2.019	0.0	0.738	4546099	2.56		102	166397	
D 9 13C4-PFHpA										
367.00 > 322.00	2.368	2.354	0.014	0.865	4434987	2.53		101	85653	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.368	2.367	0.001	1.000	105775	0.0576		115	69.8	
363.00 > 169.00	2.368	2.367	0.001	1.000	40329		2.62(1.13-3.40)		87.9	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.380	2.368	0.012	0.870	5417706	2.50		106	80451	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.380	2.379	0.001	1.000	127613	0.0500		110	782	
399.00 > 99.00	2.380	2.379	0.001	1.000	45102		2.83(1.50-4.49)		285	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.705	2.702	0.003	0.997	36050	0.0512		108	581	
D 12 M2-6:2FTS										
429.00 > 81.00	2.713	2.705	0.008	0.991	959719	2.64		111	36067	
D 14 13C4 PFOA										
417.00 > 372.00	2.736	2.728	0.008	1.000	4521824	2.52		101	130848	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.736	2.734	0.002	1.000	109120	0.0534		107	35.8	
413.00 > 169.00	2.736	2.734	0.002	1.000	53595		2.04(0.84-2.52)		233	
* 62 13C2-PFOA										
415.00 > 370.00	2.736	2.734	0.002		4788672	2.50			85891	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.744	2.742	0.002	1.000	99411	0.0483		101	3873	
449.00 > 99.00	2.744	2.742	0.002	1.000	28435		3.50(1.94-5.82)		725	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.120	3.111	0.009	1.003	81342	0.0454		98.0	214	
499.00 > 99.00	3.112	3.111	0.001	1.000	17366		4.68(2.31-6.93)		164	
20 Perfluorononanoic acid										
463.00 > 419.00	3.120	3.111	0.009	1.000	75278	0.0497		99.3	59.0	
463.00 > 169.00	3.120	3.111	0.009	1.000	18901		3.98(1.90-5.69)		448	
D 19 13C5 PFNA										
468.00 > 423.00	3.120	3.112	0.008	1.140	3798370	2.40		96.0	87531	
D 18 13C4 PFOS										
503.00 > 80.00	3.112	3.112	0.0	1.137	3839866	2.44		102	75484	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.418	3.417	0.001	1.000	114457	0.0492		98.3	3142	
D 21 13C8 FOSA										
506.00 > 78.00	3.418	3.418	0.0	1.249	5905362	2.78		111	56090	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.473	3.463	0.010	1.000	30521	0.0509		106	456	
D 26 M2-8:2FTS										
529.00 > 81.00	3.473	3.464	0.009	1.269	1125118	2.29		95.6	34291	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.482	3.472	0.010	1.000	69907	0.0532		106	282	
513.00 > 169.00	3.482	3.472	0.010	1.000	13624		5.13(2.36-7.09)		431	
D 23 13C2 PFDA										
515.00 > 470.00	3.482	3.473	0.009	1.273	3322580	2.39		95.8	51713	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.643	3.633	0.010	1.000	33670	0.0524		105	421	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.643	3.633	0.010	1.331	1603660	2.20		87.8	41201	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.794	3.792	0.002	1.000	49927	0.0457		94.8	2548	
599.00 > 99.00	3.794	3.792	0.002	1.000	18048		2.77(1.39-4.16)		746	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.815	3.803	0.012	1.003	31997	0.0506		101	717	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.805	3.804	0.001	1.390	1693100	2.03		81.4	3921	
D 30 13C2 PFUnA										
565.00 > 520.00	3.815	3.804	0.011	1.394	2974617	2.40		95.8	60704	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.815	3.813	0.002	1.000	53483	0.0521		104	219	
563.00 > 169.00	3.815	3.813	0.002	1.000	11520		4.64(2.12-6.36)		579	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.116	4.103	0.013	1.000	60253	0.0443		88.7	39.5	
613.00 > 169.00	4.116	4.103	0.013	1.000	15139		3.98(2.13-6.40)		398	
D 36 13C2 PFDoA										
615.00 > 570.00	4.116	4.105	0.011	1.504	3246092	2.30		92.2	26529	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.380	4.367	0.013	1.000	70046	0.0490		98.0	27.2	
663.00 > 169.00	4.380	4.367	0.013	1.000	20003		3.50(1.25-3.76)		399	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.624	4.612	0.012	1.000	18998	0.0518		104	382	
713.00 > 219.00	4.614	4.612	0.002	0.998	13405		1.42(0.71-2.13)		299	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.624	4.613	0.011	1.690	3703775	2.15		86.1	20893	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.041	5.030	0.011	1.000	150695	0.0500		100	31.4	
813.00 > 169.00	5.041	5.030	0.011	1.000	25879		5.82(2.86-8.58)		234	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.041	5.040	0.001	1.842	5577652	1.98		79.1	14312	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.419	5.410	0.009	1.000	112897	0.0547		109	23.7	
913.00 > 169.00	5.419	5.410	0.009	1.000	14145		7.98(3.83-11.48)		190	

Reagents:

LCPFC_LL2_00004 Amount Added: 1.00 Units: mL

Report Date: 29-Mar-2018 07:24:57 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_005.d

Injection Date: 28-Mar-2018 18:36:11 Instrument ID: A8_N

Lims ID: CCVL

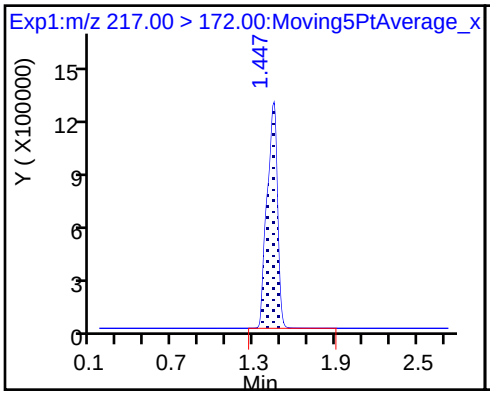
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

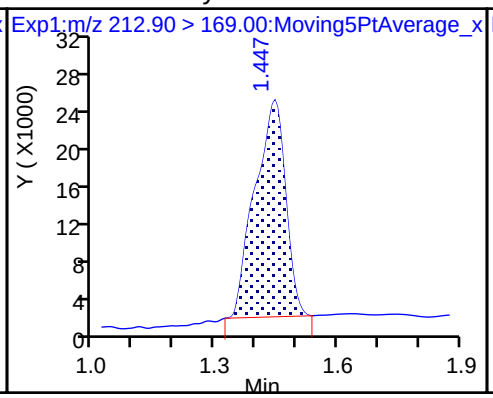
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

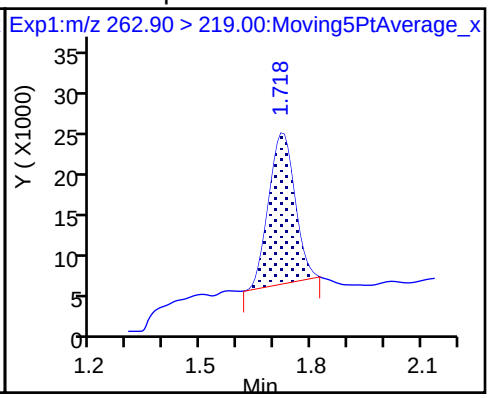
D 1 13C4 PFBA



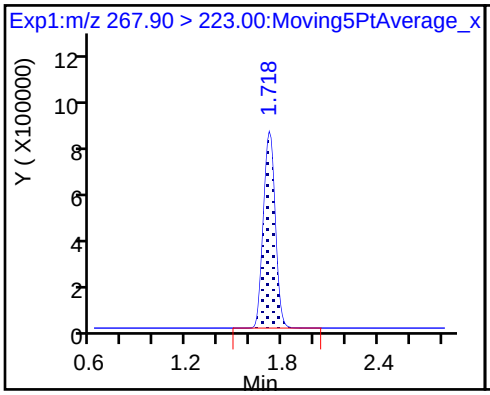
2 Perfluorobutyric acid



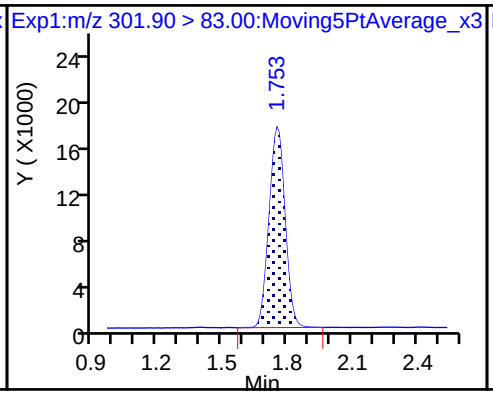
4 Perfluoropentanoic acid



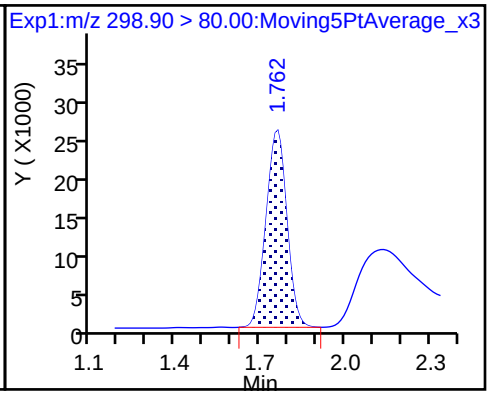
D 3 13C5-PFPeA



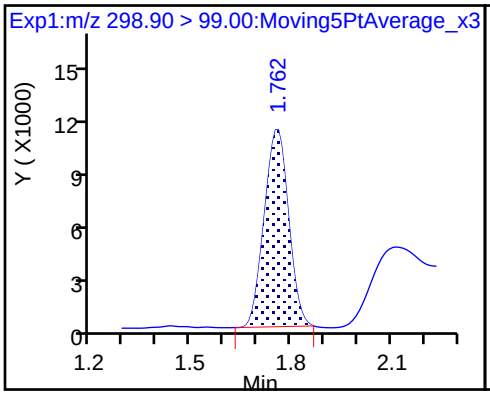
D 47 13C3-PFBS



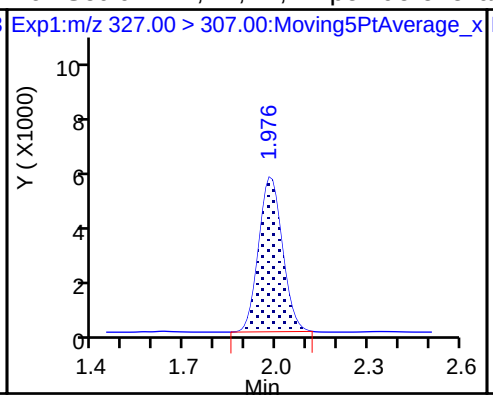
5 Perfluorobutanesulfonic acid



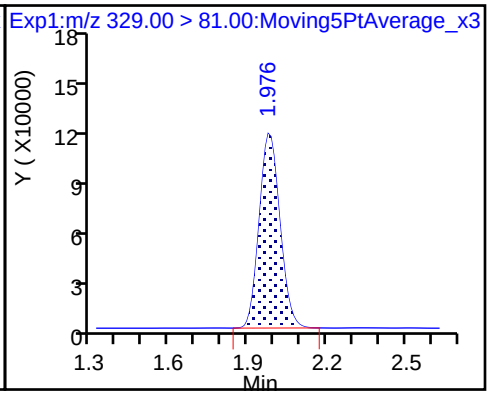
5 Perfluorobutanesulfonic acid



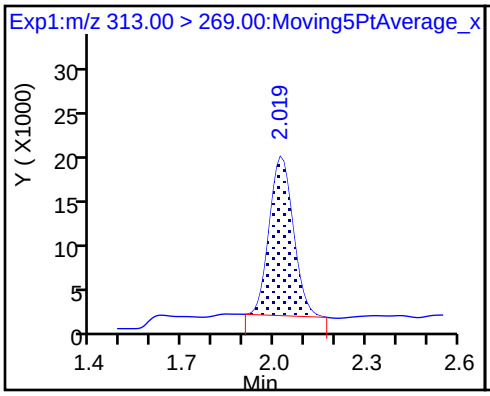
61 Sodium 1H,1H,2H,2H-perfluorohexane



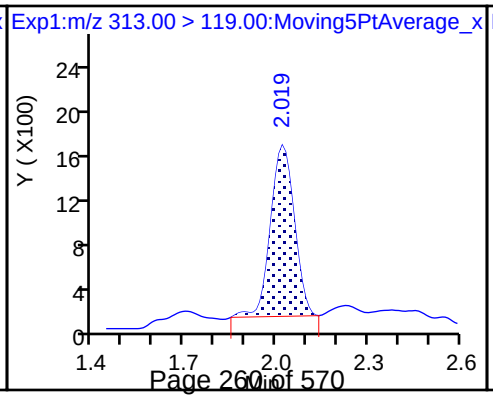
D 60 M2-4:2FTS



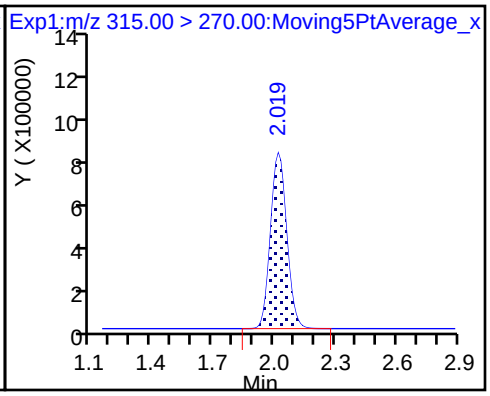
6 Perfluorohexanoic acid



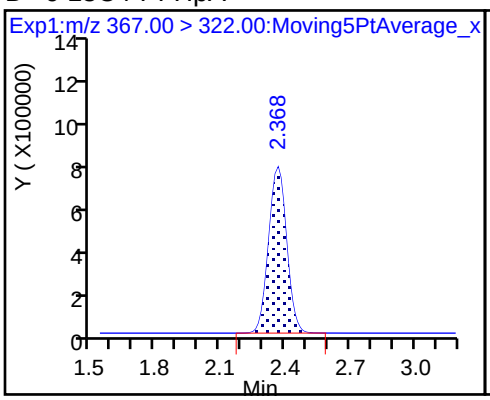
6 Perfluorohexanoic acid



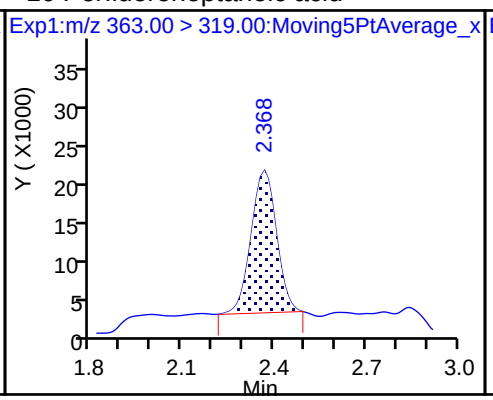
D 7 13C2 PFHxA



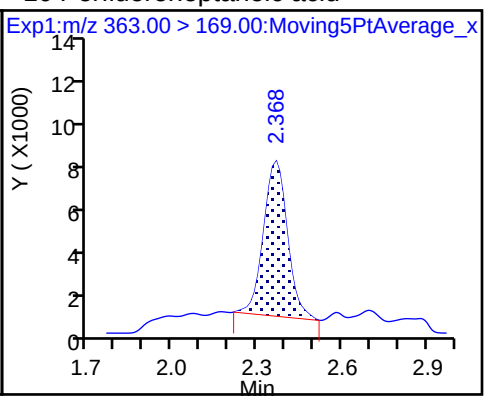
D 9 13C4-PFHpA



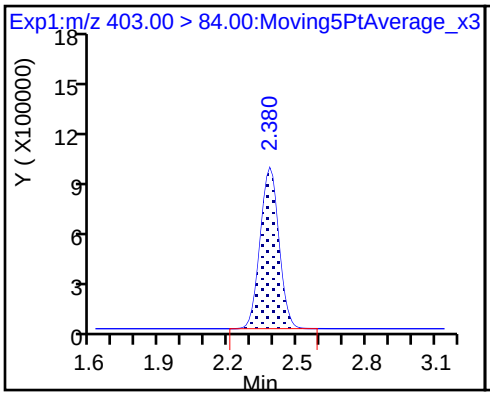
10 Perfluoroheptanoic acid



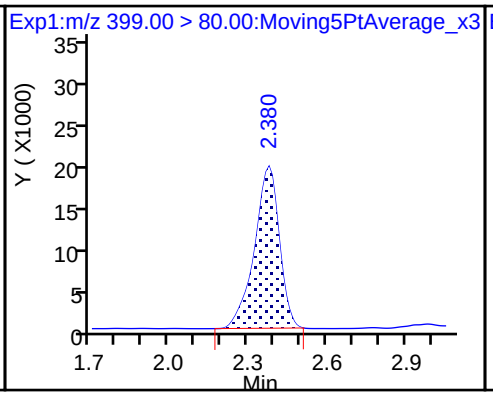
10 Perfluoroheptanoic acid



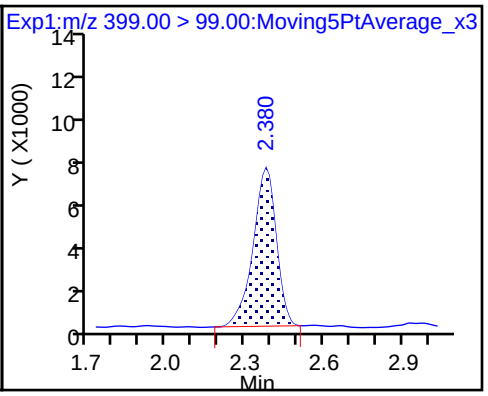
D 11 18O2 PFHxS



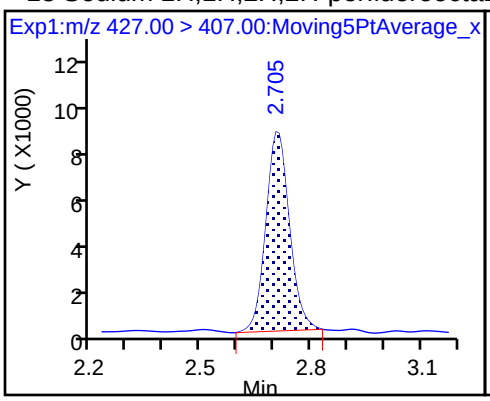
8 Perfluorohexanesulfonic acid



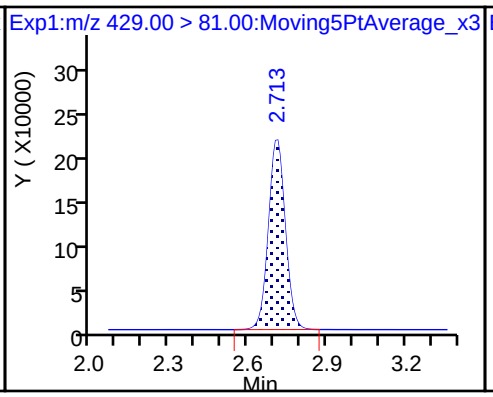
8 Perfluorohexanesulfonic acid



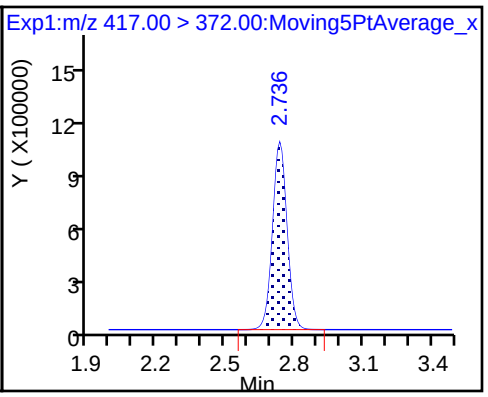
13 Sodium 1H,1H,2H,2H-perfluorooctane



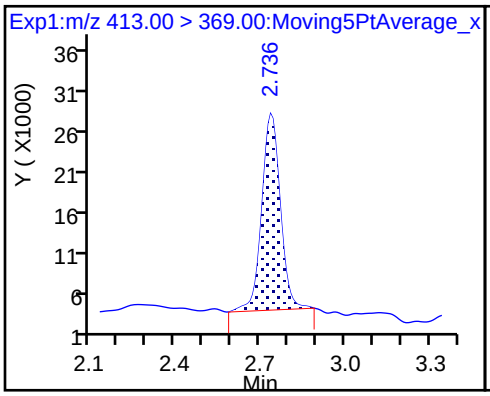
D 12 M2-6:2FTS



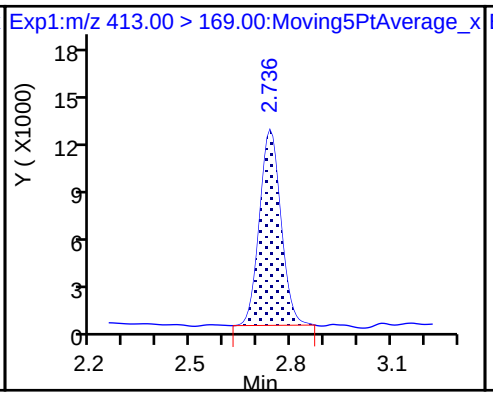
D 14 13C4 PFOA



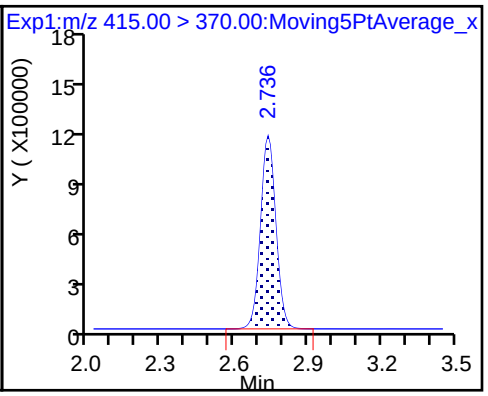
15 Perfluorooctanoic acid



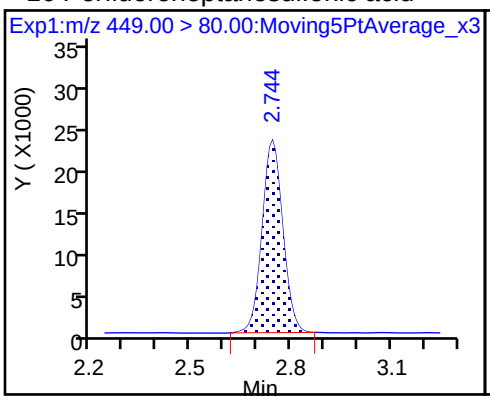
15 Perfluorooctanoic acid



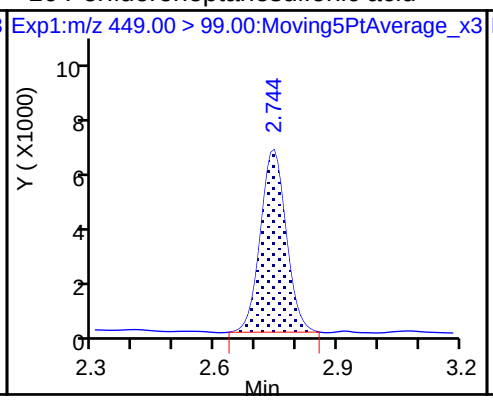
* 62 13C2-PFOA



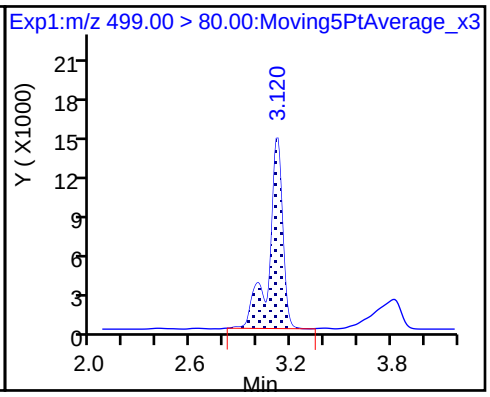
16 Perfluoroheptanesulfonic acid



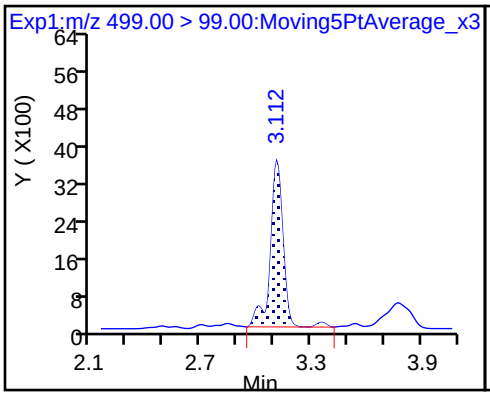
16 Perfluoroheptanesulfonic acid



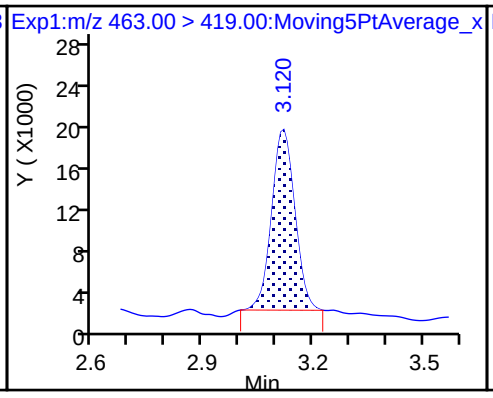
17 Perfluorooctane sulfonic acid



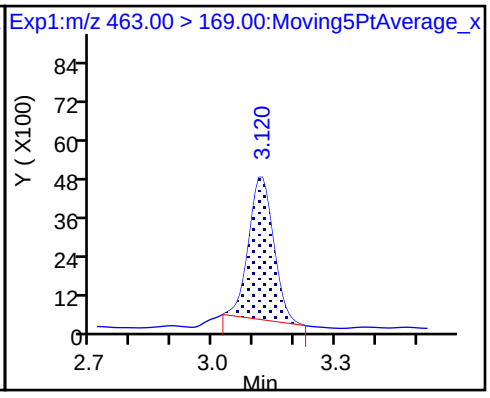
17 Perfluorooctane sulfonic acid



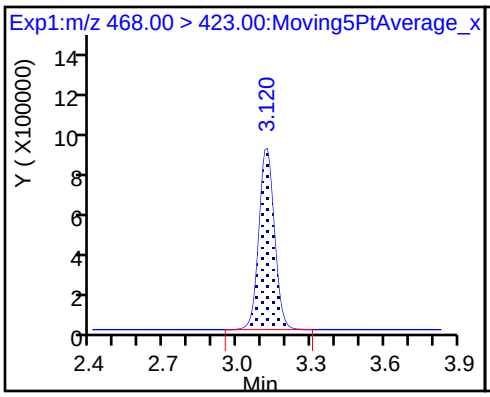
20 Perfluorononanoic acid



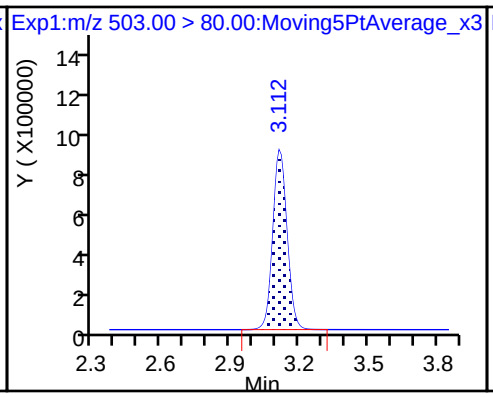
20 Perfluorononanoic acid



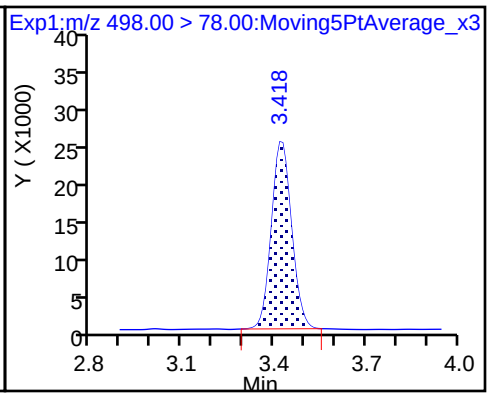
D 19 13C5 PFNA



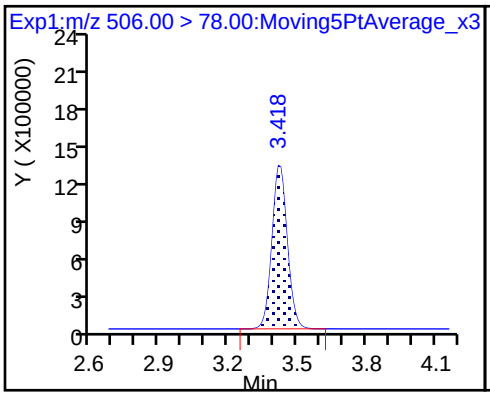
D 18 13C4 PFOS



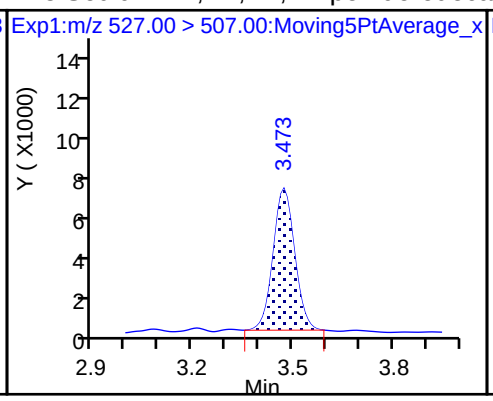
22 Perfluorooctane Sulfonamide



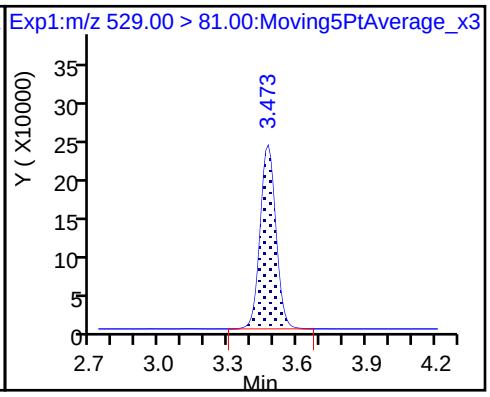
D 21 13C8 FOSA



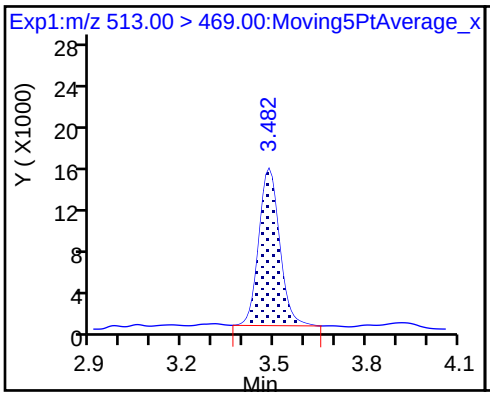
25 Sodium 1H,1H,2H,2H-perfluorodecane



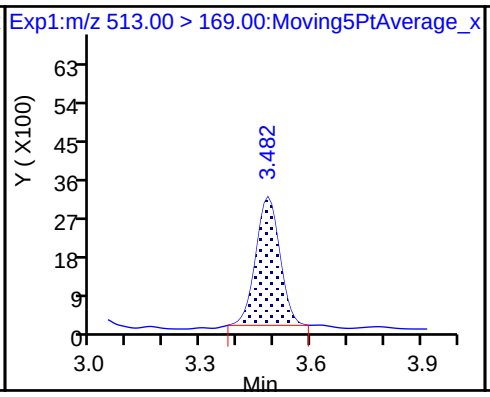
D 26 M2-8:2FTS



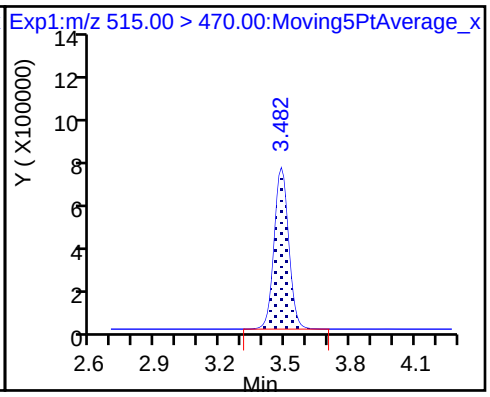
24 Perfluorodecanoic acid



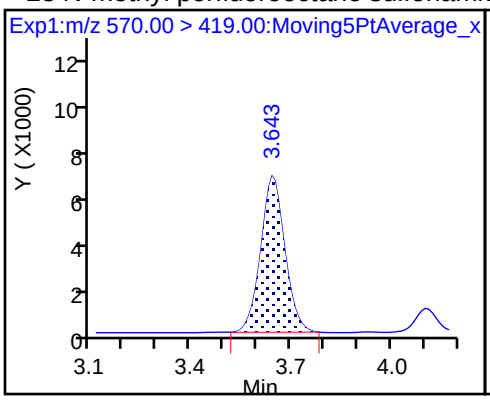
24 Perfluorodecanoic acid



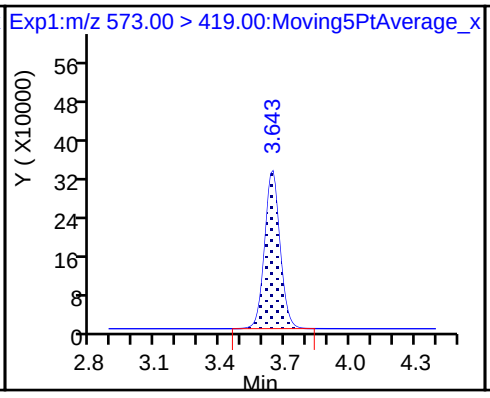
D 23 13C2 PFDA



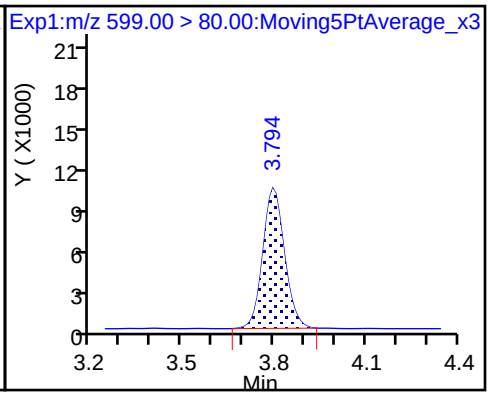
28 N-methyl perfluorooctane sulfonami



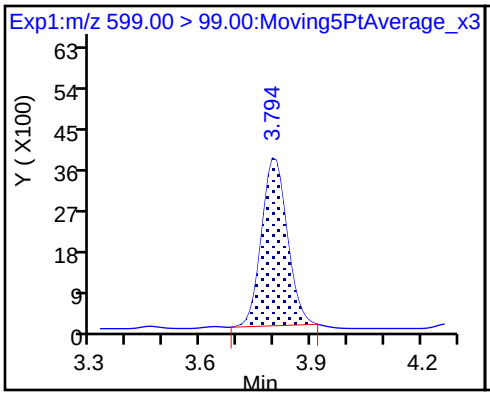
D 27 d3-NMeFOSAA



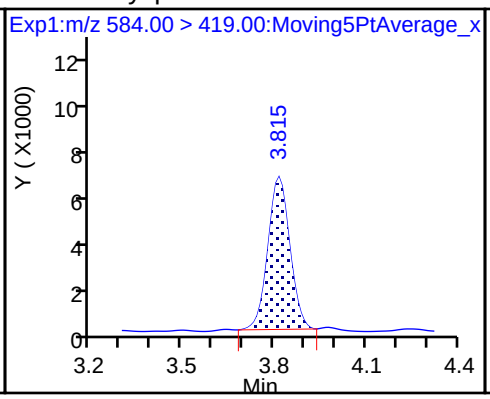
29 Perfluorodecane Sulfonic acid



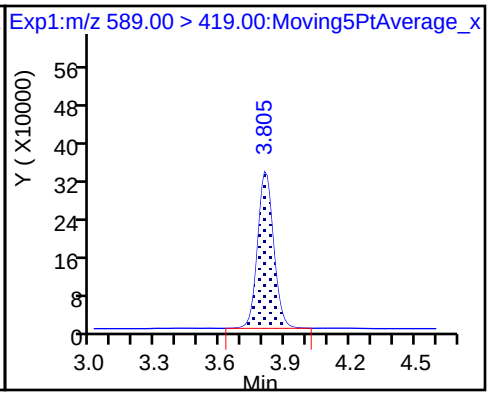
29 Perfluorodecane Sulfonic acid



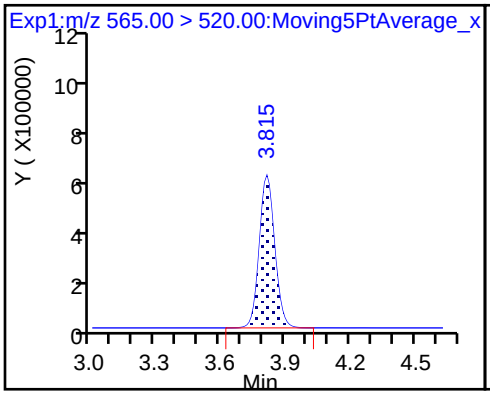
33 N-ethyl perfluorooctane sulfonamid



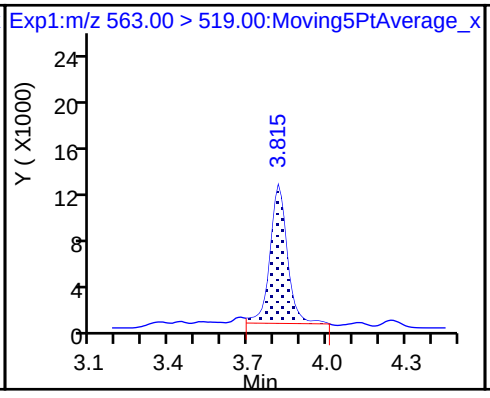
D 32 d5-NEtFOSAA



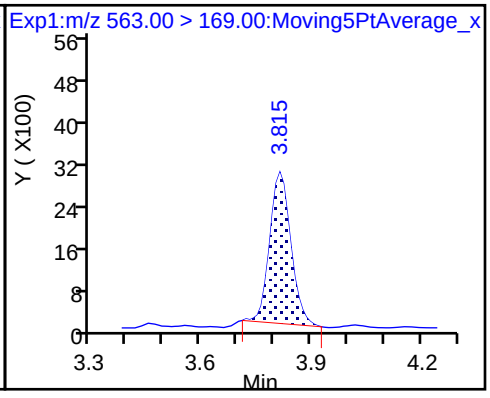
D 30 13C2 PFUnA



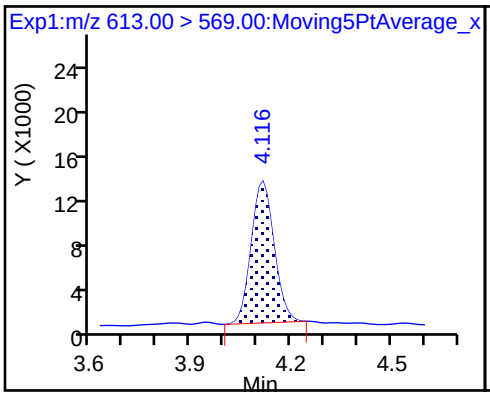
31 Perfluoroundecanoic acid



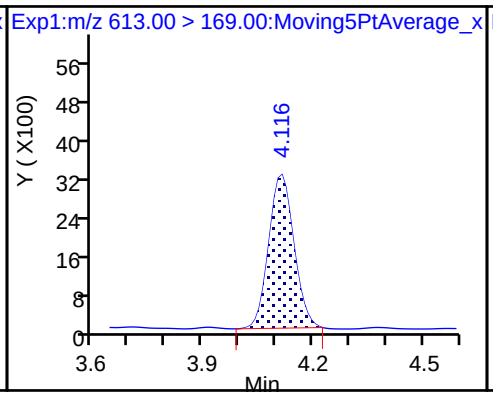
31 Perfluoroundecanoic acid



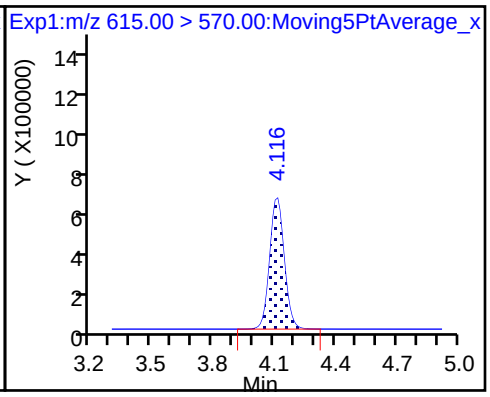
37 Perfluorododecanoic acid



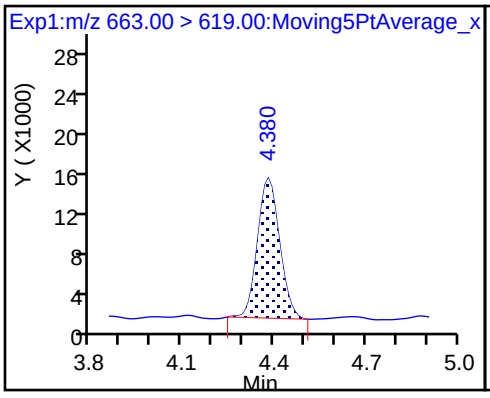
37 Perfluorododecanoic acid



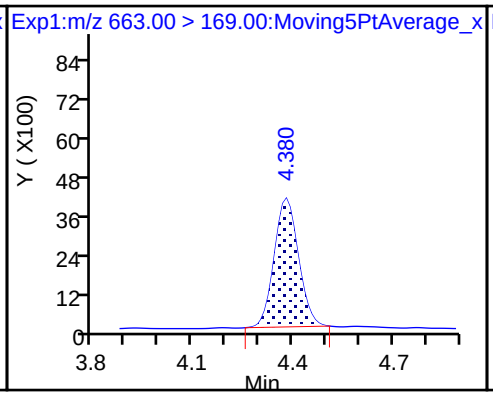
D 36 13C2 PFDoA



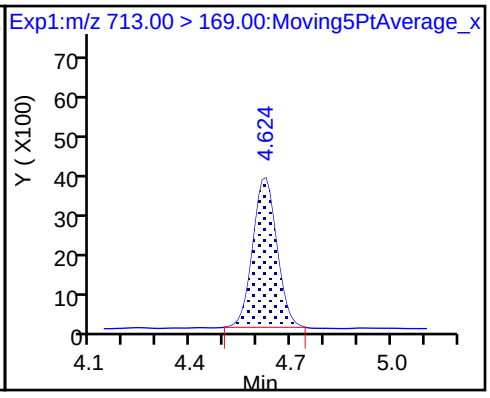
41 Perfluorotridecanoic acid



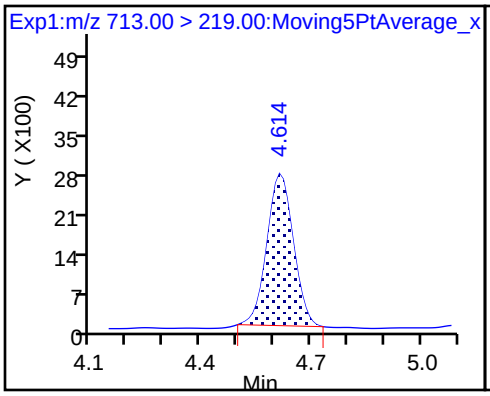
41 Perfluorotridecanoic acid



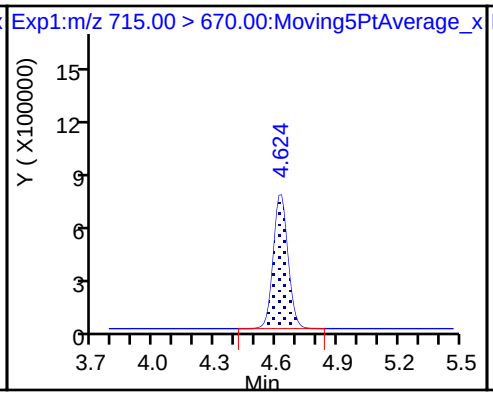
42 Perfluorotetradecanoic acid



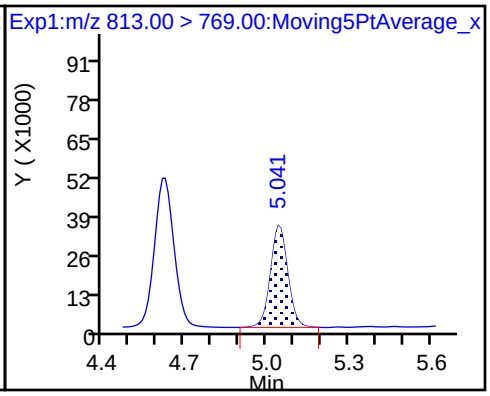
42 Perfluorotetradecanoic acid



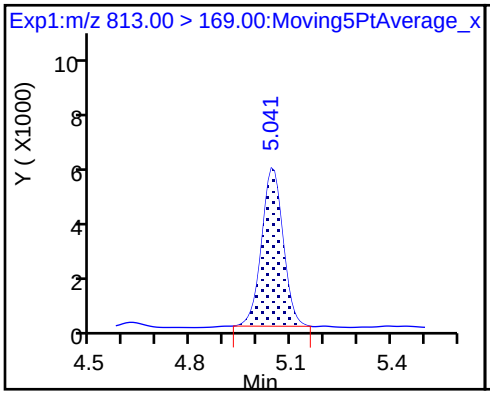
D 43 13C2-PFTeDA



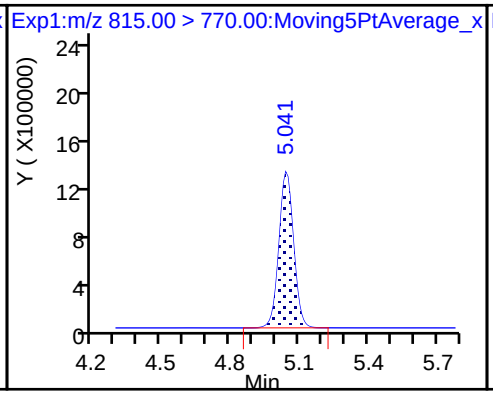
45 Perfluorohexadecanoic acid



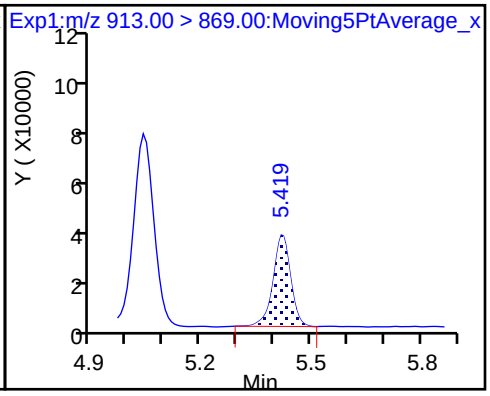
45 Perfluorohexadecanoic acid



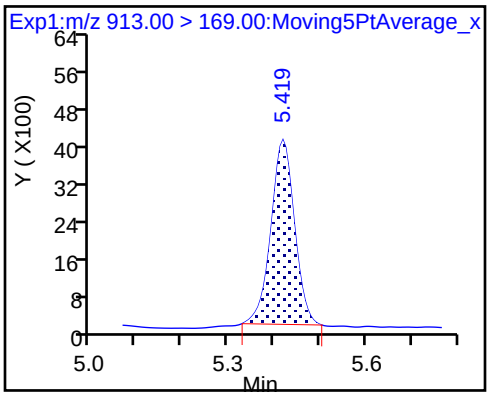
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215294/3 Calibration Date: 03/28/2018 18:44

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9422	0.8976		0.953	1.00	-4.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.128	1.119		0.993	1.00	-0.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	77.70	78.11		0.889	0.884	0.5	50.0
4:2 FTS	AveID	16.15	15.76		0.911	0.934	-2.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.022	0.995		0.974	1.00	-2.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.043		1.01	1.00	0.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.113	1.017		0.831	0.910	-8.7	40.0
6:2FTS	AveID	1.744	1.689		0.918	0.948	-3.1	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.130	1.101		0.975	1.00	-2.5	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.281	1.304		0.969	0.952	1.8	50.0
Perfluorononanoic acid (PFNA)	AveID	0.998	0.9783		0.981	1.00	-1.9	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.114	1.062		0.885	0.928	-4.7	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9858	0.9873		1.00	1.00	0.2	40.0
8:2FTS	AveID	1.276	1.270		0.953	0.958	-0.5	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9881	0.9397		0.951	1.00	-4.9	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.001	1.032		1.03	1.00	3.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6800	0.6823		0.967	0.964	0.3	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9342	0.9208		0.986	1.00	-1.4	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8622	0.7465		0.866	1.00	-13.4	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.046	1.010		0.965	1.00	-3.5	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.101	1.059		0.962	1.00	-3.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2478	0.2600		1.05	1.00	4.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8966		0.962	1.00	-3.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9246	1.145		1.24	1.00	23.8	50.0
13C4 PFBA	Ave	1.266	1.375		2.72	2.50	8.6	50.0
13C5 PFPeA	Ave	0.8399	0.8870		2.64	2.50	5.6	50.0
13C3-PFBS	Ave	0.0192	0.0202		2.45	2.33	5.5	50.0
M2-4:2FTS	Ave	0.1324	0.1490		2.63	2.34	12.6	50.0
13C2 PFHxA	Ave	0.9288	0.9736		2.62	2.50	4.8	50.0
13C4-PFHpA	Ave	0.9164	0.9639		2.63	2.50	5.2	50.0
18O2 PFHxS	Ave	1.130	1.283		2.68	2.37	13.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215294/3 Calibration Date: 03/28/2018 18:44

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-6:2FTS	Ave	0.1900	0.2183		2.73	2.38	14.9	40.0
13C4 PFOA	Ave	0.9374	0.9453		2.52	2.50	0.8	50.0
13C4 PFOS	Ave	0.8225	0.8450		2.46	2.39	2.7	50.0
13C5 PFNA	Ave	0.8266	0.8212		2.48	2.50	-0.7	50.0
13C8 FOSA	Ave	1.109	1.266		2.85	2.50	14.1	50.0
M2-8:2FTS	Ave	0.2565	0.2508		2.34	2.40	-2.2	40.0
13C2 PFDA	Ave	0.7245	0.6929		2.39	2.50	-4.4	50.0
d3-NMeFOSAA	Ave	0.3814	0.3466		2.27	2.50	-9.1	50.0
13C2 PFUnA	Ave	0.6482	0.6085		2.35	2.50	-6.1	50.0
d5-NEtFOSAA	Ave	0.4345	0.3631		2.09	2.50	-16.4	50.0
13C2 PFDoA	Ave	0.7355	0.6809		2.31	2.50	-7.4	50.0
13C2-PFTeDA	Ave	0.8983	0.7629		2.12	2.50	-15.1	50.0
13C2-PFHxDA	Ave	1.473	1.262		2.14	2.50	-14.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Mar-2018 18:44:00 ALS Bottle#: 13 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:24:59 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:24:07

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.446	1.441	0.005	0.529	6512234	2.71		109	97783	
2 Perfluorobutyric acid										
212.90 > 169.00	1.446	1.446	0.0	1.000	2338220	0.9527		95.3	1339	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.000	1881545	0.99		99.3	710	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.718	-0.001	0.628	4202113	2.64		106	119819	
D 47 13C3-PFBS										
301.90 > 83.00	1.752	1.754	-0.002	0.641	89080	2.45		105	600	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.761	0.0	1.005	2645526	0.8886		101	1704	
298.90 > 99.00	1.752	1.761	-0.009	1.000	1099218		2.41(1.25-3.74)		1663	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.975	1.975	0.0	1.000	563971	0.9113		97.6	35179	
D 60 M2-4:2FTS										
329.00 > 81.00	1.975	1.976	-0.001	0.723	659305	2.63		113	11132	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.018	2.018	0.0	1.000	1836229	0.9736		97.4	2537	
313.00 > 119.00	2.018	2.018	0.0	1.000	171073		10.73(5.03-15.10)		2219	
D 7 13C2 PFHxA										
315.00 > 270.00	2.018	2.019	-0.001	0.738	4612109	2.62		105	121709	
D 9 13C4-PFHpA										
367.00 > 322.00	2.367	2.354	0.013	0.866	4566371	2.63		105	88027	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.367	2.367	0.0	1.000	1905455	1.01		101	1297	
363.00 > 169.00	2.367	2.367	0.0	1.000	735260		2.59(1.13-3.40)		1563	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.379	2.368	0.011	0.870	5749080	2.68		113	102099	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.379	2.379	0.0	1.000	2249013	0.8312		91.3	10646	
399.00 > 99.00	2.379	2.379	0.0	1.000	749910		3.00(1.50-4.49)		4804	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.702	2.702	0.0	0.997	662464	0.9184		96.9	7656	
D 12 M2-6:2FTS										
429.00 > 81.00	2.710	2.705	0.005	0.991	982538	2.73		115	32008	
D 14 13C4 PFOA										
417.00 > 372.00	2.734	2.728	0.006	1.000	4478336	2.52		101	93637	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.734	2.734	0.0	1.000	1973119	0.9750		97.5	742	
413.00 > 169.00	2.734	2.734	0.0	1.000	1041704		1.89(0.84-2.52)		4025	
* 62 13C2-PFOA										
415.00 > 370.00	2.734	2.734	0.0		4737298	2.50			72744	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.742	2.742	0.0	1.000	1988304	0.9691		102	38453	
449.00 > 99.00	2.742	2.742	0.0	1.000	524127		3.79(1.94-5.82)		10171	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.111	3.111	0.0	1.000	1577803	0.8846		95.3	4525	
499.00 > 99.00	3.111	3.111	0.0	1.000	342924		4.60(2.31-6.93)		3837	
20 Perfluorononanoic acid										
463.00 > 419.00	3.111	3.111	0.0	1.000	1522338	0.9807		98.1	1367	
463.00 > 169.00	3.111	3.111	0.0	1.000	362152		4.20(1.90-5.69)		8454	
D 19 13C5 PFNA										
468.00 > 423.00	3.111	3.112	-0.001	1.138	3890250	2.48		99.3	64352	
D 18 13C4 PFOS										
503.00 > 80.00	3.111	3.112	-0.001	1.138	3826990	2.46		103	68118	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.417	3.417	0.0	1.000	2368449	1.00		100	74528	
D 21 13C8 FOSA										
506.00 > 78.00	3.417	3.418	-0.001	1.250	5997329	2.85		114	57752	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.463	3.463	0.0	1.000	578346	0.9535		99.5	6864	
D 26 M2-8:2FTS										
529.00 > 81.00	3.463	3.464	-0.001	1.267	1138260	2.34		97.8	30447	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.472	3.472	0.0	1.000	1233834	0.9511		95.1	6168	
513.00 > 169.00	3.472	3.472	0.0	1.000	222871		5.54(2.36-7.09)		4846	
D 23 13C2 PFDA										
515.00 > 470.00	3.472	3.473	-0.001	1.270	3282435	2.39		95.6	32641	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.633	3.633	0.0	1.000	677844	1.03		103	5815	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.633	3.633	0.0	1.329	1641727	2.27		90.9	42694	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.792	3.792	0.0	1.000	1053233	0.9673		100	30660	
599.00 > 99.00	3.792	3.792	0.0	1.000	374365		2.81(1.39-4.16)		12694	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.803	3.803	0.0	1.000	633608	0.9856		98.6	13857	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.803	3.804	-0.001	1.391	1720253	2.09		83.6	3868	
D 30 13C2 PFUnA										
565.00 > 520.00	3.803	3.804	-0.001	1.391	2882389	2.35		93.9	64434	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.813	3.813	0.0	1.003	860629	0.8658		86.6	3958	
563.00 > 169.00	3.813	3.813	0.0	1.003	245067		3.51(2.12-6.36)		8067	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.103	4.103	0.0	1.000	1302787	0.9650		96.5	840	
613.00 > 169.00	4.103	4.103	0.0	1.000	316855		4.11(2.13-6.40)		5360	
D 36 13C2 PFDoA										
615.00 > 570.00	4.103	4.105	-0.002	1.501	3225575	2.31		92.6	25192	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.367	4.367	0.0	1.000	1366116	0.9619		96.2	554	
663.00 > 169.00	4.367	4.367	0.0	1.000	404754		3.38(1.25-3.76)		8738	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.612	4.612	0.0	1.000	375778	1.05		105	6382	
713.00 > 219.00	4.601	4.612	-0.011	0.998	258113		1.46(0.71-2.13)		5217	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.612	4.613	-0.001	1.687	3613938	2.12		84.9	21060	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.030	5.030	0.0	1.000	2144774	0.9622		96.2	440	
813.00 > 169.00	5.030	5.030	0.0	1.000	362999		5.91(2.86-8.58)		2638	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.030	5.040	-0.010	1.840	5980624	2.14		85.7	14735	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.410	5.410	0.0	1.000	2738951	1.24		124	544	
913.00 > 169.00	5.410	5.410	0.0	1.000	341009		8.03(3.83-11.48)		3478	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 29-Mar-2018 07:25:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_006.d

Injection Date: 28-Mar-2018 18:44:00 Instrument ID: A8_N

Lims ID: CCV L4

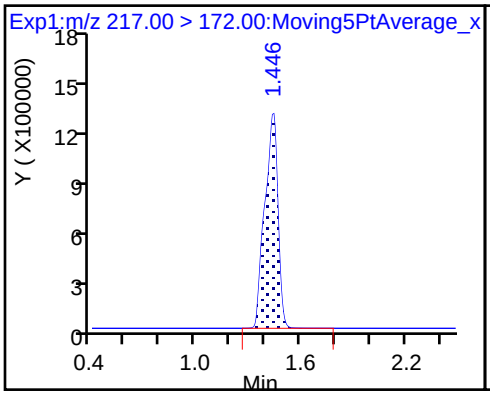
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 3

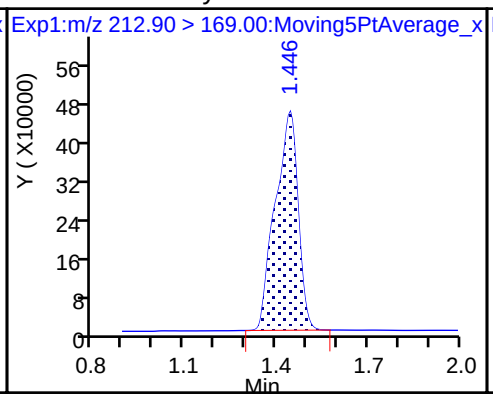
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

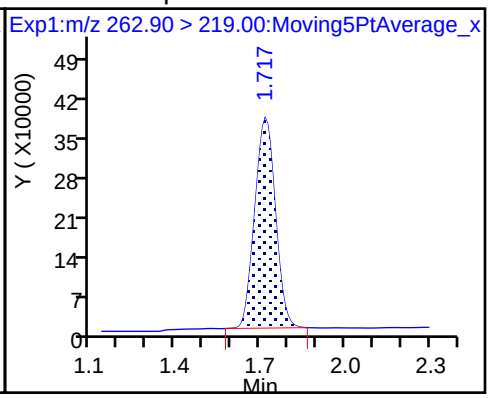
D 1 13C4 PFBA



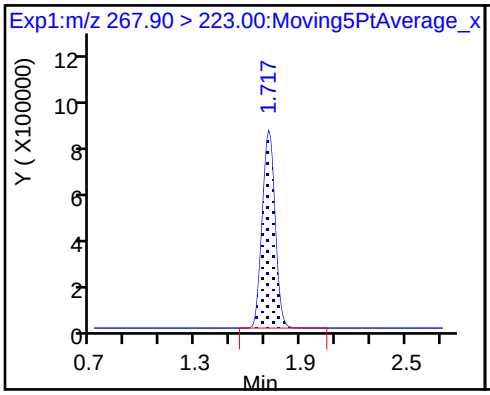
2 Perfluorobutyric acid



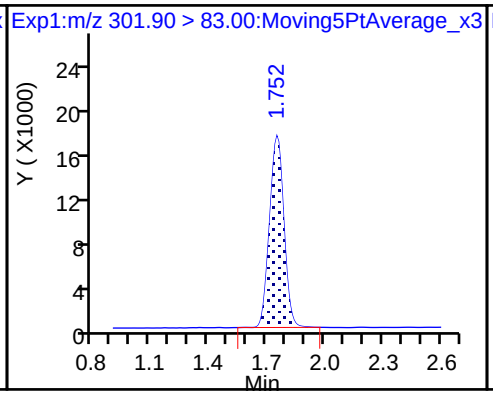
4 Perfluoropentanoic acid



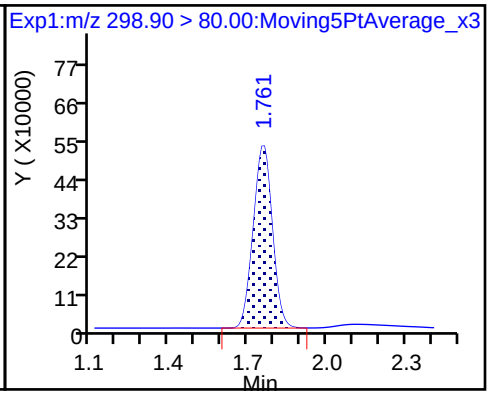
D 3 13C5-PFPeA



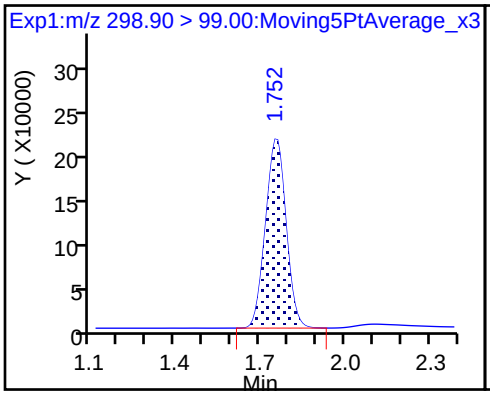
D 47 13C3-PFBS



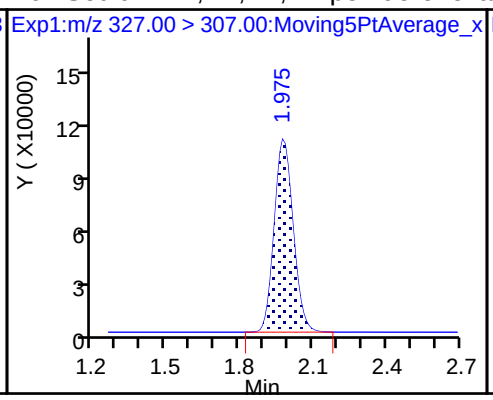
5 Perfluorobutanesulfonic acid



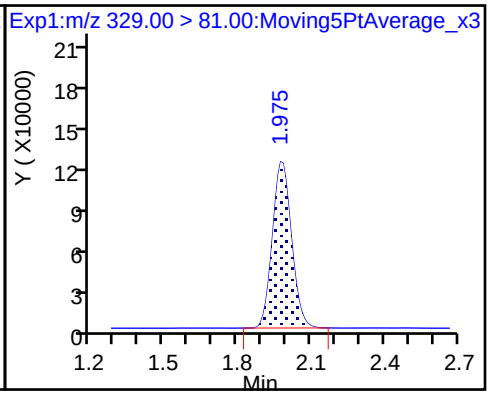
5 Perfluorobutanesulfonic acid



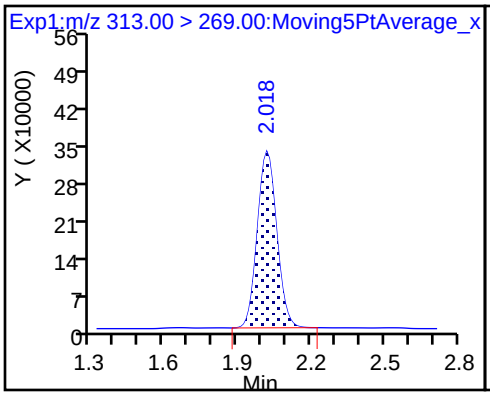
61 Sodium 1H,1H,2H,2H-perfluorohexane



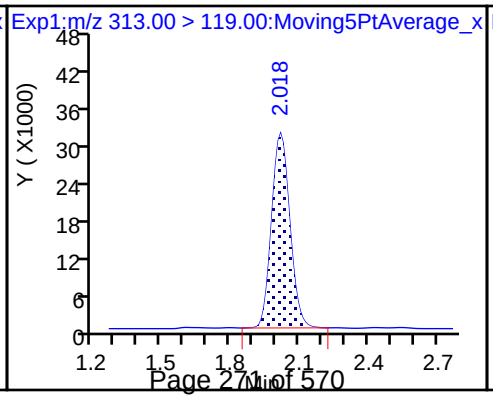
D 60 M2-4:2FTS



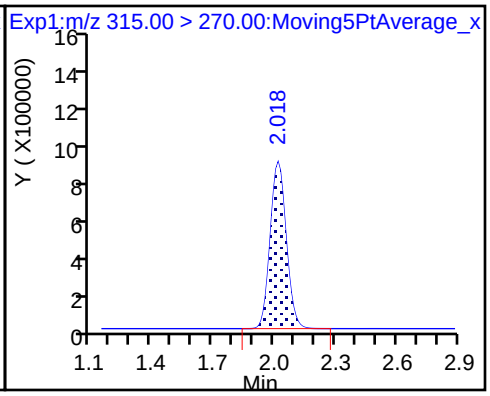
6 Perfluorohexanoic acid



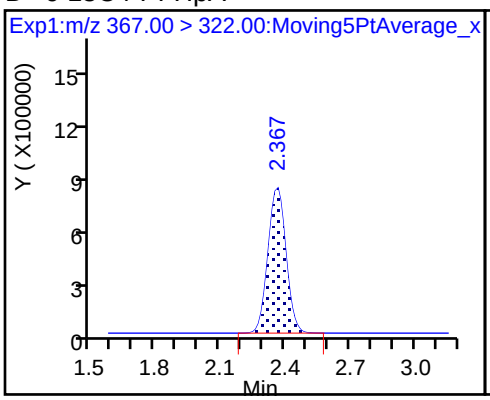
6 Perfluorohexanoic acid



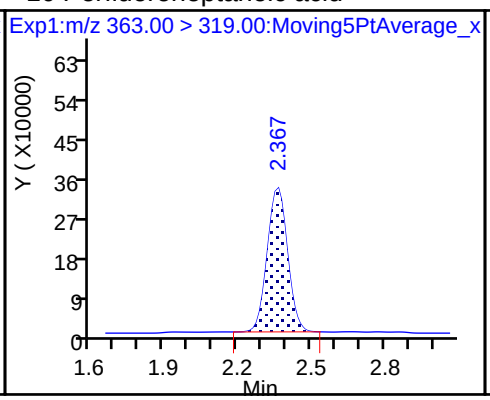
D 7 13C2 PFHxA



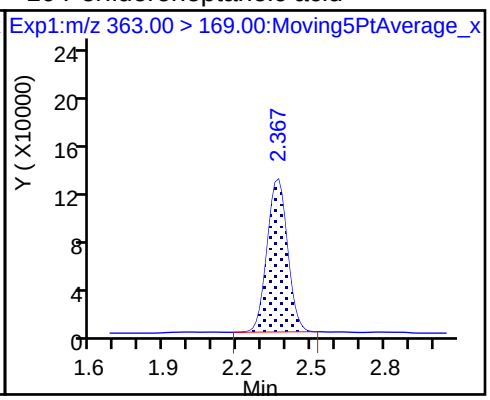
D 9 13C4-PFHpA



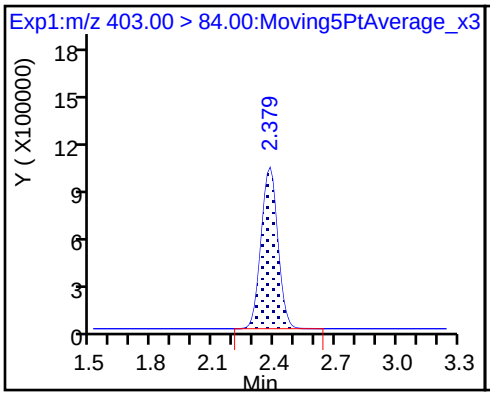
10 Perfluoroheptanoic acid



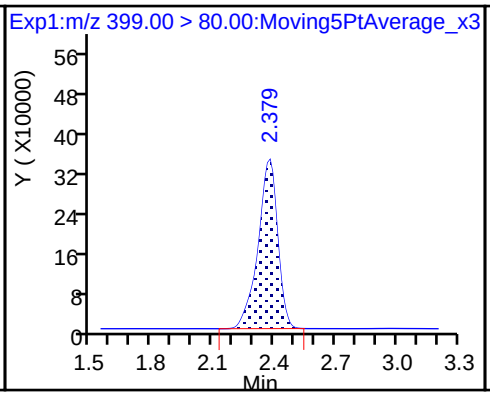
10 Perfluoroheptanoic acid



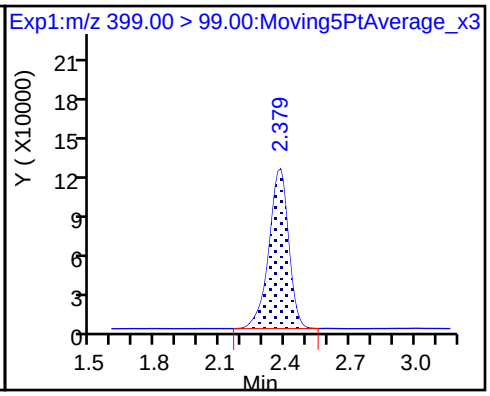
D 11 18O2 PFHxS



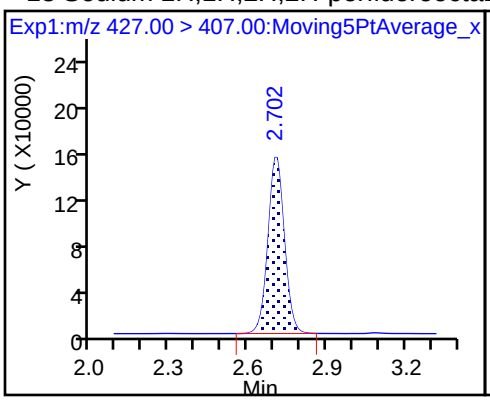
8 Perfluorohexanesulfonic acid



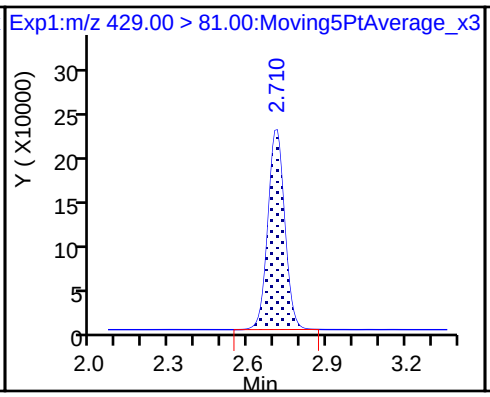
8 Perfluorohexanesulfonic acid



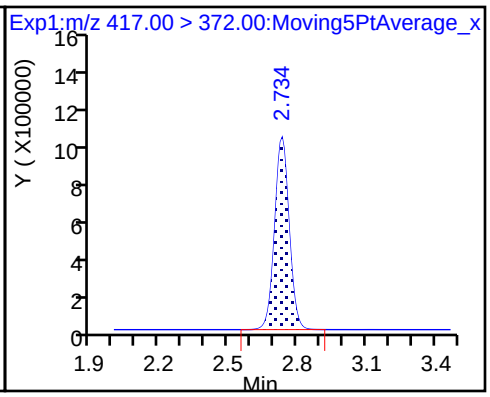
13 Sodium 1H,1H,2H,2H-perfluorooctane



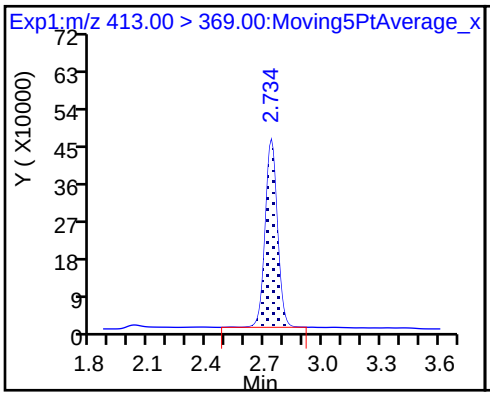
D 12 M2-6:2FTS



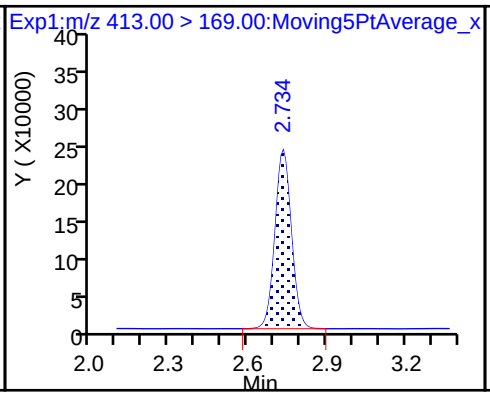
D 14 13C4 PFOA



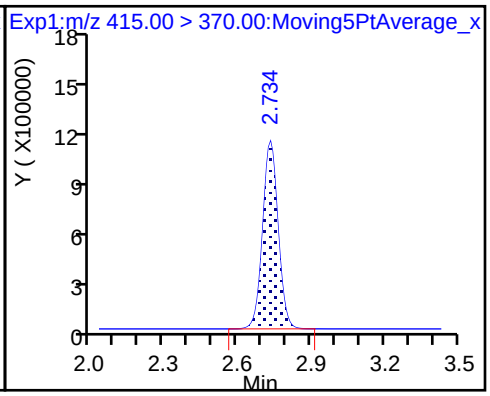
15 Perfluorooctanoic acid



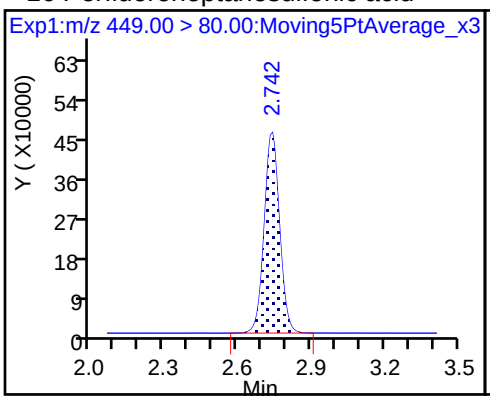
15 Perfluorooctanoic acid



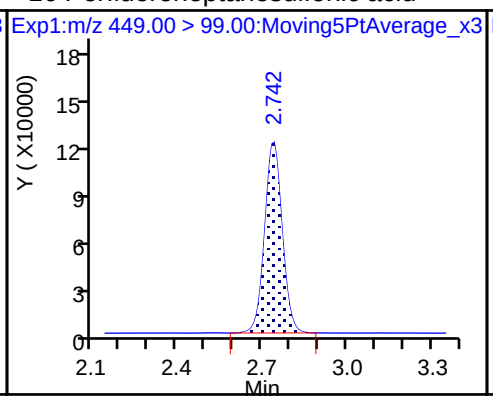
* 62 13C2-PFOA



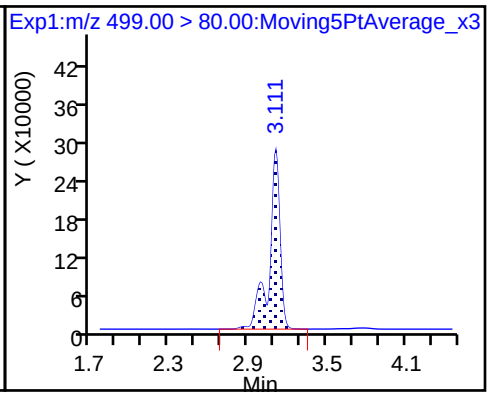
16 Perfluoroheptanesulfonic acid



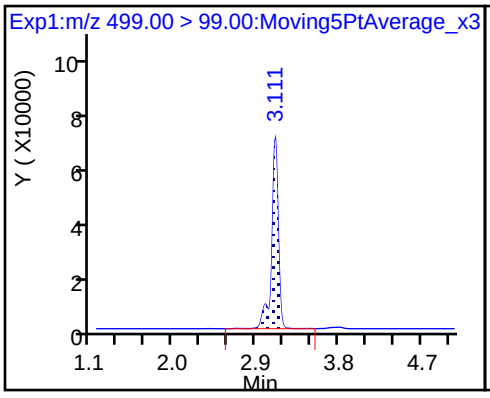
16 Perfluoroheptanesulfonic acid



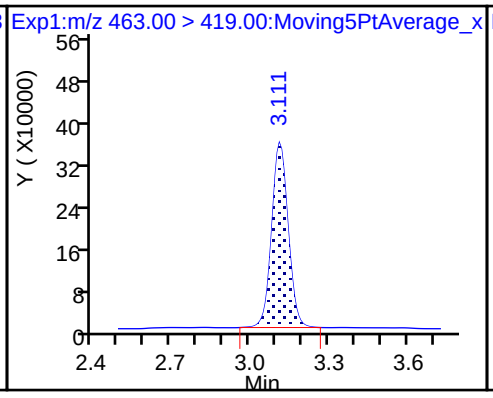
17 Perfluorooctane sulfonic acid



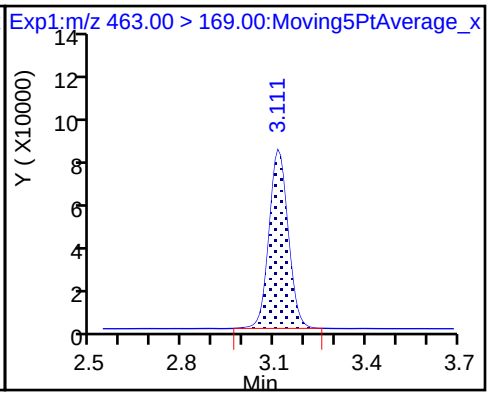
17 Perfluorooctane sulfonic acid



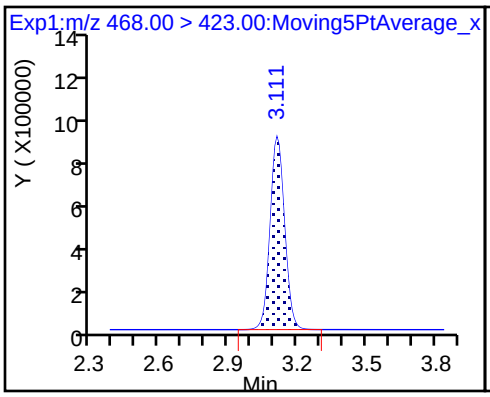
20 Perfluorononanoic acid



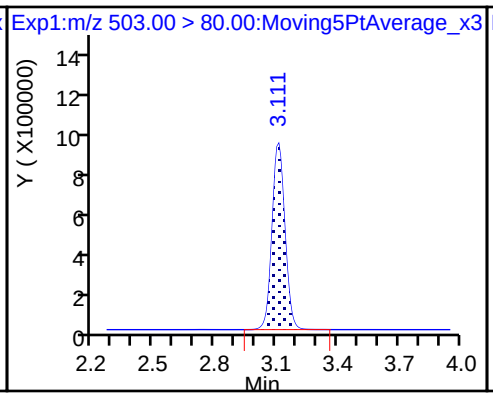
20 Perfluorononanoic acid



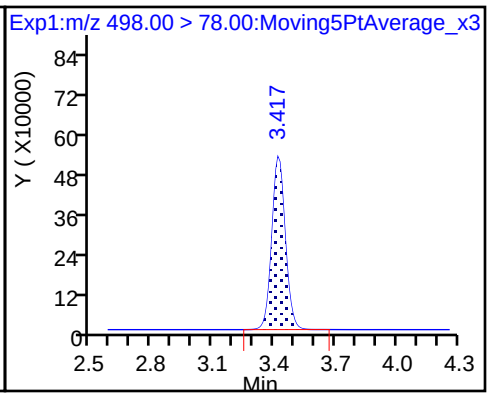
D 19 13C5 PFNA



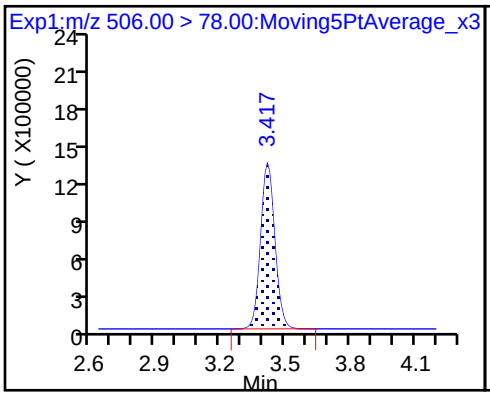
D 18 13C4 PFOS



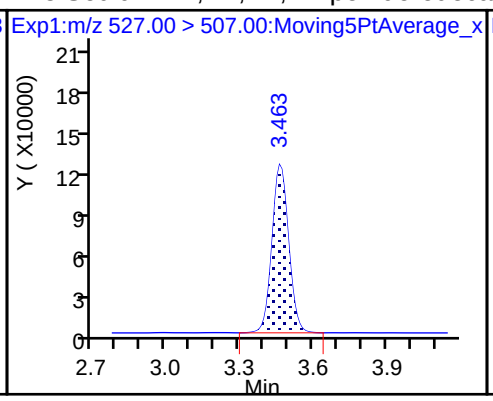
22 Perfluorooctane Sulfonamide



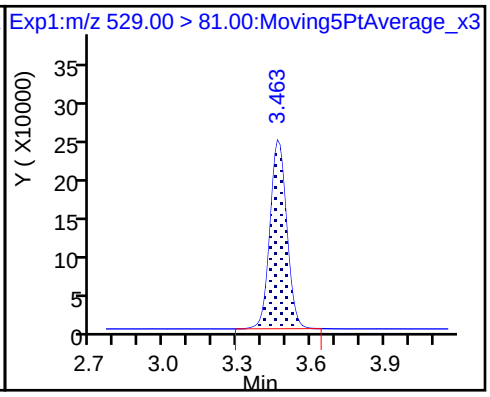
D 21 13C8 FOSA



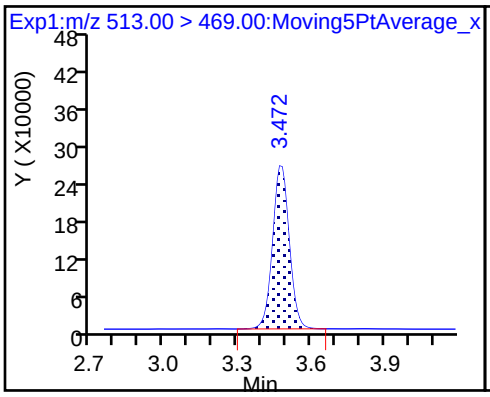
25 Sodium 1H,1H,2H,2H-perfluorodecane



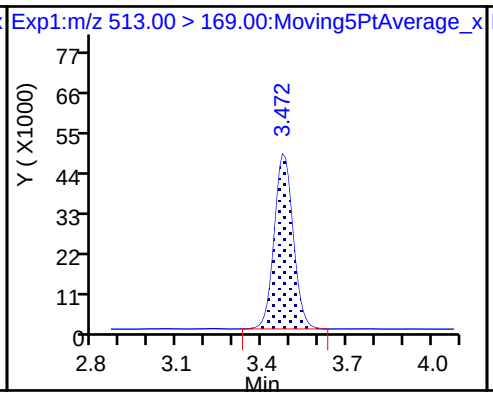
D 26 M2-8:2FTS



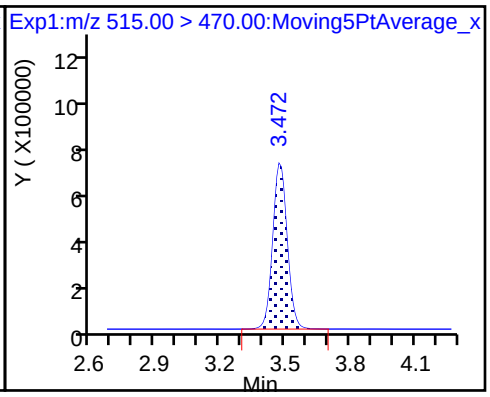
24 Perfluorodecanoic acid



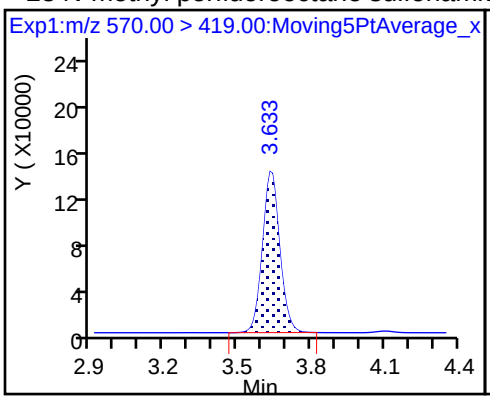
24 Perfluorodecanoic acid



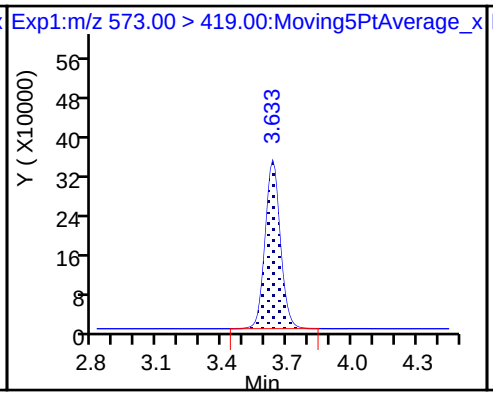
D 23 13C2 PFDA



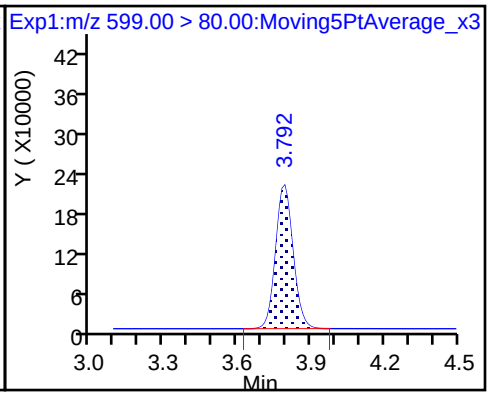
28 N-methyl perfluorooctane sulfonami



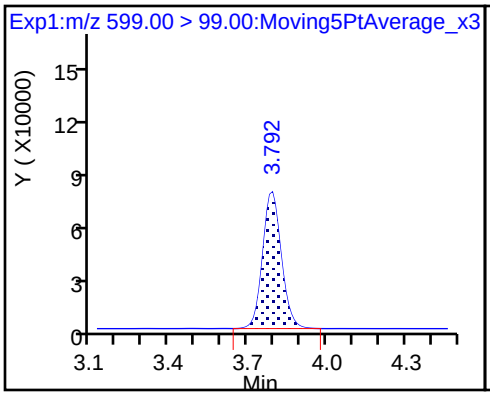
D 27 d3-NMeFOSAA



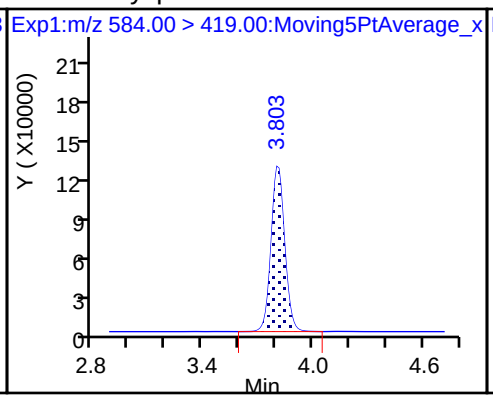
29 Perfluorodecane Sulfonic acid



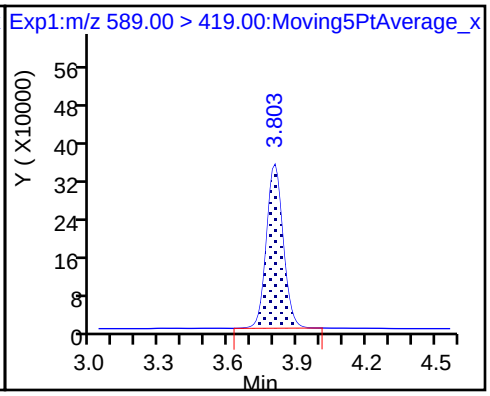
29 Perfluorodecane Sulfonic acid



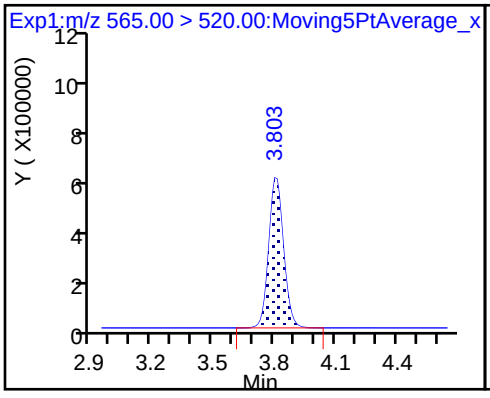
33 N-ethyl perfluorooctane sulfonamid



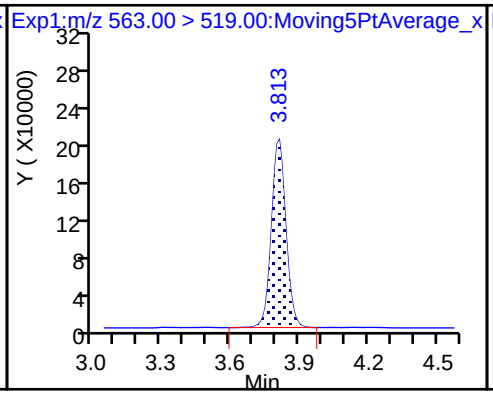
D 32 d5-NEtFOSAA



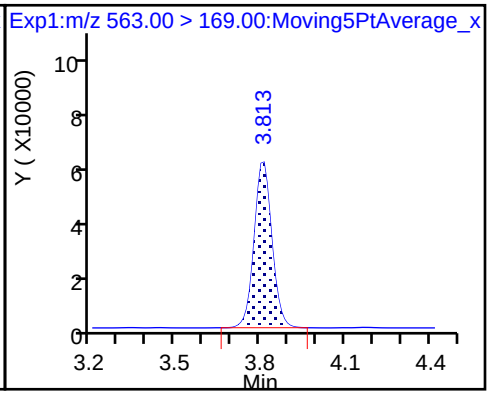
D 30 13C2 PFUnA



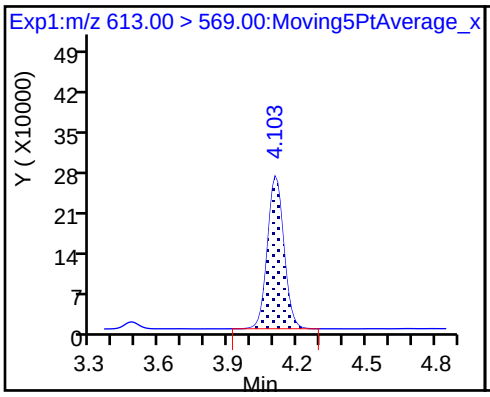
31 Perfluoroundecanoic acid



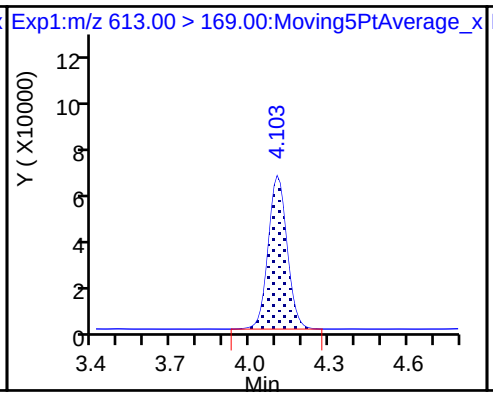
31 Perfluoroundecanoic acid



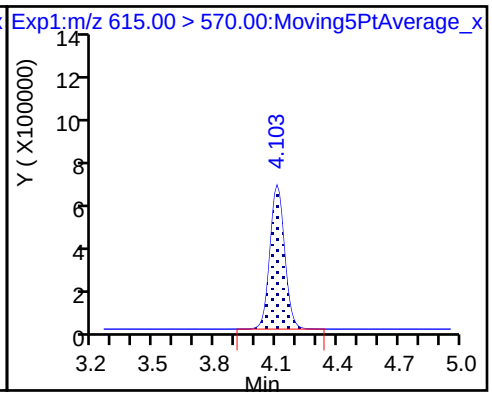
37 Perfluorododecanoic acid



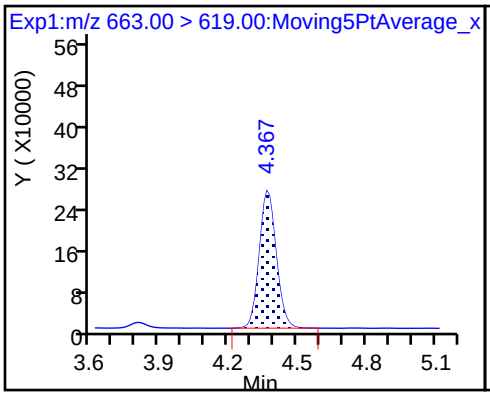
37 Perfluorododecanoic acid



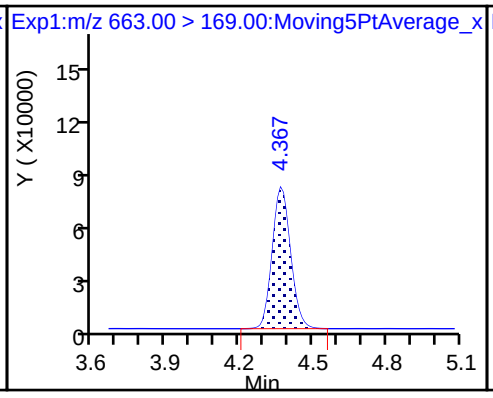
D 36 13C2 PFDoA



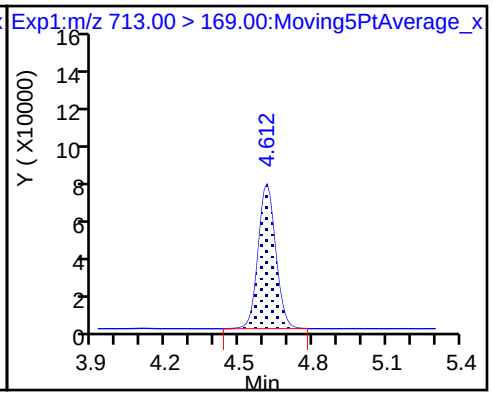
41 Perfluorotridecanoic acid



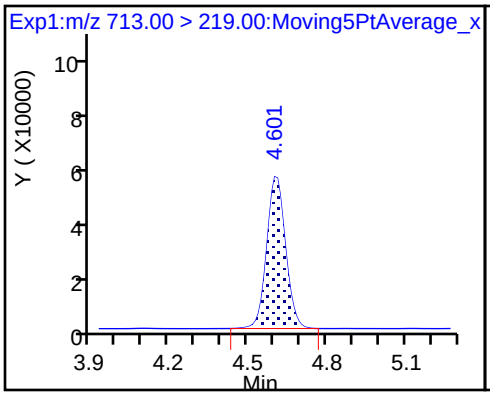
41 Perfluorotridecanoic acid



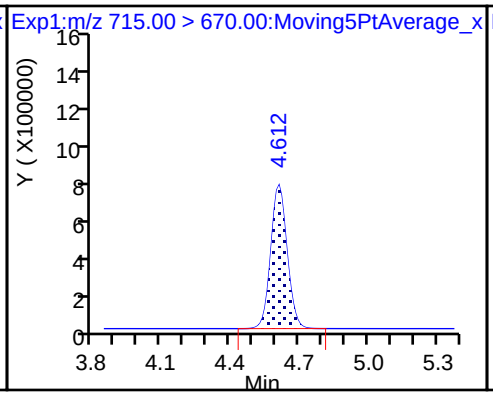
42 Perfluorotetradecanoic acid



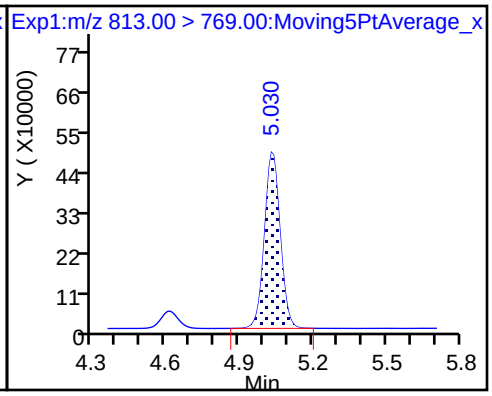
42 Perfluorotetradecanoic acid



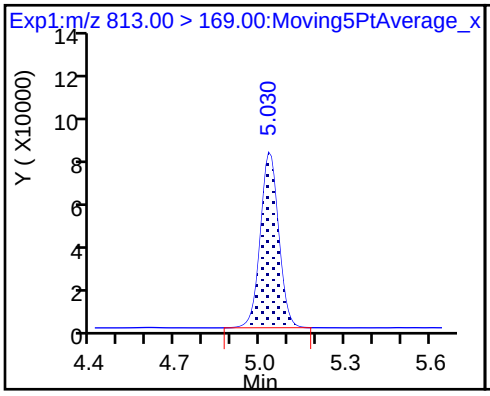
D 43 13C2-PFTeDA



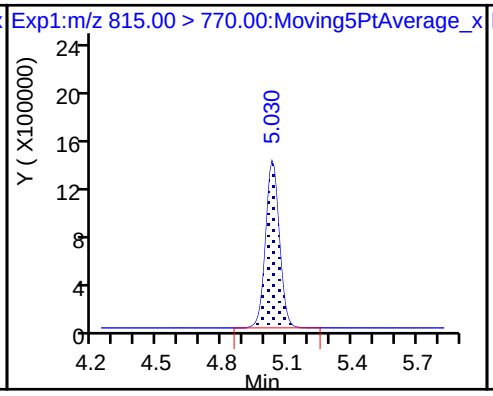
45 Perfluorohexadecanoic acid



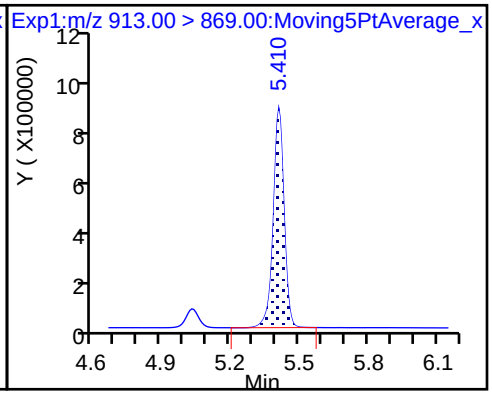
45 Perfluorohexadecanoic acid



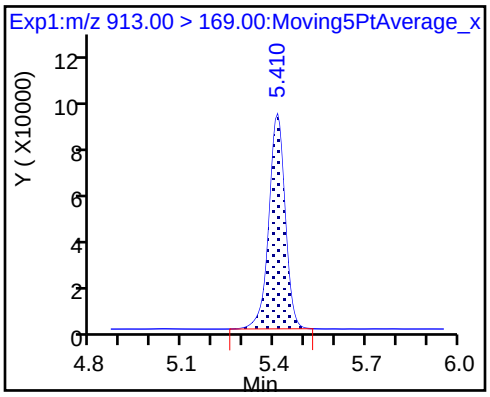
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215294/14 Calibration Date: 03/28/2018 20:10

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_017.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9422	0.9503		2.52	2.50	0.9	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.128	1.153		2.56	2.50	2.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	77.70	80.32		2.28	2.21	3.4	50.0
4:2 FTS	AveID	16.15	15.51		2.24	2.34	-4.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.022	1.030		2.52	2.50	0.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.033		2.50	2.50	-0.2	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.113	1.071		2.19	2.28	-3.8	40.0
6:2FTS	AveID	1.744	1.764		2.40	2.37	1.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.281	1.409		2.62	2.38	9.9	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.130	1.178		2.61	2.50	4.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.114	1.104		2.30	2.32	-0.9	40.0
Perfluorononanoic acid (PFNA)	AveID	0.998	1.054		2.64	2.50	5.7	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9858	1.011		2.57	2.50	2.6	40.0
8:2FTS	AveID	1.276	1.272		2.39	2.40	-0.3	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9881	1.000		2.53	2.50	1.2	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.001	1.115		2.78	2.50	11.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6800	0.7200		2.55	2.41	5.9	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9342	0.9474		2.54	2.50	1.4	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8622	0.7727		2.24	2.50	-10.4	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.046	1.072		2.56	2.50	2.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.101	1.231		2.80	2.50	11.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2478	0.2574		2.60	2.50	3.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9499		2.59	2.50	3.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9246	0.9587		2.59	2.50	3.7	50.0
13C4 PFBA	Ave	1.266	1.366		2.70	2.50	7.9	50.0
13C5 PFPeA	Ave	0.8399	0.9015		2.68	2.50	7.3	50.0
13C3-PFBS	Ave	0.0192	0.0203		2.46	2.33	5.9	50.0
M2-4:2FTS	Ave	0.1324	0.1399		2.47	2.34	5.7	50.0
13C2 PFHxA	Ave	0.9288	0.9550		2.57	2.50	2.8	50.0
13C4-PFHpA	Ave	0.9164	0.9432		2.57	2.50	2.9	50.0
18O2 PFHxS	Ave	1.130	1.224		2.56	2.37	8.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215294/14 Calibration Date: 03/28/2018 20:10

Instrument ID: A8_N Calib Start Date: 03/21/2018 18:24

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/21/2018 19:11

Lab File ID: 2018.03.28LLDXD_017.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-6:2FTS	Ave	0.1900	0.2010		2.51	2.38	5.8	40.0
13C4 PFOA	Ave	0.9374	0.9239		2.46	2.50	-1.4	50.0
13C4 PFOS	Ave	0.8225	0.8328		2.42	2.39	1.3	50.0
13C5 PFNA	Ave	0.8266	0.7812		2.36	2.50	-5.5	50.0
13C8 FOSA	Ave	1.109	1.225		2.76	2.50	10.4	50.0
M2-8:2FTS	Ave	0.2565	0.2470		2.31	2.40	-3.7	40.0
13C2 PFDA	Ave	0.7245	0.6900		2.38	2.50	-4.8	50.0
d3-NMeFOSAA	Ave	0.3814	0.3308		2.17	2.50	-13.2	50.0
13C2 PFUnA	Ave	0.6482	0.5859		2.26	2.50	-9.6	50.0
d5-NEtFOSAA	Ave	0.4345	0.3596		2.07	2.50	-17.2	50.0
13C2 PFDoA	Ave	0.7355	0.6250		2.12	2.50	-15.0	50.0
13C2-PFTeDA	Ave	0.8983	0.7969		2.22	2.50	-11.3	50.0
13C2-PFHxDA	Ave	1.473	1.464		2.49	2.50	-0.6	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_017.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 28-Mar-2018 20:10:07 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:50:11 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:49:47

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.446	1.441	0.005	0.530	6261710	2.70		108	85060	
2 Perfluorobutyric acid										
212.90 > 169.00	1.446	1.446	0.0	1.000	5950781	2.52		101	3089	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.000	4761612	2.56		102	1841	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.718	-0.001	0.630	4131036	2.68		107	101131	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.753	1.753	0.0	1.000	6608283	2.28		103	4156	
298.90 > 99.00	1.753	1.753	0.0	1.000	2759028		2.40(1.25-3.74)		4025	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.754	-0.001	0.643	86553	2.46		106	549	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.976	1.976	0.0	1.000	1348154	2.24		96.0	62140	
D 60 M2-4:2FTS										
329.00 > 81.00	1.976	1.976	0.0	0.725	598930	2.47		106	9065	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.008	2.008	0.0	1.000	4505978	2.52		101	7275	
313.00 > 119.00	2.008	2.008	0.0	1.000	418402		10.77(5.03-15.10)		5722	
D 7 13C2 PFHxA										
315.00 > 270.00	2.008	2.019	-0.011	0.736	4376327	2.57		103	131340	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.353	2.353	0.0	1.000	4463436	2.50		99.8	3484	
363.00 > 169.00	2.353	2.353	0.0	1.000	1766383		2.53(1.13-3.40)		4579	
D 9 13C4-PFHpA										
367.00 > 322.00	2.353	2.354	-0.001	0.863	4322354	2.57		103	92700	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.367	2.367	0.0	1.000	5462398	2.19		96.2	18510	
399.00 > 99.00	2.367	2.367	0.0	1.000	1793193		3.05(1.50-4.49)		8276	
D 11 18O2 PFHxS										
403.00 > 84.00	2.367	2.368	-0.001	0.868	5304336	2.56		108	61842	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.695	2.695	0.0	1.000	1540016	2.40		101	17369	
D 12 M2-6:2FTS										
429.00 > 81.00	2.695	2.705	-0.010	0.988	874950	2.51		106	27991	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.726	2.726	0.0	1.000	5118102	2.62		110	78842	
449.00 > 99.00	2.726	2.726	0.0	1.000	1319069		3.88(1.94-5.82)		30062	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.726	2.726	0.0	1.003	4987083	2.61		104	1949	
413.00 > 169.00	2.726	2.726	0.0	1.003	2578385		1.93(0.84-2.52)		9956	
* 62 13C2-PFOA										
415.00 > 370.00	2.726	2.726	0.0		4582531	2.50			104480	
D 14 13C4 PFOA										
417.00 > 372.00	2.718	2.728	-0.010	0.997	4233987	2.46		98.6	68451	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.095	3.095	0.0	1.000	3908264	2.30		99.1	7781	
499.00 > 99.00	3.095	3.095	0.0	1.000	880090		4.44(2.31-6.93)		29705	
20 Perfluorononanoic acid										
463.00 > 419.00	3.103	3.103	0.0	1.000	3774305	2.64		106	3386	
463.00 > 169.00	3.103	3.103	0.0	1.000	875409		4.31(1.90-5.69)		20158	
D 19 13C5 PFNA										
468.00 > 423.00	3.103	3.112	-0.009	1.138	3579744	2.36		94.5	91563	
D 18 13C4 PFOS										
503.00 > 80.00	3.095	3.112	-0.017	1.135	3648351	2.42		101	34378	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.417	3.417	0.0	1.000	5675160	2.56		103	51945	
D 21 13C8 FOSA										
506.00 > 78.00	3.417	3.418	-0.001	1.253	5611625	2.76		110	61929	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.454	3.454	0.0	1.000	1379280	2.39		99.7	19807	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.463	3.463	0.0	1.000	3161822	2.53		101	14059	
513.00 > 169.00	3.463	3.463	0.0	1.000	568812		5.56(2.36-7.09)		15278	
D 26 M2-8:2FTS										
529.00 > 81.00	3.454	3.464	-0.010	1.267	1084365	2.31		96.3	28886	
D 23 13C2 PFDA										
515.00 > 470.00	3.463	3.473	-0.010	1.270	3162000	2.38		95.2	40242	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.623	3.623	0.0	1.000	1689898	2.78		111	11731	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.623	3.633	-0.010	1.329	1516084	2.17		86.8	35047	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.781	3.781	0.0	1.000	2648669	2.55		106	60097	
599.00 > 99.00	3.781	3.781	0.0	1.000	890297		2.98(1.39-4.16)		20184	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.792	3.792	0.0	1.000	1561001	2.54		101	38577	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.802	3.802	0.0	1.003	2074449	2.24		89.6	4501	
563.00 > 169.00	3.802	3.802	0.0	1.003	533757		3.89(2.12-6.36)		40526	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.792	3.804	-0.012	1.391	1647666	2.07		82.8	3626	
D 30 13C2 PFUnA										
565.00 > 520.00	3.792	3.804	-0.012	1.391	2684709	2.26		90.4	59601	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.092	4.092	0.0	1.000	3070277	2.56		102	2347	
613.00 > 169.00	4.092	4.092	0.0	1.000	771707		3.98(2.13-6.40)		10407	
D 36 13C2 PFDoA										
615.00 > 570.00	4.092	4.105	-0.013	1.501	2864054	2.12		85.0	20730	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.356	4.356	0.0	1.000	3524624	2.80		112	1467	
663.00 > 169.00	4.356	4.356	0.0	1.000	1064528		3.31(1.25-3.76)		14941	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.601	4.601	0.0	1.000	939817	2.60		104	9476	
713.00 > 219.00	4.590	4.601	-0.011	0.998	659758		1.42(0.71-2.13)		8819	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.601	4.613	-0.012	1.688	3651628	2.22		88.7	24528	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.012	5.012	0.0	1.000	6372810	2.59		104	1325	
813.00 > 169.00	5.012	5.012	0.0	1.000	1035424		6.15(2.86-8.58)		7078	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.012	5.040	-0.028	1.838	6709307	2.49		99.4	16930	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.387	5.387	0.0	1.000	6432363	2.59		104	1491	
913.00 > 169.00	5.387	5.387	0.0	1.000	816489		7.88(3.83-11.48)		5416	

Reagents:

LCPFC_LL5_00004 Amount Added: 1.00 Units: mL

Report Date: 29-Mar-2018 07:50:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_017.d

Injection Date: 28-Mar-2018 20:10:07 Instrument ID: A8_N

Lims ID: CCV L5

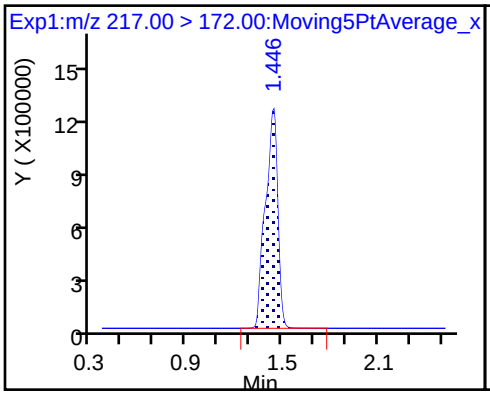
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 14

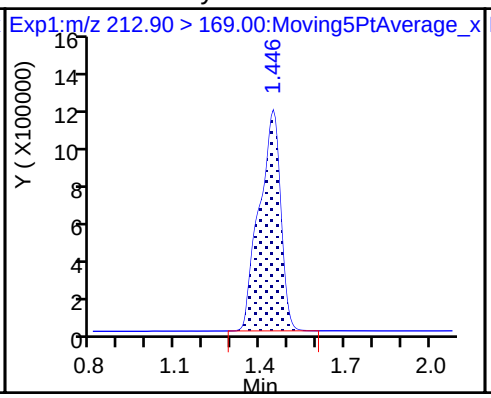
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

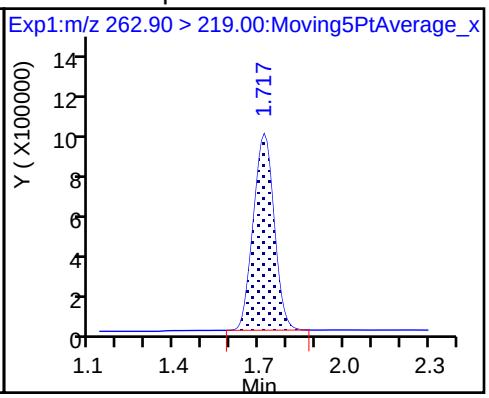
D 1 13C4 PFBA



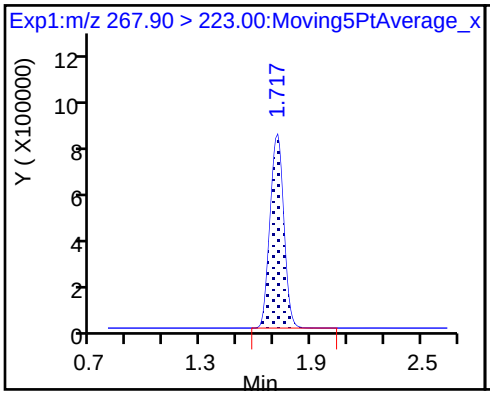
2 Perfluorobutyric acid



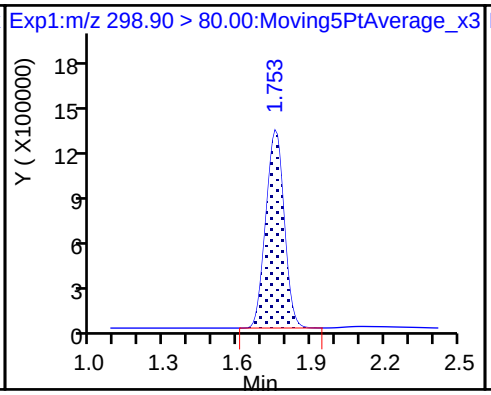
4 Perfluoropentanoic acid



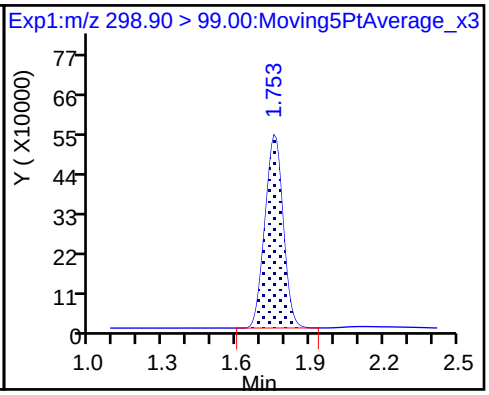
D 3 13C5-PFPeA



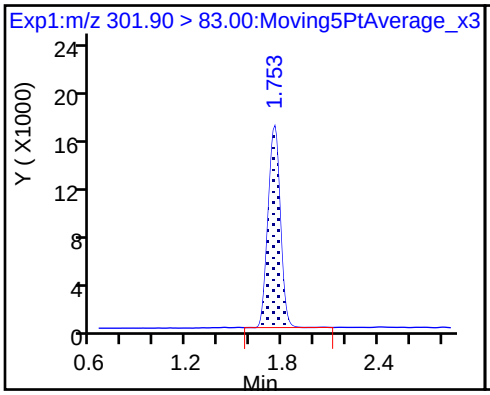
5 Perfluorobutanesulfonic acid



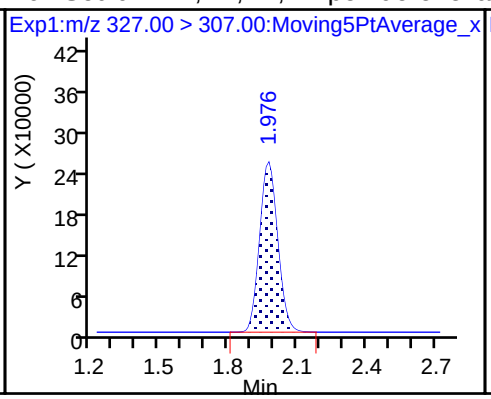
5 Perfluorobutanesulfonic acid



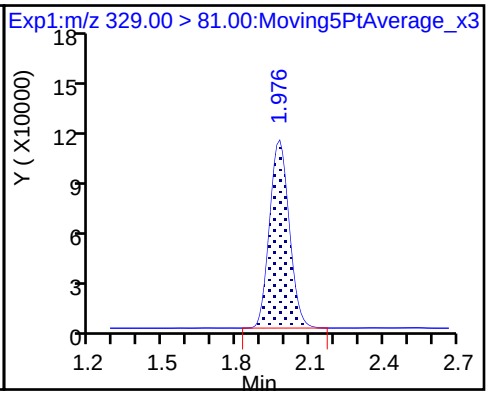
D 47 13C3-PFBS



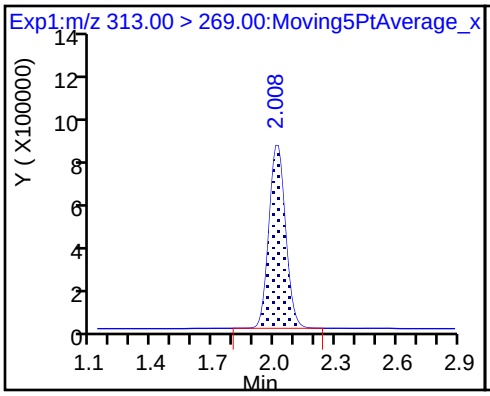
61 Sodium 1H,1H,2H,2H-perfluorohexane



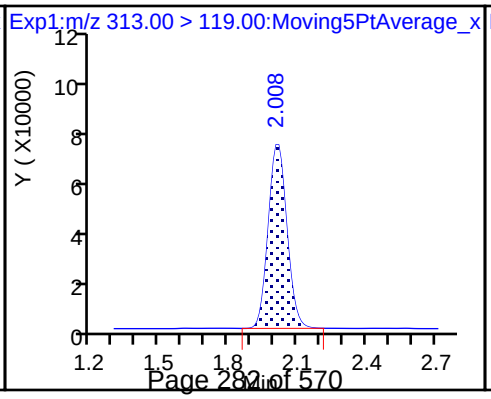
D 60 M2-4:2FTS



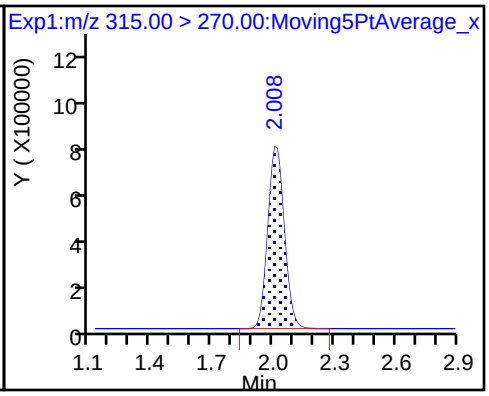
6 Perfluorohexanoic acid



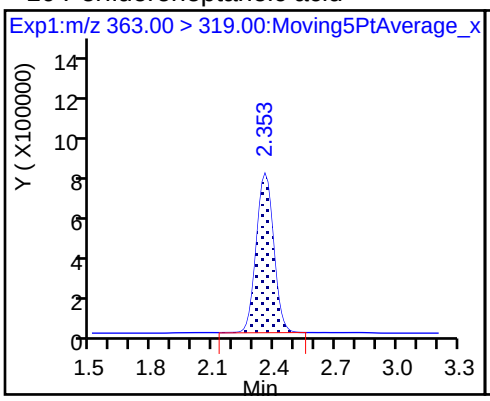
6 Perfluorohexanoic acid



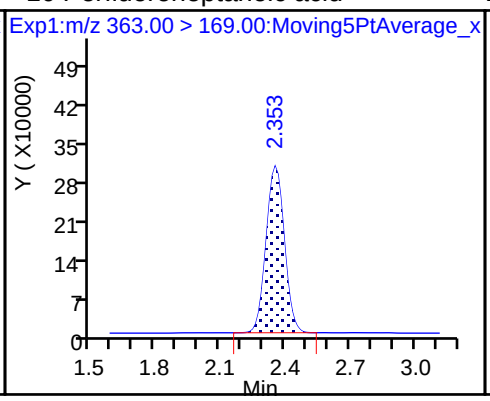
D 7 13C2 PFHxA



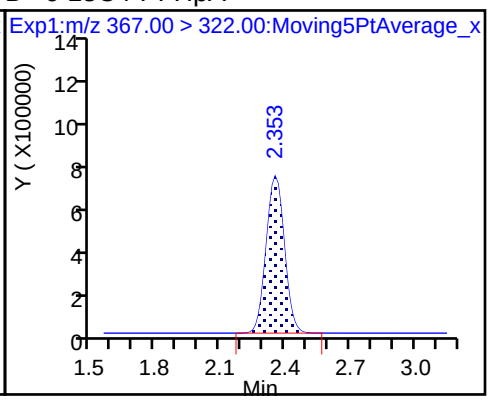
10 Perfluoroheptanoic acid



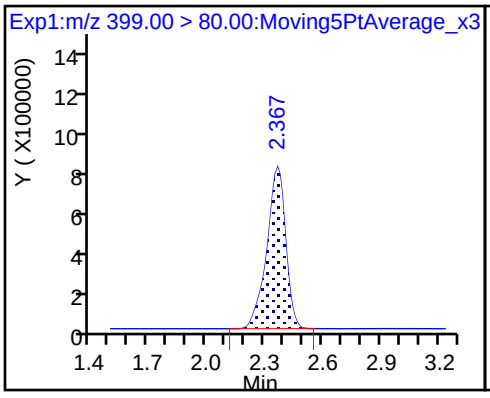
10 Perfluoroheptanoic acid



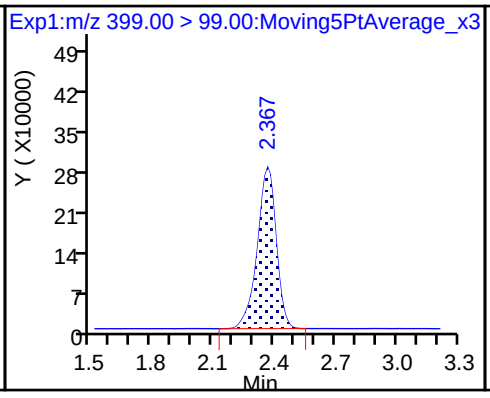
D 9 13C4-PFHpA



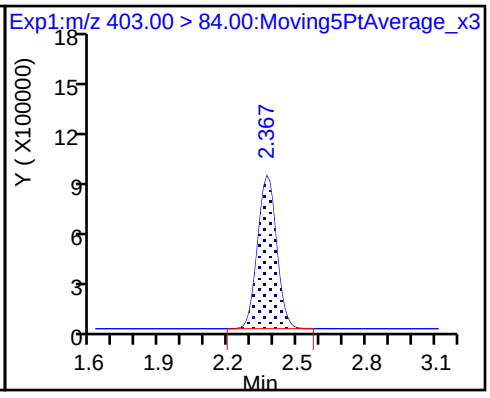
8 Perfluorohexanesulfonic acid



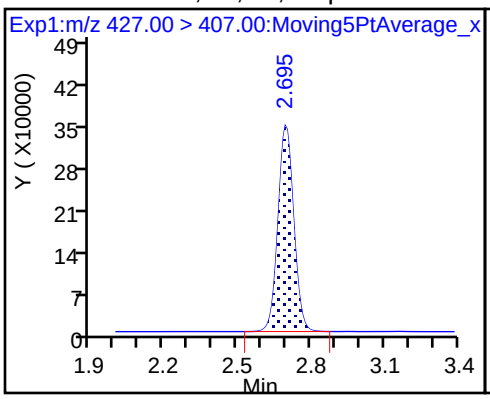
8 Perfluorohexanesulfonic acid



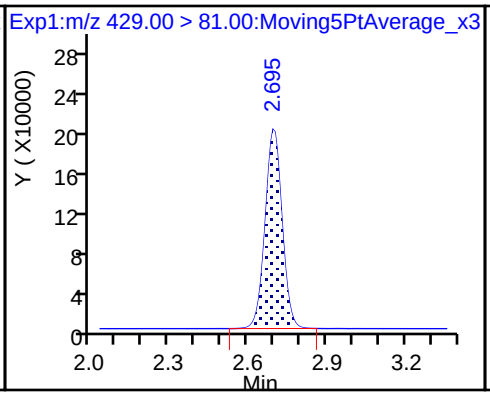
D 11 18O2 PFHxS



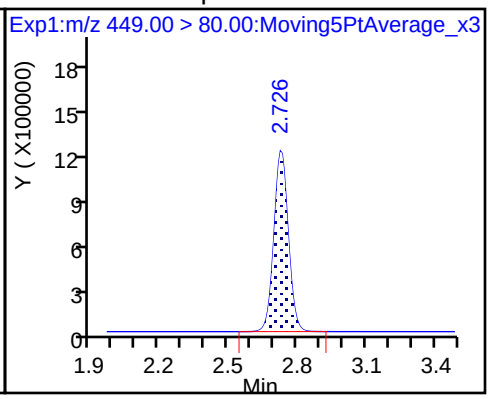
13 Sodium 1H,1H,2H,2H-perfluorooctane



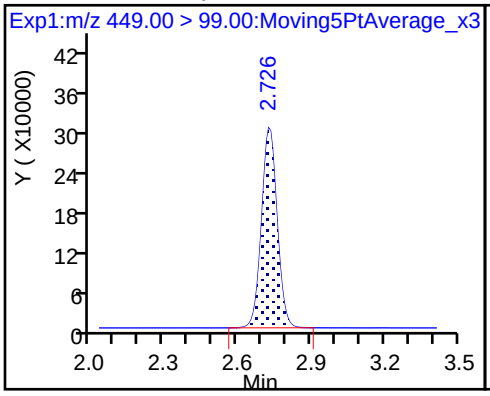
D 12 M2-6:2FTS



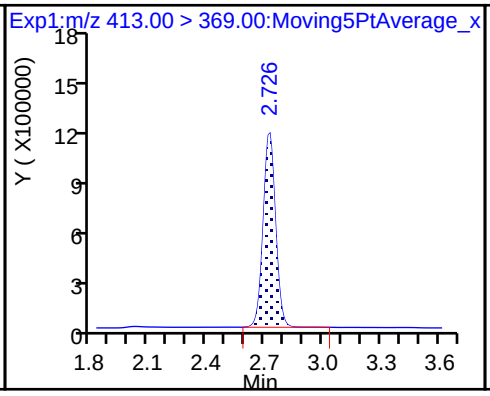
16 Perfluoroheptanesulfonic acid



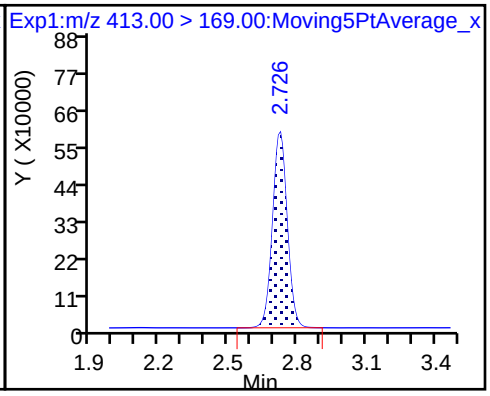
16 Perfluoroheptanesulfonic acid



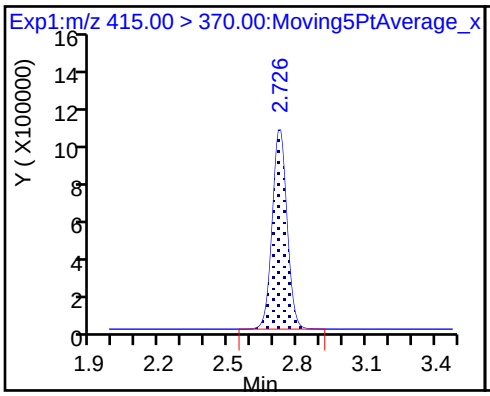
15 Perfluorooctanoic acid



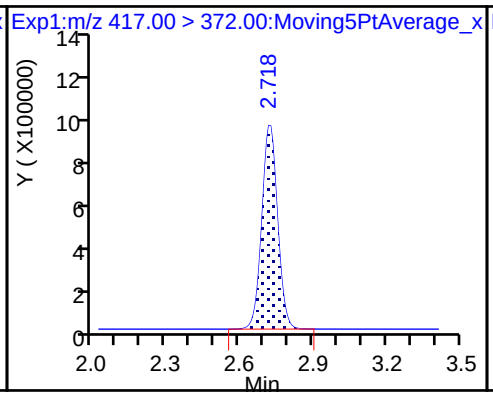
15 Perfluorooctanoic acid



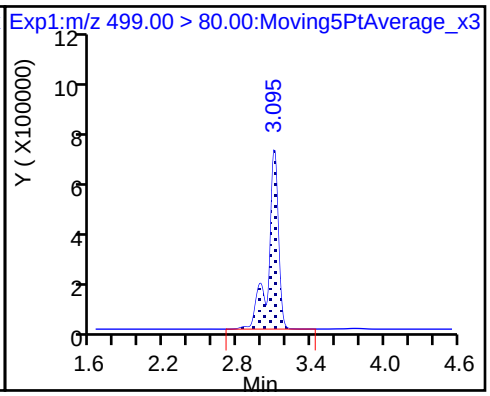
* 62 13C2-PFOA



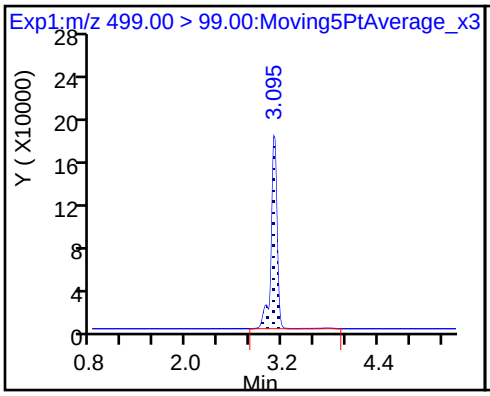
D 14 13C4 PFOA



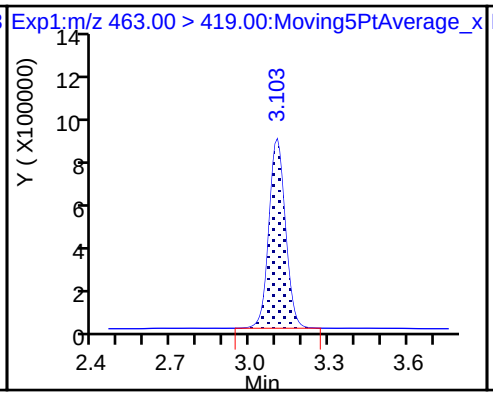
17 Perfluorooctane sulfonic acid



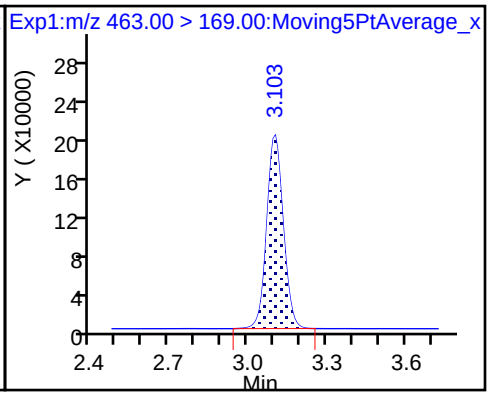
17 Perfluorooctane sulfonic acid



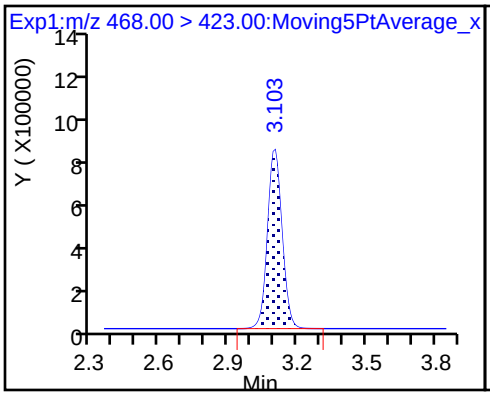
20 Perfluorononanoic acid



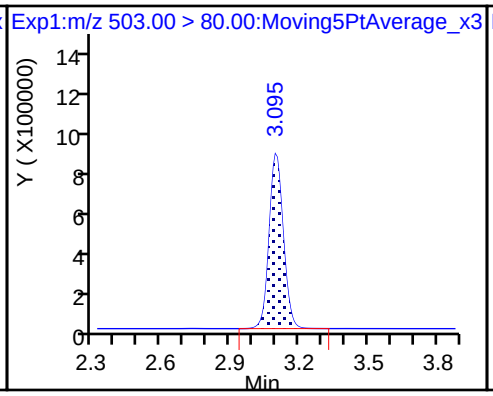
20 Perfluorononanoic acid



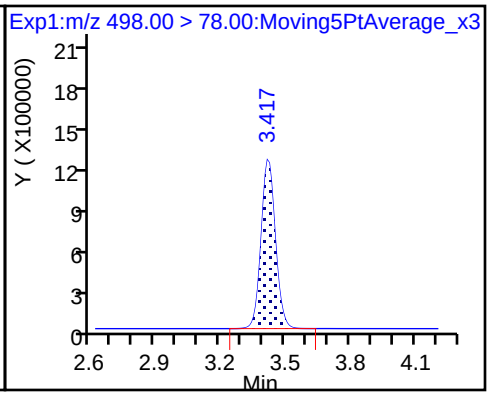
D 19 13C5 PFNA



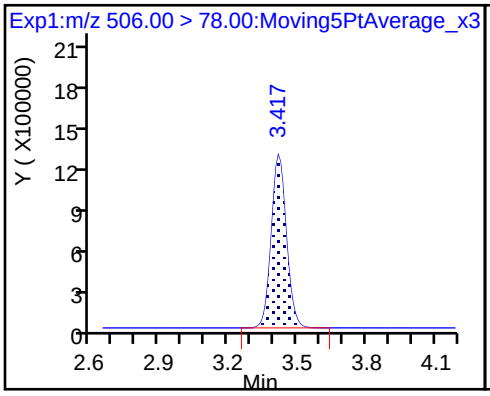
D 18 13C4 PFOS



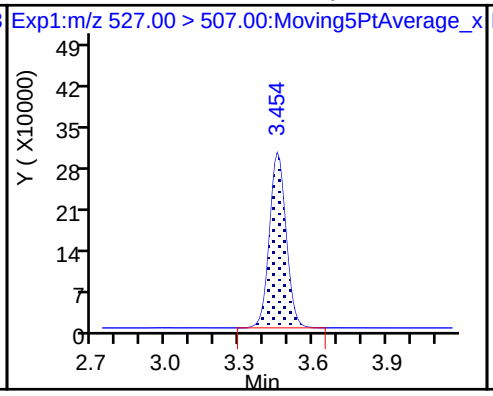
22 Perfluorooctane Sulfonamide



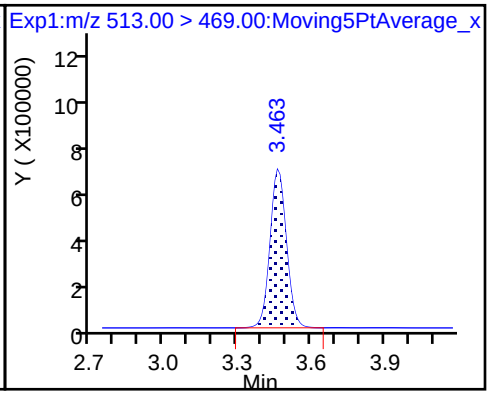
D 21 13C8 FOSA



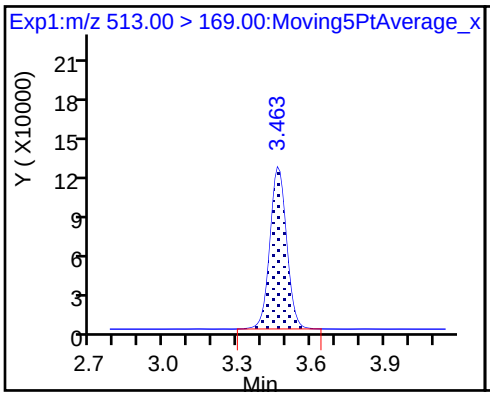
25 Sodium 1H,1H,2H,2H-perfluorodecan



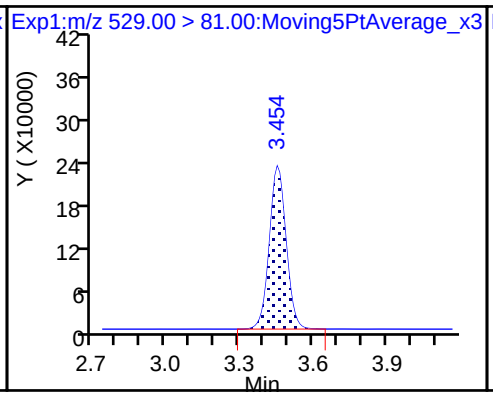
24 Perfluorodecanoic acid



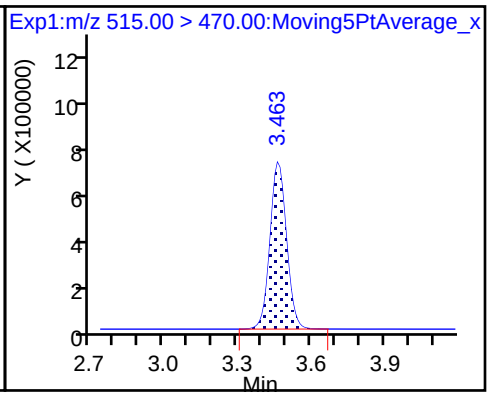
24 Perfluorodecanoic acid



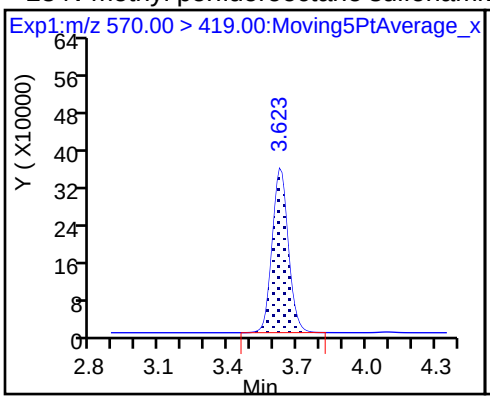
D 26 M2-8:2FTS



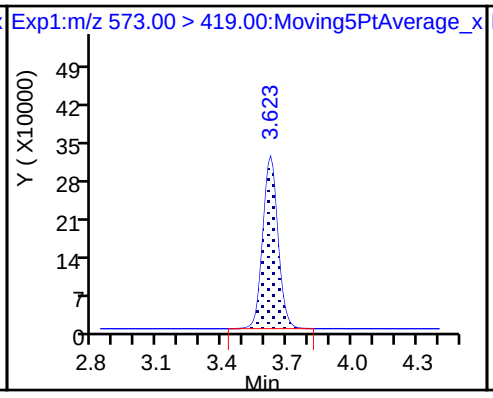
D 23 13C2 PFDA



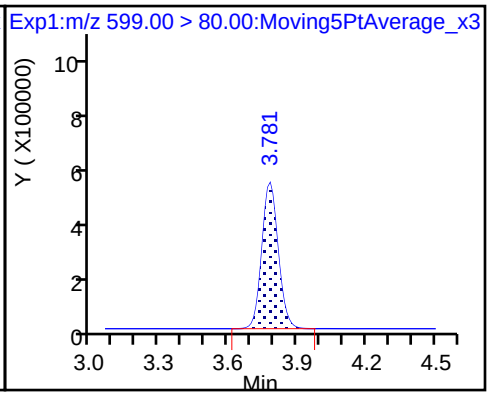
28 N-methyl perfluorooctane sulfonami



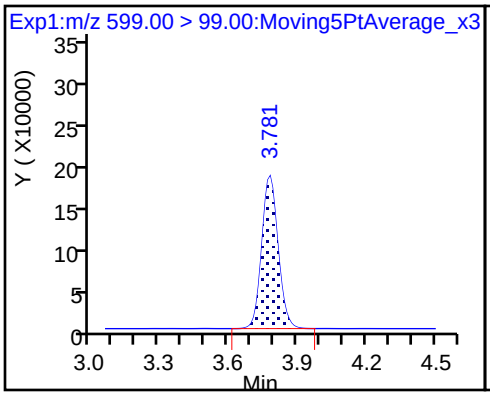
D 27 d3-NMeFOSAA



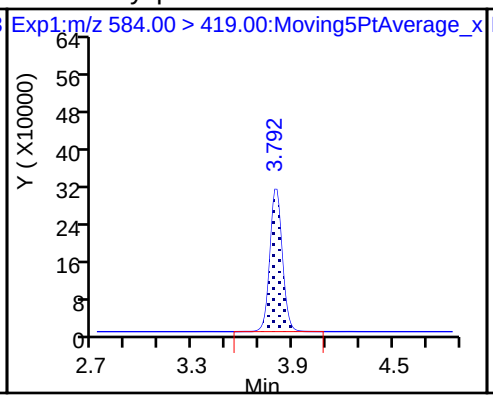
29 Perfluorodecane Sulfonic acid



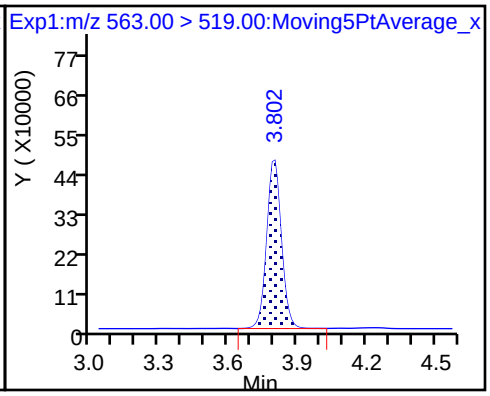
29 Perfluorodecane Sulfonic acid



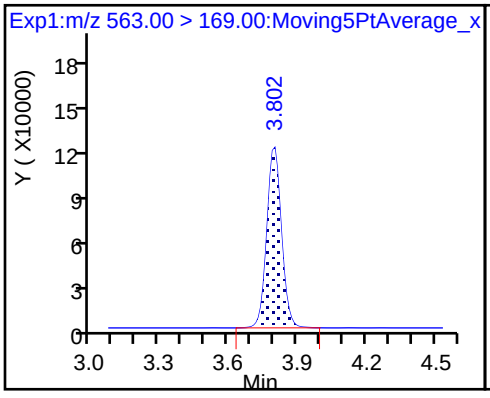
33 N-ethyl perfluorooctane sulfonamid



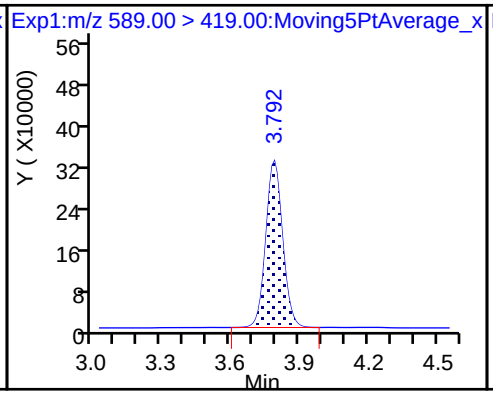
31 Perfluoroundecanoic acid



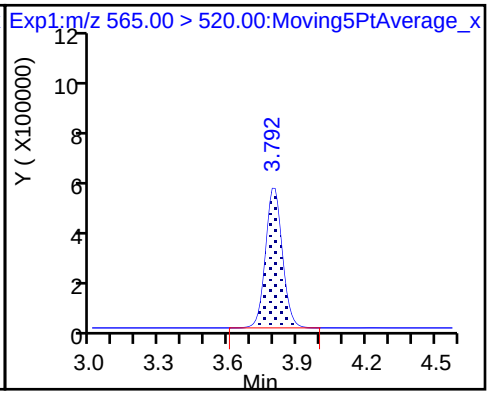
31 Perfluoroundecanoic acid



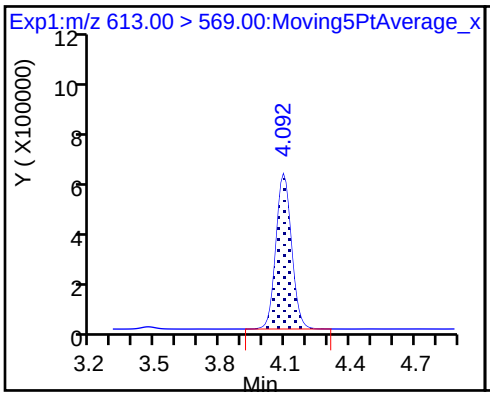
D 32 d5-NEtFOSAA



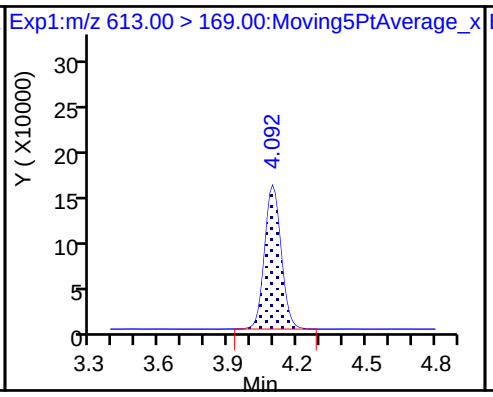
D 30 13C2 PFUnA



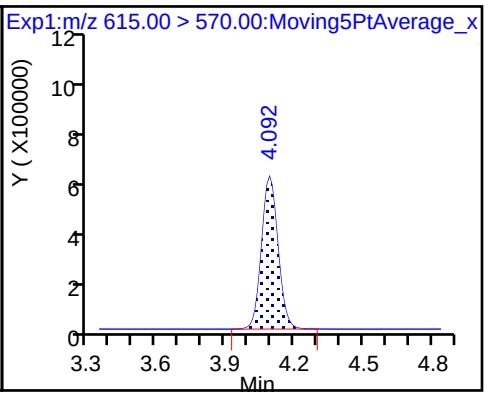
37 Perfluorododecanoic acid



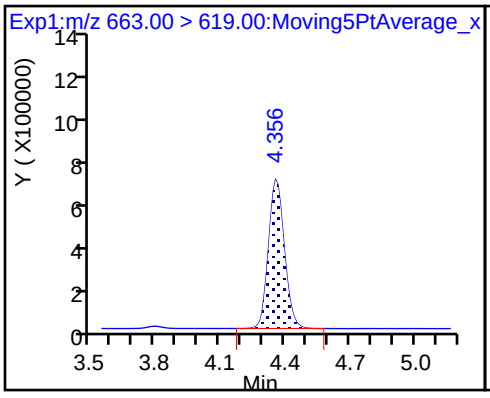
37 Perfluorododecanoic acid



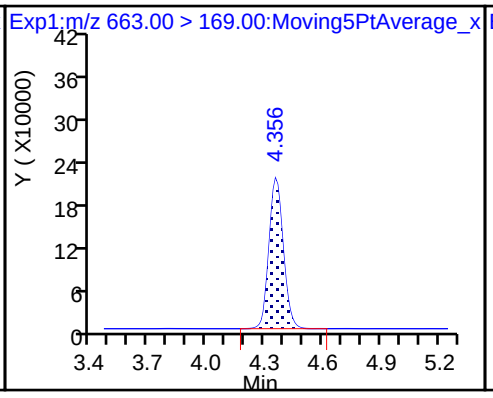
D 36 13C2 PFDoA



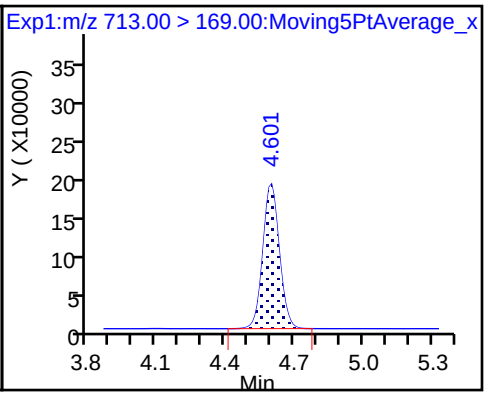
41 Perfluorotridecanoic acid



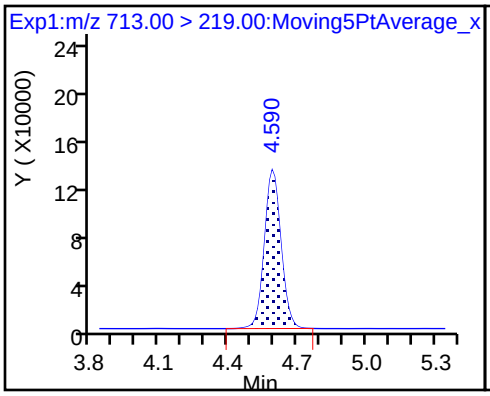
41 Perfluorotridecanoic acid



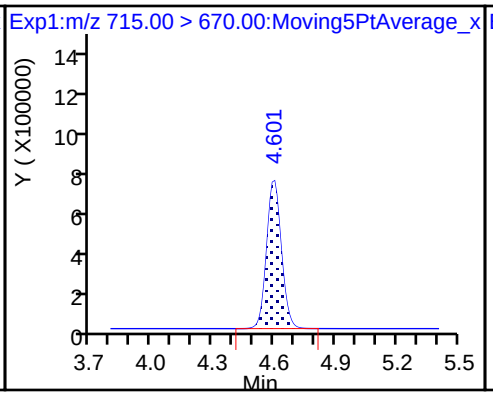
42 Perfluorotetradecanoic acid



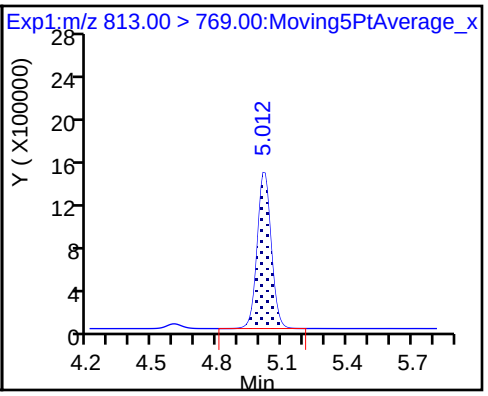
42 Perfluorotetradecanoic acid



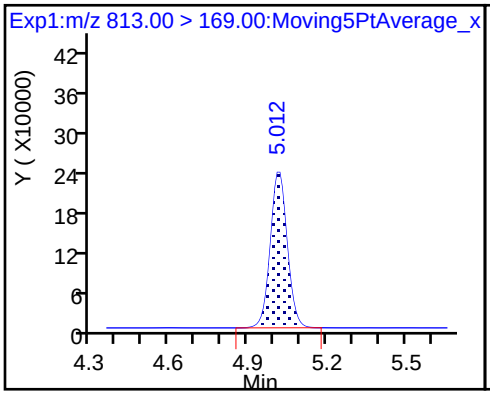
D 43 13C2-PFTeDA



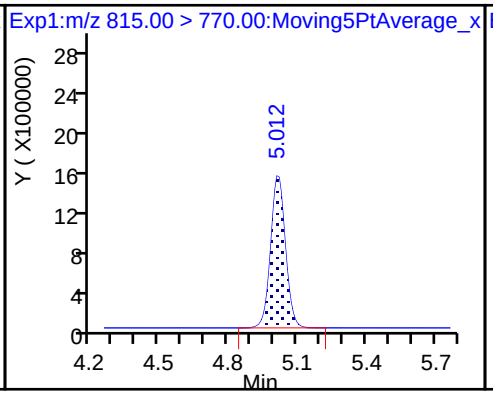
45 Perfluorohexadecanoic acid



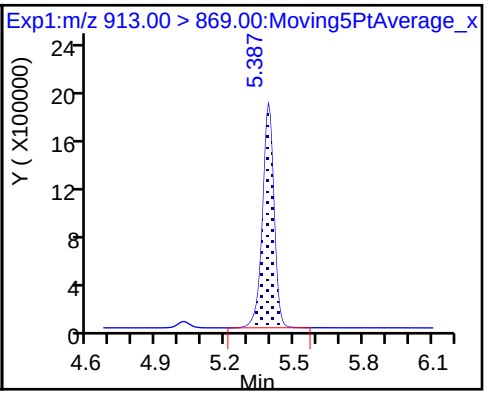
45 Perfluorohexadecanoic acid



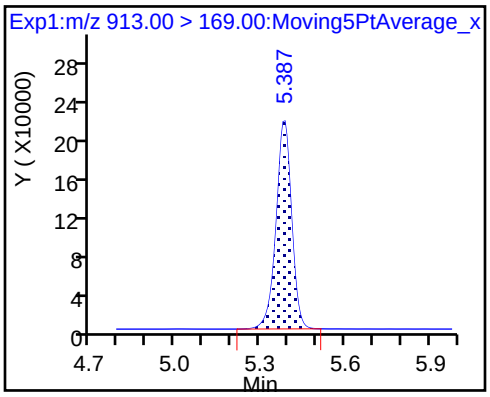
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: ICV 320-215537/10 Calibration Date: 03/29/2018 18:29

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.29A_ICALB_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.9691		2.62	2.50	4.9	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.180		2.46	2.50	-1.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	83.68		2.35	2.21	6.1	50.0
4:2 FTS	AveID	17.26	17.19		2.33	2.34	-0.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	0.9907		2.42	2.50	-3.2	40.0
HFPO-DA (GenX)	AveID	3.401	2.903		2.13	2.50	-14.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.115		2.57	2.50	2.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.043		2.13	2.28	-6.6	40.0
Adona	AveID	3.564	3.450		2.42	2.50	-3.2	50.0
6:2FTS	AveID	1.868	1.701		2.16	2.38	-8.9	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.133		2.39	2.50	-4.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.324		2.36	2.38	-0.7	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.006		2.45	2.50	-2.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.095		2.22	2.31	-4.2	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.817		2.27	2.33	-2.8	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	1.023		2.59	2.50	3.6	40.0
8:2FTS	AveID	1.349	1.180		2.10	2.40	-12.5	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	1.006		2.54	2.50	1.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.003		2.38	2.50	-4.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6843		2.38	2.41	-1.4	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9283		2.53	2.50	1.2	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.7388		2.30	2.50	-7.9	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.846		2.31	2.36	-2.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.021		2.36	2.50	-5.6	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.208		2.61	2.50	4.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2605		2.61	2.50	4.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9134		2.39	2.50	-4.4	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	1.059		2.67	2.50	6.7	50.0
13C4 PFBA	Ave	1.382	1.385		2.51	2.50	0.2	50.0
13C5 PFPeA	Ave	0.8994	0.9172		2.55	2.50	2.0	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: ICV 320-215537/10 Calibration Date: 03/29/2018 18:29

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.29A_ICALB_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3-PFBS	Ave	0.0206	0.0204		2.31	2.33	-0.8	50.0
M2-4:2FTS	Ave	0.1573	0.1544		2.29	2.34	-1.9	50.0
13C2 PFHxA	Ave	0.9916	1.056		2.66	2.50	6.5	50.0
13C3 HFPO-DA	Ave	0.0494	0.0554		2.81	2.50	12.2	50.0
13C4-PFHpA	Ave	0.9533	0.9410		2.47	2.50	-1.3	50.0
18O2 PFHxS	Ave	1.189	1.232		2.45	2.37	3.6	50.0
M2-6:2FTS	Ave	0.2203	0.2135		2.30	2.38	-3.1	40.0
13C4 PFOA	Ave	0.9372	0.9746		2.60	2.50	4.0	50.0
13C4 PFOS	Ave	0.8257	0.8710		2.52	2.39	5.5	50.0
13C5 PFNA	Ave	0.7930	0.8274		2.61	2.50	4.3	50.0
13C8 FOSA	Ave	1.166	1.176		2.52	2.50	0.8	50.0
M2-8:2FTS	Ave	0.2562	0.2837		2.65	2.40	10.7	40.0
13C2 PFDA	Ave	0.6698	0.6846		2.56	2.50	2.2	50.0
d3-NMeFOSAA	Ave	0.3583	0.3650		2.55	2.50	1.9	50.0
13C2 PFUnA	Ave	0.5468	0.5737		2.62	2.50	4.9	50.0
d5-NEtFOSAA	Ave	0.3760	0.3766		2.50	2.50	0.2	50.0
13C2 PFDoA	Ave	0.6087	0.6206		2.55	2.50	2.0	50.0
13C2-PFTeDA	Ave	0.7733	0.8183		2.65	2.50	5.8	50.0
13C2-PFHxDA	Ave	1.194	1.281		2.68	2.50	7.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 29-Mar-2018 18:29:58 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 30-Mar-2018 11:48:50 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK004

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.436	0.0	1.000	5866875	2.51		100	35721	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.437	-0.001	1.000	5685461	2.62			3043	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.702	0.001	0.557	3884836	2.55		102	94661	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.706	-0.003	1.000	4582257	2.46			1820	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.738	0.001	1.000	80528	2.31		99.2	536	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.742	-0.003	1.000	6412695	2.35			4490	
298.90 > 99.00	1.739	1.742	-0.003	1.000	2635203		2.43(1.25-3.74)		4150	
D 60 M2-4:2FTS										
329.00 > 81.00	1.949	1.955	-0.006	1.000	610659	2.29		98.1	9238	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.949	1.955	-0.006	1.000	1391984	2.33			62713	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.003	1.000	4471659	2.66		106	132095	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.992	0.001	1.000	4430163	2.42			6896	
313.00 > 119.00	1.993	1.992	0.001	1.000	399932		11.08(5.03-15.10)		5086	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.013	0.003	1.000	6018666	2.44			131994	
349.00 > 99.00	2.016	2.013	0.003	1.000	2182963		2.76(1.36-4.07)		38268	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.092	0.003	1.005	681292	2.13			6377	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.083	2.092	-0.009	1.000	234699	2.81		112	3552	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.326	-0.006	1.000	3985700	2.47		98.7	93843	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.320	2.327	-0.007	1.000	4445785	2.57			4554	
363.00 > 169.00	2.320	2.327	-0.007	1.000	1739491		2.56(1.13-3.40)		4797	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.333	2.339	-0.006	1.000	4962874	2.13			20045	
399.00 > 99.00	2.333	2.339	-0.006	1.000	1688661		2.94(1.50-4.49)		8480	
D 11 18O2 PFHxS										
403.00 > 84.00	2.333	2.340	-0.007	1.000	4936288	2.45		104	91363	
65 Adona										
377.00 > 251.00	2.360	2.372	-0.012	1.000	12726761	2.42			119055	
377.00 > 85.00	2.360	2.372	-0.012	1.000	7744083		1.64(0.84-2.53)		72762	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.661	2.664	-0.003	1.000	1461178	2.16			9796	
D 12 M2-6:2FTS										
429.00 > 81.00	2.661	2.664	-0.003	1.000	859005	2.30		96.9	20963	
D 14 13C4 PFOA										
417.00 > 372.00	2.683	2.688	-0.005	1.000	4128027	2.60		104	78774	
* 62 13C2-PFOA										
415.00 > 370.00	2.683	2.689	-0.006		4235745	2.50			87767	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.683	2.690	-0.007	1.000	4677462	2.39			1552	
413.00 > 169.00	2.683	2.690	-0.007	1.000	2409069		1.94(0.84-2.52)		9212	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.691	2.695	-0.004	1.000	4639777	2.36			56672	
449.00 > 99.00	2.691	2.695	-0.004	1.000	1202717		3.86(1.94-5.82)		21160	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.057	3.060	-0.003	1.000	3737562	2.22			8787	
499.00 > 99.00	3.057	3.060	-0.003	1.000	720418		5.19(2.31-6.93)		464	
D 18 13C4 PFOS										
503.00 > 80.00	3.057	3.060	-0.003	1.000	3526996	2.52		105	40641	
D 19 13C5 PFNA										
468.00 > 423.00	3.057	3.061	-0.004	1.000	3504658	2.61		104	83145	
20 Perfluorononanoic acid										
463.00 > 419.00	3.057	3.064	-0.007	1.000	3526566	2.44			4049	
463.00 > 169.00	3.057	3.064	-0.007	1.000	859845		4.10(1.90-5.69)		29311	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.264	3.272	-0.008	1.000	6249227	2.26			55847	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	4980134	2.52		101	55607	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.385	3.389	-0.004	1.000	5095974	2.59			40050	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.404	3.409	-0.005	1.000	2784756	2.35			74221	
549.00 > 99.00	3.404	3.409	-0.005	1.000	999926		2.78(1.33-3.97)		29756	
D 26 M2-8:2FTS										
529.00 > 81.00	3.404	3.413	-0.009	1.000	1151010	2.65		111	29973	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.415	-0.002	1.003	1361017	2.10			12730	
D 23 13C2 PFDA										
515.00 > 470.00	3.423	3.423	0.0	1.000	2899919	2.56		102	40184	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.423	3.427	-0.004	1.000	2916936	2.54			14399	
513.00 > 169.00	3.423	3.427	-0.004	1.000	530427		5.50(2.36-7.09)		18164	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.572	3.578	-0.006	1.000	1546192	2.55		102	51215	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.572	3.581	-0.009	1.000	1550394	2.38			12123	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.737	3.738	-0.001	1.000	2436159	2.38			46929	
599.00 > 99.00	3.726	3.738	-0.012	0.997	816763		2.98(1.39-4.16)		17405	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.748	3.749	-0.001	1.000	1595099	2.50		100	4398	
D 30 13C2 PFUnA										
565.00 > 520.00	3.748	3.753	-0.005	1.000	2429894	2.62		105	67252	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.748	3.755	-0.007	1.000	1480729	2.53			28105	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.748	3.755	-0.007	1.000	1795273	2.30			7420	
563.00 > 169.00	3.748	3.755	-0.007	1.000	481282		3.73(2.12-6.36)		11523	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.905	3.910	-0.005	1.000	9889084	2.31			180484	
D 36 13C2 PFDoA										
615.00 > 570.00	4.048	4.052	-0.004	1.000	2628521	2.55		102	23455	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.048	4.052	-0.004	1.000	2683041	2.36			2117	
613.00 > 169.00	4.048	4.052	-0.004	1.000	683577		3.93(2.13-6.40)		12213	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.307	4.316	-0.009	1.000	3176156	2.61			1265	
663.00 > 169.00	4.307	4.316	-0.009	1.000	1022977		3.10(1.25-3.76)		16879	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.552	4.558	-0.006	1.000	902844	2.61			12080	
713.00 > 219.00	4.552	4.558	-0.006	1.000	595672		1.52(0.71-2.13)		13000	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.552	4.558	-0.006	1.000	3466082	2.65		106	20467	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.974	4.977	-0.003	1.000	5424012	2.68		107	13917	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.974	4.977	-0.003	1.000	4954065	2.39			1097	
813.00 > 169.00	4.974	4.977	-0.003	1.000	839472		5.90(2.86-8.58)		5486	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.335	5.344	-0.009	1.000	5746232	2.67			862	
913.00 > 169.00	5.335	5.344	-0.009	1.000	687269		8.36(3.83-11.48)		5386	

Reagents:

LCPFCIC_FULL_00011 Amount Added: 1.00 Units: mL

Report Date: 30-Mar-2018 11:48:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_010.d

Injection Date: 29-Mar-2018 18:29:58 Instrument ID: A8_N

Lims ID: ICV Full

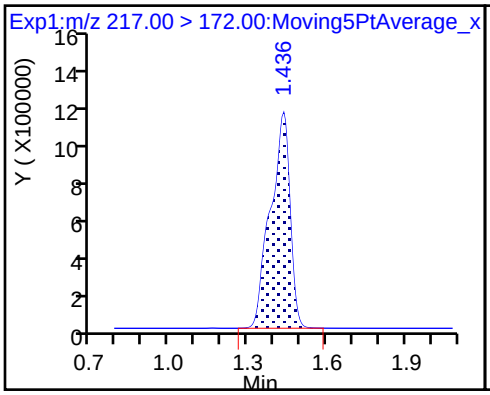
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 18 Worklist Smp#: 10

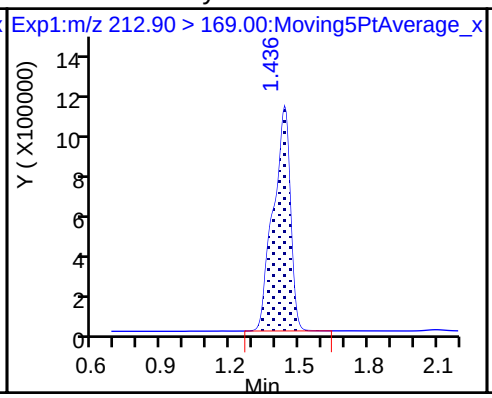
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

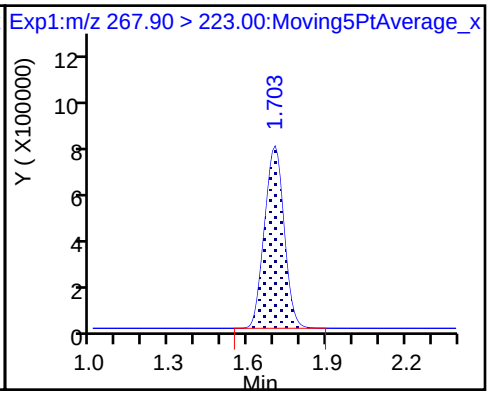
D 1 13C4 PFBA



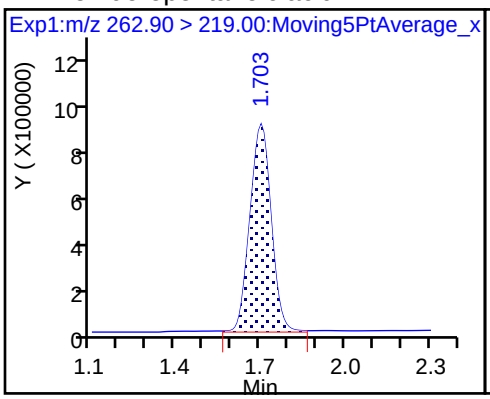
2 Perfluorobutyric acid



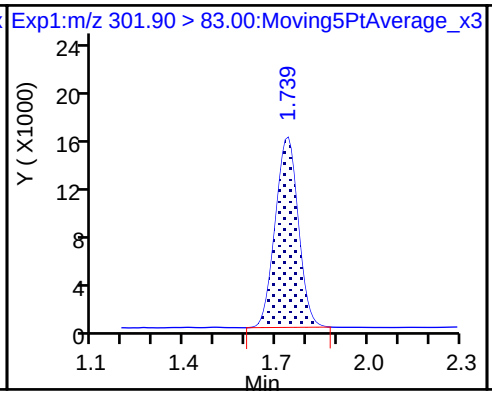
D 3 13C5-PFPeA



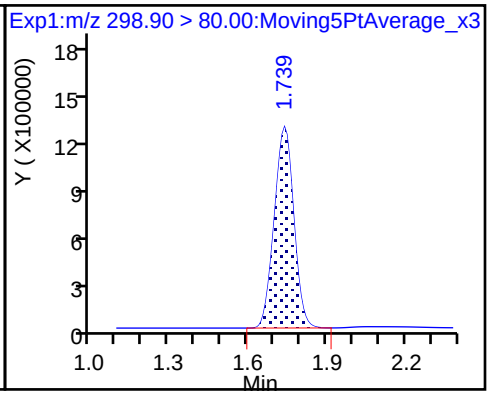
4 Perfluoropentanoic acid



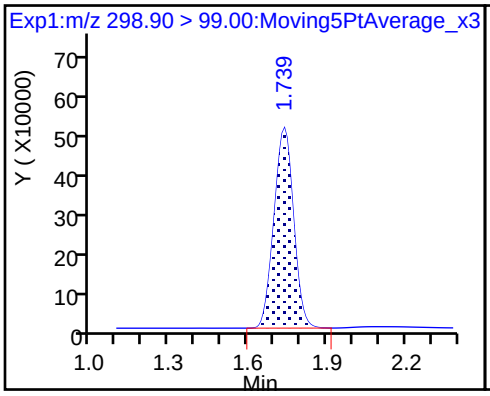
D 47 13C3-PFBS



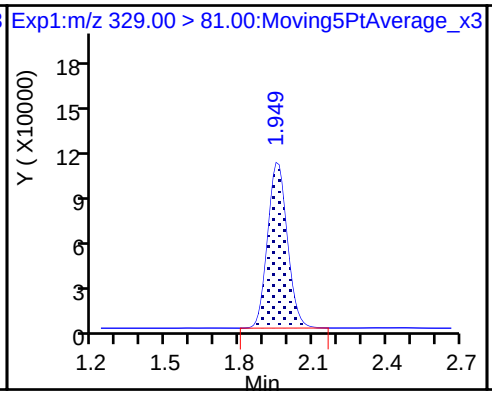
5 Perfluorobutanesulfonic acid



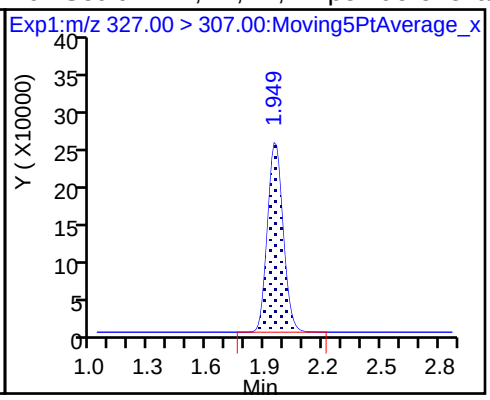
5 Perfluorobutanesulfonic acid



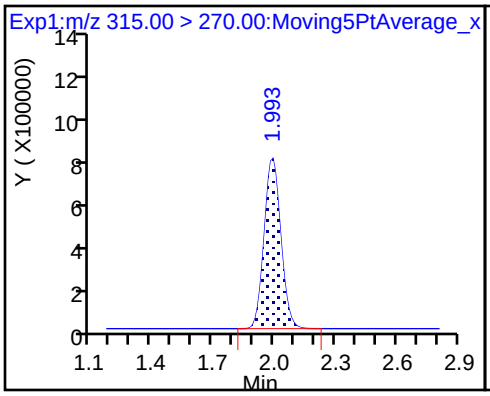
D 60 M2-4:2FTS



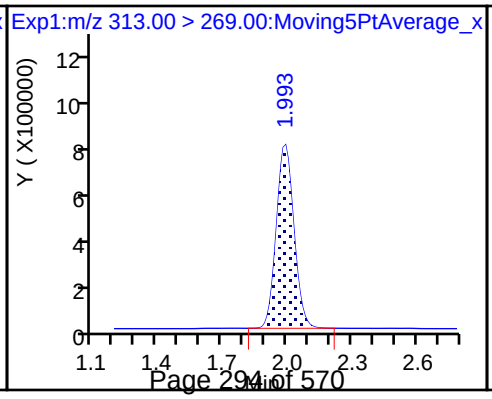
61 Sodium 1H,1H,2H,2H-perfluorohexane



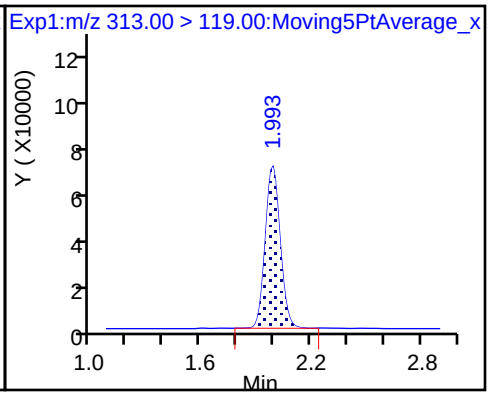
D 7 13C2 PFHxA



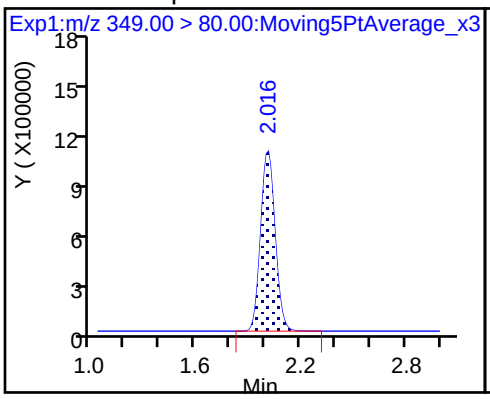
6 Perfluorohexanoic acid



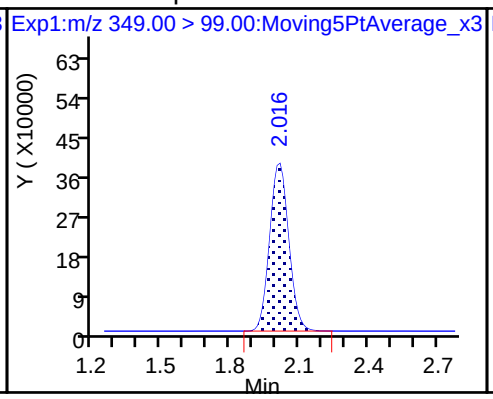
6 Perfluorohexanoic acid



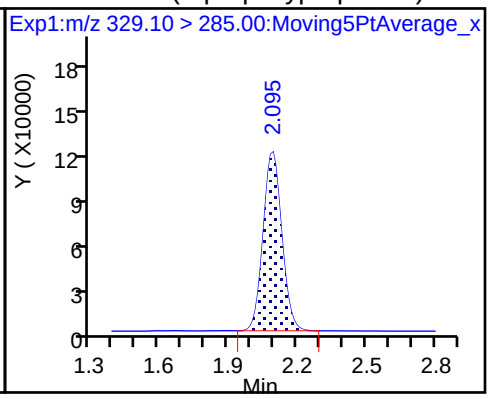
70 Perfluoropentanesulfonic acid



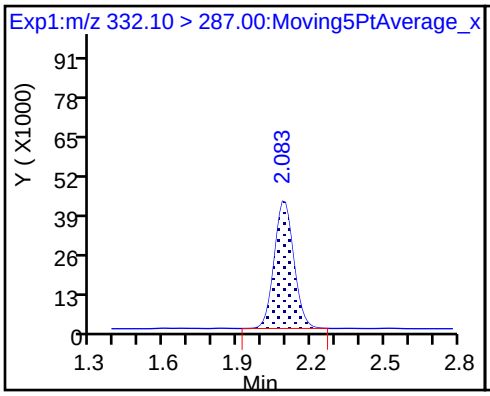
70 Perfluoropentanesulfonic acid



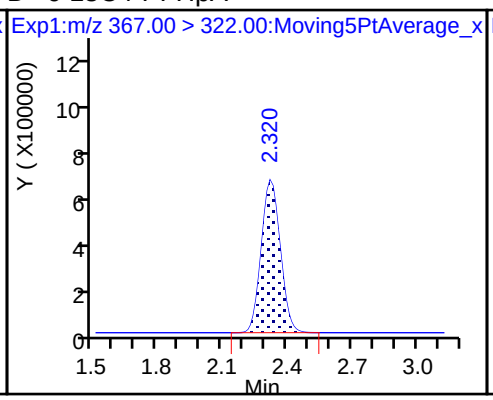
67 Perfluoro(2-propoxypropanoic) acid



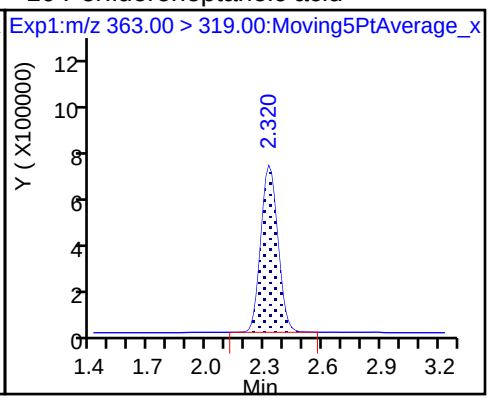
D 64 13C3 HFPO-DA



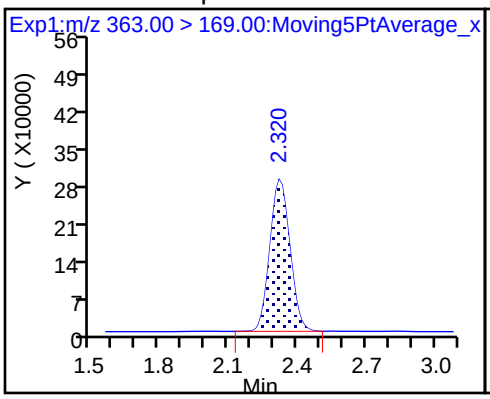
D 9 13C4-PFHpA



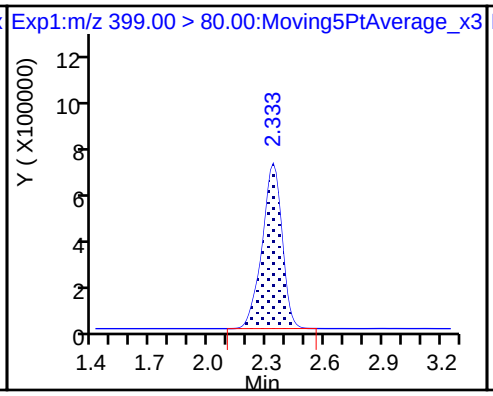
10 Perfluoroheptanoic acid



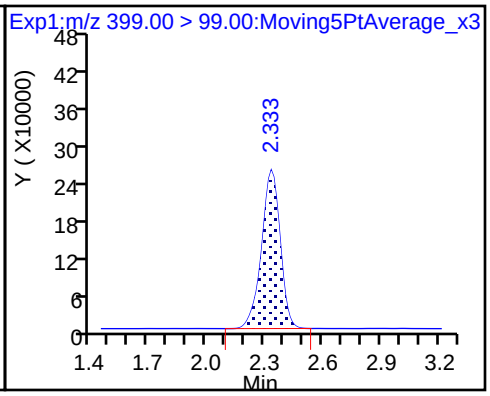
10 Perfluoroheptanoic acid



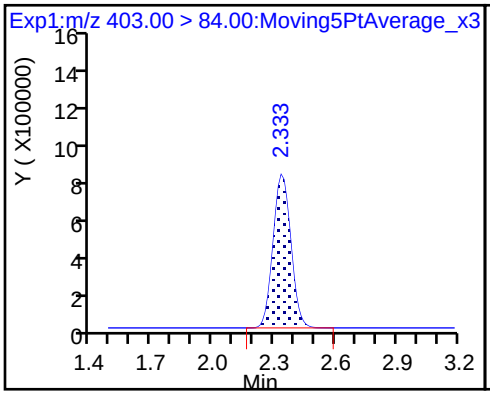
8 Perfluorohexanesulfonic acid



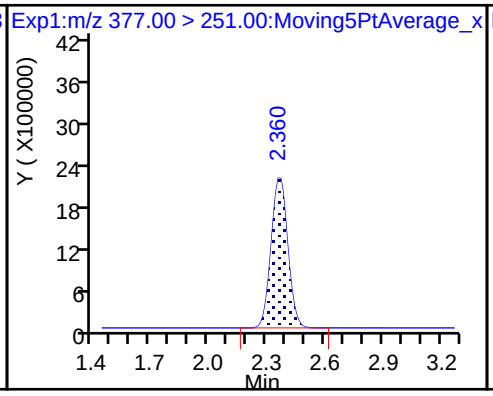
8 Perfluorohexanesulfonic acid



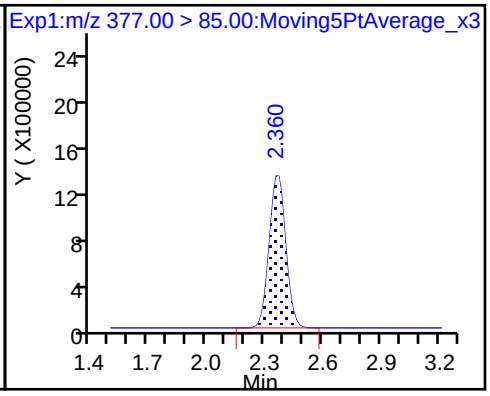
D 11 18O2 PFHxS



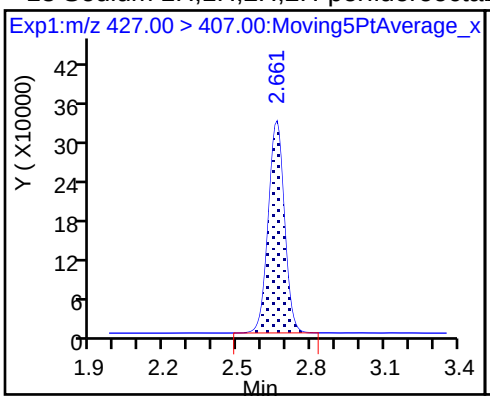
65 Adona



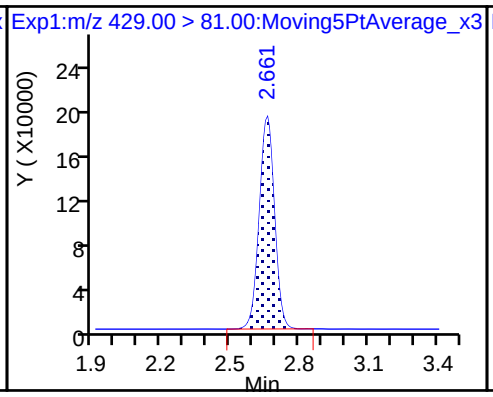
65 Adona



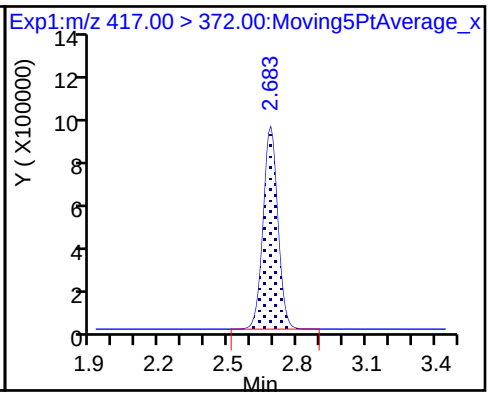
13 Sodium 1H,1H,2H,2H-perfluorooctane



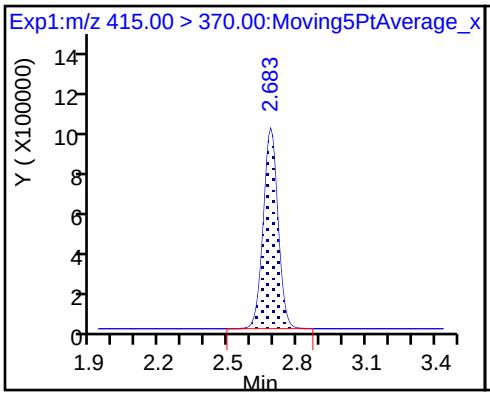
D 12 M2-6:2FTS



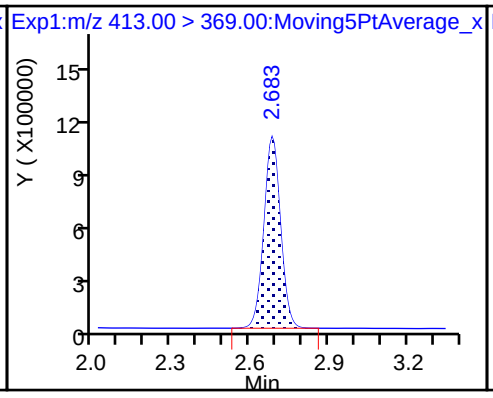
D 14 13C4 PFOA



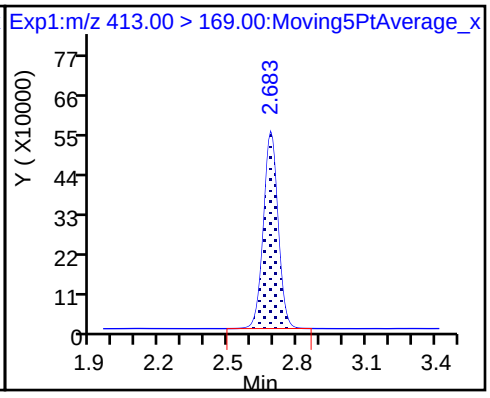
* 62 13C2-PFOA



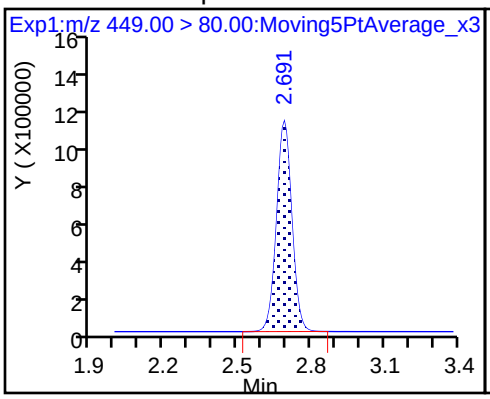
15 Perfluorooctanoic acid



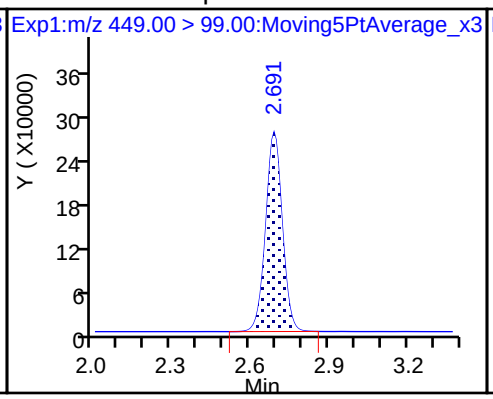
15 Perfluorooctanoic acid



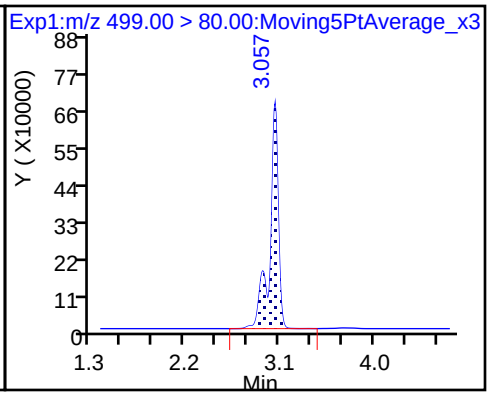
16 Perfluoroheptanesulfonic acid



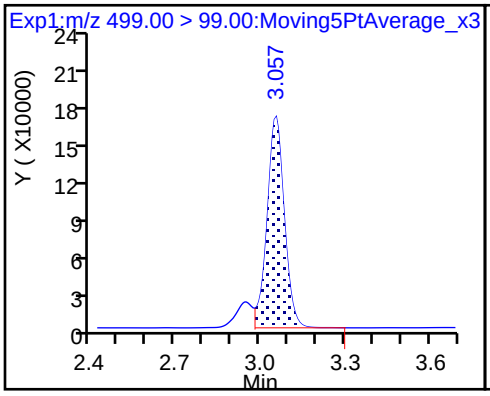
16 Perfluoroheptanesulfonic acid



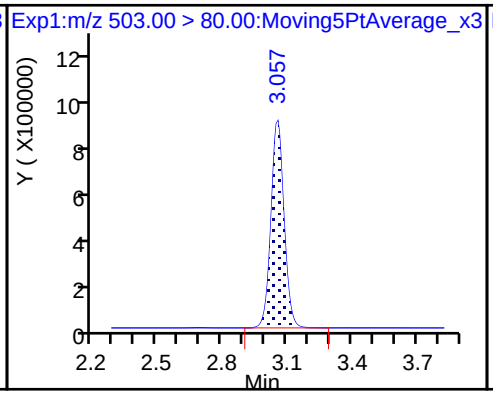
17 Perfluorooctane sulfonic acid



17 Perfluorooctane sulfonic acid



D 18 13C4 PFOS



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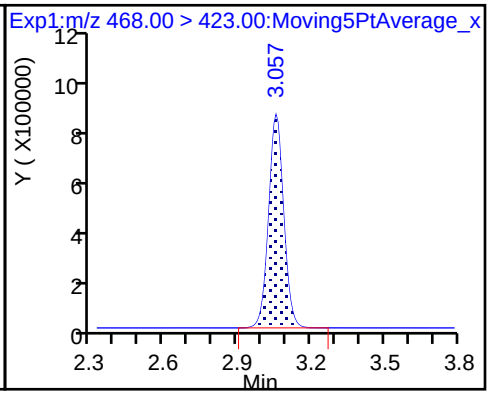
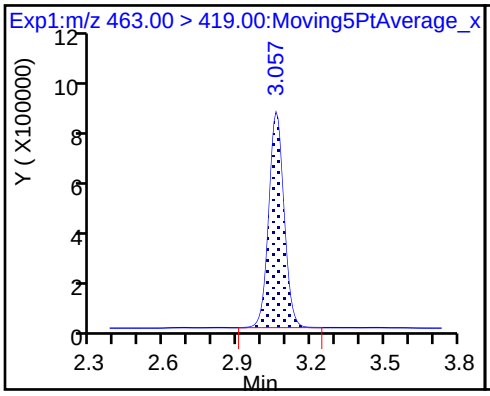
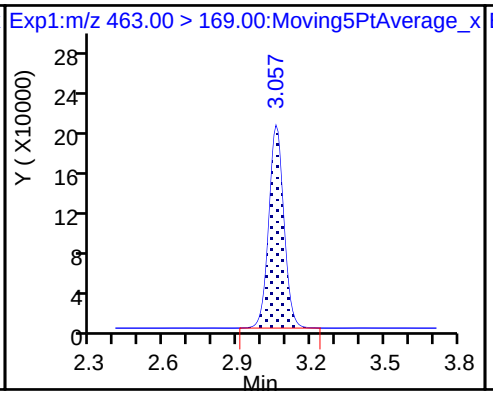


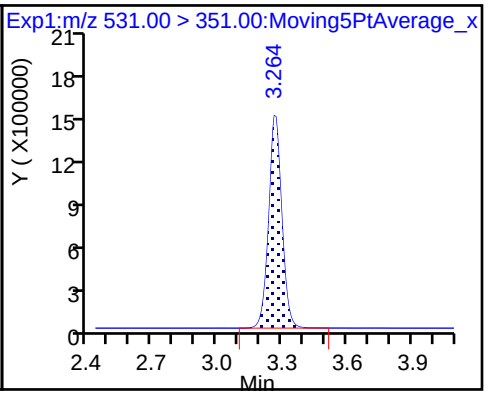
20 Perfluorononanoic acid



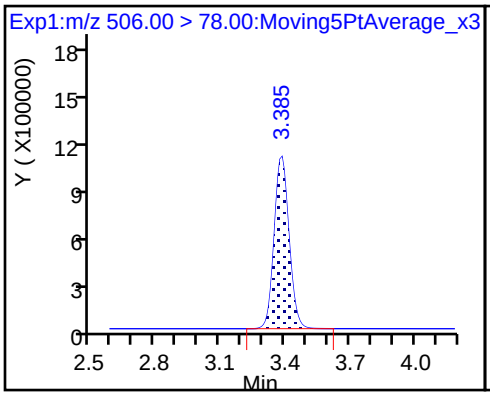
20 Perfluorononanoic acid



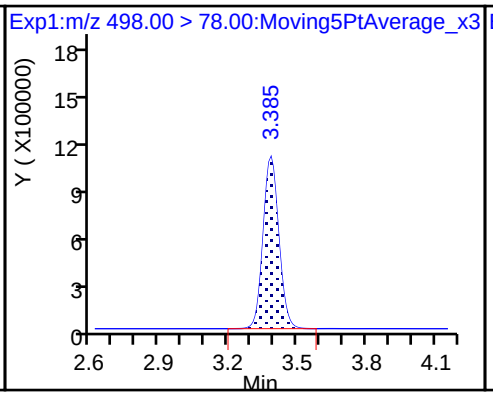
69 9-Chlorohexadecafluoro-3-oxanonane



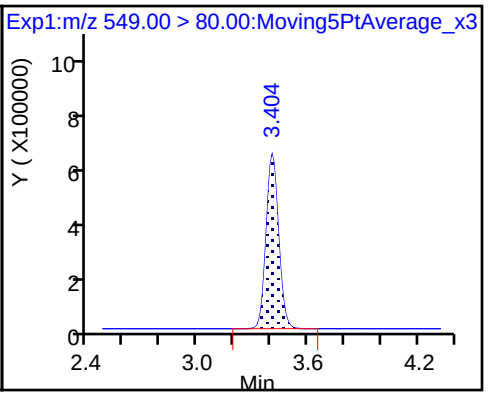
D 21 13C8 FOSA



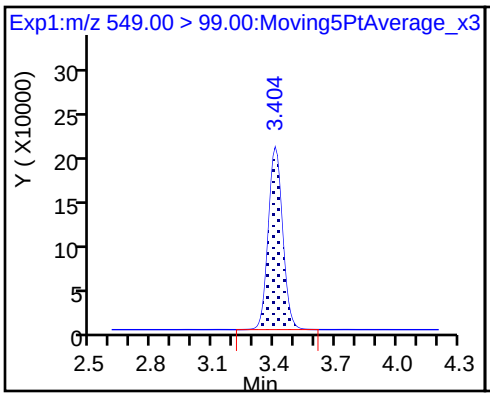
22 Perfluorooctane Sulfonamide



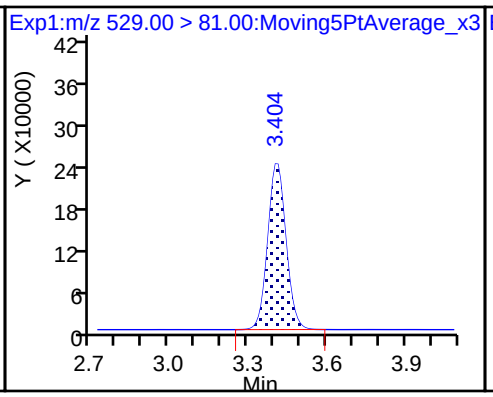
68 Perfluorononanesulfonic acid



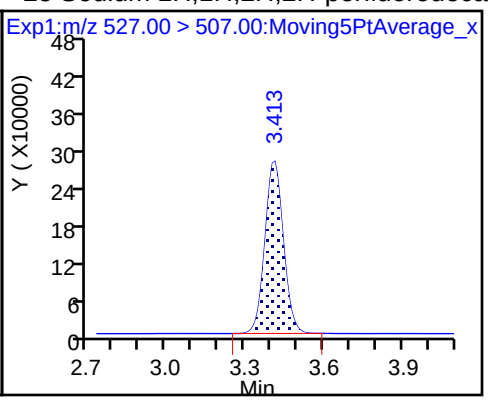
68 Perfluorononanesulfonic acid



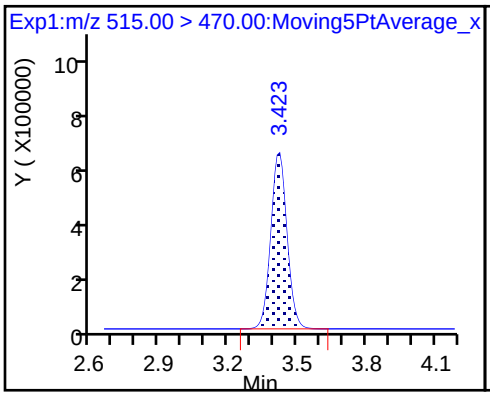
D 26 M2-8:2FTS



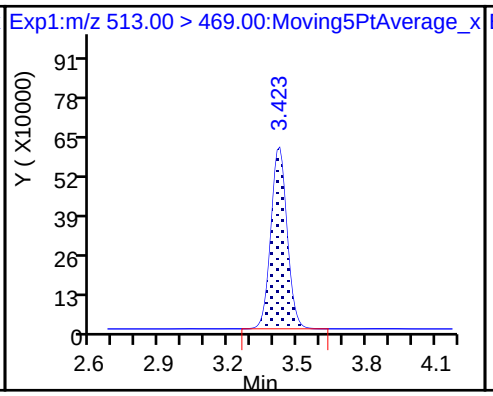
25 Sodium 1H,1H,2H,2H-perfluorodecane



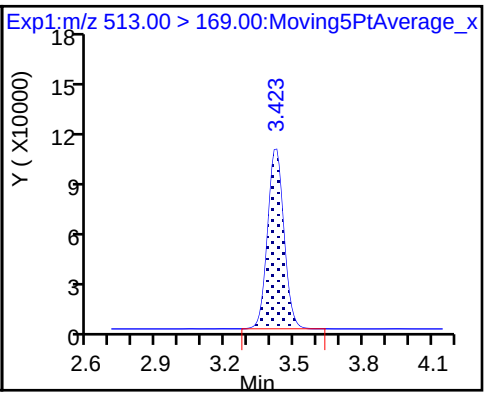
D 23 13C2 PFDA



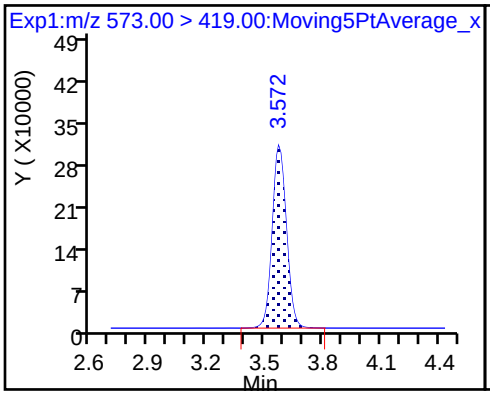
24 Perfluorodecanoic acid



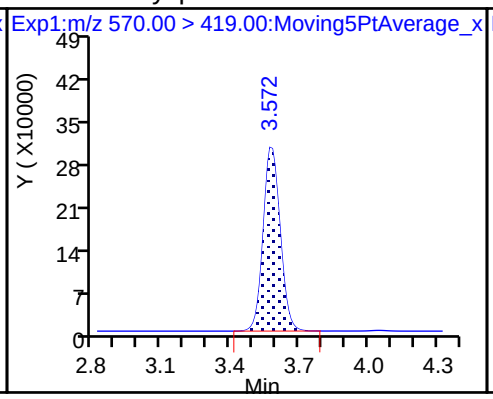
24 Perfluorodecanoic acid



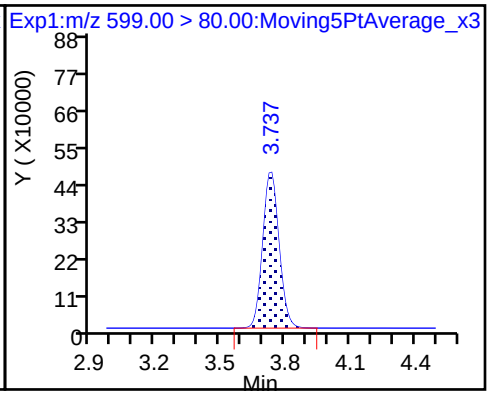
D 27 d3-NMeFOSAA



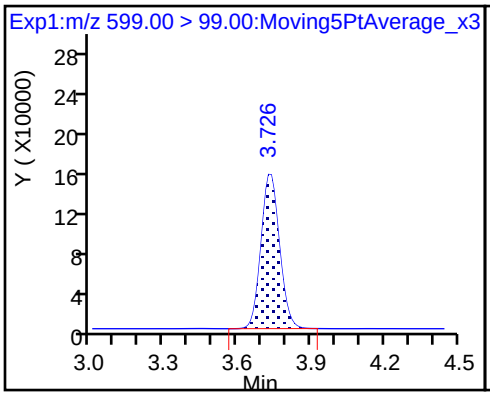
28 N-methyl perfluorooctane sulfonami



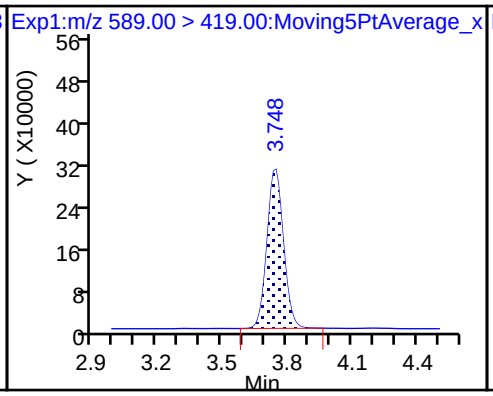
29 Perfluorodecane Sulfonic acid



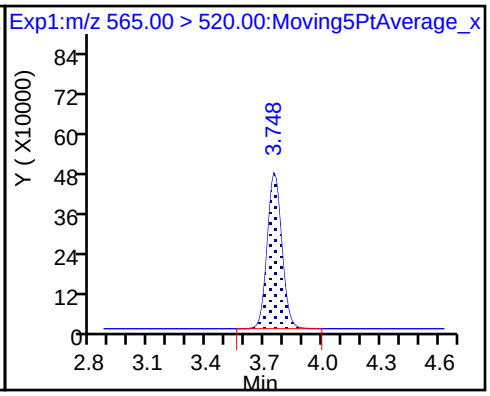
29 Perfluorodecane Sulfonic acid



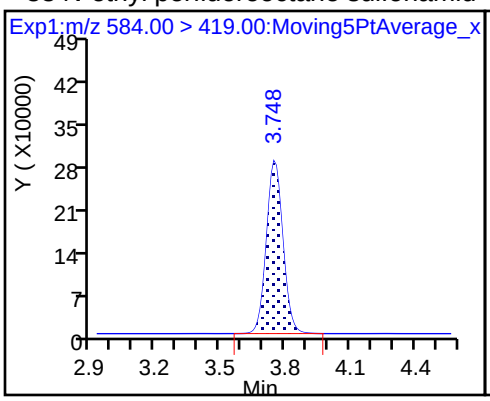
D 32 d5-NEtFOSAA



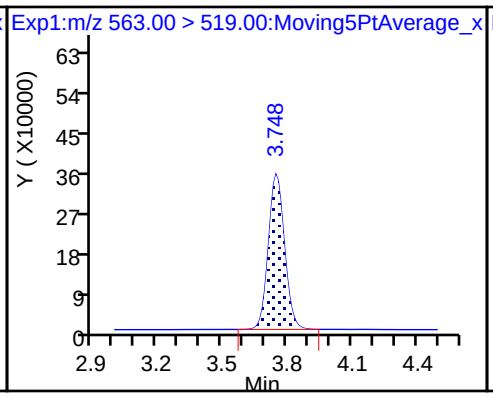
D 30 13C2 PFUnA



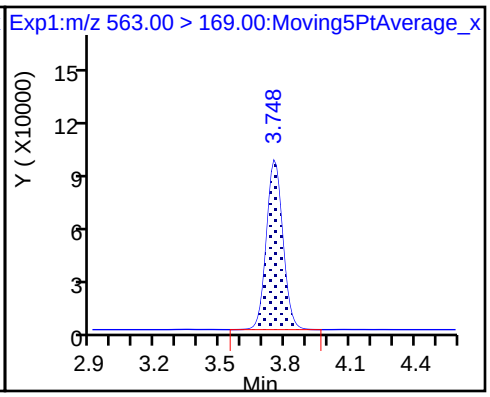
33 N-ethyl perfluorooctane sulfonamid



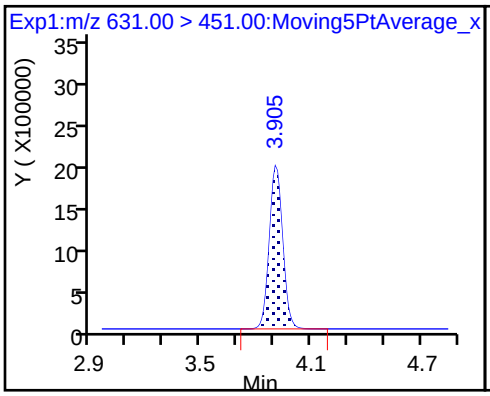
31 Perfluoroundecanoic acid



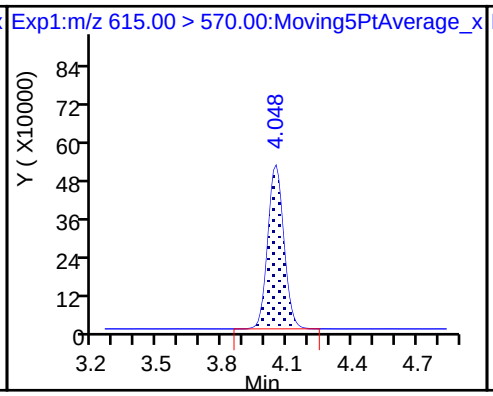
31 Perfluoroundecanoic acid



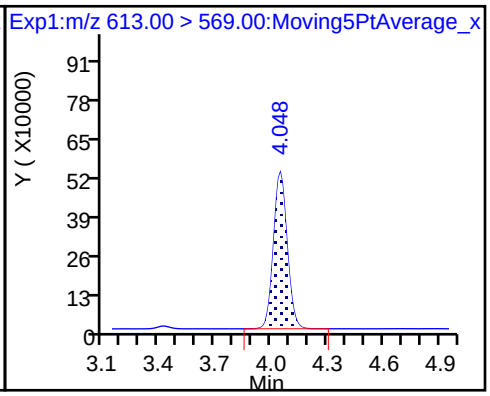
66 11-Chloroeicosafluoro-3-oxaundecan



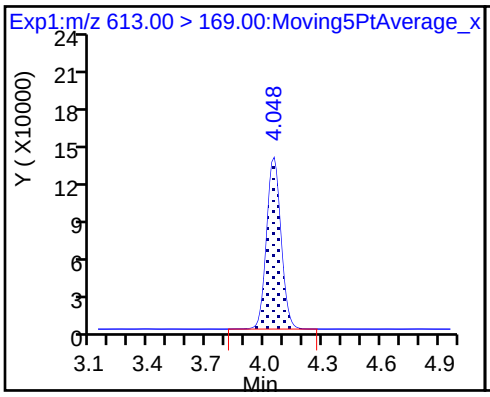
D 36 13C2 PFDoA



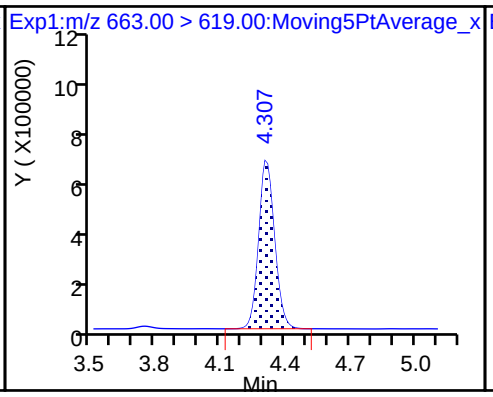
37 Perfluorododecanoic acid



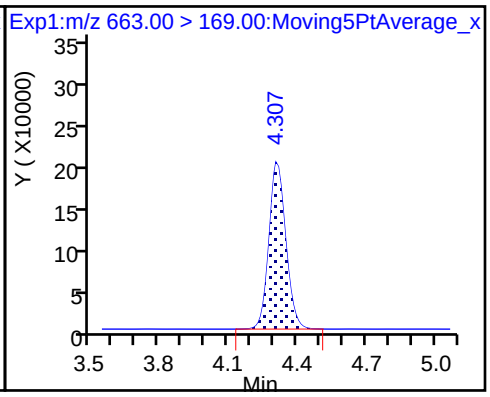
37 Perfluorododecanoic acid



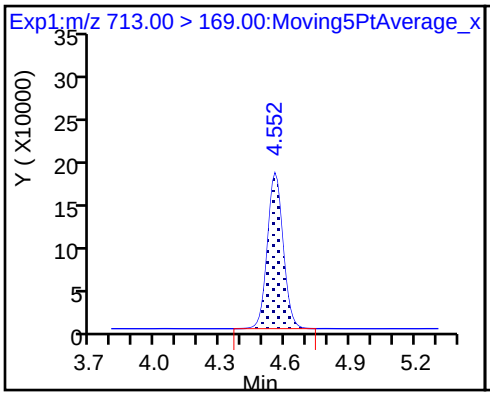
41 Perfluorotridecanoic acid



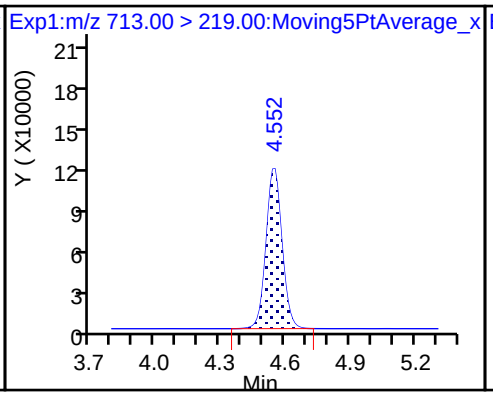
41 Perfluorotridecanoic acid



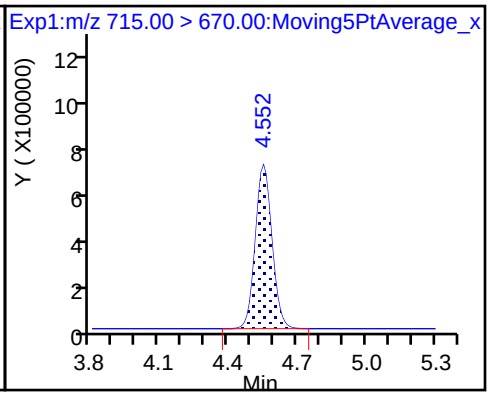
42 Perfluorotetradecanoic acid



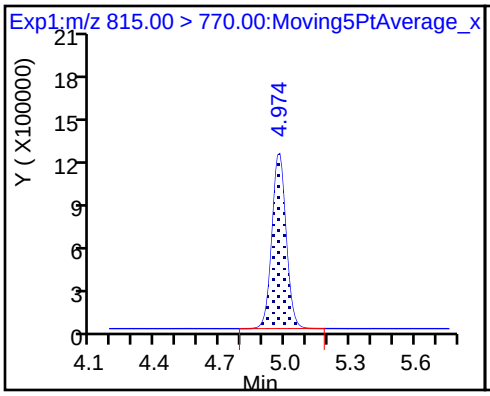
42 Perfluorotetradecanoic acid



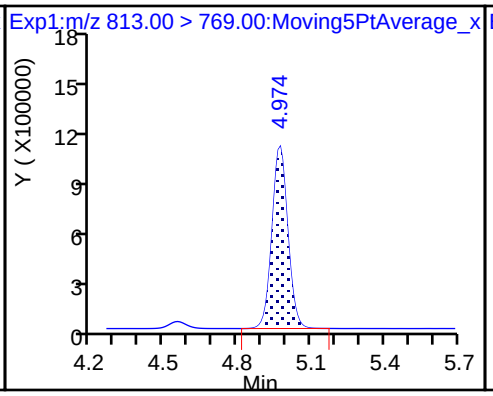
D 43 13C2-PFTeDA



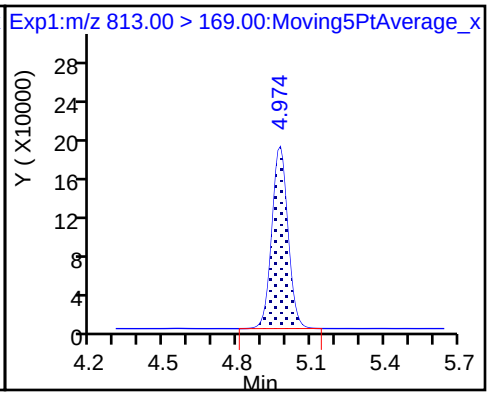
D 44 13C2-PFHxDA



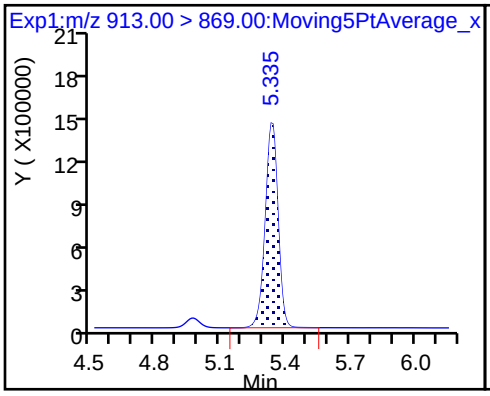
45 Perfluorohexadecanoic acid



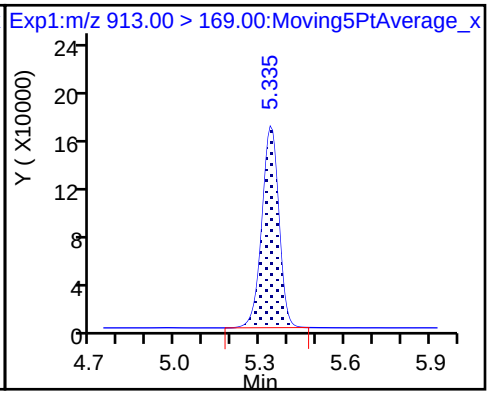
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-215658/2 Calibration Date: 03/30/2018 11:53

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZA_004.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.9396		0.0508	0.0500	1.7	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.145		0.0479	0.0500	-4.3	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	82.67		0.0463	0.0442	4.8	50.0
4:2 FTS	AveID	17.26	14.79		0.130	0.0467	-14.3	
Perfluorohexanoic acid (PFHxA)	AveID	1.023	1.022		0.0499	0.0500	-0.1	50.0
HFPO-DA (GenX)	AveID	3.401	2.991		0.0440	0.0500	-12.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.249		0.0575	0.0500	14.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.241		0.0506	0.0455	11.2	50.0
Adona	AveID	3.564	3.658		0.0513	0.0500	2.6	50.0
6:2FTS	AveID	1.868	1.759		0.0500	0.0474	-5.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.231		0.0519	0.0500	3.8	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.375		0.0491	0.0476	3.2	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	0.998		0.0405	0.0464	-12.7	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.023		0.0497	0.0500	-0.5	50.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.881		0.0469	0.0466	0.6	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	0.9873		0.0500	0.0500	-0.0	50.0
8:2FTS	AveID	1.349	1.193		0.0500	0.0479	-11.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	1.098		0.0555	0.0500	11.0	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.149		0.0780	0.0500	9.0	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6064		0.0421	0.0482	-12.6	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.7617		0.0480	0.0500	-16.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.9469		0.0590	0.0500	18.0	50.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.883		0.0468	0.0471	-0.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.118		0.0517	0.0500	3.4	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.382		0.0598	0.0500	19.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2497		0.0500	0.0500	-0.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.309		0.0477	0.0500	-4.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.8632		0.0435	0.0500	-13.1	50.0
13C4 PFBA	Ave	1.382	1.334		2.41	2.50	-3.5	50.0
13C5 PFPeA	Ave	0.8994	0.8926		2.48	2.50	-0.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-215658/2 Calibration Date: 03/30/2018 11:53

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZA_004.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3-PFBS	Ave	0.0206	0.0196		2.21	2.33	-5.0	50.0
M2-4:2FTS	Ave	0.1573	0.1354		2.01	2.34	-13.9	50.0
13C2 PFHxA	Ave	0.9916	0.9251		2.33	2.50	-6.7	50.0
13C3 HFPO-DA	Ave	0.0494	0.0543		2.75	2.50	10.0	50.0
13C4-PFHpA	Ave	0.9533	0.9662		2.53	2.50	1.4	50.0
18O2 PFHxS	Ave	1.189	1.177		2.34	2.37	-1.0	50.0
M2-6:2FTS	Ave	0.2203	0.1944		2.10	2.38	-11.8	50.0
13C4 PFOA	Ave	0.9372	0.9422		2.51	2.50	0.5	50.0
13C4 PFOS	Ave	0.8257	0.8106		2.35	2.39	-1.8	50.0
13C5 PFNA	Ave	0.7930	0.7892		2.49	2.50	-0.5	50.0
13C8 FOSA	Ave	1.166	1.020		2.19	2.50	-12.5	50.0
M2-8:2FTS	Ave	0.2562	0.2480		2.32	2.40	-3.2	50.0
13C2 PFDA	Ave	0.6698	0.6401		2.39	2.50	-4.4	50.0
d3-NMeFOSAA	Ave	0.3583	0.3625		2.53	2.50	1.2	50.0
13C2 PFUnA	Ave	0.5468	0.5583		2.55	2.50	2.1	50.0
d5-NEtFOSAA	Ave	0.3760	0.3968		2.64	2.50	5.5	50.0
13C2 PFDoA	Ave	0.6087	0.5904		2.43	2.50	-3.0	50.0
13C2-PFTeDA	Ave	0.7733	0.7521		2.43	2.50	-2.7	50.0
13C2-PFHxDA	Ave	1.194	1.278		2.68	2.50	7.0	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\2018.03.30LLBXZA_004.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 30-Mar-2018 11:53:02 ALS Bottle#: 24 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 02-Apr-2018 08:37:39 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK015

First Level Reviewer: westendorfc Date: 02-Apr-2018 08:37:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.439	-0.009	1.000	6635857	2.41		96.5	53097	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.441	-0.006	1.004	124694	0.0508		102	32.2	
D 3 13C5-PFPeA										
267.90 > 223.00	1.692	1.698	-0.006	0.555	4441675	2.48		99.2	96334	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.692	1.701	-0.009	1.000	101757	0.0479		95.7	55.8	
D 47 13C3-PFBS										
301.90 > 83.00	1.729	1.734	-0.005	1.000	90571	2.21		95.0	618	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.729	1.737	-0.008	1.000	142350	0.0463		105	69.9	
298.90 > 99.00	1.738	1.737	0.001	1.005	60229		2.36(1.25-3.74)		69.9	
D 60 M2-4:2FTS										
329.00 > 81.00	1.948	1.956	-0.008	1.000	629180	2.01		86.1	6240	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.948	1.959	-0.011	1.000	26900	0.0400		85.7	1621	
D 7 13C2 PFHxA										
315.00 > 270.00	1.980	1.988	-0.008	1.000	4603264	2.33		93.3	163112	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.980	1.991	-0.011	1.000	94071	0.0499		99.9	111	
313.00 > 119.00	1.980	1.991	-0.011	1.000	8083		11.64(5.03-15.10)		102	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.003	2.014	-0.011	1.000	135972	0.0490		105	3433	
349.00 > 99.00	2.003	2.014	-0.011	1.000	45517		2.99(1.36-4.07)		1005	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.082	2.082	0.0	1.000	16177	0.0440		87.9	85.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.082	2.090	-0.008	1.000	270402	2.75		110	8051	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	120105	0.0575		115	87.1	
363.00 > 169.00	2.319	2.319	0.0	1.000	46246		2.60(1.13-3.40)		101	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.329	-0.010	1.000	4808261	2.53		101	111370	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	132343	0.0506		111	556	
399.00 > 99.00	2.332	2.332	0.0	1.000	42990		3.08(1.50-4.49)		258	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.342	-0.010	1.000	5540874	2.34		99.0	69126	
65 Adona										
377.00 > 251.00	2.358	2.358	0.0	1.000	295104	0.0513		103	5461	
377.00 > 85.00	2.358	2.358	0.0	1.000	164224		1.80(0.84-2.53)		3417	
D 12 M2-6:2FTS										
429.00 > 81.00	2.652	2.658	-0.006	1.000	919059	2.10		88.2	16480	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.652	2.659	-0.007	1.000	32271	0.0447		94.2	382	
D 14 13C4 PFOA										
417.00 > 372.00	2.674	2.681	-0.007	1.000	4688599	2.51		101	73934	
* 62 13C2-PFOA										
415.00 > 370.00	2.674	2.682	-0.008		4976247	2.50			92174	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.674	2.682	-0.008	1.000	115432	0.0519		104	44.8	
413.00 > 169.00	2.674	2.682	-0.008	1.000	62764		1.84(0.84-2.52)		230	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.682	2.689	-0.007	1.000	105615	0.0491		103	2394	
449.00 > 99.00	2.682	2.689	-0.007	1.000	27102		3.90(1.94-5.82)		861	
20 Perfluorononanoic acid										
463.00 > 419.00	3.049	3.053	-0.004	1.000	80383	0.0497		99.5	117	
463.00 > 169.00	3.049	3.053	-0.004	1.000	17735		4.53(1.90-5.69)		353	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.042	3.053	-0.011	1.000	74721	0.0405		87.3	147	
499.00 > 99.00	3.042	3.053	-0.011	1.000	19470		3.84(2.31-6.93)		147	
D 19 13C5 PFNA										
468.00 > 423.00	3.049	3.058	-0.009	1.000	3927123	2.49		99.5	74142	
D 18 13C4 PFOS										
503.00 > 80.00	3.042	3.058	-0.016	1.000	3856393	2.35		98.2	49289	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.256	3.260	-0.004	1.000	141408	0.0469		101	2899	
D 21 13C8 FOSA										
506.00 > 78.00	3.384	3.388	-0.004	1.000	5077914	2.19		87.5	44487	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.384	3.389	-0.005	1.000	100263	0.0500		100.0	2284	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.393	3.399	-0.006	1.000	55631	0.0430		89.6	1867	
549.00 > 99.00	3.393	3.399	-0.006	1.000	18459		3.01(1.33-3.97)		911	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.393	3.407	-0.014	1.000	1182352	2.32		96.8	25980	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.402	3.408	-0.006	1.003	28213	0.0424		88.5	697	
D 23 13C2 PFDA										
515.00 > 470.00	3.402	3.416	-0.014	1.000	3185134	2.39		95.6	49016	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.411	3.417	-0.006	1.003	69944	0.0555		111	303	
513.00 > 169.00	3.402	3.417	-0.015	1.000	15038		4.65(2.36-7.09)		595	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.561	3.574	-0.013	1.000	1803801	2.53		101	43200	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.570	3.575	-0.005	1.003	41434	0.0545		109	430	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.722	3.730	-0.008	1.000	47163	0.0421		87.4	1447	
599.00 > 99.00	3.722	3.730	-0.008	1.000	20066		2.35(1.39-4.16)		477	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.733	3.740	-0.007	1.000	1974622	2.64		106	11651	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.733	3.741	-0.008	1.000	52615	0.0590		118	211	
563.00 > 169.00	3.733	3.741	-0.008	1.000	11318		4.65(2.12-6.36)		365	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.733	3.741	-0.008	1.000	30082	0.0415		83.1	655	
D 30 13C2 PFUnA										
565.00 > 520.00	3.733	3.750	-0.017	1.000	2778324	2.55		102	52410	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.889	3.897	-0.008	1.000	219077	0.0468		99.3	5277	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.031	4.040	-0.009	1.000	65676	0.0517		103	59.0	
613.00 > 169.00	4.031	4.040	-0.009	1.000	17665		3.72(2.13-6.40)		372	
D 36 13C2 PFDoA										
615.00 > 570.00	4.031	4.050	-0.019	1.000	2937882	2.42		97.0	20044	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.292	4.299	-0.007	1.000	81231	0.0598		120	61.2	
663.00 > 169.00	4.292	4.299	-0.007	1.000	24503		3.32(1.25-3.76)		426	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.532	4.543	-0.011	1.000	3742429	2.43		97.3	21655	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.532	4.543	-0.011	1.000	18687	0.0500		100.0	370	
713.00 > 219.00	4.522	4.543	-0.021	0.998	15765		1.19(0.71-2.13)		451	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.948	4.958	-0.010	1.002	166483	0.0477		95.4	51.1	
813.00 > 169.00	4.940	4.958	-0.018	1.000	27230		6.11(2.86-8.58)		385	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.966	-0.026	1.000	6359019	2.68		107	17710	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.299	5.314	-0.015	1.000	109784	0.0435		86.9	31.4	
913.00 > 169.00	5.299	5.314	-0.015	1.000	12928		8.49(3.83-11.48)		197	

Reagents:

LCPFC_LL2_00004 Amount Added: 1.00 Units: mL

Report Date: 02-Apr-2018 08:37:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\2018.03.30LLBXZA_004.d

Injection Date: 30-Mar-2018 11:53:02 Instrument ID: A8_N

Lims ID: CCVL

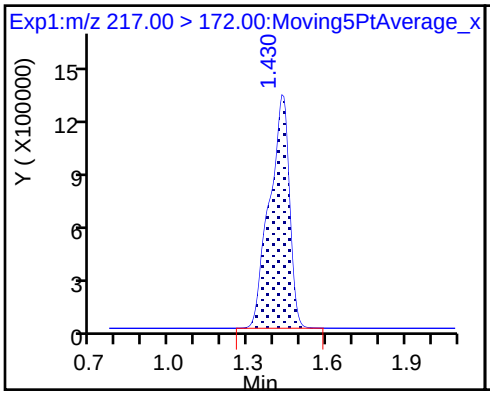
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 24 Worklist Smp#: 2

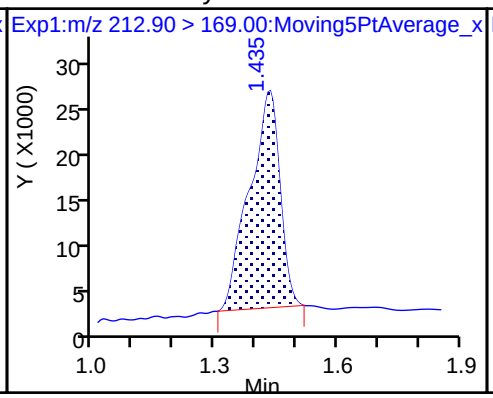
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

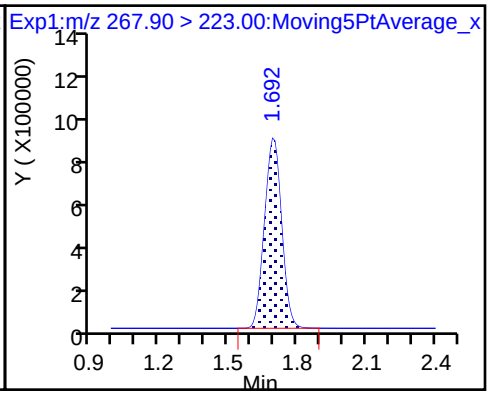
D 1 13C4 PFBA



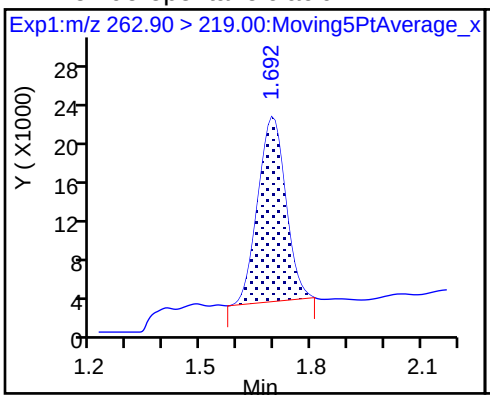
2 Perfluorobutyric acid



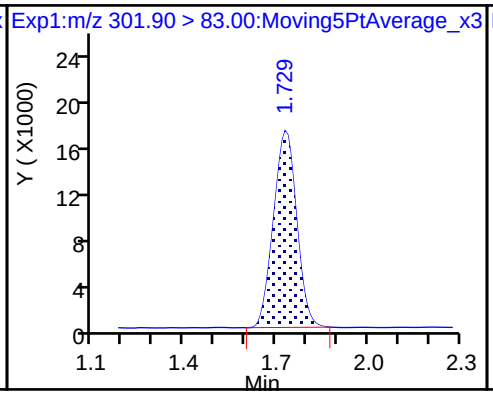
D 3 13C5-PFPeA



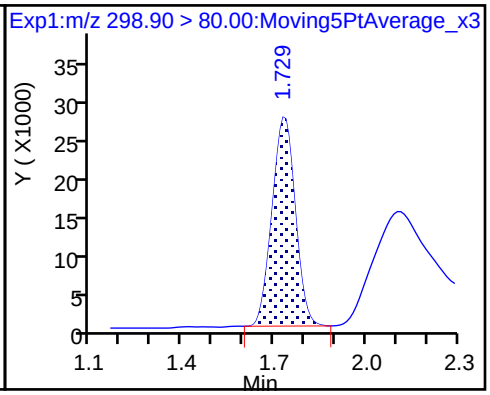
4 Perfluoropentanoic acid



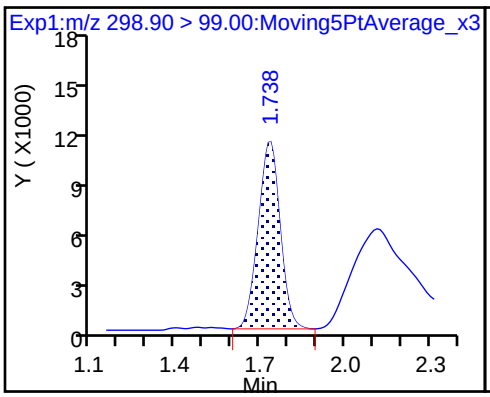
D 47 13C3-PFBS



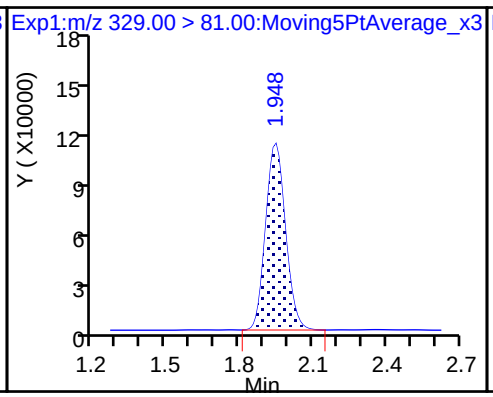
5 Perfluorobutanesulfonic acid



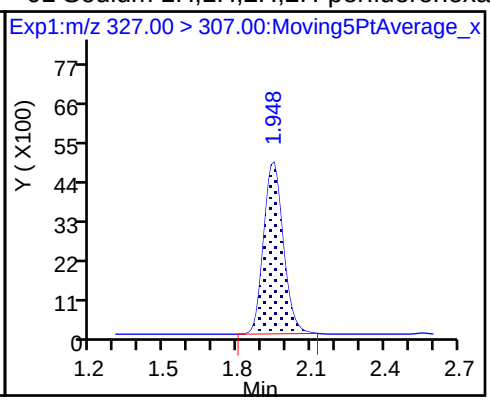
5 Perfluorobutanesulfonic acid



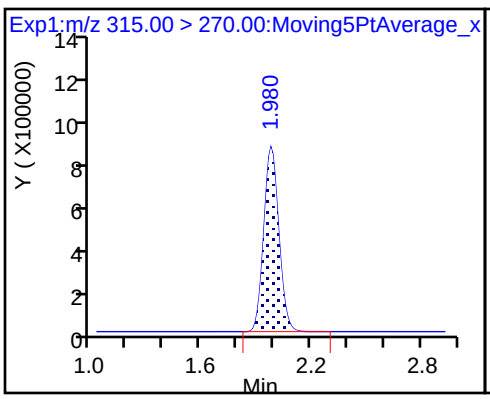
D 60 M2-4:2FTS



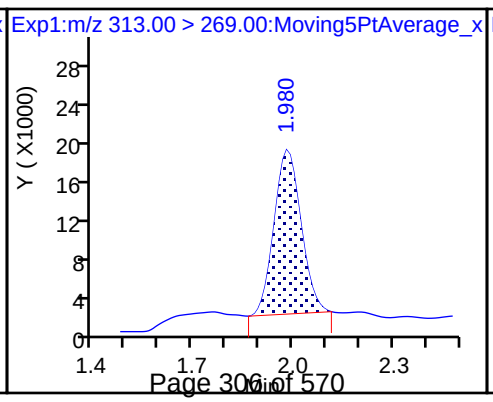
61 Sodium 1H,1H,2H,2H-perfluorohexane



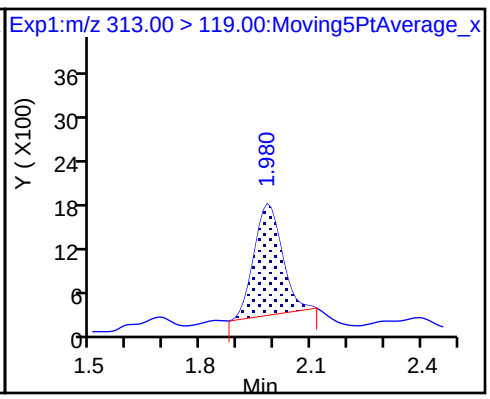
D 7 13C2 PFHxA



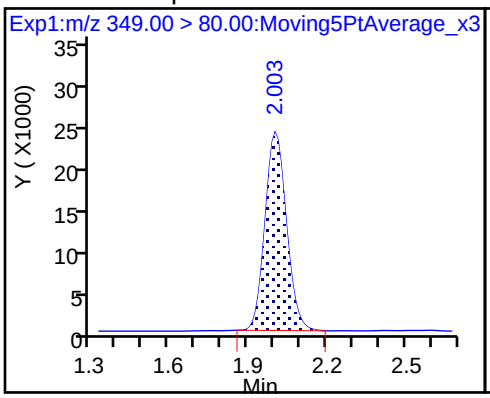
6 Perfluorohexanoic acid



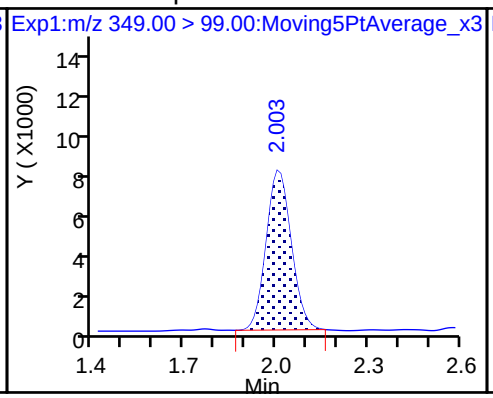
6 Perfluorohexanoic acid



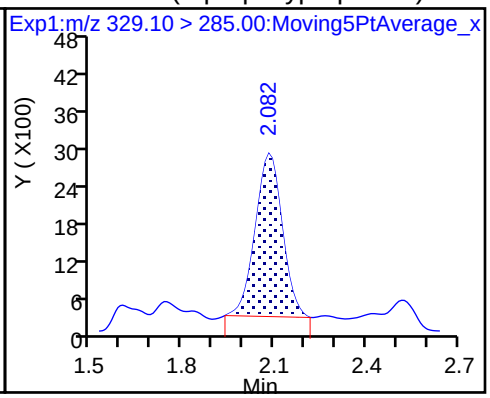
70 Perfluoropentanesulfonic acid



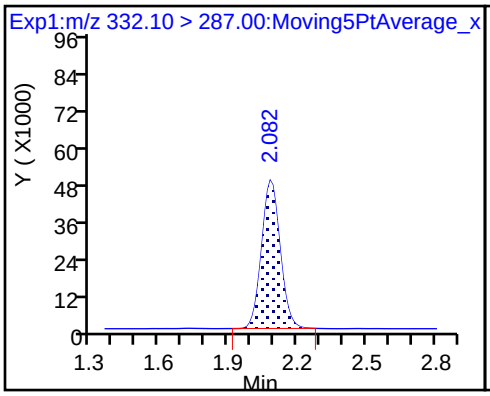
70 Perfluoropentanesulfonic acid



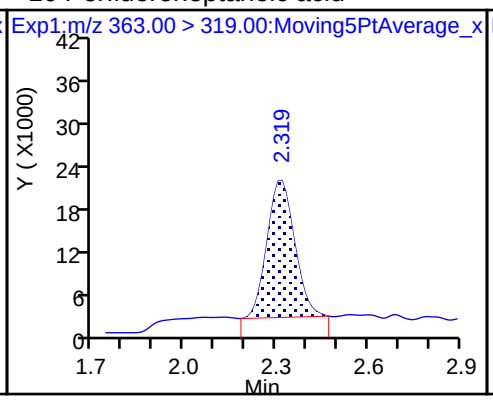
67 Perfluoro(2-propoxypropanoic) acid



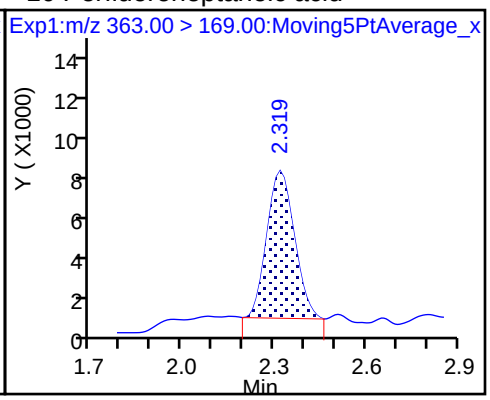
D 64 13C3 HFPO-DA



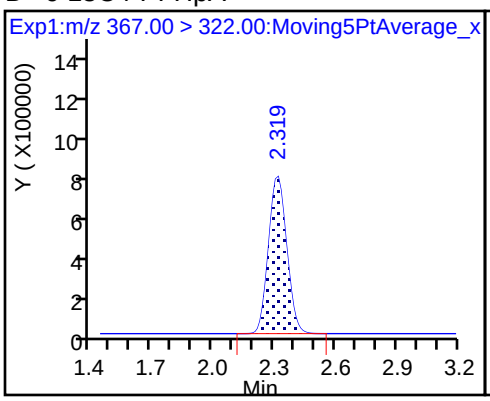
10 Perfluoroheptanoic acid



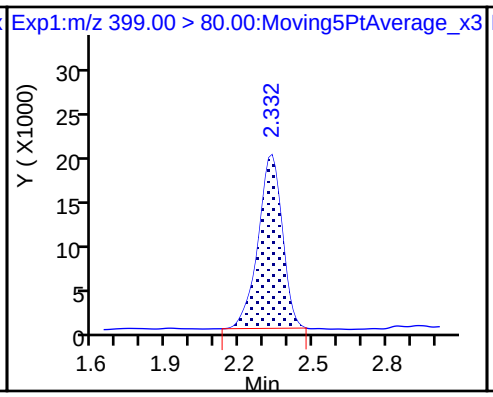
10 Perfluoroheptanoic acid



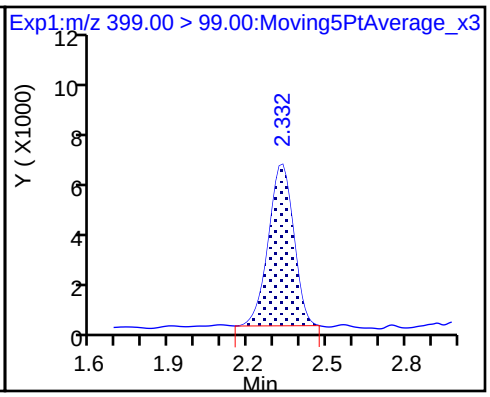
D 9 13C4-PFHpA



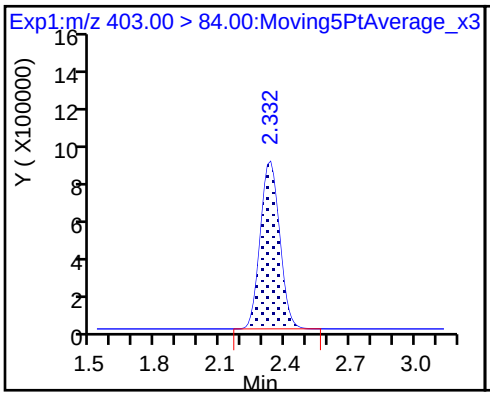
8 Perfluorohexanesulfonic acid



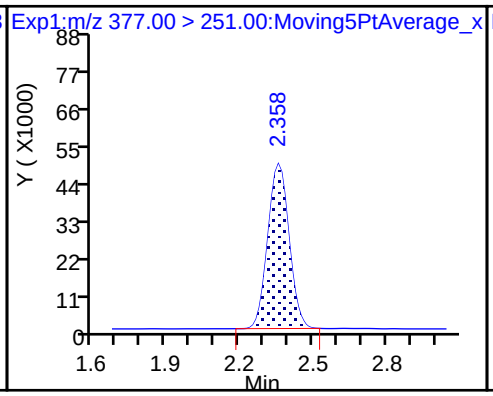
8 Perfluorohexanesulfonic acid



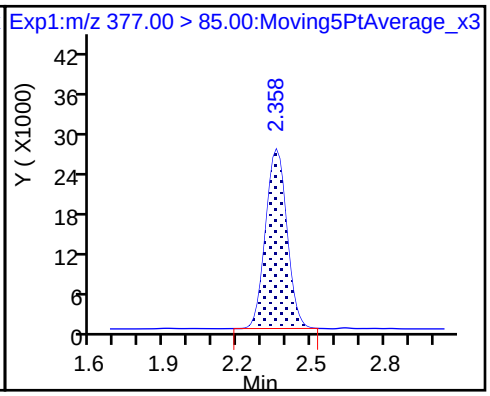
D 11 18O2 PFHxS



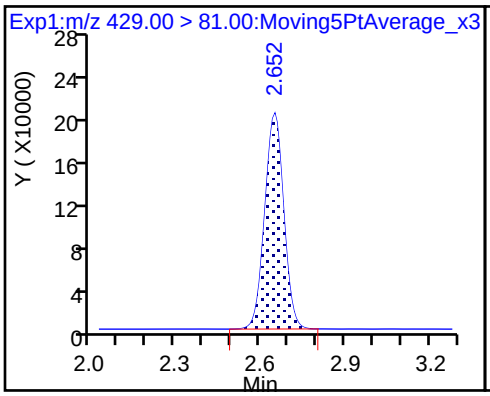
65 Adona



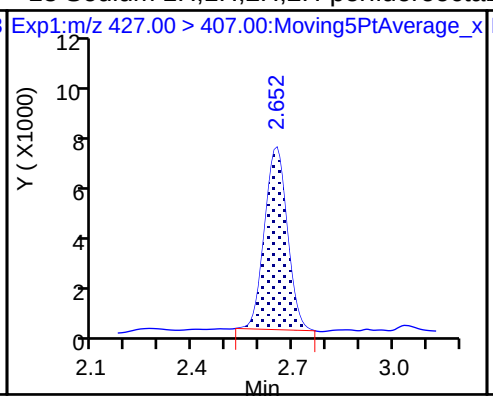
65 Adona



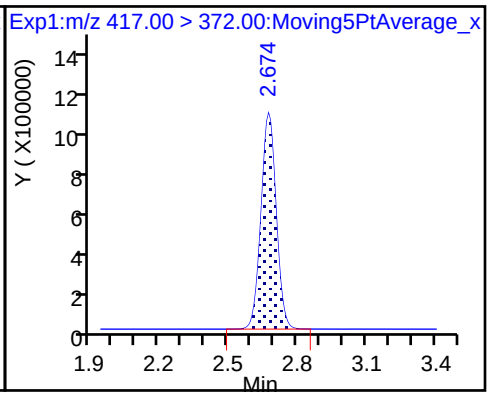
D 12 M2-6:2FTS



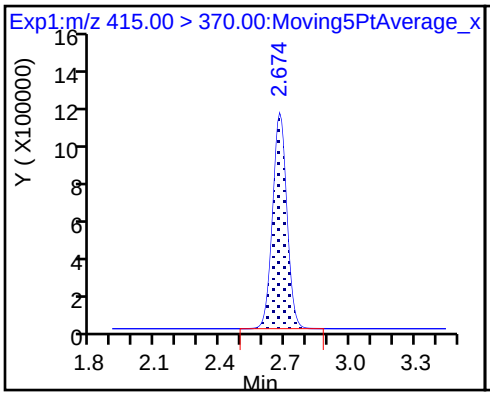
13 Sodium 1H,1H,2H,2H-perfluorooctane



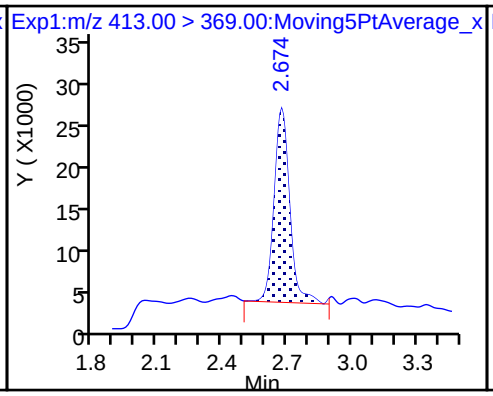
D 14 13C4 PFOA



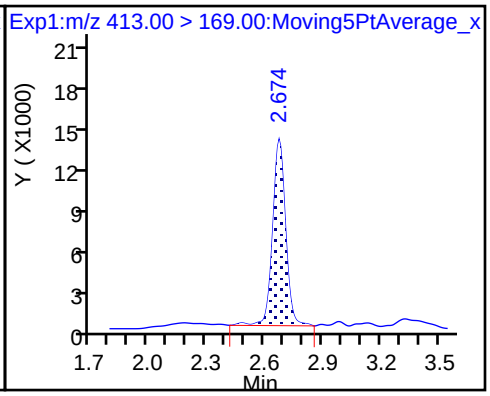
* 62 13C2-PFOA



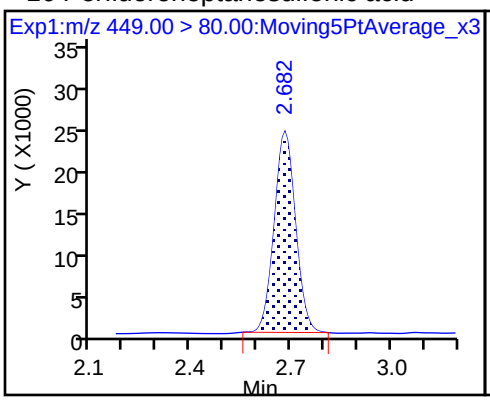
15 Perfluorooctanoic acid



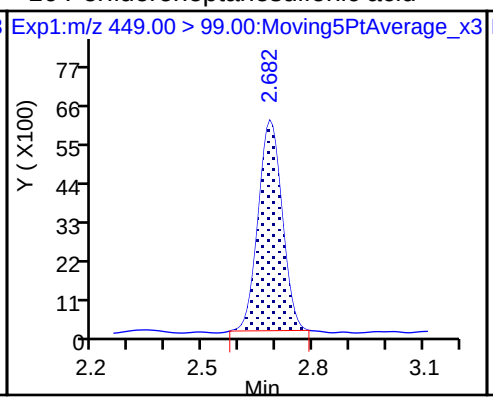
15 Perfluorooctanoic acid



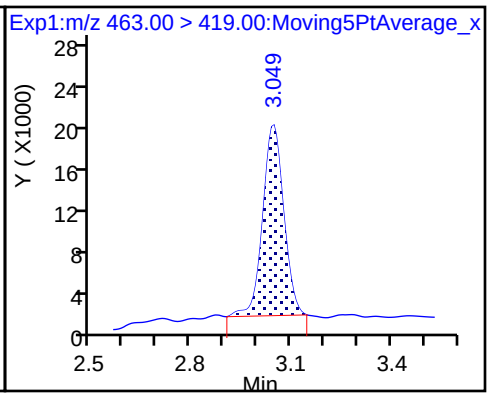
16 Perfluoroheptanesulfonic acid



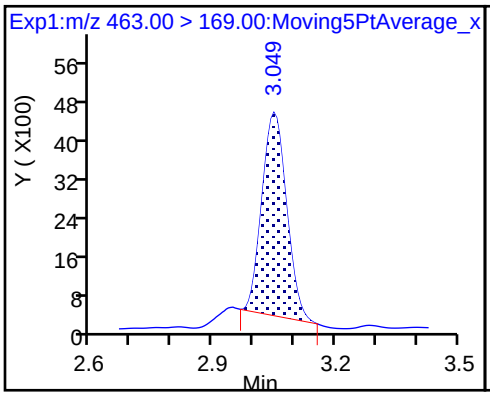
16 Perfluoroheptanesulfonic acid



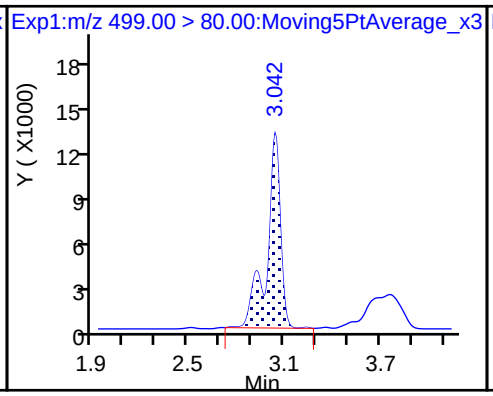
20 Perfluorononanoic acid



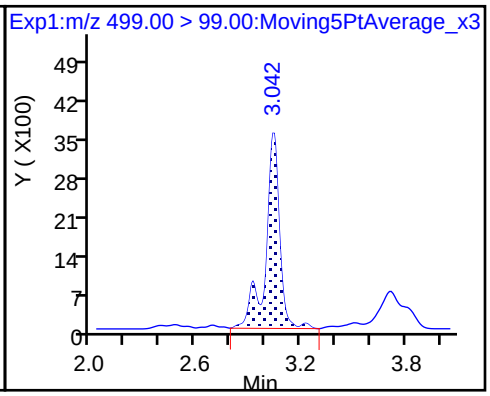
20 Perfluorononanoic acid



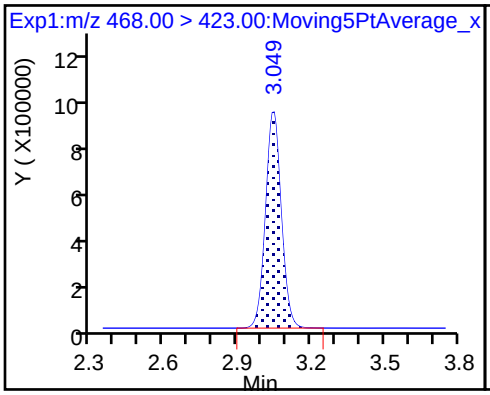
17 Perfluorooctane sulfonic acid



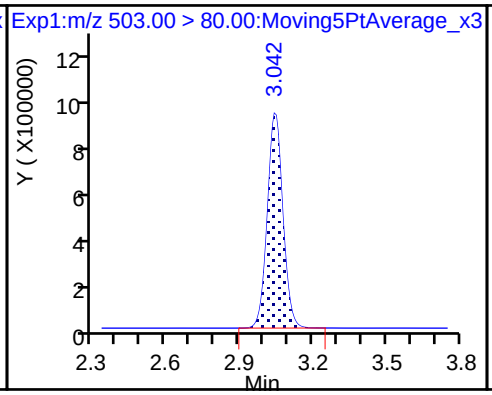
17 Perfluorooctane sulfonic acid



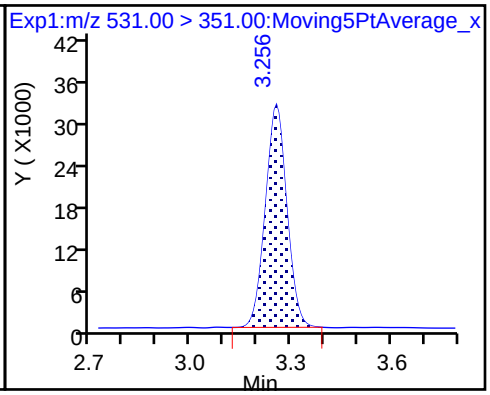
D 19 13C5 PFNA



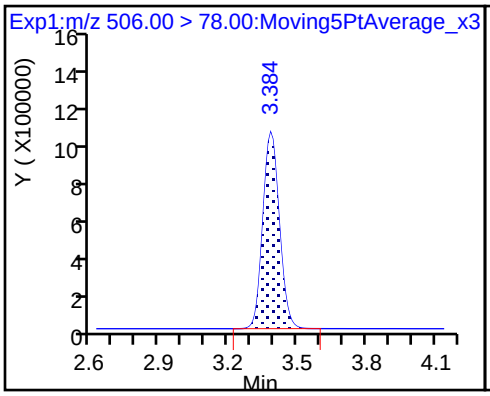
D 18 13C4 PFOS



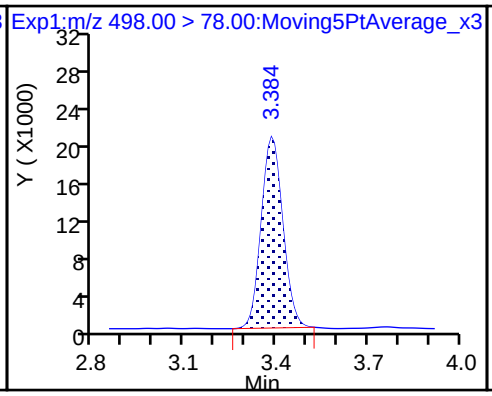
69 9-Chlorohexadecafluoro-3-oxanonane



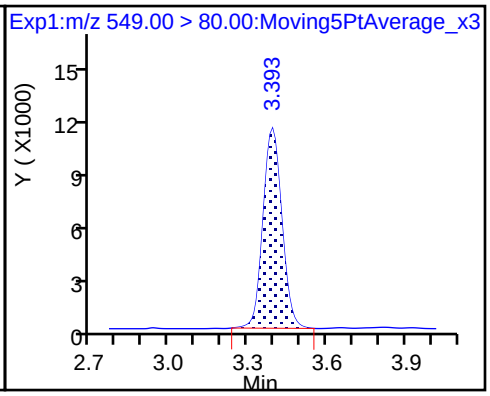
D 21 13C8 FOSA



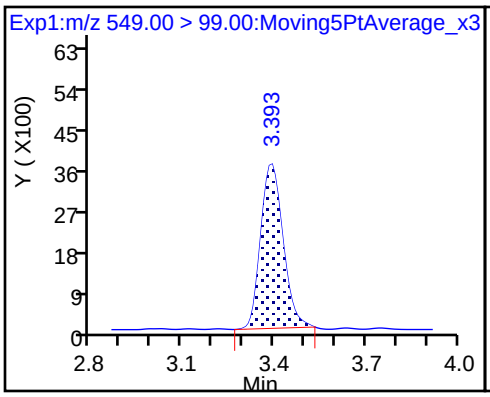
22 Perfluorooctane Sulfonamide



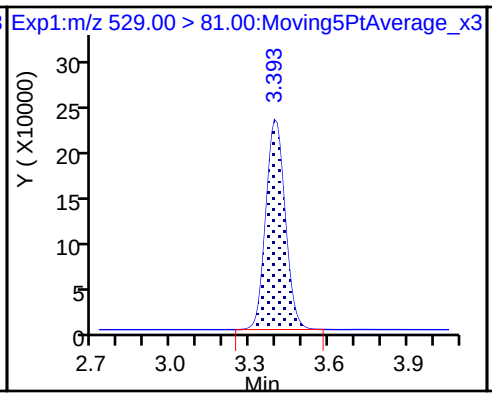
68 Perfluorononanesulfonic acid



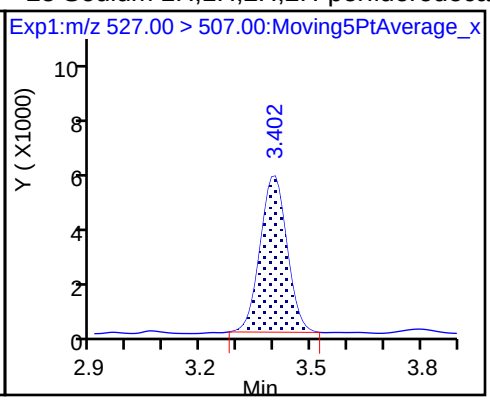
68 Perfluorononanesulfonic acid



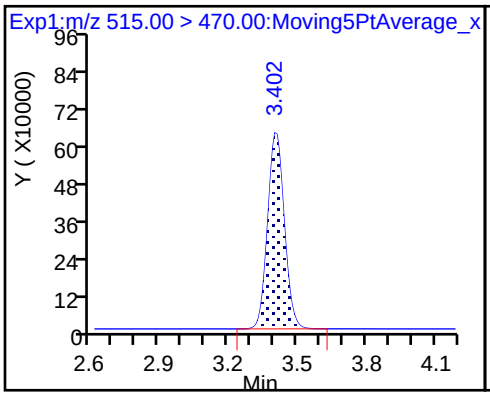
D 26 M2-8:2FTS



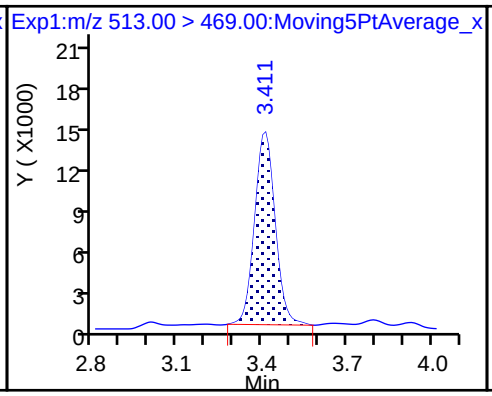
25 Sodium 1H,1H,2H,2H-perfluorodecane



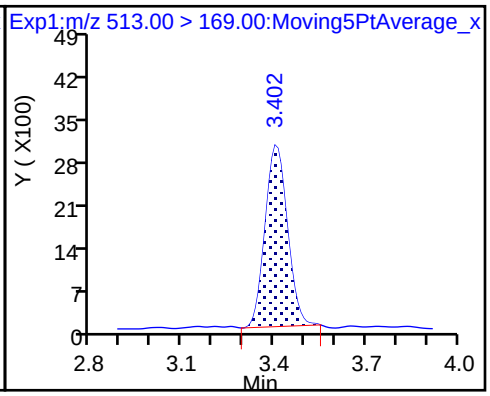
D 23 13C2 PFDA



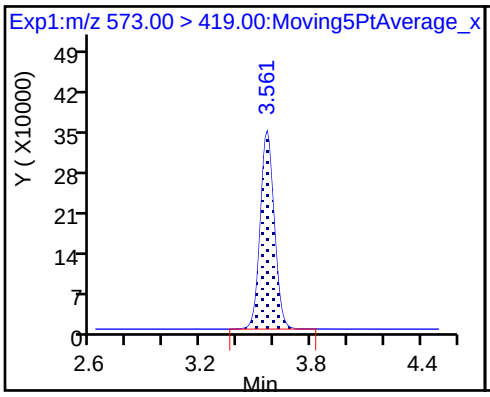
24 Perfluorodecanoic acid



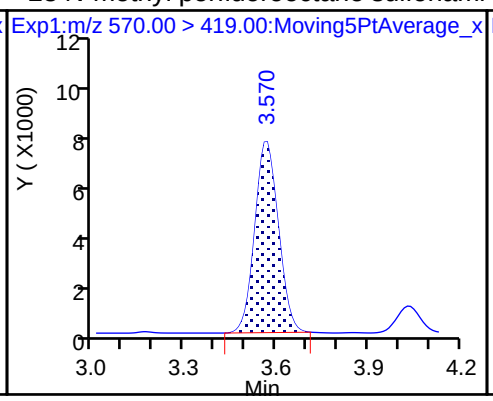
24 Perfluorodecanoic acid



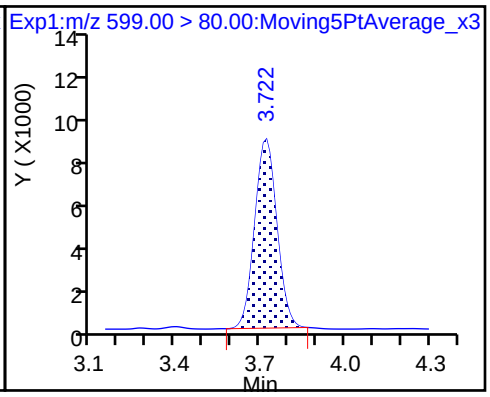
D 27 d3-NMeFOSAA



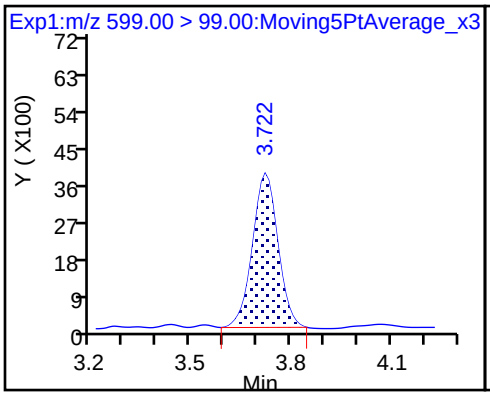
28 N-methyl perfluorooctane sulfonami



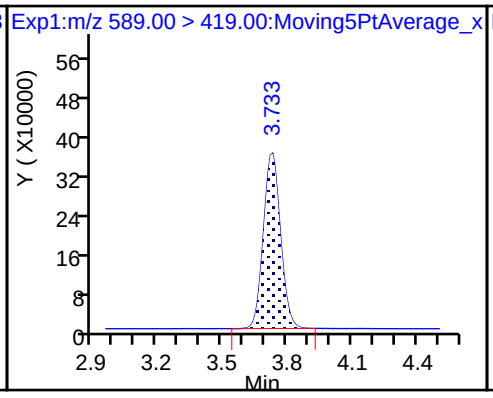
29 Perfluorodecane Sulfonic acid



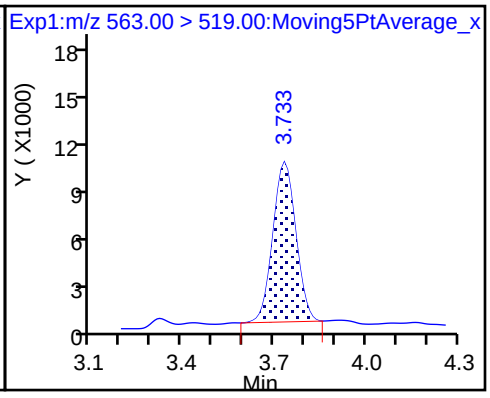
29 Perfluorodecane Sulfonic acid



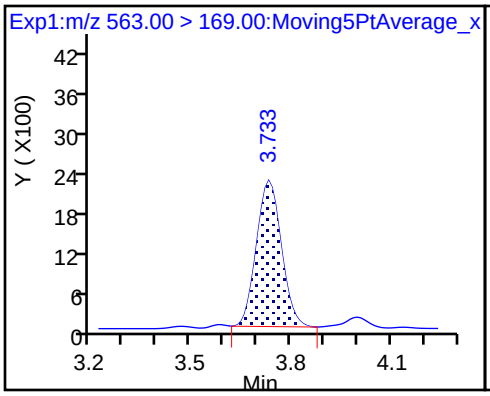
D 32 d5-NEtFOSAA



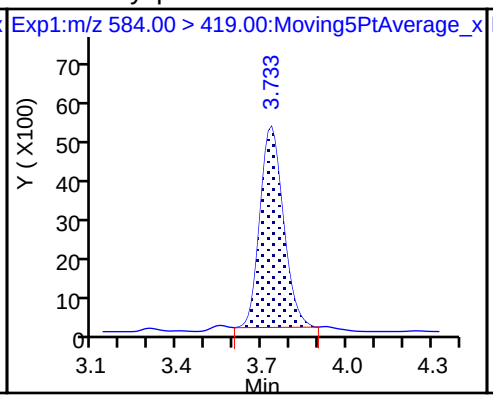
31 Perfluoroundecanoic acid



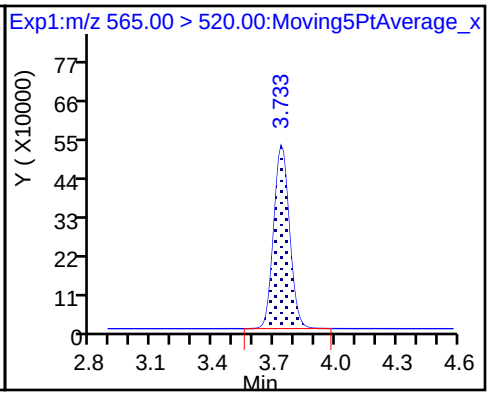
31 Perfluoroundecanoic acid



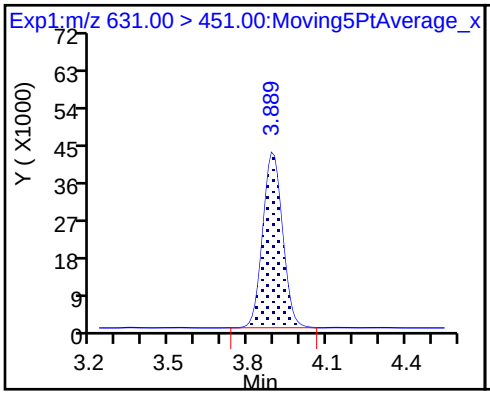
33 N-ethyl perfluorooctane sulfonamid



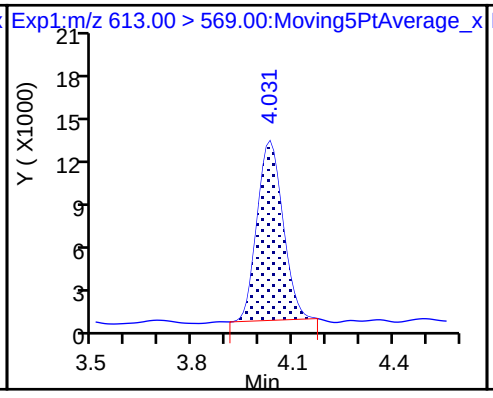
D 30 13C2 PFUnA



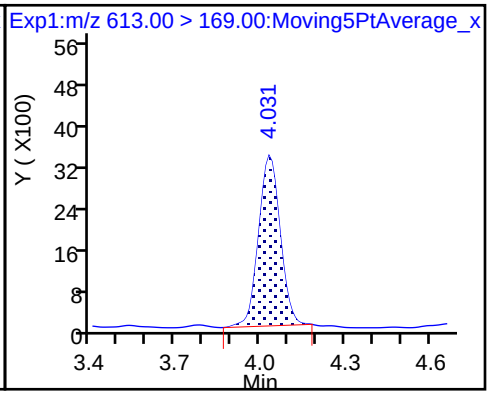
66 11-Chloroeicosafluoro-3-oxaundecan



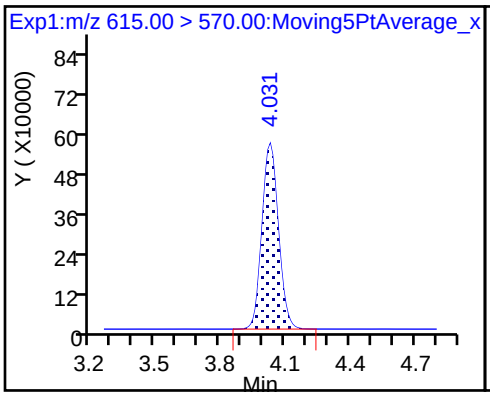
37 Perfluorododecanoic acid



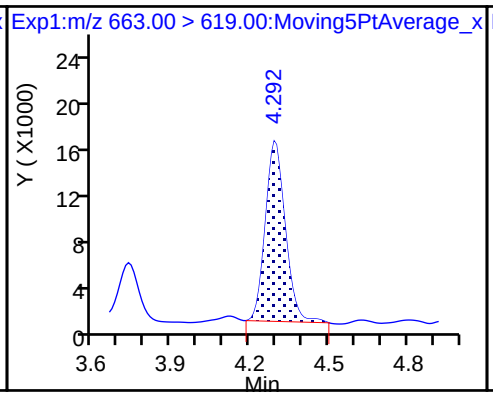
37 Perfluorododecanoic acid



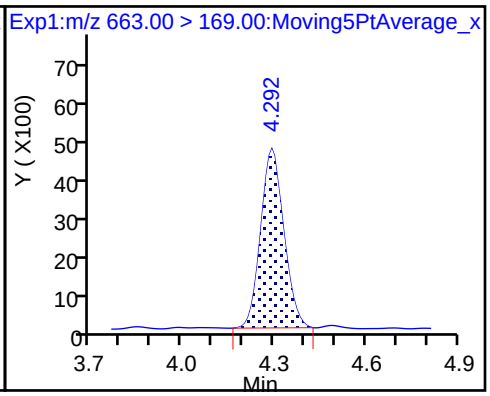
D 36 13C2 PFDoA



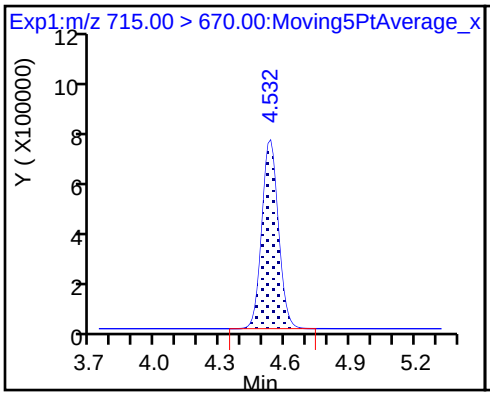
41 Perfluorotridecanoic acid



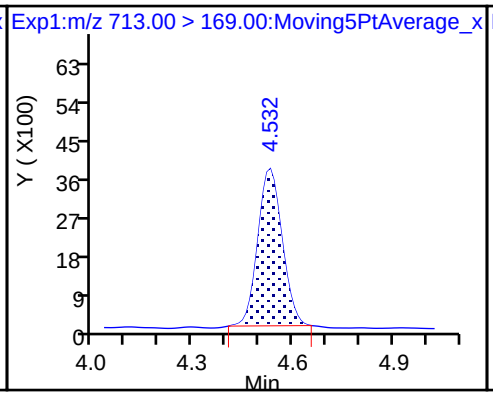
41 Perfluorotridecanoic acid



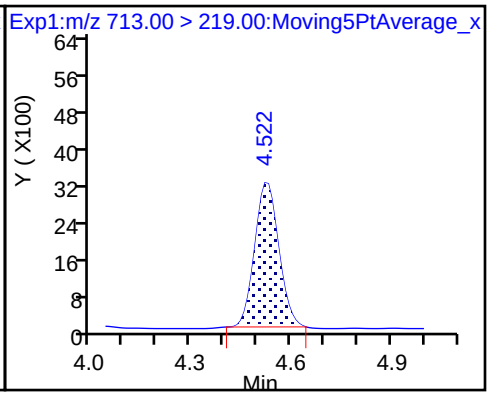
D 43 13C2-PFTeDA



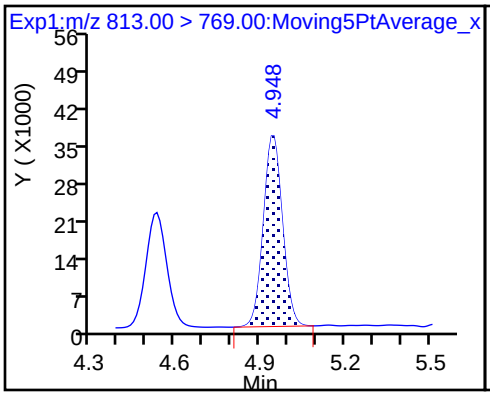
42 Perfluorotetradecanoic acid



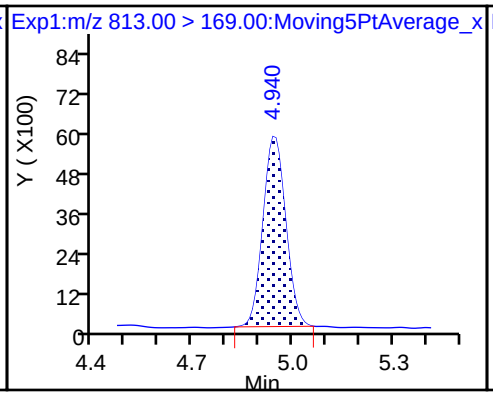
42 Perfluorotetradecanoic acid



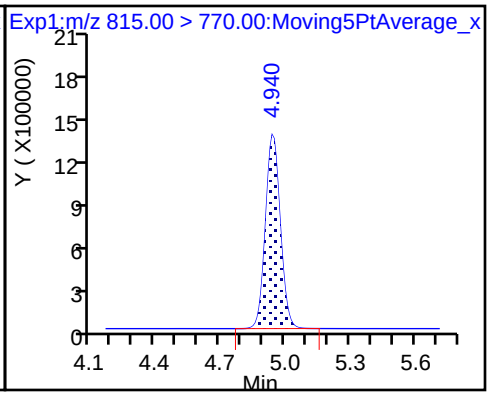
45 Perfluorohexadecanoic acid



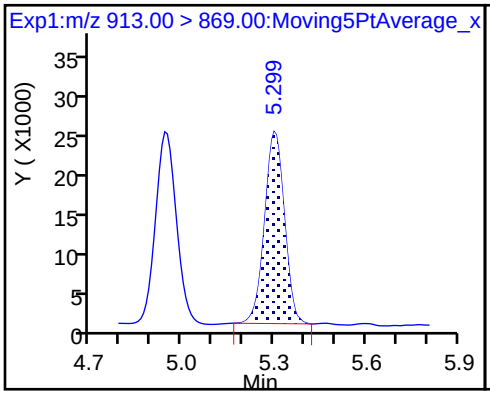
45 Perfluorohexadecanoic acid



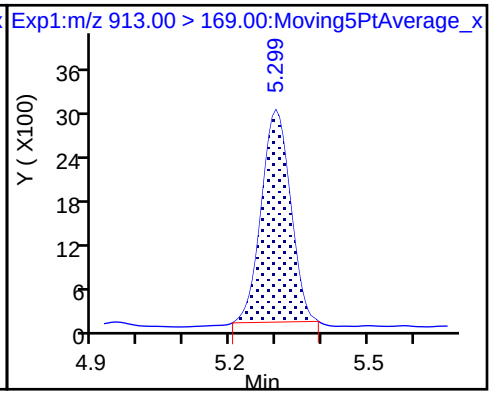
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215658/3 Calibration Date: 03/30/2018 12:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZA_032.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.8907		0.964	1.00	-3.6	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.135		0.949	1.00	-5.1	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	74.33		0.833	0.884	-5.8	50.0
4:2 FTS	AveID	17.26	15.54		0.841	0.934	-9.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	0.9864		0.964	1.00	-3.6	40.0
HFPO-DA (GenX)	AveID	3.401	3.463		1.02	1.00	1.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.016		0.935	1.00	-6.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.031		0.840	0.910	-7.7	40.0
Adona	AveID	3.564	3.688		1.04	1.00	3.5	50.0
6:2FTS	AveID	1.868	1.681		0.853	0.948	-10.0	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.138		0.960	1.00	-4.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.303		0.931	0.952	-2.3	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.039		1.01	1.00	1.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.071		0.870	0.928	-6.3	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.857		0.925	0.932	-0.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	0.9779		0.990	1.00	-1.0	40.0
8:2FTS	AveID	1.349	1.296		0.920	0.958	-3.9	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	0.9523		0.963	1.00	-3.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	0.9906		0.940	1.00	-6.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6700		0.931	0.964	-3.4	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9504		1.04	1.00	3.6	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.7590		0.946	1.00	-5.4	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.985		0.969	0.942	2.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.085		1.00	1.00	0.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.209		1.05	1.00	4.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2581		1.03	1.00	3.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8977		0.927	1.00	-7.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.8753		0.882	1.00	-11.8	50.0
13C4 PFBA	Ave	1.382	1.404		2.54	2.50	1.6	50.0
13C5 PFPeA	Ave	0.8994	0.8794		2.44	2.50	-2.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215658/3 Calibration Date: 03/30/2018 12:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZA_032.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3-PFBS	Ave	0.0206	0.0206		2.33	2.33	0.2	50.0
M2-4:2FTS	Ave	0.1573	0.1425		2.12	2.34	-9.4	50.0
13C2 PFHxA	Ave	0.9916	0.9808		2.47	2.50	-1.1	50.0
13C3 HFPO-DA	Ave	0.0494	0.0482		2.44	2.50	-2.4	50.0
13C4-PFHpA	Ave	0.9533	0.9577		2.51	2.50	0.5	50.0
18O2 PFHxS	Ave	1.189	1.224		2.44	2.37	2.9	50.0
M2-6:2FTS	Ave	0.2203	0.2060		2.22	2.38	-6.5	40.0
13C4 PFOA	Ave	0.9372	0.9228		2.46	2.50	-1.5	50.0
13C4 PFOS	Ave	0.8257	0.8401		2.43	2.39	1.7	50.0
13C5 PFNA	Ave	0.7930	0.8126		2.56	2.50	2.5	50.0
13C8 FOSA	Ave	1.166	1.075		2.30	2.50	-7.9	50.0
M2-8:2FTS	Ave	0.2562	0.2411		2.25	2.40	-5.9	40.0
13C2 PFDA	Ave	0.6698	0.6886		2.57	2.50	2.8	50.0
d3-NMeFOSAA	Ave	0.3583	0.3784		2.64	2.50	5.6	50.0
13C2 PFUnA	Ave	0.5468	0.5650		2.58	2.50	3.3	50.0
d5-NEtFOSAA	Ave	0.3760	0.4080		2.71	2.50	8.5	50.0
13C2 PFDoA	Ave	0.6087	0.6169		2.53	2.50	1.3	50.0
13C2-PFTeDA	Ave	0.7733	0.8028		2.60	2.50	3.8	50.0
13C2-PFHxDA	Ave	1.194	1.360		2.85	2.50	13.9	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\2018.03.30LLBXZA_032.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Mar-2018 12:00:50 ALS Bottle#: 13 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 02-Apr-2018 08:37:42 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK015

First Level Reviewer: westendorfc Date: 02-Apr-2018 08:37:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.441	1.439	0.002	1.000	6526314	2.54		102	55197	
2 Perfluorobutyric acid										
212.90 > 169.00	1.441	1.441	0.0	1.000	2325264	0.9638		96.4	617	
D 3 13C5-PFPeA										
267.90 > 223.00	1.701	1.698	0.003	0.557	4087757	2.44		97.8	88835	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.701	1.701	0.0	1.000	1856575	0.9487		94.9	1119	
D 47 13C3-PFBS										
301.90 > 83.00	1.737	1.734	0.003	1.000	89188	2.33		100	756	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.737	1.737	0.0	1.000	2520529	0.8329		94.2	1248	
298.90 > 99.00	1.737	1.737	0.0	1.000	1097030		2.30(1.25-3.74)		1274	
D 60 M2-4:2FTS										
329.00 > 81.00	1.948	1.956	-0.008	1.000	618616	2.11		90.6	8480	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.959	1.959	0.0	1.000	556916	0.8414		90.1	32936	
D 7 13C2 PFHxA										
315.00 > 270.00	1.991	1.988	0.003	1.000	4559188	2.47		98.9	114423	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.991	1.991	0.0	1.000	1798924	0.9640		96.4	2339	
313.00 > 119.00	1.991	1.991	0.0	1.000	165332		10.88(5.03-15.10)		2238	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.014	2.014	0.0	1.000	2565157	0.9392		100	44426	
349.00 > 99.00	2.002	2.014	-0.012	0.994	928321		2.76(1.36-4.07)		17811	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.082	2.082	0.0	1.000	310264	1.02		102	1991	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.082	2.090	-0.008	1.000	224005	2.44		97.6	5437	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	1809747	0.9354		93.5	1403	
363.00 > 169.00	2.319	2.319	0.0	1.000	709861		2.55(1.13-3.40)		1830	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.329	-0.010	1.000	4451628	2.51		100	72825	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	2134928	0.8402		92.3	8560	
399.00 > 99.00	2.332	2.332	0.0	1.000	690485		3.09(1.50-4.49)		4092	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.342	-0.010	1.000	5380353	2.43		103	67934	
65 Adona										
377.00 > 251.00	2.358	2.358	0.0	1.000	5760502	1.03		103	73663	
377.00 > 85.00	2.358	2.358	0.0	1.000	3312697		1.74(0.84-2.53)		61108	
D 12 M2-6:2FTS										
429.00 > 81.00	2.652	2.658	-0.006	1.000	909479	2.22		93.5	24595	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.659	2.659	0.0	1.003	610126	0.8531		90.0	5086	
D 14 13C4 PFOA										
417.00 > 372.00	2.682	2.681	0.001	1.000	4289166	2.46		98.5	65645	
* 62 13C2-PFOA										
415.00 > 370.00	2.682	2.682	0.0		4648235	2.50			77129	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.682	2.682	0.0	1.000	1952789	0.9599		96.0	819	
413.00 > 169.00	2.682	2.682	0.0	1.000	1029867		1.90(0.84-2.52)		3962	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.689	2.689	0.0	1.000	1937001	0.9305		97.7	27790	
449.00 > 99.00	2.689	2.689	0.0	1.000	530175		3.65(1.94-5.82)		11461	
20 Perfluorononanoic acid										
463.00 > 419.00	3.053	3.053	0.0	1.000	1569840	1.01		101	2482	
463.00 > 169.00	3.053	3.053	0.0	1.000	364810		4.30(1.90-5.69)		8250	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.053	3.053	0.0	1.000	1551869	0.8695		93.7	3094	
499.00 > 99.00	3.053	3.053	0.0	1.000	342846		4.53(2.31-6.93)		2596	
D 19 13C5 PFNA										
468.00 > 423.00	3.053	3.058	-0.005	1.000	3777098	2.56		102	76724	
D 18 13C4 PFOS										
503.00 > 80.00	3.053	3.058	-0.005	1.000	3733120	2.43		102	38566	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.260	3.260	0.0	1.000	2702881	0.9254		99.3	35871	
D 21 13C8 FOSA										
506.00 > 78.00	3.389	3.388	0.001	1.000	4995792	2.30		92.1	36717	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.389	3.389	0.0	1.000	1954117	0.99		99.0	38749	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.399	3.399	0.0	1.000	1154774	0.9221		96.1	21316	
549.00 > 99.00	3.399	3.399	0.0	1.000	444067		2.60(1.33-3.97)		15028	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.408	3.407	0.001	1.000	1073789	2.25		94.1	23691	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.408	3.408	0.0	1.000	556535	0.9203		96.1	27357	
D 23 13C2 PFDA										
515.00 > 470.00	3.417	3.416	0.001	1.000	3200906	2.57		103	37324	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.417	3.417	0.0	1.000	1219252	0.9626		96.3	6227	
513.00 > 169.00	3.417	3.417	0.0	1.000	225341		5.41(2.36-7.09)		11128	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.566	3.574	-0.008	1.000	1759079	2.64		106	30321	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.575	3.575	0.0	1.003	697012	0.9397		94.0	5529	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.730	3.730	0.0	1.000	1008881	0.9310		96.6	21030	
599.00 > 99.00	3.730	3.730	0.0	1.000	348987		2.89(1.39-4.16)		8219	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.741	3.740	0.001	1.000	1896602	2.71		109	12701	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.741	3.741	0.0	1.000	797284	0.9459		94.6	3789	
563.00 > 169.00	3.741	3.741	0.0	1.000	214620		3.71(2.12-6.36)		4959	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.741	3.741	0.0	1.000	721021	1.04		104	19115	
D 30 13C2 PFUnA										
565.00 > 520.00	3.741	3.750	-0.009	1.000	2626201	2.58		103	48894	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.897	3.897	0.0	1.000	4391658	0.9687		103	60244	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.040	4.040	0.0	1.000	1244912	1.00		100	1310	
613.00 > 169.00	4.040	4.040	0.0	1.000	309732		4.02(2.13-6.40)		5352	
D 36 13C2 PFDoA										
615.00 > 570.00	4.040	4.050	-0.010	1.000	2867415	2.53		101	25996	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.299	4.299	0.0	1.000	1386869	1.05		105	1061	
663.00 > 169.00	4.299	4.299	0.0	1.000	450547		3.08(1.25-3.76)		11004	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.543	4.543	0.0	1.000	3731791	2.60		104	19774	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.543	4.543	0.0	1.000	385324	1.03		103	6701	
713.00 > 219.00	4.532	4.543	-0.011	0.998	276877		1.39(0.71-2.13)		6629	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.958	4.958	0.0	1.000	2269702	0.9267		92.7	695	
813.00 > 169.00	4.958	4.958	0.0	1.000	415148		5.47(2.86-8.58)		3980	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.958	4.966	-0.008	1.000	6321162	2.85		114	16728	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.314	5.314	0.0	1.000	2213151	0.8816		88.2	577	
913.00 > 169.00	5.314	5.314	0.0	1.000	288191		7.68(3.83-11.48)		3255	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 02-Apr-2018 08:37:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b\2018.03.30LLBXZA_032.d

Injection Date: 30-Mar-2018 12:00:50 Instrument ID: A8_N

Lims ID: CCV L4

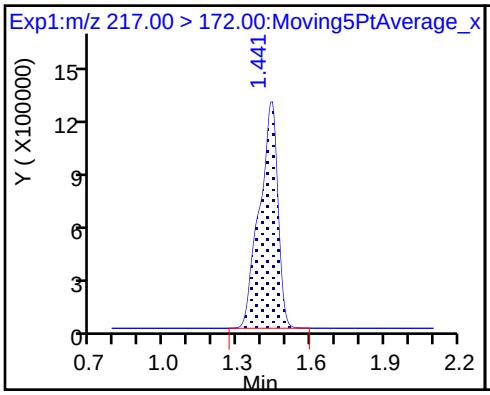
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 3

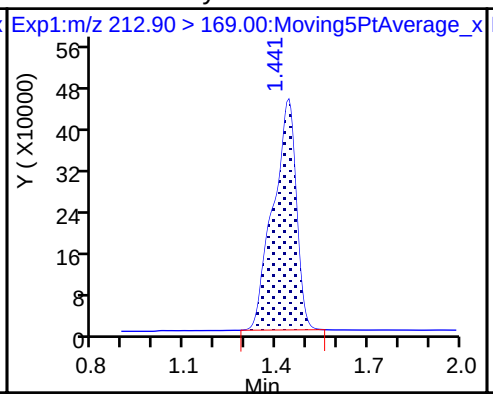
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

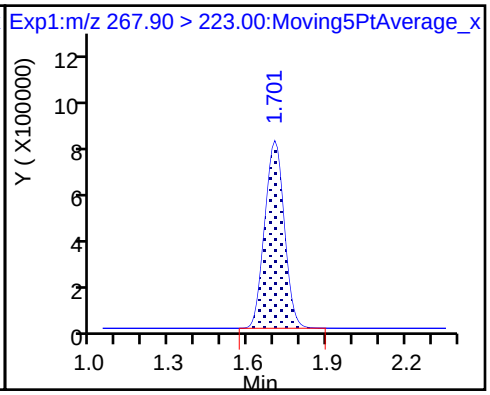
D 1 13C4 PFBA



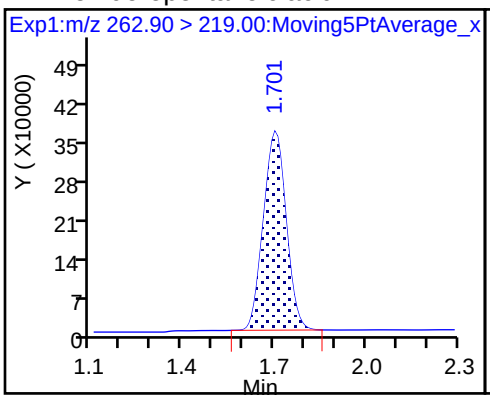
2 Perfluorobutyric acid



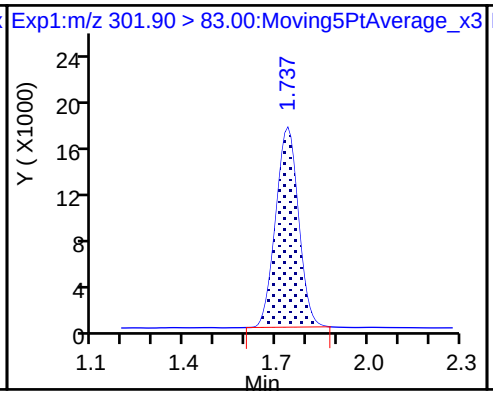
D 3 13C5-PFPeA



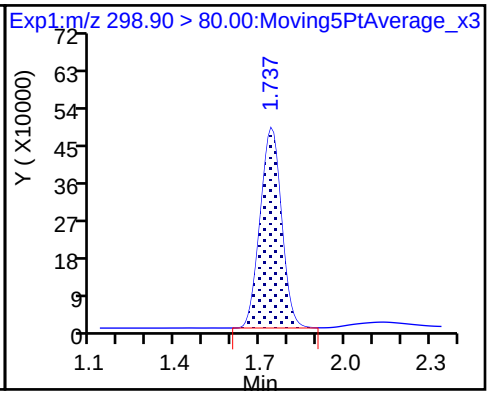
4 Perfluoropentanoic acid



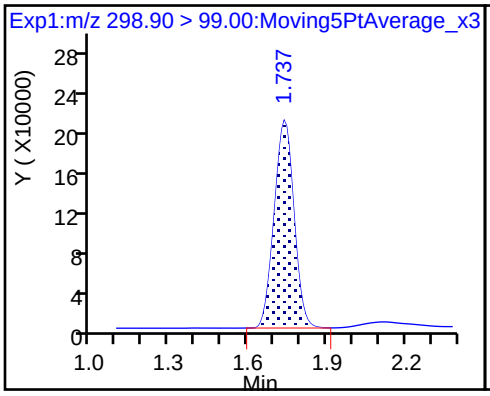
D 47 13C3-PFBS



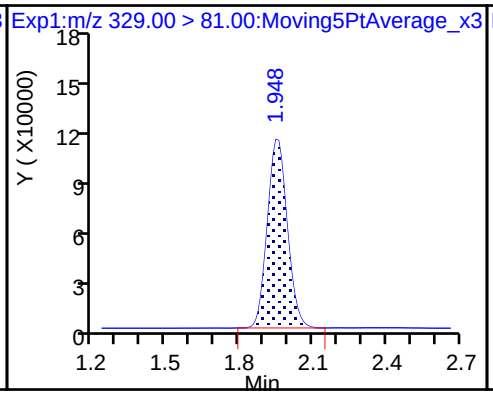
5 Perfluorobutanesulfonic acid



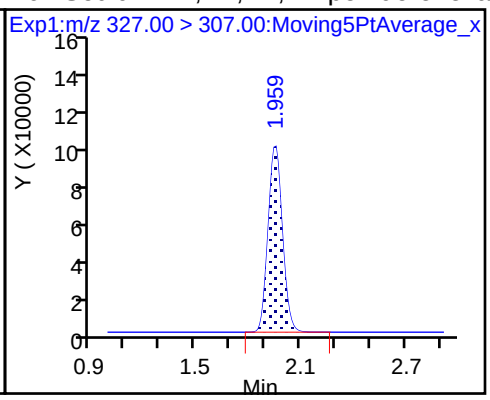
5 Perfluorobutanesulfonic acid



D 60 M2-4:2FTS



61 Sodium 1H,1H,2H,2H-perfluorohexane



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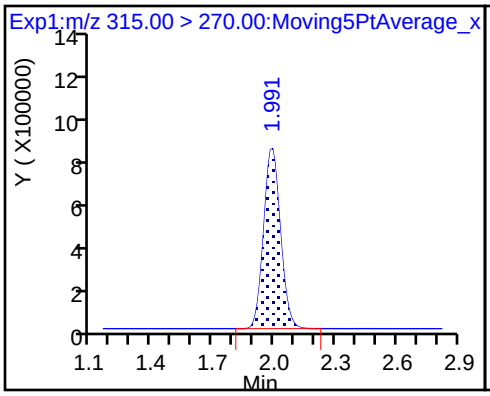
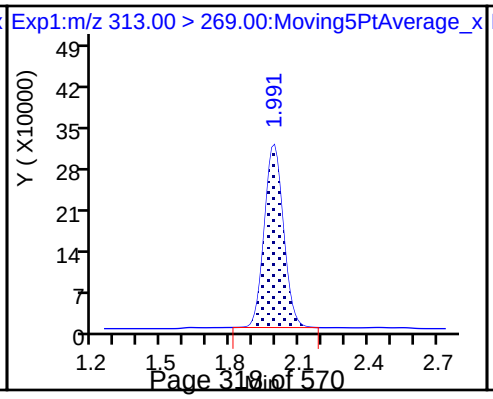
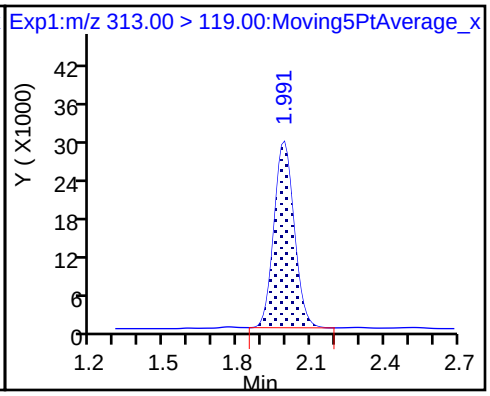


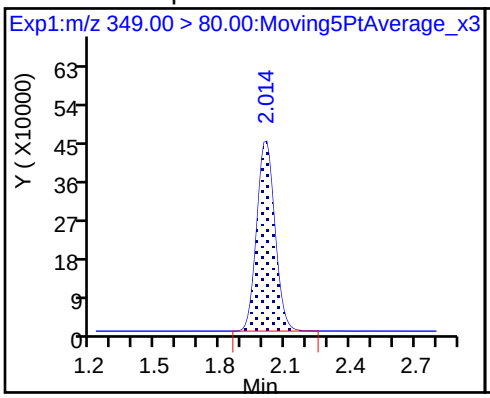
6 Perfluorohexanoic acid



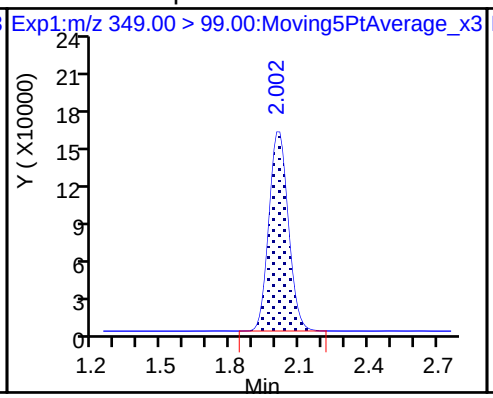
6 Perfluorohexanoic acid



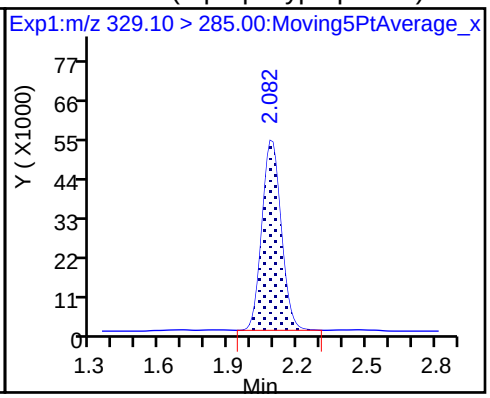
70 Perfluoropentanesulfonic acid



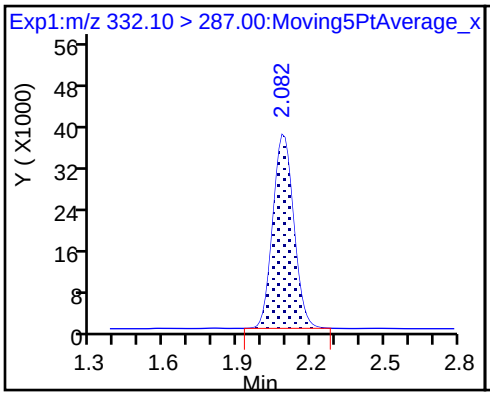
70 Perfluoropentanesulfonic acid



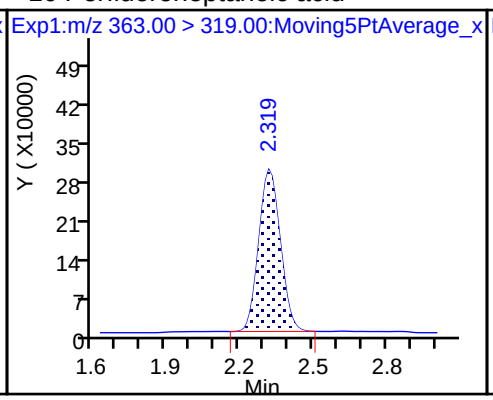
67 Perfluoro(2-propoxypropanoic) acid



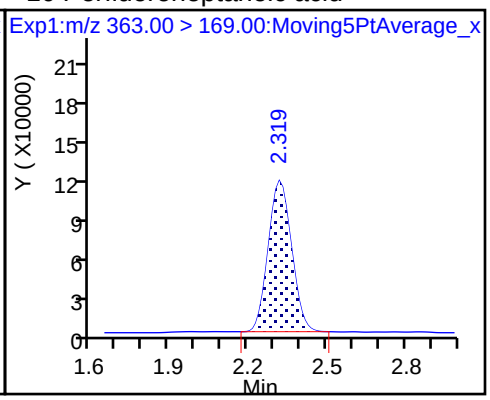
D 64 13C3 HFPO-DA



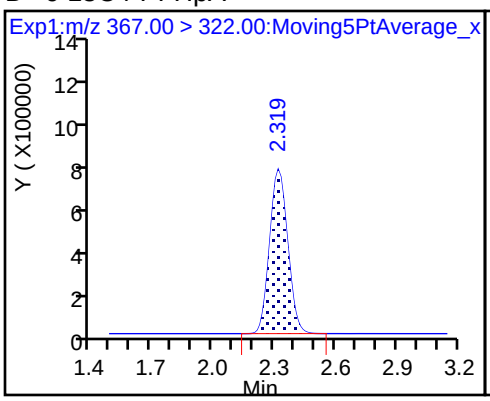
10 Perfluoroheptanoic acid



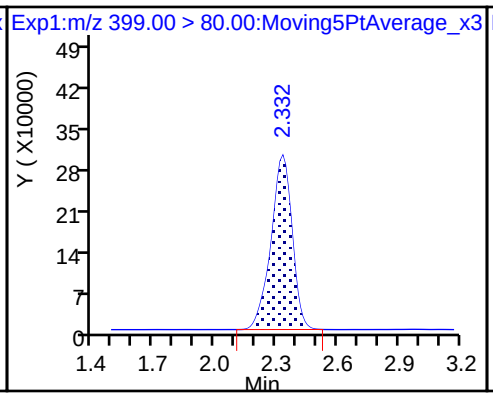
10 Perfluoroheptanoic acid



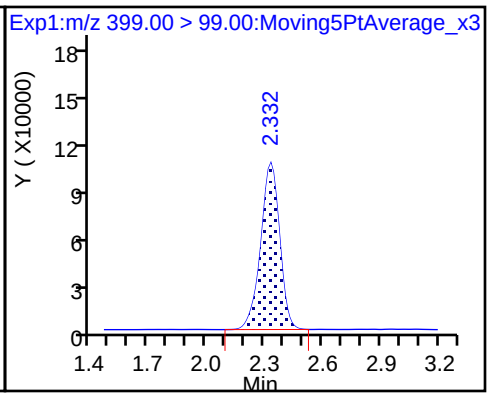
D 9 13C4-PFHpA



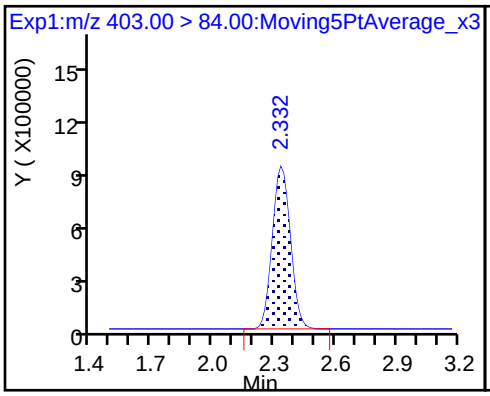
8 Perfluorohexanesulfonic acid



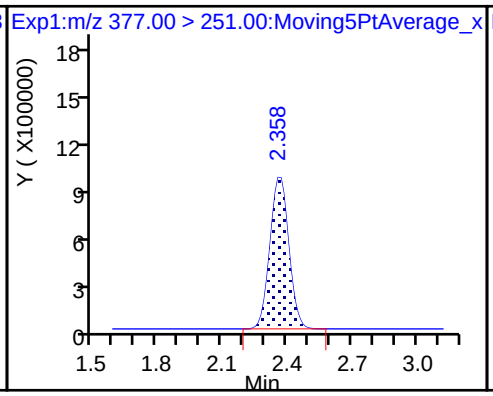
8 Perfluorohexanesulfonic acid



D 11 18O2 PFHxS



65 Adona



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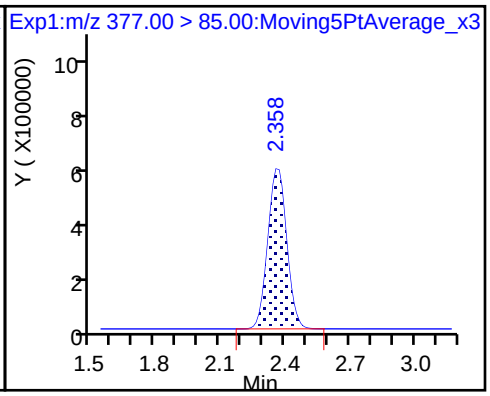
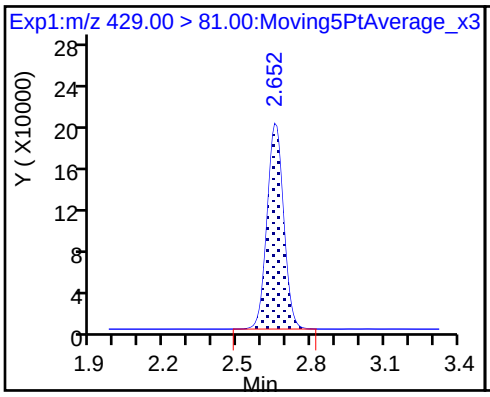
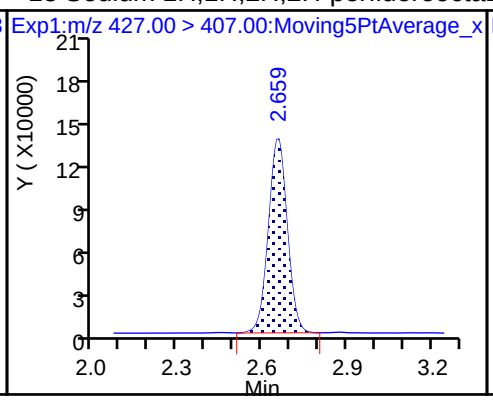


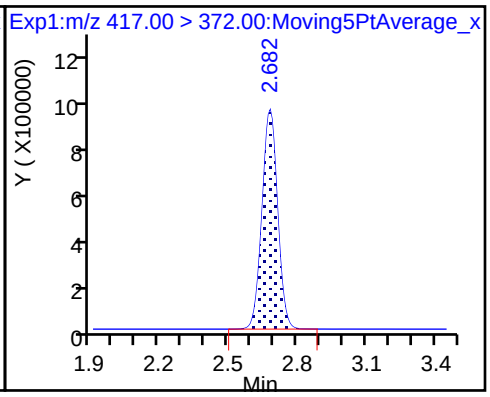
D 12 M2-6:2FTS



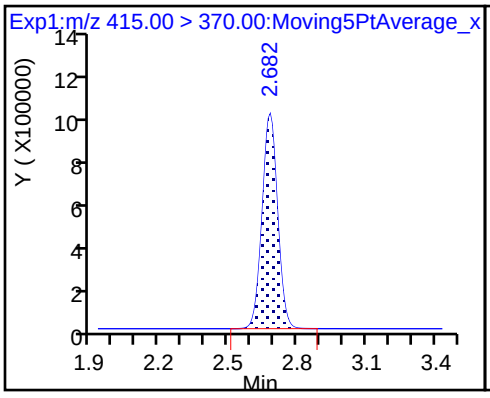
13 Sodium 1H,1H,2H,2H-perfluorooctane



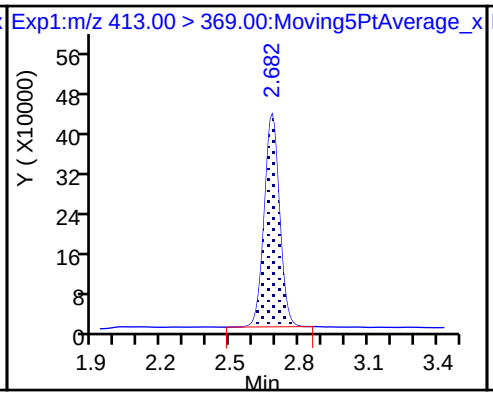
D 14 13C4 PFOA



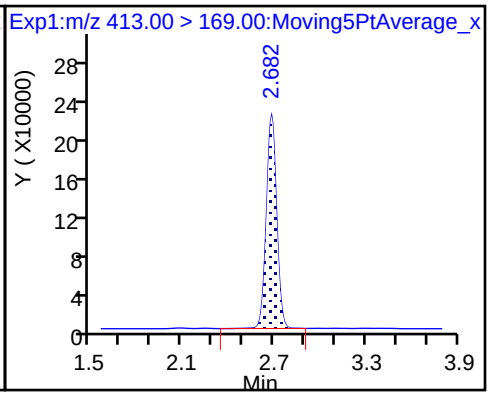
* 62 13C2-PFOA



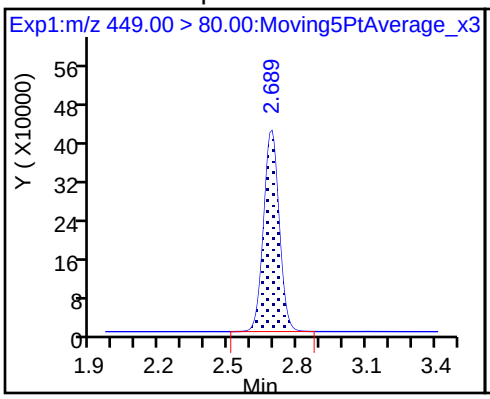
15 Perfluorooctanoic acid



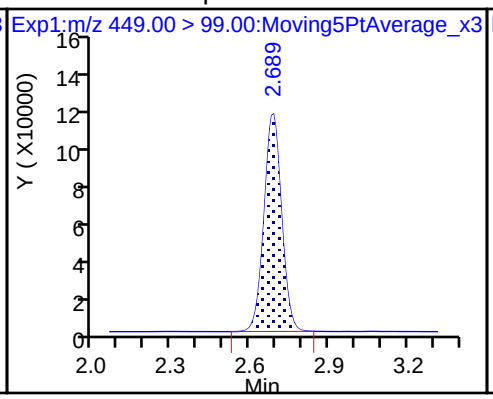
15 Perfluorooctanoic acid



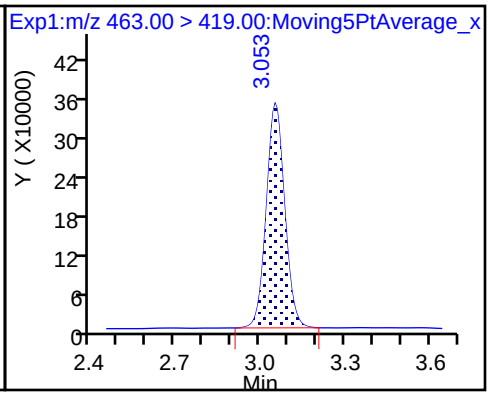
16 Perfluoroheptanesulfonic acid



16 Perfluoroheptanesulfonic acid



20 Perfluorononanoic acid



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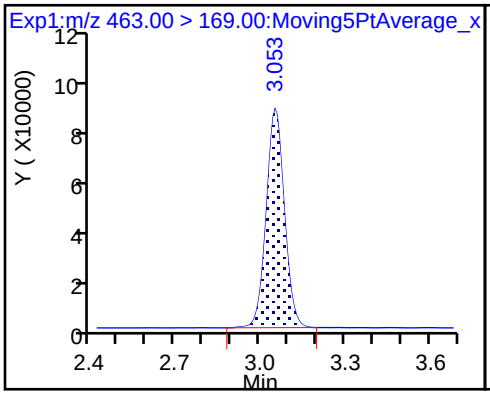
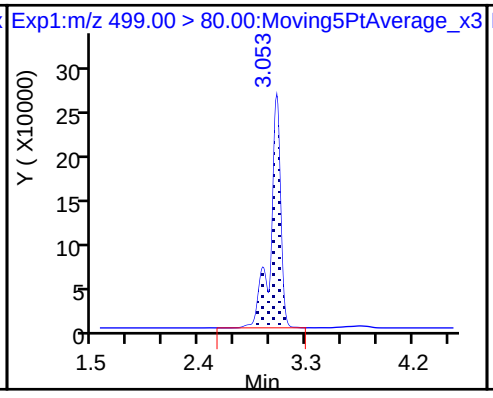
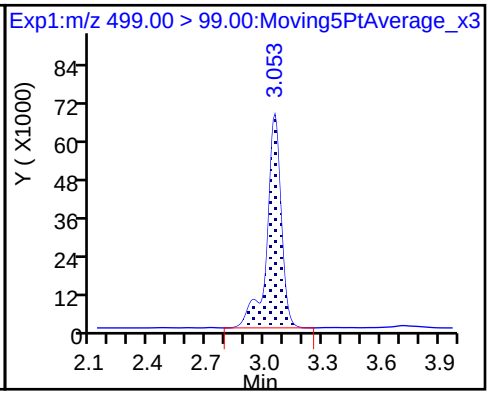


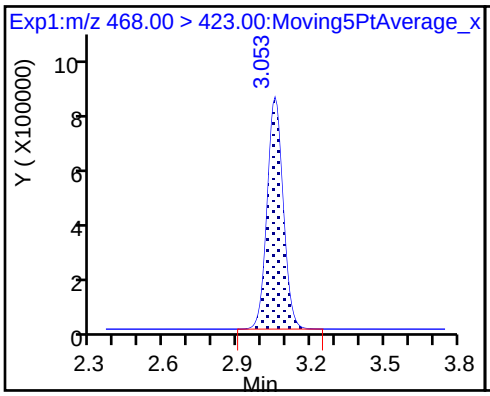
17 Perfluorooctane sulfonic acid



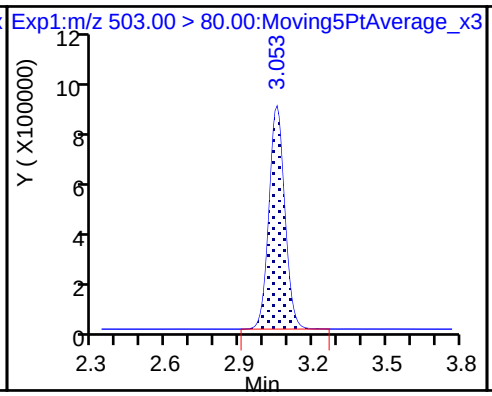
17 Perfluorooctane sulfonic acid



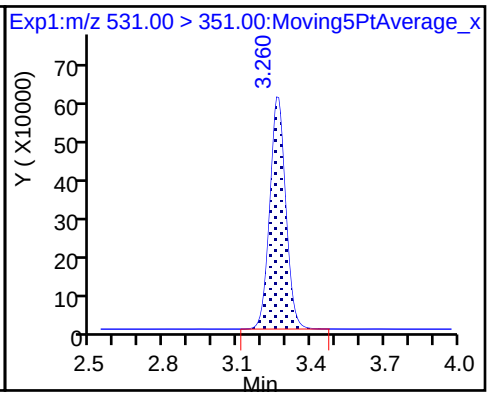
D 19 13C5 PFNA



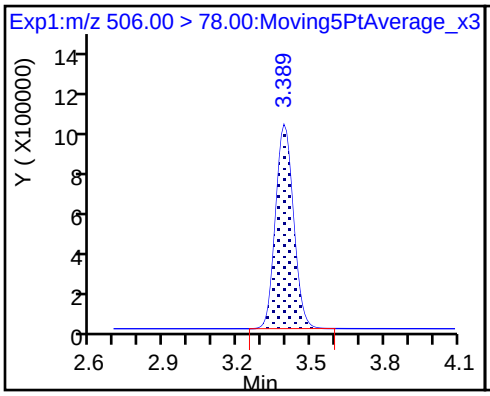
D 18 13C4 PFOS



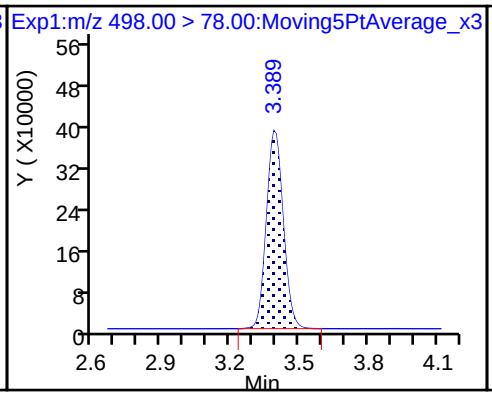
69 9-Chlorohexadecafluoro-3-oxanonane



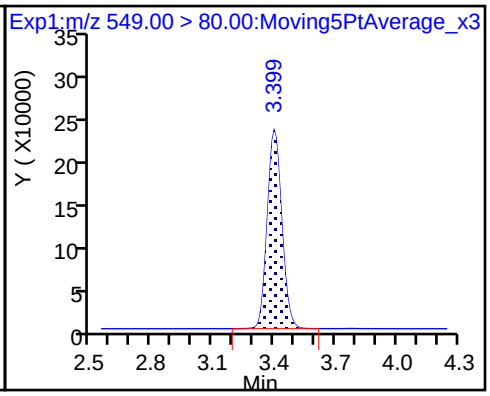
D 21 13C8 FOSA



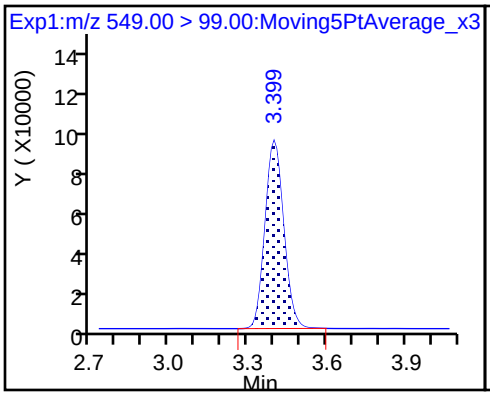
22 Perfluorooctane Sulfonamide



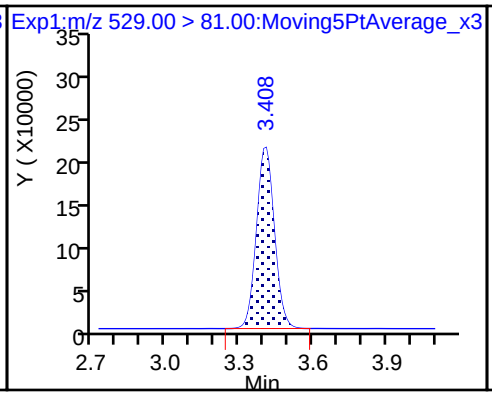
68 Perfluorononanesulfonic acid



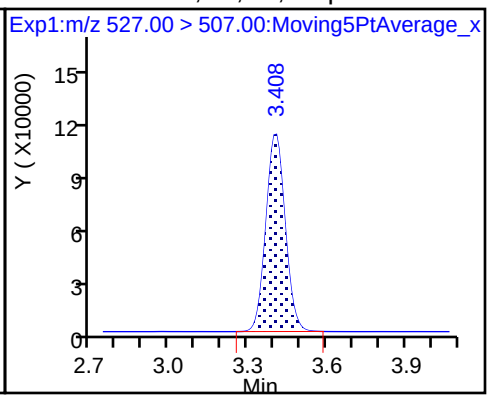
68 Perfluorononanesulfonic acid



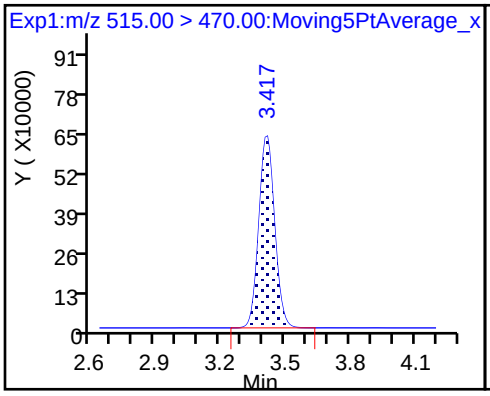
D 26 M2-8:2FTS



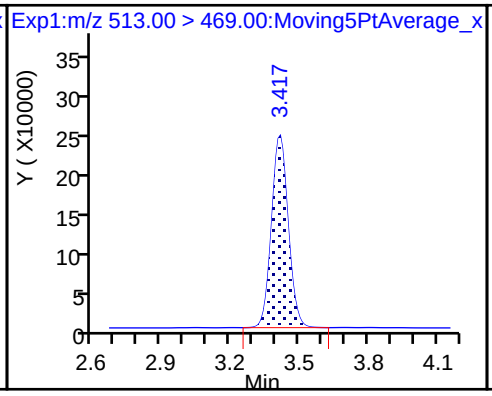
25 Sodium 1H,1H,2H,2H-perfluorodecane



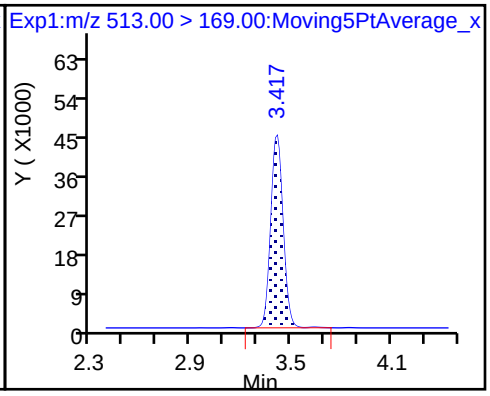
D 23 13C2 PFDA



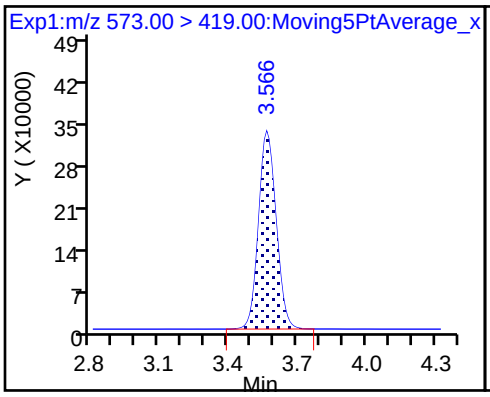
24 Perfluorodecanoic acid



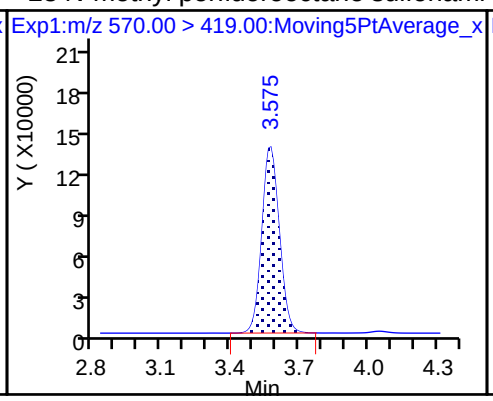
24 Perfluorodecanoic acid



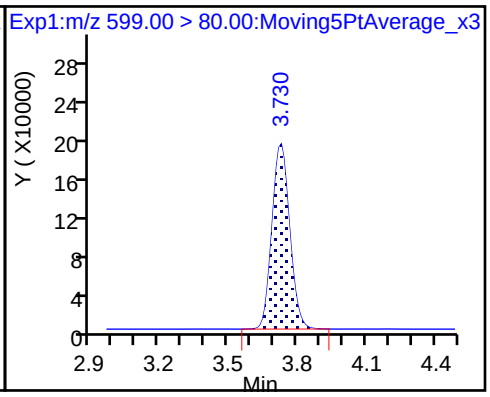
D 27 d3-NMeFOSAA



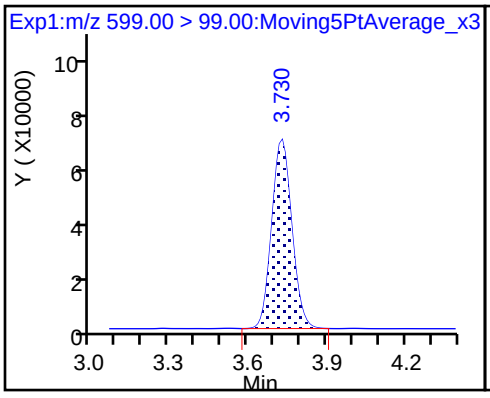
28 N-methyl perfluorooctane sulfonami



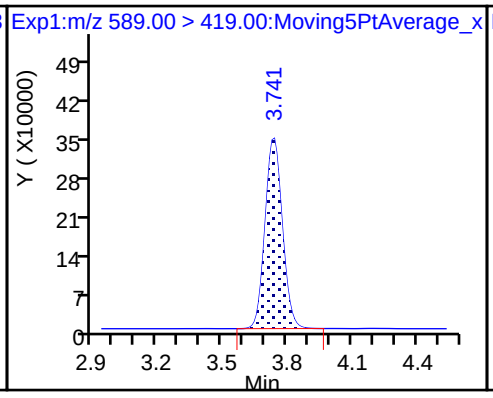
29 Perfluorodecane Sulfonic acid



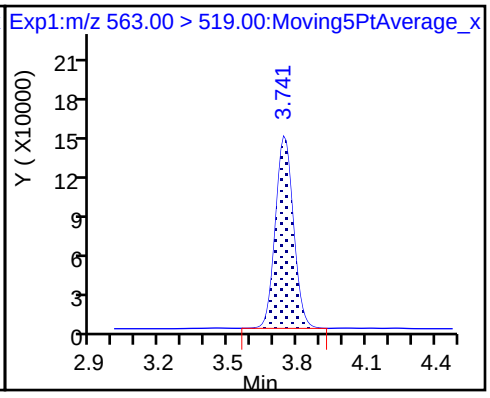
29 Perfluorodecane Sulfonic acid



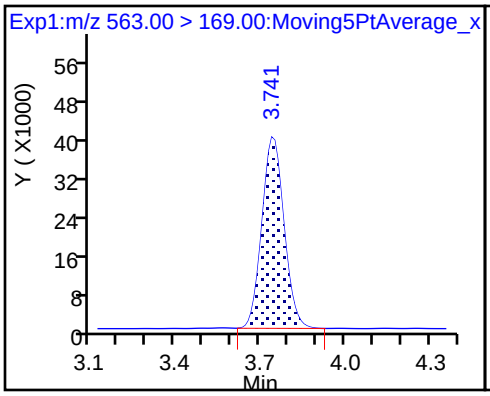
D 32 d5-NEtFOSAA



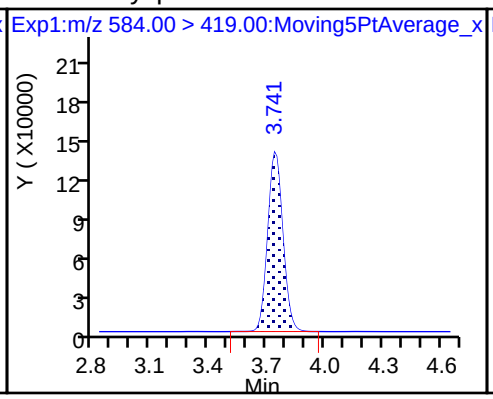
31 Perfluoroundecanoic acid



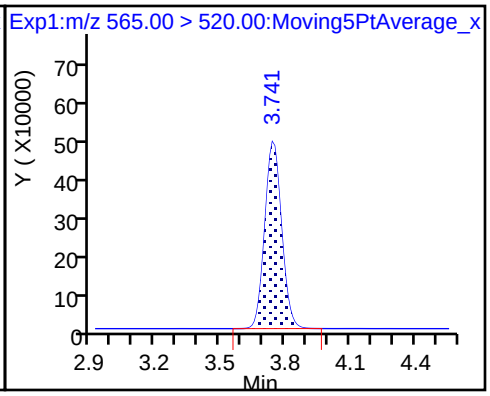
31 Perfluoroundecanoic acid



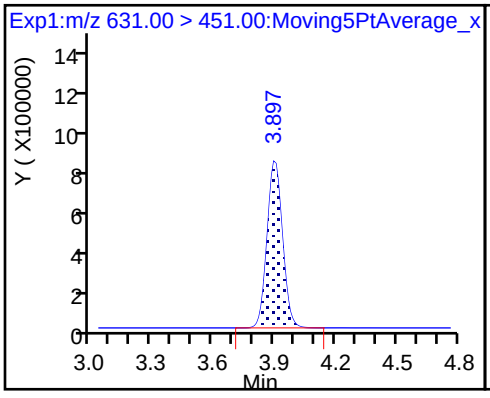
33 N-ethyl perfluorooctane sulfonamid



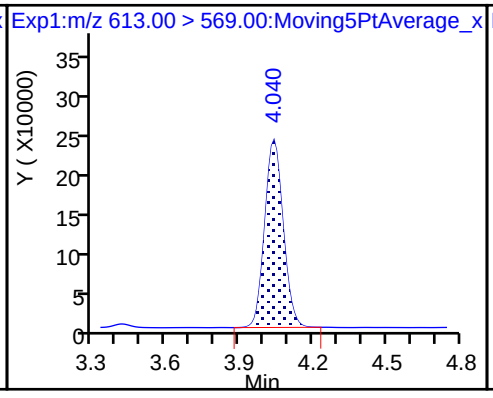
D 30 13C2 PFUnA



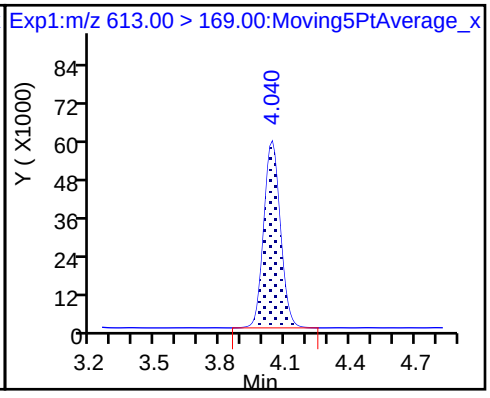
66 11-Chloroeicosafluoro-3-oxaundecan



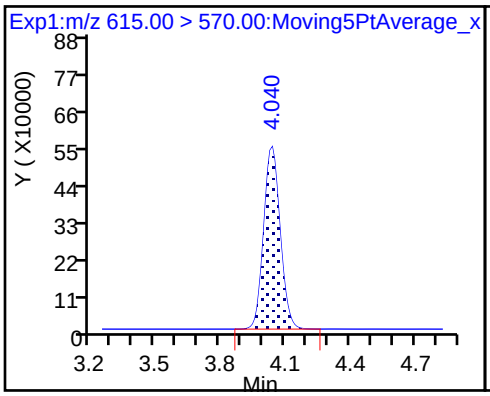
37 Perfluorododecanoic acid



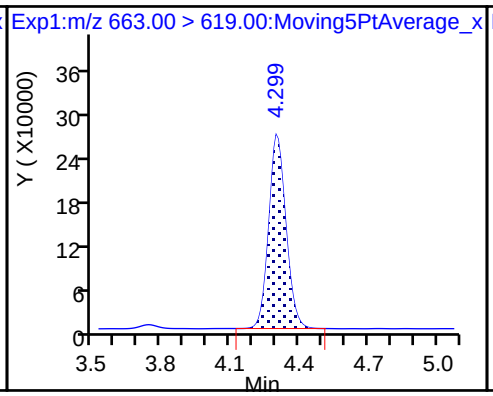
37 Perfluorododecanoic acid



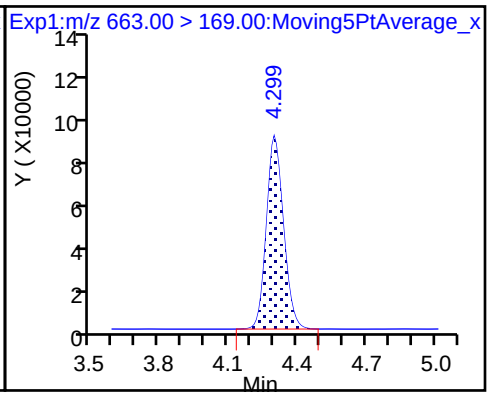
D 36 13C2 PFDoA



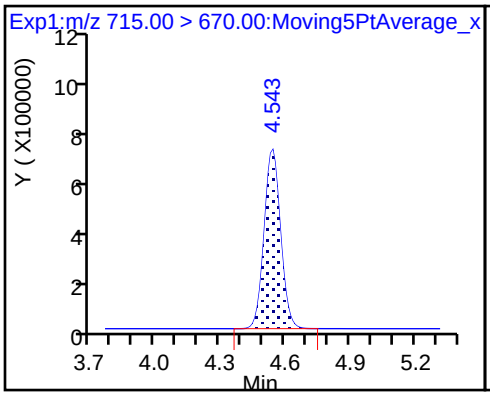
41 Perfluorotridecanoic acid



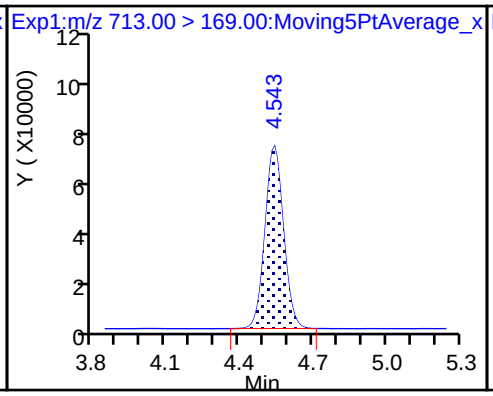
41 Perfluorotridecanoic acid



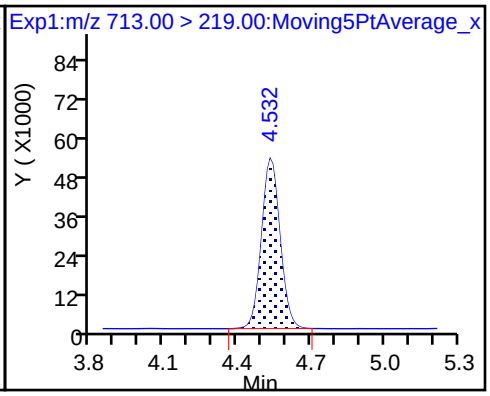
D 43 13C2-PFTeDA



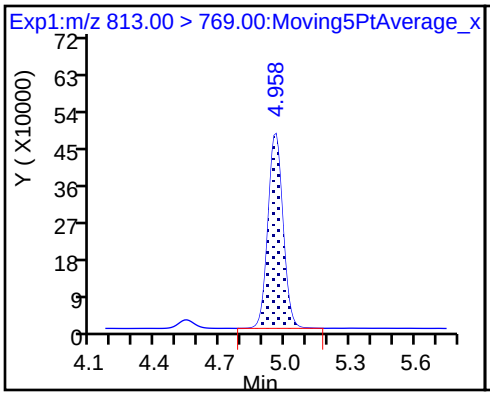
42 Perfluorotetradecanoic acid



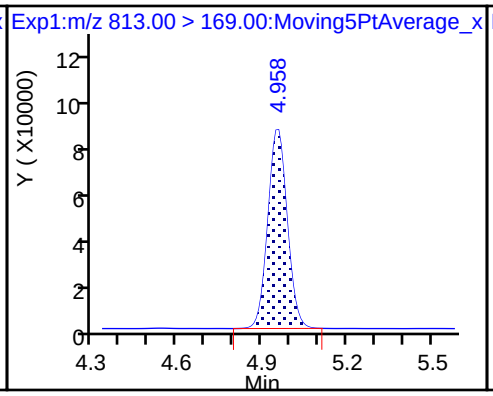
42 Perfluorotetradecanoic acid



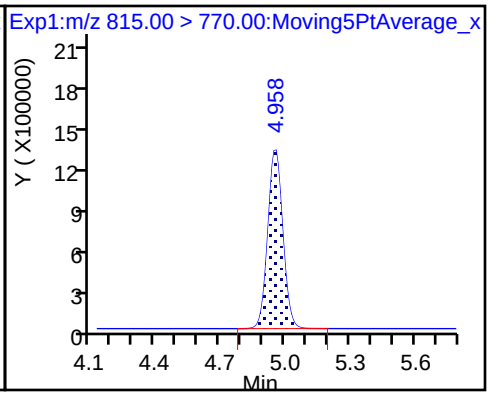
45 Perfluorohexadecanoic acid



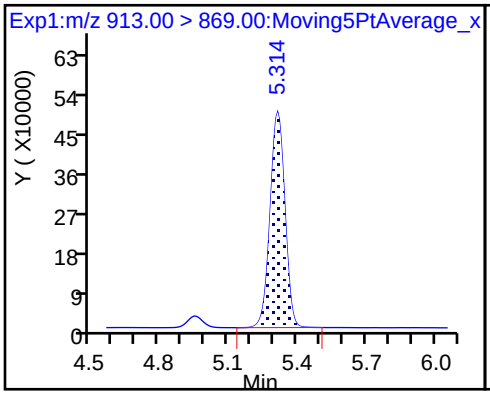
45 Perfluorohexadecanoic acid



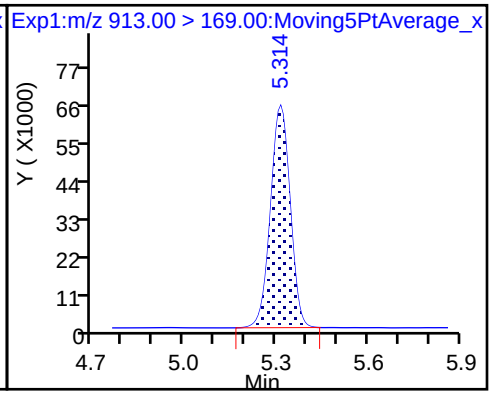
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215776/1 Calibration Date: 03/30/2018 18:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZAG_032.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.8981		0.972	1.00	-2.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.154		0.964	1.00	-3.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	74.48		0.835	0.884	-5.6	50.0
4:2 FTS	AveID	17.26	17.89		0.969	0.934	3.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	0.9756		0.953	1.00	-4.7	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	71.20	69.53		0.916	0.938	-2.4	50.0
HFPO-DA (GenX)	AveID	3.401	3.271		0.962	1.00	-3.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	0.9733		0.896	1.00	-10.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.070		0.872	0.910	-4.2	40.0
Adona	AveID	3.564	3.587		1.01	1.00	0.7	50.0
6:2FTS	AveID	1.868	1.701		0.863	0.948	-8.9	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.093		0.921	1.00	-7.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.313		0.938	0.952	-1.5	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.033		1.00	1.00	0.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.067		0.867	0.928	-6.6	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.849		0.921	0.932	-1.1	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	0.9514		0.963	1.00	-3.7	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8018	0.7921		0.948	0.960	-1.2	50.0
8:2FTS	AveID	1.349	1.179		0.838	0.958	-12.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	0.9771		0.988	1.00	-1.2	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.003		0.952	1.00	-4.8	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6707		0.932	0.964	-3.3	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9102		0.992	1.00	-0.8	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.7825		0.975	1.00	-2.5	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.899		0.941	0.942	-0.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.040		0.962	1.00	-3.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.192		1.03	1.00	3.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2485		0.995	1.00	-0.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9196		0.950	1.00	-5.0	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215776/1 Calibration Date: 03/30/2018 18:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZAG_032.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.8435		0.850	1.00	-15.0	50.0
13C4 PFBA	Ave	1.382	1.389		2.51	2.50	0.5	50.0
13C5 PFPeA	Ave	0.8994	0.8759		2.44	2.50	-2.6	50.0
13C3-PFBS	Ave	0.0206	0.0205		2.31	2.33	-0.7	50.0
M2-4:2FTS	Ave	0.1573	0.1599		2.37	2.34	1.7	50.0
13C2 PFHxA	Ave	0.9916	1.010		2.55	2.50	1.9	50.0
13C3 HFPO-DA	Ave	0.0494	0.0441		2.23	2.50	-10.7	50.0
13C4-PFHpA	Ave	0.9533	0.9764		2.56	2.50	2.4	50.0
18O2 PFHxS	Ave	1.189	1.171		2.33	2.37	-1.5	50.0
M2-6:2FTS	Ave	0.2203	0.2317		2.50	2.38	5.2	40.0
13C4 PFOA	Ave	0.9372	0.9576		2.55	2.50	2.2	50.0
13C4 PFOS	Ave	0.8257	0.8403		2.43	2.39	1.8	50.0
13C5 PFNA	Ave	0.7930	0.7916		2.50	2.50	-0.2	50.0
13C8 FOSA	Ave	1.166	1.080		2.32	2.50	-7.4	50.0
M2-8:2FTS	Ave	0.2562	0.2926		2.74	2.40	14.2	40.0
13C2 PFDA	Ave	0.6698	0.6990		2.61	2.50	4.4	50.0
d3-NMeFOSAA	Ave	0.3583	0.4086		2.85	2.50	14.0	50.0
13C2 PFUnA	Ave	0.5468	0.6057		2.77	2.50	10.8	50.0
d5-NEtFOSAA	Ave	0.3760	0.4452		2.96	2.50	18.4	50.0
13C2 PFDoA	Ave	0.6087	0.6522		2.68	2.50	7.2	50.0
13C2-PFTeDA	Ave	0.7733	0.8111		2.62	2.50	4.9	50.0
13C2-PFHxDA	Ave	1.194	1.362		2.85	2.50	14.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_032.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 30-Mar-2018 18:00:50 ALS Bottle#: 13 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 03-Apr-2018 16:36:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.435	0.001	1.000	6609330	2.51		101	53338	
2 Perfluorobutyric acid										
212.90 > 169.00	1.442	1.442	0.0	1.004	2374323	0.9718		97.2	705	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.701	0.002	0.557	4167734	2.43		97.4	114936	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.703	0.0	1.000	1924325	0.9644		96.4	996	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.737	0.002	1.000	90497	2.31		99.3	547	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.739	0.0	1.000	2562813	0.8346		94.4	1211	
298.90 > 99.00	1.739	1.739	0.0	1.000	1130546		2.27(1.25-3.74)		1266	
D 60 M2-4:2FTS										
329.00 > 81.00	1.961	1.948	0.013	1.000	710748	2.37		102	8415	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.961	1.961	0.0	1.000	650557	0.9686		104	38536	
D 7 13C2 PFHxA										
315.00 > 270.00	1.994	1.991	0.003	1.000	4807247	2.55		102	121063	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.994	1.994	0.0	1.000	1876058	0.9534		95.3	2756	
313.00 > 119.00	1.994	1.994	0.0	1.000	169413		11.07(5.03-15.10)		1641	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.016	0.0	1.000	2538410	0.9159		97.6	44259	
349.00 > 99.00	2.016	2.016	0.0	1.000	920715		2.76(1.36-4.07)		19946	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	1.000	209874	2.23		89.3	3338	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	274615	0.9617		96.2	1569	
D 9 13C4-PFHpA										
367.00 > 322.00	2.322	2.319	0.003	1.000	4646207	2.56		102	107954	
D 11 18O2 PFHxS										
403.00 > 84.00	2.336	2.332	0.004	1.000	5270816	2.33		98.5	65521	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.322	2.322	0.0	1.000	1808900	0.8958		89.6	1404	
363.00 > 169.00	2.322	2.322	0.0	1.000	723813		2.50(1.13-3.40)		1637	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.336	2.336	0.0	1.000	2169738	0.8716		95.8	7472	
399.00 > 99.00	2.336	2.336	0.0	1.000	706987		3.07(1.50-4.49)		3890	
65 Adona										
377.00 > 251.00	2.374	2.374	0.0	1.000	5737764	1.01		101	88041	
377.00 > 85.00	2.374	2.374	0.0	1.000	3329532		1.72(0.84-2.53)		55962	
D 12 M2-6:2FTS										
429.00 > 81.00	2.661	2.655	0.006	1.000	1047378	2.50		105	24533	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.668	2.668	0.0	1.003	711106	0.8634		91.1	7404	
D 14 13C4 PFOA										
417.00 > 372.00	2.691	2.685	0.006	1.000	4556389	2.55		102	61224	
* 62 13C2-PFOA										
415.00 > 370.00	2.691	2.691	0.0		4758338	2.50			56732	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.691	2.691	0.0	1.000	1991340	0.9214		92.1	554	
413.00 > 169.00	2.691	2.691	0.0	1.000	1032859		1.93(0.84-2.52)		3145	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.698	2.698	0.0	1.000	1998693	0.9377		98.5	30610	
449.00 > 99.00	2.691	2.698	-0.007	0.997	535244		3.73(1.94-5.82)		10449	
D 18 13C4 PFOS										
503.00 > 80.00	3.060	3.051	0.009	1.000	3822622	2.43		102	42795	
D 19 13C5 PFNA										
468.00 > 423.00	3.060	3.051	0.009	1.000	3766756	2.50		99.8	74753	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.060	3.060	0.0	1.000	1583890	0.8667		93.4	3168	
499.00 > 99.00	3.060	3.060	0.0	1.000	358281		4.42(2.31-6.93)		2851	
20 Perfluorononanoic acid										
463.00 > 419.00	3.060	3.060	0.0	1.000	1555826	1.00		100	2080	
463.00 > 169.00	3.060	3.060	0.0	1.000	367077		4.24(1.90-5.69)		13313	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.273	3.273	0.0	1.000	2755966	0.9215		98.9	61921	
D 21 13C8 FOSA										
506.00 > 78.00	3.398	3.388	0.010	1.000	5140800	2.32		92.6	53024	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.398	3.398	0.0	1.000	1956303	0.9632		96.3	31868	
D 26 M2-8:2FTS										
529.00 > 81.00	3.417	3.407	0.010	1.000	1333610	2.74		114	23673	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.407	3.407	0.0	1.000	1216202	0.9484		98.8	26784	
549.00 > 99.00	3.407	3.407	0.0	1.000	443864		2.74(1.33-3.97)		9705	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.417	3.417	0.0	1.000	629104	0.8376		87.4	20220	
D 23 13C2 PFDA										
515.00 > 470.00	3.426	3.416	0.010	1.000	3325826	2.61		104	59831	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.426	3.426	0.0	1.000	1299868	0.9877		98.8	5390	
513.00 > 169.00	3.426	3.426	0.0	1.000	223740		5.81(2.36-7.09)		4870	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.575	3.574	0.001	1.000	1944047	2.85		114	32748	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.586	3.586	0.0	1.003	780137	0.9517		95.2	6010	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.740	3.740	0.0	1.000	1034086	0.9319		96.7	27443	
599.00 > 99.00	3.740	3.740	0.0	1.000	365584		2.83(1.39-4.16)		13887	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.751	3.740	0.011	1.000	2118202	2.96		118	13901	
D 30 13C2 PFUnA										
565.00 > 520.00	3.751	3.750	0.001	1.000	2882116	2.77		111	48237	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.751	3.751	0.0	1.000	771157	0.99		99.2	15531	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.751	3.751	0.0	1.000	902050	0.9752		97.5	4654	
563.00 > 169.00	3.751	3.751	0.0	1.000	230172		3.92(2.12-6.36)		6061	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.918	3.918	0.0	1.000	4368161	0.9410		99.9	63702	
D 36 13C2 PFDoA										
615.00 > 570.00	4.050	4.040	0.010	1.000	3103439	2.68		107	19715	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.050	4.050	0.0	1.000	1291243	0.9624		96.2	1173	
613.00 > 169.00	4.050	4.050	0.0	1.000	312141		4.14(2.13-6.40)		5890	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.307	4.307	0.0	1.000	1479637	1.03		103	942	
663.00 > 169.00	4.307	4.307	0.0	1.000	462971		3.20(1.25-3.76)		5481	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.553	4.544	0.009	1.000	3859371	2.62		105	20941	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.553	4.553	0.0	1.000	383610	0.99		99.5	5557	
713.00 > 219.00	4.543	4.553	-0.010	0.998	284278		1.35(0.71-2.13)		4836	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.966	4.959	0.007	1.000	6481535	2.85		114	15360	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.966	4.966	0.0	1.000	2384271	0.9499		95.0	625	
813.00 > 169.00	4.966	4.966	0.0	1.000	409323		5.82(2.86-8.58)		3283	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.336	5.336	0.0	1.000	2186789	0.8496		85.0	486	
913.00 > 169.00	5.329	5.336	-0.007	0.999	279488		7.82(3.83-11.48)		2220	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 07-Apr-2018 11:36:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_032.d

Injection Date: 30-Mar-2018 18:00:50 Instrument ID: A8_N

Lims ID: CCV L4

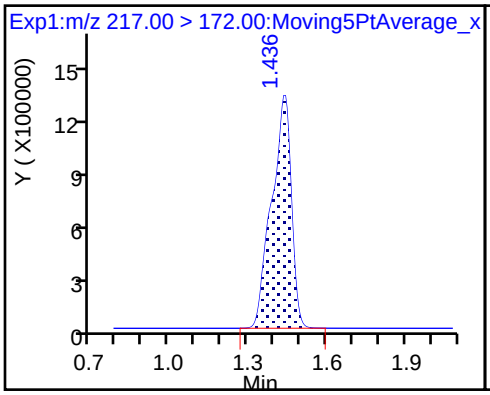
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 1

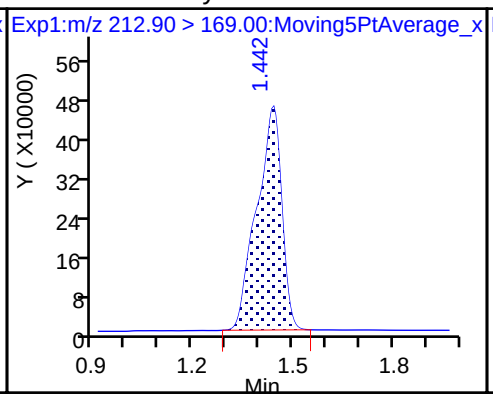
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

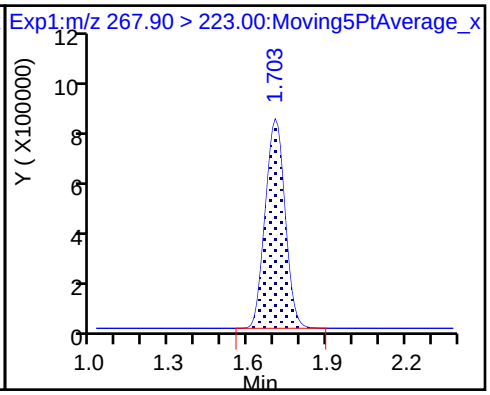
D 1 13C4 PFBA



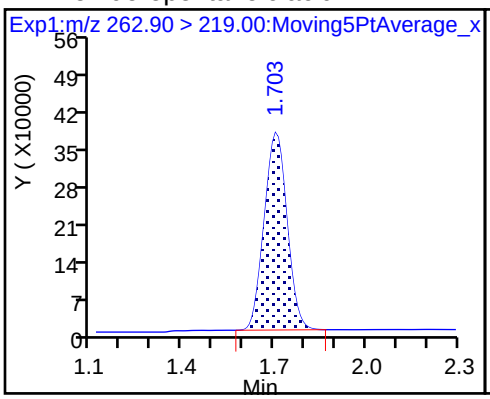
2 Perfluorobutyric acid



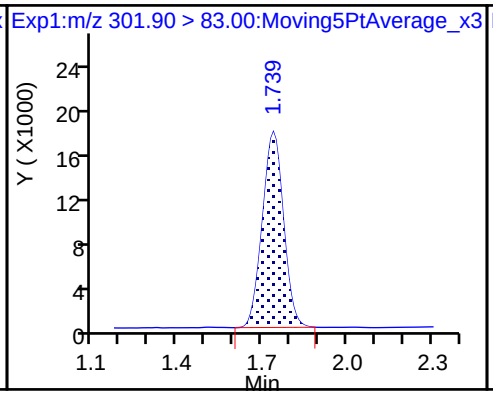
D 3 13C5-PFPeA



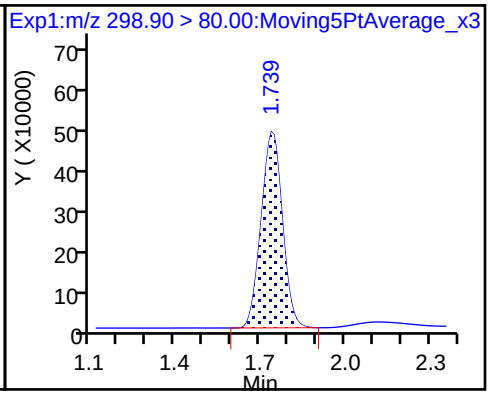
4 Perfluoropentanoic acid



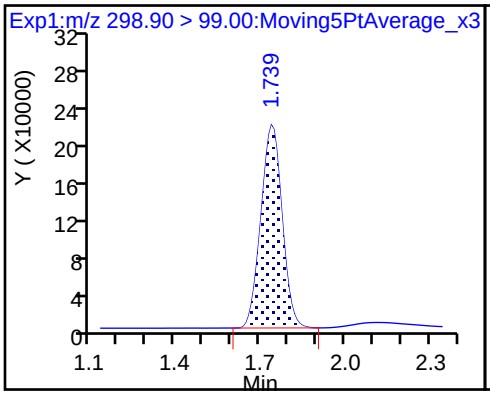
D 47 13C3-PFBS



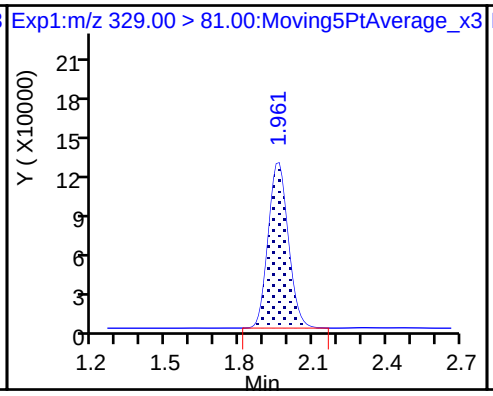
5 Perfluorobutanesulfonic acid



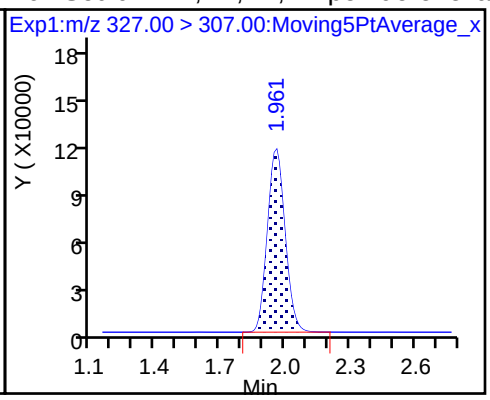
5 Perfluorobutanesulfonic acid



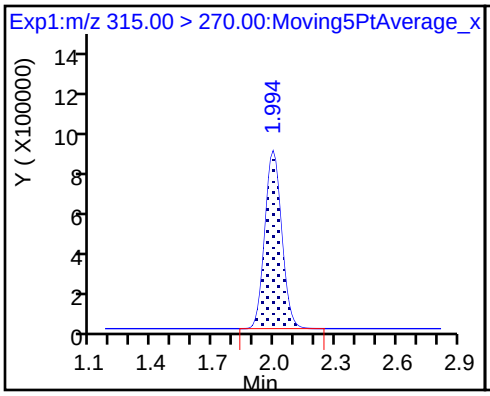
D 60 M2-4:2FTS



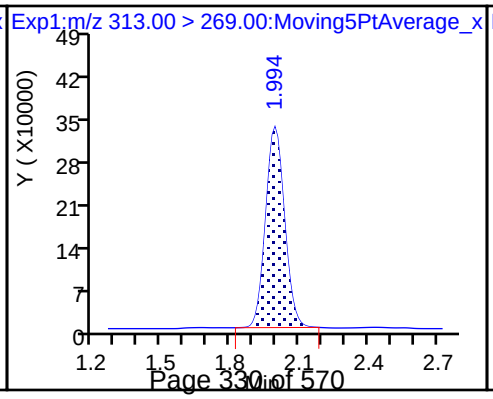
61 Sodium 1H,1H,2H,2H-perfluorohexane



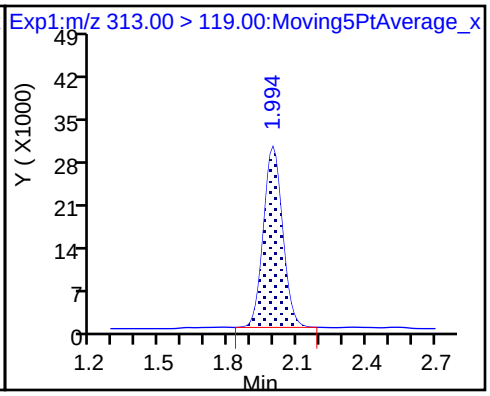
D 7 13C2 PFHxA



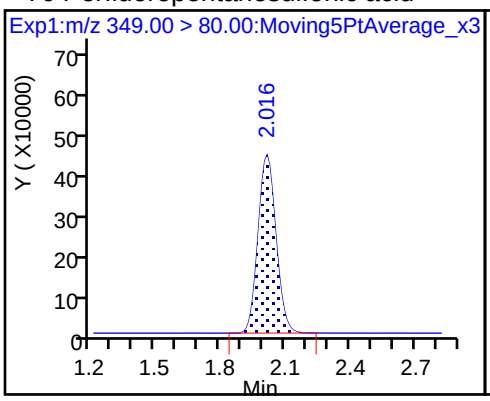
6 Perfluorohexanoic acid



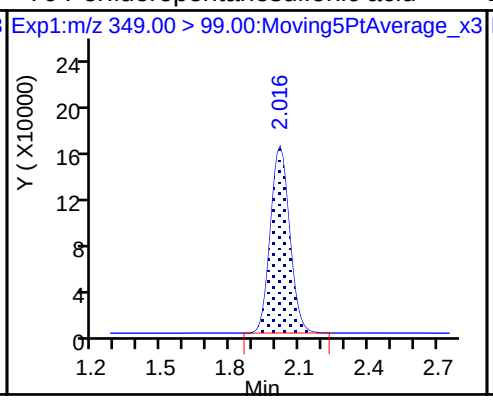
6 Perfluorohexanoic acid



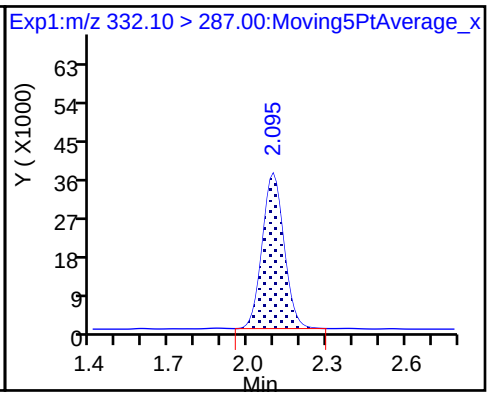
70 Perfluoropentanesulfonic acid



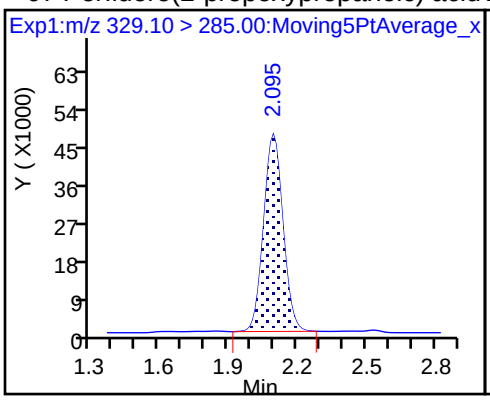
70 Perfluoropentanesulfonic acid



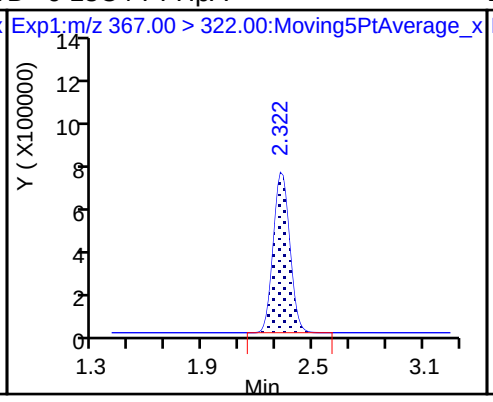
D 64 13C3 HFPO-DA



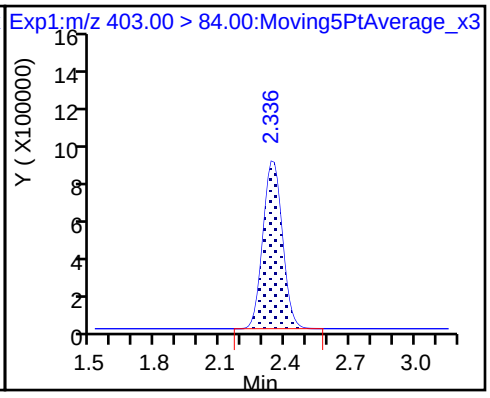
67 Perfluoro(2-propoxypropanoic) acid



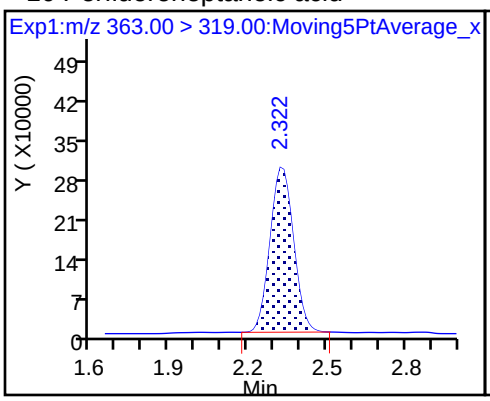
D 9 13C4-PFHpA



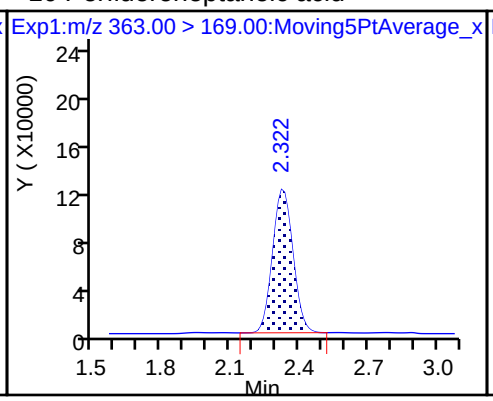
D 11 18O2 PFHxS



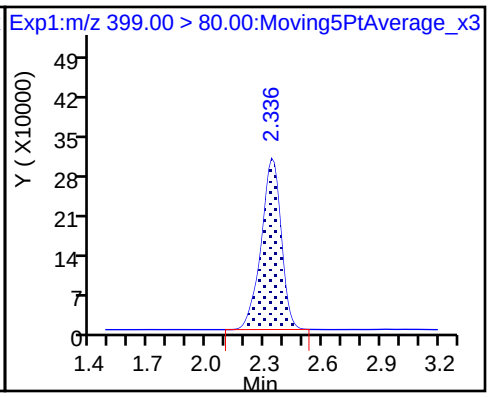
10 Perfluoroheptanoic acid



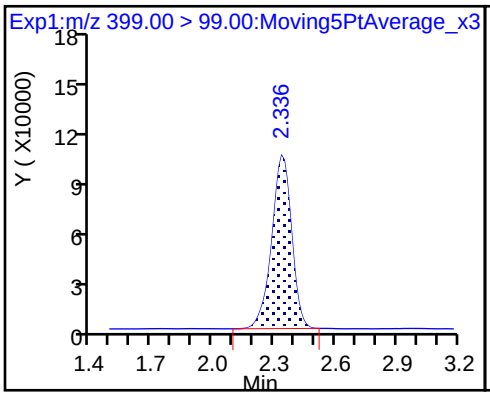
10 Perfluoroheptanoic acid



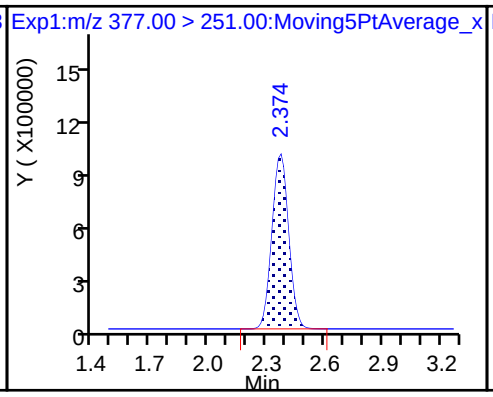
8 Perfluorohexanesulfonic acid



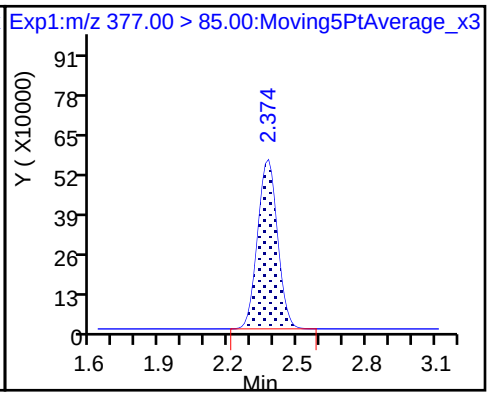
8 Perfluorohexanesulfonic acid



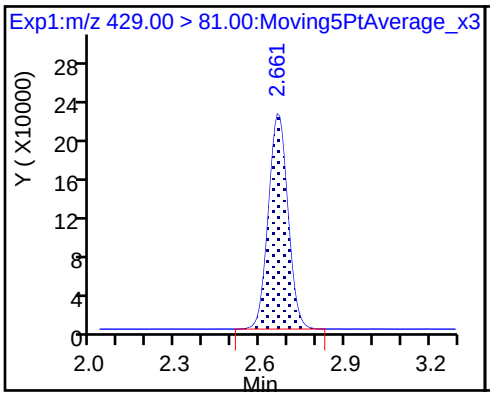
65 Adona



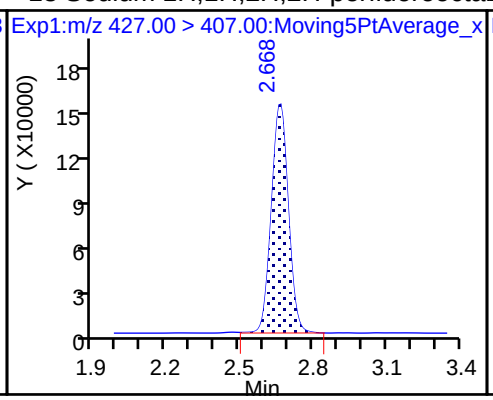
65 Adona



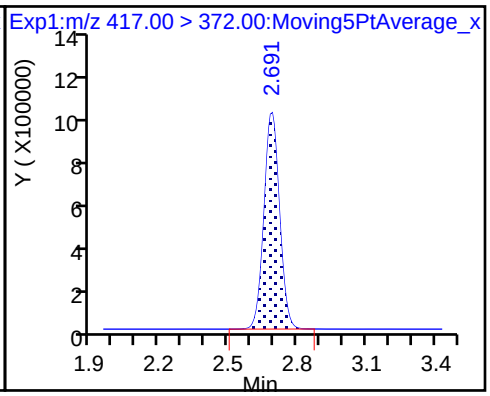
D 12 M2-6:2FTS



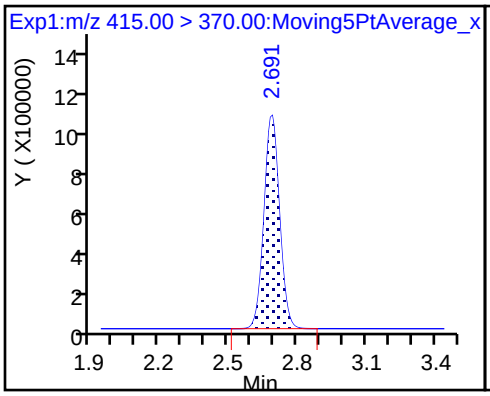
13 Sodium 1H,1H,2H,2H-perfluorooctane



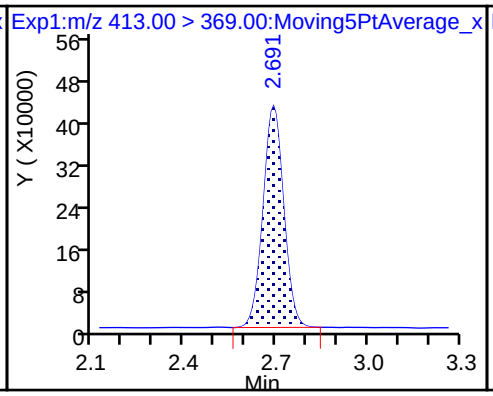
D 14 13C4 PFOA



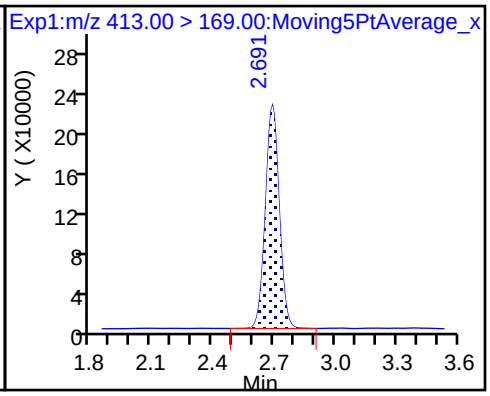
* 62 13C2-PFOA



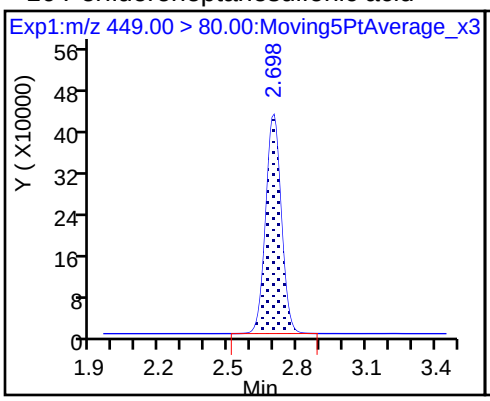
15 Perfluorooctanoic acid



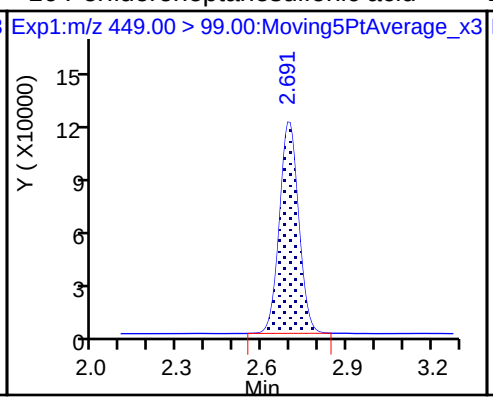
15 Perfluorooctanoic acid



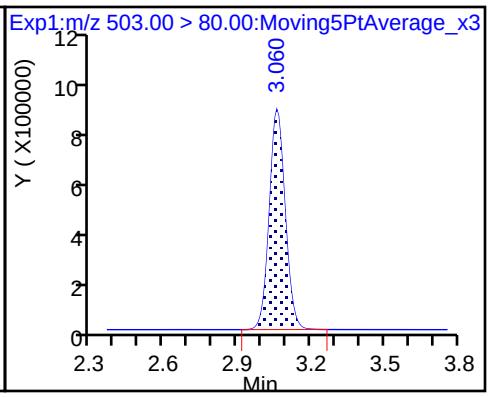
16 Perfluoroheptanesulfonic acid



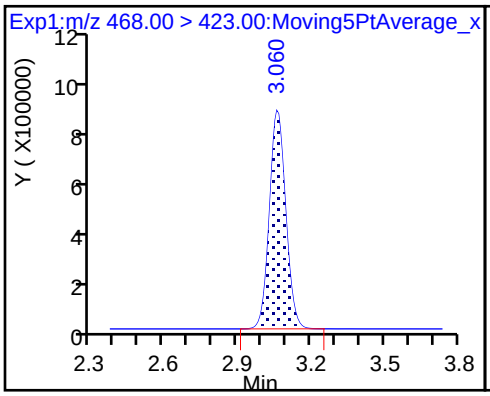
16 Perfluoroheptanesulfonic acid



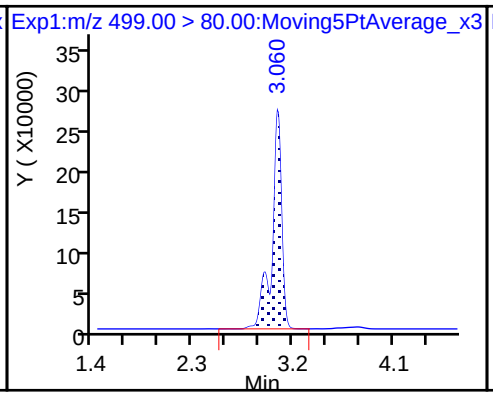
D 18 13C4 PFOS



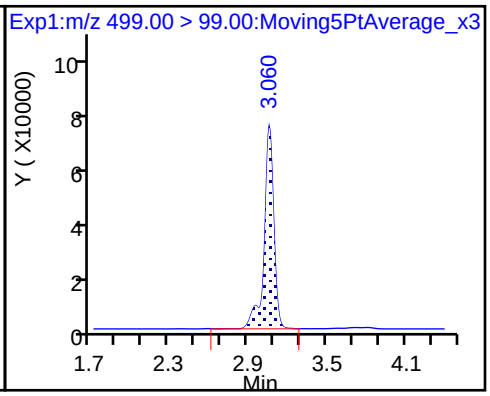
D 19 13C5 PFNA



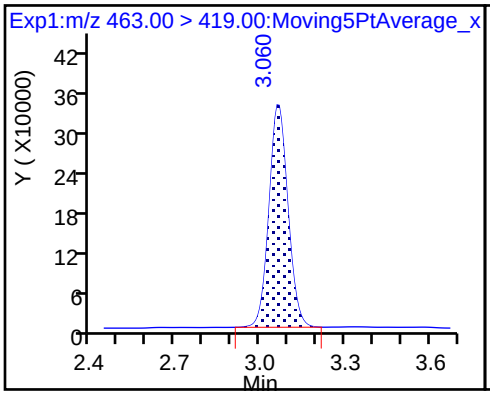
17 Perfluorooctane sulfonic acid



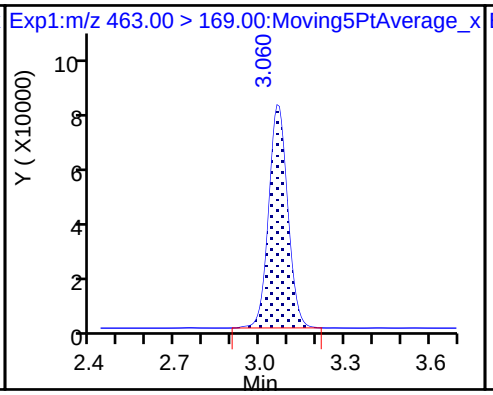
17 Perfluorooctane sulfonic acid



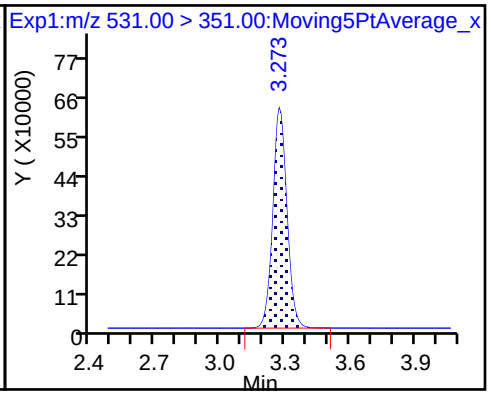
20 Perfluorononanoic acid



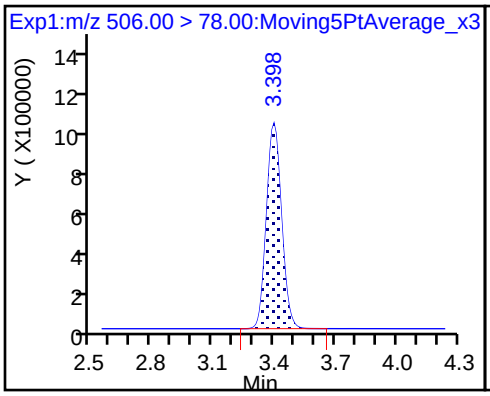
20 Perfluorononanoic acid



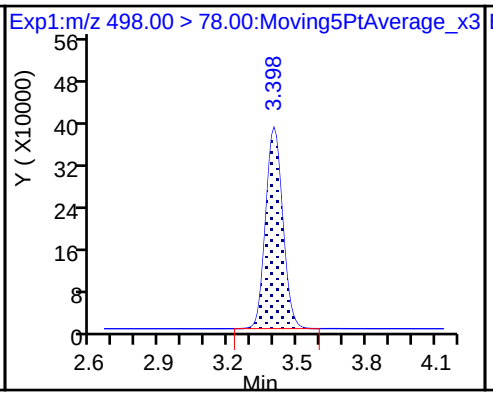
69 9-Chlorohexadecafluoro-3-oxanonane



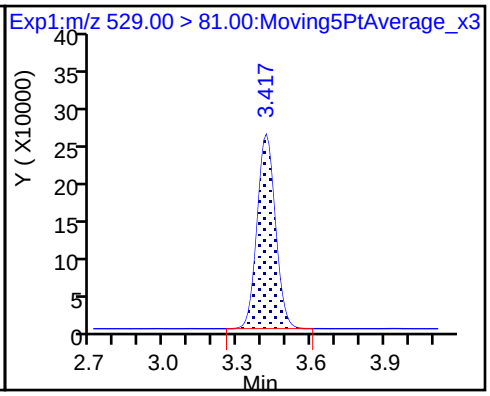
D 21 13C8 FOSA



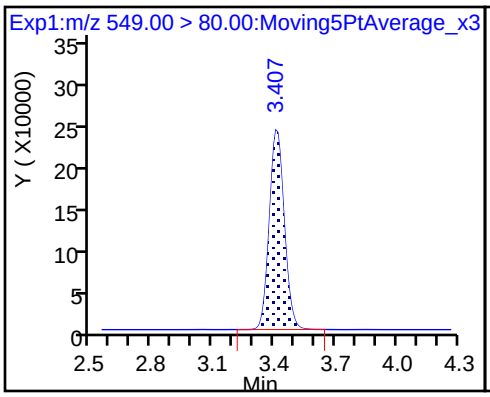
22 Perfluorooctane Sulfonamide



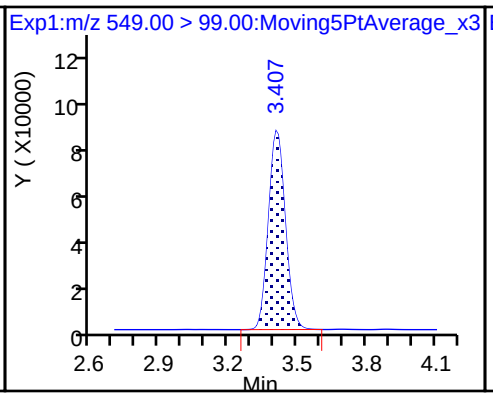
D 26 M2-8:2FTS



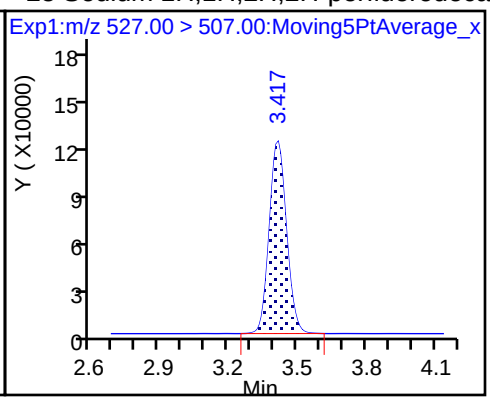
68 Perfluorononanesulfonic acid



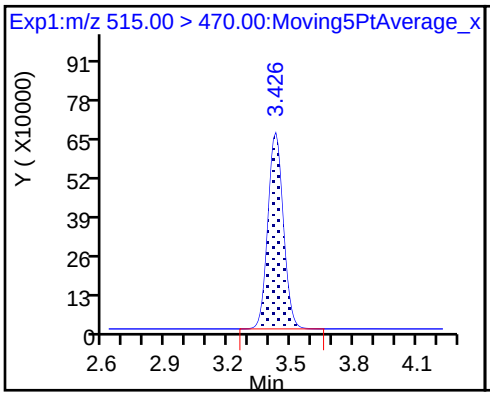
68 Perfluorononanesulfonic acid



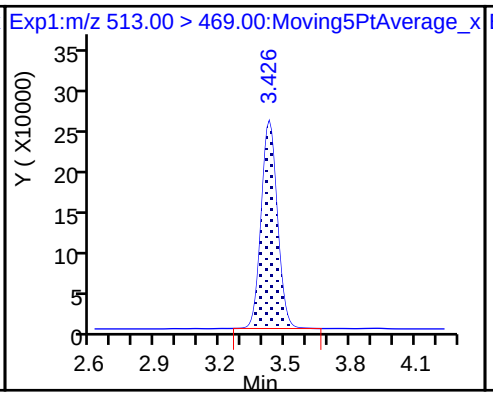
25 Sodium 1H,1H,2H,2H-perfluorodecane



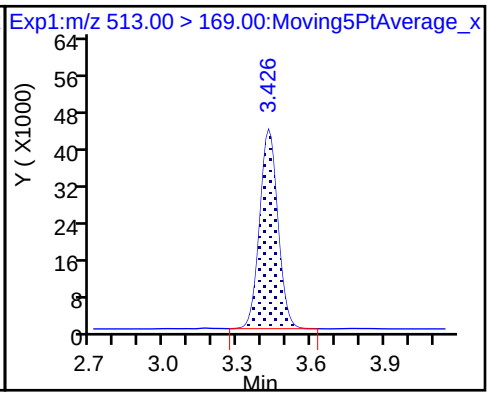
D 23 13C2 PFDA



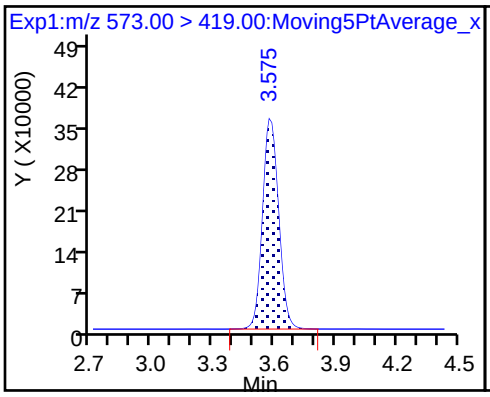
24 Perfluorodecanoic acid



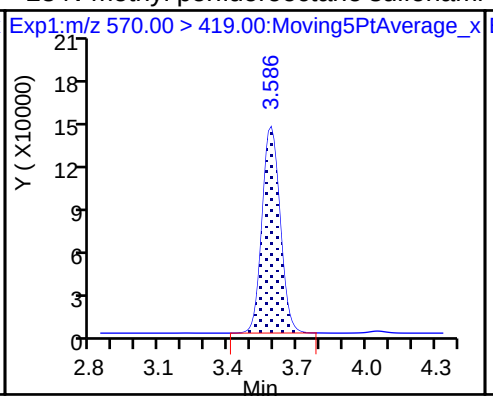
24 Perfluorodecanoic acid



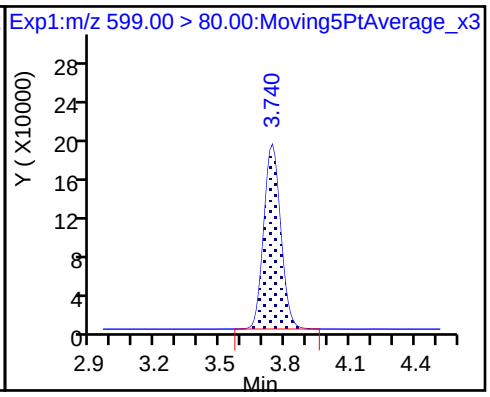
D 27 d3-NMeFOSAA



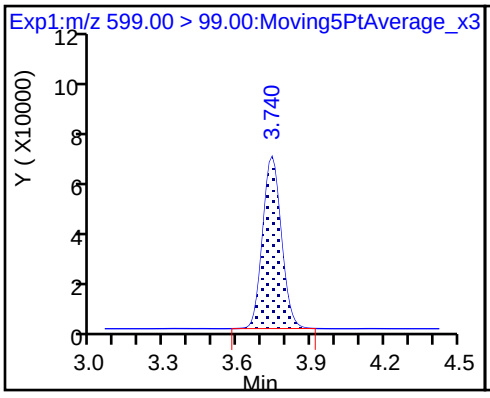
28 N-methyl perfluorooctane sulfonami



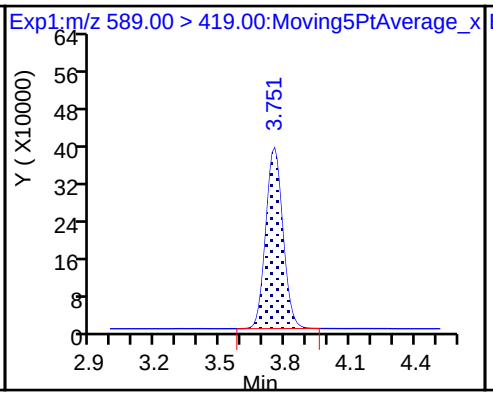
29 Perfluorodecane Sulfonic acid



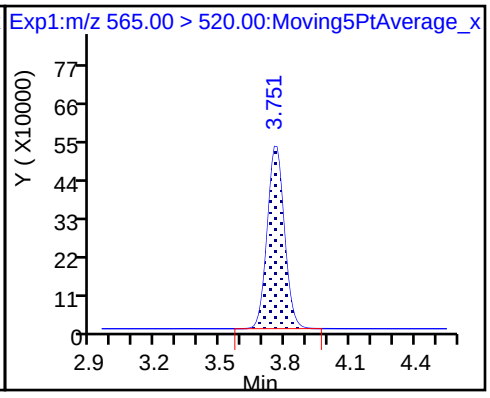
29 Perfluorodecane Sulfonic acid



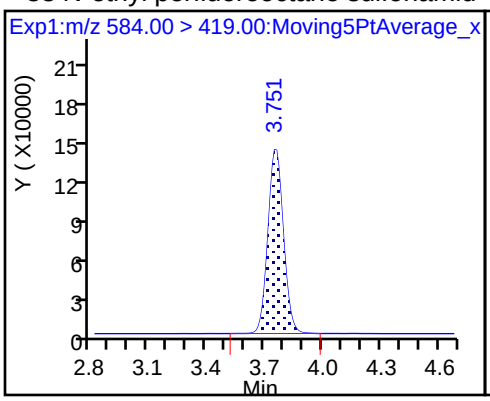
D 32 d5-NEtFOSAA



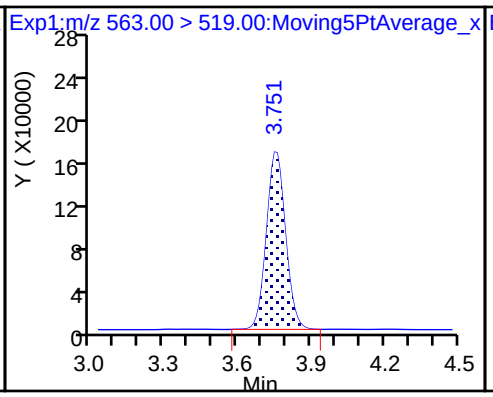
D 30 13C2 PFUnA



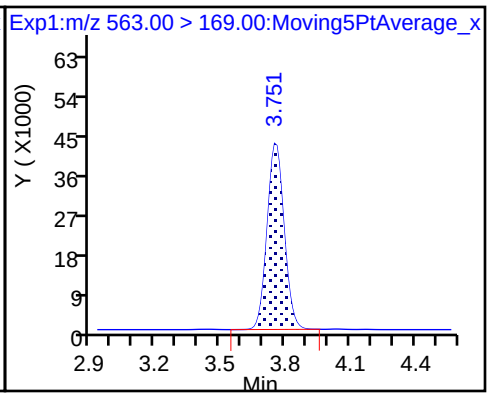
33 N-ethyl perfluorooctane sulfonamid



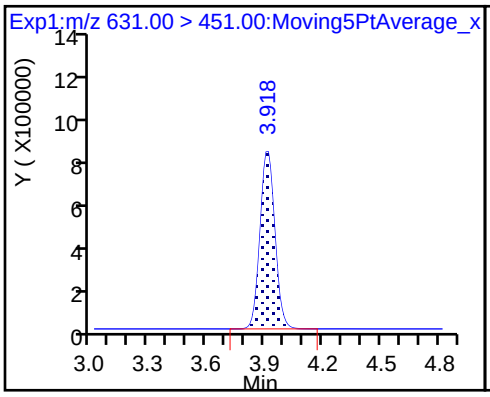
31 Perfluoroundecanoic acid



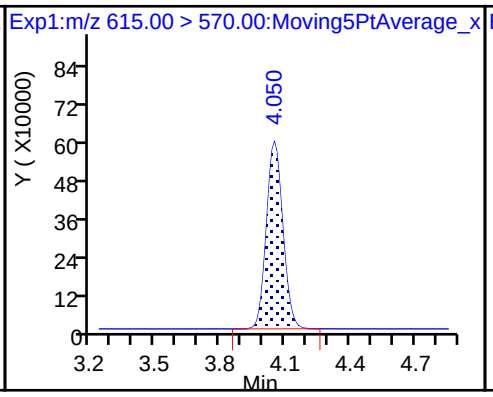
31 Perfluoroundecanoic acid



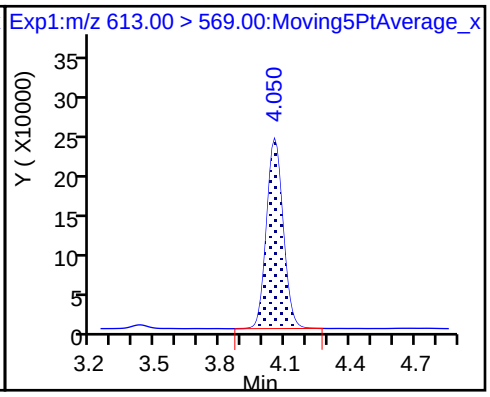
66 11-Chloroeicosafluoro-3-oxaundecan



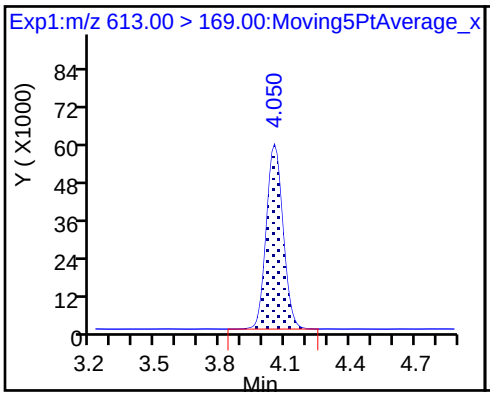
D 36 13C2 PFDoA



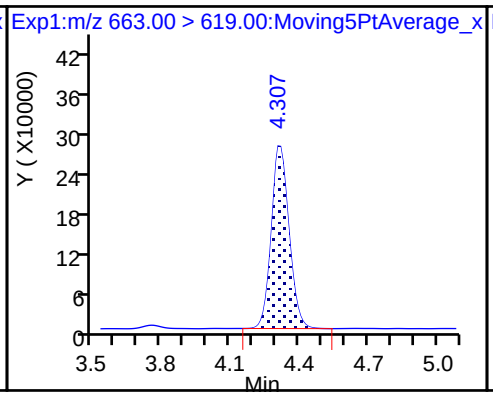
37 Perfluorododecanoic acid



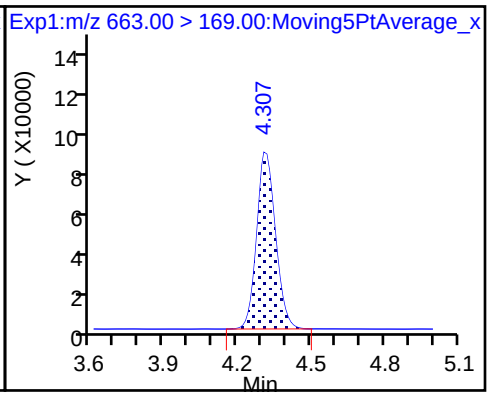
37 Perfluorododecanoic acid



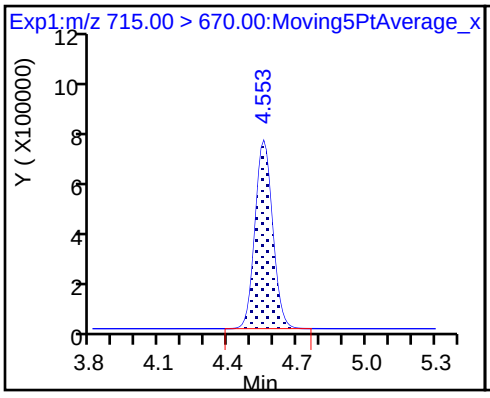
41 Perfluorotridecanoic acid



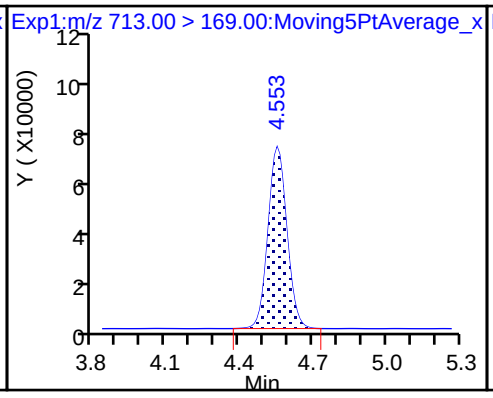
41 Perfluorotridecanoic acid



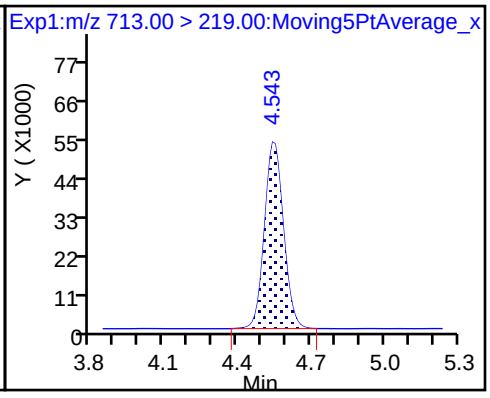
D 43 13C2-PFTeDA



42 Perfluorotetradecanoic acid



42 Perfluorotetradecanoic acid



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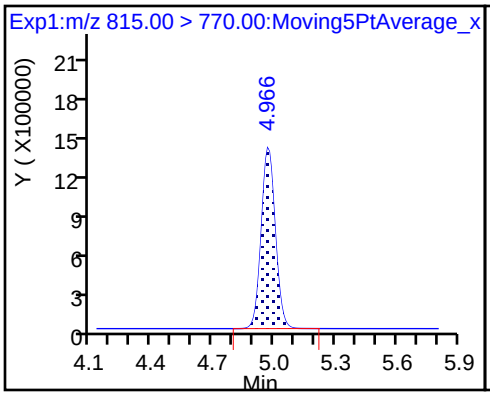
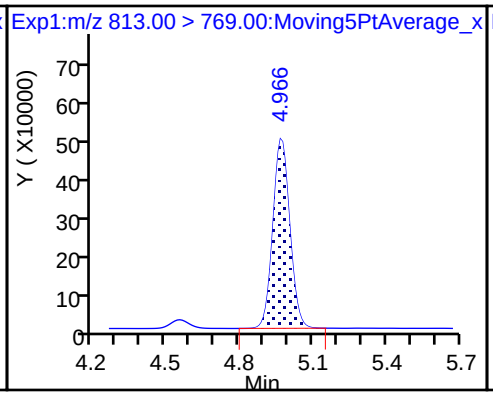
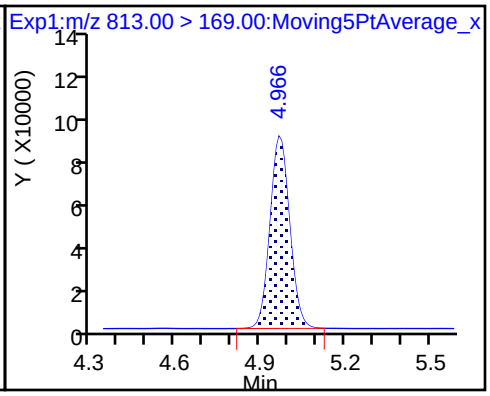


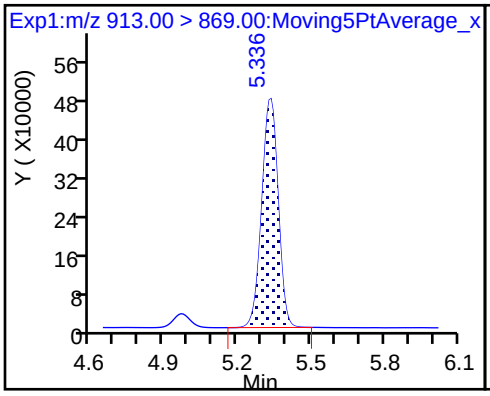
45 Perfluorohexadecanoic acid



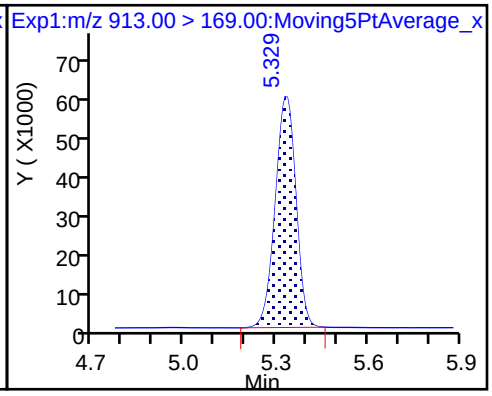
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215776/7 Calibration Date: 03/30/2018 18:47

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZAG_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.9387		2.54	2.50	1.6	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.196		2.50	2.50	-0.1	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	80.48		2.25	2.21	2.0	50.0
4:2 FTS	AveID	17.26	17.83		2.41	2.34	3.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	0.9928		2.43	2.50	-3.0	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	71.20	75.71		2.49	2.35	6.3	50.0
HFPO-DA (GenX)	AveID	3.401	3.750		2.76	2.50	10.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.075		2.47	2.50	-1.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.073		2.19	2.28	-3.9	40.0
Adona	AveID	3.564	3.621		2.54	2.50	1.6	50.0
6:2FTS	AveID	1.868	1.641		2.08	2.37	-12.1	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.157		2.44	2.50	-2.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.359		2.43	2.38	2.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.067		2.59	2.50	3.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.091		2.22	2.32	-4.5	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.915		2.39	2.33	2.4	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	1.040		2.63	2.50	5.3	40.0
8:2FTS	AveID	1.349	1.210		2.15	2.40	-10.3	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8018	0.7983		2.39	2.40	-0.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	1.035		2.62	2.50	4.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.053		2.50	2.50	-0.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6989		2.43	2.41	0.7	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9795		2.67	2.50	6.8	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.8539		2.66	2.50	6.4	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.979		2.42	2.36	2.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.046		2.42	2.50	-3.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.194		2.58	2.50	3.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2497		2.50	2.50	-0.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9569		2.51	2.50	0.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-215776/7 Calibration Date: 03/30/2018 18:47

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.03.30LLBXZAG_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.9597		2.42	2.50	-3.3	50.0
13C4 PFBA	Ave	1.382	1.444		2.61	2.50	4.5	50.0
13C5 PFPeA	Ave	0.8994	0.8908		2.48	2.50	-1.0	50.0
13C3-PFBS	Ave	0.0206	0.0208		2.35	2.33	0.9	50.0
M2-4:2FTS	Ave	0.1573	0.1568		2.33	2.34	-0.3	50.0
13C2 PFHxA	Ave	0.9916	1.028		2.59	2.50	3.7	50.0
13C3 HFPO-DA	Ave	0.0494	0.0434		2.20	2.50	-12.2	50.0
13C4-PFHpA	Ave	0.9533	0.9665		2.53	2.50	1.4	50.0
18O2 PFHxS	Ave	1.189	1.202		2.39	2.37	1.1	50.0
M2-6:2FTS	Ave	0.2203	0.2367		2.55	2.38	7.4	40.0
13C4 PFOA	Ave	0.9372	0.9326		2.49	2.50	-0.5	50.0
13C4 PFOS	Ave	0.8257	0.8664		2.51	2.39	4.9	50.0
13C5 PFNA	Ave	0.7930	0.8171		2.58	2.50	3.0	50.0
13C8 FOSA	Ave	1.166	1.085		2.33	2.50	-7.0	50.0
M2-8:2FTS	Ave	0.2562	0.2930		2.74	2.40	14.4	40.0
13C2 PFDA	Ave	0.6698	0.7173		2.68	2.50	7.1	50.0
d3-NMeFOSAA	Ave	0.3583	0.4288		2.99	2.50	19.7	50.0
13C2 PFUnA	Ave	0.5468	0.5972		2.73	2.50	9.2	50.0
d5-NEtFOSAA	Ave	0.3760	0.4602		3.06	2.50	22.4	50.0
13C2 PFDoA	Ave	0.6087	0.7310		3.00	2.50	20.1	50.0
13C2-PFTeDA	Ave	0.7733	0.9332		3.02	2.50	20.7	50.0
13C2-PFHxDA	Ave	1.194	1.338		2.80	2.50	12.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_045.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 30-Mar-2018 18:47:55 ALS Bottle#: 14 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:27 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:07:38

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.441	1.435	0.006	1.000	6270556	2.61		105	48338	
2 Perfluorobutyric acid										
212.90 > 169.00	1.441	1.441	0.0	1.000	5886216	2.54		102	1806	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.701	0.002	0.556	3867023	2.48		99.0	73247	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.703	0.0	1.000	4623575	2.50		99.9	2800	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.737	0.002	1.000	83873	2.34		101	719	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.739	0.0	1.000	6415848	2.25		102	3111	
298.90 > 99.00	1.739	1.739	0.0	1.000	2691072		2.38(1.25-3.74)		2849	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.948	0.012	1.000	635662	2.33		99.7	6981	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.960	1.960	0.0	1.000	1501619	2.41		103	66574	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.002	1.000	4463843	2.59		104	129581	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.993	0.0	1.000	4431530	2.43		97.0	5807	
313.00 > 119.00	1.993	1.993	0.0	1.000	405551		10.93(5.03-15.10)		4126	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.016	0.0	1.000	6404849	2.49		106	79162	
349.00 > 99.00	2.016	2.016	0.0	1.000	2300896		2.78(1.36-4.07)		24747	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	1.000	188312	2.20		87.8	4639	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	706219	2.76		110	4900	
D 9 13C4-PFHpA										
367.00 > 322.00	2.334	2.319	0.015	1.000	4195764	2.53		101	84768	
D 11 18O2 PFHxS										
403.00 > 84.00	2.347	2.332	0.015	1.000	4935823	2.39		101	62278	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.334	2.334	0.0	1.000	4509324	2.47		98.9	3456	
363.00 > 169.00	2.334	2.334	0.0	1.000	1656626		2.72(1.13-3.40)		4245	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.347	2.347	0.0	1.000	5093723	2.19		96.1	14757	
399.00 > 99.00	2.347	2.347	0.0	1.000	1685196		3.02(1.50-4.49)		6884	
65 Adona										
377.00 > 251.00	2.372	2.372	0.0	1.000	13619318	2.54		102	114727	
377.00 > 85.00	2.372	2.372	0.0	1.000	8162123		1.67(0.84-2.53)		91971	
D 12 M2-6:2FTS										
429.00 > 81.00	2.667	2.655	0.012	1.000	976096	2.55		107	20834	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.667	2.667	0.0	1.000	1598266	2.08		87.9	9997	
D 14 13C4 PFOA										
417.00 > 372.00	2.690	2.685	0.005	1.000	4048589	2.49		99.5	78414	
* 62 13C2-PFOA										
415.00 > 370.00	2.690	2.690	0.0		4341323	2.50			70947	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.690	2.690	0.0	1.000	4685110	2.44		97.6	1710	
413.00 > 169.00	2.690	2.690	0.0	1.000	2530161		1.85(0.84-2.52)		11107	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.697	2.697	0.0	1.000	4867834	2.43		102	46367	
449.00 > 99.00	2.697	2.697	0.0	1.000	1308455		3.72(1.94-5.82)		23454	
D 18 13C4 PFOS										
503.00 > 80.00	3.063	3.051	0.012	1.000	3595854	2.51		105	34656	
D 19 13C5 PFNA										
468.00 > 423.00	3.063	3.051	0.012	1.000	3547257	2.58		103	51330	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.063	3.063	0.0	1.000	3807518	2.21		95.5	6942	
499.00 > 99.00	3.063	3.063	0.0	1.000	852179		4.47(2.31-6.93)		5285	
20 Perfluorononanoic acid										
463.00 > 419.00	3.063	3.063	0.0	1.000	3785747	2.59		104	6580	
463.00 > 169.00	3.063	3.063	0.0	1.000	940821		4.02(1.90-5.69)		26040	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.270	3.270	0.0	1.000	6711863	2.39		102	42897	
D 21 13C8 FOSA										
506.00 > 78.00	3.394	3.388	0.006	1.000	4710567	2.33		93.0	61783	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.394	3.394	0.0	1.000	4898106	2.63		105	79511	
D 26 M2-8:2FTS										
529.00 > 81.00	3.413	3.407	0.006	1.000	1218577	2.74		114	18119	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.413	3.413	0.0	1.000	2882483	2.39		99.6	43707	
549.00 > 99.00	3.413	3.413	0.0	1.000	1124452		2.56(1.33-3.97)		27858	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.413	3.413	0.0	1.000	1474215	2.15		89.7	35881	
D 23 13C2 PFDA										
515.00 > 470.00	3.422	3.416	0.006	1.000	3113952	2.68		107	67833	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.422	3.422	0.0	1.000	3223237	2.62		105	11813	
513.00 > 169.00	3.422	3.422	0.0	1.000	555760		5.80(2.36-7.09)		12182	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.571	3.574	-0.003	1.000	1861605	2.99		120	38702	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.582	3.582	0.0	1.003	1960575	2.50		99.9	15239	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.736	3.736	0.0	1.000	2534306	2.43		101	19492	
599.00 > 99.00	3.736	3.736	0.0	1.000	865491		2.93(1.39-4.16)		5529	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.747	3.740	0.007	1.000	1997752	3.06		122	17775	
D 30 13C2 PFUnA										
565.00 > 520.00	3.747	3.750	-0.003	1.000	2592537	2.73		109	42428	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.758	0.0	1.003	1956777	2.67		107	25071	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.758	3.758	0.0	1.003	2213835	2.66		106	7821	
563.00 > 169.00	3.758	3.758	0.0	1.003	553351		4.00(2.12-6.36)		16555	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.905	3.905	0.0	1.000	10554799	2.42		103	94252	
D 36 13C2 PFDoA										
615.00 > 570.00	4.048	4.040	0.008	1.000	3173494	3.00		120	25302	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.048	4.048	0.0	1.000	3320384	2.42		96.8	2456	
613.00 > 169.00	4.048	4.048	0.0	1.000	823265		4.03(2.13-6.40)		12967	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.306	4.306	0.0	1.000	3790094	2.58		103	2321	
663.00 > 169.00	4.306	4.306	0.0	1.000	1204286		3.15(1.25-3.76)		8715	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.552	4.544	0.008	1.000	4051125	3.02		121	20211	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.552	4.552	0.0	1.000	1011581	2.50		100.0	7919	
713.00 > 219.00	4.542	4.552	-0.010	0.998	742945		1.36(0.71-2.13)		6670	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.966	4.959	0.007	1.000	5807865	2.80		112	12075	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.966	4.966	0.0	1.000	5557241	2.51		100	1626	
813.00 > 169.00	4.966	4.966	0.0	1.000	927422		5.99(2.86-8.58)		4036	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.328	5.328	0.0	1.000	5573894	2.42		96.7	1609	
913.00 > 169.00	5.328	5.328	0.0	1.000	701565		7.94(3.83-11.48)		2790	

Reagents:

LCPFC_LL5_00004 Amount Added: 1.00 Units: mL

Report Date: 07-Apr-2018 11:36:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_045.d

Injection Date: 30-Mar-2018 18:47:55 Instrument ID: A8_N

Lims ID: CCV L5

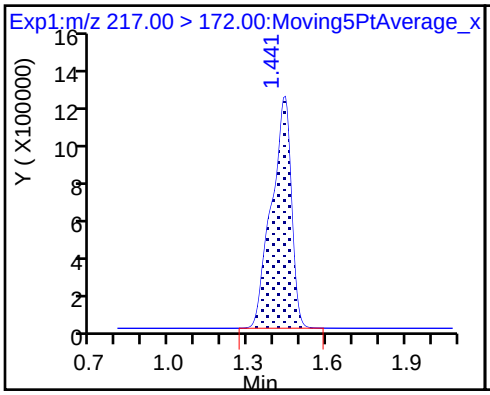
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 7

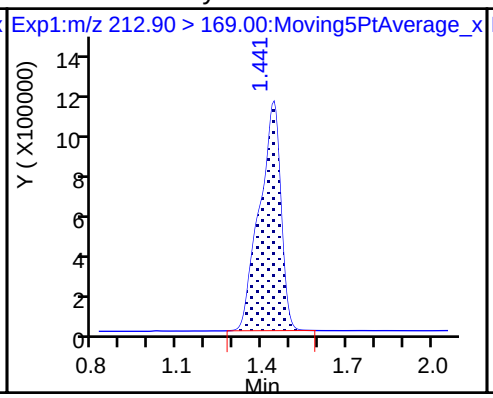
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

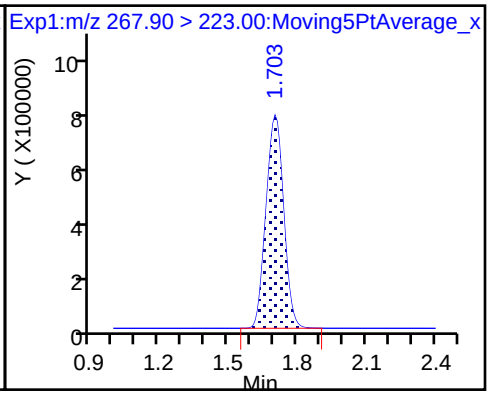
D 1 13C4 PFBA



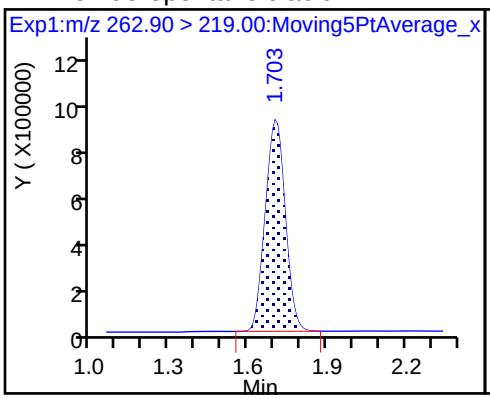
2 Perfluorobutyric acid



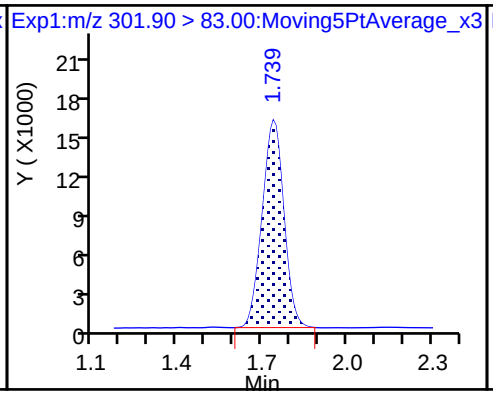
D 3 13C5-PFPeA



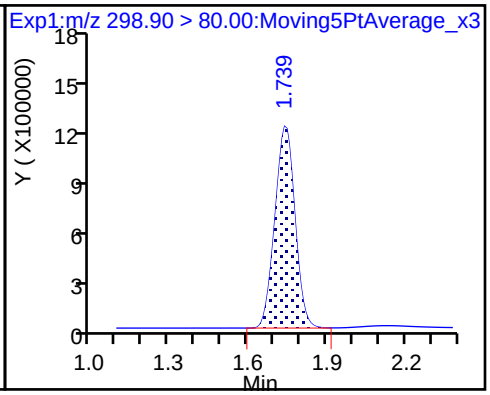
4 Perfluoropentanoic acid



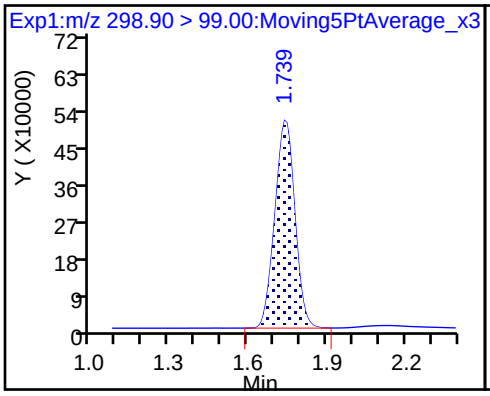
D 47 13C3-PFBS



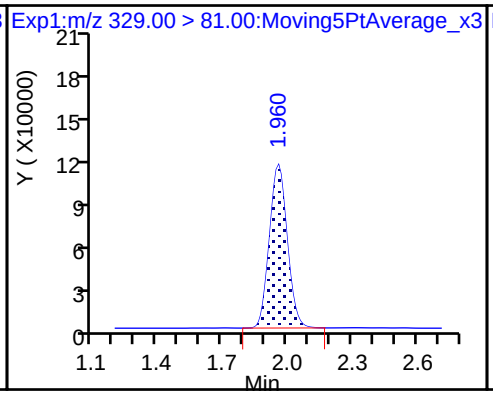
5 Perfluorobutanesulfonic acid



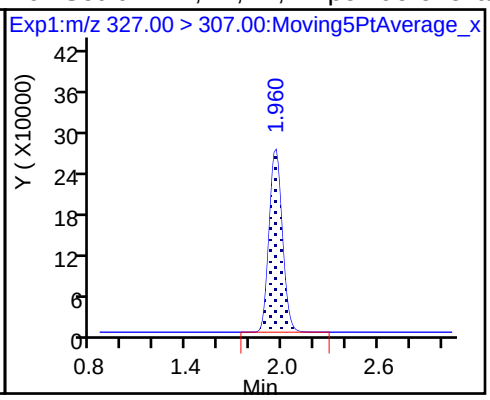
5 Perfluorobutanesulfonic acid



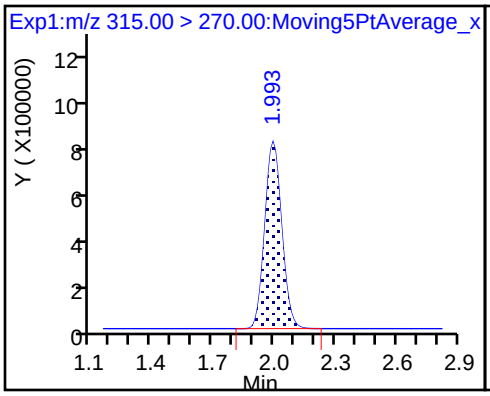
D 60 M2-4:2FTS



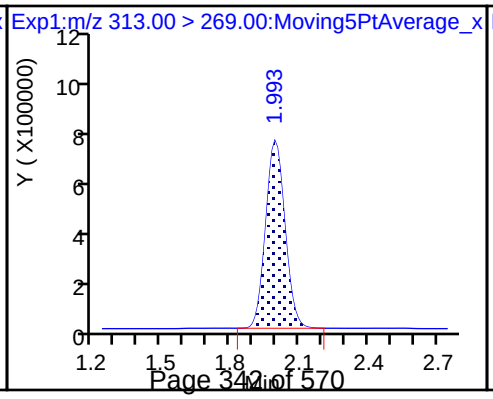
61 Sodium 1H,1H,2H,2H-perfluorohexane



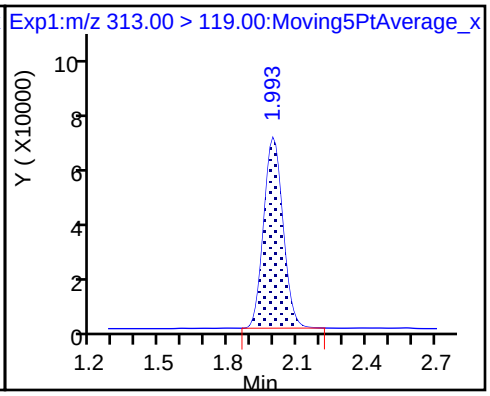
D 7 13C2 PFHxA



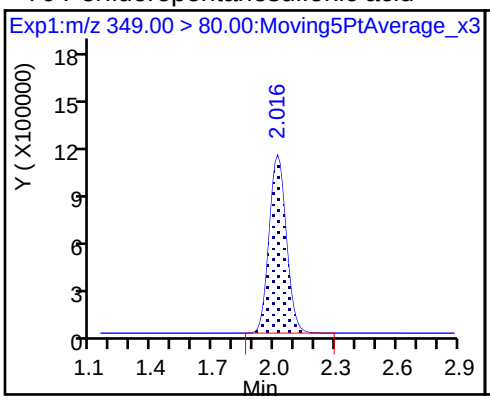
6 Perfluorohexanoic acid



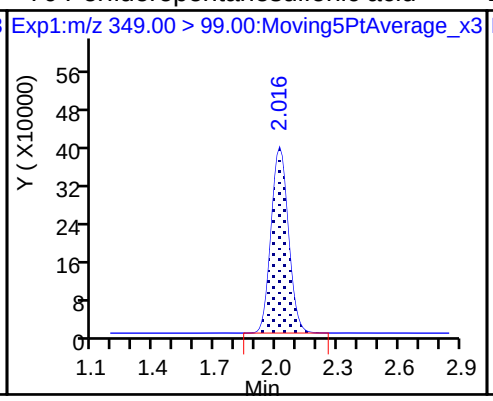
6 Perfluorohexanoic acid



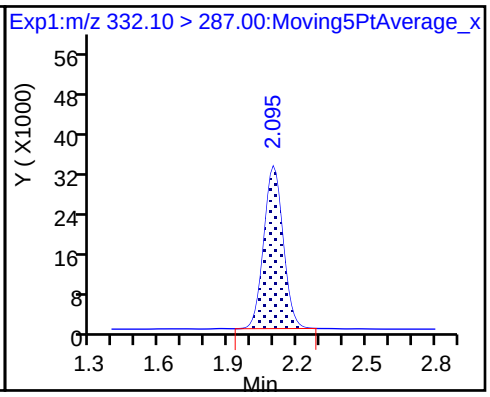
70 Perfluoropentanesulfonic acid



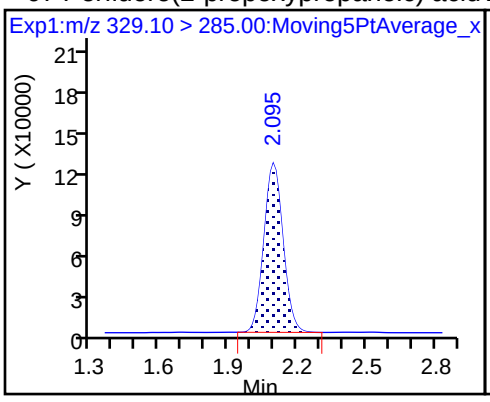
70 Perfluoropentanesulfonic acid



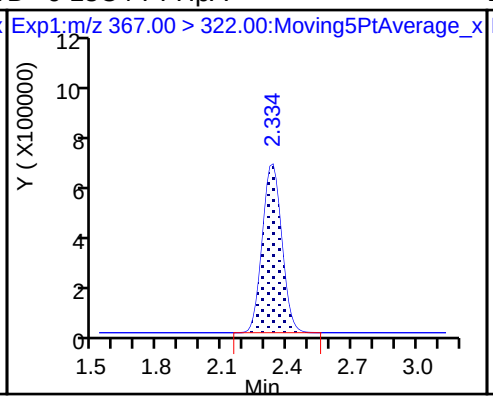
D 64 13C3 HFPO-DA



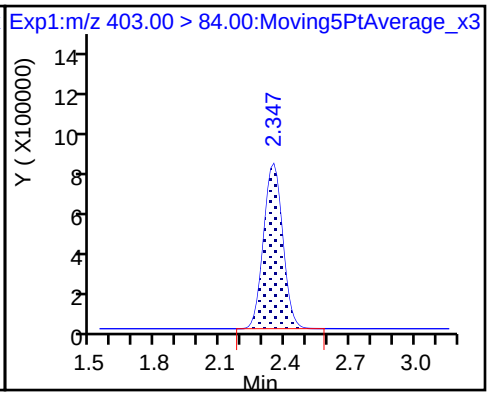
67 Perfluoro(2-propoxypropanoic) acid



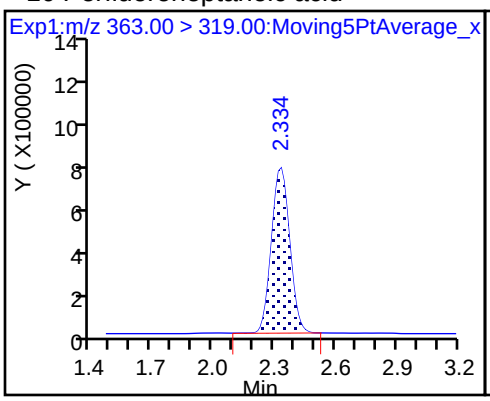
D 9 13C4-PFHpA



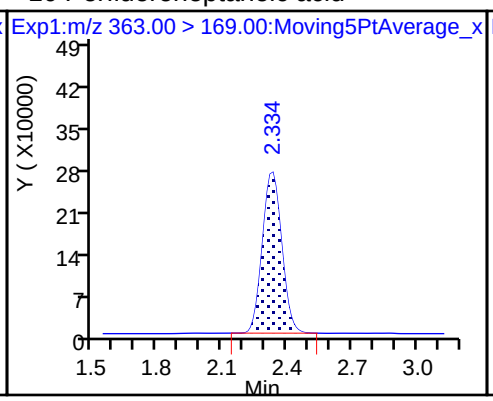
D 11 18O2 PFHxS



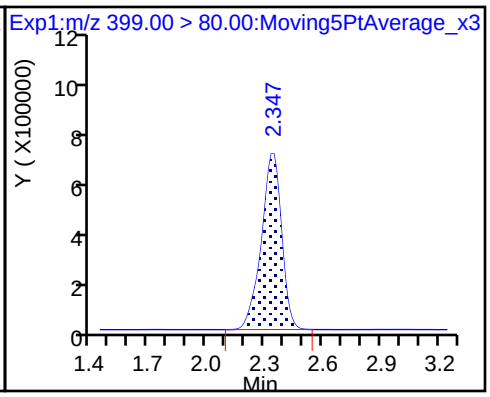
10 Perfluoroheptanoic acid



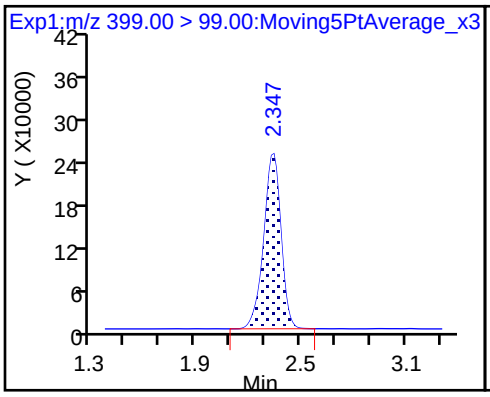
10 Perfluoroheptanoic acid



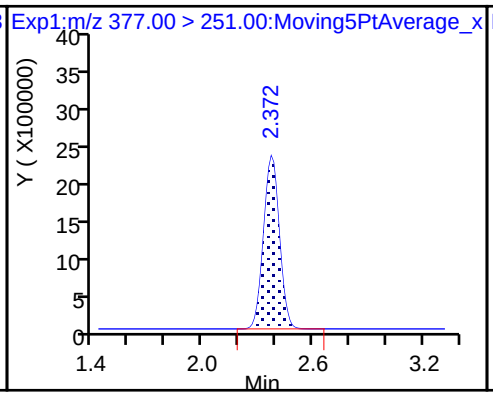
8 Perfluorohexanesulfonic acid



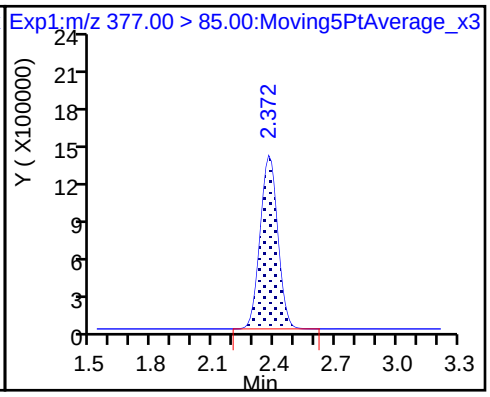
8 Perfluorohexanesulfonic acid



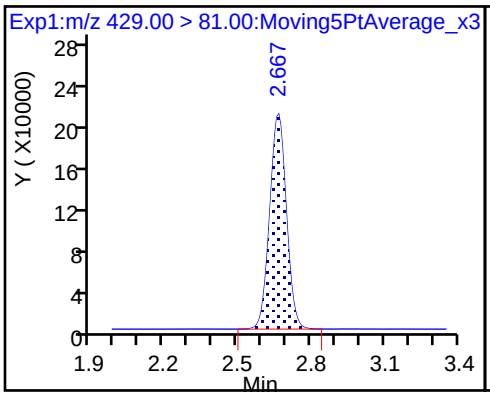
65 Adona



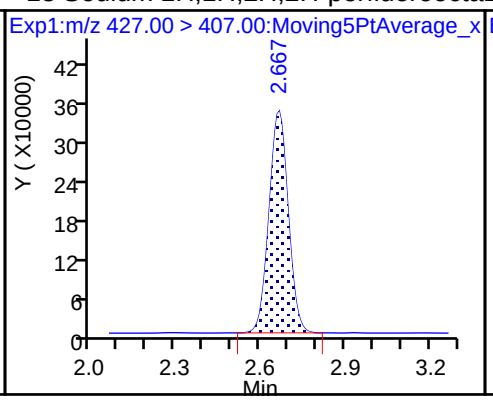
65 Adona



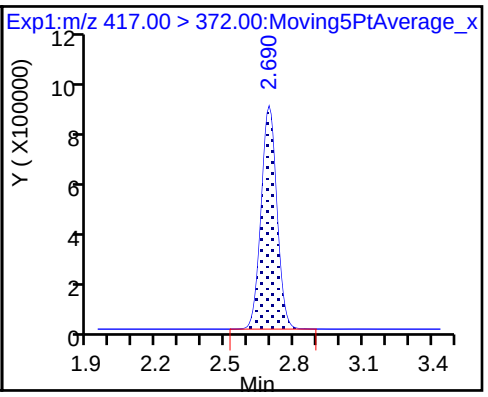
D 12 M2-6:2FTS



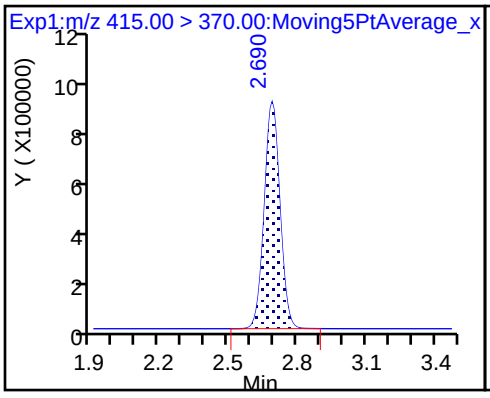
13 Sodium 1H,1H,2H,2H-perfluorooctane



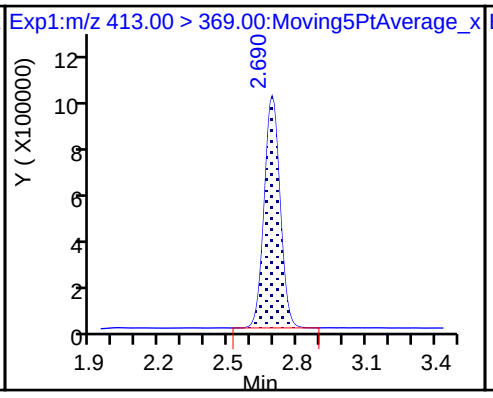
D 14 13C4 PFOA



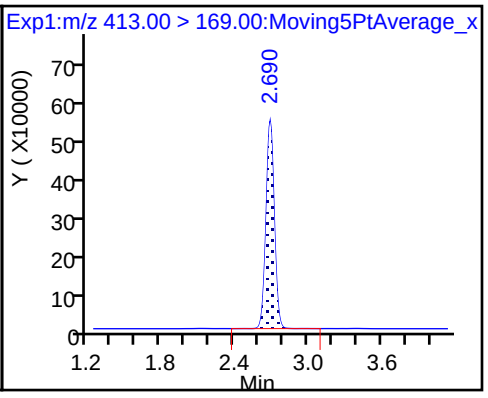
* 62 13C2-PFOA



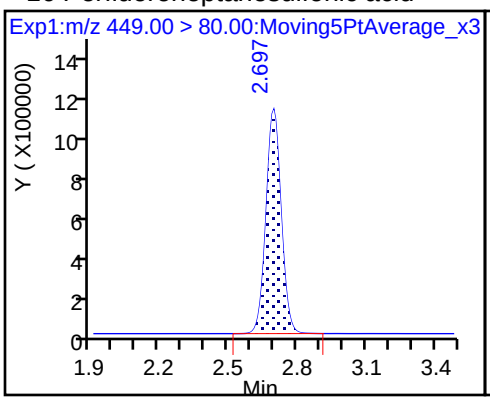
15 Perfluorooctanoic acid



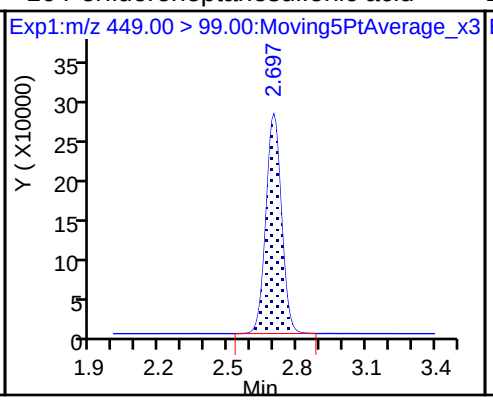
15 Perfluorooctanoic acid



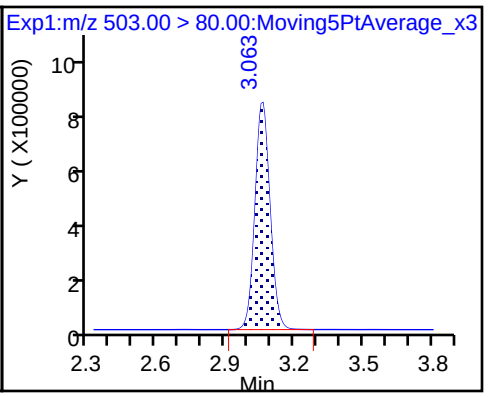
16 Perfluoroheptanesulfonic acid



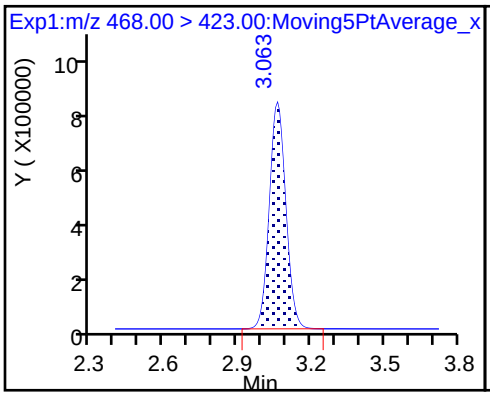
16 Perfluoroheptanesulfonic acid



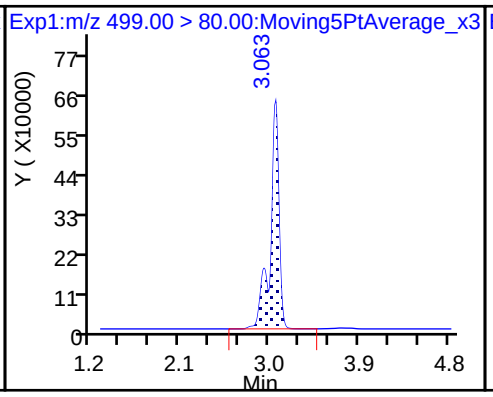
D 18 13C4 PFOS



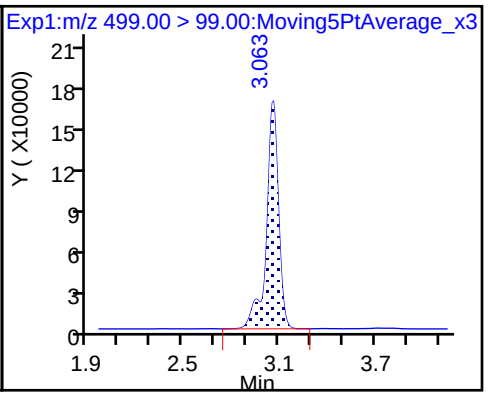
D 19 13C5 PFNA



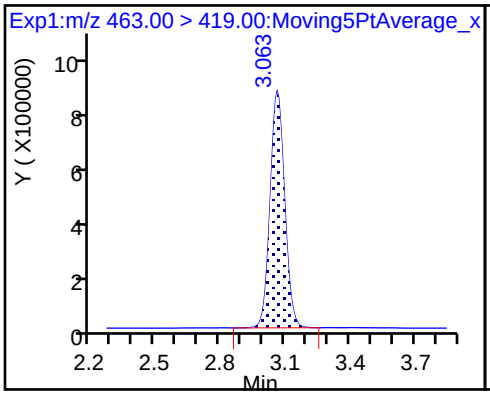
17 Perfluorooctane sulfonic acid



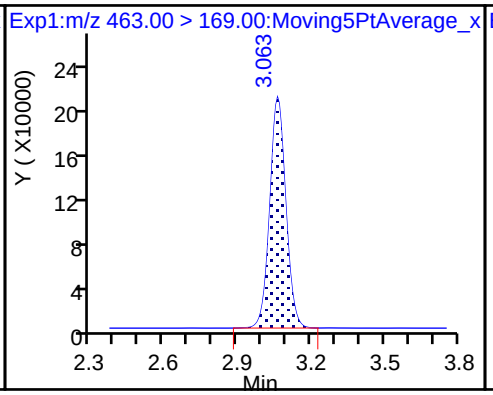
17 Perfluorooctane sulfonic acid



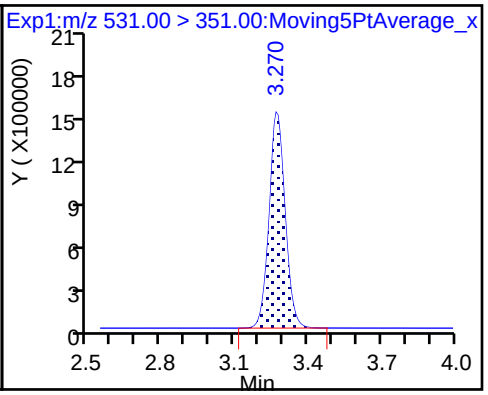
20 Perfluorononanoic acid



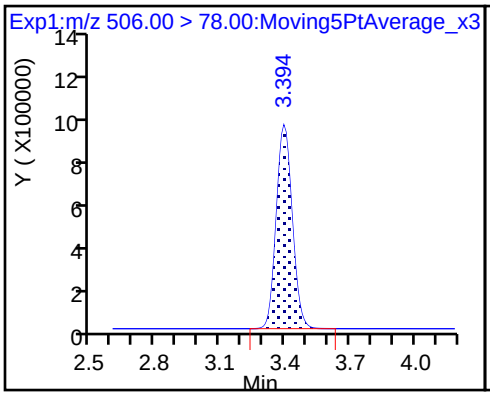
20 Perfluorononanoic acid



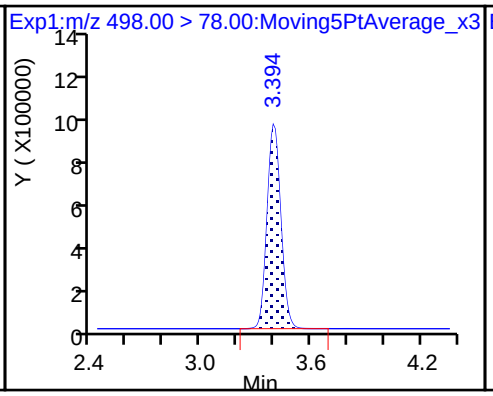
69 9-Chlorohexadecafluoro-3-oxanonane



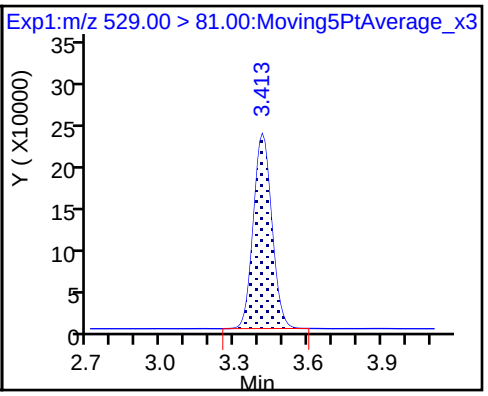
D 21 13C8 FOSA



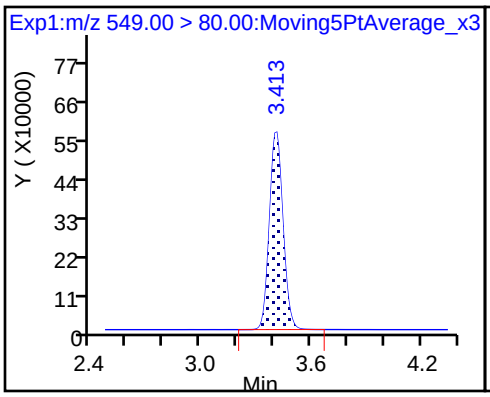
22 Perfluorooctane Sulfonamide



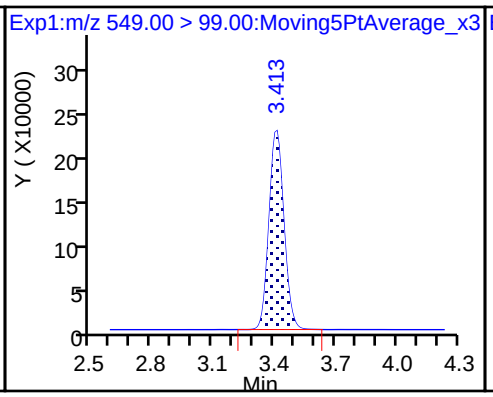
D 26 M2-8:2FTS



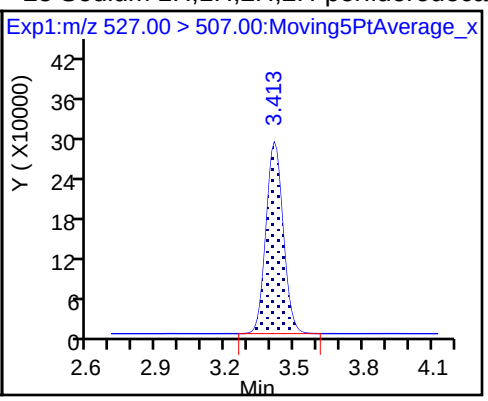
68 Perfluorononanesulfonic acid



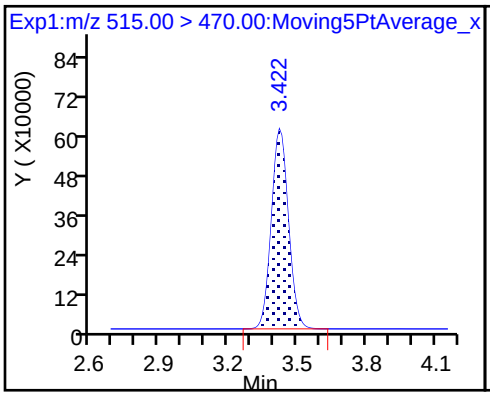
68 Perfluorononanesulfonic acid



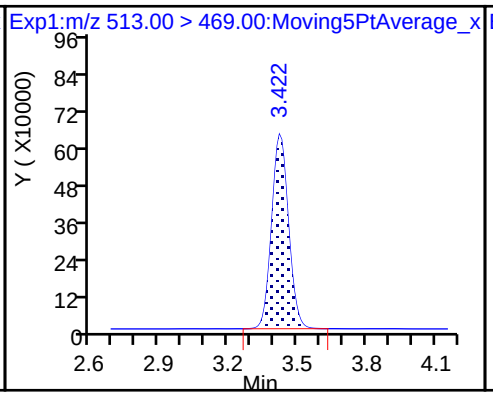
25 Sodium 1H,1H,2H,2H-perfluorodecane



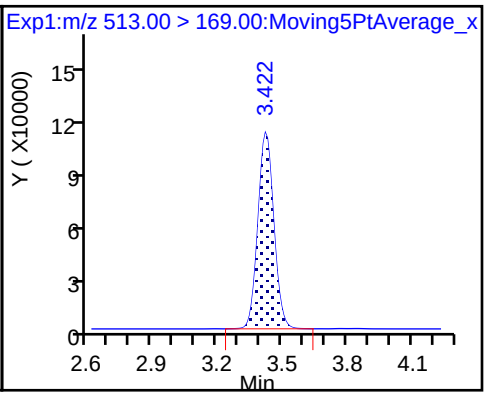
D 23 13C2 PFDA



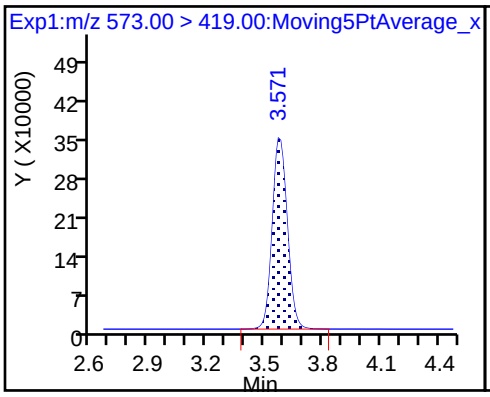
24 Perfluorodecanoic acid



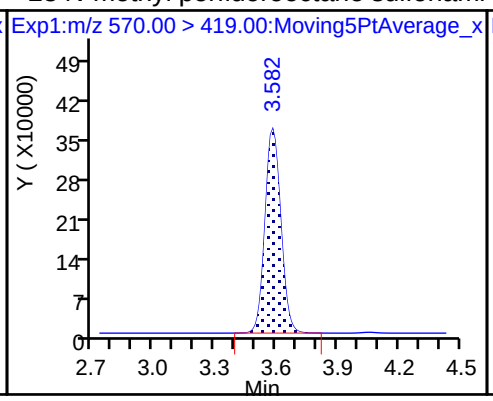
24 Perfluorodecanoic acid



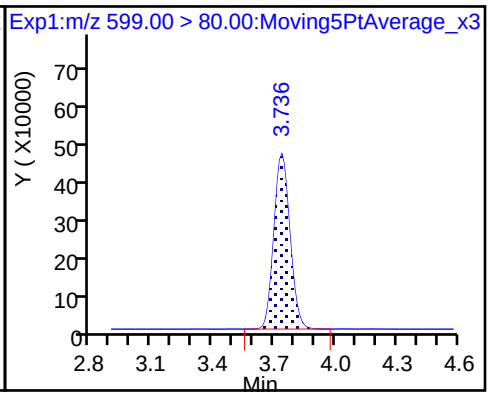
D 27 d3-NMeFOSAA



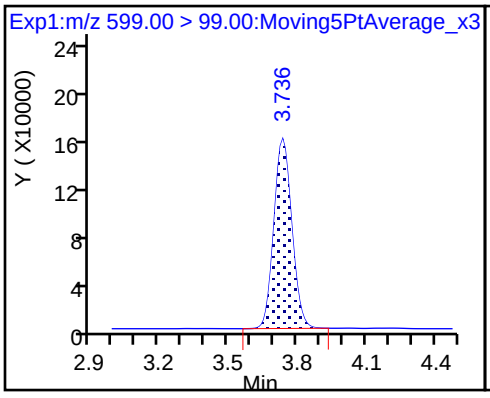
28 N-methyl perfluorooctane sulfonami



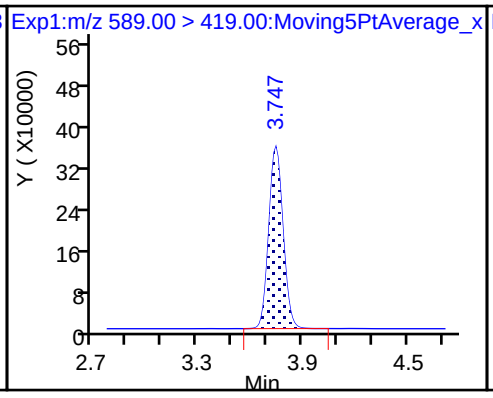
29 Perfluorodecane Sulfonic acid



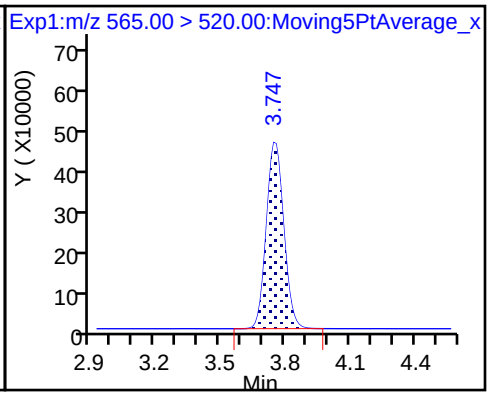
29 Perfluorodecane Sulfonic acid



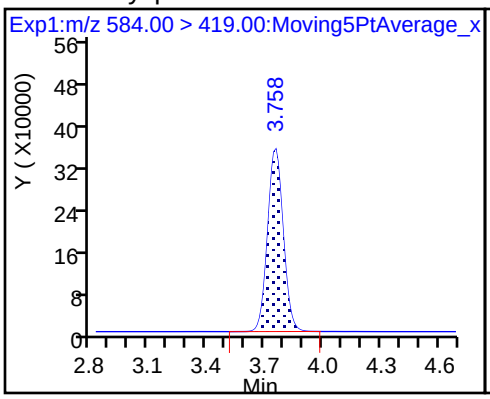
D 32 d5-NEtFOSAA



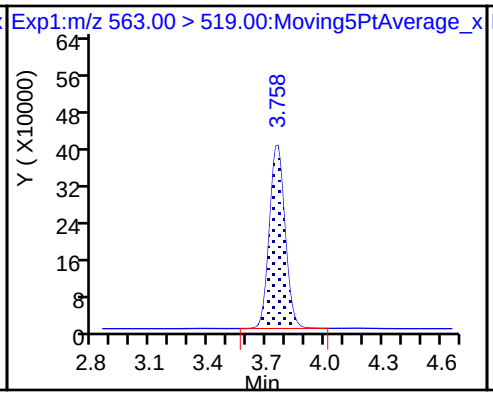
D 30 13C2 PFUnA



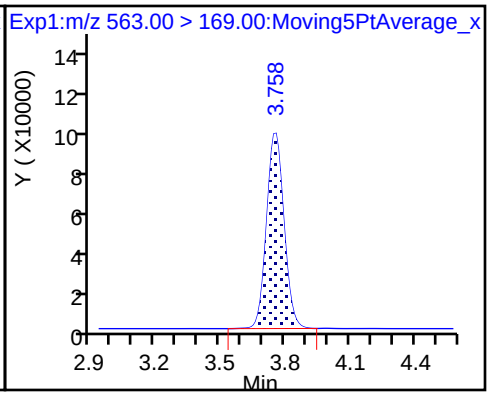
33 N-ethyl perfluorooctane sulfonamid



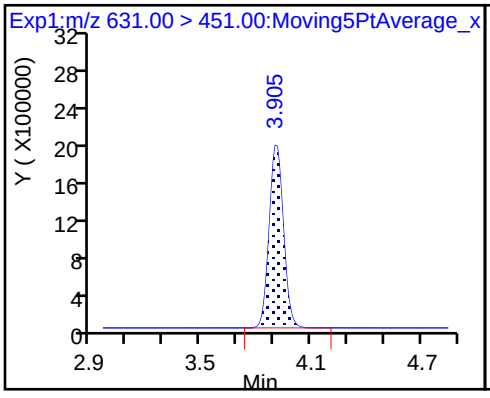
31 Perfluoroundecanoic acid



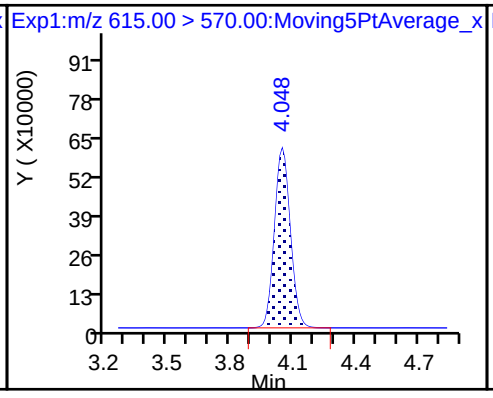
31 Perfluoroundecanoic acid



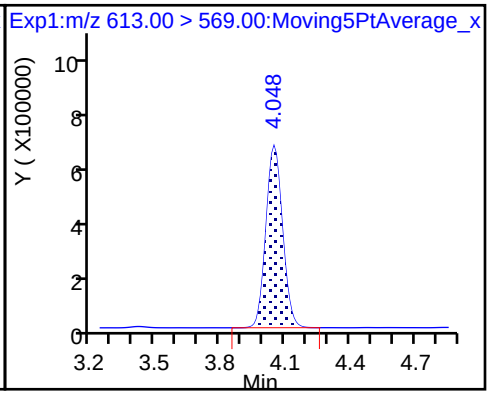
66 11-Chloroeicosafluoro-3-oxaundecan



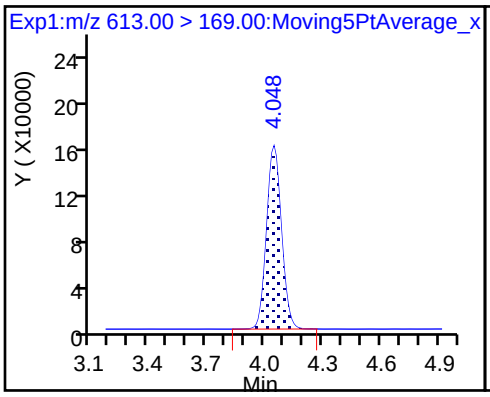
D 36 13C2 PFDoA



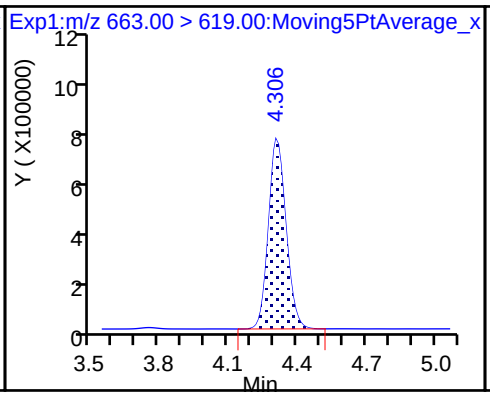
37 Perfluorododecanoic acid



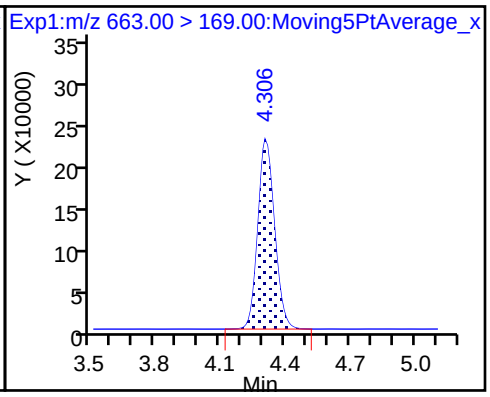
37 Perfluorododecanoic acid



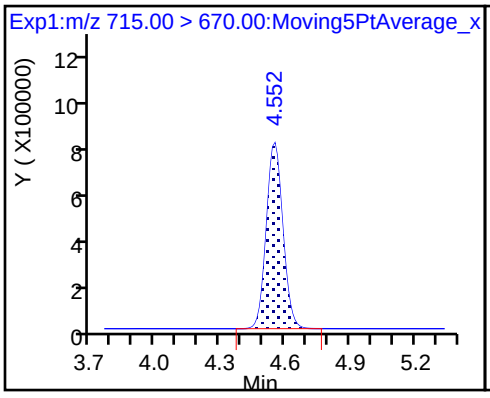
41 Perfluorotridecanoic acid



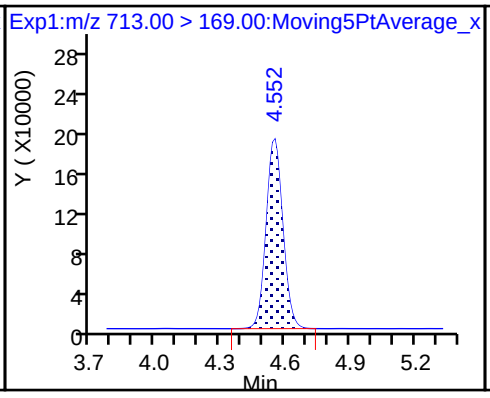
41 Perfluorotridecanoic acid



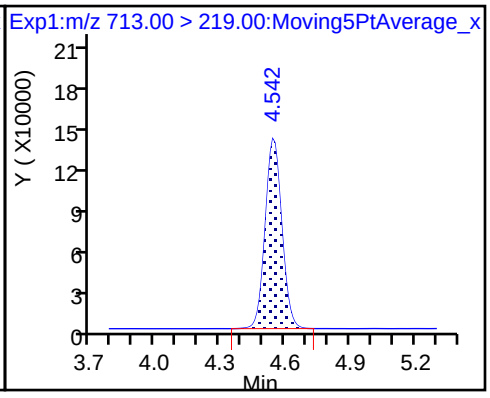
D 43 13C2-PFTeDA



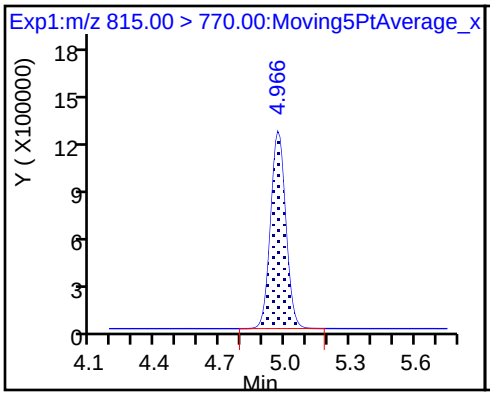
42 Perfluorotetradecanoic acid



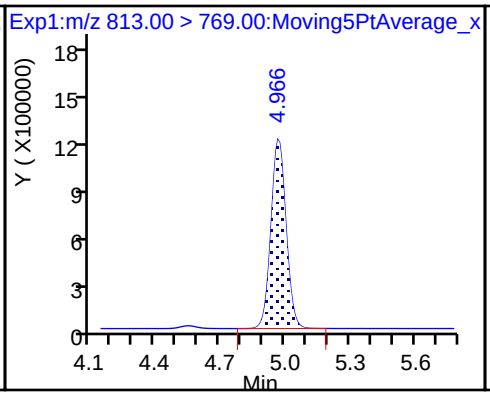
42 Perfluorotetradecanoic acid



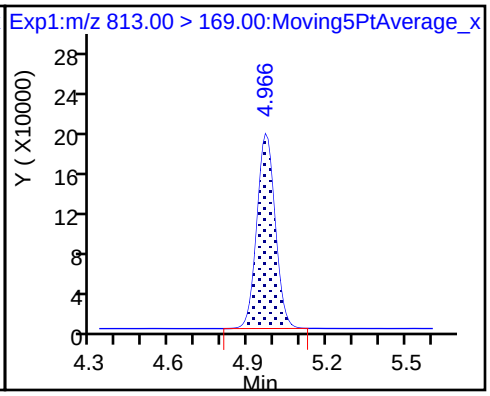
D 44 13C2-PFHxDA



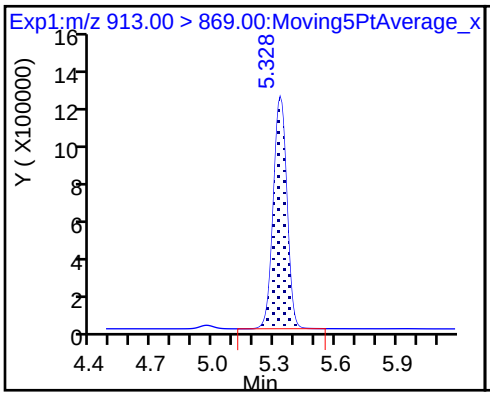
45 Perfluorohexadecanoic acid



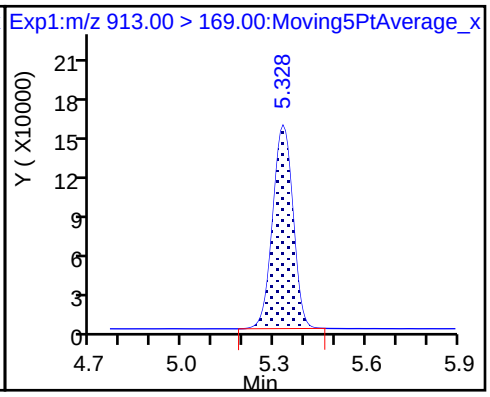
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-216698/2 Calibration Date: 04/06/2018 13:52

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_004.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.9912		0.0536	0.0500	7.3	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.216		0.0508	0.0500	1.6	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	82.30		0.0461	0.0442	4.3	50.0
4:2 FTS	AveID	17.26	18.38		0.130	0.0467	6.5	
Perfluorohexanoic acid (PFHxA)	AveID	1.023	1.022		0.0499	0.0500	-0.1	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	71.20	74.58		0.0491	0.0469	4.7	50.0
HFPO-DA (GenX)	AveID	3.401	2.822		0.0415	0.0500	-17.0	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	0.9887		0.0455	0.0500	-9.0	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.142		0.0465	0.0455	2.3	50.0
Adona	AveID	3.564	3.540		0.0497	0.0500	-0.7	50.0
6:2FTS	AveID	1.868	2.009		0.0510	0.0474	7.6	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.242		0.0444	0.0476	-6.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.260		0.0531	0.0500	6.3	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	0.9005		0.0438	0.0500	-12.5	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.115		0.0453	0.0464	-2.4	50.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.834		0.0457	0.0466	-1.9	50.0
8:2FTS	AveID	1.349	1.220		0.0500	0.0479	-9.5	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8018	0.8095		0.0485	0.0480	1.0	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	1.012		0.0512	0.0500	2.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	1.070		0.0541	0.0500	8.2	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	0.9552		0.0780	0.0500	-9.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6822		0.0474	0.0482	-1.7	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.8229		0.0480	0.0500	-10.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.9282		0.0578	0.0500	15.7	50.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.793		0.0453	0.0471	-3.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.053		0.0487	0.0500	-2.6	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.173		0.0507	0.0500	1.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2557		0.0512	0.0500	2.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.338		0.0493	0.0500	-1.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCVL 320-216698/2 Calibration Date: 04/06/2018 13:52

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_004.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.8323		0.0419	0.0500	-16.2	50.0
13C4 PFBA	Ave	1.382	1.261		2.28	2.50	-8.7	50.0
13C5 PFPeA	Ave	0.8994	0.8631		2.40	2.50	-4.0	50.0
13C3-PFBS	Ave	0.0206	0.0188		2.13	2.33	-8.6	50.0
M2-4:2FTS	Ave	0.1573	0.1514		2.25	2.34	-3.8	50.0
13C2 PFHxA	Ave	0.9916	0.9891		2.49	2.50	-0.3	50.0
13C3 HFPO-DA	Ave	0.0494	0.0546		2.77	2.50	10.6	50.0
13C4-PFHpA	Ave	0.9533	0.9665		2.54	2.50	1.4	50.0
18O2 PFHxS	Ave	1.189	1.129		2.25	2.37	-5.0	50.0
M2-6:2FTS	Ave	0.2203	0.2085		2.25	2.38	-5.3	50.0
13C4 PFOA	Ave	0.9372	0.9534		2.54	2.50	1.7	50.0
13C4 PFOS	Ave	0.8257	0.8181		2.37	2.39	-0.9	50.0
13C5 PFNA	Ave	0.7930	0.8467		2.67	2.50	6.8	50.0
13C8 FOSA	Ave	1.166	1.079		2.31	2.50	-7.5	50.0
M2-8:2FTS	Ave	0.2562	0.2855		2.67	2.40	11.4	50.0
13C2 PFDA	Ave	0.6698	0.7347		2.74	2.50	9.7	50.0
d3-NMeFOSAA	Ave	0.3583	0.4164		2.91	2.50	16.2	50.0
13C2 PFUnA	Ave	0.5468	0.6605		3.02	2.50	20.8	50.0
d5-NEtFOSAA	Ave	0.3760	0.4964		3.30	2.50	32.0	50.0
13C2 PFDoA	Ave	0.6087	0.7079		2.91	2.50	16.3	50.0
13C2-PFTeDA	Ave	0.7733	0.8712		2.82	2.50	12.7	50.0
13C2-PFHxDA	Ave	1.194	1.413		2.96	2.50	18.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_004.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 06-Apr-2018 13:52:26 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 06-Apr-2018 15:13:49 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK012

First Level Reviewer: westendorfc Date: 06-Apr-2018 15:10:11

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.430	0.0	1.004	120427	0.0536		107	53.4	
D 1 13C4 PFBA										
217.00 > 172.00	1.424	1.430	-0.006	1.000	6074598	2.28		91.3	47121	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.693	1.694	-0.001	1.000	101116	0.0508		102	61.3	
D 3 13C5-PFPeA										
267.90 > 223.00	1.693	1.694	-0.001	0.560	4157745	2.40		96.0	91652	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.729	1.730	-0.001	1.000	132001	0.0461		104	807	
298.90 > 99.00	1.729	1.730	-0.001	1.000	57967		2.28(1.25-3.74)		1011	
D 47 13C3-PFBS										
301.90 > 83.00	1.729	1.730	-0.001	1.000	84364	2.13		91.4	579	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.938	1.939	-0.001	1.000	31153	0.0498		107	1658	
D 60 M2-4:2FTS										
329.00 > 81.00	1.938	1.939	-0.001	1.000	681111	2.25		96.2	8248	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.981	1.971	0.010	1.000	97382	0.0499		99.9	181	
313.00 > 119.00	1.981	1.971	0.010	1.000	8442		11.54(5.03-15.10)		94.8	
D 7 13C2 PFHxA										
315.00 > 270.00	1.981	1.971	0.010	1.000	4764503	2.49		99.7	124173	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.003	2.004	-0.001	1.000	126923	0.0491		105	3211	
349.00 > 99.00	2.003	2.004	-0.001	1.000	42294		3.00(1.36-4.07)		1006	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.082	2.072	0.010	1.005	14856	0.0415		83.0	88.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.071	2.072	-0.001	1.000	263206	2.77		111	3694	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.306	2.308	-0.002	1.000	92067	0.0455		91.0	92.6	
363.00 > 169.00	2.293	2.308	-0.015	0.994	38470		2.39(1.13-3.40)		153	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.319	2.308	0.011	1.000	113083	0.0465		102	878	
399.00 > 99.00	2.306	2.308	-0.002	0.994	37440		3.02(1.50-4.49)		272	
D 9 13C4-PFHpA										
367.00 > 322.00	2.306	2.308	-0.002	1.000	4655989	2.53		101	94251	
D 11 18O2 PFHxS										
403.00 > 84.00	2.319	2.321	-0.002	1.000	5146377	2.25		95.0	81934	
65 Adona										
377.00 > 251.00	2.345	2.347	-0.002	1.000	279002	0.0497		99.3	5790	
377.00 > 85.00	2.345	2.347	-0.002	1.000	164296		1.70(0.84-2.53)		2947	
D 12 M2-6:2FTS										
429.00 > 81.00	2.628	2.629	-0.001	1.000	954310	2.25		94.7	23573	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.628	2.629	-0.001	1.000	38262	0.0510		108	483	
* 62 13C2-PFOA										
415.00 > 370.00	2.652	2.654	-0.002		4817174	2.50			57405	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.660	2.654	0.006	1.003	115746	0.0531		106	26.5	
413.00 > 169.00	2.652	2.654	-0.002	1.000	56950		2.03(0.84-2.52)		162	
D 14 13C4 PFOA										
417.00 > 372.00	2.652	2.660	-0.008	1.000	4592546	2.54		102	90483	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.660	2.661	-0.001	1.000	93181	0.0444		93.2	1871	
449.00 > 99.00	2.660	2.661	-0.001	1.000	25501		3.65(1.94-5.82)		701	
20 Perfluorononanoic acid										
463.00 > 419.00	3.022	3.021	0.001	1.000	73456	0.0438		87.5	114	
463.00 > 169.00	3.022	3.021	0.001	1.000	17770		4.13(1.90-5.69)		320	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.022	3.021	0.001	1.000	81570	0.0453		97.6	762	
499.00 > 99.00	3.022	3.021	0.001	1.000	16875		4.83(2.31-6.93)		293	
D 18 13C4 PFOS										
503.00 > 80.00	3.022	3.021	0.001	1.000	3767503	2.37		99.1	44836	
D 19 13C5 PFNA										
468.00 > 423.00	3.022	3.028	-0.006	1.000	4078694	2.67		107	63395	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.228	3.236	-0.008	1.000	134697	0.0457		98.1	2842	
D 21 13C8 FOSA										
506.00 > 78.00	3.366	3.356	0.010	1.000	5196369	2.31		92.5	45921	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.366	3.365	0.001	1.000	32160	0.0433		90.5	433	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.366	3.365	0.001	1.000	61254	0.0485		101	1439	
549.00 > 99.00	3.366	3.365	0.001	1.000	19440		3.15(1.33-3.97)		440	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.366	3.374	-0.008	1.000	105186	0.0512		102	3019	
D 26 M2-8:2FTS										
529.00 > 81.00	3.366	3.374	-0.008	1.000	1317530	2.67		111	31150	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.385	3.383	0.002	1.003	75757	0.0541		108	362	
513.00 > 169.00	3.385	3.383	0.002	1.003	12639		5.99(2.36-7.09)		377	
D 23 13C2 PFDA										
515.00 > 470.00	3.376	3.384	-0.008	1.000	3539283	2.74		110	73701	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.544	3.533	0.011	1.003	38320	0.0453		90.6	247	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.534	3.542	-0.008	1.000	2005949	2.91		116	40429	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.694	3.690	0.004	1.000	51833	0.0474		98.3	1282	
599.00 > 99.00	3.694	3.690	0.004	1.000	16797		3.09(1.39-4.16)		426	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.705	3.711	-0.006	1.000	39356	0.0449		89.7	567	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.705	3.711	-0.006	1.000	59069	0.0578		116	250	
563.00 > 169.00	3.705	3.711	-0.006	1.000	14685		4.02(2.12-6.36)		370	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.705	3.711	-0.006	1.000	2391286	3.30		132	20786	
D 30 13C2 PFUnA										
565.00 > 520.00	3.705	3.722	-0.017	1.000	3181793	3.02		121	50199	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.862	3.869	-0.007	1.000	207383	0.0453		96.2	4140	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.005	4.000	0.005	1.000	71821	0.0487		97.4	59.0	
613.00 > 169.00	4.005	4.000	0.005	1.000	16661		4.31(2.13-6.40)		253	
D 36 13C2 PFDoA										
615.00 > 570.00	4.005	4.011	-0.006	1.000	3409906	2.91		116	22513	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.269	4.263	0.006	1.000	80002	0.0507		101	53.5	
663.00 > 169.00	4.259	4.263	-0.004	0.998	28592		2.80(1.25-3.76)		343	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.499	4.503	-0.004	1.000	21461	0.0512		102	275	
713.00 > 219.00	4.499	4.503	-0.004	1.000	11756		1.83(0.71-2.13)		323	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.499	4.513	-0.014	1.000	4196497	2.82		113	21184	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.912	4.907	0.005	1.000	182101	0.0493		98.5	47.7	
813.00 > 169.00	4.912	4.907	0.005	1.000	25143		7.24(2.86-8.58)		242	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.912	4.933	-0.021	1.000	6805058	2.96		118	14473	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.261	5.256	0.005	1.000	113283	0.0419		83.8	25.8	
913.00 > 169.00	5.261	5.256	0.005	1.000	11913		9.51(3.83-11.48)		107	

Reagents:

LCPFC_LL2_00004 Amount Added: 1.00 Units: mL

Report Date: 06-Apr-2018 15:13:50 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_004.d

Injection Date: 06-Apr-2018 13:52:26 Instrument ID: A8_N

Lims ID: CCVL

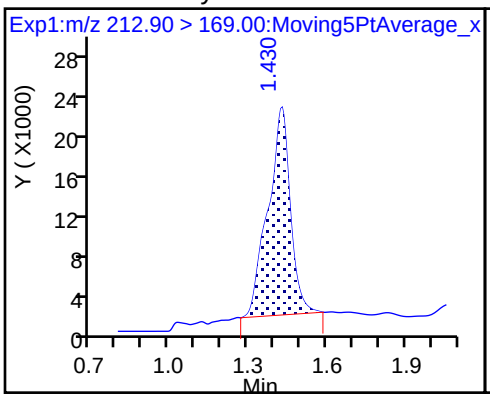
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

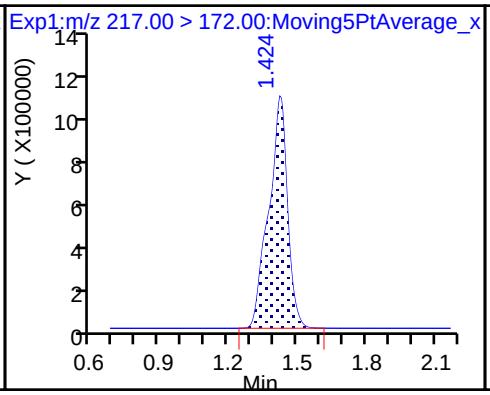
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

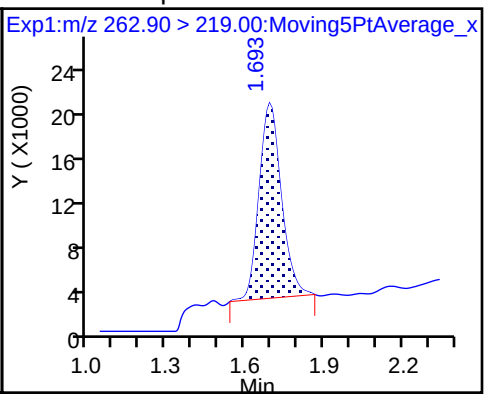
2 Perfluorobutyric acid



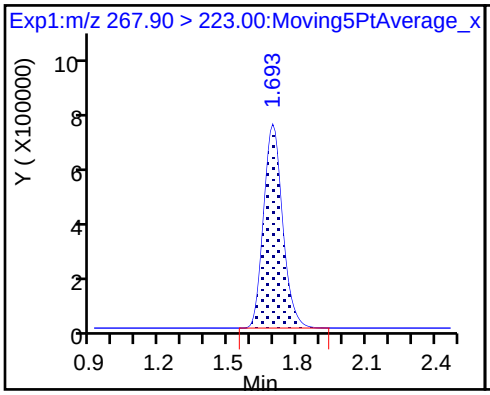
D 1 13C4 PFBA



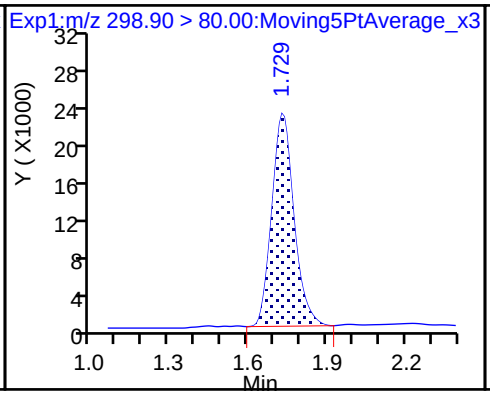
4 Perfluoropentanoic acid



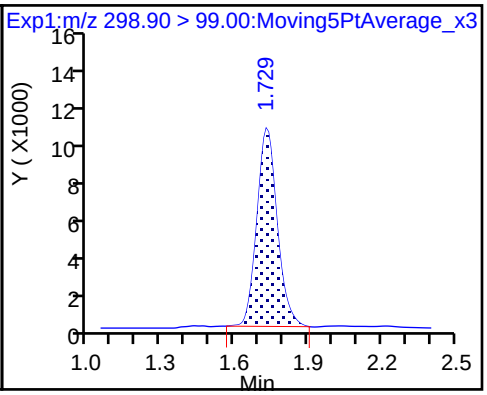
D 3 13C5-PFPeA



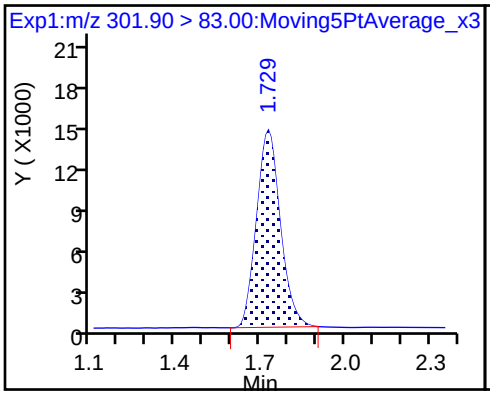
5 Perfluorobutanesulfonic acid



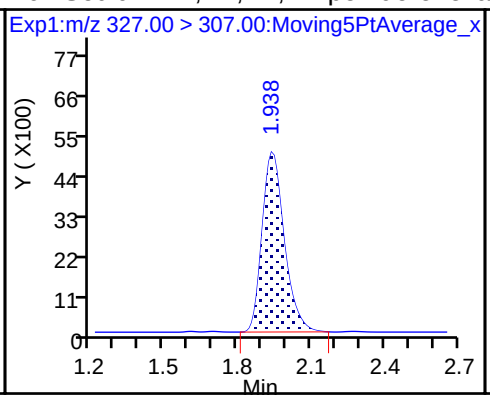
5 Perfluorobutanesulfonic acid



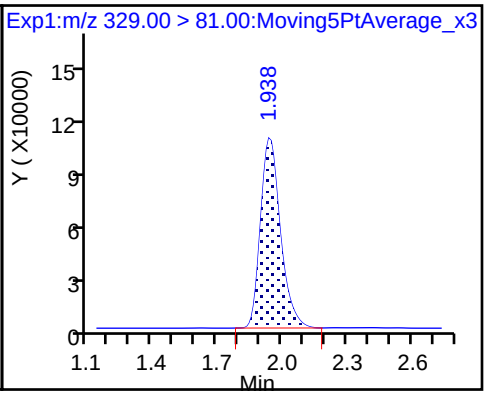
D 47 13C3-PFBS



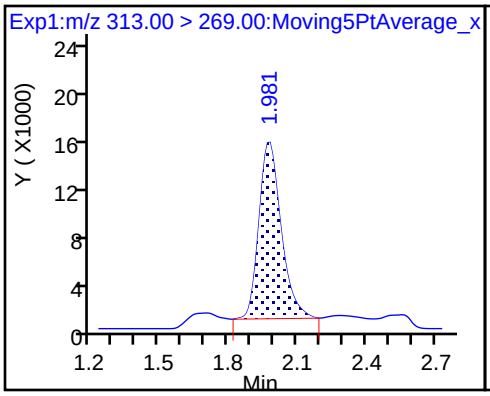
61 Sodium 1H,1H,2H,2H-perfluorohexane



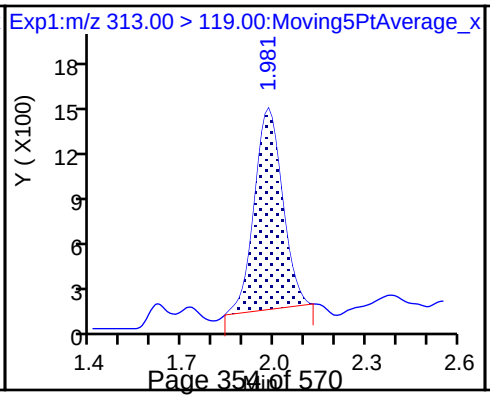
D 60 M2-4:2FTS



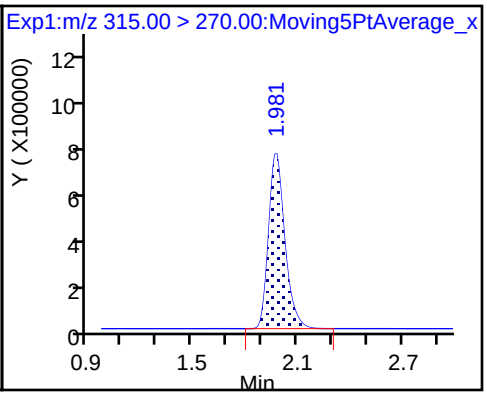
6 Perfluorohexanoic acid



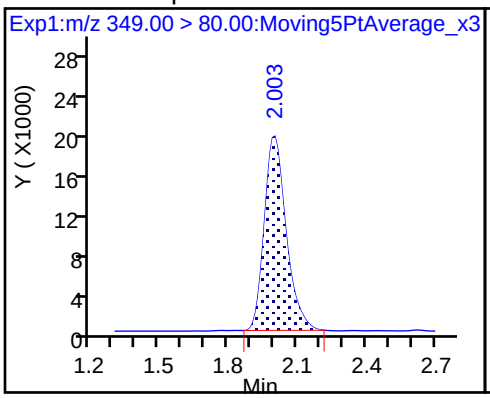
6 Perfluorohexanoic acid



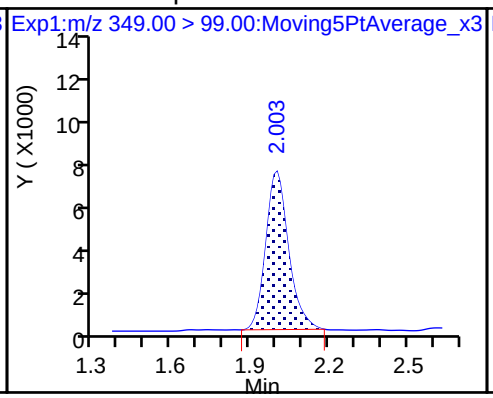
D 7 13C2 PFHxA



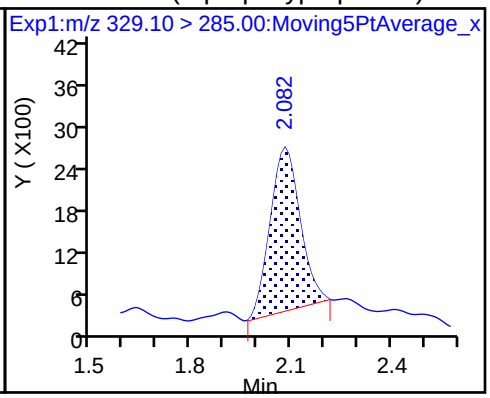
70 Perfluoropentanesulfonic acid



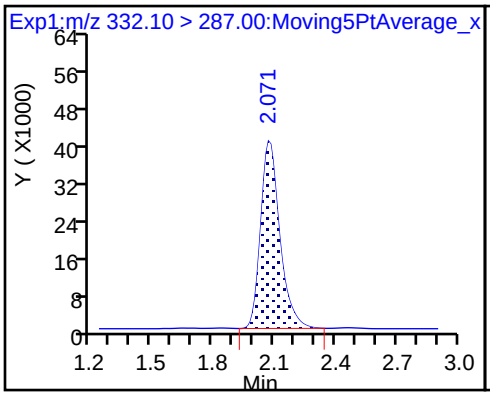
70 Perfluoropentanesulfonic acid



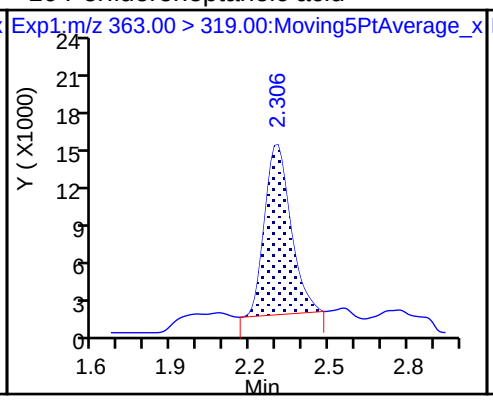
67 Perfluoro(2-propoxypropanoic) acid



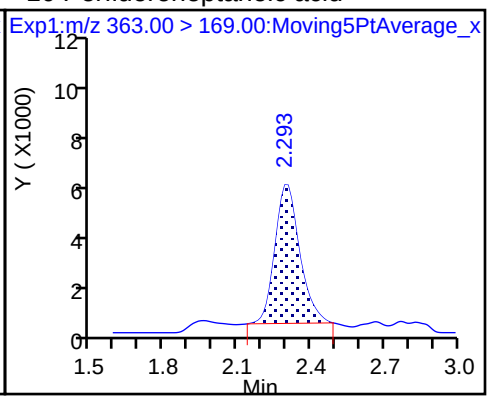
D 64 13C3 HFPO-DA



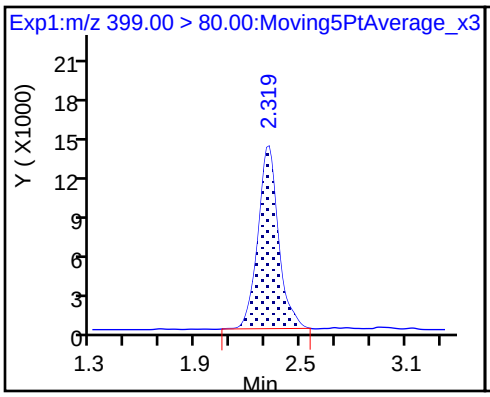
10 Perfluoroheptanoic acid



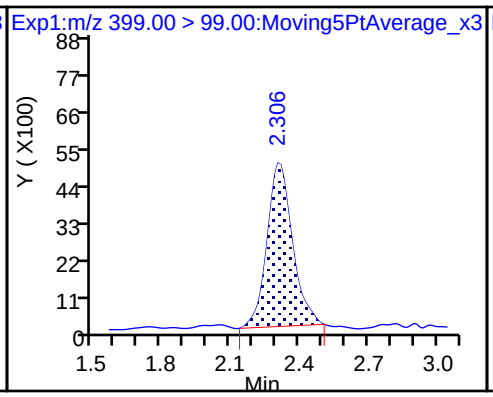
10 Perfluoroheptanoic acid



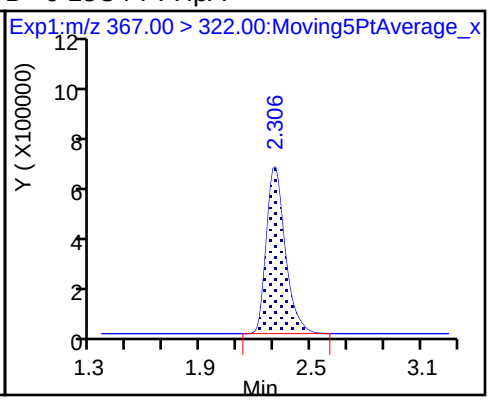
8 Perfluorohexanesulfonic acid



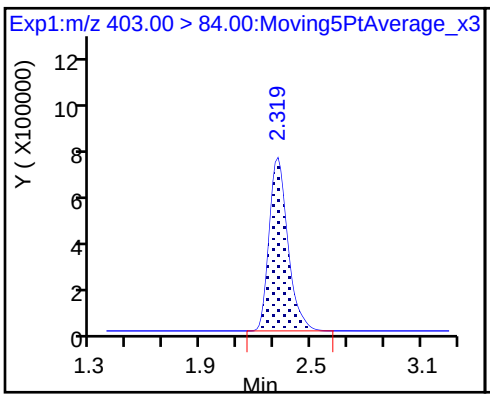
8 Perfluorohexanesulfonic acid



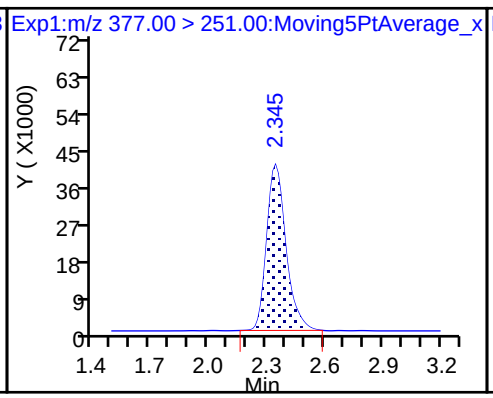
D 9 13C4-PFHpA



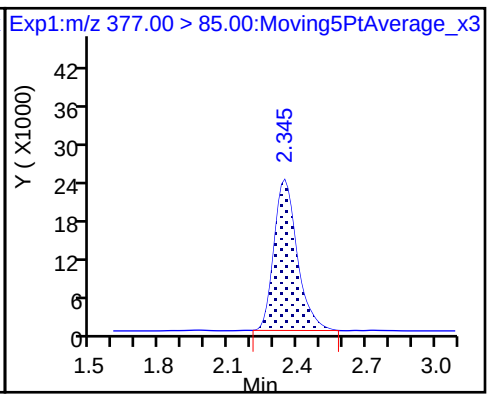
D 11 18O2 PFHxS



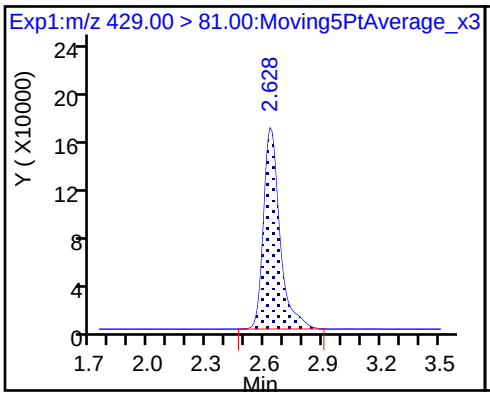
65 Adona



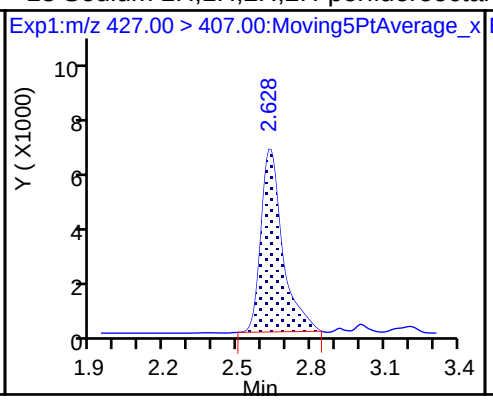
65 Adona



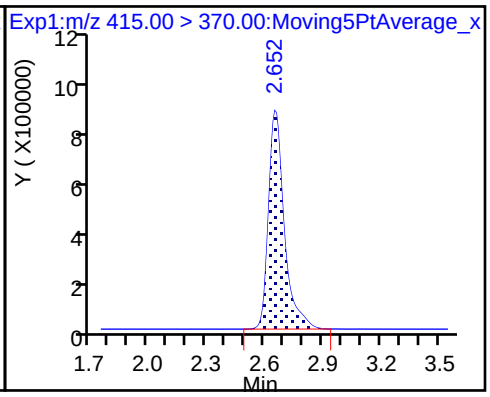
D 12 M2-6:2FTS



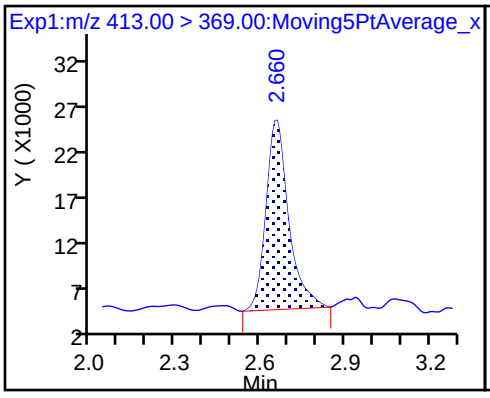
13 Sodium 1H,1H,2H,2H-perfluorooctane



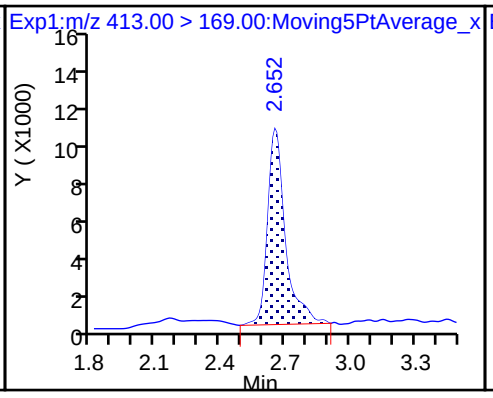
M62 13C2-PFOA



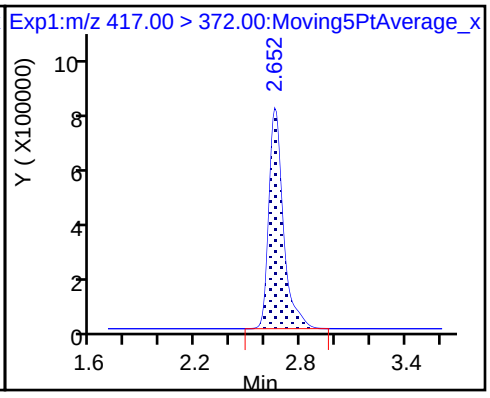
15 Perfluorooctanoic acid



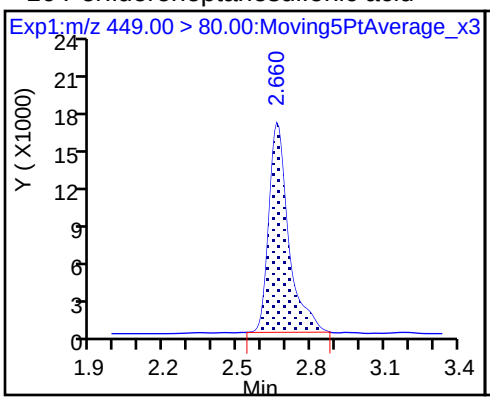
15 Perfluorooctanoic acid



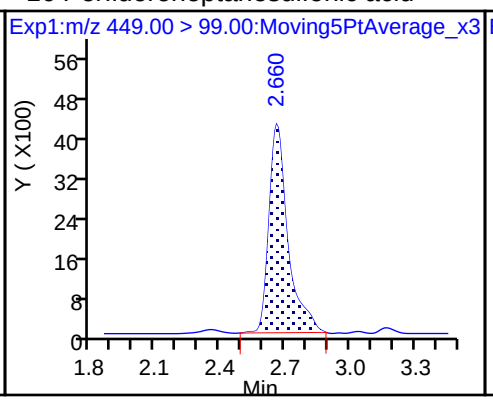
D 14 13C4 PFOA



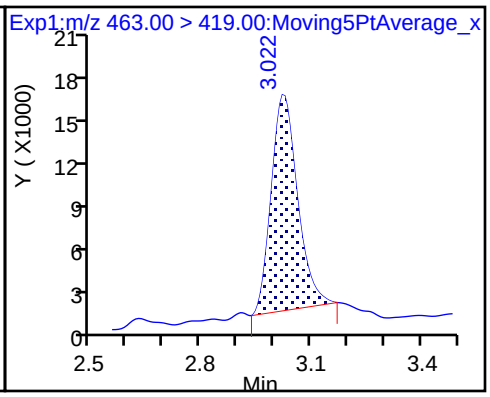
16 Perfluoroheptanesulfonic acid



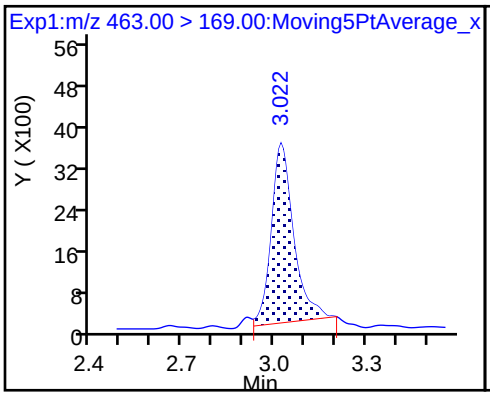
16 Perfluoroheptanesulfonic acid



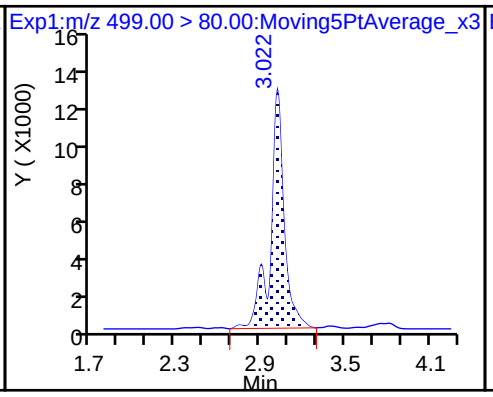
20 Perfluorononanoic acid



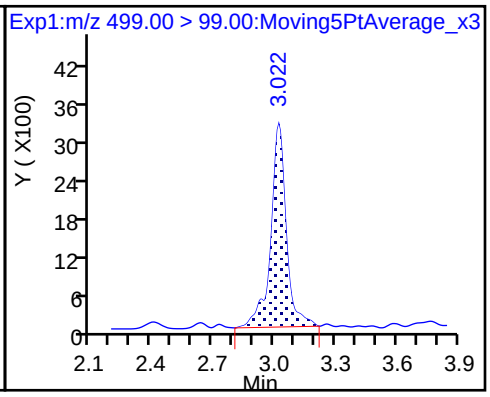
20 Perfluorononanoic acid



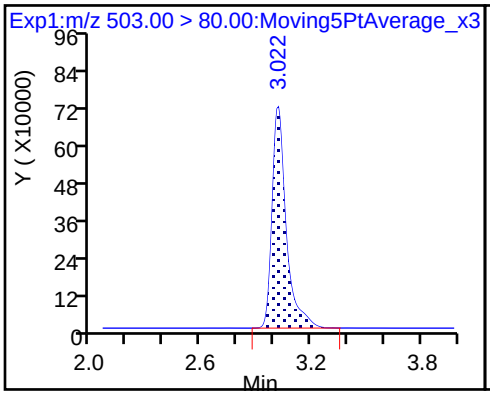
17 Perfluorooctane sulfonic acid



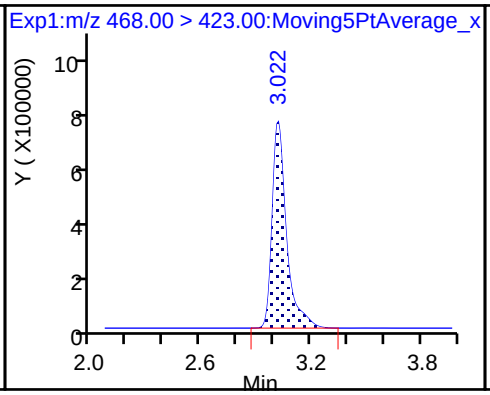
17 Perfluorooctane sulfonic acid



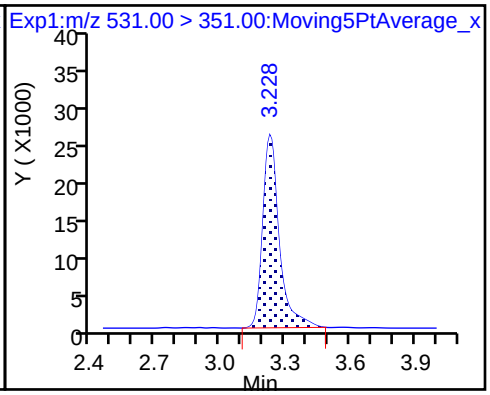
D 18 13C4 PFOS



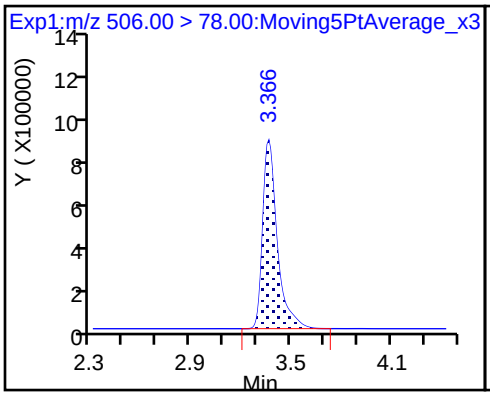
D 19 13C5 PFNA



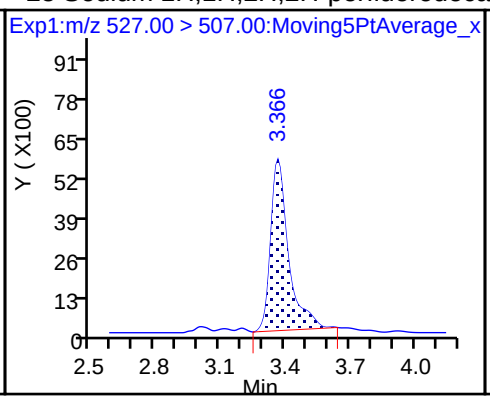
69 9-Chlorohexadecafluoro-3-oxanonane



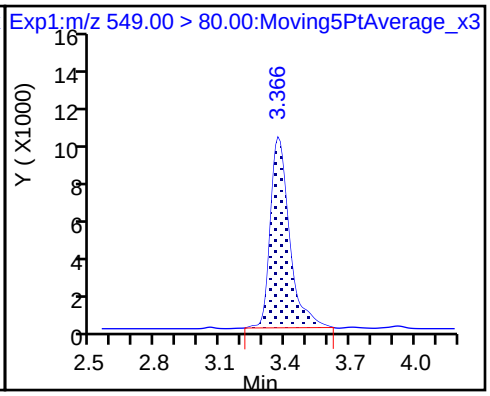
D 21 13C8 FOSA



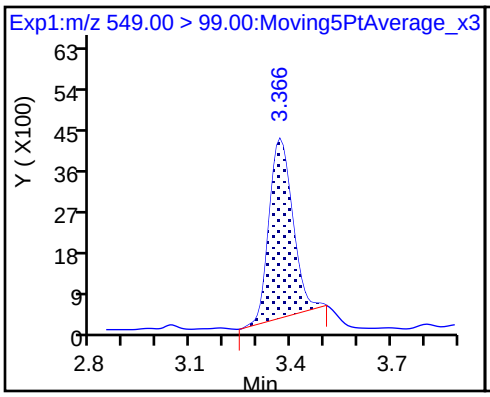
25 Sodium 1H,1H,2H,2H-perfluorodecane



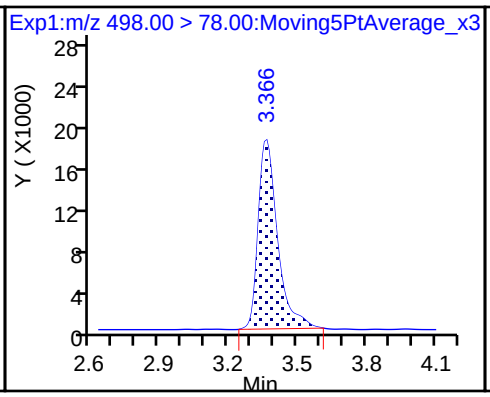
68 Perfluorononanesulfonic acid



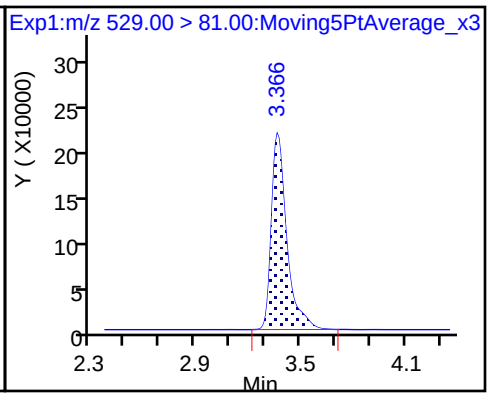
68 Perfluorononanesulfonic acid



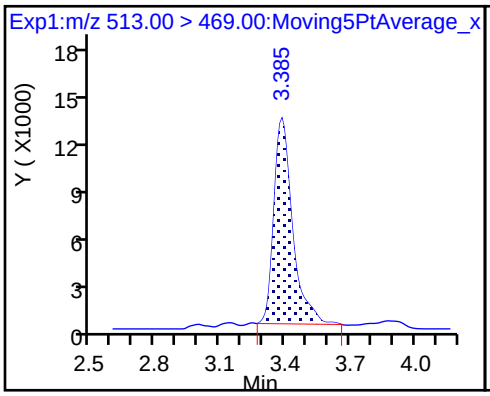
22 Perfluorooctane Sulfonamide



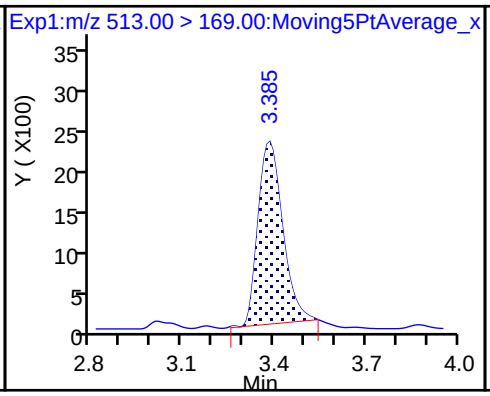
D 26 M2-8:2FTS



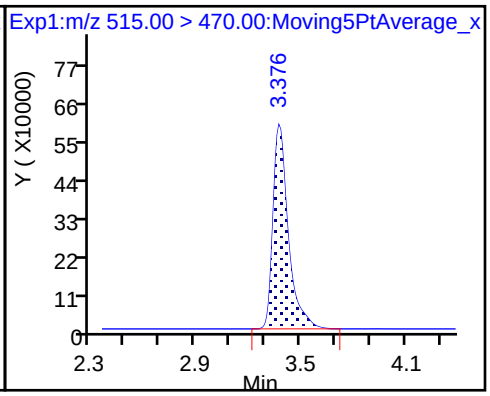
24 Perfluorodecanoic acid



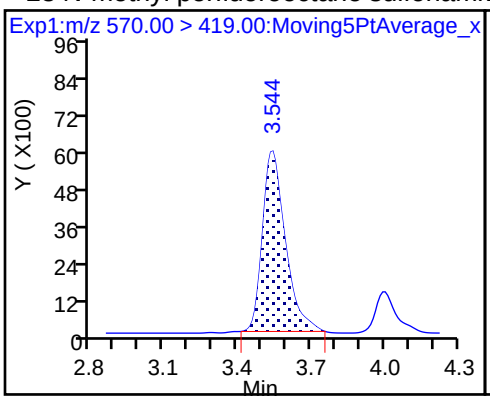
24 Perfluorodecanoic acid



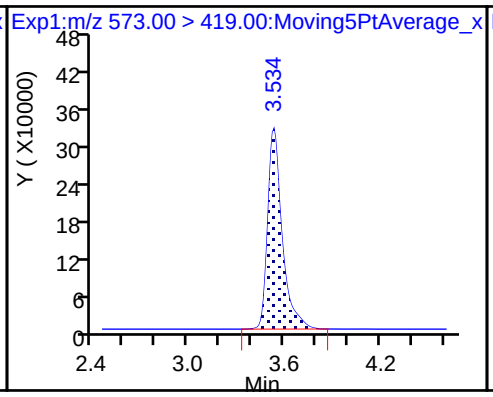
D 23 13C2 PFDA



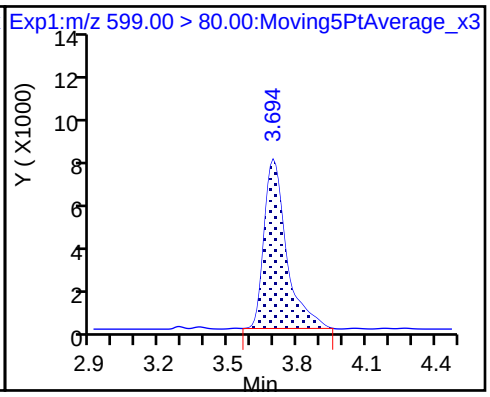
28 N-methyl perfluorooctane sulfonami



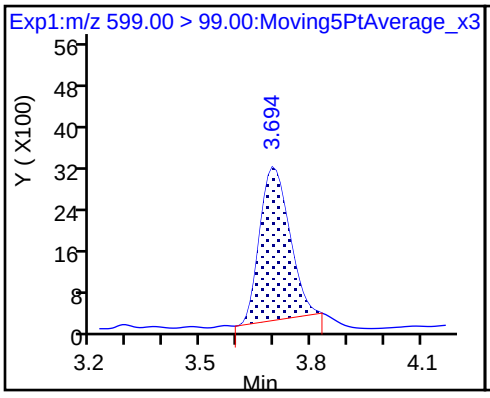
D 27 d3-NMeFOSAA



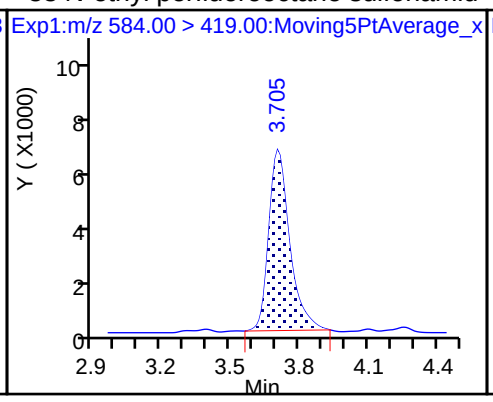
29 Perfluorodecane Sulfonic acid



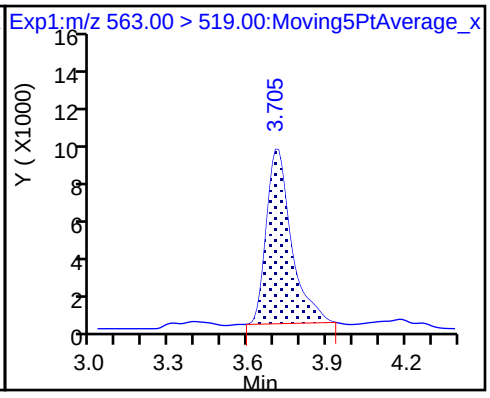
29 Perfluorodecane Sulfonic acid



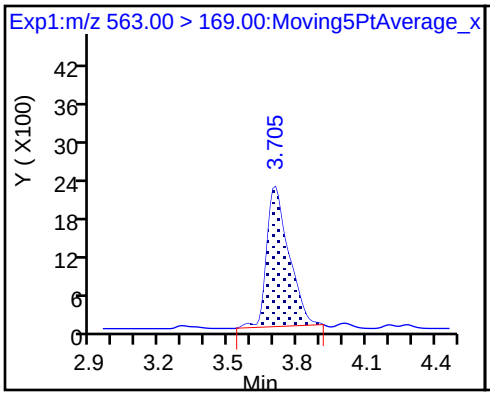
33 N-ethyl perfluorooctane sulfonamid



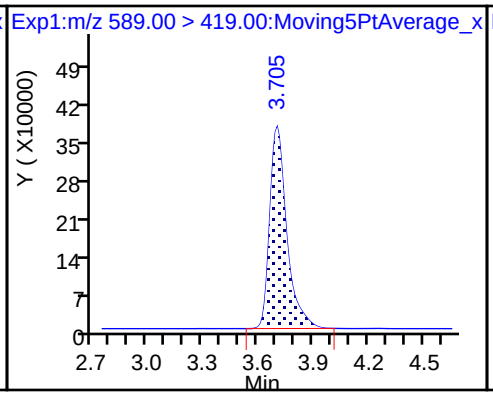
31 Perfluoroundecanoic acid



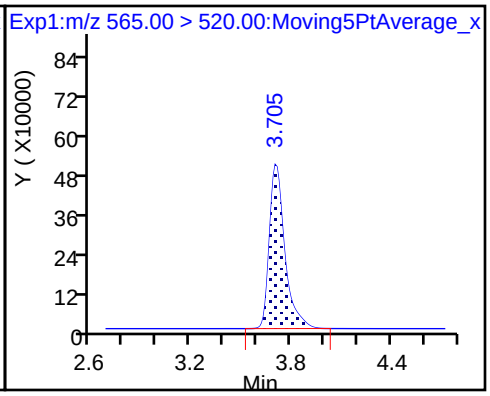
31 Perfluoroundecanoic acid



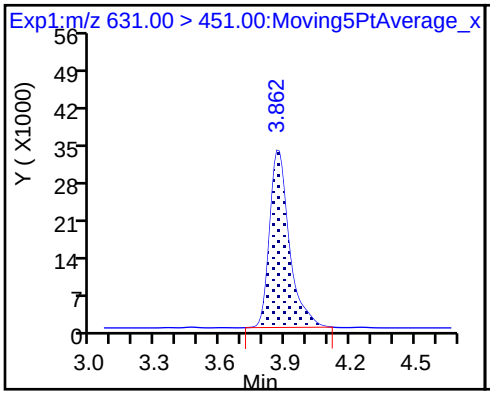
D 32 d5-NEtFOSAA



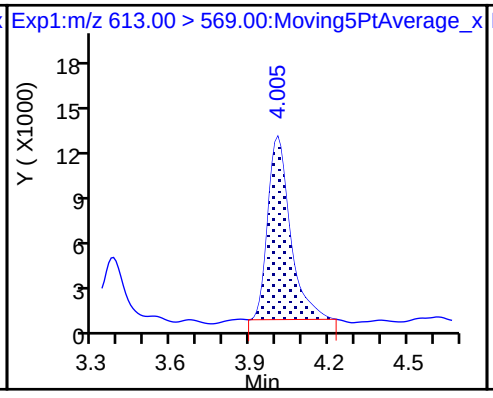
D 30 13C2 PFUnA



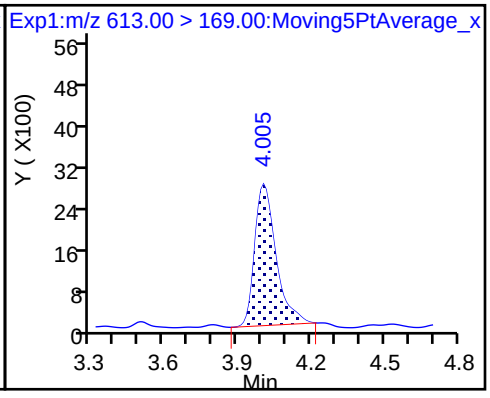
66 11-Chloroeicosafluoro-3-oxaundecan



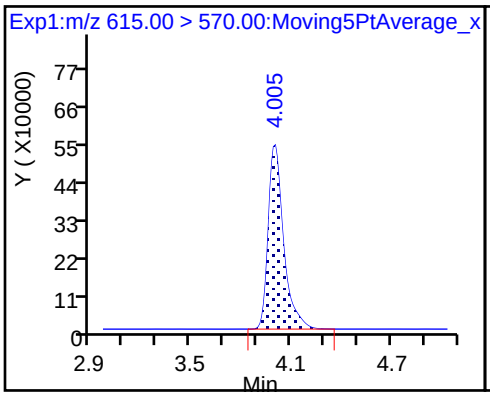
37 Perfluorododecanoic acid



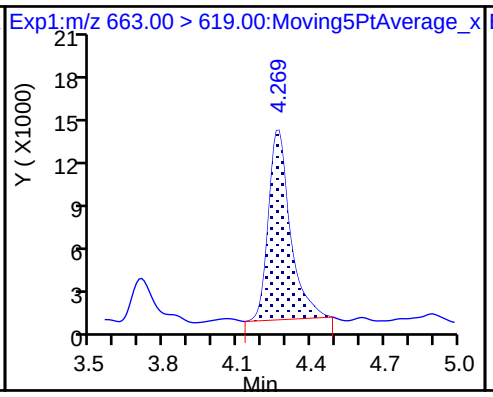
37 Perfluorododecanoic acid



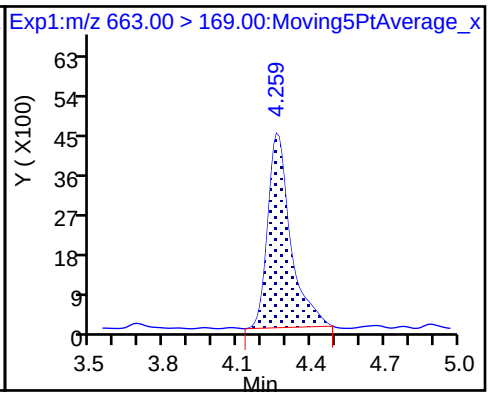
D 36 13C2 PFDoA



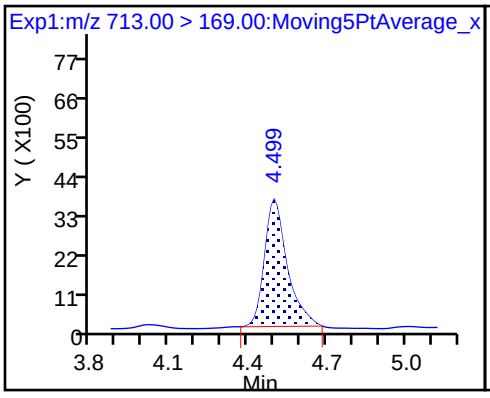
41 Perfluorotridecanoic acid



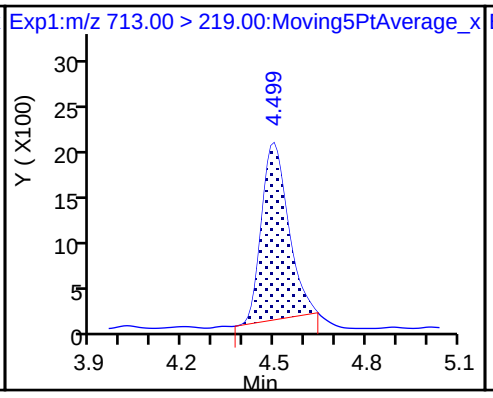
41 Perfluorotridecanoic acid



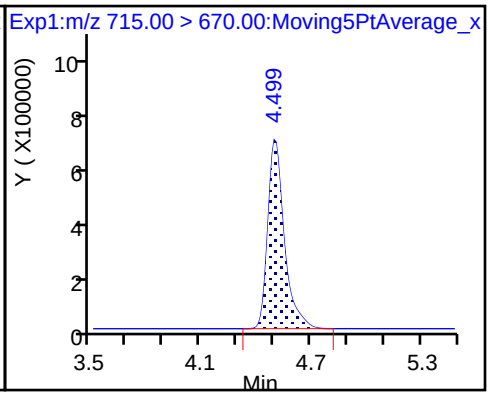
42 Perfluorotetradecanoic acid



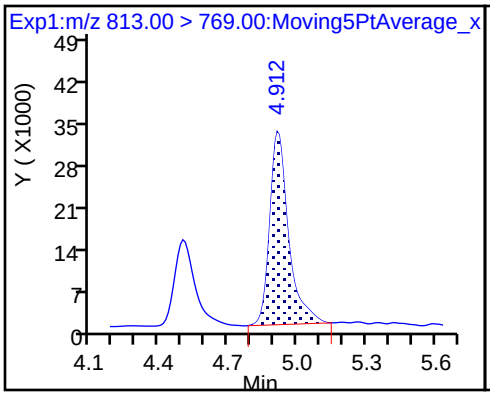
42 Perfluorotetradecanoic acid



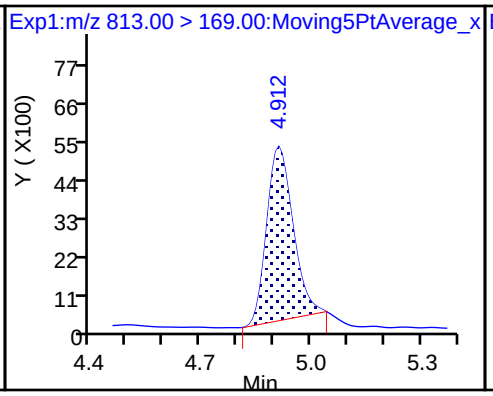
D 43 13C2-PFTeDA



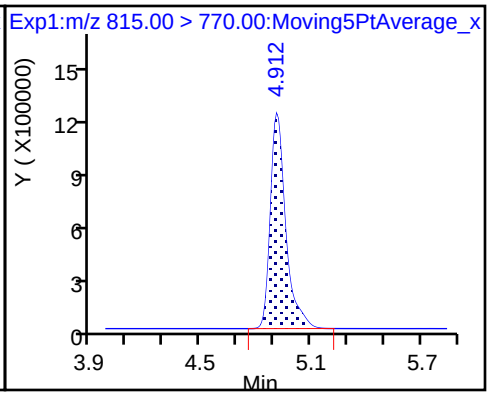
45 Perfluorohexadecanoic acid



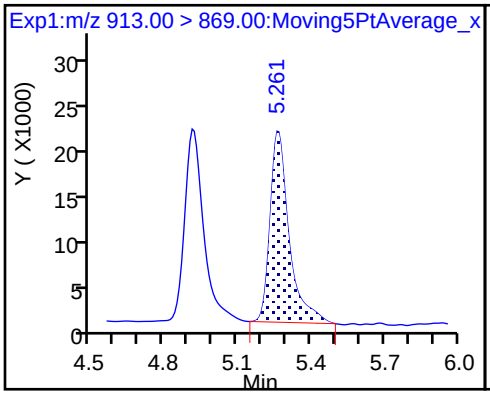
45 Perfluorohexadecanoic acid



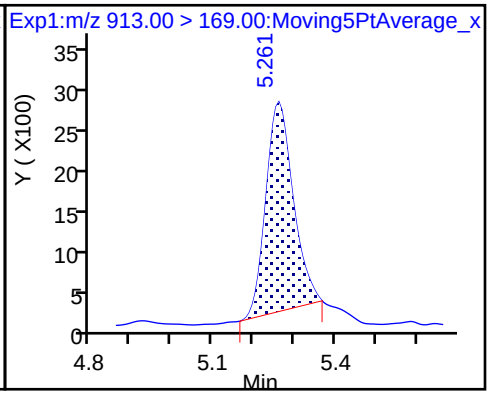
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-216698/3 Calibration Date: 04/06/2018 14:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.8989		0.973	1.00	-2.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.155		0.965	1.00	-3.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	78.63		0.881	0.884	-0.3	50.0
4:2 FTS	AveID	17.26	17.30		0.936	0.934	0.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	1.034		1.01	1.00	1.0	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	71.20	70.65		0.931	0.938	-0.8	50.0
HFPO-DA (GenX)	AveID	3.401	3.244		0.954	1.00	-4.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.035		0.952	1.00	-4.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.046		0.852	0.910	-6.4	40.0
Adona	AveID	3.564	3.480		0.977	1.00	-2.3	50.0
6:2FTS	AveID	1.868	1.717		0.872	0.948	-8.0	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.128		0.951	1.00	-4.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.334		0.953	0.952	0.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.002		0.974	1.00	-2.6	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.030		0.837	0.928	-9.8	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	1.914		0.954	0.932	2.4	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	0.9644		0.976	1.00	-2.4	40.0
8:2FTS	AveID	1.349	1.290		0.916	0.958	-4.3	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8018	0.7552		0.904	0.960	-5.8	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	0.9801		0.991	1.00	-0.9	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.062		1.01	1.00	0.8	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.6424		0.893	0.964	-7.4	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9426		1.03	1.00	2.8	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.7932		0.989	1.00	-1.1	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	2.986		0.969	0.942	2.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.034		0.956	1.00	-4.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.193		1.03	1.00	3.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2426		0.971	1.00	-2.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9395		0.971	1.00	-2.9	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-216698/3 Calibration Date: 04/06/2018 14:00

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.9346		0.941	1.00	-5.9	50.0
13C4 PFBA	Ave	1.382	1.256		2.27	2.50	-9.1	50.0
13C5 PFPeA	Ave	0.8994	0.8448		2.35	2.50	-6.1	50.0
13C3-PFBS	Ave	0.0206	0.0186		2.10	2.33	-9.6	50.0
M2-4:2FTS	Ave	0.1573	0.1573		2.33	2.34	-0.0	50.0
13C2 PFHxA	Ave	0.9916	0.9236		2.33	2.50	-6.9	50.0
13C3 HFPO-DA	Ave	0.0494	0.0462		2.34	2.50	-6.4	50.0
13C4-PFHpA	Ave	0.9533	0.9214		2.42	2.50	-3.3	50.0
18O2 PFHxS	Ave	1.189	1.096		2.18	2.37	-7.8	50.0
M2-6:2FTS	Ave	0.2203	0.2082		2.24	2.38	-5.5	40.0
13C4 PFOA	Ave	0.9372	0.9095		2.43	2.50	-3.0	50.0
13C4 PFOS	Ave	0.8257	0.7910		2.29	2.39	-4.2	50.0
13C5 PFNA	Ave	0.7930	0.8354		2.63	2.50	5.4	50.0
13C8 FOSA	Ave	1.166	1.072		2.30	2.50	-8.1	50.0
M2-8:2FTS	Ave	0.2562	0.2640		2.47	2.40	3.0	40.0
13C2 PFDA	Ave	0.6698	0.7314		2.73	2.50	9.2	50.0
d3-NMeFOSAA	Ave	0.3583	0.4158		2.90	2.50	16.0	50.0
d5-NEtFOSAA	Ave	0.3760	0.4428		2.94	2.50	17.8	50.0
13C2 PFUnA	Ave	0.5468	0.6166		2.82	2.50	12.8	50.0
13C2 PFDoA	Ave	0.6087	0.6835		2.81	2.50	12.3	50.0
13C2-PFTeDA	Ave	0.7733	0.8433		2.73	2.50	9.1	50.0
13C2-PFHxDA	Ave	1.194	1.421		2.98	2.50	19.0	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_005.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Apr-2018 14:00:13 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 06-Apr-2018 15:13:52 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK012

First Level Reviewer: westendorfc Date: 06-Apr-2018 15:10:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.430	0.0	1.000	2222012	0.9726		97.3	972	
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.430	0.0	1.000	6179951	2.27		90.9	45846	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.702	1.702	0.0	1.000	1920214	0.9646		96.5	1224	
D 3 13C5-PFPeA										
267.90 > 223.00	1.702	1.694	0.008	0.562	4157766	2.35		93.9	79106	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.738	1.738	0.0	1.000	2549204	0.8811		99.7	17099	
298.90 > 99.00	1.738	1.738	0.0	1.000	1076171		2.37(1.25-3.74)		15330	
D 47 13C3-PFBS										
301.90 > 83.00	1.738	1.730	0.008	1.000	85265	2.10		90.4	672	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.949	1.949	0.0	1.000	592401	0.9361		100	22917	
D 60 M2-4:2FTS										
329.00 > 81.00	1.949	1.939	0.010	1.000	722822	2.33		100.0	6783	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.981	1.981	0.0	1.000	1879775	1.01		101	3760	
313.00 > 119.00	1.981	1.981	0.0	1.000	170572		11.02(5.03-15.10)		2400	
D 7 13C2 PFHxA										
315.00 > 270.00	1.981	1.971	0.010	1.000	4545379	2.33		93.1	89343	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.003	2.003	0.0	1.000	2430431	0.9308		99.2	46996	
349.00 > 99.00	2.003	2.003	0.0	1.000	944705		2.57(1.36-4.07)		18183	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.082	2.082	0.0	1.000	295124	0.9536		95.4	2129	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.082	2.072	0.010	1.000	227465	2.34		93.6	4206	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.306	2.306	0.0	1.000	1876698	0.9522		95.2	2056	
363.00 > 169.00	2.306	2.306	0.0	1.000	682778		2.75(1.13-3.40)		2286	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.319	2.319	0.0	1.000	2053257	0.8521		93.6	16099	
399.00 > 99.00	2.319	2.319	0.0	1.000	668463		3.07(1.50-4.49)		6605	
D 9 13C4-PFHpA										
367.00 > 322.00	2.306	2.308	-0.002	1.000	4534680	2.42		96.7	91930	
D 11 18O2 PFHxS										
403.00 > 84.00	2.319	2.321	-0.002	1.000	5102428	2.18		92.2	90515	
65 Adona										
377.00 > 251.00	2.345	2.345	0.0	1.000	5419054	0.9766		97.7	64433	
377.00 > 85.00	2.345	2.345	0.0	1.000	3256035		1.66(0.84-2.53)		58721	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.629	0.007	1.000	973277	2.24		94.5	20994	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.636	2.636	0.0	1.000	667187	0.8718		92.0	14238	
* 62 13C2-PFOA										
415.00 > 370.00	2.660	2.660	0.0		4921391	2.50			81010	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.660	2.660	0.0	1.000	2019690	0.9513		95.1	508	
413.00 > 169.00	2.660	2.660	0.0	1.000	1013207		1.99(0.84-2.52)		3769	
D 14 13C4 PFOA										
417.00 > 372.00	2.660	2.660	0.0	1.000	4475850	2.43		97.0	79945	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.667	0.0	1.000	1976920	0.9527		100	36461	
449.00 > 99.00	2.667	2.667	0.0	1.000	509270		3.88(1.94-5.82)		13274	
20 Perfluorononanoic acid										
463.00 > 419.00	3.030	3.030	0.0	1.000	1648253	0.9740		97.4	3407	
463.00 > 169.00	3.030	3.030	0.0	1.000	400683		4.11(1.90-5.69)		14731	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.030	3.030	0.0	1.002	1488801	0.8368		90.2	11799	
499.00 > 99.00	3.023	3.030	-0.007	1.000	334664		4.45(2.31-6.93)		9074	
D 18 13C4 PFOS										
503.00 > 80.00	3.023	3.021	0.002	1.000	3721472	2.29		95.8	41196	
D 19 13C5 PFNA										
468.00 > 423.00	3.030	3.028	0.002	1.000	4111488	2.63		105	128840	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.238	3.238	0.0	1.000	2777824	0.9540		102	51865	
D 21 13C8 FOSA										
506.00 > 78.00	3.368	3.356	0.012	1.000	5278014	2.30		91.9	55529	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.378	3.378	0.0	1.000	642334	0.9165		95.7	10595	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.378	3.378	0.0	1.000	1128846	0.9042		94.2	31547	
549.00 > 99.00	3.378	3.378	0.0	1.000	412087		2.74(1.33-3.97)		13707	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.368	3.368	0.0	1.000	2036048	0.9764		97.6	37555	
D 26 M2-8:2FTS										
529.00 > 81.00	3.378	3.374	0.004	1.000	1244506	2.47		103	33630	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.387	3.387	0.0	1.000	1411188	0.99		99.1	5119	
513.00 > 169.00	3.387	3.387	0.0	1.000	240765		5.86(2.36-7.09)		5651	
D 23 13C2 PFDA										
515.00 > 470.00	3.387	3.384	0.003	1.000	3599695	2.73		109	66507	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.546	3.546	0.0	1.003	869522	1.01		101	4565	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.536	3.542	-0.006	1.000	2046050	2.90		116	55080	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.696	3.696	0.0	1.000	964239	0.8925		92.6	25142	
599.00 > 99.00	3.696	3.696	0.0	1.000	323656		2.98(1.39-4.16)		12681	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.717	3.717	0.0	1.003	821585	1.03		103	21233	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.717	3.717	0.0	1.000	962702	0.9885		98.9	5508	
563.00 > 169.00	3.717	3.717	0.0	1.000	228004		4.22(2.12-6.36)		7102	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.707	3.711	-0.004	1.000	2179100	2.94		118	20981	
D 30 13C2 PFUnA										
565.00 > 520.00	3.717	3.722	-0.005	1.000	3034432	2.82		113	52903	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.874	3.874	0.0	1.000	4379837	0.9691		103	100338	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.007	4.007	0.0	1.000	1390578	0.9563		95.6	1199	
613.00 > 169.00	4.007	4.007	0.0	1.000	347734		4.00(2.13-6.40)		6822	
D 36 13C2 PFDoA										
615.00 > 570.00	4.007	4.011	-0.004	1.000	3363589	2.81		112	22076	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.270	4.270	0.0	1.000	1604671	1.03		103	1088	
663.00 > 169.00	4.270	4.270	0.0	1.000	475297		3.38(1.25-3.76)		7684	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.511	4.511	0.0	1.000	402750	0.9714		97.1	5008	
713.00 > 219.00	4.501	4.511	-0.010	0.998	299050		1.35(0.71-2.13)		5317	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.511	4.513	-0.002	1.000	4150132	2.73		109	26448	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.922	4.922	0.0	1.000	2627338	0.9708		97.1	695	
813.00 > 169.00	4.922	4.922	0.0	1.000	416490		6.31(2.86-8.58)		4583	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.922	4.933	-0.011	1.000	6991354	2.97		119	18900	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.277	5.277	0.0	1.000	2613506	0.9413		94.1	604	
913.00 > 169.00	5.277	5.277	0.0	1.000	321201		8.14(3.83-11.48)		2646	

Reagents:

LCPFC_LL4_00004 Amount Added: 1.00 Units: mL

Report Date: 06-Apr-2018 15:13:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_005.d

Injection Date: 06-Apr-2018 14:00:13 Instrument ID: A8_N

Lims ID: CCV L4

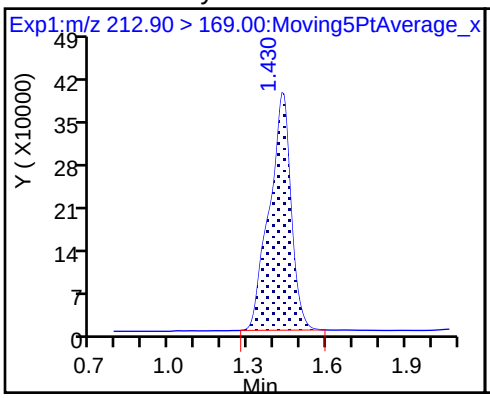
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3

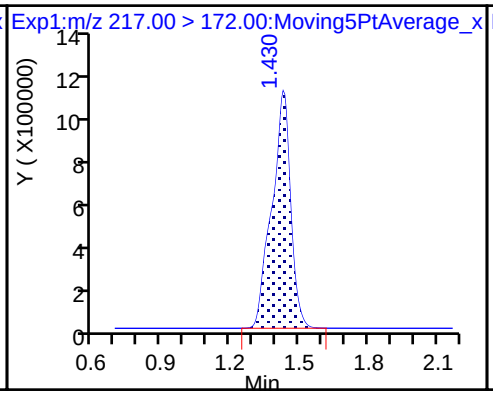
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

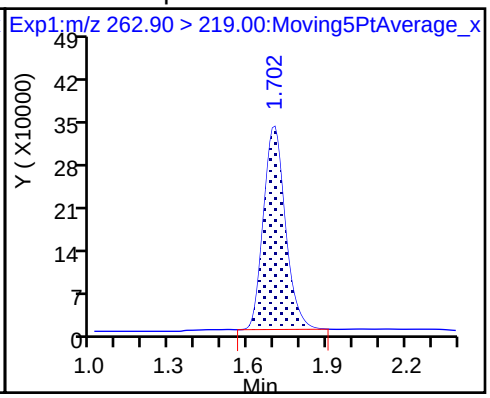
2 Perfluorobutyric acid



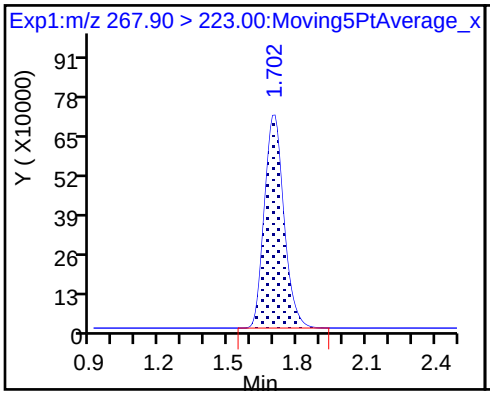
D 1 13C4 PFBA



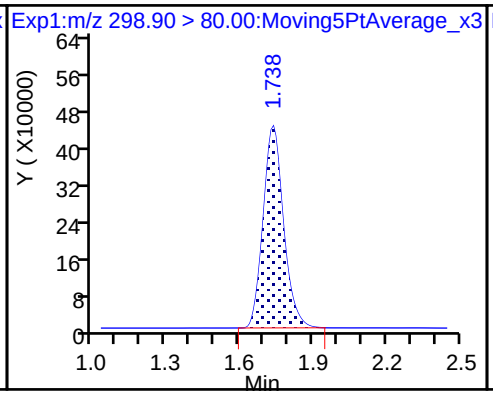
4 Perfluoropentanoic acid



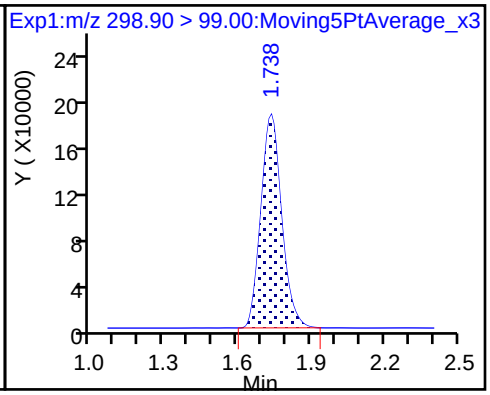
D 3 13C5-PFPeA



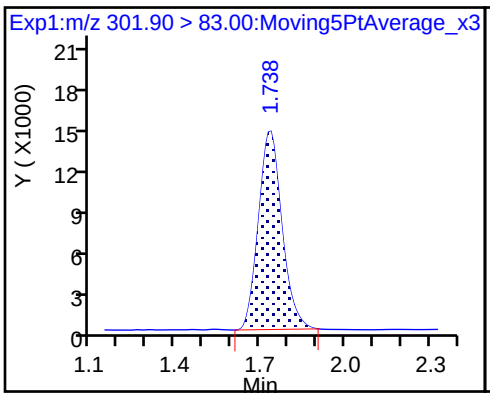
5 Perfluorobutanesulfonic acid



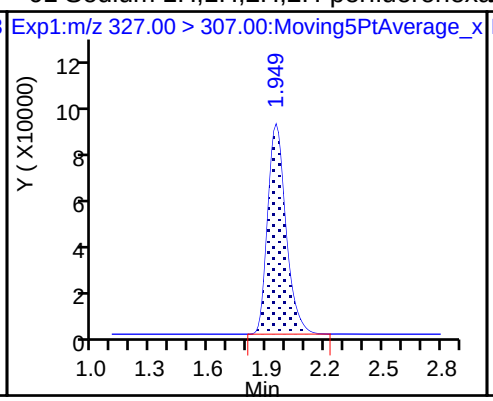
5 Perfluorobutanesulfonic acid



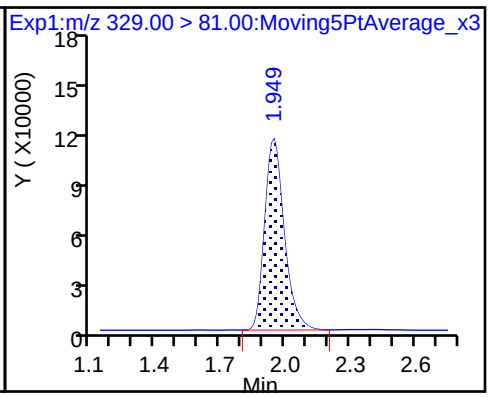
D 47 13C3-PFBS



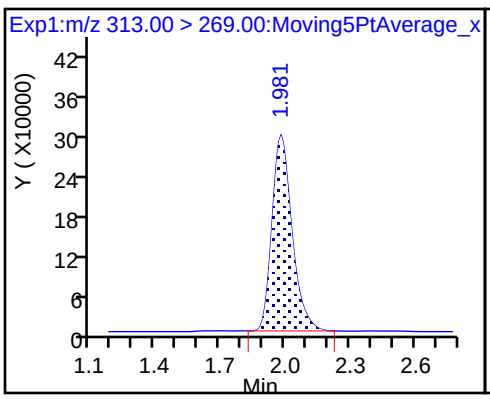
61 Sodium 1H,1H,2H,2H-perfluorohexane



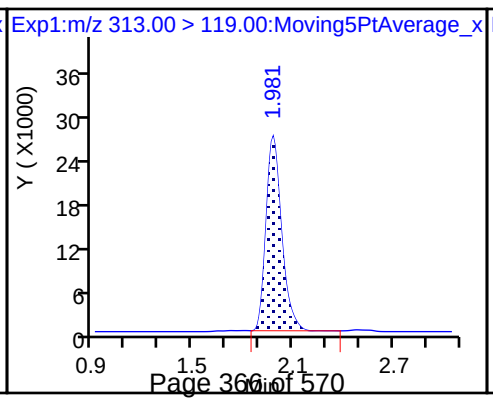
D 60 M2-4:2FTS



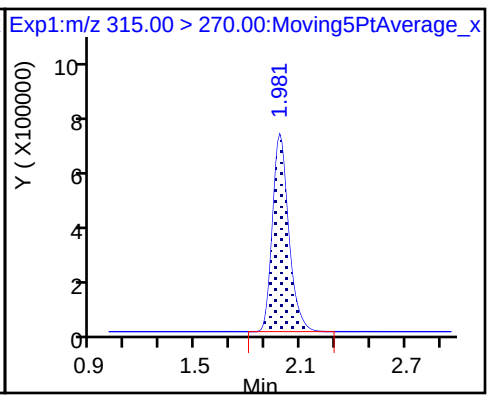
6 Perfluorohexanoic acid



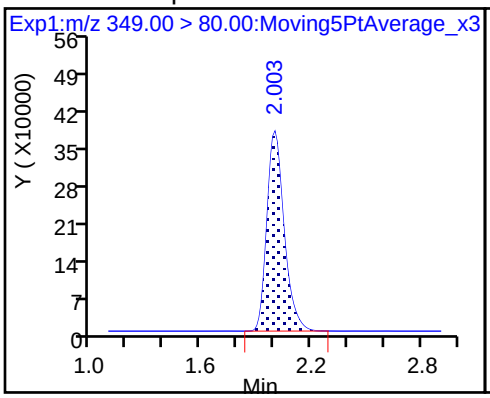
6 Perfluorohexanoic acid



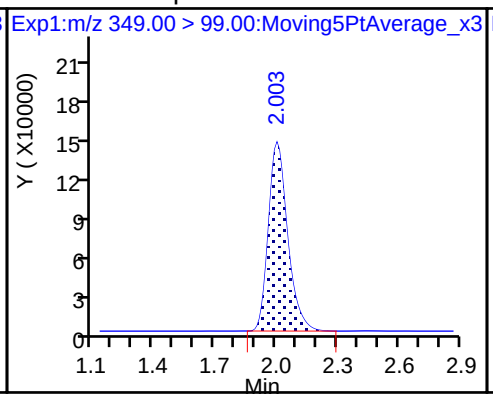
D 7 13C2 PFHxA



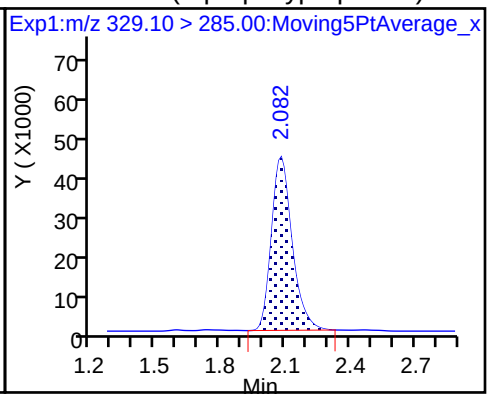
70 Perfluoropentanesulfonic acid



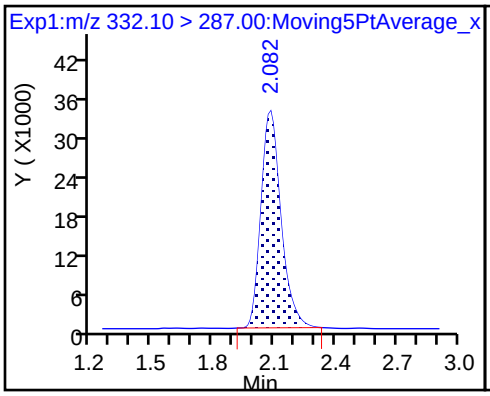
70 Perfluoropentanesulfonic acid



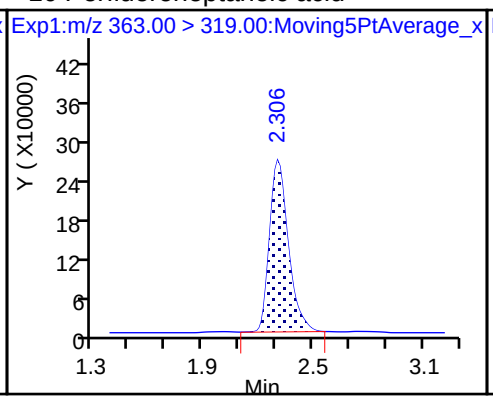
67 Perfluoro(2-propoxypropanoic) acid



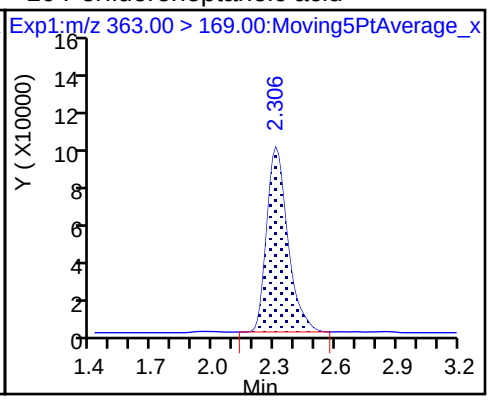
D 64 13C3 HFPO-DA



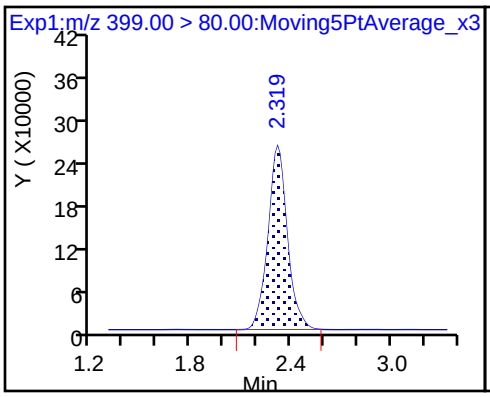
10 Perfluoroheptanoic acid



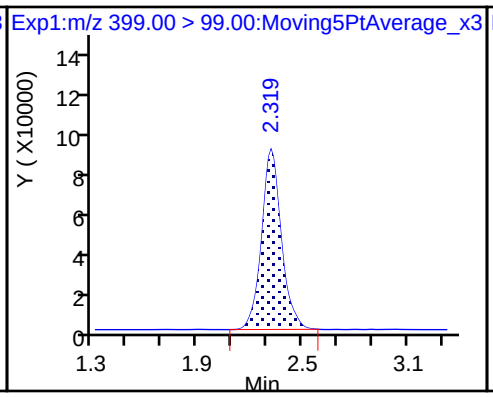
10 Perfluoroheptanoic acid



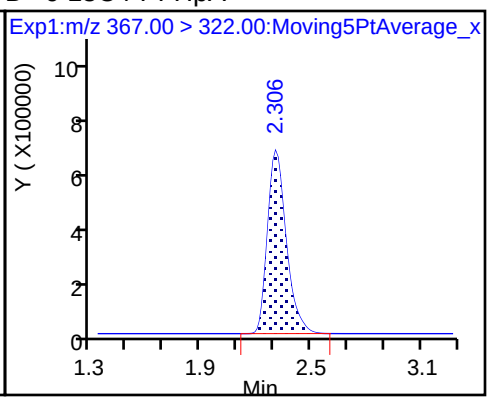
8 Perfluorohexanesulfonic acid



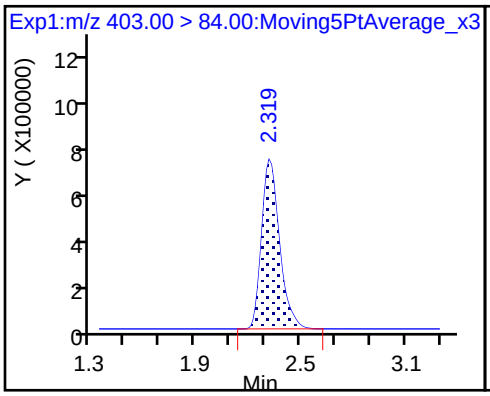
8 Perfluorohexanesulfonic acid



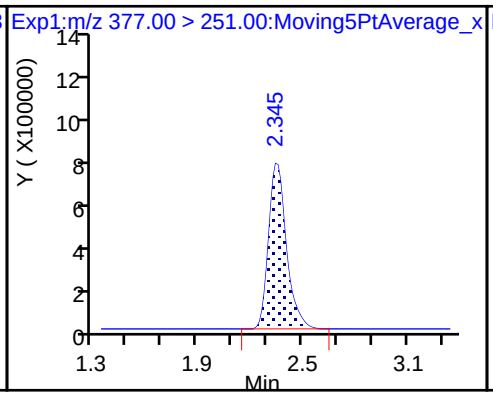
D 9 13C4-PFHpA



D 11 18O2 PFHxS



65 Adona



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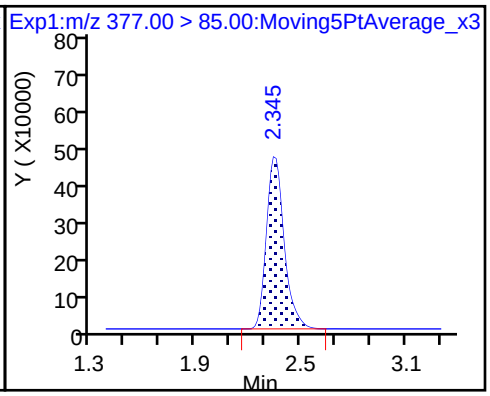
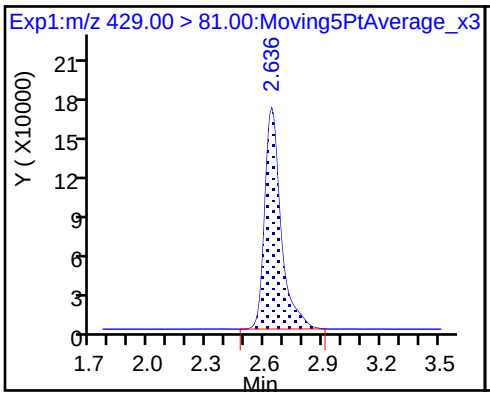
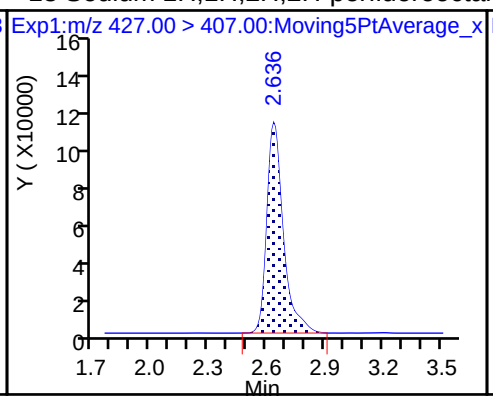


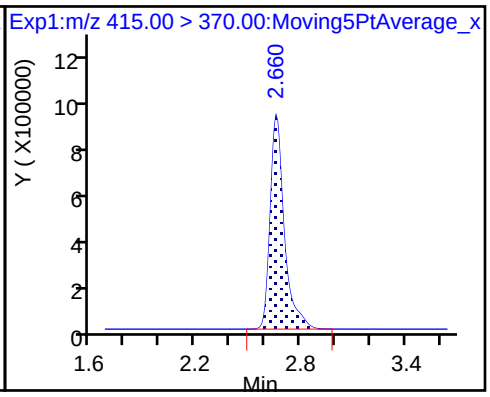
D 12 M2-6:2FTS



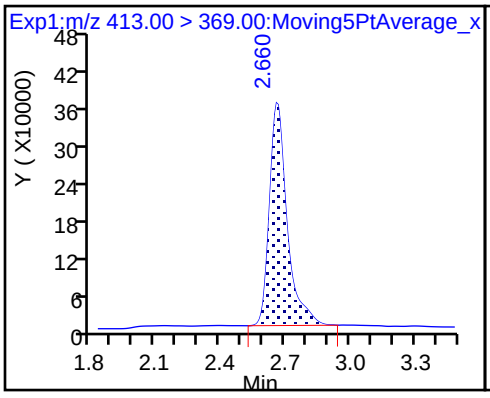
13 Sodium 1H,1H,2H,2H-perfluorooctane



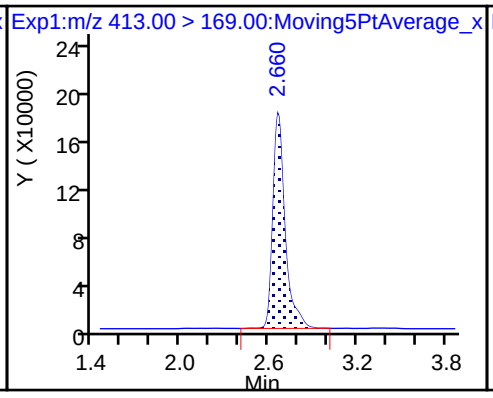
M62 13C2-PFOA



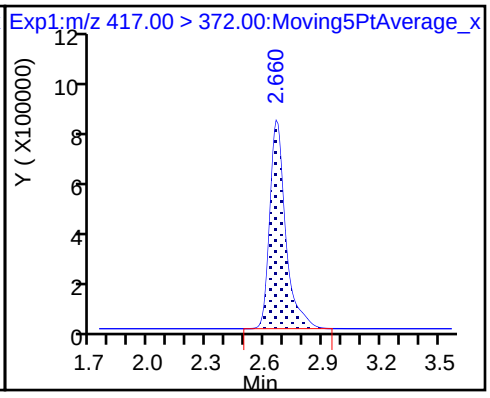
15 Perfluorooctanoic acid



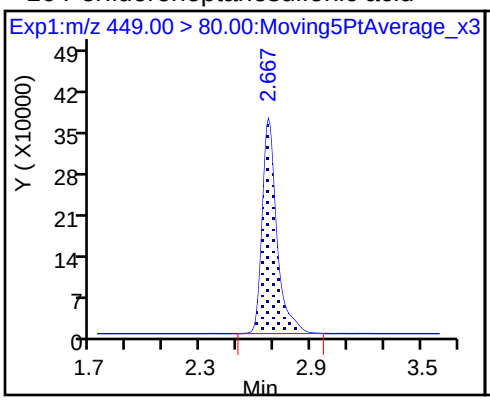
15 Perfluorooctanoic acid



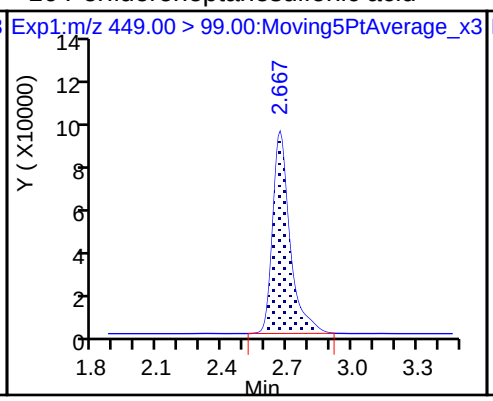
D 14 13C4 PFOA



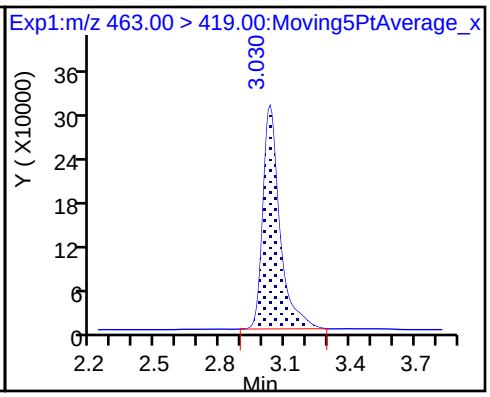
16 Perfluoroheptanesulfonic acid



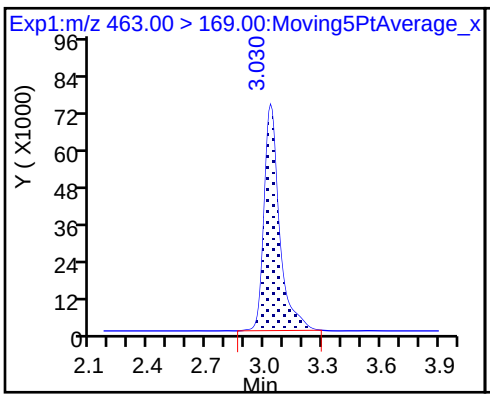
16 Perfluoroheptanesulfonic acid



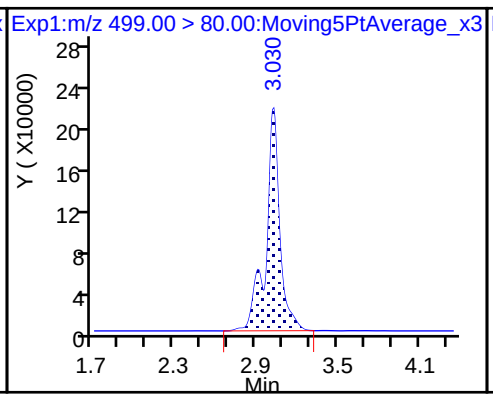
20 Perfluorononanoic acid



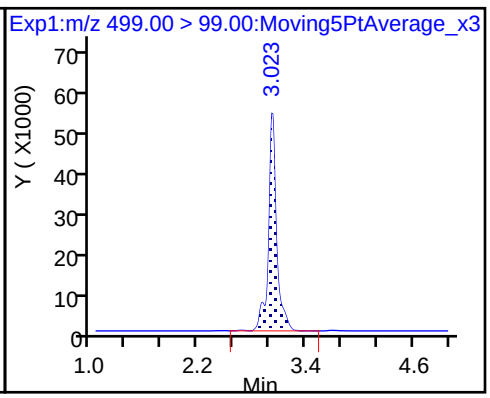
20 Perfluorononanoic acid



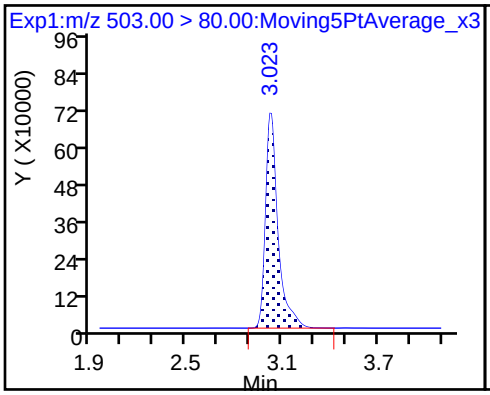
17 Perfluorooctane sulfonic acid



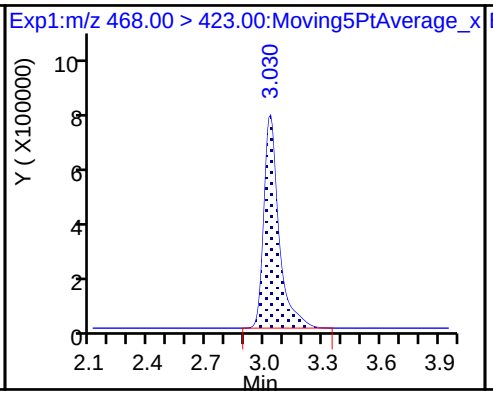
17 Perfluorooctane sulfonic acid



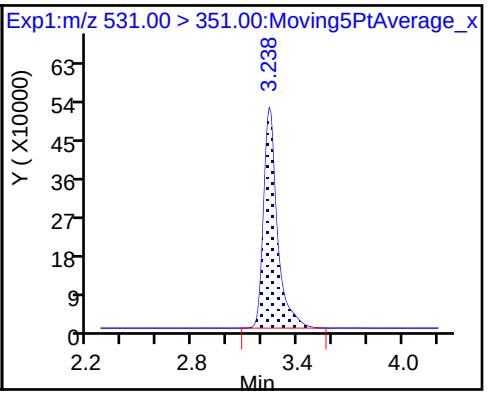
D 18 13C4 PFOS



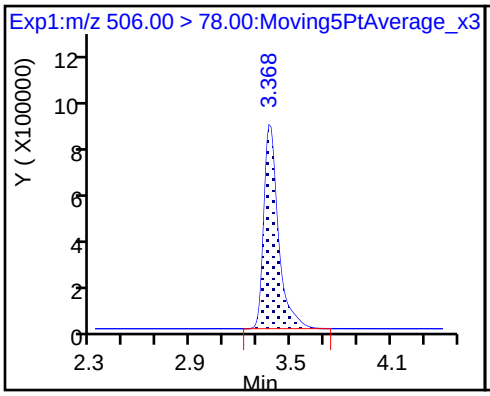
D 19 13C5 PFNA



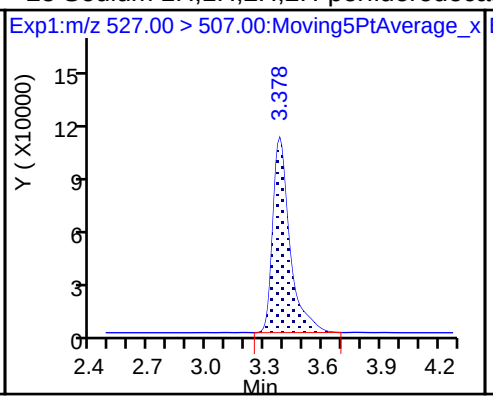
69 9-Chlorohexadecafluoro-3-oxanonane



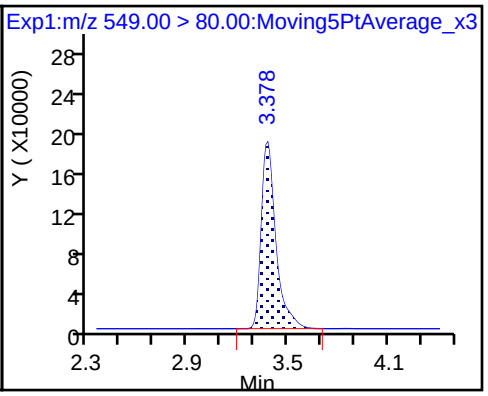
D 21 13C8 FOSA



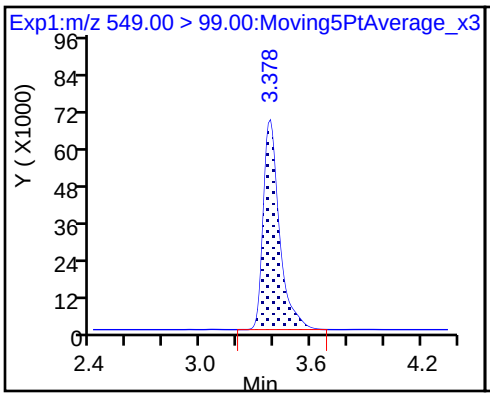
25 Sodium 1H,1H,2H,2H-perfluorodecane



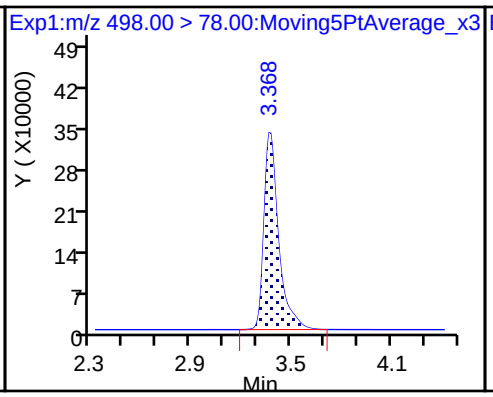
68 Perfluorononanesulfonic acid



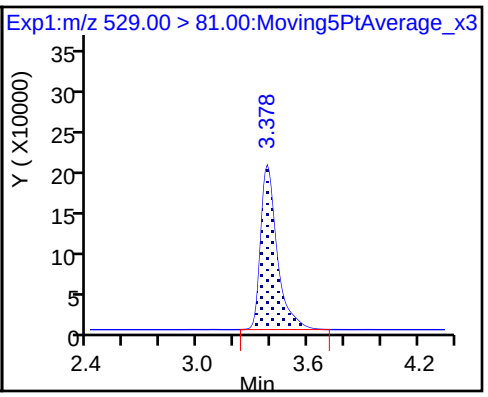
68 Perfluorononanesulfonic acid



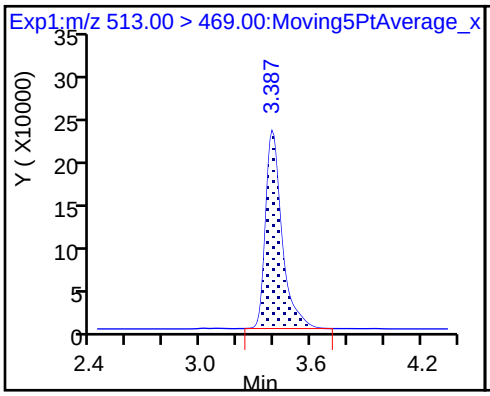
22 Perfluorooctane Sulfonamide



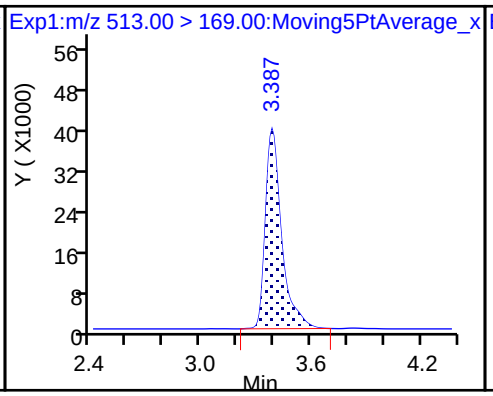
D 26 M2-8:2FTS



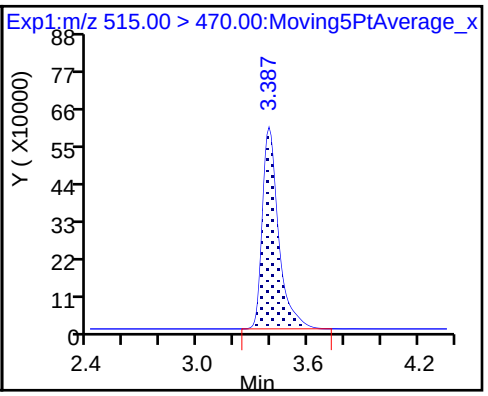
24 Perfluorodecanoic acid



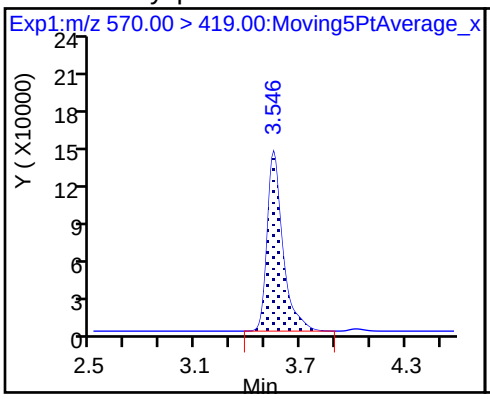
24 Perfluorodecanoic acid



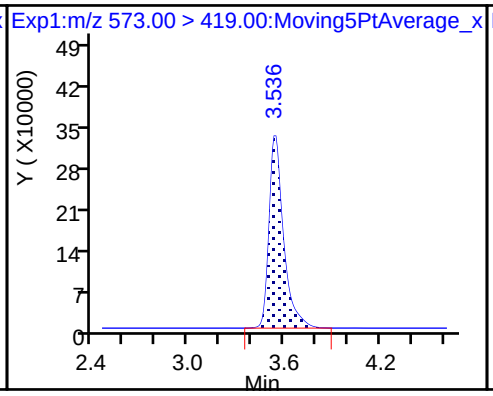
D 23 13C2 PFDA



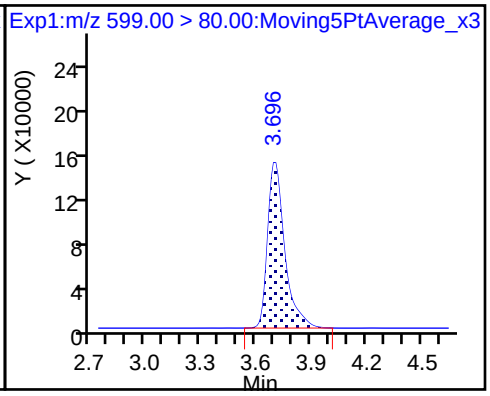
28 N-methyl perfluorooctane sulfonami



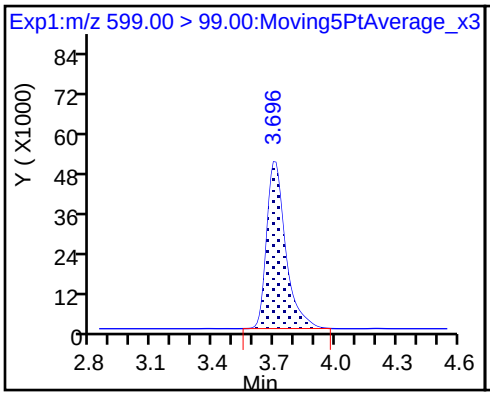
D 27 d3-NMeFOSAA



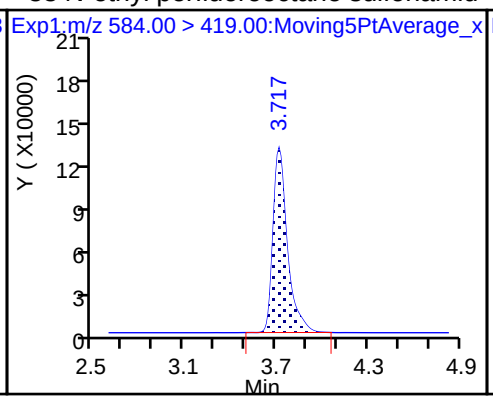
29 Perfluorodecane Sulfonic acid



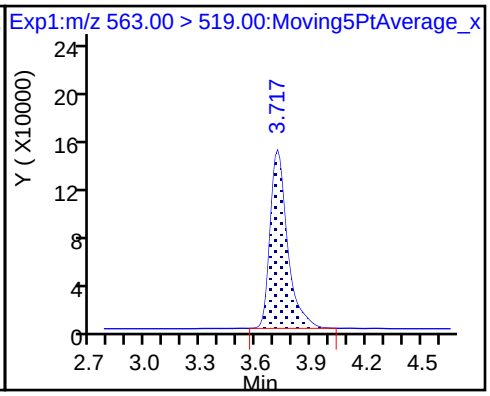
29 Perfluorodecane Sulfonic acid



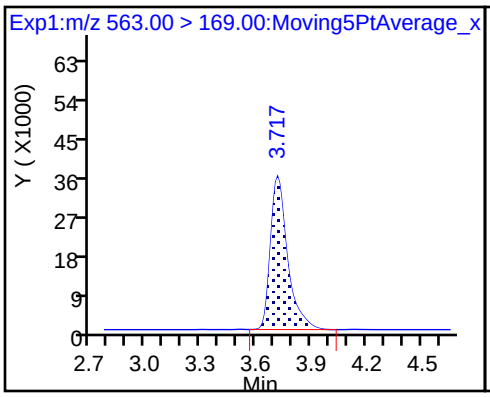
33 N-ethyl perfluorooctane sulfonamid



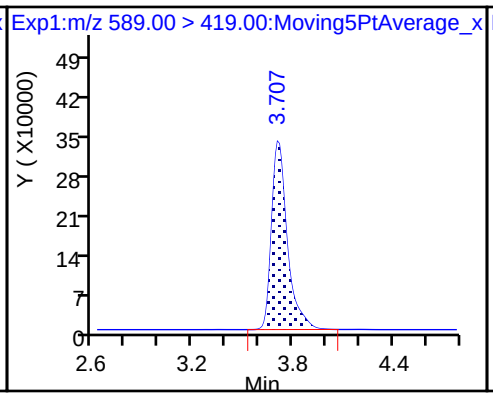
31 Perfluoroundecanoic acid



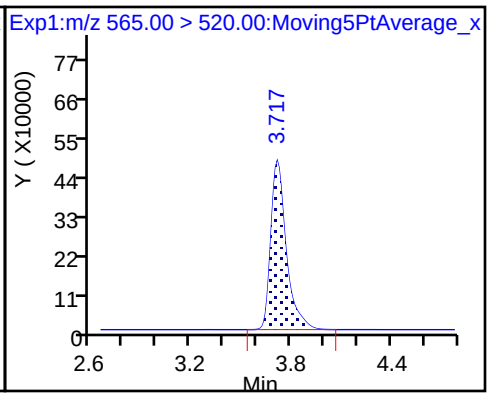
31 Perfluoroundecanoic acid



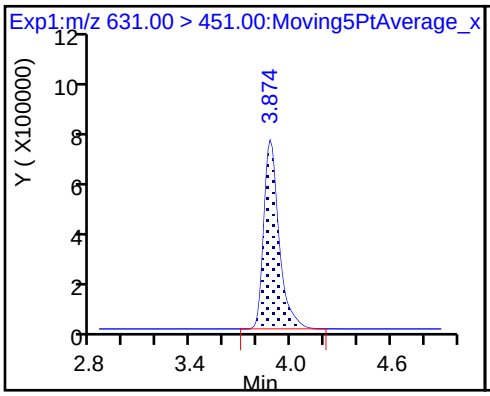
D 32 d5-NEtFOSAA



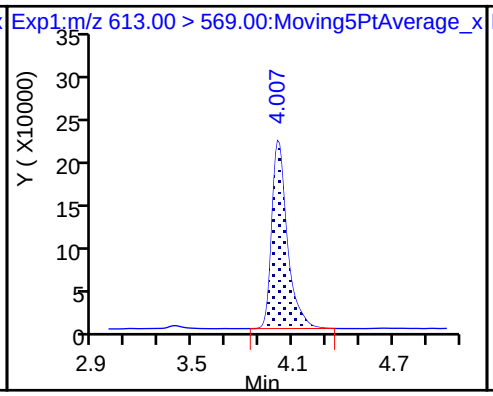
D 30 13C2 PFUnA



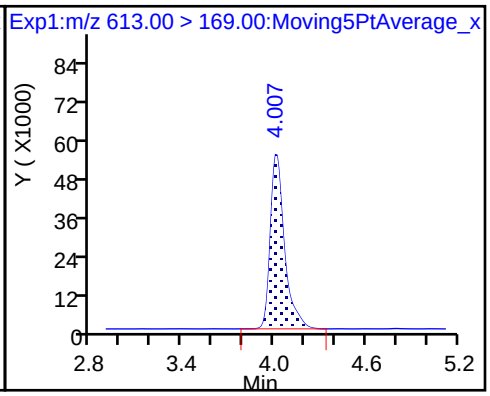
66 11-Chloroeicosafluoro-3-oxaundecan



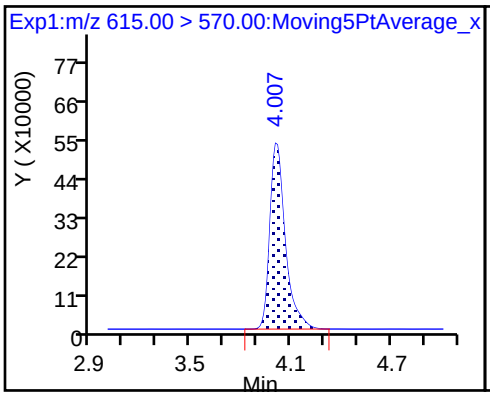
37 Perfluorododecanoic acid



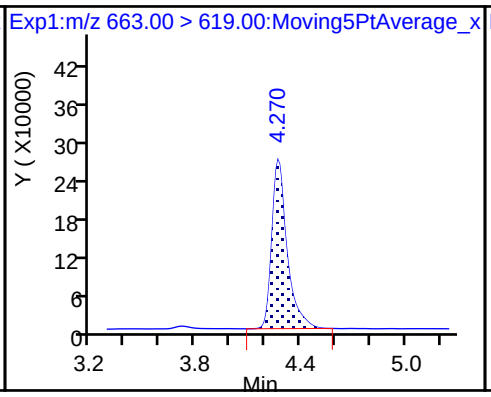
37 Perfluorododecanoic acid



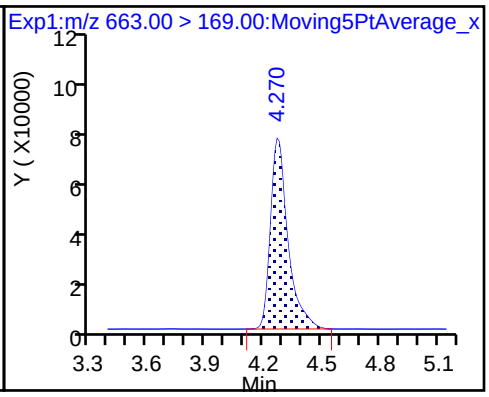
D 36 13C2 PFDoA



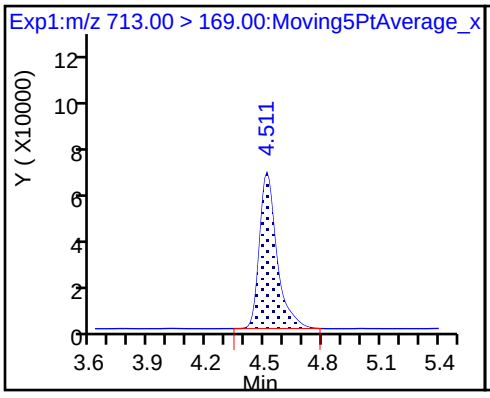
41 Perfluorotridecanoic acid



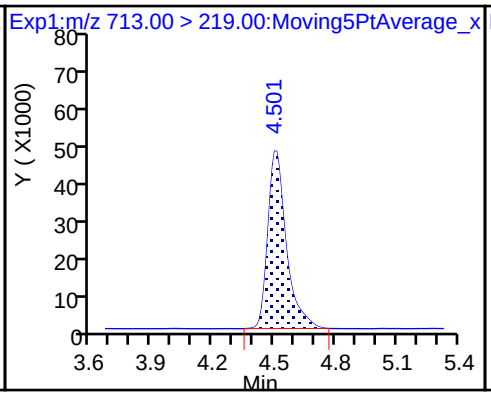
41 Perfluorotridecanoic acid



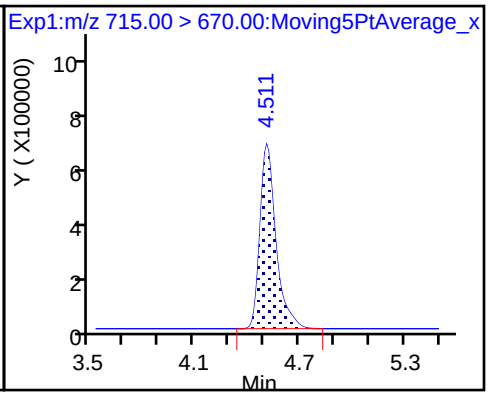
42 Perfluorotetradecanoic acid



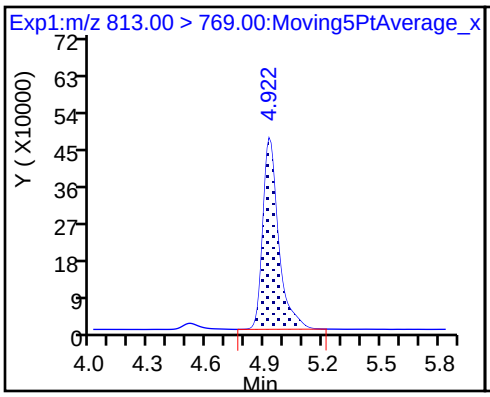
42 Perfluorotetradecanoic acid



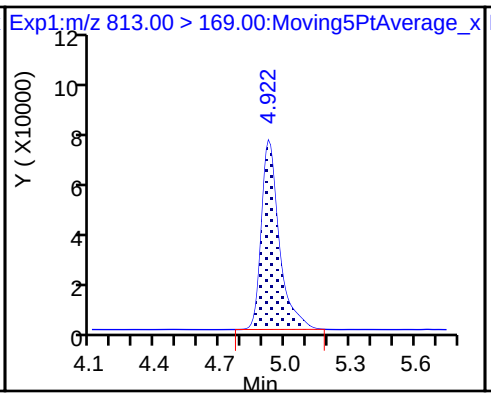
D 43 13C2-PFTeDA



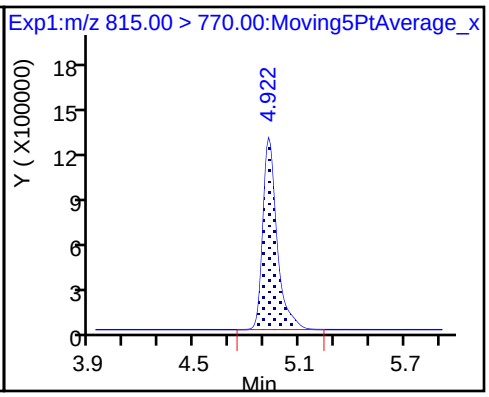
45 Perfluorohexadecanoic acid



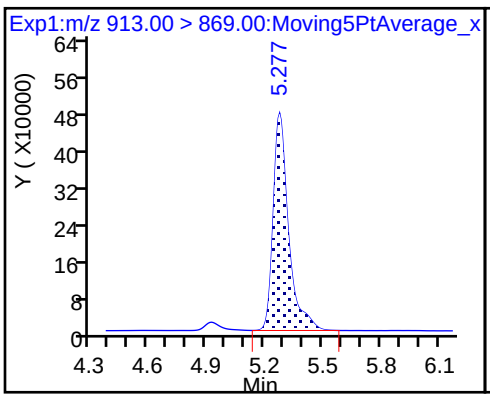
45 Perfluorohexadecanoic acid



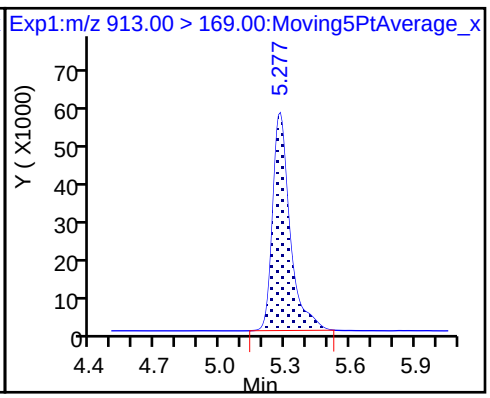
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-216698/11 Calibration Date: 04/06/2018 15:02

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_013.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9242	0.9365		2.53	2.50	1.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.197	1.166		2.44	2.50	-2.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	78.89	79.07		2.22	2.21	0.2	50.0
4:2 FTS	AveID	17.26	15.55		2.11	2.34	-9.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.023	1.077		2.63	2.50	5.3	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	71.20	73.12		2.41	2.35	2.7	50.0
HFPO-DA (GenX)	AveID	3.401	3.170		2.33	2.50	-6.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.087	1.018		2.34	2.50	-6.3	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.117	1.098		2.24	2.28	-1.7	40.0
Adona	AveID	3.564	3.701		2.60	2.50	3.8	50.0
6:2FTS	AveID	1.868	1.622		2.06	2.37	-13.2	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.134		2.39	2.50	-4.3	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.333	1.363		2.44	2.38	2.3	50.0
Perfluorononanoic acid (PFNA)	AveID	1.029	1.097		2.67	2.50	6.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.143	1.135		2.30	2.32	-0.7	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.870	2.038		2.54	2.33	9.0	50.0
8:2FTS	AveID	1.349	1.306		2.32	2.40	-3.2	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8018	0.8233		2.46	2.40	2.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9877	1.013		2.57	2.50	2.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9893	1.085		2.74	2.50	9.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.054	1.082		2.57	2.50	2.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6938	0.7159		2.49	2.41	3.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9171	0.9461		2.58	2.50	3.2	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8023	0.8457		2.64	2.50	5.4	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.902	3.183		2.58	2.36	9.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.081	1.061		2.46	2.50	-1.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.156	1.177		2.55	2.50	1.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2497	0.2411		2.41	2.50	-3.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9696		2.54	2.50	1.6	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Lab Sample ID: CCV 320-216698/11 Calibration Date: 04/06/2018 15:02

Instrument ID: A8_N Calib Start Date: 03/29/2018 17:27

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 03/29/2018 18:14

Lab File ID: 2018.04.06LLA_013.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.9928	0.9666		2.43	2.50	-2.6	50.0
13C4 PFBA	Ave	1.382	1.345		2.43	2.50	-2.7	50.0
13C5 PFPeA	Ave	0.8994	0.8673		2.41	2.50	-3.6	50.0
13C3-PFBS	Ave	0.0206	0.0201		2.27	2.33	-2.6	50.0
M2-4:2FTS	Ave	0.1573	0.1279		1.90	2.34	-18.7	50.0
13C2 PFHxA	Ave	0.9916	0.9428		2.38	2.50	-4.9	50.0
13C3 HFPO-DA	Ave	0.0494	0.0525		2.66	2.50	6.3	50.0
13C4-PFHpA	Ave	0.9533	0.9618		2.52	2.50	0.9	50.0
18O2 PFHxS	Ave	1.189	1.147		2.28	2.37	-3.5	50.0
M2-6:2FTS	Ave	0.2203	0.2109		2.27	2.38	-4.3	40.0
13C4 PFOA	Ave	0.9372	0.9678		2.58	2.50	3.3	50.0
13C4 PFOS	Ave	0.8257	0.8188		2.37	2.39	-0.8	50.0
13C5 PFNA	Ave	0.7930	0.8012		2.53	2.50	1.0	50.0
M2-8:2FTS	Ave	0.2562	0.2658		2.49	2.40	3.8	40.0
13C8 FOSA	Ave	1.166	1.175		2.52	2.50	0.7	50.0
13C2 PFDA	Ave	0.6698	0.7085		2.64	2.50	5.8	50.0
d3-NMeFOSAA	Ave	0.3583	0.3763		2.63	2.50	5.0	50.0
d5-NEtFOSAA	Ave	0.3760	0.4014		2.67	2.50	6.8	50.0
13C2 PFUnA	Ave	0.5468	0.6157		2.82	2.50	12.6	50.0
13C2 PFDoA	Ave	0.6087	0.7187		2.95	2.50	18.1	50.0
13C2-PFTeDA	Ave	0.7733	0.9322		3.01	2.50	20.6	50.0
13C2-PFHxDA	Ave	1.194	1.473		3.08	2.50	23.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_013.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 06-Apr-2018 15:02:57 ALS Bottle#: 29 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 06-Apr-2018 15:13:43 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK012

First Level Reviewer: westendorfc Date: 06-Apr-2018 15:13:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.430	0.0	1.000	5583535	2.53		101	2223	
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.430	0.0	1.000	5962202	2.43		97.3	49293	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.694	1.694	0.0	1.000	4483804	2.44		97.5	3197	
D 3 13C5-PFPeA										
267.90 > 223.00	1.694	1.694	0.0	0.561	3844137	2.41		96.4	72761	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.730	1.730	0.0	1.000	6218677	2.22		100	43432	
298.90 > 99.00	1.730	1.730	0.0	1.000	2625877		2.37(1.25-3.74)		22219	
D 47 13C3-PFBS										
301.90 > 83.00	1.730	1.730	0.0	1.000	82739	2.27		97.4	727	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.939	1.939	0.0	1.000	1292296	2.10		90.1	50695	
D 60 M2-4:2FTS										
329.00 > 81.00	1.939	1.939	0.0	1.000	529311	1.90		81.3	5943	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.971	1.971	0.0	0.995	4502937	2.63		105	8898	
313.00 > 119.00	1.971	1.971	0.0	0.995	405484		11.11(5.03-15.10)		5203	
D 7 13C2 PFHxA										
315.00 > 270.00	1.982	1.971	0.011	1.000	4179096	2.38		95.1	90902	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.004	2.004	0.0	1.000	6101714	2.41		103	93263	
349.00 > 99.00	1.993	2.004	-0.011	0.994	2232764		2.73(1.36-4.07)		22596	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.072	2.072	0.0	1.000	737802	2.33		93.2	6584	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.072	2.072	0.0	1.000	232745	2.66		106	7115	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.308	2.308	0.0	1.000	4341780	2.34		93.7	3908	
363.00 > 169.00	2.308	2.308	0.0	1.000	1710049		2.54(1.13-3.40)		6252	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.308	2.308	0.0	0.994	5080928	2.24		98.3	20982	
399.00 > 99.00	2.321	2.308	0.013	1.000	1714131		2.96(1.50-4.49)		6340	
D 9 13C4-PFHpA										
367.00 > 322.00	2.308	2.308	0.0	1.000	4262977	2.52		101	86526	
D 11 18O2 PFHxS										
403.00 > 84.00	2.321	2.321	0.0	1.000	4808856	2.28		96.5	75352	
65 Adona										
377.00 > 251.00	2.347	2.347	0.0	1.000	13430698	2.60		104	216553	
377.00 > 85.00	2.347	2.347	0.0	1.000	7730375		1.74(0.84-2.53)		44545	
D 12 M2-6:2FTS										
429.00 > 81.00	2.629	2.629	0.0	1.000	888109	2.27		95.7	19760	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.629	2.629	0.0	1.000	1437270	2.06		86.8	15939	
* 62 13C2-PFOA										
415.00 > 370.00	2.654	2.654	0.0		4432536	2.50			80160	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.654	2.654	0.0	1.000	4866034	2.39		95.7	3053	
413.00 > 169.00	2.654	2.654	0.0	1.000	2457955		1.98(0.84-2.52)		7142	
D 14 13C4 PFOA										
417.00 > 372.00	2.654	2.660	-0.006	1.000	4289605	2.58		103	110894	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.661	2.661	0.0	1.000	4710241	2.43		102	47739	
449.00 > 99.00	2.661	2.661	0.0	1.000	1268155		3.71(1.94-5.82)		12799	
20 Perfluorononanoic acid										
463.00 > 419.00	3.021	3.021	0.0	1.000	3897384	2.67		107	13067	
463.00 > 169.00	3.021	3.021	0.0	1.000	865062		4.51(1.90-5.69)		26789	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.021	3.021	0.0	1.000	3821023	2.30		99.3	47922	
499.00 > 99.00	3.021	3.021	0.0	1.000	816460		4.68(2.31-6.93)		7190	
D 18 13C4 PFOS										
503.00 > 80.00	3.021	3.021	0.0	1.000	3469479	2.37		99.2	41534	
D 19 13C5 PFNA										
468.00 > 423.00	3.021	3.028	-0.007	1.000	3551196	2.53		101	93981	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.236	3.236	0.0	1.000	6893382	2.54		109	9965	
D 21 13C8 FOSA										
506.00 > 78.00	3.374	3.356	0.018	1.000	5208297	2.52		101	45534	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.365	3.365	0.0	1.000	1474112	2.32		96.8	24475	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.365	3.365	0.0	1.000	2868341	2.46		103	49784	
549.00 > 99.00	3.365	3.365	0.0	1.000	1053800		2.72(1.33-3.97)		13666	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.374	3.374	0.0	1.000	5277685	2.56		103	58319	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.374	-0.009	1.000	1128849	2.49		104	27148	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.383	3.383	0.0	1.000	3406574	2.74		110	15510	
513.00 > 169.00	3.383	3.383	0.0	1.000	566008		6.02(2.36-7.09)		13587	
D 23 13C2 PFDA										
515.00 > 470.00	3.383	3.384	-0.001	1.000	3140291	2.64		106	74722	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.533	3.533	0.0	1.000	1805109	2.57		103	11127	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.533	3.542	-0.009	1.000	1667805	2.63		105	19441	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.690	0.0	1.000	2504643	2.49		103	33984	
599.00 > 99.00	3.690	3.690	0.0	1.000	853111		2.94(1.39-4.16)		13604	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.711	0.0	1.003	1683295	2.58		103	43239	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.711	0.0	1.000	2307801	2.64		105	11060	
563.00 > 169.00	3.711	3.711	0.0	1.000	562549		4.10(2.12-6.36)		14726	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.701	3.711	-0.010	1.000	1779166	2.67		107	9851	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.722	-0.011	1.000	2728955	2.82		113	30689	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.869	3.869	0.0	1.000	10881718	2.58		110	61499	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.000	4.000	0.0	1.000	3380941	2.46		98.2	1671	
613.00 > 169.00	4.000	4.000	0.0	1.000	832092		4.06(2.13-6.40)		11061	
D 36 13C2 PFDoA										
615.00 > 570.00	4.000	4.011	-0.011	1.000	3185491	2.95		118	25708	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.263	4.263	0.0	1.000	3748438	2.54		102	1868	
663.00 > 169.00	4.263	4.263	0.0	1.000	1162940		3.22(1.25-3.76)		10741	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.503	4.503	0.0	1.000	996357	2.41		96.5	7810	
713.00 > 219.00	4.492	4.503	-0.011	0.998	725119		1.37(0.71-2.13)		5357	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.503	4.513	-0.010	1.000	4132047	3.01		121	18209	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.907	4.907	0.0	1.000	6328889	2.54		102	1259	
813.00 > 169.00	4.907	4.907	0.0	1.000	1012034		6.25(2.86-8.58)		3273	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.907	4.933	-0.026	1.000	6527107	3.08		123	13512	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.256	5.256	0.0	1.000	6308946	2.43		97.4	1239	
913.00 > 169.00	5.256	5.256	0.0	1.000	753893		8.37(3.83-11.48)		2614	

Reagents:

LCPFC_LL5_00004 Amount Added: 1.00 Units: mL

Report Date: 06-Apr-2018 15:13:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_013.d

Injection Date: 06-Apr-2018 15:02:57 Instrument ID: A8_N

Lims ID: CCV L5

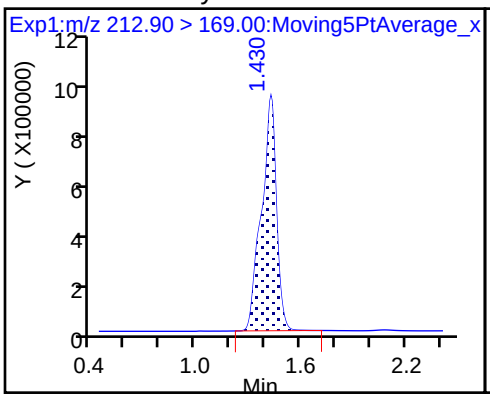
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 11

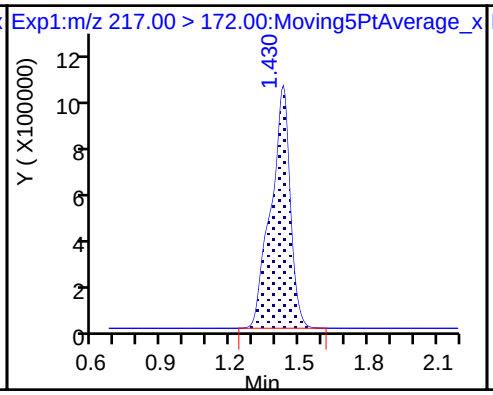
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

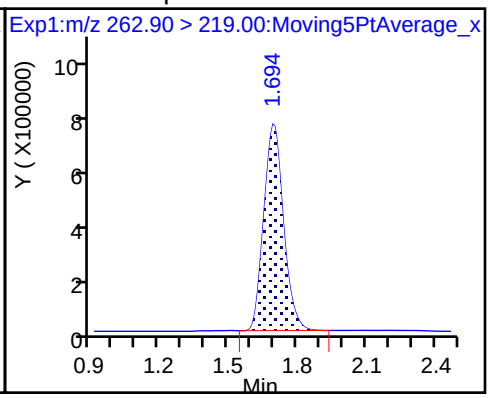
2 Perfluorobutyric acid



D 1 13C4 PFBA



4 Perfluoropentanoic acid



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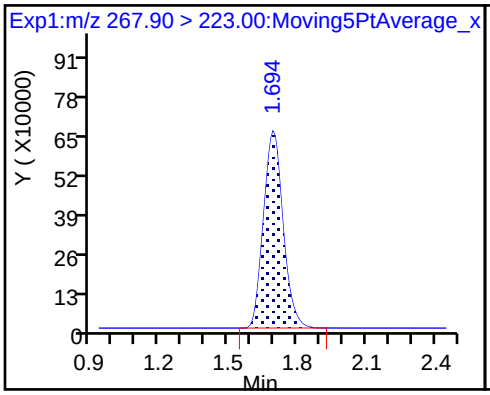
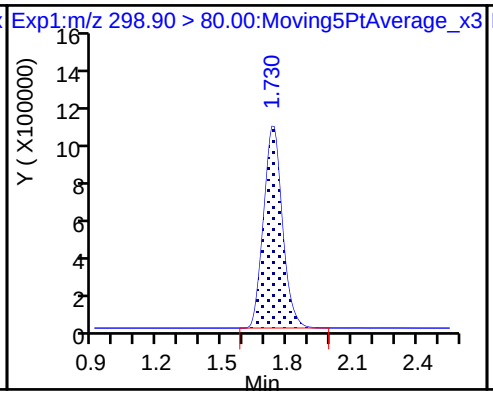
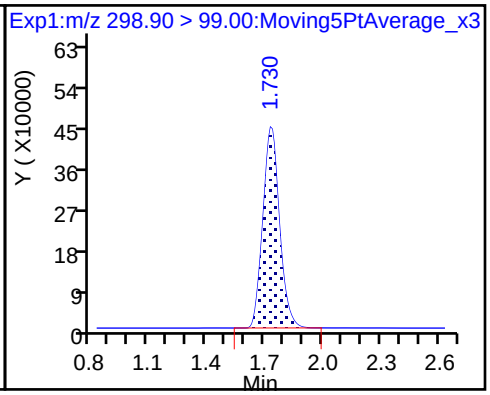


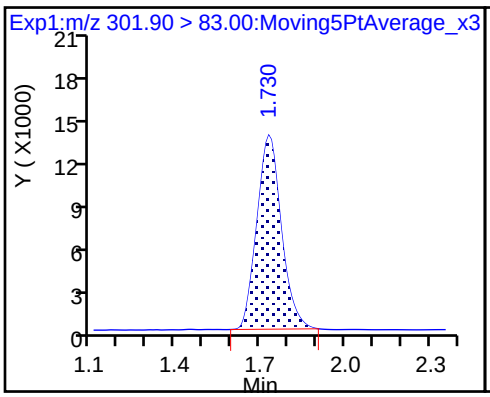
5 Perfluorobutanesulfonic acid



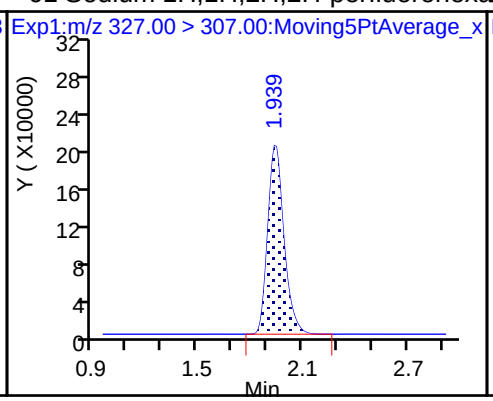
5 Perfluorobutanesulfonic acid



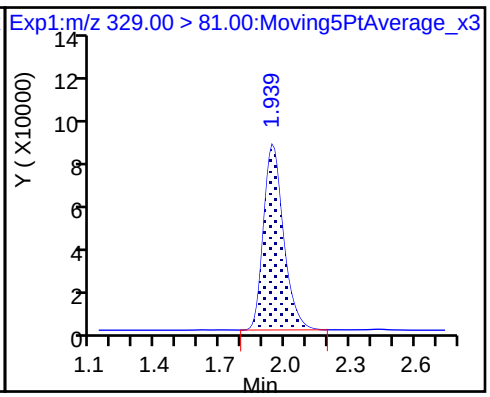
D 47 13C3-PFBS



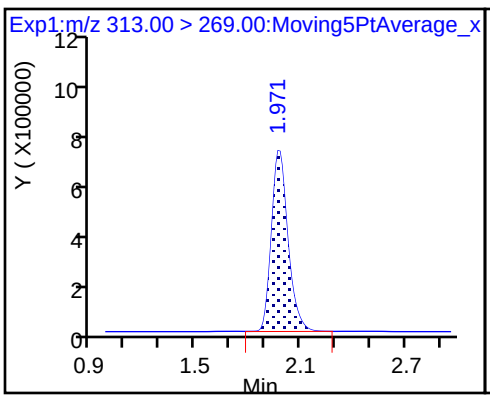
61 Sodium 1H,1H,2H,2H-perfluorohexane



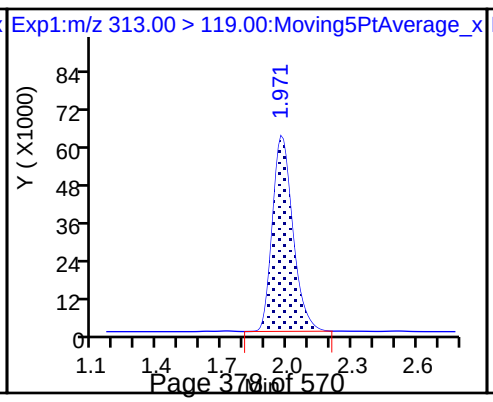
D 60 M2-4:2FTS



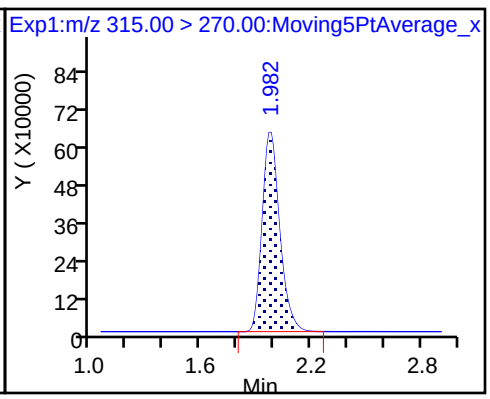
6 Perfluorohexanoic acid



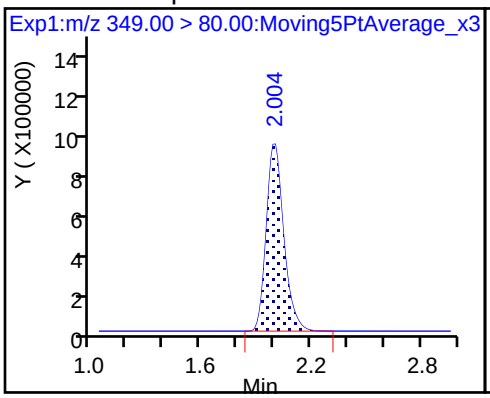
6 Perfluorohexanoic acid



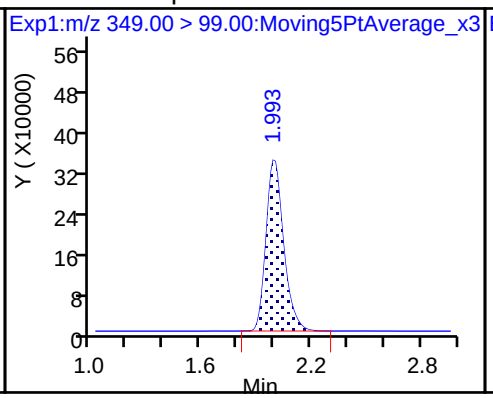
D 7 13C2 PFHxA



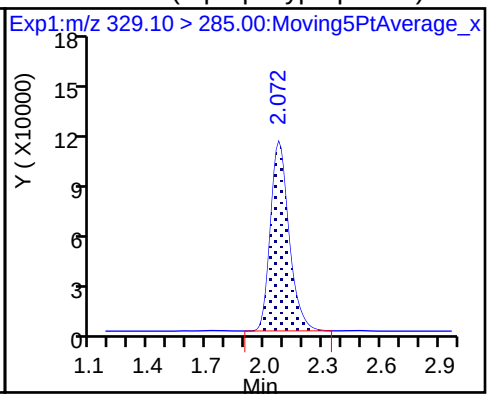
70 Perfluoropentanesulfonic acid



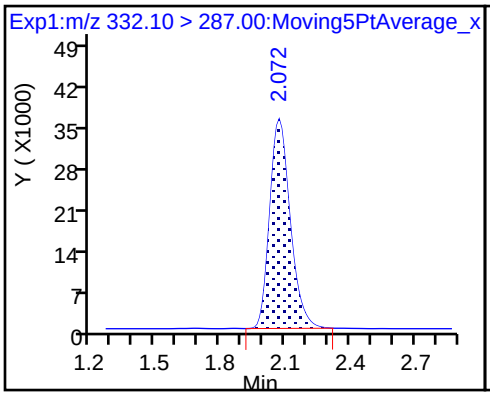
70 Perfluoropentanesulfonic acid



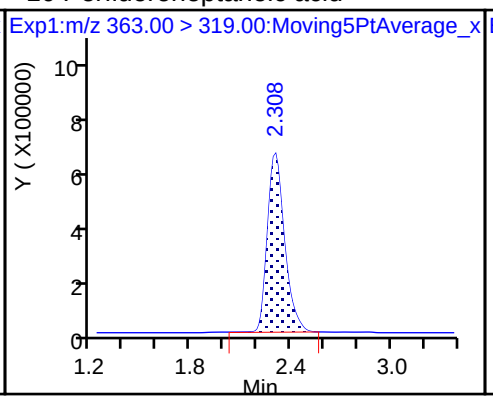
67 Perfluoro(2-propoxypropanoic) acid



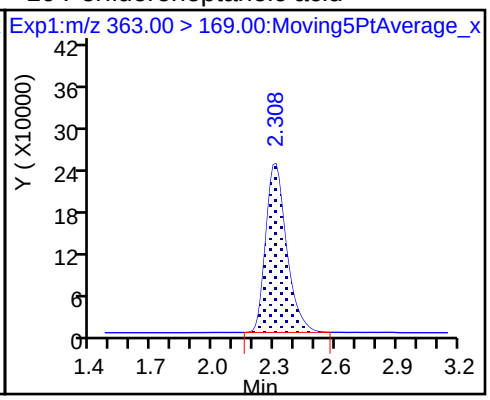
D 64 13C3 HFPO-DA



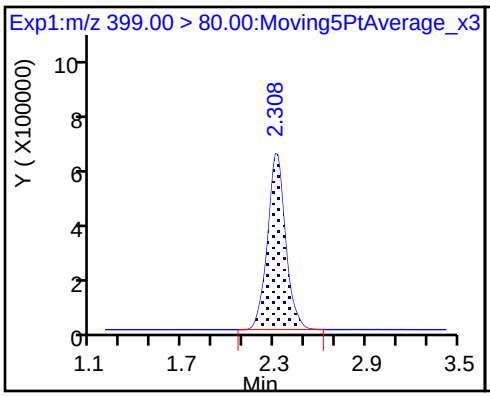
10 Perfluoroheptanoic acid



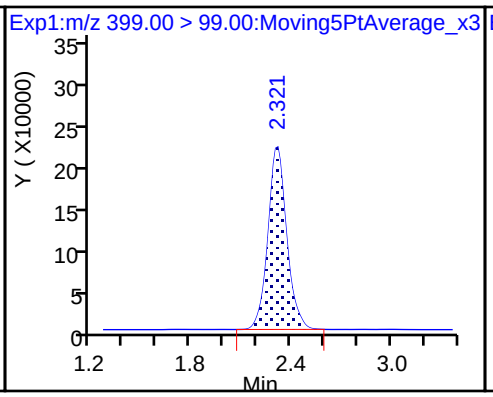
10 Perfluoroheptanoic acid



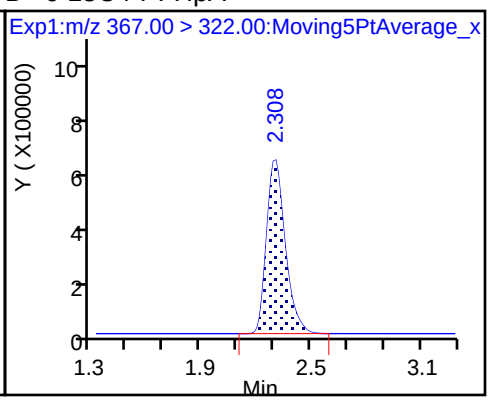
8 Perfluorohexanesulfonic acid



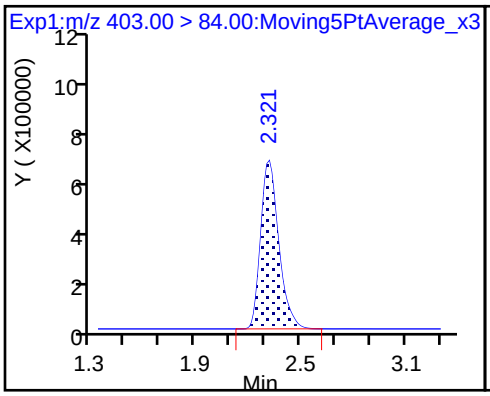
8 Perfluorohexanesulfonic acid



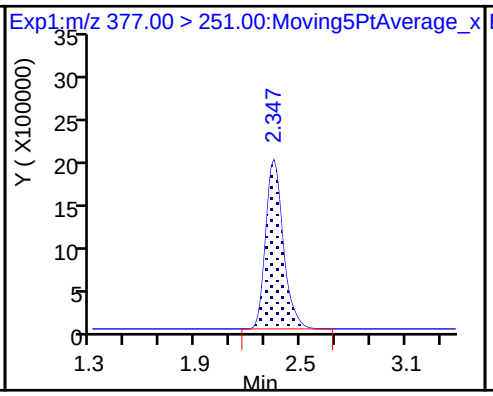
D 9 13C4-PFHpA



D 11 18O2 PFHxS



65 Adona



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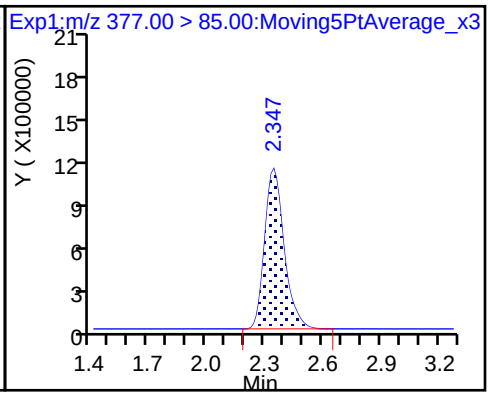
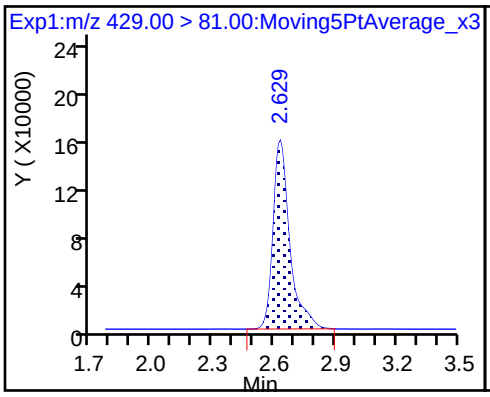
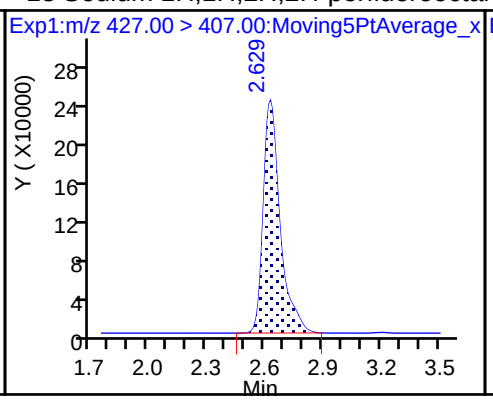


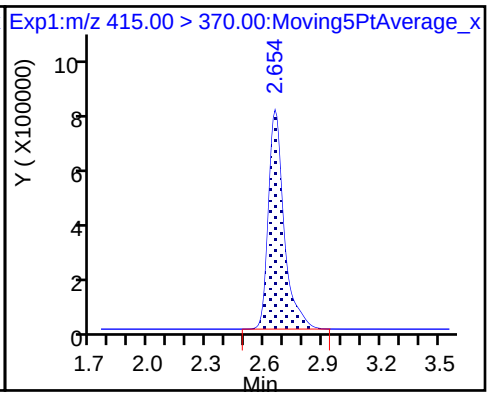
D 12 M2-6:2FTS



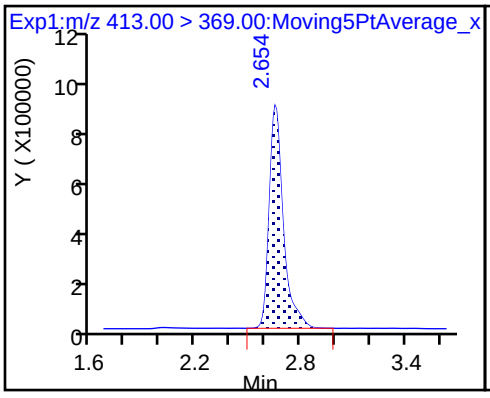
13 Sodium 1H,1H,2H,2H-perfluorooctane



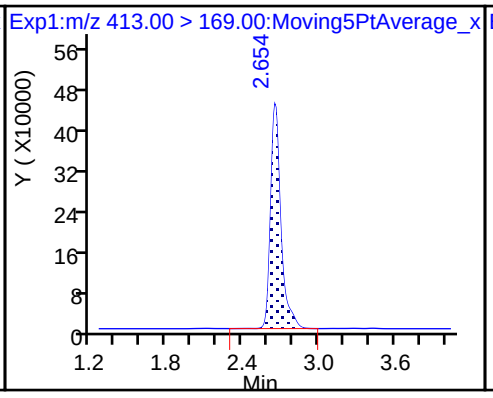
M2 13C2-PFOA



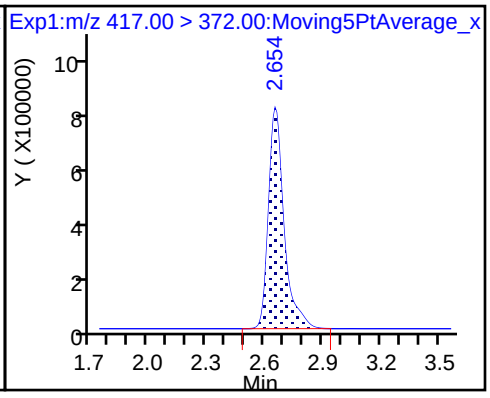
15 Perfluorooctanoic acid



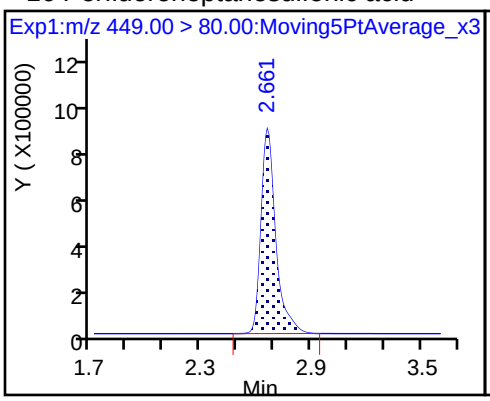
15 Perfluorooctanoic acid



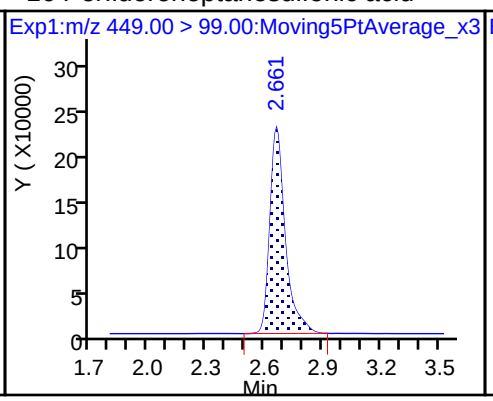
D 14 13C4 PFOA



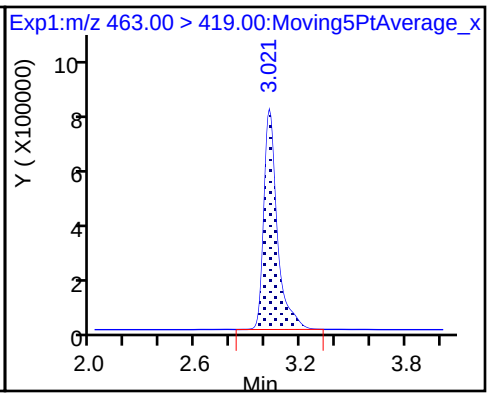
16 Perfluoroheptanesulfonic acid



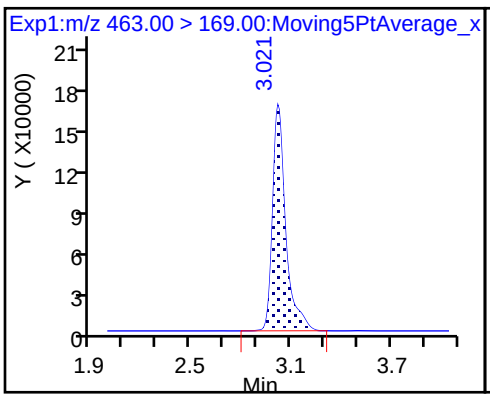
16 Perfluoroheptanesulfonic acid



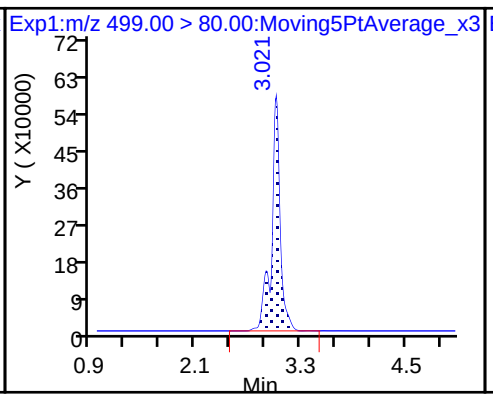
20 Perfluorononanoic acid



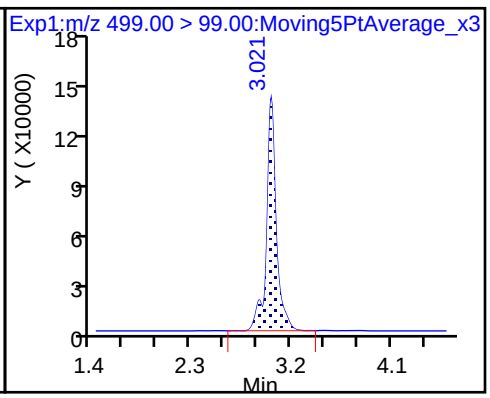
20 Perfluorononanoic acid



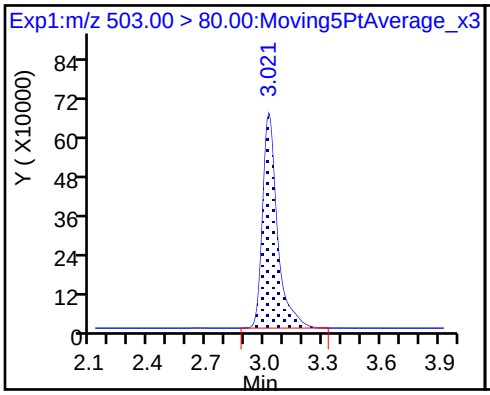
17 Perfluorooctane sulfonic acid



17 Perfluorooctane sulfonic acid



D 18 13C4 PFOS



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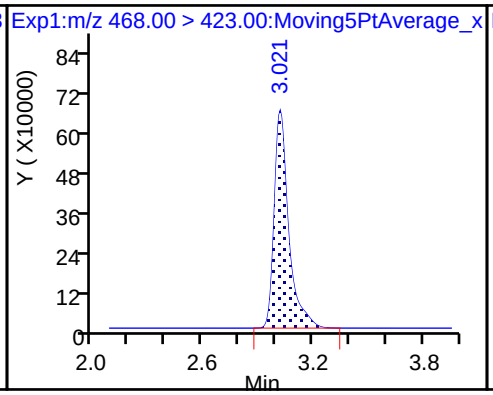
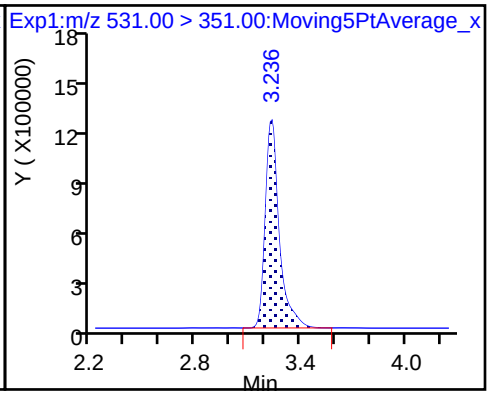
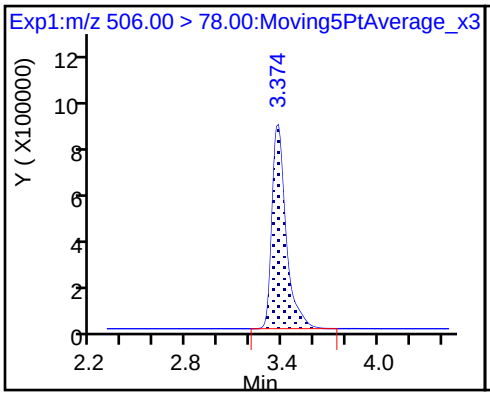


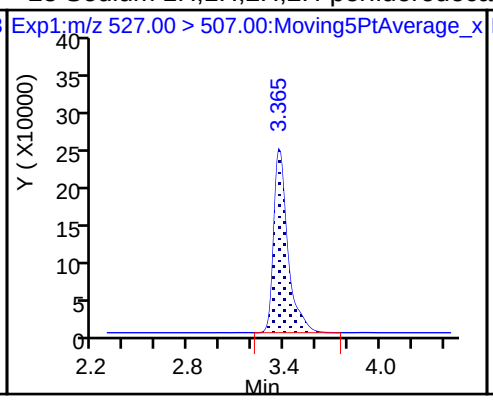
69 9-Chlorohexadecafluoro-3-oxanonane



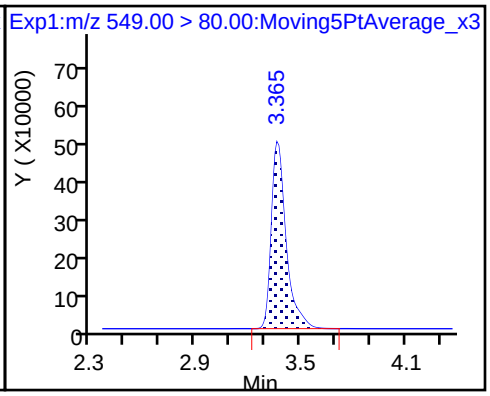
D 21 13C8 FOSA



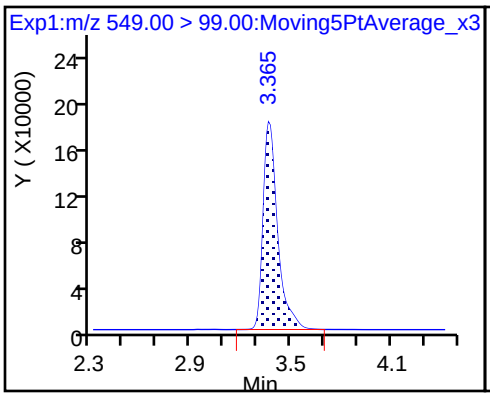
25 Sodium 1H,1H,2H,2H-perfluorodecane



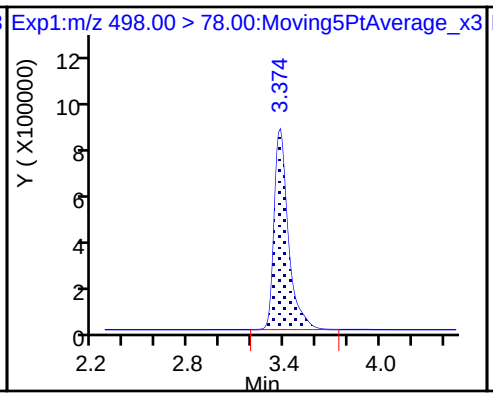
68 Perfluorononanesulfonic acid



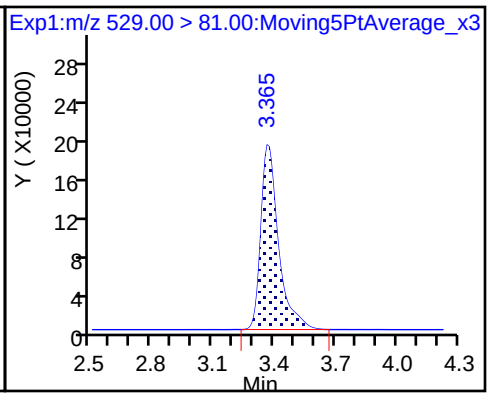
68 Perfluorononanesulfonic acid



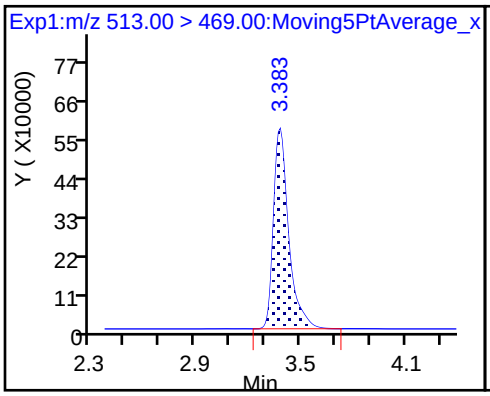
22 Perfluorooctane Sulfonamide



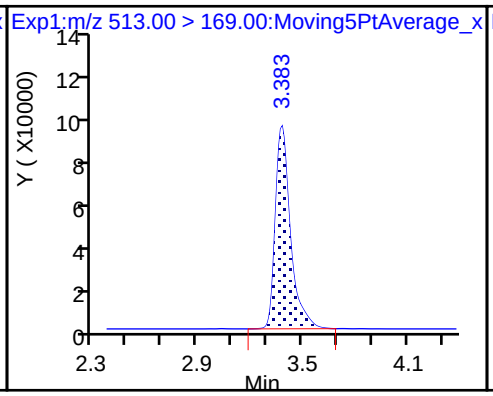
D 26 M2-8:2FTS



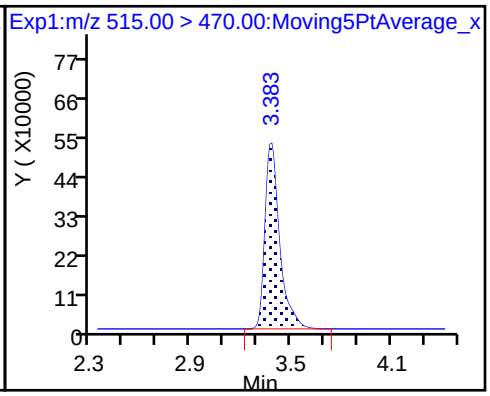
24 Perfluorodecanoic acid



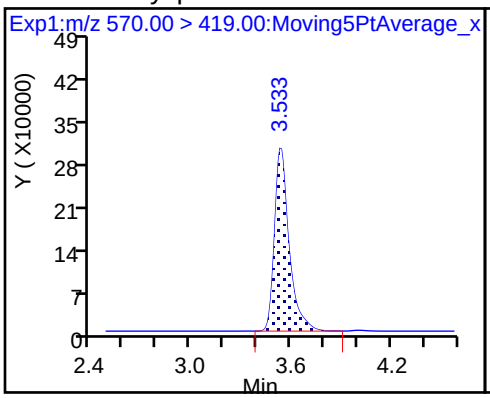
24 Perfluorodecanoic acid



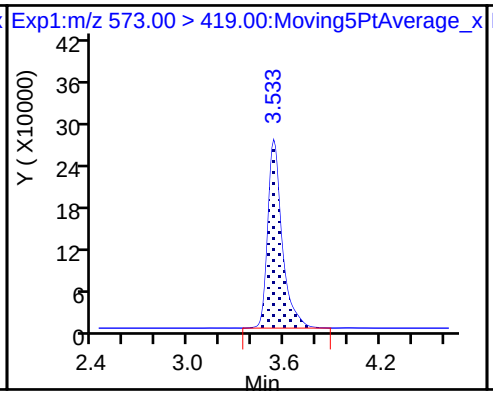
D 23 13C2 PFDA



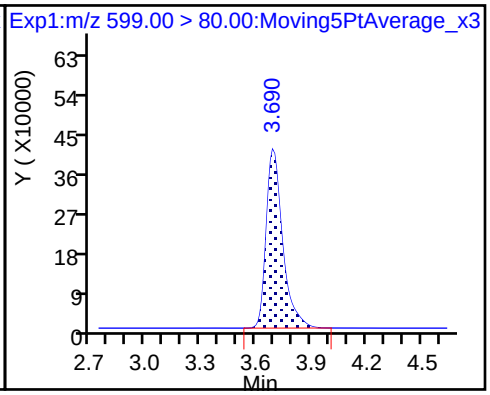
28 N-methyl perfluorooctane sulfonami



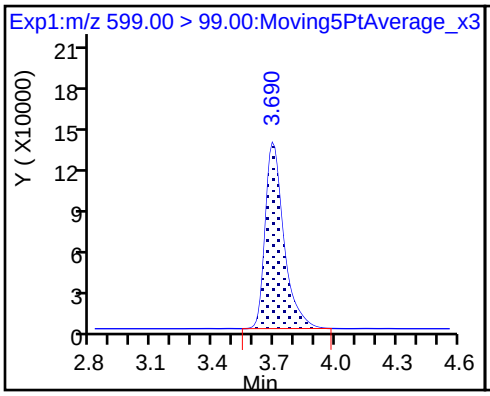
D 27 d3-NMeFOSAA



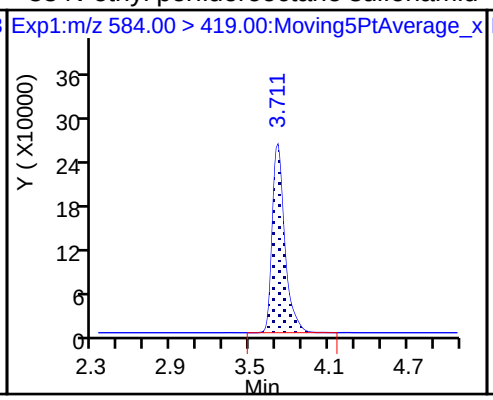
29 Perfluorodecane Sulfonic acid



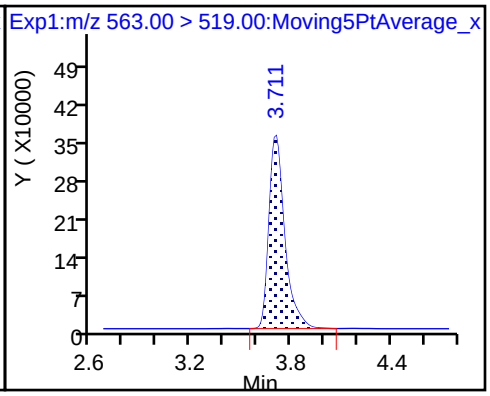
29 Perfluorodecane Sulfonic acid



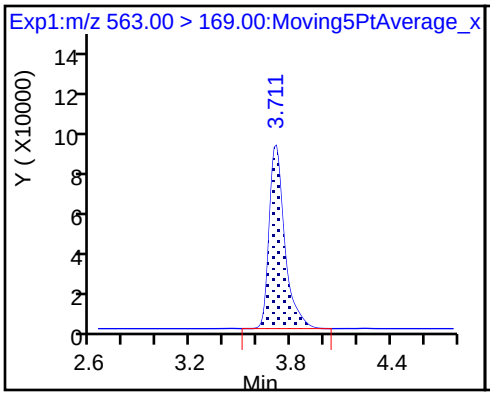
33 N-ethyl perfluorooctane sulfonamid



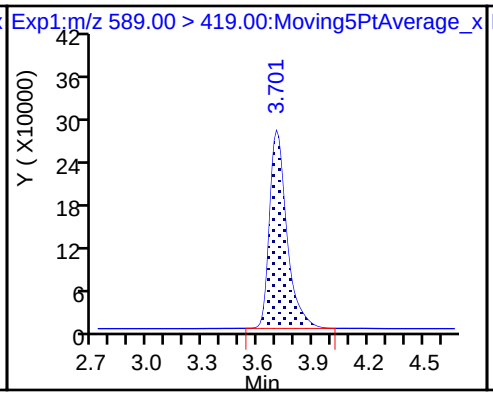
31 Perfluoroundecanoic acid



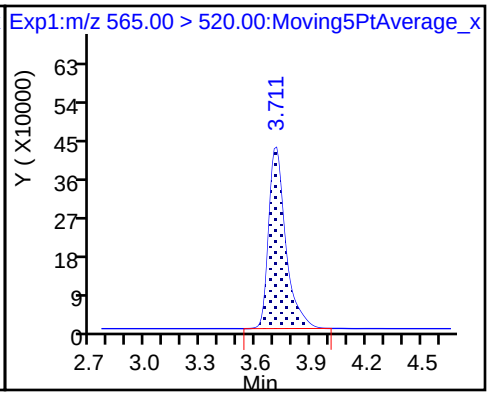
31 Perfluoroundecanoic acid



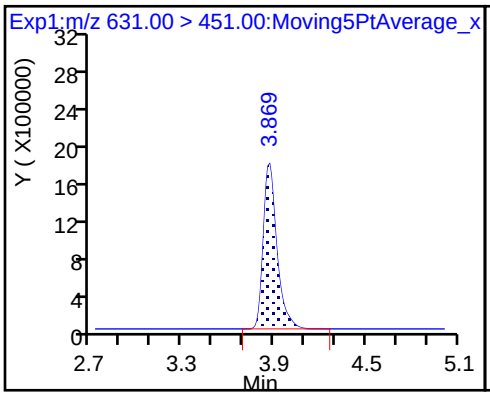
D 32 d5-NEtFOSAA



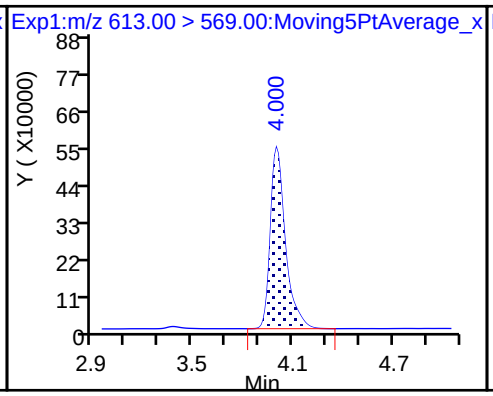
D 30 13C2 PFUnA



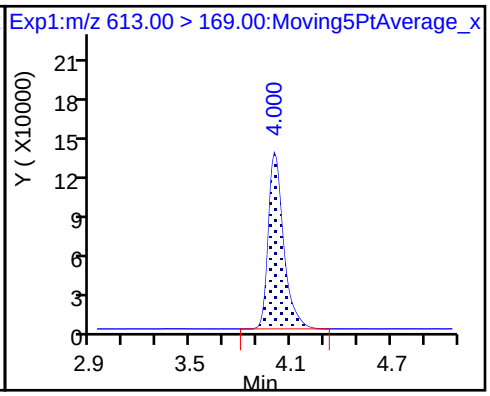
66 11-Chloroeicosafluoro-3-oxaundecan



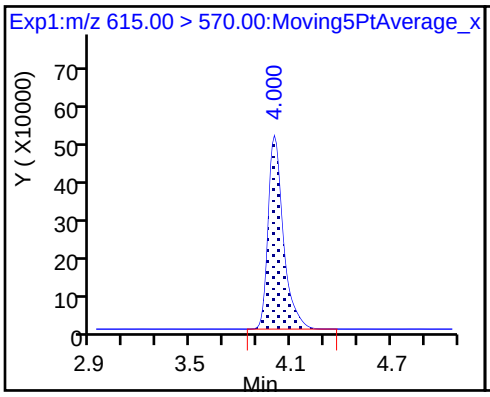
37 Perfluorododecanoic acid



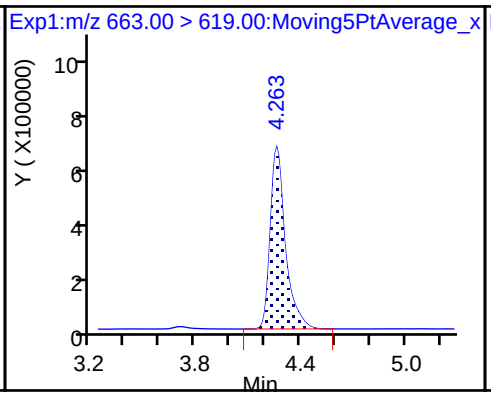
37 Perfluorododecanoic acid



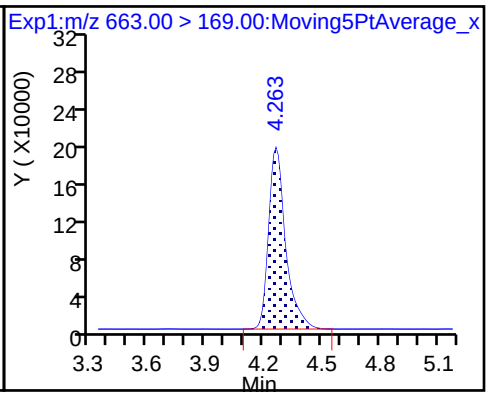
D 36 13C2 PFDoA



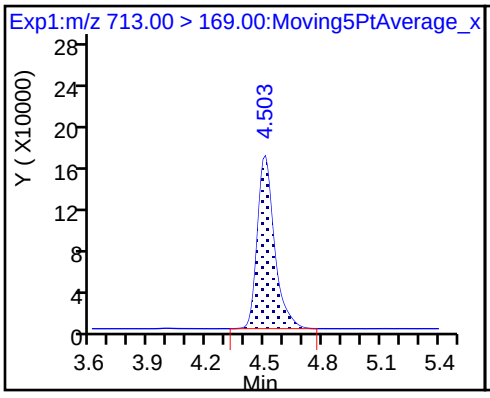
41 Perfluorotridecanoic acid



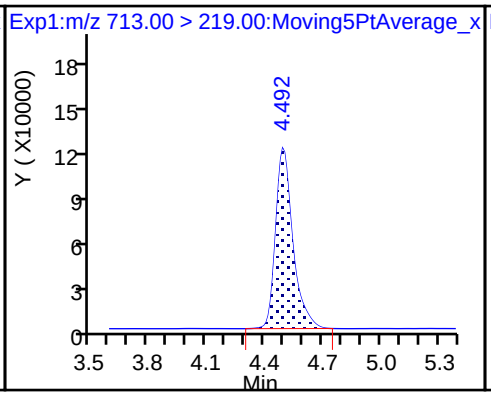
41 Perfluorotridecanoic acid



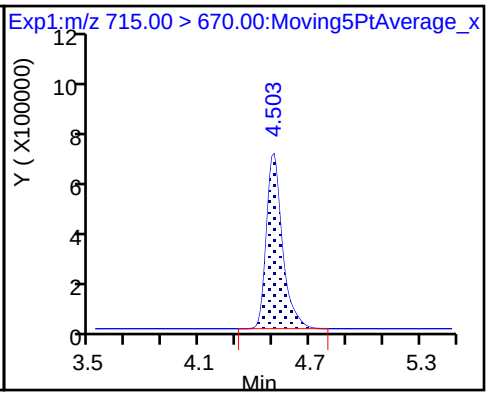
42 Perfluorotetradecanoic acid



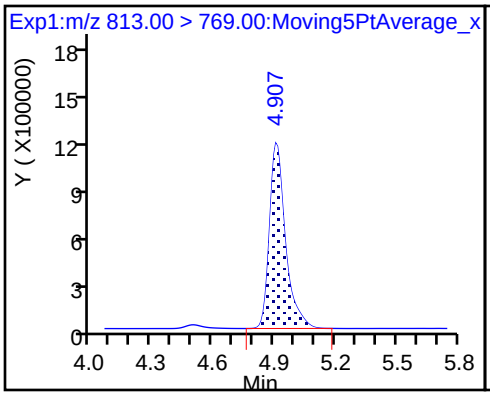
42 Perfluorotetradecanoic acid



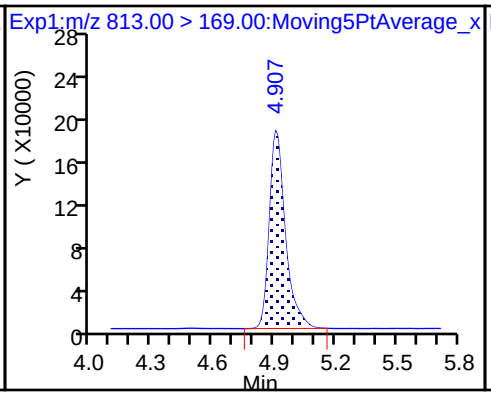
D 43 13C2-PFTeDA



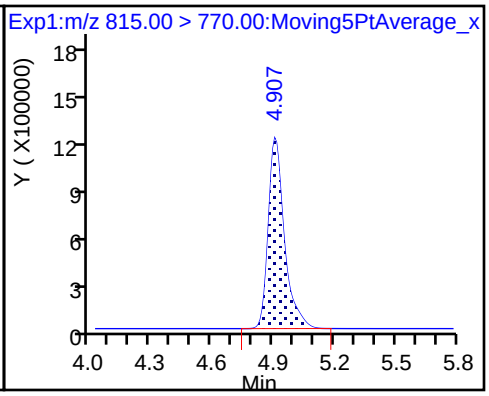
45 Perfluorohexadecanoic acid



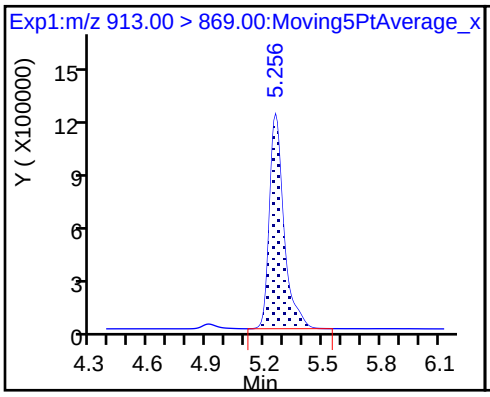
45 Perfluorohexadecanoic acid



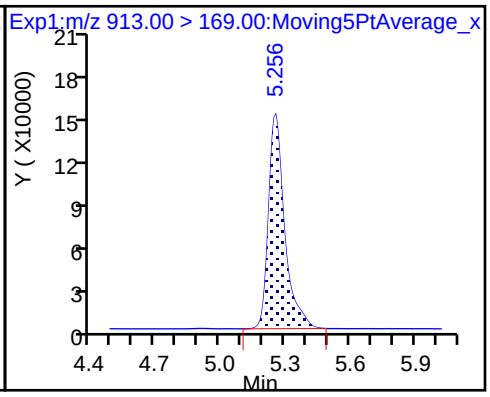
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-215068/1-A

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_033.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:08

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.000028	U	0.00020	0.000028
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.000077	U	0.00020	0.000077
307-24-4	Perfluorohexanoic acid (PFHxA)	0.000042	U	0.00020	0.000042
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.000029	U	0.00020	0.000029
335-67-1	Perfluorooctanoic acid (PFOA)	0.000086	U	0.00020	0.000086
375-95-1	Perfluorononanoic acid (PFNA)	0.000036	U	0.00020	0.000036
335-76-2	Perfluorodecanoic acid (PFDA)	0.000022	U	0.00020	0.000022
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.000036	U	0.00020	0.000036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.000067	U	0.00020	0.000067
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	0.000051	U	0.00020	0.000051
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.000054	U	0.00020	0.000054
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.000025	U	0.00020	0.000025
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.000031	U	0.00020	0.000031
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.000035	U	0.00020	0.000035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.000257	J	0.00050	0.00020
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.000039	U	0.00020	0.000039
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.000082	U	0.00020	0.000082
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00039	U	0.0020	0.00039
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00037	U	0.0020	0.00037
27619-97-2	6:2FTS	0.0502		0.0020	0.00015
39108-34-4	8:2FTS	0.00025	U	0.0020	0.00025

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-215068/1-A

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_033.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:08

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84		25-150
STL01893	13C5 PFPeA	85		25-150
STL00993	13C2 PFHxA	86		25-150
STL01892	13C4-PFHpA	94		25-150
STL00990	13C4 PFOA	88		25-150
STL00995	13C5 PFNA	89		25-150
STL00996	13C2 PFDA	90		25-150
STL00997	13C2 PFUnA	94		25-150
STL00998	13C2 PFDoA	91		25-150
STL02116	13C2-PFTeDA	94		25-150
STL02337	13C3-PFBS	82		25-150
STL00994	18O2 PFHxS	93		25-150
STL00991	13C4 PFOS	85		25-150
STL01056	13C8 FOSA	74		25-150
STL02118	d3-NMeFOSAA	77		25-150
STL02117	d5-NEtFOSAA	77		25-150
STL02279	M2-6:2FTS	93		25-150
STL02280	M2-8:2FTS	91		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_033.d
Lims ID: MB 320-215068/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Mar-2018 18:08:38 ALS Bottle#: 24 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-215068/1-a
Misc. Info.: Plate: 1 Rack: 6
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:08:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.435	-0.005	1.000	6203555	2.11		84.4	43526	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.435	1.442	-0.007	1.004	30979	0.0135			6.7	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.693	1.701	-0.008	0.554	4043518	2.11		84.6	82681	
D 47 13C3-PFBS										
301.90 > 83.00	1.729	1.737	-0.008	1.000	83674	1.91		82.2	664	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.949	1.961	-0.013	1.000	18102	0.0291			1135	
D 7 13C2 PFHxA										
315.00 > 270.00	1.981	1.991	-0.010	1.000	4529382	2.15		85.9	97912	
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.319	0.001	1.000	4758827	2.35		93.9	110310	
D 11 18O2 PFHxS										
403.00 > 84.00	2.333	2.332	0.001	1.000	5532438	2.19		92.6	89689	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.333	2.336	-0.003	1.000	16966	0.006493			73.4	
399.00 > 99.00	2.333	2.336	-0.003	1.000	5830		2.91(1.50-4.49)		25.9	
D 12 M2-6:2FTS										
429.00 > 81.00	2.660	2.655	0.005	1.000	1035408	2.21		93.1	21457	
13 Sodium 1H,1H,2H,2H-perfluorooctane										E
427.00 > 407.00	2.653	2.668	-0.015	0.997	20427838	25.1			108356	E
D 14 13C4 PFOA										
417.00 > 372.00	2.683	2.685	-0.002	1.000	4399072	2.21		88.3	85114	
* 62 13C2-PFOA										
415.00 > 370.00	2.683	2.691	-0.008		5316437	2.50			95511	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.683	2.691	-0.008	1.000	25466	0.0122			8.7	M
413.00 > 169.00	2.683	2.691	-0.008	1.000	13192		1.93(0.84-2.52)		37.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.050	3.051	-0.001	1.000	3548689	2.02		84.6	28002	
D 19 13C5 PFNA										
468.00 > 423.00	3.056	3.051	0.005	1.000	3754274	2.23		89.1	91896	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.056	3.060	-0.004	1.002	217764	0.1284			610	
499.00 > 99.00	3.056	3.060	-0.004	1.002	53666		4.06(2.31-6.93)		517	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	4592457	1.85		74.1	49909	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.395	3.398	-0.003	1.003	4542	0.002503			66.6	
D 26 M2-8:2FTS										
529.00 > 81.00	3.404	3.407	-0.003	1.000	1190585	2.19		91.3	23274	
D 23 13C2 PFDA										
515.00 > 470.00	3.413	3.416	-0.003	1.000	3221030	2.26		90.5	52780	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.404	3.417	-0.013	1.000	56628	0.0845			1269	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.571	3.574	-0.003	1.000	1464740	1.92		76.9	30888	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.737	3.740	-0.003	1.000	1541236	1.93		77.1	18843	
D 30 13C2 PFUnA										
565.00 > 520.00	3.747	3.750	-0.003	1.000	2729075	2.35		93.9	39458	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.758	3.751	0.007	1.006	3259	0.005764			58.7	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.747	3.751	-0.004	1.000	4042	0.004615			19.5	
563.00 > 169.00	3.747	3.751	-0.004	1.000	1880		2.15(2.12-6.36)		69.6	
D 36 13C2 PFDoA										
615.00 > 570.00	4.036	4.040	-0.004	1.000	2945522	2.28		91.0	22919	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.540	4.544	-0.004	1.000	3858149	2.35		93.9	18841	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.955	4.959	-0.004	1.000	6253249	2.46		98.5	14424	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.964	4.966	-0.002	1.002	57339	0.002809			16.0	
813.00 > 169.00	4.964	4.966	-0.002	1.002	9412		6.09(2.86-8.58)		76.4	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Report Date: 07-Apr-2018 11:36:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_033.d

Injection Date: 30-Mar-2018 18:08:38 Instrument ID: A8_N

Lims ID: MB 320-215068/1-A

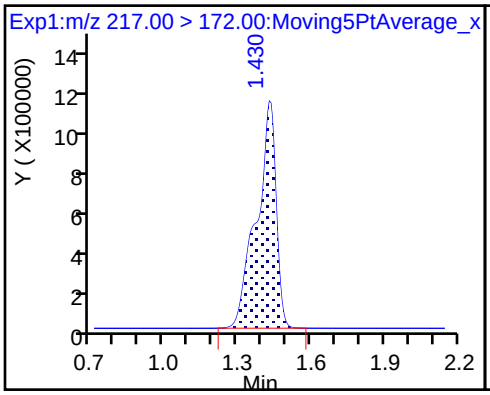
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 24 Worklist Smp#: 2

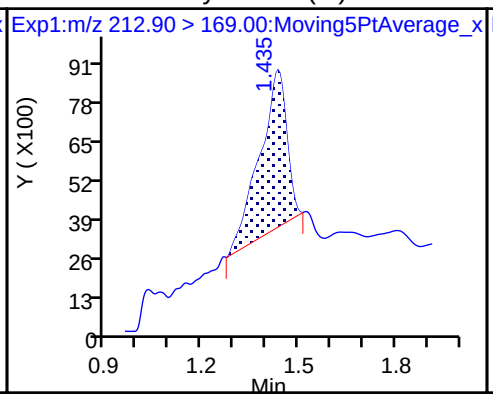
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutyric acid (M)



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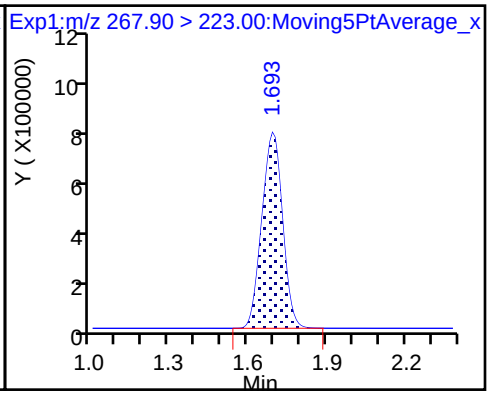
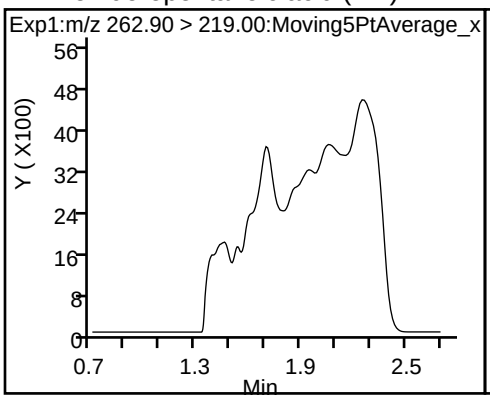
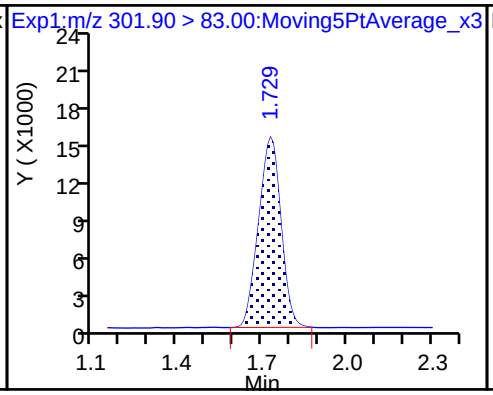


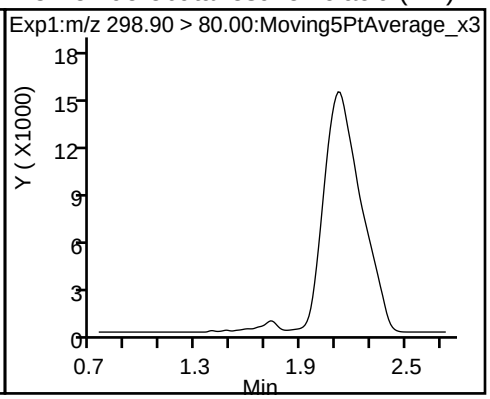
4 Perfluoropentanoic acid (ND)



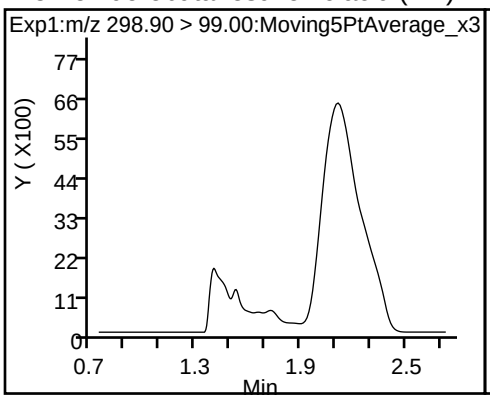
D 47 13C3-PFBS



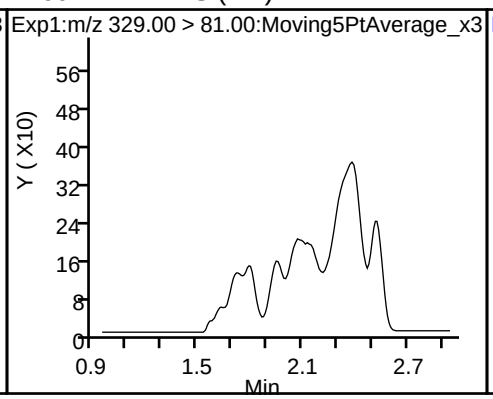
5 Perfluorobutanesulfonic acid (ND)



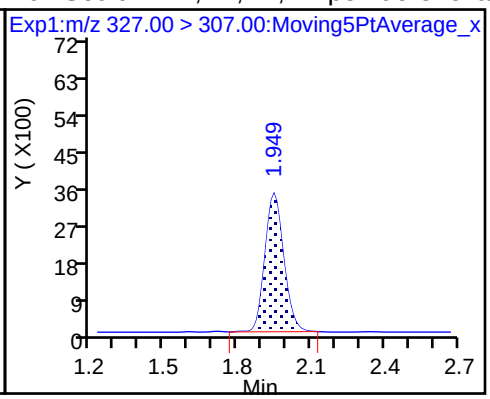
5 Perfluorobutanesulfonic acid (ND)



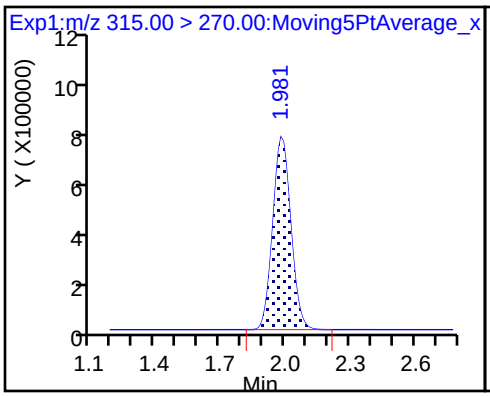
D 60 M2-4:2FTS (ND)



61 Sodium 1H,1H,2H,2H-perfluorohexane



D 7 13C2 PFHxA



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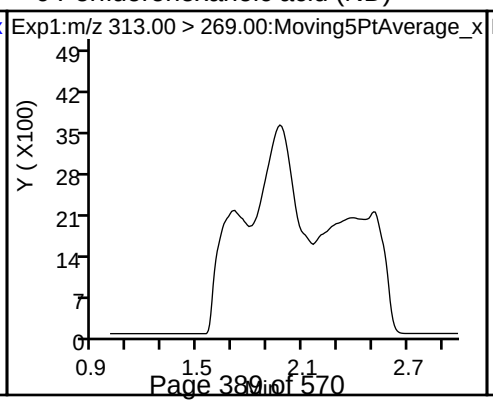

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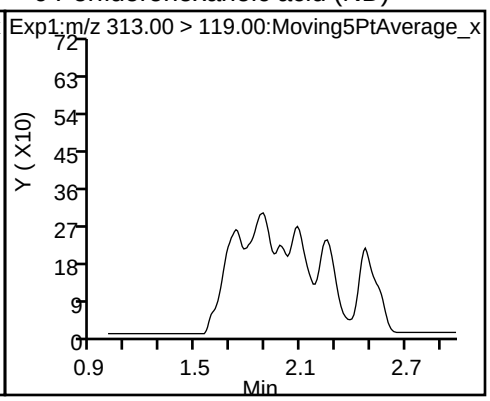

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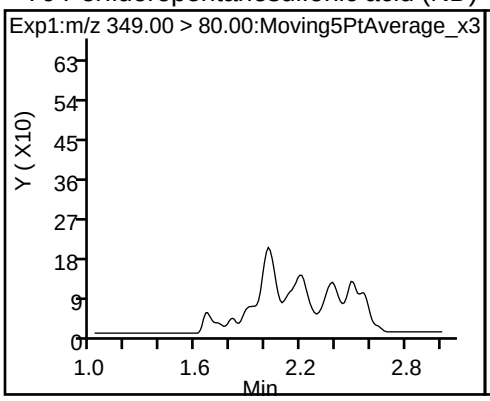
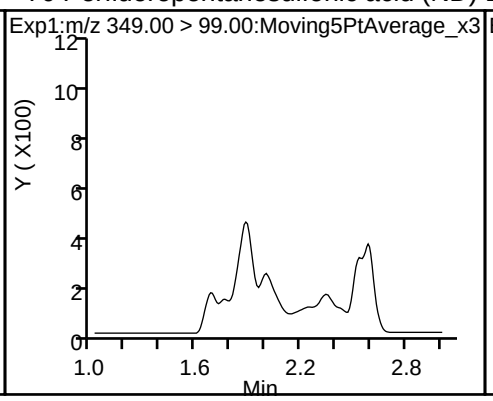
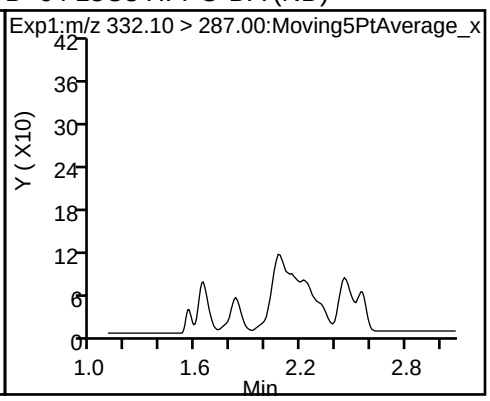
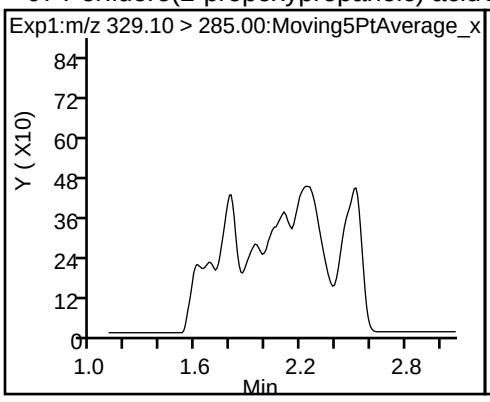


70 Perfluoropentanesulfonic acid (ND) D 64 13C3 HFPO-DA (ND)

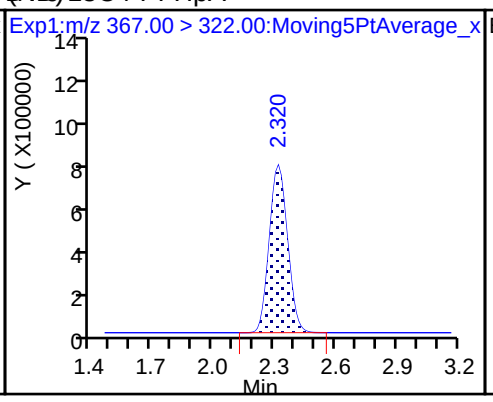




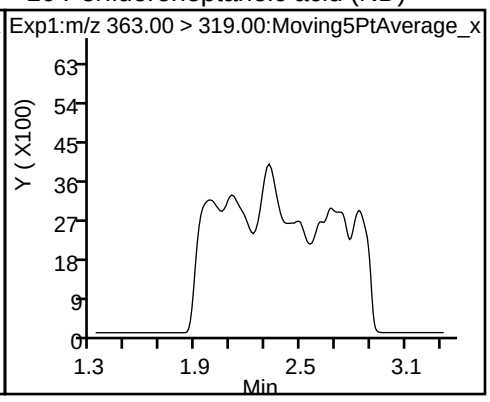
67 Perfluoro(2-propoxypropanoic) acid (ND)



D 9 13C4-PFHpA



10 Perfluoroheptanoic acid (ND)



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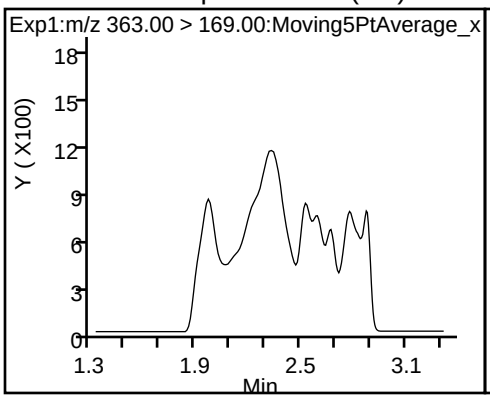
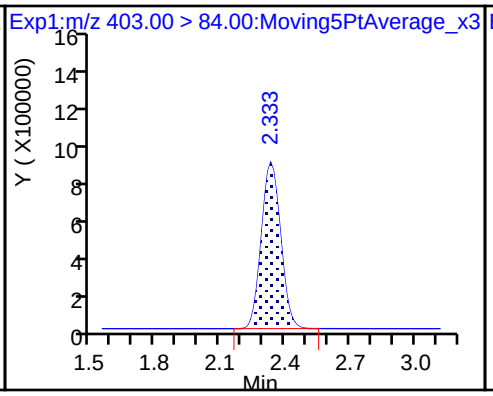
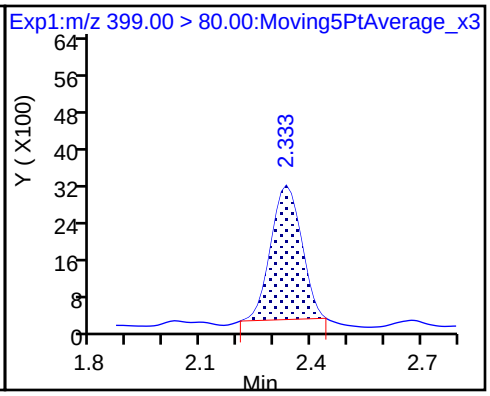


D 11 18O2 PFHxS



8 Perfluorohexanesulfonic acid



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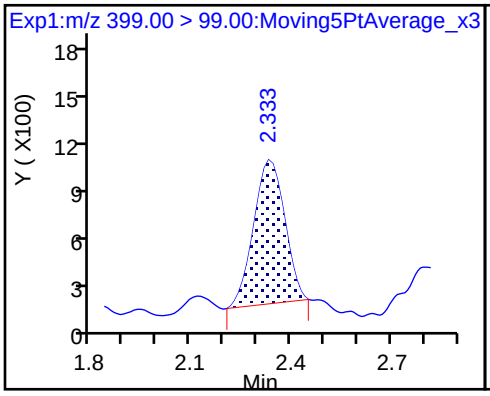
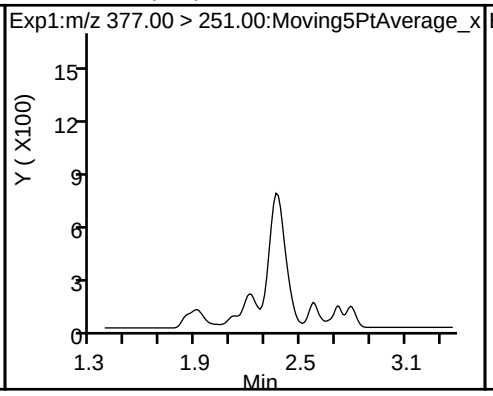


65 Adona (ND)



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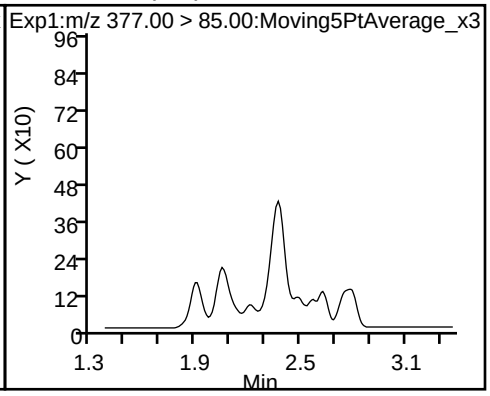
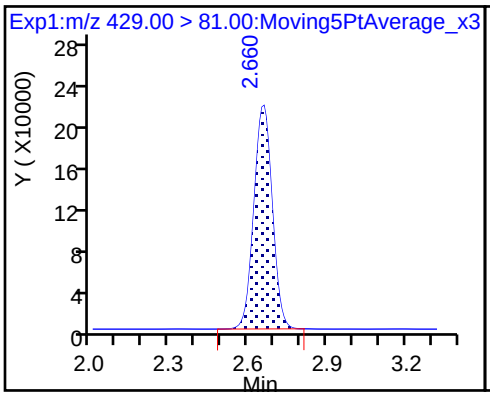
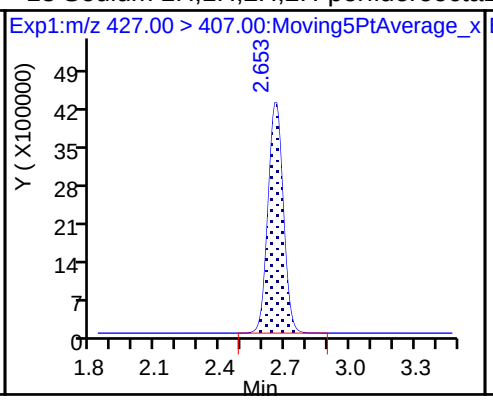


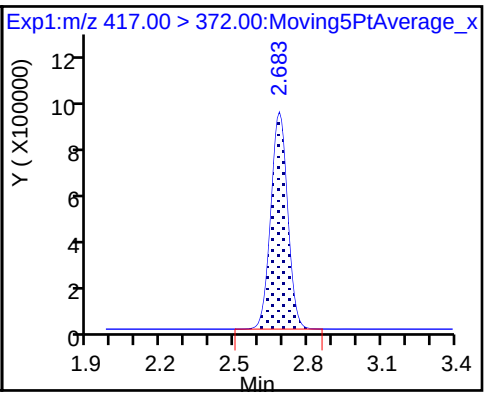
D 12 M2-6:2FTS



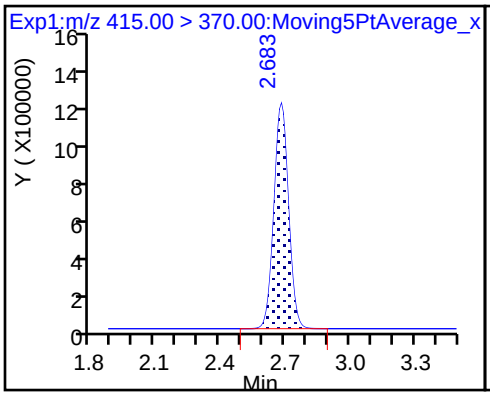
13 Sodium 1H,1H,2H,2H-perfluorooctane



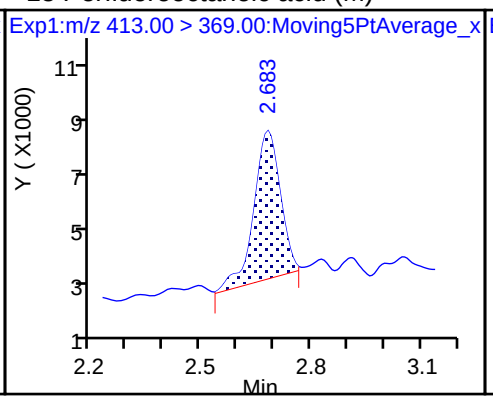
D 14 13C4 PFOA



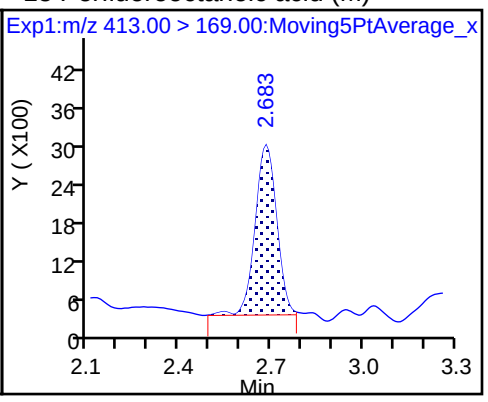
* 62 13C2-PFOA



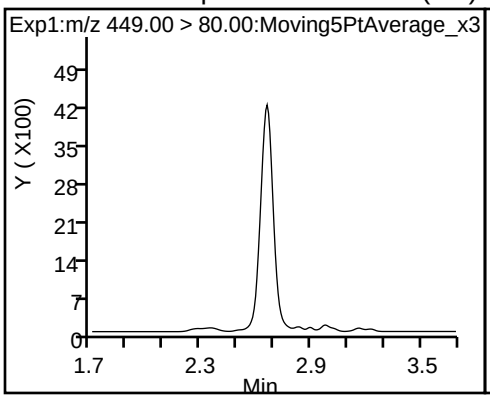
15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)



16 Perfluoroheptanesulfonic acid (ND)



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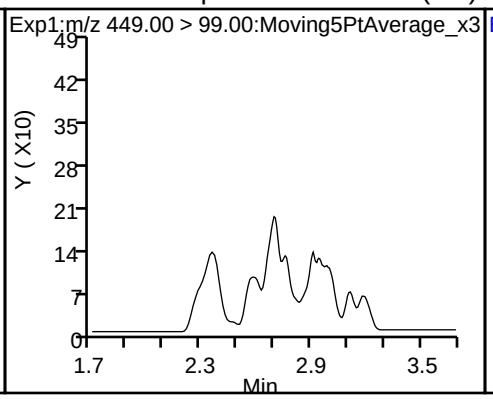
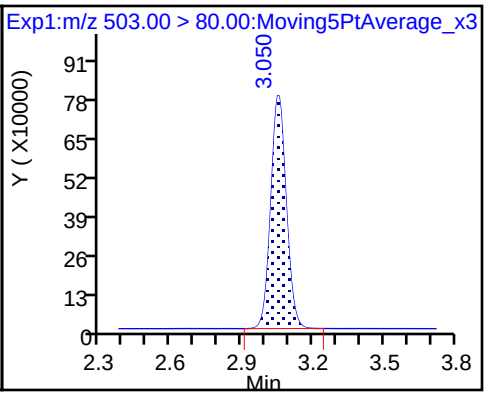


D 18 13C4 PFOS



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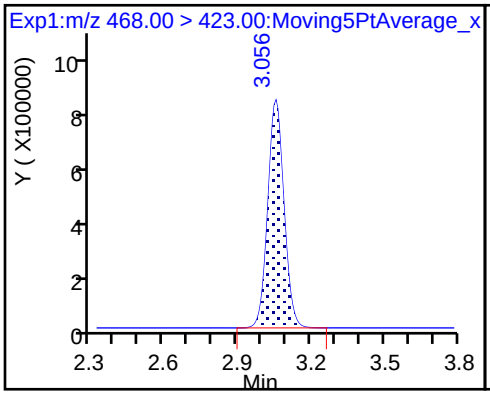
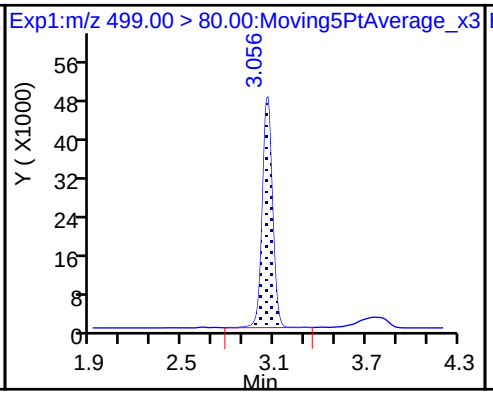


17 Perfluorooctane sulfonic acid



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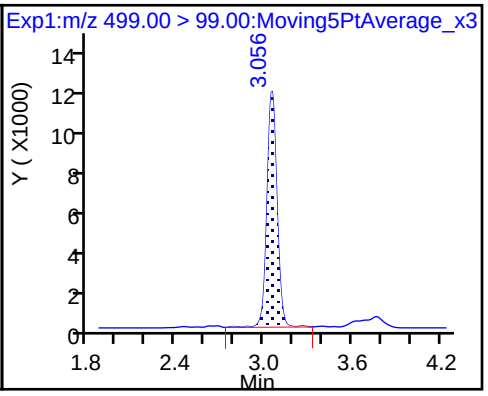

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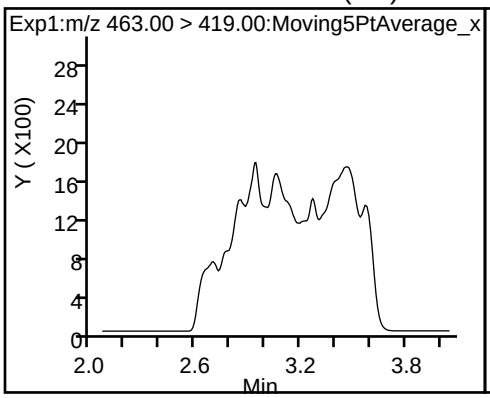

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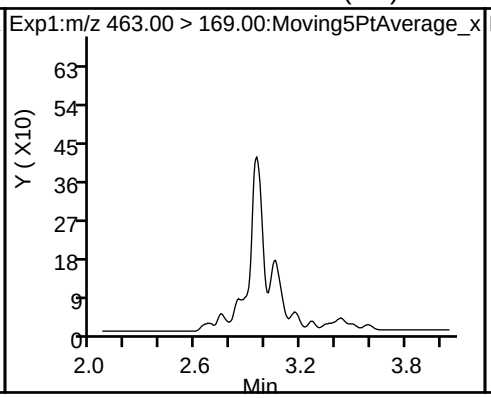
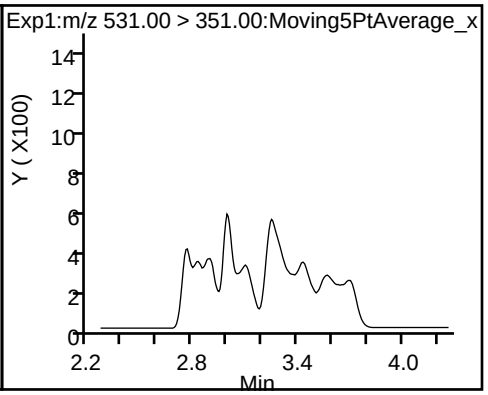
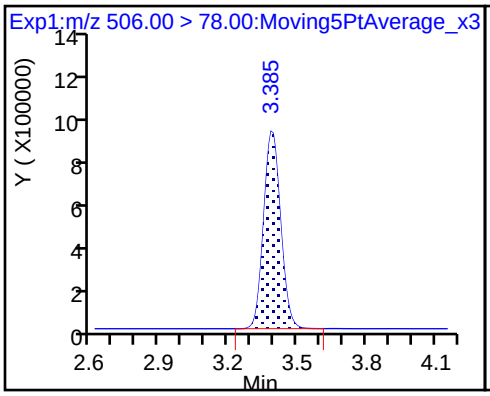


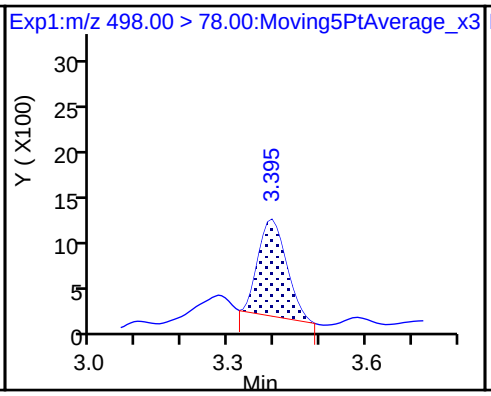
69 9-Chlorohexadecafluoro-3-oxanonane (ND)



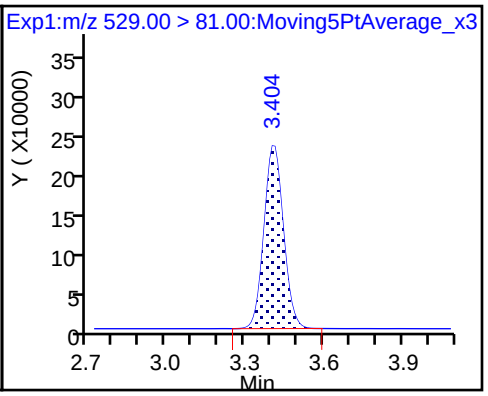
D 21 13C8 FOSA



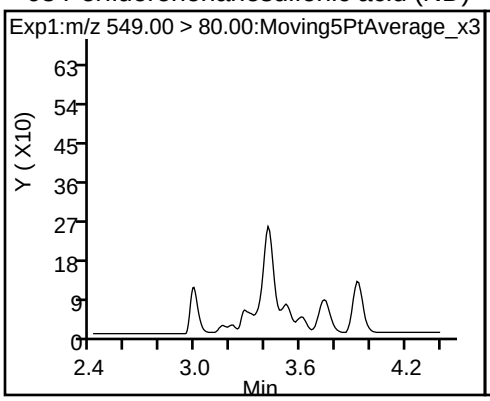
22 Perfluorooctane Sulfonamide



D 26 M2-8:2FTS



68 Perfluorononanesulfonic acid (ND)



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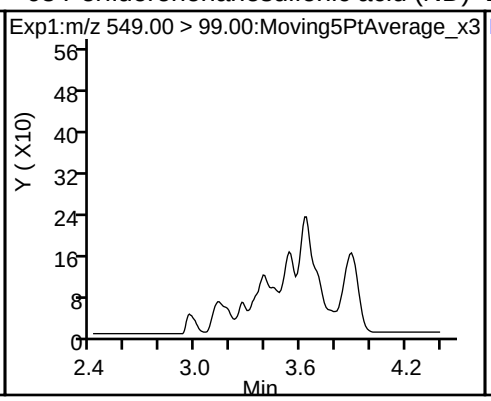
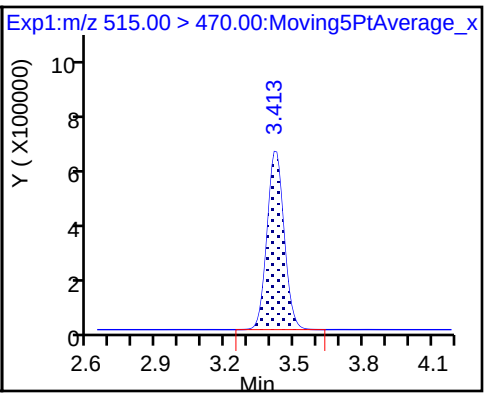
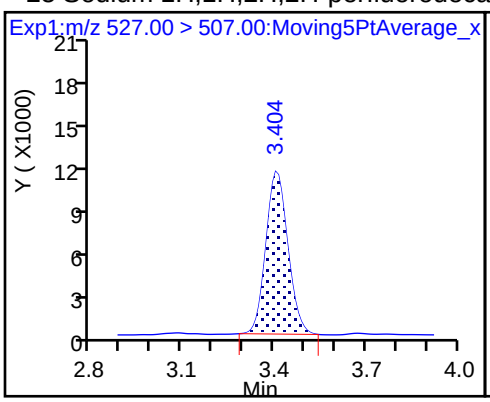


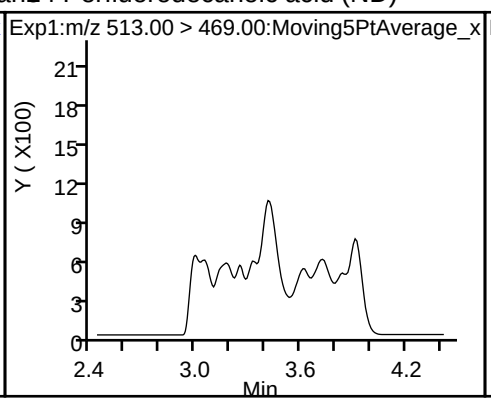
D 23 13C2 PFDA



25 Sodium 1H,1H,2H,2H-perfluorodecane



24 Perfluorodecanoic acid (ND)



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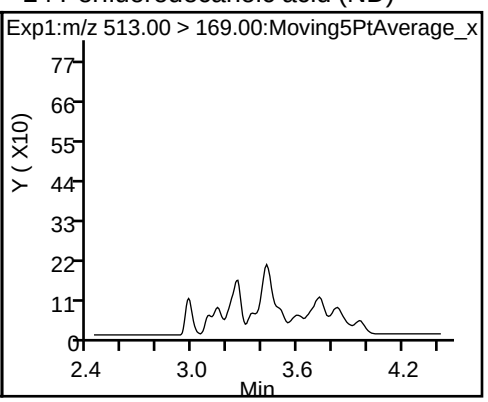
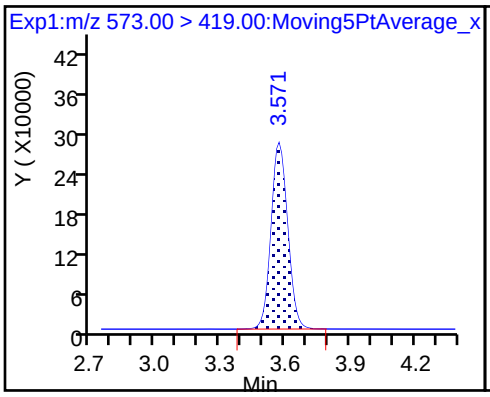
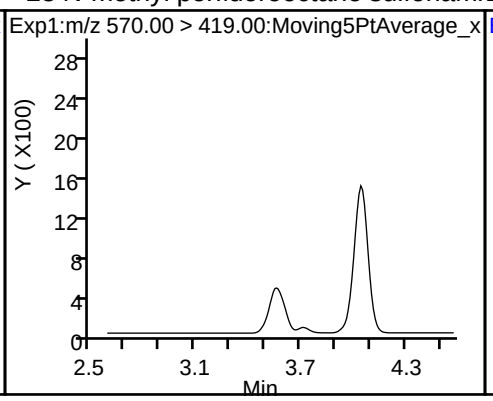


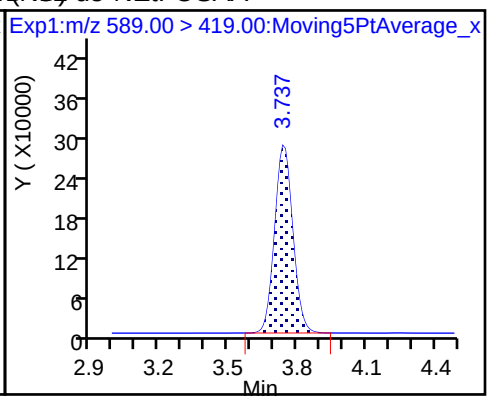
D 27 d3-NMeFOSAA



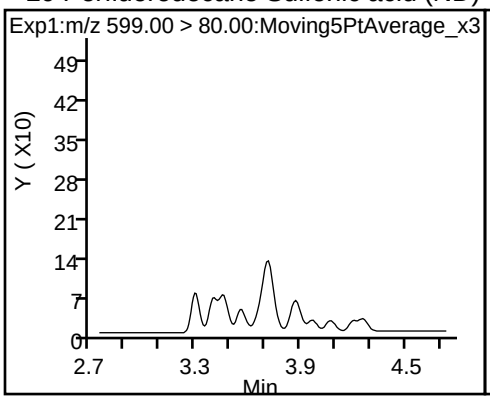
28 N-methyl perfluorooctane sulfonamid (ND)



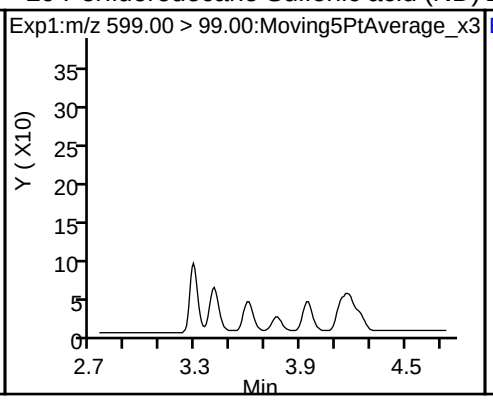
D 32 d5-NEtFOSAA



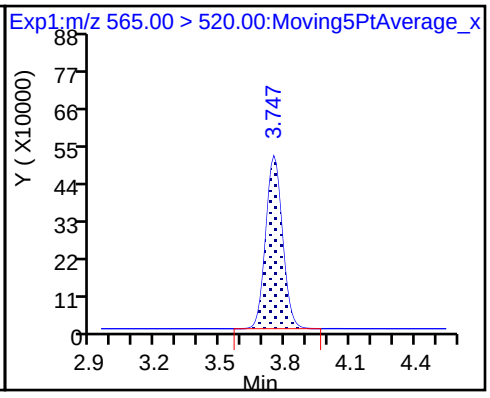
29 Perfluorodecane Sulfonic acid (ND)



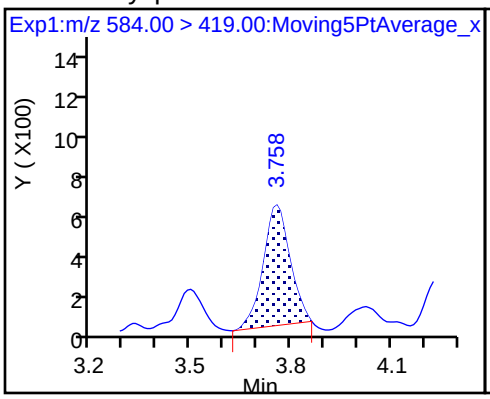
29 Perfluorodecane Sulfonic acid (ND)



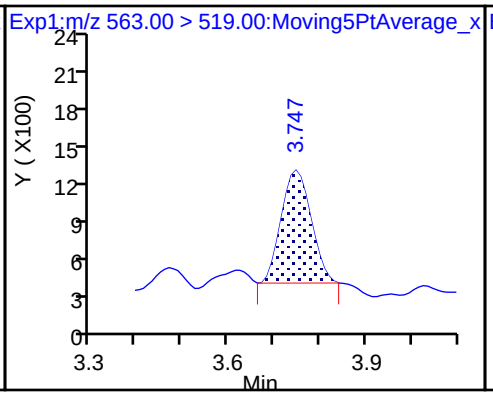
D 30 13C2 PFUnA



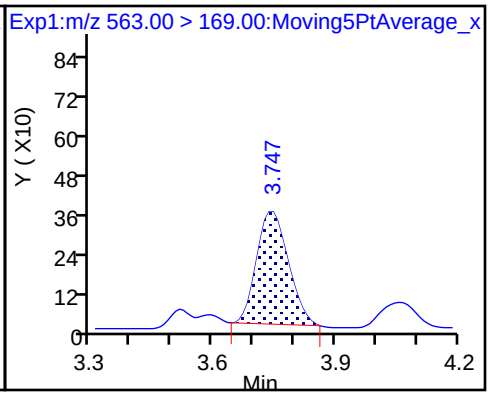
33 N-ethyl perfluorooctane sulfonamid



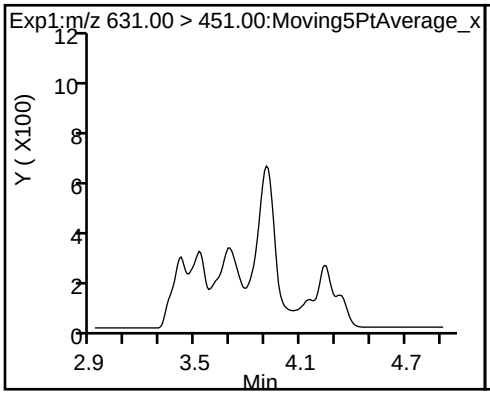
31 Perfluoroundecanoic acid



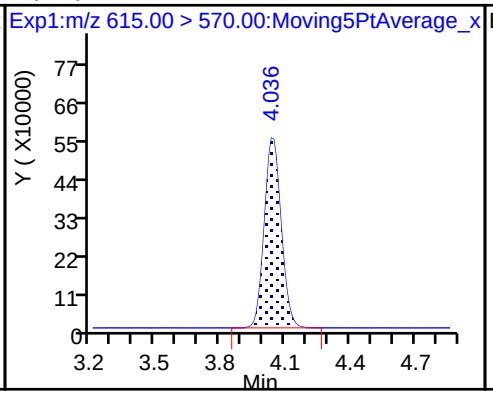
31 Perfluoroundecanoic acid



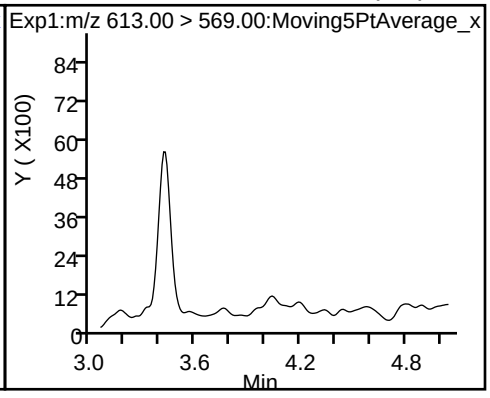
66 11-Chloroeicosafluoro-3-oxaundecan (ND)



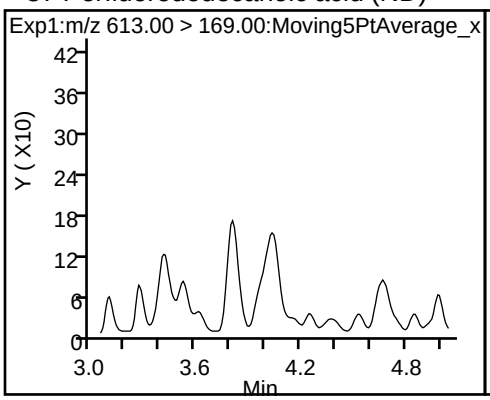
D 36 13C2 PFDoA



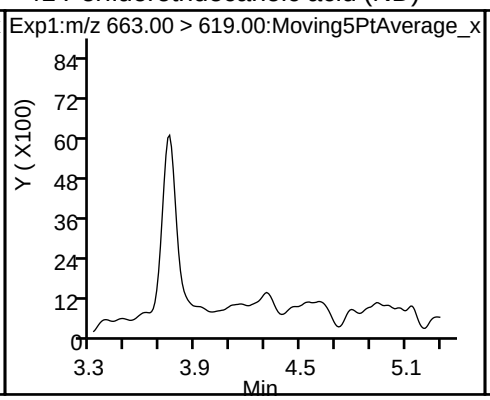
37 Perfluorododecanoic acid (ND)



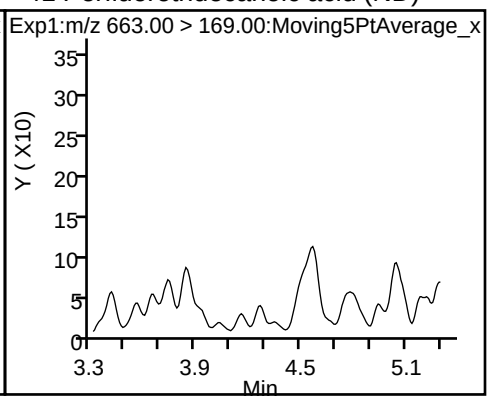
37 Perfluorododecanoic acid (ND)



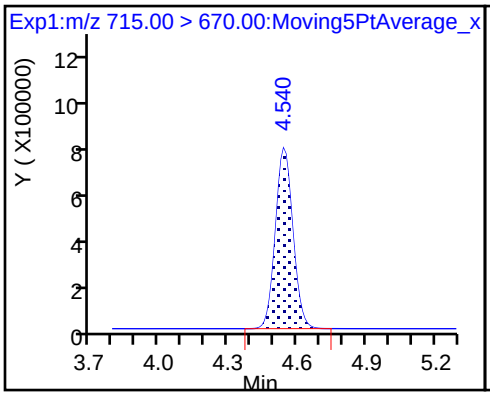
41 Perfluorotridecanoic acid (ND)



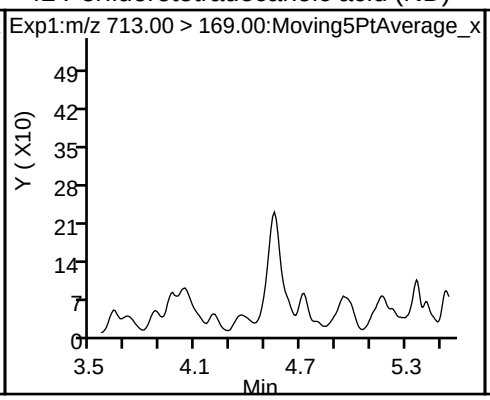
41 Perfluorotridecanoic acid (ND)



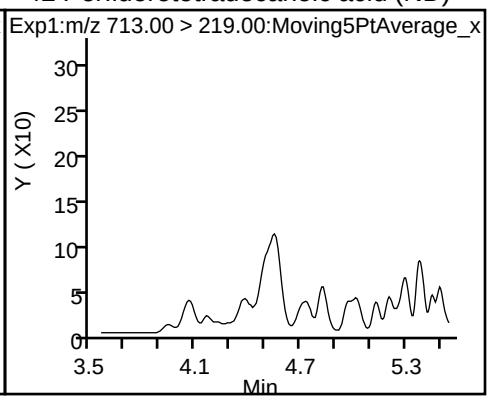
D 43 13C2-PFTeDA



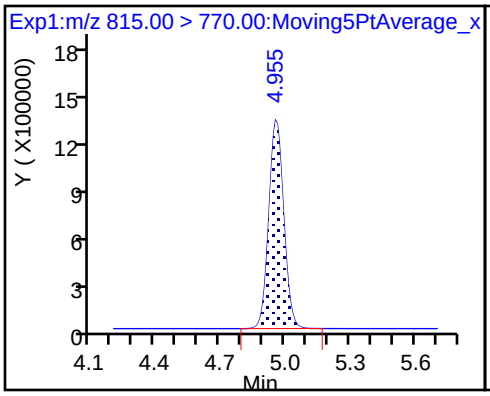
42 Perfluorotetradecanoic acid (ND)



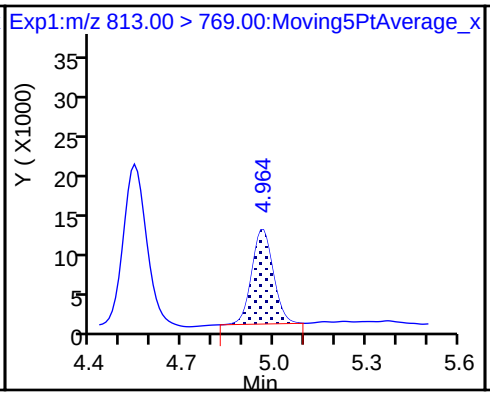
42 Perfluorotetradecanoic acid (ND)



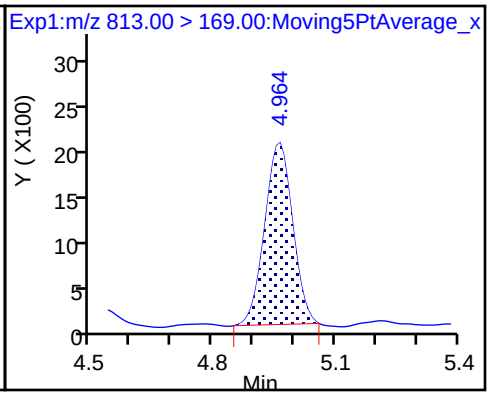
D 44 13C2-PFHxDA



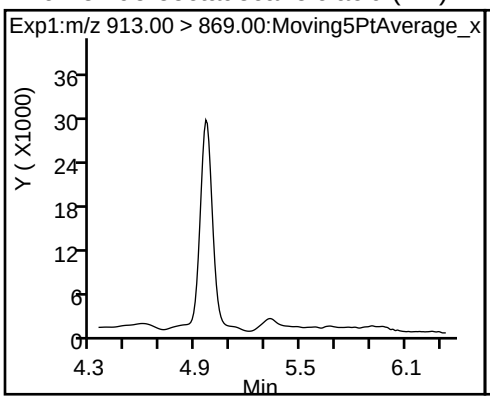
45 Perfluorohexadecanoic acid



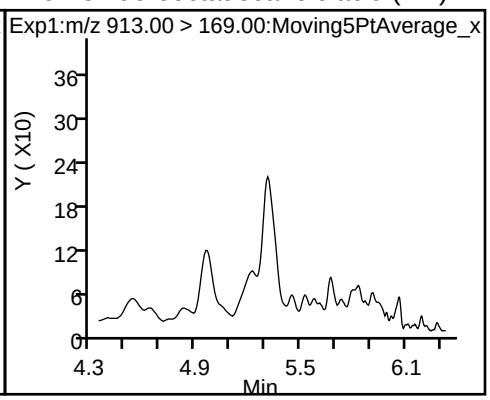
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

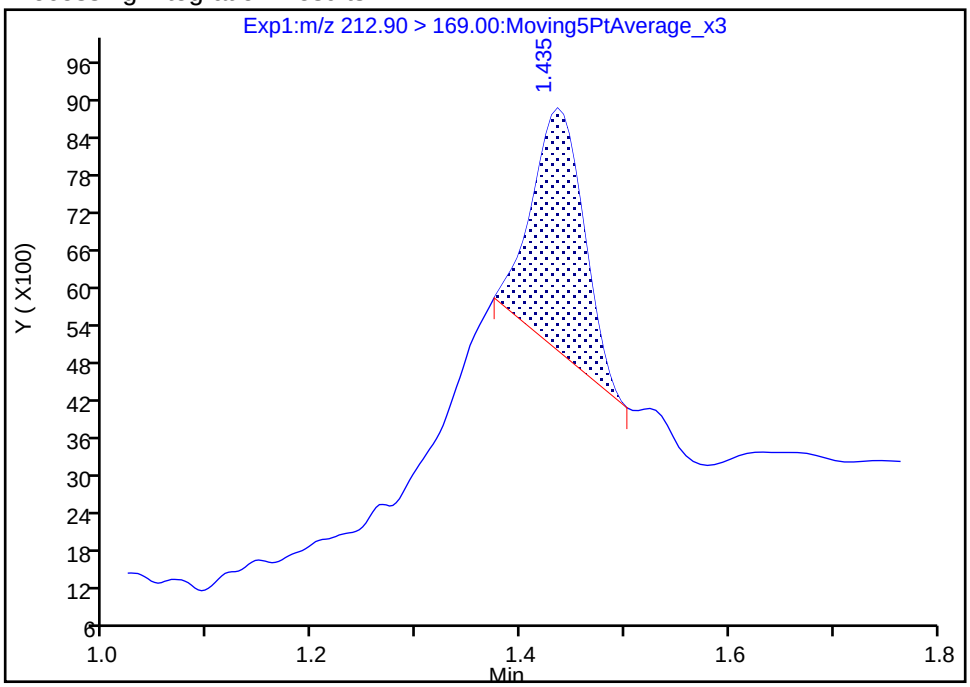
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_033.d
Injection Date: 30-Mar-2018 18:08:38 Instrument ID: A8_N
Lims ID: MB 320-215068/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 24 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

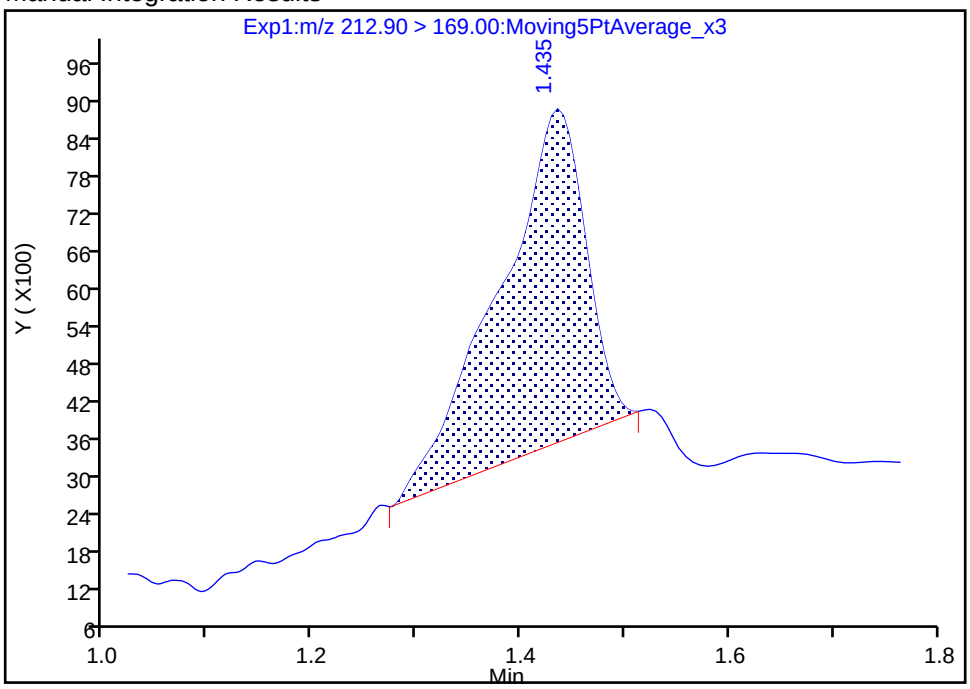
Processing Integration Results

RT: 1.44
Area: 13315
Amount: 0.005806
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 30979
Amount: 0.013509
Amount Units: ng/ml



Reviewer: roycea, 03-Apr-2018 16:37:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

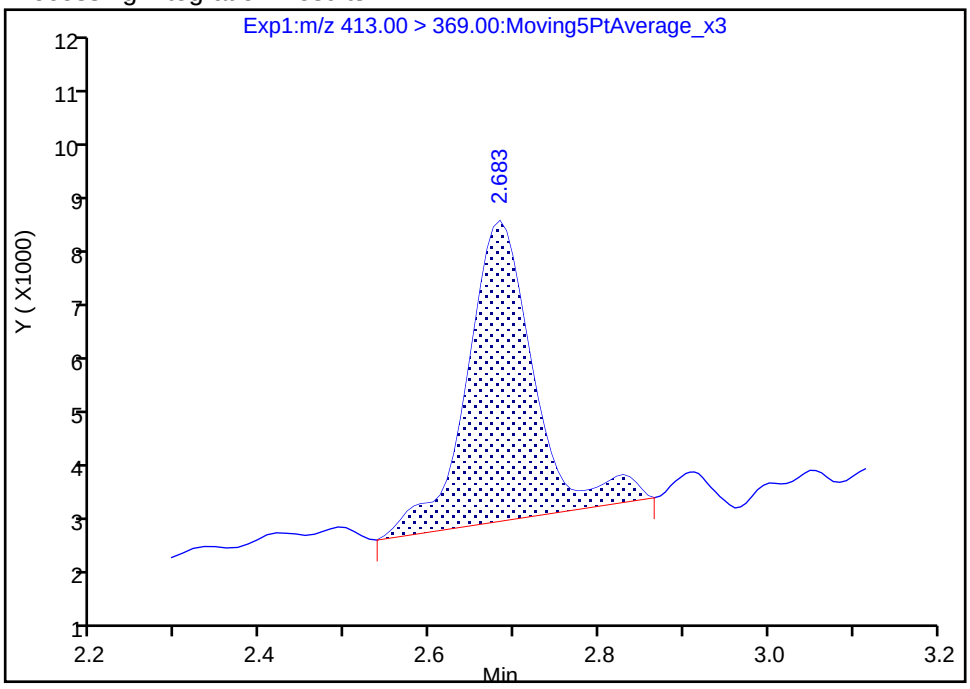
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_033.d
Injection Date: 30-Mar-2018 18:08:38 Instrument ID: A8_N
Lims ID: MB 320-215068/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 24 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

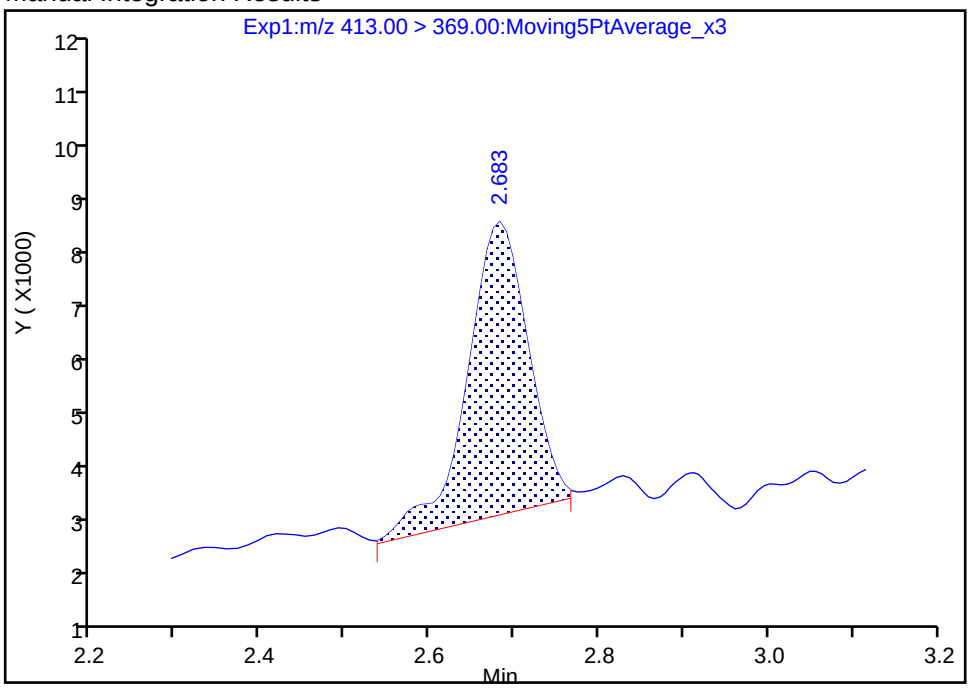
Processing Integration Results

RT: 2.68
Area: 28612
Amount: 0.013712
Amount Units: ng/ml



Manual Integration Results

RT: 2.68
Area: 25466
Amount: 0.012205
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:10:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

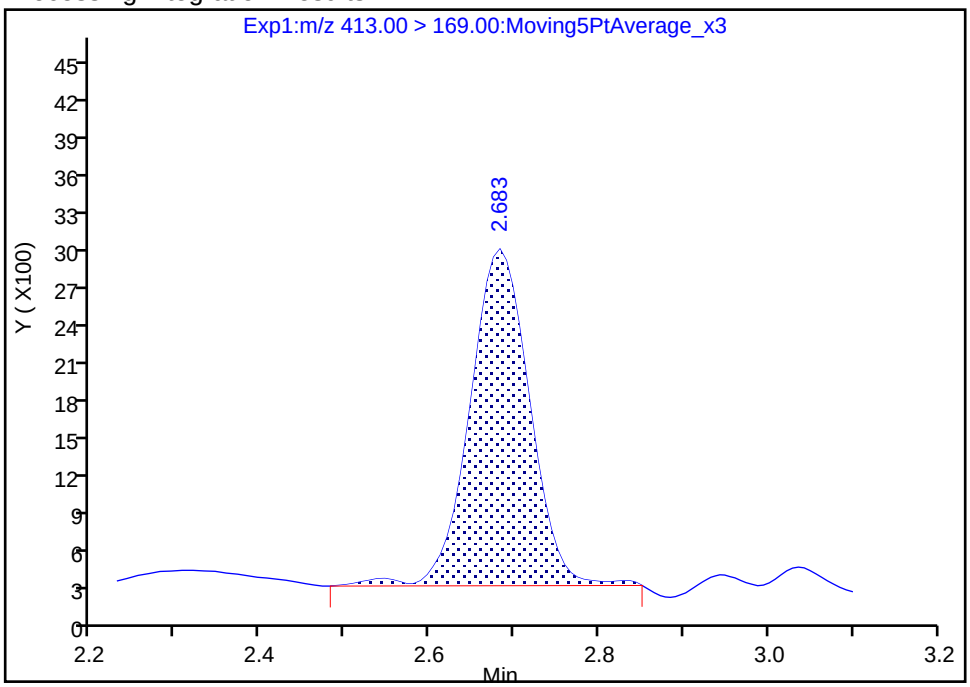
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_033.d
Injection Date: 30-Mar-2018 18:08:38 Instrument ID: A8_N
Lims ID: MB 320-215068/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 24 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

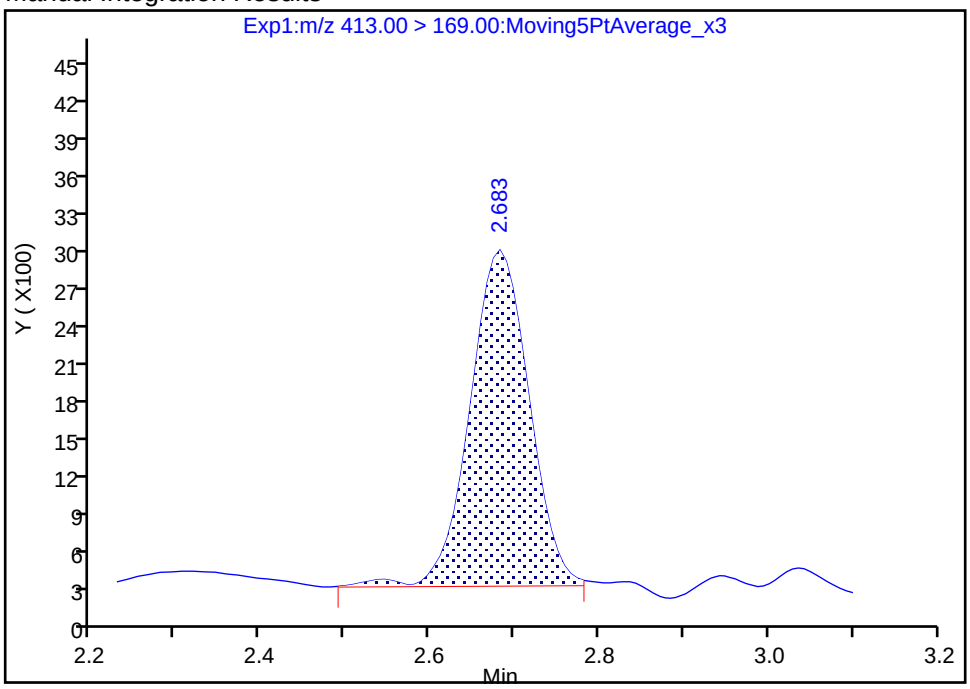
Processing Integration Results

RT: 2.68
Area: 13370
Amount: 0.013712
Amount Units: ng/ml



Manual Integration Results

RT: 2.68
Area: 13192
Amount: 0.012205
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:10:19
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-215106/1-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_008.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 18:59

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.420	J	2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	1.30	U	2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.285	J	2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.35	U	2.00	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90
27619-97-2	6:2FTS	2.00	U	20.0	2.00
39108-34-4	8:2FTS	2.00	U	20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-215106/1-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_008.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 18:59

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	107		25-150
STL01893	13C5 PFPeA	106		25-150
STL00993	13C2 PFHxA	100		25-150
STL01892	13C4-PFHpA	102		25-150
STL00990	13C4 PFOA	100		25-150
STL00995	13C5 PFNA	96		25-150
STL00996	13C2 PFDA	95		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	86		25-150
STL02116	13C2-PFTeDA	87		25-150
STL02337	13C3-PFBS	105		25-150
STL00994	18O2 PFHxS	113		25-150
STL00991	13C4 PFOS	104		25-150
STL01056	13C8 FOSA	104		25-150
STL02118	d3-NMeFOSAA	80		25-150
STL02117	d5-NEtFOSAA	78		25-150
STL02279	M2-6:2FTS	112		25-150
STL02280	M2-8:2FTS	100		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_008.d
Lims ID: MB 320-215106/1-A
Client ID:
Sample Type: MB
Inject. Date: 28-Mar-2018 18:59:38 ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-215106/1-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:49:47 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:37:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.446	1.441	0.005	0.530	6852109	2.69		107	107673	
2 Perfluorobutyric acid										
212.90 > 169.00	1.446	1.446	0.0	1.000	27137	0.0105			9.8	
D 3 13C5-PFPeA										
267.90 > 223.00	1.718	1.718	0.0	0.630	4462082	2.64		106	158066	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.754	-0.001	0.643	94261	2.44		105	738	
D 7 13C2 PFHxA										
315.00 > 270.00	2.019	2.019	0.0	0.740	4696557	2.51		100	129308	
10 Perfluoroheptanoic acid										R
363.00 > 319.00	2.328	2.353	-0.025	0.983	3088	0.001581			2.3	R
363.00 > 169.00	2.341	2.353	-0.012	0.989	2830		1.09(1.13-3.40)		5.8	
D 9 13C4-PFHpA										
367.00 > 322.00	2.367	2.354	0.013	0.868	4719288	2.56		102	92928	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.379	2.367	0.012	1.000	20398	0.007136			137	
399.00 > 99.00	2.379	2.367	0.012	1.000	6636		3.07(1.50-4.49)		47.9	
D 11 18O2 PFHxS										
403.00 > 84.00	2.379	2.368	0.011	0.872	6073884	2.67		113	100659	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.704	2.695	0.009	1.000	25288	0.0338			152	
D 12 M2-6:2FTS										
429.00 > 81.00	2.704	2.705	-0.001	0.991	1019175	2.66		112	26840	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.736	2.726	0.010	1.003	13030	0.006116			4.1	
413.00 > 169.00	2.728	2.726	0.002	1.000	7221		1.80(0.84-2.52)		29.4	M
* 62 13C2-PFOA										
415.00 > 370.00	2.728	2.726	0.002		5035786	2.50			74183	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	2.728	2.728	0.0	1.000	4715181	2.50		99.9	101133	
D 19 13C5 PFNA										
468.00 > 423.00	3.112	3.112	0.0	1.141	4004666	2.41		96.2	85341	
D 18 13C4 PFOS										
503.00 > 80.00	3.112	3.112	0.0	1.141	4136583	2.50		104	70251	
D 21 13C8 FOSA										
506.00 > 78.00	3.418	3.418	0.0	1.253	5812205	2.60		104	60852	
D 26 M2-8:2FTS										
529.00 > 81.00	3.463	3.464	-0.001	1.269	1235113	2.39		99.8	29724	
D 23 13C2 PFDA										
515.00 > 470.00	3.472	3.473	-0.001	1.273	3483786	2.39		95.5	51050	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.633	3.633	0.0	1.332	1543183	2.01		80.4	44888	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.804	3.802	0.002	1.000	7018	0.006878			28.7	
563.00 > 169.00	3.814	3.802	0.012	1.003	1615		4.35(2.12-6.36)		84.8	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.793	3.804	-0.011	1.391	1714807	1.96		78.4	4465	
D 30 13C2 PFUnA										
565.00 > 520.00	3.804	3.804	0.0	1.394	2958497	2.27		90.6	60019	
D 36 13C2 PFDoA										
615.00 > 570.00	4.104	4.105	-0.001	1.504	3172869	2.14		85.7	21340	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.602	4.613	-0.011	1.687	3949772	2.18		87.3	25014	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.031	5.012	0.019	1.000	50765	-0.000484			11.0	
813.00 > 169.00	5.031	5.012	0.019	1.000	7595		6.68(2.86-8.58)		63.1	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.031	5.040	-0.009	1.844	5866448	1.98		79.1	13834	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 29-Mar-2018 07:49:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_008.d

Injection Date: 28-Mar-2018 18:59:38 Instrument ID: A8_N

Lims ID: MB 320-215106/1-A

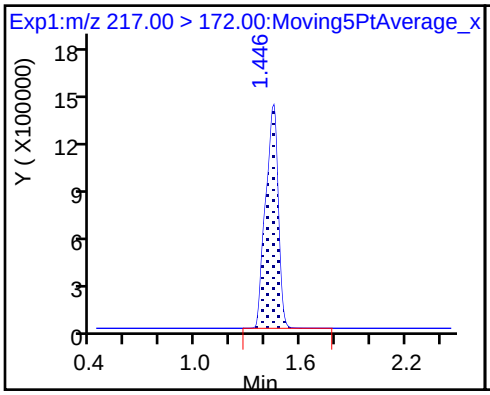
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 5

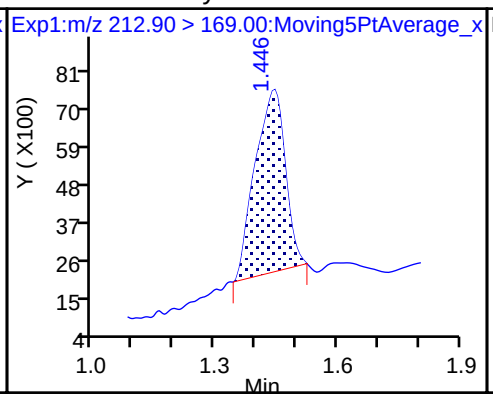
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

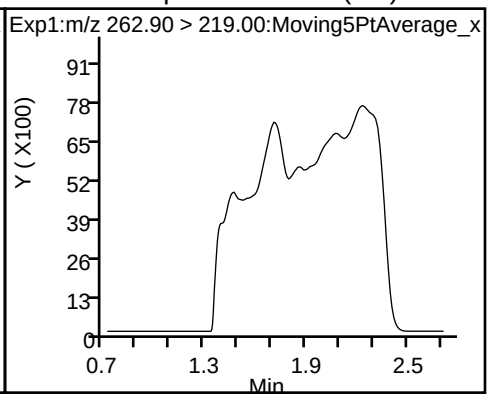
D 1 13C4 PFBA



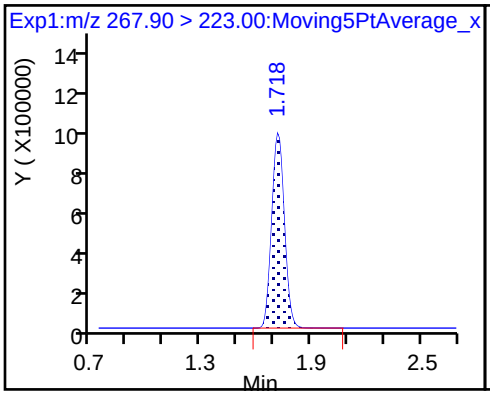
2 Perfluorobutyric acid



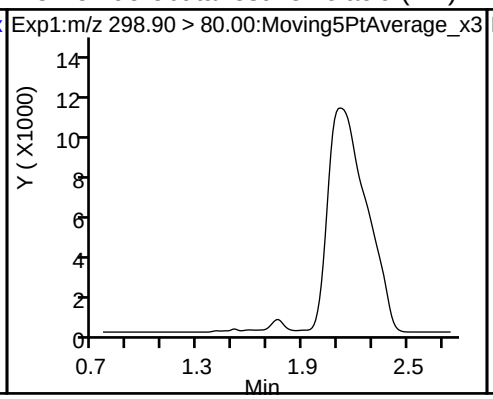
4 Perfluoropentanoic acid (ND)



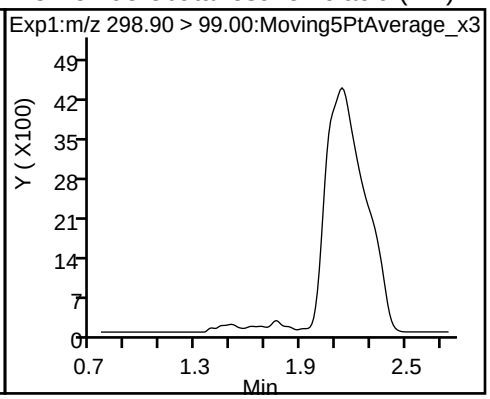
D 3 13C5-PFPeA



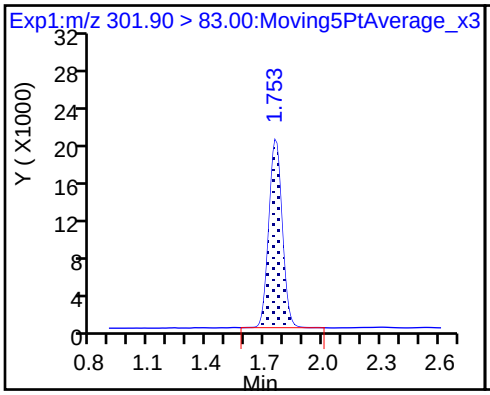
5 Perfluorobutanesulfonic acid (ND)



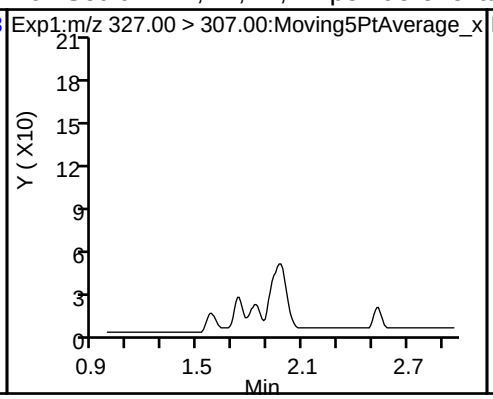
5 Perfluorobutanesulfonic acid (ND)



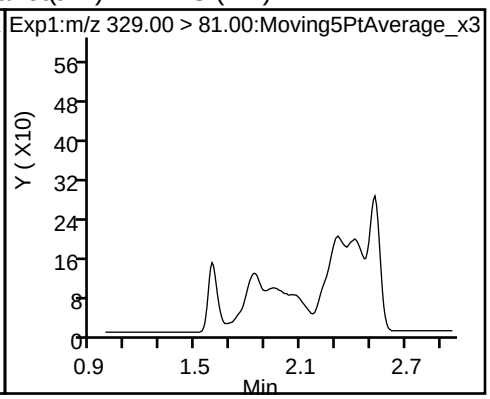
D 47 13C3-PFBS



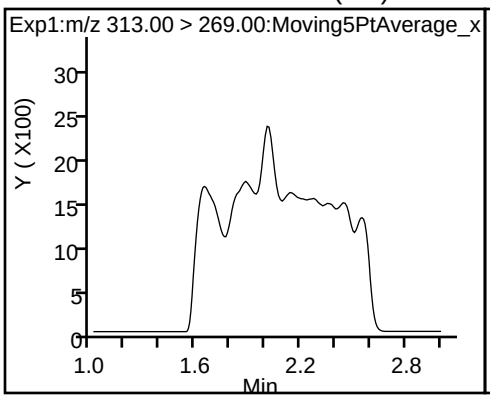
61 Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (NM)



D 60 M2-4:2FTS (ND)



6 Perfluorohexanoic acid (ND)



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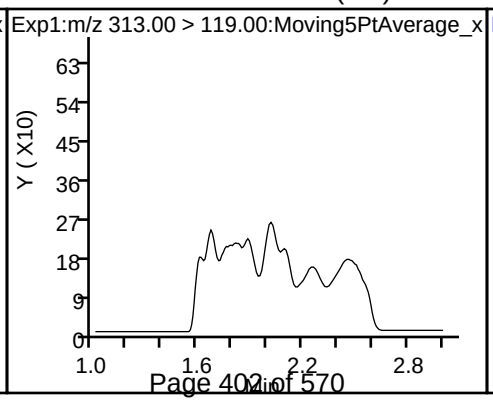
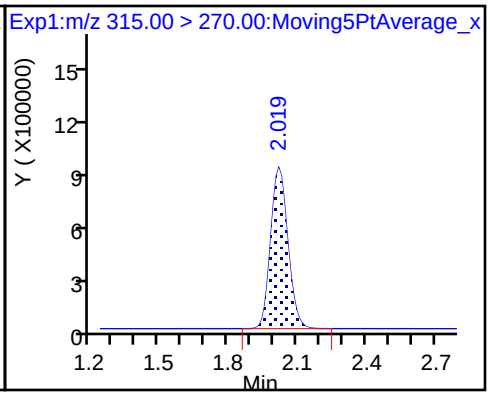
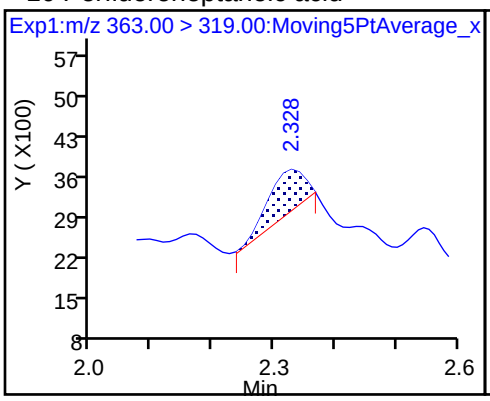


D 7 13C2 PFHxA



10 Perfluoroheptanoic acid



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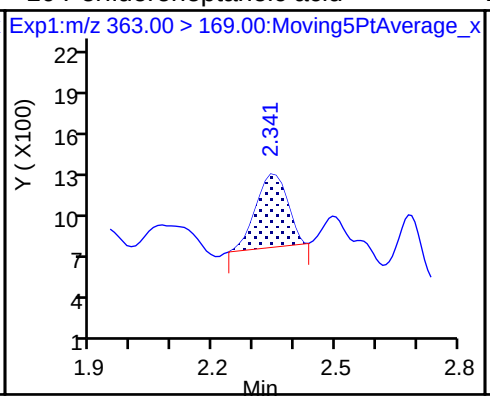
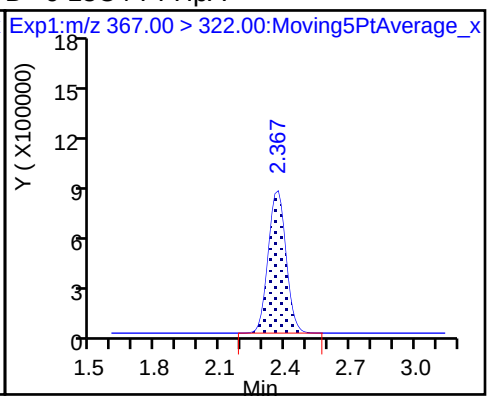
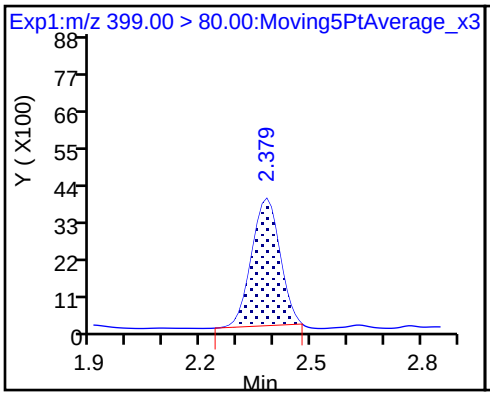


D 9 13C4-PFHpA



8 Perfluorohexanesulfonic acid



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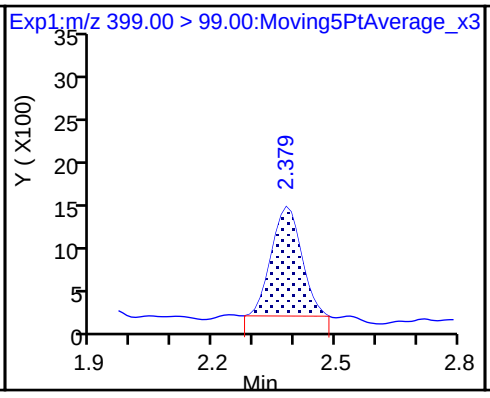
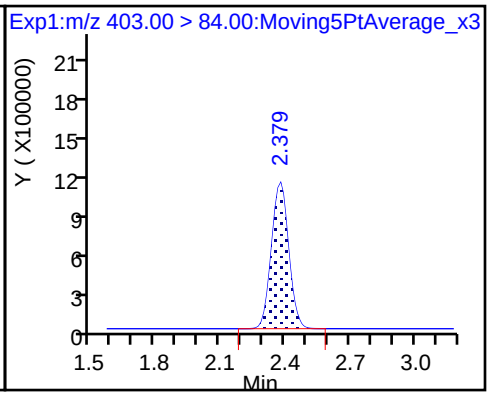
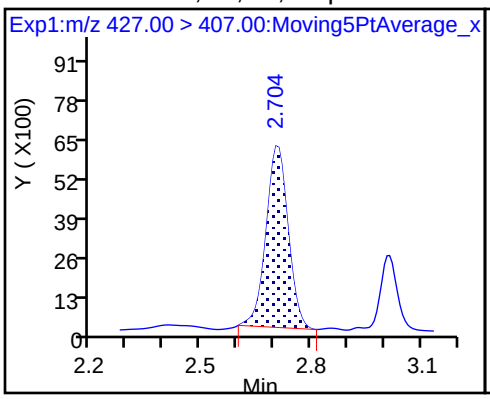


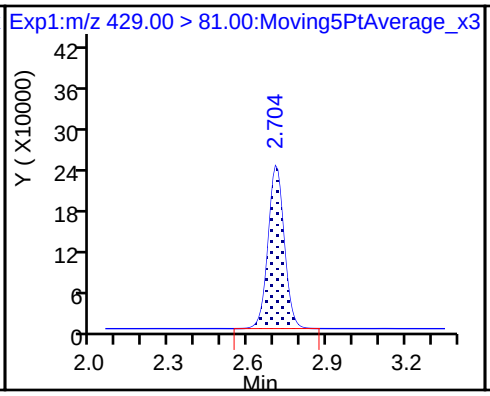
D 11 18O2 PFHxS



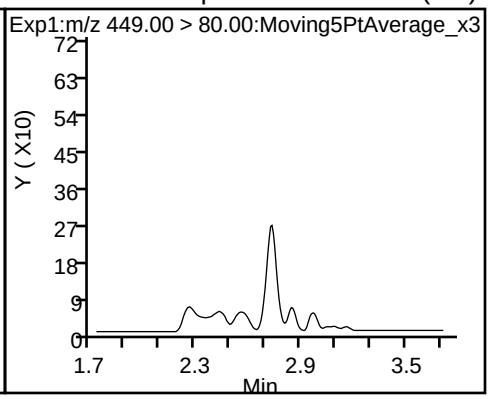
13 Sodium 1H,1H,2H,2H-perfluorooctane



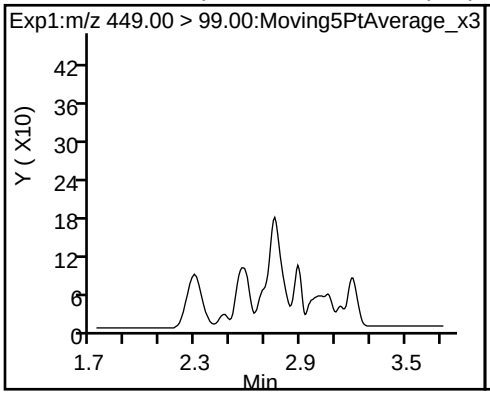
D 12 M2-6:2FTS



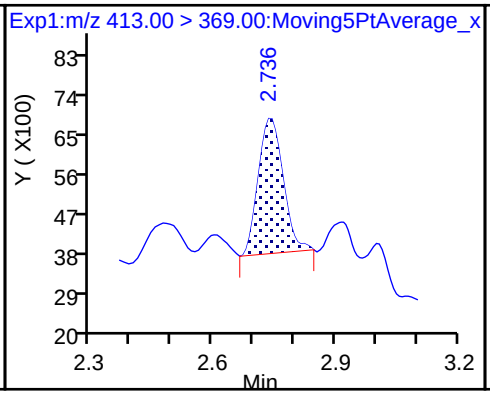
16 Perfluoroheptanesulfonic acid (ND)



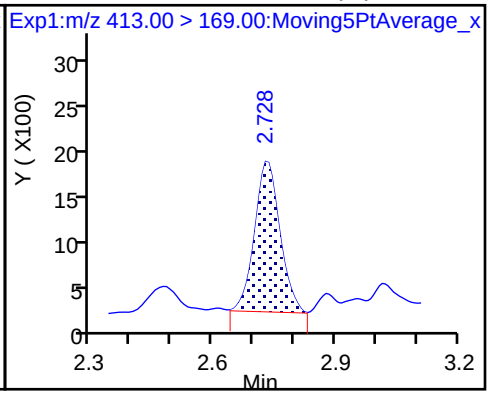
16 Perfluoroheptanesulfonic acid (ND)



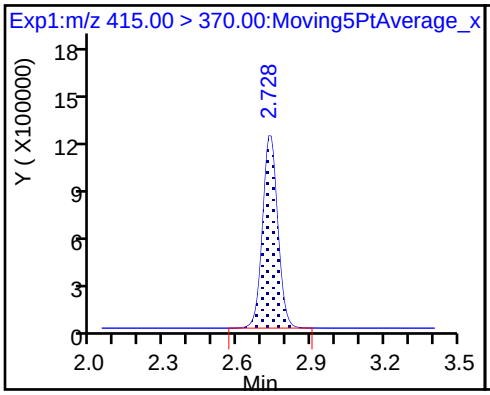
15 Perfluorooctanoic acid



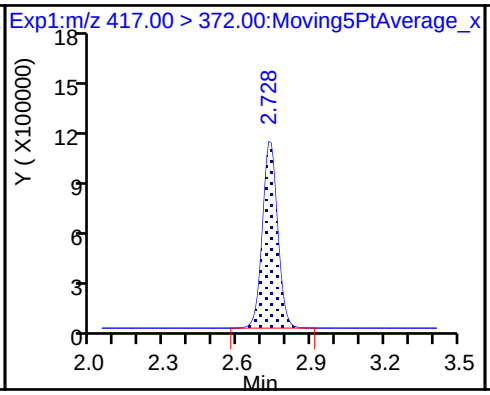
15 Perfluorooctanoic acid (M)



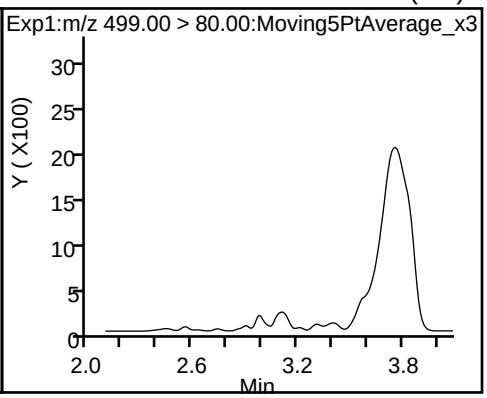
* 62 13C2-PFOA



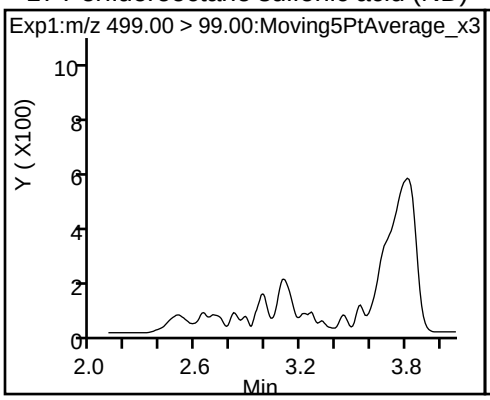
D 14 13C4 PFOA



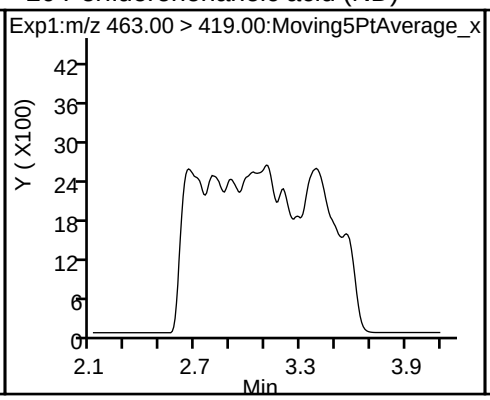
17 Perfluorooctane sulfonic acid (ND)



17 Perfluorooctane sulfonic acid (ND)



20 Perfluorononanoic acid (ND)



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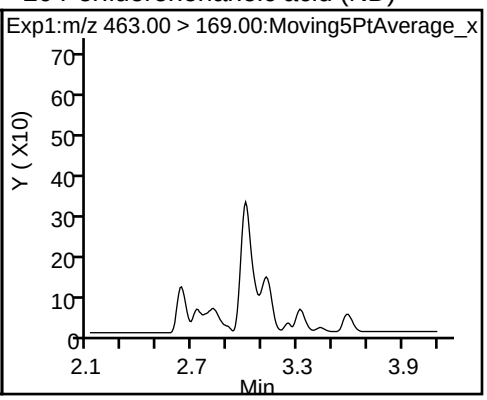
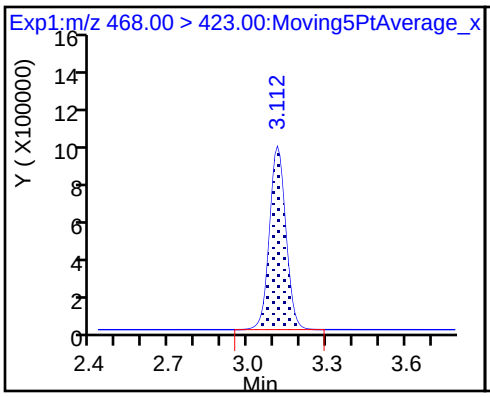


D 19 13C5 PFNA



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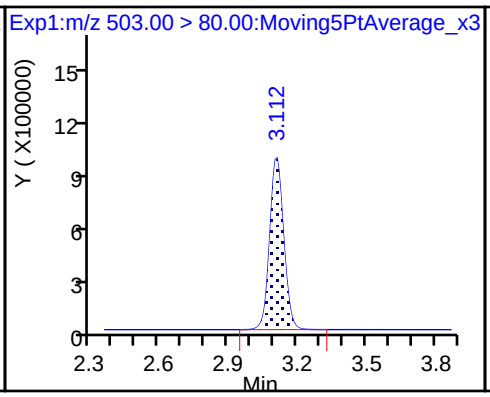
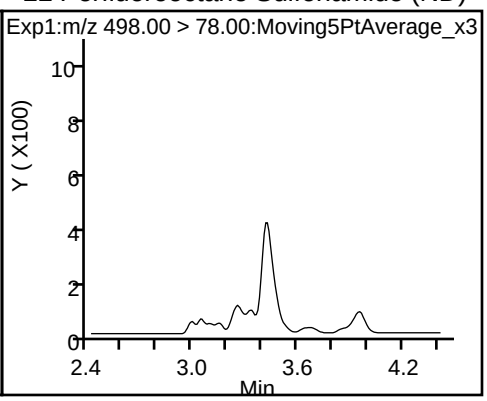
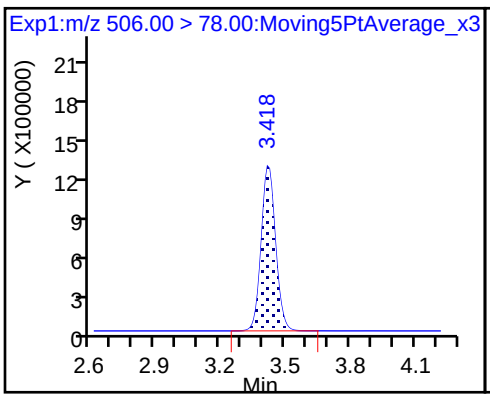


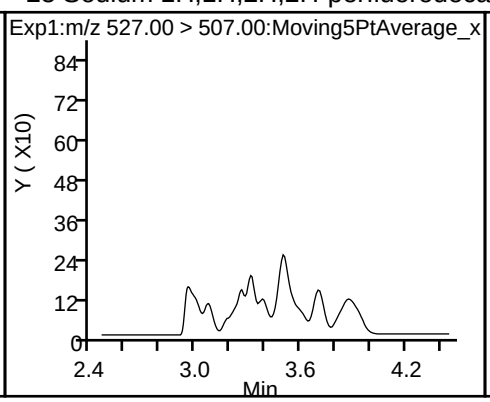
22 Perfluorooctane Sulfonamide (ND)



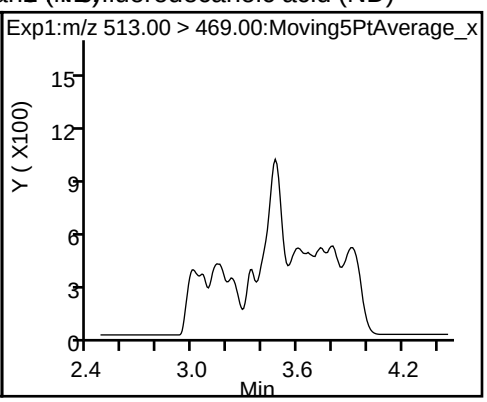
D 21 13C8 FOSA



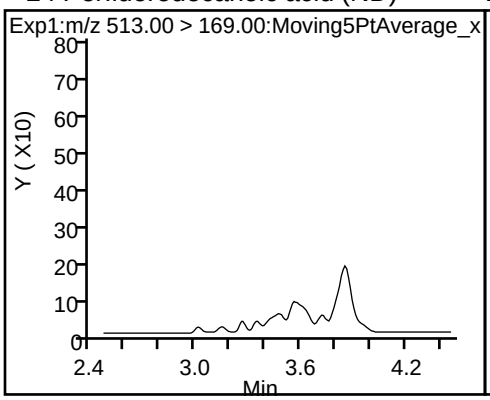
25 Sodium 1H,1H,2H,2H-perfluorodecane2(ND)



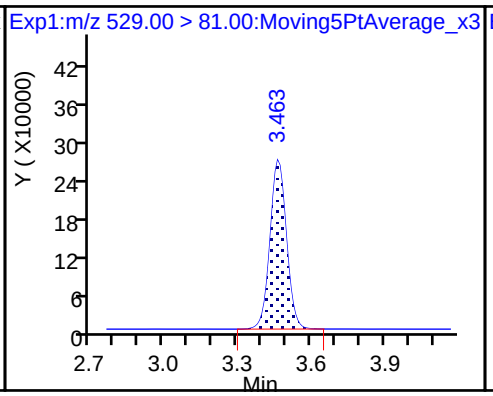
24 Perfluorodecanoic acid (ND)



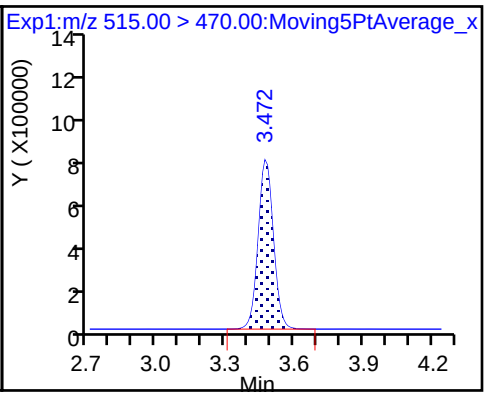
24 Perfluorodecanoic acid (ND)



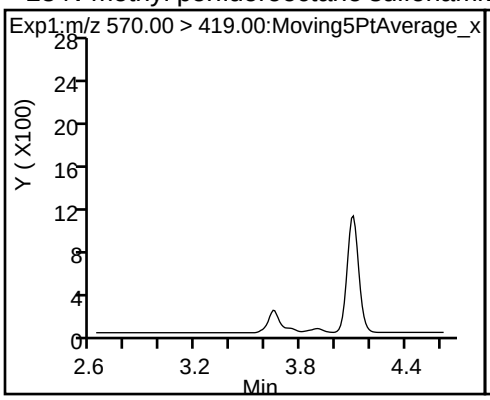
D 26 M2-8:2FTS



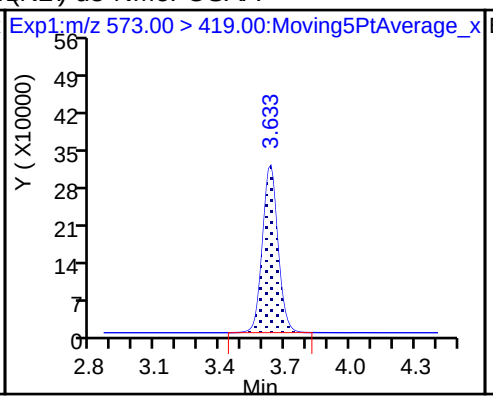
D 23 13C2 PFDA



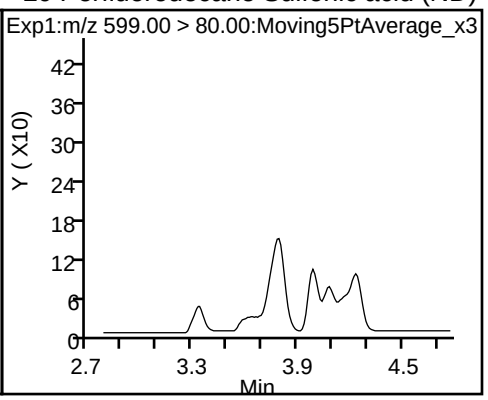
28 N-methyl perfluorooctane sulfonamid (ND)



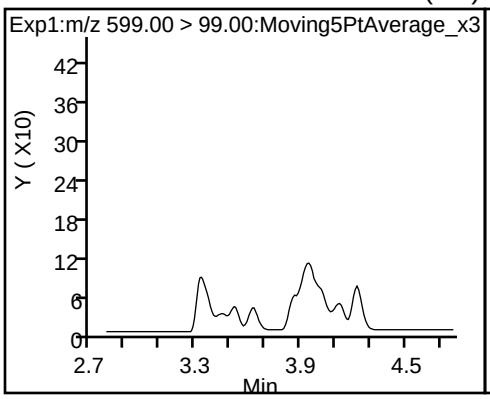
D 27 d3-NMeFOSAA



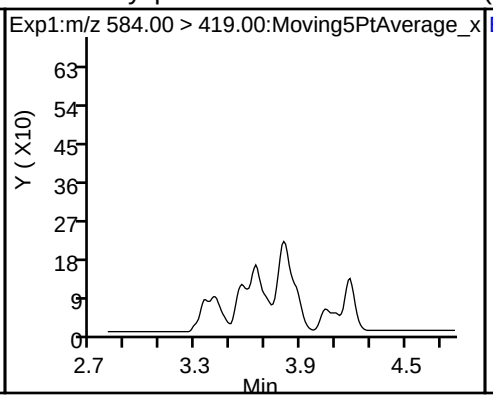
29 Perfluorodecane Sulfonic acid (ND)



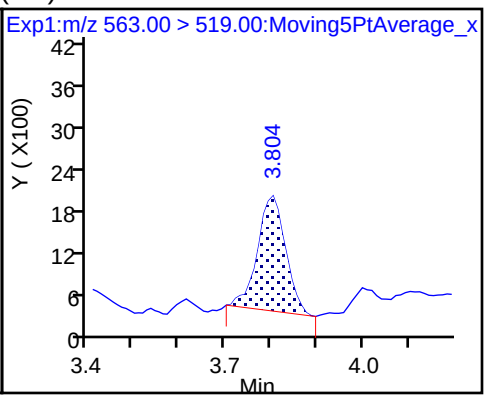
29 Perfluorodecane Sulfonic acid (ND)



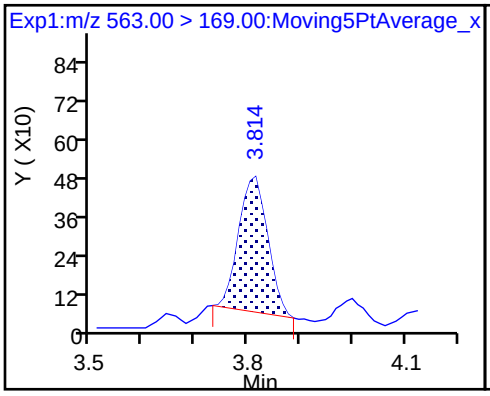
33 N-ethyl perfluorooctane sulfonamid (ND)



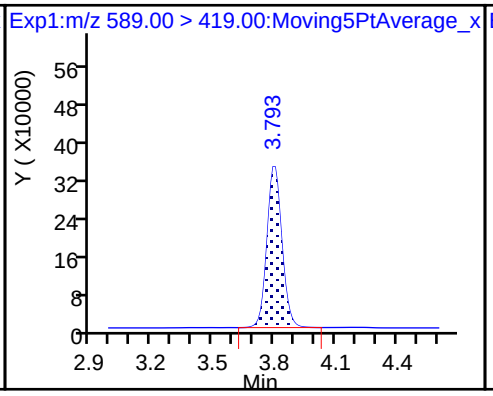
31 Perfluoroundecanoic acid



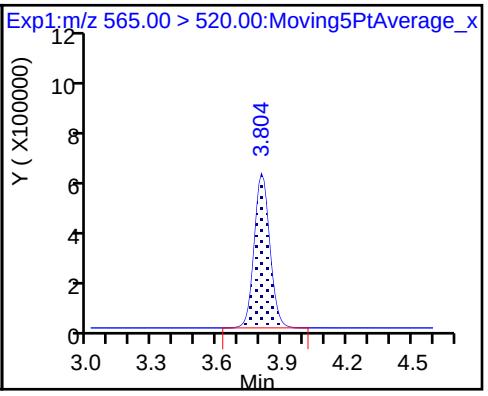
31 Perfluoroundecanoic acid



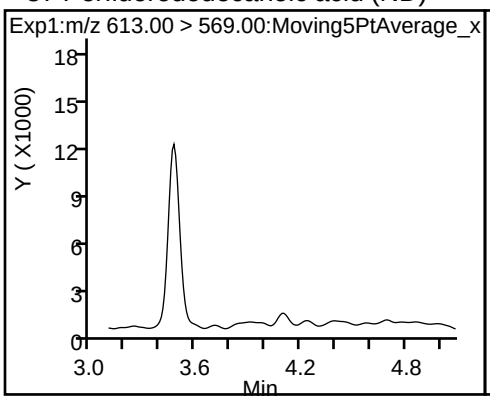
D 32 d5-NEtFOSAA



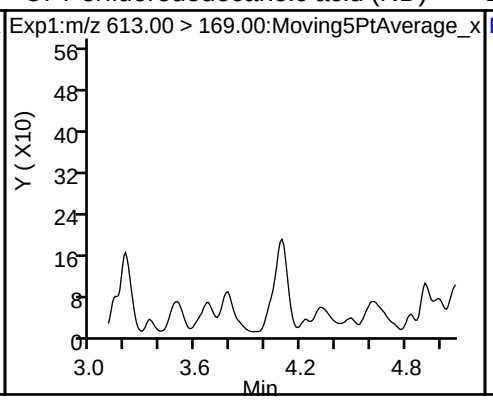
D 30 13C2 PFUnA



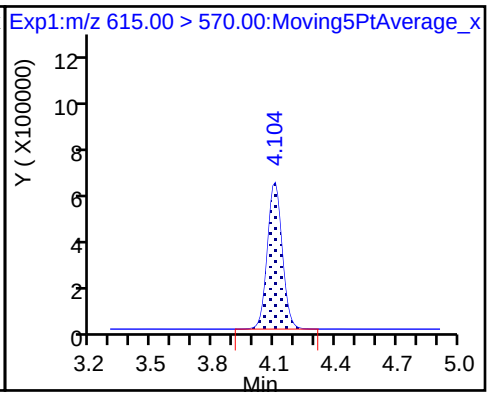
37 Perfluorododecanoic acid (ND)



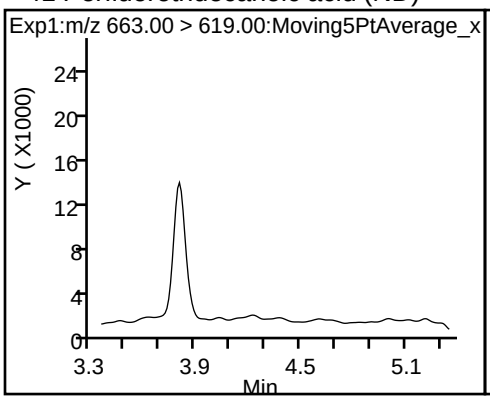
37 Perfluorododecanoic acid (ND)



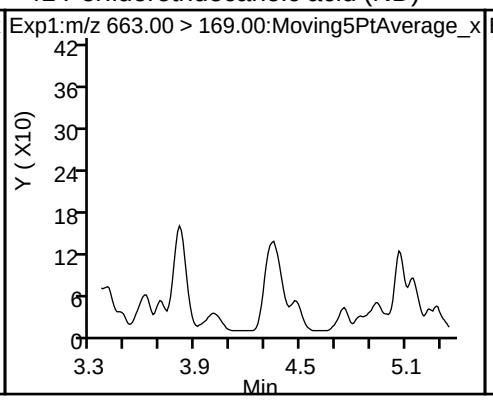
D 36 13C2 PFDoA



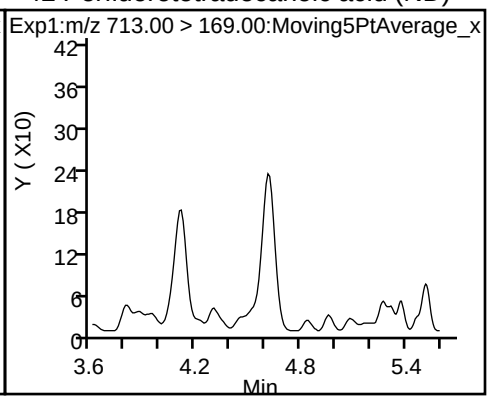
41 Perfluorotridecanoic acid (ND)



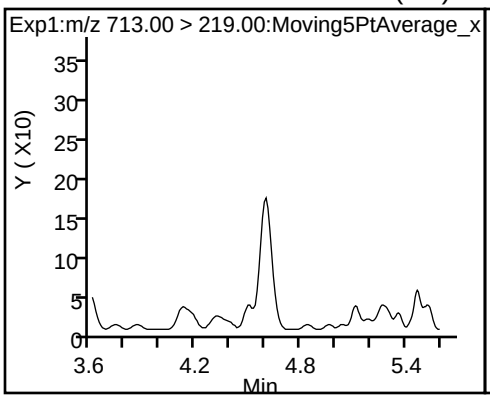
41 Perfluorotridecanoic acid (ND)



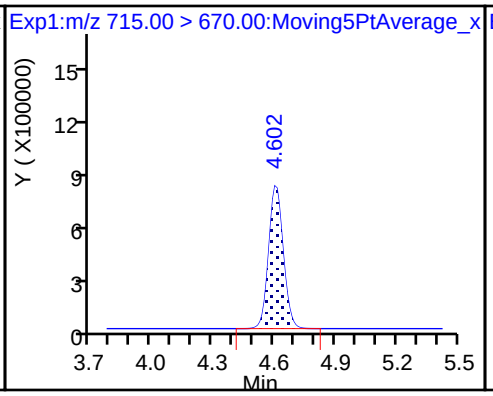
42 Perfluorotetradecanoic acid (ND)



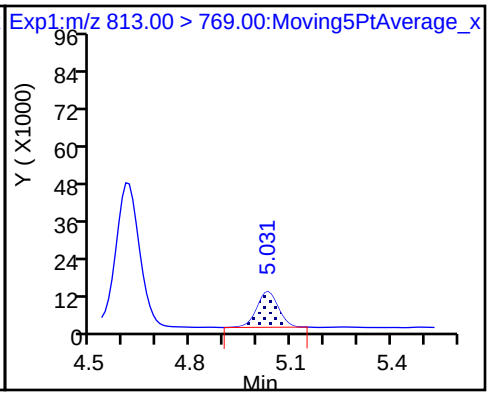
42 Perfluorotetradecanoic acid (ND)



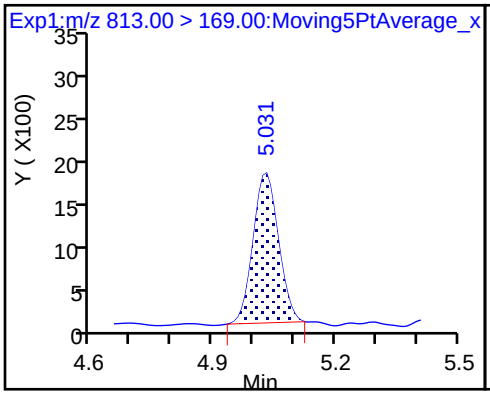
D 43 13C2-PFTeDA



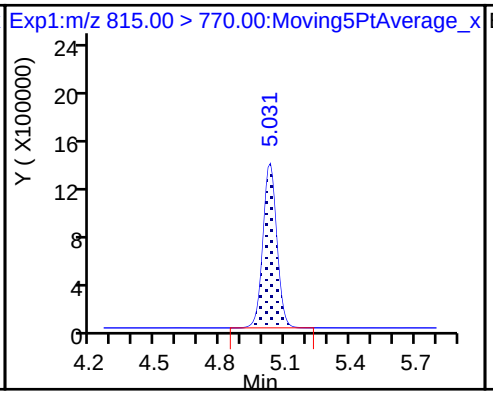
45 Perfluorohexadecanoic acid



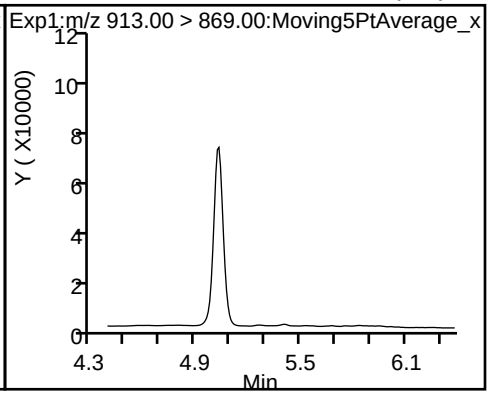
45 Perfluorohexadecanoic acid



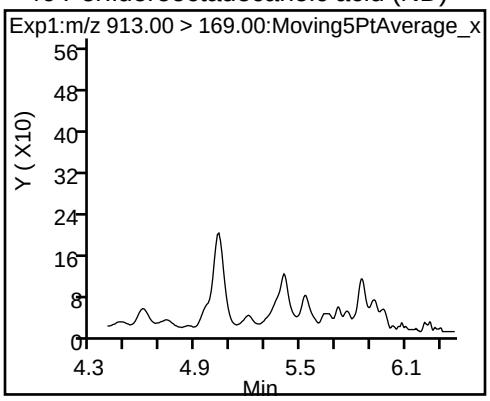
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

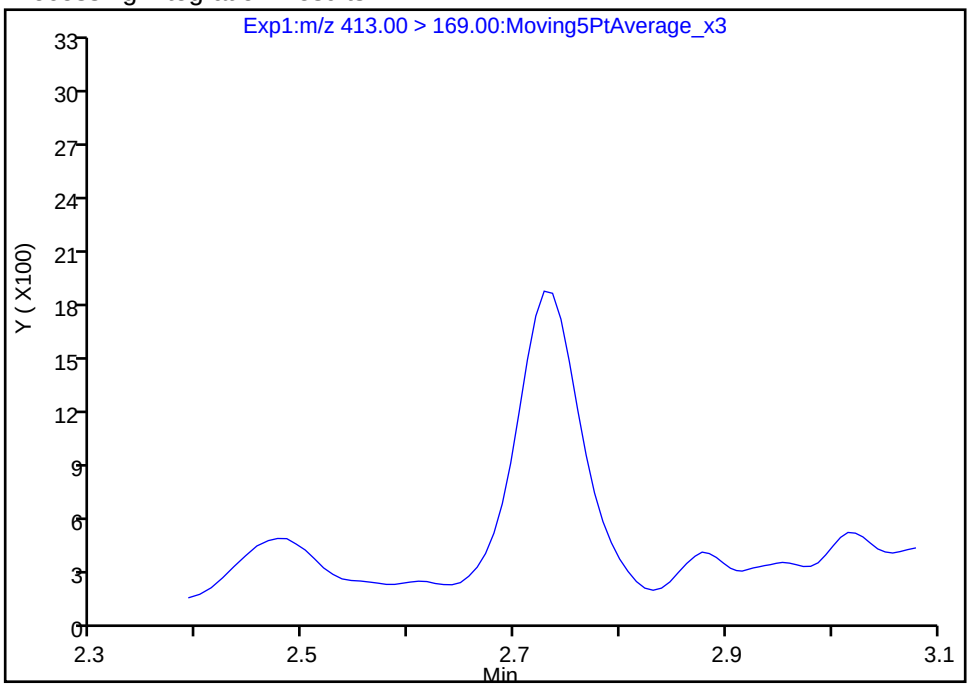
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_008.d				
Injection Date:	28-Mar-2018 18:59:38	Instrument ID:	A8_N		
Lims ID:	MB 320-215106/1-A				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

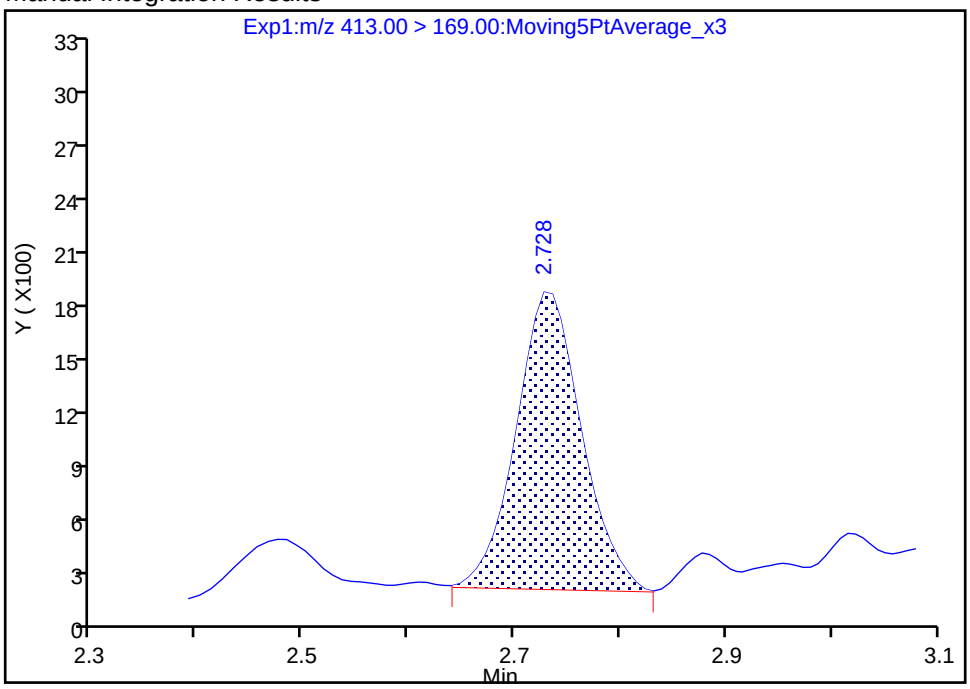
Processing Integration Results

RT: 2.73
Area: 0
Amount: 0.006116
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 7221
Amount: 0.006116
Amount Units: ng/ml



Reviewer: hannigana, 29-Mar-2018 07:36:58

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-215908/1-A

Matrix: Solid | Lab File ID: 2018.04.06LLA_007.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 04/02/2018 14:27

Sample wt/vol: 5.00(g) | Date Analyzed: 04/06/2018 14:15

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 216698 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2FTS	0.00015	U	0.0020	0.00015

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2FTS	64		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_007.d
Lims ID: MB 320-215908/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Apr-2018 14:15:53 ALS Bottle#: 1 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: MB 320-215908/1-A
Misc. Info.: Plate: 1 Rack: 5
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:26:22 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 07-Apr-2018 11:22:46

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.425	1.430	-0.005	1.000	25769	0.0140			9.1	M
D 1 13C4 PFBA										
217.00 > 172.00	1.425	1.430	-0.005	1.000	4975495	1.53		61.3	22685	
D 3 13C5-PFPeA										
267.90 > 223.00	1.685	1.694	-0.009	0.561	3186267	1.51		60.3	62755	
D 47 13C3-PFBS										
301.90 > 83.00	1.721	1.730	-0.009	1.000	78737	1.63		69.9	690	
D 7 13C2 PFHxA										
315.00 > 270.00	1.960	1.971	-0.011	1.000	3428734	1.47		58.8	73162	
D 9 13C4-PFHpA										
367.00 > 322.00	2.282	2.308	-0.026	1.000	3857686	1.72		68.9	90737	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.308	2.319	-0.011	1.000	12152	0.005229			118	
399.00 > 99.00	2.295	2.319	-0.024	0.994	3315		3.67(1.50-4.49)		21.9	
D 11 18O2 PFHxS										
403.00 > 84.00	2.308	2.321	-0.013	1.000	4920797	1.76		74.5	98712	
D 12 M2-6:2FTS										
429.00 > 81.00	2.612	2.629	-0.017	1.000	785401	1.52		63.9	12880	
* 62 13C2-PFOA										
415.00 > 370.00	2.636	2.660	-0.024		5876253	2.50			79931	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.644	2.660	-0.016	1.003	10942	0.006178			10.3	M
413.00 > 169.00	2.636	2.660	-0.024	1.000	8136		1.34(0.84-2.52)		28.5	
D 14 13C4 PFOA										
417.00 > 372.00	2.636	2.660	-0.024	1.000	3734260	1.70		67.8	82992	
D 18 13C4 PFOS										
503.00 > 80.00	3.002	3.021	-0.019	1.000	3323032	1.71		71.6	70681	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 19 13C5 PFNA										
468.00 > 423.00	3.002	3.028	-0.026	1.000	3332635	1.79		71.5	89495	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.009	3.030	-0.021	1.002	55133	0.0347			884	
499.00 > 99.00	3.002	3.030	-0.028	1.000	14445		3.82(2.31-6.93)		143	M
D 21 13C8 FOSA										
506.00 > 78.00	3.358	3.356	0.002	1.000	4703970	1.72		68.6	46490	
D 26 M2-8:2FTS										
529.00 > 81.00	3.350	3.374	-0.024	1.000	1300226	2.16		90.2	27707	
D 23 13C2 PFDA										
515.00 > 470.00	3.358	3.384	-0.026	1.000	3083362	1.96		78.3	89236	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.517	3.542	-0.025	1.000	1230598	1.46		58.4	18393	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.685	3.711	-0.026	1.000	1380920	1.56		62.5	8054	
D 30 13C2 PFUnA										
565.00 > 520.00	3.685	3.722	-0.037	1.000	2455280	1.91		76.4	36038	
D 36 13C2 PFDoA										
615.00 > 570.00	3.975	4.011	-0.036	1.000	2734191	1.91		76.4	22575	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.468	4.513	-0.045	1.000	3195551	1.76		70.3	22023	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.887	4.922	-0.035	1.002	37737	-0.000193			7.3	
813.00 > 169.00	4.878	4.922	-0.044	1.000	5567		6.78(2.86-8.58)		22.2	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.878	4.933	-0.055	1.000	4698022	1.67		67.0	10846	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:26:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_007.d

Injection Date: 06-Apr-2018 14:15:53 Instrument ID: A8_N

Lims ID: MB 320-215908/1-A

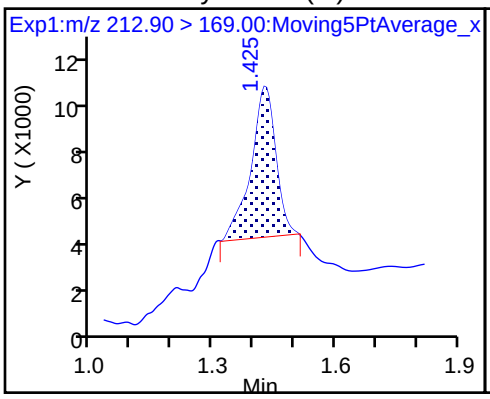
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 5

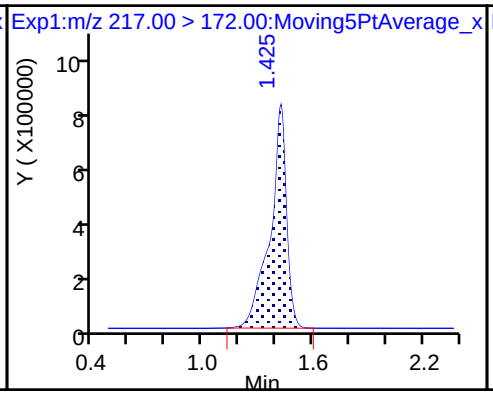
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

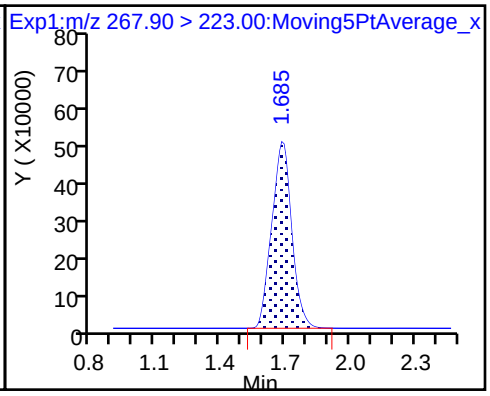
2 Perfluorobutyric acid (M)



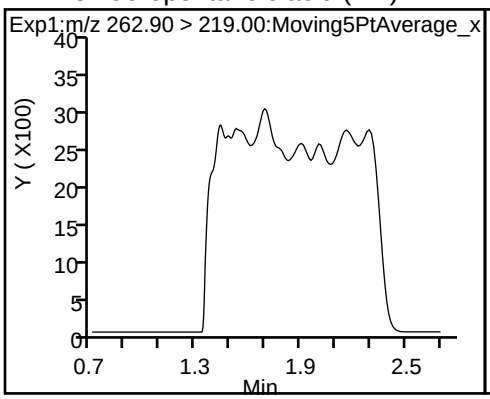
D 1 13C4 PFBA



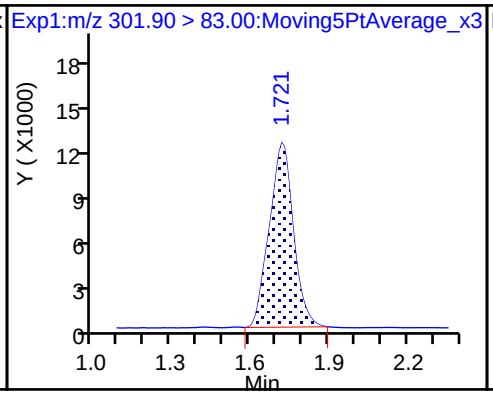
D 3 13C5-PFPeA



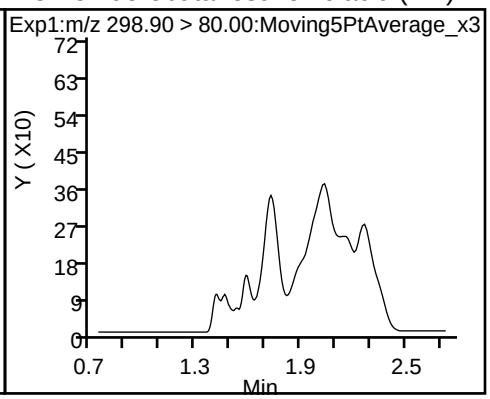
4 Perfluoropentanoic acid (ND)



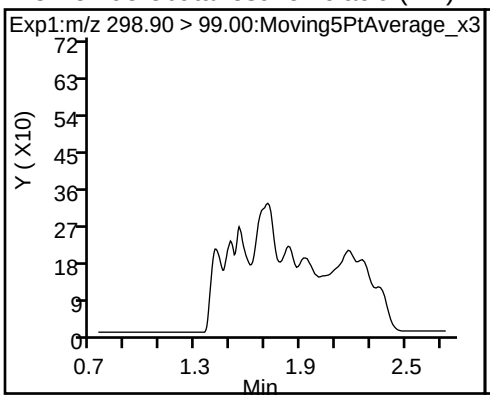
D 47 13C3-PFBS



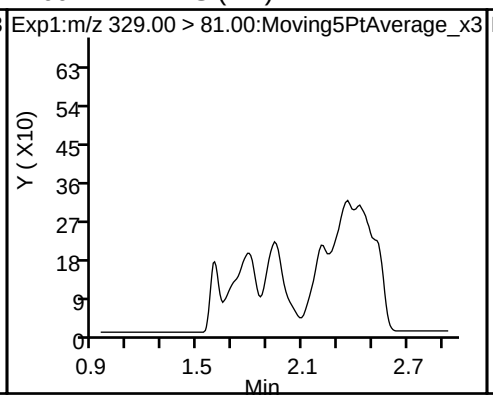
5 Perfluorobutanesulfonic acid (ND)



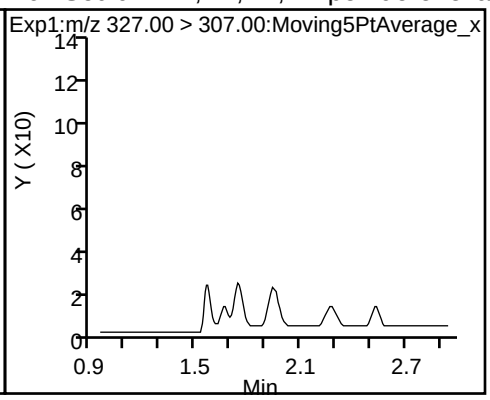
5 Perfluorobutanesulfonic acid (ND)



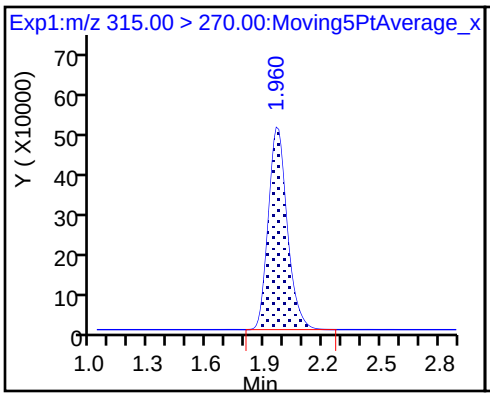
D 60 M2-4:2FTS (ND)



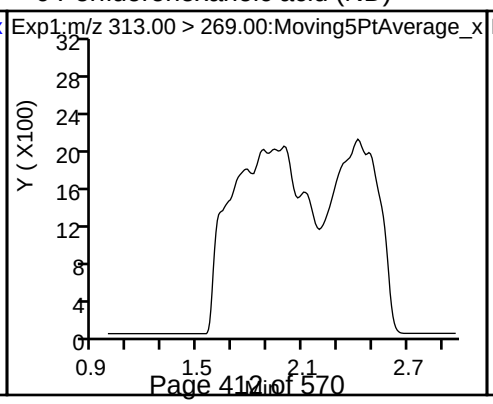
61 Sodium 1H,1H,2H,2H-perfluorohexane (ND)



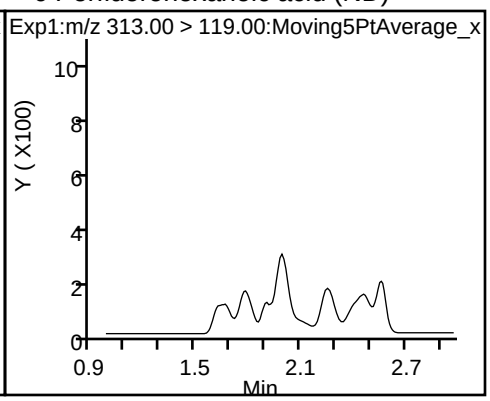
D 7 13C2 PFHxA



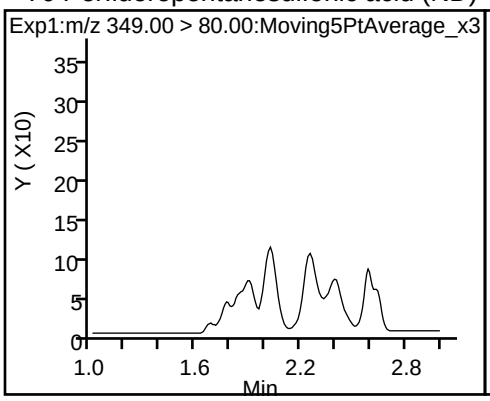
6 Perfluorohexanoic acid (ND)



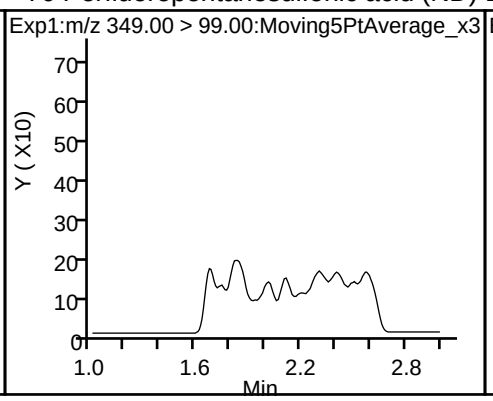
6 Perfluorohexanoic acid (ND)



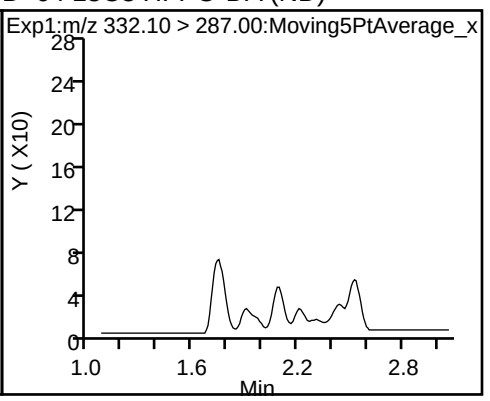
70 Perfluoropentanesulfonic acid (ND)



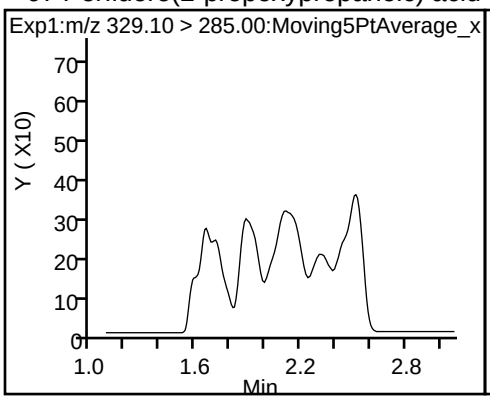
70 Perfluoropentanesulfonic acid (ND)



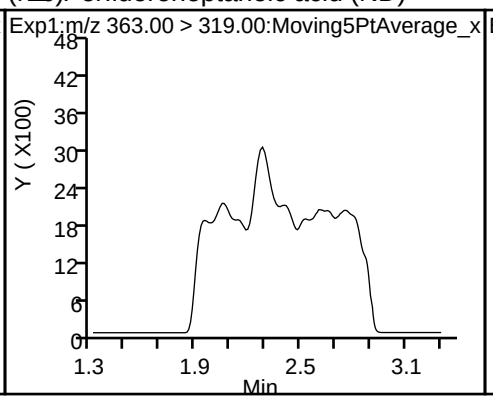
D 64 13C3 HFPO-DA (ND)



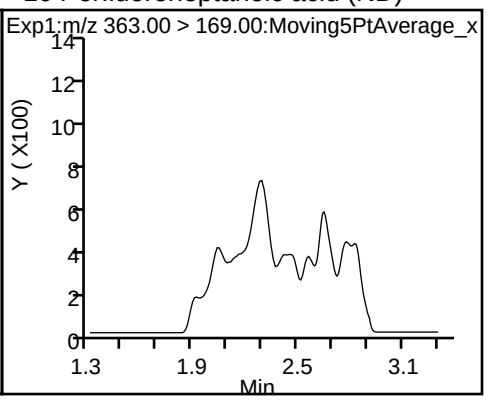
67 Perfluoro(2-propoxypropanoic) acid (ND)



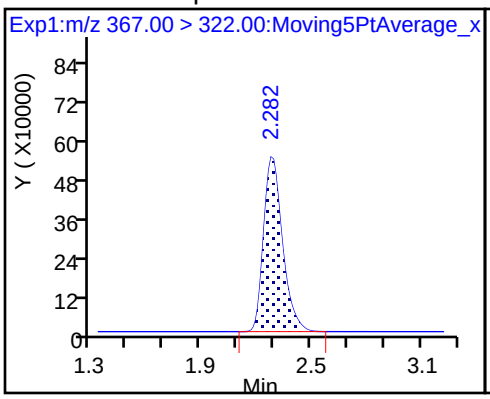
10 Perfluoroheptanoic acid (ND)



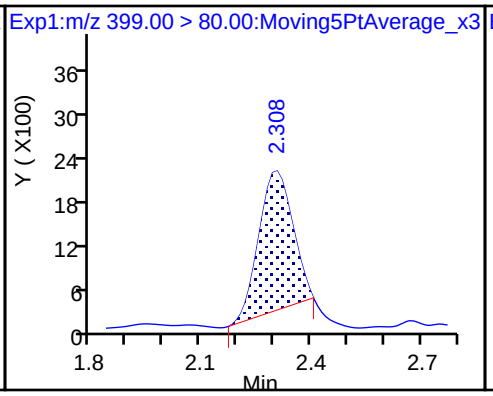
10 Perfluoroheptanoic acid (ND)



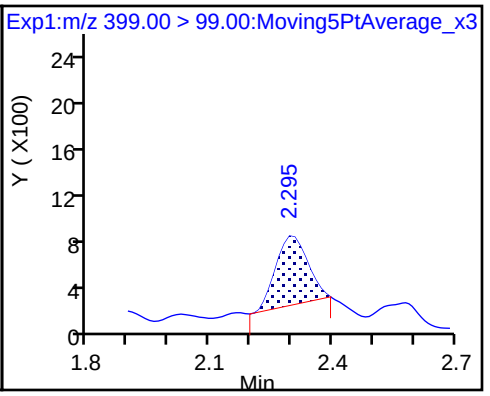
D 9 13C4-PFHpA



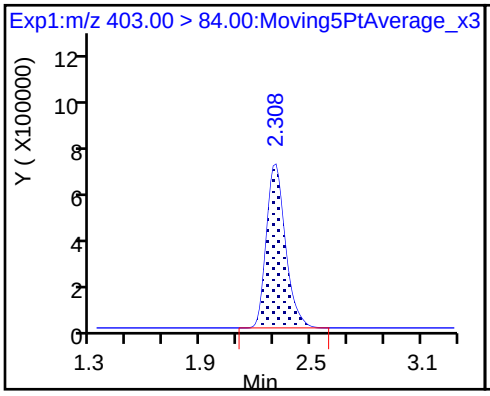
8 Perfluorohexanesulfonic acid



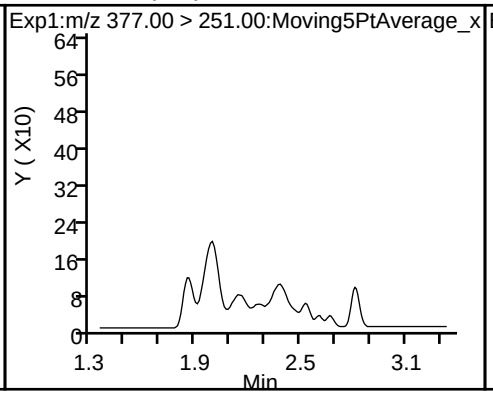
8 Perfluorohexanesulfonic acid



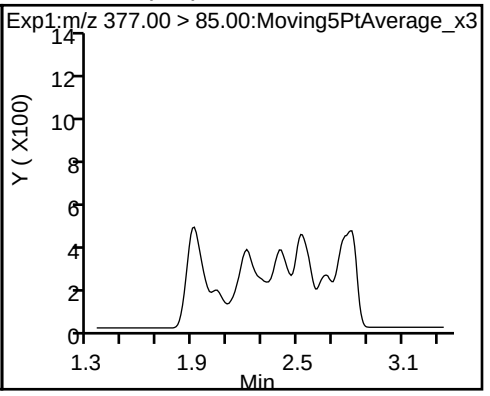
D 11 18O2 PFHxS



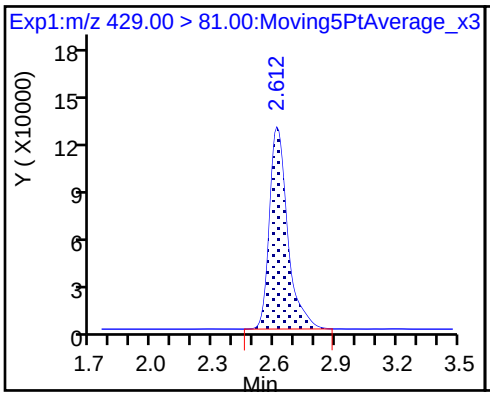
65 Adona (ND)



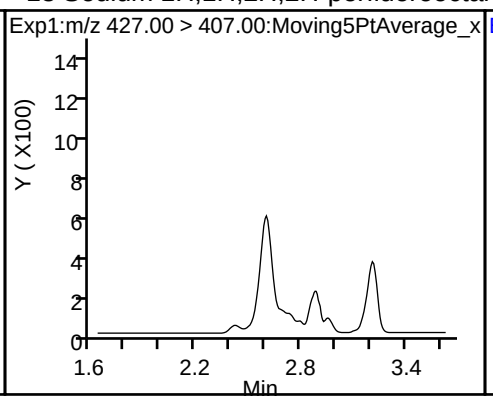
65 Adona (ND)



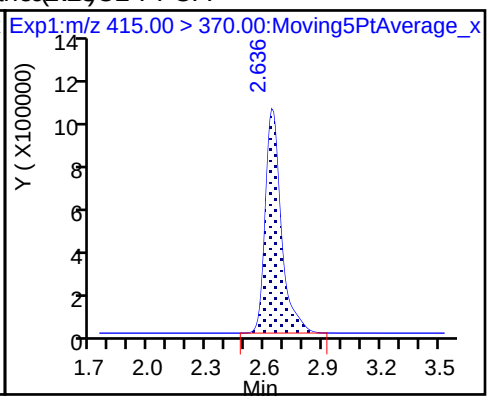
D 12 M2-6:2FTS



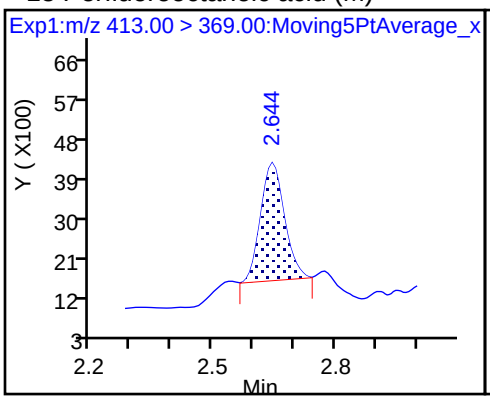
13 Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (ND)



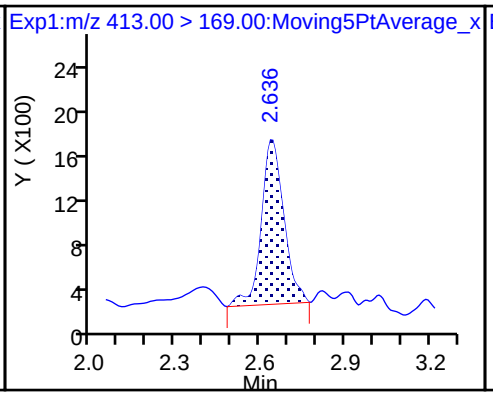
M2-8:2FTS



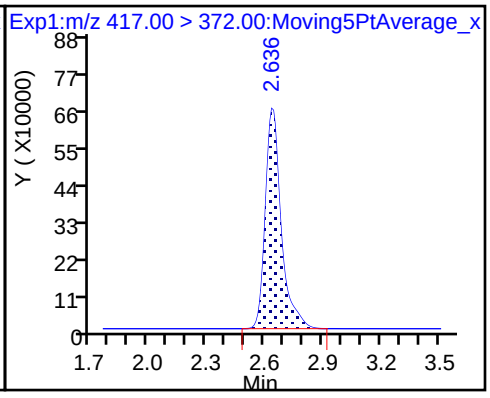
15 Perfluorooctanoic acid (M)



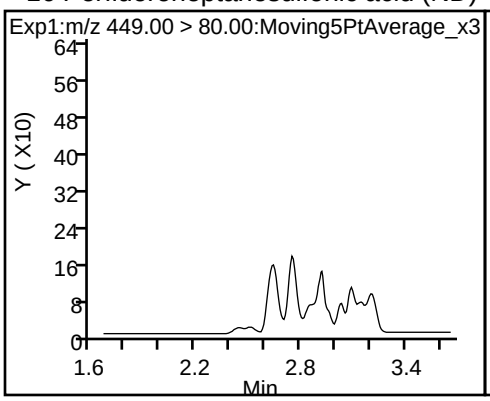
15 Perfluorooctanoic acid



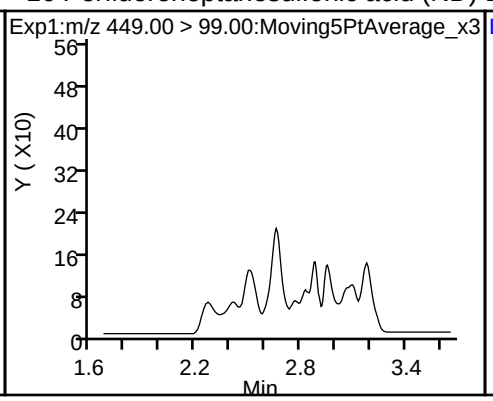
D 14 13C4 PFOA



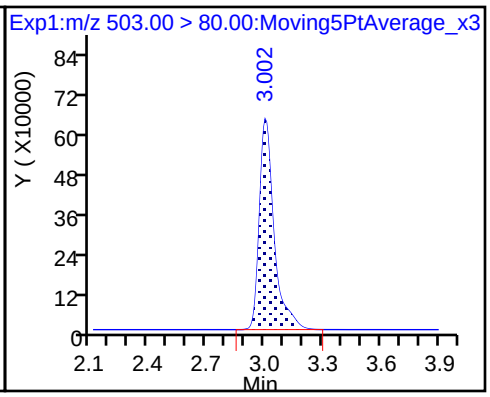
16 Perfluoroheptanesulfonic acid (ND)



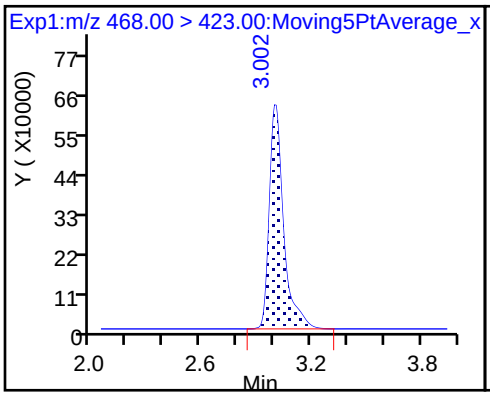
16 Perfluoroheptanesulfonic acid (ND)



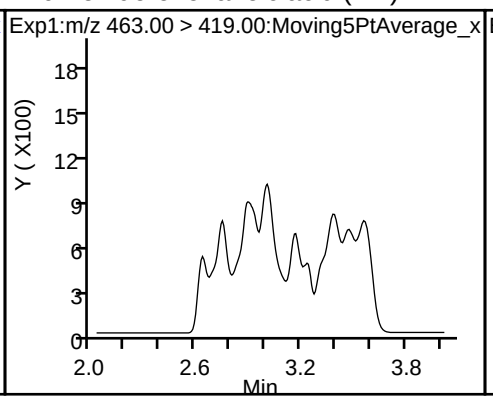
D 18 13C4 PFOS



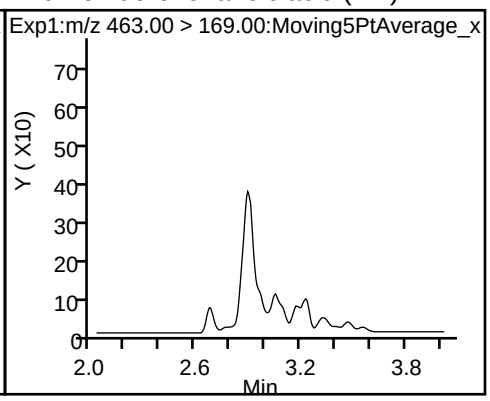
D 19 13C5 PFNA



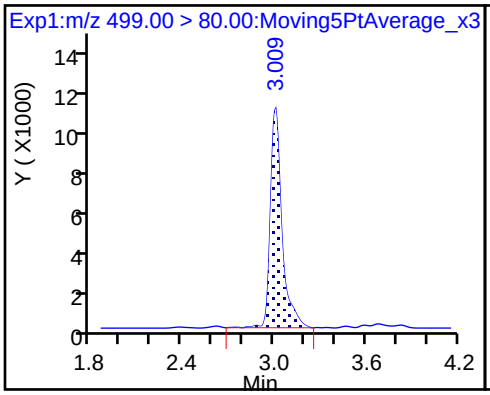
20 Perfluorononanoic acid (ND)



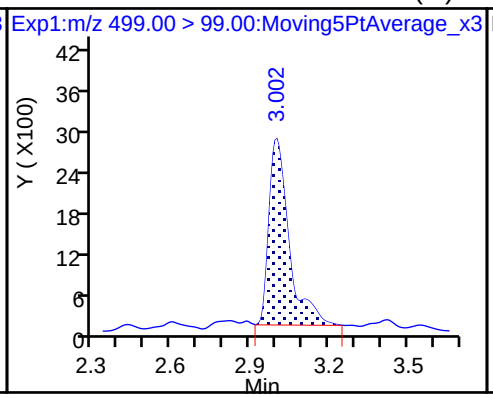
20 Perfluorononanoic acid (ND)



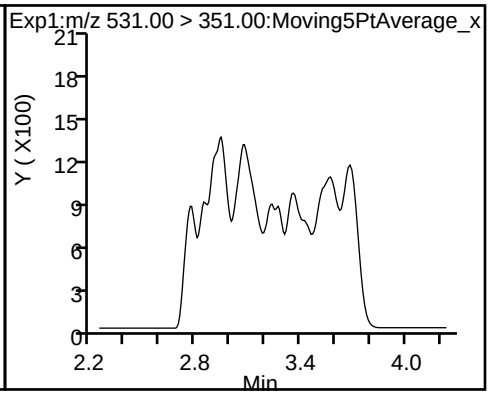
17 Perfluorooctane sulfonic acid



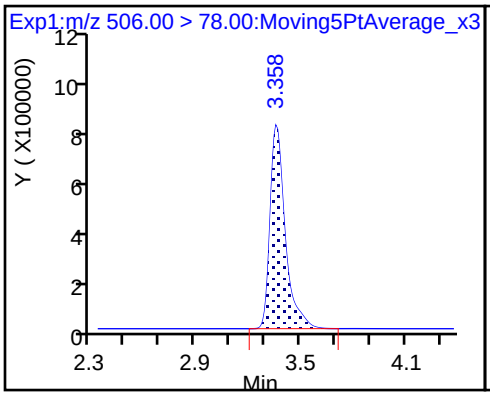
17 Perfluorooctane sulfonic acid (M)



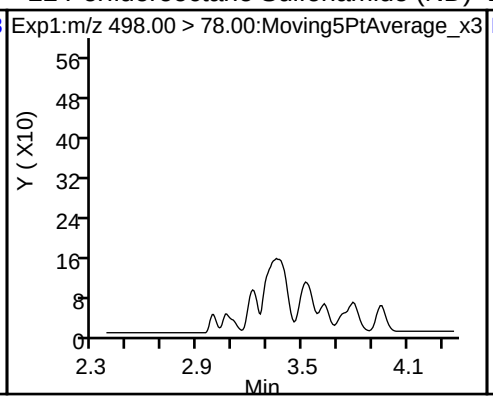
69 9-Chlorohexadecafluoro-3-oxanonane (ND)



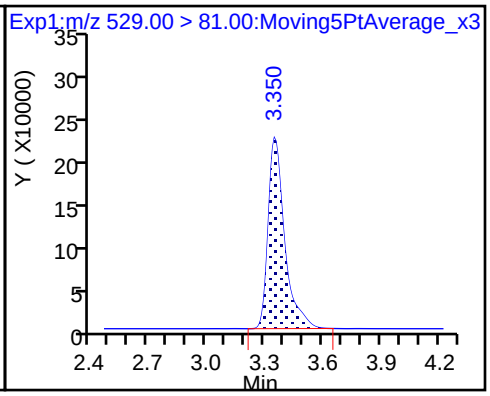
D 21 13C8 FOSA



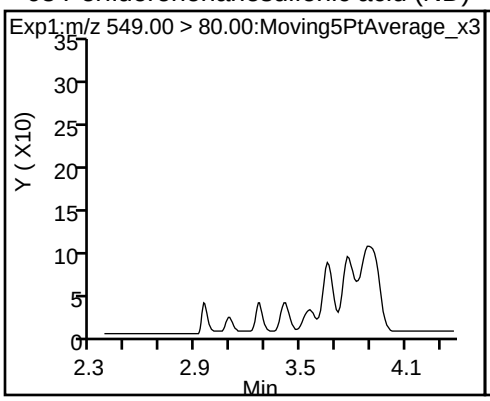
22 Perfluorooctane Sulfonamide (ND)



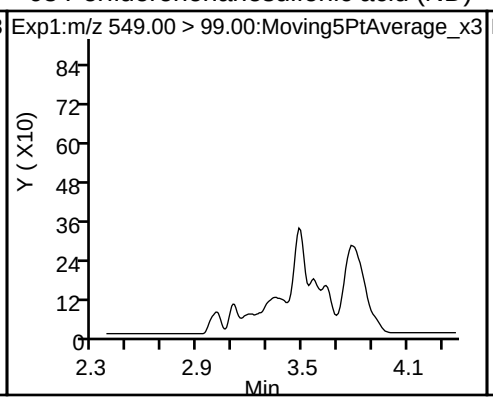
D 26 M2-8:2FTS



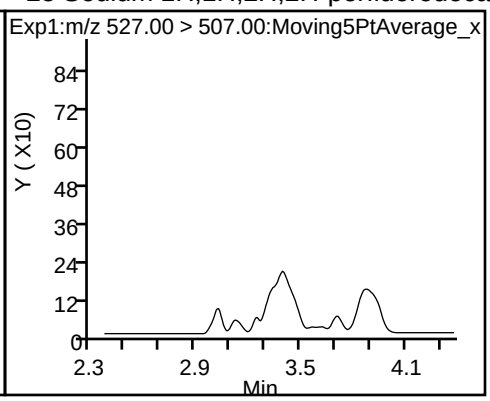
68 Perfluorononanesulfonic acid (ND)



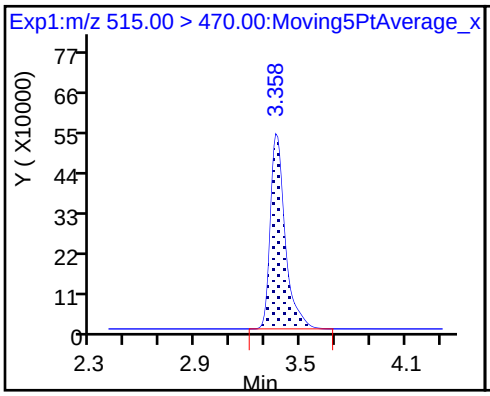
68 Perfluorononanesulfonic acid (ND)



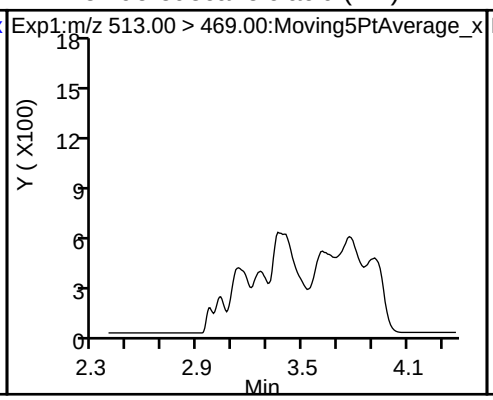
25 Sodium 1H,1H,2H,2H-perfluorodecane (ND)



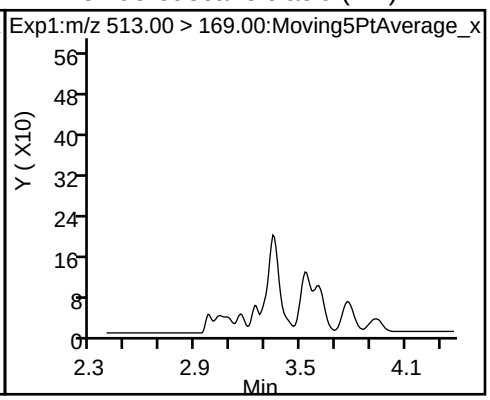
D 23 13C2 PFDA



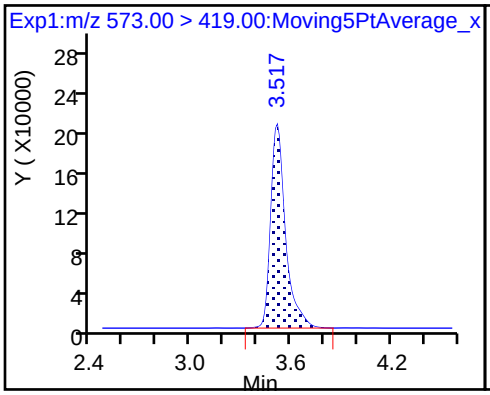
24 Perfluorodecanoic acid (ND)



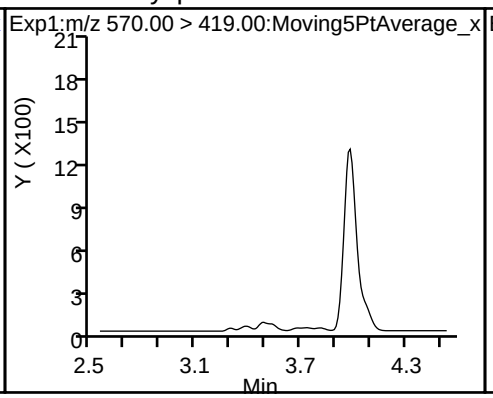
24 Perfluorodecanoic acid (ND)



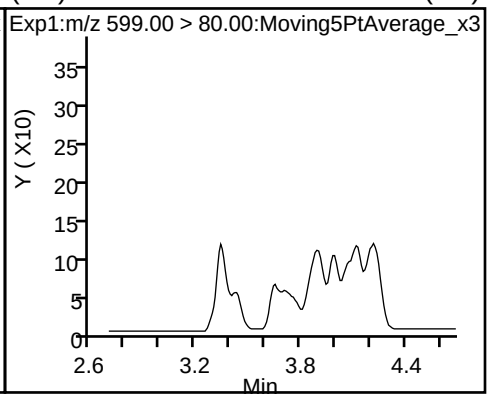
D 27 d3-NMeFOSAA



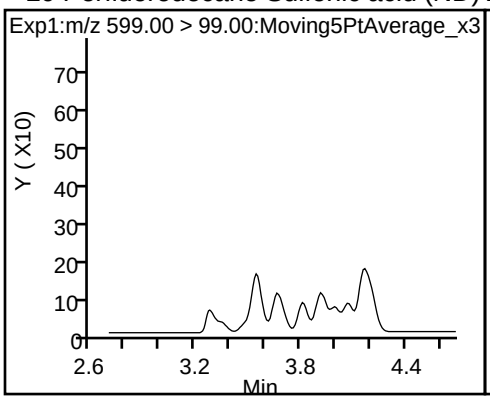
28 N-methyl perfluorooctane sulfonami (ND)



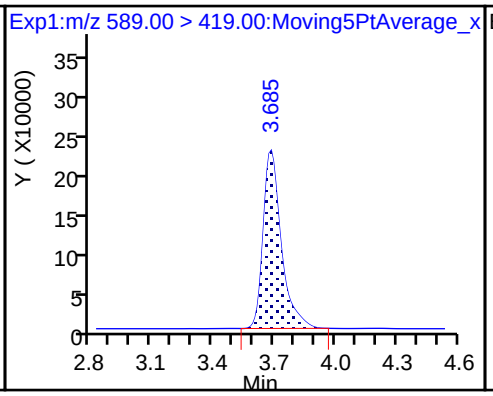
29 Perfluorodecane Sulfonic acid (ND)



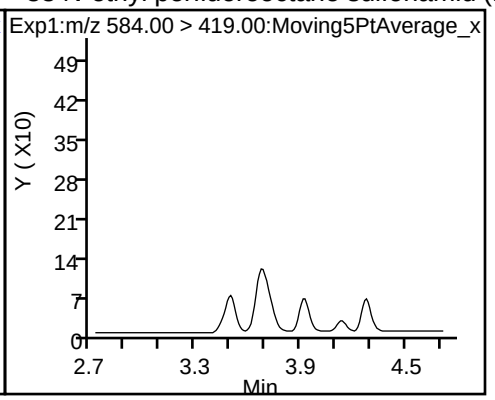
29 Perfluorodecane Sulfonic acid (ND)



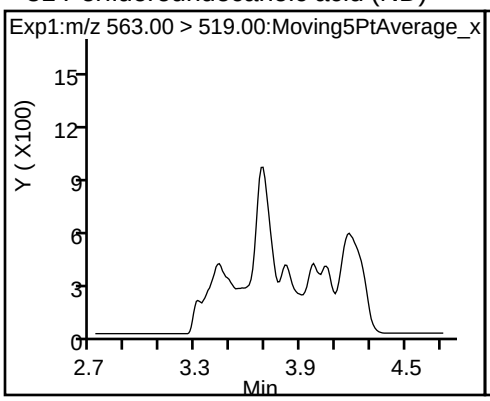
D 32 d5-NEtFOSAA



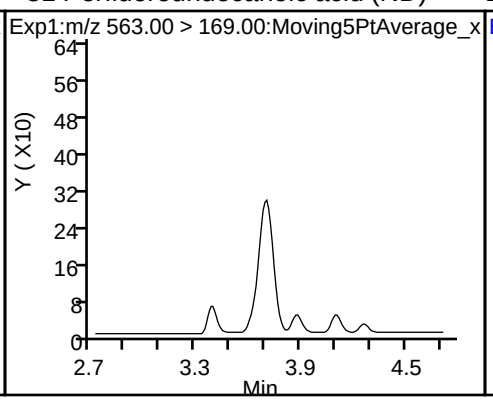
33 N-ethyl perfluorooctane sulfonamid (ND)



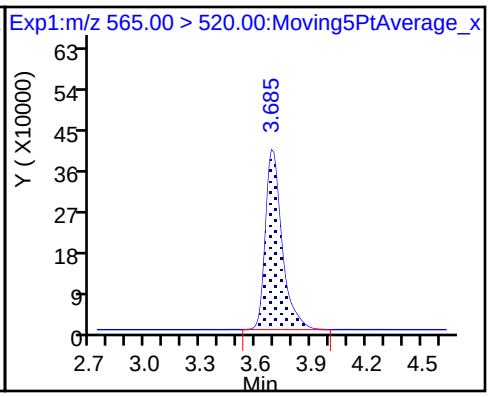
31 Perfluoroundecanoic acid (ND)



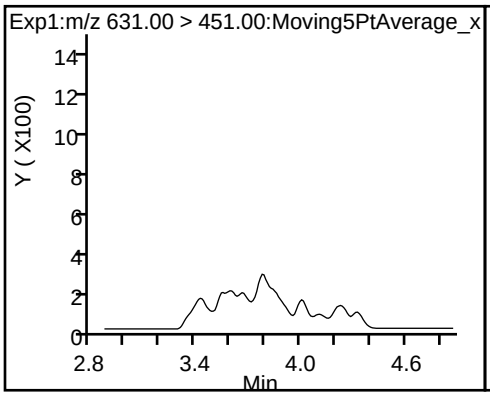
31 Perfluoroundecanoic acid (ND)



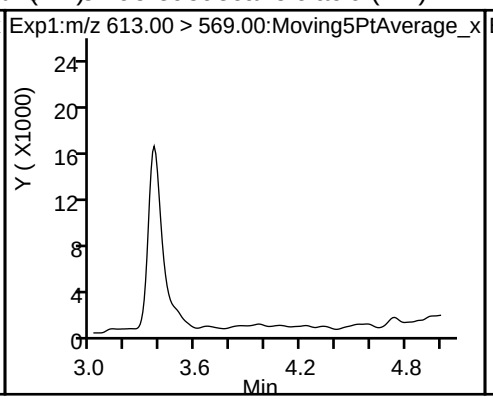
D 30 13C2 PFUnA



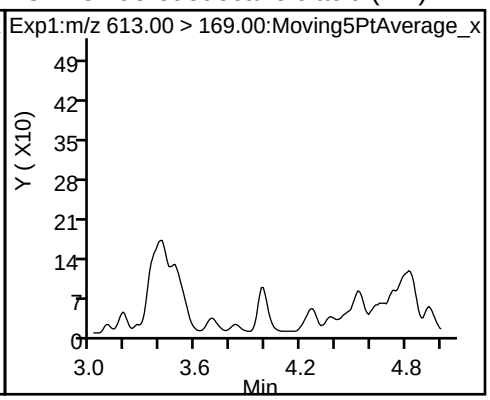
66 11-Chloroeicosafluoro-3-oxaundecan (ND)



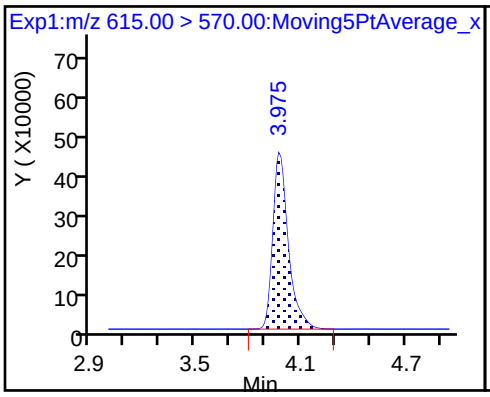
37 Perfluorododecanoic acid (ND)



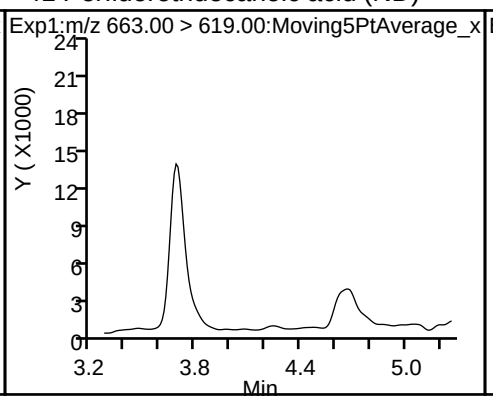
37 Perfluorododecanoic acid (ND)



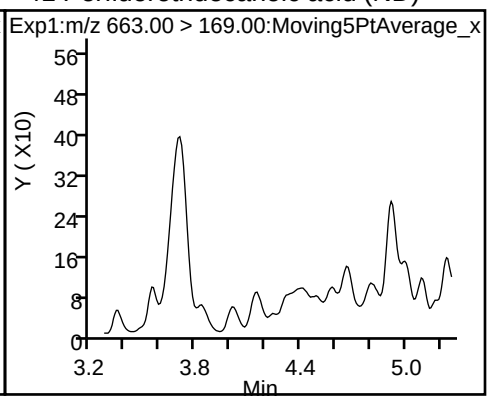
D 36 13C2 PFDoA



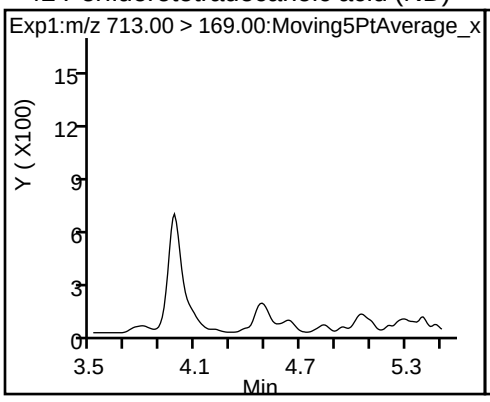
41 Perfluorotridecanoic acid (ND)



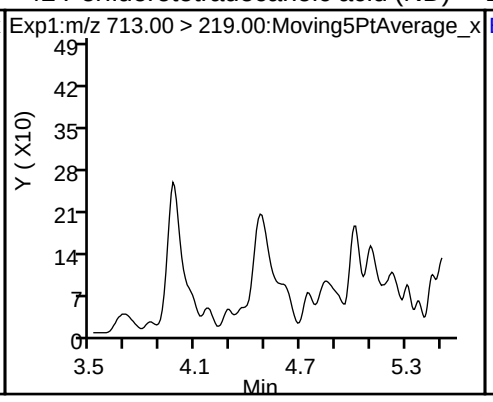
41 Perfluorotridecanoic acid (ND)



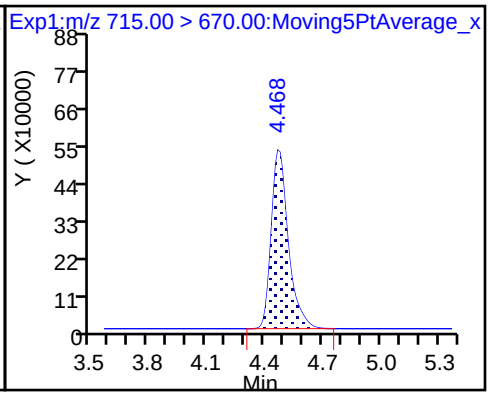
42 Perfluorotetradecanoic acid (ND)



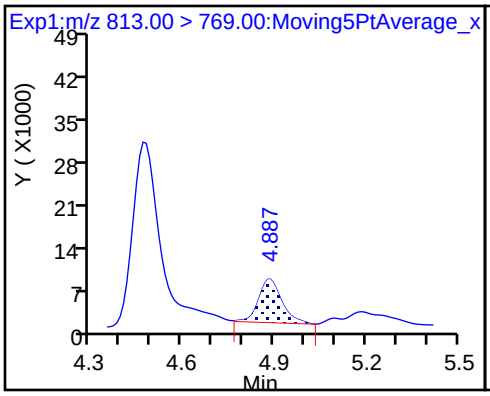
42 Perfluorotetradecanoic acid (ND)



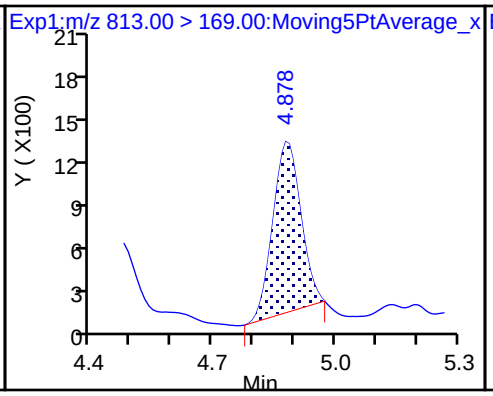
D 43 13C2-PFTeDA



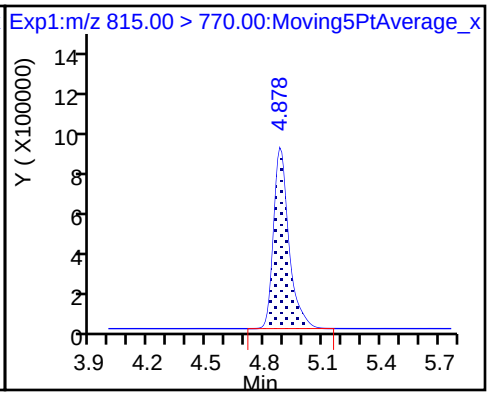
45 Perfluorohexadecanoic acid



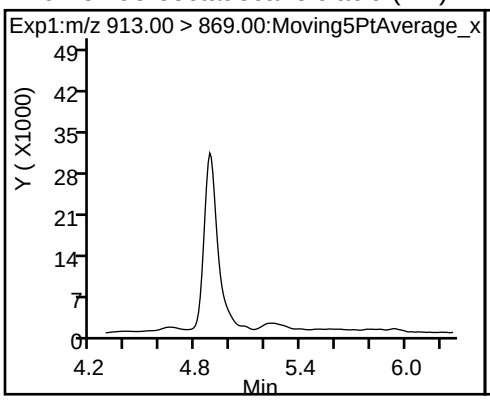
45 Perfluorohexadecanoic acid



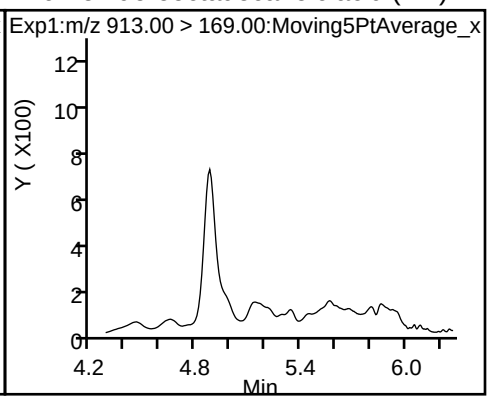
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-215068/2-A

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_034.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:16

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.00202		0.00020	0.000028
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.00184		0.00020	0.000077
307-24-4	Perfluorohexanoic acid (PFHxA)	0.00197		0.00020	0.000042
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.00186		0.00020	0.000029
335-67-1	Perfluorooctanoic acid (PFOA)	0.00181		0.00020	0.000086
375-95-1	Perfluorononanoic acid (PFNA)	0.00197		0.00020	0.000036
335-76-2	Perfluorodecanoic acid (PFDA)	0.00202		0.00020	0.000022
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.00179		0.00020	0.000036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.00187		0.00020	0.000067
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	0.00200		0.00020	0.000051
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.00184		0.00020	0.000054
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00173		0.00020	0.000025
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00162		0.00020	0.000031
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00181		0.00020	0.000035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.00194		0.00050	0.00020
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.00181		0.00020	0.000039
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.00194		0.00020	0.000082
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.00189	J	0.0020	0.00039
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00198	J	0.0020	0.00037
27619-97-2	6:2FTS	0.0146		0.0020	0.00015
39108-34-4	8:2FTS	0.00182	J	0.0020	0.00025

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-215068/2-A

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_034.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:16

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88		25-150
STL01893	13C5 PFPeA	84		25-150
STL00993	13C2 PFHxA	87		25-150
STL01892	13C4-PFHpA	92		25-150
STL00990	13C4 PFOA	92		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	93		25-150
STL00997	13C2 PFUnA	98		25-150
STL00998	13C2 PFDoA	95		25-150
STL02116	13C2-PFTeDA	99		25-150
STL02337	13C3-PFBS	85		25-150
STL00994	18O2 PFHxS	93		25-150
STL00991	13C4 PFOS	90		25-150
STL01056	13C8 FOSA	79		25-150
STL02118	d3-NMeFOSAA	85		25-150
STL02117	d5-NEtFOSAA	87		25-150
STL02279	M2-6:2FTS	93		25-150
STL02280	M2-8:2FTS	96		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_034.d
Lims ID: LCS 320-215068/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Mar-2018 18:16:26 ALS Bottle#: 25 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-215068/2-a
Misc. Info.: Plate: 1 Rack: 6
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:11:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.441	1.435	0.006	1.000	6016826	2.19		87.6	40302	
2 Perfluorobutyric acid										
212.90 > 169.00	1.441	1.442	-0.001	1.000	2249068	1.01		101	539	
D 3 13C5-PFPeA										
267.90 > 223.00	1.703	1.701	0.002	0.557	3774319	2.11		84.4	68569	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.703	1.703	0.0	1.000	1662108	0.9198		92.0	1217	
D 47 13C3-PFBS										
301.90 > 83.00	1.739	1.737	0.002	1.000	81411	1.99		85.5	673	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.739	1.739	0.0	1.000	2385555	0.8636		97.7	1073	
298.90 > 99.00	1.739	1.739	0.0	1.000	991169		2.41(1.25-3.74)		815	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.960	1.961	-0.001	1.000	582240	0.9637		103	32936	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.991	0.002	1.000	4275170	2.17		86.7	103789	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.994	-0.001	1.000	1725845	0.9863		98.6	2234	
313.00 > 119.00	1.993	1.994	-0.001	1.000	155686		11.09(5.03-15.10)		1544	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.016	0.0	1.000	2246877	0.9012		96.1	42365	
349.00 > 99.00	2.016	2.016	0.0	1.000	828301		2.71(1.36-4.07)		6337	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	285079	NR		0.0	1863	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	1.000	4374935	2.31		92.3	100030	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.334	2.322	0.012	1.006	1772352	0.9321		93.2	1097	
363.00 > 169.00	2.321	2.322	-0.001	1.000	731137		2.42(1.13-3.40)		2132	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.332	0.002	1.000	5201238	2.20		93.0	119296	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.336	-0.002	1.000	1988410	0.8095		89.0	6697	
399.00 > 99.00	2.334	2.336	-0.002	1.000	664049		2.99(1.50-4.49)		2914	
65 Adona										
377.00 > 251.00	2.373	2.374	-0.001	1.000	4969334	0.9426		94.3	54833	
377.00 > 85.00	2.373	2.374	-0.001	1.000	3039282		1.64(0.84-2.53)		38739	
D 12 M2-6:2FTS										
429.00 > 81.00	2.661	2.655	0.006	1.000	969400	2.21		93.2	18458	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.661	2.668	-0.007	1.000	5558505	7.29		769	43274	
D 14 13C4 PFOA										
417.00 > 372.00	2.691	2.685	0.006	1.000	4294022	2.30		92.2	131667	
* 62 13C2-PFOA										
415.00 > 370.00	2.691	2.691	0.0		4971430	2.50			98551	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.691	2.691	0.0	1.000	1841114	0.9039		90.4	734	
413.00 > 169.00	2.691	2.691	0.0	1.000	971175		1.90(0.84-2.52)		2844	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.698	2.698	0.0	1.000	1780721	0.9032		94.9	38343	
449.00 > 99.00	2.691	2.698	-0.007	0.997	480720		3.70(1.94-5.82)		9410	
D 18 13C4 PFOS										
503.00 > 80.00	3.060	3.051	0.009	1.000	3535695	2.15		90.1	41414	
D 19 13C5 PFNA										
468.00 > 423.00	3.060	3.051	0.009	1.000	3570955	2.26		90.6	78650	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.060	3.060	0.0	1.000	1638487	0.9693		104	3339	
499.00 > 99.00	3.060	3.060	0.0	1.000	374300		4.38(2.31-6.93)		3024	
20 Perfluorononanoic acid										
463.00 > 419.00	3.060	3.060	0.0	1.000	1449202	0.9860		98.6	2088	
463.00 > 169.00	3.060	3.060	0.0	1.000	357715		4.05(1.90-5.69)		15751	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.267	3.273	-0.006	1.000	2540800	0.9184		98.5	11230	
D 21 13C8 FOSA										
506.00 > 78.00	3.389	3.388	0.001	1.000	4565725	1.97		78.7	73861	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.389	3.398	-0.009	1.000	1752611	0.9716		97.2	30953	
D 26 M2-8:2FTS										
529.00 > 81.00	3.417	3.407	0.010	1.000	1174748	2.31		96.3	28477	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.408	3.407	0.001	1.000	1091669	0.9204		95.9	36818	
549.00 > 99.00	3.408	3.407	0.001	1.000	432301		2.53(1.33-3.97)		8697	
D 23 13C2 PFDA										
515.00 > 470.00	3.417	3.416	0.001	1.000	3092418	2.32		92.9	49878	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.408	3.417	-0.009	0.997	602827	0.9112		95.1	14694	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.417	3.426	-0.009	1.000	1236412	1.01		101	4751	
513.00 > 169.00	3.427	3.426	0.001	1.003	207115		5.97(2.36-7.09)		3065	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.576	3.574	0.002	1.000	1522911	2.14		85.5	36289	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.576	3.586	-0.010	1.000	606846	0.9450		94.5	5012	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.741	3.740	0.001	1.000	1626256	2.17		87.0	10625	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.730	3.740	-0.010	1.000	929791	0.9059		94.0	34999	
599.00 > 99.00	3.730	3.740	-0.010	1.000	303242		3.07(1.39-4.16)		5154	
D 30 13C2 PFUnA										
565.00 > 520.00	3.751	3.750	0.001	1.000	2651436	2.44		97.5	70587	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.751	3.751	0.0	1.003	590975	0.99		99.1	15434	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.751	3.751	0.0	1.000	763412	0.8971		89.7	3500	
563.00 > 169.00	3.751	3.751	0.0	1.000	198497		3.85(2.12-6.36)		5179	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.908	3.918	-0.010	1.000	4039632	0.9408		99.9	25021	
D 36 13C2 PFDoA										
615.00 > 570.00	4.040	4.040	0.0	1.000	2871345	2.37		94.9	23563	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.040	4.050	-0.010	1.000	1161718	0.9359		93.6	1059	
613.00 > 169.00	4.040	4.050	-0.010	1.000	287609		4.04(2.13-6.40)		3883	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.308	4.307	0.001	1.000	1327116	1.00		100.0	998	
663.00 > 169.00	4.308	4.307	0.001	1.000	412285		3.22(1.25-3.76)		6488	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.543	4.544	-0.001	1.000	3791701	2.47		98.6	21992	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.543	4.553	-0.010	1.000	348480	0.9200		92.0	3688	
713.00 > 219.00	4.543	4.553	-0.010	1.000	270153		1.29(0.71-2.13)		5116	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.966	4.959	0.007	1.000	6228402	2.62		105	16438	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.966	4.966	0.0	1.000	2257135	0.9354		93.5	645	
813.00 > 169.00	4.966	4.966	0.0	1.000	366878		6.15(2.86-8.58)		2749	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.329	5.336	-0.007	1.000	2242716	0.9067		90.7	542	
913.00 > 169.00	5.329	5.336	-0.007	1.000	281641		7.96(3.83-11.48)		2570	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Report Date: 07-Apr-2018 11:36:08 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_034.d

Injection Date: 30-Mar-2018 18:16:26 Instrument ID: A8_N

Lims ID: LCS 320-215068/2-A

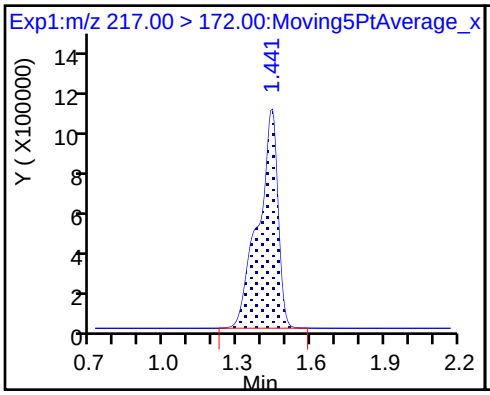
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 25 Worklist Smp#: 3

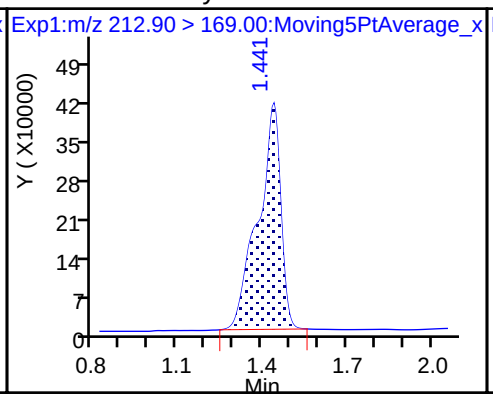
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

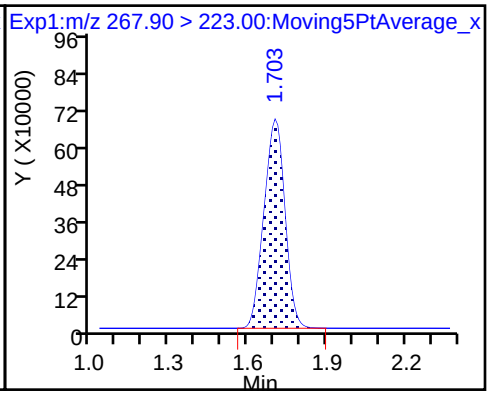
D 1 13C4 PFBA



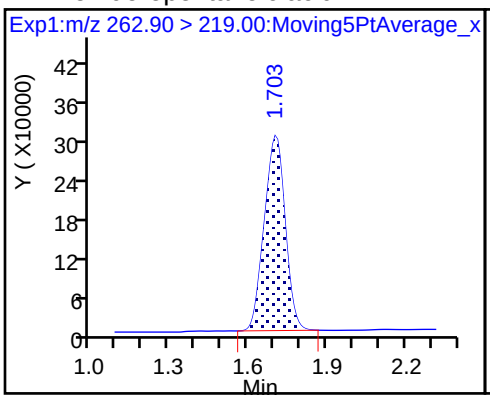
2 Perfluorobutyric acid



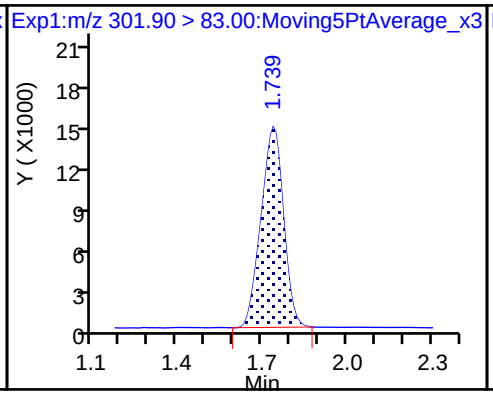
D 3 13C5-PFPeA



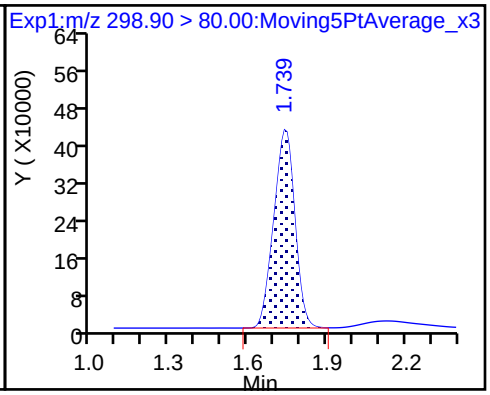
4 Perfluoropentanoic acid



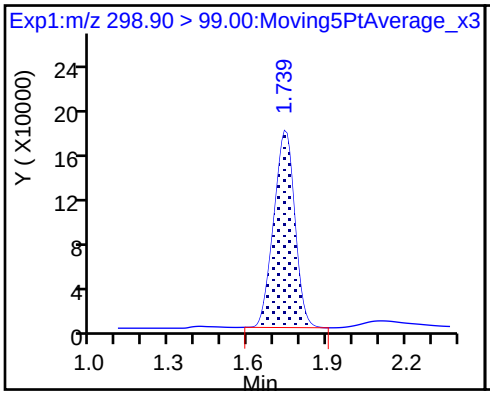
D 47 13C3-PFBS



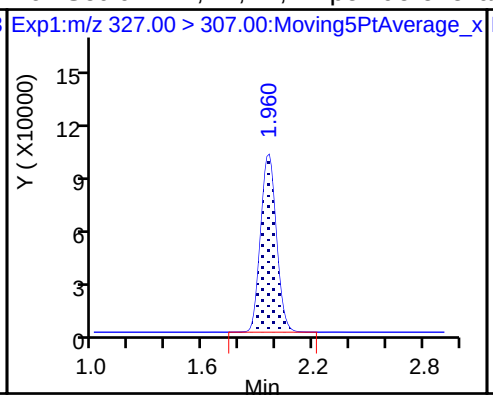
5 Perfluorobutanesulfonic acid



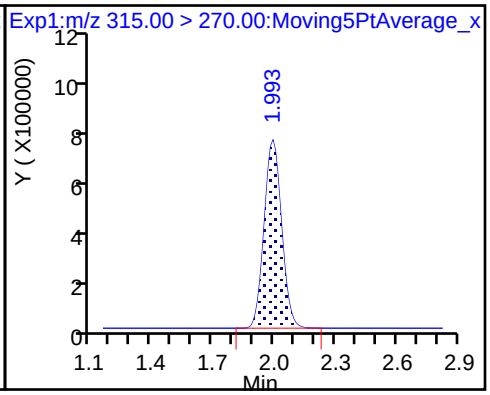
5 Perfluorobutanesulfonic acid



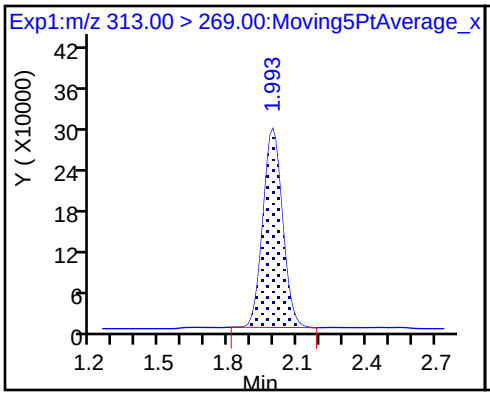
61 Sodium 1H,1H,2H,2H-perfluorohexa



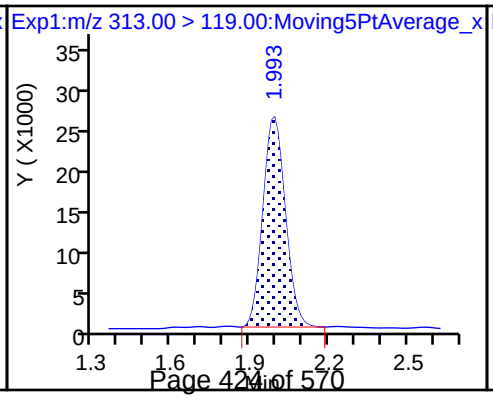
D 7 13C2 PFHxA



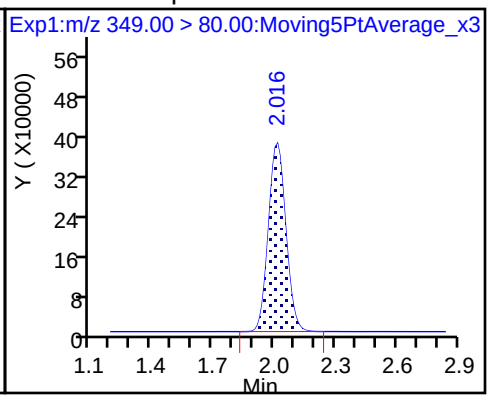
6 Perfluorohexanoic acid



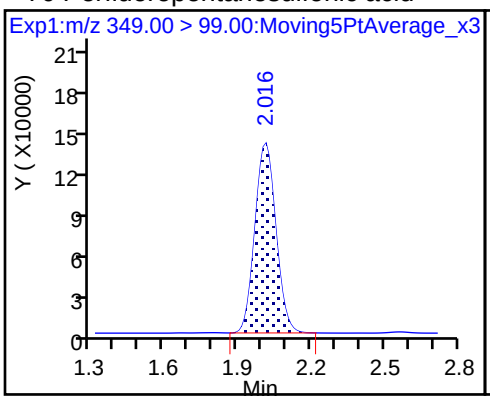
6 Perfluorohexanoic acid



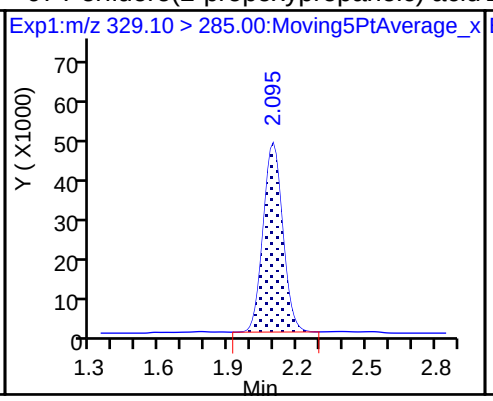
70 Perfluoropentanesulfonic acid



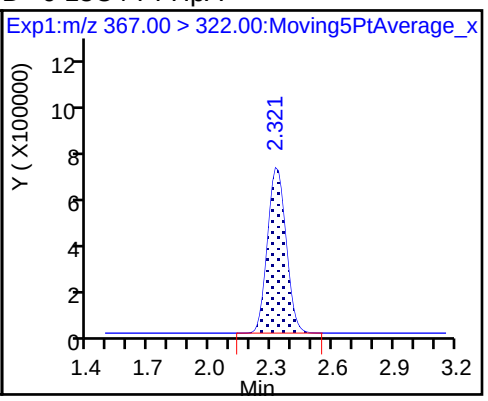
70 Perfluoropentanesulfonic acid



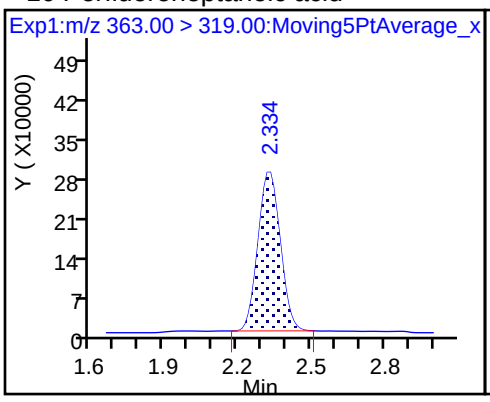
67 Perfluoro(2-propoxypropanoic) acid



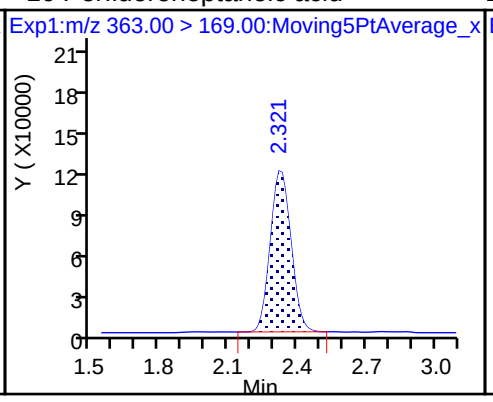
D 9 13C4-PFHpA



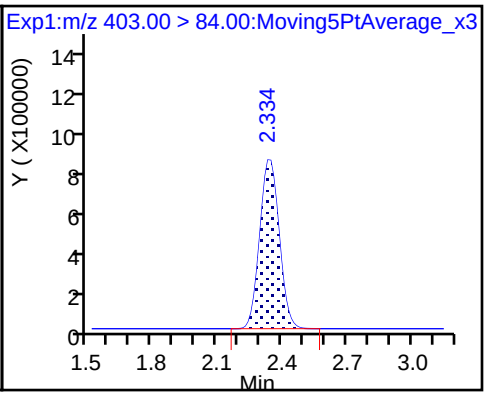
10 Perfluoroheptanoic acid



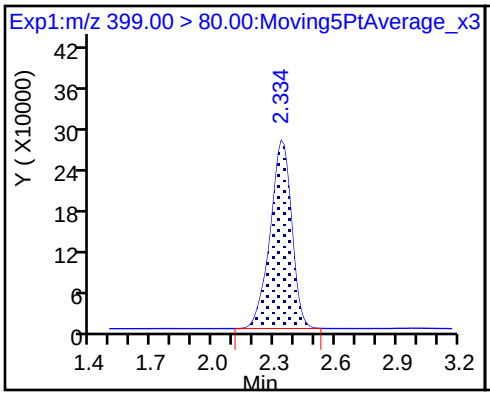
10 Perfluoroheptanoic acid



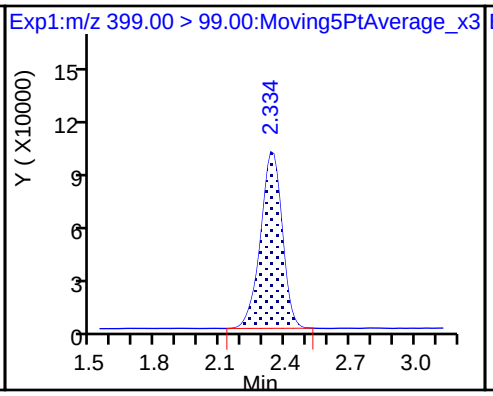
D 11 18O2 PFHxS



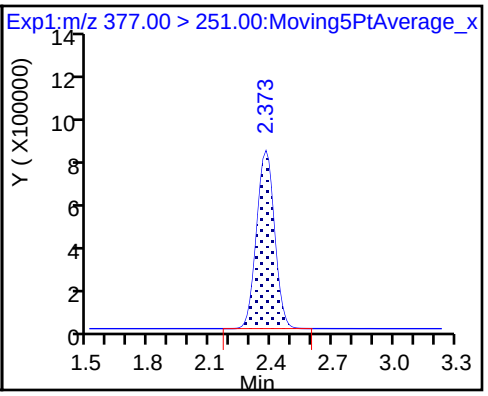
8 Perfluorohexanesulfonic acid



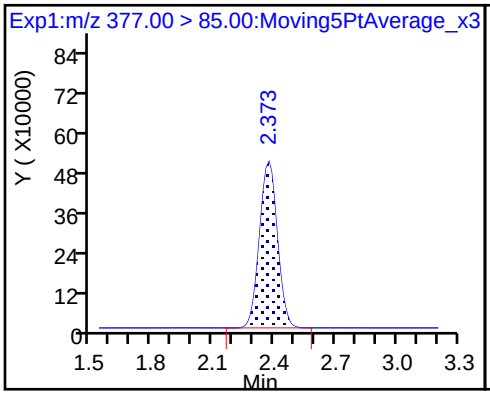
8 Perfluorohexanesulfonic acid



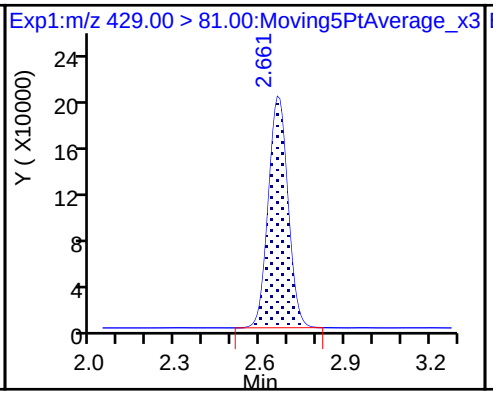
65 Adona



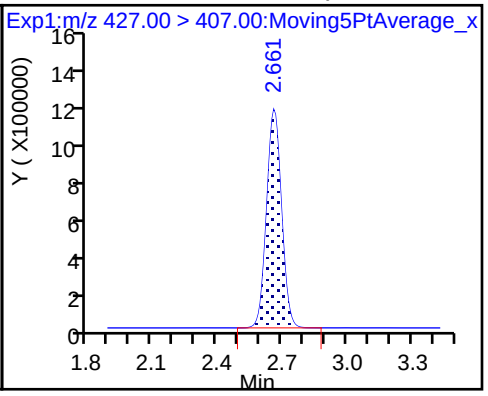
65 Adona



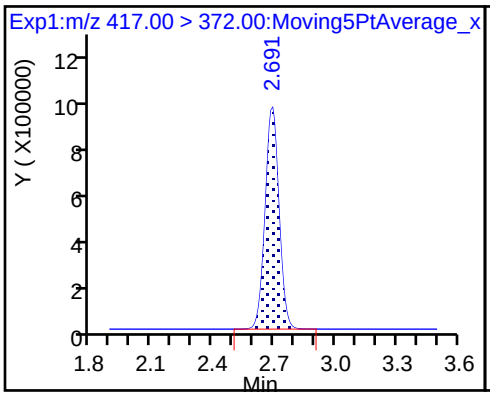
D 12 M2-6:2FTS



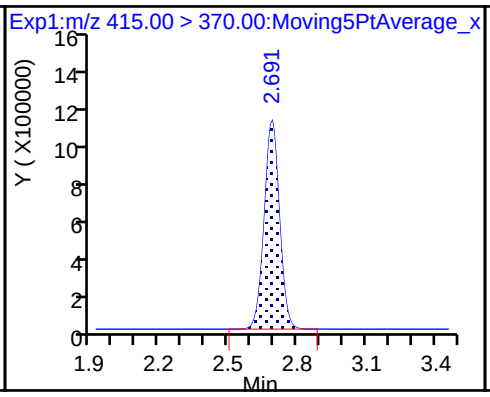
13 Sodium 1H,1H,2H,2H-perfluorooctane



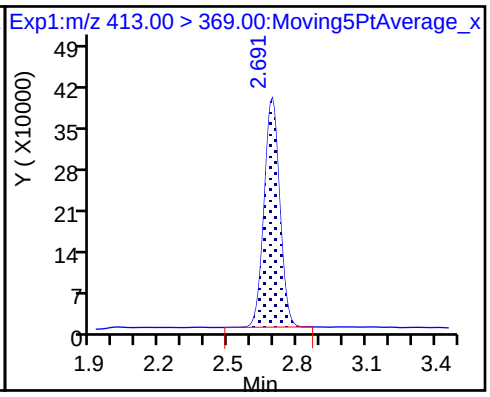
D 14 13C4 PFOA



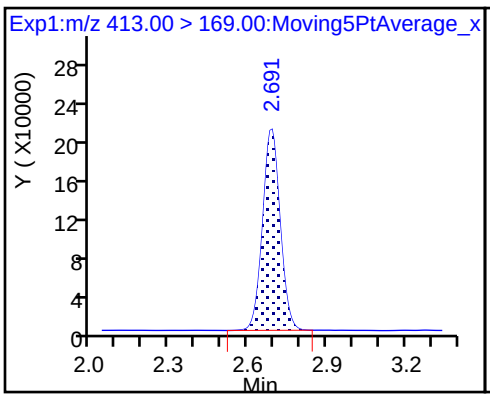
* 62 13C2-PFOA



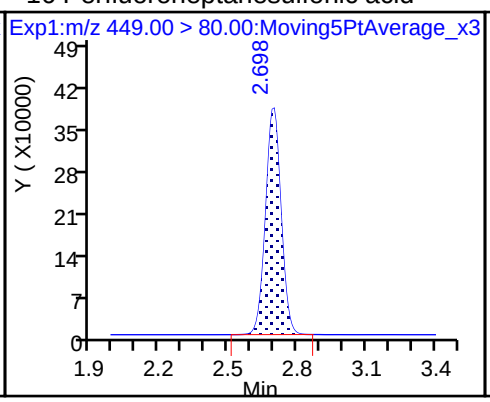
15 Perfluorooctanoic acid



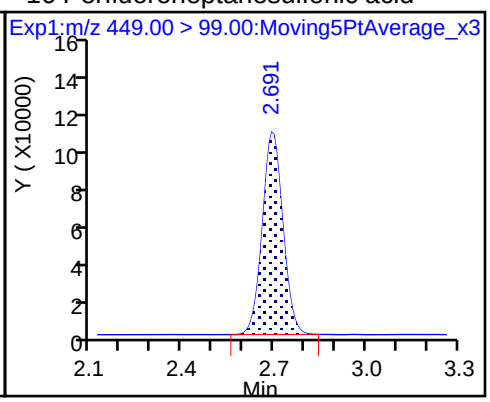
15 Perfluorooctanoic acid



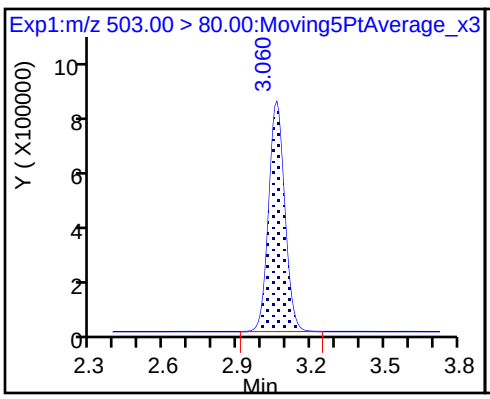
16 Perfluoroheptanesulfonic acid



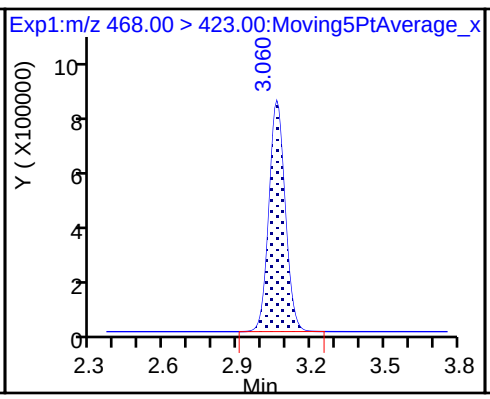
16 Perfluoroheptanesulfonic acid



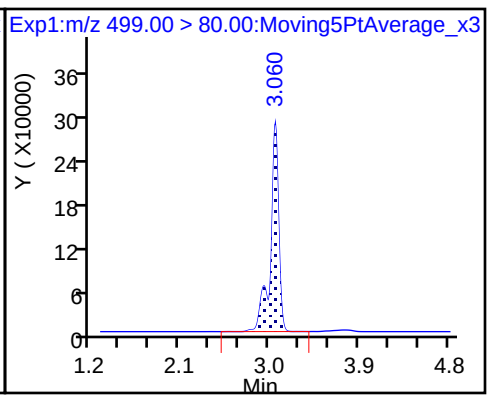
D 18 13C4 PFOS



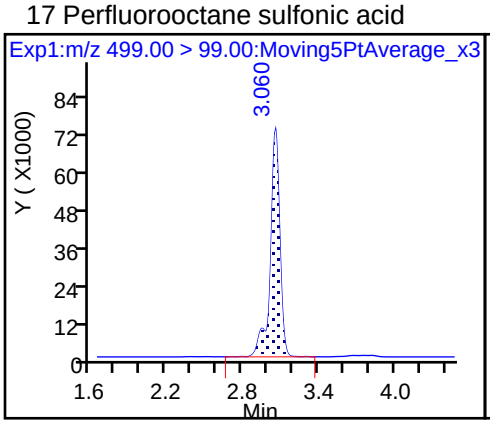
D 19 13C5 PFNA



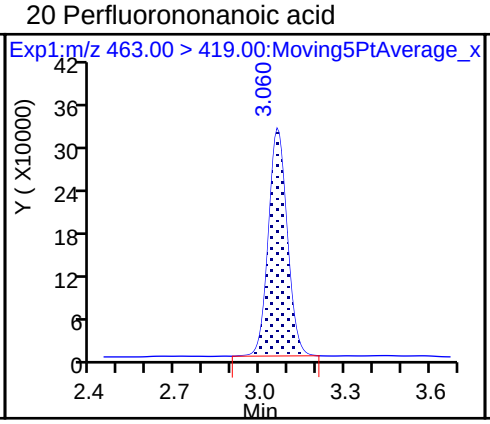
17 Perfluorooctane sulfonic acid



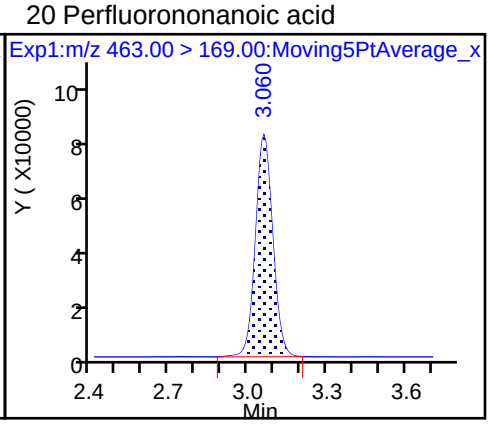
17 Perfluorooctane sulfonic acid



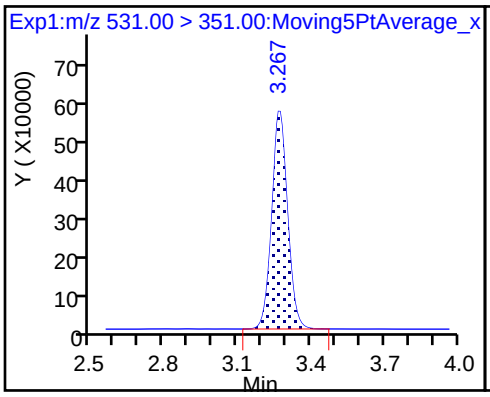
20 Perfluorononanoic acid



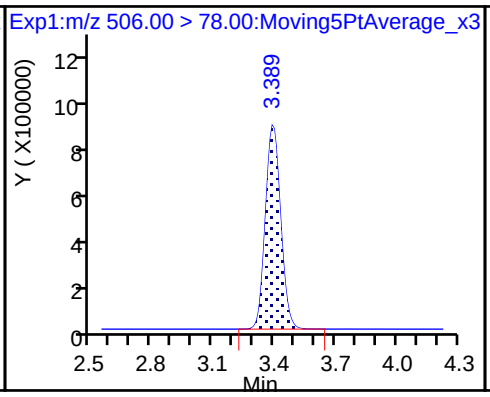
20 Perfluorononanoic acid



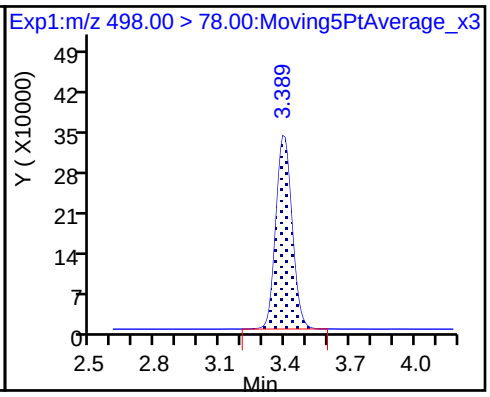
69 9-Chlorohexadecafluoro-3-oxanonane



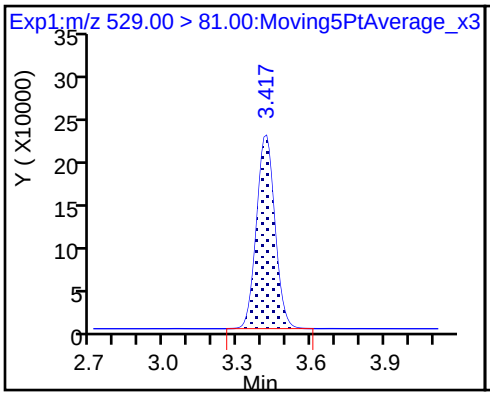
D 21 13C8 FOSA



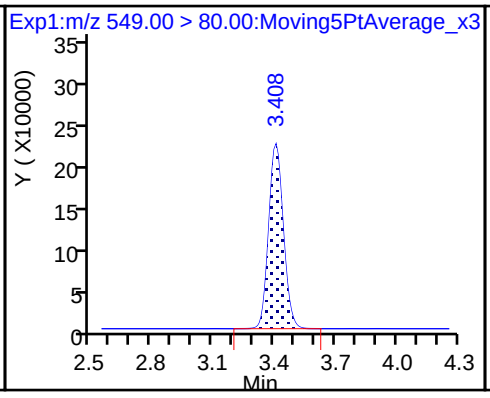
22 Perfluorooctane Sulfonamide



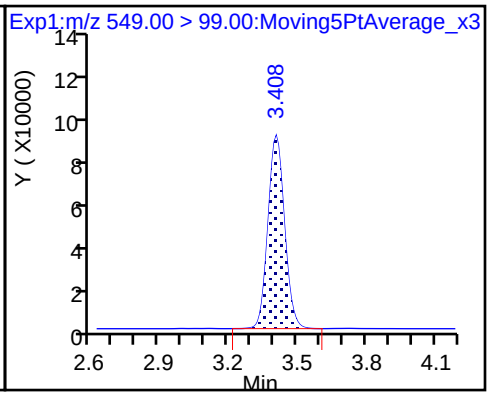
D 26 M2-8:2FTS



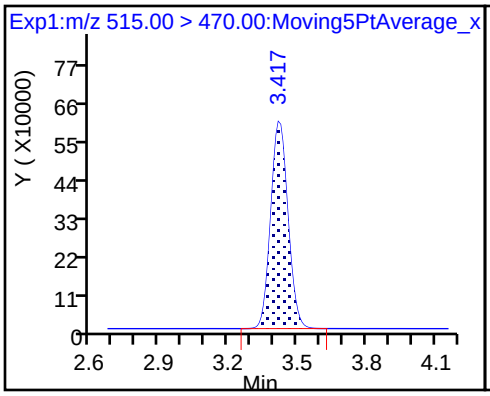
68 Perfluorononanesulfonic acid



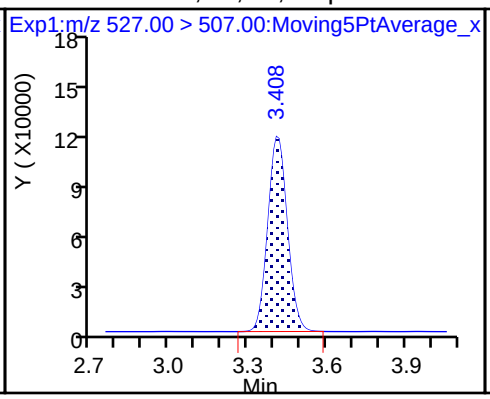
68 Perfluorononanesulfonic acid



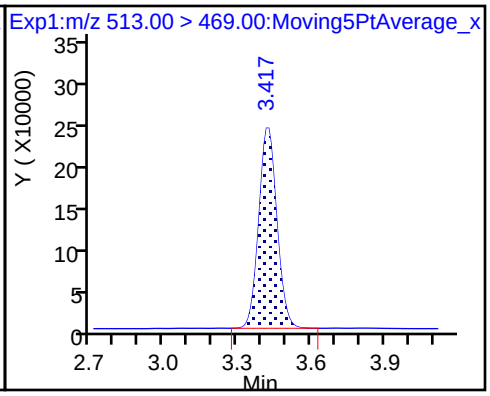
D 23 13C2 PFDA



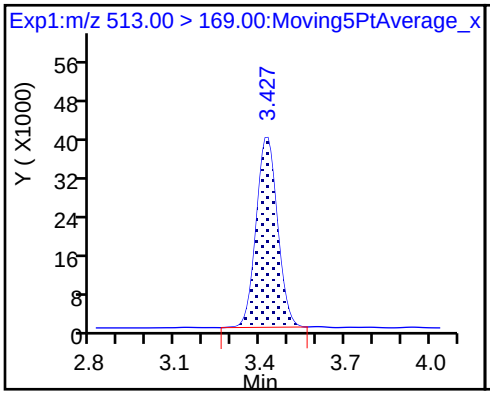
25 Sodium 1H,1H,2H,2H-perfluorodecane



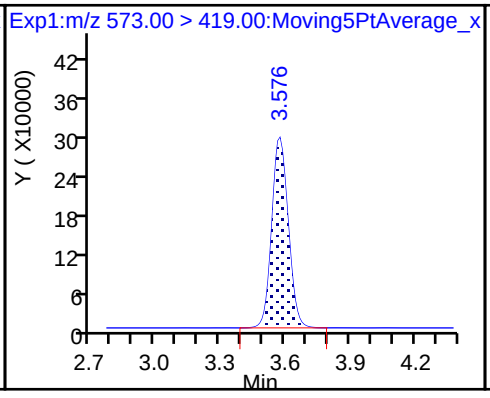
24 Perfluorodecanoic acid



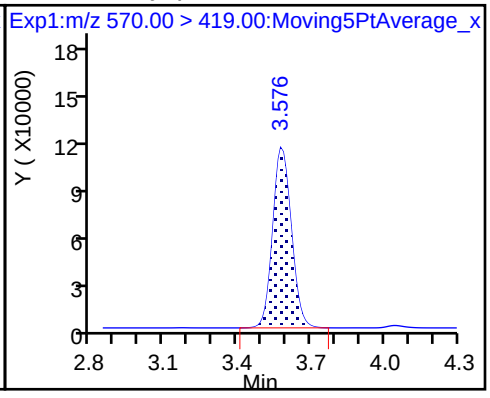
24 Perfluorodecanoic acid



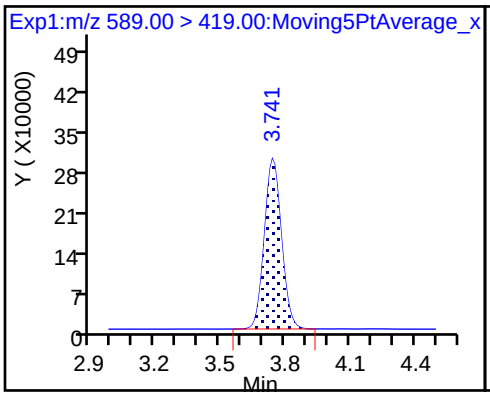
D 27 d3-NMeFOSAA



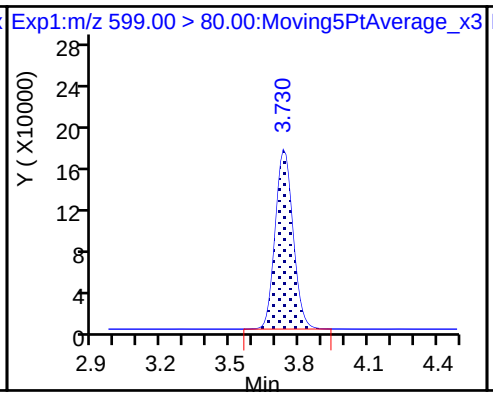
28 N-methyl perfluorooctane sulfonami



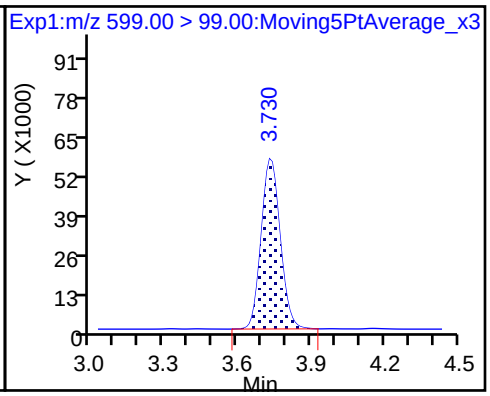
D 32 d5-NEtFOSAA



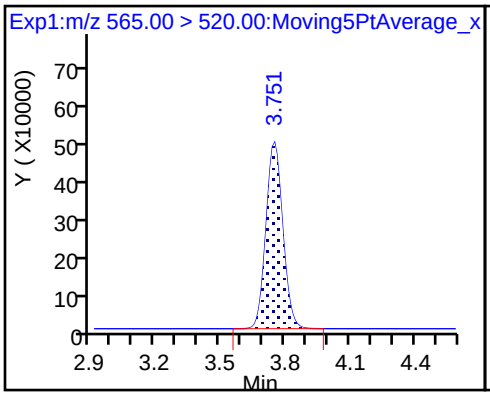
29 Perfluorodecane Sulfonic acid



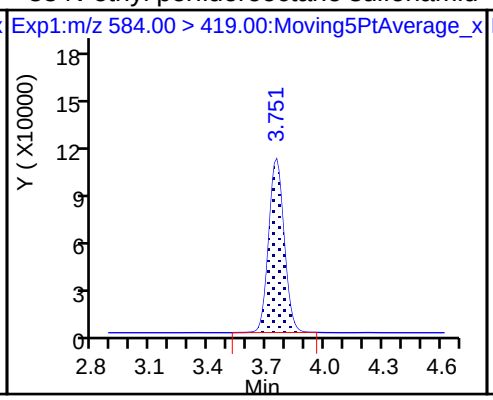
29 Perfluorodecane Sulfonic acid



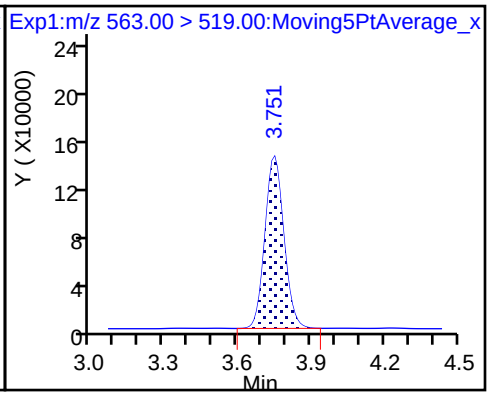
D 30 13C2 PFUnA



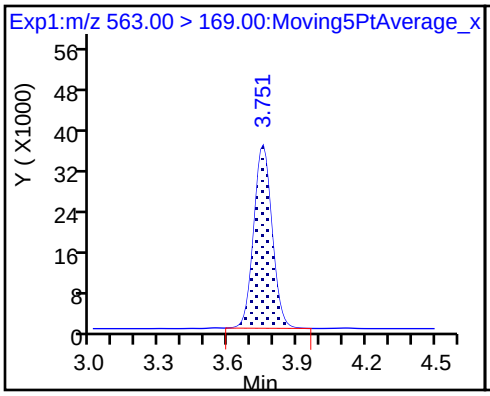
33 N-ethyl perfluorooctane sulfonamid



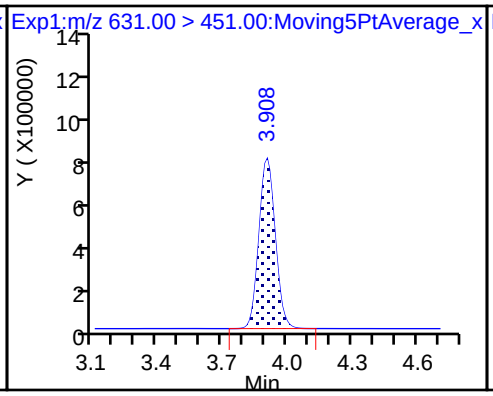
31 Perfluoroundecanoic acid



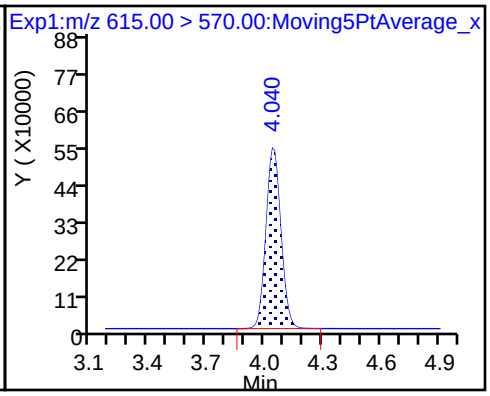
31 Perfluoroundecanoic acid



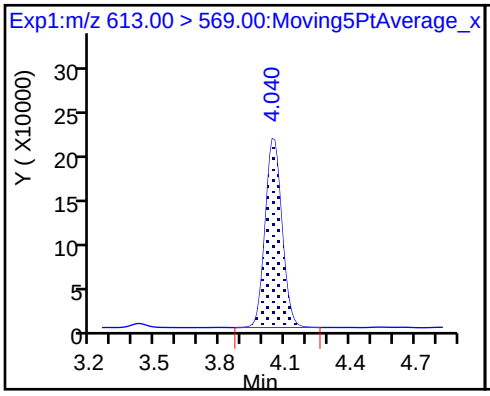
66 11-Chloroeicosafluoro-3-oxaundecan



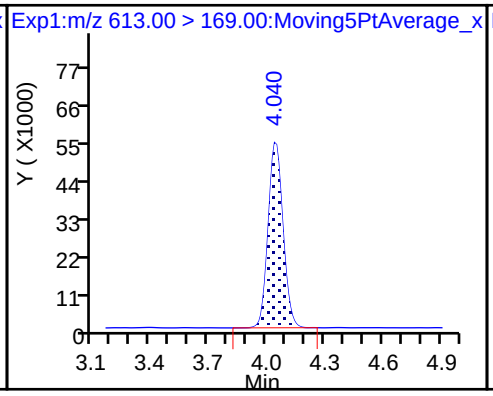
D 36 13C2 PFDoA



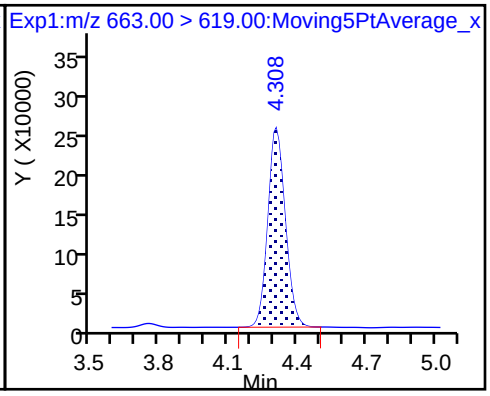
37 Perfluorododecanoic acid



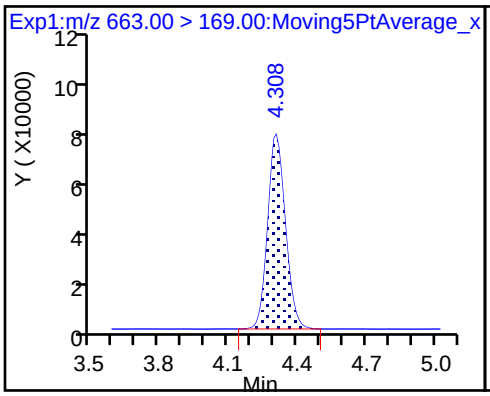
37 Perfluorododecanoic acid



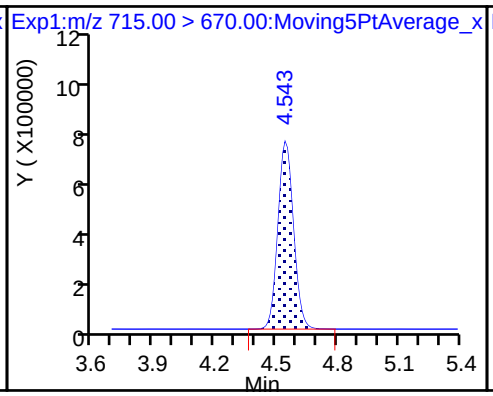
41 Perfluorotridecanoic acid



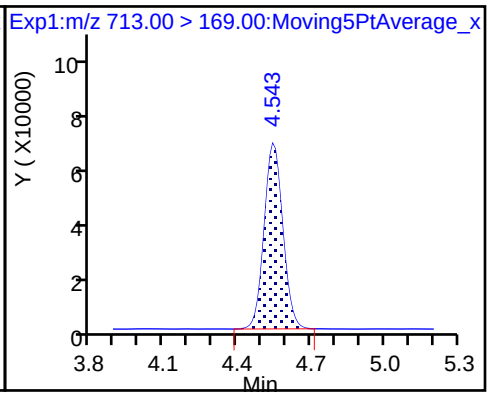
41 Perfluorotridecanoic acid



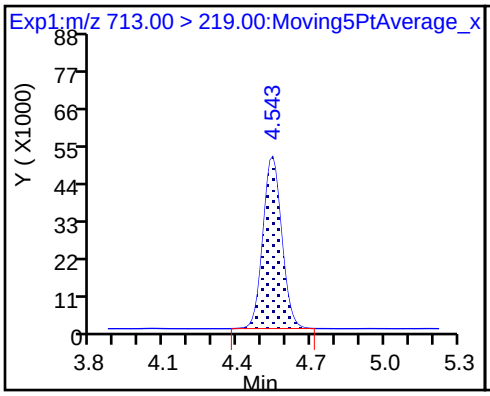
D 43 13C2-PFTeDA



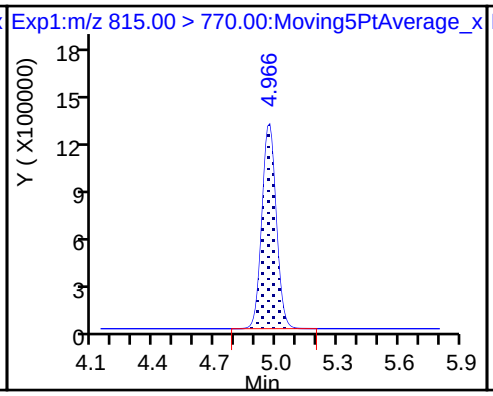
42 Perfluorotetradecanoic acid



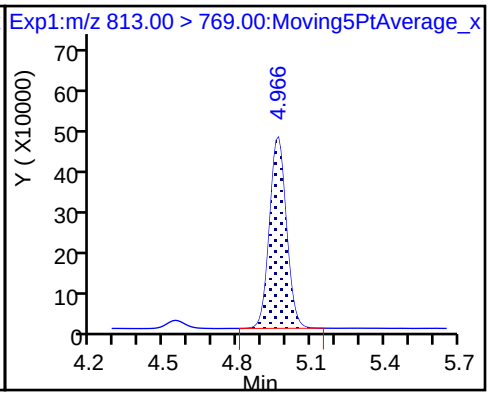
42 Perfluorotetradecanoic acid



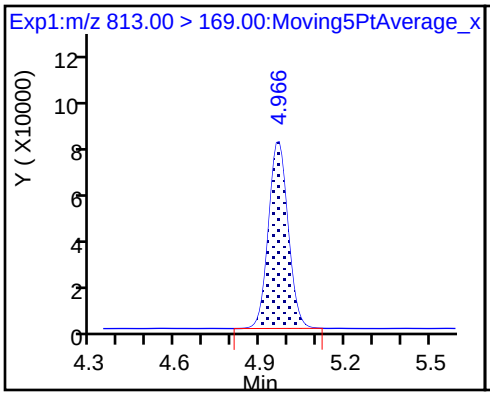
D 44 13C2-PFHxDA



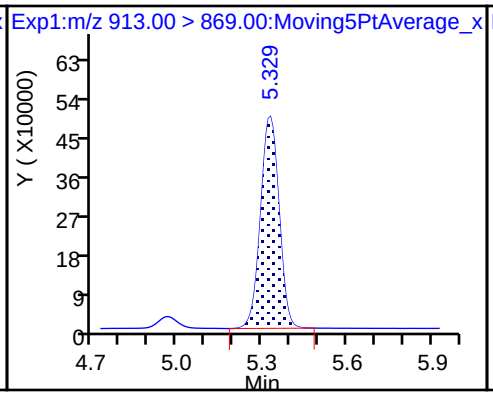
45 Perfluorohexadecanoic acid



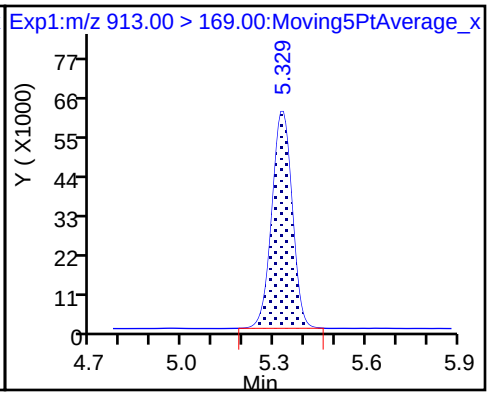
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-215106/2-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_009.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 19:07

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	37.19		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	37.65		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	40.24		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	37.78		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	35.70		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	37.26		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	37.88		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	33.34		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	35.70		2.00	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	35.23		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.34		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	32.21		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.68		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	36.95		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	32.86		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	33.01		2.00	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	36.09		2.00	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	39.47		20.0	3.10
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	37.88		20.0	1.90
27619-97-2	6:2FTS	41.48		20.0	2.00
39108-34-4	8:2FTS	36.92		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-215106/2-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_009.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 19:07

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99		25-150
STL01893	13C5 PFPeA	97		25-150
STL00993	13C2 PFHxA	93		25-150
STL01892	13C4-PFHpA	94		25-150
STL00990	13C4 PFOA	96		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	85		25-150
STL00997	13C2 PFUnA	80		25-150
STL00998	13C2 PFDoA	82		25-150
STL02116	13C2-PFTeDA	79		25-150
STL02337	13C3-PFBS	100		25-150
STL00994	18O2 PFHxS	103		25-150
STL00991	13C4 PFOS	95		25-150
STL01056	13C8 FOSA	92		25-150
STL02118	d3-NMeFOSAA	77		25-150
STL02117	d5-NEtFOSAA	70		25-150
STL02279	M2-6:2FTS	115		25-150
STL02280	M2-8:2FTS	105		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_009.d
Lims ID: LCS 320-215106/2-A
Client ID:
Sample Type: LCS
Inject. Date: 28-Mar-2018 19:07:26 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-215106/2-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:49:47 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:26:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.440	1.441	-0.001	0.528	6449593	2.49		99.5	90794	
2 Perfluorobutyric acid										
212.90 > 169.00	1.440	1.446	-0.006	1.000	2259948	0.9297		93.0	869	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.000	1766015	0.9414		94.1	703	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.718	-0.001	0.630	4159661	2.42		96.7	142944	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.753	1.753	0.0	1.000	2444581	0.8053		91.1	1731	
298.90 > 99.00	1.753	1.753	0.0	1.000	997038		2.45(1.25-3.74)		1582	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.754	-0.001	0.643	90833	2.31		99.5	651	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.976	1.976	0.0	1.000	551003	0.8731		93.5	35391	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.019	2.008	0.011	1.000	1827542	1.01		101	2741	
313.00 > 119.00	2.019	2.008	0.011	1.000	165999		11.01(5.03-15.10)		2668	
D 7 13C2 PFHxA										
315.00 > 270.00	2.019	2.019	0.0	0.740	4442612	2.34		93.4	120002	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.354	2.353	0.001	1.000	1730295	0.9444		94.4	1227	
363.00 > 169.00	2.354	2.353	0.001	1.000	705753		2.45(1.13-3.40)		1601	
D 9 13C4-PFHpA										
367.00 > 322.00	2.354	2.354	0.0	0.863	4427683	2.36		94.4	86448	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.367	2.367	0.0	0.995	2160112	0.8170		89.8	9854	
399.00 > 99.00	2.367	2.367	0.0	0.995	693670		3.11(1.50-4.49)		4453	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.379	2.368	0.011	0.873	5617526	2.43		103	100944	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.703	2.695	0.008	1.000	807588	1.04		109	9948	
D 12 M2-6:2FTS										
429.00 > 81.00	2.703	2.705	-0.002	0.991	1060714	2.73		115	35394	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.734	2.726	0.008	1.000	1896238	0.9239		97.0	50473	
449.00 > 99.00	2.734	2.726	0.008	1.000	516405		3.67(1.94-5.82)		12447	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.727	2.726	0.001	1.000	1857095	0.8925		89.2	694	
413.00 > 169.00	2.727	2.726	0.001	1.000	983323		1.89(0.84-2.52)		3945	
* 62 13C2-PFOA										M
415.00 > 370.00	2.727	2.726	0.001		5120545	2.50			86416	M
D 14 13C4 PFOA										
417.00 > 372.00	2.727	2.728	-0.001	1.000	4604825	2.40		95.9	77995	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.104	3.095	0.009	1.000	1466060	0.8216		88.5	3901	
499.00 > 99.00	3.104	3.095	0.009	1.000	350925		4.18(2.31-6.93)		4058	
20 Perfluorononanoic acid										
463.00 > 419.00	3.112	3.103	0.009	1.003	1426674	0.9315		93.1	1335	
463.00 > 169.00	3.104	3.103	0.001	1.000	358543		3.98(1.90-5.69)		10403	
D 19 13C5 PFNA										
468.00 > 423.00	3.104	3.112	-0.008	1.138	3838648	2.27		90.7	81763	
D 18 13C4 PFOS										
503.00 > 80.00	3.104	3.112	-0.008	1.138	3828632	2.27		95.1	65244	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.417	3.417	0.0	1.000	1858981	0.9022		90.2	31426	
D 21 13C8 FOSA										
506.00 > 78.00	3.417	3.418	-0.001	1.253	5225298	2.30		92.0	60606	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.463	3.454	0.009	1.000	650799	0.9231		96.4	8920	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.472	3.463	0.009	1.000	1180588	0.9470		94.7	6427	
513.00 > 169.00	3.472	3.463	0.009	1.000	223685		5.28(2.36-7.09)		4870	
D 26 M2-8:2FTS										
529.00 > 81.00	3.463	3.464	-0.001	1.270	1323034	2.52		105	36723	
D 23 13C2 PFDA										
515.00 > 470.00	3.472	3.473	-0.001	1.273	3154154	2.13		85.0	46090	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.632	3.623	0.009	1.003	597194	0.9867		98.7	5356	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.623	3.633	-0.010	1.329	1511958	1.94		77.4	51620	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.782	3.781	0.001	1.000	899037	0.8253		85.6	36589	
599.00 > 99.00	3.782	3.781	0.001	1.000	305422		2.94(1.39-4.16)		8960	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.802	3.792	0.010	1.003	551526	0.9470		94.7	9165	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.802	3.802	0.0	1.000	765467	0.8336		83.4	3487	
563.00 > 169.00	3.802	3.802	0.0	1.000	195899		3.91(2.12-6.36)		7526	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.792	3.804	-0.012	1.391	1558547	1.75		70.1	3723	
D 30 13C2 PFUnA										
565.00 > 520.00	3.802	3.804	-0.002	1.395	2662819	2.01		80.2	53725	
35 MeFOSA										
512.00 > 169.00	3.642	3.875	-0.233		4584	NC			137	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.102	4.092	0.010	1.000	1146746	0.8925		89.3	821	
613.00 > 169.00	4.102	4.092	0.010	1.000	285342		4.02(2.13-6.40)		4423	
D 36 13C2 PFDoA										
615.00 > 570.00	4.102	4.105	-0.003	1.505	3069701	2.04		81.5	23018	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.363	4.356	0.007	1.000	1190248	0.8806		88.1	477	
663.00 > 169.00	4.363	4.356	0.007	1.000	377938		3.15(1.25-3.76)		6264	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.598	4.601	-0.003	1.000	337354	0.9335		93.3	5652	
713.00 > 219.00	4.598	4.601	-0.003	1.000	250093		1.35(0.71-2.13)		5640	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.598	4.613	-0.015	1.686	3646175	1.98		79.3	24371	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.027	5.012	0.015	1.000	2033102	0.9694		96.9	456	
813.00 > 169.00	5.027	5.012	0.015	1.000	328903		6.18(2.86-8.58)		2401	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.027	5.040	-0.013	1.844	5628162	1.87		74.6	16137	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.396	5.387	0.009	1.000	2223607	1.07		107	434	
913.00 > 169.00	5.396	5.387	0.009	1.000	279440		7.96(3.83-11.48)		2821	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 29-Mar-2018 07:49:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_009.d

Injection Date: 28-Mar-2018 19:07:26 Instrument ID: A8_N

Lims ID: LCS 320-215106/2-A

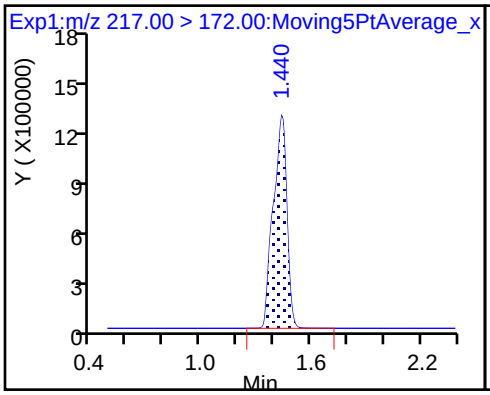
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 6

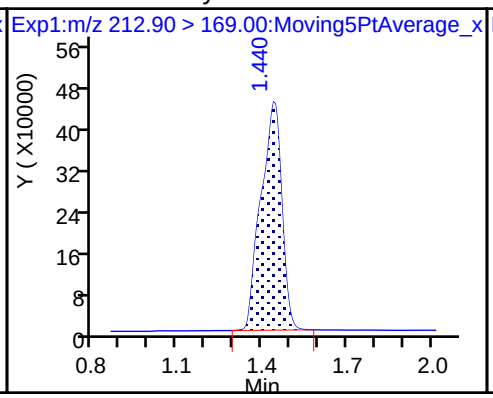
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

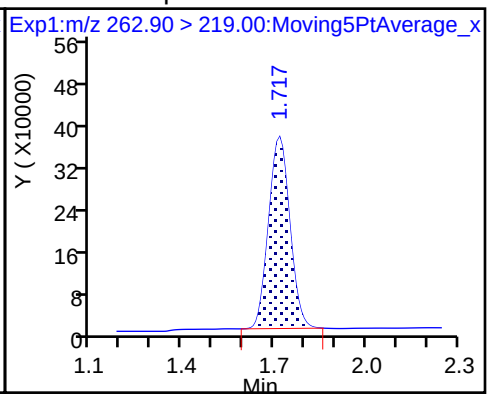
D 1 13C4 PFBA



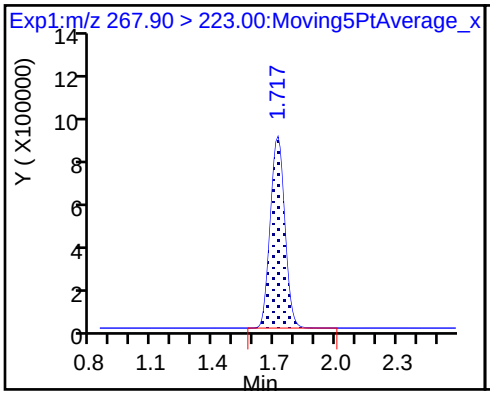
2 Perfluorobutyric acid



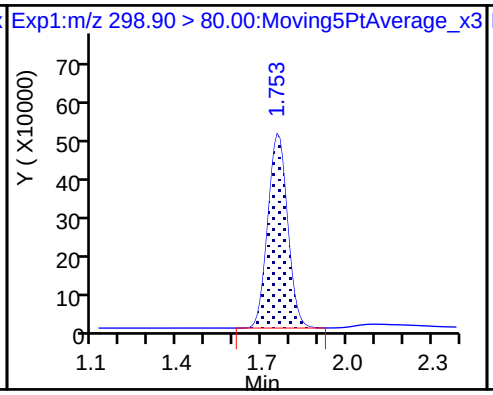
4 Perfluoropentanoic acid



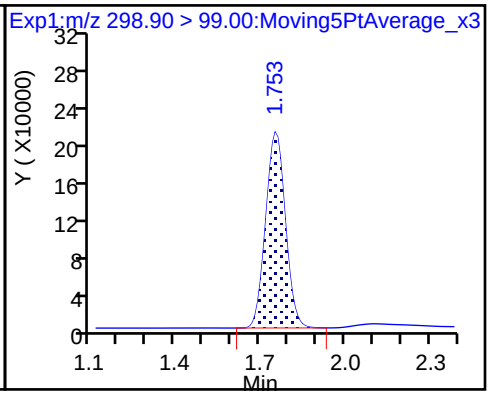
D 3 13C5-PFPeA



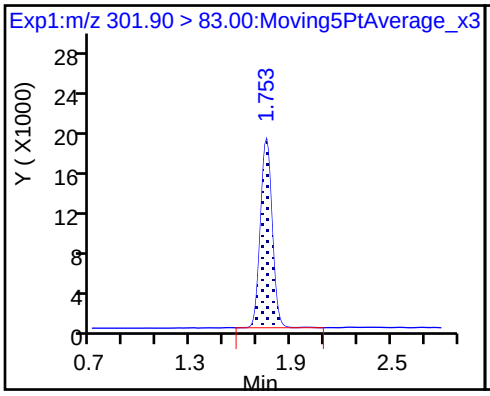
5 Perfluorobutanesulfonic acid



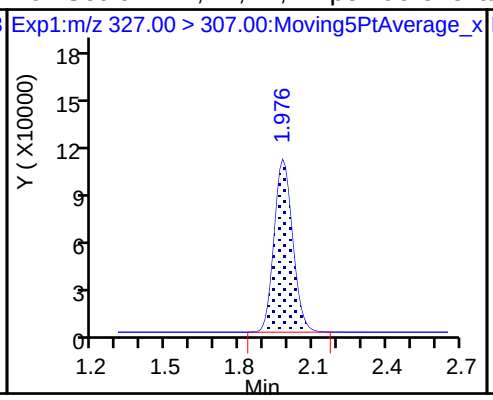
5 Perfluorobutanesulfonic acid



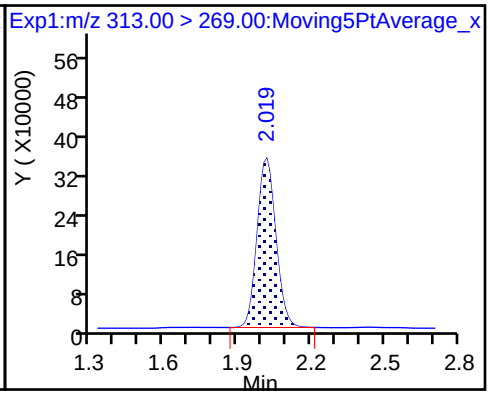
D 47 13C3-PFBS



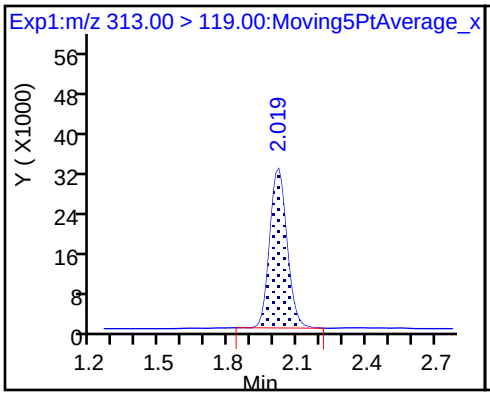
61 Sodium 1H,1H,2H,2H-perfluorohexane



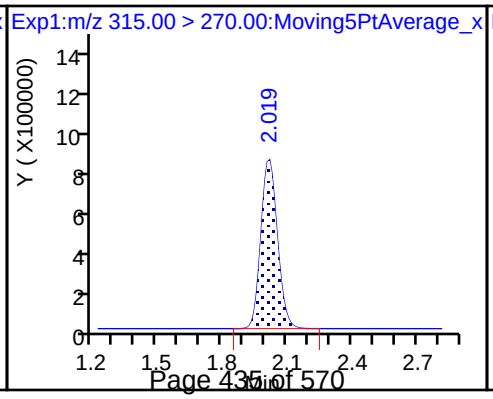
6 Perfluorohexanoic acid



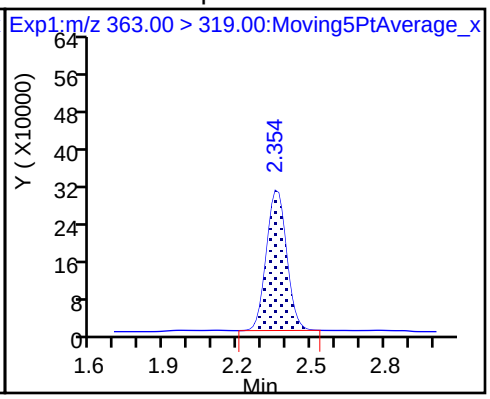
6 Perfluorohexanoic acid



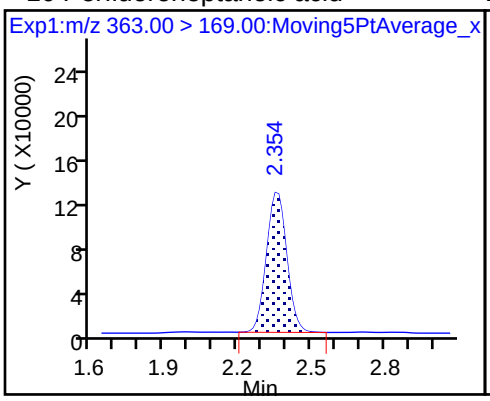
D 7 13C2 PFHxA



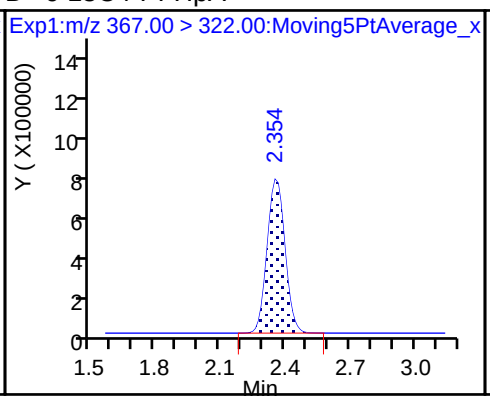
10 Perfluoroheptanoic acid



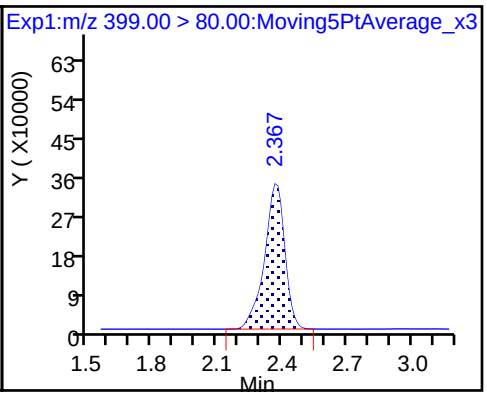
10 Perfluoroheptanoic acid



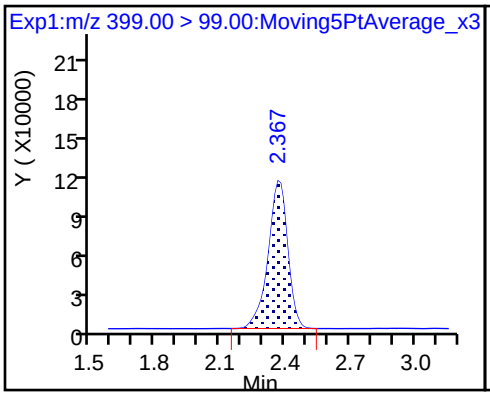
D 9 13C4-PFHpA



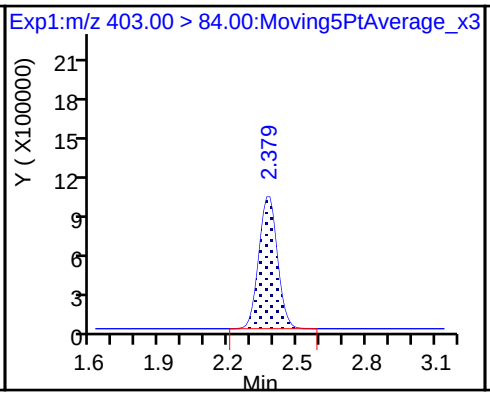
8 Perfluorohexanesulfonic acid



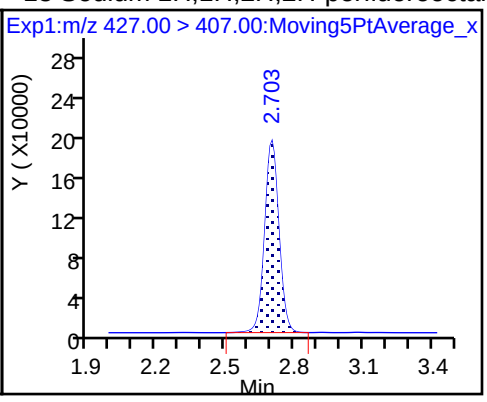
8 Perfluorohexanesulfonic acid



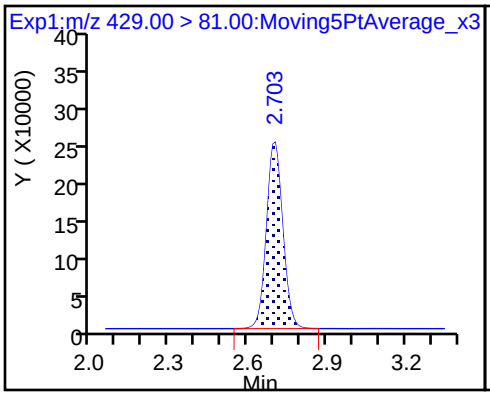
D 11 18O2 PFHxS



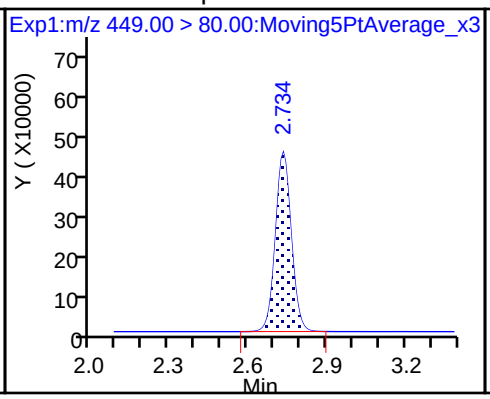
13 Sodium 1H,1H,2H,2H-perfluorooctane



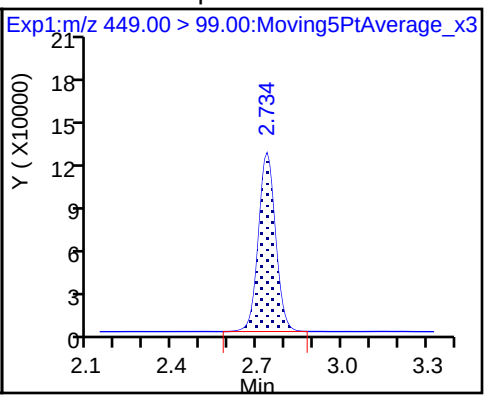
D 12 M2-6:2FTS



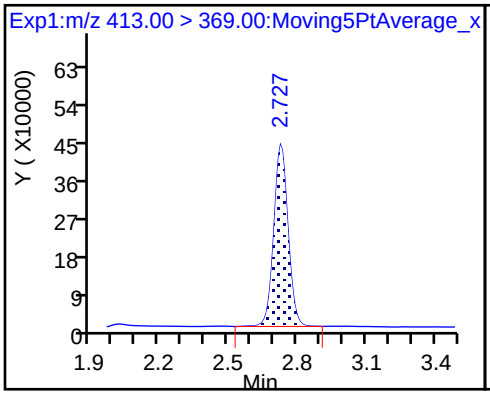
16 Perfluoroheptanesulfonic acid



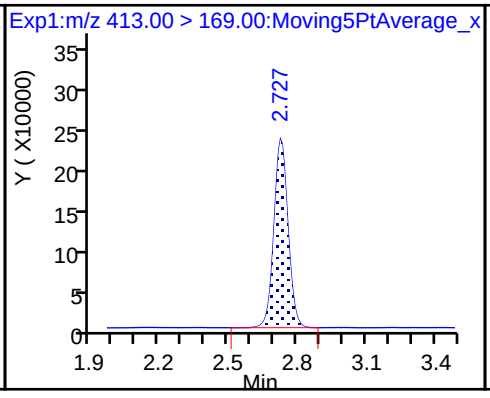
16 Perfluoroheptanesulfonic acid



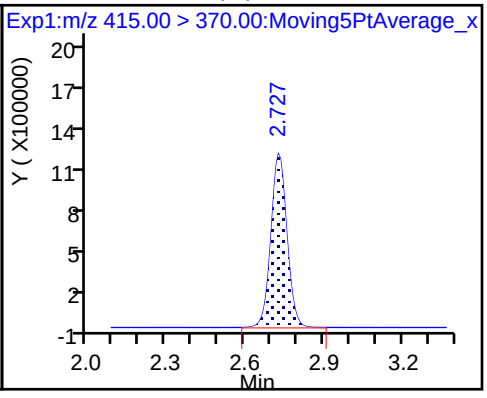
15 Perfluorooctanoic acid



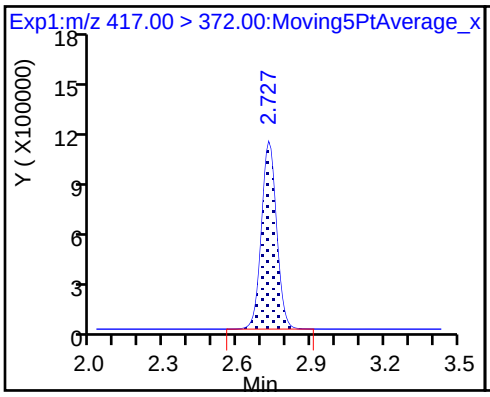
15 Perfluorooctanoic acid



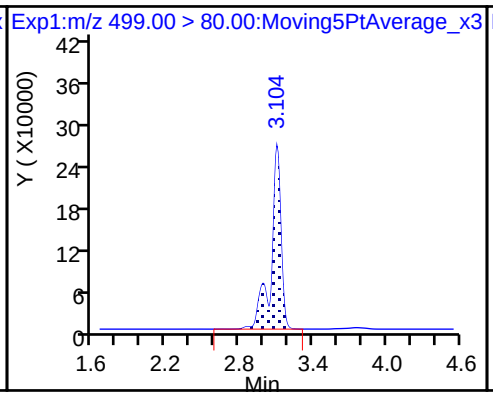
* 62 13C2-PFOA (M)



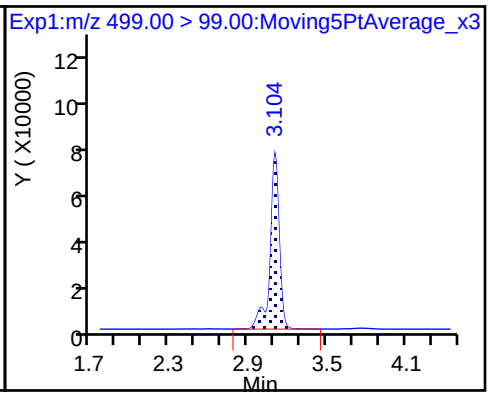
D 14 13C4 PFOA



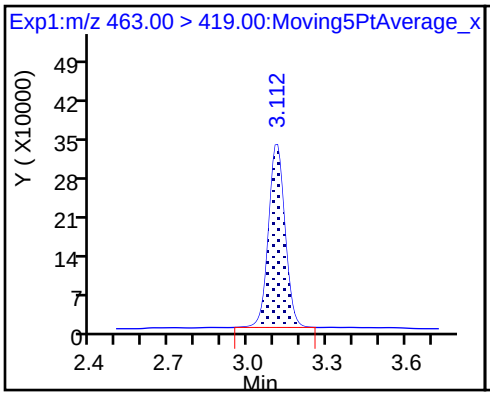
17 Perfluorooctane sulfonic acid



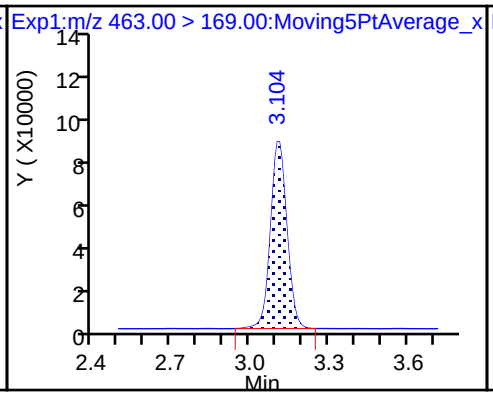
17 Perfluorooctane sulfonic acid



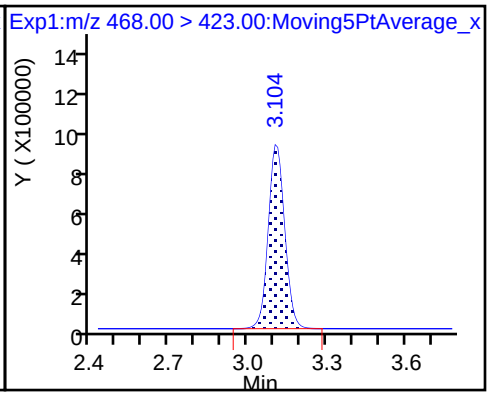
20 Perfluorononanoic acid



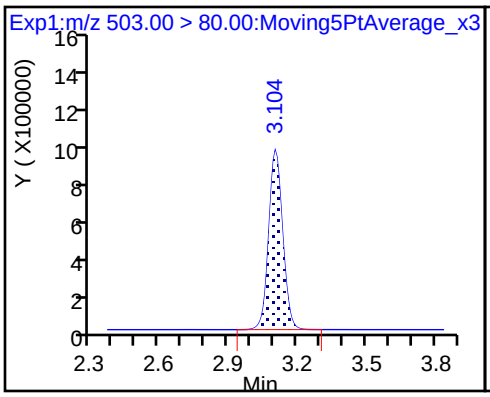
20 Perfluorononanoic acid



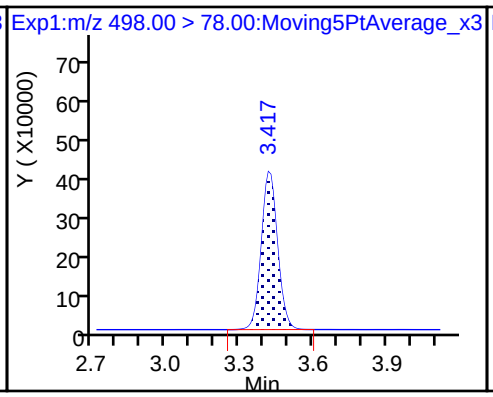
D 19 13C5 PFNA



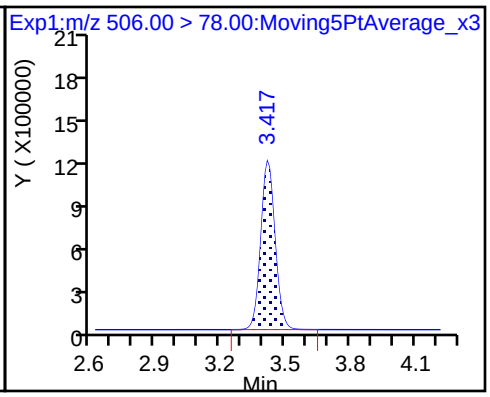
D 18 13C4 PFOS



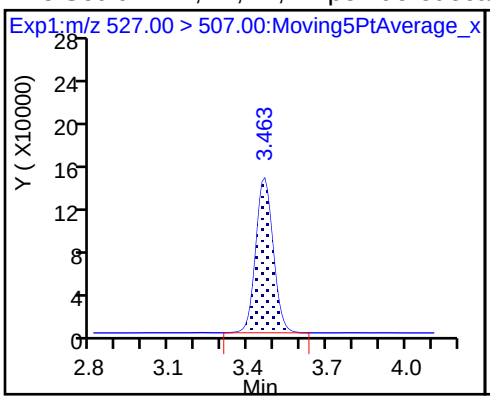
22 Perfluorooctane Sulfonamide



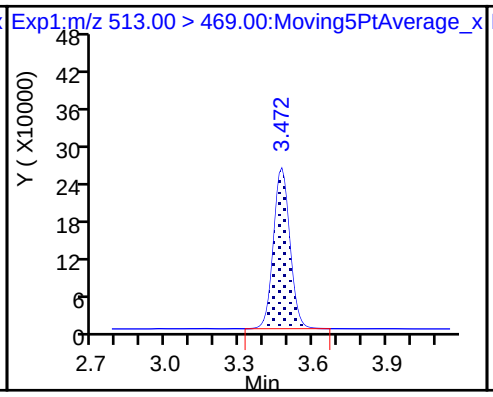
D 21 13C8 FOSA



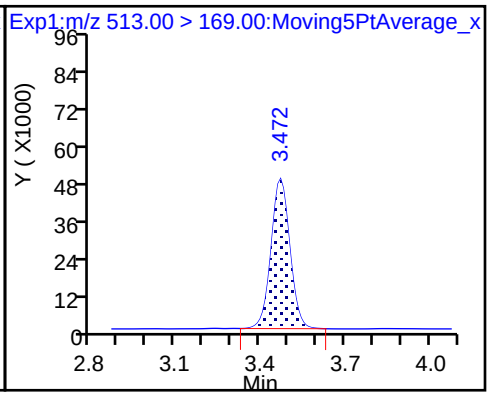
25 Sodium 1H,1H,2H,2H-perfluorodecane



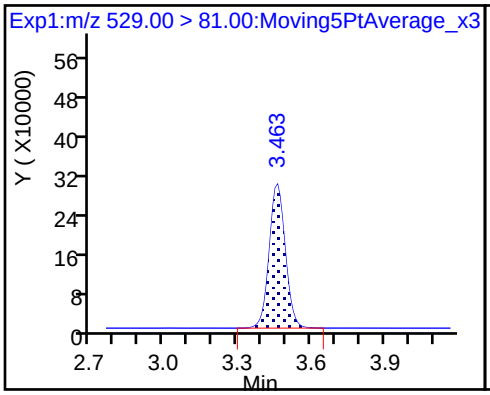
24 Perfluorodecanoic acid



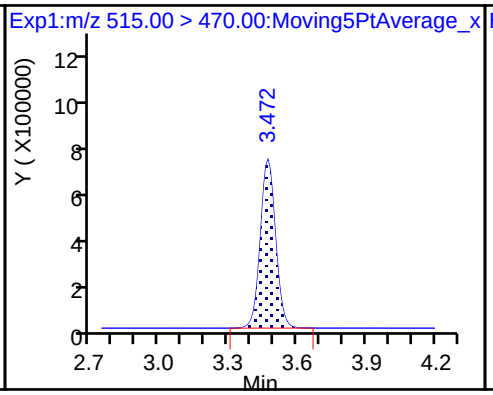
24 Perfluorodecanoic acid



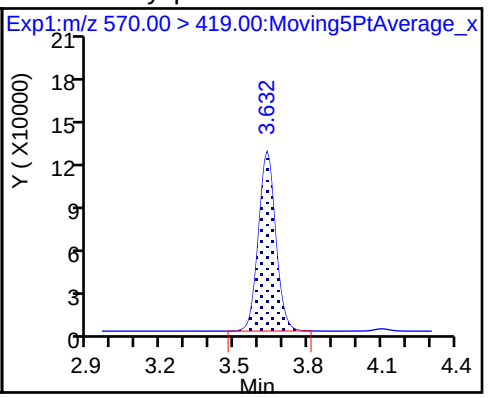
D 26 M2-8:2FTS



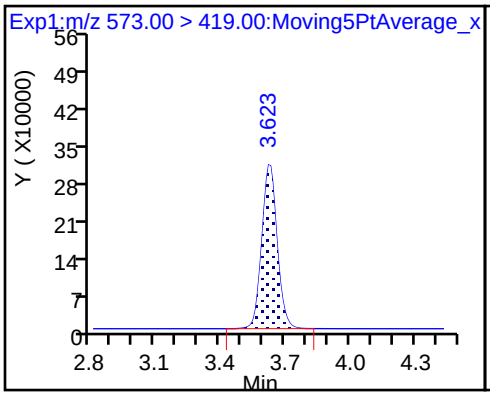
D 23 13C2 PFDA



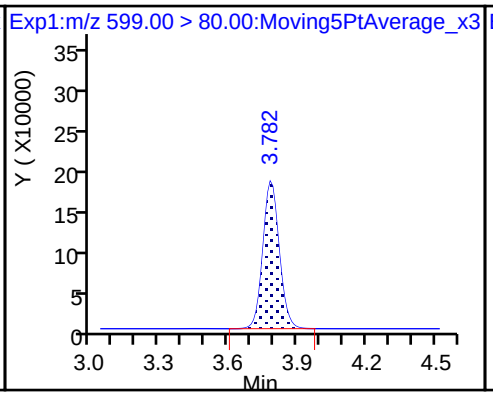
28 N-methyl perfluorooctane sulfonami



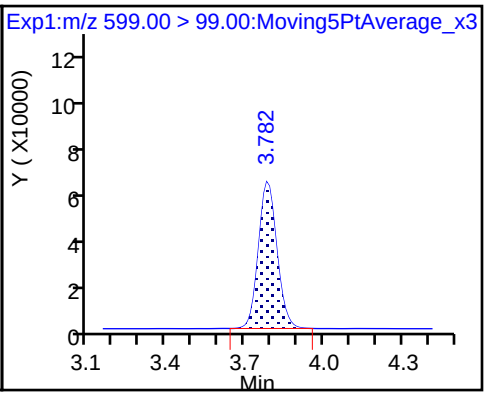
D 27 d3-NMeFOSAA



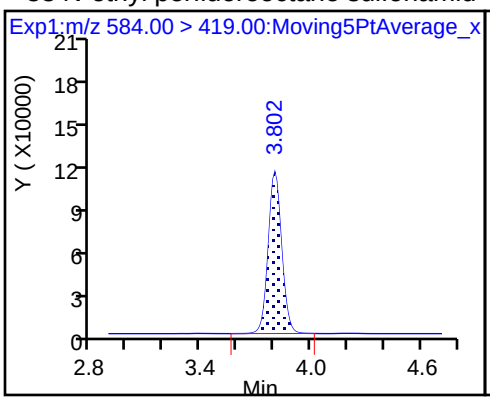
29 Perfluorodecane Sulfonic acid



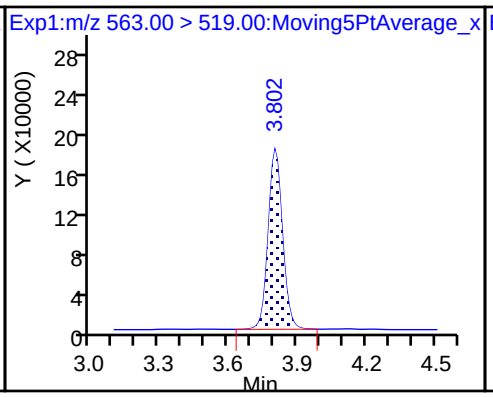
29 Perfluorodecane Sulfonic acid



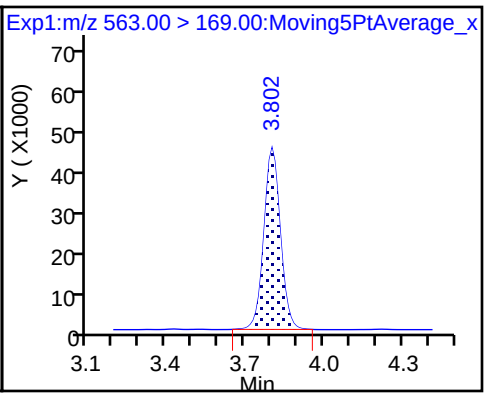
33 N-ethyl perfluorooctane sulfonamid



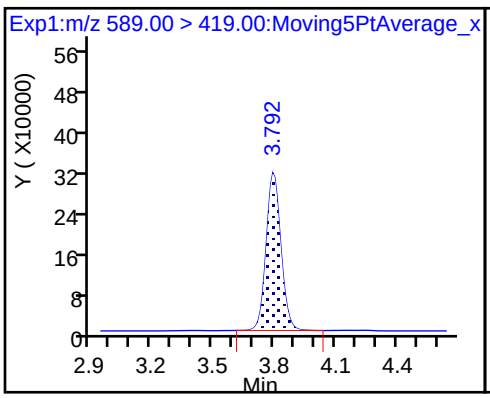
31 Perfluoroundecanoic acid



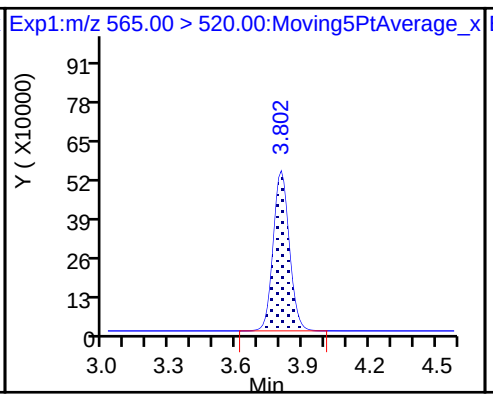
31 Perfluoroundecanoic acid



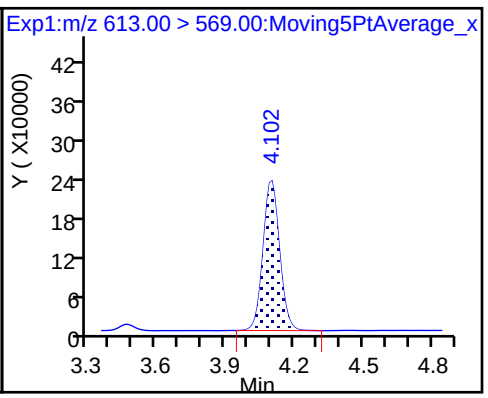
D 32 d5-NEtFOSAA



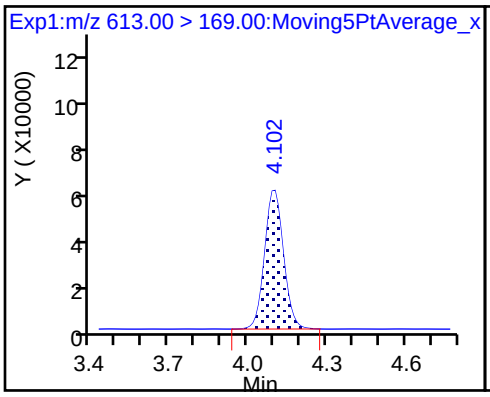
D 30 13C2 PFUnA



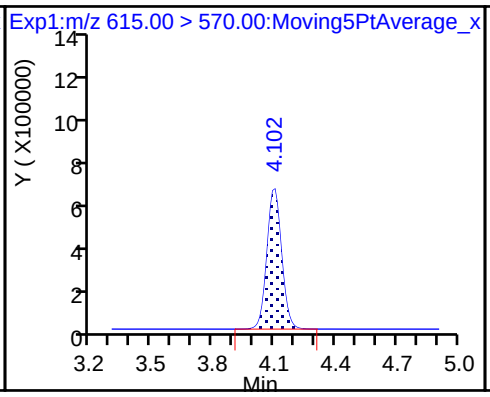
37 Perfluorododecanoic acid



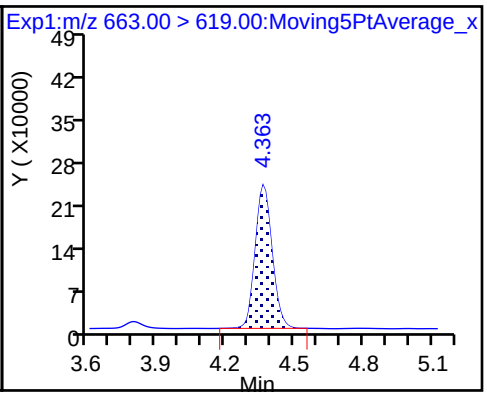
37 Perfluorododecanoic acid



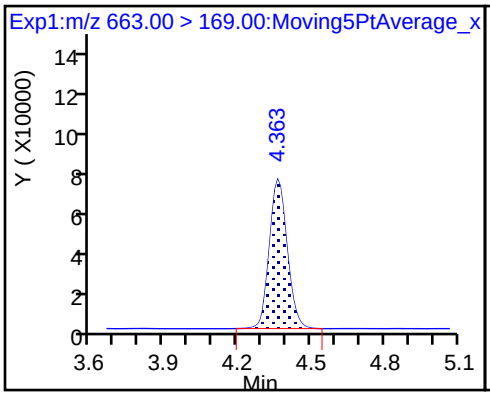
D 36 13C2 PFDoA



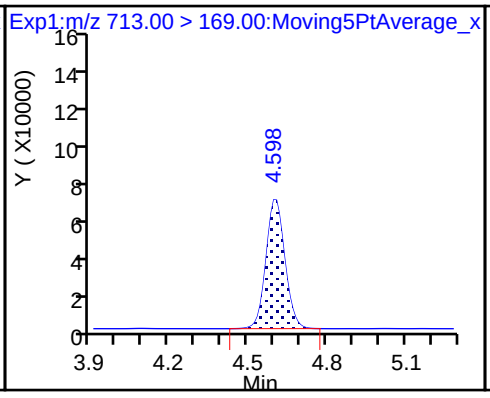
41 Perfluorotridecanoic acid



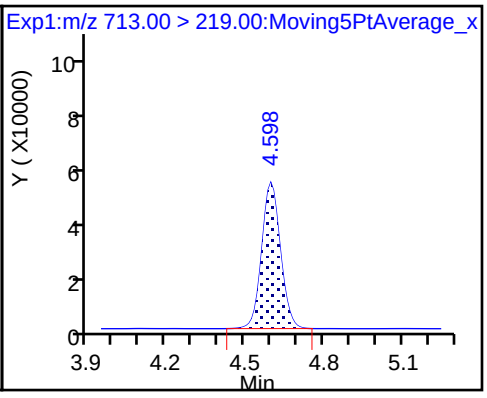
41 Perfluorotridecanoic acid



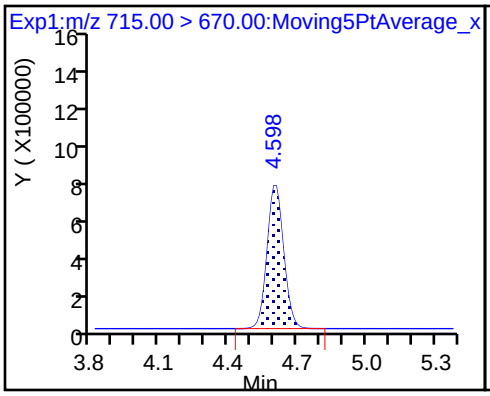
42 Perfluorotetradecanoic acid



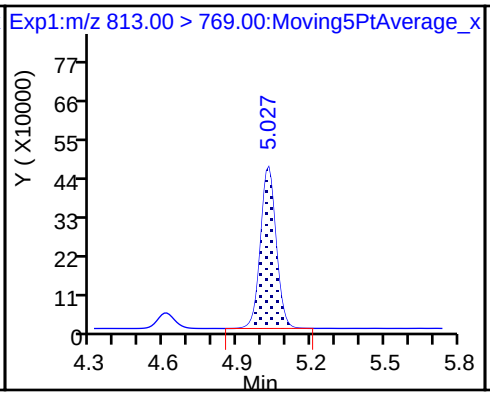
42 Perfluorotetradecanoic acid



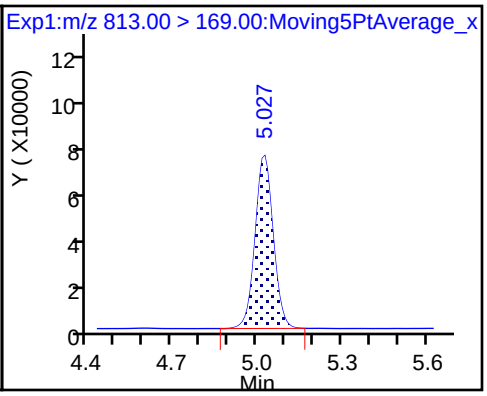
D 43 13C2-PFTeDA



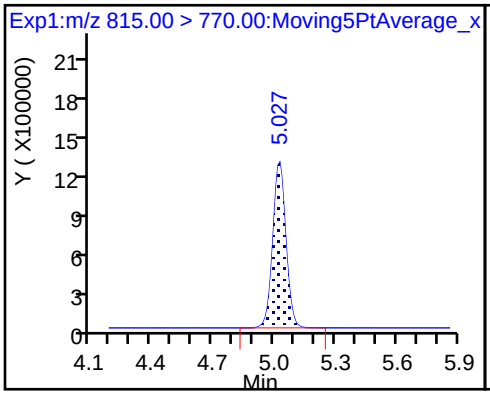
45 Perfluorohexadecanoic acid



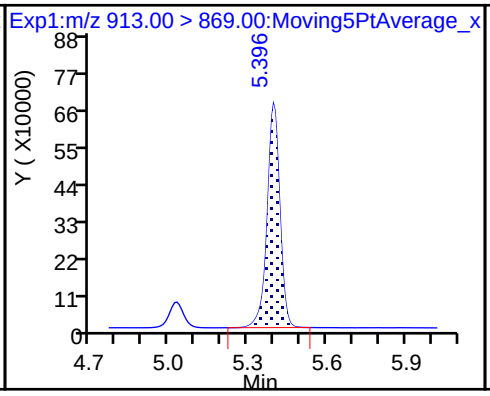
45 Perfluorohexadecanoic acid



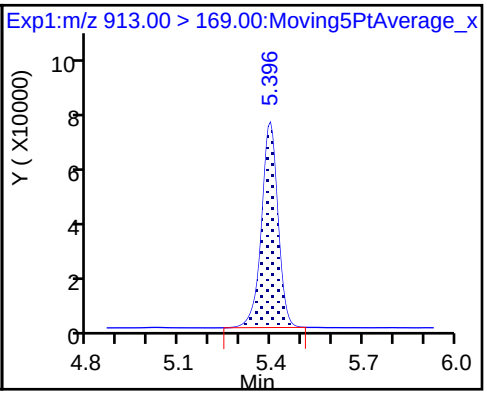
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

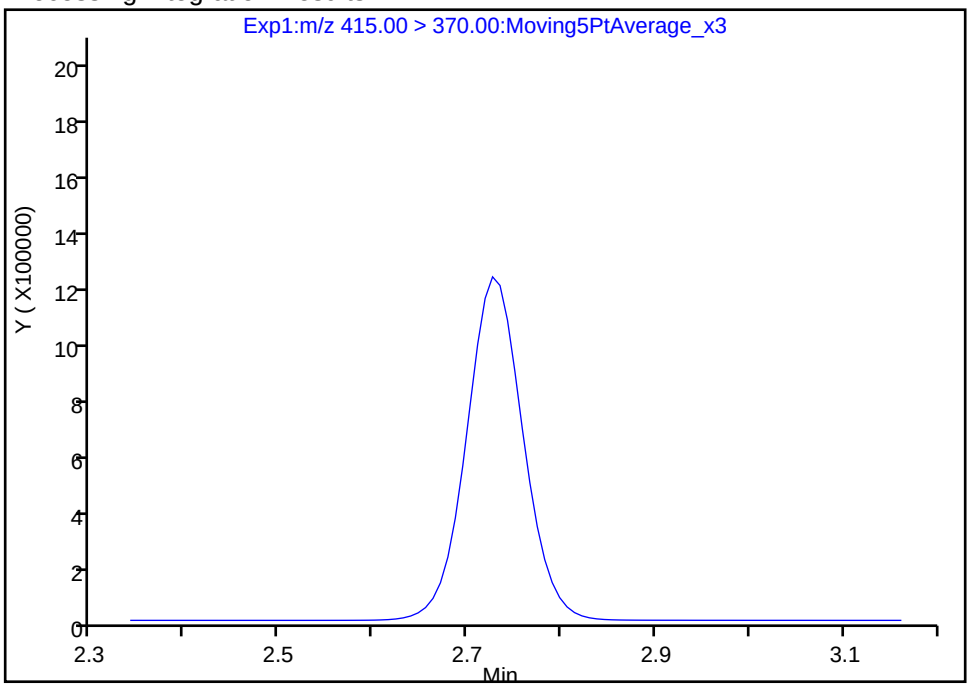
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_009.d
Injection Date: 28-Mar-2018 19:07:26 Instrument ID: A8_N
Lims ID: LCS 320-215106/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

* 62 13C2-PFOA, CAS: STL00623

Signal: 1

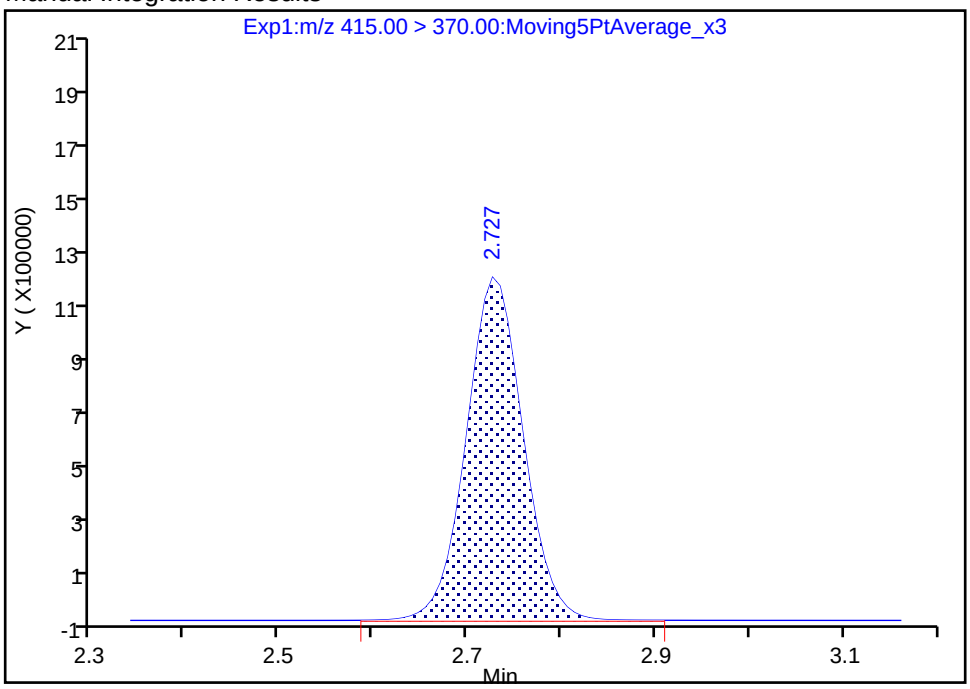
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 5120545
Amount: 2.500000
Amount Units: ng/ml



Reviewer: hannigana, 29-Mar-2018 07:38:35
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-215908/2-A

Matrix: Solid | Lab File ID: 2018.04.06LLA_008.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: SHAKE | Date Extracted: 04/02/2018 14:27

Sample wt/vol: 5.00(g) | Date Analyzed: 04/06/2018 14:23

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 216698 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2FTS	0.00175	J	0.0020	0.00015

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2FTS	68		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_008.d
Lims ID: LCS 320-215908/2-A
Client ID:
Sample Type: LCS
Inject. Date: 06-Apr-2018 14:23:44 ALS Bottle#: 2 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LCS 320-215908/2-A
Misc. Info.: Plate: 1 Rack: 5
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:26:22 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 07-Apr-2018 11:23:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.425	1.430	-0.005	1.000	1848735	1.02		102	583	
D 1 13C4 PFBA										
217.00 > 172.00	1.425	1.430	-0.005	1.000	4884857	1.77		70.8	22742	
D 3 13C5-PFPeA										
267.90 > 223.00	1.685	1.694	-0.009	0.560	3208707	1.79		71.4	45407	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.685	1.702	-0.017	1.000	1436246	0.9349		93.5	1120	
D 47 13C3-PFBS										
301.90 > 83.00	1.721	1.730	-0.009	1.000	72053	1.75		75.3	641	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.721	1.738	-0.017	1.000	2115108	0.8651		97.9	15520	
298.90 > 99.00	1.721	1.738	-0.017	1.000	870393		2.43(1.25-3.74)		6627	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.928	1.949	-0.021	1.000	378698	0.7082		75.8	18926	
D 7 13C2 PFHxA										
315.00 > 270.00	1.971	1.971	0.0	1.000	3550121	1.79		71.7	104555	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.960	1.981	-0.021	0.995	1364343	0.9389		93.9	2215	
313.00 > 119.00	1.971	1.981	-0.010	1.000	129661		10.52(5.03-15.10)		2100	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	1.982	2.003	-0.021	1.000	1994826	0.9040		96.4	57847	
349.00 > 99.00	1.982	2.003	-0.021	1.000	743063		2.68(1.36-4.07)		8298	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.061	2.082	-0.021	1.000	234465	NR		0.0	2504	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.294	2.306	-0.012	1.006	1534162	0.9125		91.3	1166	
363.00 > 169.00	2.294	2.306	-0.012	1.006	575732		2.66(1.13-3.40)		2410	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4-PFHpA										
367.00 > 322.00	2.281	2.308	-0.027	1.000	3868239	2.03		81.3	77230	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.294	2.319	-0.025	0.994	1742136	0.7831		86.1	17561	
399.00 > 99.00	2.294	2.319	-0.025	0.994	595401		2.93(1.50-4.49)		3018	
D 11 18O2 PFHxS										
403.00 > 84.00	2.308	2.321	-0.013	1.000	4710346	1.98		83.9	132457	
65 Adona										
377.00 > 251.00	2.334	2.345	-0.011	1.000	4026653	0.8873		88.7	70251	
377.00 > 85.00	2.334	2.345	-0.011	1.000	2436972		1.65(0.84-2.53)		17194	
D 12 M2-6:2FTS										
429.00 > 81.00	2.612	2.629	-0.017	1.000	713323	1.62		68.3	18625	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.620	2.636	-0.016	1.003	492088	0.8773		92.5	7821	
* 62 13C2-PFOA										
415.00 > 370.00	2.636	2.660	-0.024		4993216	2.50			96085	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.645	2.660	-0.015	1.000	1510313	0.9508		95.1	1152	
413.00 > 169.00	2.645	2.660	-0.015	1.000	781137		1.93(0.84-2.52)		3333	
D 14 13C4 PFOA										
417.00 > 372.00	2.645	2.660	-0.015	1.000	3348908	1.79		71.6	65515	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.645	2.667	-0.022	1.000	1483340	0.8741		91.8	43829	
449.00 > 99.00	2.645	2.667	-0.022	1.000	402003		3.69(1.94-5.82)		6461	
D 18 13C4 PFOS										
503.00 > 80.00	3.008	3.021	-0.013	1.000	3043311	1.85		77.2	72123	
D 19 13C5 PFNA										
468.00 > 423.00	3.008	3.028	-0.020	1.000	2891678	1.83		73.0	77757	
20 Perfluorononanoic acid										
463.00 > 419.00	3.008	3.030	-0.022	1.000	1175566	0.9877		98.8	3186	
463.00 > 169.00	3.008	3.030	-0.022	1.000	281921		4.17(1.90-5.69)		10731	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.001	3.030	-0.029	0.998	1422175	0.9775		105	27272	
499.00 > 99.00	3.008	3.030	-0.022	1.000	326541		4.36(2.31-6.93)		3244	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.213	3.238	-0.025	1.000	2330343	0.9787		105	3364	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.356	0.001	1.000	4161635	1.79		71.5	43271	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.368	-0.011	1.000	1609893	0.9791		97.9	45494	
D 26 M2-8:2FTS										
529.00 > 81.00	3.349	3.374	-0.025	1.000	889127	1.74		72.6	24921	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.349	3.378	-0.029	1.000	973826	0.9539		99.4	28728	
549.00 > 99.00	3.349	3.378	-0.029	1.000	372669		2.61(1.33-3.97)		5320	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.357	3.378	-0.021	1.003	475490	0.9496		99.1	11118	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	3.367	3.384	-0.017	1.000	2647117	1.98		79.2	40311	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.357	3.387	-0.030	0.997	1051463	1.00		100	4623	
513.00 > 169.00	3.357	3.387	-0.030	0.997	187503		5.61(2.36-7.09)		5371	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.516	3.542	-0.026	1.000	1119148	1.56		62.6	10872	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.526	3.546	-0.020	1.003	464973	0.9853		98.5	3808	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.673	3.696	-0.023	1.000	843479	0.9547		99.0	23132	
599.00 > 99.00	3.673	3.696	-0.023	1.000	295708		2.85(1.39-4.16)		8058	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.684	3.711	-0.027	1.000	1263554	1.68		67.3	8143	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.694	3.717	-0.023	1.003	459331	0.99		99.1	12053	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.684	3.717	-0.033	0.997	695791	0.9514		95.1	4038	
563.00 > 169.00	3.694	3.717	-0.023	1.000	169666		4.10(2.12-6.36)		6600	
D 30 13C2 PFUnA										
565.00 > 520.00	3.694	3.722	-0.028	1.000	2278680	2.09		83.5	45147	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.851	3.874	-0.023	1.000	3587622	0.9707		103	42101	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.985	4.007	-0.022	1.000	1145145	0.9684		96.8	605	
613.00 > 169.00	3.985	4.007	-0.022	1.000	276775		4.14(2.13-6.40)		4562	
D 36 13C2 PFDoA										
615.00 > 570.00	3.985	4.011	-0.026	1.000	2735287	2.25		90.0	24790	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.239	4.270	-0.031	1.000	1153509	0.9120		91.2	562	
663.00 > 169.00	4.239	4.270	-0.031	1.000	365810		3.15(1.25-3.76)		4118	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.479	4.511	-0.032	1.000	322835	0.9208		92.1	2543	
713.00 > 219.00	4.479	4.511	-0.032	1.000	222840		1.45(0.71-2.13)		2796	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.479	4.513	-0.034	1.000	3509506	2.27		90.9	22435	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.886	4.922	-0.036	1.000	1945516	0.9404		94.0	376	
813.00 > 169.00	4.886	4.922	-0.036	1.000	330596		5.88(2.86-8.58)		1406	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.886	4.933	-0.047	1.000	5341044	2.24		89.6	12402	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.232	5.277	-0.045	1.000	1968679	0.9282		92.8	399	
913.00 > 169.00	5.232	5.277	-0.045	1.000	236146		8.34(3.83-11.48)		1088	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Report Date: 07-Apr-2018 11:26:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_008.d

Injection Date: 06-Apr-2018 14:23:44 Instrument ID: A8_N

Lims ID: LCS 320-215908/2-A

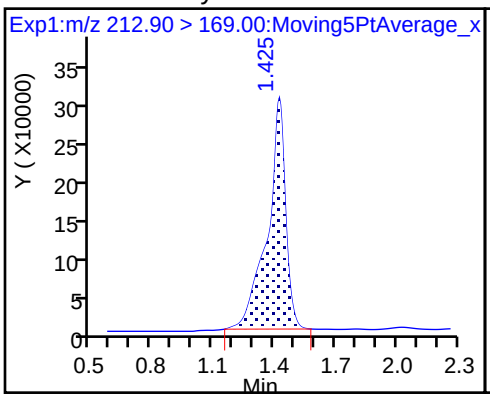
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 6

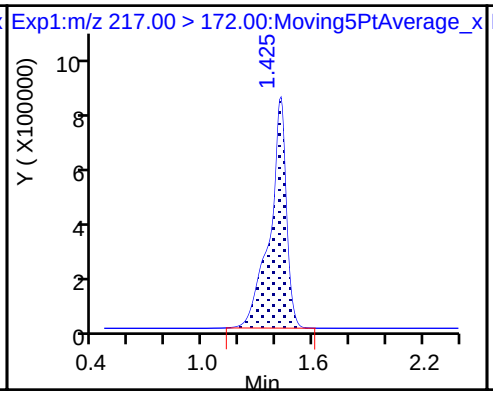
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

2 Perfluorobutyric acid



D 1 13C4 PFBA



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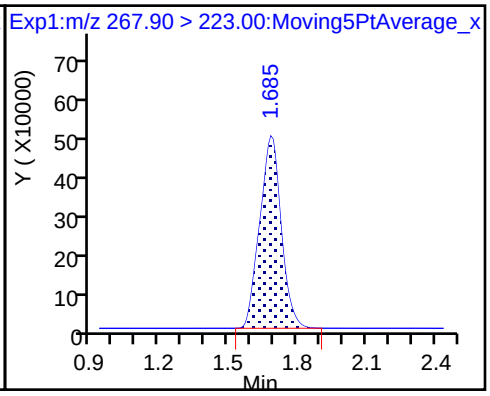
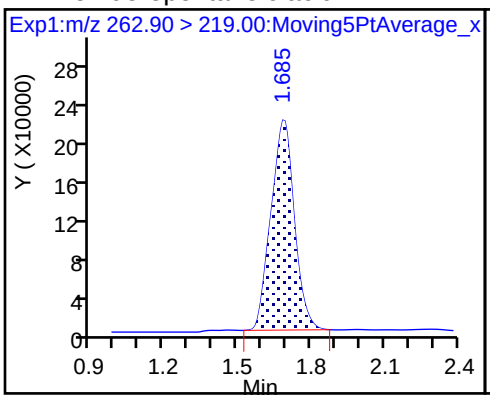
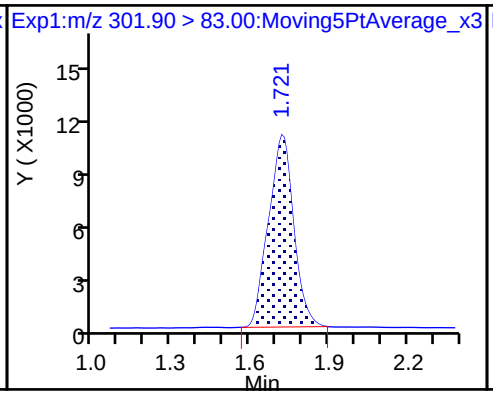


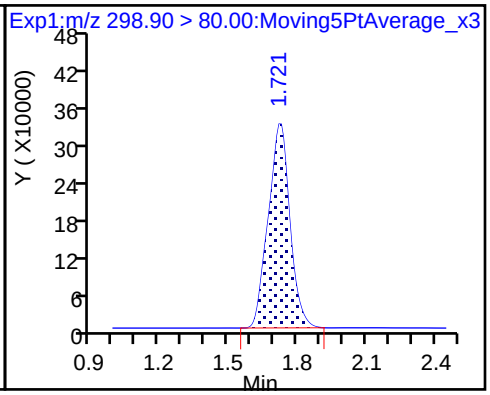
4 Perfluoropentanoic acid



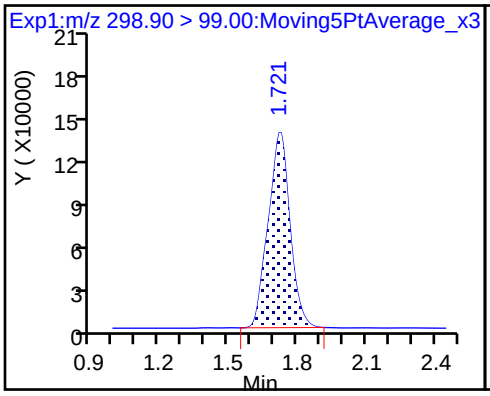
D 47 13C3-PFBS



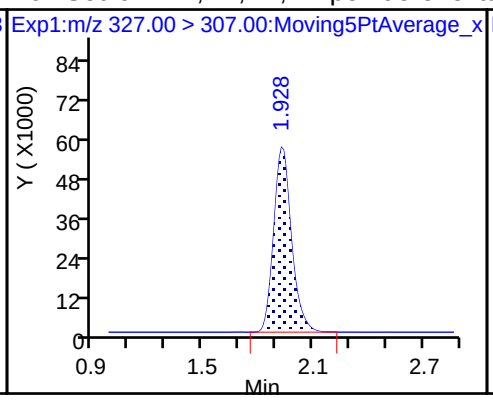
5 Perfluorobutanesulfonic acid



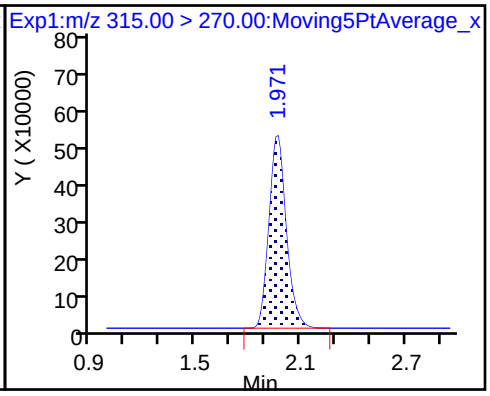
5 Perfluorobutanesulfonic acid



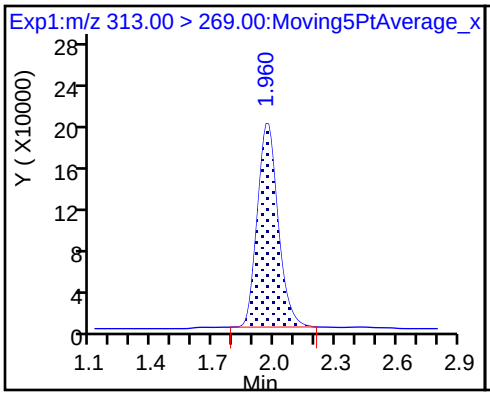
61 Sodium 1H,1H,2H,2H-perfluorohexa



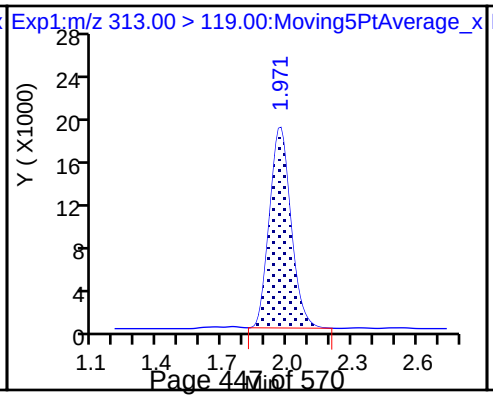
De 7 13C2 PFHxA



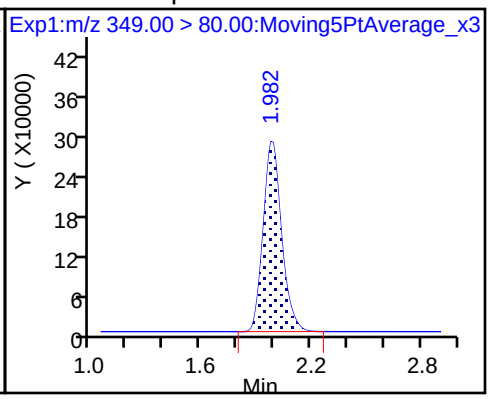
6 Perfluorohexanoic acid



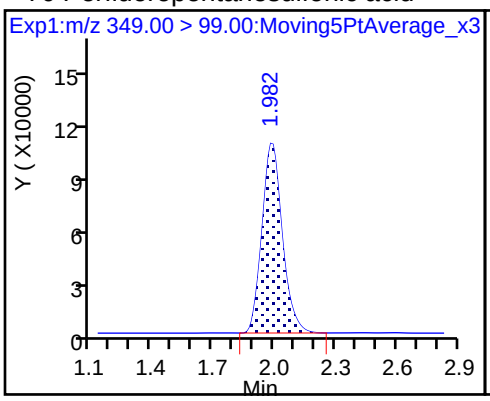
6 Perfluorohexanoic acid



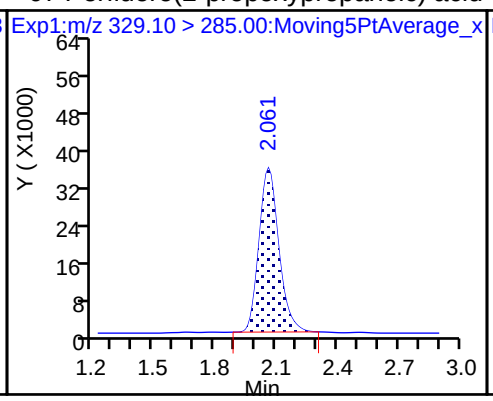
70 Perfluoropentanesulfonic acid



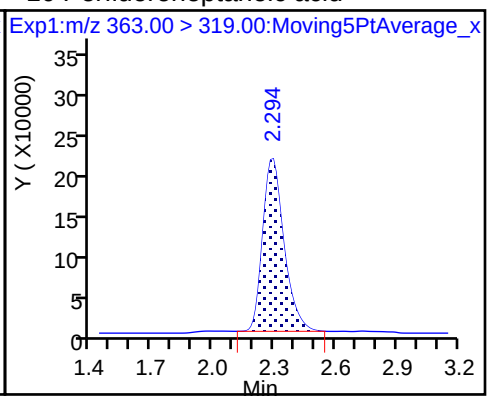
70 Perfluoropentanesulfonic acid



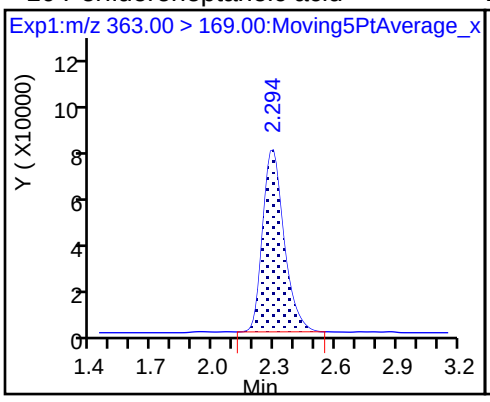
67 Perfluoro(2-propoxypropanoic) acid



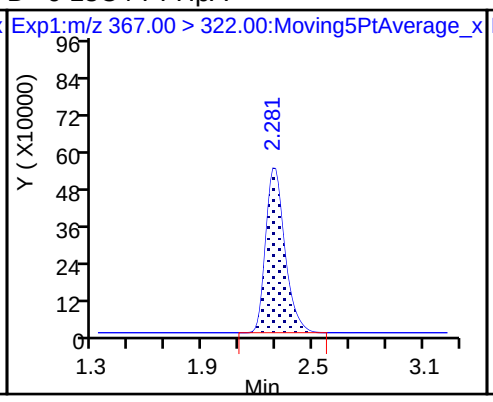
10 Perfluoroheptanoic acid



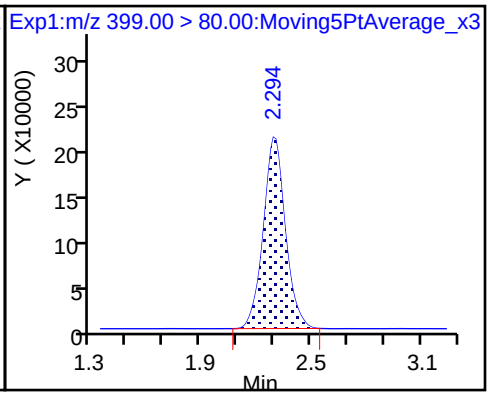
10 Perfluoroheptanoic acid



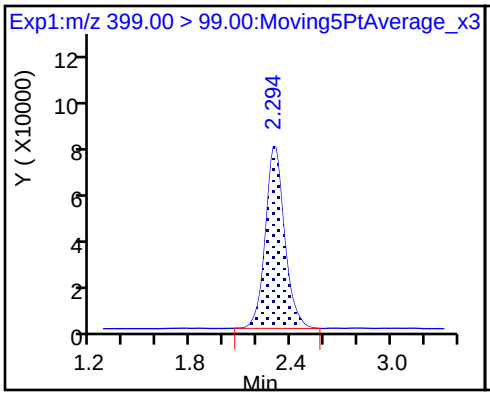
D 9 13C4-PFHpA



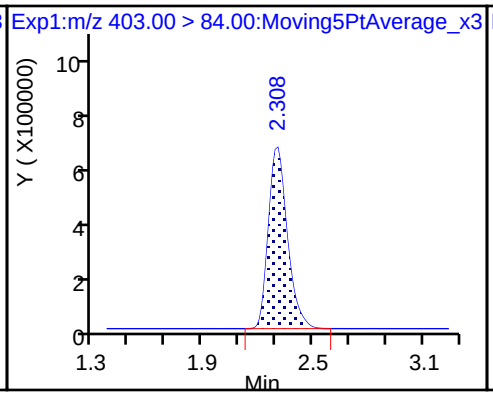
8 Perfluorohexanesulfonic acid



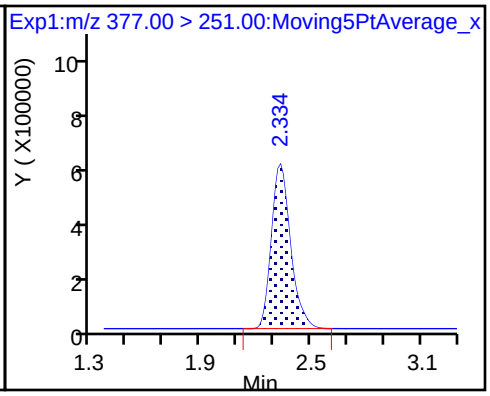
8 Perfluorohexanesulfonic acid



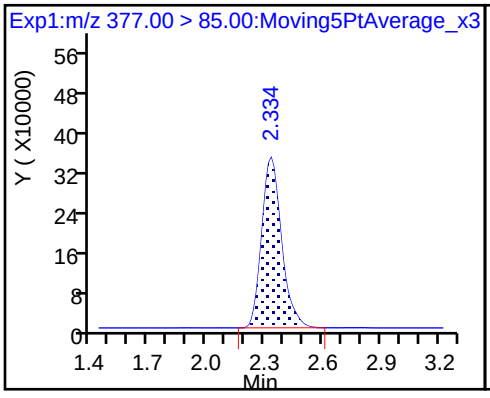
D 11 18O2 PFHxS



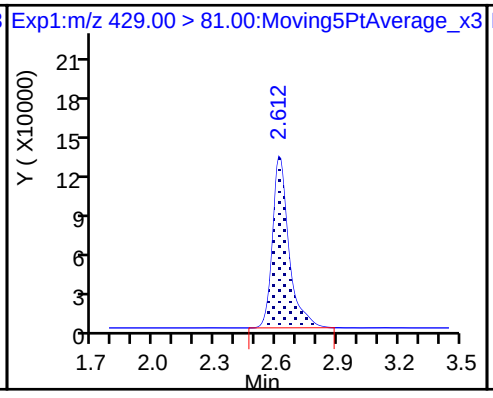
65 Adona



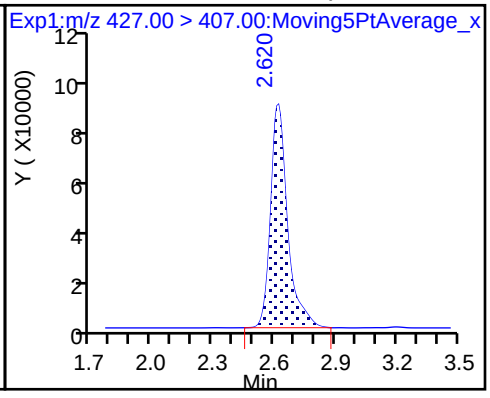
65 Adona



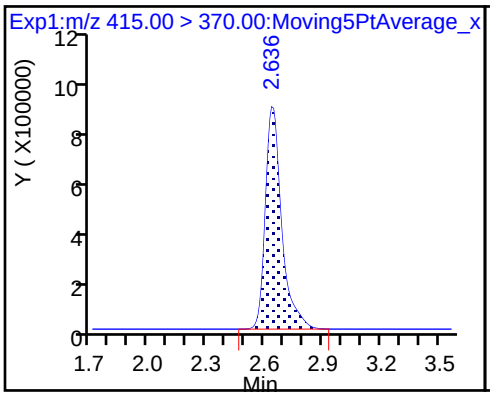
D 12 M2-6:2FTS



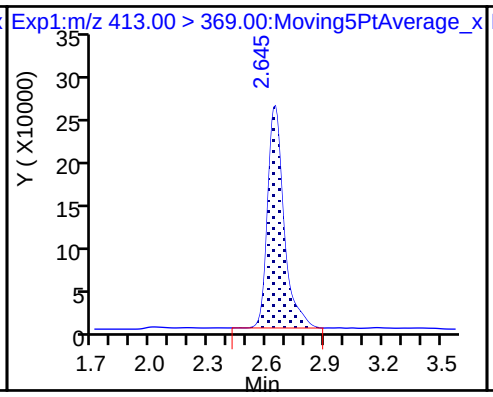
13 Sodium 1H,1H,2H,2H-perfluorooctane



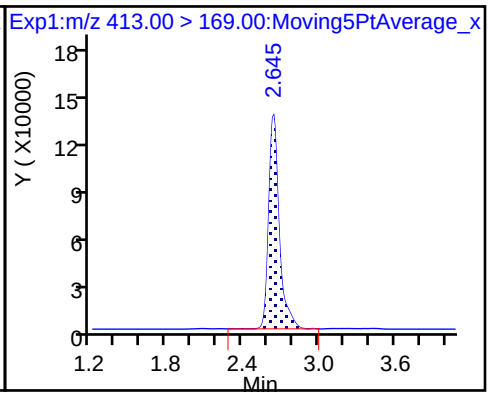
* 62 13C2-PFOA



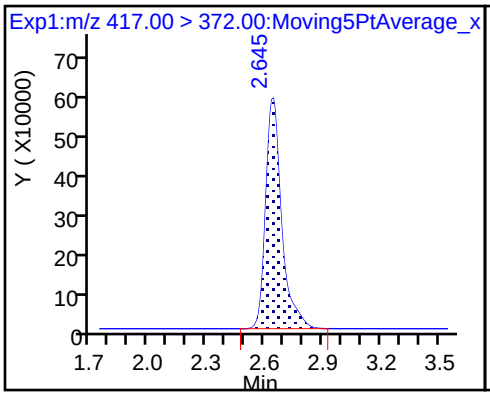
15 Perfluorooctanoic acid



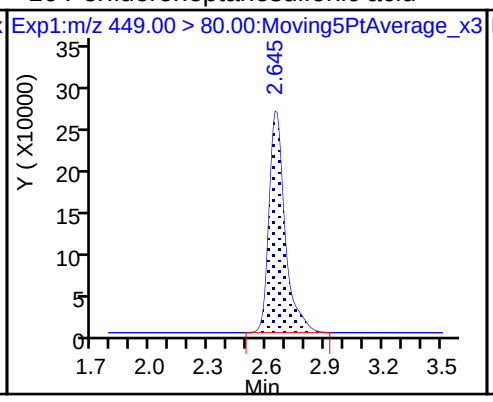
15 Perfluorooctanoic acid



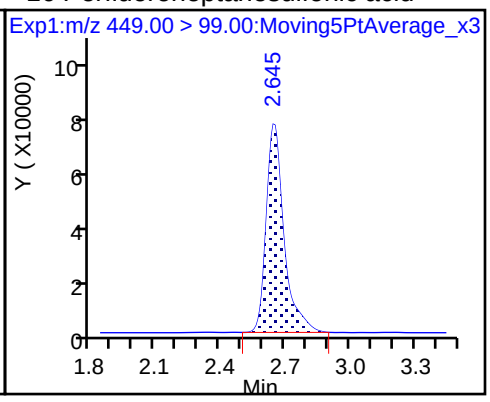
D 14 13C4 PFOA



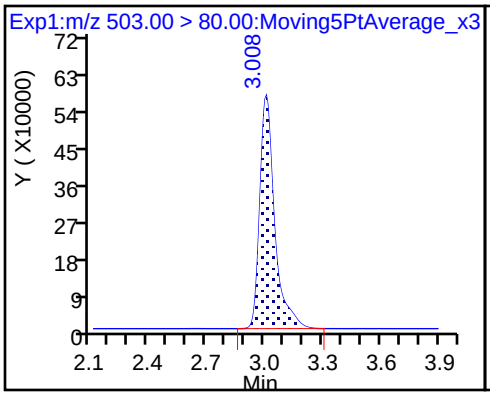
16 Perfluoroheptanesulfonic acid



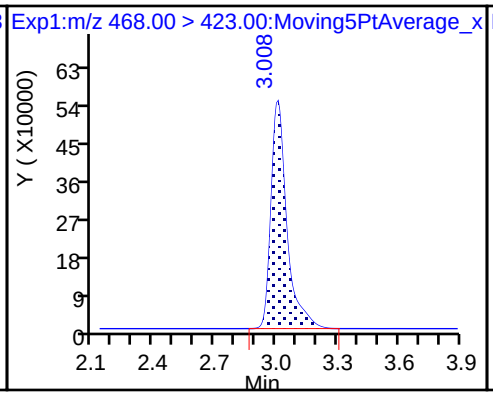
16 Perfluoroheptanesulfonic acid



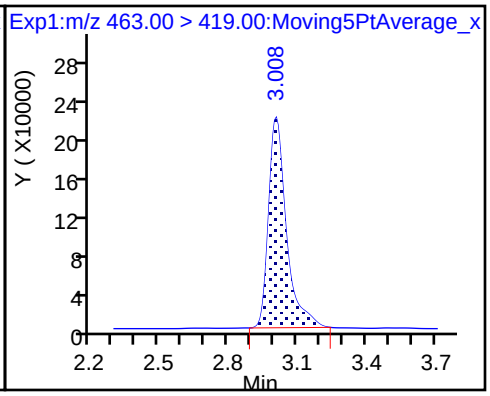
D 18 13C4 PFOS



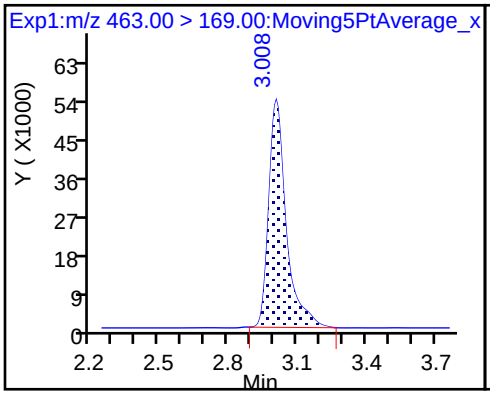
D 19 13C5 PFNA



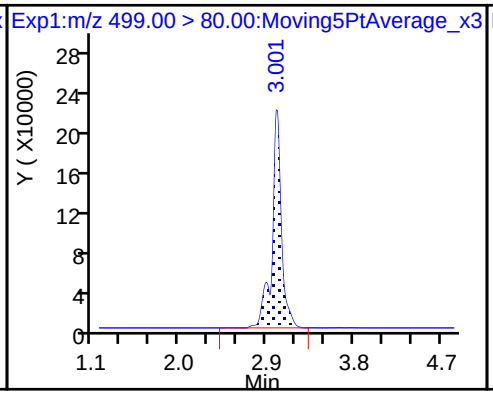
20 Perfluorononanoic acid



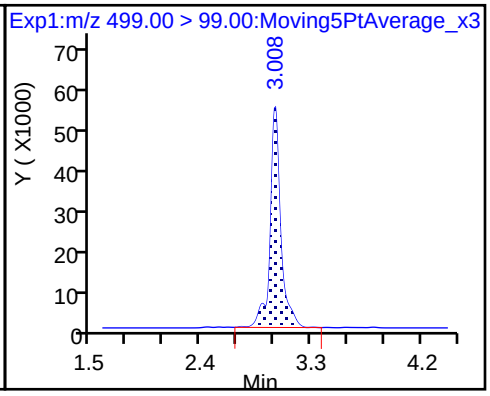
20 Perfluorononanoic acid



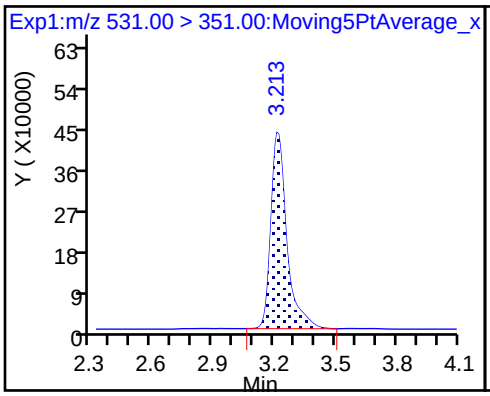
17 Perfluorooctane sulfonic acid



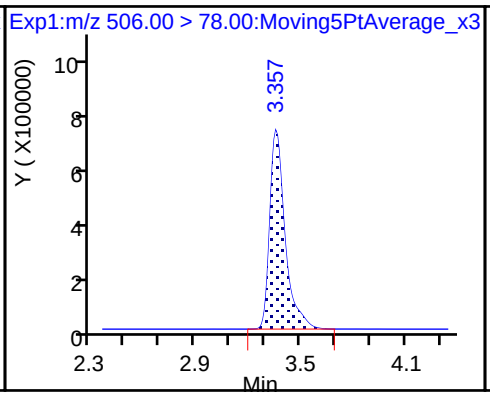
17 Perfluorooctane sulfonic acid



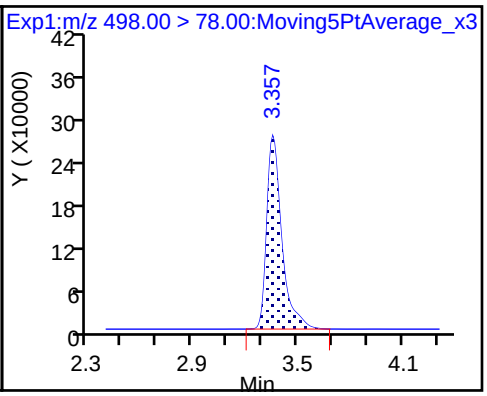
69 9-Chlorohexadecafluoro-3-oxanonane



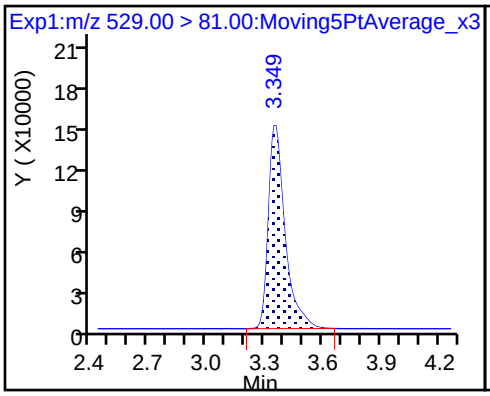
D 21 13C8 FOSA



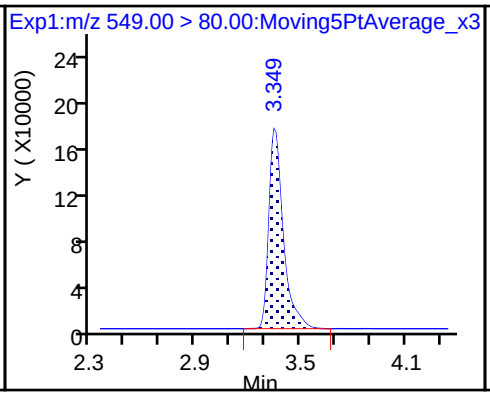
22 Perfluorooctane Sulfonamide



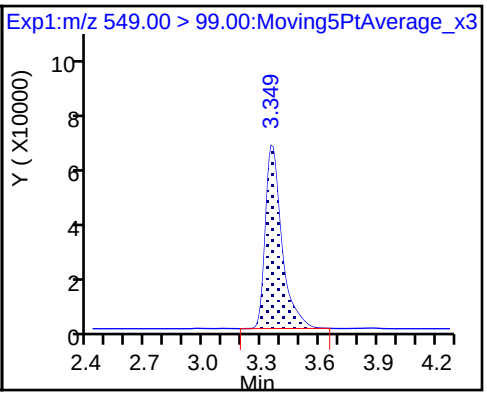
D 26 M2-8:2FTS



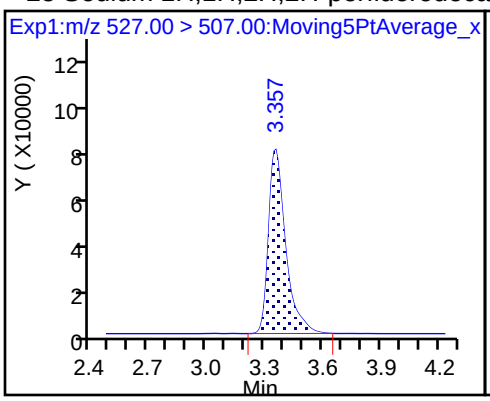
68 Perfluorononanesulfonic acid



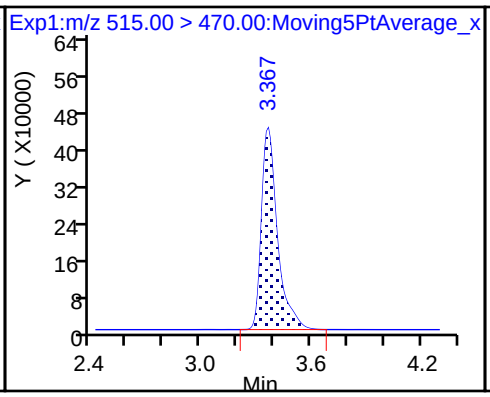
68 Perfluorononanesulfonic acid



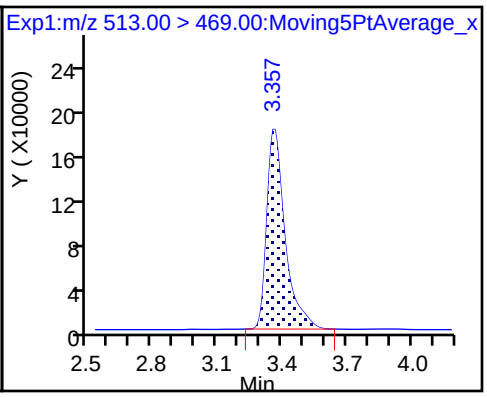
25 Sodium 1H,1H,2H,2H-perfluorodecane



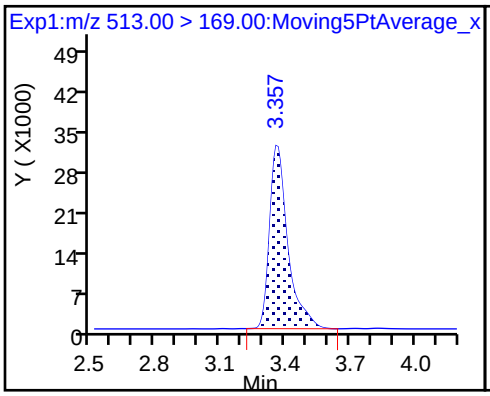
D 23 13C2 PFDA



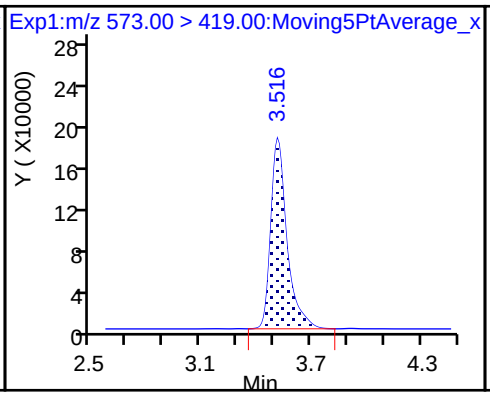
24 Perfluorodecanoic acid



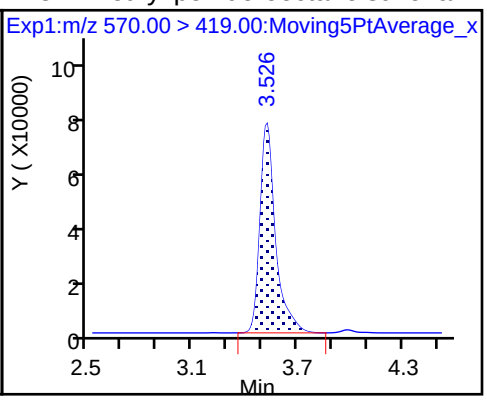
24 Perfluorodecanoic acid



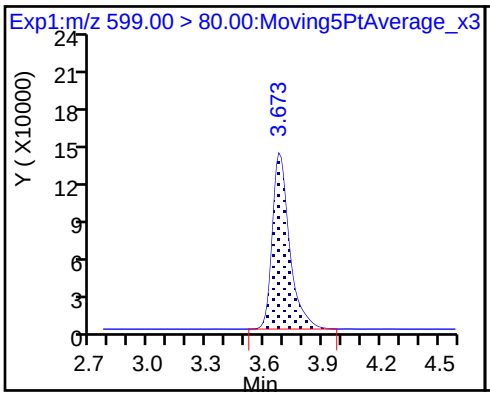
D 27 d3-NMeFOSAA



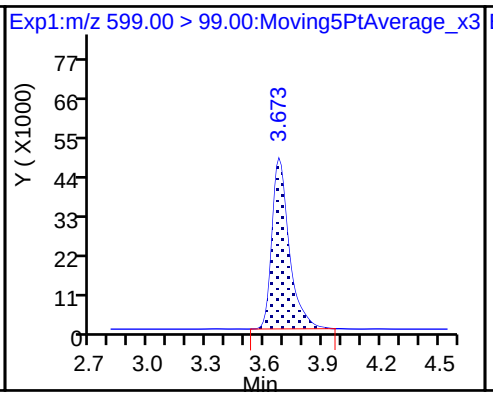
28 N-methyl perfluorooctane sulfonami



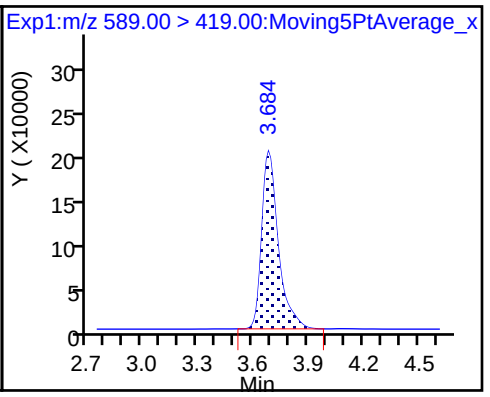
29 Perfluorodecane Sulfonic acid



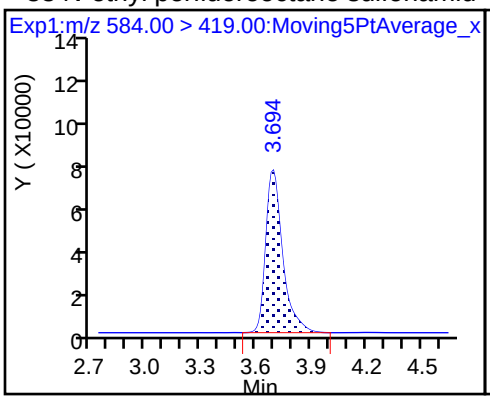
29 Perfluorodecane Sulfonic acid



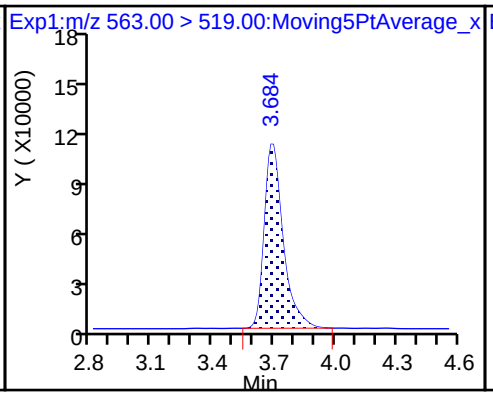
D 32 d5-NEtFOSAA



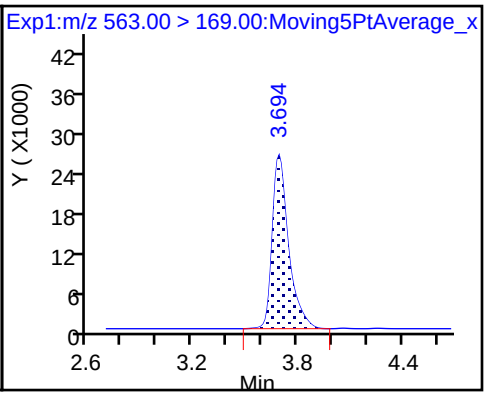
33 N-ethyl perfluorooctane sulfonamid



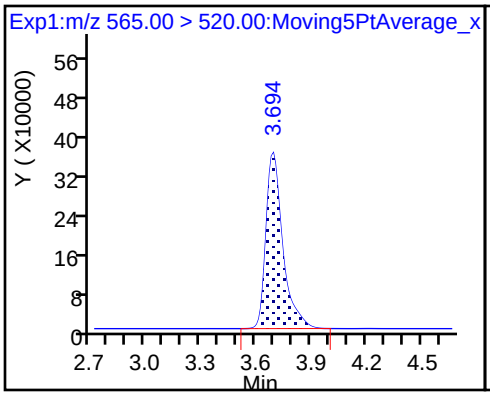
31 Perfluoroundecanoic acid



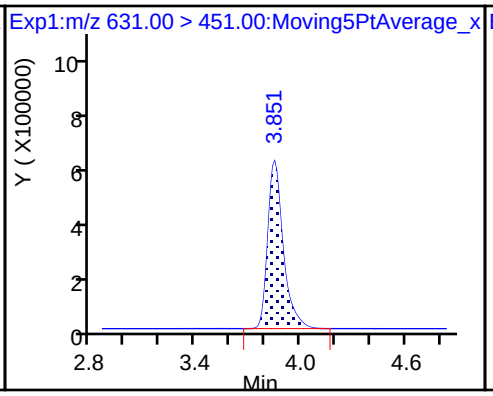
31 Perfluoroundecanoic acid



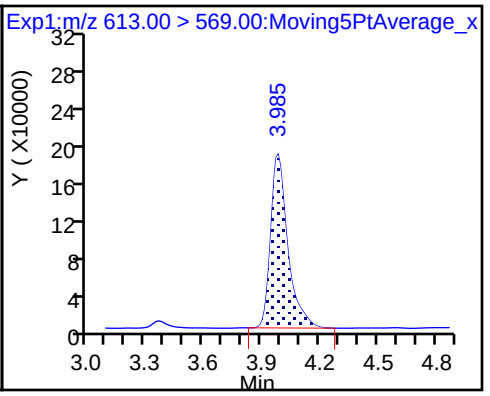
D 30 13C2 PFUnA



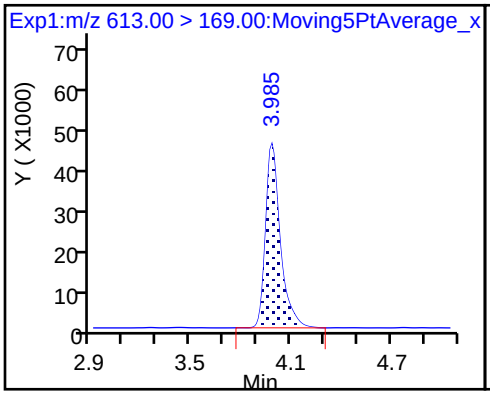
66 11-Chloroeicosafluoro-3-oxaundecan



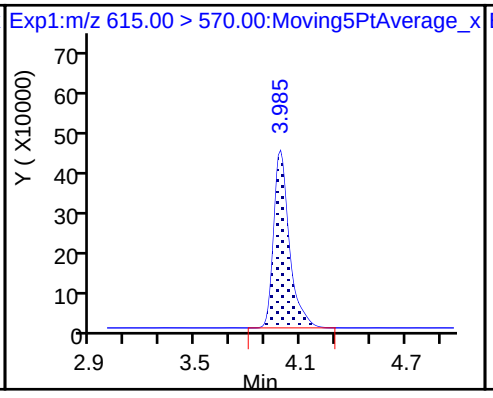
37 Perfluorododecanoic acid



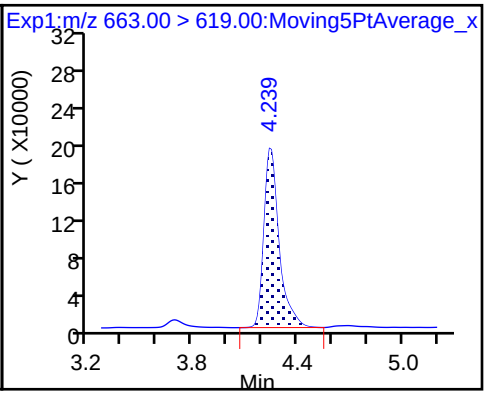
37 Perfluorododecanoic acid



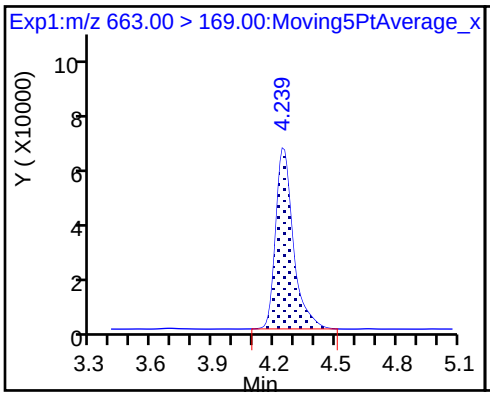
D 36 13C2 PFDoA



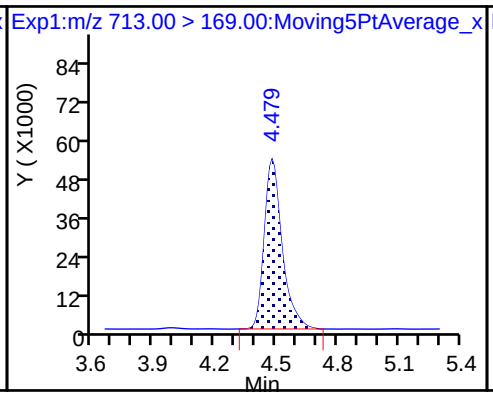
41 Perfluorotridecanoic acid



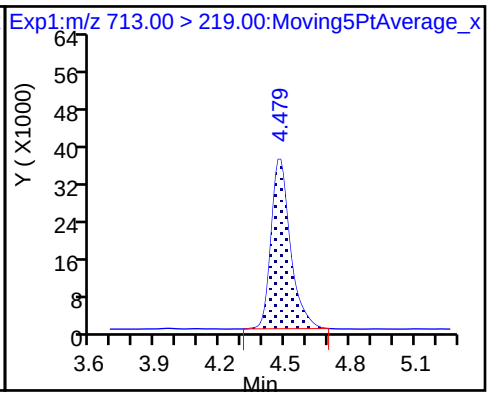
41 Perfluorotridecanoic acid



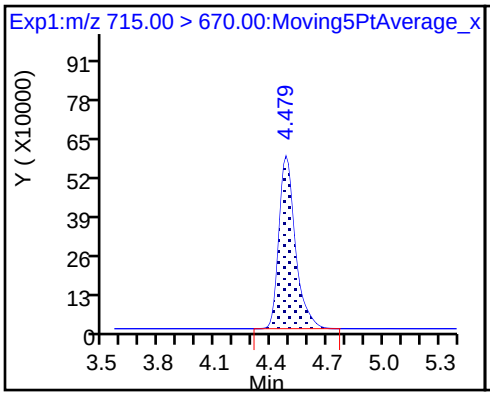
42 Perfluorotetradecanoic acid



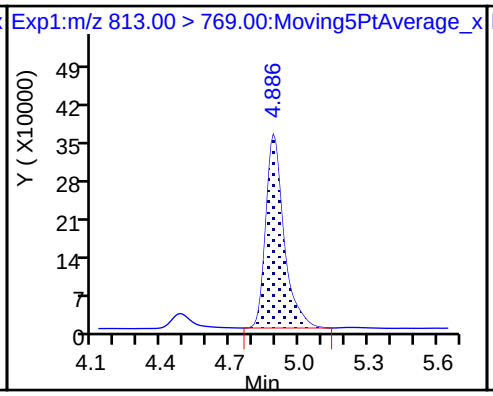
42 Perfluorotetradecanoic acid



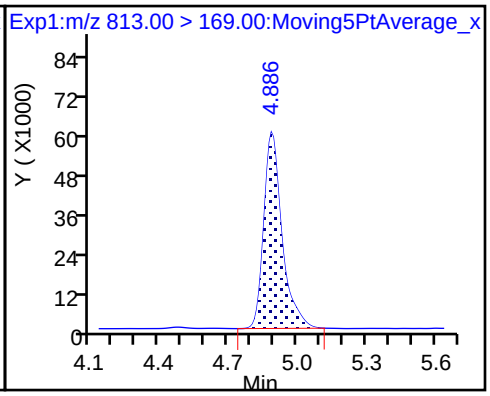
D 43 13C2-PFTeDA



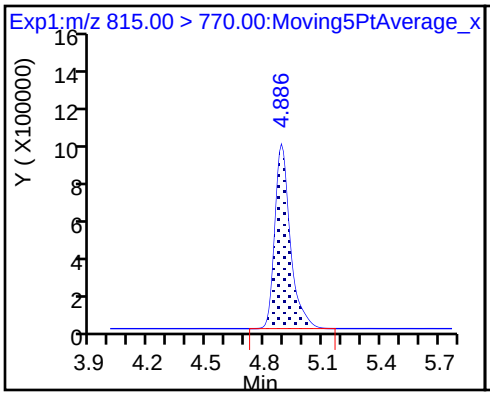
45 Perfluorohexadecanoic acid



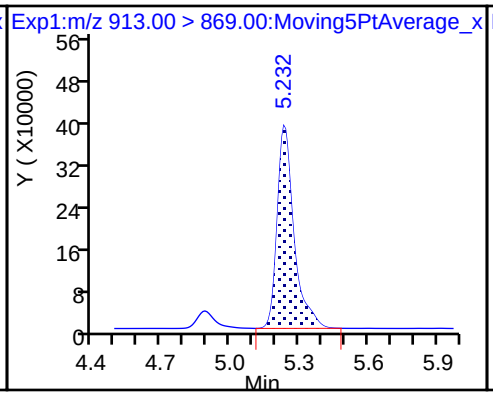
45 Perfluorohexadecanoic acid



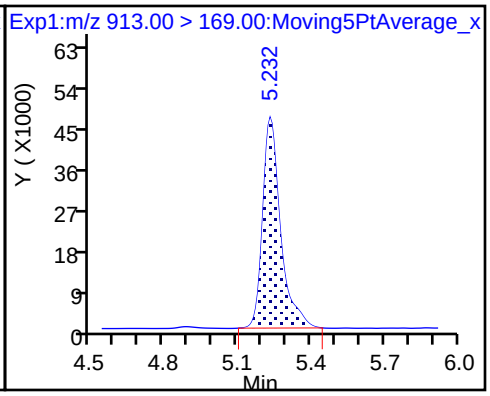
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-215106/3-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_010.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 19:15

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	38.08		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.41		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.73		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	36.50		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	38.37		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	38.42		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	37.71		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.06		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	37.46		2.00	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	35.82		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	36.06		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	33.36		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.35		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	37.36		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.27		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	36.05		2.00	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	36.61		2.00	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.24		20.0	3.10
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	37.04		20.0	1.90
27619-97-2	6:2FTS	33.87		20.0	2.00
39108-34-4	8:2FTS	37.59		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-215106/3-A

Matrix: Water | Lab File ID: 2018.03.28LLDXD_010.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 03/27/2018 20:41

Sample wt/vol: 250.00(mL) | Date Analyzed: 03/28/2018 19:15

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

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

Analysis Batch No.: 215294 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	108		25-150
STL01893	13C5 PFPeA	104		25-150
STL00993	13C2 PFHxA	102		25-150
STL01892	13C4-PFHpA	110		25-150
STL00990	13C4 PFOA	98		25-150
STL00995	13C5 PFNA	98		25-150
STL00996	13C2 PFDA	97		25-150
STL00997	13C2 PFUnA	84		25-150
STL00998	13C2 PFDoA	84		25-150
STL02116	13C2-PFTeDA	88		25-150
STL02337	13C3-PFBS	106		25-150
STL00994	18O2 PFHxS	112		25-150
STL00991	13C4 PFOS	103		25-150
STL01056	13C8 FOSA	104		25-150
STL02118	d3-NMeFOSAA	85		25-150
STL02117	d5-NEtFOSAA	83		25-150
STL02279	M2-6:2FTS	119		25-150
STL02280	M2-8:2FTS	104		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_010.d
Lims ID: LCSD 320-215106/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 28-Mar-2018 19:15:15 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-215106/3-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 29-Mar-2018 07:49:47 Calib Date: 21-Mar-2018 19:11:19
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180321-55646.b\2018.03.21LLICALAX_008.d

Column 1 : Det: EXP1
Process Host: XAWRK034

First Level Reviewer: hannigana Date: 29-Mar-2018 07:40:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.440	1.441	-0.001	0.528	6586800	2.70		108	93285	
2 Perfluorobutyric acid										
212.90 > 169.00	1.440	1.446	-0.006	1.000	2363462	0.9521		95.2	873	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.005	1828487	0.9602		96.0	761	
D 3 13C5-PFPeA										
267.90 > 223.00	1.708	1.718	-0.010	0.627	4222289	2.61		104	110428	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.753	1.753	0.0	1.005	2534675	0.8341		94.4	1786	
298.90 > 99.00	1.753	1.753	0.0	1.005	1077187		2.35(1.25-3.74)		1714	
D 47 13C3-PFBS										
301.90 > 83.00	1.744	1.754	-0.010	0.640	90929	2.46		106	629	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.975	1.976	-0.001	1.000	575606	0.9112		97.6	37059	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.008	2.008	0.0	1.000	1808526	0.9682		96.8	3022	
313.00 > 119.00	2.008	2.008	0.0	1.000	167119		10.82(5.03-15.10)		2126	
D 7 13C2 PFHxA										
315.00 > 270.00	2.008	2.019	-0.011	0.736	4567548	2.55		102	173735	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.353	2.353	0.0	1.000	1830876	0.9125		91.3	1282	
363.00 > 169.00	2.353	2.353	0.0	1.000	712413		2.57(1.13-3.40)		1567	
D 9 13C4-PFHpA										
367.00 > 322.00	2.353	2.354	-0.001	0.863	4848814	2.75		110	107619	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.367	2.367	0.0	1.000	2200531	0.8088		88.9	10867	
399.00 > 99.00	2.367	2.367	0.0	1.000	753564		2.92(1.50-4.49)		3916	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.367	2.368	-0.001	0.868	5781155	2.66		112	115811	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.695	2.695	0.0	1.000	644213	0.8468		89.3	9957	
D 12 M2-6:2FTS										
429.00 > 81.00	2.695	2.705	-0.010	0.988	1036238	2.83		119	48738	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.726	2.726	0.0	1.000	1958044	0.9339		98.1	52076	
449.00 > 99.00	2.726	2.726	0.0	1.000	510439		3.84(1.94-5.82)		13543	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.726	2.726	0.0	1.000	1915010	0.9592		95.9	709	
413.00 > 169.00	2.726	2.726	0.0	1.000	993487		1.93(0.84-2.52)		4010	
* 62 13C2-PFOA										M
415.00 > 370.00	2.726	2.726	0.0		4813679	2.50			56010	M
D 14 13C4 PFOA										
417.00 > 372.00	2.726	2.728	-0.002	1.000	4418106	2.45		97.9	115164	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.103	3.095	0.008	1.000	1607192	0.8817		95.0	4212	
499.00 > 99.00	3.103	3.095	0.008	1.000	364778		4.41(2.31-6.93)		3563	
20 Perfluorononanoic acid										
463.00 > 419.00	3.103	3.103	0.0	1.000	1500216	0.9606		96.1	1316	
463.00 > 169.00	3.103	3.103	0.0	1.000	379914		3.95(1.90-5.69)		8926	
D 19 13C5 PFNA										
468.00 > 423.00	3.103	3.112	-0.009	1.138	3914067	2.46		98.4	83815	
D 18 13C4 PFOS										
503.00 > 80.00	3.103	3.112	-0.009	1.138	3910920	2.47		103	83428	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.416	3.417	-0.001	1.000	2003157	0.9153		91.5	36946	
D 21 13C8 FOSA										
506.00 > 78.00	3.416	3.418	-0.002	1.253	5550193	2.60		104	82004	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.453	3.454	-0.001	1.000	616529	0.9397		98.1	7881	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.462	3.463	-0.001	1.000	1261275	0.9428		94.3	6659	
513.00 > 169.00	3.462	3.463	-0.001	1.000	219532		5.75(2.36-7.09)		5925	
D 26 M2-8:2FTS										
529.00 > 81.00	3.453	3.464	-0.011	1.266	1231228	2.49		104	33509	
D 23 13C2 PFDA										
515.00 > 470.00	3.462	3.473	-0.011	1.270	3385045	2.43		97.1	52919	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.622	3.623	-0.001	1.000	626988	1.01		101	6161	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.622	3.633	-0.011	1.329	1556764	2.12		84.8	40663	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.781	3.781	0.0	1.000	1002858	0.9013		93.5	41223	
599.00 > 99.00	3.781	3.781	0.0	1.000	346305		2.90(1.39-4.16)		10026	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.791	3.792	-0.001	1.000	598608	0.9261		92.6	11881	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.802	3.802	0.0	1.003	796444	0.8765		87.6	3352	
563.00 > 169.00	3.802	3.802	0.0	1.003	206705		3.85(2.12-6.36)		9440	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.791	3.804	-0.013	1.391	1729728	2.07		82.7	3811	
D 30 13C2 PFUnA										
565.00 > 520.00	3.791	3.804	-0.013	1.391	2634947	2.11		84.5	66246	
35 MeFOSA										
512.00 > 169.00	3.632	3.875	-0.243		6028	NC			236	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.091	4.092	-0.001	1.000	1171955	0.9364		93.6	832	
613.00 > 169.00	4.091	4.092	-0.001	1.000	286826		4.09(2.13-6.40)		5303	
D 36 13C2 PFDoA										
615.00 > 570.00	4.091	4.105	-0.014	1.501	2990102	2.11		84.5	20974	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.363	4.356	0.007	1.000	1178830	0.8954		89.5	456	
663.00 > 169.00	4.363	4.356	0.007	1.000	383629		3.07(1.25-3.76)		6753	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.597	4.601	-0.004	1.000	338397	0.9015		90.2	5309	
713.00 > 219.00	4.597	4.601	-0.004	1.000	240049		1.41(0.71-2.13)		4043	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.597	4.613	-0.016	1.686	3787163	2.19		87.6	25047	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.018	5.012	0.006	1.000	2108405	0.9867		98.7	475	
813.00 > 169.00	5.018	5.012	0.006	1.000	343393		6.14(2.86-8.58)		2601	
D 44 13C2-PFHxDA										
815.00 > 770.00	5.018	5.040	-0.022	1.841	5736621	2.02		80.9	16367	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.391	5.387	0.004	1.000	2239913	1.06		106	448	
913.00 > 169.00	5.391	5.387	0.004	1.000	277658		8.07(3.83-11.48)		2761	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 29-Mar-2018 07:50:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_010.d

Injection Date: 28-Mar-2018 19:15:15 Instrument ID: A8_N

Lims ID: LCSD 320-215106/3-A

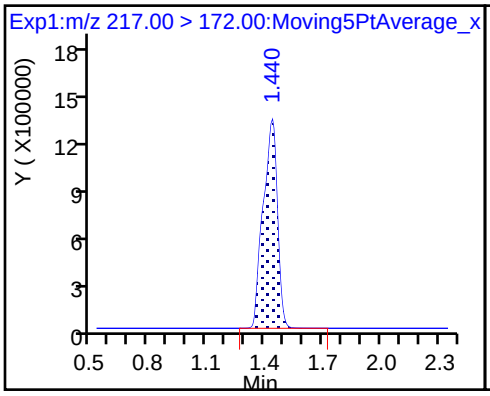
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 7

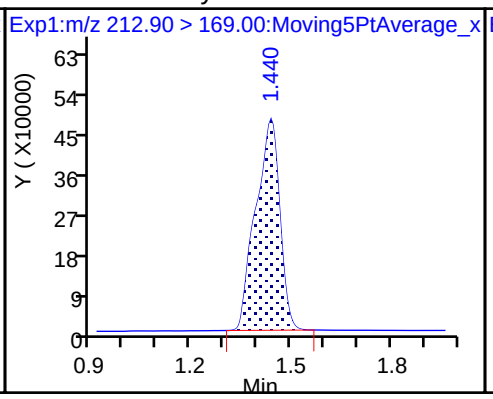
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

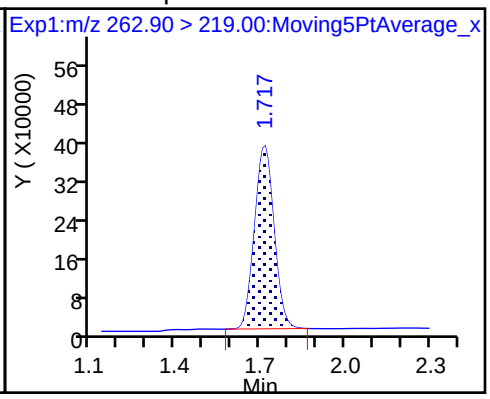
D 1 13C4 PFBA



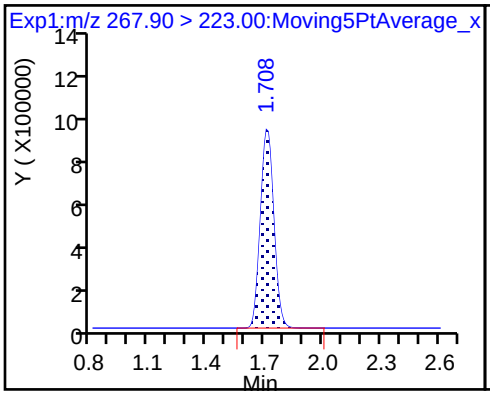
2 Perfluorobutyric acid



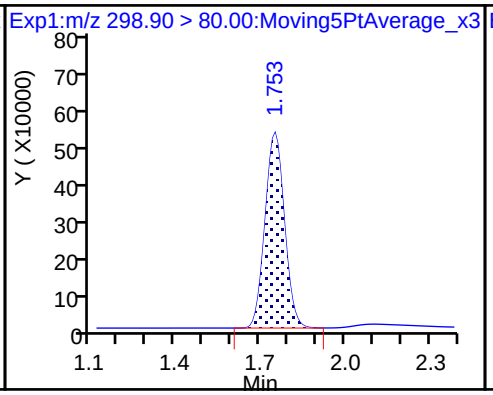
4 Perfluoropentanoic acid



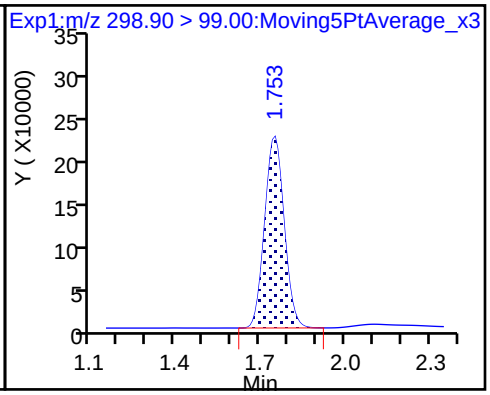
D 3 13C5-PFPeA



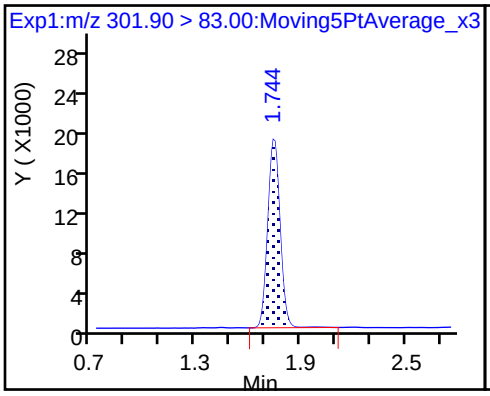
5 Perfluorobutanesulfonic acid



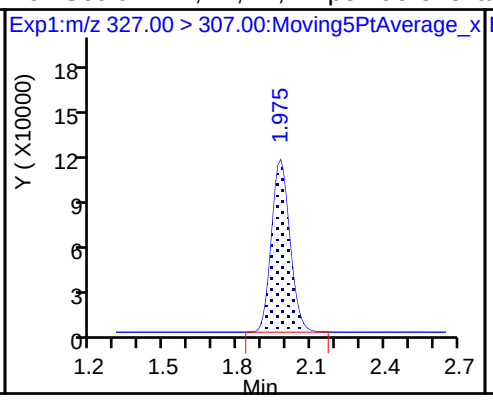
5 Perfluorobutanesulfonic acid



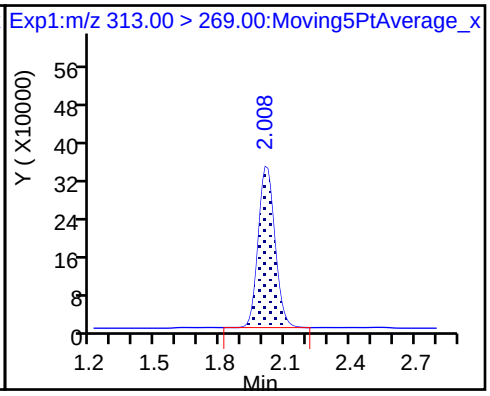
D 47 13C3-PFBS



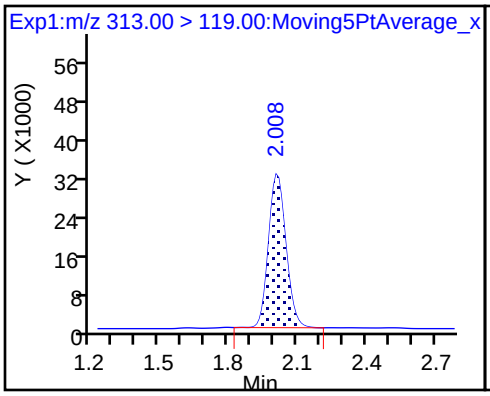
61 Sodium 1H,1H,2H,2H-perfluorohexane



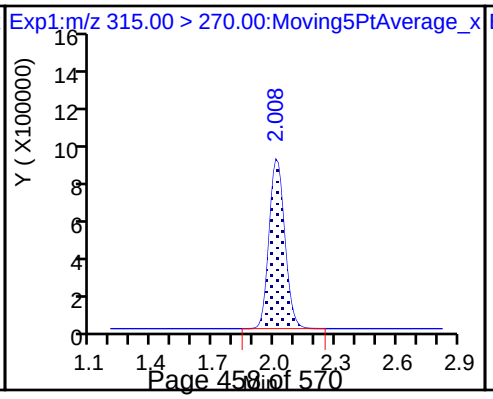
6 Perfluorohexanoic acid



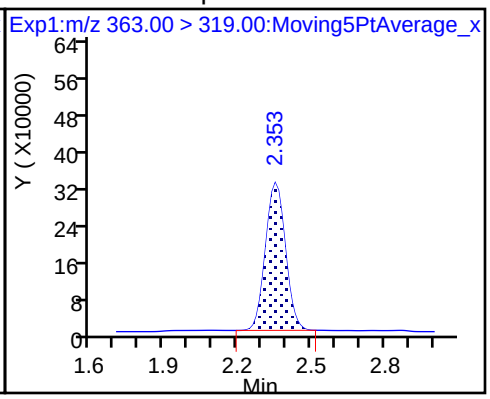
6 Perfluorohexanoic acid



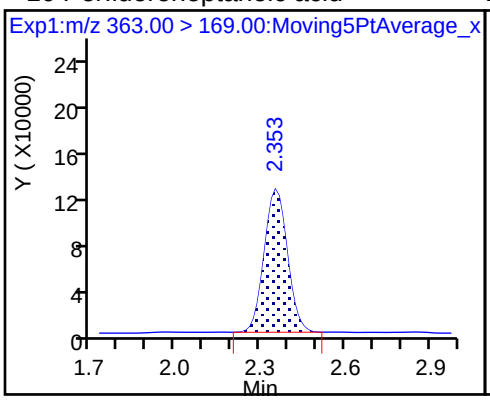
D 7 13C2 PFHxA



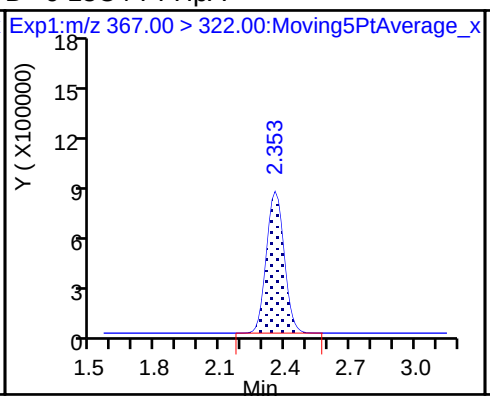
10 Perfluoroheptanoic acid



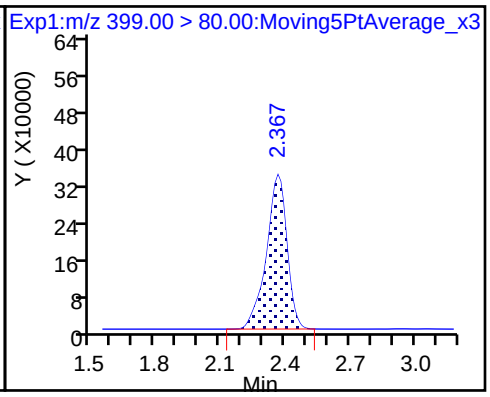
10 Perfluoroheptanoic acid



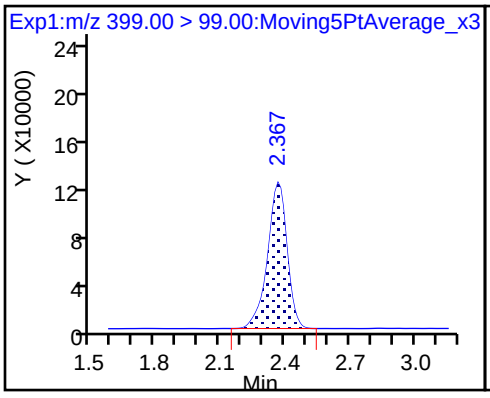
D 9 13C4-PFHpA



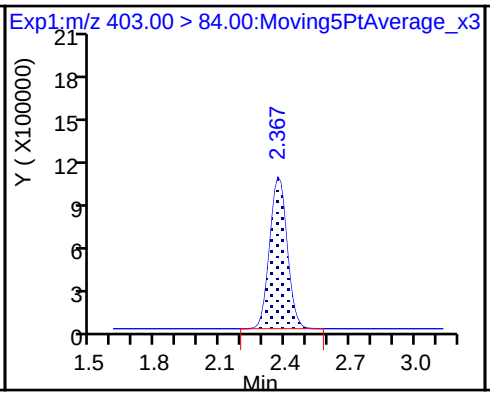
8 Perfluorohexanesulfonic acid



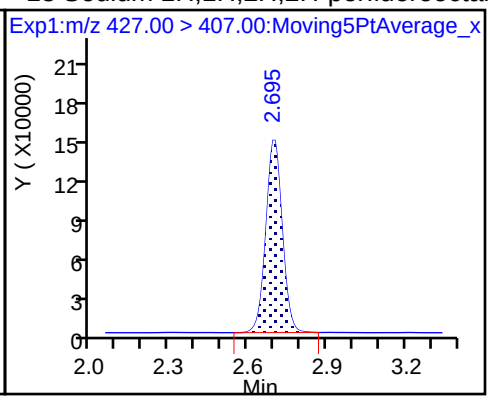
8 Perfluorohexanesulfonic acid



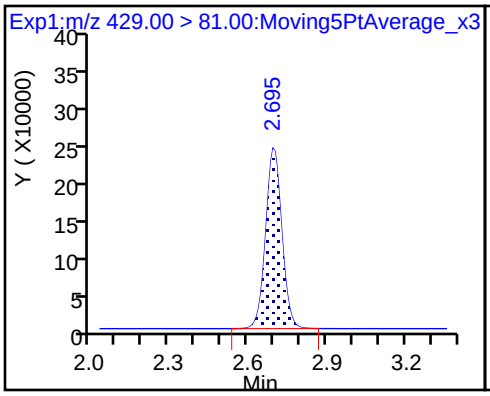
D 11 18O2 PFHxS



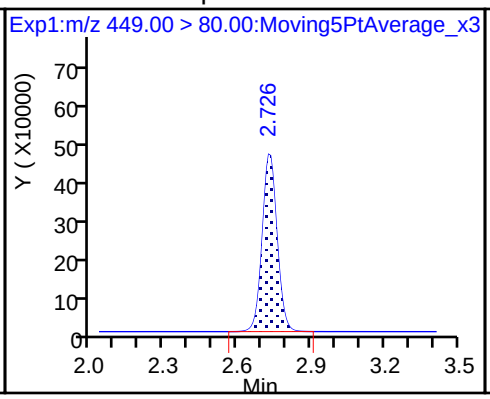
13 Sodium 1H,1H,2H,2H-perfluorooctane



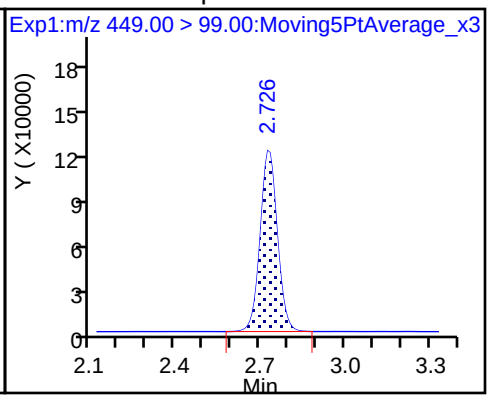
D 12 M2-6:2FTS



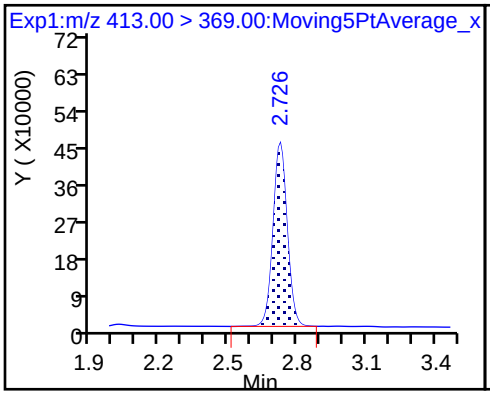
16 Perfluoroheptanesulfonic acid



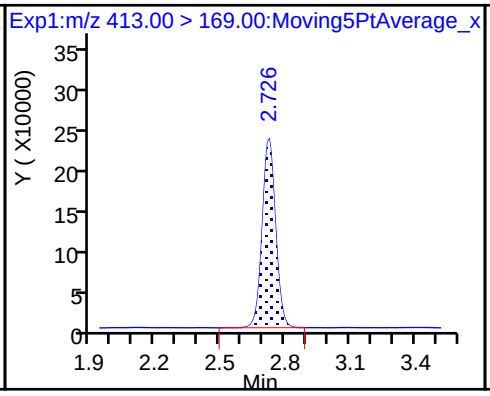
16 Perfluoroheptanesulfonic acid



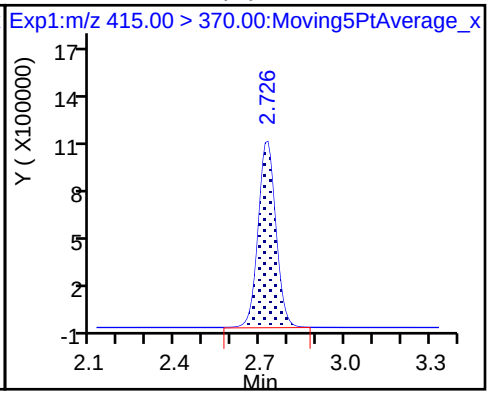
15 Perfluorooctanoic acid



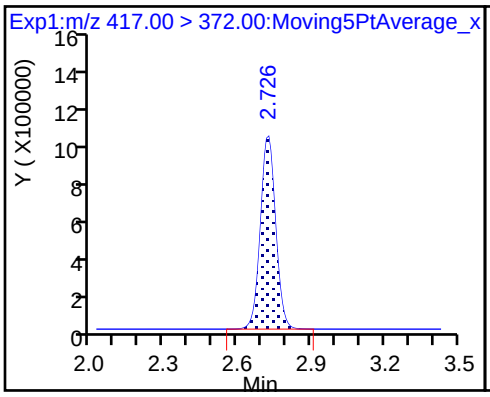
15 Perfluorooctanoic acid



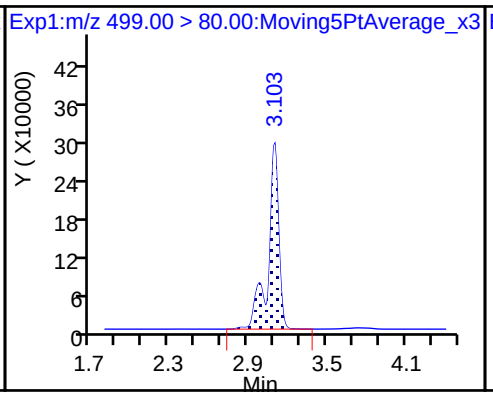
* 62 13C2-PFOA (M)



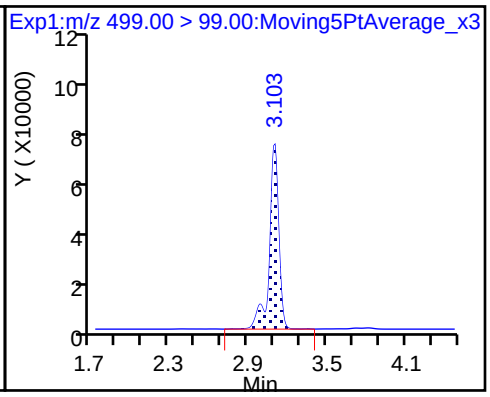
D 14 13C4 PFOA



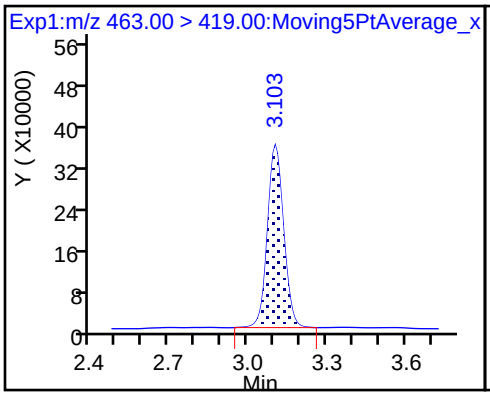
17 Perfluorooctane sulfonic acid



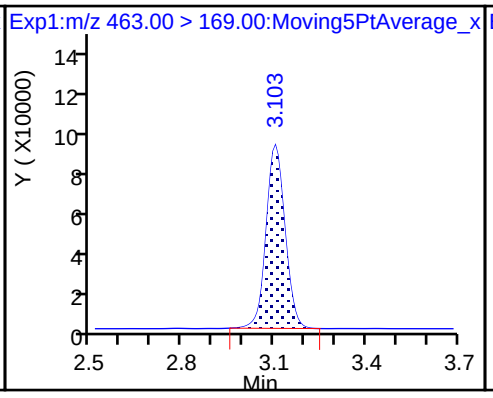
17 Perfluorooctane sulfonic acid



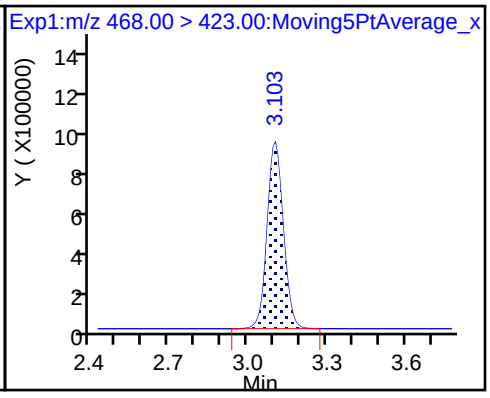
20 Perfluorononanoic acid



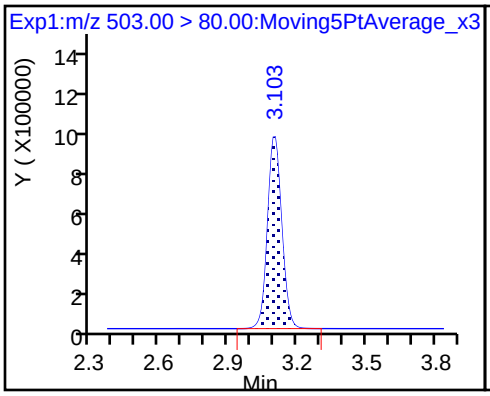
20 Perfluorononanoic acid



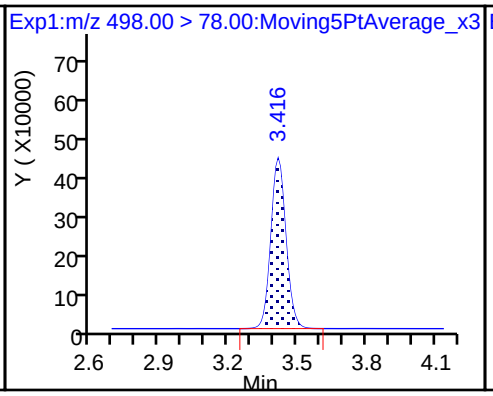
D 19 13C5 PFNA



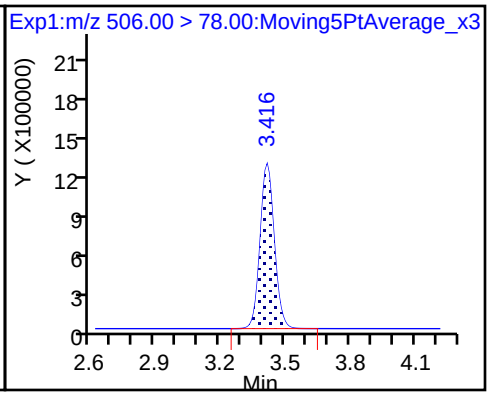
D 18 13C4 PFOS



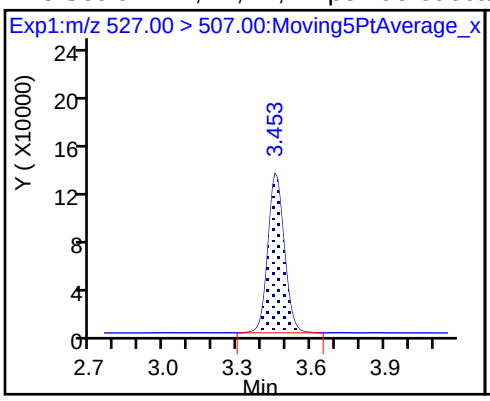
22 Perfluorooctane Sulfonamide



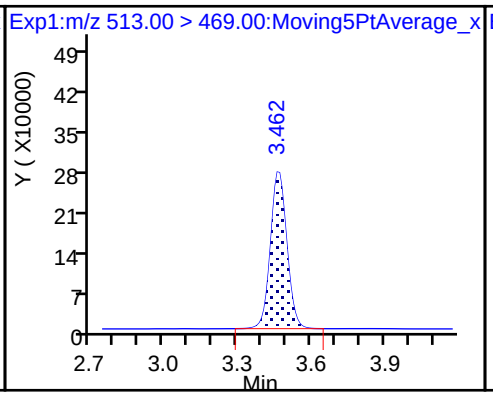
D 21 13C8 FOSA



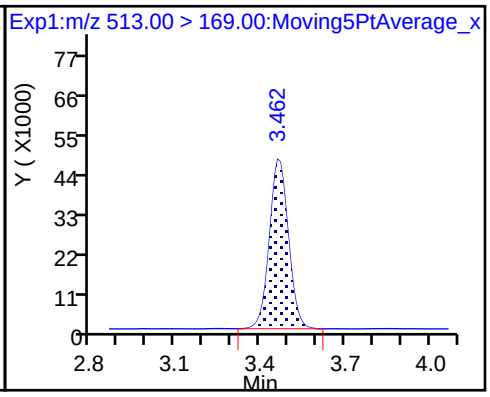
25 Sodium 1H,1H,2H,2H-perfluorodecane



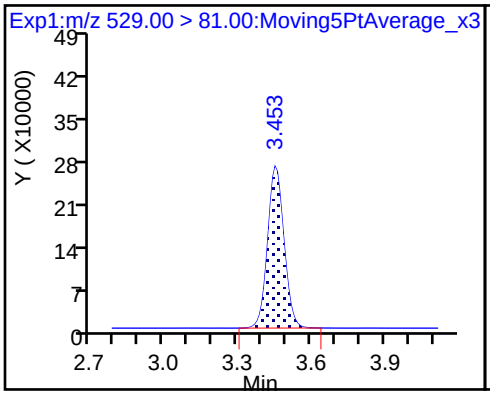
24 Perfluorodecanoic acid



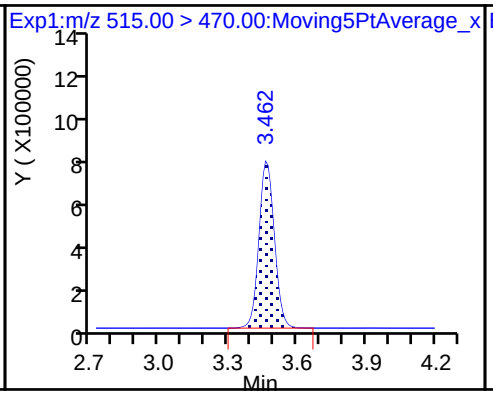
24 Perfluorodecanoic acid



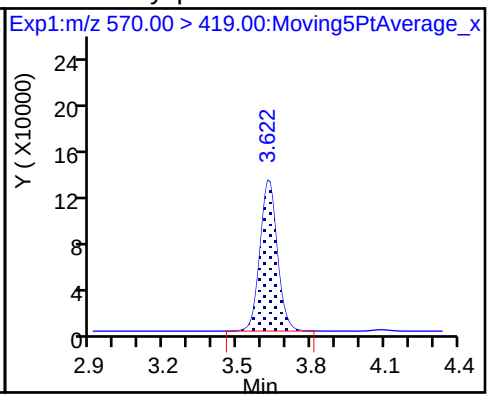
D 26 M2-8:2FTS



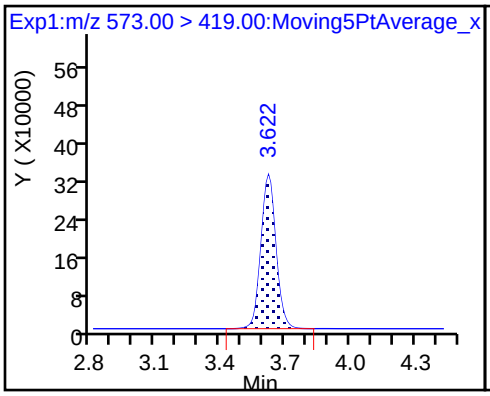
D 23 13C2 PFDA



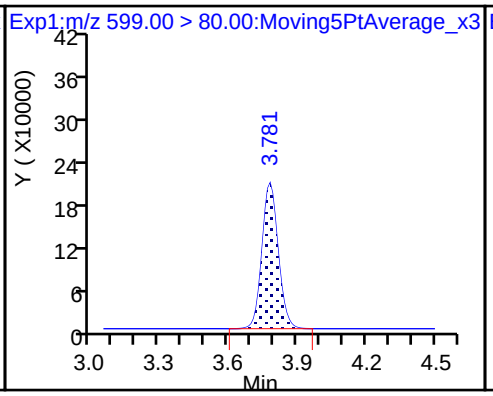
28 N-methyl perfluorooctane sulfonami



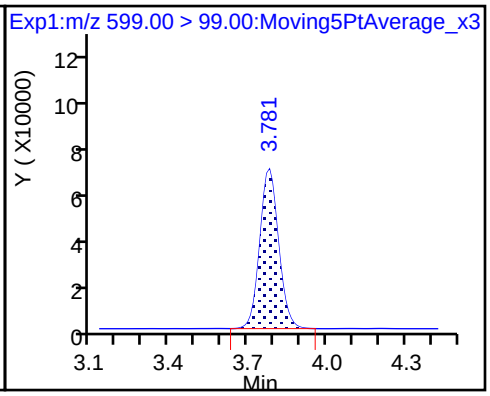
D 27 d3-NMeFOSAA



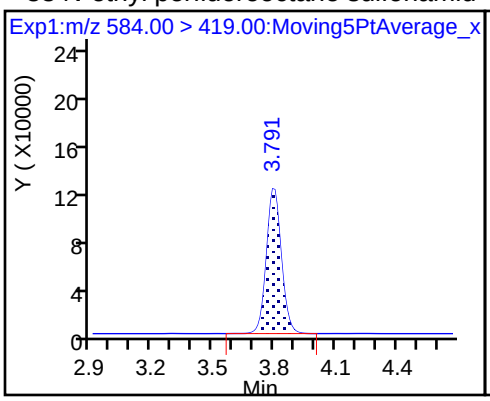
29 Perfluorodecane Sulfonic acid



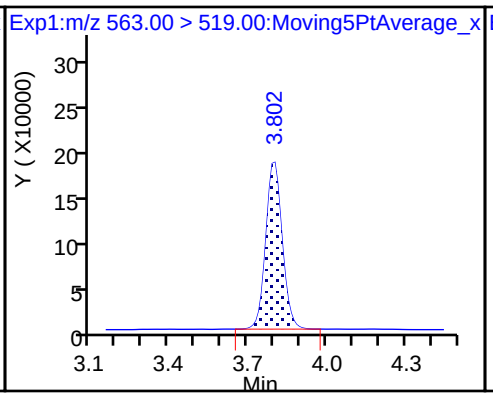
29 Perfluorodecane Sulfonic acid



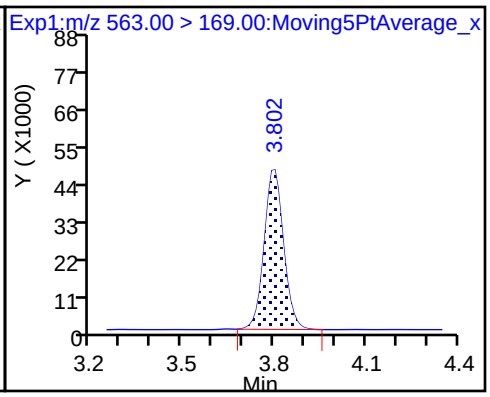
33 N-ethyl perfluorooctane sulfonamid



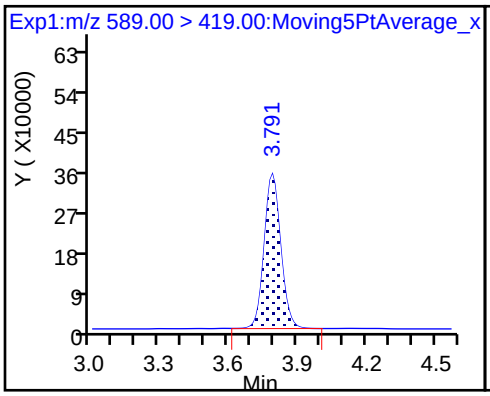
31 Perfluoroundecanoic acid



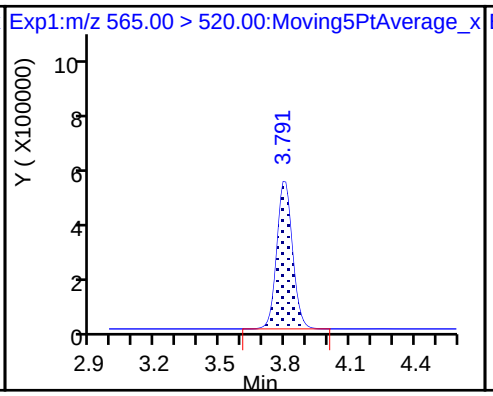
31 Perfluoroundecanoic acid



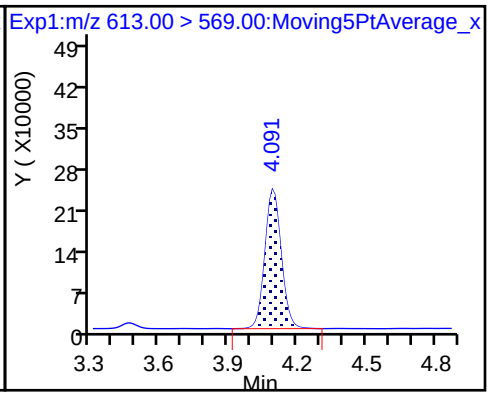
D 32 d5-NEtFOSAA



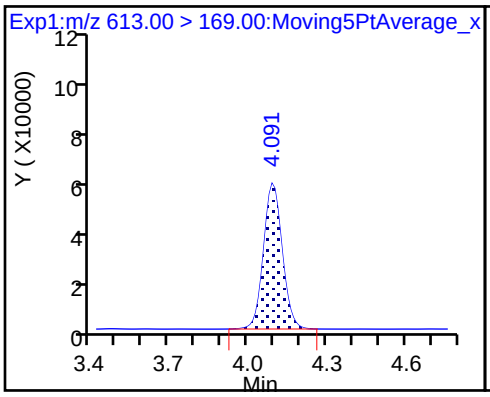
D 30 13C2 PFUnA



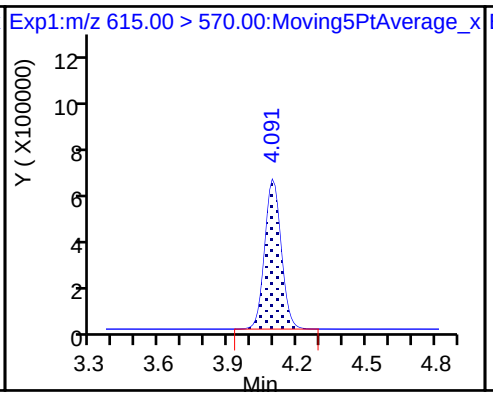
37 Perfluorododecanoic acid



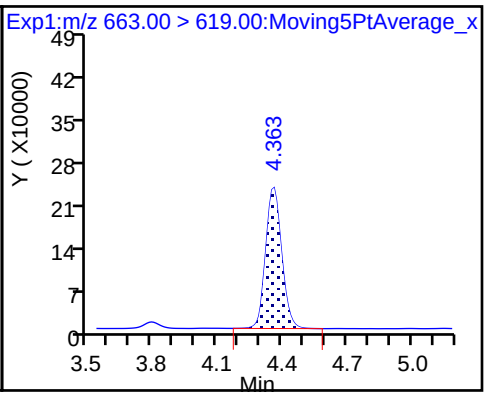
37 Perfluorododecanoic acid



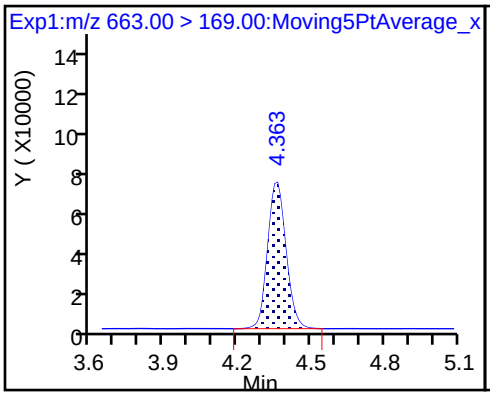
D 36 13C2 PFDoA



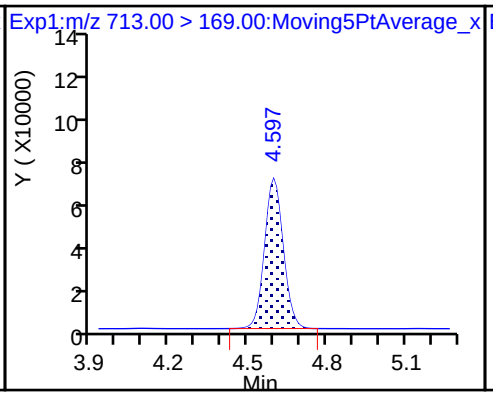
41 Perfluorotridecanoic acid



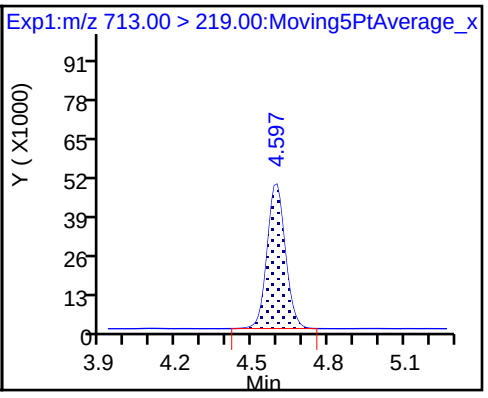
41 Perfluorotridecanoic acid



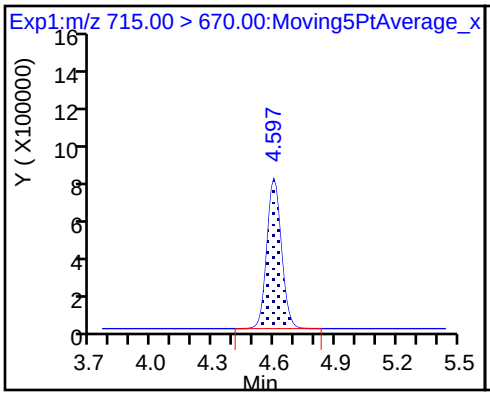
42 Perfluorotetradecanoic acid



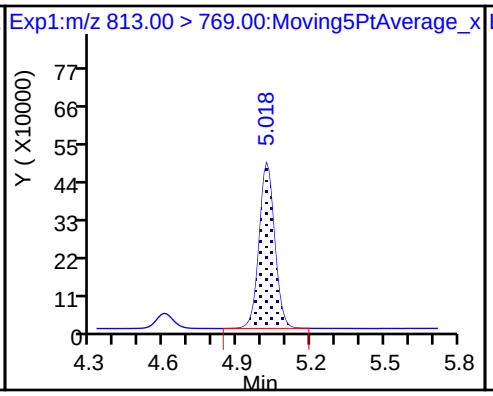
42 Perfluorotetradecanoic acid



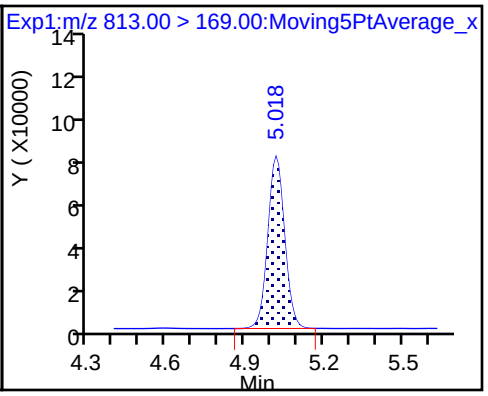
D 43 13C2-PFTeDA



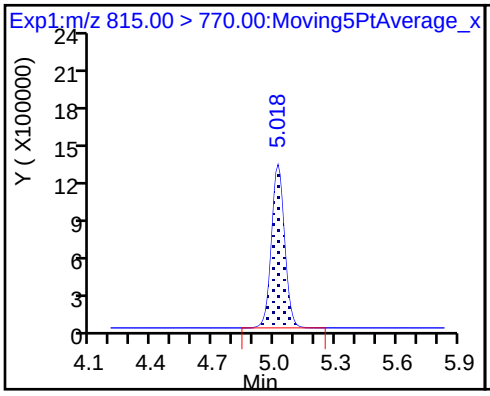
45 Perfluorohexadecanoic acid



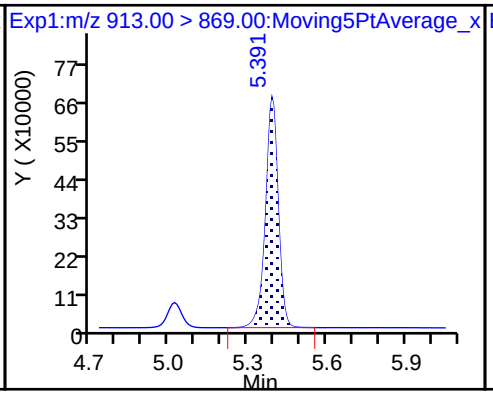
45 Perfluorohexadecanoic acid



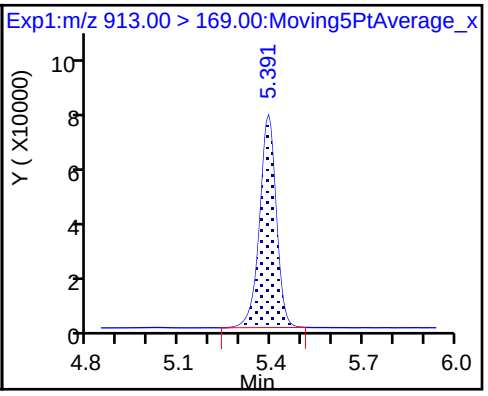
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

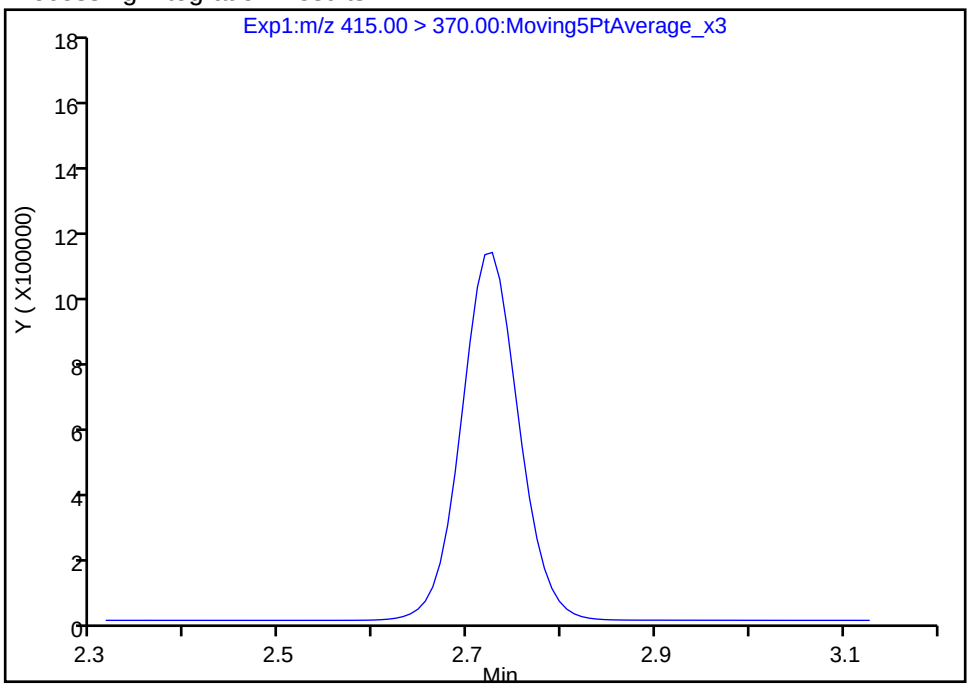
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180328-55950.b\2018.03.28LLDXD_010.d
Injection Date: 28-Mar-2018 19:15:15 Instrument ID: A8_N
Lims ID: LCSD 320-215106/3-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

* 62 13C2-PFOA, CAS: STL00623

Signal: 1

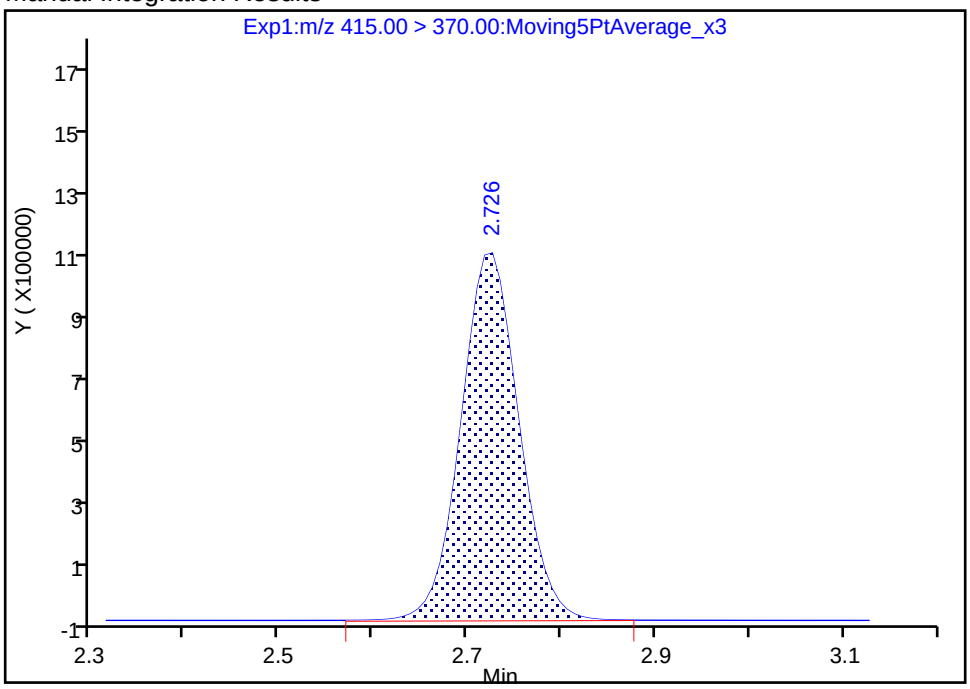
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 4813679
Amount: 2.500000
Amount Units: ng/ml



Reviewer: hannigana, 29-Mar-2018 07:39:36
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MS | Lab Sample ID: 320-37224-2 MS

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_041.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:32

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.00694		0.00049	0.000069
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.00497		0.00049	0.00019
307-24-4	Perfluorohexanoic acid (PFHxA)	0.00706		0.00049	0.00010
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.00706		0.00049	0.000071
335-67-1	Perfluorooctanoic acid (PFOA)	0.0228		0.00049	0.00021
375-95-1	Perfluorononanoic acid (PFNA)	0.0123		0.00049	0.000088
335-76-2	Perfluorodecanoic acid (PFDA)	0.0241		0.00049	0.000054
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.00932		0.00049	0.000088
307-55-1	Perfluorododecanoic acid (PFDoA)	0.00996		0.00049	0.00016
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	0.00668		0.00049	0.00013
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.00658		0.00049	0.00013
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00422		0.00049	0.000061
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00963		0.00049	0.000076
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00469		0.00049	0.000086
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0235		0.0012	0.00049
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.00456		0.00049	0.000096
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.00536		0.00049	0.00020
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0111		0.0049	0.00096
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00537		0.0049	0.00091
27619-97-2	6:2FTS	0.0118		0.0049	0.00037
39108-34-4	8:2FTS	0.00494		0.0049	0.00061

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MS | Lab Sample ID: 320-37224-2 MS

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_041.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.00(g) | Date Analyzed: 03/30/2018 18:32

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	47		25-150
STL01893	13C5 PFPeA	53		25-150
STL00993	13C2 PFHxA	55		25-150
STL01892	13C4-PFHpA	59		25-150
STL00990	13C4 PFOA	62		25-150
STL00995	13C5 PFNA	66		25-150
STL00996	13C2 PFDA	77		25-150
STL00997	13C2 PFUnA	82		25-150
STL00998	13C2 PFDoA	77		25-150
STL02116	13C2-PFTeDA	74		25-150
STL02337	13C3-PFBS	64		25-150
STL00994	18O2 PFHxS	65		25-150
STL00991	13C4 PFOS	69		25-150
STL01056	13C8 FOSA	59		25-150
STL02118	d3-NMeFOSAA	103		25-150
STL02117	d5-NEtFOSAA	112		25-150
STL02279	M2-6:2FTS	162	*	25-150
STL02280	M2-8:2FTS	218	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d
Lims ID: 320-37224-A-2-B MS
Client ID:
Sample Type: MS
Inject. Date: 30-Mar-2018 18:32:10 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-a-2-b ms
Misc. Info.: Plate: 1 Rack: 6
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:04:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.439	1.435	0.004	1.000	3808738	1.17		47.0	16091	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.439	1.442	-0.003	1.000	1994110	1.42		142	56.3	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.707	1.701	0.006	0.559	2821728	1.34		53.5	11642	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.707	1.703	0.004	1.000	1368768	1.01		101	56.4	M
D 47 13C3-PFBS										
301.90 > 83.00	1.734	1.737	-0.003	1.000	72153	1.49		64.2	368	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.743	1.739	0.004	1.005	2108718	0.8613		97.4	311	M
298.90 > 99.00	1.743	1.739	0.004	1.005	900346		2.34(1.25-3.74)		587	
D 60 M2-4:2FTS										
329.00 > 81.00	2.033	1.948	0.085	1.000	58970	0.1597		0.0	22.8	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.961	-0.005	1.000	1200570	2.24		240	15975	
D 7 13C2 PFHxA										
315.00 > 270.00	1.988	1.991	-0.003	1.000	3179846	1.37		54.7	30176	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.988	1.994	-0.006	1.000	1874787	1.44		144	239	
313.00 > 119.00	1.988	1.994	-0.006	1.000	163628		11.46(5.03-15.10)		451	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.011	2.016	-0.005	1.000	2131552	0.9647		103	1368	
349.00 > 99.00	2.011	2.016	-0.005	1.000	725919		2.94(1.36-4.07)		2204	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.095	-0.005	1.000	232380	NR		0.0	210	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.319	0.010	1.000	3305263	1.48		59.1	48148	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.322	0.007	1.000	2068204	1.44		144	551	
363.00 > 169.00	2.315	2.322	-0.007	0.994	772333		2.68(1.13-3.40)		1548	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.332	0.010	1.000	4301153	1.54		65.2	57490	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.336	-0.007	0.994	3990418	1.96		216	1287	
399.00 > 99.00	2.329	2.336	-0.007	0.994	1284887		3.11(1.50-4.49)		1265	
65 Adona										
377.00 > 251.00	2.368	2.374	-0.006	1.000	3746345	0.7903		79.0	31159	
377.00 > 85.00	2.368	2.374	-0.006	1.000	2235154		1.68(0.84-2.53)		6391	
D 12 M2-6:2FTS										
429.00 > 81.00	2.658	2.655	0.003	1.000	1991456	3.85		162	2826	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.658	2.668	-0.010	1.000	3775511	2.41		254	28160	
D 14 13C4 PFOA										
417.00 > 372.00	2.688	2.685	0.003	1.000	3409092	1.55		62.0	48622	
* 62 13C2-PFOA										
415.00 > 370.00	2.688	2.691	-0.003		5867214	2.50			77974	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.688	2.691	-0.003	1.000	7519223	4.65		465	1762	
413.00 > 169.00	2.688	2.691	-0.003	1.000	3990938		1.88(0.84-2.52)		10018	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.695	2.698	-0.003	1.000	1696399	0.9570		101	2452	
449.00 > 99.00	2.688	2.698	-0.010	0.997	444693		3.81(1.94-5.82)		1667	
D 18 13C4 PFOS										
503.00 > 80.00	3.056	3.051	0.005	1.000	3178915	1.64		68.6	6960	
D 19 13C5 PFNA										
468.00 > 423.00	3.056	3.051	0.005	1.000	3077128	1.65		66.1	47448	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.056	3.060	-0.004	1.000	7281946	4.79		516	4972	
499.00 > 99.00	3.056	3.060	-0.004	1.000	1609450		4.52(2.31-6.93)		4056	
20 Perfluorononanoic acid										
463.00 > 419.00	3.062	3.060	0.002	1.002	3186937	2.52		252	2125	
463.00 > 169.00	3.062	3.060	0.002	1.002	814417		3.91(1.90-5.69)		8502	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.269	3.273	-0.004	1.000	2280935	0.9171		98.4	19228	
D 21 13C8 FOSA										
506.00 > 78.00	3.393	3.388	0.005	1.000	4036669	1.47		59.0	43792	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.393	3.398	-0.005	1.000	1743352	1.09		109	19499	
D 26 M2-8:2FTS										
529.00 > 81.00	3.411	3.407	0.004	1.000	3142900	5.23		218	5427	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.402	3.407	-0.005	1.000	993253	0.9314		97.0	2810	
549.00 > 99.00	3.402	3.407	-0.005	1.000	345348		2.88(1.33-3.97)		1528	
D 23 13C2 PFDA										
515.00 > 470.00	3.421	3.416	0.005	1.000	3018674	1.92		76.8	49474	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.411	3.417	-0.006	1.000	1783836	1.01		105	38139	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.421	3.426	-0.005	1.000	5861057	4.91		491	6665	
513.00 > 169.00	3.421	3.426	-0.005	1.000	955395		6.13(2.36-7.09)		12506	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.570	3.574	-0.004	1.000	2169939	2.58		103	25441	
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.579	3.586	-0.007	1.003	2062261	2.25		225	1375	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.743	3.740	0.003	1.000	2463457	2.79		112	15094	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.733	3.740	-0.007	1.000	858637	0.9304		96.5	1495	
599.00 > 99.00	3.733	3.740	-0.007	1.000	281885		3.05(1.39-4.16)		1998	
D 30 13C2 PFUnA										
565.00 > 520.00	3.753	3.750	0.003	1.000	2630123	2.05		82.0	53682	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.753	3.751	0.002	1.003	989210	1.09		109	22138	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.753	3.751	0.002	1.000	1603609	1.90		190	1927	
563.00 > 169.00	3.753	3.751	0.002	1.000	382745		4.19(2.12-6.36)		4333	
35 MeFOSA										
512.00 > 169.00	3.889	3.875	0.014		20068	NC			25.0	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.910	3.918	-0.008	1.000	3218039	0.8336		88.5	35901	
D 36 13C2 PFDoA										
615.00 > 570.00	4.041	4.040	0.001	1.000	2759287	1.93		77.3	23682	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.041	4.050	-0.009	1.000	2422870	2.03		203	1298	
613.00 > 169.00	4.041	4.050	-0.009	1.000	615328		3.94(2.13-6.40)		3859	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.308	4.307	0.001	1.000	1738227	1.36		136	1066	
663.00 > 169.00	4.308	4.307	0.001	1.000	541142		3.21(1.25-3.76)		2125	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.542	4.544	-0.002	1.000	3353027	1.85		73.9	18346	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.542	4.553	-0.011	1.000	449236	1.34		134	2194	
713.00 > 219.00	4.542	4.553	-0.011	1.000	330159		1.36(0.71-2.13)		1336	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.965	4.959	0.006	1.000	4943936	1.76		70.6	9644	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.965	4.966	-0.001	1.000	2223749	1.17		117	871	
813.00 > 169.00	4.965	4.966	-0.001	1.000	352263		6.31(2.86-8.58)		1203	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.328	5.336	-0.008	1.000	1947136	0.99		99.2	831	
913.00 > 169.00	5.328	5.336	-0.008	1.000	240534		8.10(3.83-11.48)		886	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:36:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d

Injection Date: 30-Mar-2018 18:32:10 Instrument ID: A8_N

Lims ID: 320-37224-A-2-B MS

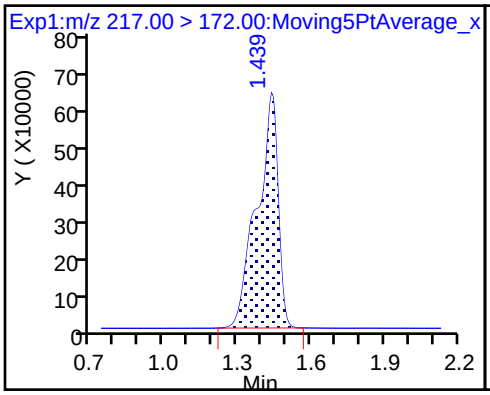
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 5

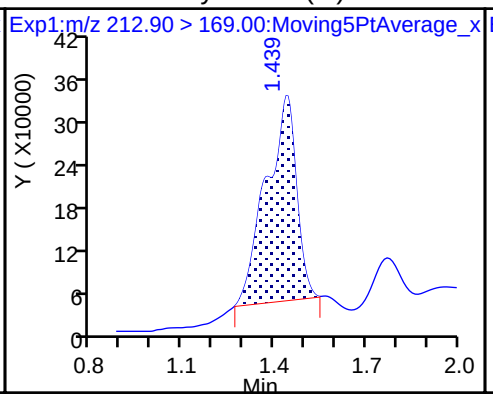
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

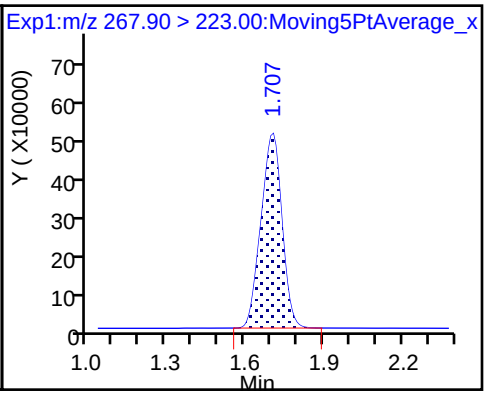
D 1 13C4 PFBA



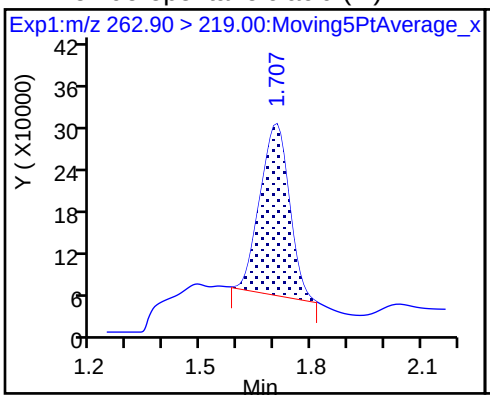
2 Perfluorobutyric acid (M)



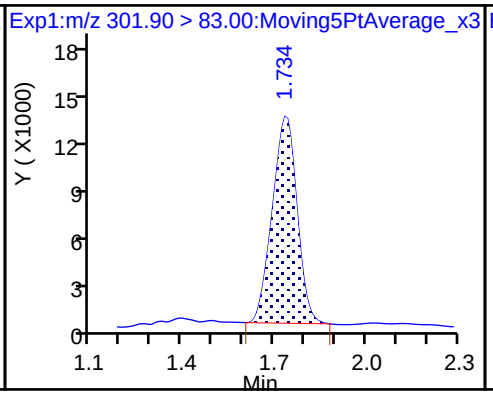
D 3 13C5-PFPeA



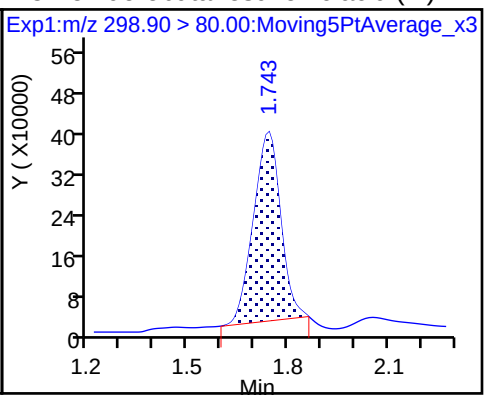
4 Perfluoropentanoic acid (M)



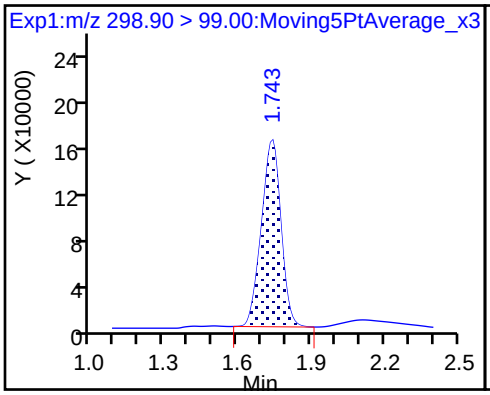
D 47 13C3-PFBS



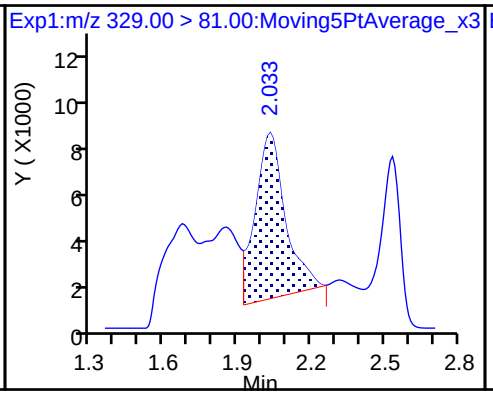
5 Perfluorobutanesulfonic acid (M)



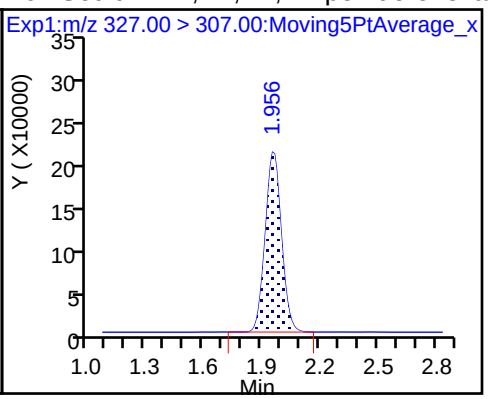
5 Perfluorobutanesulfonic acid



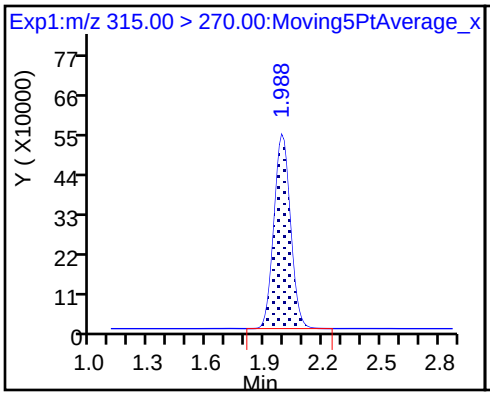
D 60 M2-4:2FTS



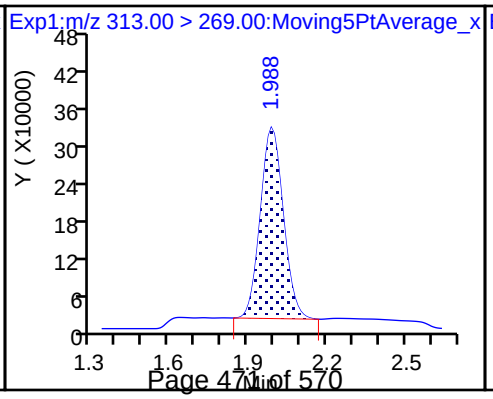
61 Sodium 1H,1H,2H,2H-perfluorohexane



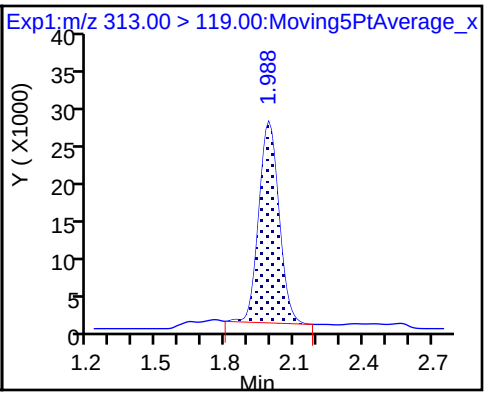
D 7 13C2 PFHxA



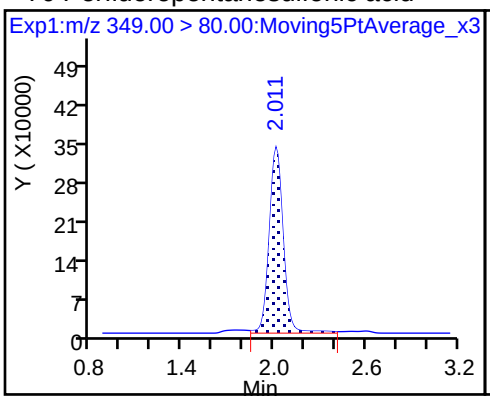
6 Perfluorohexanoic acid



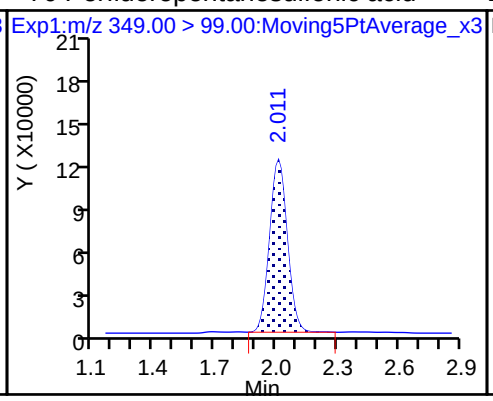
6 Perfluorohexanoic acid



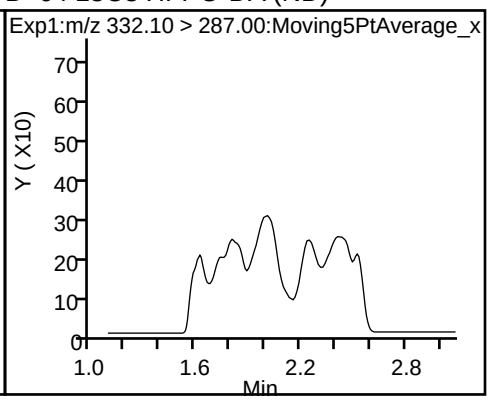
70 Perfluoropentanesulfonic acid



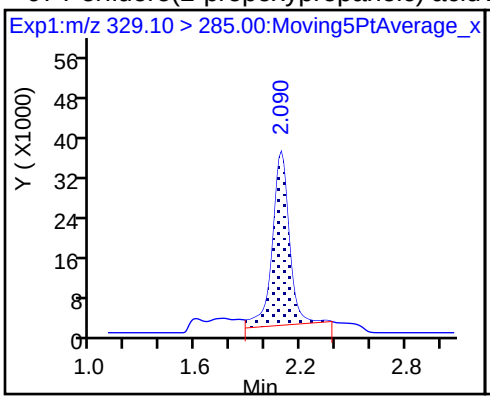
70 Perfluoropentanesulfonic acid



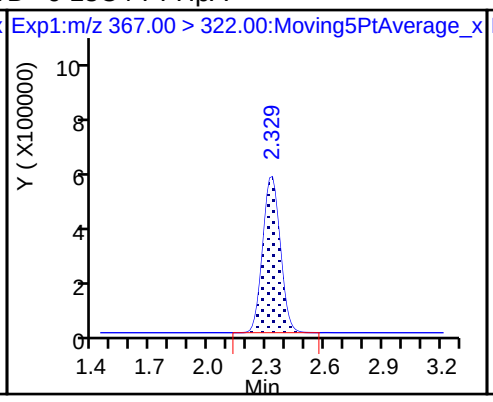
D 64 13C3 HFPO-DA (ND)



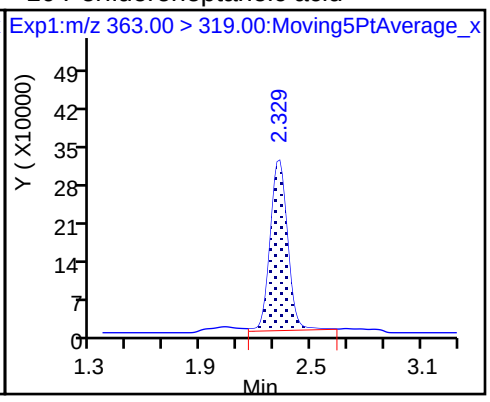
67 Perfluoro(2-propoxypropanoic) acid



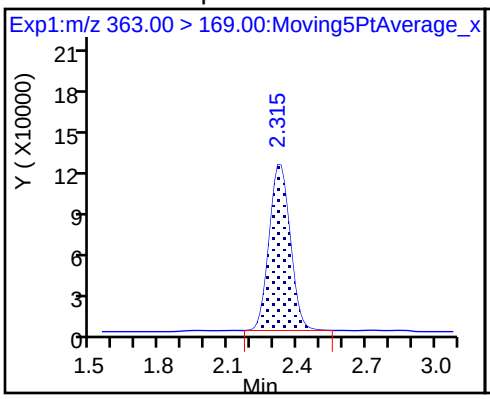
D 9 13C4-PFHpA



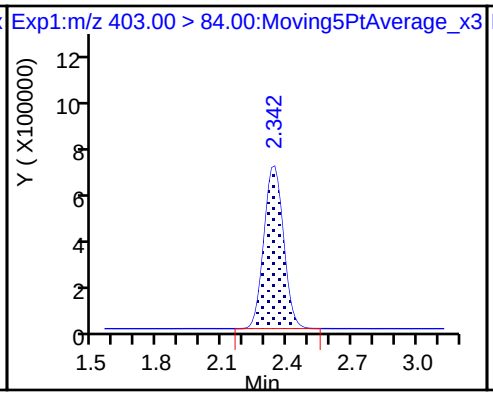
10 Perfluoroheptanoic acid



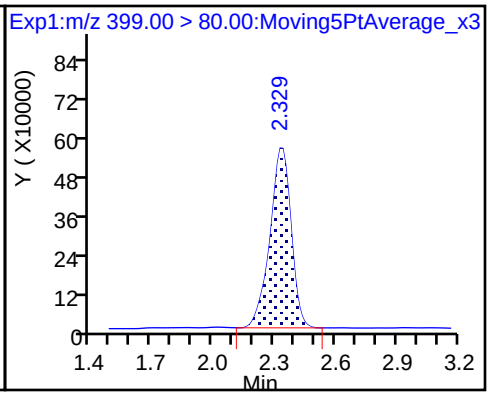
10 Perfluoroheptanoic acid



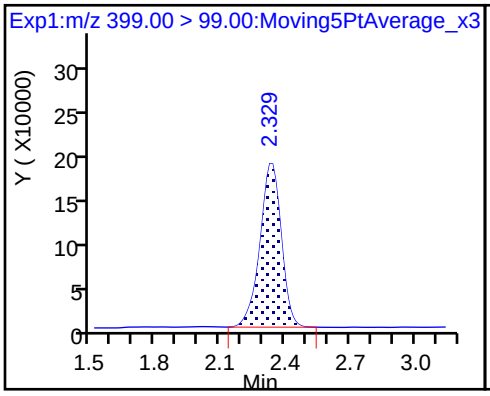
D 11 18O2 PFHxS



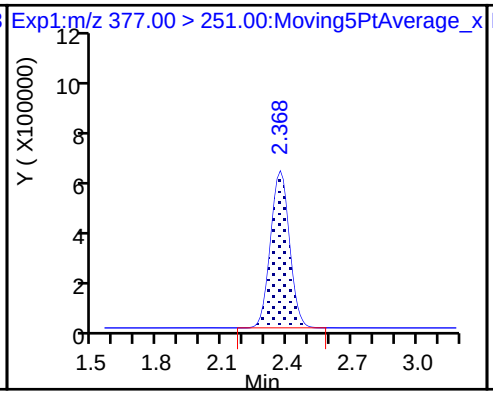
8 Perfluorohexanesulfonic acid



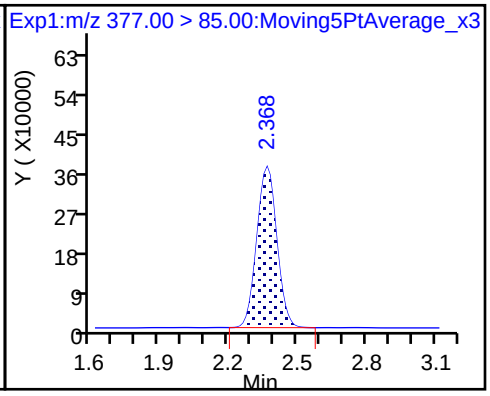
8 Perfluorohexanesulfonic acid



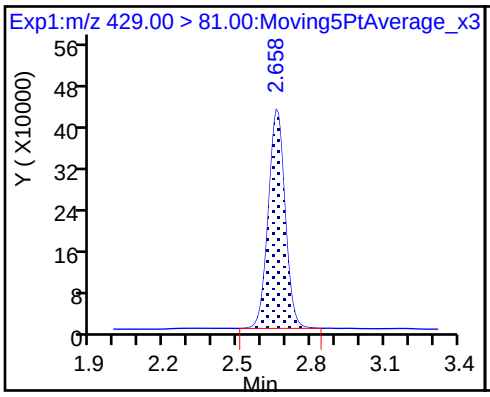
65 Adona



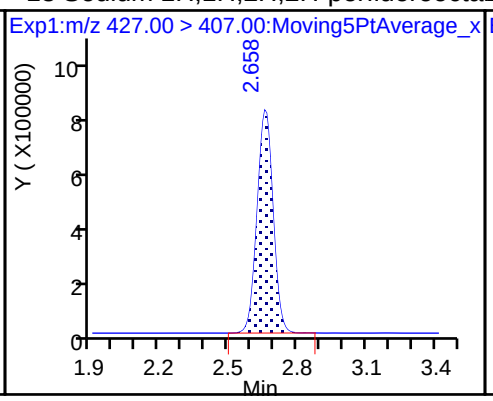
65 Adona



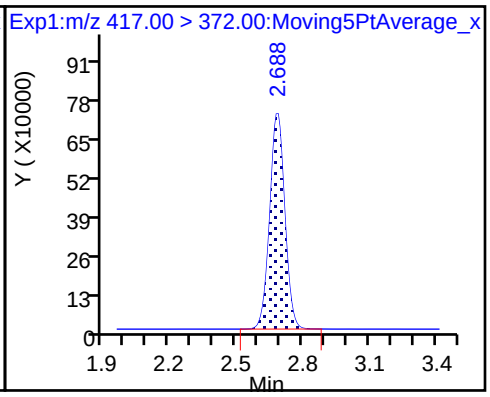
D 12 M2-6:2FTS



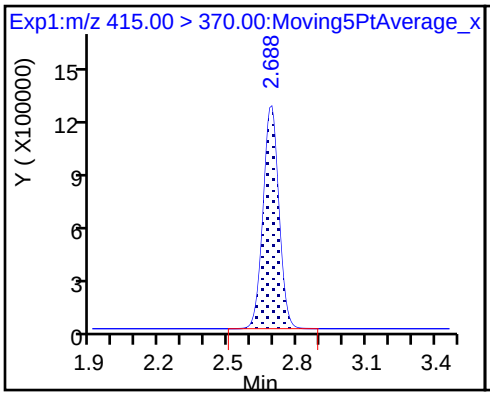
13 Sodium 1H,1H,2H,2H-perfluorooctane



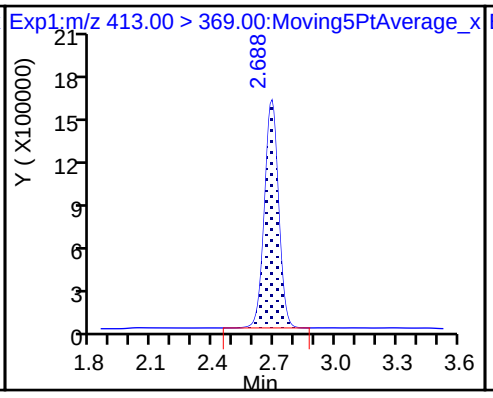
D 14 13C4 PFOA



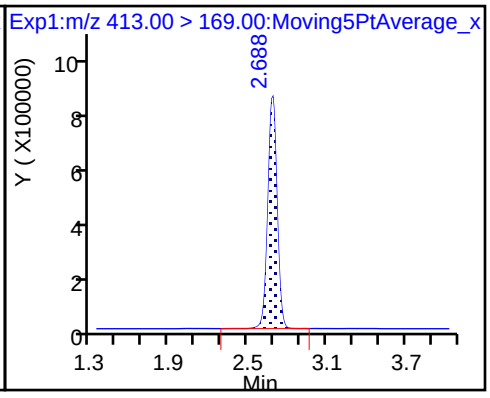
* 62 13C2-PFOA



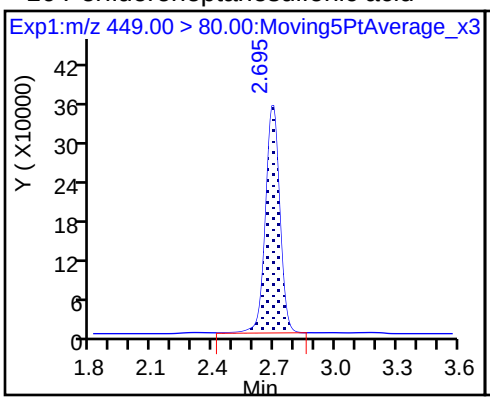
15 Perfluorooctanoic acid



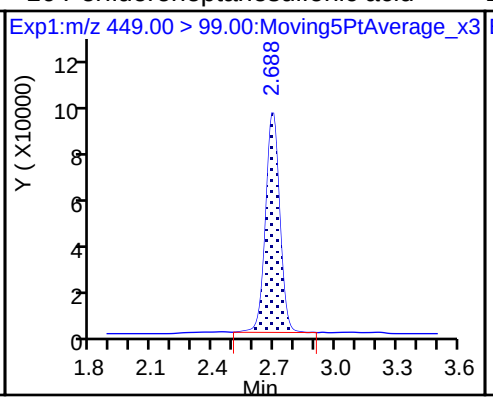
15 Perfluorooctanoic acid



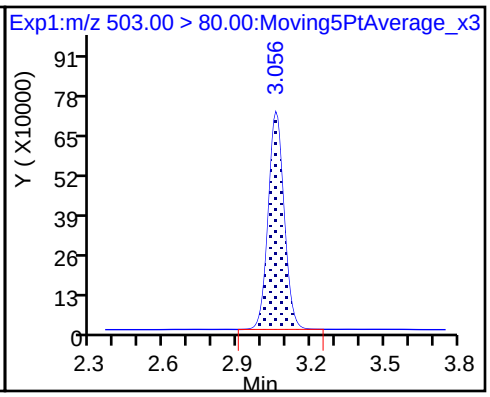
16 Perfluoroheptanesulfonic acid



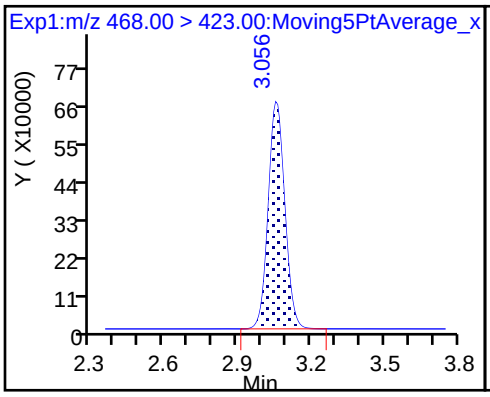
16 Perfluoroheptanesulfonic acid



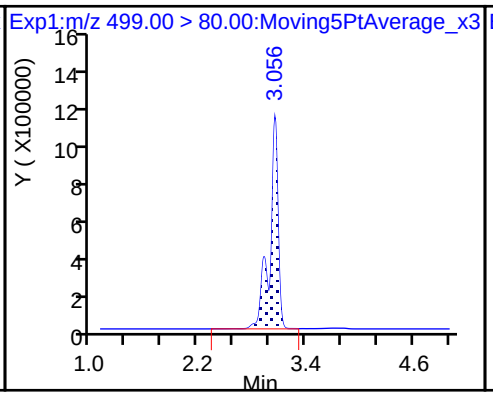
D 18 13C4 PFOS



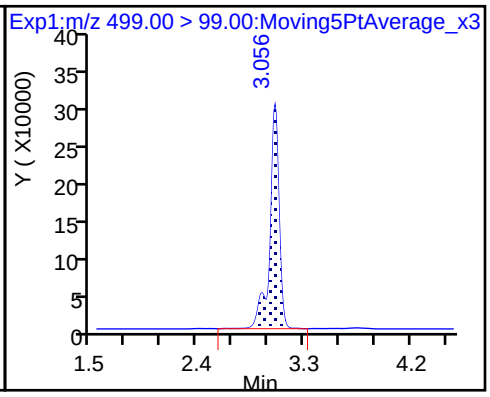
D 19 13C5 PFNA



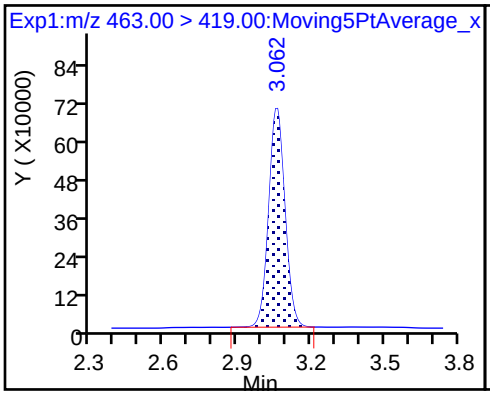
17 Perfluorooctane sulfonic acid



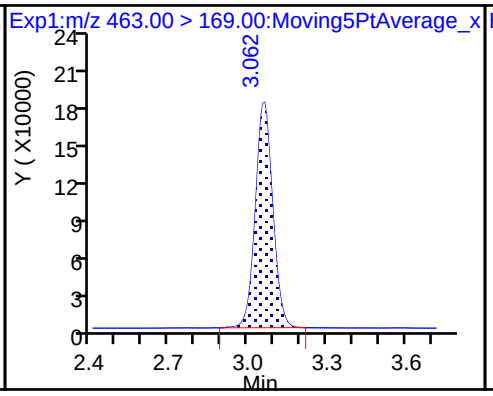
17 Perfluorooctane sulfonic acid



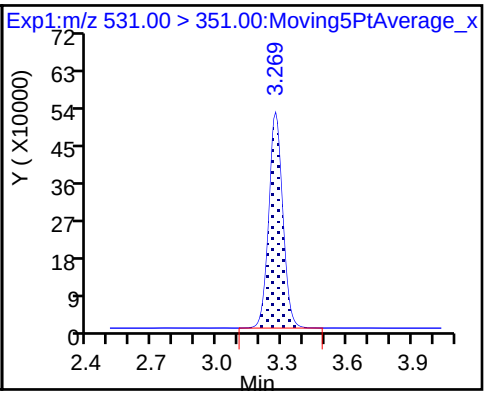
20 Perfluorononanoic acid



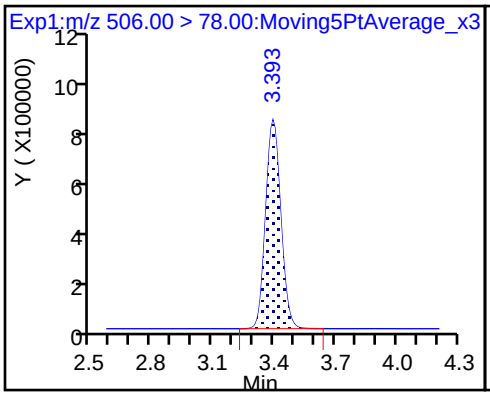
20 Perfluorononanoic acid



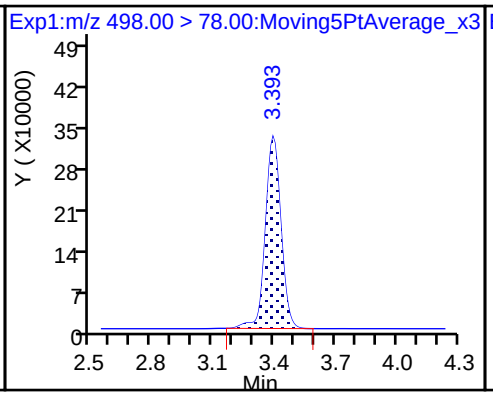
69 9-Chlorohexadecafluoro-3-oxanonane



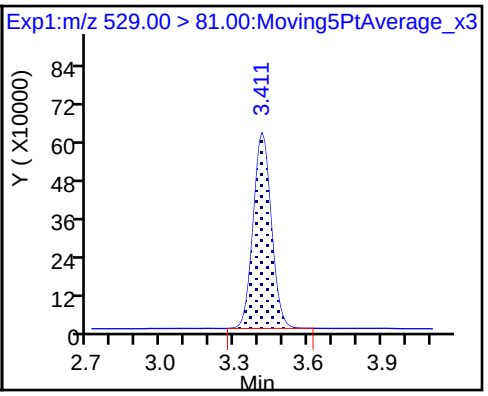
D 21 13C8 FOSA



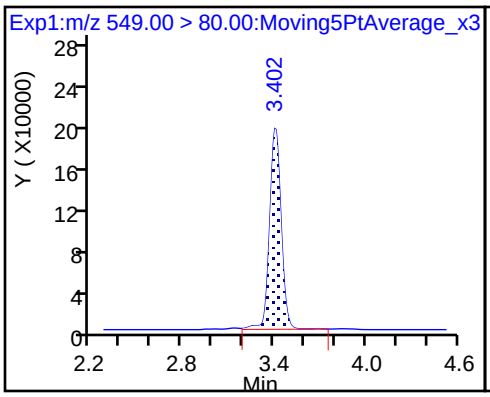
22 Perfluorooctane Sulfonamide



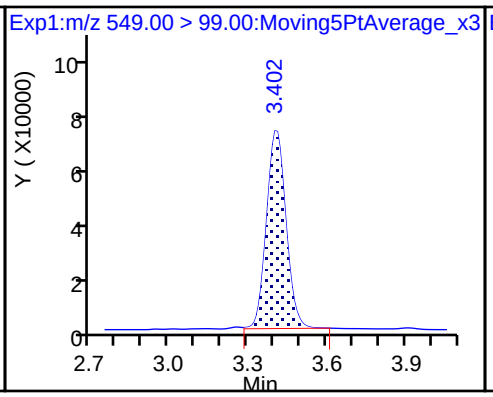
D 26 M2-8:2FTS



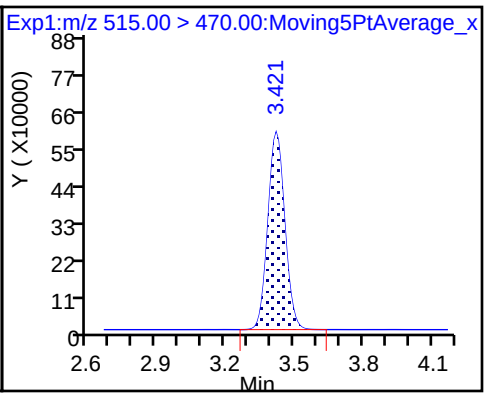
68 Perfluorononanesulfonic acid



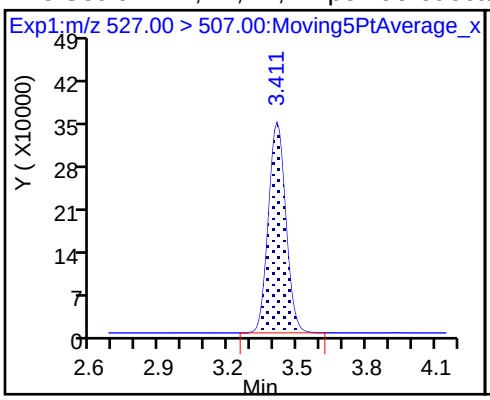
68 Perfluorononanesulfonic acid



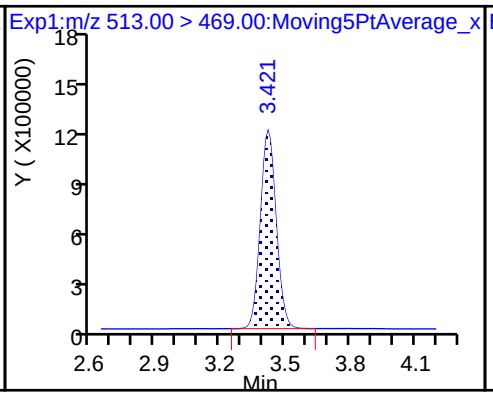
D 23 13C2 PFDA



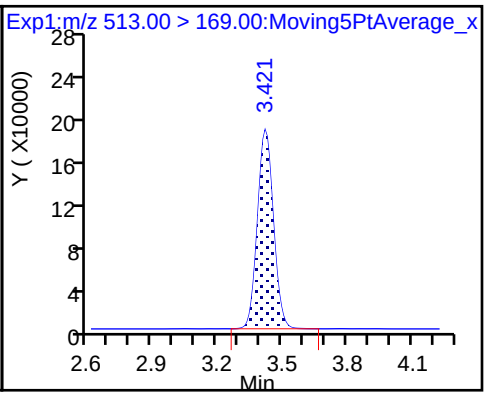
25 Sodium 1H,1H,2H,2H-perfluorodecane



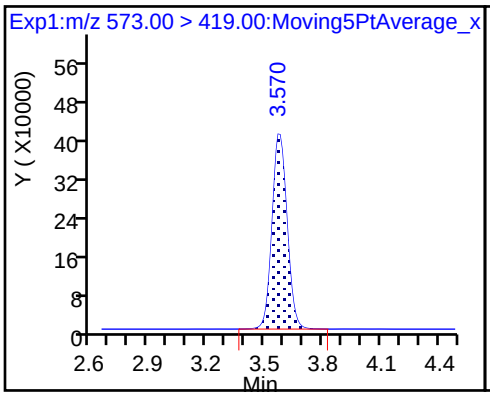
24 Perfluorodecanoic acid



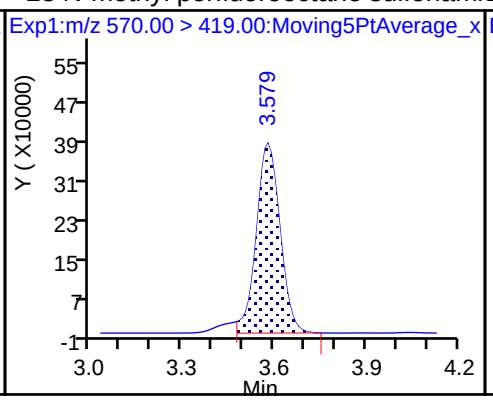
24 Perfluorodecanoic acid



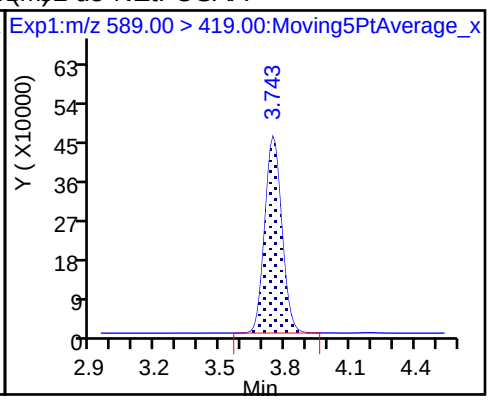
D 27 d3-NMeFOSAA



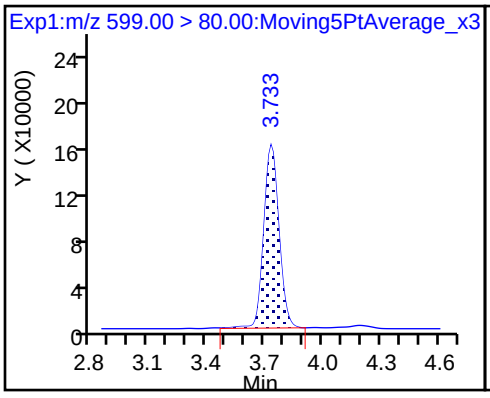
28 N-methyl perfluorooctane sulfonamid



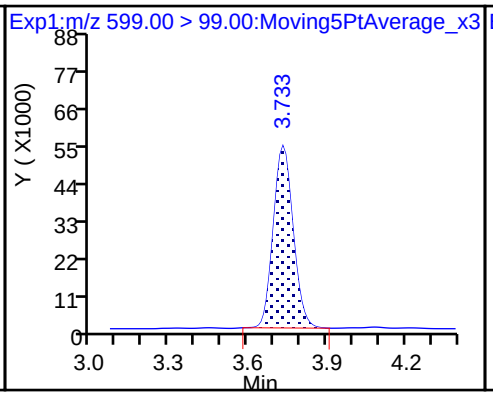
D M32 d5-NEtFOSAA



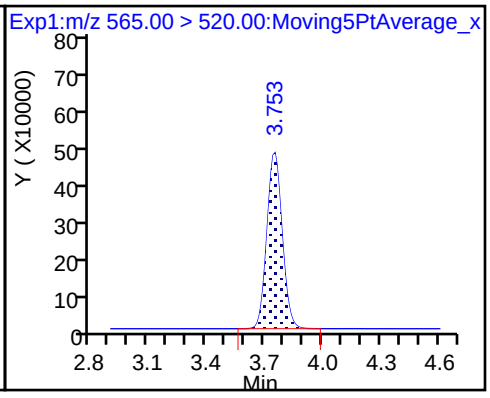
29 Perfluorodecane Sulfonic acid



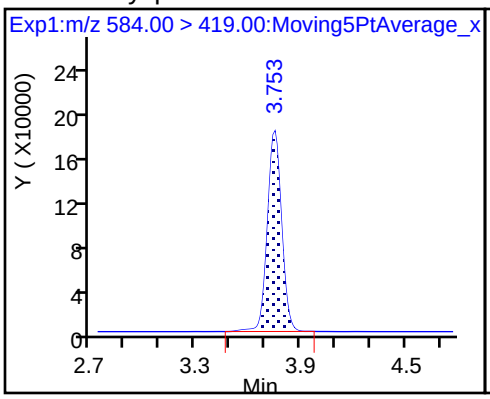
29 Perfluorodecane Sulfonic acid



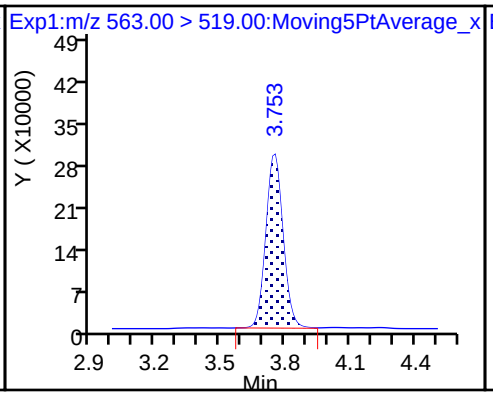
D 30 13C2 PFUnA



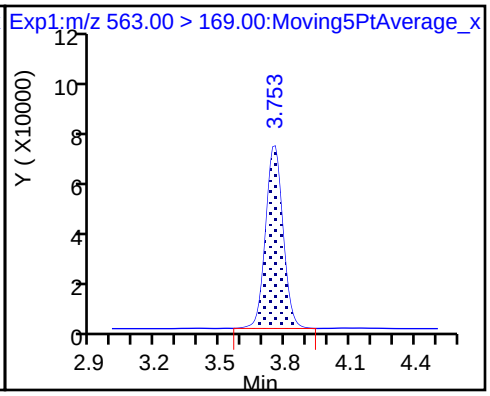
33 N-ethyl perfluorooctane sulfonamid



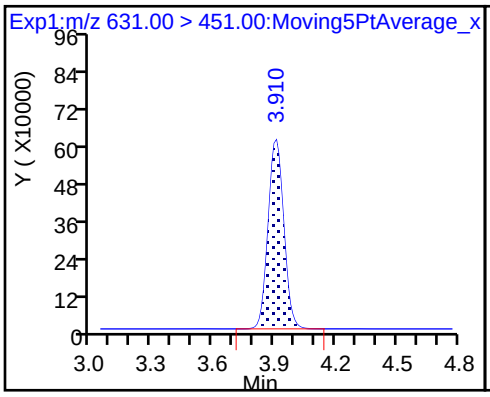
31 Perfluoroundecanoic acid



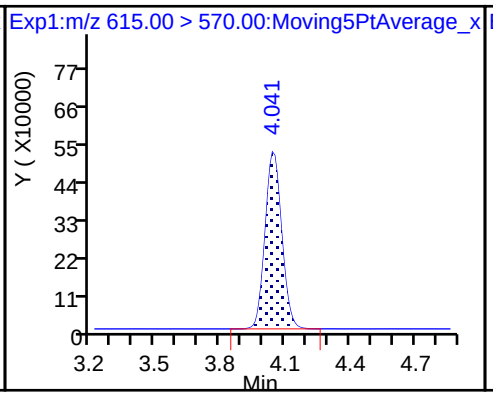
31 Perfluoroundecanoic acid



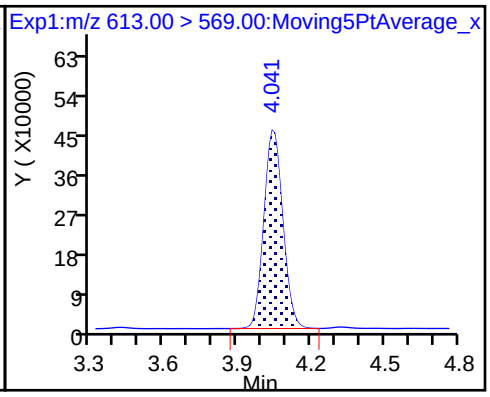
66 11-Chloroeicosafluoro-3-oxaundecan



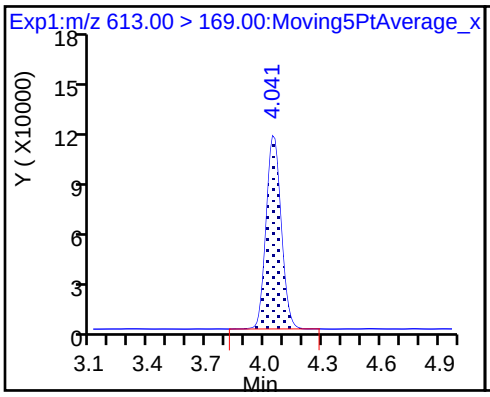
D 36 13C2 PFDoA



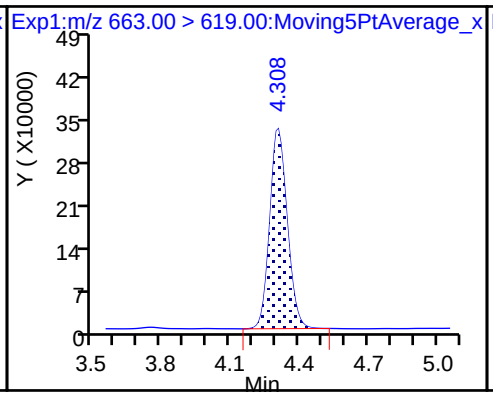
37 Perfluorododecanoic acid



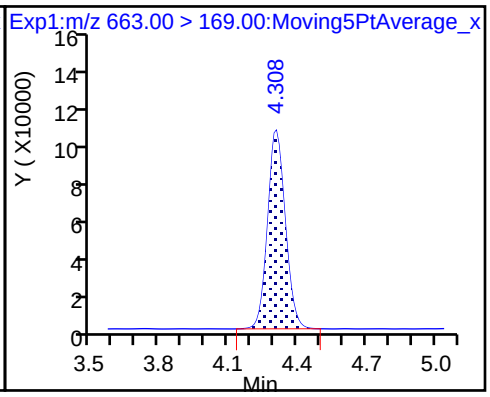
37 Perfluorododecanoic acid



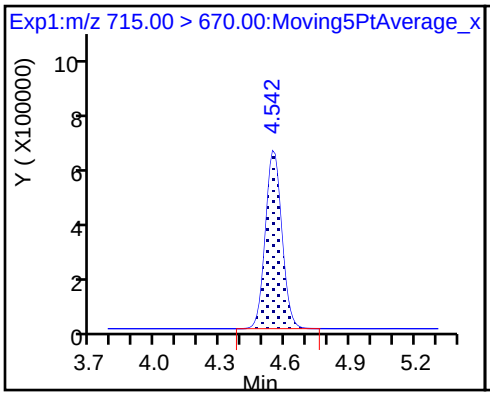
41 Perfluorotridecanoic acid



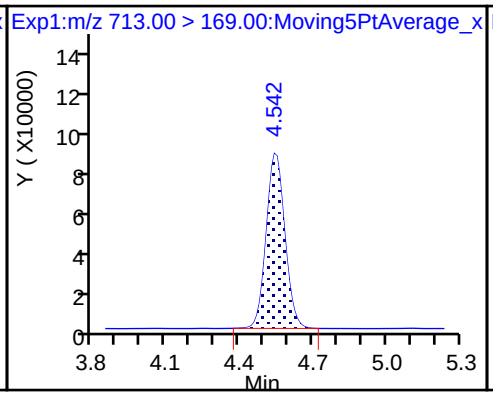
41 Perfluorotridecanoic acid



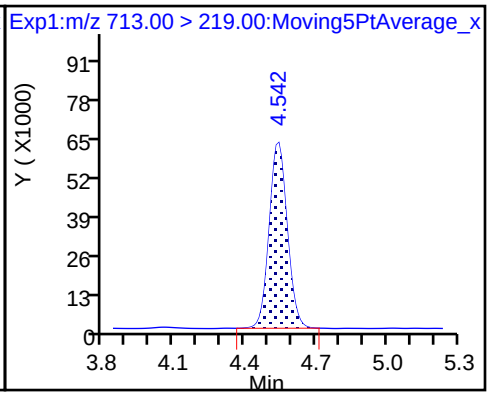
D 43 13C2-PFTeDA



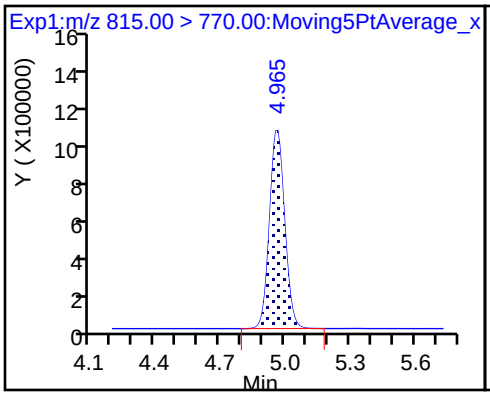
42 Perfluorotetradecanoic acid



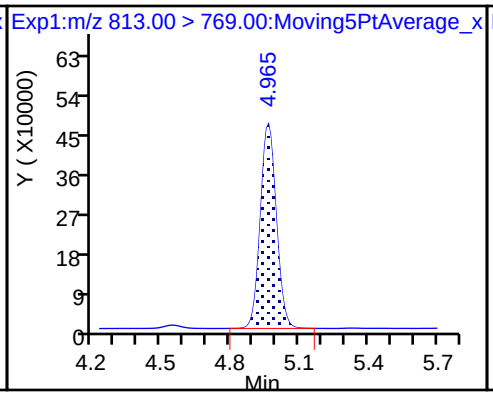
42 Perfluorotetradecanoic acid



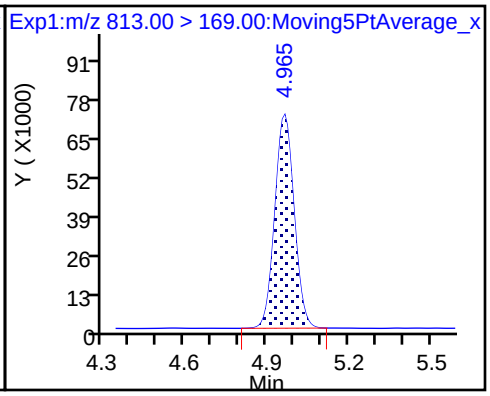
D 44 13C2-PFHxDA



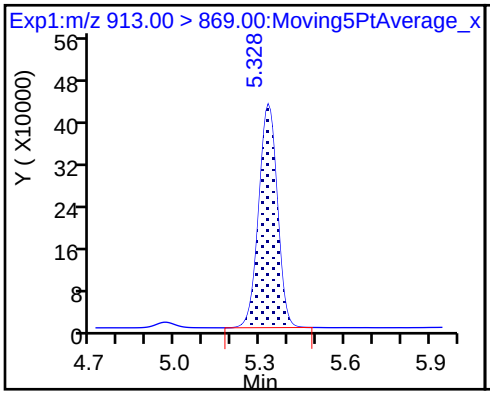
45 Perfluorohexadecanoic acid



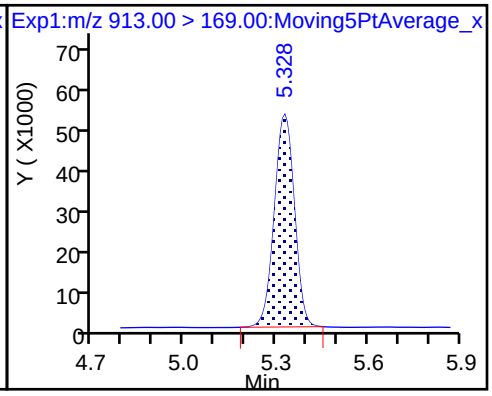
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

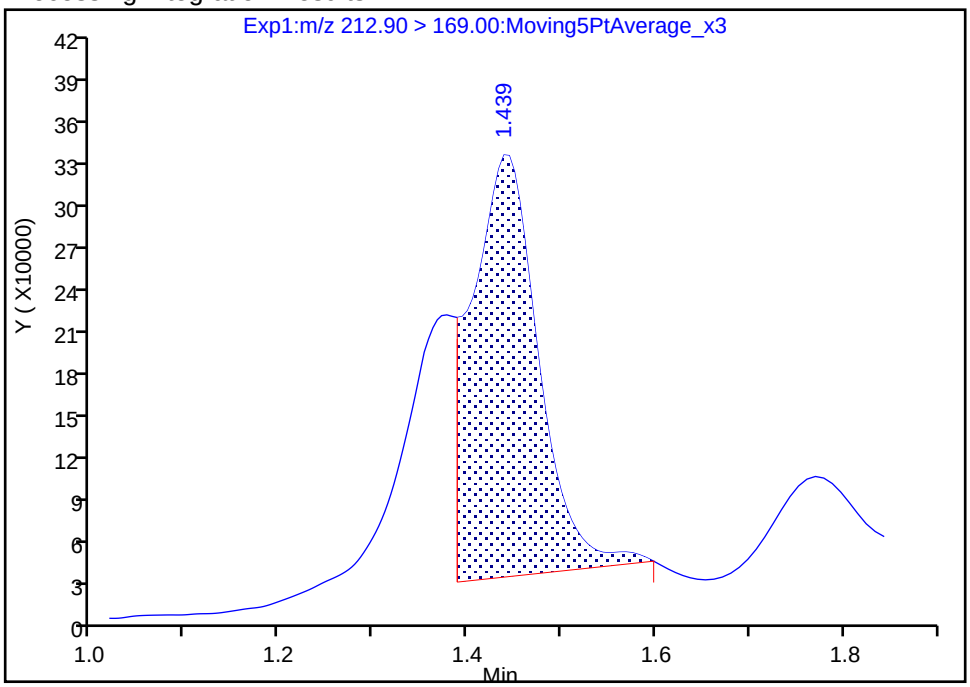
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d
Injection Date: 30-Mar-2018 18:32:10 Instrument ID: A8_N
Lims ID: 320-37224-A-2-B MS
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

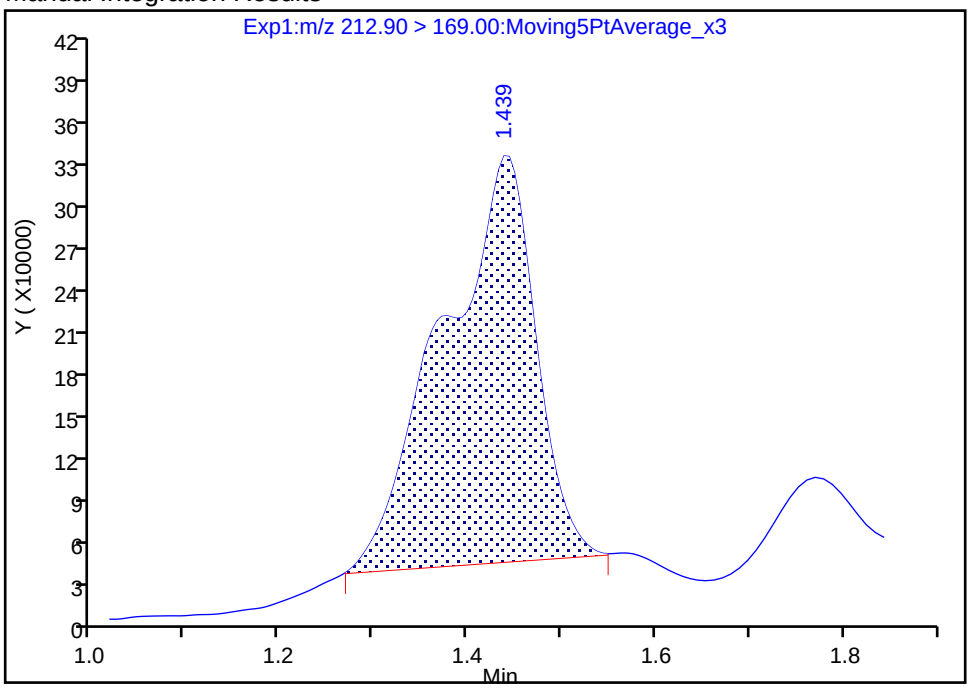
Processing Integration Results

RT: 1.44
Area: 1474170
Amount: 1.047010
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 1994110
Amount: 1.416290
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:01:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

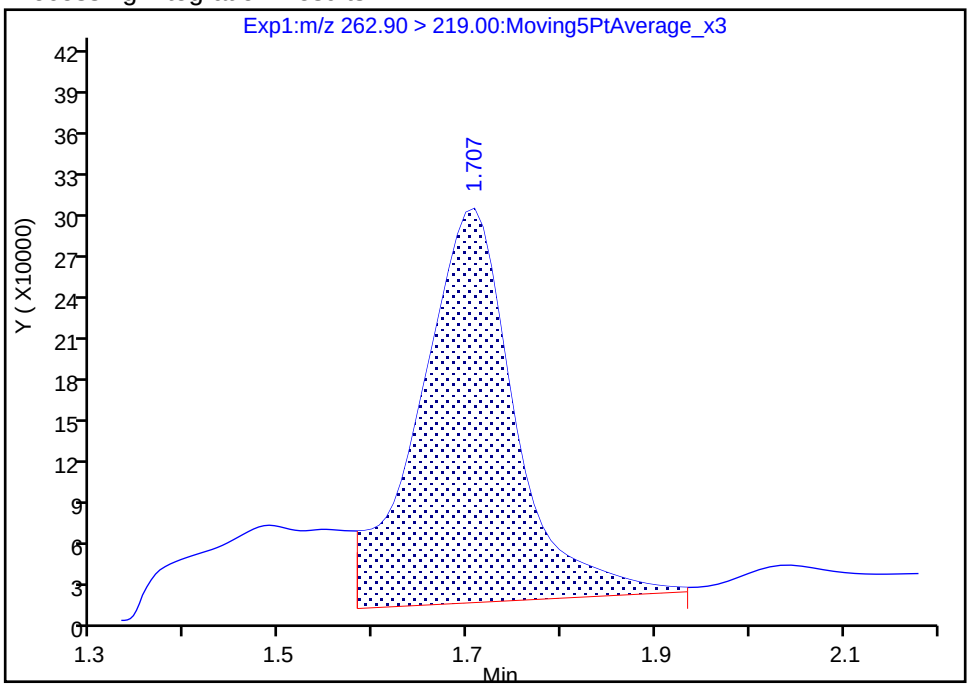
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d				
Injection Date:	30-Mar-2018 18:32:10	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-B MS				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

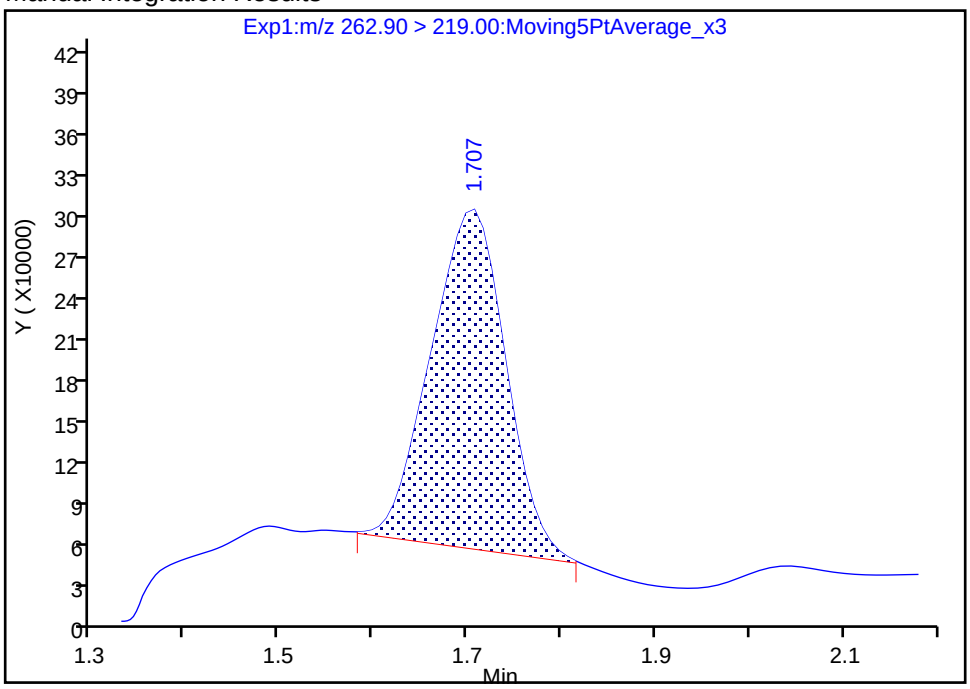
Processing Integration Results

RT: 1.71
Area: 2020415
Amount: 1.495562
Amount Units: ng/ml



Manual Integration Results

RT: 1.71
Area: 1368768
Amount: 1.013197
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:02:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

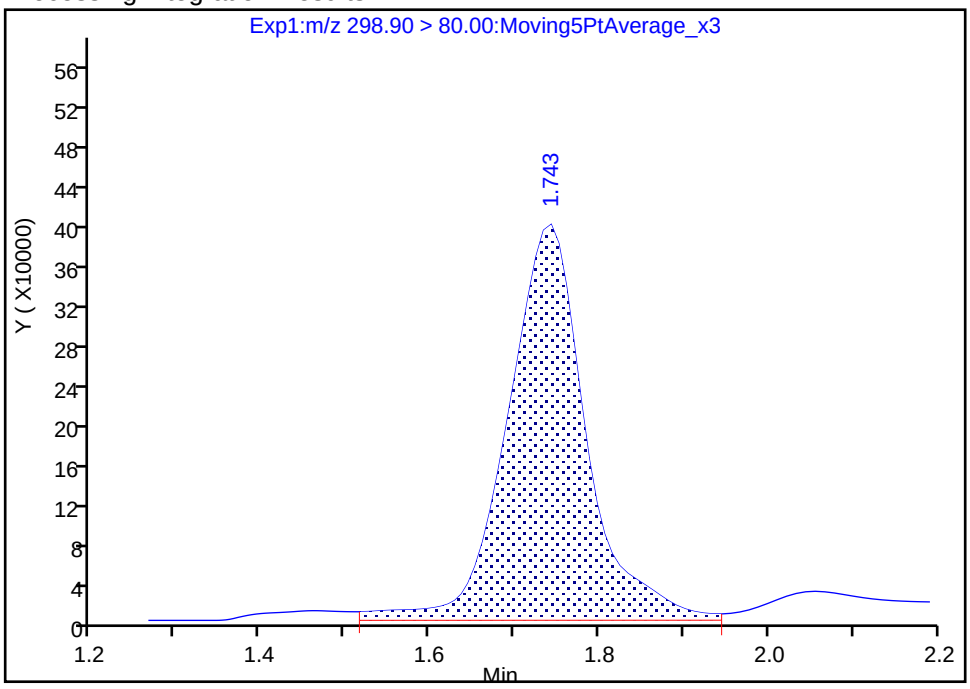
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d
Injection Date: 30-Mar-2018 18:32:10 Instrument ID: A8_N
Lims ID: 320-37224-A-2-B MS
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

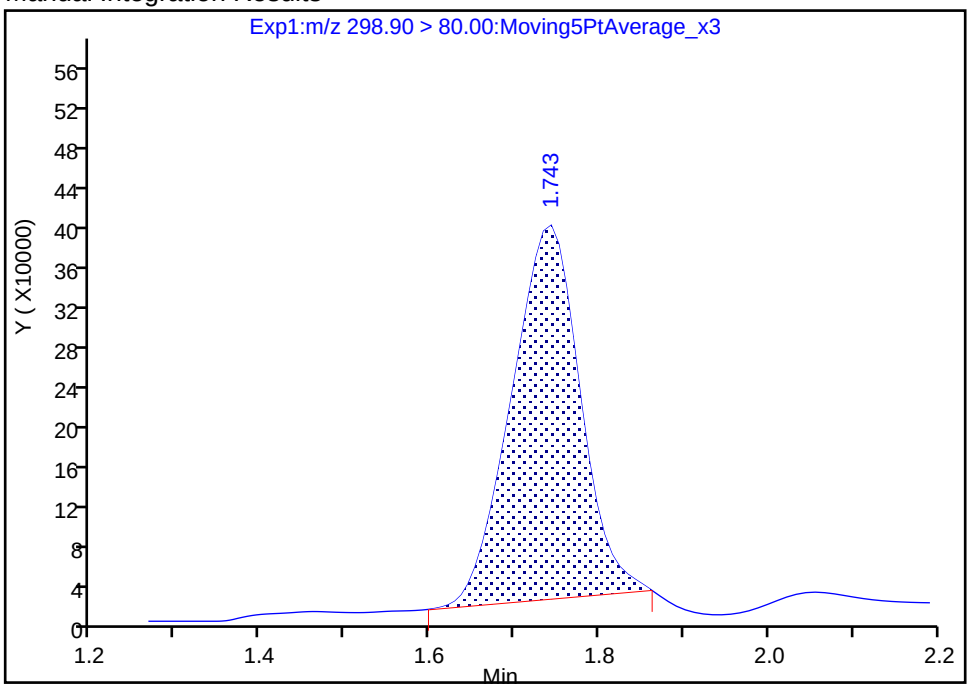
Processing Integration Results

RT: 1.74
Area: 2556488
Amount: 1.044190
Amount Units: ng/ml



Manual Integration Results

RT: 1.74
Area: 2108718
Amount: 0.861300
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:03:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

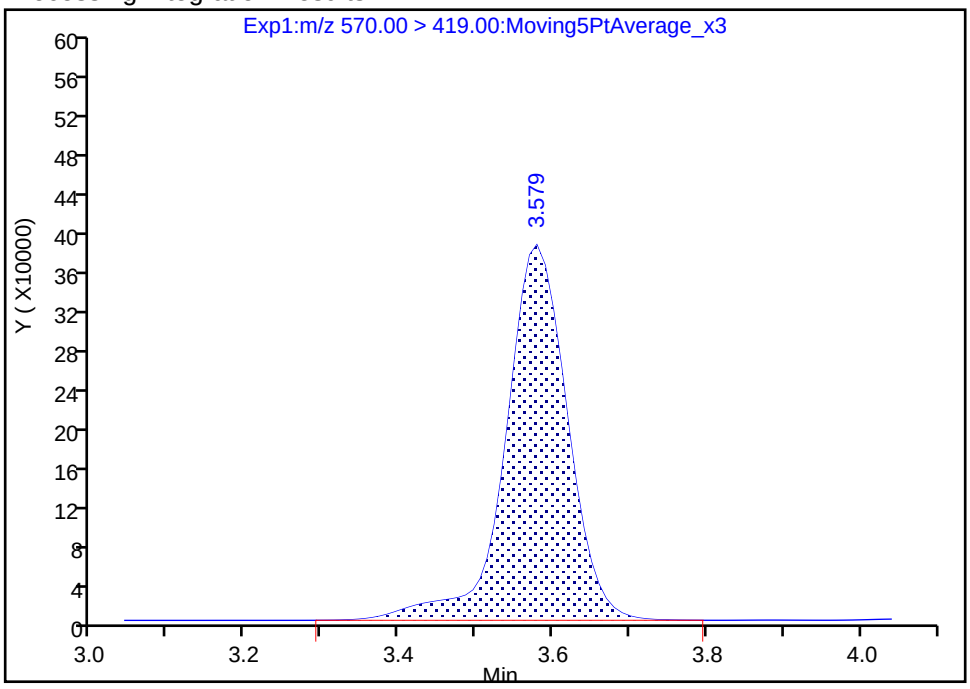
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_041.d
Injection Date: 30-Mar-2018 18:32:10 Instrument ID: A8_N
Lims ID: 320-37224-A-2-B MS
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

28 N-methyl perfluorooctane sulfonamidoacetic a, CAS: 2355-31-9

Signal: 1

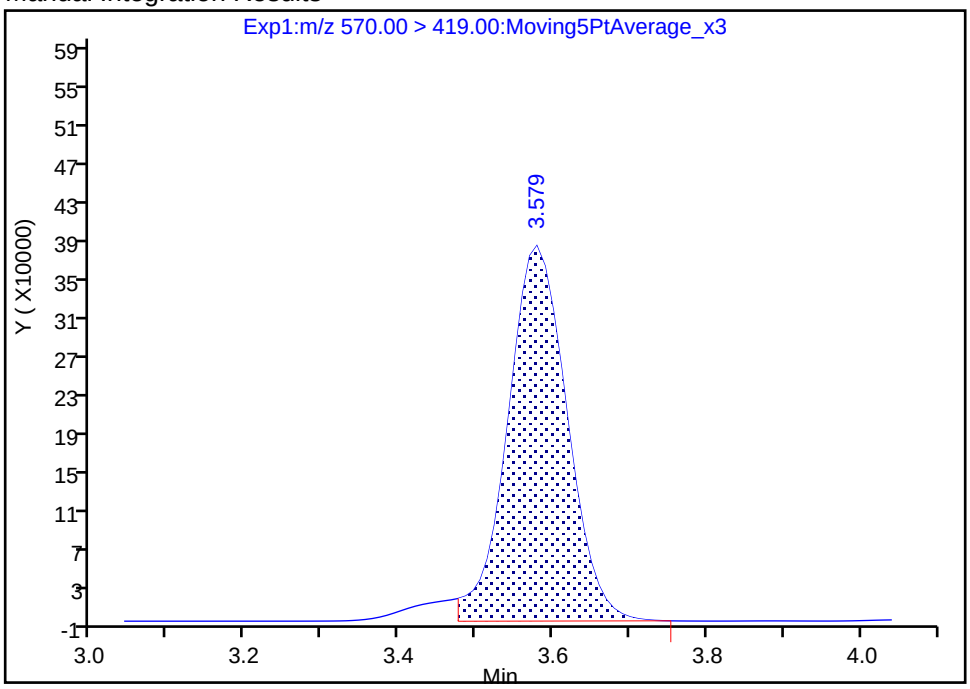
Processing Integration Results

RT: 3.58
Area: 2160421
Amount: 2.361233
Amount Units: ng/ml



Manual Integration Results

RT: 3.58
Area: 2062261
Amount: 2.253949
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:04:07
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MS RE | Lab Sample ID: 320-37224-2 MS RE

Matrix: Solid | Lab File ID: 2018.04.06LLA_010.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 04/02/2018 14:27

Sample wt/vol: 4.96(g) | Date Analyzed: 04/06/2018 14:39

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 216698 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	*6:2FTS*	*0.00485*	*J*	*0.0049*	*0.00037*

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2FTS	188	*	25-150

Report Date: 07-Apr-2018 11:31:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_010.d
Lims ID: 320-37224-A-2-E MS
Client ID:
Sample Type: MS
Inject. Date: 06-Apr-2018 14:39:27 ALS Bottle#: 4 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-A-2-E MS
Misc. Info.: Plate: 1 Rack: 5
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:31:31 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 07-Apr-2018 11:27:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.419	1.430	-0.011	1.000	2596249	2.48		248	18.6	M
D 1 13C4 PFBA										
217.00 > 172.00	1.419	1.430	-0.011	1.000	2835506	0.9693		38.8	11028	
D 3 13C5-PFPeA										
267.90 > 223.00	1.684	1.694	-0.010	0.560	2189607	1.15		46.0	4607	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.684	1.702	-0.018	1.000	1128198	1.08		108	20.4	M
D 47 13C3-PFBS										
301.90 > 83.00	1.720	1.730	-0.010	1.000	63671	1.46		62.8	34.5	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.720	1.738	-0.018	1.000	1903600	0.8811		99.7	160	M
298.90 > 99.00	1.720	1.738	-0.018	1.000	753691		2.53(1.25-3.74)		795	
D 60 M2-4:2FTS										
329.00 > 81.00	2.004	1.939	0.065	1.000	49456	0.1485		0.0	13.9	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.938	1.949	-0.011	1.000	1174615	2.49		266	10226	
D 7 13C2 PFHxA										
315.00 > 270.00	1.959	1.971	-0.012	1.000	2612987	1.24		49.8	17115	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.970	1.981	-0.011	1.005	2013679	1.88		188	155	M
313.00 > 119.00	1.959	1.981	-0.022	1.000	146397		13.75(5.03-15.10)		216	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	1.981	2.003	-0.022	1.000	1767106	0.9063		96.6	525	M
349.00 > 99.00	1.981	2.003	-0.022	1.000	631028		2.80(1.36-4.07)		1487	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.004	2.072	-0.068	1.000	4105	0.0393		0.0	18.3	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.049	2.082	-0.033	1.023	284124	NR		0.0	112	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.294	2.306	-0.012	1.000	1894034	1.55		155	194	
363.00 > 169.00	2.281	2.306	-0.025	0.994	708159		2.67(1.13-3.40)		1723	
D 9 13C4-PFHpA										
367.00 > 322.00	2.294	2.308	-0.014	1.000	2815981	1.40		55.8	25960	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.294	2.319	-0.025	0.994	2908234	1.51		166	526	
399.00 > 99.00	2.294	2.319	-0.025	0.994	915297		3.18(1.50-4.49)		630	
D 11 18O2 PFHxS										
403.00 > 84.00	2.307	2.321	-0.014	1.000	4069439	1.62		68.4	29927	
65 Adona										
377.00 > 251.00	2.333	2.345	-0.012	1.000	2776748	0.6227		62.3	9575	
377.00 > 85.00	2.333	2.345	-0.012	1.000	1733202		1.60(0.84-2.53)		2951	
D 12 M2-6:2FTS										
429.00 > 81.00	2.610	2.629	-0.019	1.000	2086281	4.47		188	1646	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.610	2.636	-0.026	1.000	1608300	0.9803		103	11173	
* 62 13C2-PFOA										
415.00 > 370.00	2.643	2.660	-0.017		5291786	2.50			62936	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.643	2.660	-0.017	1.000	5549593	3.84		384	644	
413.00 > 169.00	2.643	2.660	-0.017	1.000	3052238		1.82(0.84-2.52)		7246	
D 14 13C4 PFOA										
417.00 > 372.00	2.643	2.660	-0.017	1.000	3050063	1.54		61.5	49343	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.651	2.667	-0.016	1.000	1529210	0.9170		96.3	1403	
449.00 > 99.00	2.651	2.667	-0.016	1.000	392977		3.89(1.94-5.82)		1048	
D 18 13C4 PFOS										
503.00 > 80.00	3.006	3.021	-0.015	1.000	2990549	1.71		71.6	3881	
D 19 13C5 PFNA										
468.00 > 423.00	3.006	3.028	-0.022	1.000	2987060	1.78		71.2	52455	
20 Perfluorononanoic acid										
463.00 > 419.00	3.006	3.030	-0.024	1.000	2519366	2.05		205	1014	
463.00 > 169.00	3.006	3.030	-0.024	1.000	622686		4.05(1.90-5.69)		6706	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.006	3.030	-0.024	1.000	8888853	6.22		670	163	M
499.00 > 99.00	3.006	3.030	-0.024	1.000	1931134		4.60(2.31-6.93)		35154	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.218	3.238	-0.020	1.000	2089631	0.8931		95.8	6715	
D 21 13C8 FOSA										
506.00 > 78.00	3.354	3.356	-0.002	1.000	3416399	1.38		55.4	44465	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.363	3.368	-0.005	1.003	1498819	1.11		111	1551	
D 26 M2-8:2FTS										
529.00 > 81.00	3.354	3.374	-0.020	1.000	3275033	6.04		252	2855	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.354	3.378	-0.024	1.000	927817	0.9248		96.3	709	
549.00 > 99.00	3.354	3.378	-0.024	1.000	337879		2.75(1.33-3.97)		1956	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.354	3.378	-0.024	1.000	1809759	0.9812		102	25275	
D 23 13C2 PFDA										
515.00 > 470.00	3.363	3.384	-0.021	1.000	2867471	2.02		80.9	49241	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.363	3.387	-0.024	1.000	4183743	3.69		369	2229	
513.00 > 169.00	3.363	3.387	-0.024	1.000	783245		5.34(2.36-7.09)		8072	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.522	3.542	-0.020	1.000	1495498	1.97		78.9	3523	
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.522	3.546	-0.024	1.000	2188405	3.47		347	969	M
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.679	3.696	-0.017	1.000	774957	0.8927		92.6	682	
599.00 > 99.00	3.679	3.696	-0.017	1.000	255443		3.03(1.39-4.16)		1955	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.689	3.711	-0.022	1.000	1674757	2.10		84.2	3337	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.689	3.717	-0.028	1.000	694806	1.13		113	11983	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.689	3.717	-0.028	1.000	1558564	1.94		194	1207	
563.00 > 169.00	3.689	3.717	-0.028	1.000	342976		4.54(2.12-6.36)		4139	
D 30 13C2 PFUnA										
565.00 > 520.00	3.689	3.722	-0.033	1.000	2505150	2.16		86.6	36725	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.846	3.874	-0.028	1.000	2996522	0.8251		87.6	17262	
35 MeFOSA										
512.00 > 169.00	3.868	3.875	-0.007		48242	NC			46.3	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	4.007	-0.018	1.000	2217231	1.99		199	682	
613.00 > 169.00	3.989	4.007	-0.018	1.000	555486		3.99(2.13-6.40)		2894	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	4.011	-0.022	1.000	2582460	2.00		80.2	22333	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.243	4.270	-0.027	1.000	1284647	1.08		108	479	
663.00 > 169.00	4.243	4.270	-0.027	1.000	399796		3.21(1.25-3.76)		1811	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.480	4.511	-0.031	1.000	386422	1.35		135	1846	
713.00 > 219.00	4.480	4.511	-0.031	1.000	268296		1.44(0.71-2.13)		876	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.480	4.513	-0.033	1.000	2859476	1.75		69.9	13486	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.922	-0.026	1.000	1816002	1.04		104	481	
813.00 > 169.00	4.896	4.922	-0.026	1.000	292798		6.20(2.86-8.58)		749	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.933	-0.037	1.000	4527322	1.79		71.7	8951	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.240	5.277	-0.037	1.000	1794197	1.00		99.8	562	
913.00 > 169.00	5.240	5.277	-0.037	1.000	224232		8.00(3.83-11.48)		692	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:31:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_010.d

Injection Date: 06-Apr-2018 14:39:27 Instrument ID: A8_N

Lims ID: 320-37224-A-2-E MS

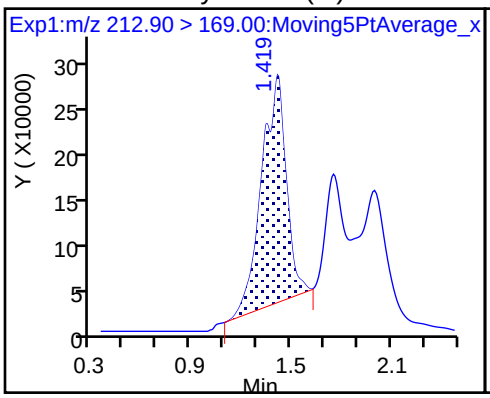
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 8

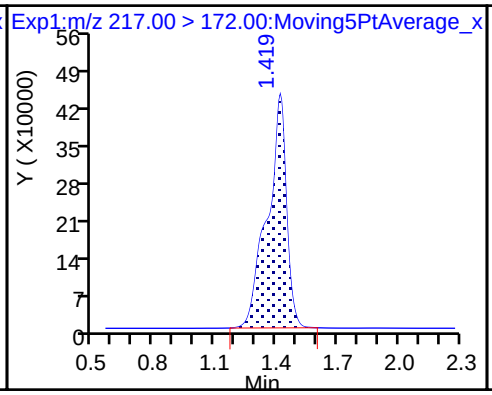
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

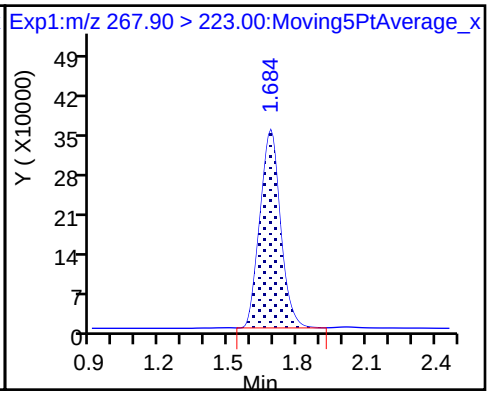
2 Perfluorobutyric acid (M)



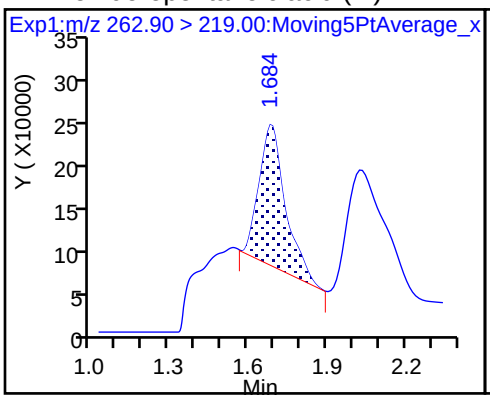
D 1 13C4 PFBA



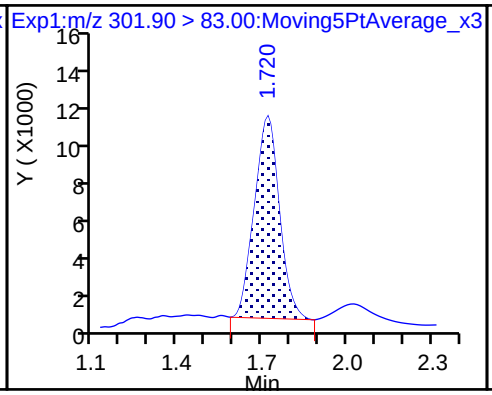
D 3 13C5-PFPeA



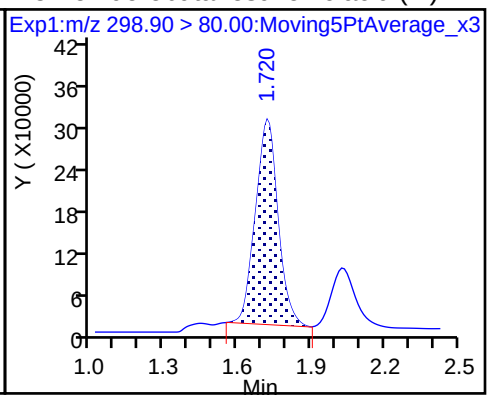
4 Perfluoropentanoic acid (M)



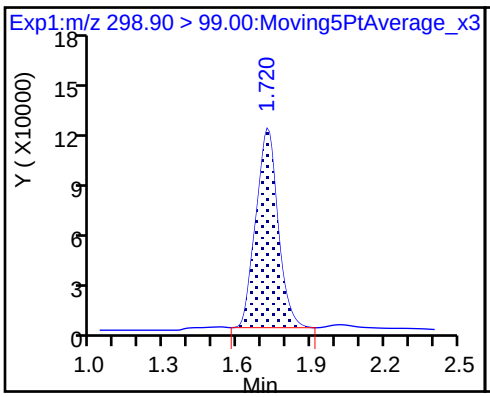
D 47 13C3-PFBS



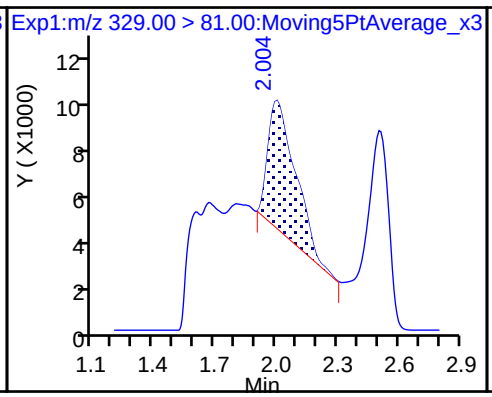
5 Perfluorobutanesulfonic acid (M)



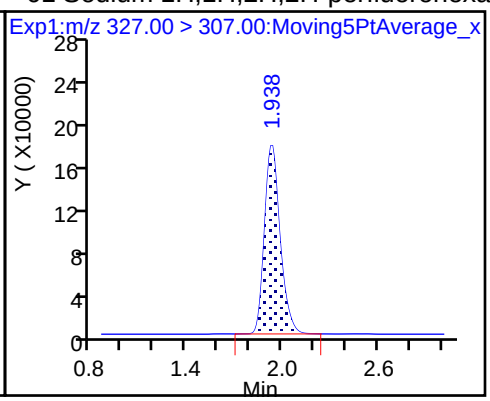
5 Perfluorobutanesulfonic acid



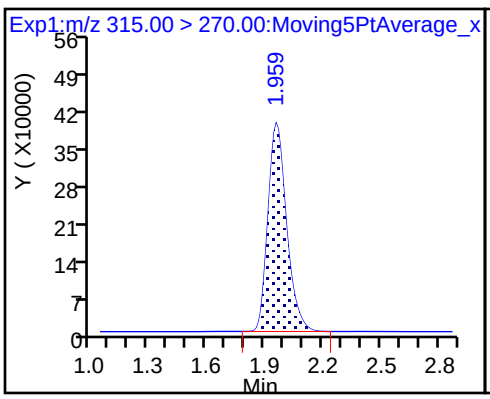
D 60 M2-4:2FTS



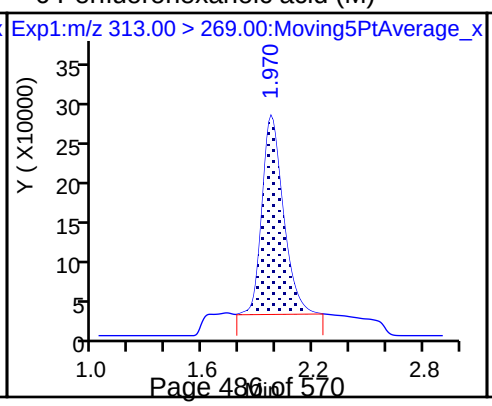
61 Sodium 1H,1H,2H,2H-perfluorohexane



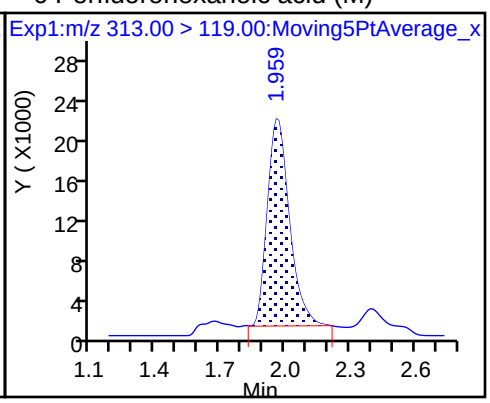
D 7 13C2 PFHxA



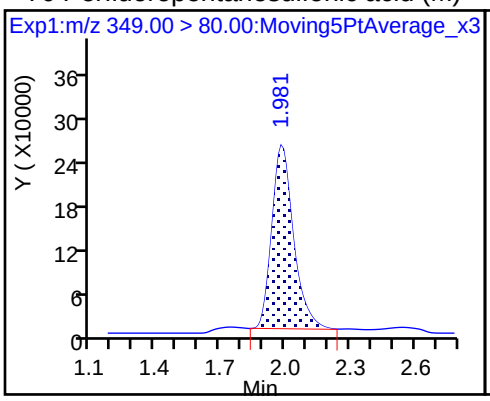
6 Perfluorohexanoic acid (M)



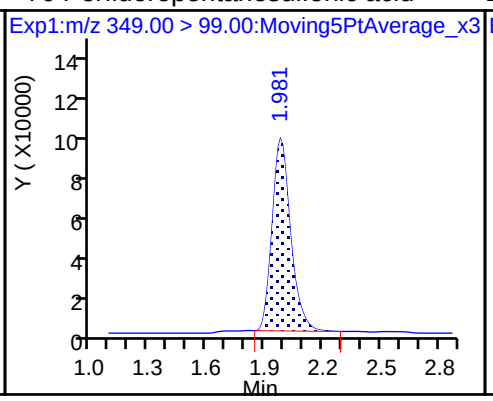
6 Perfluorohexanoic acid (M)



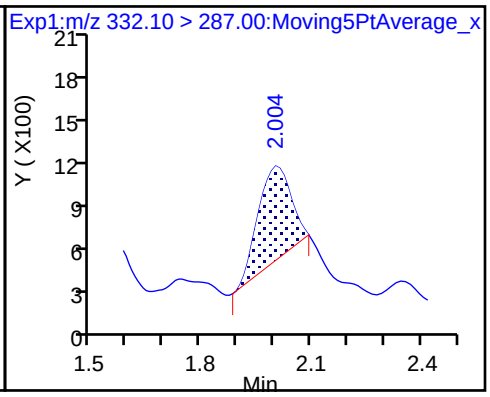
70 Perfluoropentanesulfonic acid (M)



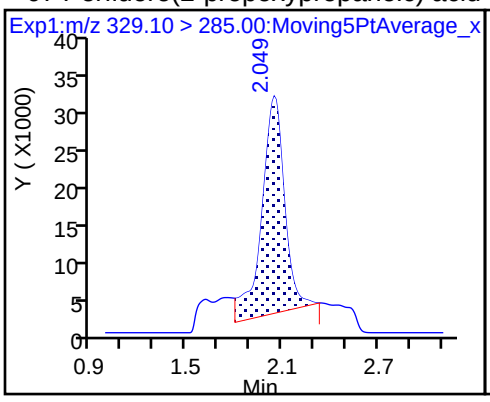
70 Perfluoropentanesulfonic acid



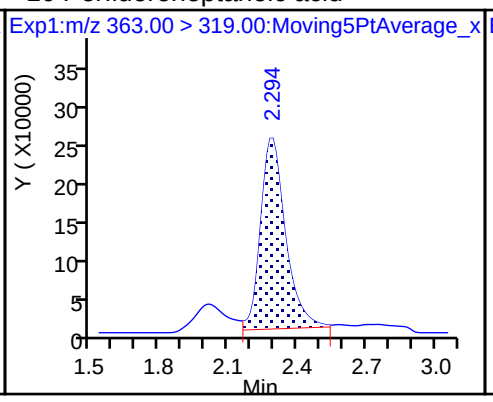
D 64 13C3 HFPO-DA



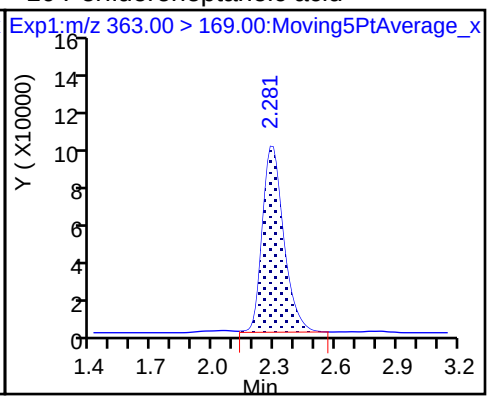
67 Perfluoro(2-propoxypropanoic) acid



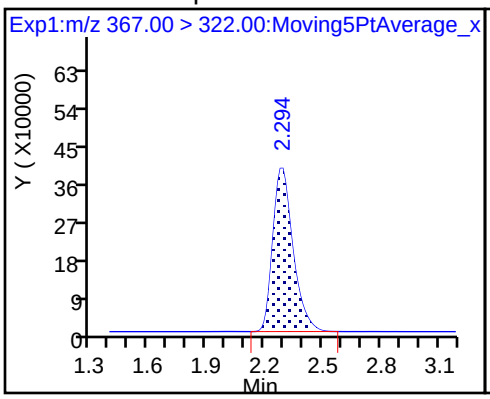
10 Perfluoroheptanoic acid



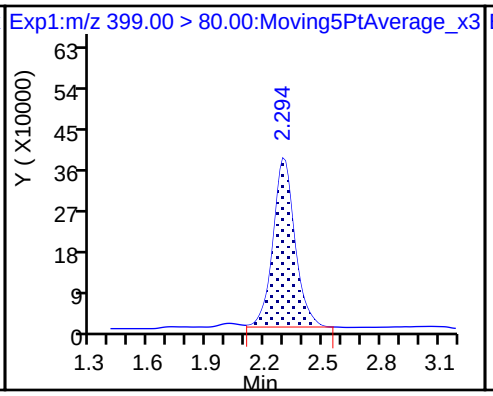
10 Perfluoroheptanoic acid



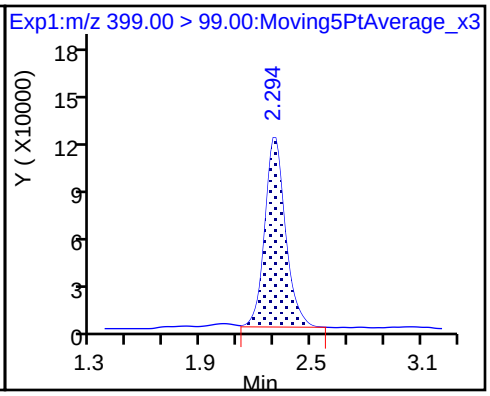
D 9 13C4-PFHpA



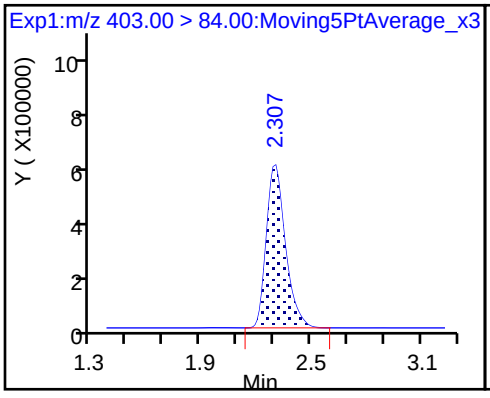
8 Perfluorohexanesulfonic acid



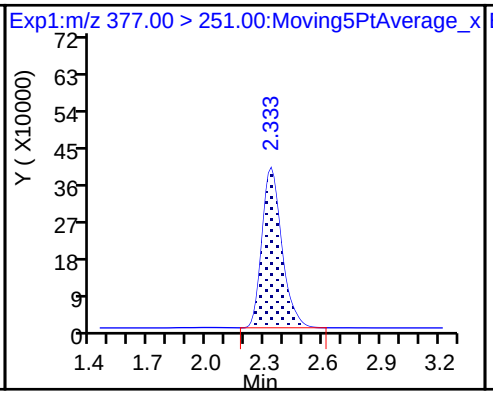
8 Perfluorohexanesulfonic acid



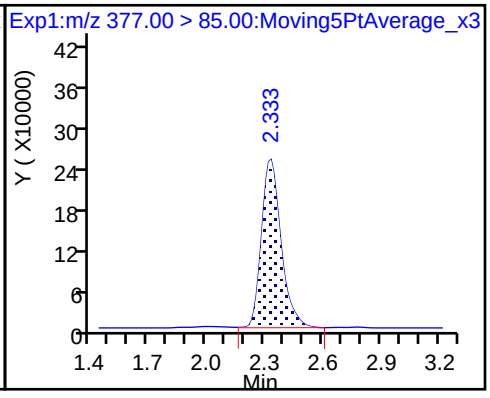
D 11 18O2 PFHxS



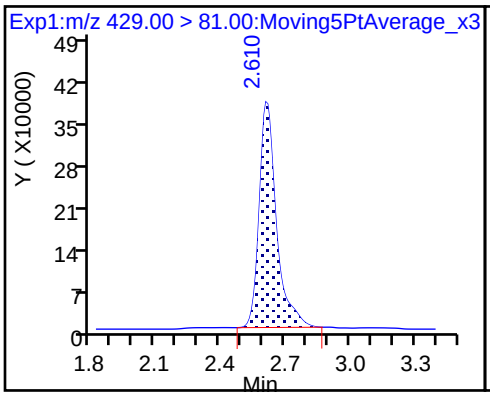
65 Adona



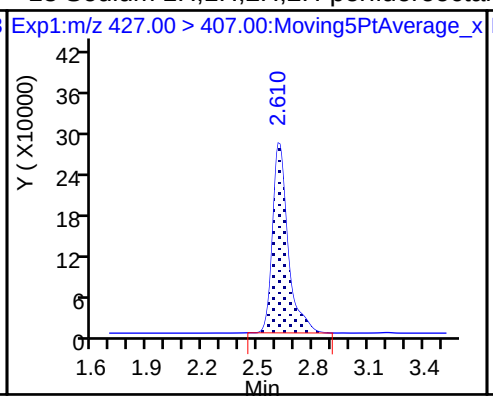
65 Adona



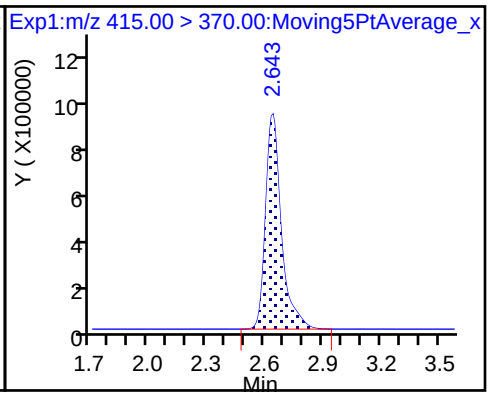
D 12 M2-6:2FTS



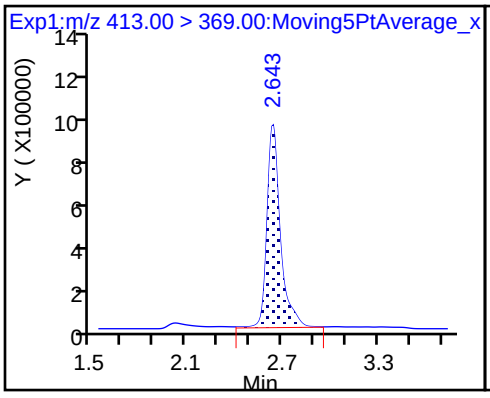
13 Sodium 1H,1H,2H,2H-perfluorooctane



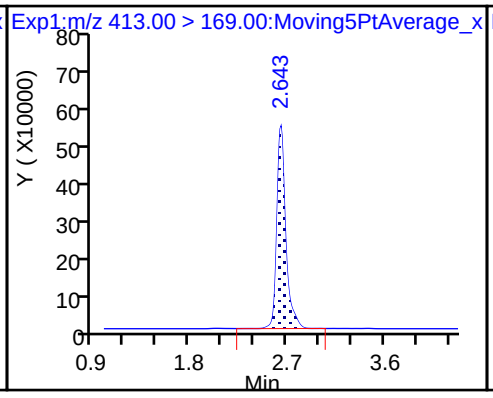
* 62 13C2-PFOA



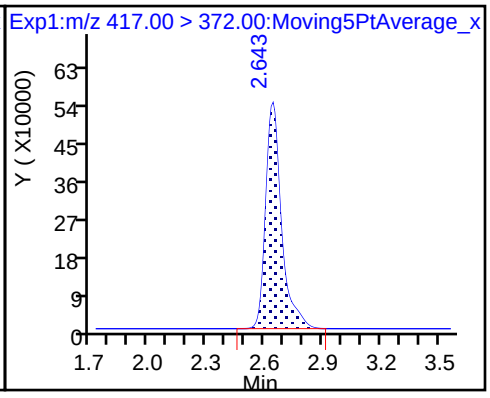
15 Perfluorooctanoic acid



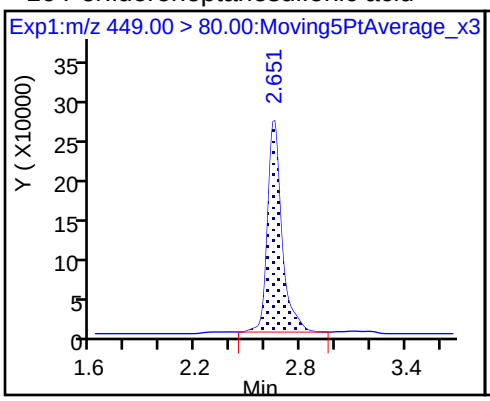
15 Perfluorooctanoic acid



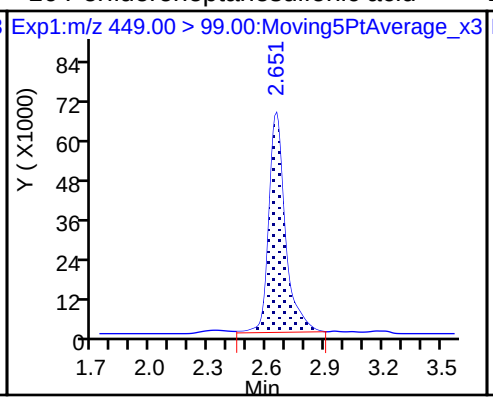
D 14 13C4 PFOA



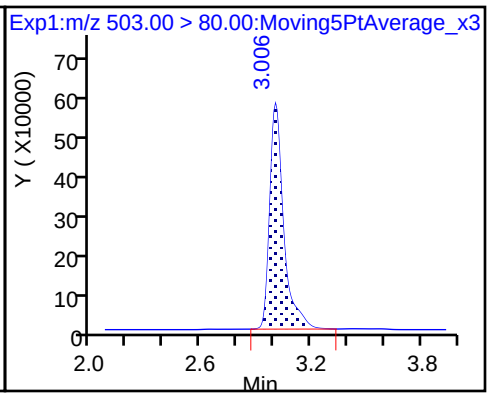
16 Perfluoroheptanesulfonic acid



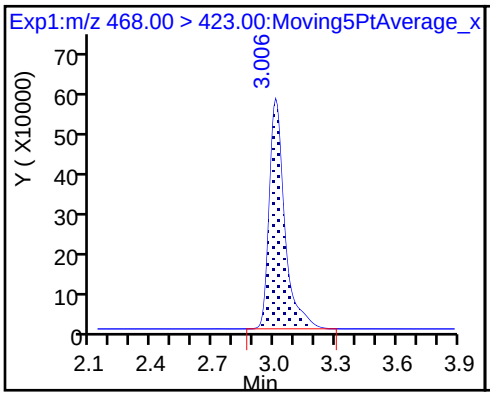
16 Perfluoroheptanesulfonic acid



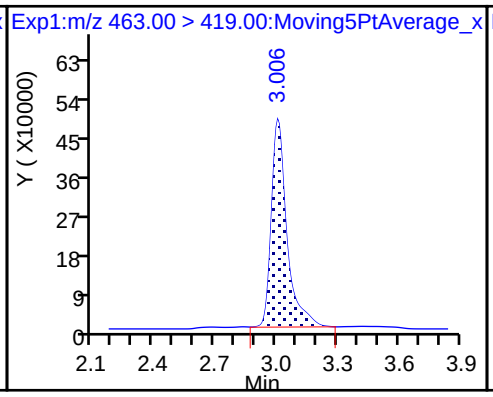
D 18 13C4 PFOS



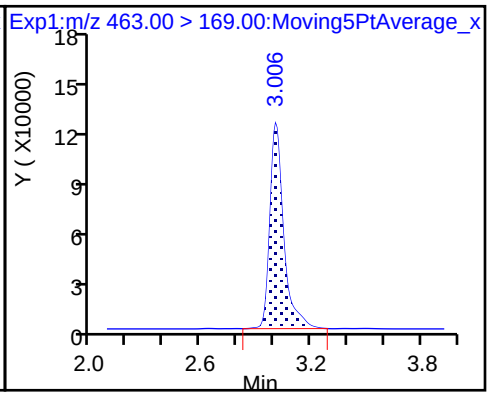
D 19 13C5 PFNA



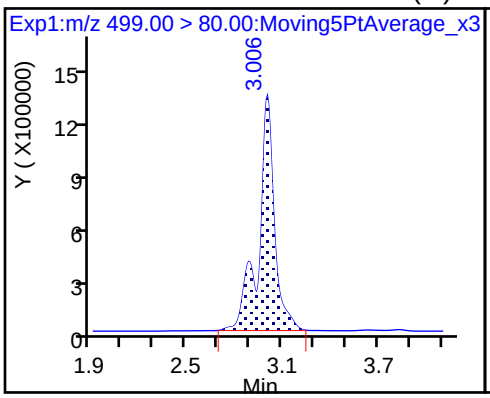
20 Perfluorononanoic acid



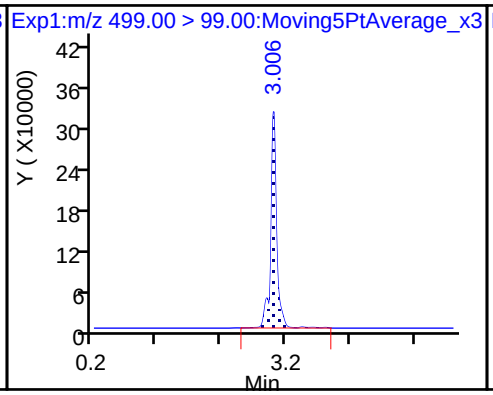
20 Perfluorononanoic acid



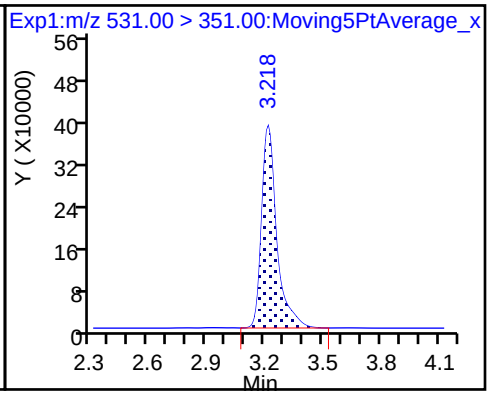
17 Perfluorooctane sulfonic acid (M)



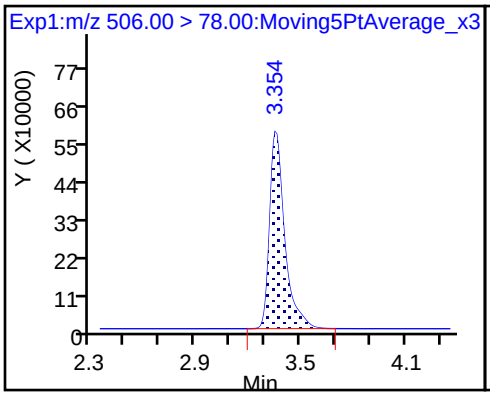
17 Perfluorooctane sulfonic acid



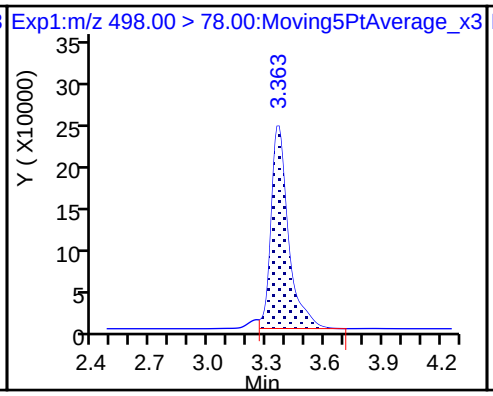
69 9-Chlorohexadecafluoro-3-oxanonane



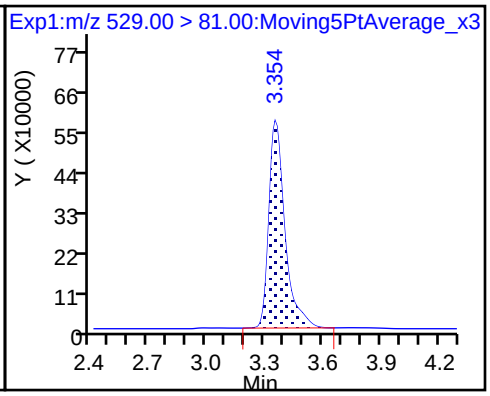
D 21 13C8 FOSA



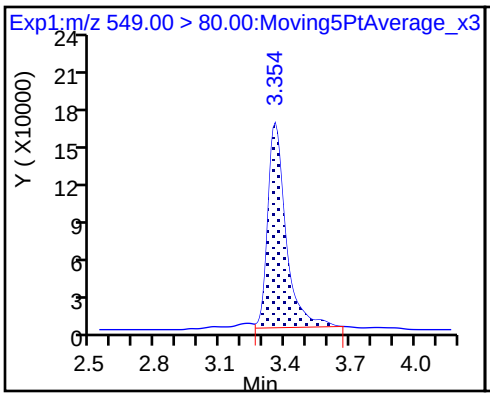
22 Perfluorooctane Sulfonamide



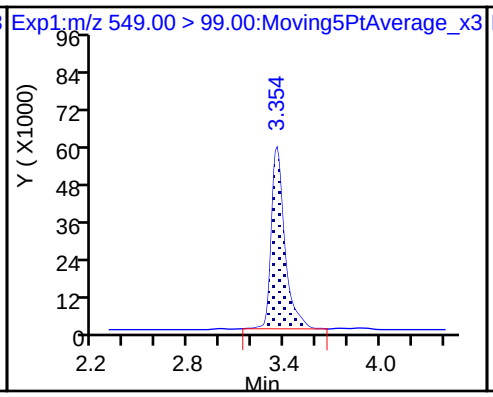
D 26 M2-8:2FTS



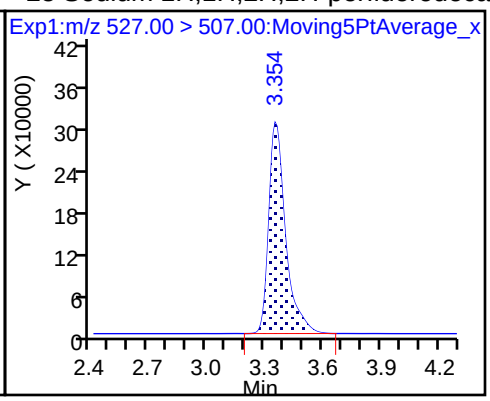
68 Perfluorononanesulfonic acid



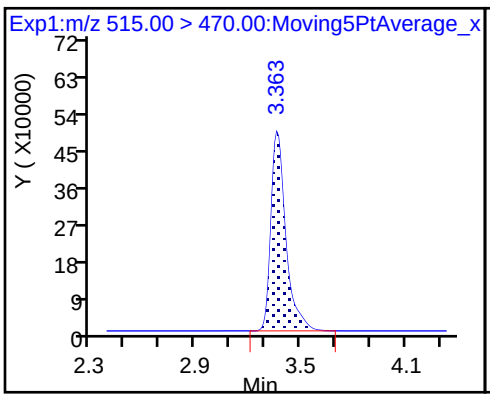
68 Perfluorononanesulfonic acid



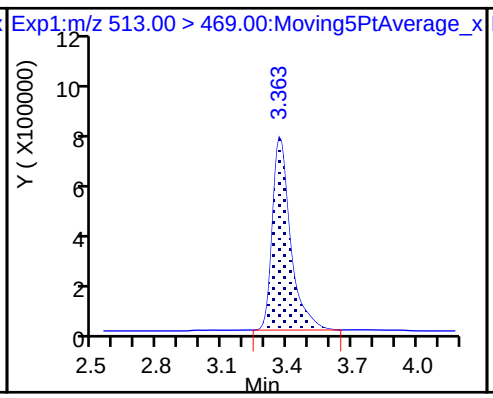
25 Sodium 1H,1H,2H,2H-perfluorodecane



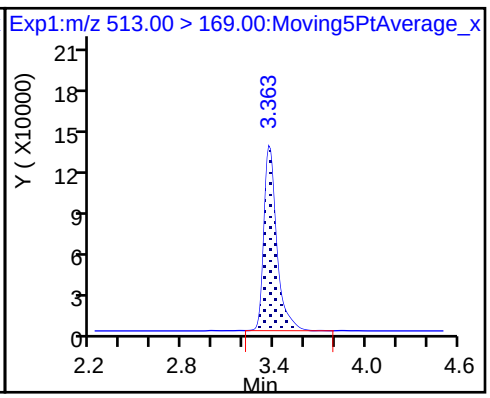
D 23 13C2 PFDA



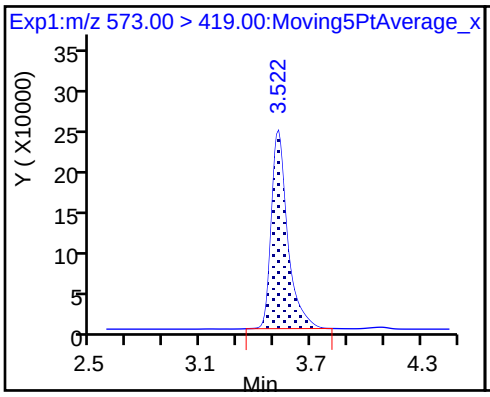
24 Perfluorodecanoic acid



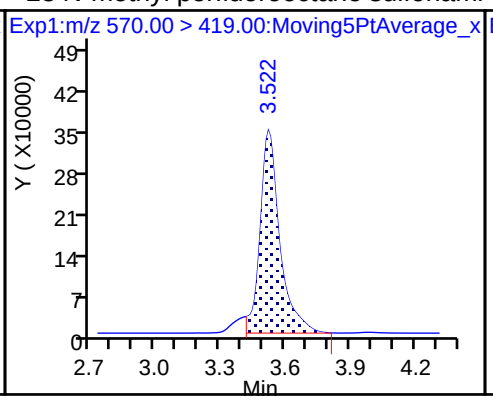
24 Perfluorodecanoic acid



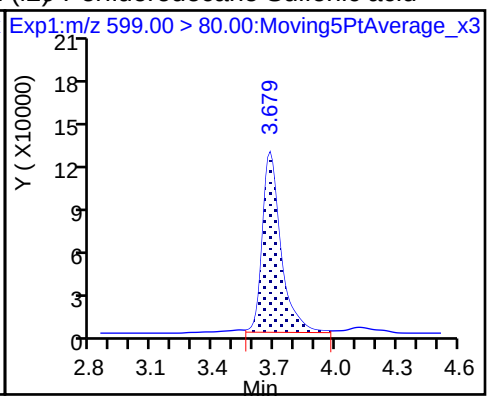
D 27 d3-NMeFOSAA



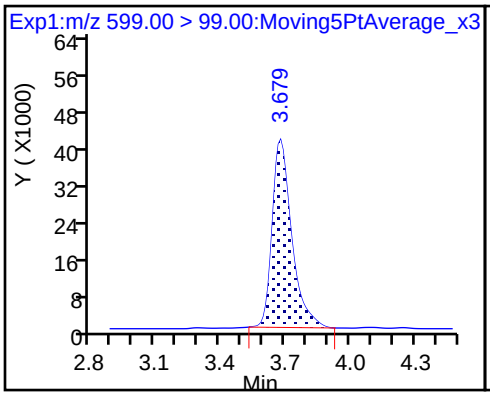
28 N-methyl perfluorooctane sulfonami (M)



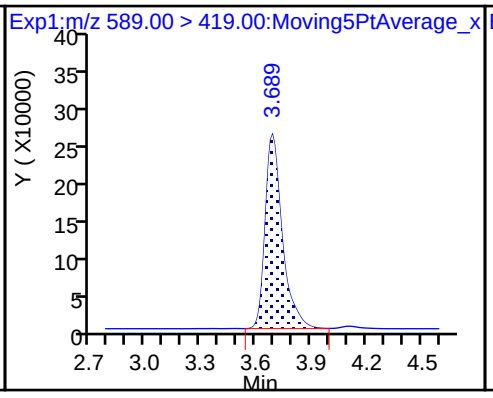
29 Perfluorodecane Sulfonic acid



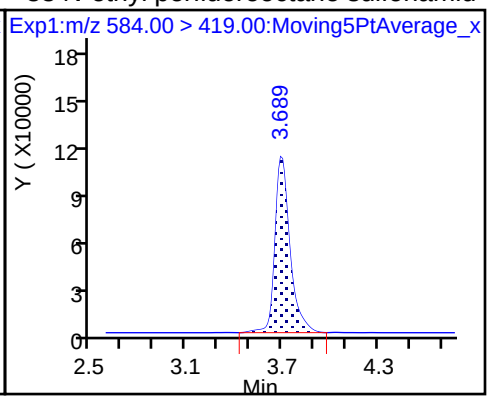
29 Perfluorodecane Sulfonic acid



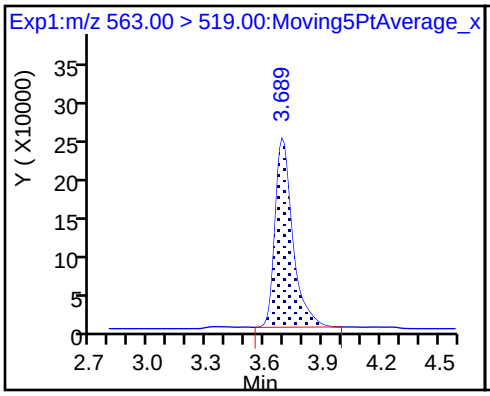
D 32 d5-NEtFOSAA



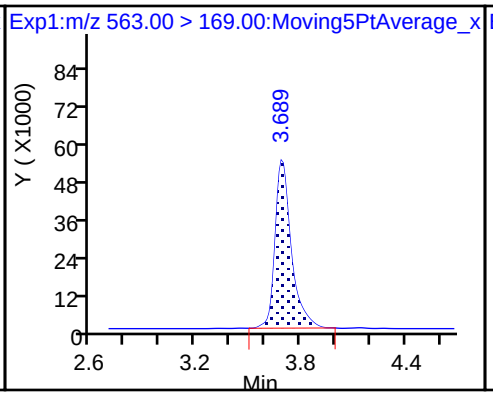
33 N-ethyl perfluorooctane sulfonamid



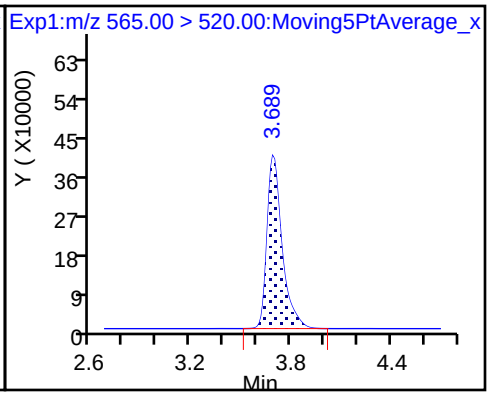
31 Perfluoroundecanoic acid



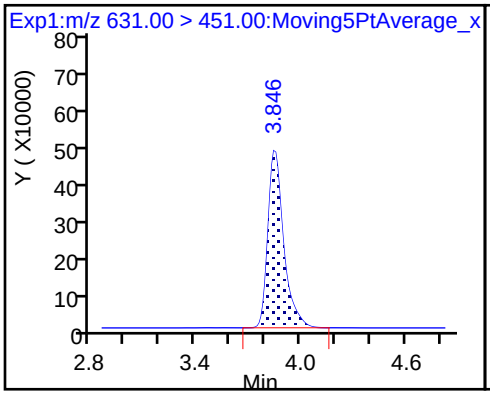
31 Perfluoroundecanoic acid



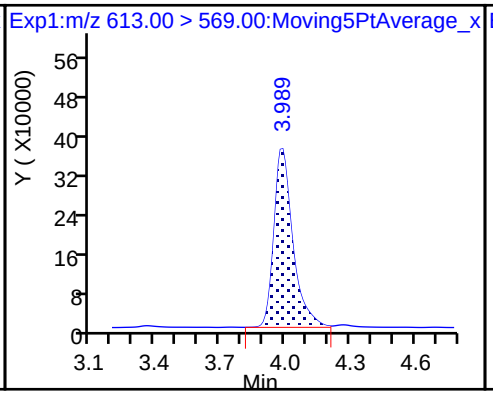
D 30 13C2 PFUnA



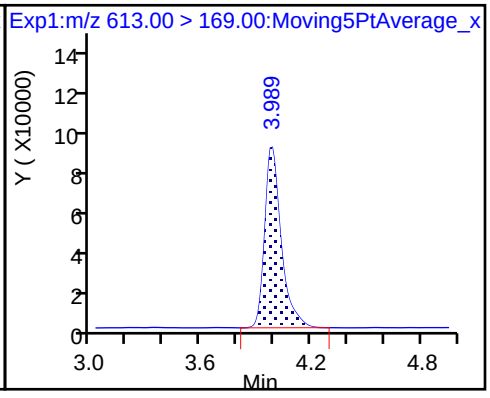
66 11-Chloroeicosafluoro-3-oxaundecan



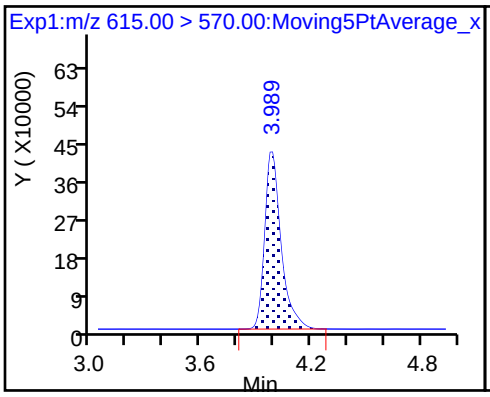
37 Perfluorododecanoic acid



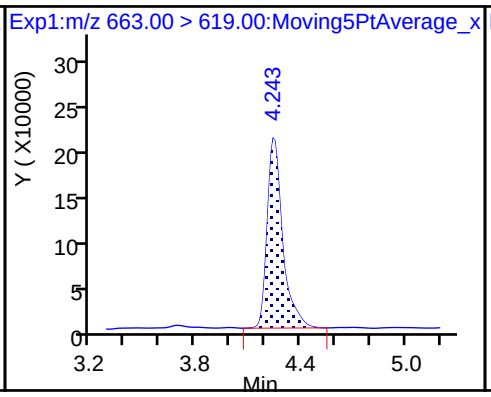
37 Perfluorododecanoic acid



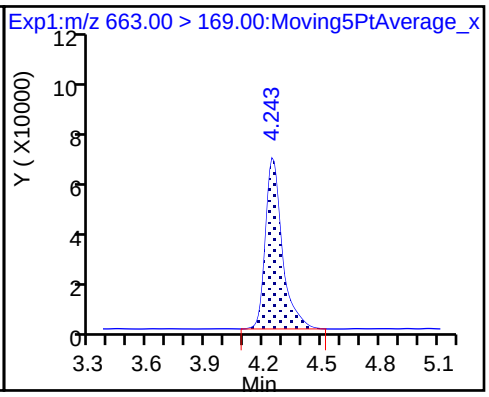
D 36 13C2 PFDoA



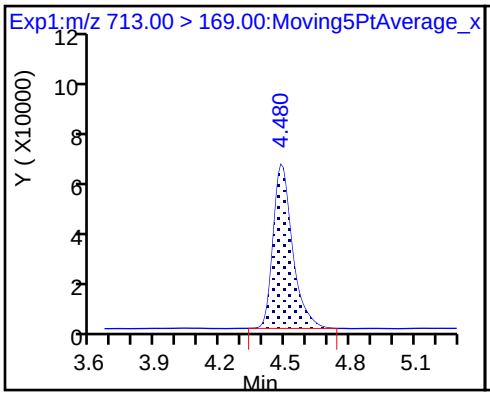
41 Perfluorotridecanoic acid



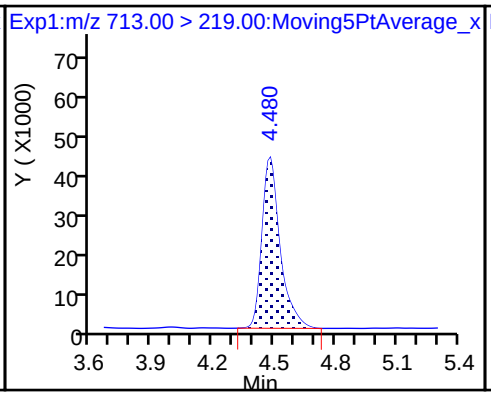
41 Perfluorotridecanoic acid



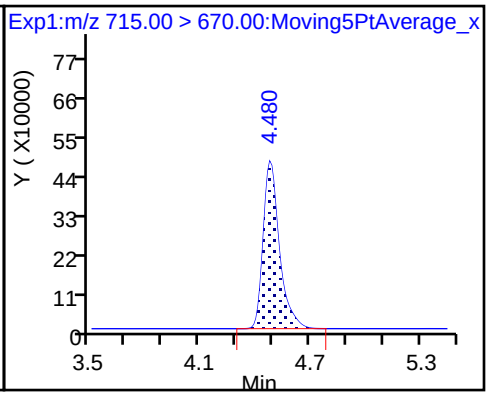
42 Perfluorotetradecanoic acid



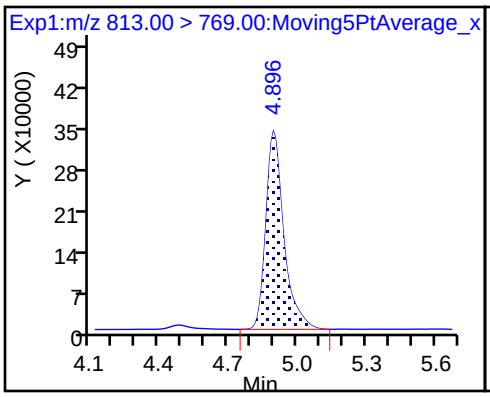
42 Perfluorotetradecanoic acid



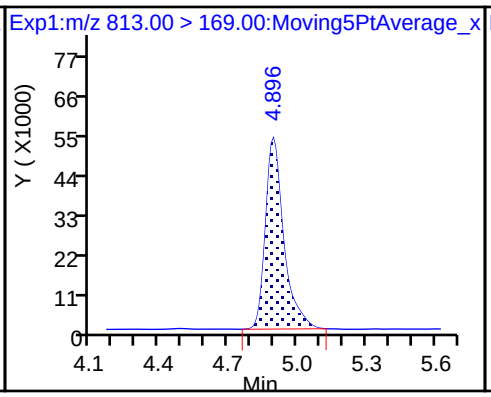
D 43 13C2-PFTeDA



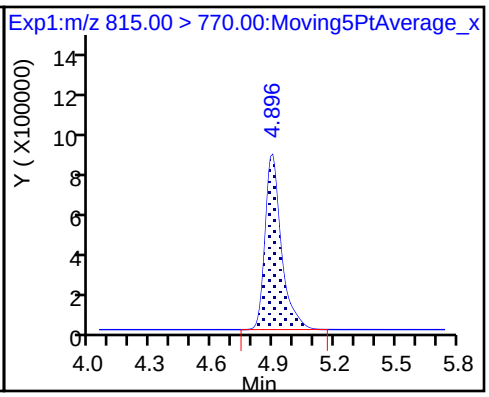
45 Perfluorohexadecanoic acid



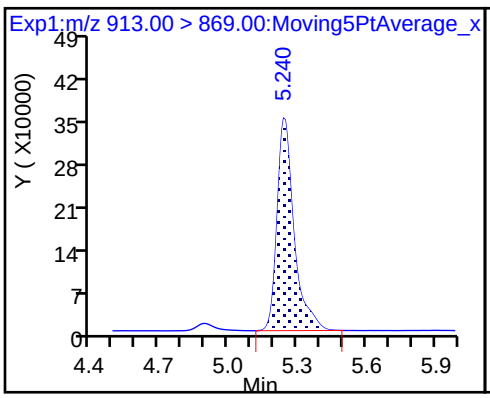
45 Perfluorohexadecanoic acid



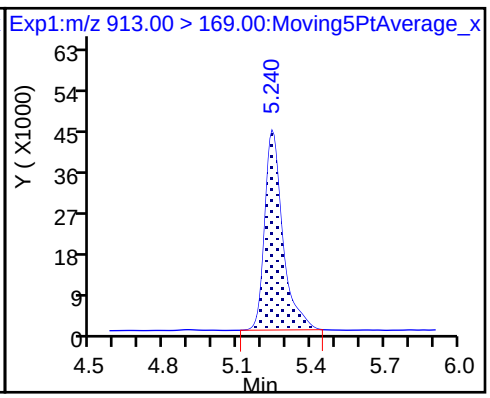
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MSD | Lab Sample ID: 320-37224-2 MSD

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_042.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.04(g) | Date Analyzed: 03/30/2018 18:40

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.00681		0.00049	0.000068
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.00464		0.00049	0.00019
307-24-4	Perfluorohexanoic acid (PFHxA)	0.00616		0.00049	0.00010
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.00549		0.00049	0.000071
335-67-1	Perfluorooctanoic acid (PFOA)	0.0113		0.00049	0.00021
375-95-1	Perfluorononanoic acid (PFNA)	0.00777		0.00049	0.000088
335-76-2	Perfluorodecanoic acid (PFDA)	0.0135		0.00049	0.000054
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.00803		0.00049	0.000088
307-55-1	Perfluorododecanoic acid (PFDoA)	0.00830		0.00049	0.00016
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	0.00551		0.00049	0.00012
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.00622		0.00049	0.00013
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00429		0.00049	0.000061
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00522		0.00049	0.000075
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00427		0.00049	0.000085
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0186		0.0012	0.00049
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.00440		0.00049	0.000095
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.00525		0.00049	0.00020
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.0105		0.0049	0.00095
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.00485	J	0.0049	0.00090
27619-97-2	6:2FTS	0.0330		0.0049	0.00036
39108-34-4	8:2FTS	0.00518		0.0049	0.00061

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MSD | Lab Sample ID: 320-37224-2 MSD

Matrix: Solid | Lab File ID: 2018.03.30LLBXZAG_042.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 03/27/2018 15:42

Sample wt/vol: 5.04(g) | Date Analyzed: 03/30/2018 18:40

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 215776 | Units: mg/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	50		25-150
STL01893	13C5 PFPeA	59		25-150
STL00993	13C2 PFHxA	59		25-150
STL01892	13C4-PFHpA	64		25-150
STL00990	13C4 PFOA	68		25-150
STL00995	13C5 PFNA	75		25-150
STL00996	13C2 PFDA	88		25-150
STL00997	13C2 PFUnA	89		25-150
STL00998	13C2 PFDoA	88		25-150
STL02116	13C2-PFTeDA	73		25-150
STL02337	13C3-PFBS	68		25-150
STL00994	18O2 PFHxS	74		25-150
STL00991	13C4 PFOS	74		25-150
STL01056	13C8 FOSA	63		25-150
STL02118	d3-NMeFOSAA	110		25-150
STL02117	d5-NEtFOSAA	120		25-150
STL02279	M2-6:2FTS	189	*	25-150
STL02280	M2-8:2FTS	251	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Lims ID: 320-37224-A-2-C MSD
Client ID:
Sample Type: MSD
Inject. Date: 30-Mar-2018 18:40:03 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-a-2-c msd
Misc. Info.: Plate: 1 Rack: 6
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:36:02 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: barnettj Date: 02-Apr-2018 11:07:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.433	1.435	-0.002	1.000	3820883	1.24		49.6	15163	M
2 Perfluorobutyric acid										M
212.90 > 169.00	1.433	1.442	-0.009	1.000	1976584	1.40		140	57.5	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.698	1.701	-0.003	0.556	2948156	1.47		58.8	12864	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.698	1.703	-0.005	1.000	1346632	0.9541		95.4	58.1	M
D 47 13C3-PFBS										
301.90 > 83.00	1.734	1.737	-0.003	1.000	72306	1.57		67.7	68.9	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.734	1.739	-0.005	1.000	2166164	0.8829		99.9	342	M
298.90 > 99.00	1.734	1.739	-0.005	1.000	851834		2.54(1.25-3.74)		596	
D 60 M2-4:2FTS										
329.00 > 81.00	2.010	1.948	0.062	1.000	11843	0.0337		0.0	7.8	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.956	1.961	-0.005	1.000	1196063	2.23		239	14944	
D 7 13C2 PFHxA										
315.00 > 270.00	1.988	1.991	-0.003	1.000	3241755	1.47		58.6	34746	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.988	1.994	-0.006	1.000	1680927	1.27		127	225	
313.00 > 119.00	1.988	1.994	-0.006	1.000	157511		10.67(5.03-15.10)		495	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.010	2.016	-0.006	1.000	1884348	0.8510		90.7	909	
349.00 > 99.00	2.010	2.016	-0.006	1.000	642425		2.93(1.36-4.07)		1902	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.095	-0.005	1.000	219433	NR		0.0	215	
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.319	-0.004	1.000	3385763	1.59		63.7	54438	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.315	2.322	-0.007	1.000	1660482	1.13		113	337	M
363.00 > 169.00	2.315	2.322	-0.007	1.000	686565		2.42(1.13-3.40)		1248	
D 11 18O2 PFHxS										
403.00 > 84.00	2.328	2.332	-0.004	1.000	4632299	1.75		73.9	62714	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.328	2.336	-0.008	1.000	2347214	1.07		118	760	
399.00 > 99.00	2.328	2.336	-0.008	1.000	780885		3.01(1.50-4.49)		821	
65 Adona										
377.00 > 251.00	2.368	2.374	-0.006	1.000	4144322	0.8551		85.5	31568	
377.00 > 85.00	2.368	2.374	-0.006	1.000	2214539		1.87(0.84-2.53)		7367	
D 12 M2-6:2FTS										
429.00 > 81.00	2.658	2.655	0.003	1.000	2201400	4.48		189	2536	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.658	2.668	-0.010	1.000	11751662	6.79		716	61761	
D 14 13C4 PFOA										
417.00 > 372.00	2.680	2.685	-0.005	1.000	3566444	1.71		68.2	51690	
* 62 13C2-PFOA										
415.00 > 370.00	2.680	2.691	-0.011		5576929	2.50			80357	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.680	2.691	-0.011	1.000	3939818	2.33		233	1161	
413.00 > 169.00	2.680	2.691	-0.011	1.000	2063416		1.91(0.84-2.52)		5088	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.688	2.698	-0.010	1.000	1589642	0.8771		92.1	2273	
449.00 > 99.00	2.688	2.698	-0.010	1.000	433310		3.67(1.94-5.82)		1245	
D 18 13C4 PFOS										
503.00 > 80.00	3.049	3.051	-0.002	1.000	3250201	1.76		73.8	5947	
D 19 13C5 PFNA										
468.00 > 423.00	3.056	3.051	0.005	1.000	3303504	1.87		74.7	73316	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.056	3.060	-0.004	1.002	5956252	3.83		413	4916	
499.00 > 99.00	3.049	3.060	-0.011	1.000	1348265		4.42(2.31-6.93)		15774	
20 Perfluorononanoic acid										
463.00 > 419.00	3.056	3.060	-0.004	1.000	2170777	1.60		160	1389	
463.00 > 169.00	3.056	3.060	-0.004	1.000	542782		4.00(1.90-5.69)		6728	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.263	3.273	-0.010	1.000	2263213	0.8900		95.5	17264	
D 21 13C8 FOSA										
506.00 > 78.00	3.385	3.388	-0.003	1.000	4096263	1.57		63.0	38324	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.385	3.398	-0.013	1.000	1745798	1.08		108	14888	
D 26 M2-8:2FTS										
529.00 > 81.00	3.404	3.407	-0.003	1.000	3434509	6.01		251	4803	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.404	3.407	-0.003	1.000	996846	0.9143		95.2	1541	
549.00 > 99.00	3.404	3.407	-0.003	1.000	387125		2.57(1.33-3.97)		2098	
D 23 13C2 PFDA										
515.00 > 470.00	3.413	3.416	-0.003	1.000	3276897	2.19		87.7	72180	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.404	3.417	-0.013	1.000	2058177	1.06		111	51114	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.413	3.426	-0.013	1.000	3589497	2.77		277	4338	
513.00 > 169.00	3.413	3.426	-0.013	1.000	638372		5.62(2.36-7.09)		7895	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.571	3.574	-0.003	1.000	2200298	2.75		110	22869	
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.571	3.586	-0.015	1.000	1994058	2.15		215	1529	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.736	3.740	-0.004	1.000	2511130	2.99		120	14314	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.726	3.740	-0.014	1.000	854398	0.9055		93.9	1134	
599.00 > 99.00	3.726	3.740	-0.014	1.000	283590		3.01(1.39-4.16)		1857	
D 30 13C2 PFUnA										
565.00 > 520.00	3.747	3.750	-0.003	1.000	2724035	2.23		89.3	45609	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.747	3.751	-0.004	1.003	918935	1.00		99.8	16188	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.747	3.751	-0.004	1.000	1442818	1.65		165	1890	
563.00 > 169.00	3.747	3.751	-0.004	1.000	330663		4.36(2.12-6.36)		3509	
35 MeFOSA										
512.00 > 169.00	3.893	3.875	0.018		16342	NC			21.5	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.903	3.918	-0.015	1.000	3288802	0.8332		88.5	37024	
D 36 13C2 PFDoA										
615.00 > 570.00	4.036	4.040	-0.004	1.000	2980009	2.19		87.8	28343	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.036	4.050	-0.014	1.000	2198200	1.71		171	1235	
613.00 > 169.00	4.036	4.050	-0.014	1.000	570887		3.85(2.13-6.40)		2924	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.297	4.307	-0.010	1.000	1559875	1.13		113	985	
663.00 > 169.00	4.297	4.307	-0.010	1.000	485527		3.21(1.25-3.76)		2301	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.541	4.544	-0.003	1.000	3166386	1.84		73.4	16688	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.541	4.553	-0.012	1.000	404673	1.28		128	2011	
713.00 > 219.00	4.531	4.553	-0.022	0.998	285846		1.42(0.71-2.13)		1348	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.956	4.959	-0.003	1.000	5247901	1.97		78.8	11127	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.956	4.966	-0.010	1.000	2022087	1.00		99.6	900	
813.00 > 169.00	4.956	4.966	-0.010	1.000	357995		5.65(2.86-8.58)		1276	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.320	5.336	-0.016	1.000	1915788	0.9193		91.9	945	
913.00 > 169.00	5.320	5.336	-0.016	1.000	255946		7.49(3.83-11.48)		863	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:36:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d

Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N

Lims ID: 320-37224-A-2-C MSD

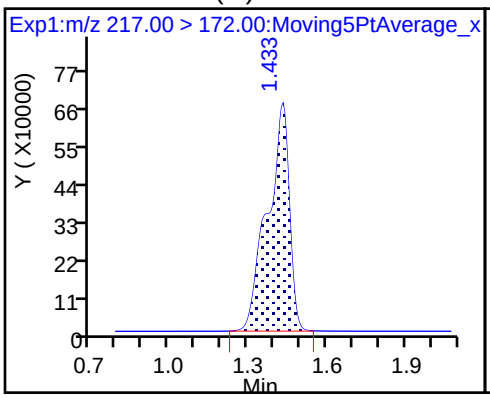
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6

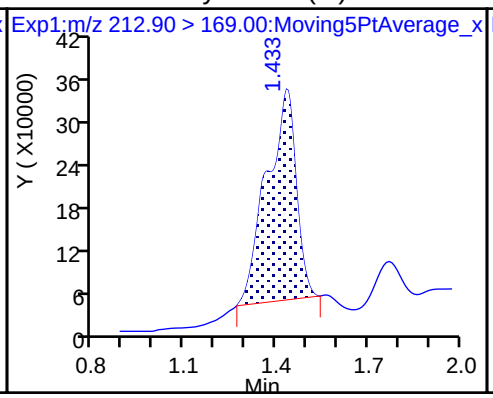
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

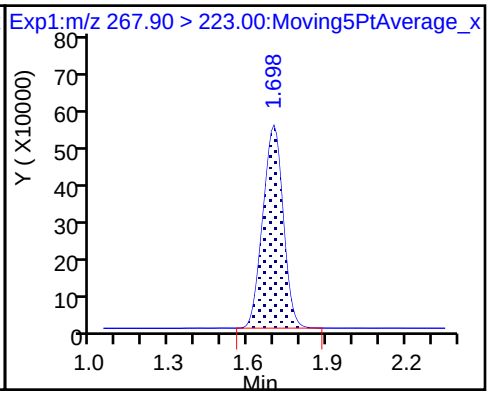
D 1 13C4 PFBA (M)



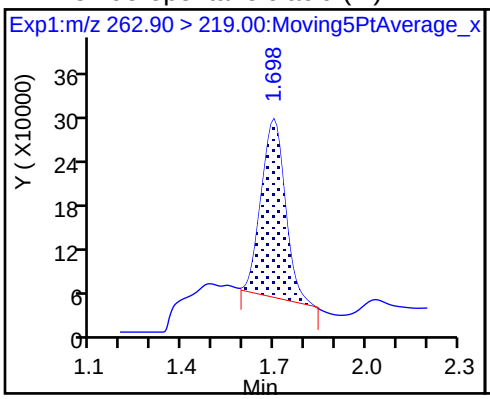
2 Perfluorobutyric acid (M)



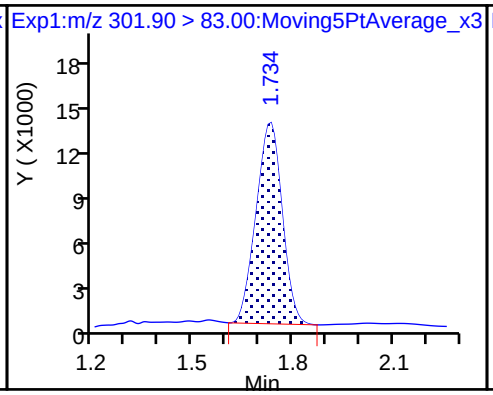
D 3 13C5-PFPeA



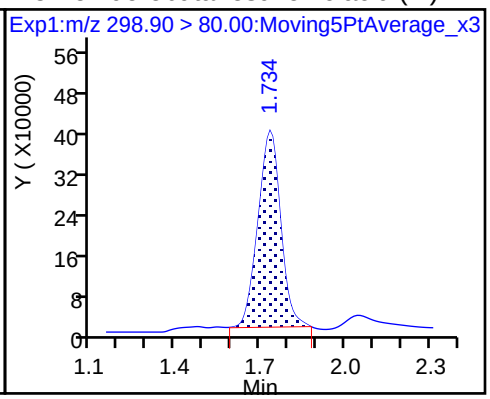
4 Perfluoropentanoic acid (M)



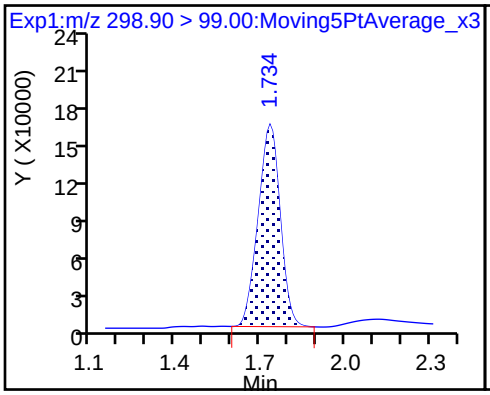
D 47 13C3-PFBS



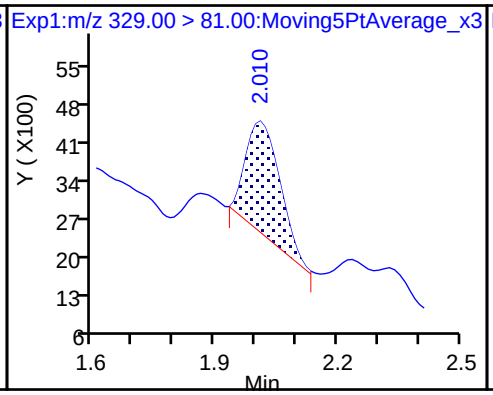
5 Perfluorobutanesulfonic acid (M)



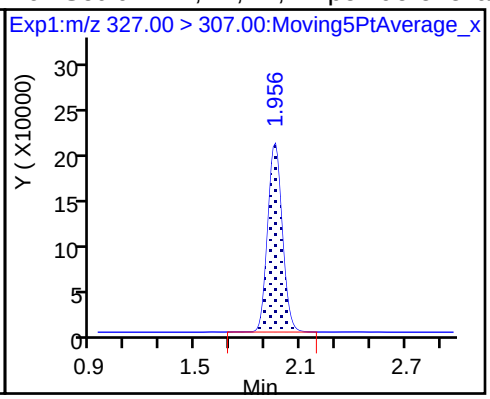
5 Perfluorobutanesulfonic acid



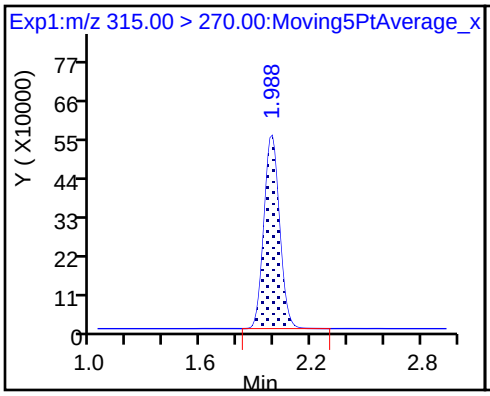
D 60 M2-4:2FTS



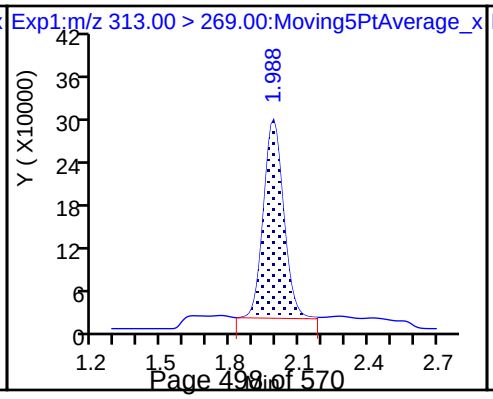
61 Sodium 1H,1H,2H,2H-perfluorohexane



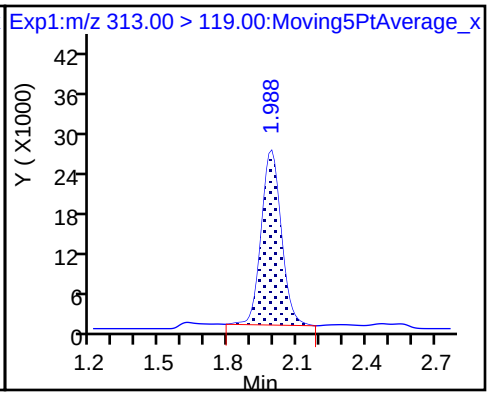
D 7 13C2 PFHxA



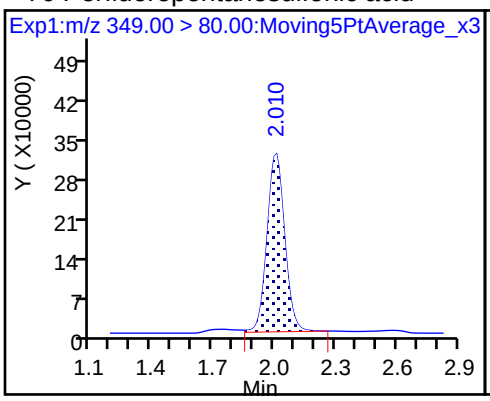
6 Perfluorohexanoic acid



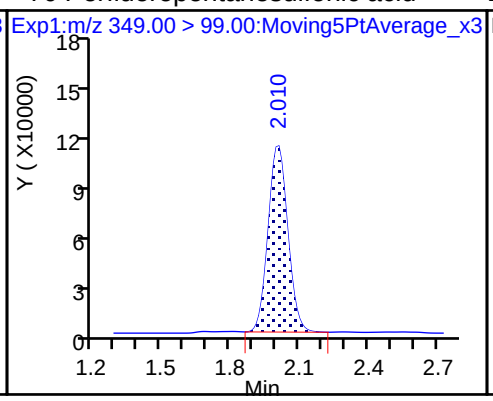
6 Perfluorohexanoic acid



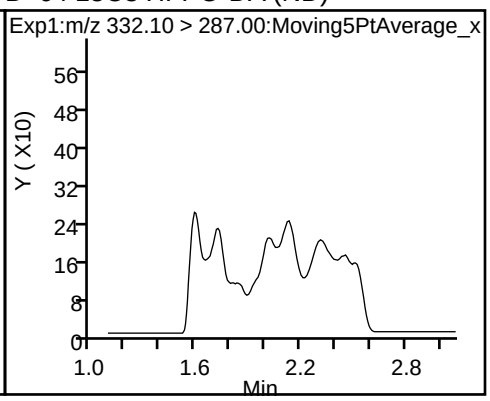
70 Perfluoropentanesulfonic acid



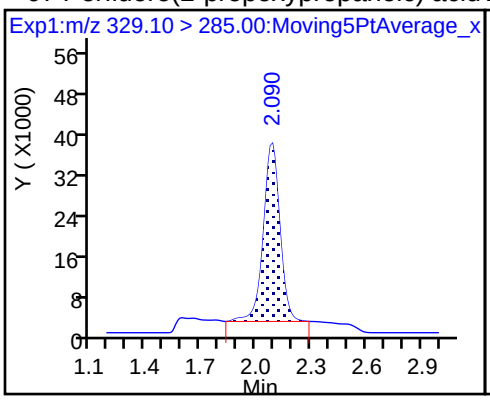
70 Perfluoropentanesulfonic acid



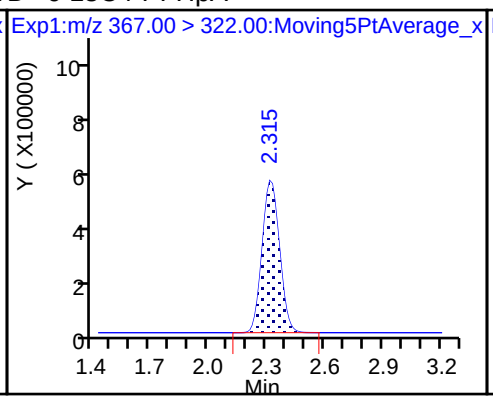
D 64 13C3 HFPO-DA (ND)



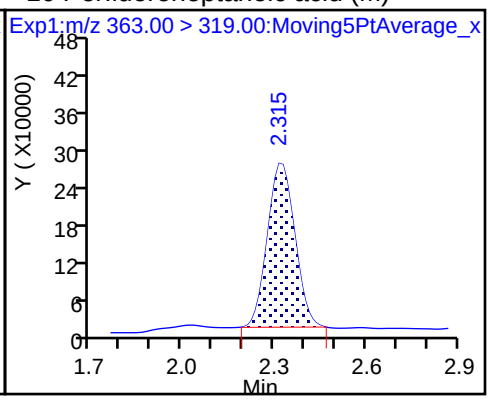
67 Perfluoro(2-propoxypropanoic) acid



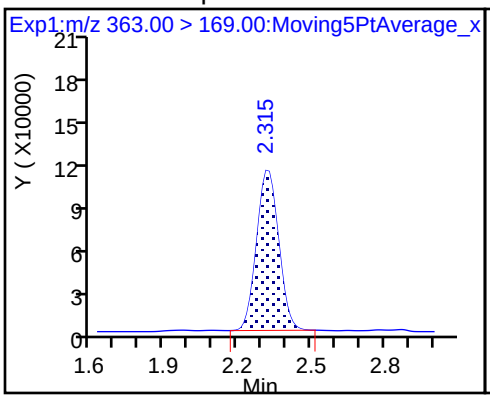
D 9 13C4-PFHpA



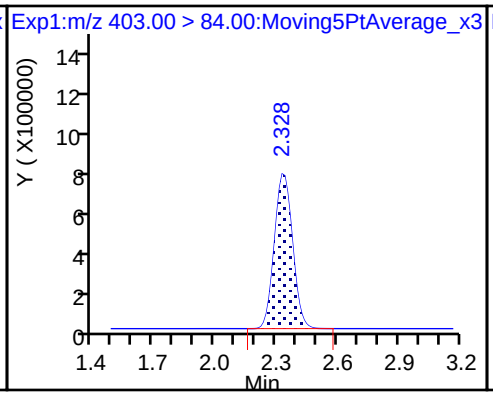
10 Perfluoroheptanoic acid (M)



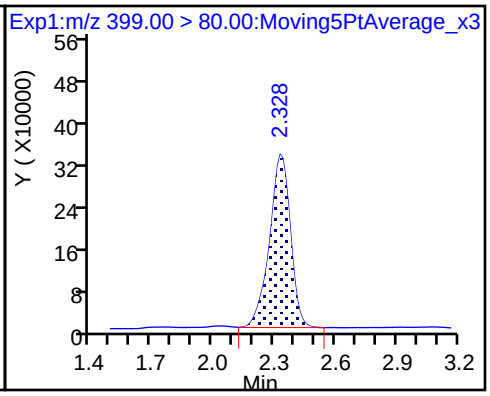
10 Perfluoroheptanoic acid



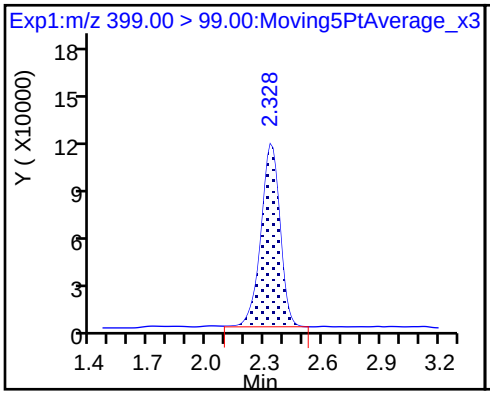
D 11 18O2 PFHxS



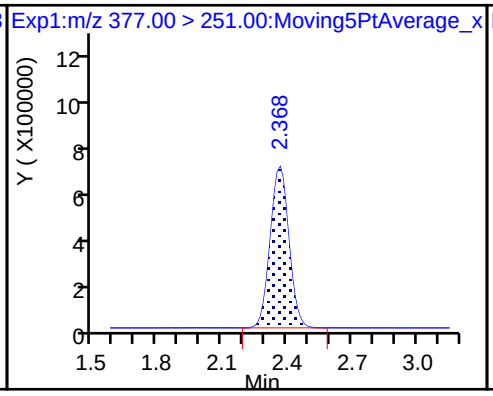
8 Perfluorohexanesulfonic acid



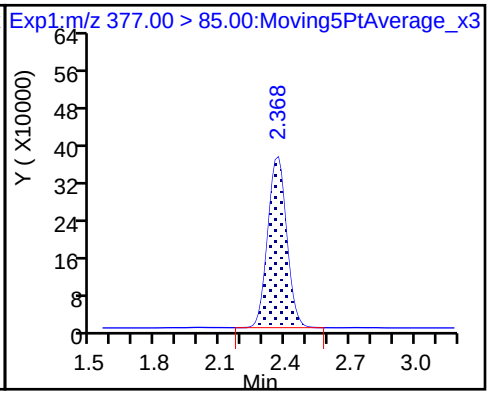
8 Perfluorohexanesulfonic acid



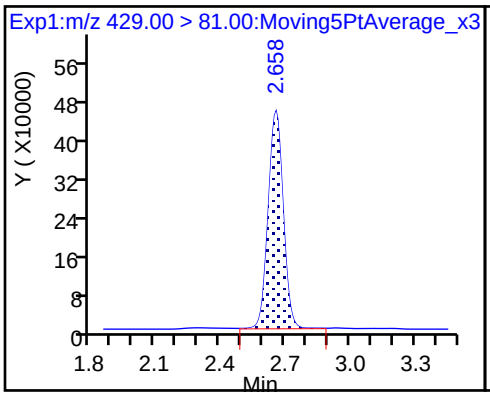
65 Adona



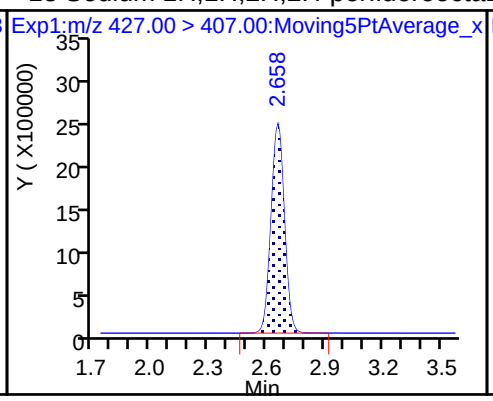
65 Adona



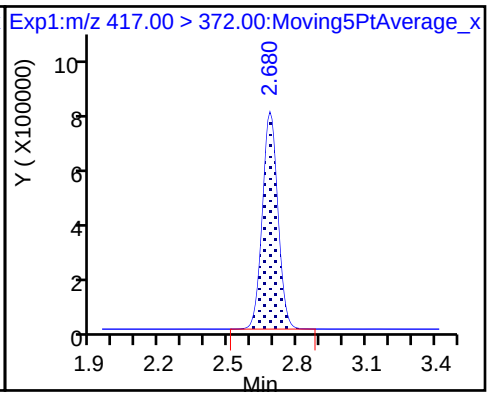
D 12 M2-6:2FTS



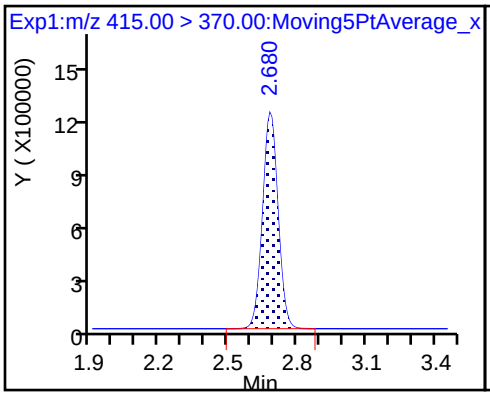
13 Sodium 1H,1H,2H,2H-perfluorooctane



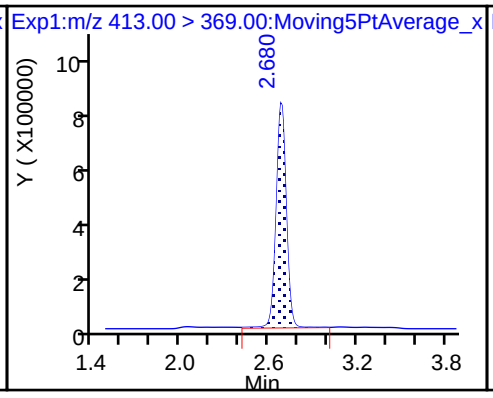
D 14 13C4 PFOA



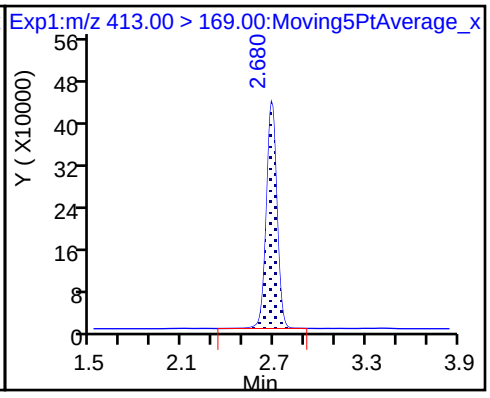
* 62 13C2-PFOA



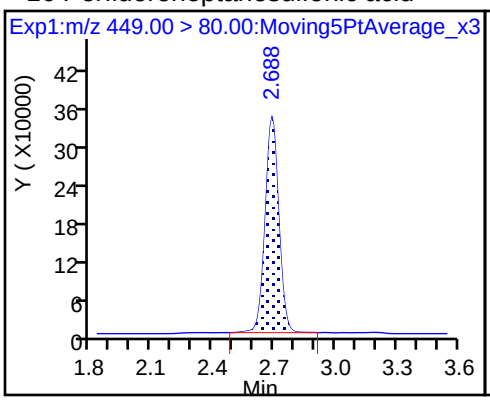
15 Perfluorooctanoic acid



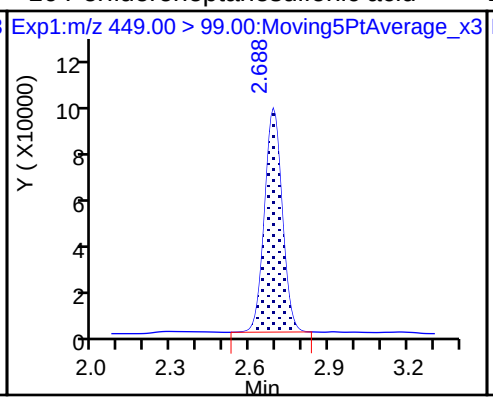
15 Perfluorooctanoic acid



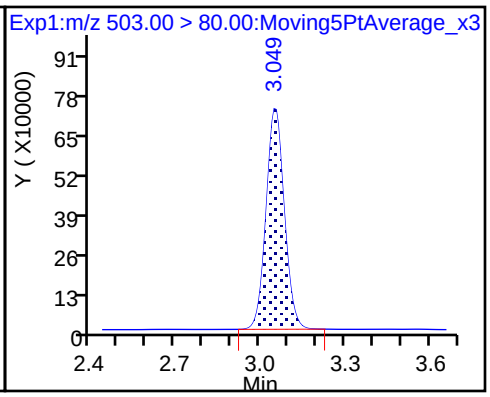
16 Perfluoroheptanesulfonic acid



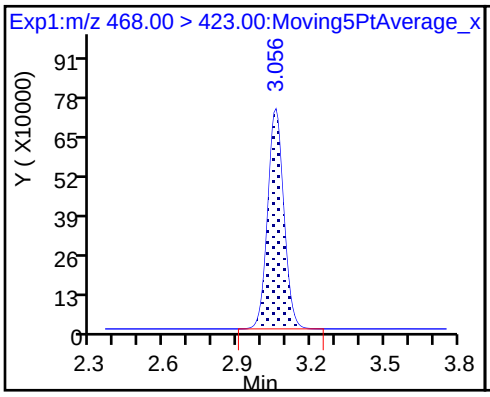
16 Perfluoroheptanesulfonic acid



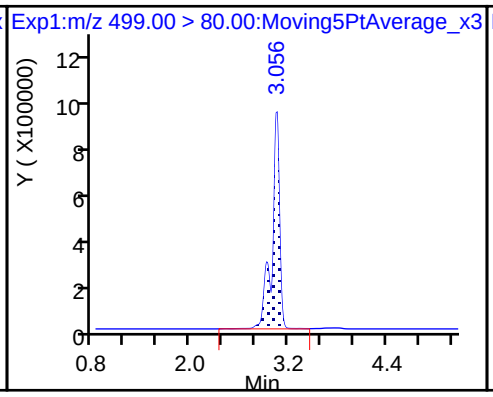
D 18 13C4 PFOS



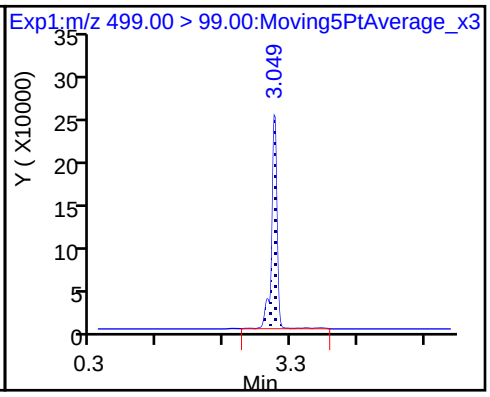
D 19 13C5 PFNA



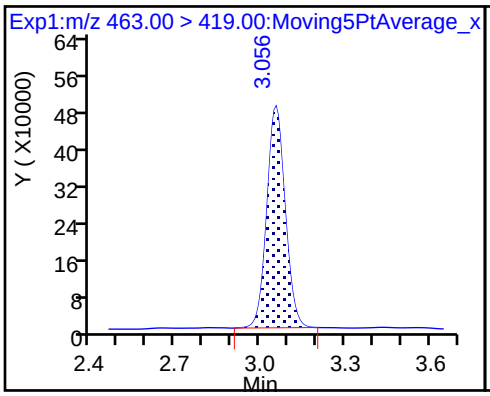
17 Perfluorooctane sulfonic acid



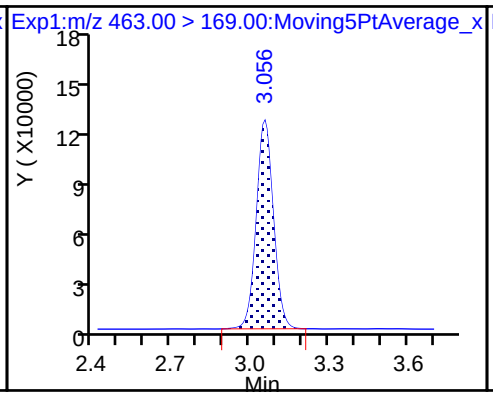
17 Perfluorooctane sulfonic acid



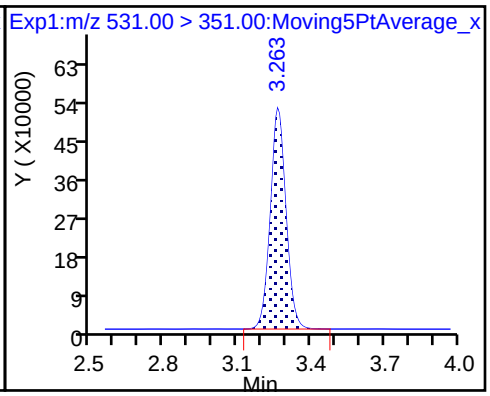
20 Perfluorononanoic acid



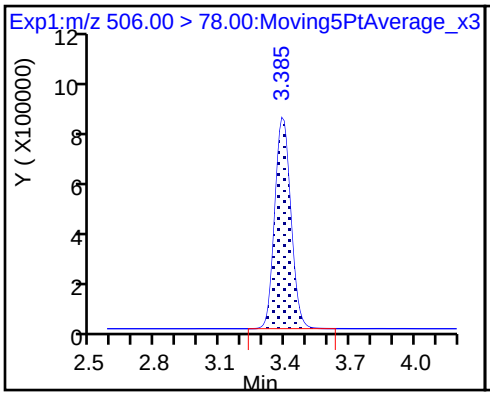
20 Perfluorononanoic acid



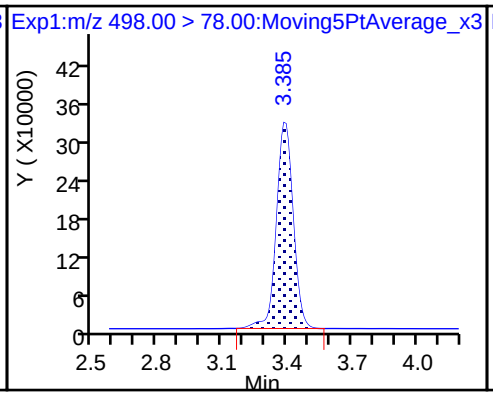
69 9-Chlorohexadecafluoro-3-oxanonane



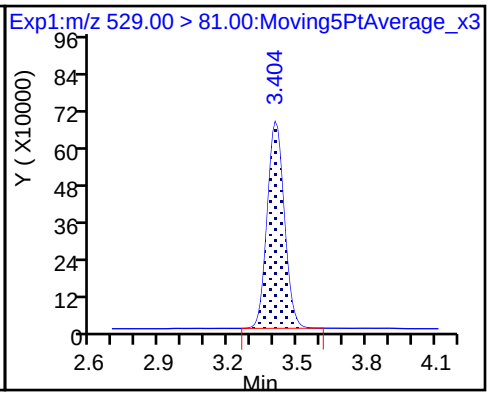
D 21 13C8 FOSA



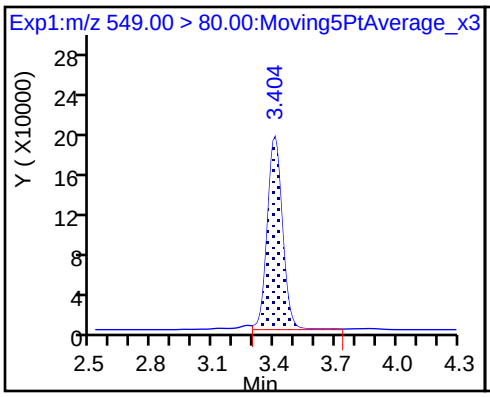
22 Perfluorooctane Sulfonamide



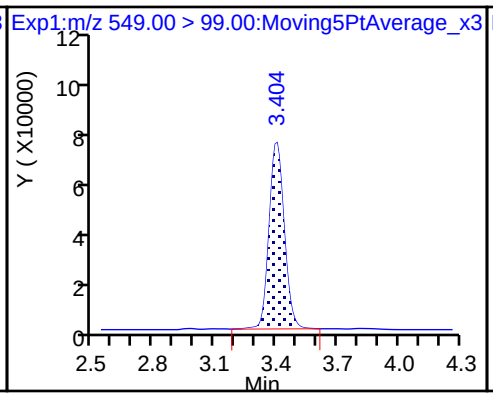
D 26 M2-8:2FTS



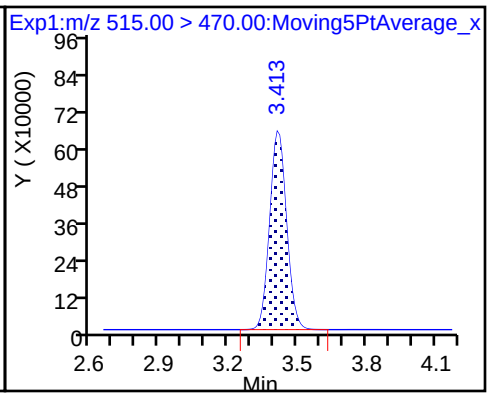
68 Perfluorononanesulfonic acid



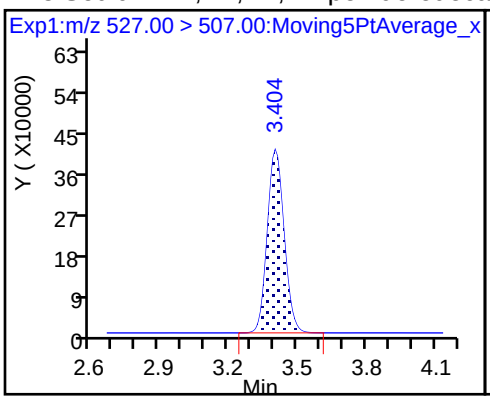
68 Perfluorononanesulfonic acid



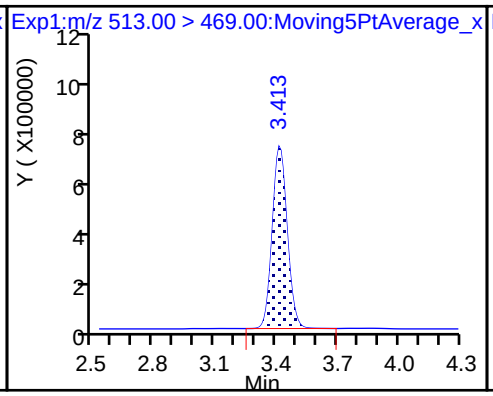
D 23 13C2 PFDA



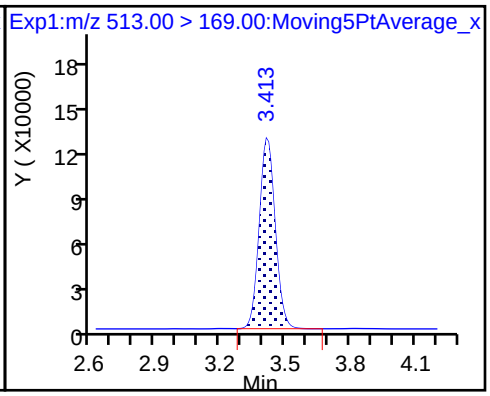
25 Sodium 1H,1H,2H,2H-perfluorodecane



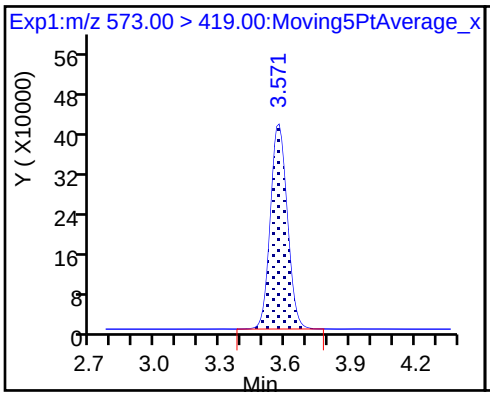
24 Perfluorodecanoic acid



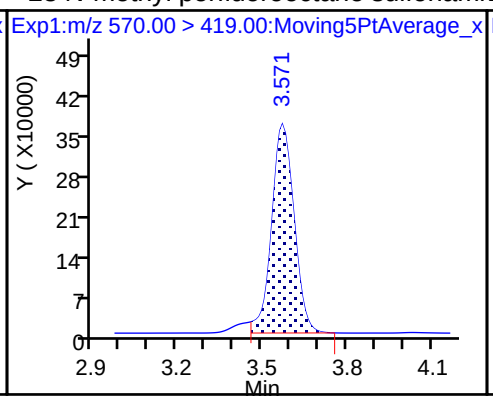
24 Perfluorodecanoic acid



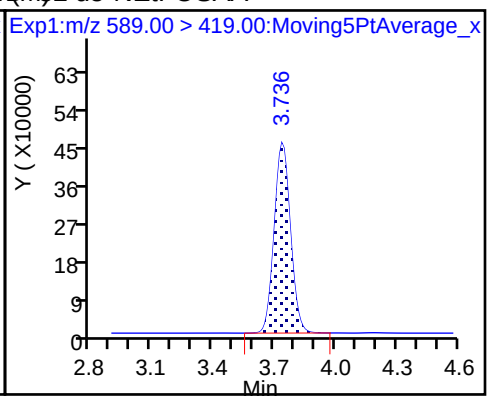
D 27 d3-NMeFOSAA



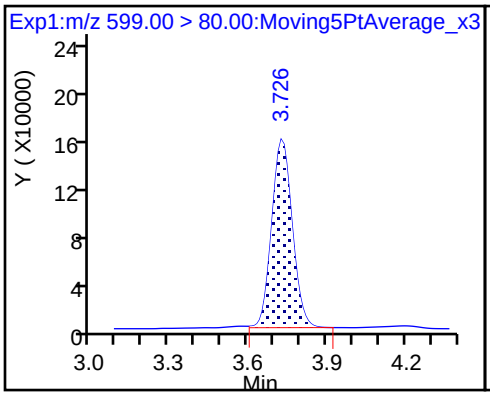
28 N-methyl perfluorooctane sulfonamid



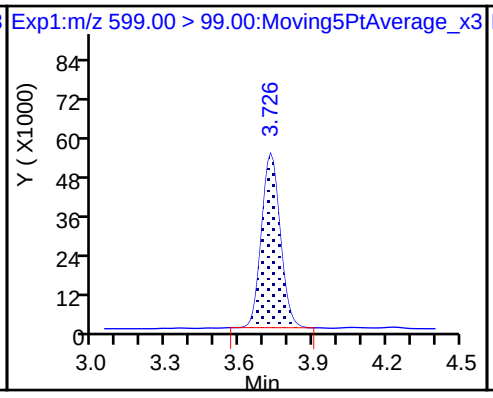
D 32 d5-NEtFOSAA



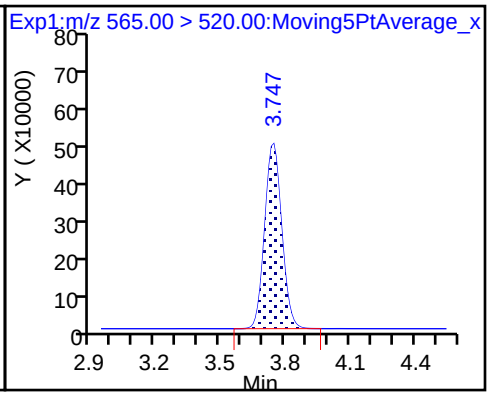
29 Perfluorodecane Sulfonic acid



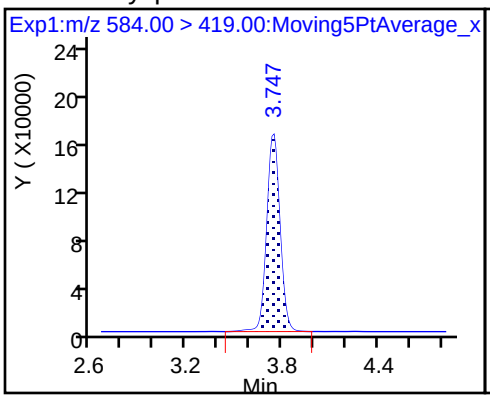
29 Perfluorodecane Sulfonic acid



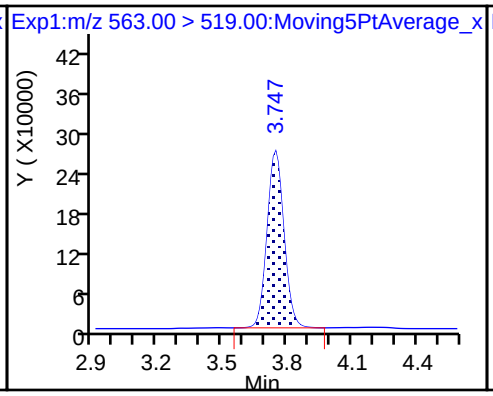
D 30 13C2 PFUnA



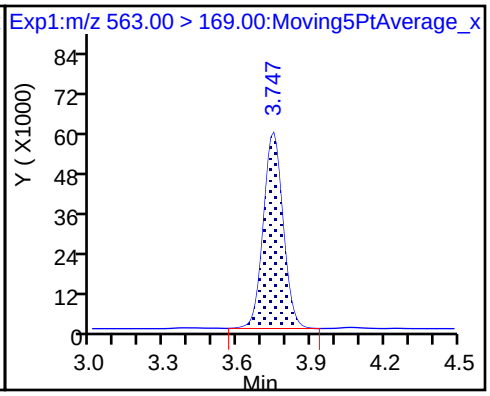
33 N-ethyl perfluorooctane sulfonamid



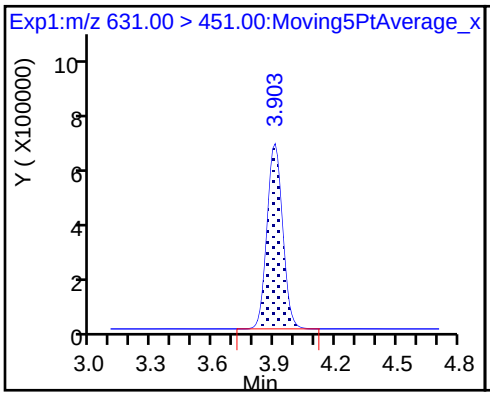
31 Perfluoroundecanoic acid



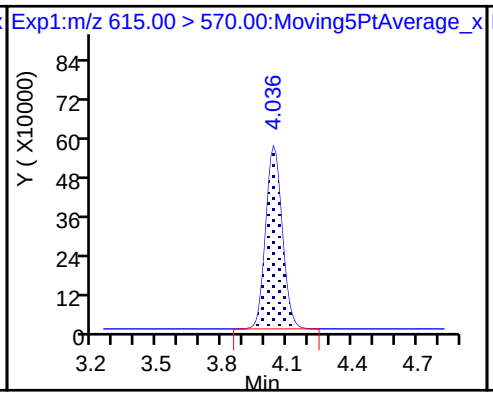
31 Perfluoroundecanoic acid



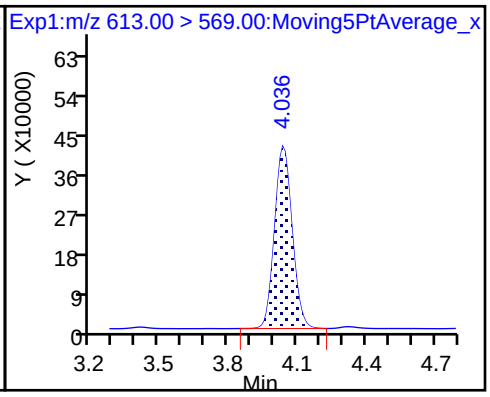
66 11-Chloroeicosafluoro-3-oxaundecan



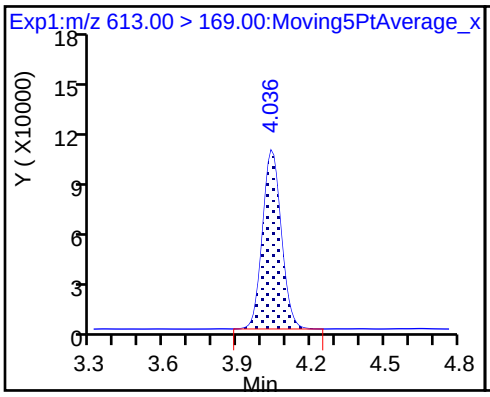
D 36 13C2 PFDoA



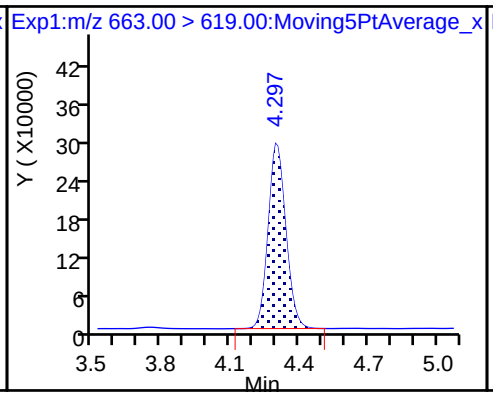
37 Perfluorododecanoic acid



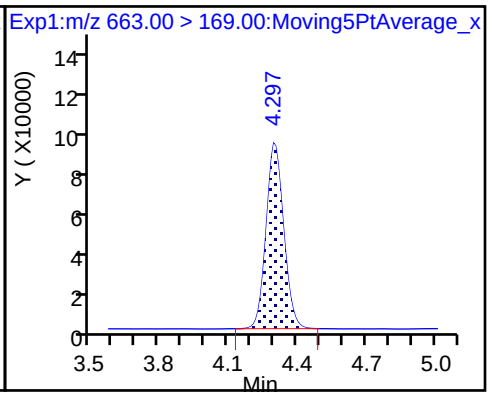
37 Perfluorododecanoic acid



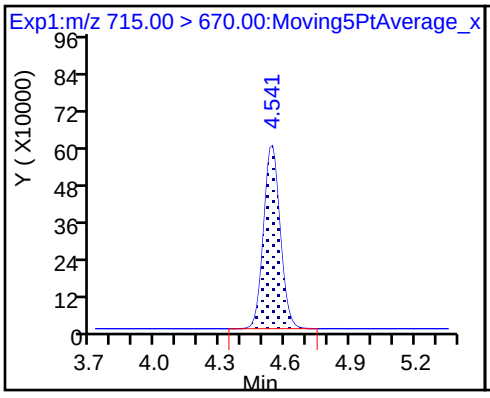
41 Perfluorotridecanoic acid



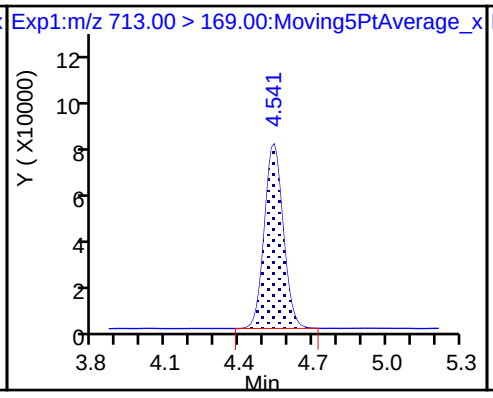
41 Perfluorotridecanoic acid



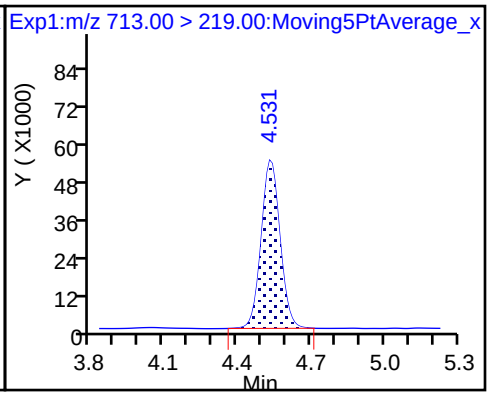
D 43 13C2-PFTeDA



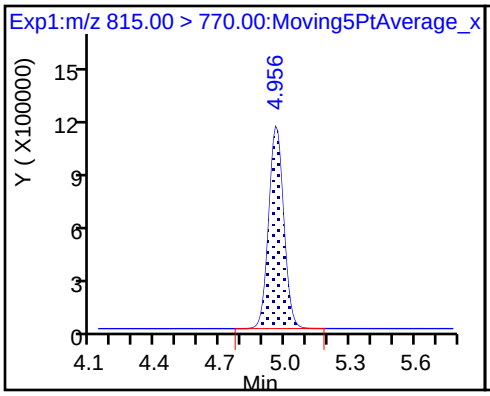
42 Perfluorotetradecanoic acid



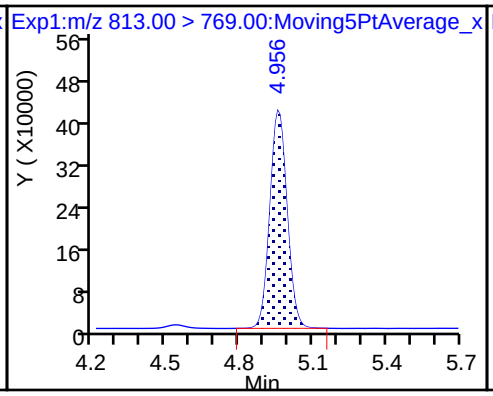
42 Perfluorotetradecanoic acid



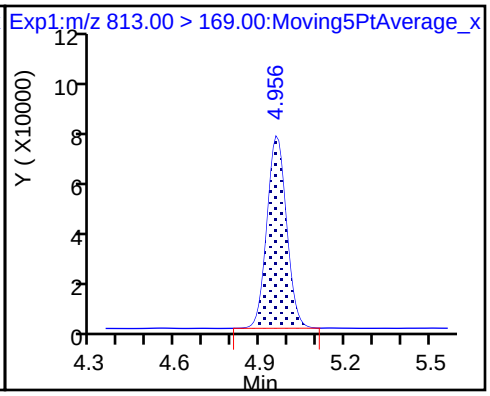
D 44 13C2-PFHxDA



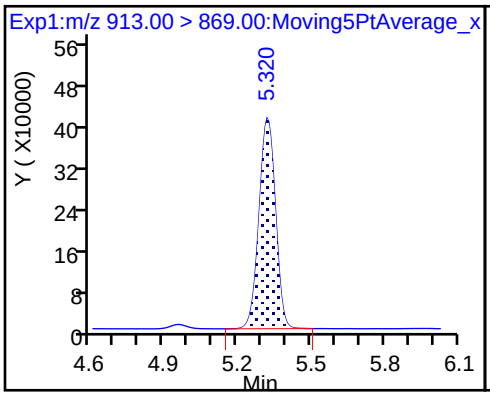
45 Perfluorohexadecanoic acid



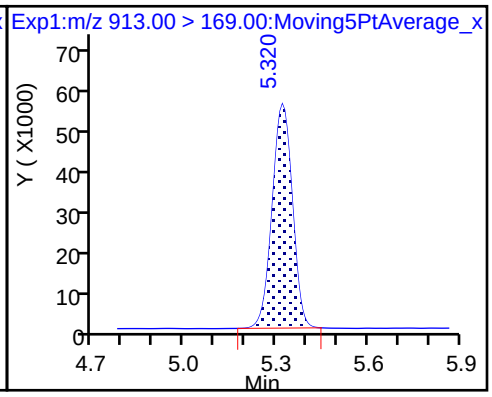
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

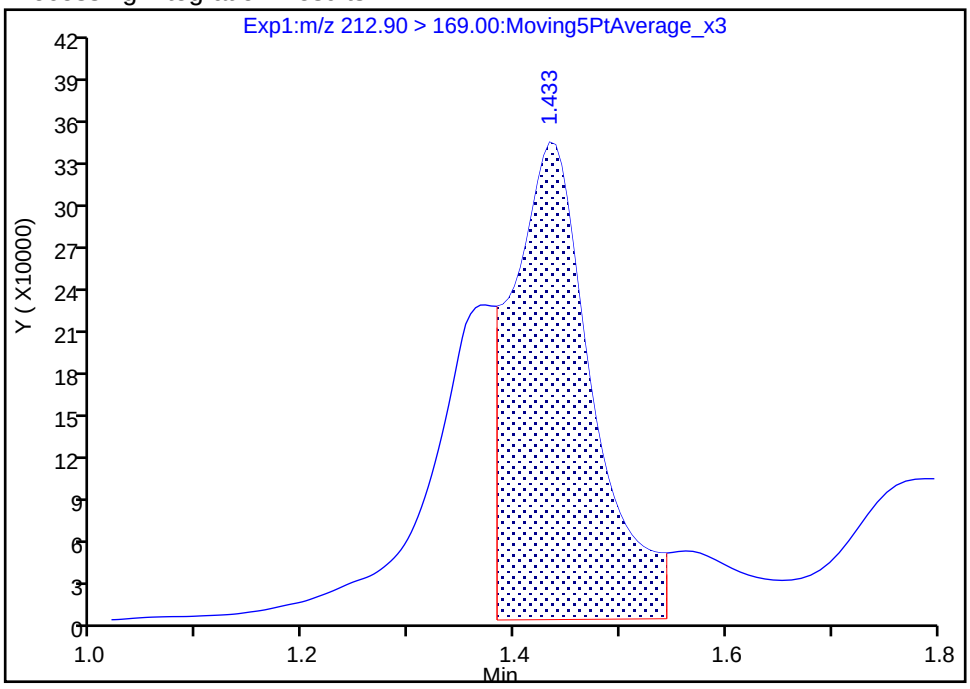
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N
Lims ID: 320-37224-A-2-C MSD
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

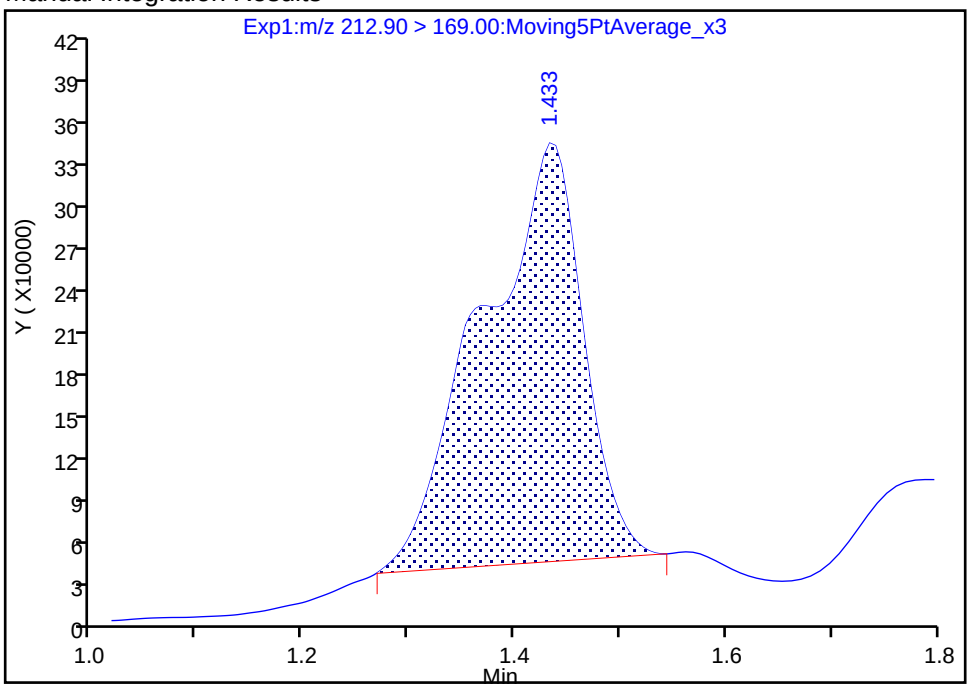
Processing Integration Results

RT: 1.43
Area: 1767948
Amount: 1.251670
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 1976584
Amount: 1.399380
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

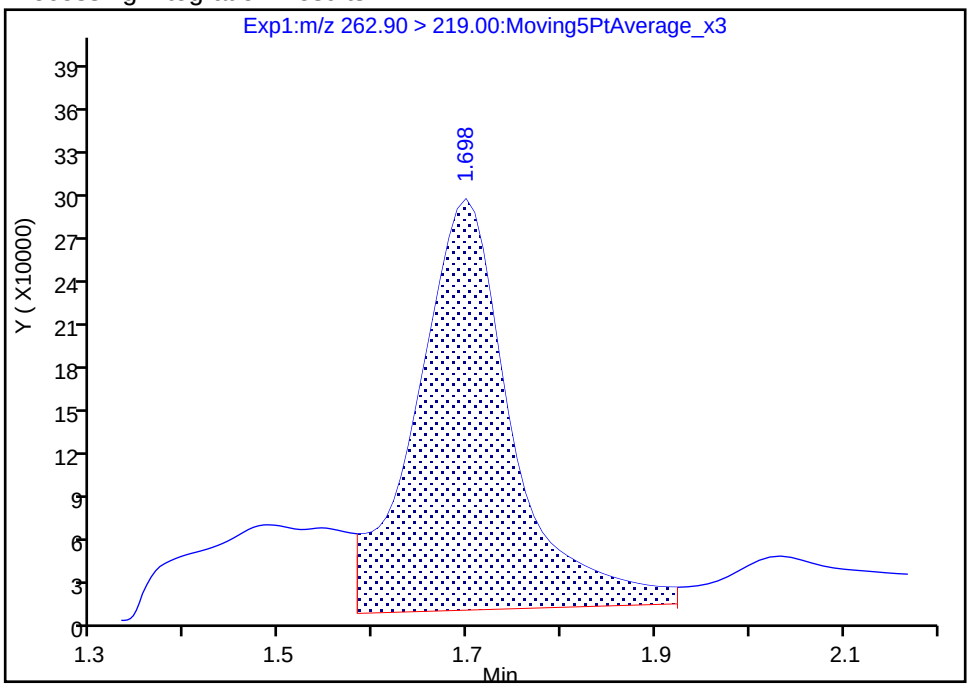
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N
Lims ID: 320-37224-A-2-C MSD
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

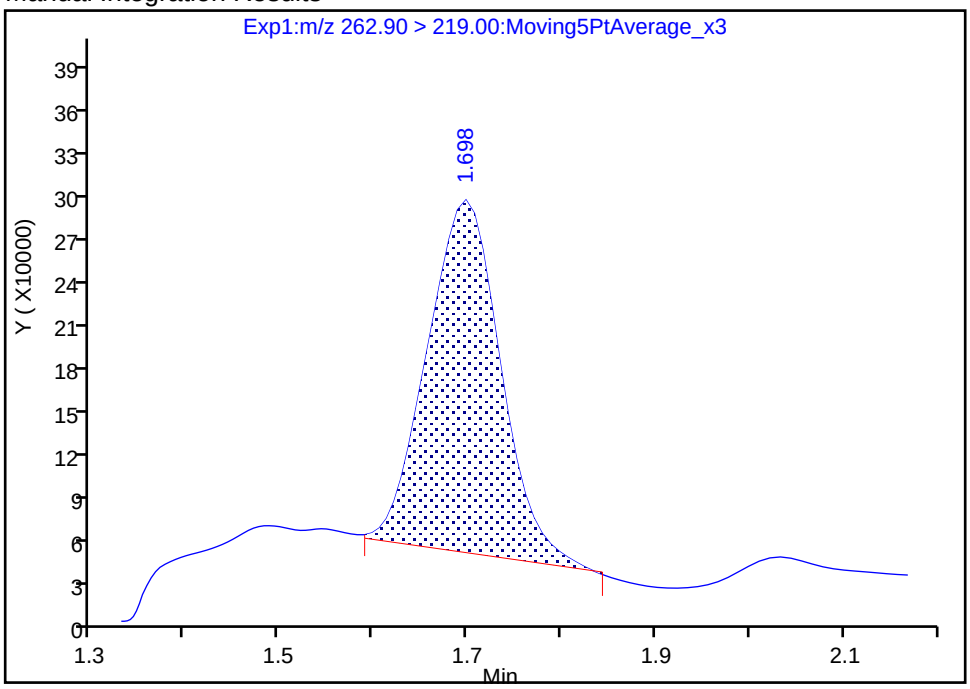
Processing Integration Results

RT: 1.70
Area: 2037651
Amount: 1.443639
Amount Units: ng/ml



Manual Integration Results

RT: 1.70
Area: 1346632
Amount: 0.954064
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:05:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

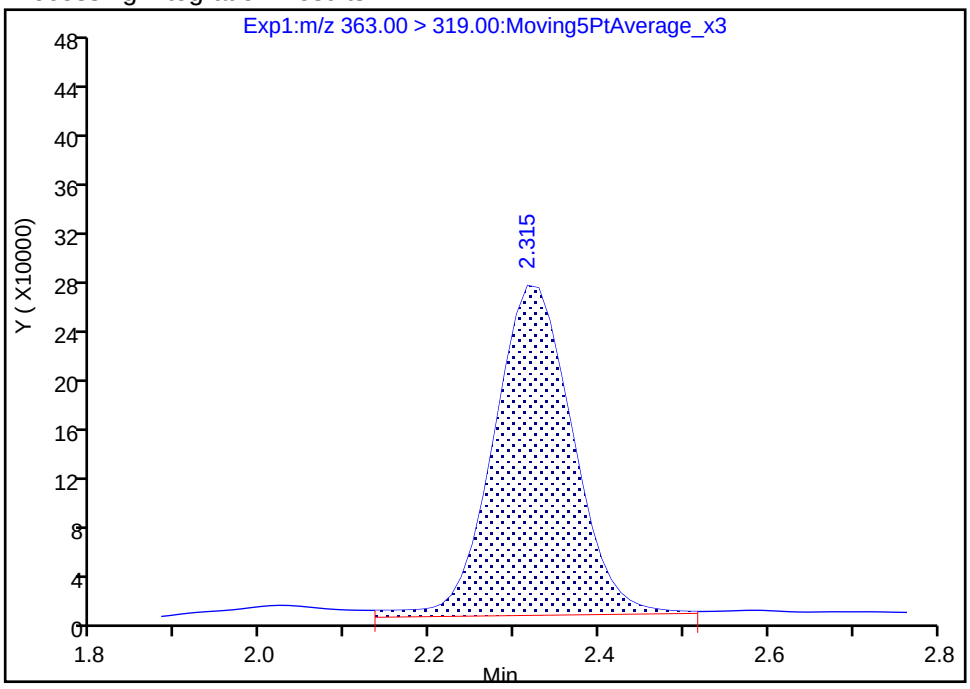
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N
Lims ID: 320-37224-A-2-C MSD
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

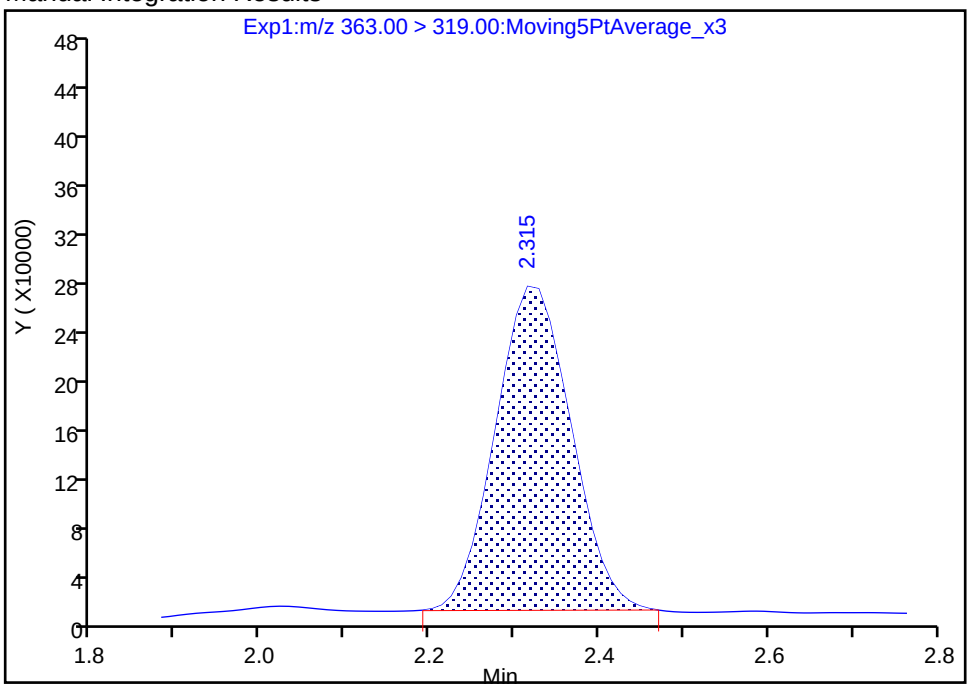
Processing Integration Results

RT: 2.32
Area: 1766239
Amount: 1.200303
Amount Units: ng/ml



Manual Integration Results

RT: 2.32
Area: 1660482
Amount: 1.128432
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:06:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

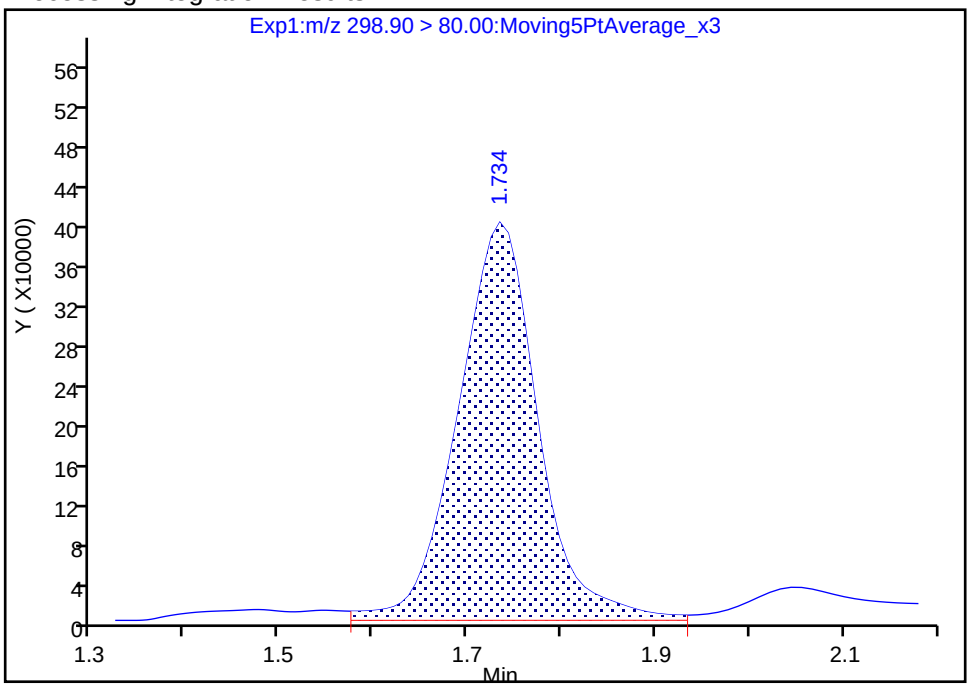
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d				
Injection Date:	30-Mar-2018 18:40:03	Instrument ID:	A8_N		
Lims ID:	320-37224-A-2-C MSD				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	31	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

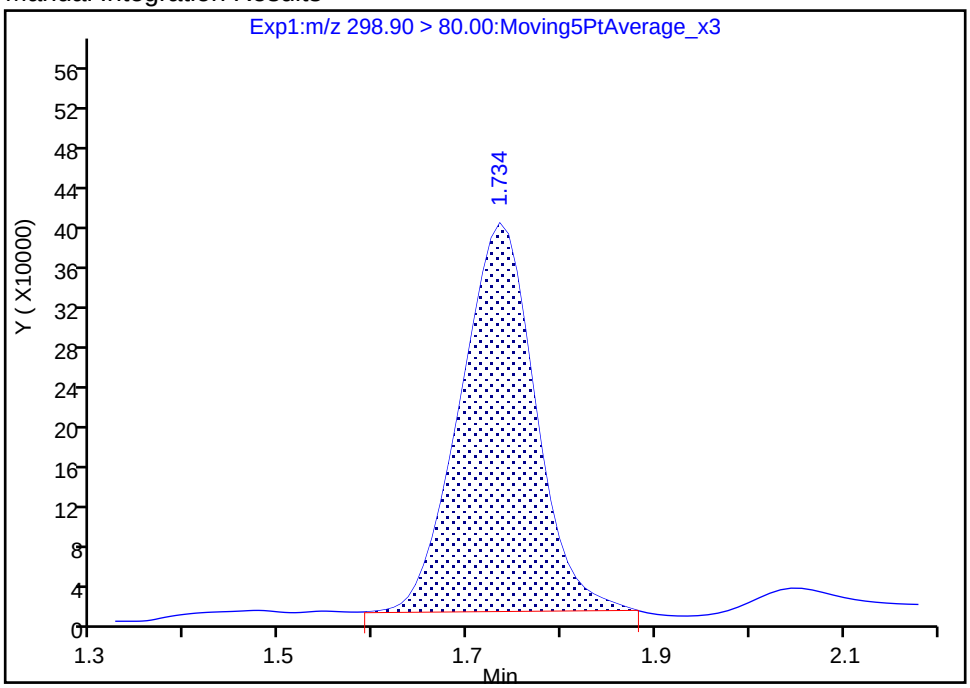
Processing Integration Results

RT: 1.73
Area: 2364609
Amount: 0.963774
Amount Units: ng/ml



Manual Integration Results

RT: 1.73
Area: 2166164
Amount: 0.882891
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:05:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

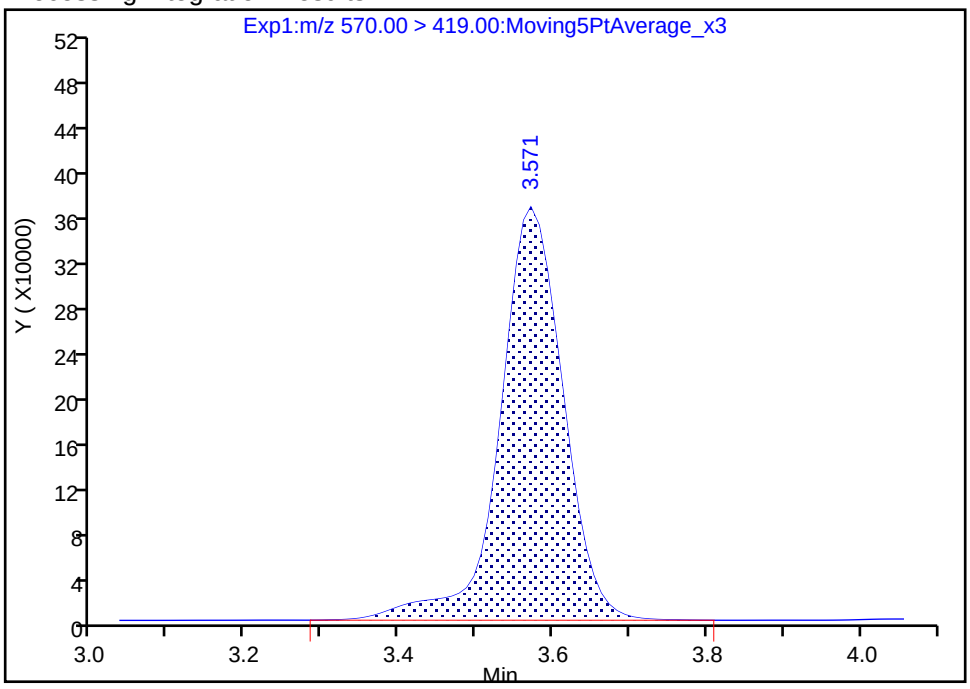
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N
Lims ID: 320-37224-A-2-C MSD
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

28 N-methyl perfluorooctane sulfonamidoacetic a, CAS: 2355-31-9

Signal: 1

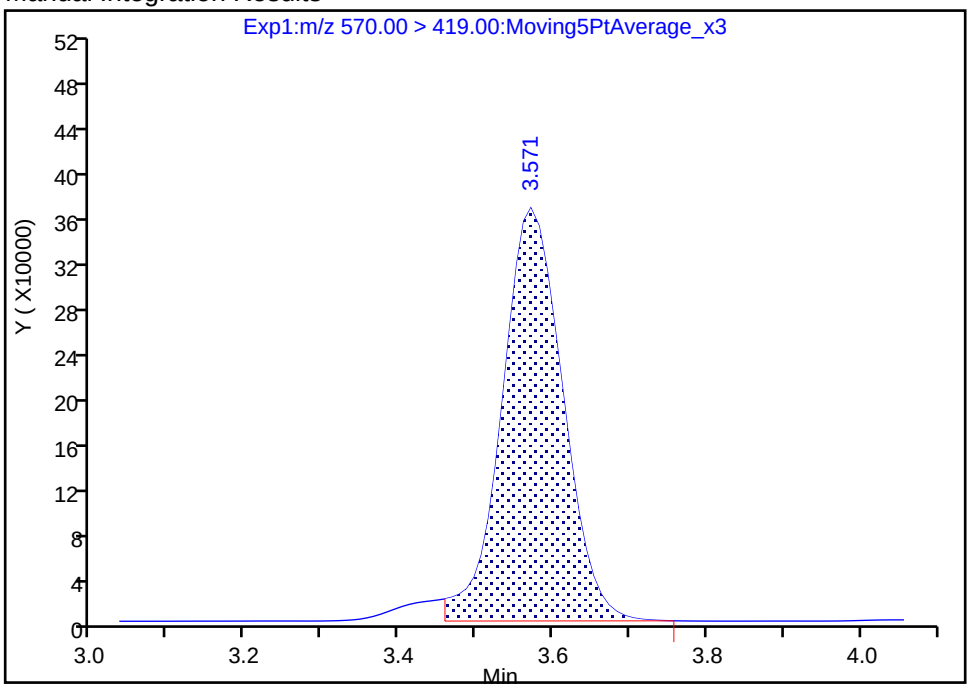
Processing Integration Results

RT: 3.57
Area: 2075969
Amount: 2.237625
Amount Units: ng/ml



Manual Integration Results

RT: 3.57
Area: 1994058
Amount: 2.149336
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:06:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

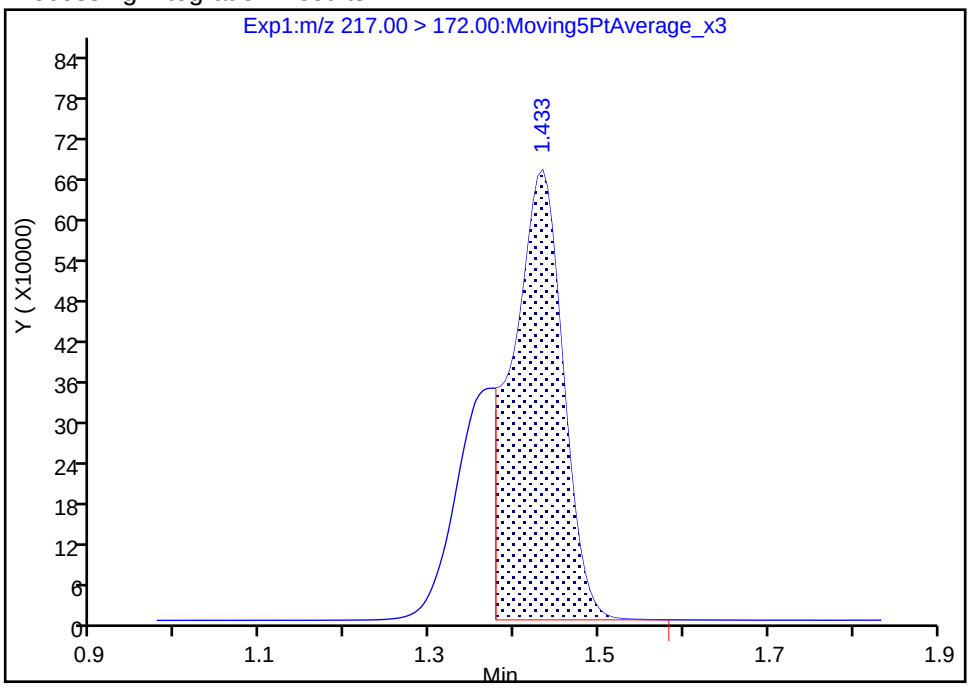
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b\2018.03.30LLBXZAG_042.d
Injection Date: 30-Mar-2018 18:40:03 Instrument ID: A8_N
Lims ID: 320-37224-A-2-C MSD
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

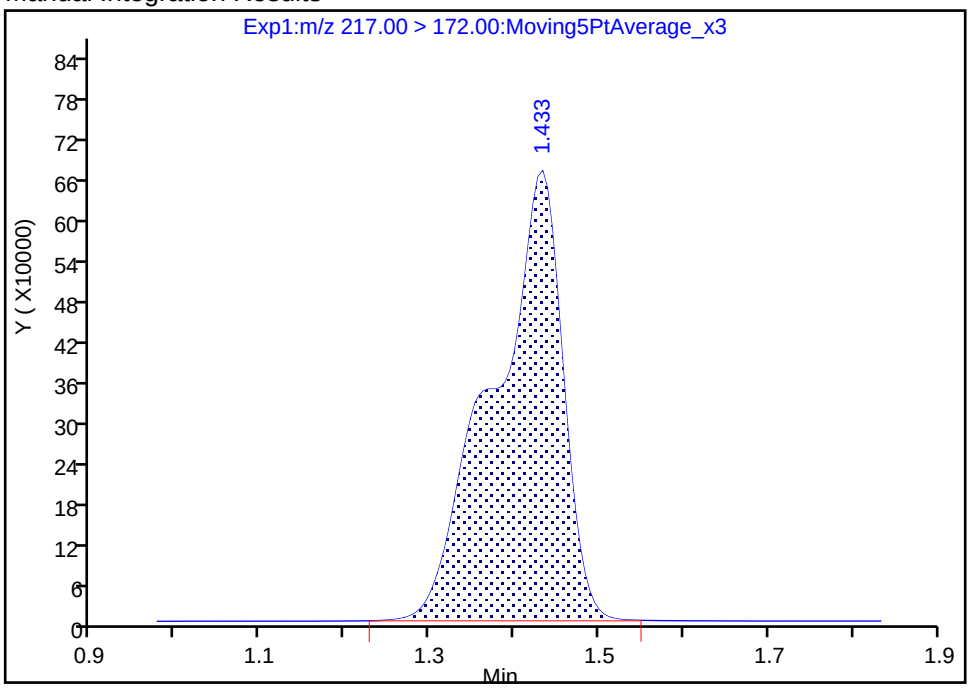
Processing Integration Results

RT: 1.43
Area: 2736040
Amount: 0.887516
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 3820883
Amount: 1.239418
Amount Units: ng/ml



Reviewer: barnettj, 02-Apr-2018 11:04:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-37224-1

SDG No.:

Client Sample ID: Ash Pit MSD RE | Lab Sample ID: 320-37224-2 MSD RE

Matrix: Solid | Lab File ID: 2018.04.06LLA_011.d

Analysis Method: 537 (modified) | Date Collected: 03/16/2018 09:45

Extraction Method: SHAKE | Date Extracted: 04/02/2018 14:27

Sample wt/vol: 5.08(g) | Date Analyzed: 04/06/2018 14:47

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: 59.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 216698 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	*6:2FTS*	*0.00466*	*J*	*0.0048*	*0.00036*

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2FTS	223	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_011.d
Lims ID: 320-37224-A-2-F MSD
Client ID:
Sample Type: MSD
Inject. Date: 06-Apr-2018 14:47:19 ALS Bottle#: 5 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-37224-A-2-F MSD
Misc. Info.: Plate: 1 Rack: 5
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 07-Apr-2018 11:31:31 Calib Date: 29-Mar-2018 18:14:21
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180330-56010.b\2018.03.29A_ICALB_008.d

Column 1 : Det: EXP1
Process Host: XAWRK028

First Level Reviewer: roycea Date: 07-Apr-2018 11:31:31

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.425	1.430	-0.005	1.004	2024005	1.78		178	29.2	M
D 1 13C4 PFBA										
217.00 > 172.00	1.419	1.430	-0.011	1.000	3070439	1.06		42.3	10461	
D 3 13C5-PFPeA										
267.90 > 223.00	1.685	1.694	-0.009	0.560	2520209	1.33		53.3	7447	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.685	1.702	-0.017	1.000	1455490	1.21		121	35.1	M
D 47 13C3-PFBS										
301.90 > 83.00	1.721	1.730	-0.009	1.000	62015	1.43		61.6	38.0	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.721	1.738	-0.017	1.000	2178465	1.04		117	86.4	M
298.90 > 99.00	1.721	1.738	-0.017	1.000	803352		2.71(1.25-3.74)		874	
D 60 M2-4:2FTS										
329.00 > 81.00	2.004	1.939	0.065	1.000	151515	0.4580		0.0	20.9	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.939	1.949	-0.010	1.000	1186850	2.58		276	7367	
D 7 13C2 PFHxA										
315.00 > 270.00	1.960	1.971	-0.011	1.000	2831774	1.36		54.3	24798	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.960	1.981	-0.021	1.000	2179461	1.88		188	176	
313.00 > 119.00	1.971	1.981	-0.010	1.005	188406		11.57(5.03-15.10)		492	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	1.982	2.003	-0.021	1.000	2022738	1.07		114	484	
349.00 > 99.00	1.982	2.003	-0.021	1.000	701412		2.88(1.36-4.07)		1972	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.061	2.082	-0.021	1.000	197870	NR		0.0	83.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.295	2.306	-0.011	1.000	2434929	1.87		187	344	
363.00 > 169.00	2.295	2.306	-0.011	1.000	860351		2.83(1.13-3.40)		1838	
D 9 13C4-PFHpA										
367.00 > 322.00	2.295	2.308	-0.013	1.000	3000767	1.50		59.9	34464	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.308	2.319	-0.011	1.000	4054092	2.01		221	681	
399.00 > 99.00	2.308	2.319	-0.011	1.000	1255688		3.23(1.50-4.49)		931	
D 11 18O2 PFHxS										
403.00 > 84.00	2.308	2.321	-0.013	1.000	4262913	1.71		72.1	9957	
65 Adona										
377.00 > 251.00	2.334	2.345	-0.011	1.000	3215642	0.6612		66.1	15152	
377.00 > 85.00	2.334	2.345	-0.011	1.000	1970840		1.63(0.84-2.53)		2722	
D 12 M2-6:2FTS										
429.00 > 81.00	2.619	2.629	-0.010	1.000	2453849	5.30		223	1633	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.619	2.636	-0.017	1.000	1862676	0.9653		102	10696	
* 62 13C2-PFOA										
415.00 > 370.00	2.643	2.660	-0.017		5257519	2.50			67943	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.643	2.660	-0.017	1.000	9601599	5.83		583	1397	
413.00 > 169.00	2.643	2.660	-0.017	1.000	5148319		1.86(0.84-2.52)		10885	
D 14 13C4 PFOA										
417.00 > 372.00	2.643	2.660	-0.017	1.000	3474400	1.76		70.5	44275	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.652	2.667	-0.015	1.000	1726174	0.9492		99.7	1104	
449.00 > 99.00	2.652	2.667	-0.015	1.000	430291		4.01(1.94-5.82)		1009	
D 18 13C4 PFOS										
503.00 > 80.00	3.007	3.021	-0.014	1.000	3261385	1.88		78.6	3638	
D 19 13C5 PFNA										
468.00 > 423.00	3.007	3.028	-0.021	1.000	3261112	1.96		78.2	41439	
20 Perfluorononanoic acid										
463.00 > 419.00	3.014	3.030	-0.016	1.002	4219140	3.14		314	2457	
463.00 > 169.00	3.007	3.030	-0.023	1.000	1029065		4.10(1.90-5.69)		12058	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.014	3.030	-0.016	1.002	13569103	8.70		938	3587	M
499.00 > 99.00	3.014	3.030	-0.016	1.002	3011138		4.51(2.31-6.93)		8087	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.220	3.238	-0.018	1.000	2275867	0.8919		95.7	7238	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.356	0.009	1.000	3583288	1.46		58.4	37184	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.365	3.368	-0.003	1.000	1677909	1.19		119	20631	
D 26 M2-8:2FTS										
529.00 > 81.00	3.355	3.374	-0.019	1.000	3764253	6.99		292	2792	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.355	3.378	-0.023	1.000	1054406	0.9637		100	936	
549.00 > 99.00	3.355	3.378	-0.023	1.000	365157		2.89(1.33-3.97)		2171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.355	3.378	-0.023	1.000	2337217	1.10		115	42995	
D 23 13C2 PFDA										
515.00 > 470.00	3.374	3.384	-0.010	1.000	3373049	2.39		95.8	52010	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.374	3.387	-0.013	1.000	7675621	5.75		575	5677	
513.00 > 169.00	3.374	3.387	-0.013	1.000	1396303		5.50(2.36-7.09)		10002	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.524	3.542	-0.018	1.000	1877180	2.49		99.7	7212	
28 N-methyl perfluorooctane sulfonami										M
570.00 > 419.00	3.524	3.546	-0.022	1.000	3890277	4.91		491	939	M
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.679	3.696	-0.017	1.000	864469	0.9131		94.7	611	
599.00 > 99.00	3.679	3.696	-0.017	1.000	262900		3.29(1.39-4.16)		1721	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.711	-0.021	1.000	2044852	2.59		103	4881	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.700	3.717	-0.017	1.003	944077	1.26		126	13652	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.700	3.717	-0.017	1.000	2278865	2.57		257	2637	
563.00 > 169.00	3.700	3.717	-0.017	1.000	483201		4.72(2.12-6.36)		4711	
D 30 13C2 PFUnA										
565.00 > 520.00	3.700	3.722	-0.022	1.000	2768219	2.41		96.3	36641	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.857	3.874	-0.017	1.000	3174063	0.8014		85.1	20518	
35 MeFOSA										
512.00 > 169.00	3.868	3.875	-0.007		38732	NC			25.1	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	4.007	-0.018	1.000	2829754	2.32		232	1079	
613.00 > 169.00	3.989	4.007	-0.018	1.000	699850		4.04(2.13-6.40)		3929	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	4.011	-0.022	1.000	2818051	2.20		88.1	23236	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.253	4.270	-0.017	1.000	1598408	1.23		123	756	
663.00 > 169.00	4.253	4.270	-0.017	1.000	503057		3.18(1.25-3.76)		2075	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.511	-0.020	1.000	380253	1.34		134	1993	
713.00 > 219.00	4.480	4.511	-0.031	0.998	276455		1.38(0.71-2.13)		1010	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.513	-0.022	1.000	2838842	1.75		69.8	11985	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.922	-0.017	1.002	1624819	1.06		106	471	
813.00 > 169.00	4.896	4.922	-0.026	1.000	265295		6.12(2.86-8.58)		714	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.933	-0.037	1.000	3965877	1.58		63.2	8123	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.248	5.277	-0.029	1.000	1426080	0.9055		90.5	521	
913.00 > 169.00	5.248	5.277	-0.029	1.000	179182		7.96(3.83-11.48)		550	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Report Date: 07-Apr-2018 11:31:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b\2018.04.06LLA_011.d

Injection Date: 06-Apr-2018 14:47:19 Instrument ID: A8_N

Lims ID: 320-37224-A-2-F MSD

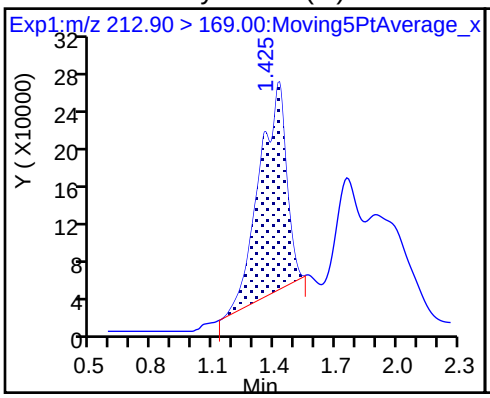
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 5 Worklist Smp#: 9

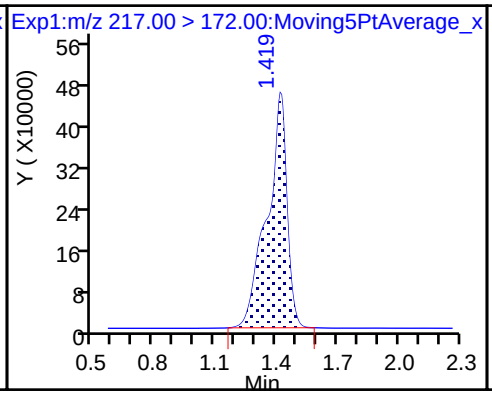
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

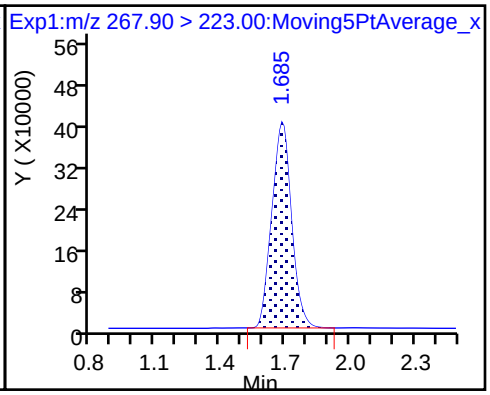
2 Perfluorobutyric acid (M)



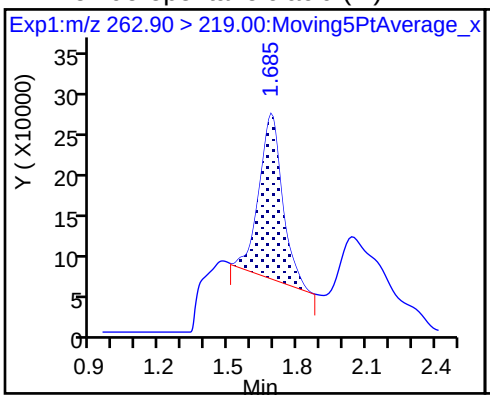
D 1 13C4 PFBA



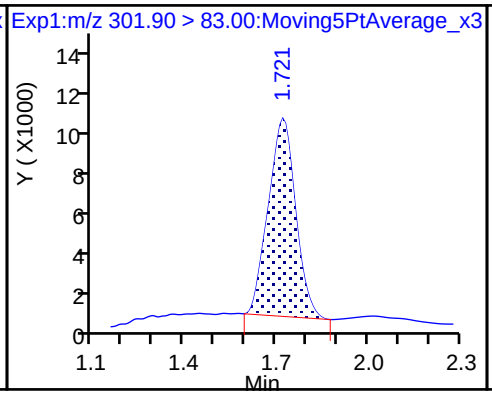
D 3 13C5-PFPeA



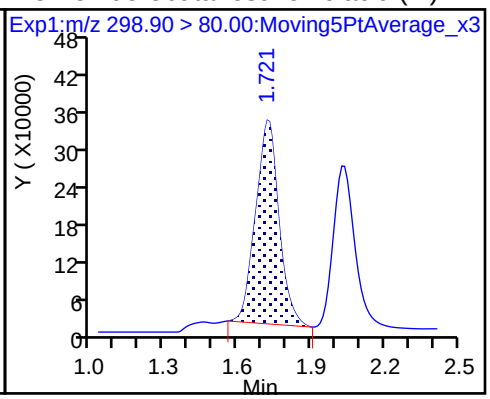
4 Perfluoropentanoic acid (M)



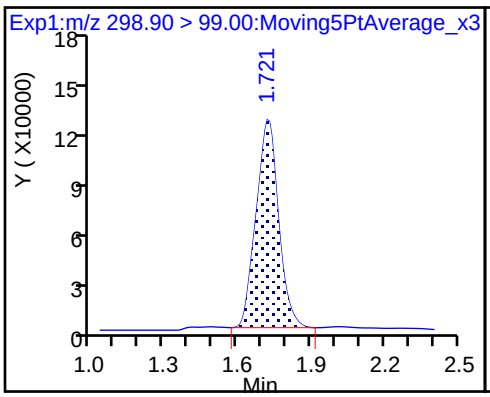
D 47 13C3-PFBS



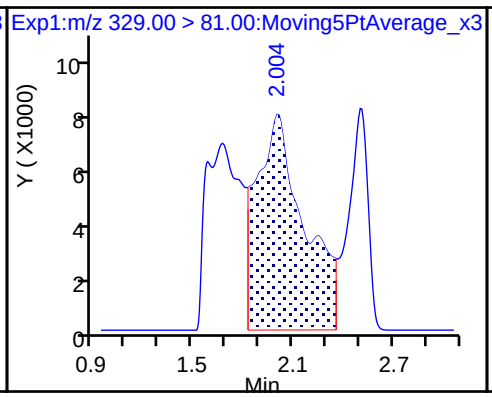
5 Perfluorobutanesulfonic acid (M)



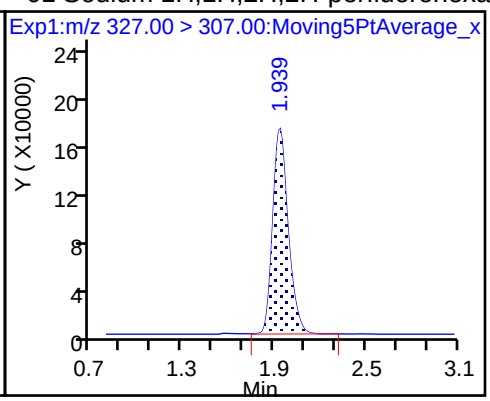
5 Perfluorobutanesulfonic acid



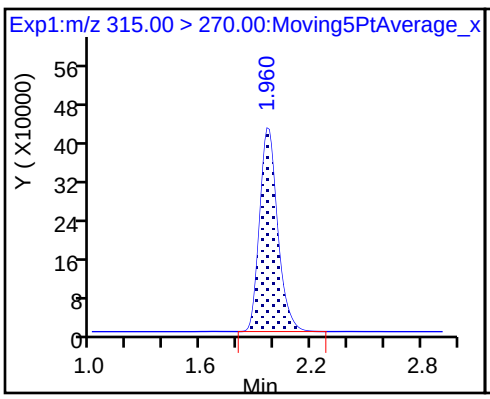
D 60 M2-4:2FTS



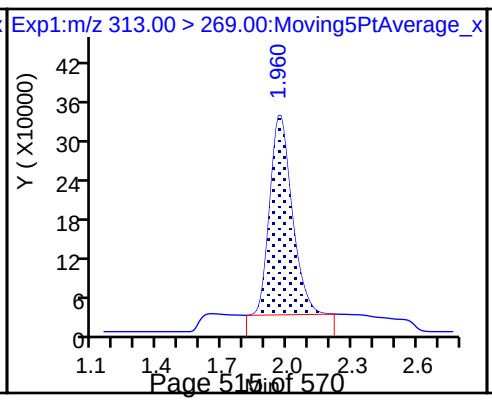
61 Sodium 1H,1H,2H,2H-perfluorohexane



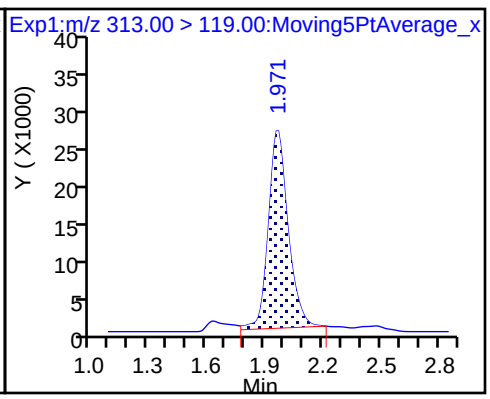
D 7 13C2 PFHxA



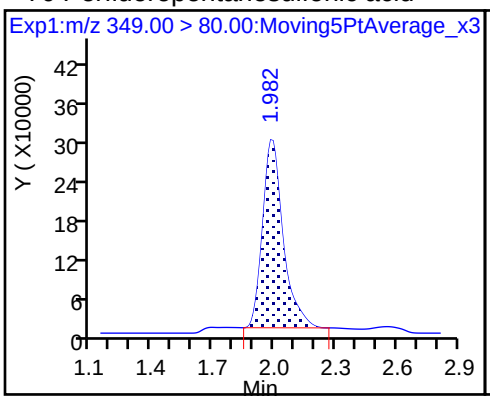
6 Perfluorohexanoic acid



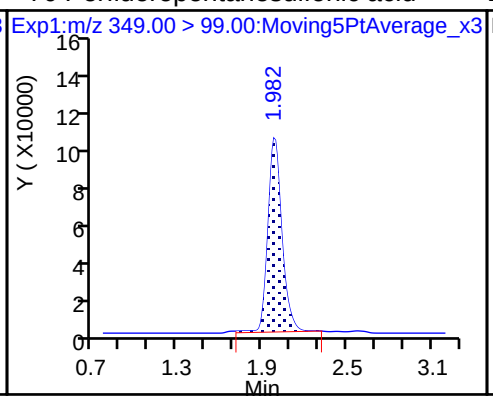
6 Perfluorohexanoic acid



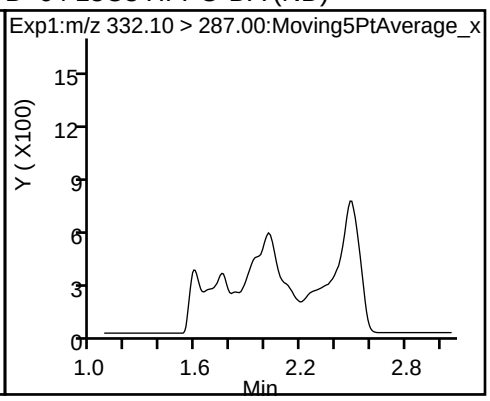
70 Perfluoropentanesulfonic acid



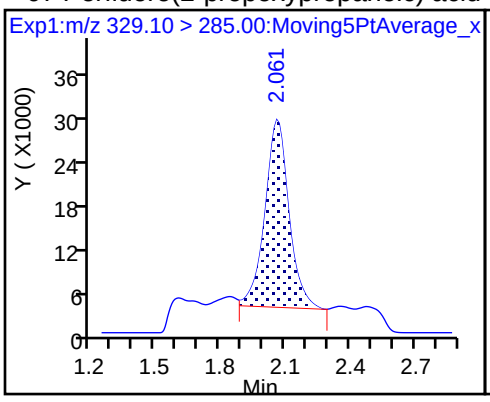
70 Perfluoropentanesulfonic acid



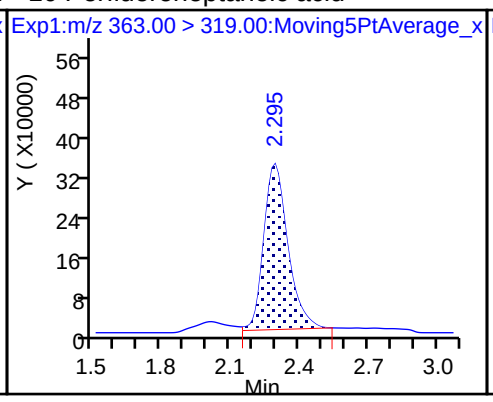
D 64 13C3 HFPO-DA (ND)



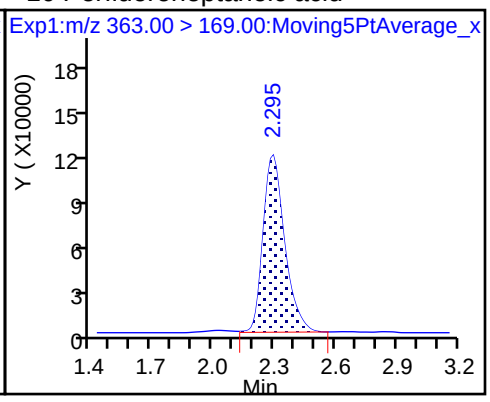
67 Perfluoro(2-propoxypropanoic) acid



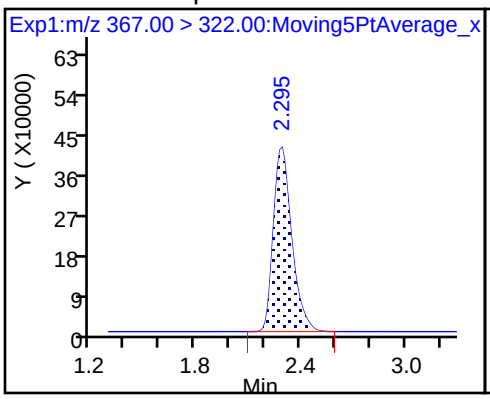
10 Perfluoroheptanoic acid



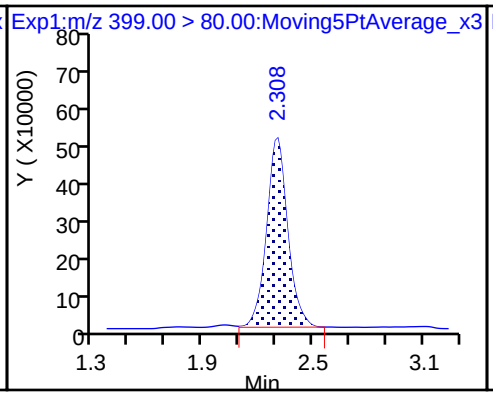
10 Perfluoroheptanoic acid



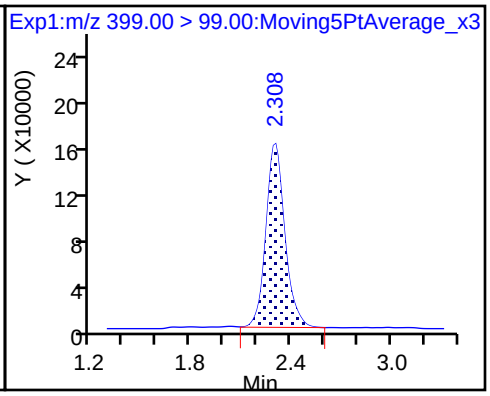
D 9 13C4-PFHpA



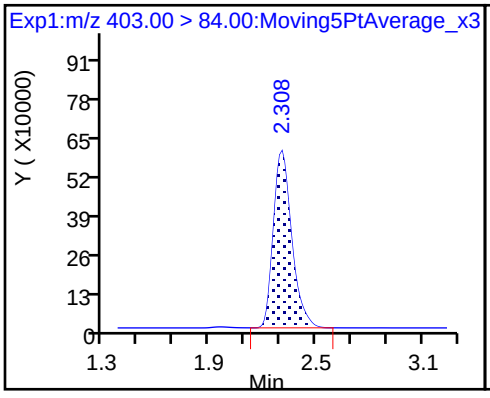
8 Perfluorohexanesulfonic acid



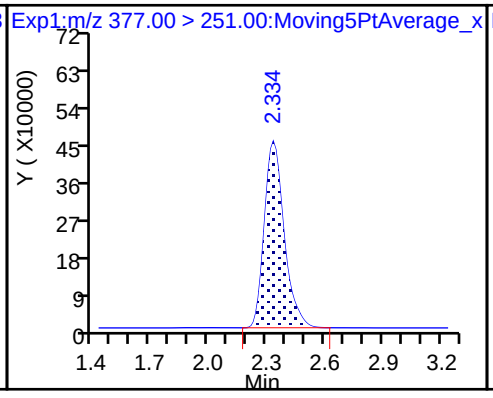
8 Perfluorohexanesulfonic acid



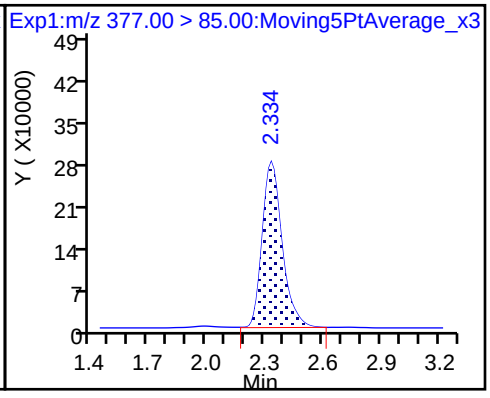
D 11 18O2 PFHxS



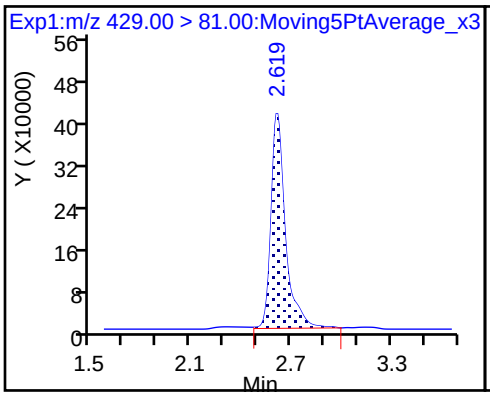
65 Adona



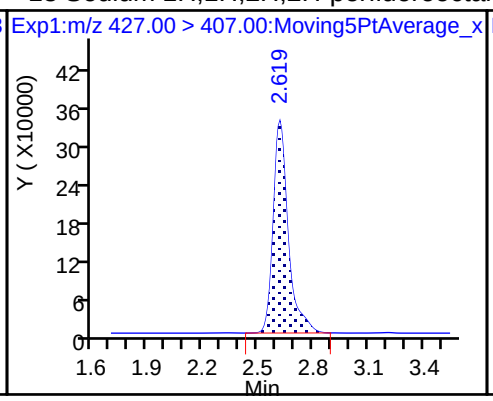
65 Adona



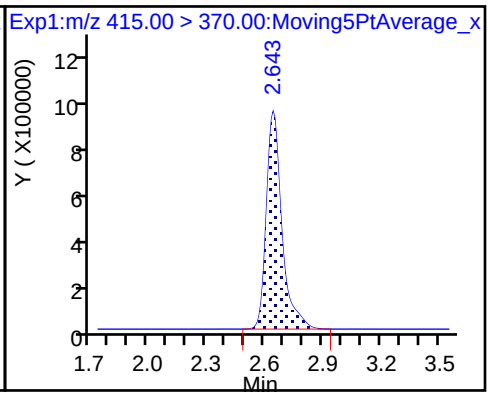
D 12 M2-6:2FTS



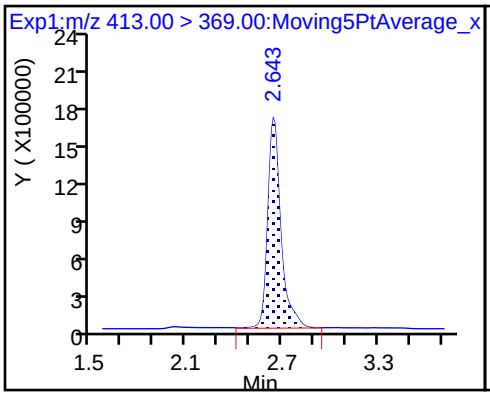
13 Sodium 1H,1H,2H,2H-perfluorooctane



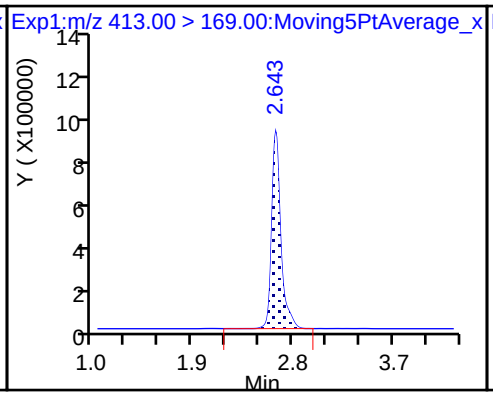
M62 13C2-PFOA



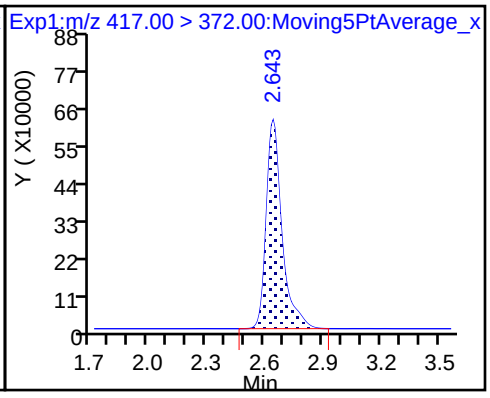
15 Perfluorooctanoic acid



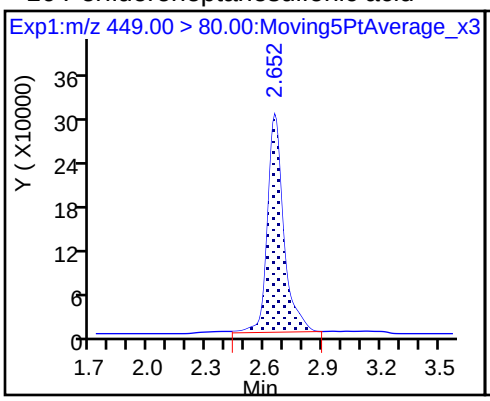
15 Perfluorooctanoic acid



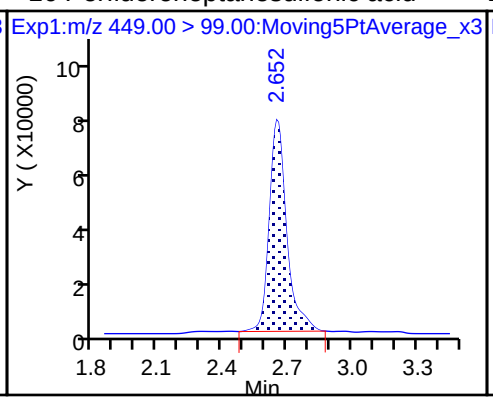
D 14 13C4 PFOA



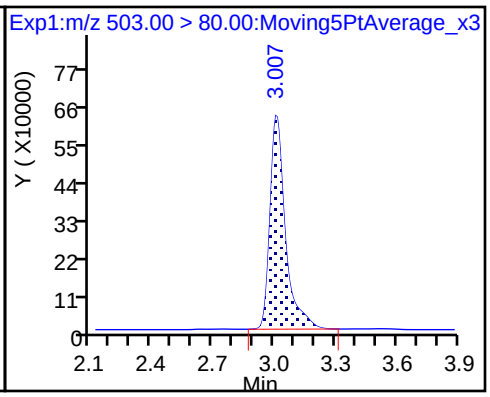
16 Perfluoroheptanesulfonic acid



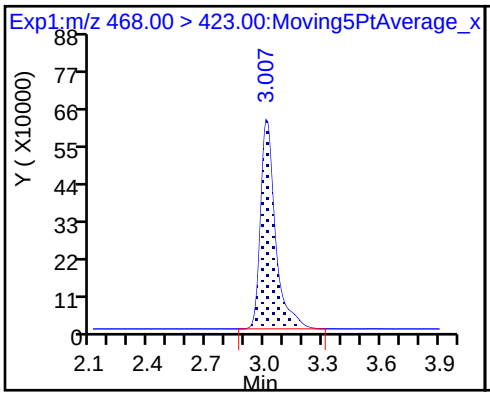
16 Perfluoroheptanesulfonic acid



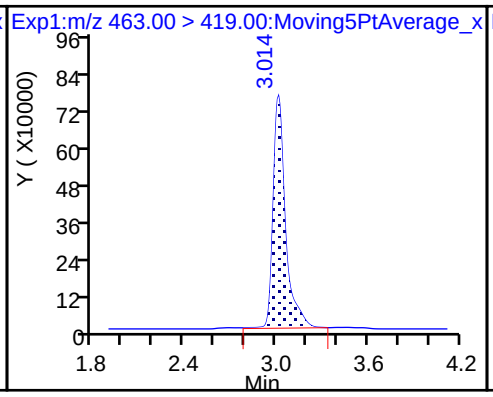
D 18 13C4 PFOS



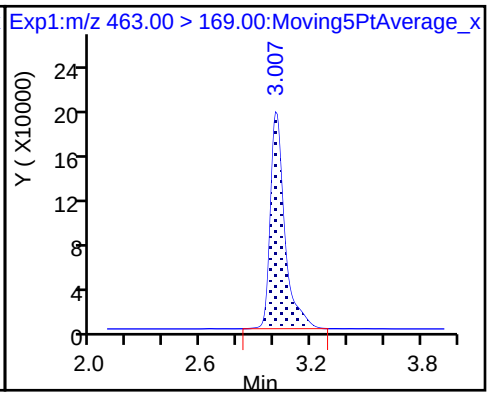
D 19 13C5 PFNA



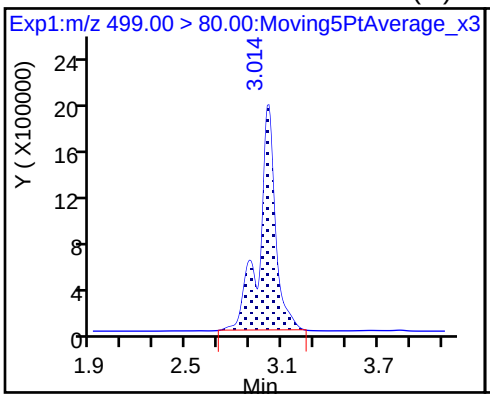
20 Perfluorononanoic acid



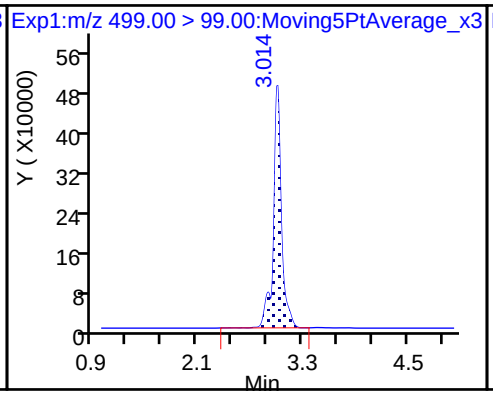
20 Perfluorononanoic acid



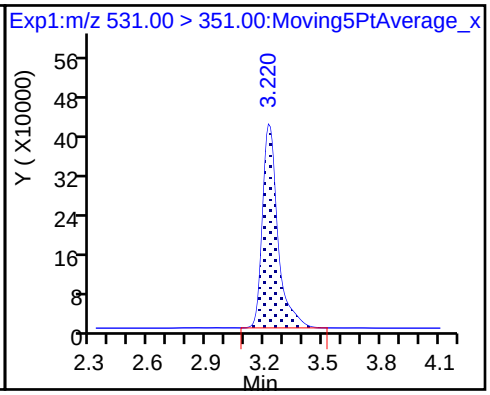
17 Perfluorooctane sulfonic acid (M)



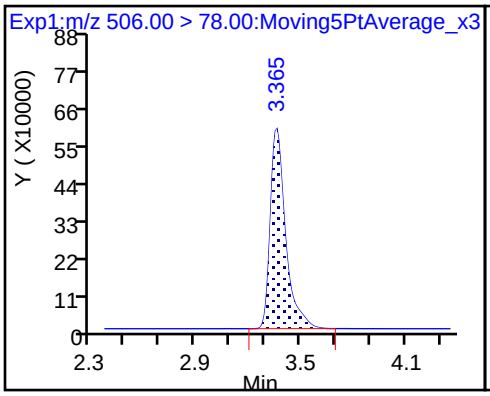
17 Perfluorooctane sulfonic acid



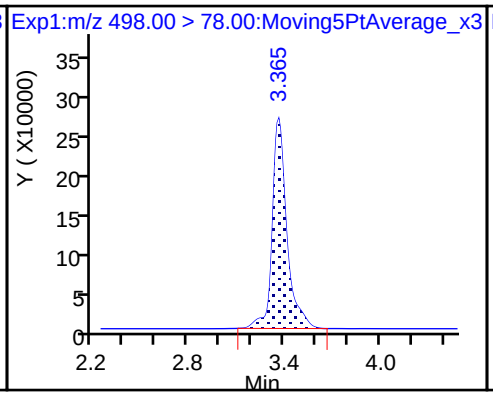
69 9-Chlorohexadecafluoro-3-oxanonane



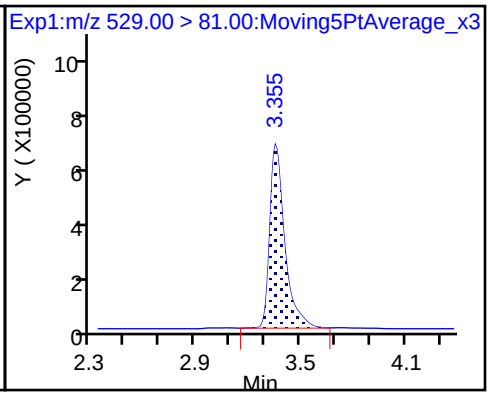
D 21 13C8 FOSA



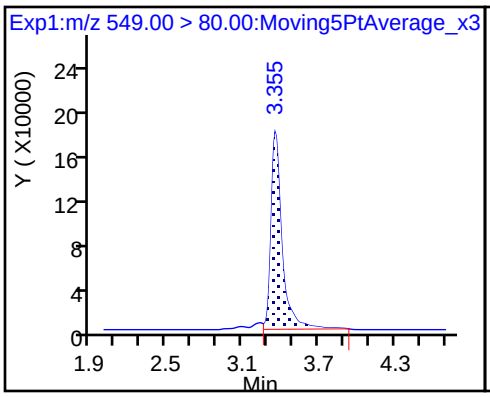
22 Perfluorooctane Sulfonamide



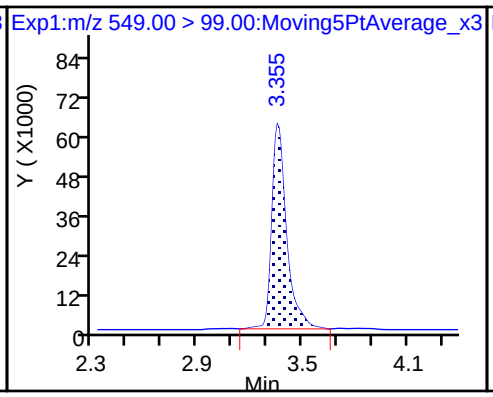
D 26 M2-8:2FTS



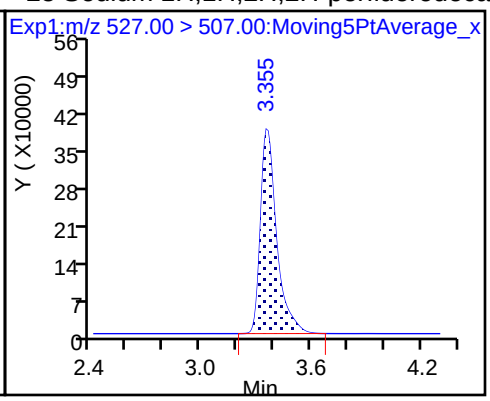
68 Perfluorononanesulfonic acid



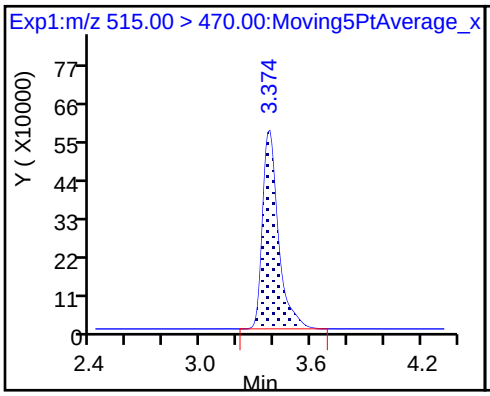
68 Perfluorononanesulfonic acid



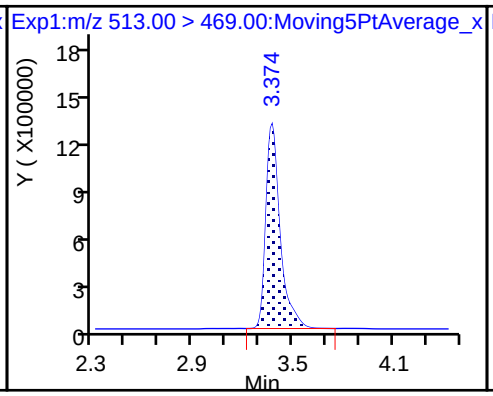
25 Sodium 1H,1H,2H,2H-perfluorodecane



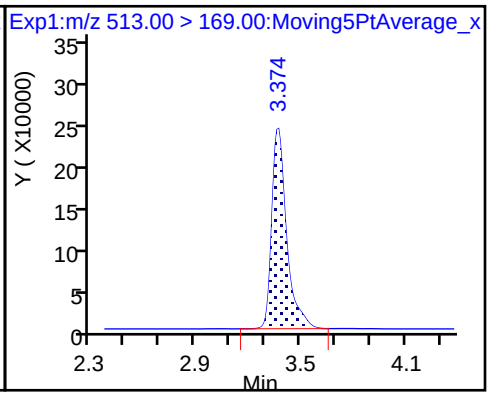
D 23 13C2 PFDA



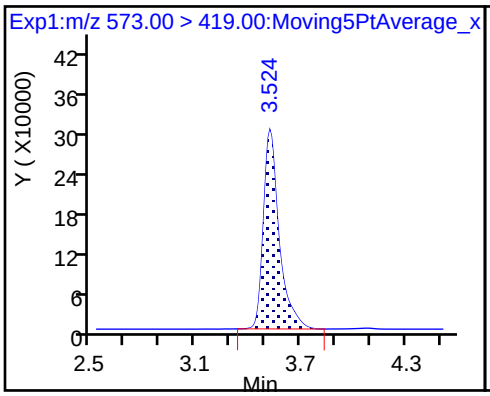
24 Perfluorodecanoic acid



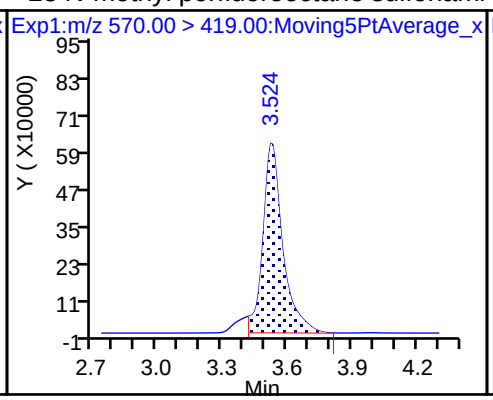
24 Perfluorodecanoic acid



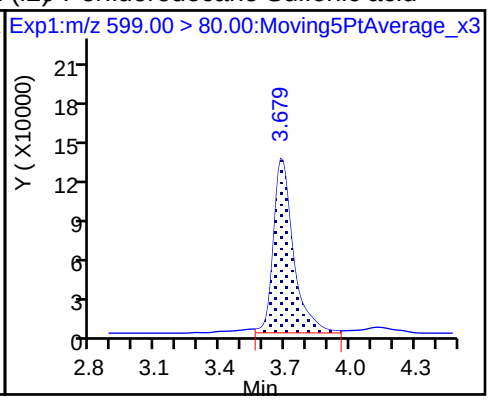
D 27 d3-NMeFOSAA



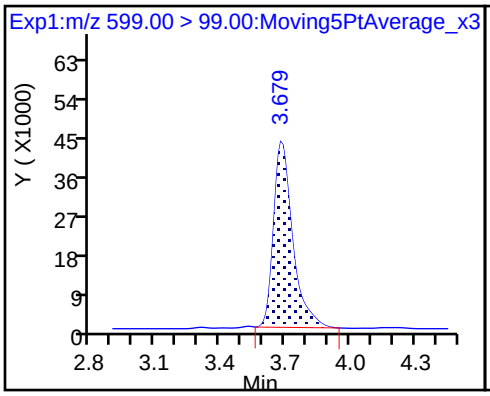
28 N-methyl perfluorooctane sulfonami (M)



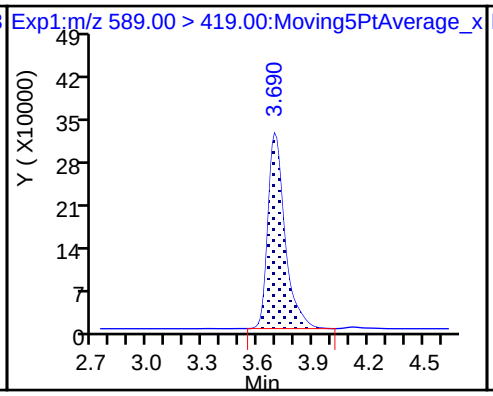
29 Perfluorodecane Sulfonic acid



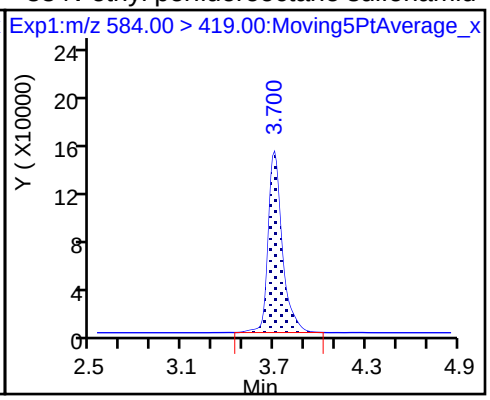
29 Perfluorodecane Sulfonic acid



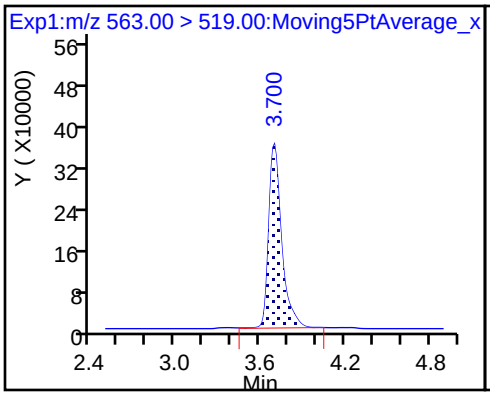
D 32 d5-NEtFOSAA



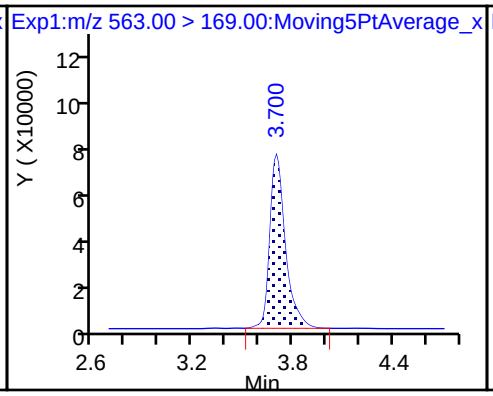
33 N-ethyl perfluorooctane sulfonamid



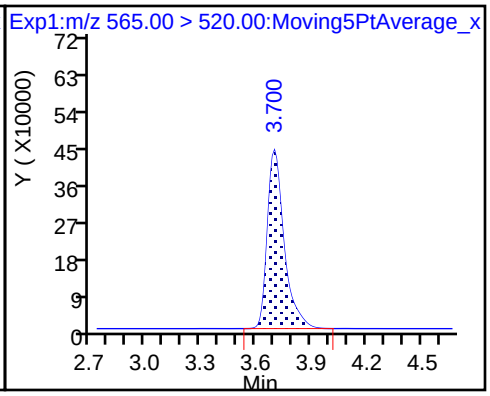
31 Perfluoroundecanoic acid



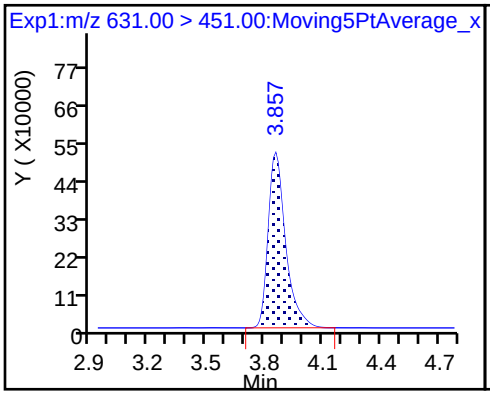
31 Perfluoroundecanoic acid



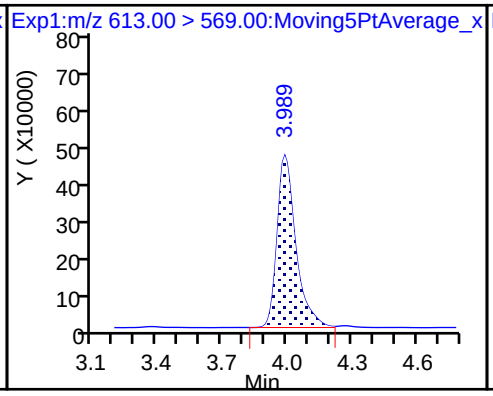
D 30 13C2 PFUnA



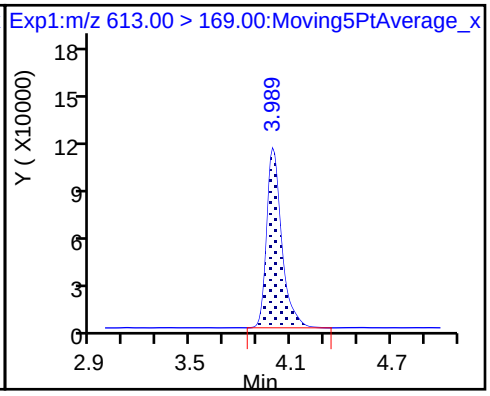
66 11-Chloroeicosafluoro-3-oxaundecan



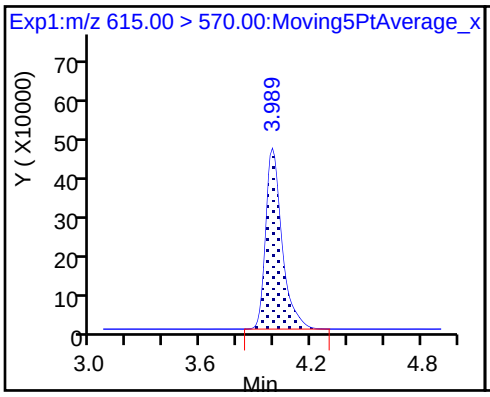
37 Perfluorododecanoic acid



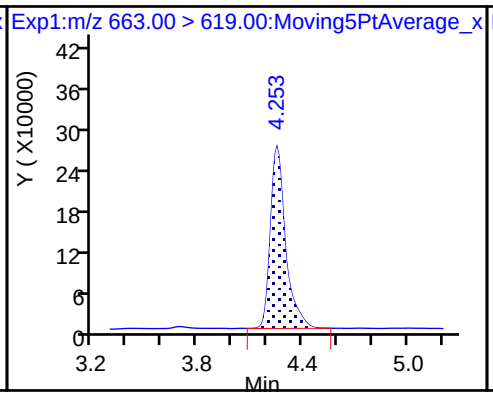
37 Perfluorododecanoic acid



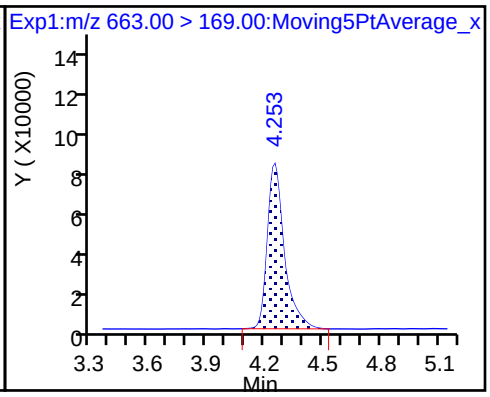
D 36 13C2 PFDoA



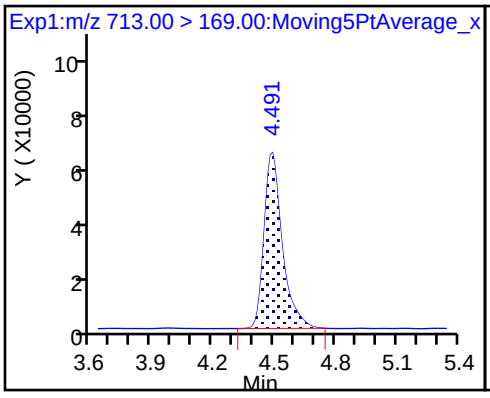
41 Perfluorotridecanoic acid



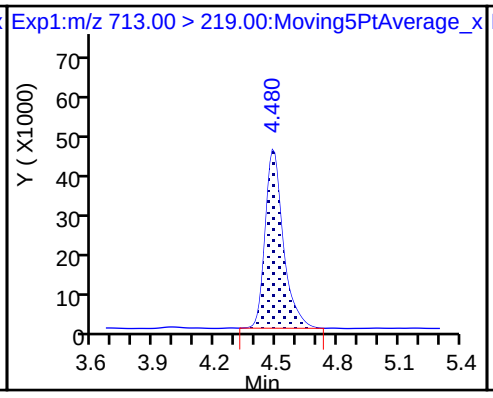
41 Perfluorotridecanoic acid



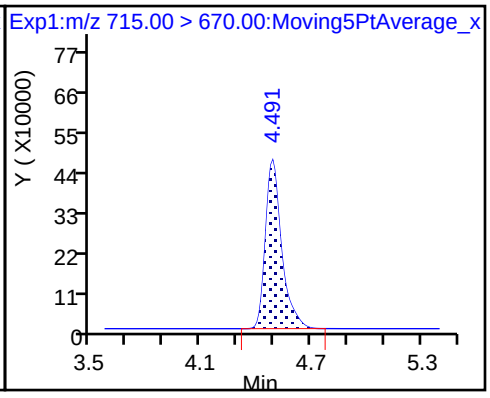
42 Perfluorotetradecanoic acid



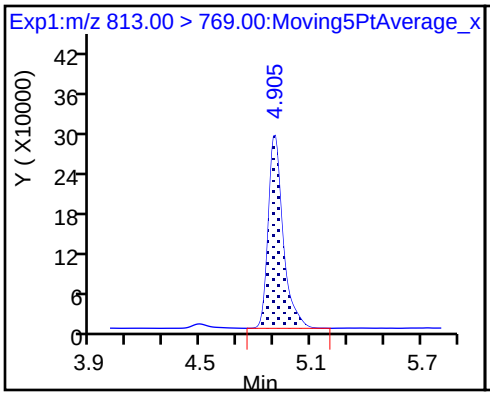
42 Perfluorotetradecanoic acid



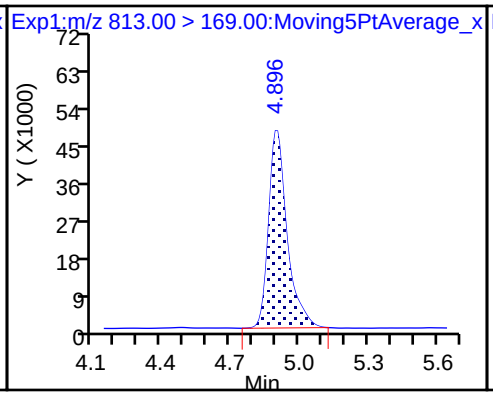
D 43 13C2-PFTeDA



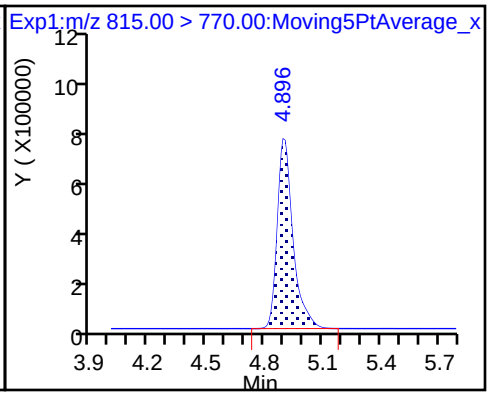
45 Perfluorohexadecanoic acid



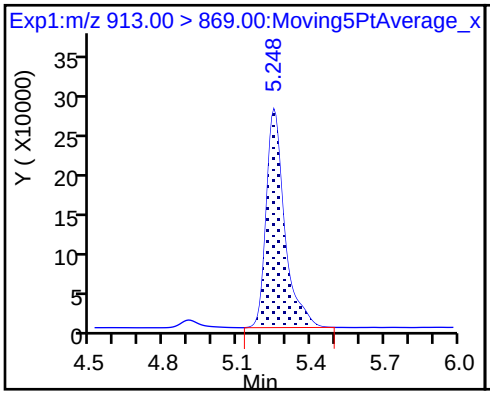
45 Perfluorohexadecanoic acid



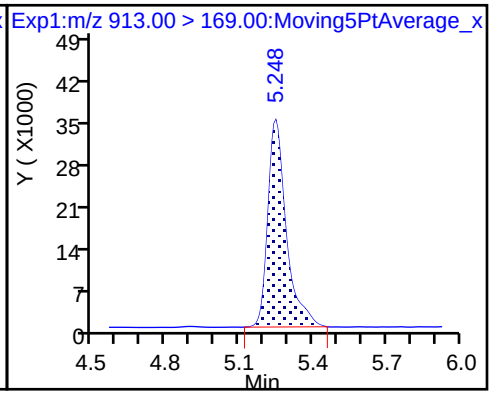
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 03/21/2018 18:16

Analysis Batch Number: 214175 End Date: 03/21/2018 19:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2018 18:16	1		GeminiC18 3x100 3(mm)
IC 320-214175/2		03/21/2018 18:24	1	2018.03.21LLICA LAX 002.d	GeminiC18 3x100 3(mm)
IC 320-214175/3		03/21/2018 18:32	1	2018.03.21LLICA LAX 003.d	GeminiC18 3x100 3(mm)
IC 320-214175/4		03/21/2018 18:39	1	2018.03.21LLICA LAX 004.d	GeminiC18 3x100 3(mm)
IC 320-214175/5 ICIS		03/21/2018 18:47	1	2018.03.21LLICA LAX 005.d	GeminiC18 3x100 3(mm)
IC 320-214175/6		03/21/2018 18:55	1	2018.03.21LLICA LAX 006.d	GeminiC18 3x100 3(mm)
IC 320-214175/7		03/21/2018 19:03	1	2018.03.21LLICA LAX 007.d	GeminiC18 3x100 3(mm)
IC 320-214175/8		03/21/2018 19:11	1	2018.03.21LLICA LAX 008.d	GeminiC18 3x100 3(mm)
ICB 320-214175/9		03/21/2018 19:19	1	2018.03.21LLICA LAX 009.d	GeminiC18 3x100 3(mm)
ICV 320-214175/10		03/21/2018 19:26	1	2018.03.21LLICA LAX 010.d	GeminiC18 3x100 3(mm)
CCB 320-214175/11		03/21/2018 19:34	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 03/28/2018 18:28

Analysis Batch Number: 215294 End Date: 03/28/2018 21:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-215294/1		03/28/2018 18:28	1	2018.03.28LLDXD 004.d	GeminiC18 3x100 3(mm)
CCVL 320-215294/2		03/28/2018 18:36	1	2018.03.28LLDXD 005.d	GeminiC18 3x100 3(mm)
CCV 320-215294/3 CCVIS		03/28/2018 18:44	1	2018.03.28LLDXD 006.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 18:51	1		GeminiC18 3x100 3(mm)
MB 320-215106/1-A		03/28/2018 18:59	1	2018.03.28LLDXD 008.d	GeminiC18 3x100 3(mm)
LCS 320-215106/2-A		03/28/2018 19:07	1	2018.03.28LLDXD 009.d	GeminiC18 3x100 3(mm)
LCSD 320-215106/3-A		03/28/2018 19:15	1	2018.03.28LLDXD 010.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 19:23	10		GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 19:30	50		GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 19:38	10		GeminiC18 3x100 3(mm)
320-37224-1		03/28/2018 19:46	1	2018.03.28LLDXD 014.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 20:02	1		GeminiC18 3x100 3(mm)
CCV 320-215294/14		03/28/2018 20:10	1	2018.03.28LLDXD _017.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 20:17	100		GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 20:25	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 20:33	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/28/2018 20:41	1		GeminiC18 3x100 3(mm)
CCV 320-215294/21		03/28/2018 21:04	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 03/29/2018 17:19

Analysis Batch Number: 215537 End Date: 03/29/2018 18:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/29/2018 17:19	1		GeminiC18 3x100 3(mm)
IC 320-215537/2		03/29/2018 17:27	1	2018.03.29A_ICA LB 002.d	GeminiC18 3x100 3(mm)
IC 320-215537/3		03/29/2018 17:35	1	2018.03.29A_ICA LB 003.d	GeminiC18 3x100 3(mm)
IC 320-215537/4		03/29/2018 17:43	1	2018.03.29A_ICA LB 004.d	GeminiC18 3x100 3(mm)
IC 320-215537/5 ICIS		03/29/2018 17:50	1	2018.03.29A_ICA LB 005.d	GeminiC18 3x100 3(mm)
IC 320-215537/6		03/29/2018 17:58	1	2018.03.29A_ICA LB 006.d	GeminiC18 3x100 3(mm)
IC 320-215537/7		03/29/2018 18:06	1	2018.03.29A_ICA LB 007.d	GeminiC18 3x100 3(mm)
IC 320-215537/8		03/29/2018 18:14	1	2018.03.29A_ICA LB 008.d	GeminiC18 3x100 3(mm)
ICB 320-215537/9		03/29/2018 18:22	1	2018.03.29A_ICA LB 009.d	GeminiC18 3x100 3(mm)
ICV 320-215537/10		03/29/2018 18:29	1	2018.03.29A_ICA LB 010.d	GeminiC18 3x100 3(mm)
CCB 320-215537/11		03/29/2018 18:37	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 03/30/2018 11:45

Analysis Batch Number: 215658 End Date: 03/30/2018 12:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-215658/1		03/30/2018 11:45	1	2018.03.30LLBXZA 003.d	GeminiC18 3x100 3(mm)
CCVL 320-215658/2		03/30/2018 11:53	1	2018.03.30LLBXZA 004.d	GeminiC18 3x100 3(mm)
CCV 320-215658/3 CCVIS		03/30/2018 12:00	1	2018.03.30LLBXZA 032.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/30/2018 12:08	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/30/2018 12:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/30/2018 12:24	100		GeminiC18 3x100 3(mm)
ZZZZZ		03/30/2018 12:32	100		GeminiC18 3x100 3(mm)
ZZZZZ		03/30/2018 12:40	100		GeminiC18 3x100 3(mm)
CCV 320-215658/10		03/30/2018 12:55	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 03/30/2018 18:00

Analysis Batch Number: 215776 End Date: 03/30/2018 18:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-215776/1		03/30/2018 18:00	1	2018.03.30LLBXZ AG 032.d	GeminiC18 3x100 3(mm)
MB 320-215068/1-A		03/30/2018 18:08	1	2018.03.30LLBXZ AG 033.d	GeminiC18 3x100 3(mm)
LCS 320-215068/2-A		03/30/2018 18:16	1	2018.03.30LLBXZ AG 034.d	GeminiC18 3x100 3(mm)
320-37224-2		03/30/2018 18:24	1	2018.03.30LLBXZ AG 040.d	GeminiC18 3x100 3(mm)
320-37224-2 MS		03/30/2018 18:32	1	2018.03.30LLBXZ AG 041.d	GeminiC18 3x100 3(mm)
320-37224-2 MSD		03/30/2018 18:40	1	2018.03.30LLBXZ AG 042.d	GeminiC18 3x100 3(mm)
CCV 320-215776/7		03/30/2018 18:47	1	2018.03.30LLBXZ AG 045.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: A8_N Start Date: 04/06/2018 13:44

Analysis Batch Number: 216698 End Date: 04/06/2018 15:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-216698/1		04/06/2018 13:44	1	2018.04.06LLA_003.d	GeminiC18 3x100 3(mm)
CCVL 320-216698/2		04/06/2018 13:52	1	2018.04.06LLA_004.d	GeminiC18 3x100 3(mm)
CCV 320-216698/3 CCVIS		04/06/2018 14:00	1	2018.04.06LLA_005.d	GeminiC18 3x100 3(mm)
MB 320-215908/1-A		04/06/2018 14:15	1	2018.04.06LLA_007.d	GeminiC18 3x100 3(mm)
LCS 320-215908/2-A		04/06/2018 14:23	1	2018.04.06LLA_008.d	GeminiC18 3x100 3(mm)
320-37224-2 RE		04/06/2018 14:31	1	2018.04.06LLA_009.d	GeminiC18 3x100 3(mm)
320-37224-2 MS RE		04/06/2018 14:39	1	2018.04.06LLA_010.d	GeminiC18 3x100 3(mm)
320-37224-2 MSD RE		04/06/2018 14:47	1	2018.04.06LLA_011.d	GeminiC18 3x100 3(mm)
ZZZZZ		04/06/2018 14:55	5		GeminiC18 3x100 3(mm)
CCV 320-216698/11		04/06/2018 15:02	1	2018.04.06LLA_013.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215068 Batch Start Date: 03/27/18 15:41 Batch Analyst: Long, Tyrel W

Batch Method: SHAKE Batch End Date: 03/29/18 22:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00045	LCPFC-IS 00024	LCPFCSP 00138	AnalysisComment
MB 320-215068/1		SHAKE, 537 (modified)		5.00 g	10.00 mL	500 uL	500 uL		
LCS 320-215068/2		SHAKE, 537 (modified)		5.00 g	10.00 mL	500 uL	500 uL	500 uL	
320-37224-A-2	Ash Pit	SHAKE, 537 (modified)	T	5.08 g	10.00 mL	500 uL	500 uL		Extract sediment appeared black and carbon-like
320-37224-A-2 MS	Ash Pit	SHAKE, 537 (modified)	T	5.00 g	10.00 mL	500 uL	500 uL	500 uL	Extract sediment appeared black and carbon-like
320-37224-A-2 MSD	Ash Pit	SHAKE, 537 (modified)	T	5.04 g	10.00 mL	500 uL	500 uL	500 uL	Extract sediment appeared black and carbon-like

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215068 Batch Start Date: 03/27/18 15:41 Batch Analyst: Long, Tyrel W

Batch Method: SHAKE Batch End Date: 03/29/18 22:50

Batch Notes	
Acetic Acid ID	985731
Analyst ID - Aliquot Step	JER
Balance ID	QA-078
Batch Comment	Client labels match: TWL
Analyst ID - Final Volume Step	JER
Hexane ID	1175189
Internal Standard ID#	1140898
Manifold ID	5
Methanol ID	1197224
Methanolic Potassium Hydroxide ID	1188475
Millipore Water Dispense Date	031618
Sodium Hydroxide ID	1178465
Ammonium Hydroxide/MeOH ID	1186517
pH Indicator ID	3817
Analyst ID - Reagent Drop Witness	TWL
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	GXL
Blank Sand Lot #	162639
SPE Cartridge Lot ID	0176373484
SPE Cartridge Type	WAX 150mg

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215106 Batch Start Date: 03/27/18 20:41 Batch Analyst: Reed, Jonathan E

Batch Method: 3535 Batch End Date: 03/28/18 14:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00044	LCPFC-IS 00032
MB 320-215106/1		3535, 537 (modified)				250.00 mL	10.00 mL	500 uL	500 uL
LCS 320-215106/2		3535, 537 (modified)				250.00 mL	10.00 mL	500 uL	500 uL
LCSD 320-215106/3		3535, 537 (modified)				250.00 mL	10.00 mL	500 uL	500 uL
320-37224-A-1	Recharge Basin	3535, 537 (modified)	T	278.20 g	29.14 g	249.1 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00139					
MB 320-215106/1		3535, 537 (modified)							
LCS 320-215106/2		3535, 537 (modified)		500 uL					
LCSD 320-215106/3		3535, 537 (modified)		500 uL					
320-37224-A-1	Recharge Basin	3535, 537 (modified)	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215106 Batch Start Date: 03/27/18 20:41 Batch Analyst: Reed, Jonathan E

Batch Method: 3535 Batch End Date: 03/28/18 14:15

Batch Notes	
Analyst ID - Aliquot Step	AAR
Balance ID	QA-070
Batch Comment	Sample labels match client IDs JER 3/27/18
Analyst ID - Final Volume Step	AAR
H2O ID	3/27/18
Hexane ID	1175188
Internal Standard ID#	1178674
Manifold ID	2
Methanol ID	1191294
Sodium Hydroxide ID	1196582
Pipette ID	N32728F
Analyst ID - Reagent Drop	JER
Analyst ID - IS Reagent Drop	TWL
Analyst ID - IS Reagent Drop Witness	AAR
Analyst ID - SU Reagent Drop	JER
Analyst ID - SU Reagent Drop Witness	TWL
Solvent Lot #	1195189
Solvent Name	0.3% NH4OH/MeOH
SOP Number	WS-LC-0025
SPE Cartridge Type	WAX 500mg
Solid Phase Extraction Disk ID	003137011A

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215908 Batch Start Date: 04/02/18 14:26 Batch Analyst: Reed, Jonathan E

Batch Method: SHAKE Batch End Date: 04/04/18 02:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00045	LCPFC-IS 00033	LCPFCSP 00138	
MB 320-215908/1		SHAKE, 537 (modified)		5.00 g	10.00 mL	500 uL	500 uL		
LCS 320-215908/2		SHAKE, 537 (modified)		5.00 g	10.00 mL	500 uL	500 uL	500 uL	
320-37224-A-2	Ash Pit	SHAKE, 537 (modified)	T	5.04 g	10.00 mL	500 uL	500 uL		
320-37224-A-2 MS	Ash Pit	SHAKE, 537 (modified)	T	4.96 g	10.00 mL	500 uL	500 uL	500 uL	
320-37224-A-2 MSD	Ash Pit	SHAKE, 537 (modified)	T	5.08 g	10.00 mL	500 uL	500 uL	500 uL	

Batch Notes	
Acetic Acid ID	985732
Analyst ID - Aliquot Step	JER
Balance ID	QA-070
Batch Comment	Sample labels match client IDs JER 3/31/18
Analyst ID - Final Volume Step	JER
Hexane ID	1175189
Internal Standard ID#	1178675
Manifold ID	13
Methanol ID	1197668
Methanolic Potassium Hydroxide ID	1199078
Millipore Water Dispense Date	3/31/18
Sodium Hydroxide ID	1196582
Ammonium Hydroxide/MeOH ID	1195172
pH Indicator ID	3817
Analyst ID - Reagent Drop Witness	TWL
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	MEL
Blank Sand Lot #	162639
SPE Cartridge Lot ID	017637348a
SPE Cartridge Type	WAX 150mg

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 215908 Batch Start Date: 04/02/18 14:26 Batch Analyst: Reed, Jonathan E

Batch Method: SHAKE Batch End Date: 04/04/18 02:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 37224

Work List ID(s): 560S1, 560T6, 56339, 563S4S7 (not used)

Extraction Batch: 215068, 215908

Analysis Batch(es): 215668, 215776, 216698, 216740 (not used)

Delivery Rank 4

Due Date: 4/9/18

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 215637	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).			✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓	✓	
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions) aar 4/9/18	✓	✓	
D. Documentation 121657, 121661, 121663, 121664, ~~121657~~			
1. Are all non-conformances documented/attached? NCM# 121653, 121656	✓	✓	
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): aar Date: 4/9/18

2nd Level Reviewer: mcwy Date: 4/9/2018

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 30MAR2018NCAA_PFC Worklist Number: 56051
Instrument Name: A8_N Chrom Method: A8_N
Data Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	LC PFC_DOD ICAL Raw Batch: 215657	LC PFC ICAL Raw Batch: 215658	LC PFC_QSM5-1 ICAL Raw Batch: 215659
# 1 CCB	# 1 CCB	# 1 CCB	# 1 CCB
# 2 CCVL	# 2 CCVL	# 2 CCVL	# 2 CCVL
# 3 CCV L4	# 3 CCV L4	# 3 CCV L4	# 3 CCV L4
# 4 MB 320-215068/1-A		# 4 MB 320-215068/1-A	
# 5 LCS 320-215068/2-A		# 5 LCS 320-215068/2-A	
# 6 320-37224-A-2-A		# 6 320-37224-A-2-A	
# 7 320-37224-A-2-B MS		# 7 320-37224-A-2-B MS	
# 8 320-37224-A-2-C MSD		# 8 320-37224-A-2-C MSD	
# 9 RB	# 9 RB	# 9 RB	# 9 RB
#10 CCV L4	#10 CCV L4	#10 CCV L4	#10 CCV L4

~~CCVL~~
acw
4/9/18

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 30MAR2018NCEE_PFC Worklist Number: 56076
Instrument Name: A8_N Chrom Method: A8_N
Data Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	LC PFC_DOD ICAL Raw Batch: 215775	LC PFC ICAL Raw Batch: 215776	LC PFC_QSM5-1 ICAL Raw Batch: 215777
# 1 CCV L4	# 1 CCV L4	# 1 CCV L4	# 1 CCV L4
# 2 MB 320-215068/1-A		# 2 MB 320-215068/1-A	
# 3 LCS 320-215068/2-A		# 3 LCS 320-215068/2-A	
# 4 320-37224-A-2-A		# 4 320-37224-A-2-A	
# 5 320-37224-A-2-B MS		# 5 320-37224-A-2-B MS	
# 6 320-37224-A-2-C MSD		# 6 320-37224-A-2-C MSD	
# 7 CCV L5	# 7 CCV L5	# 7 CCV L5	# 7 CCV L5

CCVL: 215658

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 06APR2018NC_2A_PFC Worklist Number: 56339
Instrument Name: A8_N Chrom Method: A8_N
Data Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	LC PFC_DOD ICAL Raw Batch: 216697	LC PFC ICAL Raw Batch: 216698	LC PFC_QSM5-1 ICAL Raw Batch: 216699
# 1 CCB	# 1 CCB	# 1 CCB	# 1 CCB
# 2 CCVL	# 2 CCVL	# 2 CCVL	# 2 CCVL
# 3 CCV L4	# 3 CCV L4	# 3 CCV L4	# 3 CCV L4
# 4 280-107413-B-5-A		# 4 280-107413-B-5-A	
# 5 MB 320-215908/1-A		# 5 MB 320-215908/1-A	
# 6 LCS 320-215908/2-A		# 6 LCS 320-215908/2-A	
# 7 320-37224-A-2-D		# 7 320-37224-A-2-D	
# 8 320-37224-A-2-E MS		# 8 320-37224-A-2-E MS	
# 9 320-37224-A-2-F MSD		# 9 320-37224-A-2-F MSD	
#10 280-107413-B-5-A		#10 280-107413-B-5-A	
#11 CCV L5	#11 CCV L5	#11 CCV L5	#11 CCV L5

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 06APR2018NC_2C_PFC Worklist Number: 56354
Instrument Name: A8_N Chrom Method: A8_N
Data Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56354.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	LC PFC_DOD ICAL Raw Batch: 216739	LC PFC ICAL Raw Batch: 216740	LC PFC_QSM5-1 ICAL Raw Batch: 216741
# 1 CCV L5	# 1 CCV L5	# 1 CCV L5	# 1 CCV L5
# 2 320-37224-A-2-D		# 2 320-37224-A-2-D	
# 3 320-37224-A-2-E MS		# 3 320-37224-A-2-E MS	
# 4 320-37224-A-2-F MSD		# 4 320-37224-A-2-F MSD	
# 5 320-37224-A-2-D		# 5 320-37224-A-2-D	
# 6 320-37224-A-2-E MS		# 6 320-37224-A-2-E MS	
# 7 320-37224-A-2-F MSD		# 7 320-37224-A-2-F MSD	
# 8 CCV L4	# 8 CCV L4	# 8 CCV L4	# 8 CCV L4

CCVL: 216698

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 30MAR2018NCAA_PFC Worklist Num: 56051
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180330-56051.b
Anaylysis Type: SemiVOA Creator: Royce, Amani A
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CB	320-0056051-001	CCB	30-Mar-2018 11:45:13	2018.03.30LLBXZA_003.d	23	1.0		sv
CVL	320-0056051-002	CCVL	30-Mar-2018 11:53:02	2018.03.30LLBXZA_004.d	24	1.0		sv
CV L4	320-0056051-003	CCVIS	30-Mar-2018 12:00:50	2018.03.30LLBXZA_032.d	13	1.0		sv
B 320-215068/1-A	320-0056051-004	MB	30-Mar-2018 12:08:38	2018.03.30LLBXZA_033.d	24	1.0		sv
CS 320-215068/2-A	320-0056051-005	LCS	30-Mar-2018 12:16:28	2018.03.30LLBXZA_034.d	25	1.0		sv
20-37224-A-2-A	320-0056051-006	Client	30-Mar-2018 12:24:19	2018.03.30LLBXZA_035.d	26	100.	Ash Pit	sv
20-37224-A-2-B MS	320-0056051-007	MS	30-Mar-2018 12:32:10	2018.03.30LLBXZA_036.d	27	100.		sv
20-37224-A-2-C MSD	320-0056051-008	MSD	30-Mar-2018 12:40:05	2018.03.30LLBXZA_037.d	28	100.		sv
B	320-0056051-009	RB	30-Mar-2018 12:47:55	2018.03.30LLBXZA_038.d	54	1.0		sv
CV L4	320-0056051-010	CCV	30-Mar-2018 12:55:42	2018.03.30LLBXZA_039.d	13	1.0		sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 30MAR2018NCEE_PFC Worklist Num: 56076
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180402-56076.b
Anaylysis Type: SemiVOA Creator: Hannigan, Alyssa B
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CV L4	320-0056076-001	CCV	30-Mar-2018 18:00:50	2018.03.30LLBXZAG_032.d	13	1.0		sv
B 320-215068/1-A	320-0056076-002	MB	30-Mar-2018 18:08:38	2018.03.30LLBXZAG_033.d	24	1.0		sv
CS 320-215068/2-A	320-0056076-003	LCS	30-Mar-2018 18:16:26	2018.03.30LLBXZAG_034.d	25	1.0		sv
20-37224-A-2-A	320-0056076-004	Client	30-Mar-2018 18:24:19	2018.03.30LLBXZAG_040.d	29	1.0	Ash Pit	sv
20-37224-A-2-B MS	320-0056076-005	MS	30-Mar-2018 18:32:10	2018.03.30LLBXZAG_041.d	30	1.0		sv
20-37224-A-2-C MSD	320-0056076-006	MSD	30-Mar-2018 18:40:03	2018.03.30LLBXZAG_042.d	31	1.0		sv
CV L5	320-0056076-007	CCV	30-Mar-2018 18:47:55	2018.03.30LLBXZAG_045.d	14	1.0		sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 06APR2018NC_2A_PFC Worklist Num: 56339
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56339.b
Anaylysis Type: SemiVOA Creator: Phomsopha, Thep
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CB	320-0056339-001	CCB	06-Apr-2018 13:44:37	2018.04.06LLA_003.d	20	1.0		sv
CVL	320-0056339-002	CCVL	06-Apr-2018 13:52:26	2018.04.06LLA_004.d	21	1.0		sv
CV L4	320-0056339-003	CCVIS	06-Apr-2018 14:00:13	2018.04.06LLA_005.d	28	1.0		sv
30-107413-B-5-A	320-0056339-004	Client	06-Apr-2018 14:08:01	2018.04.06LLA_006.d	19	1.0	CRP-BLDG 711-SOAP	sv
B 320-215908/1-A	320-0056339-005	MB	06-Apr-2018 14:15:53	2018.04.06LLA_007.d	1	1.0		sv
CS 320-215908/2-A	320-0056339-006	LCS	06-Apr-2018 14:23:44	2018.04.06LLA_008.d	2	1.0		sv
20-37224-A-2-D	320-0056339-007	Client	06-Apr-2018 14:31:35	2018.04.06LLA_009.d	3	1.0	Ash Pit	sv
20-37224-A-2-E MS	320-0056339-008	MS	06-Apr-2018 14:39:27	2018.04.06LLA_010.d	4	1.0		sv
20-37224-A-2-F MSD	320-0056339-009	MSD	06-Apr-2018 14:47:19	2018.04.06LLA_011.d	5	1.0		sv
30-107413-B-5-A	320-0056339-010	Client	06-Apr-2018 14:55:08	2018.04.06LLA_012.d	20	5.0	CRP-BLDG 711-SOAP	sv
CV L5	320-0056339-011	CCV	06-Apr-2018 15:02:57	2018.04.06LLA_013.d	29	1.0		sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 06APR2018NC_2C_PFC Worklist Num: 56354
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20180406-56354.b
Anaylysis Type: SemiVOA Creator: Hannigan, Alyssa B
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CV L5	320-0056354-001	CCV	06-Apr-2018 15:34:10	2018.04.06LLA_034.d	14	1.0		sv
20-37224-A-2-D	320-0056354-002	Client	06-Apr-2018 15:41:59	2018.04.06LLA_035.d	21	10.0	Ash Pit	sv
20-37224-A-2-E MS	320-0056354-003	MS	06-Apr-2018 15:49:50	2018.04.06LLA_036.d	22	10.0		sv
20-37224-A-2-F MSD	320-0056354-004	MSD	06-Apr-2018 15:57:41	2018.04.06LLA_037.d	23	10.0		sv
20-37224-A-2-D	320-0056354-005	Client	06-Apr-2018 16:05:31	2018.04.06LLA_038.d	24	100.	Ash Pit	sv
20-37224-A-2-E MS	320-0056354-006	MS	06-Apr-2018 16:13:23	2018.04.06LLA_039.d	25	100.		sv
20-37224-A-2-F MSD	320-0056354-007	MSD	06-Apr-2018 16:21:12	2018.04.06LLA_040.d	26	100.		sv
CV L4	320-0056354-008	CCV	06-Apr-2018 16:28:59	2018.04.06LLA_041.d	13	1.0		sv

43 (RX)

A8 4/6/18

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908 ✔

Method Code: 320-Shake_Bath_14D-320

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Batch End: 4/4/2018 2:00:00AM

Shake Extraction with Ultrasonic Bath Extraction

Due: 4/9

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	MB-320-215908/1 N/A	N/A	5.00 g	10.00 mL	N/A	N/A	N/A		MB 320-215908/1-A
2	LCS-320-215908/2 N/A	N/A	5.00 g	10.00 mL	N/A	N/A	N/A		LCS 320-215908/2-A
3	320-37224-A-2 (PFC_IDA)	N/A (320-37224-1)	5.04 g	10.00 mL	3/23/18	12_Days	4	10x; 100x	320-37224-A-2-D
4	320-37224-A-2-MS (PFC_IDA)	N/A (320-37224-1)	4.96 g	10.00 mL	3/23/18	12_Days	4		320-37224-A-2-E MS
5	320-37224-A-2-MSD (PFC_IDA)	N/A (320-37224-1)	5.08 g	10.00 mL	3/23/18	12_Days	4		320-37224-A-2-F MSD

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End:

Batch Notes

Balance ID	QA-070
Blank Sand Lot #	162639
Filter ID	NA
Millipore Water Dispense Date	3/31/18
Analyst ID - Reagent Drop Witness	TWL
SPE Cartridge Lot ID	0176373484
SPE Cartridge Type	WAX 150mg
Hexane ID	1175189
Methanol ID	1197668
Ammonium Hydroxide/MeOH ID	1195172
Sodium Hydroxide ID	1196582
Methanolic Potassium Hydroxide ID	1199078
Manifold ID	13
Interference check solution ID	NA
Acetic Acid ID	985732
pH Indicator ID	3817
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	MEL 04/04/18
Internal Standard ID#	1178675
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	JER

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908 Analyst: Reed, Jonathan E Batch Open: 4/2/2018 2:26:00PM

Method Code: 320-Shake_Bath_14D-320 Batch End:

Analyst ID - Final Volume Step JEK

Batch Comment Sample labels match client IDs JER 3/31/18

Comments

320-37224-A-2	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.
320-37224-A-2~MS	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.
320-37224-A-2~MSD	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End: 4/4/2018 2:00:00AM

Batch Notes

Balance ID	QA-070
Blank Sand Lot #	162639
Filter ID	NA
Millipore Water Dispense Date	3/31/18
Analyst ID - Reagent Drop Witness	TWL
SPE Cartridge Lot ID	017637348a
SPE Cartridge Type	WAX 150mg
Hexane ID	1175189
Methanol ID	1197668
Ammonium Hydroxide/MeOH ID	1195172
Sodium Hydroxide ID	1196582
Methanolic Potassium Hydroxide ID	1199078
Manifold ID	13
Interference check solution ID	NA
Acetic Acid ID	985732
pH Indicator ID	3817
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	MEL
Internal Standard ID#	1178675
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	JER

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End: 4/4/2018 2:00:00AM

Analyst ID - Final Volume Step JER

Batch Comment Sample labels match client IDs JER 3/31/18

Comments

320-37224-A-2	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.
320-37224-A-2~MS	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.
320-37224-A-2~MSD	Rework Comments: Due to high levels of 6:2 FTS contamination in the MB and LCS.

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Method Code: 320-Shake_Bath_14D-320

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-215908/1	LCMPFC_ALL_SU_00045	500 uL	10.00 mL	4/02/18	4/2/18
LCS 320-215908/2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
LCS 320-215908/2	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2 MSD	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFCSP_00138	500 uL	10.00 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Method Code: 320-Shake_Bath_14D-320

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Batch End: 4/4/2018 2:00:00AM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-215908/1	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
MB 320-215908/1	LCPFC-IS_00033	500 uL	10.00 mL		
LCS 320-215908/2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
LCS 320-215908/2	LCPFC-IS_00033	500 uL	10.00 mL		
LCS 320-215908/2	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2	LCPFC-IS_00033	500 uL	10.00 mL		
320-37224-A-2 MS	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFC-IS_00033	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2 MSD	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFC-IS_00033	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFCSP_00138	500 uL	10.00 mL		

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215908

Analyst: Reed, Jonathan E

Batch Open: 4/2/2018 2:26:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End: 4/4/2018 2:00:00AM

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s) 215908 Test DFC(S)

Earliest Holding Time 3/23/18 (RX)

Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	✓	✓
Sample List Tab	**1st Level Reviewer**	**2nd Level Reviewer**
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	✓	✓
MS/MSD or MS/DU NCM filed	NA	NA
NCM for any anomalies filed	NA	NA
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	✓	✓
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	NA	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	✓	✓
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: _____ Date: 4/04/18

2nd Level Reviewer: VPM Date: 4/4/18

Comments: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – Sacramento

Sample Dilution Record

Method ID PFC_IDA

Analyst (Print Name) Amani Reyes **Reagent ID** LC – 80:20_00002

Date 4/6/18

Job #	Sample #	Original F.V. (uL)	Aliquot (uL)	Dilution F.V. (uL)	Dilution Factor
320-37124	2	10,000	30	300	10
	2 MS		↓	↓	↓
	2MSD		↓	↓	↓
	2 MS		15	1500	100
	2MSD		↓	↓	↓
	2		↓	↓	↓

AMR 4/6/18

Comments:

33

AB 3/30/18

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068 ✓

Method Code: 320-Shake_Bath_14D-320

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Batch End: 3/29/2018 10:50:00PM

Shake Extraction with Ultrasonic Bath Extraction

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-215068/1 N/A	N/A	5.00 g	10.00 mL	N/A	N/A	N/A	arch R1	MB 320-215068/1-A
2	LCS~320-215068/2 N/A	N/A	5.00 g	10.00 mL	N/A	N/A	N/A	arch. R1	LCS 320-215068/2-A
3	320-37224-A-2 (PFC_IDA)	N/A (320-37224-1)	5.08 g	10.00 mL	3/23/18	12_Days	4	Extract sediment appeared black and carbon-like 1x yellow Screen 100%	320-37224-A-2-A
4	320-37224-A-2~MS (PFC_IDA)	N/A (320-37224-1)	5.00 g	10.00 mL	3/23/18	12_Days	4	Extract sediment appeared black and carbon-like 1x yellow	320-37224-A-2-B MS
5	320-37224-A-2~MSD (PFC_IDA)	N/A (320-37224-1)	5.04 g	10.00 mL	3/23/18	12_Days	4	Extract sediment appeared black and carbon-like 1x yellow	320-37224-A-2-C MSD

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End:

Batch Notes

Balance ID	QA-078
Blank Sand Lot #	162639
Filter ID	NA
Millipore Water Dispense Date	031618
Analyst ID - Reagent Drop Witness	TWL
SPE Cartridge Lot ID	0176373484
SPE Cartridge Type	WAX 150mg
Hexane ID	1175189
Methanol ID	1197224
Ammonium Hydroxide/MeOH ID	1186517
Sodium Hydroxide ID	1178465
Methanolic Potassium Hydroxide ID	1188475
Manifold ID	5
Interference check solution ID	NA
Acetic Acid ID	985731
pH Indicator ID	3817
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	XGXL
Internal Standard ID#	1140898
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	JER

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End:

Analyst ID - Final Volume Step JER

Batch Comment Client labels match: TWL

Comments

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Method Code: 320-Shake_Bath_14D-320

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Batch End: 3/29/2018 10:50:00PM

Batch Notes

Balance ID	QA-078
Blank Sand Lot #	162639
Filter ID	NA
Millipore Water Dispense Date	031618
Analyst ID - Reagent Drop Witness	TWL
SPE Cartridge Lot ID	0176373484
SPE Cartridge Type	WAX 150mg
Hexane ID	1175189
Methanol ID	1197224
Ammonium Hydroxide/MeOH ID	1186517
Sodium Hydroxide ID	1178465
Methanolic Potassium Hydroxide ID	1188475
Manifold ID	5
Interference check solution ID	NA
Acetic Acid ID	985731
pH Indicator ID	3817
Analyst ID - IS Reagent Drop	JER
Analyst ID - IS Reagent Drop Witness	GXL
Internal Standard ID#	1140898
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	JER

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End: 3/29/2018 10:50:00PM

Analyst ID - Final Volume Step	JER
Batch Comment	Client labels match: TWL

Comments

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Method Code: 320-Shake_Bath_14D-320

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-215068/1	LCMPFC_ALL_SU_00045	500 uL	10.00 mL	3/27/18	TWL 3-27-18
LCS 320-215068/2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
LCS 320-215068/2	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2 MSD	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFCSP_00138	500 uL	10.00 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Method Code: 320-Shake_Bath_14D-320

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Batch End: 3/29/2018 10:50:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-215068/1	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
MB 320-215068/1	LCPFC-IS_00024	500 uL	10.00 mL		
LCS 320-215068/2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
LCS 320-215068/2	LCPFC-IS_00024	500 uL	10.00 mL		
LCS 320-215068/2	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2	LCPFC-IS_00024	500 uL	10.00 mL		
320-37224-A-2 MS	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFC-IS_00024	500 uL	10.00 mL		
320-37224-A-2 MS	LCPFCSP_00138	500 uL	10.00 mL		
320-37224-A-2 MSD	LCMPFC_ALL_SU_00045	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFC-IS_00024	500 uL	10.00 mL		
320-37224-A-2 MSD	LCPFCSP_00138	500 uL	10.00 mL		

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-215068

Analyst: Long, Tyrel W

Batch Open: 3/27/2018 3:41:00PM

Method Code: 320-Shake_Bath_14D-320

Batch End: 3/29/2018 10:50:00PM

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s) 215068 Test PFC

Earliest Holding Time 3-30-18

Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	✓	✓
Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	NA	NA
MS/MSD or MS/DU NCM filed	NA	NA
NCM for any anomalies filed	✓	✓
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	1st Level Reviewer	2nd Level Reviewer
All samples properly preserved	✓	✓
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	NA	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	1st Level Reviewer	2nd Level Reviewer
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	✓	✓
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: [signature] Date: 3/29/18

2nd Level Reviewer: aak Date: 3/30/18

Comments: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – Sacramento

Sample Dilution Record

Method ID PFC-IDA

Analyst (Print Name) Amani Royce

Date 3/30/18

LC-80:20-00002

Reagent ID ~~HG9443~~ aave 4/9/18

Job #	Sample #	Original F.V. (uL)	Aliquot (uL)	Dilution F.V. (uL)	Dilution Factor
280-107413	3	10,000	15	1500	100X
↓	3MS	↓	↓	↓	↓
	3DU				
	4				
↓	5				
320-37224	2				
↓	2MS				
	2MSD				

aave 3/30/18

Comments:

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 320-37224-1

SDG No.:

Project: Suffolk County Firematics Site

Client Sample ID	Lab Sample ID
Ash Pit	320-37224-2

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 320-37224-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: D 2216 RL Date: 01/01/2012 08:18

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 320-37224-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: D 2216 XMDL Date: 01/01/2017 12:46

Analyte	Wavelength/ Mass	XRL (%)	XMDL (%)
Percent Moisture		0.1	0.1
Percent Solids		0.1	0.1

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Instrument ID: NOEQUIP Method: D 2216

Start Date: 03/22/2018 21:37 End Date: 03/22/2018 21:37

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			21:37																					
320-37210-A-11 DU	1	T	21:37	X	X																			
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
320-37224-2	1	T	21:37	X	X																			
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					
ZZZZZZ			21:37																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-37224-1

SDG No.:

Batch Number: 214408 Batch Start Date: 03/22/18 21:37 Batch Analyst: Saechao, Tammy C

Batch Method: D 2216 Batch End Date: 03/23/18 15:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
320-37210-A-11 DU		D 2216	T	2	1.03 g	10.54 g	7.86 g		
320-37224-A-2	Ash Pit	D 2216	T	6	1.03 g	7.11 g	3.51 g		

Batch Notes	
Balance ID	QA-068
Date and Time Samples in Desiccator	03/23/2018 10:57
Date and Time Samples out of Desiccator	03/23/2018 15:26
Date samples were placed in the oven	03/22/2018
Oven Temp In	113 Degrees C
Time samples were place in the oven	21:37
Date samples were removed from oven	03/23/2018
Oven Temp Out	112 Degrees C
Time Samples were removed from oven	10:57
Oven ID	Soil Prep #2
Thermometer ID	151969607

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone 916.373.5600

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Junelle Cooley	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-88468-55550.1
Client Contact: Mr. Andrew Lockwood	Phone: 631-432-6717	E-Mail: melissa.haas@testamericainc.com		Page: Page of
Company: PW Grosser Consulting				Job #:

Address: 630 Johnson Ave Suite 7	Due Date Requested:	
City: Bohemia	TAT Requested (days): 15 days	
State, Zip: NY, 11716		
Phone: 631-589-6353(Tel)	PO #: 574D1801	
Email: andyl@pwgrosser.com	WO #: 574D1801	
Project Name: Suffolk County Firematics Site	Project #: 46024260	
Site:	SSOW#:	

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Recharge Basin	3/16/18	1100	C	WO			X	2	
Ash Pit	3/16/18	945	C	S			X	1	

320-37224 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 3/16/18 1430	Company	Received by:	Date/Time: 3/16/18 1430	Company		
Relinquished by: TANYC	Date/Time: 3/16/18 1600	Company TANYC	Received by:	Date/Time: 3-19-18 TAN SEC	Company 8:50		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: —
Cooler Temperature(s) °C and Other Remarks: 0.7 °C

Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 320-37224-1

Login Number: 37224
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-152136-1

Job Description: Suffolk County Firematics Site

For:
PW Grosser Consulting
630 Johnson Ave
Suite 7
Bohemia, NY 11716

Attention: Mr. Andrew C Lockwood

Approved for release.
Thomas A Chupela
Project Management Assistant I
3/26/2018 11:02 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
03/26/2018

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Job Number: 460-152136-1

Job Description: Suffolk County Firematics Site

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Thomas A Chupela
Project Management Assistant I
3/26/2018 11:02 AM

Designee for
Melissa Haas

Table of Contents

Cover Title Page 1

Data Summaries 8

Report Narrative 8

Sample Summary 13

Detection Summary 14

Method Summary 16

Client Sample Results 17

Surrogate Summary 30

QC Sample Results 34

Definitions 82

QC Association 84

Chronicle 91

Certification Summary 93

Organic Sample Data 94

GC/MS VOA 94

8260C 94

8260C QC Summary 95

8260C Sample Data 135

Standards Data 172

8260C ICAL Data 172

8260C Resolution Data 452

8260C CCAL Data 458

Raw QC Data 527

8260C Tune Data 527

8260C Blank Data 548

8260C LCS/LCSD Data 575

Table of Contents

8260C Run Logs 628

8260C Prep Data 635

GC/MS Semi VOA 640

8270D 640

8270D QC Summary 641

8270D Sample Data 670

Standards Data 725

8270D ICAL Data 725

8270D Resolution Data 888

8270D CCAL Data 894

Raw QC Data 948

8270D Tune Data 948

8270D Blank Data 974

8270D LCS/LCSD Data 997

8270D MS/MSD Data 1039

8270D Run Logs 1060

8270D Prep Data 1064

8270D_SIM 1067

8270D_SIM QC Summary 1068

8270D_SIM Sample Data 1077

Standards Data 1080

8270D_SIM ICAL Data 1080

8270D_SIM Resolution Data 1109

8270D_SIM CCAL Data 1110

Raw QC Data 1121

8270D_SIM Tune Data 1121

Table of Contents

8270D_SIM Blank Data 1136

8270D_SIM LCS/LCSD Data 1139

8270D_SIM Run Logs 1148

8270D_SIM Prep Data 1150

GC Semi VOA 1152

8081B 1152

8081B QC Summary 1153

8081B Sample Data 1177

Standards Data 1191

8081B ICAL Data 1191

8081B Resolution Data 1524

8081B PEM Data 1532

8081B CCAL Data 1548

Raw QC Data 1738

8081B Blank Data 1738

8081B LCS/LCSD Data 1756

8081B MS/MSD Data 1776

8081B Run Logs 1830

8081B Prep Data 1836

8082A 1839

8082A QC Summary 1840

8082A Sample Data 1864

Standards Data 1893

8082A ICAL Data 1893

8082A CCAL Data 2355

Raw QC Data 2448

Table of Contents

8082A Blank Data 2448

8082A LCS/LCSD Data 2477

8082A MS/MSD Data 2509

8082A Run Logs 2539

8082A Prep Data 2546

Inorganic Sample Data 2548

Metals Data 2548

Met Cover Page 2549

Met Sample Data 2550

Met QC Data 2553

Met ICV/CCV 2553

Met CRQL 2566

Met Blanks 2567

Met ICSA/ICSAB 2581

Met MS/MSD/PDS 2587

Met Dup/Trip 2595

Met LCS/LCSD 2601

Met Serial Dilution 2607

Met MDL 2613

Met Linear Ranges 2625

Met Preparation Log 2627

Met Analysis Run Log 2633

Met ICP/MS Int Stds 2663

Met Raw Data 2665

Met Prep Data 3547

General Chemistry Data 3555

Table of Contents

Gen Chem Cover Page 3556

Gen Chem Sample Data 3557

Gen Chem QC Data 3559

Gen Chem ICV/CCV 3559

Gen Chem Blanks 3563

Gen Chem MS/MSD/PDS 3564

Gen Chem Duplicates 3568

Gen Chem LCS/LCSD 3570

Gen Chem MDL 3574

Gen Chem Preparation Log 3584

Gen Chem Analysis Run Log 3587

Gen Chem Raw Data 3595

Gen Chem Prep Data 3616

Shipping and Receiving Documents 3627

Client Chain of Custody 3628

Sample Receipt Checklist 3630

CASE NARRATIVE

Client: PW Grosser Consulting

Project: Suffolk County Firematics Site

Report Number: 460-152136-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT
The samples were received on 3/16/2018 8:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

Receipt Exceptions

Limited volume was submitted for dissolved metals and hexavalent chromium analysis - the lab received one unpreserved plastic 250mL container. The client was notified and the lab was able to proceed with the extra unpreserved volume provided for other methods.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The following issues were noted by the lab:
The soil metals methods are 6010C and 7471B, not 6020A/7470A as indicated on the COC.
*Dissolved metals is not applicable to soils.
*8270D SIM is not applicable to soils.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample Ash Pit (460-152136-2) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C (1311). The samples were leached on 03/20/2018 and analyzed on 03/22/2018.

Sample Ash Pit (460-152136-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the TCLP volatiles analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample Ash Pit (460-152136-2) was analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 03/17/2018 and analyzed on 03/20/2018.

Acetone was detected in method blank MB 460-504711/8 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 460-504711/8 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-504711 recovered outside control limits for the following analytes: Acrylonitrile and Methyl acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Recharge Basin (460-152136-1) and Trip Blank (460-152136-3) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 03/22/2018.
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-504711 recovered above the upper control limit for Acrylonitrile and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-505144 recovered outside control limit for Acrolein, Chlorobromomethane, Trichlorofluoromethane and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-505144 recovered outside control limits for the following analytes: Acrolein and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample Recharge Basin (460-152136-1) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/19/2018 and analyzed on 03/20/2018.

The continuing calibration verification (CCV) associated with batch 460-504609 recovered above the upper control limit for < Di-n-octyl phthalate>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 460-504609/2).

The continuing calibration verification (CCV) associated with batch 460-504609 recovered above the upper control limit for Caprolactam and Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-505174 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 460-505174/2).

The surrogate recovery for the LCS associated with preparation batch 460-505109 and analytical batch 460-505174 was outside the upper control limits.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Sample Recharge Basin (460-152136-1) was analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 03/19/2018 and analyzed on 03/20/2018.

No difficulties were encountered during the SVOC SIM analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Sample Ash Pit (460-152136-2) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 03/20/2018 and analyzed on 03/22/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Sample Recharge Basin (460-152136-1) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples

were prepared on 03/20/2018 and analyzed on 03/21/2018.

4,4'-DDD, Endrin and Endrin ketone failed the recovery criteria high for the Matrix Spike (MS) of sample 460-152194-4 in batch 460-505044.

Several analytes failed the recovery criteria high for the Matrix Spike Duplicate (MSD) of sample 460-152194-4 in batch 460-505044. Methoxychlor exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS
Sample Ash Pit (460-152136-2) was analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 03/20/2018 and analyzed on 03/22/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)
Sample Recharge Basin (460-152136-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 03/20/2018 and analyzed on 03/21/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample Ash Pit (460-152136-2) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/21/2018 and analyzed on 03/22/2018.

2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCS 460-505109/3-A.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)
Sample Ash Pit (460-152136-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 03/17/2018 and analyzed on 03/22/2018.

Several analytes failed the recovery criteria low for the MS of sample 460-152163-1 in batch 460-504569. Barium failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample Ash Pit (460-152136-2)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP/MS)
Sample Recharge Basin (460-152136-1) was analyzed for Dissolved Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 03/19/2018 and analyzed on 03/20/2018.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP/MS)
Sample Recharge Basin (460-152136-1) was analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 03/17/2018 and analyzed on 03/19/2018.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Sample Ash Pit (460-152136-2) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared and analyzed on 03/20/2018.

No difficulties were encountered during the hexchrome Cr6 analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Sample Recharge Basin (460-152136-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 03/17/2018.

No difficulties were encountered during the hexchrome Cr6 analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY
Sample Recharge Basin (460-152136-1) was analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/19/2018.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample Recharge Basin (460-152136-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/19/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample Ash Pit (460-152136-2) was analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 03/19/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE
Sample Ash Pit (460-152136-2) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 03/21/2018 and analyzed on 03/22/2018.

No difficulties were encountered during the cyanide analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE
Sample Recharge Basin (460-152136-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 03/22/2018 and analyzed on 03/23/2018.

Cyanide, Total failed the recovery criteria high for the MS of sample 460-152323-9 in batch 460-505599.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Sample Ash Pit (460-152136-2) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/17/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-152136-1	Recharge Basin	Water	03/16/18 11:00	03/16/18 20:20
460-152136-2	Ash Pit	Solid	03/16/18 09:45	03/16/18 20:20
460-152136-3	Trip Blank	Water	03/16/18 11:30	03/16/18 20:20

Detection Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

Client Sample ID: Recharge Basin — Lab Sample ID: 460-152136-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	33.0	J	40.0	15.0	ug/L	2		6020A	Total/NA
Antimony	1.6	J	2.0	0.62	ug/L	2		6020A	Total/NA
Barium	18.3		4.0	1.1	ug/L	2		6020A	Total/NA
Calcium	11000		200	67.6	ug/L	2		6020A	Total/NA
Iron	119	J	120	45.7	ug/L	2		6020A	Total/NA
Magnesium	1750		200	65.7	ug/L	2		6020A	Total/NA
Manganese	20.7		8.0	2.7	ug/L	2		6020A	Total/NA
Potassium	3230		200	64.9	ug/L	2		6020A	Total/NA
Sodium	9810		200	75.7	ug/L	2		6020A	Total/NA
Vanadium	1.4	J	4.0	1.2	ug/L	2		6020A	Total/NA
Zinc	7.8	J	16.0	5.4	ug/L	2		6020A	Total/NA
Barium	16.4		4.0	1.1	ug/L	2		6020A	Dissolved
Calcium	10700		200	67.6	ug/L	2		6020A	Dissolved
Magnesium	1670		200	65.7	ug/L	2		6020A	Dissolved
Potassium	3060		200	64.9	ug/L	2		6020A	Dissolved
Sodium	9310		200	75.7	ug/L	2		6020A	Dissolved

Client Sample ID: Ash Pit — Lab Sample ID: 460-152136-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.0015	J	0.0046	0.0014	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.054	B	0.023	0.018	mg/Kg	1	☼	8260C	Total/NA
Benzene	0.014		0.0046	0.0012	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.0013	J B	0.0046	0.00075	mg/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.00098	J	0.0046	0.00080	mg/Kg	1	☼	8260C	Total/NA
o-Xylene	0.00049	J	0.0046	0.00044	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.0015	J	0.0092	0.0012	mg/Kg	1	☼	8260C	Total/NA
Benzene	1.9	J	10	1.9	ug/L	10		8260C	TCLP
1,1'-Biphenyl	1.9		1.1	0.015	mg/Kg	1	☼	8270D	Total/NA
2,4-Dimethylphenol	0.093	J	1.1	0.049	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.34	J	1.1	0.014	mg/Kg	1	☼	8270D	Total/NA
2-Methylphenol	0.19	J	1.1	0.018	mg/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	0.48	J	1.1	0.019	mg/Kg	1	☼	8270D	Total/NA
4-Methylphenol	0.48	J	1.1	0.019	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.16	J	1.1	0.011	mg/Kg	1	☼	8270D	Total/NA
Acetophenone	1.2		1.1	0.018	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.063	J	1.1	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzaldehyde	0.85	J	1.1	0.048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.047	J	0.11	0.029	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.091	J	0.11	0.029	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	1.7		1.1	0.058	mg/Kg	1	☼	8270D	Total/NA
Caprolactam	1.6		1.1	0.066	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12	J	1.1	0.019	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.14	J	1.1	0.016	mg/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	0.46	J	1.1	0.058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.17	J	1.1	0.014	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.081	J	1.1	0.015	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	1.2		1.1	0.019	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.42	J	1.1	0.019	mg/Kg	1	☼	8270D	Total/NA
Phenol	0.92	J	1.1	0.016	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Ash Pit (Continued)

Lab Sample ID: 460-152136-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.20	J	1.1	0.027	mg/Kg	1	☼	8270D	Total/NA
Aluminum	3930		100	20.6	mg/Kg	4	☼	6010C	Total/NA
Antimony	90.0		10.0	1.2	mg/Kg	4	☼	6010C	Total/NA
Arsenic	22.6		7.5	1.9	mg/Kg	4	☼	6010C	Total/NA
Barium	832		100	8.1	mg/Kg	4	☼	6010C	Total/NA
Beryllium	0.28	J	1.0	0.12	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.2		2.0	0.30	mg/Kg	4	☼	6010C	Total/NA
Calcium	24500		2510	256	mg/Kg	4	☼	6010C	Total/NA
Chromium	1160		5.0	1.4	mg/Kg	4	☼	6010C	Total/NA
Cobalt	11.3	J	25.1	2.9	mg/Kg	4	☼	6010C	Total/NA
Copper	806		12.5	2.8	mg/Kg	4	☼	6010C	Total/NA
Iron	42200		75.3	13.6	mg/Kg	4	☼	6010C	Total/NA
Lead	45.2		5.0	1.5	mg/Kg	4	☼	6010C	Total/NA
Magnesium	2380	J	2510	193	mg/Kg	4	☼	6010C	Total/NA
Manganese	874		7.5	0.78	mg/Kg	4	☼	6010C	Total/NA
Nickel	26.5		20.1	1.9	mg/Kg	4	☼	6010C	Total/NA
Potassium	2900		2510	134	mg/Kg	4	☼	6010C	Total/NA
Silver	0.91	J	5.0	0.77	mg/Kg	4	☼	6010C	Total/NA
Sodium	923	J	2510	193	mg/Kg	4	☼	6010C	Total/NA
Vanadium	4.7	J	25.1	3.0	mg/Kg	4	☼	6010C	Total/NA
Zinc	5080		15.1	1.3	mg/Kg	4	☼	6010C	Total/NA
Cyanide, Total	2.1		0.77	0.20	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 460-152136-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
6020A	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
9012B	Cyanide, Total andor Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: Recharge Basin

Date Collected: 03/16/18 11:00
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			03/22/18 10:08	1
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			03/22/18 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34	ug/L			03/22/18 10:08	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			03/22/18 10:08	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			03/22/18 10:08	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			03/22/18 10:08	1
1,2,3-Trichlorobenzene	0.35	U	1.0	0.35	ug/L			03/22/18 10:08	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			03/22/18 10:08	1
1,2,4-Trimethylbenzene	0.23	U	1.0	0.23	ug/L			03/22/18 10:08	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			03/22/18 10:08	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/22/18 10:08	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			03/22/18 10:08	1
1,3,5-Trimethylbenzene	0.25	U	1.0	0.25	ug/L			03/22/18 10:08	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 10:08	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 10:08	1
2-Butanone (MEK)	2.2	U	5.0	2.2	ug/L			03/22/18 10:08	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			03/22/18 10:08	1
4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63	ug/L			03/22/18 10:08	1
Acetone	1.1	U	5.0	1.1	ug/L			03/22/18 10:08	1
Acrolein	0.88	U *	4.0	0.88	ug/L			03/22/18 10:08	1
Acrylonitrile	1.0	U	2.0	1.0	ug/L			03/22/18 10:08	1
Benzene	0.090	U	1.0	0.090	ug/L			03/22/18 10:08	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/22/18 10:08	1
Bromomethane	0.18	U *	1.0	0.18	ug/L			03/22/18 10:08	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/22/18 10:08	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			03/22/18 10:08	1
Chlorobromomethane	0.30	U	1.0	0.30	ug/L			03/22/18 10:08	1
Chlorodibromomethane	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
Chloroethane	0.37	U	1.0	0.37	ug/L			03/22/18 10:08	1
Chloroform	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
Chloromethane	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/22/18 10:08	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			03/22/18 10:08	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			03/22/18 10:08	1
Dichlorobromomethane	0.15	U	1.0	0.15	ug/L			03/22/18 10:08	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			03/22/18 10:08	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			03/22/18 10:08	1
Ethylene Dibromide	0.19	U	1.0	0.19	ug/L			03/22/18 10:08	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			03/22/18 10:08	1
Methyl acetate	0.58	U	5.0	0.58	ug/L			03/22/18 10:08	1
Methyl tert-butyl ether	0.13	U	1.0	0.13	ug/L			03/22/18 10:08	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
Methylene Chloride	0.21	U	1.0	0.21	ug/L			03/22/18 10:08	1
m-Xylene & p-Xylene	0.28	U	1.0	0.28	ug/L			03/22/18 10:08	1
n-Butylbenzene	0.27	U	1.0	0.27	ug/L			03/22/18 10:08	1
N-Propylbenzene	0.29	U	1.0	0.29	ug/L			03/22/18 10:08	1
o-Xylene	0.32	U	1.0	0.32	ug/L			03/22/18 10:08	1

Client Sample ID: Recharge Basin

Date Collected: 03/16/18 11:00
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.31	U	1.0	0.31	ug/L			03/22/18 10:08	1
Styrene	0.17	U	1.0	0.17	ug/L			03/22/18 10:08	1
tert-Butylbenzene	0.28	U	1.0	0.28	ug/L			03/22/18 10:08	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			03/22/18 10:08	1
Toluene	0.25	U	1.0	0.25	ug/L			03/22/18 10:08	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			03/22/18 10:08	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			03/22/18 10:08	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			03/22/18 10:08	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			03/22/18 10:08	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			03/22/18 10:08	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			03/22/18 10:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/22/18 10:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/22/18 10:08*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*03/22/18 10:08*	*1*
Dibromofluoromethane (Surr)	*123*		*72 - 131*		*03/22/18 10:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/22/18 10:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.046	U	0.42	0.046	ug/L		03/19/18 09:12	03/20/18 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.66	U	10	0.66	ug/L		03/19/18 09:12	03/20/18 03:50	1
1,2,4,5-Tetrachlorobenzene	0.45	U	10	0.45	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,2'-oxybis[1-chloropropane]	0.97	U	10	0.97	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,3,4,6-Tetrachlorophenol	0.72	U	10	0.72	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4,5-Trichlorophenol	0.51	U	10	0.51	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4,6-Trichlorophenol	0.55	U	10	0.55	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4-Dichlorophenol	0.66	U	10	0.66	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4-Dimethylphenol	0.95	U	10	0.95	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4-Dinitrophenol	2.5	U	21	2.5	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,4-Dinitrotoluene	1.1	U	2.1	1.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
2,6-Dinitrotoluene	0.92	U	2.1	0.92	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Chloronaphthalene	0.64	U	10	0.64	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Chlorophenol	0.77	U	10	0.77	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Methylnaphthalene	0.92	U	10	0.92	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Methylphenol	1.3	U	10	1.3	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Nitroaniline	0.68	U	10	0.68	ug/L		03/19/18 09:12	03/20/18 03:50	1
2-Nitrophenol	0.61	U	10	0.61	ug/L		03/19/18 09:12	03/20/18 03:50	1
3 & 4 Methylphenol	0.92	U	10	0.92	ug/L		03/19/18 09:12	03/20/18 03:50	1
3,3'-Dichlorobenzidine	1.1	U	10	1.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
3-Nitroaniline	0.85	U	10	0.85	ug/L		03/19/18 09:12	03/20/18 03:50	1
4,6-Dinitro-2-methylphenol	2.1	U	21	2.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Bromophenyl phenyl ether	1.1	U	10	1.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Chloro-3-methylphenol	0.79	U	10	0.79	ug/L		03/19/18 09:12	03/20/18 03:50	1

Client Sample ID: Recharge Basin
Lab Sample ID: 460-152136-1

Date Collected: 03/16/18 11:00
Matrix: Water

Date Received: 03/16/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	0.76	U	10	0.76	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Chlorophenyl phenyl ether	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Methylphenol	0.91	U	10	0.91	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Nitroaniline	0.50	U	10	0.50	ug/L		03/19/18 09:12	03/20/18 03:50	1
4-Nitrophenol	4.8	U	21	4.8	ug/L		03/19/18 09:12	03/20/18 03:50	1
Acenaphthene	0.92	U	10	0.92	ug/L		03/19/18 09:12	03/20/18 03:50	1
Acenaphthylene	0.68	U	10	0.68	ug/L		03/19/18 09:12	03/20/18 03:50	1
Acetophenone	1.1	U	10	1.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
Anthracene	0.59	U	10	0.59	ug/L		03/19/18 09:12	03/20/18 03:50	1
Atrazine	0.80	U	2.1	0.80	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzaldehyde	0.90	U	10	0.90	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzo[a]anthracene	0.57	U	1.0	0.57	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzo[a]pyrene	0.17	U	1.0	0.17	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzo[b]fluoranthene	0.46	U	2.1	0.46	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzo[g,h,i]perylene	0.78	U	10	0.78	ug/L		03/19/18 09:12	03/20/18 03:50	1
Benzo[k]fluoranthene	0.19	U	1.0	0.19	ug/L		03/19/18 09:12	03/20/18 03:50	1
Bis(2-chloroethoxy)methane	0.72	U	10	0.72	ug/L		03/19/18 09:12	03/20/18 03:50	1
Bis(2-chloroethyl)ether	0.13	U	1.0	0.13	ug/L		03/19/18 09:12	03/20/18 03:50	1
Bis(2-ethylhexyl) phthalate	0.75	U	2.1	0.75	ug/L		03/19/18 09:12	03/20/18 03:50	1
Butyl benzyl phthalate	0.63	U	10	0.63	ug/L		03/19/18 09:12	03/20/18 03:50	1
Caprolactam	1.1	U	10	1.1	ug/L		03/19/18 09:12	03/20/18 03:50	1
Carbazole	0.89	U	10	0.89	ug/L		03/19/18 09:12	03/20/18 03:50	1
Chrysene	0.70	U	2.1	0.70	ug/L		03/19/18 09:12	03/20/18 03:50	1
Dibenz(a,h)anthracene	0.094	U	1.0	0.094	ug/L		03/19/18 09:12	03/20/18 03:50	1
Dibenzofuran	0.89	U	10	0.89	ug/L		03/19/18 09:12	03/20/18 03:50	1
Diethyl phthalate	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/20/18 03:50	1
Dimethyl phthalate	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/20/18 03:50	1
Di-n-butyl phthalate	0.85	U	10	0.85	ug/L		03/19/18 09:12	03/20/18 03:50	1
Di-n-octyl phthalate	0.72	U	10	0.72	ug/L		03/19/18 09:12	03/20/18 03:50	1
Fluoranthene	0.75	U	10	0.75	ug/L		03/19/18 09:12	03/20/18 03:50	1
Fluorene	0.83	U	10	0.83	ug/L		03/19/18 09:12	03/20/18 03:50	1
Hexachlorobenzene	0.49	U	1.0	0.49	ug/L		03/19/18 09:12	03/20/18 03:50	1
Hexachlorobutadiene	0.79	U	1.0	0.79	ug/L		03/19/18 09:12	03/20/18 03:50	1
Hexachlorocyclopentadiene	0.64	U	10	0.64	ug/L		03/19/18 09:12	03/20/18 03:50	1
Hexachloroethane	0.094	U	2.1	0.094	ug/L		03/19/18 09:12	03/20/18 03:50	1
Indeno[1,2,3-cd]pyrene	0.22	U	2.1	0.22	ug/L		03/19/18 09:12	03/20/18 03:50	1
Isophorone	0.70	U	10	0.70	ug/L		03/19/18 09:12	03/20/18 03:50	1
Naphthalene	0.83	U	10	0.83	ug/L		03/19/18 09:12	03/20/18 03:50	1
Nitrobenzene	0.51	U	1.0	0.51	ug/L		03/19/18 09:12	03/20/18 03:50	1
N-Nitrosodi-n-propylamine	0.86	U	1.0	0.86	ug/L		03/19/18 09:12	03/20/18 03:50	1
N-Nitrosodiphenylamine	0.77	U	10	0.77	ug/L		03/19/18 09:12	03/20/18 03:50	1
Pentachlorophenol	2.3	U	21	2.3	ug/L		03/19/18 09:12	03/20/18 03:50	1
Phenanthrene	0.68	U	10	0.68	ug/L		03/19/18 09:12	03/20/18 03:50	1
Phenol	0.43	U	10	0.43	ug/L		03/19/18 09:12	03/20/18 03:50	1
Pyrene	0.86	U	10	0.86	ug/L		03/19/18 09:12	03/20/18 03:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*03/19/18 09:12*	*03/20/18 03:50*	*1*

Client Sample ID: Recharge Basin

Date Collected: 03/16/18 11:00
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*111*		*26 - 139*	*03/19/18 09:12*	*03/20/18 03:50*	*1*
2-Fluorobiphenyl	*91*		*45 - 107*	*03/19/18 09:12*	*03/20/18 03:50*	*1*
2-Fluorophenol (Surr)	*52*		*25 - 58*	*03/19/18 09:12*	*03/20/18 03:50*	*1*
Nitrobenzene-d5 (Surr)	*102*		*51 - 108*	*03/19/18 09:12*	*03/20/18 03:50*	*1*
Phenol-d5 (Surr)	*34*		*14 - 39*	*03/19/18 09:12*	*03/20/18 03:50*	*1*
Terphenyl-d14 (Surr)	*114*		*40 - 148*	*03/19/18 09:12*	*03/20/18 03:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		03/20/18 08:11	03/21/18 14:46	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		03/20/18 08:11	03/21/18 14:46	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 14:46	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 14:46	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		03/20/18 08:11	03/21/18 14:46	1
beta-BHC	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 14:46	1
Chlordane (technical)	0.055	U	0.50	0.055	ug/L		03/20/18 08:11	03/21/18 14:46	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		03/20/18 08:11	03/21/18 14:46	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endrin	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		03/20/18 08:11	03/21/18 14:46	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		03/20/18 08:11	03/21/18 14:46	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		03/20/18 08:11	03/21/18 14:46	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 14:46	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		03/20/18 08:11	03/21/18 14:46	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 14:46	1
Toxaphene	0.11	U	0.50	0.11	ug/L		03/20/18 08:11	03/21/18 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*10 - 150*	*03/20/18 08:11*	*03/21/18 14:46*	*1*
DCB Decachlorobiphenyl	*79*		*10 - 150*	*03/20/18 08:11*	*03/21/18 14:46*	*1*
Tetrachloro-m-xylene	*94*		*12 - 136*	*03/20/18 08:11*	*03/21/18 14:46*	*1*
Tetrachloro-m-xylene	*89*		*12 - 136*	*03/20/18 08:11*	*03/21/18 14:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1221	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1232	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1242	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1248	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1254	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1260	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor 1268	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 14:28	1
Aroclor-1262	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 14:28	1
Polychlorinated biphenyls, Total	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*10 - 150*	*03/20/18 08:25*	*03/21/18 14:28*	*1*

Client Sample ID: Recharge Basin

Date Collected: 03/16/18 11:00
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-1

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		10 - 150	03/20/18 08:25	03/21/18 14:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33.0**	**J**	40.0	15.0	ug/L		03/17/18 23:05	03/19/18 18:34	2
Antimony	**1.6**	**J**	2.0	0.62	ug/L		03/17/18 23:05	03/19/18 18:34	2
Arsenic	0.77	U	2.0	0.77	ug/L		03/17/18 23:05	03/19/18 18:34	2
Barium	**18.3**		4.0	1.1	ug/L		03/17/18 23:05	03/19/18 18:34	2
Beryllium	0.26	U	0.80	0.26	ug/L		03/17/18 23:05	03/19/18 18:34	2
Cadmium	0.61	U	2.0	0.61	ug/L		03/17/18 23:05	03/19/18 18:34	2
Calcium	**11000**		200	67.6	ug/L		03/17/18 23:05	03/19/18 18:34	2
Chromium	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:34	2
Cobalt	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:34	2
Copper	1.9	U	4.0	1.9	ug/L		03/17/18 23:05	03/19/18 18:34	2
Iron	**119**	**J**	120	45.7	ug/L		03/17/18 23:05	03/19/18 18:34	2
Lead	0.37	U	1.2	0.37	ug/L		03/17/18 23:05	03/19/18 18:34	2
Magnesium	**1750**		200	65.7	ug/L		03/17/18 23:05	03/19/18 18:34	2
Manganese	**20.7**		8.0	2.7	ug/L		03/17/18 23:05	03/19/18 18:34	2
Nickel	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:34	2
Potassium	**3230**		200	64.9	ug/L		03/17/18 23:05	03/19/18 18:34	2
Selenium	0.69	U	10.0	0.69	ug/L		03/17/18 23:05	03/19/18 18:34	2
Silver	1.4	U	2.0	1.4	ug/L		03/17/18 23:05	03/19/18 18:34	2
Sodium	**9810**		200	75.7	ug/L		03/17/18 23:05	03/19/18 18:34	2
Thallium	0.24	U	0.80	0.24	ug/L		03/17/18 23:05	03/19/18 18:34	2
Vanadium	**1.4**	**J**	4.0	1.2	ug/L		03/17/18 23:05	03/19/18 18:34	2
Zinc	**7.8**	**J**	16.0	5.4	ug/L		03/17/18 23:05	03/19/18 18:34	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15.0	U	40.0	15.0	ug/L		03/19/18 09:51	03/20/18 00:28	2
Antimony	0.62	U	2.0	0.62	ug/L		03/19/18 09:51	03/20/18 00:28	2
Arsenic	0.77	U	2.0	0.77	ug/L		03/19/18 09:51	03/20/18 00:28	2
Barium	**16.4**		4.0	1.1	ug/L		03/19/18 09:51	03/20/18 00:28	2
Beryllium	0.26	U	0.80	0.26	ug/L		03/19/18 09:51	03/20/18 00:28	2
Cadmium	0.61	U	2.0	0.61	ug/L		03/19/18 09:51	03/20/18 00:28	2
Calcium	**10700**		200	67.6	ug/L		03/19/18 09:51	03/20/18 00:28	2
Chromium	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:28	2
Cobalt	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:28	2
Copper	1.9	U	4.0	1.9	ug/L		03/19/18 09:51	03/20/18 00:28	2
Iron	45.7	U	120	45.7	ug/L		03/19/18 09:51	03/20/18 00:28	2
Lead	0.37	U	1.2	0.37	ug/L		03/19/18 09:51	03/20/18 00:28	2
Magnesium	**1670**		200	65.7	ug/L		03/19/18 09:51	03/20/18 00:28	2
Manganese	2.7	U	8.0	2.7	ug/L		03/19/18 09:51	03/20/18 00:28	2
Nickel	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:28	2
Potassium	**3060**		200	64.9	ug/L		03/19/18 09:51	03/20/18 00:28	2
Selenium	0.69	U	10.0	0.69	ug/L		03/19/18 09:51	03/20/18 00:28	2
Silver	1.4	U	2.0	1.4	ug/L		03/19/18 09:51	03/20/18 00:28	2
Sodium	**9310**		200	75.7	ug/L		03/19/18 09:51	03/20/18 00:28	2
Thallium	0.24	U	0.80	0.24	ug/L		03/19/18 09:51	03/20/18 00:28	2

Client Sample ID: Recharge Basin

Lab Sample ID: 460-152136-1
Date Collected: 03/16/18 11:00
Matrix: Water
Date Received: 03/16/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	1.2	U	4.0	1.2	ug/L		03/19/18 09:51	03/20/18 00:28	2
Zinc	5.4	U	16.0	5.4	ug/L		03/19/18 09:51	03/20/18 00:28	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		03/19/18 12:30	03/19/18 15:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		03/19/18 12:43	03/19/18 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.7	U	10.0	2.7	ug/L			03/17/18 05:02	1
Cyanide, Total	2.0	U	10.0	2.0	ug/L		03/22/18 12:46	03/23/18 11:26	1

Client Sample ID: Ash Pit

Lab Sample ID: 460-152136-2
Date Collected: 03/16/18 09:45
Matrix: Solid
Date Received: 03/16/18 20:20
Percent Solids: 30.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0046	0.0011	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,1,2,2-Tetrachloroethane	0.00099	U	0.0046	0.00099	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0014	U	0.0046	0.0014	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,1,2-Trichloroethane	0.00082	U	0.0046	0.00082	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,1-Dichloroethane	0.00095	U	0.0046	0.00095	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,1-Dichloroethene	0.0010	U	0.0046	0.0010	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2,3-Trichlorobenzene	0.00084	U	0.0046	0.00084	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2,4-Trichlorobenzene	0.00043	U	0.0046	0.00043	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2,4-Trimethylbenzene	0.00043	U	0.0046	0.00043	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2-Dibromo-3-Chloropropane	0.0021	U	0.0046	0.0021	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2-Dichlorobenzene	0.00067	U	0.0046	0.00067	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2-Dichloroethane	**0.0015**	**J**	0.0046	0.0014	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,2-Dichloropropane	0.0020	U	0.0046	0.0020	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,3,5-Trimethylbenzene	0.00053	U	0.0046	0.00053	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,3-Dichlorobenzene	0.00073	U	0.0046	0.00073	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
1,4-Dichlorobenzene	0.00046	U	0.0046	0.00046	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
2-Butanone (MEK)	0.0051	U	0.023	0.0051	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
2-Hexanone	0.0036	U	0.023	0.0036	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
4-Methyl-2-pentanone (MIBK)	0.0031	U	0.023	0.0031	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Acetone	**0.054**	**B**	0.023	0.018	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Acrolein	0.13	U	0.46	0.13	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Acrylonitrile	0.0076	U *	0.046	0.0076	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Benzene	**0.014**		0.0046	0.0012	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Bromoform	0.0020	U	0.0046	0.0020	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Bromomethane	0.0022	U	0.0046	0.0022	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Carbon disulfide	0.0012	U	0.0046	0.0012	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Carbon tetrachloride	0.00084	U	0.0046	0.00084	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Chlorobenzene	0.00082	U	0.0046	0.00082	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2
Matrix: Solid
Percent Solids: 30.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	0.0013	U	0.0046	0.0013	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Chlorodibromomethane	0.00090	U	0.0046	0.00090	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Chloroethane	0.0024	U	0.0046	0.0024	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Chloroform	0.0015	U	0.0046	0.0015	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Chloromethane	0.0020	U	0.0046	0.0020	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
cis-1,2-Dichloroethene	0.00070	U	0.0046	0.00070	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
cis-1,3-Dichloropropene	0.0013	U	0.0046	0.0013	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Cyclohexane	0.0010	U	0.0046	0.0010	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Dichlorobromomethane	0.0012	U	0.0046	0.0012	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Dichlorodifluoromethane	0.0016	U	0.0046	0.0016	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Ethylbenzene	0.00092	U	0.0046	0.00092	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Ethylene Dibromide	0.00083	U	0.0046	0.00083	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Isopropylbenzene	0.00058	U	0.0046	0.00058	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Methyl acetate	0.020	U *	0.023	0.020	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Methyl tert-butyl ether	0.00058	U	0.0046	0.00058	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Methylcyclohexane	0.00074	U	0.0046	0.00074	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Methylene Chloride	**0.0013**	**J B**	0.0046	0.00075	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
m-Xylene & p-Xylene	**0.00098**	**J**	0.0046	0.00080	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
n-Butylbenzene	0.00066	U	0.0046	0.00066	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
N-Propylbenzene	0.00081	U	0.0046	0.00081	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
o-Xylene	**0.00049**	**J**	0.0046	0.00044	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
sec-Butylbenzene	0.00041	U	0.0046	0.00041	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Styrene	0.00057	U	0.0046	0.00057	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
tert-Butylbenzene	0.00057	U	0.0046	0.00057	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Tetrachloroethene	0.00066	U	0.0046	0.00066	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Toluene	0.0029	U	0.0046	0.0029	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
trans-1,2-Dichloroethene	0.0011	U	0.0046	0.0011	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
trans-1,3-Dichloropropene	0.0012	U	0.0046	0.0012	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Trichloroethene	0.00067	U	0.0046	0.00067	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Trichlorofluoromethane	0.0019	U	0.0046	0.0019	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Vinyl chloride	0.0025	U	0.0046	0.0025	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1
Xylenes, Total	**0.0015**	**J**	0.0092	0.0012	mg/Kg	☼	03/17/18 09:47	03/20/18 14:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼			*03/17/18 09:47*	*03/20/18 14:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*78 - 135*	*03/17/18 09:47*	*03/20/18 14:33*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*03/17/18 09:47*	*03/20/18 14:33*	*1*
Dibromofluoromethane (Surr)	*112*		*61 - 149*	*03/17/18 09:47*	*03/20/18 14:33*	*1*
Toluene-d8 (Surr)	*110*		*73 - 121*	*03/17/18 09:47*	*03/20/18 14:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	3.4	U	10	3.4	ug/L			03/22/18 10:07	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			03/22/18 10:07	10
1,4-Dichlorobenzene	3.3	U	10	3.3	ug/L			03/22/18 10:07	10
2-Butanone (MEK)	22	U	50	22	ug/L			03/22/18 10:07	10
Benzene	**1.9**	**J**	10	1.9	ug/L			03/22/18 10:07	10
Carbon tetrachloride	3.3	U	10	3.3	ug/L			03/22/18 10:07	10

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	2.4	U	10	2.4	ug/L			03/22/18 10:07	10
Chloroform	2.2	U	10	2.2	ug/L			03/22/18 10:07	10
Tetrachloroethene	3.6	U	10	3.6	ug/L			03/22/18 10:07	10
Trichloroethene	2.2	U	10	2.2	ug/L			03/22/18 10:07	10
Vinyl chloride	2.0	U	10	2.0	ug/L			03/22/18 10:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*74 - 132*		*03/22/18 10:07*	*10*
4-Bromofluorobenzene	*100*		*77 - 124*		*03/22/18 10:07*	*10*
Dibromofluoromethane (Surr)	*92*		*72 - 131*		*03/22/18 10:07*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/22/18 10:07*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**1.9**		1.1	0.015	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
1,2,4,5-Tetrachlorobenzene	0.014	U	1.1	0.014	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
1,4-Dioxane	0.030	U	1.1	0.030	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,2'-oxybis[1-chloropropane]	0.020	U	1.1	0.020	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,3,4,6-Tetrachlorophenol	0.075	U	1.1	0.075	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4,5-Trichlorophenol	0.036	U	1.1	0.036	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4,6-Trichlorophenol	0.056	U	0.44	0.056	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4-Dichlorophenol	0.023	U	0.44	0.023	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4-Dimethylphenol	**0.093**	**J**	1.1	0.049	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4-Dinitrophenol	0.54	U	0.89	0.54	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,4-Dinitrotoluene	0.056	U	0.22	0.056	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2,6-Dinitrotoluene	0.036	U	0.22	0.036	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Chloronaphthalene	0.051	U	1.1	0.051	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Chlorophenol	0.015	U	1.1	0.015	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Methylnaphthalene	**0.34**	**J**	1.1	0.014	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Methylphenol	**0.19**	**J**	1.1	0.018	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Nitroaniline	0.041	U	1.1	0.041	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
2-Nitrophenol	0.035	U	1.1	0.035	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
3 & 4 Methylphenol	**0.48**	**J**	1.1	0.019	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
3,3'-Dichlorobenzidine	0.17	U	0.44	0.17	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
3-Nitroaniline	0.060	U	1.1	0.060	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4,6-Dinitro-2-methylphenol	0.18	U	0.89	0.18	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Bromophenyl phenyl ether	0.014	U	1.1	0.014	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Chloro-3-methylphenol	0.018	U	1.1	0.018	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Chloroaniline	0.077	U	1.1	0.077	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Chlorophenyl phenyl ether	0.017	U	1.1	0.017	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Methylphenol	**0.48**	**J**	1.1	0.019	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Nitroaniline	0.041	U	1.1	0.041	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
4-Nitrophenol	0.18	U	2.2	0.18	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Acenaphthene	0.080	U	1.1	0.080	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Acenaphthylene	**0.16**	**J**	1.1	0.011	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Acetophenone	**1.2**		1.1	0.018	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Anthracene	**0.063**	**J**	1.1	0.012	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Atrazine	0.028	U	0.44	0.028	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Benzaldehyde	**0.85**	**J**	1.1	0.048	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Benzo[a]anthracene	0.038	U	0.11	0.038	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1

Client Sample ID: Ash Pit

Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2

Matrix: Solid
Percent Solids: 30.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.047**	**J**	0.11	0.029	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Benzo[b]fluoranthene	**0.091**	**J**	0.11	0.029	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Benzo[g,h,i]perylene	0.033	U	1.1	0.033	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Benzo[k]fluoranthene	0.022	U	0.11	0.022	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Bis(2-chloroethoxy)methane	0.038	U	1.1	0.038	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Bis(2-chloroethyl)ether	0.013	U	0.11	0.013	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Bis(2-ethylhexyl) phthalate	**1.7**		1.1	0.058	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Butyl benzyl phthalate	0.052	U	1.1	0.052	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Caprolactam	**1.6**		1.1	0.066	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Carbazole	0.013	U	1.1	0.013	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Chrysene	**0.12**	**J**	1.1	0.019	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Dibenz(a,h)anthracene	0.048	U	0.11	0.048	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Dibenzofuran	**0.14**	**J**	1.1	0.016	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Diethyl phthalate	0.016	U	1.1	0.016	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Dimethyl phthalate	0.013	U	1.1	0.013	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Di-n-butyl phthalate	0.19	U	1.1	0.19	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Di-n-octyl phthalate	**0.46**	**J**	1.1	0.058	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Fluoranthene	**0.17**	**J**	1.1	0.014	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Fluorene	**0.081**	**J**	1.1	0.015	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Hexachlorobenzene	0.016	U	0.11	0.016	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Hexachlorobutadiene	0.023	U	0.22	0.023	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Hexachlorocyclopentadiene	0.097	U	1.1	0.097	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Hexachloroethane	0.017	U	0.11	0.017	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Indeno[1,2,3-cd]pyrene	0.043	U	0.11	0.043	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Isophorone	0.029	U	0.44	0.029	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Naphthalene	**1.2**		1.1	0.019	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Nitrobenzene	0.027	U	0.11	0.027	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
N-Nitrosodi-n-propylamine	0.018	U	0.11	0.018	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
N-Nitrosodiphenylamine	0.021	U	1.1	0.021	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Pentachlorophenol	0.23	U	0.89	0.23	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Phenanthrene	**0.42**	**J**	1.1	0.019	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Phenol	**0.92**	**J**	1.1	0.016	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1
Pyrene	**0.20**	**J**	1.1	0.027	mg/Kg	☼	03/21/18 21:20	03/22/18 12:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Furfural	*1.2*	*J N*	*mg/Kg*	☼	*2.96*	*98-01-1*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Bicyclo[4.2.0]octa-1,3,5-triene	*1.7*	*J N*	*mg/Kg*	☼	*3.54*	*694-87-1*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-carbonitrile	*4.1*	*J N*	*mg/Kg*	☼	*4.32*	*103495-51-8*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Benzene, 1,3,5-trimethyl-	*1.6*	*J N*	*mg/Kg*	☼	*4.41*	*108-67-8*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Benzoic Acid	*0.95*	*J N*	*mg/Kg*	☼	*5.52*	*65-85-0*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Unknown	*0.97*	*J*	*mg/Kg*	☼	*7.03*		*03/21/18 21:20*	*03/22/18 12:38*	*1*
Phenol, 4,4'-(1-methylethylidene)bis-	*13*	*J N*	*mg/Kg*	☼	*10.26*	*80-05-7*	*03/21/18 21:20*	*03/22/18 12:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 103*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
2-Fluorobiphenyl	*75*		*38 - 95*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
2-Fluorophenol (Surr)	*68*		*25 - 92*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 94*	*03/21/18 21:20*	*03/22/18 12:38*	*1*
Phenol-d5 (Surr)	*73*		*32 - 91*	*03/21/18 21:20*	*03/22/18 12:38*	*1*

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2
Matrix: Solid
Percent Solids: 30.0

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*78*		*24 - 109*	*03/21/18 21:20*	*03/22/18 12:38*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0038	U	0.022	0.0038	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
4,4'-DDE	0.0026	U	0.022	0.0026	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
4,4'-DDT	0.0041	U	0.022	0.0041	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Aldrin	0.0034	U	0.022	0.0034	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
alpha-BHC	0.0023	U	0.0067	0.0023	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
beta-BHC	0.0025	U	0.0067	0.0025	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Chlordane (technical)	0.054	U	0.22	0.054	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
delta-BHC	0.0014	U	0.0067	0.0014	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Dieldrin	0.0029	U	0.0067	0.0029	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endosulfan I	0.0034	U	0.022	0.0034	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endosulfan II	0.0057	U	0.022	0.0057	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endosulfan sulfate	0.0028	U	0.022	0.0028	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endrin	0.0032	U	0.022	0.0032	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endrin aldehyde	0.0053	U	0.022	0.0053	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Endrin ketone	0.0043	U	0.022	0.0043	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
gamma-BHC (Lindane)	0.0021	U	0.0067	0.0021	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Heptachlor	0.0026	U	0.022	0.0026	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Heptachlor epoxide	0.0033	U	0.022	0.0033	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Methoxychlor	0.0051	U	0.022	0.0051	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1
Toxaphene	0.081	U	0.22	0.081	mg/Kg	☼	03/20/18 14:42	03/22/18 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*113*		*69 - 150*	*03/20/18 14:42*	*03/22/18 11:24*	*1*
DCB Decachlorobiphenyl	*97*		*69 - 150*	*03/20/18 14:42*	*03/22/18 11:24*	*1*
Tetrachloro-m-xylene	*92*		*74 - 150*	*03/20/18 14:42*	*03/22/18 11:24*	*1*
Tetrachloro-m-xylene	*88*		*74 - 150*	*03/20/18 14:42*	*03/22/18 11:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.030	U	0.22	0.030	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1221	0.030	U	0.22	0.030	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1232	0.030	U	0.22	0.030	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1242	0.030	U	0.22	0.030	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1248	0.030	U	0.22	0.030	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1254	0.031	U	0.22	0.031	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1260	0.031	U	0.22	0.031	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor 1268	0.031	U	0.22	0.031	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Aroclor-1262	0.031	U	0.22	0.031	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1
Polychlorinated biphenyls, Total	0.031	U	0.22	0.031	mg/Kg	☼	03/20/18 14:37	03/22/18 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*99*		*53 - 150*	*03/20/18 14:37*	*03/22/18 14:28*	*1*
DCB Decachlorobiphenyl	*137*		*53 - 150*	*03/20/18 14:37*	*03/22/18 14:28*	*1*

Client Sample ID: Ash Pit

Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2

Matrix: Solid
Percent Solids: 30.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3930		100	20.6	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Antimony	90.0		10.0	1.2	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Arsenic	22.6		7.5	1.9	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Barium	832		100	8.1	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Beryllium	0.28	J	1.0	0.12	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Cadmium	2.2		2.0	0.30	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Calcium	24500		2510	256	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Chromium	1160		5.0	1.4	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Cobalt	11.3	J	25.1	2.9	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Copper	806		12.5	2.8	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Iron	42200		75.3	13.6	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Lead	45.2		5.0	1.5	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Magnesium	2380	J	2510	193	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Manganese	874		7.5	0.78	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Nickel	26.5		20.1	1.9	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Potassium	2900		2510	134	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Selenium	3.0	U	10.0	3.0	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Silver	0.91	J	5.0	0.77	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Sodium	923	J	2510	193	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Thallium	3.0	U	10.0	3.0	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Vanadium	4.7	J	25.1	3.0	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4
Zinc	5080		15.1	1.3	mg/Kg	☼	03/17/18 23:50	03/22/18 13:21	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	U	0.055	0.036	mg/Kg	☼	03/19/18 04:20	03/19/18 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	1.8	U	6.8	1.8	mg/Kg	☼	03/20/18 09:41	03/20/18 15:00	1
Cyanide, Total	2.1		0.77	0.20	mg/Kg	☼	03/21/18 09:37	03/22/18 10:18	1

Client Sample ID: Trip Blank

Date Collected: 03/16/18 11:30
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			03/22/18 09:43	1
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			03/22/18 09:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34	ug/L			03/22/18 09:43	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			03/22/18 09:43	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			03/22/18 09:43	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			03/22/18 09:43	1
1,2,3-Trichlorobenzene	0.35	U	1.0	0.35	ug/L			03/22/18 09:43	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			03/22/18 09:43	1
1,2,4-Trimethylbenzene	0.23	U	1.0	0.23	ug/L			03/22/18 09:43	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			03/22/18 09:43	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/22/18 09:43	1

Client Sample ID: Trip Blank
Lab Sample ID: 460-152136-3

Date Collected: 03/16/18 11:30
Matrix: Water

Date Received: 03/16/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			03/22/18 09:43	1
1,3,5-Trimethylbenzene	0.25	U	1.0	0.25	ug/L			03/22/18 09:43	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 09:43	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 09:43	1
2-Butanone (MEK)	2.2	U	5.0	2.2	ug/L			03/22/18 09:43	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			03/22/18 09:43	1
4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63	ug/L			03/22/18 09:43	1
Acetone	1.1	U	5.0	1.1	ug/L			03/22/18 09:43	1
Acrolein	0.88	U *	4.0	0.88	ug/L			03/22/18 09:43	1
Acrylonitrile	1.0	U	2.0	1.0	ug/L			03/22/18 09:43	1
Benzene	0.090	U	1.0	0.090	ug/L			03/22/18 09:43	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/22/18 09:43	1
Bromomethane	0.18	U *	1.0	0.18	ug/L			03/22/18 09:43	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/22/18 09:43	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			03/22/18 09:43	1
Chlorobromomethane	0.30	U	1.0	0.30	ug/L			03/22/18 09:43	1
Chlorodibromomethane	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
Chloroethane	0.37	U	1.0	0.37	ug/L			03/22/18 09:43	1
Chloroform	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
Chloromethane	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/22/18 09:43	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			03/22/18 09:43	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			03/22/18 09:43	1
Dichlorobromomethane	0.15	U	1.0	0.15	ug/L			03/22/18 09:43	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			03/22/18 09:43	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			03/22/18 09:43	1
Ethylene Dibromide	0.19	U	1.0	0.19	ug/L			03/22/18 09:43	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			03/22/18 09:43	1
Methyl acetate	0.58	U	5.0	0.58	ug/L			03/22/18 09:43	1
Methyl tert-butyl ether	0.13	U	1.0	0.13	ug/L			03/22/18 09:43	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
Methylene Chloride	0.21	U	1.0	0.21	ug/L			03/22/18 09:43	1
m-Xylene & p-Xylene	0.28	U	1.0	0.28	ug/L			03/22/18 09:43	1
n-Butylbenzene	0.27	U	1.0	0.27	ug/L			03/22/18 09:43	1
N-Propylbenzene	0.29	U	1.0	0.29	ug/L			03/22/18 09:43	1
o-Xylene	0.32	U	1.0	0.32	ug/L			03/22/18 09:43	1
sec-Butylbenzene	0.31	U	1.0	0.31	ug/L			03/22/18 09:43	1
Styrene	0.17	U	1.0	0.17	ug/L			03/22/18 09:43	1
tert-Butylbenzene	0.28	U	1.0	0.28	ug/L			03/22/18 09:43	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			03/22/18 09:43	1
Toluene	0.25	U	1.0	0.25	ug/L			03/22/18 09:43	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			03/22/18 09:43	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			03/22/18 09:43	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			03/22/18 09:43	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			03/22/18 09:43	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			03/22/18 09:43	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			03/22/18 09:43	1

Client Sample ID: Trip Blank
Lab Sample ID: 460-152136-3

Date Collected: 03/16/18 11:30
Matrix: Water

Date Received: 03/16/18 20:20

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/22/18 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		74 - 132		03/22/18 09:43	1
4-Bromofluorobenzene	97		77 - 124		03/22/18 09:43	1
Dibromofluoromethane (Surr)	111		72 - 131		03/22/18 09:43	1
Toluene-d8 (Surr)	91		80 - 120		03/22/18 09:43	1

Surrogate Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(61-149)	(73-121)
460-152136-2	Ash Pit	119	100	112	110
LCS 460-504711/4	Lab Control Sample	114	105	109	107
LCSD 460-504711/5	Lab Control Sample Dup	110	105	107	105
MB 460-504711/8	Method Blank	113	103	106	104

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(72-131)	(80-120)
LCS 460-504963/3	Lab Control Sample	99	100	105	94
LCS 460-505151/3	Lab Control Sample	90	99	93	100
LCSD 460-504963/4	Lab Control Sample Dup	100	98	108	93
LCSD 460-505151/4	Lab Control Sample Dup	90	99	93	101
MB 460-504963/7	Method Blank	112	107	120	102
MB 460-505151/7	Method Blank	91	98	90	100

Surrogate Legend

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

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(72-131)	(80-120)
460-152136-2	Ash Pit	93	100	92	102
LB 460-504821/1-A	Method Blank	102	99	109	95

Surrogate Legend

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

Surrogate Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(72-131)	(80-120)
460-152136-1	Recharge Basin	113	107	123	102
460-152136-3	Trip Blank	103	97	111	91
LCS 460-505144/3	Lab Control Sample	102	102	109	93
LCSD 460-505144/4	Lab Control Sample Dup	102	99	109	92
MB 460-505144/7	Method Blank	104	99	113	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-103)	(38-95)	(25-92)	(37-94)	(32-91)	(24-109)
460-152022-E-1-B MS	Matrix Spike	95	82	82	79	83	86
460-152022-E-1-C MSD	Matrix Spike Duplicate	100	85	84	81	84	90
460-152136-2	Ash Pit	87	75	68	66	73	78
LCS 460-505109/2-A	Lab Control Sample	101	88	91	87	90	91
LCS 460-505109/3-A	Lab Control Sample	102	89	94 X	90	92 X	94
MB 460-505109/1-A	Method Blank	90	81	86	82	85	85

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(26-139)	(45-107)	(25-58)	(51-108)	(14-39)	(40-148)
460-152136-1	Recharge Basin	111	91	52	102	34	114
LCS 460-504508/2-A	Lab Control Sample	105	85	40	88	26	101
LCS 460-504508/4-A	Lab Control Sample	100	87	43	93	27	109
LCSD 460-504508/3-A	Lab Control Sample Dup	108	87	38	90	25	103
LCSD 460-504508/5-A	Lab Control Sample Dup	99	82	43	91	28	113
MB 460-504508/1-A	Method Blank	105	92	45	95	29	108

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(69-150)	(69-150)	(74-150)	(74-150)
460-152046-E-4-G MS	Matrix Spike	98	73	93	70 X
460-152046-E-4-H MSD	Matrix Spike Duplicate	100	99	95	93
460-152136-2	Ash Pit	113	97	92	88
LCS 460-504832/2-A	Lab Control Sample	99	92	95	90
MB 460-504832/1-A	Method Blank	95	87	92	89

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(12-136)	(12-136)
460-152136-1	Recharge Basin	83	79	94	89
460-152194-I-4-A MS	Matrix Spike	94	90	90	101
460-152194-J-4-A MSD	Matrix Spike Duplicate	60	57	86	97
LCS 460-504710/2-A	Lab Control Sample	92	88	91	100
MB 460-504710/1-A	Method Blank	80	76	81	80

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(53-150)	(53-150)
460-152046-E-4-D MS	Matrix Spike	97	102
460-152046-E-4-E MSD	Matrix Spike Duplicate	101	109
460-152136-2	Ash Pit	99	137
LCS 460-504830/2-A	Lab Control Sample	110	118
MB 460-504830/1-A	Method Blank	98	113

Surrogate Legend
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)								
460-152136-1	Recharge Basin	66	70								
LCS 460-504716/2-A	Lab Control Sample	109	113								
LCSD 460-504716/3-A	Lab Control Sample Dup	108	113								
MB 460-504716/1-A	Method Blank	104	109								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 460-504711/8
Matrix: Solid
Analysis Batch: 504711

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/20/18 12:07	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/20/18 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/20/18 12:07	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/20/18 12:07	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/20/18 12:07	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1
1,2,4-Trichlorobenzene	0.000092	U	0.0010	0.000092	mg/Kg			03/20/18 12:07	1
1,2,4-Trimethylbenzene	0.000094	U	0.0010	0.000094	mg/Kg			03/20/18 12:07	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/20/18 12:07	1
1,2-Dichlorobenzene	0.00014	U	0.0010	0.00014	mg/Kg			03/20/18 12:07	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/20/18 12:07	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/20/18 12:07	1
1,3,5-Trimethylbenzene	0.00012	U	0.0010	0.00012	mg/Kg			03/20/18 12:07	1
1,3-Dichlorobenzene	0.00016	U	0.0010	0.00016	mg/Kg			03/20/18 12:07	1
1,4-Dichlorobenzene	0.00010	U	0.0010	0.00010	mg/Kg			03/20/18 12:07	1
2-Butanone (MEK)	0.0011	U	0.0050	0.0011	mg/Kg			03/20/18 12:07	1
2-Hexanone	0.00078	U	0.0050	0.00078	mg/Kg			03/20/18 12:07	1
4-Methyl-2-pentanone (MIBK)	0.00066	U	0.0050	0.00066	mg/Kg			03/20/18 12:07	1
Acetone	0.00648		0.0050	0.0038	mg/Kg			03/20/18 12:07	1
Acrolein	0.028	U	0.10	0.028	mg/Kg			03/20/18 12:07	1
Acrylonitrile	0.0016	U	0.010	0.0016	mg/Kg			03/20/18 12:07	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/20/18 12:07	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/20/18 12:07	1
Bromomethane	0.00047	U	0.0010	0.00047	mg/Kg			03/20/18 12:07	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/20/18 12:07	1
Carbon tetrachloride	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/20/18 12:07	1
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg			03/20/18 12:07	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/20/18 12:07	1
Chloroform	0.00032	U	0.0010	0.00032	mg/Kg			03/20/18 12:07	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/20/18 12:07	1
cis-1,2-Dichloroethene	0.00015	U	0.0010	0.00015	mg/Kg			03/20/18 12:07	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/20/18 12:07	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/20/18 12:07	1
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg			03/20/18 12:07	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/20/18 12:07	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/20/18 12:07	1
Ethylene Dibromide	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1
Isopropylbenzene	0.00013	U	0.0010	0.00013	mg/Kg			03/20/18 12:07	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/20/18 12:07	1
Methyl tert-butyl ether	0.00013	U	0.0010	0.00013	mg/Kg			03/20/18 12:07	1
Methylcyclohexane	0.00016	U	0.0010	0.00016	mg/Kg			03/20/18 12:07	1
Methylene Chloride	0.000272	J	0.0010	0.00016	mg/Kg			03/20/18 12:07	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/20/18 12:07	1
n-Butylbenzene	0.00014	U	0.0010	0.00014	mg/Kg			03/20/18 12:07	1
N-Propylbenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/20/18 12:07	1

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

Lab Sample ID: MB 460-504711/8
Matrix: Solid
Analysis Batch: 504711

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.000095	U	0.0010	0.000095	mg/Kg			03/20/18 12:07	1
sec-Butylbenzene	0.000088	U	0.0010	0.000088	mg/Kg			03/20/18 12:07	1
Styrene	0.00012	U	0.0010	0.00012	mg/Kg			03/20/18 12:07	1
tert-Butylbenzene	0.00012	U	0.0010	0.00012	mg/Kg			03/20/18 12:07	1
Tetrachloroethene	0.00014	U	0.0010	0.00014	mg/Kg			03/20/18 12:07	1
Toluene	0.00063	U	0.0010	0.00063	mg/Kg			03/20/18 12:07	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/20/18 12:07	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/20/18 12:07	1
Trichloroethene	0.00014	U	0.0010	0.00014	mg/Kg			03/20/18 12:07	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/20/18 12:07	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/20/18 12:07	1
Xylenes, Total	0.00025	U	0.0020	0.00025	mg/Kg			03/20/18 12:07	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*					*03/20/18 12:07*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 135*		*03/20/18 12:07*	*1*
4-Bromofluorobenzene	*103*		*67 - 126*		*03/20/18 12:07*	*1*
Dibromofluoromethane (Surr)	*106*		*61 - 149*		*03/20/18 12:07*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*		*03/20/18 12:07*	*1*

Lab Sample ID: LCS 460-504711/4
Matrix: Solid
Analysis Batch: 504711

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0200	0.0197		mg/Kg		99	80 - 125
1,1,2,2-Tetrachloroethane	0.0200	0.0213		mg/Kg		107	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184		mg/Kg		92	78 - 132
1,1,2-Trichloroethane	0.0200	0.0210		mg/Kg		105	76 - 124
1,1-Dichloroethane	0.0200	0.0246		mg/Kg		123	80 - 124
1,1-Dichloroethene	0.0200	0.0190		mg/Kg		95	79 - 132
1,2,3-Trichlorobenzene	0.0200	0.0207		mg/Kg		104	75 - 123
1,2,4-Trichlorobenzene	0.0200	0.0212		mg/Kg		106	74 - 124
1,2,4-Trimethylbenzene	0.0200	0.0195		mg/Kg		98	77 - 123
1,2-Dibromo-3-Chloropropane	0.0200	0.0172		mg/Kg		86	65 - 129
1,2-Dichlorobenzene	0.0200	0.0195		mg/Kg		98	80 - 121
1,2-Dichloroethane	0.0200	0.0211		mg/Kg		106	68 - 120
1,2-Dichloropropane	0.0200	0.0237		mg/Kg		119	77 - 124
1,3,5-Trimethylbenzene	0.0200	0.0191		mg/Kg		96	76 - 126
1,3-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	79 - 124
1,4-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	79 - 121
2-Butanone (MEK)	0.100	0.0848		mg/Kg		85	61 - 140
2-Hexanone	0.100	0.109		mg/Kg		109	78 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.111		mg/Kg		111	80 - 120
Acetone	0.100	0.100		mg/Kg		100	75 - 120

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

Lab Sample ID: LCS 460-504711/4
Matrix: Solid
Analysis Batch: 504711

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	0.300	0.350		mg/Kg		117	11 - 143
Acrylonitrile	0.200	0.252	*	mg/Kg		126	77 - 120
Benzene	0.0200	0.0225		mg/Kg		112	75 - 127
Bromoform	0.0200	0.0174		mg/Kg		87	19 - 150
Bromomethane	0.0200	0.0190		mg/Kg		95	59 - 136
Carbon disulfide	0.0200	0.0222		mg/Kg		111	74 - 130
Carbon tetrachloride	0.0200	0.0183		mg/Kg		92	77 - 138
Chlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0196		mg/Kg		98	80 - 125
Chlorodibromomethane	0.0200	0.0180		mg/Kg		90	67 - 143
Chloroethane	0.0200	0.0195		mg/Kg		97	50 - 139
Chloroform	0.0200	0.0220		mg/Kg		110	80 - 122
Chloromethane	0.0200	0.0217		mg/Kg		108	66 - 128
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0217		mg/Kg		108	75 - 124
Cyclohexane	0.0200	0.0191		mg/Kg		95	67 - 135
Dichlorobromomethane	0.0200	0.0207		mg/Kg		103	76 - 129
Dichlorodifluoromethane	0.0200	0.0155		mg/Kg		78	72 - 127
Ethylbenzene	0.0200	0.0189		mg/Kg		95	79 - 124
Ethylene Dibromide	0.0200	0.0195		mg/Kg		97	80 - 122
Isopropylbenzene	0.0200	0.0187		mg/Kg		93	80 - 125
Methyl acetate	0.100	0.132	*	mg/Kg		132	73 - 123
Methyl tert-butyl ether	0.0200	0.0224		mg/Kg		112	80 - 120
Methylcyclohexane	0.0200	0.0191		mg/Kg		96	71 - 137
Methylene Chloride	0.0200	0.0219		mg/Kg		110	79 - 128
m-Xylene & p-Xylene	0.0200	0.0192		mg/Kg		96	79 - 121
n-Butylbenzene	0.0200	0.0200		mg/Kg		100	75 - 131
N-Propylbenzene	0.0200	0.0205		mg/Kg		103	75 - 132
o-Xylene	0.0200	0.0199		mg/Kg		99	79 - 123
sec-Butylbenzene	0.0200	0.0181		mg/Kg		91	78 - 130
Styrene	0.0200	0.0202		mg/Kg		101	78 - 123
tert-Butylbenzene	0.0200	0.0170		mg/Kg		85	77 - 123
Tetrachloroethene	0.0200	0.0180		mg/Kg		90	73 - 130
Toluene	0.0200	0.0202		mg/Kg		101	75 - 122
trans-1,2-Dichloroethene	0.0200	0.0209		mg/Kg		104	80 - 129
trans-1,3-Dichloropropene	0.0200	0.0213		mg/Kg		107	72 - 121
Trichloroethene	0.0200	0.0199		mg/Kg		99	79 - 122
Trichlorofluoromethane	0.0200	0.0156		mg/Kg		78	68 - 136
Vinyl chloride	0.0200	0.0190		mg/Kg		95	70 - 134
Xylenes, Total	0.0400	0.0391		mg/Kg		98	79 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*78 - 135*
4-Bromofluorobenzene	*105*		*67 - 126*
Dibromofluoromethane (Surr)	*109*		*61 - 149*
Toluene-d8 (Surr)	*107*		*73 - 121*

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

Lab Sample ID: LCSD 460-504711/5
Matrix: Solid
Analysis Batch: 504711

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0196		mg/Kg		98	80 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.0217		mg/Kg		108	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184		mg/Kg		92	78 - 132	0	30
1,1,2-Trichloroethane	0.0200	0.0207		mg/Kg		103	76 - 124	2	30
1,1-Dichloroethane	0.0200	0.0234		mg/Kg		117	80 - 124	5	30
1,1-Dichloroethene	0.0200	0.0190		mg/Kg		95	79 - 132	0	30
1,2,3-Trichlorobenzene	0.0200	0.0200		mg/Kg		100	75 - 123	4	30
1,2,4-Trichlorobenzene	0.0200	0.0204		mg/Kg		102	74 - 124	4	30
1,2,4-Trimethylbenzene	0.0200	0.0202		mg/Kg		101	77 - 123	4	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0199		mg/Kg		99	65 - 129	14	30
1,2-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 121	1	30
1,2-Dichloroethane	0.0200	0.0207		mg/Kg		104	68 - 120	2	30
1,2-Dichloropropane	0.0200	0.0233		mg/Kg		116	77 - 124	2	30
1,3,5-Trimethylbenzene	0.0200	0.0194		mg/Kg		97	76 - 126	1	30
1,3-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	79 - 124	2	30
1,4-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	79 - 121	1	30
2-Butanone (MEK)	0.100	0.0835		mg/Kg		84	61 - 140	2	30
2-Hexanone	0.100	0.107		mg/Kg		107	78 - 120	2	30
4-Methyl-2-pentanone (MIBK)	0.100	0.109		mg/Kg		109	80 - 120	3	30
Acetone	0.100	0.0945		mg/Kg		94	75 - 120	6	30
Acrolein	0.300	0.322		mg/Kg		107	11 - 143	8	30
Acrylonitrile	0.200	0.254	*	mg/Kg		127	77 - 120	1	30
Benzene	0.0200	0.0225		mg/Kg		113	75 - 127	0	30
Bromoform	0.0200	0.0175		mg/Kg		87	19 - 150	0	30
Bromomethane	0.0200	0.0188		mg/Kg		94	59 - 136	1	30
Carbon disulfide	0.0200	0.0214		mg/Kg		107	74 - 130	4	30
Carbon tetrachloride	0.0200	0.0184		mg/Kg		92	77 - 138	0	30
Chlorobenzene	0.0200	0.0187		mg/Kg		93	80 - 120	3	30
Chlorobromomethane	0.0200	0.0191		mg/Kg		95	80 - 125	3	30
Chlorodibromomethane	0.0200	0.0178		mg/Kg		89	67 - 143	1	30
Chloroethane	0.0200	0.0194		mg/Kg		97	50 - 139	0	30
Chloroform	0.0200	0.0214		mg/Kg		107	80 - 122	2	30
Chloromethane	0.0200	0.0221		mg/Kg		110	66 - 128	2	30
cis-1,2-Dichloroethene	0.0200	0.0203		mg/Kg		102	80 - 123	5	30
cis-1,3-Dichloropropene	0.0200	0.0216		mg/Kg		108	75 - 124	0	30
Cyclohexane	0.0200	0.0195		mg/Kg		97	67 - 135	2	30
Dichlorobromomethane	0.0200	0.0201		mg/Kg		101	76 - 129	3	30
Dichlorodifluoromethane	0.0200	0.0158		mg/Kg		79	72 - 127	2	30
Ethylbenzene	0.0200	0.0195		mg/Kg		97	79 - 124	3	30
Ethylene Dibromide	0.0200	0.0199		mg/Kg		100	80 - 122	2	30
Isopropylbenzene	0.0200	0.0186		mg/Kg		93	80 - 125	0	30
Methyl acetate	0.100	0.139	*	mg/Kg		139	73 - 123	5	30
Methyl tert-butyl ether	0.0200	0.0217		mg/Kg		108	80 - 120	3	30
Methylcyclohexane	0.0200	0.0191		mg/Kg		96	71 - 137	0	30
Methylene Chloride	0.0200	0.0209		mg/Kg		104	79 - 128	5	30
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		96	79 - 121	0	30
n-Butylbenzene	0.0200	0.0201		mg/Kg		100	75 - 131	1	30

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

Lab Sample ID: LCSD 460-504711/5
Matrix: Solid
Analysis Batch: 504711

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			0.0200	0.0213		mg/Kg		107	75 - 132	4	30
o-Xylene			0.0200	0.0199		mg/Kg		100	79 - 123	0	30
sec-Butylbenzene			0.0200	0.0189		mg/Kg		94	78 - 130	4	30
Styrene			0.0200	0.0199		mg/Kg		99	78 - 123	2	30
tert-Butylbenzene			0.0200	0.0174		mg/Kg		87	77 - 123	2	30
Tetrachloroethene			0.0200	0.0182		mg/Kg		91	73 - 130	1	30
Toluene			0.0200	0.0202		mg/Kg		101	75 - 122	0	30
trans-1,2-Dichloroethene			0.0200	0.0212		mg/Kg		106	80 - 129	1	30
trans-1,3-Dichloropropene			0.0200	0.0204		mg/Kg		102	72 - 121	4	30
Trichloroethene			0.0200	0.0195		mg/Kg		98	79 - 122	2	30
Trichlorofluoromethane			0.0200	0.0158		mg/Kg		79	68 - 136	1	30
Vinyl chloride			0.0200	0.0193		mg/Kg		97	70 - 134	2	30
Xylenes, Total			0.0400	0.0390		mg/Kg		98	79 - 122	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*78 - 135*
4-Bromofluorobenzene	*105*		*67 - 126*
Dibromofluoromethane (Surr)	*107*		*61 - 149*
Toluene-d8 (Surr)	*105*		*73 - 121*

Lab Sample ID: MB 460-504963/7
Matrix: Solid
Analysis Batch: 504963

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			03/21/18 10:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/21/18 10:58	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/21/18 10:58	1
2-Butanone (MEK)	2.2	U	5.0	2.2	ug/L			03/21/18 10:58	1
Benzene	0.19	U	1.0	0.19	ug/L			03/21/18 10:58	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/21/18 10:58	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			03/21/18 10:58	1
Chloroform	0.22	U	1.0	0.22	ug/L			03/21/18 10:58	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			03/21/18 10:58	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			03/21/18 10:58	1
Vinyl chloride	0.20	U	1.0	0.20	ug/L			03/21/18 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*03/21/18 10:58*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*03/21/18 10:58*	*1*
Dibromofluoromethane (Surr)	*120*		*72 - 131*		*03/21/18 10:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/21/18 10:58*	*1*

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

Lab Sample ID: LCS 460-504963/3
Matrix: Solid
Analysis Batch: 504963

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			20.0	21.4		ug/L		107	74 - 123		
1,2-Dichloroethane			20.0	20.4		ug/L		102	76 - 121		
1,4-Dichlorobenzene			20.0	19.3		ug/L		97	80 - 120		
2-Butanone (MEK)			100	111		ug/L		111	64 - 120		
Benzene			20.0	19.1		ug/L		96	77 - 121		
Carbon tetrachloride			20.0	21.1		ug/L		106	70 - 132		
Chlorobenzene			20.0	20.5		ug/L		103	80 - 120		
Chloroform			20.0	22.3		ug/L		111	80 - 120		
Tetrachloroethene			20.0	19.9		ug/L		99	78 - 122		
Trichloroethene			20.0	23.4		ug/L		117	77 - 120		
Vinyl chloride			20.0	21.6		ug/L		108	62 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 132*
4-Bromofluorobenzene	*100*		*77 - 124*
Dibromofluoromethane (Surr)	*105*		*72 - 131*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 460-504963/4
Matrix: Solid
Analysis Batch: 504963

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			20.0	21.4		ug/L		107	74 - 123	0	30
1,2-Dichloroethane			20.0	20.7		ug/L		103	76 - 121	1	30
1,4-Dichlorobenzene			20.0	18.6		ug/L		93	80 - 120	4	30
2-Butanone (MEK)			100	111		ug/L		111	64 - 120	0	30
Benzene			20.0	18.5		ug/L		92	77 - 121	3	30
Carbon tetrachloride			20.0	20.4		ug/L		102	70 - 132	3	30
Chlorobenzene			20.0	20.2		ug/L		101	80 - 120	2	30
Chloroform			20.0	22.1		ug/L		111	80 - 120	1	30
Tetrachloroethene			20.0	19.2		ug/L		96	78 - 122	3	30
Trichloroethene			20.0	23.4		ug/L		117	77 - 120	0	30
Vinyl chloride			20.0	21.6		ug/L		108	62 - 138	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Dibromofluoromethane (Surr)	*108*		*72 - 131*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: MB 460-505144/7
Matrix: Water
Analysis Batch: 505144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			03/22/18 09:18	1

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

Lab Sample ID: MB 460-505144/7
Matrix: Water
Analysis Batch: 505144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			03/22/18 09:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34	ug/L			03/22/18 09:18	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			03/22/18 09:18	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			03/22/18 09:18	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			03/22/18 09:18	1
1,2,3-Trichlorobenzene	0.35	U	1.0	0.35	ug/L			03/22/18 09:18	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			03/22/18 09:18	1
1,2,4-Trimethylbenzene	0.23	U	1.0	0.23	ug/L			03/22/18 09:18	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			03/22/18 09:18	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/22/18 09:18	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			03/22/18 09:18	1
1,3,5-Trimethylbenzene	0.25	U	1.0	0.25	ug/L			03/22/18 09:18	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 09:18	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 09:18	1
2-Butanone (MEK)	2.2	U	5.0	2.2	ug/L			03/22/18 09:18	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			03/22/18 09:18	1
4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63	ug/L			03/22/18 09:18	1
Acetone	1.1	U	5.0	1.1	ug/L			03/22/18 09:18	1
Acrolein	0.88	U	4.0	0.88	ug/L			03/22/18 09:18	1
Acrylonitrile	1.0	U	2.0	1.0	ug/L			03/22/18 09:18	1
Benzene	0.090	U	1.0	0.090	ug/L			03/22/18 09:18	1
Bromoform	0.18	U	1.0	0.18	ug/L			03/22/18 09:18	1
Bromomethane	0.18	U	1.0	0.18	ug/L			03/22/18 09:18	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/22/18 09:18	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			03/22/18 09:18	1
Chlorobromomethane	0.30	U	1.0	0.30	ug/L			03/22/18 09:18	1
Chlorodibromomethane	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
Chloroethane	0.37	U	1.0	0.37	ug/L			03/22/18 09:18	1
Chloroform	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
Chloromethane	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			03/22/18 09:18	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			03/22/18 09:18	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			03/22/18 09:18	1
Dichlorobromomethane	0.15	U	1.0	0.15	ug/L			03/22/18 09:18	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			03/22/18 09:18	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			03/22/18 09:18	1
Ethylene Dibromide	0.19	U	1.0	0.19	ug/L			03/22/18 09:18	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			03/22/18 09:18	1
Methyl acetate	0.58	U	5.0	0.58	ug/L			03/22/18 09:18	1
Methyl tert-butyl ether	0.13	U	1.0	0.13	ug/L			03/22/18 09:18	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
Methylene Chloride	0.21	U	1.0	0.21	ug/L			03/22/18 09:18	1
m-Xylene & p-Xylene	0.28	U	1.0	0.28	ug/L			03/22/18 09:18	1
n-Butylbenzene	0.27	U	1.0	0.27	ug/L			03/22/18 09:18	1
N-Propylbenzene	0.29	U	1.0	0.29	ug/L			03/22/18 09:18	1
o-Xylene	0.32	U	1.0	0.32	ug/L			03/22/18 09:18	1

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

Lab Sample ID: MB 460-505144/7
Matrix: Water
Analysis Batch: 505144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.31	U	1.0	0.31	ug/L			03/22/18 09:18	1
Styrene	0.17	U	1.0	0.17	ug/L			03/22/18 09:18	1
tert-Butylbenzene	0.28	U	1.0	0.28	ug/L			03/22/18 09:18	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			03/22/18 09:18	1
Toluene	0.25	U	1.0	0.25	ug/L			03/22/18 09:18	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			03/22/18 09:18	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			03/22/18 09:18	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			03/22/18 09:18	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			03/22/18 09:18	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			03/22/18 09:18	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			03/22/18 09:18	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/22/18 09:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*74 - 132*		*03/22/18 09:18*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*03/22/18 09:18*	*1*
Dibromofluoromethane (Surr)	*113*		*72 - 131*		*03/22/18 09:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/22/18 09:18*	*1*

Lab Sample ID: LCS 460-505144/3
Matrix: Water
Analysis Batch: 505144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	22.1		ug/L		111	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		90	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	21.3		ug/L		106	77 - 123
1,1-Dichloroethene	20.0	21.5		ug/L		107	74 - 123
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	78 - 131
1,2,4-Trichlorobenzene	20.0	19.8		ug/L		99	80 - 124
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	78 - 122
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	55 - 134
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	21.3		ug/L		106	76 - 121
1,2-Dichloropropane	20.0	21.6		ug/L		108	77 - 123
1,3,5-Trimethylbenzene	20.0	19.0		ug/L		95	80 - 120
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
1,4-Dichlorobenzene	20.0	19.1		ug/L		95	80 - 120
2-Butanone (MEK)	100	115		ug/L		115	64 - 120
2-Hexanone	100	110		ug/L		110	71 - 125
4-Methyl-2-pentanone (MIBK)	100	113		ug/L		113	78 - 124
Acetone	100	99.6		ug/L		100	39 - 150
Acrolein	40.0	82.4	*	ug/L		206	10 - 150

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

Lab Sample ID: LCS 460-505144/3
Matrix: Water
Analysis Batch: 505144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrylonitrile	200	194		ug/L		97	68 - 135
Benzene	20.0	18.5		ug/L		92	77 - 121
Bromoform	20.0	19.6		ug/L		98	53 - 120
Bromomethane	20.0	29.8		ug/L		149	10 - 150
Carbon disulfide	20.0	19.9		ug/L		99	69 - 133
Carbon tetrachloride	20.0	21.9		ug/L		110	70 - 132
Chlorobenzene	20.0	20.5		ug/L		103	80 - 120
Chlorobromomethane	20.0	24.1		ug/L		121	77 - 127
Chlorodibromomethane	20.0	19.8		ug/L		99	73 - 120
Chloroethane	20.0	15.2		ug/L		76	52 - 150
Chloroform	20.0	22.7		ug/L		114	80 - 120
Chloromethane	20.0	20.7		ug/L		103	56 - 131
cis-1,2-Dichloroethene	20.0	22.5		ug/L		112	80 - 120
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	77 - 120
Cyclohexane	20.0	17.6		ug/L		88	56 - 150
Dichlorobromomethane	20.0	22.9		ug/L		114	76 - 120
Dichlorodifluoromethane	20.0	16.0		ug/L		80	50 - 131
Ethylbenzene	20.0	20.6		ug/L		103	80 - 120
Ethylene Dibromide	20.0	20.1		ug/L		101	80 - 120
Isopropylbenzene	20.0	20.3		ug/L		102	80 - 123
Methyl acetate	100	92.2		ug/L		92	66 - 144
Methyl tert-butyl ether	20.0	21.3		ug/L		106	79 - 122
Methylcyclohexane	20.0	18.6		ug/L		93	61 - 145
Methylene Chloride	20.0	20.7		ug/L		103	77 - 123
m-Xylene & p-Xylene	20.0	20.2		ug/L		101	80 - 120
n-Butylbenzene	20.0	19.0		ug/L		95	72 - 133
N-Propylbenzene	20.0	18.7		ug/L		93	80 - 123
o-Xylene	20.0	20.7		ug/L		103	80 - 120
sec-Butylbenzene	20.0	19.0		ug/L		95	75 - 128
Styrene	20.0	21.2		ug/L		106	80 - 120
tert-Butylbenzene	20.0	18.9		ug/L		94	79 - 120
Tetrachloroethene	20.0	19.6		ug/L		98	78 - 122
Toluene	20.0	19.3		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	22.4		ug/L		112	79 - 120
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	76 - 120
Trichloroethene	20.0	23.5		ug/L		117	77 - 120
Trichlorofluoromethane	20.0	22.3		ug/L		112	71 - 143
Vinyl chloride	20.0	21.9		ug/L		109	62 - 138
Xylenes, Total	40.0	40.9		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Dibromofluoromethane (Surr)	*109*		*72 - 131*
Toluene-d8 (Surr)	*93*		*80 - 120*

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

Lab Sample ID: LCSD 460-505144/4
Matrix: Water
Analysis Batch: 505144

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	75 - 125	2	30
1,1,2,2-Tetrachloroethane	20.0	17.7		ug/L		88	74 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		95	59 - 150	2	30
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	78 - 120	1	30
1,1-Dichloroethane	20.0	21.3		ug/L		107	77 - 123	0	30
1,1-Dichloroethene	20.0	20.9		ug/L		105	74 - 123	3	30
1,2,3-Trichlorobenzene	20.0	19.9		ug/L		99	78 - 131	2	30
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		97	80 - 124	1	30
1,2,4-Trimethylbenzene	20.0	18.7		ug/L		94	78 - 122	0	30
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	55 - 134	10	30
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 120	1	30
1,2-Dichloroethane	20.0	21.4		ug/L		107	76 - 121	0	30
1,2-Dichloropropane	20.0	21.9		ug/L		110	77 - 123	1	30
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		94	80 - 120	1	30
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120	1	30
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 120	1	30
2-Butanone (MEK)	100	114		ug/L		114	64 - 120	1	30
2-Hexanone	100	111		ug/L		111	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	78 - 124	1	30
Acetone	100	99.3		ug/L		99	39 - 150	0	30
Acrolein	40.0	82.9	*	ug/L		207	10 - 150	1	30
Acrylonitrile	200	197		ug/L		99	68 - 135	2	30
Benzene	20.0	18.4		ug/L		92	77 - 121	1	30
Bromoform	20.0	19.0		ug/L		95	53 - 120	3	30
Bromomethane	20.0	30.2	*	ug/L		151	10 - 150	2	30
Carbon disulfide	20.0	19.7		ug/L		99	69 - 133	1	30
Carbon tetrachloride	20.0	20.6		ug/L		103	70 - 132	6	30
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120	1	30
Chlorobromomethane	20.0	24.5		ug/L		123	77 - 127	2	30
Chlorodibromomethane	20.0	19.6		ug/L		98	73 - 120	1	30
Chloroethane	20.0	16.4		ug/L		82	52 - 150	8	30
Chloroform	20.0	22.5		ug/L		113	80 - 120	1	30
Chloromethane	20.0	19.7		ug/L		98	56 - 131	5	30
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	80 - 120	1	30
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	77 - 120	3	30
Cyclohexane	20.0	17.4		ug/L		87	56 - 150	1	30
Dichlorobromomethane	20.0	22.7		ug/L		114	76 - 120	1	30
Dichlorodifluoromethane	20.0	15.3		ug/L		77	50 - 131	4	30
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120	3	30
Ethylene Dibromide	20.0	20.4		ug/L		102	80 - 120	1	30
Isopropylbenzene	20.0	19.8		ug/L		99	80 - 123	2	30
Methyl acetate	100	92.5		ug/L		92	66 - 144	0	30
Methyl tert-butyl ether	20.0	21.5		ug/L		107	79 - 122	1	30
Methylcyclohexane	20.0	18.4		ug/L		92	61 - 145	1	30
Methylene Chloride	20.0	21.1		ug/L		106	77 - 123	2	30
m-Xylene & p-Xylene	20.0	20.0		ug/L		100	80 - 120	1	30
n-Butylbenzene	20.0	18.5		ug/L		92	72 - 133	2	30

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

Lab Sample ID: LCSD 460-505144/4
Matrix: Water
Analysis Batch: 505144

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			20.0	18.6		ug/L		93	80 - 123	0	30
o-Xylene			20.0	20.2		ug/L		101	80 - 120	2	30
sec-Butylbenzene			20.0	18.8		ug/L		94	75 - 128	1	30
Styrene			20.0	20.9		ug/L		104	80 - 120	2	30
tert-Butylbenzene			20.0	18.5		ug/L		92	79 - 120	2	30
Tetrachloroethene			20.0	19.3		ug/L		97	78 - 122	2	30
Toluene			20.0	19.1		ug/L		95	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	22.2		ug/L		111	79 - 120	1	30
trans-1,3-Dichloropropene			20.0	19.3		ug/L		96	76 - 120	2	30
Trichloroethene			20.0	23.3		ug/L		117	77 - 120	1	30
Trichlorofluoromethane			20.0	21.6		ug/L		108	71 - 143	3	30
Vinyl chloride			20.0	21.1		ug/L		105	62 - 138	4	30
Xylenes, Total			40.0	40.3		ug/L		101	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Dibromofluoromethane (Surr)	*109*		*72 - 131*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: MB 460-505151/7
Matrix: Solid
Analysis Batch: 505151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			03/22/18 09:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			03/22/18 09:16	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			03/22/18 09:16	1
2-Butanone (MEK)	2.2	U	5.0	2.2	ug/L			03/22/18 09:16	1
Benzene	0.19	U	1.0	0.19	ug/L			03/22/18 09:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/22/18 09:16	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			03/22/18 09:16	1
Chloroform	0.22	U	1.0	0.22	ug/L			03/22/18 09:16	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			03/22/18 09:16	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			03/22/18 09:16	1
Vinyl chloride	0.20	U	1.0	0.20	ug/L			03/22/18 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*74 - 132*		*03/22/18 09:16*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*03/22/18 09:16*	*1*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*03/22/18 09:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/18 09:16*	*1*

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

Lab Sample ID: LCS 460-505151/3
Matrix: Solid
Analysis Batch: 505151

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			20.0	20.4		ug/L		102	74 - 123		
1,2-Dichloroethane			20.0	19.1		ug/L		96	76 - 121		
1,4-Dichlorobenzene			20.0	23.1		ug/L		116	80 - 120		
2-Butanone (MEK)			100	99.6		ug/L		100	64 - 120		
Benzene			20.0	21.9		ug/L		109	77 - 121		
Carbon tetrachloride			20.0	19.1		ug/L		95	70 - 132		
Chlorobenzene			20.0	22.1		ug/L		111	80 - 120		
Chloroform			20.0	19.7		ug/L		99	80 - 120		
Tetrachloroethene			20.0	22.6		ug/L		113	78 - 122		
Trichloroethene			20.0	20.0		ug/L		100	77 - 120		
Vinyl chloride			20.0	20.5		ug/L		102	62 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Dibromofluoromethane (Surr)	*93*		*72 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 460-505151/4
Matrix: Solid
Analysis Batch: 505151

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			20.0	21.2		ug/L		106	74 - 123	4	30
1,2-Dichloroethane			20.0	19.6		ug/L		98	76 - 121	3	30
1,4-Dichlorobenzene			20.0	23.8		ug/L		119	80 - 120	3	30
2-Butanone (MEK)			100	104		ug/L		104	64 - 120	5	30
Benzene			20.0	22.9		ug/L		114	77 - 121	5	30
Carbon tetrachloride			20.0	20.3		ug/L		101	70 - 132	6	30
Chlorobenzene			20.0	23.0		ug/L		115	80 - 120	4	30
Chloroform			20.0	20.6		ug/L		103	80 - 120	4	30
Tetrachloroethene			20.0	23.6		ug/L		118	78 - 122	4	30
Trichloroethene			20.0	21.0		ug/L		105	77 - 120	5	30
Vinyl chloride			20.0	21.7		ug/L		108	62 - 138	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Dibromofluoromethane (Surr)	*93*		*72 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LB 460-504821/1-A
Matrix: Solid
Analysis Batch: 504963

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	3.4	U	10	3.4	ug/L			03/21/18 11:48	10

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

Lab Sample ID: LB 460-504821/1-A
Matrix: Solid
Analysis Batch: 504963

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			03/21/18 11:48	10
1,4-Dichlorobenzene	3.3	U	10	3.3	ug/L			03/21/18 11:48	10
2-Butanone (MEK)	22	U	50	22	ug/L			03/21/18 11:48	10
Benzene	1.9	U	10	1.9	ug/L			03/21/18 11:48	10
Carbon tetrachloride	3.3	U	10	3.3	ug/L			03/21/18 11:48	10
Chlorobenzene	2.4	U	10	2.4	ug/L			03/21/18 11:48	10
Chloroform	2.2	U	10	2.2	ug/L			03/21/18 11:48	10
Tetrachloroethene	3.6	U	10	3.6	ug/L			03/21/18 11:48	10
Trichloroethene	2.2	U	10	2.2	ug/L			03/21/18 11:48	10
Vinyl chloride	2.0	U	10	2.0	ug/L			03/21/18 11:48	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*		*03/21/18 11:48*	*10*
4-Bromofluorobenzene	*99*		*77 - 124*		*03/21/18 11:48*	*10*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*03/21/18 11:48*	*10*
Toluene-d8 (Surr)	*95*		*80 - 120*		*03/21/18 11:48*	*10*

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

Lab Sample ID: MB 460-504508/1-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.63	U	10	0.63	ug/L		03/19/18 09:12	03/19/18 21:27	1
1,2,4,5-Tetrachlorobenzene	0.43	U	10	0.43	ug/L		03/19/18 09:12	03/19/18 21:27	1
1,4-Dioxane	3.1	U	10	3.1	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4,5-Trichlorophenol	0.49	U	10	0.49	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4,6-Trichlorophenol	0.53	U	10	0.53	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4-Dichlorophenol	0.63	U	10	0.63	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4-Dimethylphenol	0.91	U	10	0.91	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4-Dinitrophenol	2.4	U	20	2.4	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
2,6-Dinitrotoluene	0.88	U	2.0	0.88	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Chloronaphthalene	0.61	U	10	0.61	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Chlorophenol	0.74	U	10	0.74	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Methylnaphthalene	0.88	U	10	0.88	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Methylphenol	1.3	U	10	1.3	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Nitroaniline	0.65	U	10	0.65	ug/L		03/19/18 09:12	03/19/18 21:27	1
2-Nitrophenol	0.59	U	10	0.59	ug/L		03/19/18 09:12	03/19/18 21:27	1
3 & 4 Methylphenol	0.88	U	10	0.88	ug/L		03/19/18 09:12	03/19/18 21:27	1
3,3'-Dichlorobenzidine	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
3-Nitroaniline	0.82	U	10	0.82	ug/L		03/19/18 09:12	03/19/18 21:27	1
4,6-Dinitro-2-methylphenol	2.0	U	20	2.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Bromophenyl phenyl ether	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Chloro-3-methylphenol	0.76	U	10	0.76	ug/L		03/19/18 09:12	03/19/18 21:27	1

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

Lab Sample ID: MB 460-504508/1-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	0.73	U	10	0.73	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Chlorophenyl phenyl ether	0.96	U	10	0.96	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Methylphenol	0.87	U	10	0.87	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Nitroaniline	0.48	U	10	0.48	ug/L		03/19/18 09:12	03/19/18 21:27	1
4-Nitrophenol	4.7	U	20	4.7	ug/L		03/19/18 09:12	03/19/18 21:27	1
Acenaphthene	0.88	U	10	0.88	ug/L		03/19/18 09:12	03/19/18 21:27	1
Acenaphthylene	0.65	U	10	0.65	ug/L		03/19/18 09:12	03/19/18 21:27	1
Acetophenone	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
Anthracene	0.57	U	10	0.57	ug/L		03/19/18 09:12	03/19/18 21:27	1
Atrazine	0.77	U	2.0	0.77	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzaldehyde	0.86	U	10	0.86	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzo[a]anthracene	0.55	U	1.0	0.55	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzo[a]pyrene	0.16	U	1.0	0.16	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzo[b]fluoranthene	0.44	U	2.0	0.44	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzo[g,h,i]perylene	0.75	U	10	0.75	ug/L		03/19/18 09:12	03/19/18 21:27	1
Benzo[k]fluoranthene	0.18	U	1.0	0.18	ug/L		03/19/18 09:12	03/19/18 21:27	1
Bis(2-chloroethoxy)methane	0.69	U	10	0.69	ug/L		03/19/18 09:12	03/19/18 21:27	1
Bis(2-chloroethyl)ether	0.12	U	1.0	0.12	ug/L		03/19/18 09:12	03/19/18 21:27	1
Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72	ug/L		03/19/18 09:12	03/19/18 21:27	1
Butyl benzyl phthalate	0.60	U	10	0.60	ug/L		03/19/18 09:12	03/19/18 21:27	1
Caprolactam	1.1	U	10	1.1	ug/L		03/19/18 09:12	03/19/18 21:27	1
Carbazole	0.85	U	10	0.85	ug/L		03/19/18 09:12	03/19/18 21:27	1
Chrysene	0.67	U	2.0	0.67	ug/L		03/19/18 09:12	03/19/18 21:27	1
Dibenz(a,h)anthracene	0.090	U	1.0	0.090	ug/L		03/19/18 09:12	03/19/18 21:27	1
Dibenzofuran	0.85	U	10	0.85	ug/L		03/19/18 09:12	03/19/18 21:27	1
Diethyl phthalate	1.0	U	10	1.0	ug/L		03/19/18 09:12	03/19/18 21:27	1
Dimethyl phthalate	0.98	U	10	0.98	ug/L		03/19/18 09:12	03/19/18 21:27	1
Di-n-butyl phthalate	0.82	U	10	0.82	ug/L		03/19/18 09:12	03/19/18 21:27	1
Di-n-octyl phthalate	0.69	U	10	0.69	ug/L		03/19/18 09:12	03/19/18 21:27	1
Fluoranthene	0.72	U	10	0.72	ug/L		03/19/18 09:12	03/19/18 21:27	1
Fluorene	0.80	U	10	0.80	ug/L		03/19/18 09:12	03/19/18 21:27	1
Hexachlorobenzene	0.47	U	1.0	0.47	ug/L		03/19/18 09:12	03/19/18 21:27	1
Hexachlorobutadiene	0.76	U	1.0	0.76	ug/L		03/19/18 09:12	03/19/18 21:27	1
Hexachlorocyclopentadiene	0.61	U	10	0.61	ug/L		03/19/18 09:12	03/19/18 21:27	1
Hexachloroethane	0.090	U	2.0	0.090	ug/L		03/19/18 09:12	03/19/18 21:27	1
Indeno[1,2,3-cd]pyrene	0.21	U	2.0	0.21	ug/L		03/19/18 09:12	03/19/18 21:27	1
Isophorone	0.67	U	10	0.67	ug/L		03/19/18 09:12	03/19/18 21:27	1
Naphthalene	0.80	U	10	0.80	ug/L		03/19/18 09:12	03/19/18 21:27	1
Nitrobenzene	0.49	U	1.0	0.49	ug/L		03/19/18 09:12	03/19/18 21:27	1
N-Nitrosodi-n-propylamine	0.83	U	1.0	0.83	ug/L		03/19/18 09:12	03/19/18 21:27	1
N-Nitrosodiphenylamine	0.74	U	10	0.74	ug/L		03/19/18 09:12	03/19/18 21:27	1
Pentachlorophenol	2.2	U	20	2.2	ug/L		03/19/18 09:12	03/19/18 21:27	1
Phenanthrene	0.65	U	10	0.65	ug/L		03/19/18 09:12	03/19/18 21:27	1
Phenol	0.41	U	10	0.41	ug/L		03/19/18 09:12	03/19/18 21:27	1
Pyrene	0.83	U	10	0.83	ug/L		03/19/18 09:12	03/19/18 21:27	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7.86*	*J*	*ug/L*		*7.75*		*03/19/18 09:12*	*03/19/18 21:27*	*1*

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

Lab Sample ID: MB 460-504508/1-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504508

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tetratetracontane	6.90	J N	ug/L		10.94	7098-22-8	03/19/18 09:12	03/19/18 21:27	1
Unknown	7.19	J	ug/L		13.15		03/19/18 09:12	03/19/18 21:27	1
Unknown	7.51	J	ug/L		14.67		03/19/18 09:12	03/19/18 21:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		26 - 139	03/19/18 09:12	03/19/18 21:27	1
2-Fluorobiphenyl	92		45 - 107	03/19/18 09:12	03/19/18 21:27	1
2-Fluorophenol (Surr)	45		25 - 58	03/19/18 09:12	03/19/18 21:27	1
Nitrobenzene-d5 (Surr)	95		51 - 108	03/19/18 09:12	03/19/18 21:27	1
Phenol-d5 (Surr)	29		14 - 39	03/19/18 09:12	03/19/18 21:27	1
Terphenyl-d14 (Surr)	108		40 - 148	03/19/18 09:12	03/19/18 21:27	1

Lab Sample ID: LCS 460-504508/2-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	80.0	65.3		ug/L		82	54 - 108
1,2,4,5-Tetrachlorobenzene	80.0	62.2		ug/L		78	46 - 105
1,4-Dioxane	80.0	31.3		ug/L		39	25 - 66
2,2'-oxybis[1-chloropropane]	80.0	66.2		ug/L		83	50 - 108
2,3,4,6-Tetrachlorophenol	80.0	86.6		ug/L		108	57 - 122
2,4,5-Trichlorophenol	80.0	77.1		ug/L		96	59 - 117
2,4,6-Trichlorophenol	80.0	74.6		ug/L		93	62 - 120
2,4-Dichlorophenol	80.0	71.1		ug/L		89	62 - 102
2,4-Dimethylphenol	80.0	64.3		ug/L		80	61 - 95
2,4-Dinitrophenol	160	175		ug/L		109	45 - 125
2,4-Dinitrotoluene	80.0	91.9		ug/L		115	70 - 123
2,6-Dinitrotoluene	80.0	85.4		ug/L		107	68 - 121
2-Chloronaphthalene	80.0	64.6		ug/L		81	54 - 105
2-Chlorophenol	80.0	58.2		ug/L		73	54 - 92
2-Methylnaphthalene	80.0	68.0		ug/L		85	47 - 104
2-Methylphenol	80.0	49.3		ug/L		62	43 - 80
2-Nitroaniline	80.0	75.6		ug/L		94	46 - 124
2-Nitrophenol	80.0	72.4		ug/L		91	58 - 109
3 & 4 Methylphenol	80.0	43.8		ug/L		55	34 - 77
3,3'-Dichlorobenzidine	80.0	84.8		ug/L		106	68 - 123
3-Nitroaniline	80.0	65.2		ug/L		82	60 - 117
4,6-Dinitro-2-methylphenol	160	193		ug/L		120	59 - 132
4-Bromophenyl phenyl ether	80.0	73.8		ug/L		92	57 - 126
4-Chloro-3-methylphenol	80.0	69.5		ug/L		87	58 - 98
4-Chloroaniline	80.0	61.9		ug/L		77	51 - 108
4-Chlorophenyl phenyl ether	80.0	77.7		ug/L		97	60 - 114
4-Methylphenol	80.0	44.2		ug/L		55	34 - 78
4-Nitroaniline	80.0	77.7		ug/L		97	48 - 135
4-Nitrophenol	160	51.5		ug/L		32	11 - 47
Acenaphthene	80.0	69.2		ug/L		86	58 - 107

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

Lab Sample ID: LCS 460-504508/2-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	80.0	68.5		ug/L		86	61 - 106
Acetophenone	80.0	74.6		ug/L		93	54 - 115
Anthracene	80.0	78.8		ug/L		99	70 - 118
Benzo[a]anthracene	80.0	83.9		ug/L		105	73 - 119
Benzo[a]pyrene	80.0	90.1		ug/L		113	76 - 125
Benzo[b]fluoranthene	80.0	87.2		ug/L		109	78 - 123
Benzo[g,h,i]perylene	80.0	87.3		ug/L		109	63 - 133
Benzo[k]fluoranthene	80.0	87.1		ug/L		109	71 - 126
Bis(2-chloroethoxy)methane	80.0	72.6		ug/L		91	67 - 104
Bis(2-chloroethyl)ether	80.0	70.7		ug/L		88	63 - 106
Bis(2-ethylhexyl) phthalate	80.0	105		ug/L		131	63 - 135
Butyl benzyl phthalate	80.0	94.0		ug/L		117	66 - 129
Carbazole	80.0	85.8		ug/L		107	68 - 121
Chrysene	80.0	83.3		ug/L		104	73 - 121
Dibenz(a,h)anthracene	80.0	92.3		ug/L		115	59 - 136
Dibenzofuran	80.0	71.7		ug/L		90	67 - 108
Diethyl phthalate	80.0	91.6		ug/L		115	61 - 129
Dimethyl phthalate	80.0	84.4		ug/L		106	65 - 121
Di-n-butyl phthalate	80.0	95.2		ug/L		119	64 - 130
Di-n-octyl phthalate	80.0	102		ug/L		127	64 - 131
Fluoranthene	80.0	91.0		ug/L		114	66 - 123
Fluorene	80.0	75.5		ug/L		94	67 - 112
Hexachlorobenzene	80.0	75.6		ug/L		94	63 - 125
Hexachlorobutadiene	80.0	53.0		ug/L		66	34 - 99
Hexachlorocyclopentadiene	80.0	57.7		ug/L		72	18 - 99
Hexachloroethane	80.0	44.5		ug/L		56	39 - 92
Indeno[1,2,3-cd]pyrene	80.0	95.6		ug/L		119	57 - 142
Isophorone	80.0	77.5		ug/L		97	55 - 105
Naphthalene	80.0	61.5		ug/L		77	51 - 98
Nitrobenzene	80.0	74.7		ug/L		93	56 - 106
N-Nitrosodi-n-propylamine	80.0	75.6		ug/L		95	48 - 118
N-Nitrosodiphenylamine	80.0	74.8		ug/L		93	69 - 118
Pentachlorophenol	160	165		ug/L		103	54 - 120
Phenanthrene	80.0	78.4		ug/L		98	70 - 117
Phenol	80.0	22.6		ug/L		28	16 - 43
Pyrene	80.0	80.2		ug/L		100	63 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*26 - 139*
2-Fluorobiphenyl	*85*		*45 - 107*
2-Fluorophenol (Surr)	*40*		*25 - 58*
Nitrobenzene-d5 (Surr)	*88*		*51 - 108*
Phenol-d5 (Surr)	*26*		*14 - 39*
Terphenyl-d14 (Surr)	*101*		*40 - 148*

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

Lab Sample ID: LCS 460-504508/4-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Atrazine			160	212		ug/L		132	38 - 146		
Benzaldehyde			160	144		ug/L		90	46 - 111		
Caprolactam			160	43.9		ug/L		27	10 - 43		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 139*
2-Fluorobiphenyl	*87*		*45 - 107*
2-Fluorophenol (Surr)	*43*		*25 - 58*
Nitrobenzene-d5 (Surr)	*93*		*51 - 108*
Phenol-d5 (Surr)	*27*		*14 - 39*
Terphenyl-d14 (Surr)	*109*		*40 - 148*

Lab Sample ID: LCSD 460-504508/3-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	65.5		ug/L		82	54 - 108	0	30
1,2,4,5-Tetrachlorobenzene			80.0	63.1		ug/L		79	46 - 105	1	30
1,4-Dioxane			80.0	28.7		ug/L		36	25 - 66	9	30
2,2'-oxybis[1-chloropropane]			80.0	63.5		ug/L		79	50 - 108	4	30
2,3,4,6-Tetrachlorophenol			80.0	87.9		ug/L		110	57 - 122	1	30
2,4,5-Trichlorophenol			80.0	79.0		ug/L		99	59 - 117	2	30
2,4,6-Trichlorophenol			80.0	76.0		ug/L		95	62 - 120	2	30
2,4-Dichlorophenol			80.0	69.9		ug/L		87	62 - 102	2	30
2,4-Dimethylphenol			80.0	65.3		ug/L		82	61 - 95	1	30
2,4-Dinitrophenol			160	175		ug/L		109	45 - 125	0	30
2,4-Dinitrotoluene			80.0	92.3		ug/L		115	70 - 123	0	30
2,6-Dinitrotoluene			80.0	83.9		ug/L		105	68 - 121	2	30
2-Chloronaphthalene			80.0	65.1		ug/L		81	54 - 105	1	30
2-Chlorophenol			80.0	56.8		ug/L		71	54 - 92	2	30
2-Methylnaphthalene			80.0	65.8		ug/L		82	47 - 104	3	30
2-Methylphenol			80.0	48.0		ug/L		60	43 - 80	3	30
2-Nitroaniline			80.0	75.5		ug/L		94	46 - 124	0	30
2-Nitrophenol			80.0	73.5		ug/L		92	58 - 109	1	30
3 & 4 Methylphenol			80.0	41.2		ug/L		52	34 - 77	6	30
3,3'-Dichlorobenzidine			80.0	80.7		ug/L		101	68 - 123	5	30
3-Nitroaniline			80.0	62.9		ug/L		79	60 - 117	4	30
4,6-Dinitro-2-methylphenol			160	191		ug/L		119	59 - 132	1	30
4-Bromophenyl phenyl ether			80.0	74.6		ug/L		93	57 - 126	1	30
4-Chloro-3-methylphenol			80.0	70.1		ug/L		88	58 - 98	1	30
4-Chloroaniline			80.0	59.3		ug/L		74	51 - 108	4	30
4-Chlorophenyl phenyl ether			80.0	77.6		ug/L		97	60 - 114	0	30
4-Methylphenol			80.0	41.4		ug/L		52	34 - 78	6	30
4-Nitroaniline			80.0	75.6		ug/L		94	48 - 135	3	30
4-Nitrophenol			160	48.4		ug/L		30	11 - 47	6	30
Acenaphthene			80.0	68.7		ug/L		86	58 - 107	1	30
Acenaphthylene			80.0	68.7		ug/L		86	61 - 106	0	30

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

Lab Sample ID: LCSD 460-504508/3-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone			80.0	70.9		ug/L		89	54 - 115	5	30
Anthracene			80.0	78.0		ug/L		97	70 - 118	1	30
Benzo[a]anthracene			80.0	83.4		ug/L		104	73 - 119	1	30
Benzo[a]pyrene			80.0	87.7		ug/L		110	76 - 125	3	30
Benzo[b]fluoranthene			80.0	87.5		ug/L		109	78 - 123	0	30
Benzo[g,h,i]perylene			80.0	79.4		ug/L		99	63 - 133	10	30
Benzo[k]fluoranthene			80.0	87.4		ug/L		109	71 - 126	0	30
Bis(2-chloroethoxy)methane			80.0	72.4		ug/L		91	67 - 104	0	30
Bis(2-chloroethyl)ether			80.0	67.4		ug/L		84	63 - 106	5	30
Bis(2-ethylhexyl) phthalate			80.0	102		ug/L		128	63 - 135	3	30
Butyl benzyl phthalate			80.0	93.6		ug/L		117	66 - 129	0	30
Carbazole			80.0	84.0		ug/L		105	68 - 121	2	30
Chrysene			80.0	82.8		ug/L		103	73 - 121	1	30
Dibenz(a,h)anthracene			80.0	86.1		ug/L		108	59 - 136	7	30
Dibenzofuran			80.0	71.9		ug/L		90	67 - 108	0	30
Diethyl phthalate			80.0	91.9		ug/L		115	61 - 129	0	30
Dimethyl phthalate			80.0	85.5		ug/L		107	65 - 121	1	30
Di-n-butyl phthalate			80.0	93.3		ug/L		117	64 - 130	2	30
Di-n-octyl phthalate			80.0	104		ug/L		129	64 - 131	2	30
Fluoranthene			80.0	87.5		ug/L		109	66 - 123	4	30
Fluorene			80.0	76.9		ug/L		96	67 - 112	2	30
Hexachlorobenzene			80.0	73.6		ug/L		92	63 - 125	3	30
Hexachlorobutadiene			80.0	51.3		ug/L		64	34 - 99	3	30
Hexachlorocyclopentadiene			80.0	60.1		ug/L		75	18 - 99	4	30
Hexachloroethane			80.0	41.3		ug/L		52	39 - 92	8	30
Indeno[1,2,3-cd]pyrene			80.0	85.2		ug/L		107	57 - 142	11	30
Isophorone			80.0	77.8		ug/L		97	55 - 105	0	30
Naphthalene			80.0	60.7		ug/L		76	51 - 98	1	30
Nitrobenzene			80.0	70.8		ug/L		89	56 - 106	5	30
N-Nitrosodi-n-propylamine			80.0	74.8		ug/L		94	48 - 118	1	30
N-Nitrosodiphenylamine			80.0	74.4		ug/L		93	69 - 118	0	30
Pentachlorophenol			160	160		ug/L		100	54 - 120	3	30
Phenanthrene			80.0	76.8		ug/L		96	70 - 117	2	30
Phenol			80.0	21.5		ug/L		27	16 - 43	5	30
Pyrene			80.0	79.7		ug/L		100	63 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*108*		*26 - 139*
2-Fluorobiphenyl	*87*		*45 - 107*
2-Fluorophenol (Surr)	*38*		*25 - 58*
Nitrobenzene-d5 (Surr)	*90*		*51 - 108*
Phenol-d5 (Surr)	*25*		*14 - 39*
Terphenyl-d14 (Surr)	*103*		*40 - 148*

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

Lab Sample ID: LCSD 460-504508/5-A
Matrix: Water
Analysis Batch: 504609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine			160	193	E	ug/L		121	38 - 146	9	30
Benzaldehyde			160	136		ug/L		85	46 - 111	6	30
Caprolactam			160	44.2		ug/L		28	10 - 43	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*99*		*26 - 139*
2-Fluorobiphenyl	*82*		*45 - 107*
2-Fluorophenol (Surr)	*43*		*25 - 58*
Nitrobenzene-d5 (Surr)	*91*		*51 - 108*
Phenol-d5 (Surr)	*28*		*14 - 39*
Terphenyl-d14 (Surr)	*113*		*40 - 148*

Lab Sample ID: MB 460-505109/1-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.0044	U	0.33	0.0044	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
1,2,4,5-Tetrachlorobenzene	0.0043	U	0.33	0.0043	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
1,4-Dioxane	0.0091	U	0.33	0.0091	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,2'-oxybis[1-chloropropane]	0.0060	U	0.33	0.0060	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4,5-Trichlorophenol	0.011	U	0.33	0.011	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4,6-Trichlorophenol	0.017	U	0.13	0.017	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4-Dichlorophenol	0.0070	U	0.13	0.0070	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4-Dimethylphenol	0.015	U	0.33	0.015	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,4-Dinitrotoluene	0.017	U	0.067	0.017	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2,6-Dinitrotoluene	0.011	U	0.067	0.011	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Chlorophenol	0.0046	U	0.33	0.0046	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Methylnaphthalene	0.0041	U	0.33	0.0041	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Methylphenol	0.0053	U	0.33	0.0053	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Nitroaniline	0.012	U	0.33	0.012	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
2-Nitrophenol	0.011	U	0.33	0.011	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
3 & 4 Methylphenol	0.0056	U	0.33	0.0056	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
3-Nitroaniline	0.018	U	0.33	0.018	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4,6-Dinitro-2-methylphenol	0.054	U	0.27	0.054	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Bromophenyl phenyl ether	0.0043	U	0.33	0.0043	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Chloro-3-methylphenol	0.0055	U	0.33	0.0055	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Chloroaniline	0.023	U	0.33	0.023	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Chlorophenyl phenyl ether	0.0052	U	0.33	0.0052	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Methylphenol	0.0056	U	0.33	0.0056	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Nitroaniline	0.012	U	0.33	0.012	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Acenaphthene	0.024	U	0.33	0.024	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Acenaphthylene	0.0034	U	0.33	0.0034	mg/Kg		03/21/18 21:20	03/22/18 10:45	1

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

Lab Sample ID: MB 460-505109/1-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	0.0053	U	0.33	0.0053	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Anthracene	0.0037	U	0.33	0.0037	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Atrazine	0.0083	U	0.13	0.0083	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzaldehyde	0.014	U	0.33	0.014	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzo[a]anthracene	0.012	U	0.033	0.012	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Bis(2-chloroethoxy)methane	0.011	U	0.33	0.011	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Bis(2-chloroethyl)ether	0.0040	U	0.033	0.0040	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Caprolactam	0.020	U	0.33	0.020	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Carbazole	0.0039	U	0.33	0.0039	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Chrysene	0.0056	U	0.33	0.0056	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Dibenzofuran	0.0046	U	0.33	0.0046	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Diethyl phthalate	0.0048	U	0.33	0.0048	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Dimethyl phthalate	0.0040	U	0.33	0.0040	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Di-n-butyl phthalate	0.058	U	0.33	0.058	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Fluoranthene	0.0043	U	0.33	0.0043	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Fluorene	0.0045	U	0.33	0.0045	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Hexachlorobenzene	0.0048	U	0.033	0.0048	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Hexachloroethane	0.0051	U	0.033	0.0051	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Isophorone	0.0087	U	0.13	0.0087	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Nitrobenzene	0.0079	U	0.033	0.0079	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
N-Nitrosodi-n-propylamine	0.0053	U	0.033	0.0053	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
N-Nitrosodiphenylamine	0.0063	U	0.33	0.0063	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Phenanthrene	0.0058	U	0.33	0.0058	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Phenol	0.0049	U	0.33	0.0049	mg/Kg		03/21/18 21:20	03/22/18 10:45	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		03/21/18 21:20	03/22/18 10:45	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*25.3*	*A J*	*mg/Kg*		*3.04*		*03/21/18 21:20*	*03/22/18 10:45*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 103*	*03/21/18 21:20*	*03/22/18 10:45*	*1*
2-Fluorobiphenyl	*81*		*38 - 95*	*03/21/18 21:20*	*03/22/18 10:45*	*1*
2-Fluorophenol (Surr)	*86*		*25 - 92*	*03/21/18 21:20*	*03/22/18 10:45*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 94*	*03/21/18 21:20*	*03/22/18 10:45*	*1*

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

Lab Sample ID: MB 460-505109/1-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505109

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*85*		*32 - 91*	*03/21/18 21:20*	*03/22/18 10:45*	*1*
Terphenyl-d14 (Surr)	*85*		*24 - 109*	*03/21/18 21:20*	*03/22/18 10:45*	*1*

Lab Sample ID: LCS 460-505109/2-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	3.33	3.11		mg/Kg		93	64 - 108
1,2,4,5-Tetrachlorobenzene	3.33	3.12		mg/Kg		94	57 - 112
1,4-Dioxane	3.33	2.12		mg/Kg		64	27 - 70
2,2'-oxybis[1-chloropropane]	3.33	2.97		mg/Kg		89	39 - 122
2,3,4,6-Tetrachlorophenol	3.33	3.32		mg/Kg		100	60 - 114
2,4,5-Trichlorophenol	3.33	3.07		mg/Kg		92	60 - 106
2,4,6-Trichlorophenol	3.33	3.37		mg/Kg		101	62 - 110
2,4-Dichlorophenol	3.33	3.29		mg/Kg		99	61 - 103
2,4-Dimethylphenol	3.33	3.13		mg/Kg		94	63 - 101
2,4-Dinitrophenol	6.67	7.32		mg/Kg		110	56 - 122
2,4-Dinitrotoluene	3.33	3.62		mg/Kg		109	66 - 122
2,6-Dinitrotoluene	3.33	3.50		mg/Kg		105	70 - 114
2-Chloronaphthalene	3.33	3.07		mg/Kg		92	63 - 107
2-Chlorophenol	3.33	3.09		mg/Kg		93	62 - 97
2-Methylnaphthalene	3.33	3.07		mg/Kg		92	65 - 104
2-Methylphenol	3.33	3.07		mg/Kg		92	61 - 103
2-Nitroaniline	3.33	3.25		mg/Kg		97	57 - 114
2-Nitrophenol	3.33	3.40		mg/Kg		102	65 - 104
3 & 4 Methylphenol	3.33	3.09		mg/Kg		93	61 - 105
3,3'-Dichlorobenzidine	3.33	1.40		mg/Kg		42	18 - 88
3-Nitroaniline	3.33	2.13		mg/Kg		64	30 - 94
4,6-Dinitro-2-methylphenol	6.67	7.29		mg/Kg		109	67 - 120
4-Bromophenyl phenyl ether	3.33	3.31		mg/Kg		99	59 - 122
4-Chloro-3-methylphenol	3.33	3.17		mg/Kg		95	62 - 111
4-Chloroaniline	3.33	1.41		mg/Kg		42	18 - 94
4-Chlorophenyl phenyl ether	3.33	3.16		mg/Kg		95	66 - 110
4-Methylphenol	3.33	3.09		mg/Kg		93	61 - 105
4-Nitroaniline	3.33	2.85		mg/Kg		85	49 - 118
4-Nitrophenol	6.67	6.59		mg/Kg		99	43 - 141
Acenaphthene	3.33	2.96		mg/Kg		89	62 - 108
Acenaphthylene	3.33	3.01		mg/Kg		90	67 - 107
Acetophenone	3.33	2.97		mg/Kg		89	60 - 109
Anthracene	3.33	3.23		mg/Kg		97	69 - 111
Benzo[a]anthracene	3.33	3.13		mg/Kg		94	68 - 110
Benzo[a]pyrene	3.33	3.39		mg/Kg		102	72 - 115
Benzo[b]fluoranthene	3.33	3.39		mg/Kg		102	69 - 119
Benzo[g,h,i]perylene	3.33	3.26		mg/Kg		98	54 - 128
Benzo[k]fluoranthene	3.33	3.38		mg/Kg		101	70 - 115
Bis(2-chloroethoxy)methane	3.33	3.07		mg/Kg		92	65 - 106
Bis(2-chloroethyl)ether	3.33	2.99		mg/Kg		90	64 - 105

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

Lab Sample ID: LCS 460-505109/2-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	3.33	3.29		mg/Kg		99	63 - 125
Butyl benzyl phthalate	3.33	3.50		mg/Kg		105	65 - 125
Carbazole	3.33	3.05		mg/Kg		92	66 - 115
Chrysene	3.33	3.21		mg/Kg		96	70 - 111
Dibenz(a,h)anthracene	3.33	3.50		mg/Kg		105	60 - 130
Dibenzofuran	3.33	3.08		mg/Kg		92	67 - 107
Diethyl phthalate	3.33	3.10		mg/Kg		93	66 - 117
Dimethyl phthalate	3.33	3.09		mg/Kg		93	68 - 112
Di-n-butyl phthalate	3.33	3.12		mg/Kg		94	67 - 119
Di-n-octyl phthalate	3.33	3.47		mg/Kg		104	57 - 138
Fluoranthene	3.33	3.08		mg/Kg		92	64 - 114
Fluorene	3.33	3.12		mg/Kg		94	66 - 110
Hexachlorobenzene	3.33	3.25		mg/Kg		98	57 - 128
Hexachlorobutadiene	3.33	3.13		mg/Kg		94	60 - 108
Hexachlorocyclopentadiene	3.33	3.00		mg/Kg		90	50 - 129
Hexachloroethane	3.33	2.91		mg/Kg		87	63 - 99
Indeno[1,2,3-cd]pyrene	3.33	3.44		mg/Kg		103	53 - 137
Isophorone	3.33	3.00		mg/Kg		90	68 - 111
Naphthalene	3.33	3.02		mg/Kg		91	65 - 102
Nitrobenzene	3.33	3.12		mg/Kg		94	66 - 108
N-Nitrosodi-n-propylamine	3.33	2.95		mg/Kg		89	63 - 117
N-Nitrosodiphenylamine	3.33	3.25		mg/Kg		97	65 - 114
Pentachlorophenol	6.67	7.41		mg/Kg		111	56 - 116
Phenanthrene	3.33	3.15		mg/Kg		94	68 - 111
Phenol	3.33	3.15		mg/Kg		95	58 - 103
Pyrene	3.33	3.41		mg/Kg		102	64 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*10 - 103*
2-Fluorobiphenyl	*88*		*38 - 95*
2-Fluorophenol (Surr)	*91*		*25 - 92*
Nitrobenzene-d5 (Surr)	*87*		*37 - 94*
Phenol-d5 (Surr)	*90*		*32 - 91*
Terphenyl-d14 (Surr)	*91*		*24 - 109*

Lab Sample ID: LCS 460-505109/3-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6.67	7.34		mg/Kg		110	62 - 137
Benzaldehyde	6.67	6.27		mg/Kg		94	52 - 113
Caprolactam	6.67	7.53		mg/Kg		113	53 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 103*
2-Fluorobiphenyl	*89*		*38 - 95*

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

Lab Sample ID: LCS 460-505109/3-A
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*94*	*X*	*25 - 92*
Nitrobenzene-d5 (Surr)	*90*		*37 - 94*
Phenol-d5 (Surr)	*92*	*X*	*32 - 91*
Terphenyl-d14 (Surr)	*94*		*24 - 109*

Lab Sample ID: 460-152022-E-1-B MS
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	0.0048	U	3.61	3.08		mg/Kg	☼	85	64 - 108
1,2,4,5-Tetrachlorobenzene	0.0047	U	3.61	3.05		mg/Kg	☼	85	57 - 112
1,4-Dioxane	0.0099	U	3.61	2.06		mg/Kg	☼	57	27 - 70
2,2'-oxybis[1-chloropropane]	0.0065	U	3.61	2.90		mg/Kg	☼	81	39 - 122
2,3,4,6-Tetrachlorophenol	0.024	U	3.61	3.42		mg/Kg	☼	95	60 - 114
2,4,5-Trichlorophenol	0.012	U	3.61	3.08		mg/Kg	☼	86	60 - 106
2,4,6-Trichlorophenol	0.018	U	3.61	3.43		mg/Kg	☼	95	62 - 110
2,4-Dichlorophenol	0.0076	U	3.61	3.26		mg/Kg	☼	91	61 - 103
2,4-Dimethylphenol	0.016	U	3.61	3.10		mg/Kg	☼	86	63 - 101
2,4-Dinitrophenol	0.18	U	7.21	7.46		mg/Kg	☼	104	56 - 122
2,4-Dinitrotoluene	0.018	U	3.61	3.66		mg/Kg	☼	101	66 - 122
2,6-Dinitrotoluene	0.012	U	3.61	3.54		mg/Kg	☼	98	70 - 114
2-Chloronaphthalene	0.017	U	3.61	3.04		mg/Kg	☼	84	63 - 107
2-Chlorophenol	0.0050	U	3.61	3.04		mg/Kg	☼	84	62 - 97
2-Methylnaphthalene	0.0045	U	3.61	3.06		mg/Kg	☼	85	65 - 104
2-Methylphenol	0.0058	U	3.61	3.05		mg/Kg	☼	85	61 - 103
2-Nitroaniline	0.013	U	3.61	3.33		mg/Kg	☼	92	57 - 114
2-Nitrophenol	0.011	U	3.61	3.34		mg/Kg	☼	93	65 - 104
3 & 4 Methylphenol	0.0061	U	3.61	3.04		mg/Kg	☼	84	61 - 105
3,3'-Dichlorobenzidine	0.054	U	3.61	2.38		mg/Kg	☼	66	18 - 88
3-Nitroaniline	0.019	U	3.61	2.62		mg/Kg	☼	73	30 - 94
4,6-Dinitro-2-methylphenol	0.058	U	7.21	7.43		mg/Kg	☼	103	67 - 120
4-Bromophenyl phenyl ether	0.0046	U	3.61	3.32		mg/Kg	☼	92	59 - 122
4-Chloro-3-methylphenol	0.0059	U	3.61	3.24		mg/Kg	☼	90	62 - 111
4-Chloroaniline	0.025	U	3.61	1.92		mg/Kg	☼	53	18 - 94
4-Chlorophenyl phenyl ether	0.0056	U	3.61	3.17		mg/Kg	☼	88	66 - 110
4-Methylphenol	0.0061	U	3.61	3.04		mg/Kg	☼	84	61 - 105
4-Nitroaniline	0.013	U	3.61	3.12		mg/Kg	☼	87	49 - 118
4-Nitrophenol	0.058	U	7.21	6.57		mg/Kg	☼	91	43 - 141
Acenaphthene	0.026	U	3.61	3.00		mg/Kg	☼	83	62 - 108
Acenaphthylene	0.0037	U	3.61	3.08		mg/Kg	☼	85	67 - 107
Acetophenone	0.0058	U	3.61	2.91		mg/Kg	☼	81	60 - 109
Anthracene	0.015	J	3.61	3.22		mg/Kg	☼	89	69 - 111
Atrazine	0.0090	U	7.21	6.96		mg/Kg	☼	97	62 - 137
Benzaldehyde	0.016	U	7.21	5.44		mg/Kg	☼	75	52 - 113
Benzo[a]anthracene	0.026	J	3.61	3.23		mg/Kg	☼	89	68 - 110
Benzo[a]pyrene	0.016	J	3.61	3.38		mg/Kg	☼	93	72 - 115
Benzo[b]fluoranthene	0.025	J	3.61	3.36		mg/Kg	☼	93	69 - 119

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

Lab Sample ID: 460-152022-E-1-B MS
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	0.012	J	3.61	3.46		mg/Kg	☼	96	54 - 128
Benzo[k]fluoranthene	0.0070	U	3.61	3.24		mg/Kg	☼	90	70 - 115
Bis(2-chloroethoxy)methane	0.012	U	3.61	2.97		mg/Kg	☼	82	65 - 106
Bis(2-chloroethyl)ether	0.0043	U	3.61	2.90		mg/Kg	☼	81	64 - 105
Bis(2-ethylhexyl) phthalate	0.36		3.61	3.44		mg/Kg	☼	85	63 - 125
Butyl benzyl phthalate	0.017	U	3.61	3.57		mg/Kg	☼	99	65 - 125
Caprolactam	0.021	U	7.21	7.29		mg/Kg	☼	101	53 - 148
Carbazole	0.0042	U	3.61	3.16		mg/Kg	☼	88	66 - 115
Chrysene	0.023	J	3.61	3.31		mg/Kg	☼	91	70 - 111
Dibenz(a,h)anthracene	0.015	U	3.61	3.67		mg/Kg	☼	102	60 - 130
Dibenzofuran	0.014	J	3.61	3.15		mg/Kg	☼	87	67 - 107
Diethyl phthalate	0.0052	U	3.61	3.09		mg/Kg	☼	86	66 - 117
Dimethyl phthalate	0.0043	U	3.61	3.09		mg/Kg	☼	86	68 - 112
Di-n-butyl phthalate	0.063	U	3.61	3.13		mg/Kg	☼	87	67 - 119
Di-n-octyl phthalate	0.019	U	3.61	3.34		mg/Kg	☼	93	57 - 138
Fluoranthene	0.064	J	3.61	3.25		mg/Kg	☼	88	64 - 114
Fluorene	0.020	J	3.61	3.15		mg/Kg	☼	87	66 - 110
Hexachlorobenzene	0.0052	U	3.61	3.30		mg/Kg	☼	92	57 - 128
Hexachlorobutadiene	0.0076	U	3.61	3.04		mg/Kg	☼	84	60 - 108
Hexachlorocyclopentadiene	0.031	U	3.61	2.84		mg/Kg	☼	79	50 - 129
Hexachloroethane	0.0055	U	3.61	2.80		mg/Kg	☼	78	63 - 99
Indeno[1,2,3-cd]pyrene	0.014	U	3.61	3.67		mg/Kg	☼	102	53 - 137
Isophorone	0.0094	U	3.61	2.96		mg/Kg	☼	82	68 - 111
Naphthalene	0.015	J	3.61	2.96		mg/Kg	☼	82	65 - 102
Nitrobenzene	0.0086	U	3.61	3.07		mg/Kg	☼	85	66 - 108
N-Nitrosodi-n-propylamine	0.0057	U	3.61	2.91		mg/Kg	☼	81	63 - 117
N-Nitrosodiphenylamine	0.0069	U	3.61	3.25		mg/Kg	☼	90	65 - 114
Pentachlorophenol	0.073	U	7.21	7.43		mg/Kg	☼	103	56 - 116
Phenanthrene	0.073	J	3.61	3.34		mg/Kg	☼	91	68 - 111
Phenol	0.0053	U	3.61	3.10		mg/Kg	☼	86	58 - 103
Pyrene	0.061	J	3.61	3.55		mg/Kg	☼	97	64 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*10 - 103*
2-Fluorobiphenyl	*82*		*38 - 95*
2-Fluorophenol (Surr)	*82*		*25 - 92*
Nitrobenzene-d5 (Surr)	*79*		*37 - 94*
Phenol-d5 (Surr)	*83*		*32 - 91*
Terphenyl-d14 (Surr)	*86*		*24 - 109*

Lab Sample ID: 460-152022-E-1-C MSD
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	0.0048	U	3.61	3.22		mg/Kg	☼	89	64 - 108	5	30
1,2,4,5-Tetrachlorobenzene	0.0047	U	3.61	3.19		mg/Kg	☼	88	57 - 112	4	30
1,4-Dioxane	0.0099	U	3.61	2.10		mg/Kg	☼	58	27 - 70	2	30

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

Lab Sample ID: 460-152022-E-1-C MSD
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]	0.0065	U	3.61	2.97		mg/Kg	☼	82	39 - 122	2	30
2,3,4,6-Tetrachlorophenol	0.024	U	3.61	3.56		mg/Kg	☼	99	60 - 114	4	30
2,4,5-Trichlorophenol	0.012	U	3.61	3.26		mg/Kg	☼	90	60 - 106	6	30
2,4,6-Trichlorophenol	0.018	U	3.61	3.56		mg/Kg	☼	99	62 - 110	4	30
2,4-Dichlorophenol	0.0076	U	3.61	3.42		mg/Kg	☼	95	61 - 103	5	30
2,4-Dimethylphenol	0.016	U	3.61	3.25		mg/Kg	☼	90	63 - 101	5	30
2,4-Dinitrophenol	0.18	U	7.21	7.78		mg/Kg	☼	108	56 - 122	4	30
2,4-Dinitrotoluene	0.018	U	3.61	3.81		mg/Kg	☼	106	66 - 122	4	30
2,6-Dinitrotoluene	0.012	U	3.61	3.76		mg/Kg	☼	104	70 - 114	6	30
2-Chloronaphthalene	0.017	U	3.61	3.20		mg/Kg	☼	89	63 - 107	5	30
2-Chlorophenol	0.0050	U	3.61	3.12		mg/Kg	☼	86	62 - 97	2	30
2-Methylnaphthalene	0.0045	U	3.61	3.15		mg/Kg	☼	87	65 - 104	3	30
2-Methylphenol	0.0058	U	3.61	3.18		mg/Kg	☼	88	61 - 103	4	30
2-Nitroaniline	0.013	U	3.61	3.45		mg/Kg	☼	96	57 - 114	4	30
2-Nitrophenol	0.011	U	3.61	3.47		mg/Kg	☼	96	65 - 104	4	30
3 & 4 Methylphenol	0.0061	U	3.61	3.15		mg/Kg	☼	87	61 - 105	3	30
3,3'-Dichlorobenzidine	0.054	U	3.61	2.57		mg/Kg	☼	71	18 - 88	8	30
3-Nitroaniline	0.019	U	3.61	2.69		mg/Kg	☼	75	30 - 94	3	30
4,6-Dinitro-2-methylphenol	0.058	U	7.21	7.84		mg/Kg	☼	109	67 - 120	5	30
4-Bromophenyl phenyl ether	0.0046	U	3.61	3.47		mg/Kg	☼	96	59 - 122	5	30
4-Chloro-3-methylphenol	0.0059	U	3.61	3.36		mg/Kg	☼	93	62 - 111	4	30
4-Chloroaniline	0.025	U	3.61	2.09		mg/Kg	☼	58	18 - 94	9	30
4-Chlorophenyl phenyl ether	0.0056	U	3.61	3.30		mg/Kg	☼	92	66 - 110	4	30
4-Methylphenol	0.0061	U	3.61	3.15		mg/Kg	☼	87	61 - 105	3	30
4-Nitroaniline	0.013	U	3.61	3.22		mg/Kg	☼	89	49 - 118	3	30
4-Nitrophenol	0.058	U	7.21	6.83		mg/Kg	☼	95	43 - 141	4	30
Acenaphthene	0.026	U	3.61	3.14		mg/Kg	☼	87	62 - 108	5	30
Acenaphthylene	0.0037	U	3.61	3.16		mg/Kg	☼	88	67 - 107	3	30
Acetophenone	0.0058	U	3.61	2.98		mg/Kg	☼	83	60 - 109	2	30
Anthracene	0.015	J	3.61	3.32		mg/Kg	☼	92	69 - 111	3	30
Atrazine	0.0090	U	7.21	7.41		mg/Kg	☼	103	62 - 137	6	30
Benzaldehyde	0.016	U	7.21	5.58		mg/Kg	☼	77	52 - 113	3	30
Benzo[a]anthracene	0.026	J	3.61	3.35		mg/Kg	☼	92	68 - 110	4	30
Benzo[a]pyrene	0.016	J	3.61	3.53		mg/Kg	☼	97	72 - 115	5	30
Benzo[b]fluoranthene	0.025	J	3.61	3.54		mg/Kg	☼	97	69 - 119	5	30
Benzo[g,h,i]perylene	0.012	J	3.61	3.63		mg/Kg	☼	100	54 - 128	5	30
Benzo[k]fluoranthene	0.0070	U	3.61	3.39		mg/Kg	☼	94	70 - 115	5	30
Bis(2-chloroethoxy)methane	0.012	U	3.61	3.10		mg/Kg	☼	86	65 - 106	4	30
Bis(2-chloroethyl)ether	0.0043	U	3.61	2.97		mg/Kg	☼	82	64 - 105	2	30
Bis(2-ethylhexyl) phthalate	0.36		3.61	4.01		mg/Kg	☼	101	63 - 125	15	30
Butyl benzyl phthalate	0.017	U	3.61	3.75		mg/Kg	☼	104	65 - 125	5	30
Caprolactam	0.021	U	7.21	7.47		mg/Kg	☼	104	53 - 148	2	30
Carbazole	0.0042	U	3.61	3.26		mg/Kg	☼	90	66 - 115	3	30
Chrysene	0.023	J	3.61	3.43		mg/Kg	☼	95	70 - 111	4	30
Dibenz(a,h)anthracene	0.015	U	3.61	3.87		mg/Kg	☼	107	60 - 130	5	30
Dibenzofuran	0.014	J	3.61	3.26		mg/Kg	☼	90	67 - 107	3	30
Diethyl phthalate	0.0052	U	3.61	3.25		mg/Kg	☼	90	66 - 117	5	30
Dimethyl phthalate	0.0043	U	3.61	3.27		mg/Kg	☼	91	68 - 112	6	30

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

Lab Sample ID: 460-152022-E-1-C MSD
Matrix: Solid
Analysis Batch: 505174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 505109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate	0.063	U	3.61	3.31		mg/Kg	☼	92	67 - 119	6	30
Di-n-octyl phthalate	0.019	U	3.61	3.57		mg/Kg	☼	99	57 - 138	6	30
Fluoranthene	0.064	J	3.61	3.34		mg/Kg	☼	91	64 - 114	3	30
Fluorene	0.020	J	3.61	3.27		mg/Kg	☼	90	66 - 110	4	30
Hexachlorobenzene	0.0052	U	3.61	3.45		mg/Kg	☼	96	57 - 128	4	30
Hexachlorobutadiene	0.0076	U	3.61	3.18		mg/Kg	☼	88	60 - 108	4	30
Hexachlorocyclopentadiene	0.031	U	3.61	3.00		mg/Kg	☼	83	50 - 129	5	30
Hexachloroethane	0.0055	U	3.61	2.85		mg/Kg	☼	79	63 - 99	2	30
Indeno[1,2,3-cd]pyrene	0.014	U	3.61	3.95		mg/Kg	☼	109	53 - 137	7	30
Isophorone	0.0094	U	3.61	3.09		mg/Kg	☼	86	68 - 111	4	30
Naphthalene	0.015	J	3.61	3.05		mg/Kg	☼	84	65 - 102	3	30
Nitrobenzene	0.0086	U	3.61	3.08		mg/Kg	☼	85	66 - 108	0	30
N-Nitrosodi-n-propylamine	0.0057	U	3.61	3.04		mg/Kg	☼	84	63 - 117	4	30
N-Nitrosodiphenylamine	0.0069	U	3.61	3.37		mg/Kg	☼	93	65 - 114	4	30
Pentachlorophenol	0.073	U	7.21	7.98		mg/Kg	☼	111	56 - 116	7	30
Phenanthrene	0.073	J	3.61	3.42		mg/Kg	☼	93	68 - 111	2	30
Phenol	0.0053	U	3.61	3.21		mg/Kg	☼	89	58 - 103	3	30
Pyrene	0.061	J	3.61	3.66		mg/Kg	☼	100	64 - 121	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*100*		*10 - 103*
2-Fluorobiphenyl	*85*		*38 - 95*
2-Fluorophenol (Surr)	*84*		*25 - 92*
Nitrobenzene-d5 (Surr)	*81*		*37 - 94*
Phenol-d5 (Surr)	*84*		*32 - 91*
Terphenyl-d14 (Surr)	*90*		*24 - 109*

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

Lab Sample ID: MB 460-504508/1-A
Matrix: Water
Analysis Batch: 504754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.044	U	0.40	0.044	ug/L		03/19/18 09:12	03/20/18 12:19	1

Lab Sample ID: LCS 460-504508/6-A
Matrix: Water
Analysis Batch: 504754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.880		ug/L		110	10 - 137

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

Lab Sample ID: LCSD 460-504508/7-A
Matrix: Water
Analysis Batch: 504754

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504508

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.990		ug/L		124	10 - 137	12	30

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-504710/1-A
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		03/20/18 08:11	03/21/18 09:08	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		03/20/18 08:11	03/21/18 09:08	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 09:08	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 09:08	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		03/20/18 08:11	03/21/18 09:08	1
beta-BHC	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 09:08	1
Chlordane (technical)	0.055	U	0.50	0.055	ug/L		03/20/18 08:11	03/21/18 09:08	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		03/20/18 08:11	03/21/18 09:08	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endrin	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		03/20/18 08:11	03/21/18 09:08	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		03/20/18 08:11	03/21/18 09:08	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		03/20/18 08:11	03/21/18 09:08	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		03/20/18 08:11	03/21/18 09:08	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		03/20/18 08:11	03/21/18 09:08	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		03/20/18 08:11	03/21/18 09:08	1
Toxaphene	0.11	U	0.50	0.11	ug/L		03/20/18 08:11	03/21/18 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*10 - 150*	*03/20/18 08:11*	*03/21/18 09:08*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 150*	*03/20/18 08:11*	*03/21/18 09:08*	*1*
Tetrachloro-m-xylene	*81*		*12 - 136*	*03/20/18 08:11*	*03/21/18 09:08*	*1*
Tetrachloro-m-xylene	*80*		*12 - 136*	*03/20/18 08:11*	*03/21/18 09:08*	*1*

Lab Sample ID: LCS 460-504710/2-A
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	1.06		ug/L		132	58 - 136
4,4'-DDD	0.800	0.991		ug/L		124	58 - 136
4,4'-DDE	0.800	0.904		ug/L		113	56 - 132
4,4'-DDE	0.800	0.892		ug/L		112	56 - 132
4,4'-DDT	0.800	0.876		ug/L		110	56 - 134
4,4'-DDT	0.800	0.826		ug/L		103	56 - 134
Aldrin	0.800	0.892		ug/L		111	52 - 125

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-504710/2-A
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.800	0.827		ug/L		103	52 - 125
alpha-BHC	0.800	0.892		ug/L		111	57 - 133
alpha-BHC	0.800	0.865		ug/L		108	57 - 133
beta-BHC	0.800	0.957		ug/L		120	61 - 134
beta-BHC	0.800	0.916		ug/L		115	61 - 134
delta-BHC	0.800	0.601		ug/L		75	56 - 130
delta-BHC	0.800	0.574		ug/L		72	56 - 130
Dieldrin	0.800	0.917		ug/L		115	61 - 135
Dieldrin	0.800	0.898		ug/L		112	61 - 135
Endosulfan I	0.800	0.957		ug/L		120	61 - 134
Endosulfan I	0.800	0.861		ug/L		108	61 - 134
Endosulfan II	0.800	0.951		ug/L		119	61 - 133
Endosulfan II	0.800	0.912		ug/L		114	61 - 133
Endosulfan sulfate	0.800	0.876		ug/L		109	59 - 133
Endosulfan sulfate	0.800	0.868		ug/L		108	59 - 133
Endrin	0.800	0.994		ug/L		124	60 - 135
Endrin	0.800	0.912		ug/L		114	60 - 135
Endrin aldehyde	0.800	0.935		ug/L		117	59 - 130
Endrin aldehyde	0.800	0.903		ug/L		113	59 - 130
Endrin ketone	0.800	0.997		ug/L		125	60 - 137
Endrin ketone	0.800	0.920		ug/L		115	60 - 137
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	59 - 131
gamma-BHC (Lindane)	0.800	0.876		ug/L		109	59 - 131
Heptachlor	0.800	0.842		ug/L		105	54 - 126
Heptachlor	0.800	0.802		ug/L		100	54 - 126
Heptachlor epoxide	0.800	0.902		ug/L		113	60 - 130
Heptachlor epoxide	0.800	0.844		ug/L		105	60 - 130
Methoxychlor	0.800	0.845		ug/L		106	57 - 133
Methoxychlor	0.800	0.843		ug/L		105	57 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*10 - 150*
DCB Decachlorobiphenyl	*88*		*10 - 150*
Tetrachloro-m-xylene	*91*		*12 - 136*
Tetrachloro-m-xylene	*100*		*12 - 136*

Lab Sample ID: 460-152194-I-4-A MS
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0060	U F1	0.800	1.13	F1	ug/L		141	58 - 136
4,4'-DDD	0.0060	U F1	0.800	1.07		ug/L		133	58 - 136
4,4'-DDE	0.0020	U	0.800	1.01		ug/L		126	56 - 132
4,4'-DDE	0.0020	U	0.800	0.977		ug/L		122	56 - 132
4,4'-DDT	0.0040	U	0.800	1.01		ug/L		126	56 - 134
4,4'-DDT	0.0040	U	0.800	0.971		ug/L		121	56 - 134
Aldrin	0.0030	U	0.800	0.922		ug/L		115	52 - 125

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-152194-I-4-A MS
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0030	U	0.800	0.866		ug/L		108	52 - 125
alpha-BHC	0.0070	U	0.800	1.01		ug/L		126	57 - 133
alpha-BHC	0.0070	U	0.800	0.980		ug/L		123	57 - 133
beta-BHC	0.0040	U F1	0.800	1.07		ug/L		134	61 - 134
beta-BHC	0.0040	U F1	0.800	1.05		ug/L		131	61 - 134
delta-BHC	0.0050	U	0.800	0.666		ug/L		83	56 - 130
delta-BHC	0.0050	U	0.800	0.645		ug/L		81	56 - 130
Dieldrin	0.0030	U	0.800	1.02		ug/L		128	61 - 135
Dieldrin	0.0030	U	0.800	1.01		ug/L		126	61 - 135
Endosulfan I	0.0020	U	0.800	1.04		ug/L		130	61 - 134
Endosulfan I	0.0020	U	0.800	0.966		ug/L		121	61 - 134
Endosulfan II	0.0040	U F1	0.800	1.07		ug/L		133	61 - 133
Endosulfan II	0.0040	U F1	0.800	1.02		ug/L		128	61 - 133
Endosulfan sulfate	0.0060	U	0.800	1.05		ug/L		131	59 - 133
Endosulfan sulfate	0.0060	U	0.800	0.975		ug/L		122	59 - 133
Endrin	0.0040	U F1	0.800	1.14	F1	ug/L		142	60 - 135
Endrin	0.0040	U F1	0.800	1.04		ug/L		131	60 - 135
Endrin aldehyde	0.0080	U F1	0.800	0.996		ug/L		124	59 - 130
Endrin aldehyde	0.0080	U F1	0.800	0.982		ug/L		123	59 - 130
Endrin ketone	0.0080	U F1	0.800	1.11	F1	ug/L		139	60 - 137
Endrin ketone	0.0080	U F1	0.800	1.05		ug/L		131	60 - 137
gamma-BHC (Lindane)	0.012	U	0.800	1.02		ug/L		128	59 - 131
gamma-BHC (Lindane)	0.012	U	0.800	1.01		ug/L		126	59 - 131
Heptachlor	0.0030	U	0.800	0.889		ug/L		111	54 - 126
Heptachlor	0.0030	U	0.800	0.858		ug/L		107	54 - 126
Heptachlor epoxide	0.0050	U	0.800	1.00		ug/L		126	60 - 130
Heptachlor epoxide	0.0050	U	0.800	0.939		ug/L		117	60 - 130
Methoxychlor	0.0040	U F1	0.800	0.906		ug/L		113	57 - 133
Methoxychlor	0.0040	U F1	0.800	1.06		ug/L		132	57 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*10 - 150*
DCB Decachlorobiphenyl	*90*		*10 - 150*
Tetrachloro-m-xylene	*90*		*12 - 136*
Tetrachloro-m-xylene	*101*		*12 - 136*

Lab Sample ID: 460-152194-J-4-A MSD
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.0060	U F1	0.800	1.19	F1	ug/L		149	58 - 136	6	30
4,4'-DDD	0.0060	U F1	0.800	1.10	F1	ug/L		137	58 - 136	3	30
4,4'-DDE	0.0020	U	0.800	1.08	F1	ug/L		135	56 - 132	6	30
4,4'-DDE	0.0020	U	0.800	0.925		ug/L		116	56 - 132	6	30
4,4'-DDT	0.0040	U	0.800	0.991		ug/L		124	56 - 134	2	30
4,4'-DDT	0.0040	U	0.800	0.926		ug/L		116	56 - 134	5	30
Aldrin	0.0030	U	0.800	0.924		ug/L		116	52 - 125	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-152194-J-4-A MSD
Matrix: Water
Analysis Batch: 505044

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504710

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.0030	U	0.800	0.838		ug/L		105	52 - 125	3	30
alpha-BHC	0.0070	U	0.800	1.09	F1	ug/L		136	57 - 133	7	30
alpha-BHC	0.0070	U	0.800	1.03		ug/L		129	57 - 133	5	30
beta-BHC	0.0040	U F1	0.800	1.17	F1	ug/L		146	61 - 134	9	30
beta-BHC	0.0040	U F1	0.800	1.11	F1	ug/L		138	61 - 134	6	30
delta-BHC	0.0050	U	0.800	0.723		ug/L		90	56 - 130	8	30
delta-BHC	0.0050	U	0.800	0.675		ug/L		84	56 - 130	5	30
Dieldrin	0.0030	U	0.800	1.09	F1	ug/L		136	61 - 135	6	30
Dieldrin	0.0030	U	0.800	1.04		ug/L		130	61 - 135	3	30
Endosulfan I	0.0020	U	0.800	1.01		ug/L		127	61 - 134	3	30
Endosulfan I	0.0020	U	0.800	1.00		ug/L		125	61 - 134	4	30
Endosulfan II	0.0040	U F1	0.800	1.15	F1	ug/L		143	61 - 133	7	30
Endosulfan II	0.0040	U F1	0.800	1.07	F1	ug/L		134	61 - 133	5	30
Endosulfan sulfate	0.0060	U	0.800	1.09	F1	ug/L		137	59 - 133	4	30
Endosulfan sulfate	0.0060	U	0.800	1.04		ug/L		130	59 - 133	6	30
Endrin	0.0040	U F1	0.800	1.23	F1	ug/L		154	60 - 135	7	30
Endrin	0.0040	U F1	0.800	1.09	F1	ug/L		136	60 - 135	4	30
Endrin aldehyde	0.0080	U F1	0.800	1.08	F1	ug/L		135	59 - 130	8	30
Endrin aldehyde	0.0080	U F1	0.800	1.06	F1	ug/L		133	59 - 130	8	30
Endrin ketone	0.0080	U F1	0.800	1.20	F1	ug/L		150	60 - 137	7	30
Endrin ketone	0.0080	U F1	0.800	1.12	F1	ug/L		140	60 - 137	6	30
gamma-BHC (Lindane)	0.012	U	0.800	1.10	F1	ug/L		137	59 - 131	7	30
gamma-BHC (Lindane)	0.012	U	0.800	1.05		ug/L		131	59 - 131	4	30
Heptachlor	0.0030	U	0.800	0.907		ug/L		113	54 - 126	2	30
Heptachlor	0.0030	U	0.800	0.844		ug/L		105	54 - 126	2	30
Heptachlor epoxide	0.0050	U	0.800	1.07	F1	ug/L		134	60 - 130	6	30
Heptachlor epoxide	0.0050	U	0.800	0.975		ug/L		122	60 - 130	4	30
Methoxychlor	0.0040	U F1	0.800	0.715	p F2	ug/L		89	57 - 133	38	30
Methoxychlor	0.0040	U F1	0.800	1.12	F1	ug/L		140	57 - 133	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*10 - 150*
DCB Decachlorobiphenyl	*57*		*10 - 150*
Tetrachloro-m-xylene	*86*		*12 - 136*
Tetrachloro-m-xylene	*97*		*12 - 136*

Lab Sample ID: MB 460-504832/1-A
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Chlordane (technical)	0.016	U	0.067	0.016	mg/Kg		03/20/18 14:42	03/22/18 10:13	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-504832/1-A
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/20/18 14:42	03/22/18 10:13	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/20/18 14:42	03/22/18 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*69 - 150*	*03/20/18 14:42*	*03/22/18 10:13*	*1*
DCB Decachlorobiphenyl	*87*		*69 - 150*	*03/20/18 14:42*	*03/22/18 10:13*	*1*
Tetrachloro-m-xylene	*92*		*74 - 150*	*03/20/18 14:42*	*03/22/18 10:13*	*1*
Tetrachloro-m-xylene	*89*		*74 - 150*	*03/20/18 14:42*	*03/22/18 10:13*	*1*

Lab Sample ID: LCS 460-504832/2-A
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.133	0.123		mg/Kg		92	67 - 130
4,4'-DDD	0.133	0.123		mg/Kg		92	67 - 130
4,4'-DDE	0.133	0.129		mg/Kg		97	70 - 127
4,4'-DDE	0.133	0.122		mg/Kg		91	70 - 127
4,4'-DDT	0.133	0.118		mg/Kg		89	70 - 122
4,4'-DDT	0.133	0.121		mg/Kg		91	70 - 122
Aldrin	0.133	0.119		mg/Kg		89	66 - 137
Aldrin	0.133	0.126		mg/Kg		94	66 - 137
alpha-BHC	0.133	0.125		mg/Kg		94	65 - 142
alpha-BHC	0.133	0.130		mg/Kg		98	65 - 142
beta-BHC	0.133	0.126		mg/Kg		94	70 - 132
beta-BHC	0.133	0.130		mg/Kg		97	70 - 132
delta-BHC	0.133	0.123		mg/Kg		92	65 - 136
delta-BHC	0.133	0.131		mg/Kg		99	65 - 136
Dieldrin	0.133	0.127		mg/Kg		95	70 - 134
Dieldrin	0.133	0.127		mg/Kg		95	70 - 134
Endosulfan I	0.133	0.126		mg/Kg		94	70 - 136
Endosulfan I	0.133	0.127		mg/Kg		95	70 - 136
Endosulfan II	0.133	0.122		mg/Kg		91	72 - 127
Endosulfan II	0.133	0.123		mg/Kg		92	72 - 127
Endosulfan sulfate	0.133	0.117		mg/Kg		88	71 - 128
Endosulfan sulfate	0.133	0.117		mg/Kg		88	71 - 128
Endrin	0.133	0.126		mg/Kg		94	74 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-504832/2-A
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.133	0.126		mg/Kg		94	74 - 129
Endrin aldehyde	0.133	0.118		mg/Kg		88	71 - 129
Endrin aldehyde	0.133	0.118		mg/Kg		88	71 - 129
Endrin ketone	0.133	0.127		mg/Kg		95	68 - 135
Endrin ketone	0.133	0.117		mg/Kg		88	68 - 135
gamma-BHC (Lindane)	0.133	0.120		mg/Kg		90	68 - 136
gamma-BHC (Lindane)	0.133	0.129		mg/Kg		96	68 - 136
Heptachlor	0.133	0.121		mg/Kg		91	68 - 132
Heptachlor	0.133	0.127		mg/Kg		96	68 - 132
Heptachlor epoxide	0.133	0.124		mg/Kg		93	72 - 131
Heptachlor epoxide	0.133	0.124		mg/Kg		93	72 - 131
Methoxychlor	0.133	0.120		mg/Kg		90	63 - 135
Methoxychlor	0.133	0.110		mg/Kg		82	63 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*69 - 150*
DCB Decachlorobiphenyl	*92*		*69 - 150*
Tetrachloro-m-xylene	*95*		*74 - 150*
Tetrachloro-m-xylene	*90*		*74 - 150*

Lab Sample ID: 460-152046-E-4-G MS
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0013	U	0.148	0.148		mg/Kg	☼	100	67 - 130
4,4'-DDD	0.0013	U	0.148	0.113		mg/Kg	☼	77	67 - 130
4,4'-DDE	0.00088	U	0.148	0.146		mg/Kg	☼	99	70 - 127
4,4'-DDE	0.00088	U	0.148	0.117		mg/Kg	☼	79	70 - 127
4,4'-DDT	0.0014	U	0.148	0.136		mg/Kg	☼	92	70 - 122
4,4'-DDT	0.0014	U	0.148	0.114		mg/Kg	☼	77	70 - 122
Aldrin	0.0011	U	0.148	0.133		mg/Kg	☼	90	66 - 137
Aldrin	0.0011	U	0.148	0.117		mg/Kg	☼	79	66 - 137
alpha-BHC	0.00075	U	0.148	0.143		mg/Kg	☼	97	65 - 142
alpha-BHC	0.00075	U	0.148	0.121		mg/Kg	☼	82	65 - 142
beta-BHC	0.00083	U	0.148	0.145		mg/Kg	☼	98	70 - 132
beta-BHC	0.00083	U	0.148	0.121		mg/Kg	☼	82	70 - 132
delta-BHC	0.00045	U	0.148	0.139		mg/Kg	☼	94	65 - 136
delta-BHC	0.00045	U	0.148	0.124		mg/Kg	☼	84	65 - 136
Dieldrin	0.00096	U	0.148	0.146		mg/Kg	☼	99	70 - 134
Dieldrin	0.00096	U	0.148	0.119		mg/Kg	☼	80	70 - 134
Endosulfan I	0.0011	U	0.148	0.142		mg/Kg	☼	96	70 - 136
Endosulfan I	0.0011	U	0.148	0.118		mg/Kg	☼	80	70 - 136
Endosulfan II	0.0019	U	0.148	0.143		mg/Kg	☼	97	72 - 127
Endosulfan II	0.0019	U	0.148	0.116		mg/Kg	☼	78	72 - 127
Endosulfan sulfate	0.00093	U	0.148	0.138		mg/Kg	☼	93	71 - 128
Endosulfan sulfate	0.00093	U	0.148	0.107		mg/Kg	☼	73	71 - 128
Endrin	0.0011	U	0.148	0.147		mg/Kg	☼	100	74 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-152046-E-4-G MS
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.0011	U	0.148	0.116		mg/Kg	☼	79	74 - 129
Endrin aldehyde	0.0018	U	0.148	0.137		mg/Kg	☼	93	71 - 129
Endrin aldehyde	0.0018	U	0.148	0.114		mg/Kg	☼	77	71 - 129
Endrin ketone	0.0014	U F2	0.148	0.146		mg/Kg	☼	99	68 - 135
Endrin ketone	0.0014	U	0.148	0.107		mg/Kg	☼	73	68 - 135
gamma-BHC (Lindane)	0.00069	U	0.148	0.139		mg/Kg	☼	94	68 - 136
gamma-BHC (Lindane)	0.00069	U	0.148	0.120		mg/Kg	☼	81	68 - 136
Heptachlor	0.00088	U	0.148	0.133		mg/Kg	☼	90	68 - 132
Heptachlor	0.00088	U	0.148	0.118		mg/Kg	☼	80	68 - 132
Heptachlor epoxide	0.0011	U	0.148	0.139		mg/Kg	☼	94	72 - 131
Heptachlor epoxide	0.0011	U	0.148	0.116		mg/Kg	☼	79	72 - 131
Methoxychlor	0.0017	U F2	0.148	0.140		mg/Kg	☼	94	63 - 135
Methoxychlor	0.0017	U	0.148	0.102		mg/Kg	☼	69	63 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*69 - 150*
DCB Decachlorobiphenyl	*73*		*69 - 150*
Tetrachloro-m-xylene	*93*		*74 - 150*
Tetrachloro-m-xylene	*70*	*X*	*74 - 150*

Lab Sample ID: 460-152046-E-4-H MSD
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.0013	U	0.148	0.152		mg/Kg	☼	103	67 - 130	29	30
4,4'-DDD	0.0013	U	0.148	0.160		mg/Kg	☼	109	67 - 130	8	30
4,4'-DDE	0.00088	U	0.148	0.152		mg/Kg	☼	103	70 - 127	26	30
4,4'-DDE	0.00088	U	0.148	0.162		mg/Kg	☼	110	70 - 127	10	30
4,4'-DDT	0.0014	U	0.148	0.141		mg/Kg	☼	96	70 - 122	21	30
4,4'-DDT	0.0014	U	0.148	0.156		mg/Kg	☼	105	70 - 122	13	30
Aldrin	0.0011	U	0.148	0.140		mg/Kg	☼	95	66 - 137	18	30
Aldrin	0.0011	U	0.148	0.156		mg/Kg	☼	106	66 - 137	16	30
alpha-BHC	0.00075	U	0.148	0.148		mg/Kg	☼	100	65 - 142	20	30
alpha-BHC	0.00075	U	0.148	0.162		mg/Kg	☼	110	65 - 142	12	30
beta-BHC	0.00083	U	0.148	0.147		mg/Kg	☼	99	70 - 132	19	30
beta-BHC	0.00083	U	0.148	0.162		mg/Kg	☼	109	70 - 132	11	30
delta-BHC	0.00045	U	0.148	0.145		mg/Kg	☼	98	65 - 136	16	30
delta-BHC	0.00045	U	0.148	0.166		mg/Kg	☼	112	65 - 136	18	30
Dieldrin	0.00096	U	0.148	0.151		mg/Kg	☼	102	70 - 134	24	30
Dieldrin	0.00096	U	0.148	0.161		mg/Kg	☼	109	70 - 134	9	30
Endosulfan I	0.0011	U	0.148	0.148		mg/Kg	☼	100	70 - 136	23	30
Endosulfan I	0.0011	U	0.148	0.163		mg/Kg	☼	111	70 - 136	14	30
Endosulfan II	0.0019	U	0.148	0.144		mg/Kg	☼	98	72 - 127	22	30
Endosulfan II	0.0019	U	0.148	0.156		mg/Kg	☼	106	72 - 127	9	30
Endosulfan sulfate	0.00093	U	0.148	0.145		mg/Kg	☼	98	71 - 128	30	30
Endosulfan sulfate	0.00093	U	0.148	0.150		mg/Kg	☼	101	71 - 128	8	30
Endrin	0.0011	U	0.148	0.152		mg/Kg	☼	103	74 - 129	27	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-152046-E-4-H MSD
Matrix: Solid
Analysis Batch: 505161

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.0011	U	0.148	0.162		mg/Kg	☼	109	74 - 129	10	30
Endrin aldehyde	0.0018	U	0.148	0.143		mg/Kg	☼	97	71 - 129	22	30
Endrin aldehyde	0.0018	U	0.148	0.155		mg/Kg	☼	105	71 - 129	12	30
Endrin ketone	0.0014	U F2	0.148	0.153		mg/Kg	☼	104	68 - 135	5	30
Endrin ketone	0.0014	U	0.148	0.151	F2	mg/Kg	☼	102	68 - 135	34	30
gamma-BHC (Lindane)	0.00069	U	0.148	0.143		mg/Kg	☼	97	68 - 136	17	30
gamma-BHC (Lindane)	0.00069	U	0.148	0.161		mg/Kg	☼	109	68 - 136	15	30
Heptachlor	0.00088	U	0.148	0.140		mg/Kg	☼	95	68 - 132	17	30
Heptachlor	0.00088	U	0.148	0.159		mg/Kg	☼	107	68 - 132	17	30
Heptachlor epoxide	0.0011	U	0.148	0.145		mg/Kg	☼	98	72 - 131	22	30
Heptachlor epoxide	0.0011	U	0.148	0.159		mg/Kg	☼	107	72 - 131	13	30
Methoxychlor	0.0017	U F2	0.148	0.144		mg/Kg	☼	97	63 - 135	3	30
Methoxychlor	0.0017	U	0.148	0.142	F2	mg/Kg	☼	96	63 - 135	33	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*69 - 150*
DCB Decachlorobiphenyl	*99*		*69 - 150*
Tetrachloro-m-xylene	*95*		*74 - 150*
Tetrachloro-m-xylene	*93*		*74 - 150*

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

Lab Sample ID: MB 460-504716/1-A
Matrix: Water
Analysis Batch: 505004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1221	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1232	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1242	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1248	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1254	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1260	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor 1268	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 08:11	1
Aroclor-1262	0.099	U	0.40	0.099	ug/L		03/20/18 08:25	03/21/18 08:11	1
Polychlorinated biphenyls, Total	0.10	U	0.40	0.10	ug/L		03/20/18 08:25	03/21/18 08:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*10 - 150*	*03/20/18 08:25*	*03/21/18 08:11*	*1*
DCB Decachlorobiphenyl	*109*		*10 - 150*	*03/20/18 08:25*	*03/21/18 08:11*	*1*

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

Lab Sample ID: LCS 460-504716/2-A
Matrix: Water
Analysis Batch: 505004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504716

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.98		ug/L		99	78 - 150		
Aroclor 1016			4.00	3.67		ug/L		92	78 - 150		
Aroclor 1260			4.00	4.71		ug/L		118	80 - 150		
Aroclor 1260			4.00	4.34		ug/L		108	80 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*10 - 150*
DCB Decachlorobiphenyl	*113*		*10 - 150*

Lab Sample ID: LCSD 460-504716/3-A
Matrix: Water
Analysis Batch: 505004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504716

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.96		ug/L		99	78 - 150	1	30
Aroclor 1016			4.00	3.67		ug/L		92	78 - 150	0	30
Aroclor 1260			4.00	4.69		ug/L		117	80 - 150	1	30
Aroclor 1260			4.00	4.36		ug/L		109	80 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*10 - 150*
DCB Decachlorobiphenyl	*113*		*10 - 150*

Lab Sample ID: MB 460-504830/1-A
Matrix: Solid
Analysis Batch: 505165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.0089	U	0.067	0.0089	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1221	0.0089	U	0.067	0.0089	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1232	0.0089	U	0.067	0.0089	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1242	0.0089	U	0.067	0.0089	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1248	0.0089	U	0.067	0.0089	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1254	0.0092	U	0.067	0.0092	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1260	0.0092	U	0.067	0.0092	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor 1268	0.0092	U	0.067	0.0092	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Aroclor-1262	0.0092	U	0.067	0.0092	mg/Kg		03/20/18 14:37	03/22/18 08:04	1
Polychlorinated biphenyls, Total	0.0092	U	0.067	0.0092	mg/Kg		03/20/18 14:37	03/22/18 08:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*53 - 150*	*03/20/18 14:37*	*03/22/18 08:04*	*1*
DCB Decachlorobiphenyl	*113*		*53 - 150*	*03/20/18 14:37*	*03/22/18 08:04*	*1*

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

Lab Sample ID: LCS 460-504830/2-A
Matrix: Solid
Analysis Batch: 505165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.333	0.338		mg/Kg		102	76 - 146
Aroclor 1016	0.333	0.322		mg/Kg		97	76 - 146
Aroclor 1260	0.333	0.347		mg/Kg		104	74 - 148
Aroclor 1260	0.333	0.322		mg/Kg		96	74 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*110*		*53 - 150*
DCB Decachlorobiphenyl	*118*		*53 - 150*

Lab Sample ID: 460-152046-E-4-D MS
Matrix: Solid
Analysis Batch: 505165

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.0099	U	0.369	0.356		mg/Kg	☼	96	76 - 146
Aroclor 1016	0.0099	U	0.369	0.379		mg/Kg	☼	103	76 - 146
Aroclor 1260	0.010	U	0.369	0.356		mg/Kg	☼	96	74 - 148
Aroclor 1260	0.010	U	0.369	0.344		mg/Kg	☼	93	74 - 148

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*53 - 150*
DCB Decachlorobiphenyl	*102*		*53 - 150*

Lab Sample ID: 460-152046-E-4-E MSD
Matrix: Solid
Analysis Batch: 505165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	0.0099	U	0.369	0.338		mg/Kg	☼	92	76 - 146	5	30
Aroclor 1016	0.0099	U	0.369	0.438		mg/Kg	☼	119	76 - 146	14	30
Aroclor 1260	0.010	U	0.369	0.354		mg/Kg	☼	96	74 - 148	1	30
Aroclor 1260	0.010	U	0.369	0.334		mg/Kg	☼	90	74 - 148	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*53 - 150*
DCB Decachlorobiphenyl	*109*		*53 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-504339/1-A ^2
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.1	U	20.0	4.1	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Antimony	0.24	U	2.0	0.24	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Arsenic	0.37	U	1.5	0.37	mg/Kg		03/17/18 23:50	03/19/18 13:15	2

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 460-504339/1-A ^2
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.6	U	20.0	1.6	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Beryllium	0.023	U	0.20	0.023	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Cadmium	0.060	U	0.40	0.060	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Calcium	51.0	U	500	51.0	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Chromium	0.28	U	1.0	0.28	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Cobalt	0.57	U	5.0	0.57	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Copper	0.57	U	2.5	0.57	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Iron	2.7	U	15.0	2.7	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Lead	0.30	U	1.0	0.30	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Magnesium	38.6	U	500	38.6	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Manganese	0.16	U	1.5	0.16	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Nickel	0.38	U	4.0	0.38	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Potassium	26.6	U	500	26.6	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Selenium	0.61	U	2.0	0.61	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Silver	0.15	U	1.0	0.15	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Sodium	38.5	U	500	38.5	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Thallium	0.59	U	2.0	0.59	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Vanadium	0.60	U	5.0	0.60	mg/Kg		03/17/18 23:50	03/19/18 13:15	2
Zinc	0.26	U	3.0	0.26	mg/Kg		03/17/18 23:50	03/19/18 13:15	2

Lab Sample ID: LCSSRM 460-504339/2-A
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504339

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8000	6604		mg/Kg		82.5	47.4 - 152.5
Antimony	65.1	47.03		mg/Kg		72.2	0.2 - 212.0
Arsenic	147	134.7		mg/Kg		91.7	83.0 - 117.0
Barium	314	321.6		mg/Kg		102.4	82.2 - 117.8
Beryllium	53.4	56.04		mg/Kg		104.9	82.8 - 117.2
Cadmium	193	205.7		mg/Kg		106.6	82.4 - 117.6
Calcium	4580	4545		mg/Kg		99.2	80.8 - 119.0
Chromium	82.6	78.71		mg/Kg		95.3	81.8 - 118.2
Cobalt	81.3	92.83		mg/Kg		114.2	83.4 - 116.6
Copper	171	163.3		mg/Kg		95.5	83.6 - 116.4
Iron	14100	11720		mg/Kg		83.1	60.4 - 139.7
Lead	92.3	88.89		mg/Kg		96.3	82.8 - 117.0
Magnesium	2240	2038		mg/Kg		91.0	75.4 - 125.0

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-504339/2-A
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504339

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	222	227.7		mg/Kg		102.6	82.0 - 118.0
Nickel	137	156.1		mg/Kg		113.9	82.5 - 118.2
Potassium	2000	1758		mg/Kg		87.9	69.5 - 130.5
Selenium	187	189.0		mg/Kg		101.1	79.1 - 121.4
Silver	40.7	36.95		mg/Kg		90.8	79.6 - 120.4
Sodium	216	211.3	J	mg/Kg		97.8	72.2 - 127.8
Thallium	153	162.2		mg/Kg		106.0	81.0 - 119.0
Vanadium	86.6	92.20		mg/Kg		106.5	77.6 - 122.4
Zinc	189	205.3		mg/Kg		108.6	79.9 - 120.1

Lab Sample ID: 460-152163-C-1-C MS
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11900		152	11300	4	mg/Kg	☼	-414	75 - 125
Antimony	1210		37.9	1059	4	mg/Kg	☼	-398	75 - 125
Arsenic	455		152	583.7		mg/Kg	☼	85	75 - 125
Barium	1940		152	2265	4	mg/Kg	☼	215	75 - 125
Beryllium	1.1		3.79	4.78		mg/Kg	☼	96	75 - 125
Cadmium	34.9		3.79	36.78	4	mg/Kg	☼	50	75 - 125
Calcium	144000		1520	135600	4	mg/Kg	☼	-524	75 - 125
Chromium	650		15.2	618.9	4	mg/Kg	☼	-202	75 - 125
Cobalt	109		37.9	140.8		mg/Kg	☼	85	75 - 125
Copper	3240		18.9	3057	4	mg/Kg	☼	-947	75 - 125
Iron	277000		75.8	259100	4	mg/Kg	☼	-2390	75 - 125
Magnesium	24300		1520	24100	4	mg/Kg	☼	-11	75 - 125
Manganese	1710		37.9	1628	4	mg/Kg	☼	-205	75 - 125
Nickel	390		37.9	409.1	4	mg/Kg	☼	52	75 - 125
Potassium	2020	J	1520	3374		mg/Kg	☼	90	75 - 125
Selenium	14.7		152	160.0		mg/Kg	☼	96	75 - 125
Silver	39.3		3.79	37.95	4	mg/Kg	☼	-36	75 - 125
Sodium	30400		1520	30000	4	mg/Kg	☼	-27	75 - 125
Thallium	2.4	U	152	142.3		mg/Kg	☼	94	75 - 125
Vanadium	76.4		37.9	109.5		mg/Kg	☼	87	75 - 125
Zinc	2720		37.9	2618	4	mg/Kg	☼	-264	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 460-152163-C-1-B DU
Matrix: Solid
Analysis Batch: 504569

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 504339

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	11900		11210		mg/Kg	☼	6	20
Antimony	1210		1125		mg/Kg	☼	7	20
Arsenic	455		426.5		mg/Kg	☼	6	20
Barium	1940		1808		mg/Kg	☼	7	20
Beryllium	1.1		1.08		mg/Kg	☼	6	20
Cadmium	34.9		32.26		mg/Kg	☼	8	20
Calcium	144000		135000		mg/Kg	☼	6	20
Chromium	650		608.5		mg/Kg	☼	7	20
Cobalt	109		101.2		mg/Kg	☼	7	20
Copper	3240		3026		mg/Kg	☼	7	20
Iron	277000		260200		mg/Kg	☼	6	20
Magnesium	24300		22780		mg/Kg	☼	6	20
Manganese	1710		1603		mg/Kg	☼	6	20
Nickel	390		363.1		mg/Kg	☼	7	20
Potassium	2020	J	1895	J	mg/Kg	☼	6	20
Selenium	14.7		13.32		mg/Kg	☼	10	20
Silver	39.3		36.88		mg/Kg	☼	6	20
Sodium	30400		28640		mg/Kg	☼	6	20
Thallium	2.4	U	2.3	U	mg/Kg	☼	NC	20
Vanadium	76.4		72.27		mg/Kg	☼	6	20
Zinc	2720		2538		mg/Kg	☼	7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 460-504338/1-A ^2
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15.0	U	40.0	15.0	ug/L		03/17/18 23:05	03/19/18 18:17	2
Antimony	0.62	U	2.0	0.62	ug/L		03/17/18 23:05	03/19/18 18:17	2
Arsenic	0.77	U	2.0	0.77	ug/L		03/17/18 23:05	03/19/18 18:17	2
Barium	1.1	U	4.0	1.1	ug/L		03/17/18 23:05	03/19/18 18:17	2
Beryllium	0.26	U	0.80	0.26	ug/L		03/17/18 23:05	03/19/18 18:17	2
Cadmium	0.61	U	2.0	0.61	ug/L		03/17/18 23:05	03/19/18 18:17	2
Calcium	67.6	U	200	67.6	ug/L		03/17/18 23:05	03/19/18 18:17	2
Chromium	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:17	2
Cobalt	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:17	2
Copper	1.9	U	4.0	1.9	ug/L		03/17/18 23:05	03/19/18 18:17	2
Iron	45.7	U	120	45.7	ug/L		03/17/18 23:05	03/19/18 18:17	2
Lead	0.37	U	1.2	0.37	ug/L		03/17/18 23:05	03/19/18 18:17	2
Magnesium	65.7	U	200	65.7	ug/L		03/17/18 23:05	03/19/18 18:17	2
Manganese	2.7	U	8.0	2.7	ug/L		03/17/18 23:05	03/19/18 18:17	2
Nickel	1.3	U	4.0	1.3	ug/L		03/17/18 23:05	03/19/18 18:17	2
Potassium	64.9	U	200	64.9	ug/L		03/17/18 23:05	03/19/18 18:17	2
Selenium	0.69	U	10.0	0.69	ug/L		03/17/18 23:05	03/19/18 18:17	2
Silver	1.4	U	2.0	1.4	ug/L		03/17/18 23:05	03/19/18 18:17	2
Sodium	75.7	U	200	75.7	ug/L		03/17/18 23:05	03/19/18 18:17	2

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

Lab Sample ID: MB 460-504338/1-A ^2
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.24	U	0.80	0.24	ug/L		03/17/18 23:05	03/19/18 18:17	2
Vanadium	1.2	U	4.0	1.2	ug/L		03/17/18 23:05	03/19/18 18:17	2
Zinc	5.4	U	16.0	5.4	ug/L		03/17/18 23:05	03/19/18 18:17	2

Lab Sample ID: LCS 460-504338/2-A ^2
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2500	2468		ug/L		99	80 - 120
Antimony	25.0	27.75		ug/L		111	80 - 120
Arsenic	50.0	51.36		ug/L		103	80 - 120
Barium	50.0	52.91		ug/L		106	80 - 120
Beryllium	25.0	27.70		ug/L		111	80 - 120
Cadmium	25.0	23.76		ug/L		95	80 - 120
Calcium	2500	2622		ug/L		105	80 - 120
Chromium	50.0	48.99		ug/L		98	80 - 120
Cobalt	25.0	24.14		ug/L		97	80 - 120
Copper	50.0	48.31		ug/L		97	80 - 120
Iron	2500	2565		ug/L		103	80 - 120
Lead	25.0	26.28		ug/L		105	80 - 120
Magnesium	2500	2404		ug/L		96	80 - 120
Manganese	250	254.8		ug/L		102	80 - 120
Nickel	50.0	47.36		ug/L		95	80 - 120
Potassium	2500	2590		ug/L		104	80 - 120
Selenium	50.0	50.32		ug/L		101	80 - 120
Silver	25.0	22.87		ug/L		91	80 - 120
Sodium	2500	2427		ug/L		97	80 - 120
Thallium	20.0	20.18		ug/L		101	80 - 120
Vanadium	50.0	49.14		ug/L		98	80 - 120
Zinc	250	234.7		ug/L		94	80 - 120

Lab Sample ID: 460-152136-1 MS
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Recharge Basin
Prep Type: Total/NA
Prep Batch: 504338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	33.0	J	2500	2576		ug/L		102	75 - 125
Antimony	1.6	J	25.0	28.89		ug/L		109	75 - 125
Arsenic	0.77	U	50.0	52.10		ug/L		104	75 - 125
Barium	18.3		50.0	72.05		ug/L		107	75 - 125
Beryllium	0.26	U	25.0	28.76		ug/L		115	75 - 125
Cadmium	0.61	U	25.0	25.50		ug/L		102	75 - 125
Calcium	11000		2500	13830	4	ug/L		111	75 - 125
Chromium	1.3	U	50.0	50.60		ug/L		101	75 - 125
Cobalt	1.3	U	25.0	25.01		ug/L		100	75 - 125
Copper	1.9	U	50.0	49.92		ug/L		100	75 - 125
Iron	119	J	2500	2752		ug/L		105	75 - 125
Lead	0.37	U	25.0	26.99		ug/L		108	75 - 125

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

Lab Sample ID: 460-152136-1 MS — **Client Sample ID: Recharge Basin**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504570 — **Prep Batch: 504338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	1750		2500	4244		ug/L		100	75 - 125
Manganese	20.7		250	282.5		ug/L		105	75 - 125
Nickel	1.3	U	50.0	49.48		ug/L		99	75 - 125
Potassium	3230		2500	5882		ug/L		106	75 - 125
Selenium	0.69	U	50.0	50.26		ug/L		101	75 - 125
Silver	1.4	U	25.0	23.49		ug/L		94	75 - 125
Sodium	9810		2500	12370		ug/L		103	75 - 125
Thallium	0.24	U	20.0	20.87		ug/L		104	75 - 125
Vanadium	1.4	J	50.0	50.92		ug/L		99	75 - 125
Zinc	7.8	J	250	248.3		ug/L		96	75 - 125

Lab Sample ID: 460-152136-1 DU — **Client Sample ID: Recharge Basin**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504570 — **Prep Batch: 504338**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	33.0	J	31.08	J	ug/L		6	20
Antimony	1.6	J	1.62	J	ug/L		1	20
Arsenic	0.77	U	0.77	U	ug/L		NC	20
Barium	18.3		17.37		ug/L		5	20
Beryllium	0.26	U	0.26	U	ug/L		NC	20
Cadmium	0.61	U	0.61	U	ug/L		NC	20
Calcium	11000		10610		ug/L		4	20
Chromium	1.3	U	1.3	U	ug/L		NC	20
Cobalt	1.3	U	1.3	U	ug/L		NC	20
Copper	1.9	U	1.9	U	ug/L		NC	20
Iron	119	J	112.9	J	ug/L		5	20
Lead	0.37	U	0.37	U	ug/L		NC	20
Magnesium	1750		1709		ug/L		2	20
Manganese	20.7		19.83		ug/L		4	20
Nickel	1.3	U	1.3	U	ug/L		NC	20
Potassium	3230		3119		ug/L		4	20
Selenium	0.69	U	0.69	U	ug/L		NC	20
Silver	1.4	U	1.4	U	ug/L		NC	20
Sodium	9810		9475		ug/L		3	20
Thallium	0.24	U	0.24	U	ug/L		NC	20
Vanadium	1.4	J	1.50	J	ug/L		5	20
Zinc	7.8	J	6.41	J	ug/L		20	20

Lab Sample ID: LCS 460-504514/2-A ^2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504570 — **Prep Batch: 504514**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1000	1045		ug/L		104	80 - 120
Antimony	10.0	10.0		ug/L		100	80 - 120
Arsenic	20.0	21.66		ug/L		108	80 - 120
Barium	20.0	21.30		ug/L		106	80 - 120
Beryllium	10.0	10.33		ug/L		103	80 - 120

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

Lab Sample ID: LCS 460-504514/2-A ^2
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	10.0	9.59		ug/L		96	80 - 120
Calcium	1000	1080		ug/L		108	80 - 120
Chromium	20.0	19.78		ug/L		99	80 - 120
Cobalt	10.0	9.99		ug/L		100	80 - 120
Copper	20.0	20.17		ug/L		101	80 - 120
Iron	1000	1057		ug/L		106	80 - 120
Lead	10.0	10.32		ug/L		103	80 - 120
Magnesium	1000	999.1		ug/L		100	80 - 120
Manganese	100	105.1		ug/L		105	80 - 120
Nickel	20.0	20.43		ug/L		102	80 - 120
Potassium	1000	1104		ug/L		110	80 - 120
Selenium	20.0	20.53		ug/L		103	80 - 120
Silver	10.0	8.98		ug/L		90	80 - 120
Sodium	1000	981.2		ug/L		98	80 - 120
Thallium	8.00	8.15		ug/L		102	80 - 120
Vanadium	20.0	20.15		ug/L		101	80 - 120
Zinc	100	96.91		ug/L		97	80 - 120

Lab Sample ID: MB 460-504395/1-B ^2
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 504514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15.0	U	40.0	15.0	ug/L		03/19/18 09:51	03/20/18 00:09	2
Antimony	0.62	U	2.0	0.62	ug/L		03/19/18 09:51	03/20/18 00:09	2
Arsenic	0.77	U	2.0	0.77	ug/L		03/19/18 09:51	03/20/18 00:09	2
Barium	1.1	U	4.0	1.1	ug/L		03/19/18 09:51	03/20/18 00:09	2
Beryllium	0.26	U	0.80	0.26	ug/L		03/19/18 09:51	03/20/18 00:09	2
Cadmium	0.61	U	2.0	0.61	ug/L		03/19/18 09:51	03/20/18 00:09	2
Calcium	67.6	U	200	67.6	ug/L		03/19/18 09:51	03/20/18 00:09	2
Chromium	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:09	2
Cobalt	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:09	2
Copper	1.9	U	4.0	1.9	ug/L		03/19/18 09:51	03/20/18 00:09	2
Iron	45.7	U	120	45.7	ug/L		03/19/18 09:51	03/20/18 00:09	2
Lead	0.37	U	1.2	0.37	ug/L		03/19/18 09:51	03/20/18 00:09	2
Magnesium	65.7	U	200	65.7	ug/L		03/19/18 09:51	03/20/18 00:09	2
Manganese	2.7	U	8.0	2.7	ug/L		03/19/18 09:51	03/20/18 00:09	2
Nickel	1.3	U	4.0	1.3	ug/L		03/19/18 09:51	03/20/18 00:09	2
Potassium	64.9	U	200	64.9	ug/L		03/19/18 09:51	03/20/18 00:09	2
Selenium	0.69	U	10.0	0.69	ug/L		03/19/18 09:51	03/20/18 00:09	2
Silver	1.4	U	2.0	1.4	ug/L		03/19/18 09:51	03/20/18 00:09	2
Sodium	75.7	U	200	75.7	ug/L		03/19/18 09:51	03/20/18 00:09	2
Thallium	0.24	U	0.80	0.24	ug/L		03/19/18 09:51	03/20/18 00:09	2
Vanadium	1.2	U	4.0	1.2	ug/L		03/19/18 09:51	03/20/18 00:09	2
Zinc	5.4	U	16.0	5.4	ug/L		03/19/18 09:51	03/20/18 00:09	2

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

Lab Sample ID: 460-152136-1 MS
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Recharge Basin
Prep Type: Dissolved
Prep Batch: 504514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	15.0	U	1000	997.4		ug/L		100	75 - 125
Antimony	0.62	U	10.0	8.45		ug/L		85	75 - 125
Arsenic	0.77	U	20.0	19.35		ug/L		97	75 - 125
Barium	16.4		20.0	37.72		ug/L		107	75 - 125
Beryllium	0.26	U	10.0	9.47		ug/L		95	75 - 125
Cadmium	0.61	U	10.0	9.24		ug/L		92	75 - 125
Calcium	10700		1000	11670	4	ug/L		95	75 - 125
Chromium	1.3	U	20.0	18.78		ug/L		94	75 - 125
Cobalt	1.3	U	10.0	9.46		ug/L		95	75 - 125
Copper	1.9	U	20.0	19.22		ug/L		96	75 - 125
Iron	45.7	U	1000	988.8		ug/L		99	75 - 125
Lead	0.37	U	10.0	10.27		ug/L		103	75 - 125
Magnesium	1670		1000	2578		ug/L		91	75 - 125
Manganese	2.7	U	100	98.42		ug/L		98	75 - 125
Nickel	1.3	U	20.0	18.58		ug/L		93	75 - 125
Potassium	3060		1000	4050		ug/L		99	75 - 125
Selenium	0.69	U	20.0	18.63		ug/L		93	75 - 125
Silver	1.4	U	10.0	9.04		ug/L		90	75 - 125
Sodium	9310		1000	10190	4	ug/L		88	75 - 125
Thallium	0.24	U	8.00	7.81		ug/L		98	75 - 125
Vanadium	1.2	U	20.0	19.49		ug/L		97	75 - 125
Zinc	5.4	U	100	96.29		ug/L		96	75 - 125

Lab Sample ID: 460-152136-1 DU
Matrix: Water
Analysis Batch: 504570

Client Sample ID: Recharge Basin
Prep Type: Dissolved
Prep Batch: 504514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	15.0	U	15.0	U	ug/L		NC	20
Antimony	0.62	U	0.62	U	ug/L		NC	20
Arsenic	0.77	U	0.77	U	ug/L		NC	20
Barium	16.4		16.83		ug/L		3	20
Beryllium	0.26	U	0.26	U	ug/L		NC	20
Cadmium	0.61	U	0.61	U	ug/L		NC	20
Calcium	10700		10670		ug/L		0.5	20
Chromium	1.3	U	1.3	U	ug/L		NC	20
Cobalt	1.3	U	1.3	U	ug/L		NC	20
Copper	1.9	U	1.9	U	ug/L		NC	20
Iron	45.7	U	45.7	U	ug/L		NC	20
Lead	0.37	U	0.37	U	ug/L		NC	20
Magnesium	1670		1655		ug/L		0.8	20
Manganese	2.7	U	2.7	U	ug/L		NC	20
Nickel	1.3	U	1.3	U	ug/L		NC	20
Potassium	3060		3046		ug/L		0.6	20
Selenium	0.69	U	0.69	U	ug/L		NC	20
Silver	1.4	U	1.4	U	ug/L		NC	20
Sodium	9310		9253		ug/L		0.6	20
Thallium	0.24	U	0.24	U	ug/L		NC	20

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

Lab Sample ID: 460-152136-1 DU — **Client Sample ID: Recharge Basin**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 504570 — **Prep Batch: 504514**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	1.2	U	1.2	U	ug/L		NC	20
Zinc	5.4	U	5.4	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-504533/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504582 — **Prep Batch: 504533**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		03/19/18 12:30	03/19/18 14:41	1

Lab Sample ID: LCS 460-504533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504582 — **Prep Batch: 504533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.967		ug/L		97	80 - 120

Lab Sample ID: 460-151771-D-9-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504582 — **Prep Batch: 504533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.17	U	1.00	0.885		ug/L		89	75 - 125

Lab Sample ID: 460-151771-D-9-C DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504582 — **Prep Batch: 504533**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.17	U	0.17	U	ug/L		NC	20

Lab Sample ID: LCS 460-504535/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504582 — **Prep Batch: 504535**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.945		ug/L		95	80 - 120

Lab Sample ID: MB 460-504532/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 504582 — **Prep Batch: 504535**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		03/19/18 12:43	03/19/18 15:31	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-151962-E-5-D MS
Matrix: Water
Analysis Batch: 504582

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 504535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.17	U	1.00	0.823		ug/L		82	75 - 125

Lab Sample ID: 460-151962-E-5-C DU
Matrix: Water
Analysis Batch: 504582

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 504535

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.17	U	0.17	U	ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-504419/1-A
Matrix: Solid
Analysis Batch: 504528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.017	0.011	mg/Kg		03/19/18 04:20	03/19/18 09:42	1

Lab Sample ID: LCSSRM 460-504419/2-A ^40
Matrix: Solid
Analysis Batch: 504528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504419

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	17.8	15.61		mg/Kg		87.7	66.9 - 133.1

Lab Sample ID: 460-152135-D-1-C MS
Matrix: Solid
Analysis Batch: 504528

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.032		0.0952	0.134		mg/Kg	☼	108	75 - 125

Lab Sample ID: 460-152135-D-1-B DU
Matrix: Solid
Analysis Batch: 504528

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 504419

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.032		0.0350		mg/Kg	☼	10	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-504258/9
Matrix: Water
Analysis Batch: 504258

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.7	U	10.0	2.7	ug/L			03/17/18 04:50	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-504258/10
Matrix: Water
Analysis Batch: 504258

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	72.0	71.20		ug/L		98.9	81.7 - 117.2

Lab Sample ID: 460-152125-E-2 MS
Matrix: Water
Analysis Batch: 504258

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	2.7	U	30.0	33.39		ug/L		111	85 - 115

Lab Sample ID: 460-152125-E-2 DU
Matrix: Water
Analysis Batch: 504258

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	2.7	U	2.7	U	ug/L		NC	20

Lab Sample ID: MB 460-504763/1-A
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.52	U	2.0	0.52	mg/Kg		03/20/18 09:41	03/20/18 13:45	1

Lab Sample ID: LCSI 460-504763/3-A
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504763

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	708	684.3		mg/Kg		97	80 - 120

Lab Sample ID: LCSSRM 460-504763/2-A
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504763

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	15.8	14.85		mg/Kg		93.9	84.2 - 114.4

Lab Sample ID: 460-152132-D-4-E MSS
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.57	U	44.1	37.99		mg/Kg	☼	86	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 460-152132-D-4-F MSI
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.57	U	780	737.7		mg/Kg	☼	95	75 - 125

Lab Sample ID: 460-152132-D-4-D DU
Matrix: Solid
Analysis Batch: 504841

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 504763

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.57	U	0.57	U	mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-505037/1-A
Matrix: Solid
Analysis Batch: 505233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.063	U	0.24	0.063	mg/Kg		03/21/18 09:37	03/22/18 09:48	1

Lab Sample ID: LCSSRM 460-505037/2-A ^20
Matrix: Solid
Analysis Batch: 505233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505037

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	157	58.56		mg/Kg		37.3	23.5 - 110.2

Lab Sample ID: MB 460-505250/1-A
Matrix: Water
Analysis Batch: 505599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.0	U	10.0	2.0	ug/L		03/22/18 12:46	03/23/18 10:57	1

Lab Sample ID: LCS 460-505250/2-A
Matrix: Water
Analysis Batch: 505599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	109.0		ug/L		109	85 - 115

Lab Sample ID: 460-152323-H-9-B MS
Matrix: Water
Analysis Batch: 505599

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 505250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.0	J F1	200	225.0	F1	ug/L		112	90 - 110

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 460-152323-H-9-C MSD
Matrix: Water
Analysis Batch: 505599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 505250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	2.0	J F1	200	202.0		ug/L		100	90 - 110	11	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
A	The tentatively identified compound is a suspected aldol-condensation product.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
V	Serial Dilution exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

GC/MS VOA

Prep Batch: 504287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	5035	

Analysis Batch: 504711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	8260C	504287
MB 460-504711/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-504711/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-504711/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Leach Batch: 504821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	TCLP	Solid	1311	
LB 460-504821/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 504963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-504821/1-A	Method Blank	TCLP	Solid	8260C	504821
MB 460-504963/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-504963/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-504963/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 505144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	8260C	
460-152136-3	Trip Blank	Total/NA	Water	8260C	
MB 460-505144/7	Method Blank	Total/NA	Water	8260C	
LCS 460-505144/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-505144/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 505151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	TCLP	Solid	8260C	504821
MB 460-505151/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-505151/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-505151/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 504508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	3510C	
MB 460-504508/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-504508/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 460-504508/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 460-504508/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-504508/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 460-504508/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 460-504508/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Analysis Batch: 504609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	8270D	504508
MB 460-504508/1-A	Method Blank	Total/NA	Water	8270D	504508
LCS 460-504508/2-A	Lab Control Sample	Total/NA	Water	8270D	504508
LCS 460-504508/4-A	Lab Control Sample	Total/NA	Water	8270D	504508
LCSD 460-504508/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	504508
LCSD 460-504508/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	504508

Analysis Batch: 504754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	8270D SIM	504508
MB 460-504508/1-A	Method Blank	Total/NA	Water	8270D SIM	504508
LCS 460-504508/6-A	Lab Control Sample	Total/NA	Water	8270D SIM	504508
LCSD 460-504508/7-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	504508

Prep Batch: 505109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	3546	
MB 460-505109/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-505109/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-505109/3-A	Lab Control Sample	Total/NA	Solid	3546	
460-152022-E-1-B MS	Matrix Spike	Total/NA	Solid	3546	
460-152022-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 505174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	8270D	505109
MB 460-505109/1-A	Method Blank	Total/NA	Solid	8270D	505109
LCS 460-505109/2-A	Lab Control Sample	Total/NA	Solid	8270D	505109
LCS 460-505109/3-A	Lab Control Sample	Total/NA	Solid	8270D	505109
460-152022-E-1-B MS	Matrix Spike	Total/NA	Solid	8270D	505109
460-152022-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	505109

GC Semi VOA

Prep Batch: 504710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	3510C	
MB 460-504710/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-504710/2-A	Lab Control Sample	Total/NA	Water	3510C	
460-152194-I-4-A MS	Matrix Spike	Total/NA	Water	3510C	
460-152194-J-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Prep Batch: 504716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	3510C	
MB 460-504716/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-504716/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-504716/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 504830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	3546	
MB 460-504830/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-504830/2-A	Lab Control Sample	Total/NA	Solid	3546	
460-152046-E-4-D MS	Matrix Spike	Total/NA	Solid	3546	
460-152046-E-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 504832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	3546	
MB 460-504832/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-504832/2-A	Lab Control Sample	Total/NA	Solid	3546	
460-152046-E-4-G MS	Matrix Spike	Total/NA	Solid	3546	
460-152046-E-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 505004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-504716/1-A	Method Blank	Total/NA	Water	8082A	504716
LCS 460-504716/2-A	Lab Control Sample	Total/NA	Water	8082A	504716
LCSD 460-504716/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	504716

Analysis Batch: 505006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	8082A	504716

Analysis Batch: 505044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	8081B	504710
MB 460-504710/1-A	Method Blank	Total/NA	Water	8081B	504710
LCS 460-504710/2-A	Lab Control Sample	Total/NA	Water	8081B	504710
460-152194-I-4-A MS	Matrix Spike	Total/NA	Water	8081B	504710
460-152194-J-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	504710

Analysis Batch: 505161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	8081B	504832
MB 460-504832/1-A	Method Blank	Total/NA	Solid	8081B	504832
LCS 460-504832/2-A	Lab Control Sample	Total/NA	Solid	8081B	504832
460-152046-E-4-G MS	Matrix Spike	Total/NA	Solid	8081B	504832
460-152046-E-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	504832

Analysis Batch: 505165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	8082A	504830
MB 460-504830/1-A	Method Blank	Total/NA	Solid	8082A	504830
LCS 460-504830/2-A	Lab Control Sample	Total/NA	Solid	8082A	504830
460-152046-E-4-D MS	Matrix Spike	Total/NA	Solid	8082A	504830
460-152046-E-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	504830

Metals

Prep Batch: 504338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	3010A	
MB 460-504338/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-504338/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-152136-1 MS	Recharge Basin	Total/NA	Water	3010A	
460-152136-1 DU	Recharge Basin	Total/NA	Water	3010A	

Prep Batch: 504339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	3050B	
MB 460-504339/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-504339/2-A	Lab Control Sample	Total/NA	Solid	3050B	
460-152163-C-1-C MS	Matrix Spike	Total/NA	Solid	3050B	
460-152163-C-1-B DU	Duplicate	Total/NA	Solid	3050B	

Filtration Batch: 504395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	FILTRATION	
MB 460-504395/1-B ^2	Method Blank	Dissolved	Water	FILTRATION	
460-152136-1 MS	Recharge Basin	Dissolved	Water	FILTRATION	
460-152136-1 DU	Recharge Basin	Dissolved	Water	FILTRATION	

Prep Batch: 504419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	7471B	
MB 460-504419/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-504419/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-152135-D-1-C MS	Matrix Spike	Total/NA	Solid	7471B	
460-152135-D-1-B DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 504514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	3010A	504395
MB 460-504395/1-B ^2	Method Blank	Dissolved	Water	3010A	504395
LCS 460-504514/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-152136-1 MS	Recharge Basin	Dissolved	Water	3010A	504395
460-152136-1 DU	Recharge Basin	Dissolved	Water	3010A	504395

Analysis Batch: 504528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	7471B	504419
MB 460-504419/1-A	Method Blank	Total/NA	Solid	7471B	504419
LCSSRM 460-504419/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	504419
460-152135-D-1-C MS	Matrix Spike	Total/NA	Solid	7471B	504419
460-152135-D-1-B DU	Duplicate	Total/NA	Solid	7471B	504419

Filtration Batch: 504532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	FILTRATION	
MB 460-504532/1-B	Method Blank	Dissolved	Water	FILTRATION	

Metals (Continued)

Prep Batch: 504533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	7470A	
MB 460-504533/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-504533/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-151771-D-9-D MS	Matrix Spike	Total/NA	Water	7470A	
460-151771-D-9-C DU	Duplicate	Total/NA	Water	7470A	

Prep Batch: 504535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	7470A	504532
MB 460-504532/1-B	Method Blank	Dissolved	Water	7470A	504532
LCS 460-504535/3-A	Lab Control Sample	Total/NA	Water	7470A	
460-151962-E-5-D MS	Matrix Spike	Dissolved	Water	7470A	
460-151962-E-5-C DU	Duplicate	Dissolved	Water	7470A	

Analysis Batch: 504569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-504339/1-A ^2	Method Blank	Total/NA	Solid	6010C	504339
LCSSRM 460-504339/2-A	Lab Control Sample	Total/NA	Solid	6010C	504339
460-152163-C-1-C MS	Matrix Spike	Total/NA	Solid	6010C	504339
460-152163-C-1-B DU	Duplicate	Total/NA	Solid	6010C	504339

Analysis Batch: 504570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	6020A	504514
460-152136-1	Recharge Basin	Total/NA	Water	6020A	504338
MB 460-504338/1-A ^2	Method Blank	Total/NA	Water	6020A	504338
MB 460-504395/1-B ^2	Method Blank	Dissolved	Water	6020A	504514
LCS 460-504338/2-A ^2	Lab Control Sample	Total/NA	Water	6020A	504338
LCS 460-504514/2-A ^2	Lab Control Sample	Total/NA	Water	6020A	504514
460-152136-1 MS	Recharge Basin	Dissolved	Water	6020A	504514
460-152136-1 MS	Recharge Basin	Total/NA	Water	6020A	504338
460-152136-1 DU	Recharge Basin	Dissolved	Water	6020A	504514
460-152136-1 DU	Recharge Basin	Total/NA	Water	6020A	504338

Analysis Batch: 504582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Dissolved	Water	7470A	504535
460-152136-1	Recharge Basin	Total/NA	Water	7470A	504533
MB 460-504532/1-B	Method Blank	Dissolved	Water	7470A	504535
MB 460-504533/1-A	Method Blank	Total/NA	Water	7470A	504533
LCS 460-504533/2-A	Lab Control Sample	Total/NA	Water	7470A	504533
LCS 460-504535/3-A	Lab Control Sample	Total/NA	Water	7470A	504535
460-151771-D-9-D MS	Matrix Spike	Total/NA	Water	7470A	504533
460-151962-E-5-D MS	Matrix Spike	Dissolved	Water	7470A	504535
460-151771-D-9-C DU	Duplicate	Total/NA	Water	7470A	504533
460-151962-E-5-C DU	Duplicate	Dissolved	Water	7470A	504535

Analysis Batch: 505273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	6010C	504339

General Chemistry

Analysis Batch: 504258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	7196A	
MB 460-504258/9	Method Blank	Total/NA	Water	7196A	
LCSSRM 460-504258/10	Lab Control Sample	Total/NA	Water	7196A	
460-152125-E-2 MS	Matrix Spike	Total/NA	Water	7196A	
460-152125-E-2 DU	Duplicate	Total/NA	Water	7196A	

Analysis Batch: 504259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	Moisture	
460-152103-F-3 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 504763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	3060A	
MB 460-504763/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-504763/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-504763/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-152132-D-4-E MSS	Matrix Spike	Total/NA	Solid	3060A	
460-152132-D-4-F MSI	Matrix Spike	Total/NA	Solid	3060A	
460-152132-D-4-D DU	Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 504841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	7196A	504763
MB 460-504763/1-A	Method Blank	Total/NA	Solid	7196A	504763
LCSI 460-504763/3-A	Lab Control Sample	Total/NA	Solid	7196A	504763
LCSSRM 460-504763/2-A	Lab Control Sample	Total/NA	Solid	7196A	504763
460-152132-D-4-E MSS	Matrix Spike	Total/NA	Solid	7196A	504763
460-152132-D-4-F MSI	Matrix Spike	Total/NA	Solid	7196A	504763
460-152132-D-4-D DU	Duplicate	Total/NA	Solid	7196A	504763

Prep Batch: 505037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	9012B	
MB 460-505037/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-505037/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 505233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-2	Ash Pit	Total/NA	Solid	9012B	505037
MB 460-505037/1-A	Method Blank	Total/NA	Solid	9012B	505037
LCSSRM 460-505037/2-A ^2	Lab Control Sample	Total/NA	Solid	9012B	505037

Prep Batch: 505250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	9012B	
MB 460-505250/1-A	Method Blank	Total/NA	Water	9012B	
LCS 460-505250/2-A	Lab Control Sample	Total/NA	Water	9012B	
460-152323-H-9-B MS	Matrix Spike	Total/NA	Water	9012B	
460-152323-H-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

General Chemistry (Continued)

Analysis Batch: 505599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-152136-1	Recharge Basin	Total/NA	Water	9012B	505250
MB 460-505250/1-A	Method Blank	Total/NA	Water	9012B	505250
LCS 460-505250/2-A	Lab Control Sample	Total/NA	Water	9012B	505250
460-152323-H-9-B MS	Matrix Spike	Total/NA	Water	9012B	505250
460-152323-H-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	505250

Client Sample ID: Recharge Basin
Date Collected: 03/16/18 11:00
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	505144	03/22/18 10:08	SZD	TAL EDI
Total/NA	Prep	3510C			504508	03/19/18 09:12	MIS	TAL EDI
Total/NA	Analysis	8270D		1	504609	03/20/18 03:50	DAN	TAL EDI
Total/NA	Prep	3510C			504508	03/19/18 09:12	MIS	TAL EDI
Total/NA	Analysis	8270D SIM		1	504754	03/20/18 14:52	SK	TAL EDI
Total/NA	Prep	3510C			504710	03/20/18 08:11	ANM	TAL EDI
Total/NA	Analysis	8081B		1	505044	03/21/18 14:46	CDC	TAL EDI
Total/NA	Prep	3510C			504716	03/20/18 08:25	ANM	TAL EDI
Total/NA	Analysis	8082A		1	505006	03/21/18 14:28	CDC	TAL EDI
Dissolved	Filtration	FILTRATION			504395	03/18/18 19:00	GAE	TAL EDI
Dissolved	Prep	3010A			504514	03/19/18 09:51	PHP	TAL EDI
Dissolved	Analysis	6020A		2	504570	03/20/18 00:28	MDC	TAL EDI
Total/NA	Prep	3010A			504338	03/17/18 23:05	GAE	TAL EDI
Total/NA	Analysis	6020A		2	504570	03/19/18 18:34	MDC	TAL EDI
Dissolved	Filtration	FILTRATION			504532	03/19/18 12:27	RBS	TAL EDI
Dissolved	Prep	7470A			504535	03/19/18 12:43	RBS	TAL EDI
Dissolved	Analysis	7470A		1	504582	03/19/18 15:49	RBS	TAL EDI
Total/NA	Prep	7470A			504533	03/19/18 12:30	RBS	TAL EDI
Total/NA	Analysis	7470A		1	504582	03/19/18 15:14	RBS	TAL EDI
Total/NA	Analysis	7196A		1	504258	03/17/18 05:02	KYN	TAL EDI
Total/NA	Prep	9012B			505250	03/22/18 12:46	MBE	TAL EDI
Total/NA	Analysis	9012B		1	505599	03/23/18 11:26	HTV	TAL EDI

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			504821	03/20/18 13:56	OTS	TAL EDI
TCLP	Analysis	8260C		10	505151	03/22/18 10:07	SZD	TAL EDI
Total/NA	Analysis	Moisture		1	504259	03/17/18 06:50	BJP	TAL EDI

Client Sample ID: Ash Pit
Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2
Matrix: Solid
Percent Solids: 30.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			504287	03/17/18 09:47	DBM	TAL EDI
Total/NA	Analysis	8260C		1	504711	03/20/18 14:33	CJM	TAL EDI
Total/NA	Prep	3546			505109	03/21/18 21:20	ARA	TAL EDI
Total/NA	Analysis	8270D		1	505174	03/22/18 12:38	DAN	TAL EDI
Total/NA	Prep	3546			504832	03/20/18 14:42	RAR	TAL EDI
Total/NA	Analysis	8081B		1	505161	03/22/18 11:24	SAK	TAL EDI

Lab Chronicle

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-152136-1

Client Sample ID: Ash Pit

Date Collected: 03/16/18 09:45
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-2

Matrix: Solid
Percent Solids: 30.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			504830	03/20/18 14:37	RAR	TAL EDI
Total/NA	Analysis	8082A		1	505165	03/22/18 14:28	CDC	TAL EDI
Total/NA	Prep	3050B			504339	03/17/18 23:50	GAE	TAL EDI
Total/NA	Analysis	6010C		4	505273	03/22/18 13:21	CDC	TAL EDI
Total/NA	Prep	7471B			504419	03/19/18 04:20	TJS	TAL EDI
Total/NA	Analysis	7471B		1	504528	03/19/18 10:26	TJS	TAL EDI
Total/NA	Prep	3060A			504763	03/20/18 09:41	RAK	TAL EDI
Total/NA	Analysis	7196A		1	504841	03/20/18 15:00	RAK	TAL EDI
Total/NA	Prep	9012B			505037	03/21/18 09:37	IAA	TAL EDI
Total/NA	Analysis	9012B		1	505233	03/22/18 10:18	RAK	TAL EDI

Client Sample ID: Trip Blank

Date Collected: 03/16/18 11:30
Date Received: 03/16/18 20:20

Lab Sample ID: 460-152136-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	505144	03/22/18 09:43	SZD	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: PW Grosser Consulting
TestAmerica Job ID: 460-152136-1
Project/Site: Suffolk County Firematics Site

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Ash Pit	460-152136-2	112	119	110	100
	MB 460-504711/8	106	113	104	103
	LCS 460-504711/4	109	114	107	105
	LCSD 460-504711/5	107	110	105	105

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Ash Pit	460-152136-2	92	93	102	100
	MB 460-505151/7	90	91	100	98
	LB 460-504821/1-A	109	102	95	99
	LCS 460-505151/3	93	90	100	99
	LCSD 460-505151/4	93	90	101	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Recharge Basin	460-152136-1	123	113	102	107
Trip Blank	460-152136-3	111	103	91	97
	MB 460-504963/7	120	112	102	107
	MB 460-505144/7	113	104	94	99
	LCS 460-504963/3	105	99	94	100
	LCS 460-505144/3	109	102	93	102
	LCSD 460-504963/4	108	100	93	98
	LCSD 460-505144/4	109	102	92	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K80983.D

Lab ID: LCS 460-504711/4 Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.0200	0.0197	99	80-125	
1,1,2,2-Tetrachloroethane	0.0200	0.0213	107	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184	92	78-132	
1,1,2-Trichloroethane	0.0200	0.0210	105	76-124	
1,1-Dichloroethane	0.0200	0.0246	123	80-124	
1,1-Dichloroethene	0.0200	0.0190	95	79-132	
1,2,3-Trichlorobenzene	0.0200	0.0207	104	75-123	
1,2,4-Trichlorobenzene	0.0200	0.0212	106	74-124	
1,2,4-Trimethylbenzene	0.0200	0.0195	98	77-123	
1,2-Dibromo-3-Chloropropane	0.0200	0.0172	86	65-129	
1,2-Dichlorobenzene	0.0200	0.0195	98	80-121	
1,2-Dichloroethane	0.0200	0.0211	106	68-120	
1,2-Dichloropropane	0.0200	0.0237	119	77-124	
1,3,5-Trimethylbenzene	0.0200	0.0191	96	76-126	
1,3-Dichlorobenzene	0.0200	0.0196	98	79-124	
1,4-Dichlorobenzene	0.0200	0.0192	96	79-121	
2-Butanone (MEK)	0.100	0.0848	85	61-140	
2-Hexanone	0.100	0.109	109	78-120	
4-Methyl-2-pentanone (MIBK)	0.100	0.111	111	80-120	
Acetone	0.100	0.100	100	75-120	
Acrolein	0.300	0.350	117	11-143	
Acrylonitrile	0.200	0.252	126	77-120	*
Benzene	0.0200	0.0225	112	75-127	
Bromoform	0.0200	0.0174	87	19-150	
Bromomethane	0.0200	0.0190	95	59-136	
Carbon disulfide	0.0200	0.0222	111	74-130	
Carbon tetrachloride	0.0200	0.0183	92	77-138	
Chlorobenzene	0.0200	0.0193	96	80-120	
Chlorobromomethane	0.0200	0.0196	98	80-125	
Chlorodibromomethane	0.0200	0.0180	90	67-143	
Chloroethane	0.0200	0.0195	97	50-139	
Chloroform	0.0200	0.0220	110	80-122	
Chloromethane	0.0200	0.0217	108	66-128	
cis-1,2-Dichloroethene	0.0200	0.0214	107	80-123	
cis-1,3-Dichloropropene	0.0200	0.0217	108	75-124	
Cyclohexane	0.0200	0.0191	95	67-135	
Dichlorobromomethane	0.0200	0.0207	103	76-129	
Dichlorodifluoromethane	0.0200	0.0155	78	72-127	
Ethylbenzene	0.0200	0.0189	95	79-124	
Ethylene Dibromide	0.0200	0.0195	97	80-122	
Isopropylbenzene	0.0200	0.0187	93	80-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K80983.D

Lab ID: LCS 460-504711/4 Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Methyl acetate	0.100	0.132	132	73-123	*
Methyl tert-butyl ether	0.0200	0.0224	112	80-120	
Methylcyclohexane	0.0200	0.0191	96	71-137	
Methylene Chloride	0.0200	0.0219	110	79-128	
m-Xylene & p-Xylene	0.0200	0.0192	96	79-121	
n-Butylbenzene	0.0200	0.0200	100	75-131	
N-Propylbenzene	0.0200	0.0205	103	75-132	
o-Xylene	0.0200	0.0199	99	79-123	
sec-Butylbenzene	0.0200	0.0181	91	78-130	
Styrene	0.0200	0.0202	101	78-123	
tert-Butylbenzene	0.0200	0.0170	85	77-123	
Tetrachloroethene	0.0200	0.0180	90	73-130	
Toluene	0.0200	0.0202	101	75-122	
trans-1,2-Dichloroethene	0.0200	0.0209	104	80-129	
trans-1,3-Dichloropropene	0.0200	0.0213	107	72-121	
Trichloroethene	0.0200	0.0199	99	79-122	
Trichlorofluoromethane	0.0200	0.0156	78	68-136	
Vinyl chloride	0.0200	0.0190	95	70-134	
Xylenes, Total	0.0400	0.0391	98	79-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42879.D

Lab ID: LCS 460-504963/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.4	107	74-123	
1,2-Dichloroethane	20.0	20.4	102	76-121	
1,4-Dichlorobenzene	20.0	19.3	97	80-120	
2-Butanone (MEK)	100	111	111	64-120	
Benzene	20.0	19.1	96	77-121	
Carbon tetrachloride	20.0	21.1	106	70-132	
Chlorobenzene	20.0	20.5	103	80-120	
Chloroform	20.0	22.3	111	80-120	
Tetrachloroethene	20.0	19.9	99	78-122	
Trichloroethene	20.0	23.4	117	77-120	
Vinyl chloride	20.0	21.6	108	62-138	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42908.D

Lab ID: LCS 460-505144/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.1	111	75-125	
1,1,2,2-Tetrachloroethane	20.0	17.9	90	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4	97	59-150	
1,1,2-Trichloroethane	20.0	20.2	101	78-120	
1,1-Dichloroethane	20.0	21.3	106	77-123	
1,1-Dichloroethene	20.0	21.5	107	74-123	
1,2,3-Trichlorobenzene	20.0	19.6	98	78-131	
1,2,4-Trichlorobenzene	20.0	19.8	99	80-124	
1,2,4-Trimethylbenzene	20.0	18.8	94	78-122	
1,2-Dibromo-3-Chloropropane	20.0	19.9	99	55-134	
1,2-Dichlorobenzene	20.0	20.1	101	80-120	
1,2-Dichloroethane	20.0	21.3	106	76-121	
1,2-Dichloropropane	20.0	21.6	108	77-123	
1,3,5-Trimethylbenzene	20.0	19.0	95	80-120	
1,3-Dichlorobenzene	20.0	19.9	99	80-120	
1,4-Dichlorobenzene	20.0	19.1	95	80-120	
2-Butanone (MEK)	100	115	115	64-120	
2-Hexanone	100	110	110	71-125	
4-Methyl-2-pentanone (MIBK)	100	113	113	78-124	
Acetone	100	99.6	100	39-150	
Acrolein	40.0	82.4	206	10-150	*
Acrylonitrile	200	194	97	68-135	
Benzene	20.0	18.5	92	77-121	
Bromoform	20.0	19.6	98	53-120	
Bromomethane	20.0	29.8	149	10-150	
Carbon disulfide	20.0	19.9	99	69-133	
Carbon tetrachloride	20.0	21.9	110	70-132	
Chlorobenzene	20.0	20.5	103	80-120	
Chlorobromomethane	20.0	24.1	121	77-127	
Chlorodibromomethane	20.0	19.8	99	73-120	
Chloroethane	20.0	15.2	76	52-150	
Chloroform	20.0	22.7	114	80-120	
Chloromethane	20.0	20.7	103	56-131	
cis-1,2-Dichloroethene	20.0	22.5	112	80-120	
cis-1,3-Dichloropropene	20.0	19.2	96	77-120	
Cyclohexane	20.0	17.6	88	56-150	
Dichlorobromomethane	20.0	22.9	114	76-120	
Dichlorodifluoromethane	20.0	16.0	80	50-131	
Ethylbenzene	20.0	20.6	103	80-120	
Ethylene Dibromide	20.0	20.1	101	80-120	
Isopropylbenzene	20.0	20.3	102	80-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42908.D

Lab ID: LCS 460-505144/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methyl acetate	100	92.2	92	66-144	
Methyl tert-butyl ether	20.0	21.3	106	79-122	
Methylcyclohexane	20.0	18.6	93	61-145	
Methylene Chloride	20.0	20.7	103	77-123	
m-Xylene & p-Xylene	20.0	20.2	101	80-120	
n-Butylbenzene	20.0	19.0	95	72-133	
N-Propylbenzene	20.0	18.7	93	80-123	
o-Xylene	20.0	20.7	103	80-120	
sec-Butylbenzene	20.0	19.0	95	75-128	
Styrene	20.0	21.2	106	80-120	
tert-Butylbenzene	20.0	18.9	94	79-120	
Tetrachloroethene	20.0	19.6	98	78-122	
Toluene	20.0	19.3	96	80-120	
trans-1,2-Dichloroethene	20.0	22.4	112	79-120	
trans-1,3-Dichloropropene	20.0	19.7	98	76-120	
Trichloroethene	20.0	23.5	117	77-120	
Trichlorofluoromethane	20.0	22.3	112	71-143	
Vinyl chloride	20.0	21.9	109	62-138	
Xylenes, Total	40.0	40.9	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T04907.D

Lab ID: LCS 460-505151/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	20.4	102	74-123	
1,2-Dichloroethane	20.0	19.1	96	76-121	
1,4-Dichlorobenzene	20.0	23.1	116	80-120	
2-Butanone (MEK)	100	99.6	100	64-120	
Benzene	20.0	21.9	109	77-121	
Carbon tetrachloride	20.0	19.1	95	70-132	
Chlorobenzene	20.0	22.1	111	80-120	
Chloroform	20.0	19.7	99	80-120	
Tetrachloroethene	20.0	22.6	113	78-122	
Trichloroethene	20.0	20.0	100	77-120	
Vinyl chloride	20.0	20.5	102	62-138	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K80984.D

Lab ID: LCSD 460-504711/5 Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	0.0200	0.0196	98	1	30	80-125	
1,1,2,2-Tetrachloroethane	0.0200	0.0217	108	2	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0184	92	0	30	78-132	
1,1,2-Trichloroethane	0.0200	0.0207	103	2	30	76-124	
1,1-Dichloroethane	0.0200	0.0234	117	5	30	80-124	
1,1-Dichloroethene	0.0200	0.0190	95	0	30	79-132	
1,2,3-Trichlorobenzene	0.0200	0.0200	100	4	30	75-123	
1,2,4-Trichlorobenzene	0.0200	0.0204	102	4	30	74-124	
1,2,4-Trimethylbenzene	0.0200	0.0202	101	4	30	77-123	
1,2-Dibromo-3-Chloropropane	0.0200	0.0199	99	14	30	65-129	
1,2-Dichlorobenzene	0.0200	0.0194	97	1	30	80-121	
1,2-Dichloroethane	0.0200	0.0207	104	2	30	68-120	
1,2-Dichloropropane	0.0200	0.0233	116	2	30	77-124	
1,3,5-Trimethylbenzene	0.0200	0.0194	97	1	30	76-126	
1,3-Dichlorobenzene	0.0200	0.0193	96	2	30	79-124	
1,4-Dichlorobenzene	0.0200	0.0194	97	1	30	79-121	
2-Butanone (MEK)	0.100	0.0835	84	2	30	61-140	
2-Hexanone	0.100	0.107	107	2	30	78-120	
4-Methyl-2-pentanone (MIBK)	0.100	0.109	109	3	30	80-120	
Acetone	0.100	0.0945	94	6	30	75-120	
Acrolein	0.300	0.322	107	8	30	11-143	
Acrylonitrile	0.200	0.254	127	1	30	77-120	*
Benzene	0.0200	0.0225	113	0	30	75-127	
Bromoform	0.0200	0.0175	87	0	30	19-150	
Bromomethane	0.0200	0.0188	94	1	30	59-136	
Carbon disulfide	0.0200	0.0214	107	4	30	74-130	
Carbon tetrachloride	0.0200	0.0184	92	0	30	77-138	
Chlorobenzene	0.0200	0.0187	93	3	30	80-120	
Chlorobromomethane	0.0200	0.0191	95	3	30	80-125	
Chlorodibromomethane	0.0200	0.0178	89	1	30	67-143	
Chloroethane	0.0200	0.0194	97	0	30	50-139	
Chloroform	0.0200	0.0214	107	2	30	80-122	
Chloromethane	0.0200	0.0221	110	2	30	66-128	
cis-1,2-Dichloroethene	0.0200	0.0203	102	5	30	80-123	
cis-1,3-Dichloropropene	0.0200	0.0216	108	0	30	75-124	
Cyclohexane	0.0200	0.0195	97	2	30	67-135	
Dichlorobromomethane	0.0200	0.0201	101	3	30	76-129	
Dichlorodifluoromethane	0.0200	0.0158	79	2	30	72-127	
Ethylbenzene	0.0200	0.0195	97	3	30	79-124	
Ethylene Dibromide	0.0200	0.0199	100	2	30	80-122	
Isopropylbenzene	0.0200	0.0186	93	0	30	80-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K80984.D

Lab ID: LCSD 460-504711/5 Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methyl acetate	0.100	0.139	139	5	30	73-123	*
Methyl tert-butyl ether	0.0200	0.0217	108	3	30	80-120	
Methylcyclohexane	0.0200	0.0191	96	0	30	71-137	
Methylene Chloride	0.0200	0.0209	104	5	30	79-128	
m-Xylene & p-Xylene	0.0200	0.0191	96	0	30	79-121	
n-Butylbenzene	0.0200	0.0201	100	1	30	75-131	
N-Propylbenzene	0.0200	0.0213	107	4	30	75-132	
o-Xylene	0.0200	0.0199	100	0	30	79-123	
sec-Butylbenzene	0.0200	0.0189	94	4	30	78-130	
Styrene	0.0200	0.0199	99	2	30	78-123	
tert-Butylbenzene	0.0200	0.0174	87	2	30	77-123	
Tetrachloroethene	0.0200	0.0182	91	1	30	73-130	
Toluene	0.0200	0.0202	101	0	30	75-122	
trans-1,2-Dichloroethene	0.0200	0.0212	106	1	30	80-129	
trans-1,3-Dichloropropene	0.0200	0.0204	102	4	30	72-121	
Trichloroethene	0.0200	0.0195	98	2	30	79-122	
Trichlorofluoromethane	0.0200	0.0158	79	1	30	68-136	
Vinyl chloride	0.0200	0.0193	97	2	30	70-134	
Xylenes, Total	0.0400	0.0390	98	0	30	79-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42880.D

Lab ID: LCSD 460-504963/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.4	107	0	30	74-123	
1,2-Dichloroethane	20.0	20.7	103	1	30	76-121	
1,4-Dichlorobenzene	20.0	18.6	93	4	30	80-120	
2-Butanone (MEK)	100	111	111	0	30	64-120	
Benzene	20.0	18.5	92	3	30	77-121	
Carbon tetrachloride	20.0	20.4	102	3	30	70-132	
Chlorobenzene	20.0	20.2	101	2	30	80-120	
Chloroform	20.0	22.1	111	1	30	80-120	
Tetrachloroethene	20.0	19.2	96	3	30	78-122	
Trichloroethene	20.0	23.4	117	0	30	77-120	
Vinyl chloride	20.0	21.6	108	0	30	62-138	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42909.D

Lab ID: LCSD 460-505144/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.8	109	2	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	17.7	88	1	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9	95	2	30	59-150	
1,1,2-Trichloroethane	20.0	20.0	100	1	30	78-120	
1,1-Dichloroethane	20.0	21.3	107	0	30	77-123	
1,1-Dichloroethene	20.0	20.9	105	3	30	74-123	
1,2,3-Trichlorobenzene	20.0	19.9	99	2	30	78-131	
1,2,4-Trichlorobenzene	20.0	19.5	97	1	30	80-124	
1,2,4-Trimethylbenzene	20.0	18.7	94	0	30	78-122	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	10	30	55-134	
1,2-Dichlorobenzene	20.0	19.9	100	1	30	80-120	
1,2-Dichloroethane	20.0	21.4	107	0	30	76-121	
1,2-Dichloropropane	20.0	21.9	110	1	30	77-123	
1,3,5-Trimethylbenzene	20.0	18.9	94	1	30	80-120	
1,3-Dichlorobenzene	20.0	19.6	98	1	30	80-120	
1,4-Dichlorobenzene	20.0	18.9	94	1	30	80-120	
2-Butanone (MEK)	100	114	114	1	30	64-120	
2-Hexanone	100	111	111	1	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	112	112	1	30	78-124	
Acetone	100	99.3	99	0	30	39-150	
Acrolein	40.0	82.9	207	1	30	10-150	*
Acrylonitrile	200	197	99	2	30	68-135	
Benzene	20.0	18.4	92	1	30	77-121	
Bromoform	20.0	19.0	95	3	30	53-120	
Bromomethane	20.0	30.2	151	2	30	10-150	*
Carbon disulfide	20.0	19.7	99	1	30	69-133	
Carbon tetrachloride	20.0	20.6	103	6	30	70-132	
Chlorobenzene	20.0	20.4	102	1	30	80-120	
Chlorobromomethane	20.0	24.5	123	2	30	77-127	
Chlorodibromomethane	20.0	19.6	98	1	30	73-120	
Chloroethane	20.0	16.4	82	8	30	52-150	
Chloroform	20.0	22.5	113	1	30	80-120	
Chloromethane	20.0	19.7	98	5	30	56-131	
cis-1,2-Dichloroethene	20.0	22.4	112	1	30	80-120	
cis-1,3-Dichloropropene	20.0	18.7	93	3	30	77-120	
Cyclohexane	20.0	17.4	87	1	30	56-150	
Dichlorobromomethane	20.0	22.7	114	1	30	76-120	
Dichlorodifluoromethane	20.0	15.3	77	4	30	50-131	
Ethylbenzene	20.0	20.0	100	3	30	80-120	
Ethylene Dibromide	20.0	20.4	102	1	30	80-120	
Isopropylbenzene	20.0	19.8	99	2	30	80-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P42909.D

Lab ID: LCSD 460-505144/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methyl acetate	100	92.5	92	0	30	66-144	
Methyl tert-butyl ether	20.0	21.5	107	1	30	79-122	
Methylcyclohexane	20.0	18.4	92	1	30	61-145	
Methylene Chloride	20.0	21.1	106	2	30	77-123	
m-Xylene & p-Xylene	20.0	20.0	100	1	30	80-120	
n-Butylbenzene	20.0	18.5	92	2	30	72-133	
N-Propylbenzene	20.0	18.6	93	0	30	80-123	
o-Xylene	20.0	20.2	101	2	30	80-120	
sec-Butylbenzene	20.0	18.8	94	1	30	75-128	
Styrene	20.0	20.9	104	2	30	80-120	
tert-Butylbenzene	20.0	18.5	92	2	30	79-120	
Tetrachloroethene	20.0	19.3	97	2	30	78-122	
Toluene	20.0	19.1	95	1	30	80-120	
trans-1,2-Dichloroethene	20.0	22.2	111	1	30	79-120	
trans-1,3-Dichloropropene	20.0	19.3	96	2	30	76-120	
Trichloroethene	20.0	23.3	117	1	30	77-120	
Trichlorofluoromethane	20.0	21.6	108	3	30	71-143	
Vinyl chloride	20.0	21.1	105	4	30	62-138	
Xylenes, Total	40.0	40.3	101	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T04908.D

Lab ID: LCSD 460-505151/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.2	106	4	30	74-123	
1,2-Dichloroethane	20.0	19.6	98	3	30	76-121	
1,4-Dichlorobenzene	20.0	23.8	119	3	30	80-120	
2-Butanone (MEK)	100	104	104	5	30	64-120	
Benzene	20.0	22.9	114	5	30	77-121	
Carbon tetrachloride	20.0	20.3	101	6	30	70-132	
Chlorobenzene	20.0	23.0	115	4	30	80-120	
Chloroform	20.0	20.6	103	4	30	80-120	
Tetrachloroethene	20.0	23.6	118	4	30	78-122	
Trichloroethene	20.0	21.0	105	5	30	77-120	
Vinyl chloride	20.0	21.7	108	6	30	62-138	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: K80987.D Lab Sample ID: MB 460-504711/8

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

Instrument ID: CVOAMS9 Date Analyzed: 03/20/2018 12:07

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-504711/4	K80983.D	03/20/2018 10:28
	LCSD 460-504711/5	K80984.D	03/20/2018 10:52
Ash Pit	460-152136-2	K80993.D	03/20/2018 14:33

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P42883.D Lab Sample ID: MB 460-504963/7

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

Instrument ID: CVOAMS13 Date Analyzed: 03/21/2018 10:58

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-504963/3	P42879.D	03/21/2018 09:16
	LCSD 460-504963/4	P42880.D	03/21/2018 09:41
	LB 460-504821/1-A	P42885.D	03/21/2018 11:48

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: T04911.D Lab Sample ID: MB 460-505151/7

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

Instrument ID: CVOAMS15 Date Analyzed: 03/22/2018 09:16

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-505151/3	T04907.D	03/22/2018 07:34
	LCSD 460-505151/4	T04908.D	03/22/2018 07:59
Ash Pit	460-152136-2	T04913.D	03/22/2018 10:07

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P42912.D Lab Sample ID: MB 460-505144/7

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

Instrument ID: CVOAMS13 Date Analyzed: 03/22/2018 09:18

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-505144/3	P42908.D	03/22/2018 07:36
	LCSD 460-505144/4	P42909.D	03/22/2018 08:01
Trip Blank	460-152136-3	P42913.D	03/22/2018 09:43
Recharge Basin	460-152136-1	P42914.D	03/22/2018 10:08

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P42051.D BFB Injection Date: 03/05/2018

Instrument ID: CVOAMS13 BFB Injection Time: 22:08

Analysis Batch No.: 501512

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	82.7	
175	5.0 - 9.0 % of mass 174	5.6	(6.7) 1
176	95.0 - 101.0 % of mass 174	80.8	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-501512/3	P42053.D	03/05/2018	23:04
	STD05 460-501512/4	P42054.D	03/05/2018	23:30
	STD1 460-501512/5	P42055.D	03/05/2018	23:55
	STD5 460-501512/6	P42056.D	03/06/2018	00:28
	STD20 460-501512/7	P42057.D	03/06/2018	00:54
	STD50 460-501512/8	P42058.D	03/06/2018	01:19
	STD200 460-501512/9	P42059.D	03/06/2018	01:45
	STD500 460-501512/10	P42060.D	03/06/2018	02:10
	ICV 460-501512/14	P42064.D	03/06/2018	03:52

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P42877.D BFB Injection Date: 03/21/2018

Instrument ID: CVOAMS13 BFB Injection Time: 08:35

Analysis Batch No.: 504963

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.0	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	80.5	
175	5.0 - 9.0 % of mass 174	6.6	(8.2) 1
176	95.0 - 101.0 % of mass 174	78.0	(96.8) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-504963/2	P42878.D	03/21/2018	08:50
	LCS 460-504963/3	P42879.D	03/21/2018	09:16
	LCSD 460-504963/4	P42880.D	03/21/2018	09:41
	MB 460-504963/7	P42883.D	03/21/2018	10:58
	LB 460-504821/1-A	P42885.D	03/21/2018	11:48

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P42906.D BFB Injection Date: 03/22/2018

Instrument ID: CVOAMS13 BFB Injection Time: 06:41

Analysis Batch No.: 505144

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	88.4	
175	5.0 - 9.0 % of mass 174	7.1	(8.0) 1
176	95.0 - 101.0 % of mass 174	86.3	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.0) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-505144/2	P42907.D	03/22/2018	07:07
	LCS 460-505144/3	P42908.D	03/22/2018	07:36
	LCSD 460-505144/4	P42909.D	03/22/2018	08:01
	MB 460-505144/7	P42912.D	03/22/2018	09:18
Trip Blank	460-152136-3	P42913.D	03/22/2018	09:43
Recharge Basin	460-152136-1	P42914.D	03/22/2018	10:08

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: T04569.D BFB Injection Date: 03/13/2018

Instrument ID: CVOAMS15 BFB Injection Time: 08:43

Analysis Batch No.: 503116

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.0	
75	30.0 - 60.0 % of mass 95	41.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	50.0 - 120.00 % of mass 95	84.4	
175	5.0 - 9.0 % of mass 174	5.9	(7.0) 1
176	95.0 - 101.0 % of mass 174	80.6	(95.6) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-503116/2	T04570.D	03/13/2018	09:07
	STD5 460-503116/5	T04573.D	03/13/2018	10:23
	STD20 460-503116/6	T04574.D	03/13/2018	10:48
	STD50 460-503116/7	T04575.D	03/13/2018	11:14
	STD200 460-503116/8	T04576.D	03/13/2018	11:39
	STD500 460-503116/9	T04577.D	03/13/2018	12:05
	STD1 460-503116/13	T04581.D	03/13/2018	14:00
	ICV 460-503116/14	T04582.D	03/13/2018	14:42

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: T04905.D BFB Injection Date: 03/22/2018

Instrument ID: CVOAMS15 BFB Injection Time: 06:41

Analysis Batch No.: 505151

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.4	
75	30.0 - 60.0 % of mass 95	41.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	5.7	(6.9) 1
176	95.0 - 101.0 % of mass 174	79.5	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-505151/2	T04906.D	03/22/2018	07:07
	LCS 460-505151/3	T04907.D	03/22/2018	07:34
	LCSD 460-505151/4	T04908.D	03/22/2018	07:59
	MB 460-505151/7	T04911.D	03/22/2018	09:16
Ash Pit	460-152136-2	T04913.D	03/22/2018	10:07

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: K80593.D BFB Injection Date: 03/09/2018

Instrument ID: CVOAMS9 BFB Injection Time: 21:58

Analysis Batch No.: 502604

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	1.3	(1.3) 1
174	50.0 - 120.00 % of mass 95	96.9	
175	5.0 - 9.0 % of mass 174	7.8	(8.0) 1
176	95.0 - 101.0 % of mass 174	95.8	(98.9) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-502604/2	K80594.D	03/09/2018	22:30
	STD5 460-502604/3	K80595.D	03/09/2018	22:54
	STD20 460-502604/4	K80596.D	03/09/2018	23:18
	STD50 460-502604/5	K80597.D	03/09/2018	23:43
	STD200 460-502604/6	K80598.D	03/10/2018	00:07
	STD500 460-502604/7	K80599.D	03/10/2018	00:31
	ICV 460-502604/13	K80605.D	03/10/2018	02:57

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: K80980.D BFB Injection Date: 03/20/2018

Instrument ID: CVOAMS9 BFB Injection Time: 08:50

Analysis Batch No.: 504711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	1.6	(1.7) 1
174	50.0 - 120.00 % of mass 95	89.3	
175	5.0 - 9.0 % of mass 174	5.9	(6.6) 1
176	95.0 - 101.0 % of mass 174	85.8	(96.1) 1
177	5.0 - 9.0 % of mass 176	4.4	(5.1) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-504711/3	K80982.D	03/20/2018	10:04
	LCS 460-504711/4	K80983.D	03/20/2018	10:28
	LCSD 460-504711/5	K80984.D	03/20/2018	10:52
	MB 460-504711/8	K80987.D	03/20/2018	12:07
Ash Pit	460-152136-2	K80993.D	03/20/2018	14:33

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-501512/7 Date Analyzed: 03/06/2018 00:54

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42057.D Heated Purge: (Y/N) N

Calibration ID: 66836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		331262	2.07	331604	3.11	396164	3.69
UPPER LIMIT		662524	2.57	663208	3.61	792328	4.19
LOWER LIMIT		165631	1.57	165802	2.61	198082	3.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-501512/14		339999	2.07	339671	3.11	406131	3.69

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-501512/7 Date Analyzed: 03/06/2018 00:54

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42057.D Heated Purge: (Y/N) N

Calibration ID: 66836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		34347	4.57	486942	7.11	288506	10.65
UPPER LIMIT		68694	5.07	973884	7.61	577012	11.15
LOWER LIMIT		17174	4.07	243471	6.61	144253	10.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-501512/14		34827	4.57	493226	7.11	293162	10.65

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504963/2 Date Analyzed: 03/21/2018 08:50

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42878.D Heated Purge: (Y/N) N

Calibration ID: 66836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		229389	2.07	204934	3.11	276680	3.69
UPPER LIMIT		458778	2.57	409868	3.61	553360	4.19
LOWER LIMIT		114695	1.57	102467	2.61	138340	3.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-504963/3		242189	2.07	211740	3.11	278682	3.69
LCSD 460-504963/4		245702	2.07	211805	3.11	277406	3.69
MB 460-504963/7		208537	2.07	179749	3.10	237312	3.69
LB 460-504821/1-A		228439	2.07	193612	3.10	260734	3.69

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504963/2 Date Analyzed: 03/21/2018 08:50

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42878.D Heated Purge: (Y/N) N

Calibration ID: 66836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		26321	4.57	402580	7.10	254363	10.65
UPPER LIMIT		52642	5.07	805160	7.60	508726	11.15
LOWER LIMIT		13161	4.07	201290	6.60	127182	10.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-504963/3		29005	4.57	402665	7.10	252293	10.65
LCSD 460-504963/4		27331	4.57	408338	7.11	257311	10.65
MB 460-504963/7		23262	4.57	349063	7.11	211579	10.65
LB 460-504821/1-A		25867	4.57	373791	7.11	230211	10.65

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505144/2 Date Analyzed: 03/22/2018 07:07

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42907.D Heated Purge: (Y/N) N

Calibration ID: 66836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		202904	2.07	176078	3.11	251972	3.69
UPPER LIMIT		405808	2.57	352156	3.61	503944	4.19
LOWER LIMIT		101452	1.57	88039	2.61	125986	3.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-505144/3		222519	2.08	189336	3.11	258427	3.69
LCSD 460-505144/4		228698	2.08	194286	3.11	259344	3.69
MB 460-505144/7		198457	2.07	170591	3.10	245995	3.69
460-152136-3	Trip Blank	211239	2.07	177031	3.10	246201	3.69
460-152136-1	Recharge Basin	178589	2.07	156521	3.10	222304	3.69

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505144/2 Date Analyzed: 03/22/2018 07:07

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P42907.D Heated Purge: (Y/N) N

Calibration ID: 66836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		24632	4.57	381989	7.11	242678	10.65
UPPER LIMIT		49264	5.07	763978	7.61	485356	11.15
LOWER LIMIT		12316	4.07	190995	6.61	121339	10.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-505144/3		25695	4.57	384535	7.11	246081	10.65
LCSD 460-505144/4		25002	4.57	391381	7.11	247347	10.65
MB 460-505144/7		23145	4.57	365158	7.11	227173	10.65
460-152136-3	Trip Blank	24001	4.56	369304	7.11	225263	10.65
460-152136-1	Recharge Basin	21764	4.57	329099	7.11	204453	10.65

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-503116/6 Date Analyzed: 03/13/2018 10:48

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T04574.D Heated Purge: (Y/N) N

Calibration ID: 66946

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		57724	2.16	447319	3.03	485688	4.10
UPPER LIMIT		115448	2.66	894638	3.53	971376	4.60
LOWER LIMIT		28862	1.66	223660	2.53	242844	3.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-503116/14		59608	2.16	486159	3.03	566435	4.10

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-503116/6 Date Analyzed: 03/13/2018 10:48

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T04574.D Heated Purge: (Y/N) N

Calibration ID: 66946

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		39551	4.83	416655	7.82	224867	11.51
UPPER LIMIT		79102	5.33	833310	8.32	449734	12.01
LOWER LIMIT		19776	4.33	208328	7.32	112434	11.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-503116/14		42831	4.82	453553	7.82	237718	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505151/2 Date Analyzed: 03/22/2018 07:07

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T04906.D Heated Purge: (Y/N) N

Calibration ID: 66946

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		55921	2.16	469161	3.03	535278	4.10
UPPER LIMIT		111842	2.66	938322	3.53	1070556	4.60
LOWER LIMIT		27961	1.66	234581	2.53	267639	3.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-505151/3		62928	2.17	509213	3.03	541836	4.10
LCSD 460-505151/4		61676	2.17	498306	3.03	547857	4.10
MB 460-505151/7		53350	2.16	445489	3.03	533466	4.10
460-152136-2	Ash Pit	50646	2.16	437937	3.03	513858	4.10

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505151/2 Date Analyzed: 03/22/2018 07:07

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T04906.D Heated Purge: (Y/N) N

Calibration ID: 66946

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39707	4.82	421435	7.82	224123	11.50
UPPER LIMIT		79414	5.32	842870	8.32	448246	12.00
LOWER LIMIT		19854	4.32	210718	7.32	112062	11.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-505151/3		44316	4.83	426778	7.82	228354	11.50
LCSD 460-505151/4		43285	4.83	430968	7.82	233852	11.51
MB 460-505151/7		39059	4.82	406021	7.82	215916	11.51
460-152136-2	Ash Pit	37772	4.82	391193	7.82	207954	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-502604/4 Date Analyzed: 03/09/2018 23:18

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K80596.D Heated Purge: (Y/N) Y

Calibration ID: 66902

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		232760	3.36	168321	4.46	449855	5.58
UPPER LIMIT		465520	3.86	336642	4.96	899710	6.08
LOWER LIMIT		116380	2.86	84161	3.96	224928	5.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-502604/13		293732	3.36	201938	4.46	494244	5.58

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD20 460-502604/4 Date Analyzed: 03/09/2018 23:18

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K80596.D Heated Purge: (Y/N) Y

Calibration ID: 66902

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		23174	6.28	372429	9.07	222833	11.52
UPPER LIMIT		46348	6.78	744858	9.57	445666	12.02
LOWER LIMIT		11587	5.78	186215	8.57	111417	11.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-502604/13		23126	6.29	400313	9.07	239030	11.52

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504711/3 Date Analyzed: 03/20/2018 10:04

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K80982.D Heated Purge: (Y/N) Y

Calibration ID: 66902

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		257006	3.35	192054	4.46	407246	5.58
UPPER LIMIT		514012	3.85	384108	4.96	814492	6.08
LOWER LIMIT		128503	2.85	96027	3.96	203623	5.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-504711/4		233798	3.36	176563	4.46	390439	5.58
LCSD 460-504711/5		271068	3.38	206675	4.46	416304	5.58
MB 460-504711/8		286810	3.36	221668	4.46	415779	5.58
460-152136-2	Ash Pit	220040	3.36	180280	4.46	365422	5.58

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504711/3 Date Analyzed: 03/20/2018 10:04

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K80982.D Heated Purge: (Y/N) Y

Calibration ID: 66902

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		22166	6.28	336946	9.07	202284	11.52
UPPER LIMIT		44332	6.78	673892	9.57	404568	12.02
LOWER LIMIT		11083	5.78	168473	8.57	101142	11.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-504711/4		21169	6.28	325145	9.07	196456	11.52
LCSD 460-504711/5		21649	6.28	338255	9.07	199728	11.52
MB 460-504711/8		19832	6.28	340942	9.08	203145	11.52
460-152136-2	Ash Pit	13136	6.28	289380	9.07	153051	11.52

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P42914.D

Analysis Method: 8260C | Date Collected: 03/16/2018 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 10:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	0.23	U	1.0	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	U	5.0	1.1
107-02-8	Acrolein	0.88	U *	4.0	0.88
107-13-1	Acrylonitrile	1.0	U	2.0	1.0
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U *	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P42914.D

Analysis Method: 8260C | Date Collected: 03/16/2018 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 10:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
104-51-8	n-Butylbenzene	0.27	U	1.0	0.27
103-65-1	N-Propylbenzene	0.29	U	1.0	0.29
95-47-6	o-Xylene	0.32	U	1.0	0.32
135-98-8	sec-Butylbenzene	0.31	U	1.0	0.31
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.28	U	1.0	0.28
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		74-132
460-00-4	4-Bromofluorobenzene	107		77-124
1868-53-7	Dibromofluoromethane (Surr)	123		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin Lab Sample ID: 460-152136-1

Matrix: Water Lab File ID: P42914.D

Analysis Method: 8260C Date Collected: 03/16/2018 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2018 10:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 505144 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42914.D
Lims ID: 460-152136-B-1
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 22-Mar-2018 10:08:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-152136-B-1
Misc. Info.: 460-0069112-009
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 16:16:24 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 22-Mar-2018 10:31:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 TBA-d9 (IS)	65	2.067	2.074	-0.007	0	178589	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	111046	61.3	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	156521	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	116012	56.6	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	222304	50.0	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	21764	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	100	483155	51.1	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	82	329099	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	93	147729	53.5	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	204453	50.0	

Reagents:

8260ISNEW_00121 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent

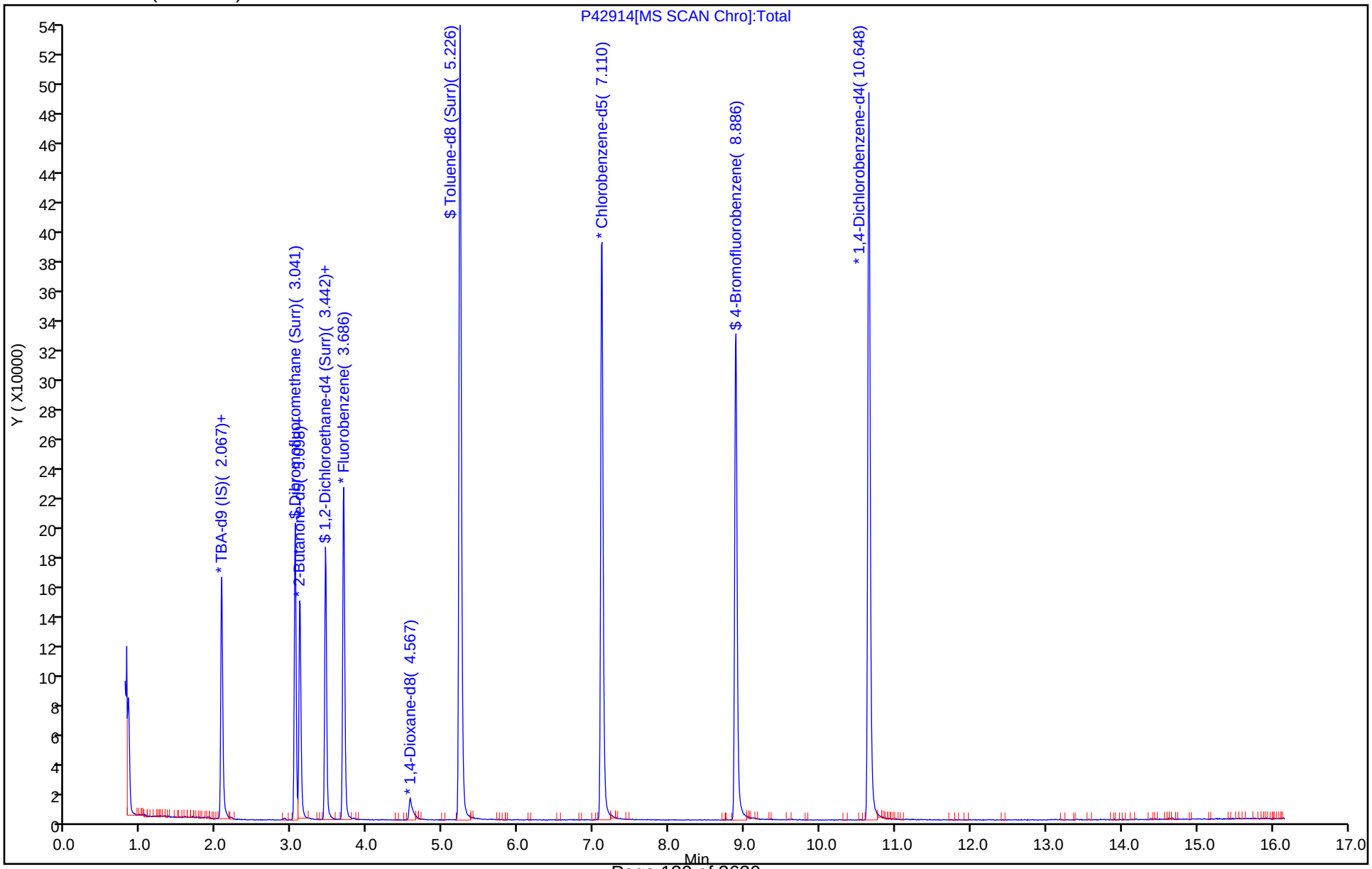
Report Date: 22-Mar-2018 16:16:26 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42914.D

Injection Date:	22-Mar-2018 10:08:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-152136-B-1	Lab Sample ID:	460-152136-1	Worklist Smp#:	9
Client ID:	Recharge Basin				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



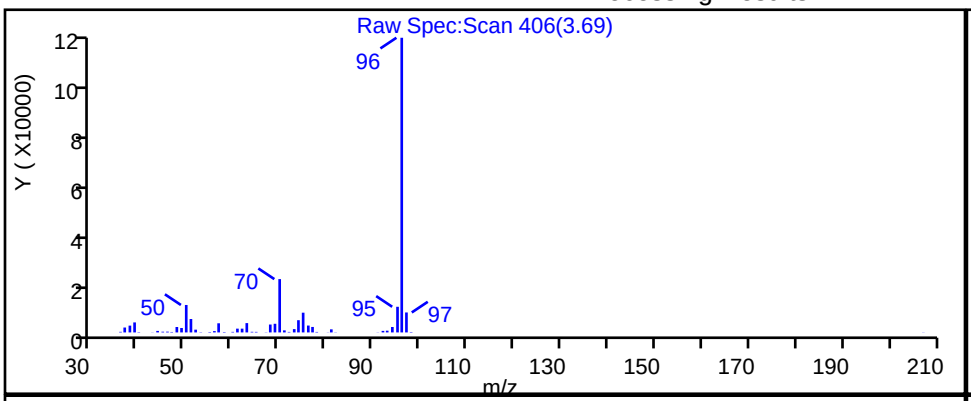
User Disabled Compound Report

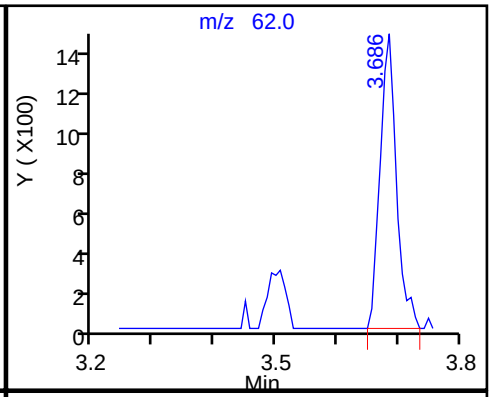
TestAmerica Edison

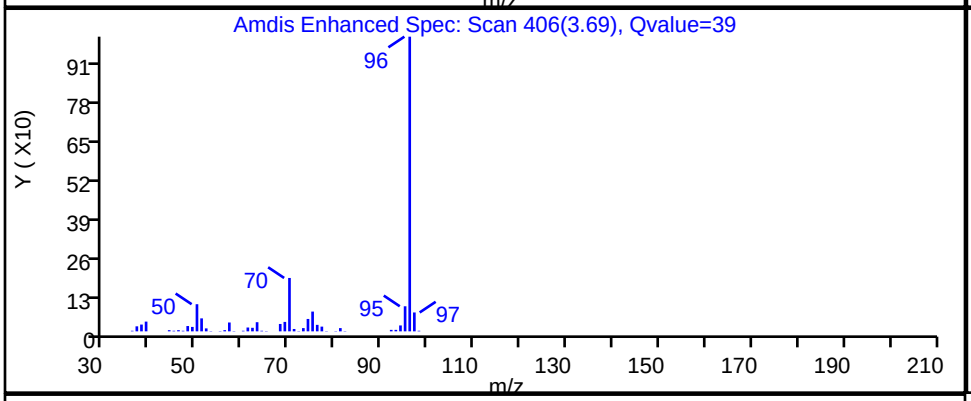
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42914.D		
Injection Date:	22-Mar-2018 10:08:30	Instrument ID:	CVOAMS13
Lims ID:	460-152136-B-1	Lab Sample ID:	460-152136-1
Client ID:	Recharge Basin		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

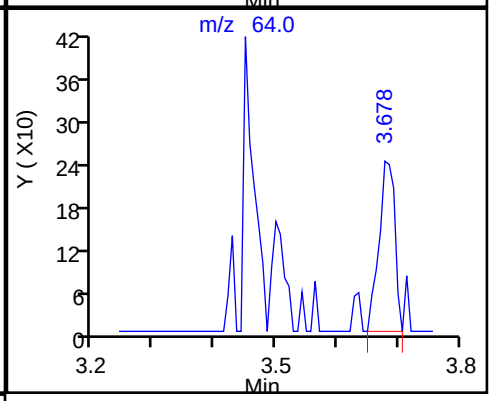
59 1,2-Dichloroethane, CAS: 107-06-2

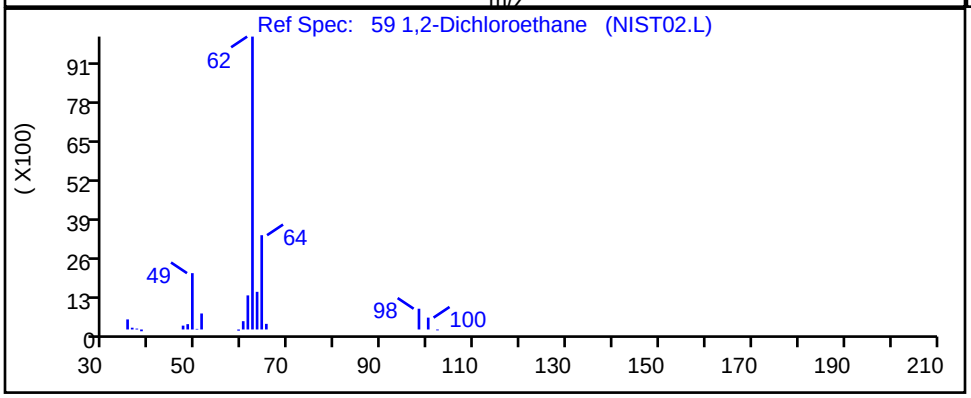
Processing Results











RT	Mass	Response	Amount
3.69	62.00	2702	0.995744
3.68	64.00	437	

Reviewer: desais, 22-Mar-2018 10:31:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

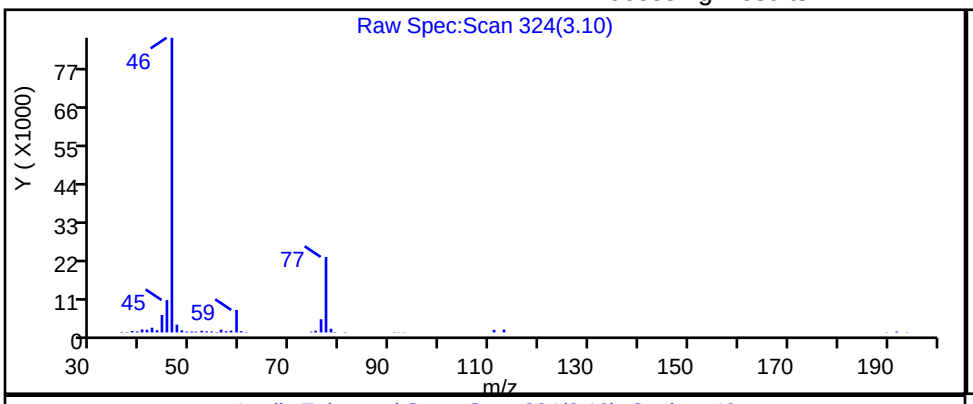
User Disabled Compound Report

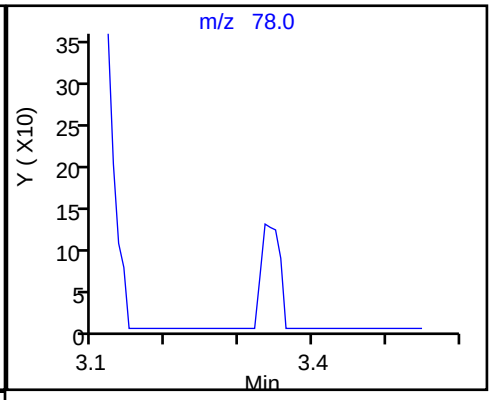
TestAmerica Edison

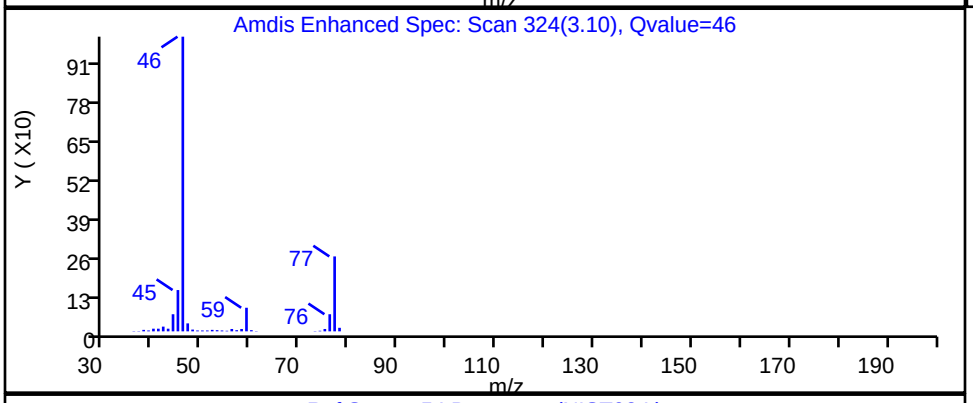
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42914.D				
Injection Date:	22-Mar-2018 10:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-152136-B-1	Lab Sample ID:	460-152136-1		
Client ID:	Recharge Basin				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

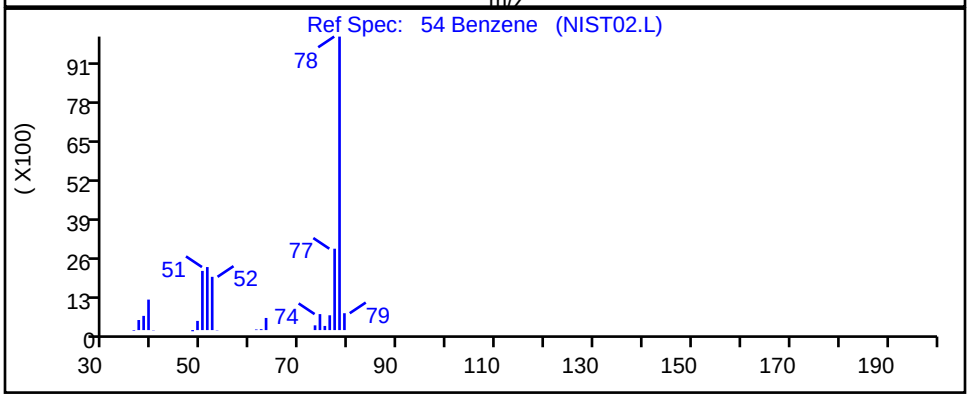
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.10	78.00	1756	0.169408

Reviewer: desais, 22-Mar-2018 10:31:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

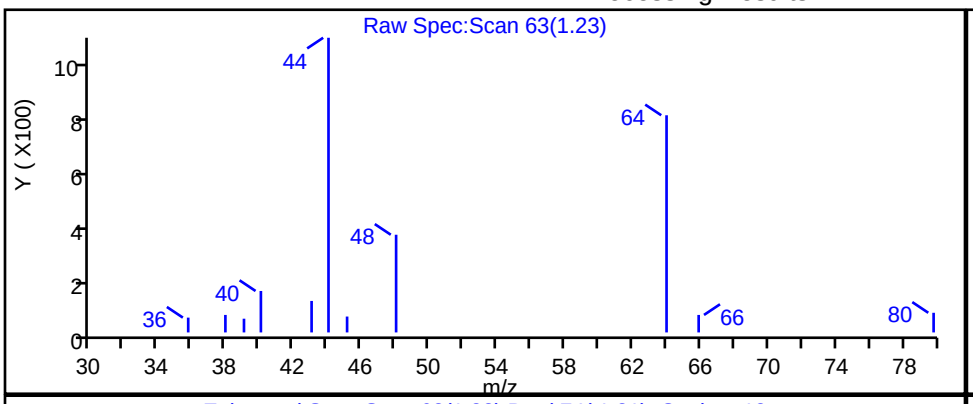
User Disabled Compound Report

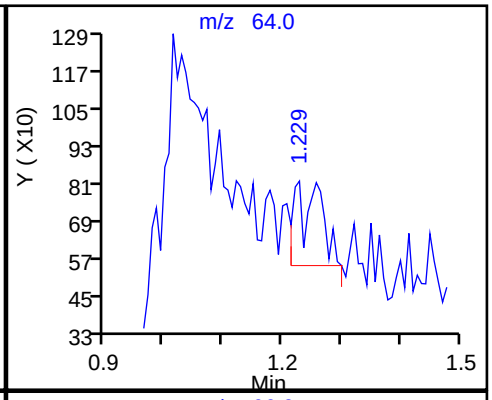
TestAmerica Edison

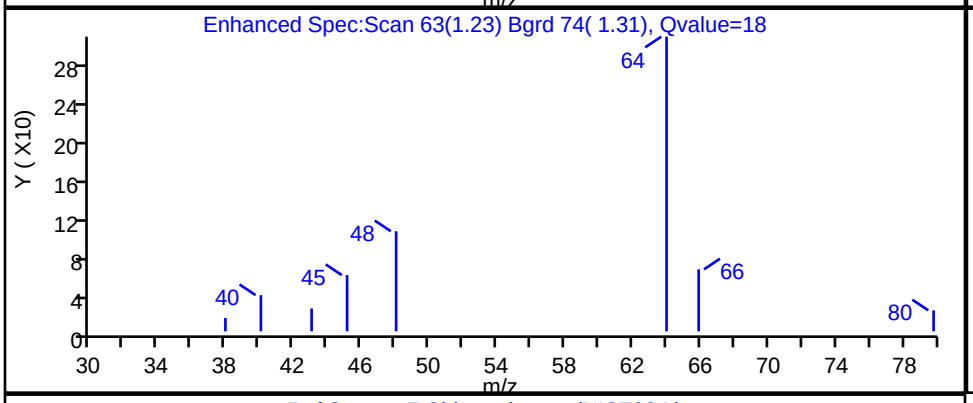
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42914.D		
Injection Date:	22-Mar-2018 10:08:30	Instrument ID:	CVOAMS13
Lims ID:	460-152136-B-1	Lab Sample ID:	460-152136-1
Client ID:	Recharge Basin		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

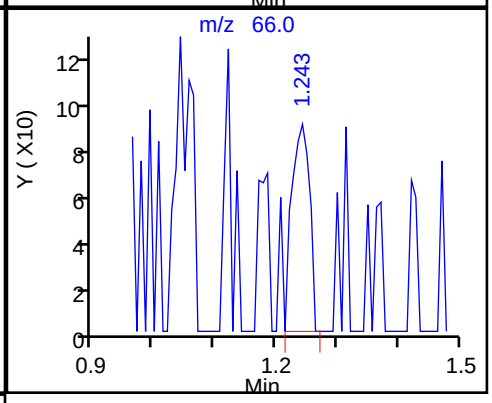
7 Chloroethane, CAS: 75-00-3

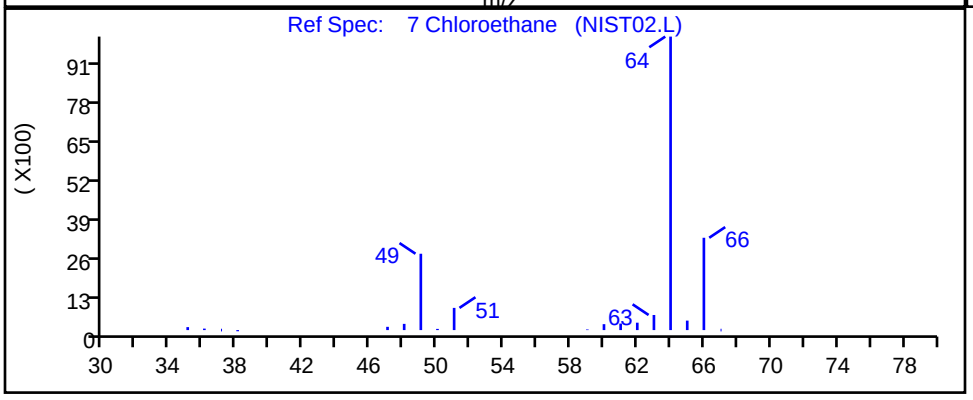
Processing Results











RT	Mass	Response	Amount
1.23	64.00	824	0.480336
1.24	66.00	173	

Reviewer: desais, 22-Mar-2018 10:31:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: K80993.D

Analysis Method: 8260C | Date Collected: 03/16/2018 09:45

Sample wt/vol: 3.612(g) | Date Analyzed: 03/20/2018 14:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 70.0 | Level: (low/med) Low

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.0011	U	0.0046	0.0011
79-34-5	1,1,2,2-Tetrachloroethane	0.00099	U	0.0046	0.00099
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0014	U	0.0046	0.0014
79-00-5	1,1,2-Trichloroethane	0.00082	U	0.0046	0.00082
75-34-3	1,1-Dichloroethane	0.00095	U	0.0046	0.00095
75-35-4	1,1-Dichloroethene	0.0010	U	0.0046	0.0010
87-61-6	1,2,3-Trichlorobenzene	0.00084	U	0.0046	0.00084
120-82-1	1,2,4-Trichlorobenzene	0.00043	U	0.0046	0.00043
95-63-6	1,2,4-Trimethylbenzene	0.00043	U	0.0046	0.00043
96-12-8	1,2-Dibromo-3-Chloropropane	0.0021	U	0.0046	0.0021
95-50-1	1,2-Dichlorobenzene	0.00067	U	0.0046	0.00067
107-06-2	1,2-Dichloroethane	0.0015	J	0.0046	0.0014
78-87-5	1,2-Dichloropropane	0.0020	U	0.0046	0.0020
108-67-8	1,3,5-Trimethylbenzene	0.00053	U	0.0046	0.00053
541-73-1	1,3-Dichlorobenzene	0.00073	U	0.0046	0.00073
106-46-7	1,4-Dichlorobenzene	0.00046	U	0.0046	0.00046
78-93-3	2-Butanone (MEK)	0.0051	U	0.023	0.0051
591-78-6	2-Hexanone	0.0036	U	0.023	0.0036
108-10-1	4-Methyl-2-pentanone (MIBK)	0.0031	U	0.023	0.0031
67-64-1	Acetone	0.054	B	0.023	0.018
107-02-8	Acrolein	0.13	U	0.46	0.13
107-13-1	Acrylonitrile	0.0076	U *	0.046	0.0076
71-43-2	Benzene	0.014		0.0046	0.0012
75-25-2	Bromoform	0.0020	U	0.0046	0.0020
74-83-9	Bromomethane	0.0022	U	0.0046	0.0022
75-15-0	Carbon disulfide	0.0012	U	0.0046	0.0012
56-23-5	Carbon tetrachloride	0.00084	U	0.0046	0.00084
108-90-7	Chlorobenzene	0.00082	U	0.0046	0.00082
74-97-5	Chlorobromomethane	0.0013	U	0.0046	0.0013
124-48-1	Chlorodibromomethane	0.00090	U	0.0046	0.00090
75-00-3	Chloroethane	0.0024	U	0.0046	0.0024
67-66-3	Chloroform	0.0015	U	0.0046	0.0015
74-87-3	Chloromethane	0.0020	U	0.0046	0.0020
156-59-2	cis-1,2-Dichloroethene	0.00070	U	0.0046	0.00070
10061-01-5	cis-1,3-Dichloropropene	0.0013	U	0.0046	0.0013

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: K80993.D

Analysis Method: 8260C | Date Collected: 03/16/2018 09:45

Sample wt/vol: 3.612(g) | Date Analyzed: 03/20/2018 14:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 70.0 | Level: (low/med) Low

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.0010	U	0.0046	0.0010
75-27-4	Dichlorobromomethane	0.0012	U	0.0046	0.0012
75-71-8	Dichlorodifluoromethane	0.0016	U	0.0046	0.0016
100-41-4	Ethylbenzene	0.00092	U	0.0046	0.00092
106-93-4	Ethylene Dibromide	0.00083	U	0.0046	0.00083
98-82-8	Isopropylbenzene	0.00058	U	0.0046	0.00058
79-20-9	Methyl acetate	0.020	U *	0.023	0.020
1634-04-4	Methyl tert-butyl ether	0.00058	U	0.0046	0.00058
108-87-2	Methylcyclohexane	0.00074	U	0.0046	0.00074
75-09-2	Methylene Chloride	0.0013	J B	0.0046	0.00075
179601-23-1	m-Xylene & p-Xylene	0.00098	J	0.0046	0.00080
104-51-8	n-Butylbenzene	0.00066	U	0.0046	0.00066
103-65-1	N-Propylbenzene	0.00081	U	0.0046	0.00081
95-47-6	o-Xylene	0.00049	J	0.0046	0.00044
135-98-8	sec-Butylbenzene	0.00041	U	0.0046	0.00041
100-42-5	Styrene	0.00057	U	0.0046	0.00057
98-06-6	tert-Butylbenzene	0.00057	U	0.0046	0.00057
127-18-4	Tetrachloroethene	0.00066	U	0.0046	0.00066
108-88-3	Toluene	0.0029	U	0.0046	0.0029
156-60-5	trans-1,2-Dichloroethene	0.0011	U	0.0046	0.0011
10061-02-6	trans-1,3-Dichloropropene	0.0012	U	0.0046	0.0012
79-01-6	Trichloroethene	0.00067	U	0.0046	0.00067
75-69-4	Trichlorofluoromethane	0.0019	U	0.0046	0.0019
75-01-4	Vinyl chloride	0.0025	U	0.0046	0.0025
1330-20-7	Xylenes, Total	0.0015	J	0.0092	0.0012

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		78-135
460-00-4	4-Bromofluorobenzene	100		67-126
1868-53-7	Dibromofluoromethane (Surr)	112		61-149
2037-26-5	Toluene-d8 (Surr)	110		73-121

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit Lab Sample ID: 460-152136-2

Matrix: Solid Lab File ID: K80993.D

Analysis Method: 8260C Date Collected: 03/16/2018 09:45

Sample wt/vol: 3.612(g) Date Analyzed: 03/20/2018 14:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 70.0 Level: (low/med) Low

Analysis Batch No.: 504711 Units: mg/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D
Lims ID: 460-152136-C-2-A
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 20-Mar-2018 14:33:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-152136-C-2-A
Misc. Info.: 460-0069025-014
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Mar-2018 17:47:51 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: starzecm Date: 20-Mar-2018 17:47:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.004	3.004	0.000	83	9853	11.7	
* 25 TBA-d9 (IS)	65	3.364	3.352	0.012	0	220040	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	30	779	0.2799	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	180280	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	97	140303	55.8	
54 Benzene	78	5.290	5.290	0.000	94	25320	3.07	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.302	5.303	-0.001	0	147534	59.3	
59 1,2-Dichloroethane	62	5.388	5.382	0.006	17	1074	0.3245	
* 61 Fluorobenzene	96	5.583	5.577	0.006	99	365422	50.0	
* 67 1,4-Dioxane-d8	96	6.284	6.278	0.006	0	13136	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.265	7.266	-0.001	98	459081	54.9	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	85	289380	50.0	
93 m-Xylene & p-Xylene	106	9.338	9.351	-0.013	0	864	0.2126	
95 o-Xylene	106	9.814	9.814	0.000	38	444	0.1055	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	93	142322	50.0	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	94	153051	50.0	
S 131 Xylenes, Total	100				0		0.3181	

Reagents:

8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

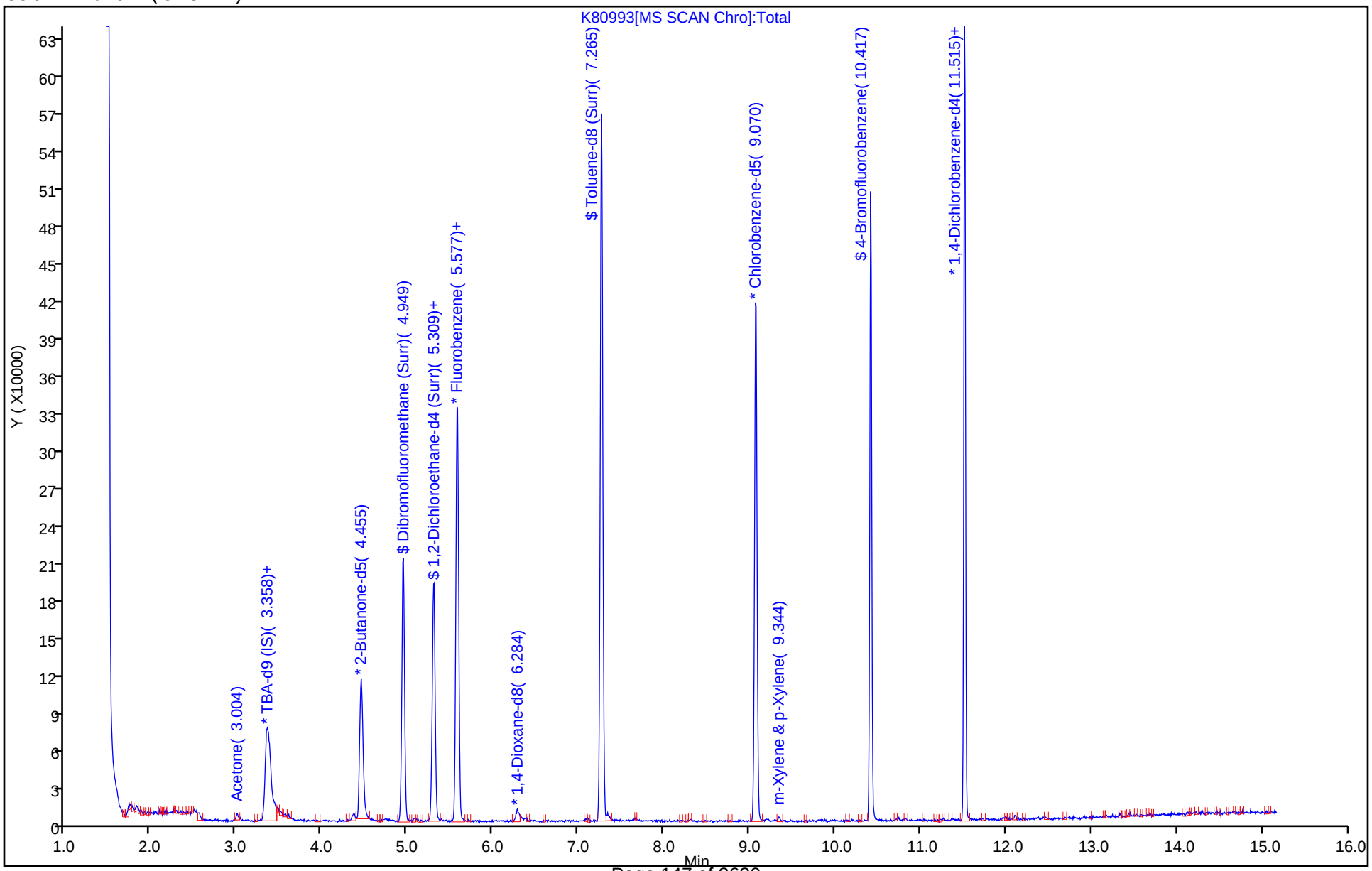
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2	Worklist Smp#:	14
Client ID:	Ash Pit				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



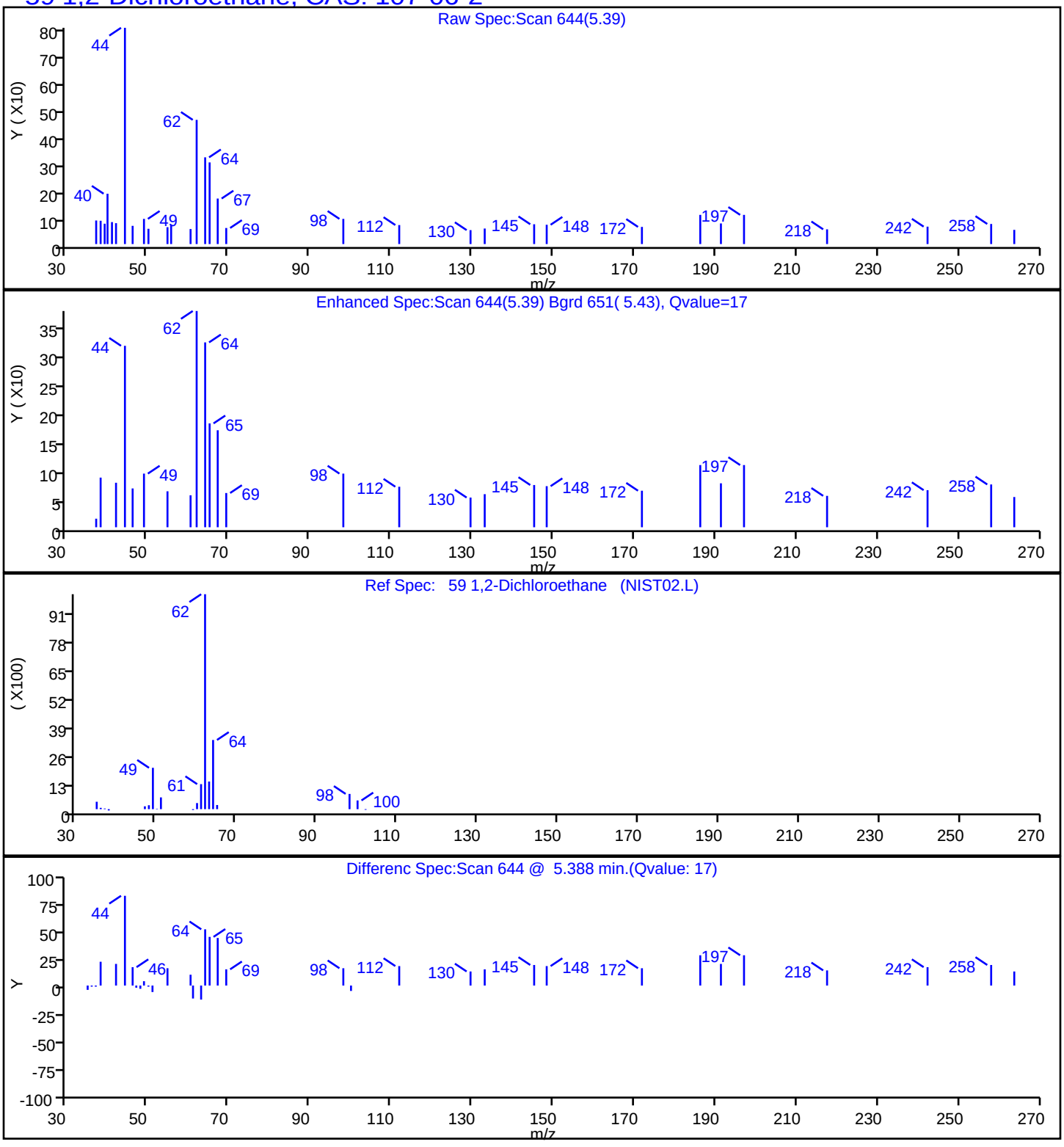
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9		
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

59 1,2-Dichloroethane, CAS: 107-06-2



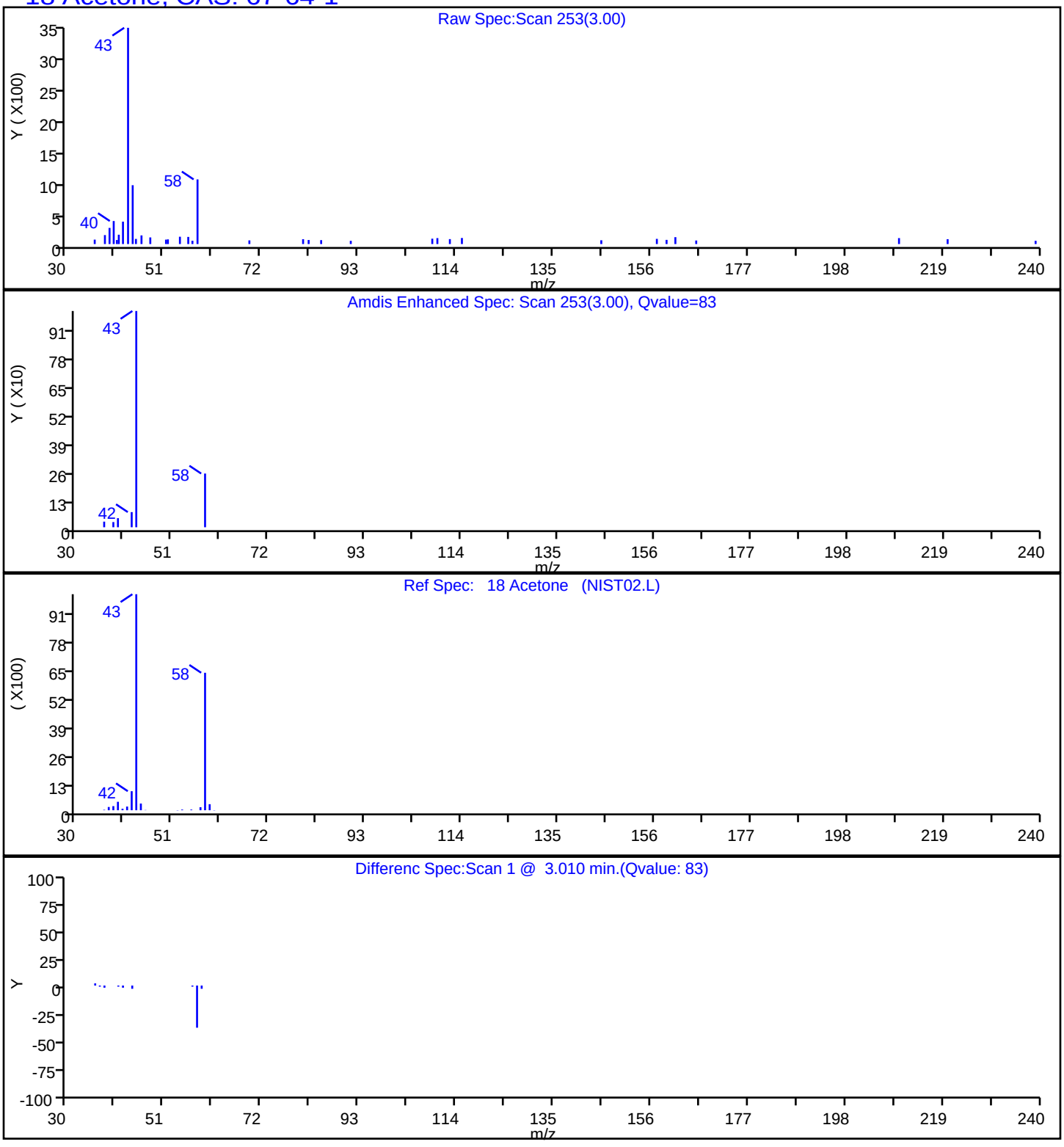
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

18 Acetone, CAS: 67-64-1



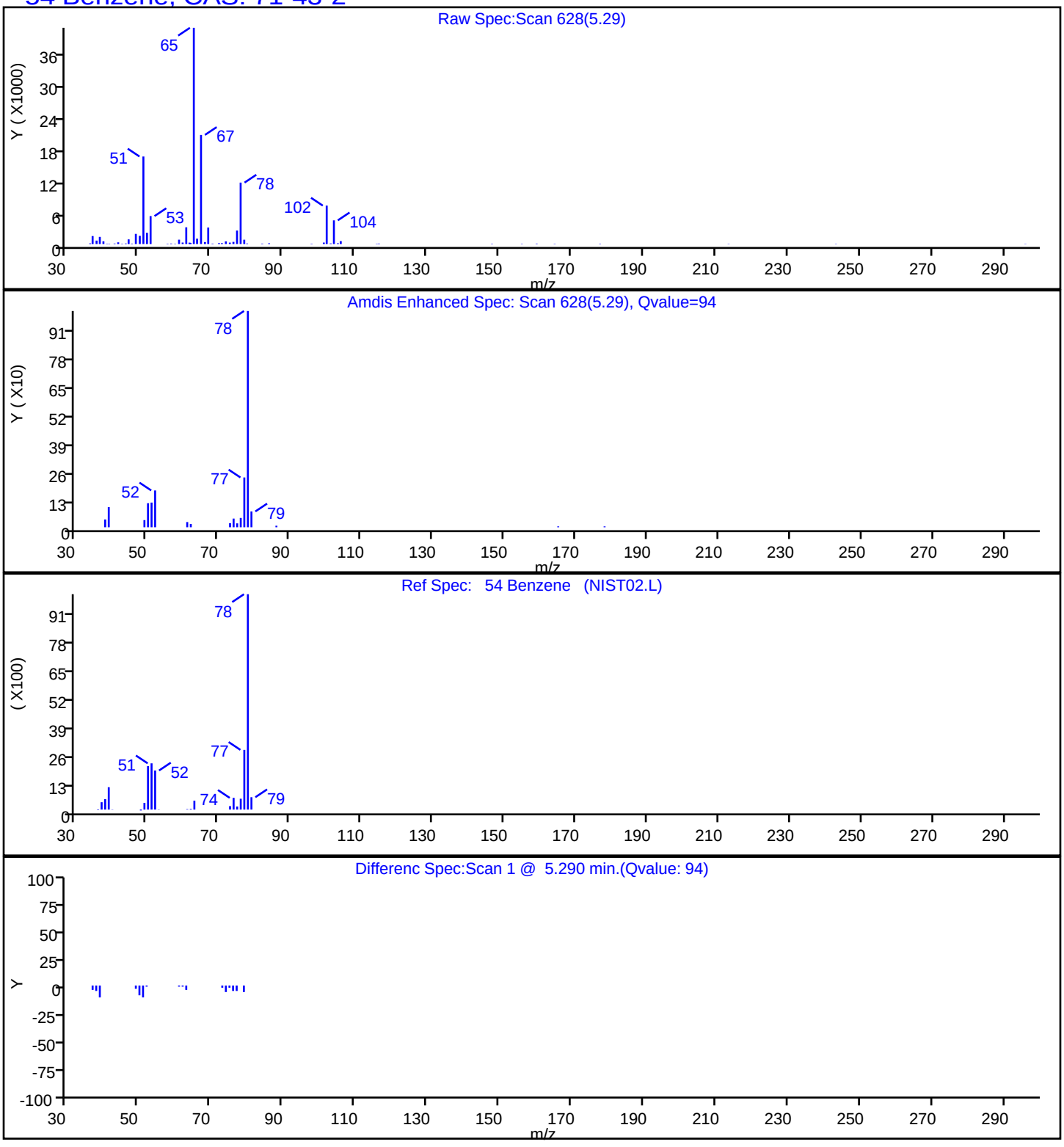
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

54 Benzene, CAS: 71-43-2



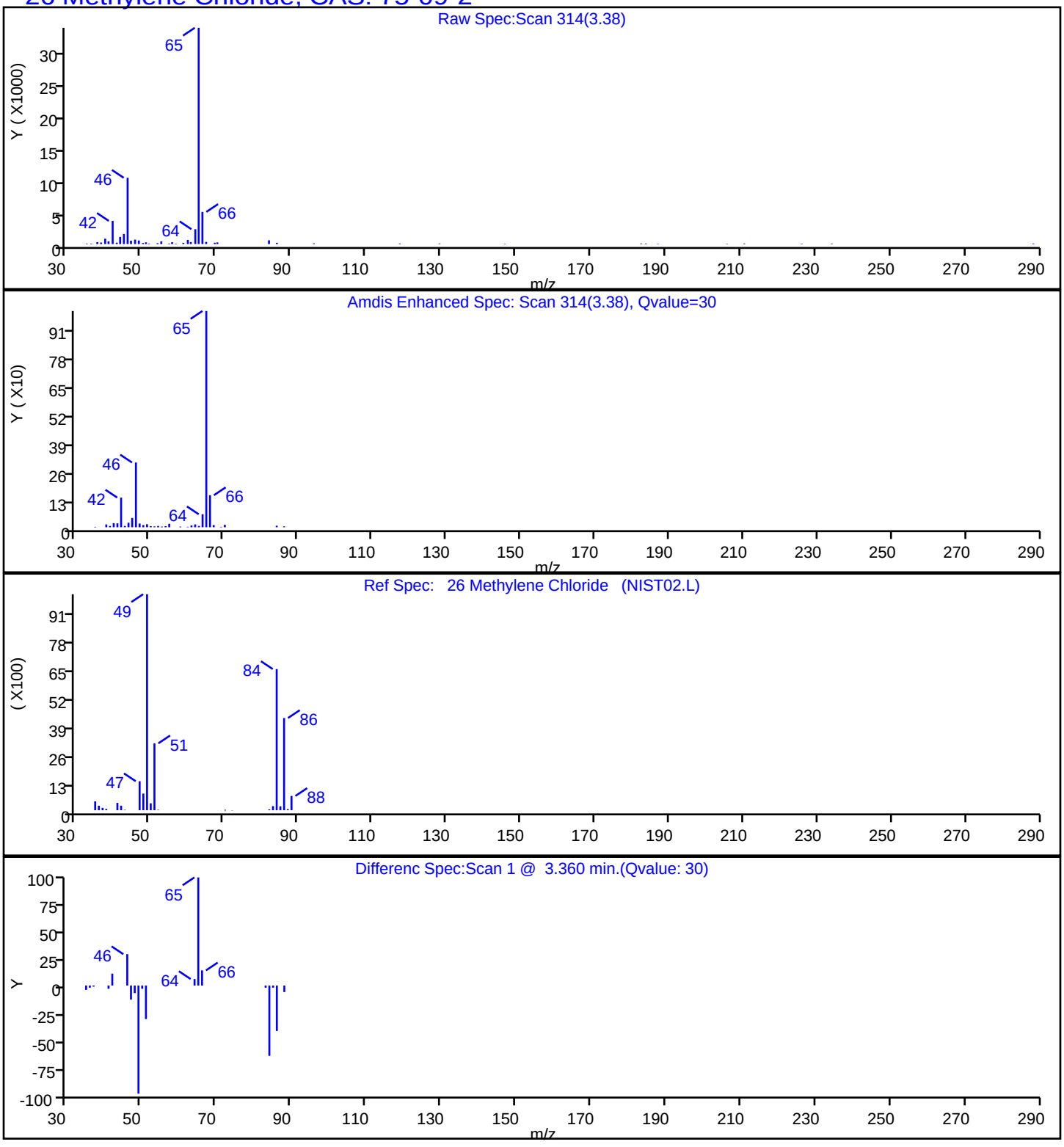
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

26 Methylene Chloride, CAS: 75-09-2

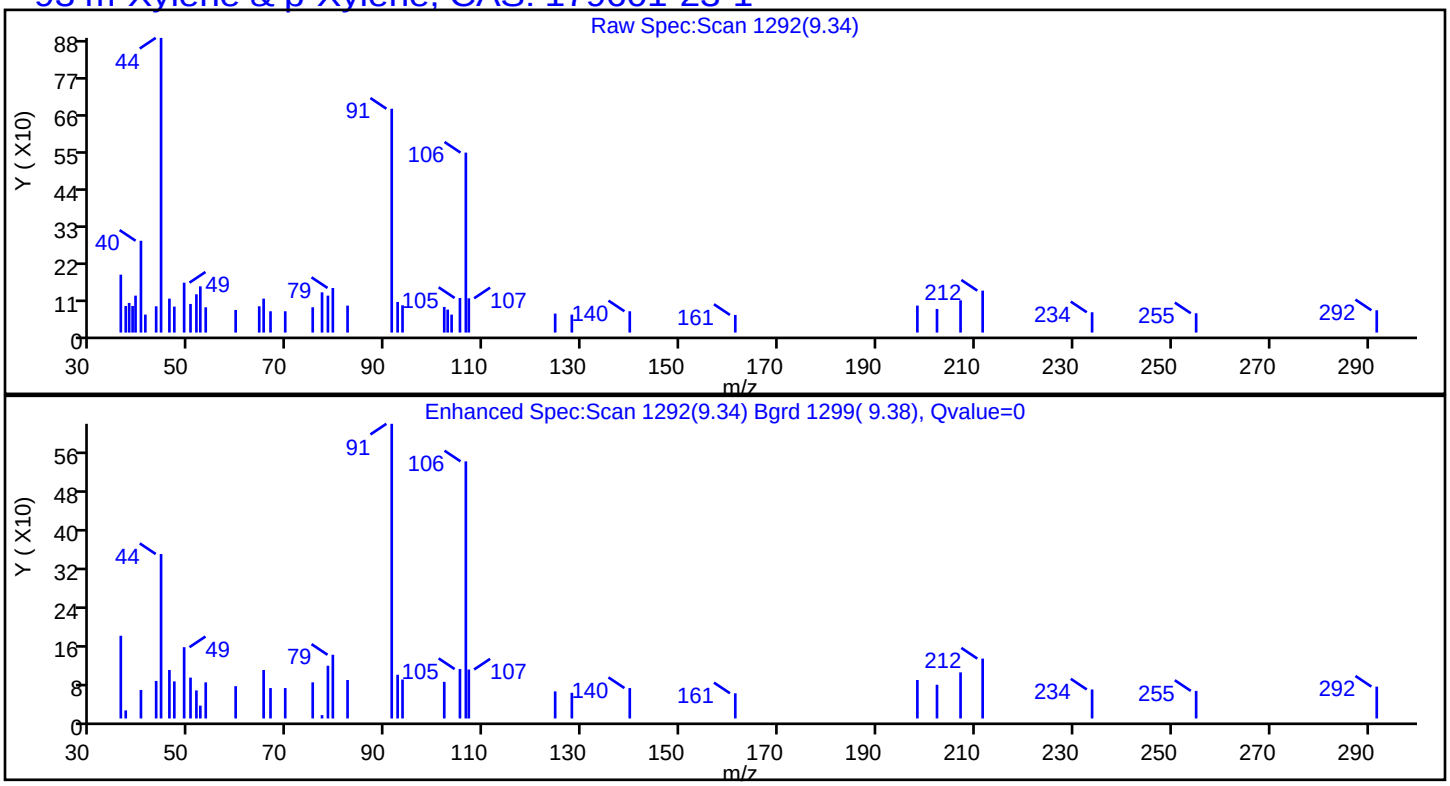


Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D				
Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9		
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

93 m-Xylene & p-Xylene, CAS: 179601-23-1



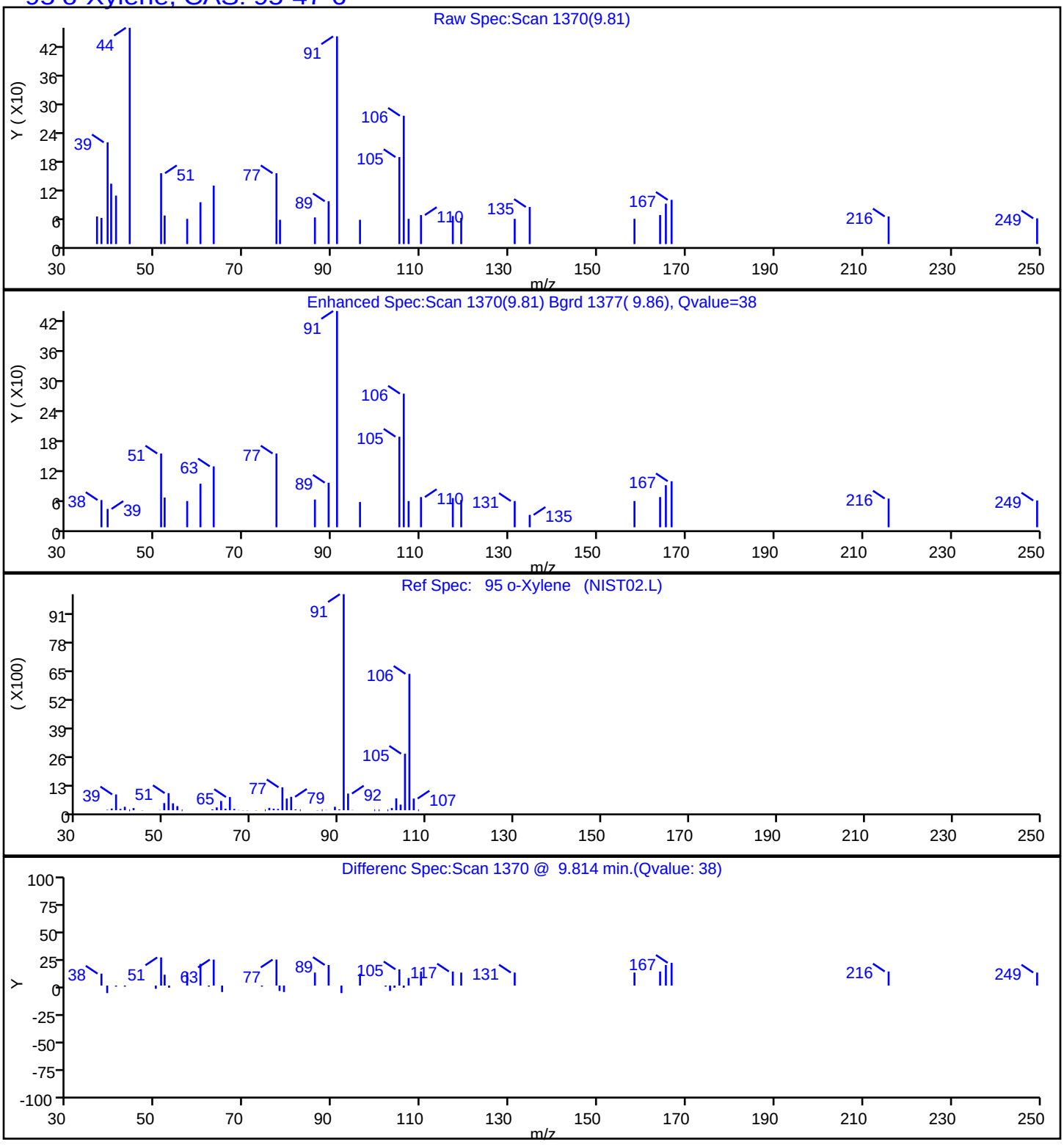
Report Date: 20-Mar-2018 17:48:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D

Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9		
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

95 o-Xylene, CAS: 95-47-6



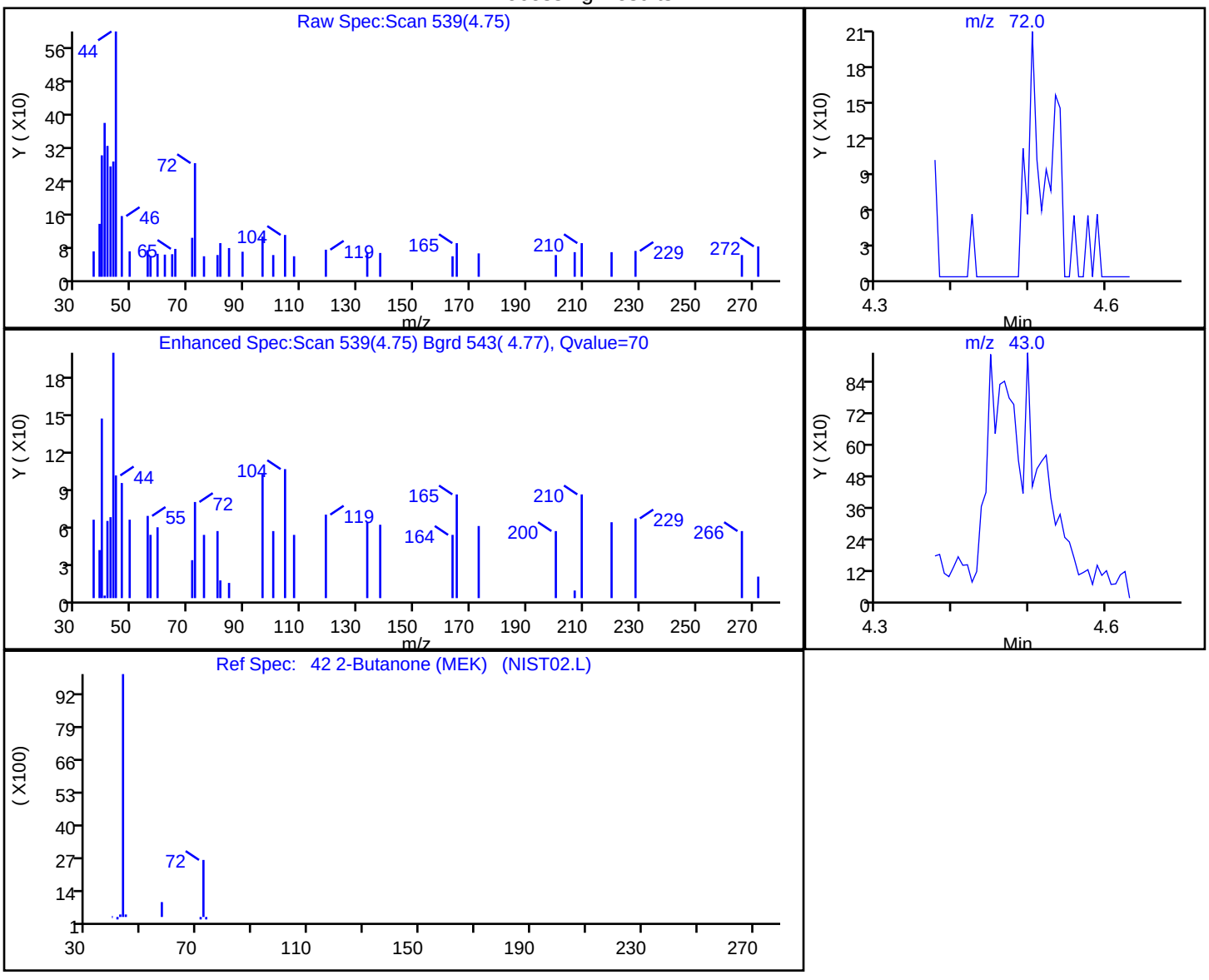
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D		
Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

42 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.75	72.00	488	1.498938
4.75	43.00	249	

Reviewer: starzecm, 20-Mar-2018 17:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

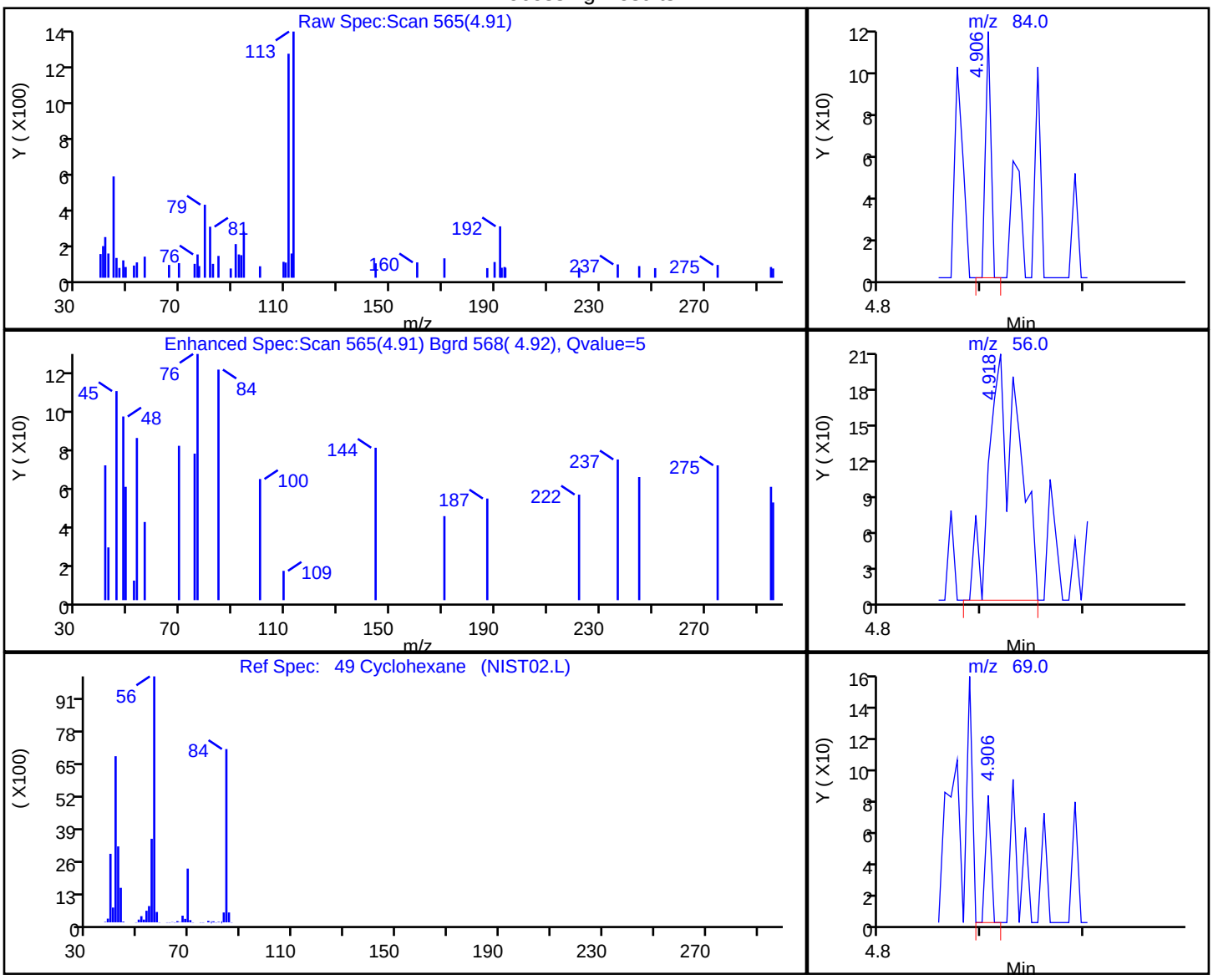
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D				
Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9		
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.91	84.00	43	0.362322
4.92	56.00	414	
4.91	69.00	29	

Reviewer: starzecm, 20-Mar-2018 17:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

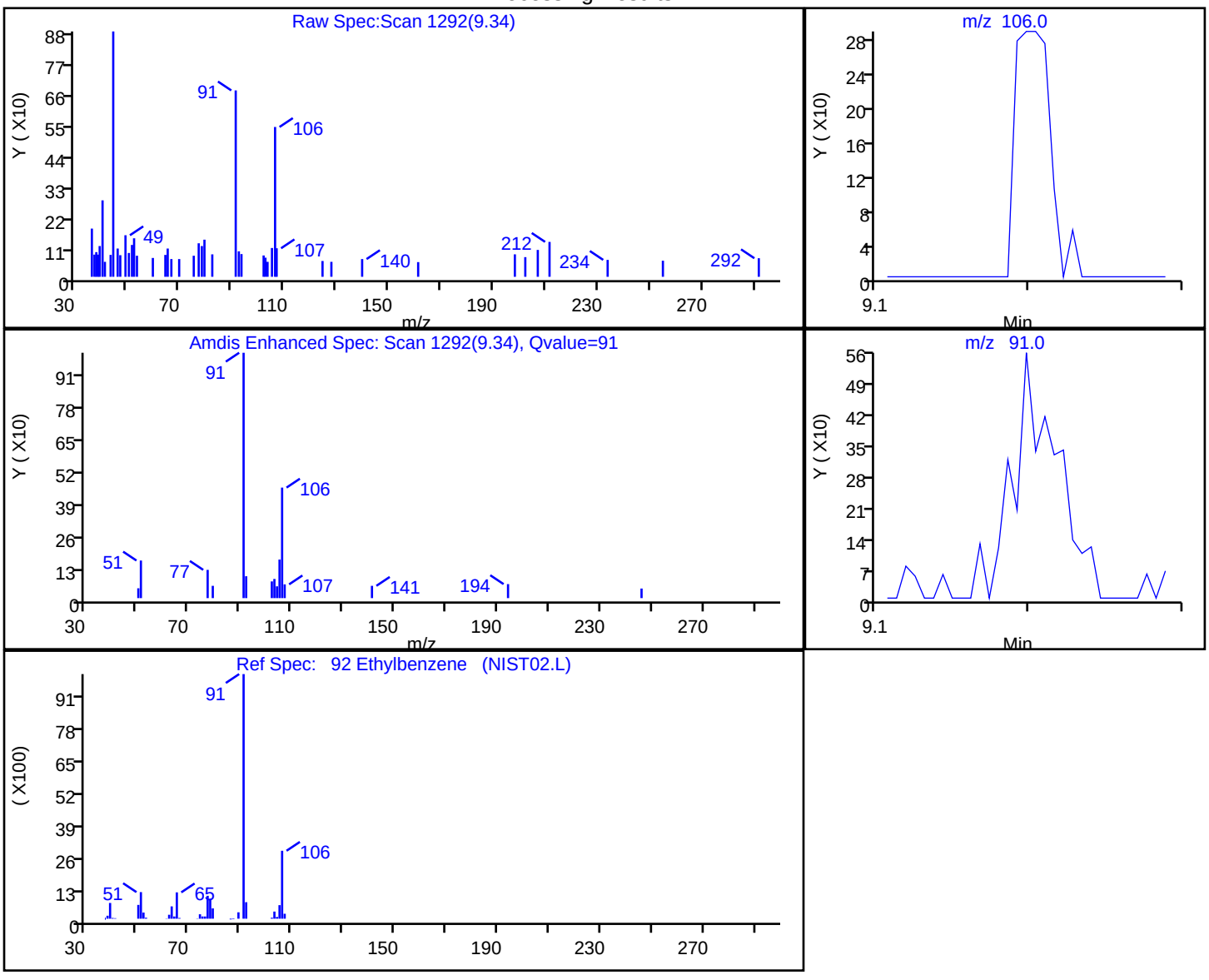
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D		
Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.34	106.00	670	0.201809
9.34	91.00	1853	

Reviewer: starzecm, 20-Mar-2018 17:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

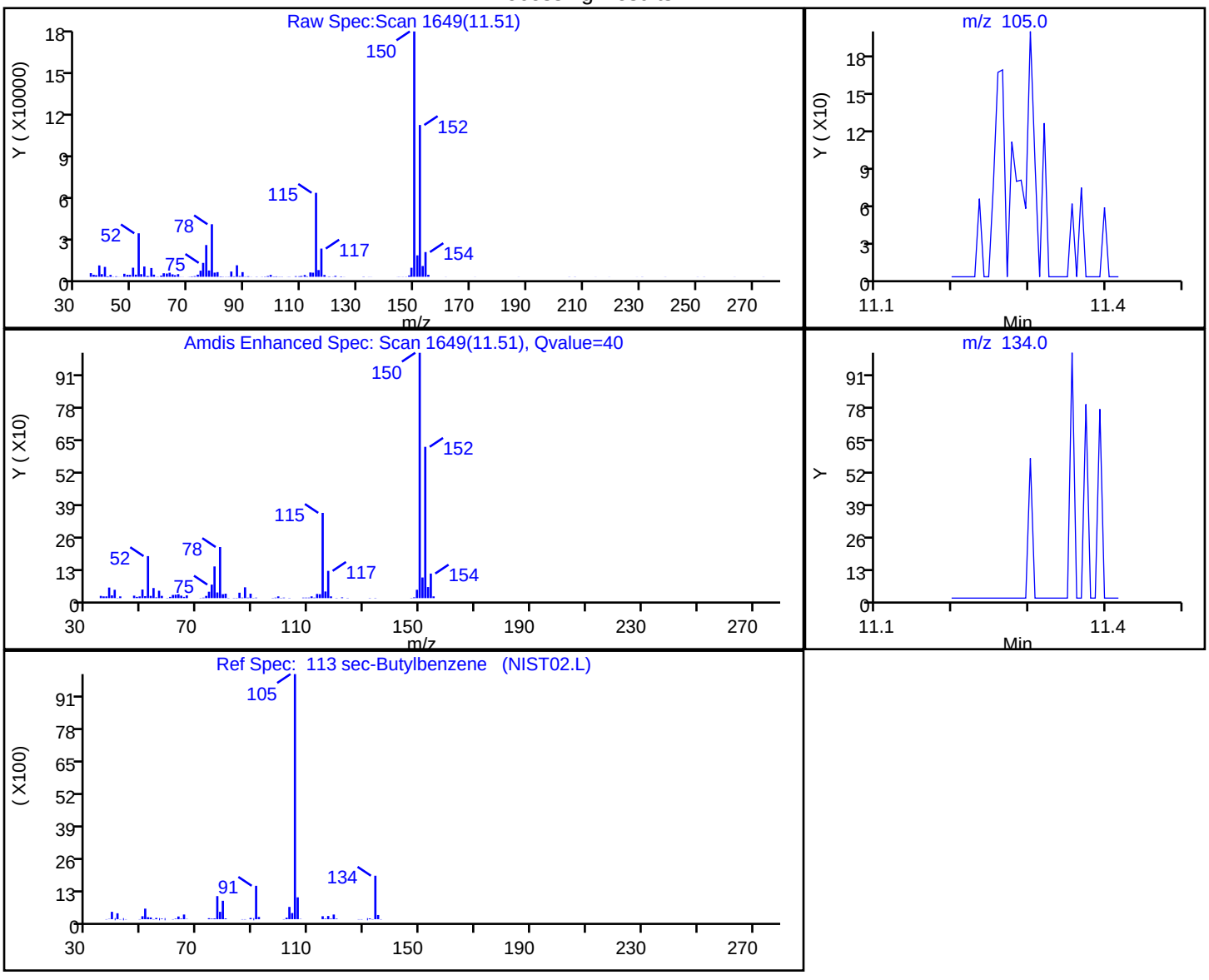
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80993.D		
Injection Date:	20-Mar-2018 14:33:30	Instrument ID:	CVOAMS9
Lims ID:	460-152136-C-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

113 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
11.51	105.00	64	0.410851
11.51	134.00	289	

Reviewer: starzecm, 20-Mar-2018 17:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid (TCLP) | Lab File ID: T04913.D

Analysis Method: 8260C | Date Collected: 03/16/2018 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 10:07

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 505151 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	3.4	U	10	3.4
107-06-2	1,2-Dichloroethane	2.5	U	10	2.5
106-46-7	1,4-Dichlorobenzene	3.3	U	10	3.3
78-93-3	2-Butanone (MEK)	22	U	50	22
71-43-2	Benzene	1.9	J	10	1.9
56-23-5	Carbon tetrachloride	3.3	U	10	3.3
108-90-7	Chlorobenzene	2.4	U	10	2.4
67-66-3	Chloroform	2.2	U	10	2.2
127-18-4	Tetrachloroethene	3.6	U	10	3.6
79-01-6	Trichloroethene	2.2	U	10	2.2
75-01-4	Vinyl chloride	2.0	U	10	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		74-132
460-00-4	4-Bromofluorobenzene	100		77-124
1868-53-7	Dibromofluoromethane (Surr)	92		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04913.D
Lims ID: 460-152136-G-2-A
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 10:07:17 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 460-152136-G-2-A
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 18:10:41 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK032

First Level Reviewer: baronm Date: 22-Mar-2018 18:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	1.846	1.846	0.000	76	7082	5.94	a
26 Methylene Chloride	84	2.119	2.119	0.000	92	17985	5.66	
* 27 TBA-d9 (IS)	66	2.155	2.161	-0.006	97	50646	1000.0	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	437937	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	119178	46.1	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.770	0.005	85	136825	46.5	
56 Benzene	78	3.828	3.823	0.005	33	1910	0.1855	
* 61 Fluorobenzene	96	4.100	4.101	-0.001	99	513858	50.0	
* 68 1,4-Dioxane-d8	96	4.824	4.824	0.000	39	37772	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.873	5.873	0.000	98	460045	50.9	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	86	391193	50.0	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	146834	50.0	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.504	0.000	96	207954	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

VOA6IS ONLY_00006 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00003 Amount Added: 5.00 Units: uL Run Reagent

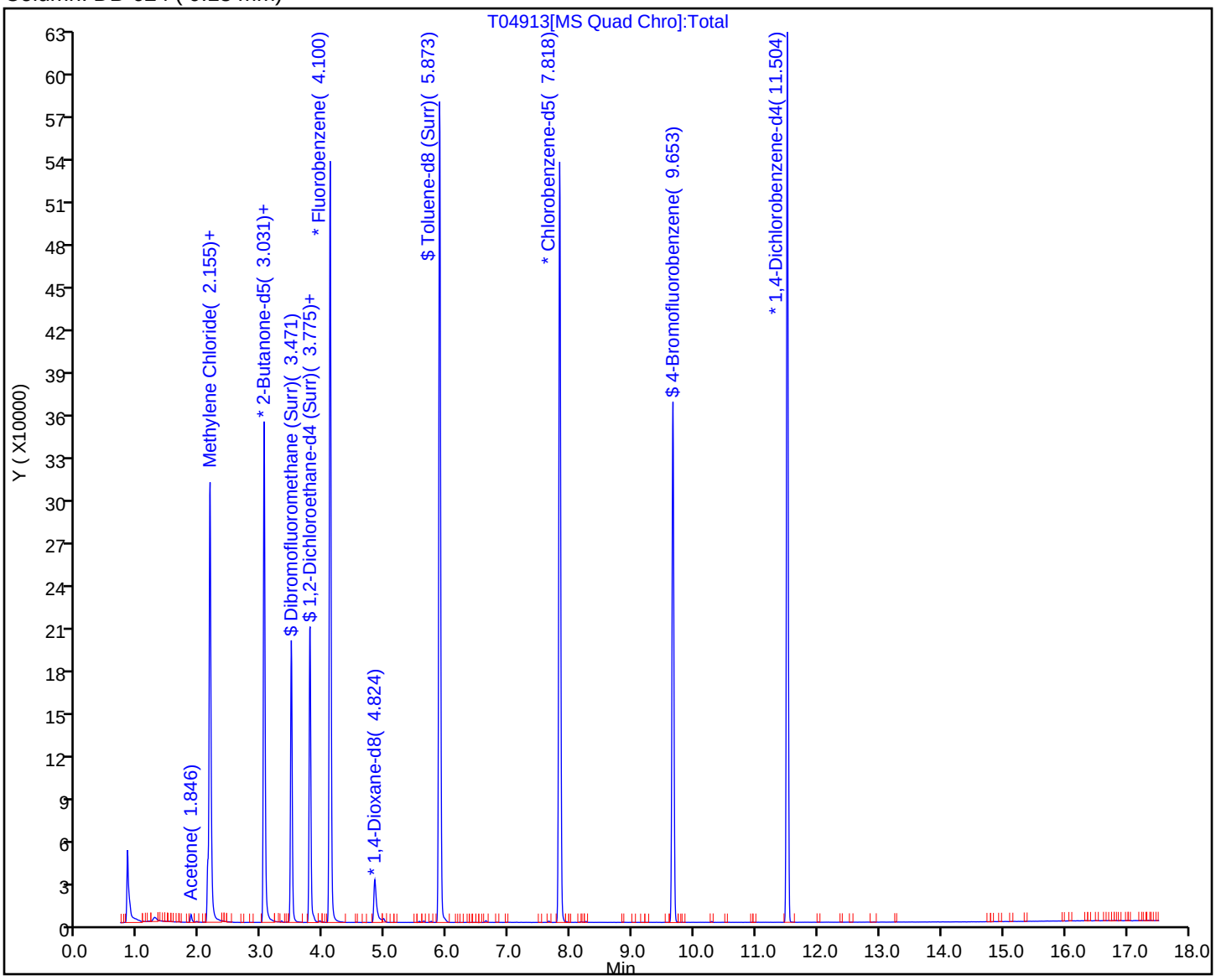
Report Date: 22-Mar-2018 18:10:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04913.D

Injection Date:	22-Mar-2018 10:07:17	Instrument ID:	CVOAMS15
Lims ID:	460-152136-G-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



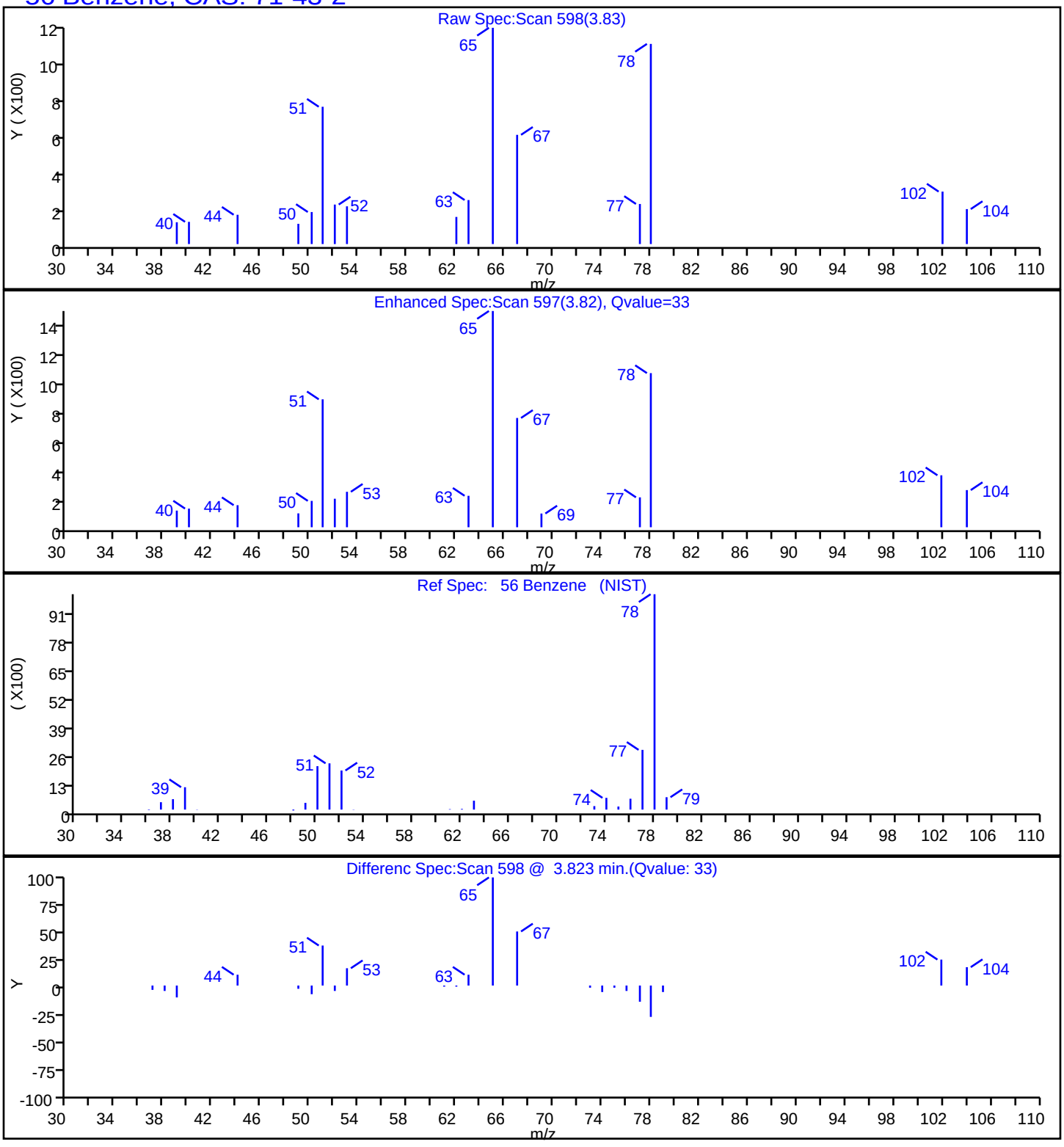
Report Date: 22-Mar-2018 18:10:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04913.D

Injection Date:	22-Mar-2018 10:07:17	Instrument ID:	CVOAMS15
Lims ID:	460-152136-G-2-A	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

56 Benzene, CAS: 71-43-2



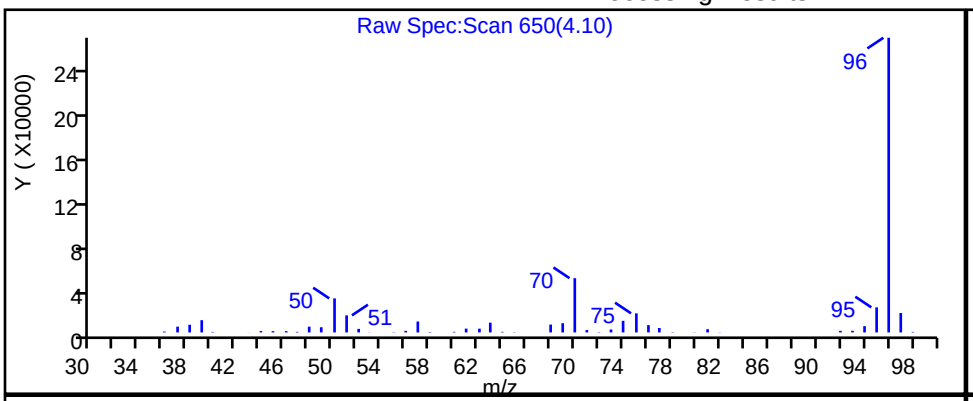
User Disabled Compound Report

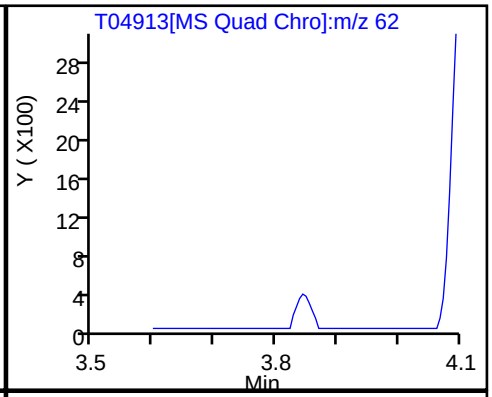
TestAmerica Edison

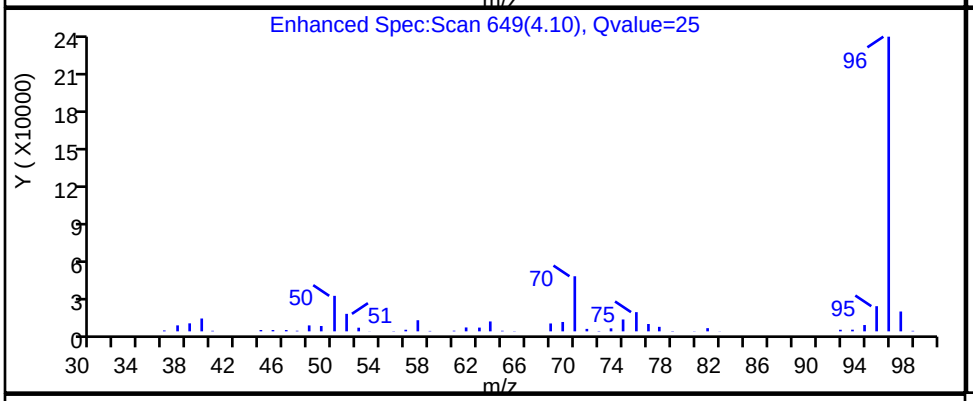
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04913.D				
Injection Date:	22-Mar-2018 10:07:17	Instrument ID:	CVOAMS15		
Lims ID:	460-152136-G-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

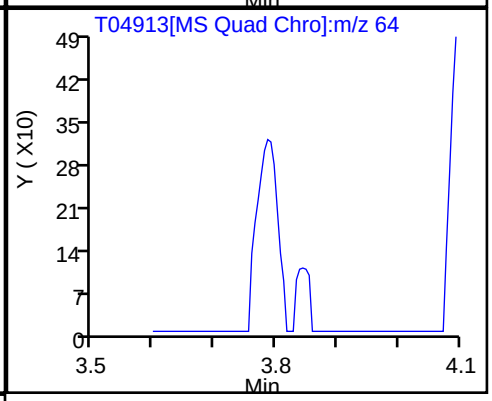
57 1,2-Dichloroethane, CAS: 107-06-2

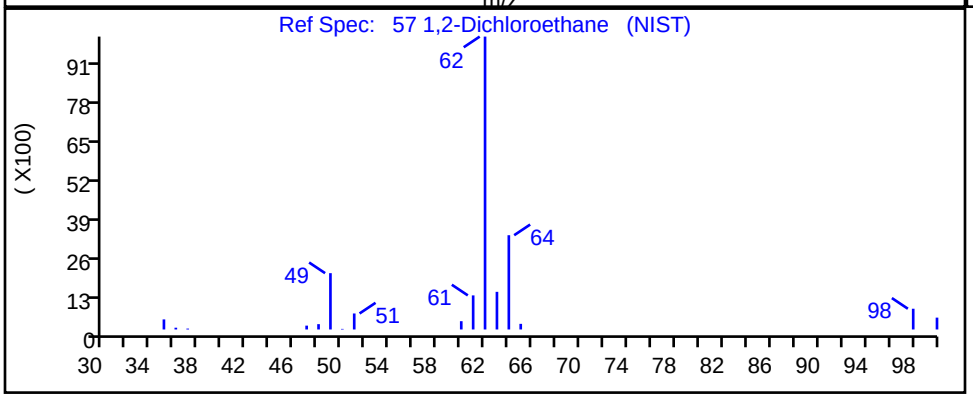
Processing Results











RT	Mass	Response	Amount
4.10	62.00	6141	1.502336
4.10	64.00	921	

Reviewer: desais, 22-Mar-2018 10:34:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

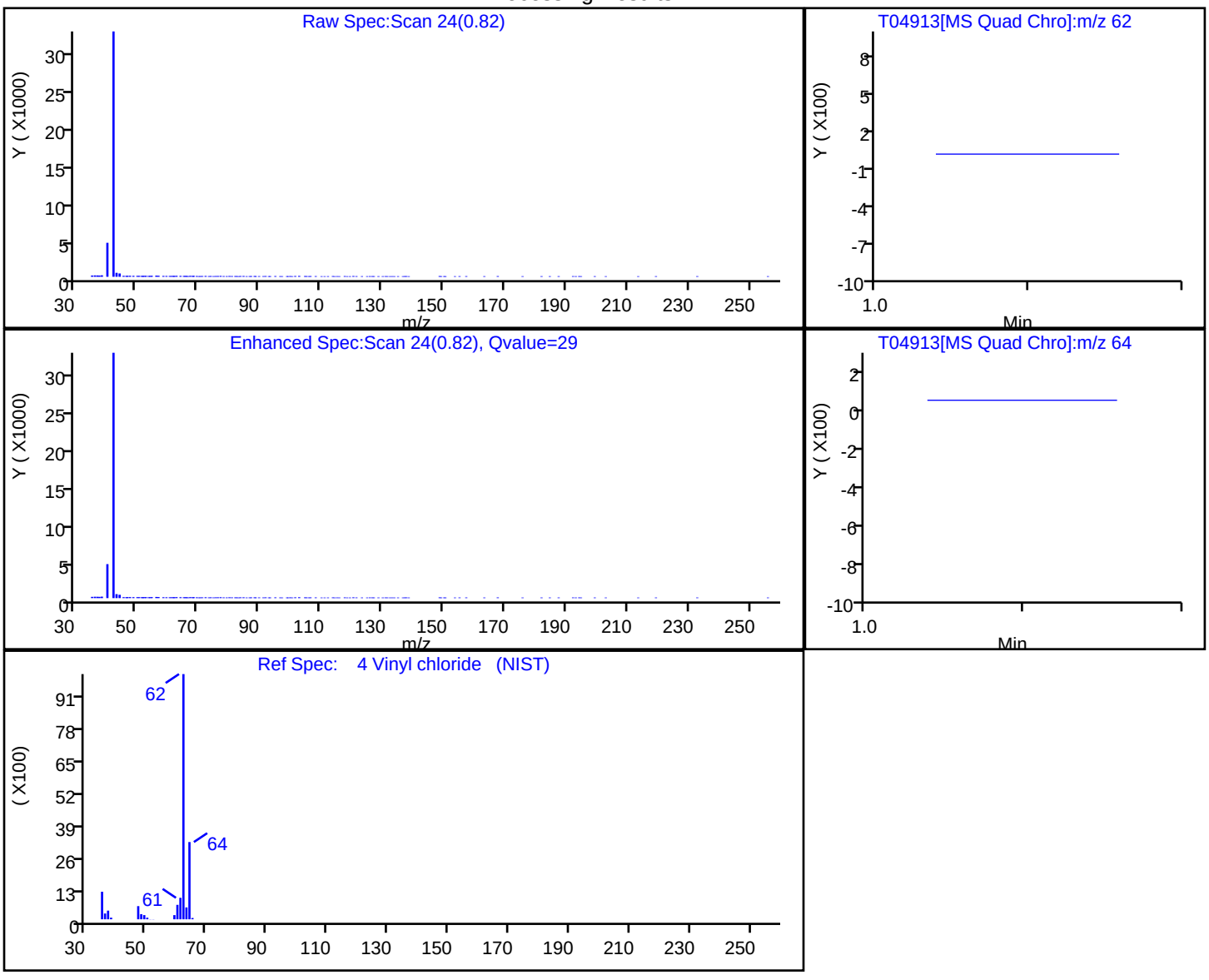
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04913.D				
Injection Date:	22-Mar-2018 10:07:17	Instrument ID:	CVOAMS15		
Lims ID:	460-152136-G-2-A	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.82	62.00	136	0.069071
0.82	64.00	130	

Reviewer: desais, 22-Mar-2018 10:34:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 460-152136-3

Matrix: Water | Lab File ID: P42913.D

Analysis Method: 8260C | Date Collected: 03/16/2018 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	0.23	U	1.0	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	U	5.0	1.1
107-02-8	Acrolein	0.88	U *	4.0	0.88
107-13-1	Acrylonitrile	1.0	U	2.0	1.0
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U *	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 460-152136-3

Matrix: Water | Lab File ID: P42913.D

Analysis Method: 8260C | Date Collected: 03/16/2018 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
104-51-8	n-Butylbenzene	0.27	U	1.0	0.27
103-65-1	N-Propylbenzene	0.29	U	1.0	0.29
95-47-6	o-Xylene	0.32	U	1.0	0.32
135-98-8	sec-Butylbenzene	0.31	U	1.0	0.31
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.28	U	1.0	0.28
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		74-132
460-00-4	4-Bromofluorobenzene	97		77-124
1868-53-7	Dibromofluoromethane (Surr)	111		72-131
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 460-152136-3

Matrix: Water Lab File ID: P42913.D

Analysis Method: 8260C Date Collected: 03/16/2018 11:30

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2018 09:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 505144 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42913.D
Lims ID: 460-152136-A-3
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 22-Mar-2018 09:43:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-152136-A-3
Misc. Info.: 460-0069112-008
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:11:15 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: desais Date: 22-Mar-2018 10:11:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 TBA-d9 (IS)	65	2.067	2.081	-0.014	0	211239	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	111535	55.6	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	177031	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	117358	51.7	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	246201	50.0	
* 72 1,4-Dioxane-d8	96	4.560	4.567	-0.007	0	24001	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	484143	45.7	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	84	369304	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.879	0.007	93	150682	48.7	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	225263	50.0	

Reagents:

8260ISNEW_00121 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent

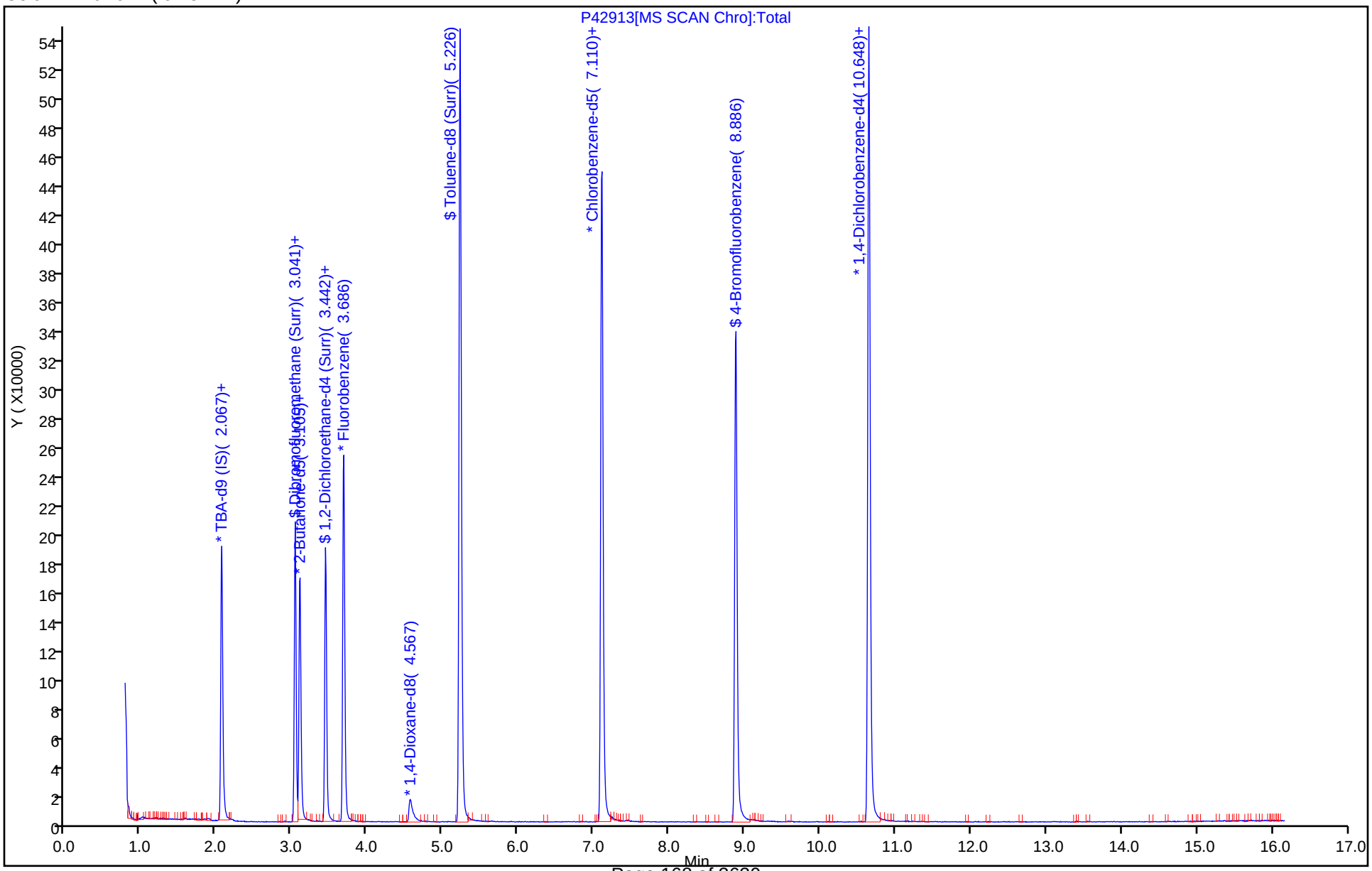
Report Date: 22-Mar-2018 10:15:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42913.D

Injection Date:	22-Mar-2018 09:43:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-152136-A-3	Lab Sample ID:	460-152136-3	Worklist Smp#:	8
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



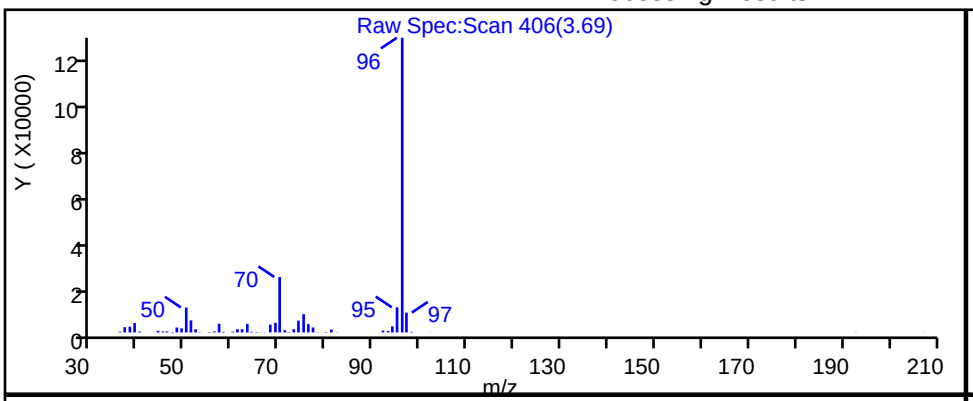
User Disabled Compound Report

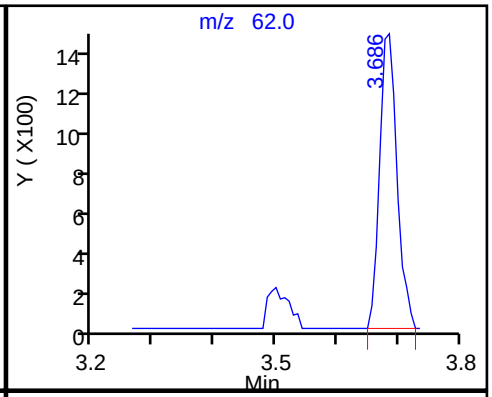
TestAmerica Edison

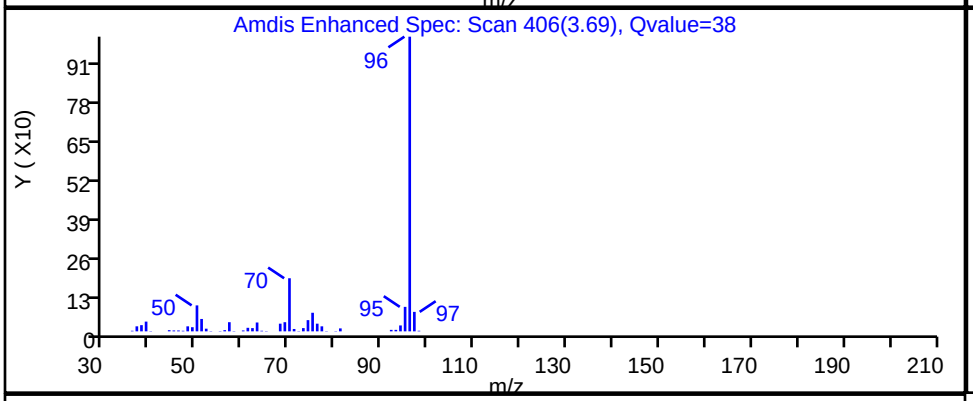
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42913.D		
Injection Date:	22-Mar-2018 09:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-152136-A-3	Lab Sample ID:	460-152136-3
Client ID:	Trip Blank		
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

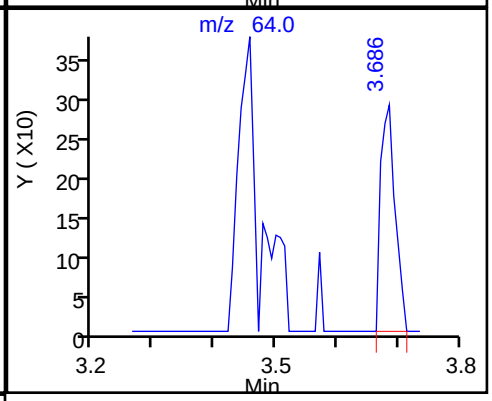
59 1,2-Dichloroethane, CAS: 107-06-2

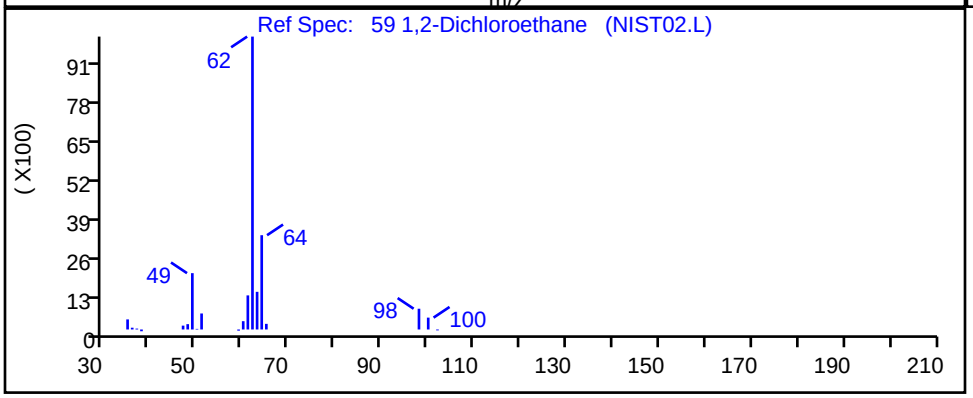
Processing Results











RT	Mass	Response	Amount
3.69	62.00	2800	0.931703
3.69	64.00	482	

Reviewer: desais, 22-Mar-2018 10:11:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

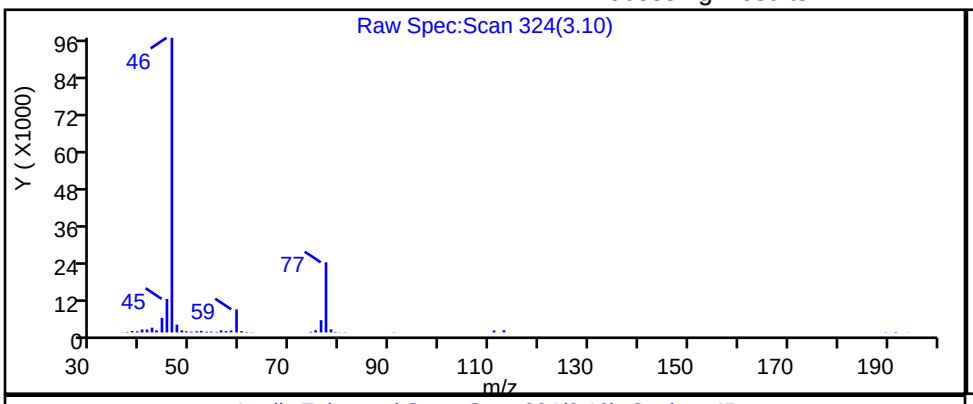
User Disabled Compound Report

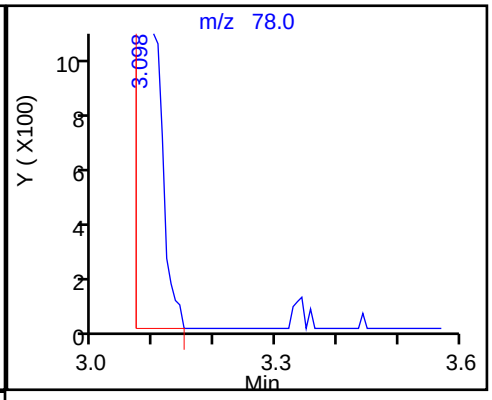
TestAmerica Edison

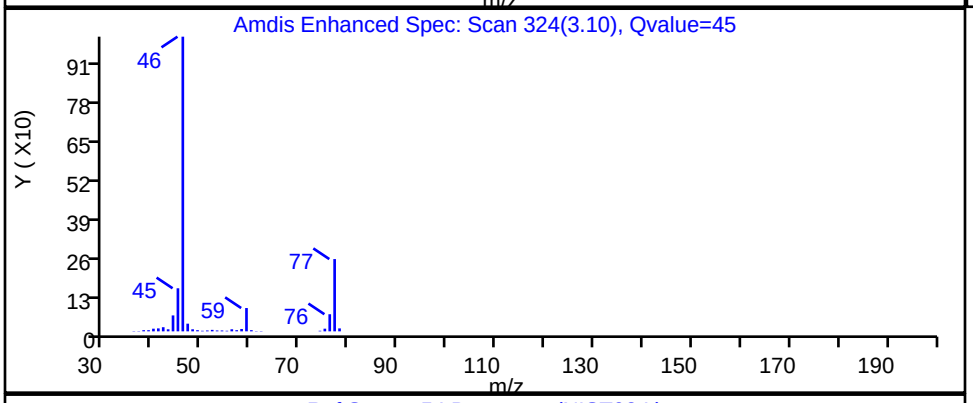
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42913.D		
Injection Date:	22-Mar-2018 09:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-152136-A-3	Lab Sample ID:	460-152136-3
Client ID:	Trip Blank		
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

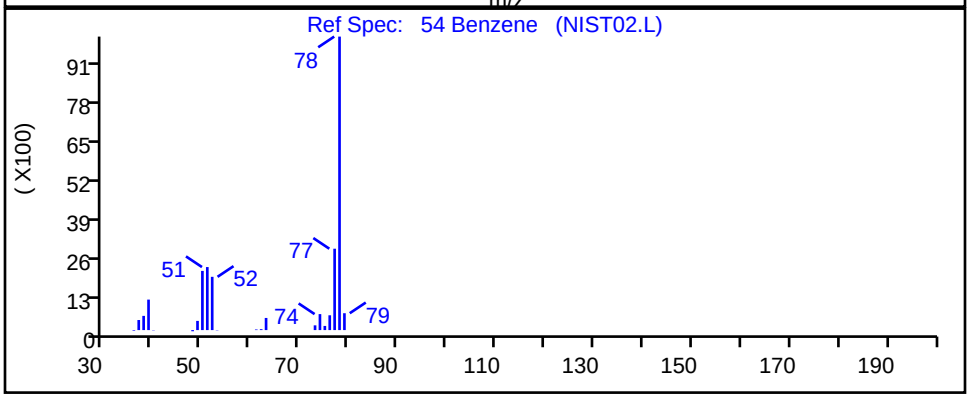
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.10	78.00	1830	0.157327

Reviewer: desais, 22-Mar-2018 10:11:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

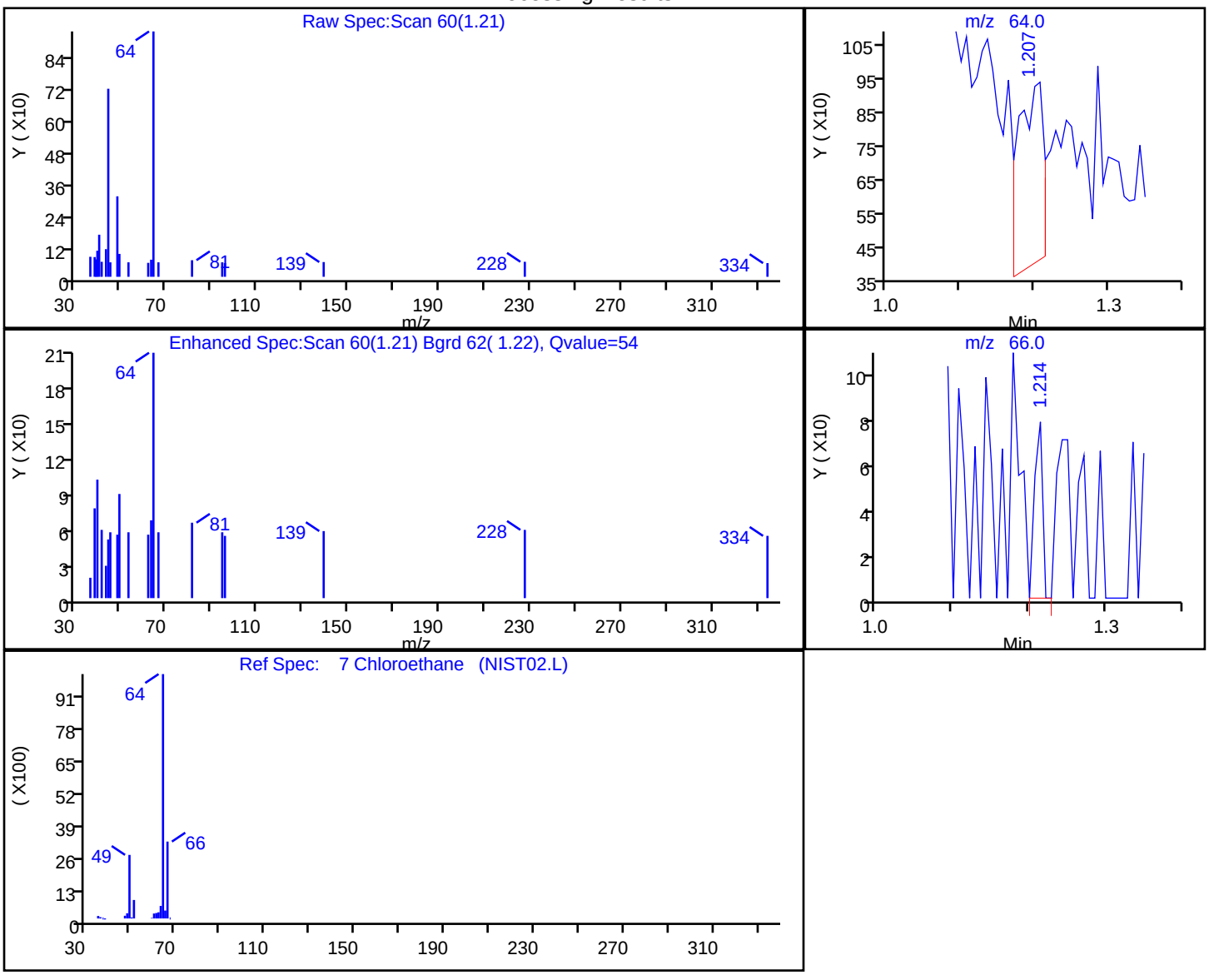
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42913.D				
Injection Date:	22-Mar-2018 09:43:30	Instrument ID:	CVOAMS13		
Lims ID:	460-152136-A-3	Lab Sample ID:	460-152136-3		
Client ID:	Trip Blank				
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.21	64.00	1314	0.691625
1.21	66.00	58	

Reviewer: desais, 22-Mar-2018 10:11:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-501512/3	P42053.D
Level 2	STD05 460-501512/4	P42054.D
Level 3	STD1 460-501512/5	P42055.D
Level 4	STD5 460-501512/6	P42056.D
Level 5	STD20 460-501512/7	P42057.D
Level 6	STD50 460-501512/8	P42058.D
Level 7	STD200 460-501512/9	P42059.D
Level 8	STD500 460-501512/10	P42060.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.1737	0.1667 0.1849	0.1290 0.1787	0.1500	0.1720	Ave		0.1650				11.7		20.0			
Dichlorodifluoromethane	+++++ 0.5282	0.5669 0.5769	0.4838 0.5331	0.4950	0.5721	Ave		0.5366			0.1000	7.0		20.0			
Chloromethane	+++++ 0.4074	0.5112 0.4946	0.4686 0.5140	0.5190	0.4485	Ave		0.4805			0.1000	8.6		20.0			
Vinyl chloride	+++++ 0.5669	0.6902 0.6028	0.6205 0.5780	0.5760	0.6342	Ave		0.6098			0.1000	7.1		20.0			
Butadiene	+++++ 0.5058	0.6399 0.5625	0.5582 0.5219	0.4697	0.5594	Ave		0.5453				9.9		20.0			
Bromomethane	+++++ 1.2499	1.1160 +++++	0.8846 +++++	1.0094	1.1940	Ave		1.0908			0.1000	13.4		20.0			
Chloroethane	+++++ 0.3268	0.4916 0.3301	0.3846 +++++	0.4082	0.3738	Ave		0.3858			0.1000	15.7		20.0			
Pentane	+++++ 1.9717	1.9475 2.1015	1.7775 1.6556	1.8724	1.9885	Ave		1.9021				7.8		20.0			
Trichlorofluoromethane	+++++ 0.5603	0.6503 0.6266	0.5908 0.5397	0.5339	0.6171	Ave		0.5884			0.1000	7.7		20.0			
Dichlorofluoromethane	+++++ 0.7549	0.9171 0.7819	0.8398 0.7023	0.7739	0.8373	Ave		0.8010				8.7		20.0			
2-Methyl-1,3-butadiene	+++++ 0.6505	0.5924 0.6709	0.5675 0.6080	0.5616	0.6788	Ave		0.6185				7.8		20.0			
Ethyl ether	+++++ 0.4190	0.4418 0.4266	0.4243 0.3997	0.4093	0.4363	Ave		0.4224				3.5		20.0			
Ethanol	+++++ 0.0637	0.0558 0.0653	0.0612 0.0630	0.0676	0.0697	Ave		0.0638				7.1		20.0			
1,1-Dichloroethene	+++++ 0.4118	0.4857 0.4335	0.4587 0.4287	0.3797	0.4282	Ave		0.4323			0.1000	7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.5394	0.5475 0.5301	0.5711 0.5306	0.4990	0.5622	Ave		0.5400				4.4		20.0			
Carbon disulfide	+++++ 1.4874	1.8717 1.5851	1.6655 1.5618	1.3843	1.5571	Ave		1.5876			0.1000	9.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.4046	0.4038 0.4194	0.3824 0.3971	0.3798	0.4185	Ave		0.4008			0.1000	3.9		20.0			
Iodomethane	+++++ 0.3766	0.1036 0.4615	0.1247 0.4305	0.1588	0.2892	QuaF		0.4635	-0.000065						0.9990		0.9900
Cyclopentene	+++++ 1.1335	1.1828 1.1545	1.2039 1.1115	1.0388	1.1913	Ave		1.1452				5.0		20.0			
Acrolein	+++++ 1.7783	1.9829 1.7813	1.8349 1.7164	1.7207	1.7592	Ave		1.7962				5.1		20.0			
Allyl chloride	+++++ 0.2762	0.2660 0.2763	0.2851 0.2503	0.2593	0.2843	Ave		0.2711				4.8		20.0			
Isopropyl alcohol	+++++ 0.7203	0.8418 0.7197	0.8395 0.7012	0.7757	0.7461	Ave		0.7635				7.6		20.0			
Methylene Chloride	+++++ 0.4851	0.7167 0.4912	0.6095 0.4863	0.4993	0.5166	Ave		0.5435			0.1000	16.2		20.0			
Acetone	+++++ 0.7839	1.3700 0.9336	0.9922 0.8141	0.8176	0.8032	Qua2	1.3667	0.7868	0.0000286		0.0500				0.9930		0.9900
trans-1,2-Dichloroethene	+++++ 0.4576	0.5227 0.4675	0.4946 0.4673	0.4461	0.4743	Ave		0.4757			0.1000	5.4		20.0			
Methyl acetate	+++++ 0.3602	0.3824 0.3705	0.4008 0.3606	0.3703	0.3711	Ave		0.3737			0.1000	3.8		20.0			
Hexane	+++++ 0.1166	0.1271 0.1278	0.0898 0.1277	0.1048	0.1203	Ave		0.1163				12.3		20.0			
Methyl tert-butyl ether	+++++ 1.3688	1.2420 1.3920	1.3694 1.3202	1.3199	1.4097	Ave		1.3460			0.1000	4.2		20.0			
2-Methyl-2-propanol	+++++ 1.1005	1.4275 1.1132	1.2715 1.0952	1.1480	1.1340	Ave		1.1843				10.4		20.0			
Acetonitrile	+++++ 1.5926	1.7813 1.5746	1.6733 1.5251	1.5592	1.6580	Ave		1.6234				5.4		20.0			
Isopropyl ether	+++++ 1.6894	1.7060 1.7068	1.6664 1.6891	1.5968	1.7507	Ave		1.6865				2.8		20.0			
2-Chloro-1,3-butadiene	+++++ 0.4291	0.4222 0.4412	0.4055 0.4304	0.3855	0.4391	Ave		0.4218				4.7		20.0			
1,1-Dichloroethane	+++++ 0.8273	0.8818 0.8352	0.8650 0.8097	0.7810	0.8610	Ave		0.8373			0.2000	4.2		20.0			
Acrylonitrile	0.1920 0.1904	0.1824 0.1940	0.1919 0.1858	0.1822	0.1942	Ave		0.1891				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	+++++ 1.5095	1.4771 1.5270	1.4545 1.5153	1.4140	1.5465	Ave		1.4920				3.1		20.0			
Vinyl acetate	+++++ 1.0022	0.9934 1.2089	0.9456 1.1558	0.8634	1.0117	Ave		1.0258				11.6		20.0			
cis-1,2-Dichloroethene	+++++ 0.4982	0.5125 0.5062	0.5270 0.5228	0.4756	0.5261	Ave		0.5098			0.1000	3.6		20.0			
2,2-Dichloropropane	+++++ 0.5833	0.6386 0.6470	0.5998 0.6299	0.5265	0.6096	Ave		0.6049				6.8		20.0			
Cyclohexane	+++++ 0.8383	0.8009 0.8707	0.7421 0.8408	0.7372	0.8292	Ave		0.8085			0.1000	6.3		20.0			
Chlorobromomethane	+++++ 0.2409	0.2310 0.2356	0.2419 0.2273	0.2357	0.2475	Ave		0.2371				2.9		20.0			
Chloroform	+++++ 0.7552	0.7887 0.7641	0.7554 0.7610	0.7054	0.7903	Ave		0.7600			0.2000	3.7		20.0			
Carbon tetrachloride	+++++ 0.4983	0.4839 0.5282	0.4785 0.5145	0.4382	0.5124	Ave		0.4934			0.1000	6.1		20.0			
Ethyl acetate	+++++ 0.3279	0.4243 0.3392	0.3934 0.3406	0.3140	0.3241	Ave		0.3519				11.6		20.0			
Methyl acrylate	+++++ 0.4503	0.4046 0.4697	0.3933 0.4593	0.4040	0.4439	Ave		0.4321				7.1		20.0			
Tetrahydrofuran	+++++ 1.1659	1.2139 1.1975	1.2453 1.1615	1.1705	1.1874	Ave		1.1917				2.5		20.0			
1,1,1-Trichloroethane	+++++ 0.6334	0.6118 0.6467	0.5975 0.6352	0.5581	0.6528	Ave		0.6194			0.1000	5.4		20.0			
2-Butanone (MEK)	+++++ 0.3614	0.3898 0.3858	0.3817 0.3786	0.3523	0.3664	Ave		0.3737			0.0500	3.7		20.0			
1,1-Dichloropropene	+++++ 0.6301	0.8290 0.6501	0.7594 0.6367	0.6385	0.6597	Ave		0.6862				11.2		20.0			
2,2,4-Trimethylpentane	+++++ 1.3978	1.6277 1.4439	1.3683 1.4097	1.3160	1.4406	Ave		1.4291				6.9		20.0			
n-Heptane	+++++ 0.3688	0.4107 0.4030	0.3710 0.3896	0.3351	0.3698	Ave		0.3783				6.7		20.0			
Benzene	+++++ 1.5730	1.5742 1.6156	1.5807 1.6051	1.4488	1.6264	Ave		1.5748			0.5000	3.8		20.0			
Propionitrile	+++++ 1.6257	1.5549 1.6878	1.5748 1.6058	1.5505	1.6786	Ave		1.6111				3.5		20.0			
Methacrylonitrile	+++++ 0.2086	0.1795 0.2140	0.1991 0.1995	0.1982	0.2147	Ave		0.2019				6.0		20.0			
Tert-amyl methyl ether	+++++ 1.4076	1.3671 1.4471	1.3686 1.4287	1.3167	1.4437	Ave		1.3970				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.5639	0.7629 0.5740	0.6708 0.5531	0.5600	0.5875	Ave		0.6103			0.1000	12.8		20.0			
Isobutyl alcohol	+++++ 0.4756	0.5572 0.5309	0.4441 0.5304	0.4281	0.4699	Ave		0.4909				10.0		20.0			
Isopropyl acetate	+++++ 0.9108	0.9020 0.9572	0.8579 0.9325	0.8352	0.9235	Ave		0.9027				4.7		20.0			
Methylcyclohexane	+++++ 0.8012	0.7402 0.8447	0.7432 0.8639	0.6950	0.8129	Ave		0.7859			0.1000	7.8		20.0			
Trichloroethene	+++++ 0.4808	0.5296 0.4942	0.4740 0.4879	0.4434	0.5041	Ave		0.4877			0.2000	5.5		20.0			
Dibromomethane	+++++ 0.2836	0.2787 0.2921	0.2630 0.2876	0.2725	0.2917	Ave		0.2813				3.8		20.0			
n-Butanol	+++++ 0.2953	0.1528 0.3236	0.2080 0.3351	0.2137	0.2841	Qua2	-1.540	0.2711	0.0000060						0.9920		0.9900
1,2-Dichloropropane	+++++ 0.5058	0.4954 0.5274	0.4963 0.5196	0.4768	0.5190	Ave		0.5057			0.1000	3.5		20.0			
Ethyl acrylate	+++++ 0.6426	0.3586 0.6791	0.5503 0.6757	0.5679	0.6275	Ave		0.5860				19.1		20.0			
Dichlorobromomethane	+++++ 0.5719	0.4918 0.5975	0.5170 0.5929	0.5033	0.5730	Ave		0.5496			0.2000	8.1		20.0			
Methyl methacrylate	+++++ 0.1363	0.1119 0.1444	0.1174 0.1407	0.1179	0.1330	Ave		0.1288				10.0		20.0			
1,4-Dioxane	+++++ 1.2458	1.2911 1.2881	1.3945 1.1921	1.2257	1.2448	Ave		1.2689				5.1		20.0			
n-Propyl acetate	+++++ 0.7034	0.5429 0.7412	0.6639 0.7293	0.6025	0.6946	Ave		0.6682				10.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2958	0.1679 0.2890	0.1728 0.2814	0.2513	0.2885	Qua2	-0.066	0.2785	0.0000163						0.9930		0.9900
cis-1,3-Dichloropropene	+++++ 0.6294	0.5487 0.6767	0.5403 0.6736	0.5489	0.6383	Ave		0.6080			0.2000	10.0		20.0			
Toluene	+++++ 1.6952	1.8162 1.7190	1.7299 1.7147	1.5745	1.7636	Ave		1.7162			0.4000	4.3		20.0			
Epichlorohydrin	0.1858 0.2912	0.2167 0.3078	0.2420 0.3058	0.2513	0.2893	Ave		0.2612				17.1		20.0			
2-Nitropropane	+++++ 0.0970	0.1008 0.1117	0.0836 0.1115	0.0843	0.0940	Ave		0.0975				11.7		20.0			
Tetrachloroethene	+++++ 0.3908	0.4400 0.3995	0.4246 0.3991	0.3625	0.4071	Ave		0.4034			0.2000	6.1		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.9174	2.3417 2.9884	2.5476 2.9439	2.6361	2.9271	Ave		2.7575			0.0500	9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	+++++ 0.5630	0.4002 0.6119	0.4175 0.6235	0.4558	0.5599	Ave		0.5188			0.1000	17.9		20.0			
1,1,2-Trichloroethane	+++++ 0.2975	0.2311 0.3063	0.2613 0.3090	0.2745	0.2965	Ave		0.2823			0.1000	10.1		20.0			
Ethyl methacrylate	+++++ 0.6436	0.4352 0.6850	0.4616 0.6800	0.5326	0.6307	Ave		0.5812				17.9		20.0			
Chlorodibromomethane	+++++ 0.3593	0.2676 0.3876	0.2990 0.3941	0.3097	0.3571	Ave		0.3392			0.1000	14.1		20.0			
1,3-Dichloropropane	+++++ 0.6166	0.5198 0.6373	0.5736 0.6349	0.5784	0.6285	Ave		0.5985				7.2		20.0			
Ethylene Dibromide	+++++ 0.3478	0.2818 0.3698	0.2782 0.3670	0.2989	0.3472	Ave		0.3272			0.1000	12.2		20.0			
n-Butyl acetate	+++++ 0.6187	0.4032 0.6690	0.3853 0.6544	0.4742	0.5882	QuaF		0.6685	-0.000027						1.0000		0.9900
2-Hexanone	+++++ 2.0669	1.5369 2.1502	1.7446 2.1223	1.8410	2.0646	Ave		1.9324			0.0500	11.9		20.0			
Chlorobenzene	+++++ 1.0705	1.0947 1.0891	1.0438 1.0849	1.0122	1.1258	Ave		1.0744			0.5000	3.4		20.0			
Ethylbenzene	+++++ 0.5917	0.5584 0.6064	0.5544 0.6159	0.5343	0.6078	Ave		0.5813			0.1000	5.5		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3390	0.3084 0.3620	0.2978 0.3680	0.3063	0.3453	Ave		0.3324				8.5		20.0			
m-Xylene & p-Xylene	+++++ 0.7193	0.7217 0.7444	0.6750 0.7449	0.6468	0.7500	Ave		0.7146			0.1000	5.5		20.0			
o-Xylene	+++++ 0.7010	0.6474 0.7111	0.6311 0.7156	0.6390	0.7192	Ave		0.6806			0.3000	5.8		20.0			
Bromoform	+++++ 0.2148	0.1574 0.2474	0.1681 0.2551	0.1876	0.2105	Ave		0.2058			0.1000	18.1		20.0			
Styrene	+++++ 1.1759	0.8873 1.2241	0.9399 1.2377	0.9320	1.1747	Ave		1.0817			0.3000	14.2		20.0			
n-Butyl acrylate	+++++ 0.2979	0.1529 0.3241	0.1586 0.3289	0.2215	0.2744	QuaF		0.3164	0.0000252						1.0000		0.9900
Isopropylbenzene	+++++ 1.8191	1.7632 1.8404	1.6766 1.8383	1.6553	1.9028	Ave		1.7851			0.1000	5.1		20.0			
Amyl acetate (mixed isomers)	+++++ 1.2060	0.8445 1.2888	0.7658 1.3030	0.9070	1.1263	QuaF		1.2648	0.0000774						1.0000		0.9900
Bromobenzene	+++++ 0.7704	0.7958 0.7814	0.7749 0.7858	0.7182	0.7979	Ave		0.7749				3.5		20.0			
N-Propylbenzene	+++++ 3.6337	3.5097 3.6964	3.4987 3.6985	3.2430	3.7919	Ave		3.5817				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,2,2-Tetrachloroethane	+++++ 0.7626	0.7650 0.8099	0.7124 0.8180	0.6976	0.7674	Ave		0.7618			0.3000	5.9		20.0			
2-Chlorotoluene	+++++ 2.4630	2.5304 2.5184	2.4316 2.5541	2.2632	2.5630	Ave		2.4748				4.2		20.0			
4-Ethyltoluene	+++++ 3.0857	3.0939 3.1350	2.9138 3.1197	2.7540	3.2272	Ave		3.0470				5.2		20.0			
1,2,3-Trichloropropane	+++++ 0.2227	0.1968 0.2290	0.2112 0.2265	0.2025	0.2316	Ave		0.2172				6.3		20.0			
1,3,5-Trimethylbenzene	+++++ 2.5297	2.3956 2.5805	2.3662 2.6001	2.2755	2.6183	Ave		2.4808				5.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1987	0.1230 0.2250	0.1403 0.2465	0.1795	0.2002	Qua2	-0.039	0.1930	0.0001150						0.9980		0.9900
4-Chlorotoluene	+++++ 2.2486	2.1490 2.3267	2.2262 2.3611	2.0579	2.3473	Ave		2.2453				5.0		20.0			
tert-Butylbenzene	+++++ 2.1397	2.1891 2.1731	2.1051 2.1786	1.9261	2.2243	Ave		2.1337				4.6		20.0			
Butyl Methacrylate	+++++ 0.9009	0.5234 1.0067	0.5928 1.0305	0.6466	0.8359	Qua2	-0.161	0.8069	0.0005360						0.9900		0.9900
1,2,4-Trimethylbenzene	+++++ 2.6261	2.5720 2.7032	2.5305 2.6815	2.3085	2.7065	Ave		2.5897				5.4		20.0			
sec-Butylbenzene	+++++ 3.2418	3.2147 3.2883	3.0959 3.2847	2.9143	3.3800	Ave		3.2028				4.8		20.0			
1,3-Dichlorobenzene	+++++ 1.4544	1.4073 1.4983	1.4090 1.4770	1.3049	1.4993	Ave		1.4358			0.6000	4.8		20.0			
4-Isopropyltoluene	+++++ 2.7500	2.6928 2.8570	2.5772 2.8335	2.4316	2.8570	Ave		2.7142				5.9		20.0			
1,4-Dichlorobenzene	+++++ 1.4925	1.7353 1.5189	1.6111 1.5018	1.4042	1.5419	Ave		1.5437			0.5000	6.8		20.0			
1,2,3-Trimethylbenzene	+++++ 2.7033	2.6401 2.7470	2.6046 2.7090	2.4446	2.7971	Ave		2.6637				4.3		20.0			
Indan	+++++ 2.7238	2.7014 2.7285	2.5436 2.6516	2.5196	2.8046	Ave		2.6676				3.9		20.0			
Benzyl chloride	+++++ 0.2066	0.1197 0.3006	0.1389 0.3106	0.1421	0.1891	QuaF		0.2791	0.0000640						0.9990		0.9900
p-Diethylbenzene	+++++ 1.4733	1.3751 1.5247	1.3556 1.4987	1.2904	1.5213	Ave		1.4342				6.5		20.0			
n-Butylbenzene	+++++ 2.4803	2.5537 2.5574	2.2868 2.5522	2.1860	2.5570	Ave		2.4533				6.3		20.0			
1,2-Dichlorobenzene	+++++ 1.4020	1.3285 1.4359	1.3242 1.4108	1.2740	1.4448	Ave		1.3743			0.4000	4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 2.5707	2.3479 2.5697	2.1912 2.4784	2.1810	2.6110	Ave		2.4214				7.5		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1425	0.0925 0.1588	0.1146 0.1568	0.1153	0.1422	Ave		0.1318			0.0500	18.8		20.0			
1,3,5-Trichlorobenzene	+++++ 1.0069	1.0352 1.0339	0.9508 0.9954	0.9150	1.0522	Ave		0.9985				5.0		20.0			
1,2,4-Trichlorobenzene	+++++ 0.9369	0.9811 0.9785	0.8629 0.9491	0.8300	0.9554	Ave		0.9277			0.2000	6.3		20.0			
Hexachlorobutadiene	+++++ 0.3364	0.3671 0.3464	0.3598 0.3250	0.2962	0.3420	Ave		0.3390				6.9		20.0			
Naphthalene	+++++ 2.1979	2.0307 2.2780	2.1980 2.2296	2.0788	2.2359	Ave		2.1784				4.1		20.0			
1,2,3-Trichlorobenzene	+++++ 0.8199	0.7409 0.8475	0.8335 0.8144	0.7507	0.8478	Ave		0.8078				5.5		20.0			
Dibromofluoromethane (Surr)	0.4139 0.3971	0.4073 0.4004	0.4348 0.3939	0.3987	0.4108	Ave		0.4071				3.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4577 0.4499	0.4584 0.4562	0.4874 0.4732	0.4536	0.4524	Ave		0.4611				2.8		20.0			
Toluene-d8 (Surr)	1.4585 1.4191	1.4584 1.4014	1.5181 1.3961	1.4024	1.4316	Ave		1.4357				2.9		20.0			
4-Bromofluorobenzene	0.4192 0.4164	0.4232 0.4134	0.4407 0.4048	0.4113	0.4240	Ave		0.4191				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-501512/3	P42053.D
Level 2	STD05 460-501512/4	P42054.D
Level 3	STD1 460-501512/5	P42055.D
Level 4	STD5 460-501512/6	P42056.D
Level 5	STD20 460-501512/7	P42057.D
Level 6	STD50 460-501512/8	P42058.D
Level 7	STD200 460-501512/9	P42059.D
Level 8	STD500 460-501512/10	P42060.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 70400	653 311946	952 779209	5954	27252	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorodifluoromethane	FB	Ave	+++++ 214081	2221 973211	3570 2324714	19648	90653	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloromethane	FB	Ave	+++++ 165089	2003 834394	3458 2241736	20601	71079	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl chloride	FB	Ave	+++++ 229739	2704 1016750	4579 2520518	22863	100493	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butadiene	FB	Ave	+++++ 204970	2507 948874	4119 2275960	18644	88650	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromomethane	BUT	Ave	+++++ 83713	718 +++++	1096 +++++	6572	31674	+++++ 50.0	0.500 +++++	1.00 +++++	5.00	20.0
Chloroethane	FB	Ave	+++++ 132427	1926 556787	2838 +++++	16202	59235	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
Pentane	TBAd9	Ave	+++++ 66992	633 300114	1115 614991	6203	26349	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Trichlorofluoromethane	FB	Ave	+++++ 227057	2548 1056975	4360 2353674	21192	97792	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorofluoromethane	FB	Ave	+++++ 305934	3593 1318981	6197 3062855	30716	132690	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 263647	2321 1131697	4188 2651656	22292	107562	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl ether	FB	Ave	+++++ 169822	1731 719648	3131 1743288	16245	69135	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethanol	TBAd9	Ave	+++++ 43278	363 186616	768 467970	4478	18476	+++++ 2000	20.0 8000	40.0 20000	200	800
1,1-Dichloroethene	FB	Ave	+++++ 166880	1903 731258	3385 1869535	15072	67858	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 218619	2145 894140	4214 2313839	19804	89095	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Carbon disulfide	FB	Ave	+++++ 602795	7333 2673888	12290 6811171	54944	246745	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 163984	1582 707424	2822 1731774	15073	66322	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Iodomethane	FB	QuaF	+++++ 152620	406 778409	920 1877275	6303	45835	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclopentene	FB	Ave	+++++ 459398	4634 1947398	8884 4847027	41231	188787	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acrolein	TBAd9	Ave	+++++ 60420	1289 127189	2302 255032	11401	23310	+++++ 100	2.00 200	4.00 400	20.0	40.0
Allyl chloride	FB	Ave	+++++ 111946	1042 466064	2104 1091599	10291	45054	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl alcohol	TBAd9	Ave	+++++ 122364	1368 513930	2633 1302424	12849	49432	+++++ 500	5.00 2000	10.0 5000	50.0	200
Methylene Chloride	FB	Ave	+++++ 196615	2808 828564	4498 2120883	19817	81857	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acetone	BUT	Qua2	+++++ 262516	4407 1318571	6147 2939350	26614	106533	+++++ 250	2.50 1000	5.00 2500	25.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 185452	2048 788582	3650 2037997	17704	75155	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl acetate	FB	Ave	+++++ 729971	7492 3124872	14789 7862179	73481	294026	+++++ 250	2.50 1000	5.00 2500	25.0	100
Hexane	FB	Ave	+++++ 47247	498 215605	663 556685	4160	19056	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 554758	4866 2348036	10105 5757269	52386	223387	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 186952	2320 794858	3988 2034174	19016	75131	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acetonitrile	TBAd9	Ave	+++++ 270547	2895 1124307	5248 2832674	25826	109845	+++++ 500	5.00 2000	10.0 5000	50.0	200
Isopropyl ether	FB	Ave	+++++ 684673	6684 2879166	12297 7366313	63376	277430	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 173920	1654 744179	2992 1877008	15299	69575	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloroethane	FB	Ave	+++++ 335303	3455 1408832	6383 3531060	30997	136434	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acrylonitrile	FB	Ave	3029 771809	7147 3272449	14162 8100528	72322	307811	2.00 500	5.00 2000	10.0 5000	50.0	200
Tert-butyl ethyl ether	FB	Ave	+++++ 611746	5787 2575877	10733 6608323	56120	245067	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl acetate	FB	Ave	+++++ 812303	7784 4078304	13956 10080448	68539	320632	+++++ 100	1.00 400	2.00 1000	10.0	40.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	+++++ 201901	2008 853925	3889 2279942	18878	83366	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2-Dichloropropane	FB	Ave	+++++ 236386	2502 1091325	4426 2747016	20896	96599	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclohexane	FB	Ave	+++++ 339741	3138 1468711	5476 3666767	29260	131401	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorobromomethane	FB	Ave	+++++ 97613	905 397471	1785 991416	9355	39213	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloroform	FB	Ave	+++++ 306045	3090 1288856	5574 3318842	27996	125232	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon tetrachloride	FB	Ave	+++++ 201941	1896 890948	3531 2243726	17394	81191	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl acetate	BUT	Ave	+++++ 43924	546 191646	975 491870	4089	17194	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Methyl acrylate	FB	Ave	+++++ 182483	1585 792274	2902 2002816	16036	70339	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tetrahydrofuran	BUT	Ave	+++++ 156175	1562 676519	3086 1677603	15242	62997	+++++ 100	1.00 400	2.00 1000	10.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 256696	2397 1090825	4409 2770106	22152	103444	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Butanone (MEK)	BUT	Ave	+++++ 121036	1254 544877	2365 1367108	11470	48604	+++++ 250	2.50 1000	5.00 2500	25.0	100
1,1-Dichloropropene	FB	Ave	+++++ 255344	3248 1096551	5604 2776674	25342	104535	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 566484	6377 2435585	10097 6147451	52233	228278	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Heptane	FB	Ave	+++++ 149458	1609 679768	2738 1698821	13299	58605	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzene	CBNZ d5	Ave	+++++ 781632	7453 3352876	14348 8625973	70581	316794	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Propionitrile	TBAd 9	Ave	+++++ 276170	2527 1205122	4939 2982580	25682	111211	+++++ 500	5.00 2000	10.0 5000	50.0	200
Methacrylonitrile	FB	Ave	+++++ 845482	7032 3609496	14694 8702166	78672	340157	+++++ 500	5.00 2000	10.0 5000	50.0	200
Tert-amyl methyl ether	FB	Ave	+++++ 570458	5356 2441018	10099 6230310	52259	228776	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloroethane	FB	Ave	+++++ 228551	2989 968324	4950 2412068	22226	93097	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 202001	2264 947644	3482 2462757	17726	77829	+++++ 1250	12.5 5000	25.0 12500	125	500
Isopropyl acetate	FB	Ave	+++++ 369133	3534 1614579	6331 4066671	33149	146338	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methylcyclohexane	FB	Ave	+++++ 324692	2900 1424866	5484 3767582	27584	128812	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Trichloroethene	FB	Ave	+++++ 194841	2075 833606	3498 2127857	17598	79881	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromomethane	FB	Ave	+++++ 114946	1092 492678	1941 1254308	10816	46219	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butanol	TBAd9	Qua2	+++++ 125395	621 577646	1631 1555786	8848	47048	+++++ 1250	12.5 5000	25.0 12500	125	500
1,2-Dichloropropane	FB	Ave	+++++ 204977	1941 889564	3662 2265910	18925	82240	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl acrylate	FB	Ave	+++++ 260409	1405 1145478	4061 2946651	22542	99437	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorobromomethane	FB	Ave	+++++ 231773	1927 1007816	3815 2585617	19978	90793	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl methacrylate	FB	Ave	+++++ 110459	877 487245	1733 1227607	9355	42160	+++++ 100	1.00 400	2.00 1000	10.0	40.0
1,4-Dioxane	DXE	Ave	+++++ 42298	1039 176750	2168 456132	4165	17102	+++++ 1000	25.0 4000	50.0 10000	100	400
n-Propyl acetate	FB	Ave	+++++ 285061	2127 1250259	4899 3180402	23913	110074	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chloroethyl vinyl ether	FB	Qua2	+++++ 119883	658 487561	1275 1227258	9976	45724	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 312728	2598 1404309	4904 3619951	26740	124318	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Toluene	CBNZd5	Ave	+++++ 842328	8599 3567535	15703 9215018	76705	343509	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Epichlorohydrin	BUT	Ave	1203 390109	2789 1738655	5997 4416912	32721	153504	5.00 1000	10.0 4000	20.0 10000	100	400
2-Nitropropane	FB	Ave	+++++ 78586	790 376785	1234 972129	6690	29778	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Tetrachloroethene	CBNZd5	Ave	+++++ 194173	2083 829121	3854 2144753	17662	79296	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 976984	7533 4220747	15783 10629395	85813	388256	+++++ 250	2.50 1000	5.00 2500	25.0	100
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 279757	1895 1269783	3790 3350859	22203	109046	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 147846	1094 635642	2372 1660424	13375	57753	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl methacrylate	FB	Ave	+++++ 260842	1705 1155484	3406 2965586	21139	99946	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorodibromomethane	CBNZd5	Ave	+++++ 178514	1267 804309	2714 2117825	15086	69561	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 306370	2461 1322667	5207 3412195	28180	122422	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylene Dibromide	CBNZ d5	Ave	+++++ 172800	1334 767441	2525 1972130	14561	67631	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acetate	CBNZ d5	QuaF	+++++ 307444	1909 1388405	3497 3517021	23100	114567	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Hexanone	BUT	Ave	+++++ 692166	4944 3036830	10808 7663061	59930	273858	+++++ 250	2.50 1000	5.00 2500	25.0	100
Chlorobenzene	CBNZ d5	Ave	+++++ 531938	5183 2260311	9475 5830014	49313	219279	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylbenzene	CBNZ d5	Ave	+++++ 294006	2644 1258386	5032 3310121	26027	118388	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 168467	1460 751297	2703 1977599	14921	67258	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 357395	3417 1544862	6127 4002971	31511	146082	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
o-Xylene	CBNZ d5	Ave	+++++ 348305	3065 1475708	5729 3845465	31131	140092	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromoform	CBNZ d5	Ave	+++++ 106738	745 513401	1526 1370816	9138	40996	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Styrene	CBNZ d5	Ave	+++++ 584322	4201 2540302	8532 6651650	45406	228801	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acrylate	CBNZ d5	QuaF	+++++ 148035	724 672601	1440 1767411	10791	53439	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 903933	8348 3819286	15219 9879184	80641	370616	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Amyl acetate (mixed isomers)	DCBd 4	QuaF	+++++ 354973	2356 1588721	4029 4144757	26215	129982	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromobenzene	DCBd 4	Ave	+++++ 226752	2220 963266	4077 2499402	20758	92076	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 1069496	9791 4556602	18407 11764173	93733	437595	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 224448	2134 998324	3748 2601770	20164	88561	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 724929	7059 3104456	12793 8124127	65413	295776	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 908201	8631 3864538	15330 9923160	79599	372423	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 65536	549 282351	1111 720600	5853	26727	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 744553	6683 3181001	12449 8270477	65769	302153	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
trans-1,4-Dichloro-2-butene	DCBd 4	Qua2	+++++ 58497	343 277325	738 783987	5188	23102	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 661834	5995 2868170	11712 7510303	59481	270884	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 629765	6107 2678800	11075 6929660	55670	256693	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 265148	1460 1240970	3119 3277760	18689	96460	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 772923	7175 3332238	13313 8529454	66724	312339	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 954167	8968 4053545	16288 10448052	84233	390064	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 428075	3926 1847013	7413 4698187	37715	173022	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 809411	7512 3521904	13559 9012727	70283	329700	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 439281	4841 1872373	8476 4777077	40585	177943	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 795666	7365 3386331	13703 8616974	70657	322796	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Indan	DCBd 4	Ave	+++++ 801688	7536 3363408	13382 8434179	72824	323654	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzyl chloride	DCBd 4	QuaF	+++++ 60796	334 370503	731 987844	4108	21825	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 433647	3836 1879550	7132 4767037	37298	175566	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butylbenzene	DCBd 4	Ave	+++++ 730038	7124 3152591	12031 8117942	63183	295081	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 412648	3706 1770003	6967 4487637	36822	166728	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 756621	6550 3167766	11528 7883312	63038	301319	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 41955	258 195738	603 498853	3332	16415	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 296363	2888 1274561	5002 3166332	26447	121423	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 275760	2737 1206192	4540 3018811	23991	110261	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 99009	1024 426977	1893 1033700	8562	39471	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Naphthalene	DCBd 4	Ave	+++++ 646898	5665 2808082	11564 7091918	60085	258030	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501512

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/05/2018 23:04 Calibration End Date: 03/06/2018 02:10 Calibration ID: 66836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 241312	2067 1044766	4385 2590377	21699	97840	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromofluoromethane (Surr)	FB	Ave	163250 160934	159590 168872	160421 171798	158227	162750	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	180538 182314	179616 192399	179822 206378	180026	179229	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	694832 705139	690468 727100	689004 750254	683184	697093	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	199719 206927	200380 214499	200035 217549	200354	206487	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Mar-2018 23:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0068378-003
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:19:59 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 05-Mar-2018 22:46:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	330871	1000.0	1000.0	
35 Acrylonitrile	53	2.389	2.382	0.007	93	3029	2.00	2.03	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	163250	50.0	50.8	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	323737	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	180538	50.0	49.6	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	394452	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	33023	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	694832	50.0	50.8	
80 Epichlorohydrin	57	5.333	5.312	0.021	93	1203	5.00	3.56	
* 92 Chlorobenzene-d5	117	7.109	7.110	-0.001	86	476405	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	199719	50.0	50.0	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	276753	50.0	50.0	

Reagents:

14DIOXINTER_00082	Amount Added:	0.00	Units: uL	
MIX I Hi_00087	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	0.00	Units: uL	
GAS Hi_00243	Amount Added:	0.00	Units: uL	
ACROLEIN W_00074	Amount Added:	0.00	Units: uL	
Ethanol mix_00012	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00046	Amount Added:	2.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Mar-2018 11:20:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D

Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13 Operator ID:

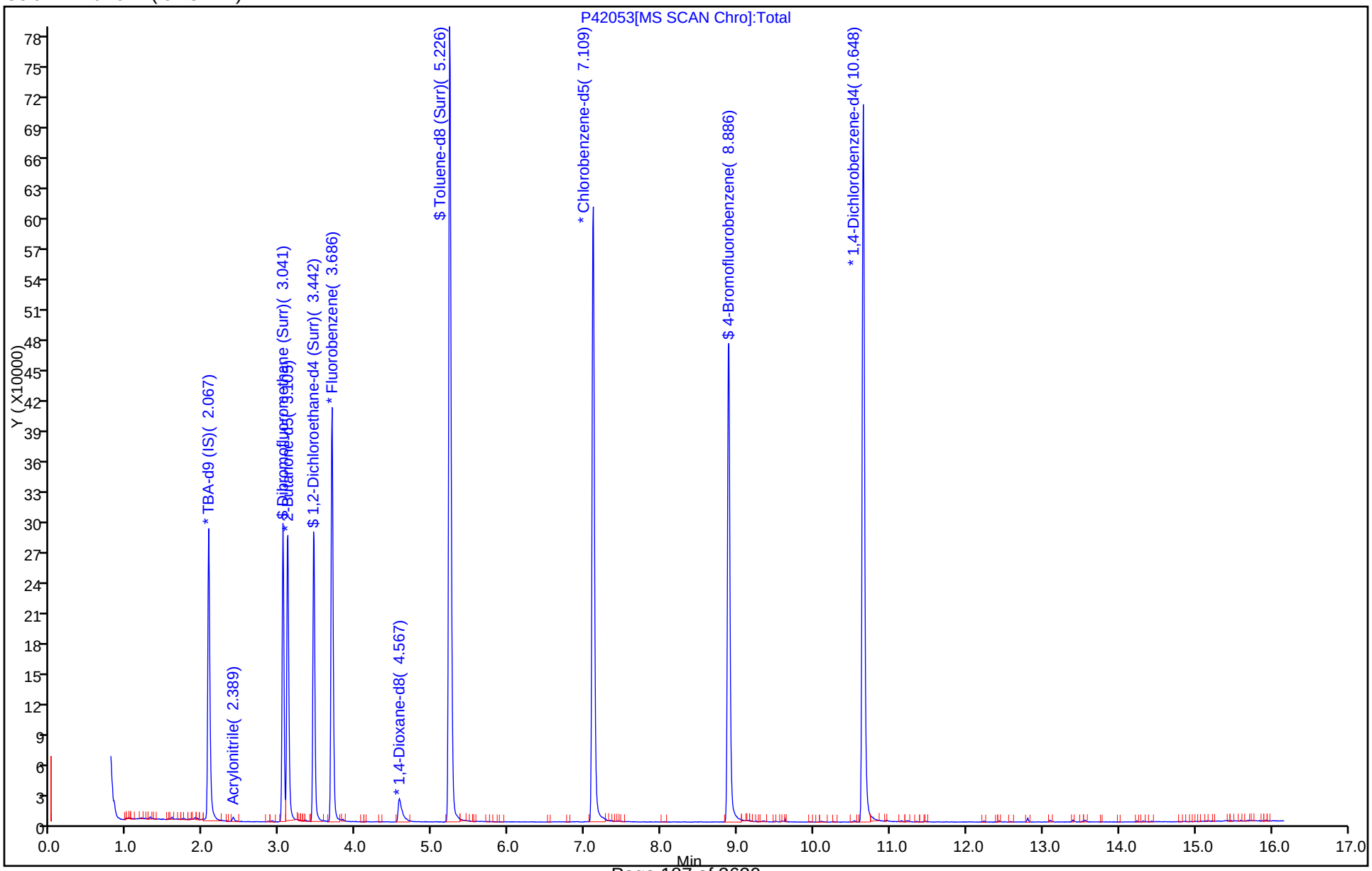
Lims ID: STD8 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



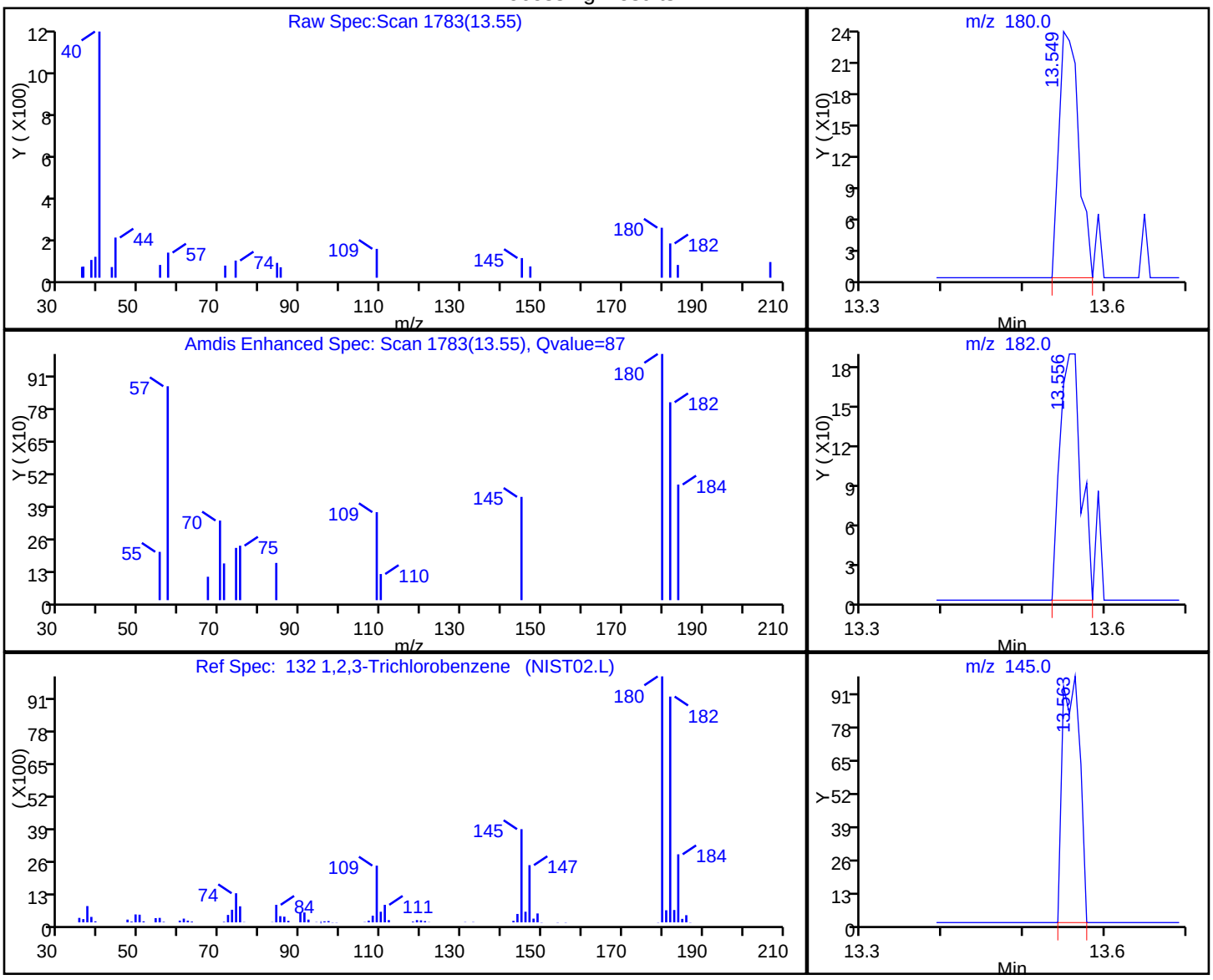
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.55	180.00	402	0.089906
13.56	182.00	338	
13.56	145.00	145	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

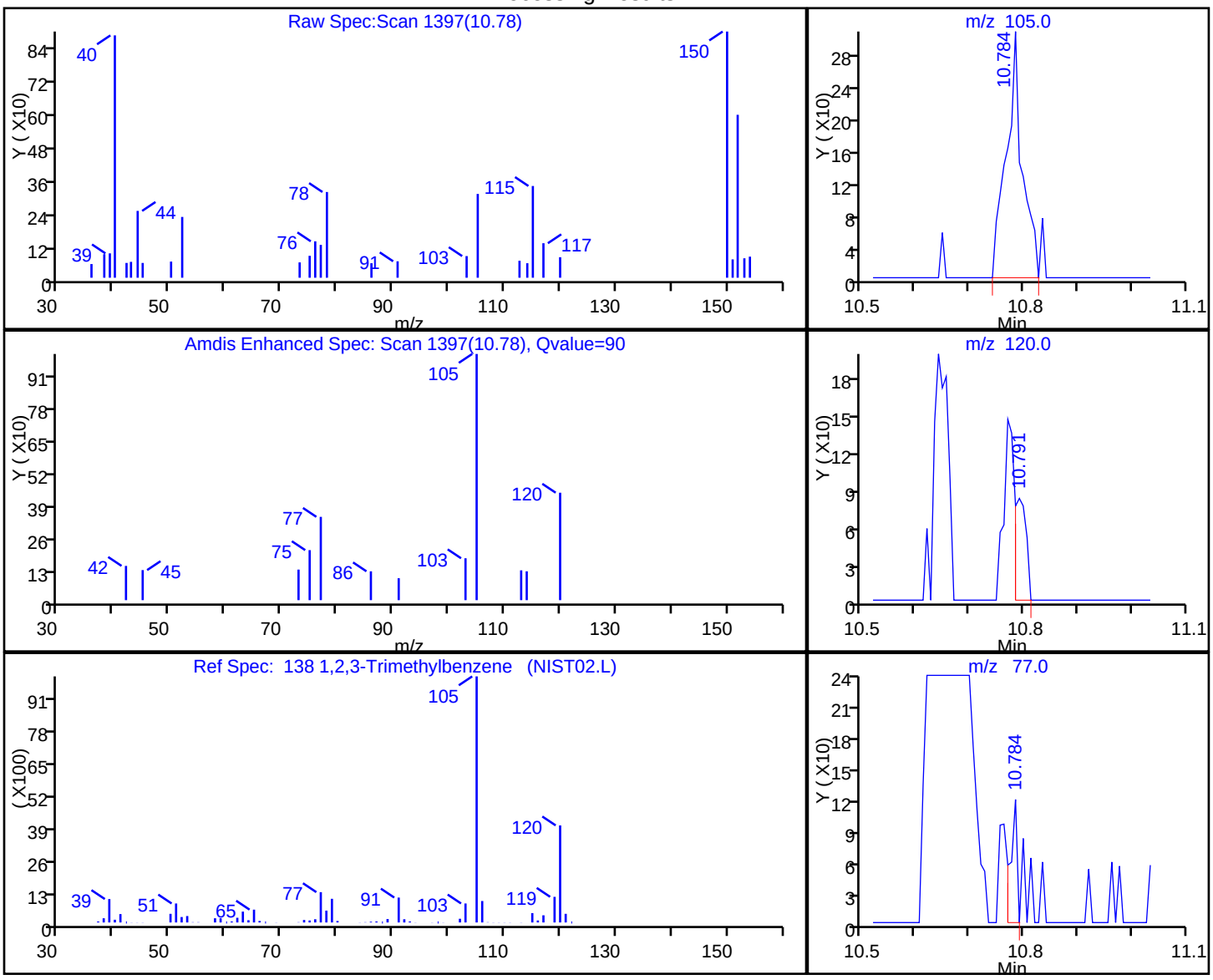
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

138 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.78	105.00	632	0.042866
10.79	120.00	121	
10.78	77.00	101	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

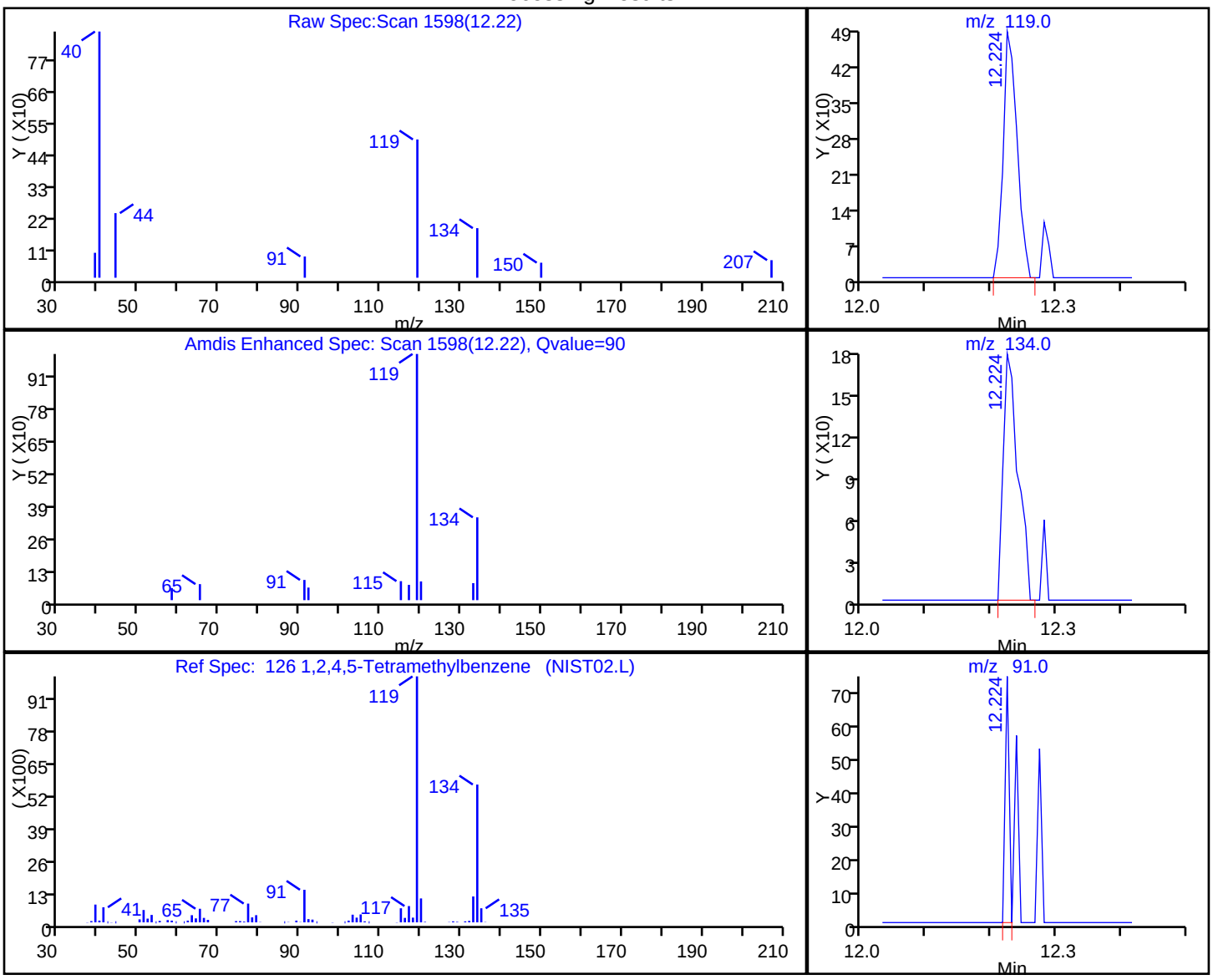
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

126 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
12.22	119.00	726	0.054168
12.22	134.00	277	
12.22	91.00	32	

Reviewer: baronm, 07-Mar-2018 08:45:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

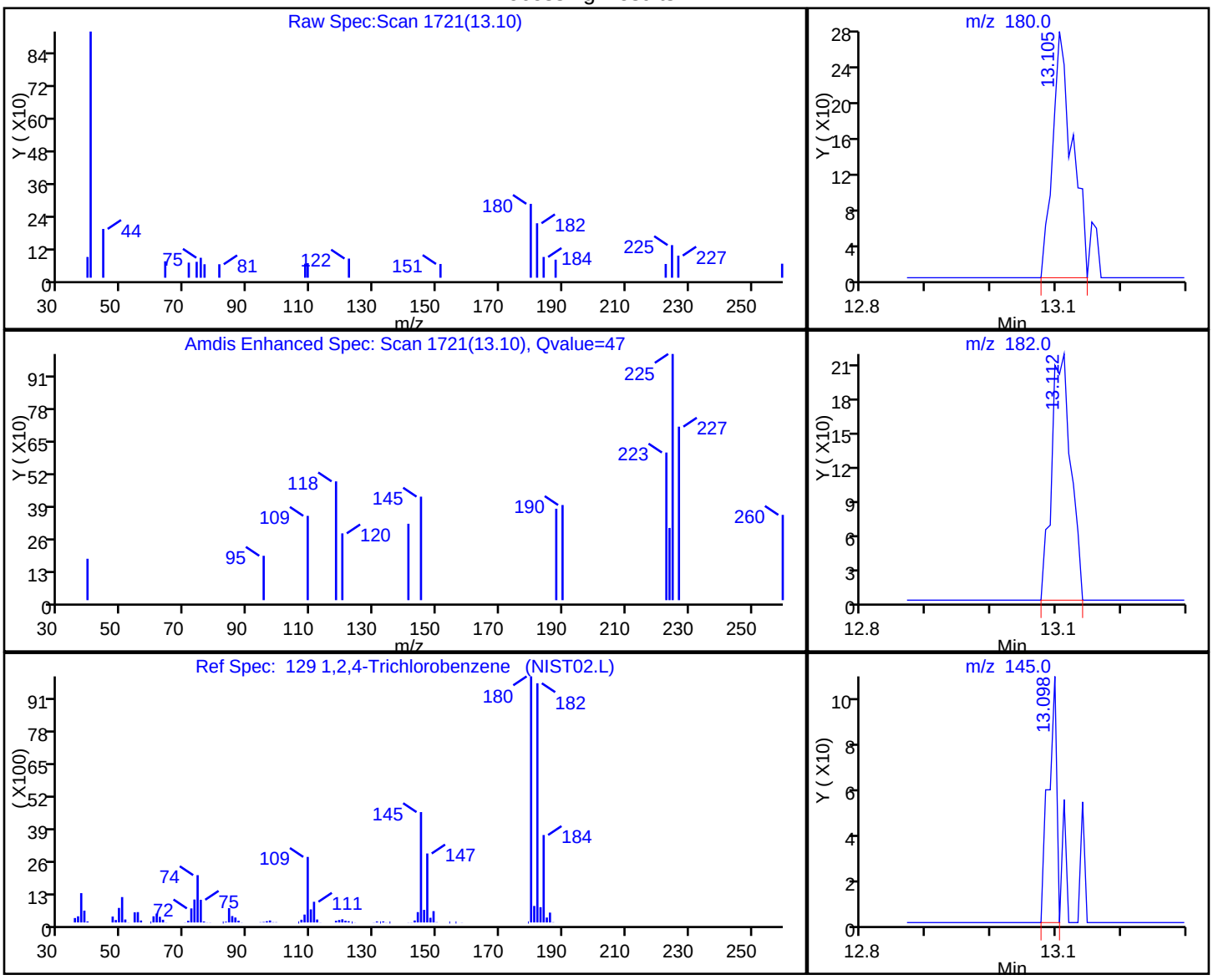
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

129 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.10	180.00	577	0.112367
13.11	182.00	455	
13.10	145.00	91	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

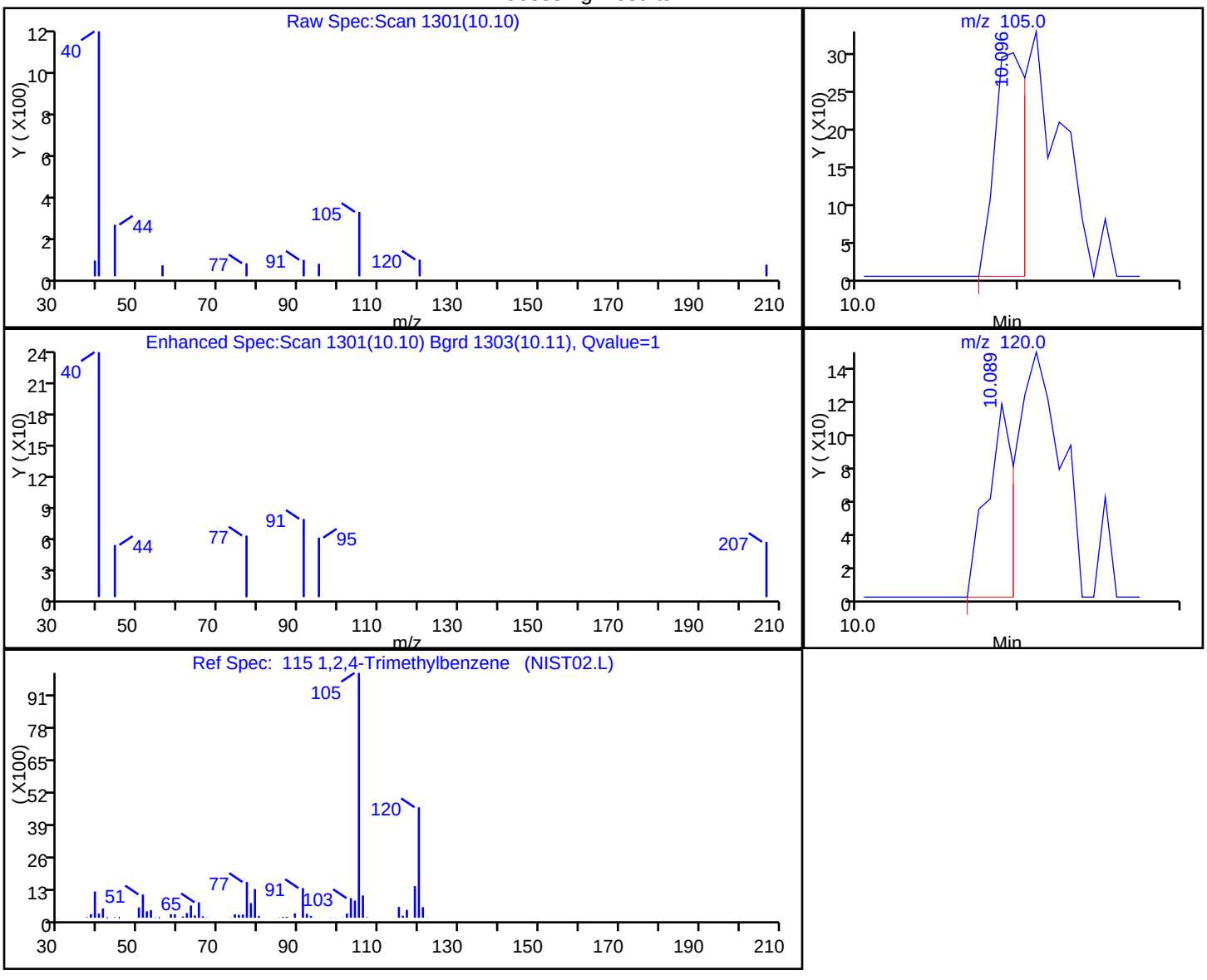
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.10	105.00	405	0.028254
10.09	120.00	127	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

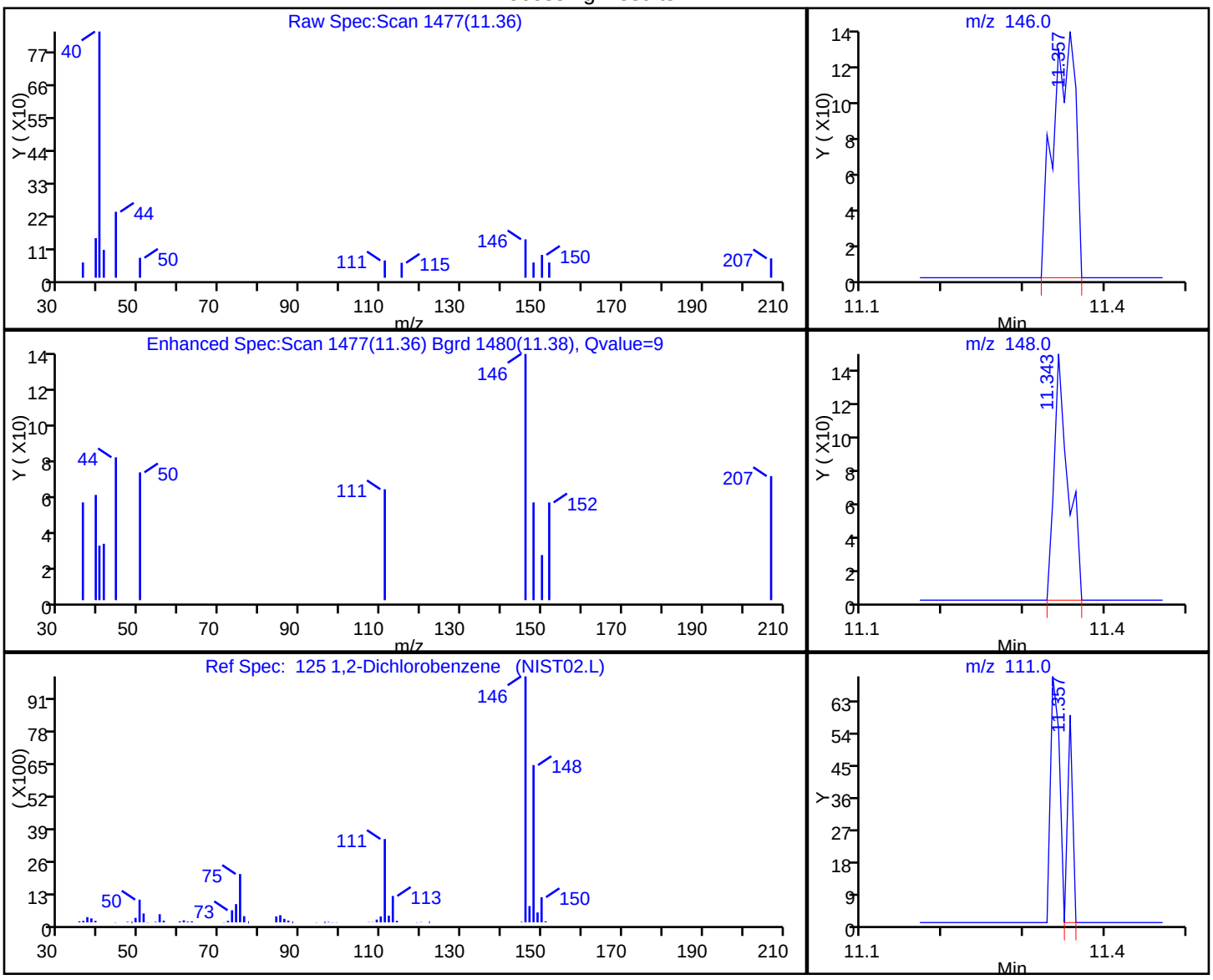
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

125 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
11.36	146.00	250	0.032865
11.34	148.00	181	
11.36	111.00	25	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

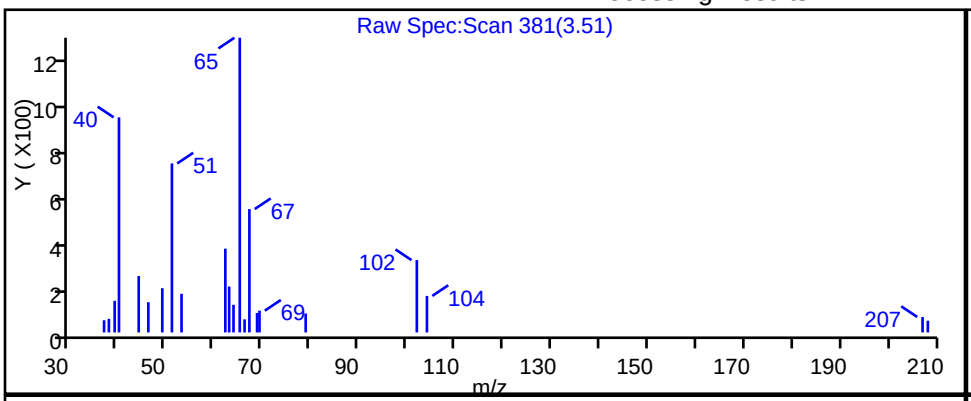
User Disabled Compound Report

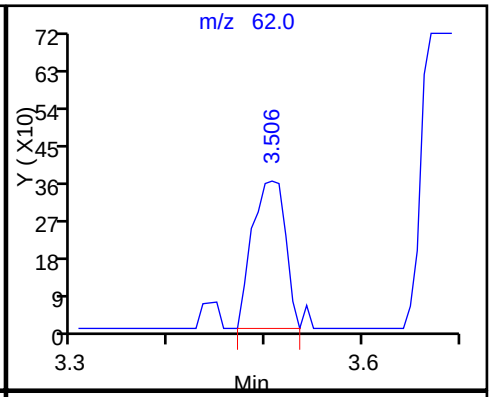
TestAmerica Edison

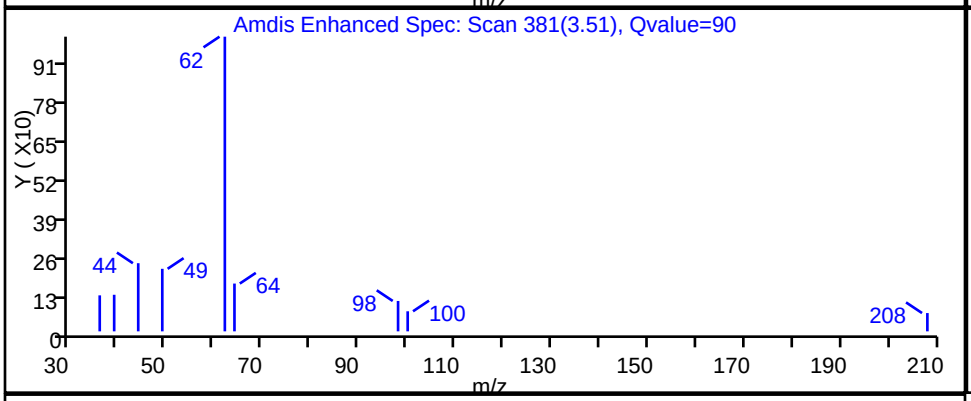
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

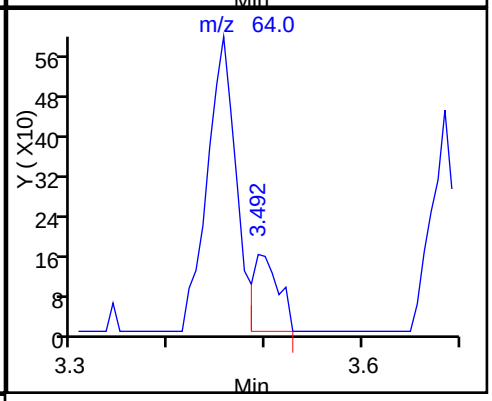
59 1,2-Dichloroethane, CAS: 107-06-2

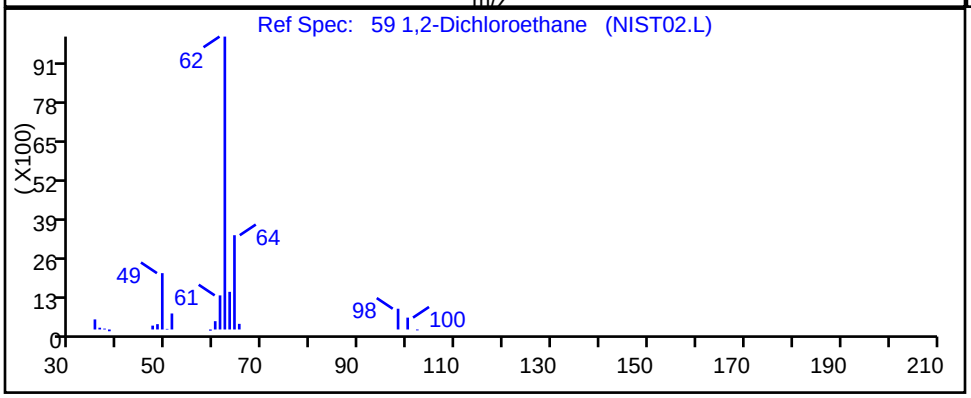
Processing Results











RT	Mass	Response	Amount
3.51	62.00	853	0.177159
3.49	64.00	293	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

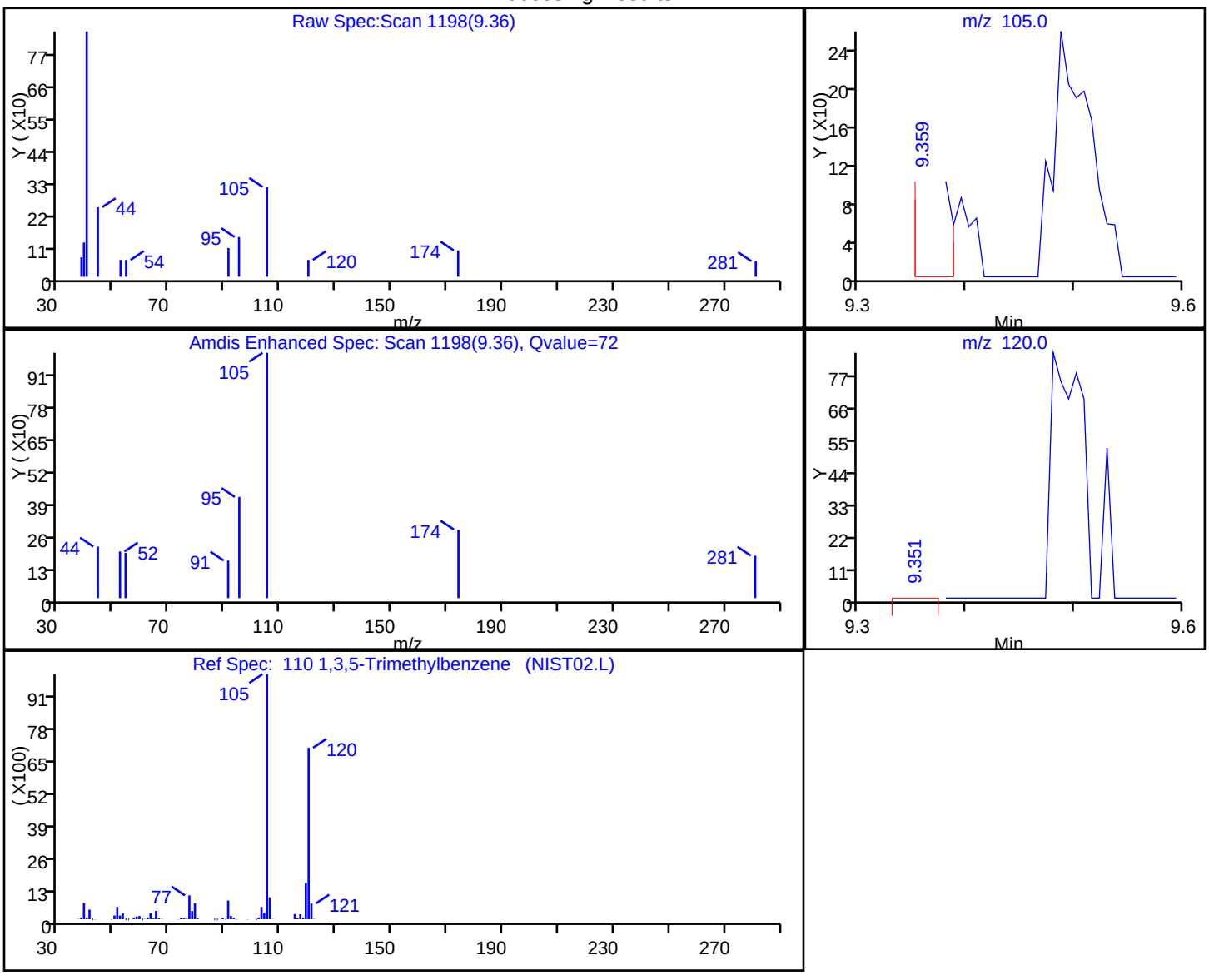
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

110 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
9.36	105.00	452	0.032917
9.35	120.00	168	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

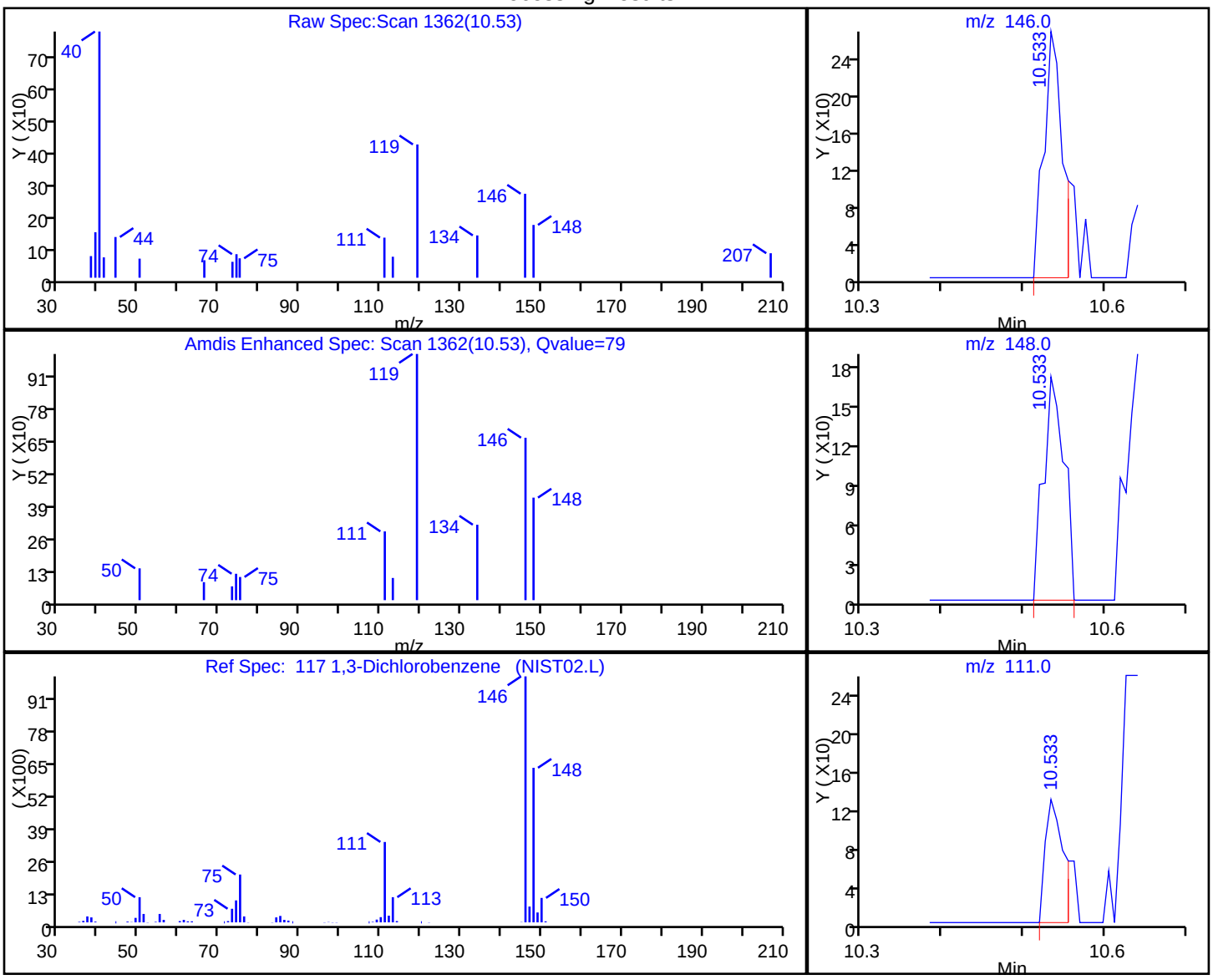
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

117 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.53	146.00	417	0.052473
10.53	148.00	294	
10.53	111.00	194	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

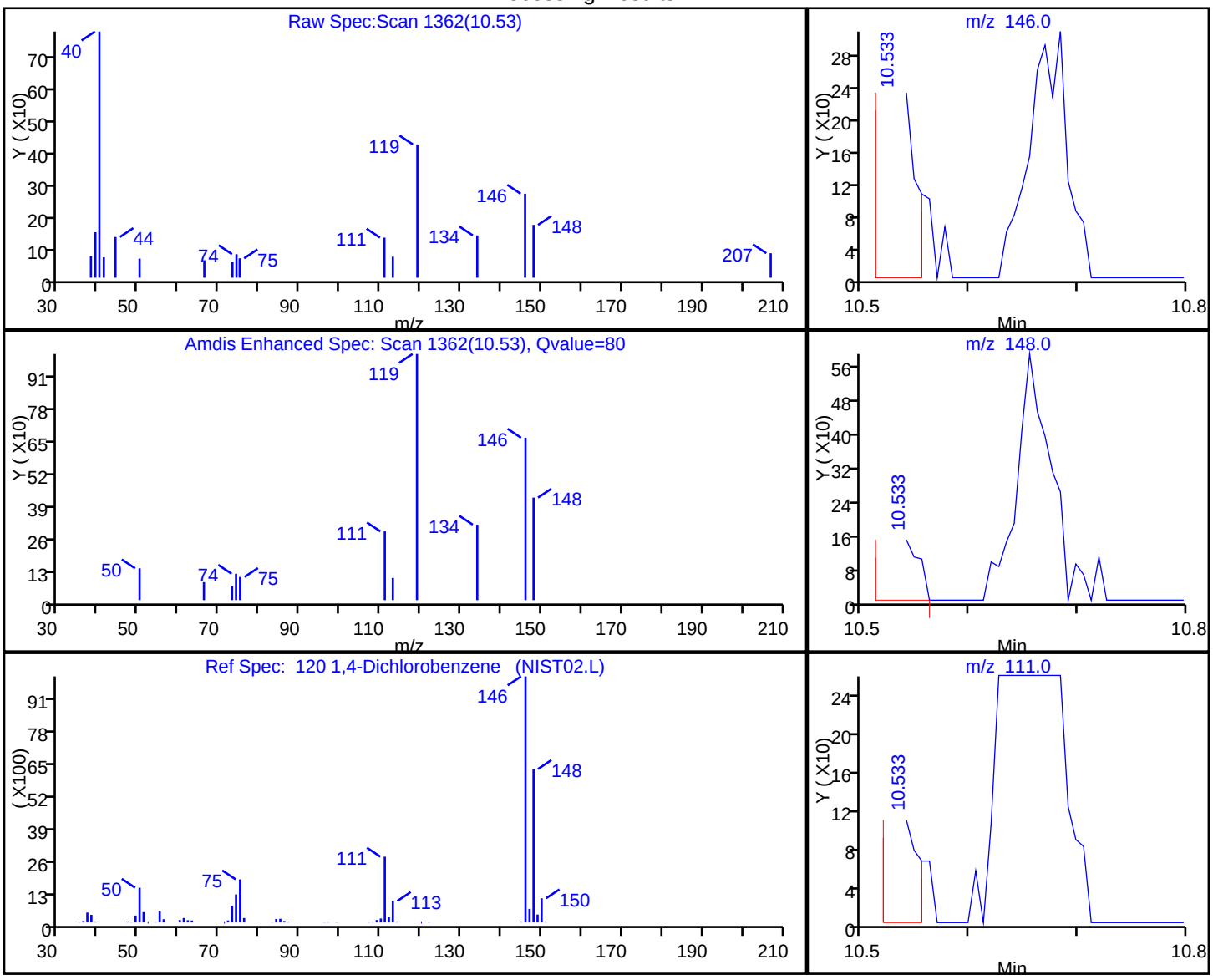
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
10.53	146.00	417	0.048804
10.53	148.00	294	
10.53	111.00	194	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

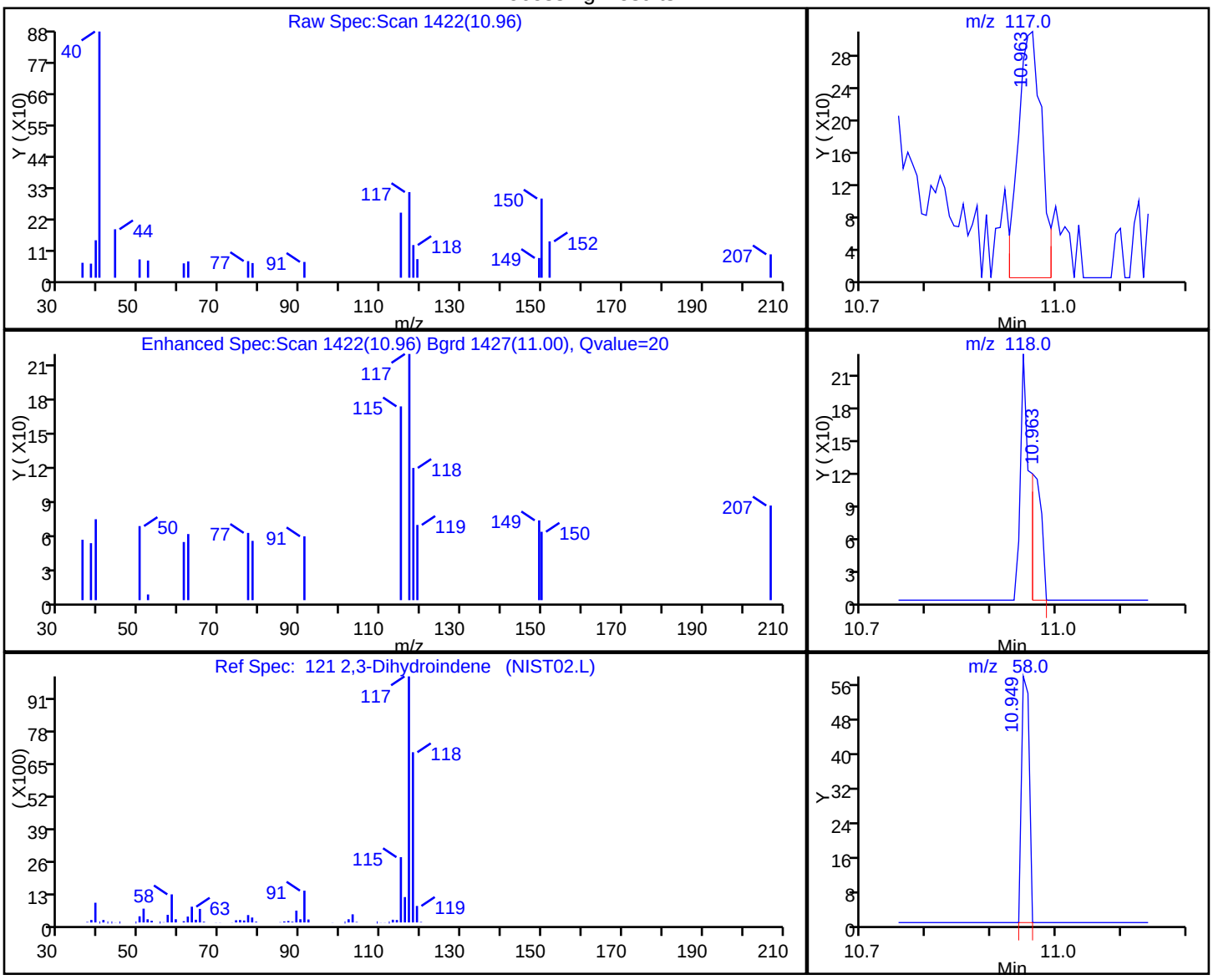
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.96	117.00	767	0.051947
10.96	118.00	132	
10.95	58.00	48	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

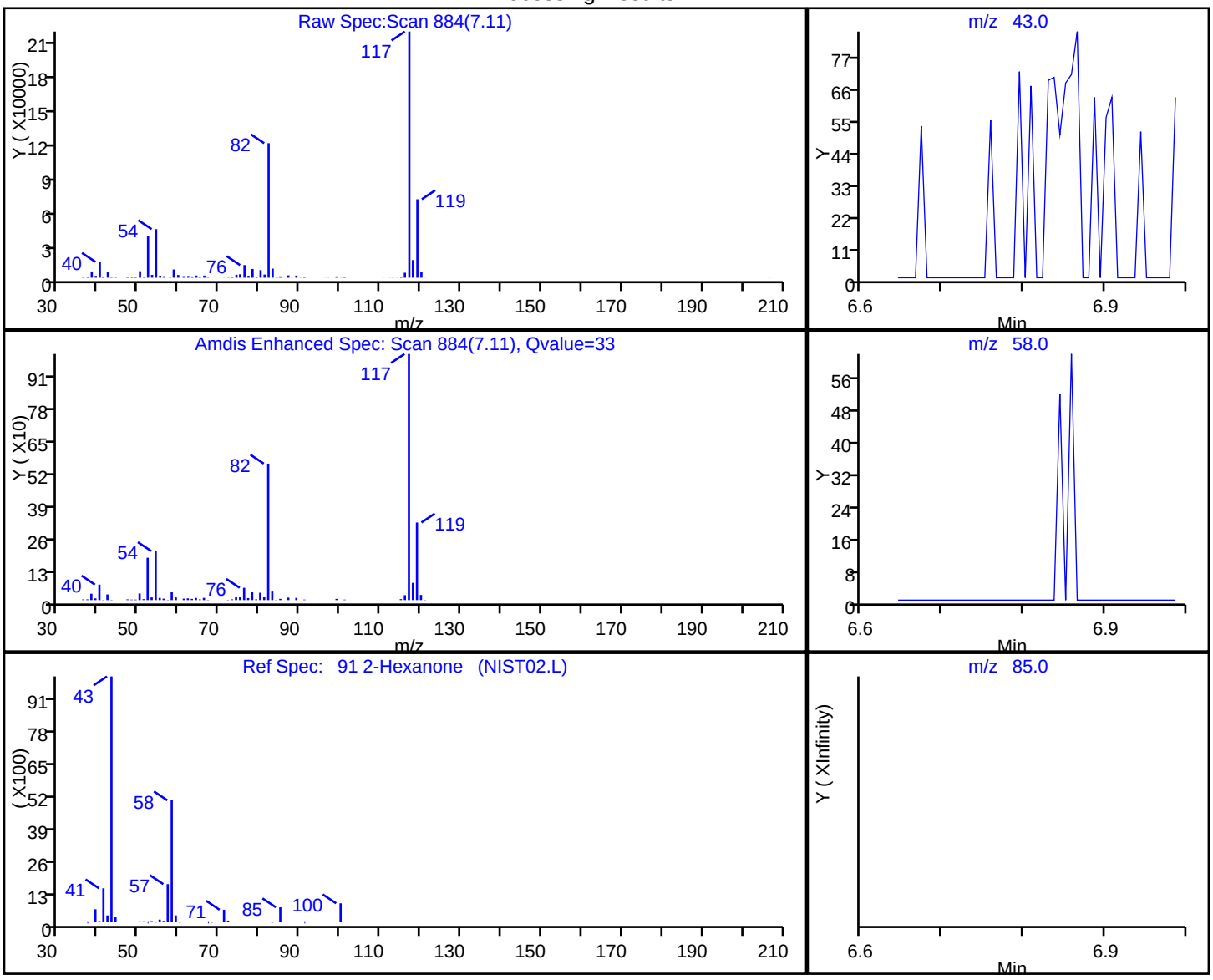
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

91 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.11	43.00	431	0.172242
7.11	58.00	15962	
7.11	85.00	2616	
7.10	100.00	92	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

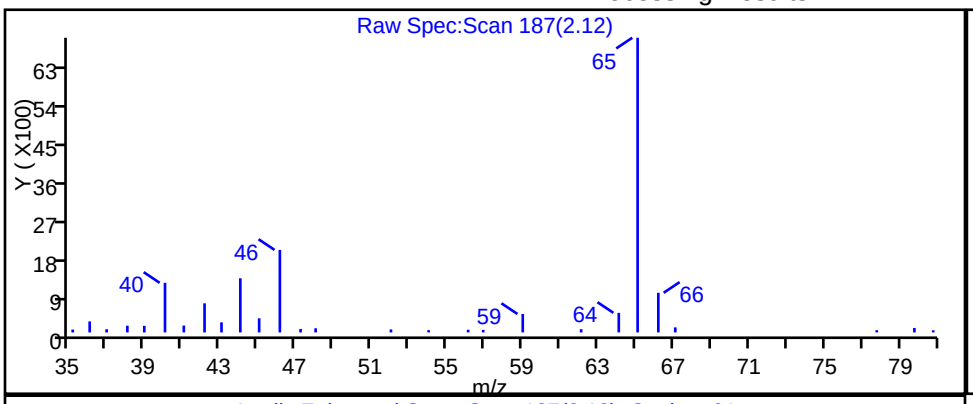
User Disabled Compound Report

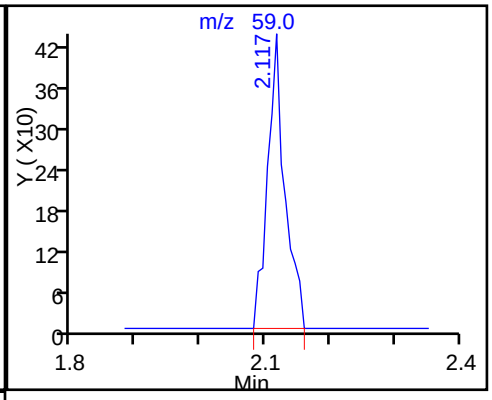
TestAmerica Edison

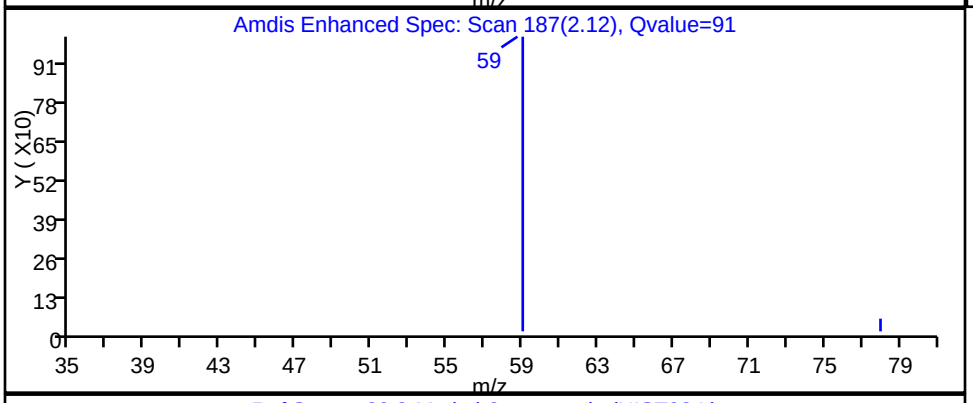
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

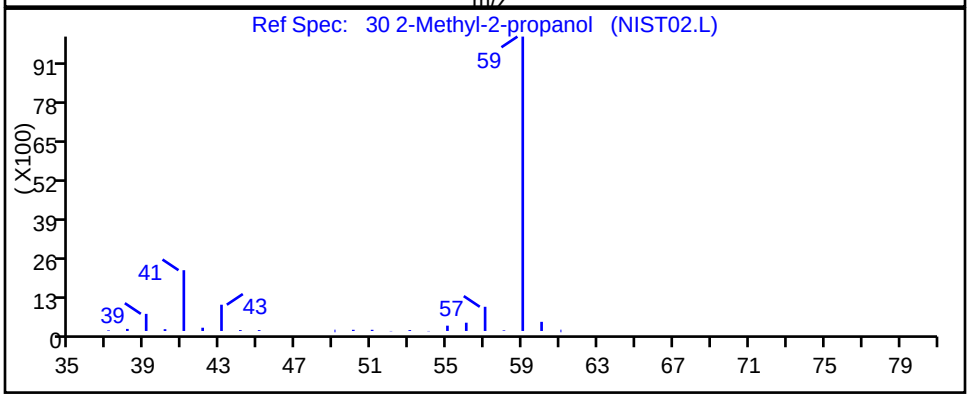
30 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
2.12	59.00	806	2.056928

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

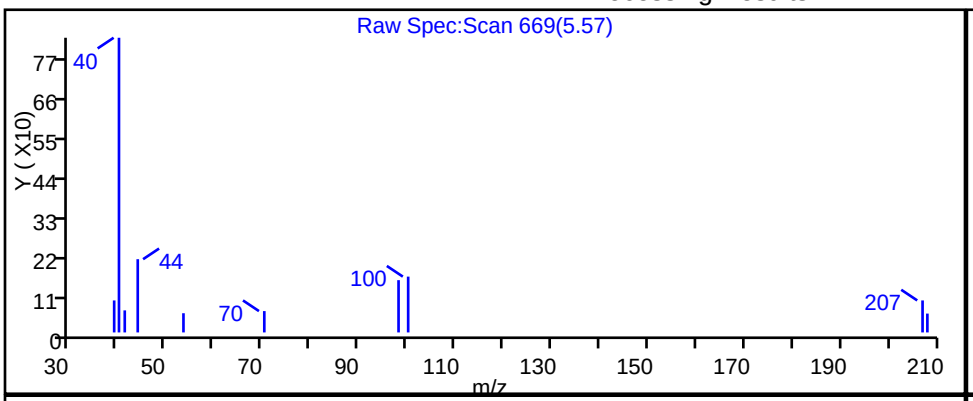
User Disabled Compound Report

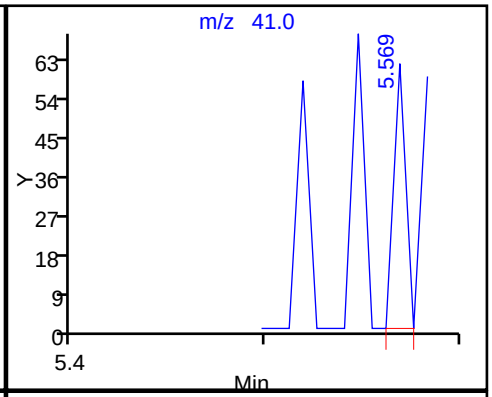
TestAmerica Edison

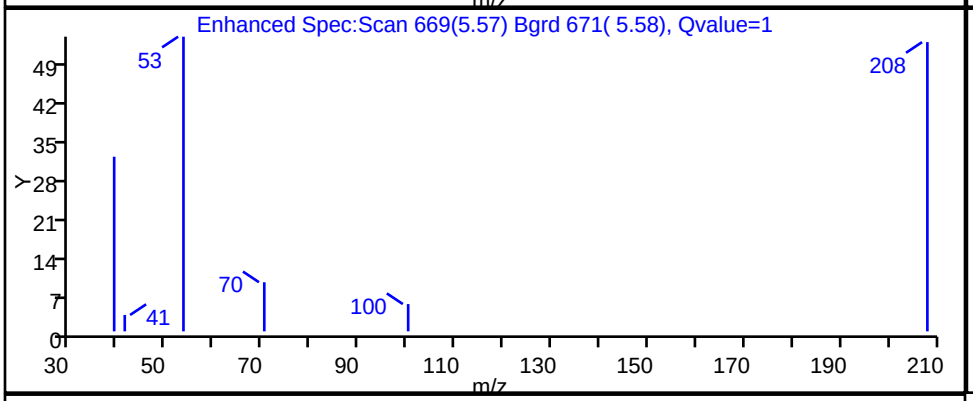
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D				
Injection Date:	05-Mar-2018 23:04:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

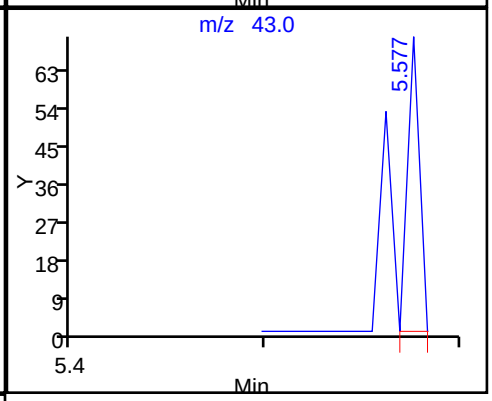
81 2-Nitropropane, CAS: 79-46-9

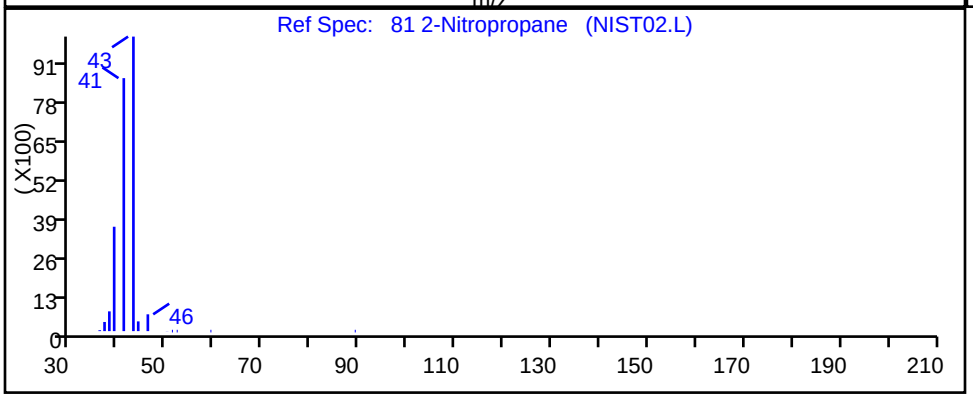
Processing Results











RT	Mass	Response	Amount
5.57	41.00	27	0.035089
5.58	43.00	31	

Reviewer: desais, 06-Mar-2018 11:30:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

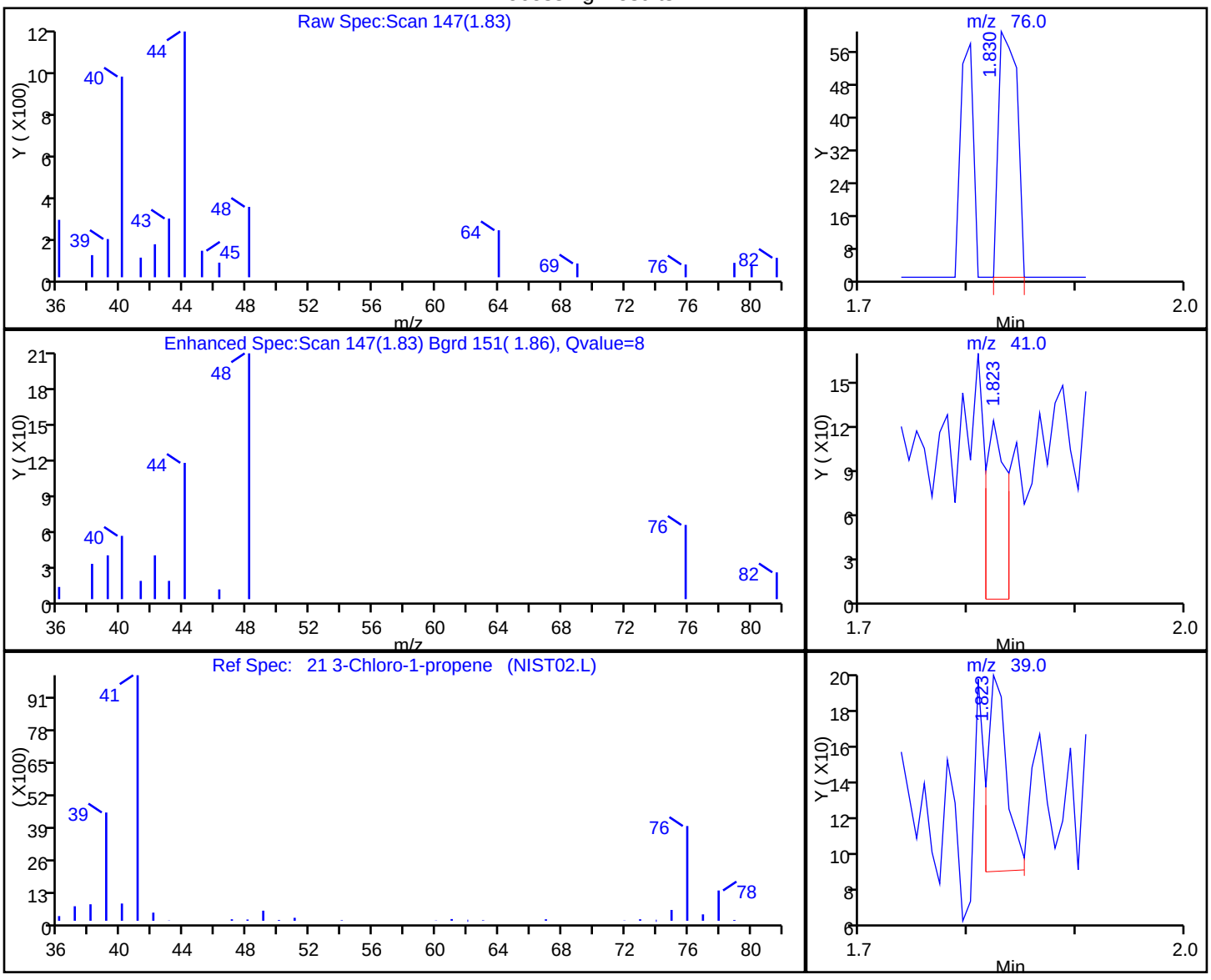
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
1.83	76.00	73	0.034136
1.82	41.00	168	
1.82	39.00	124	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

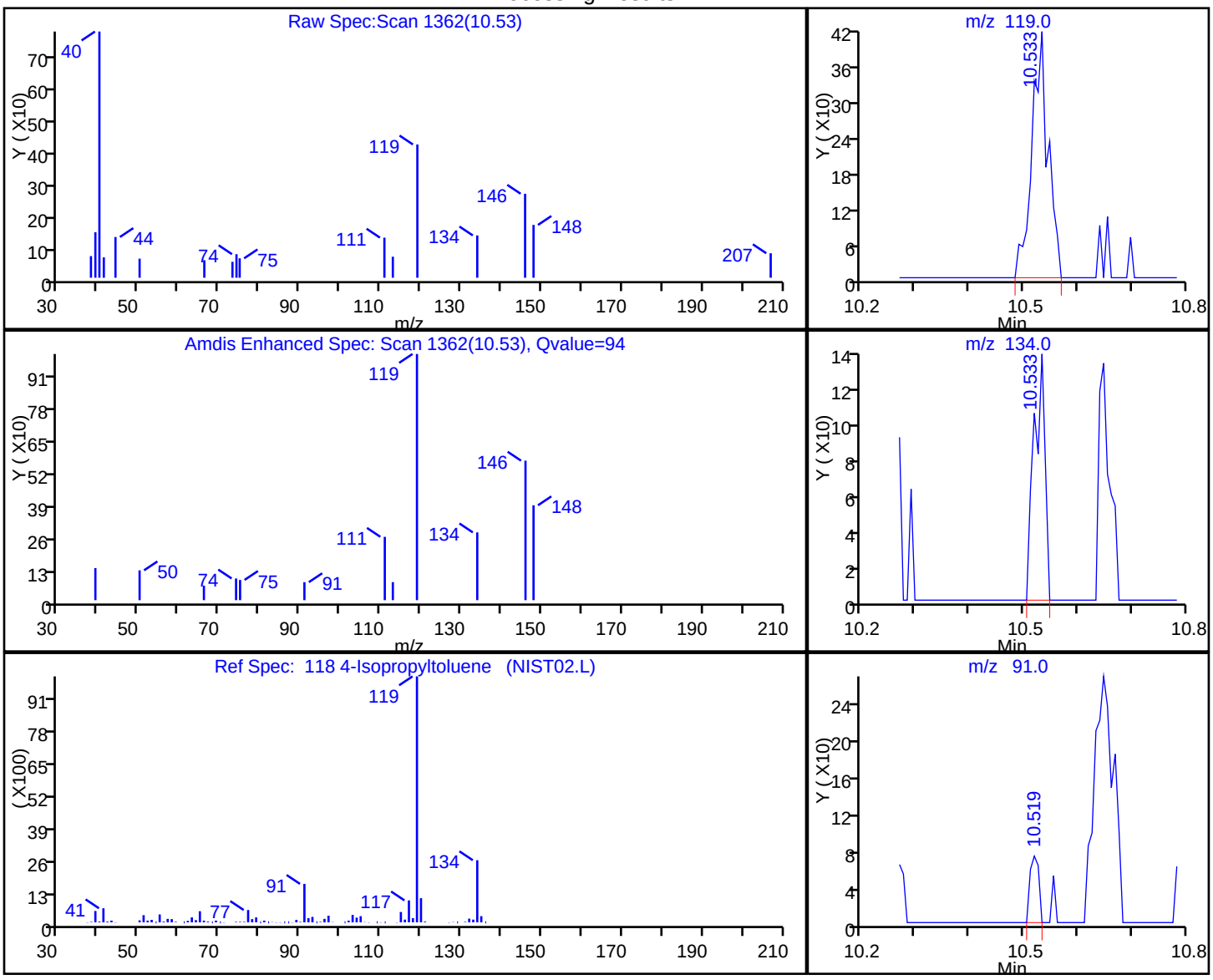
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
10.53	119.00	875	0.058244
10.53	134.00	189	
10.52	91.00	81	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

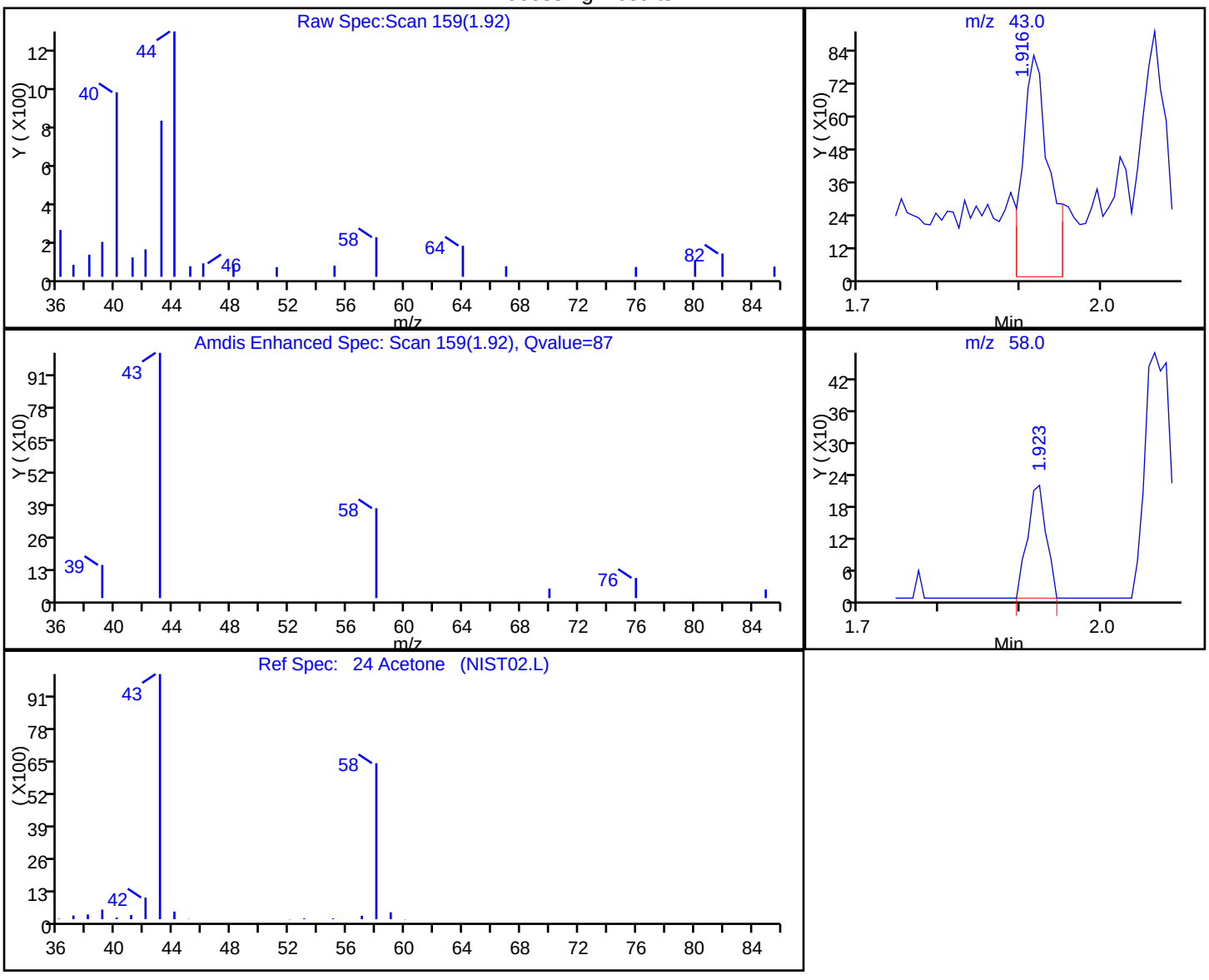
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
1.92	43.00	1832	1.444133
1.92	58.00	349	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

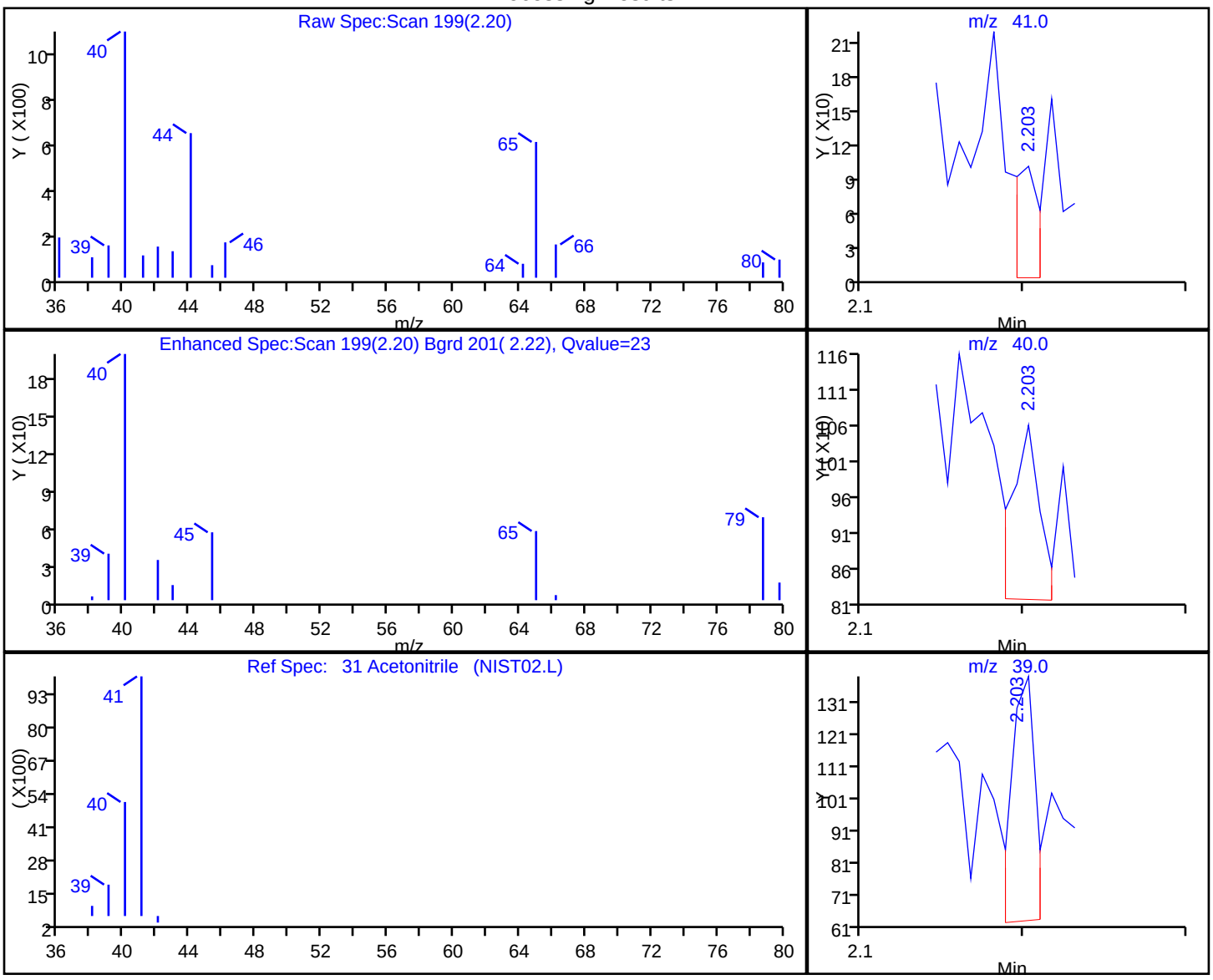
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

31 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.20	41.00	104	0.193615
2.20	40.00	296	
2.20	39.00	82	
2.20	38.00	238	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

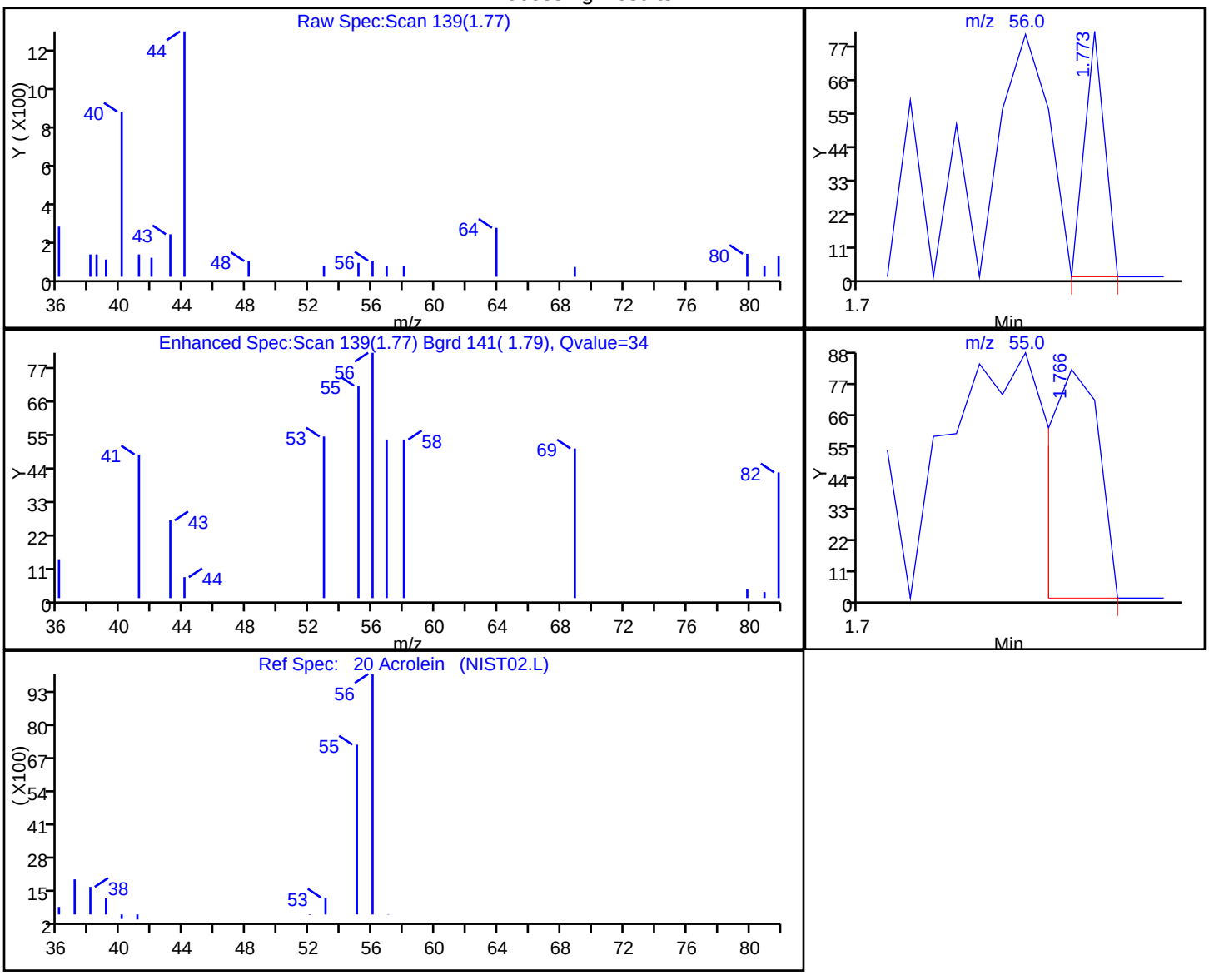
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
1.77	56.00	35	0.058891
1.77	55.00	92	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

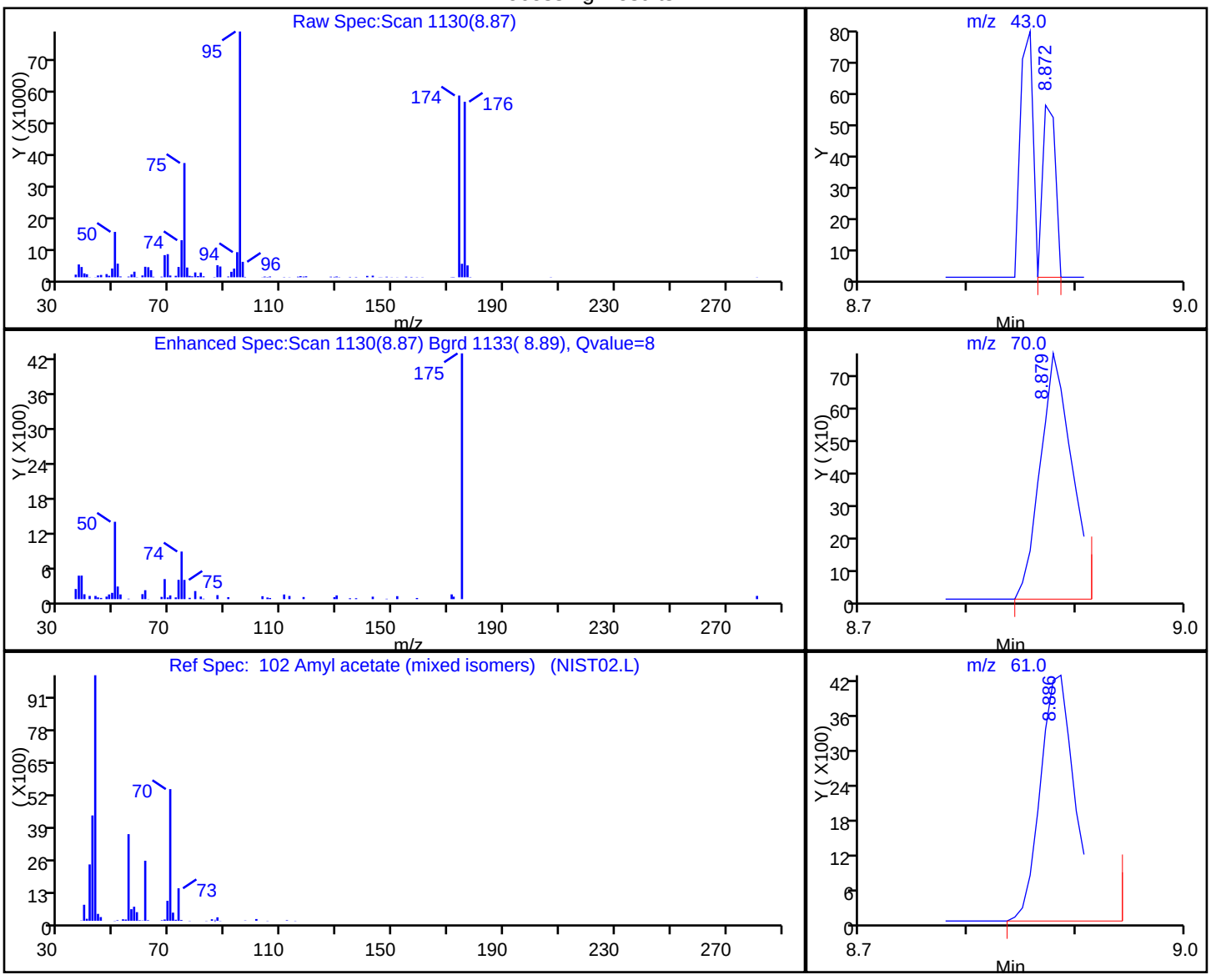
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Processing Results



RT	Mass	Response	Amount
8.87	43.00	46	0.006571
8.88	70.00	1554	
8.89	61.00	9716	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

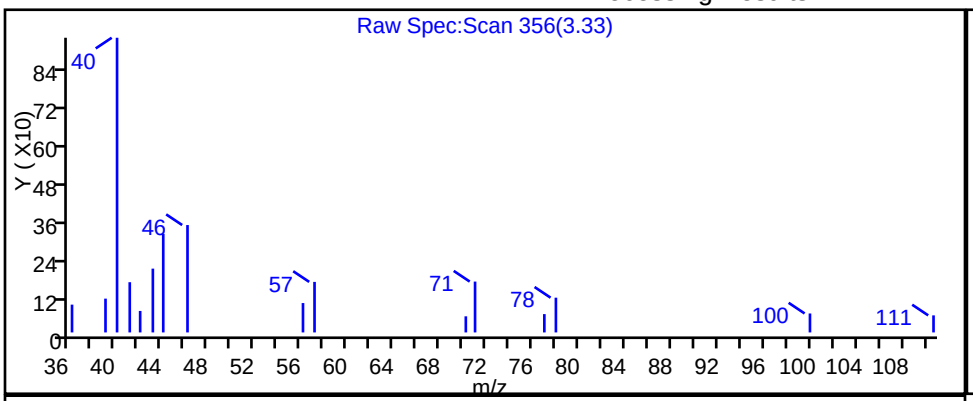
User Disabled Compound Report

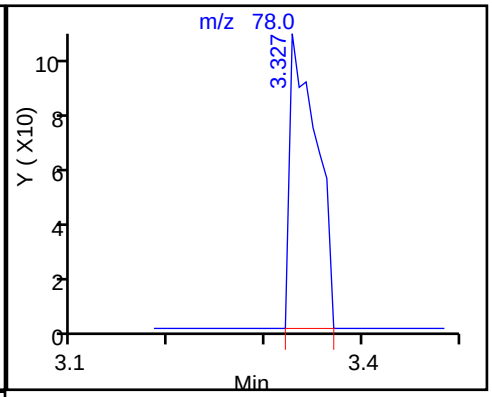
TestAmerica Edison

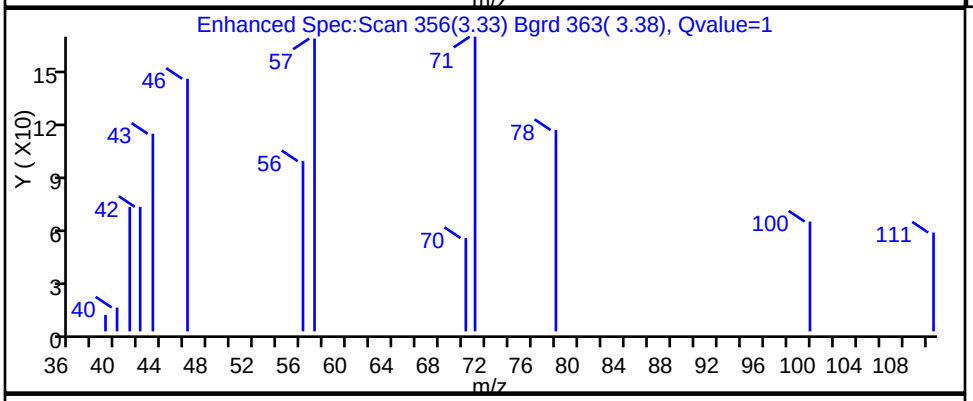
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

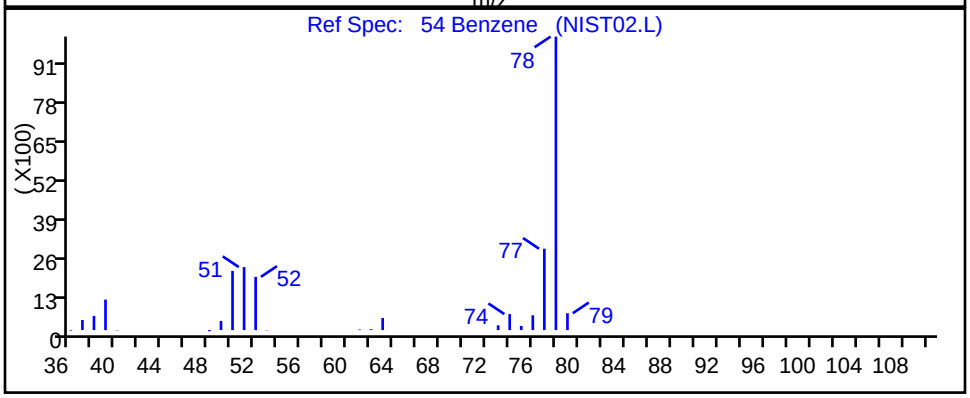
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.33	78.00	210	0.013995

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

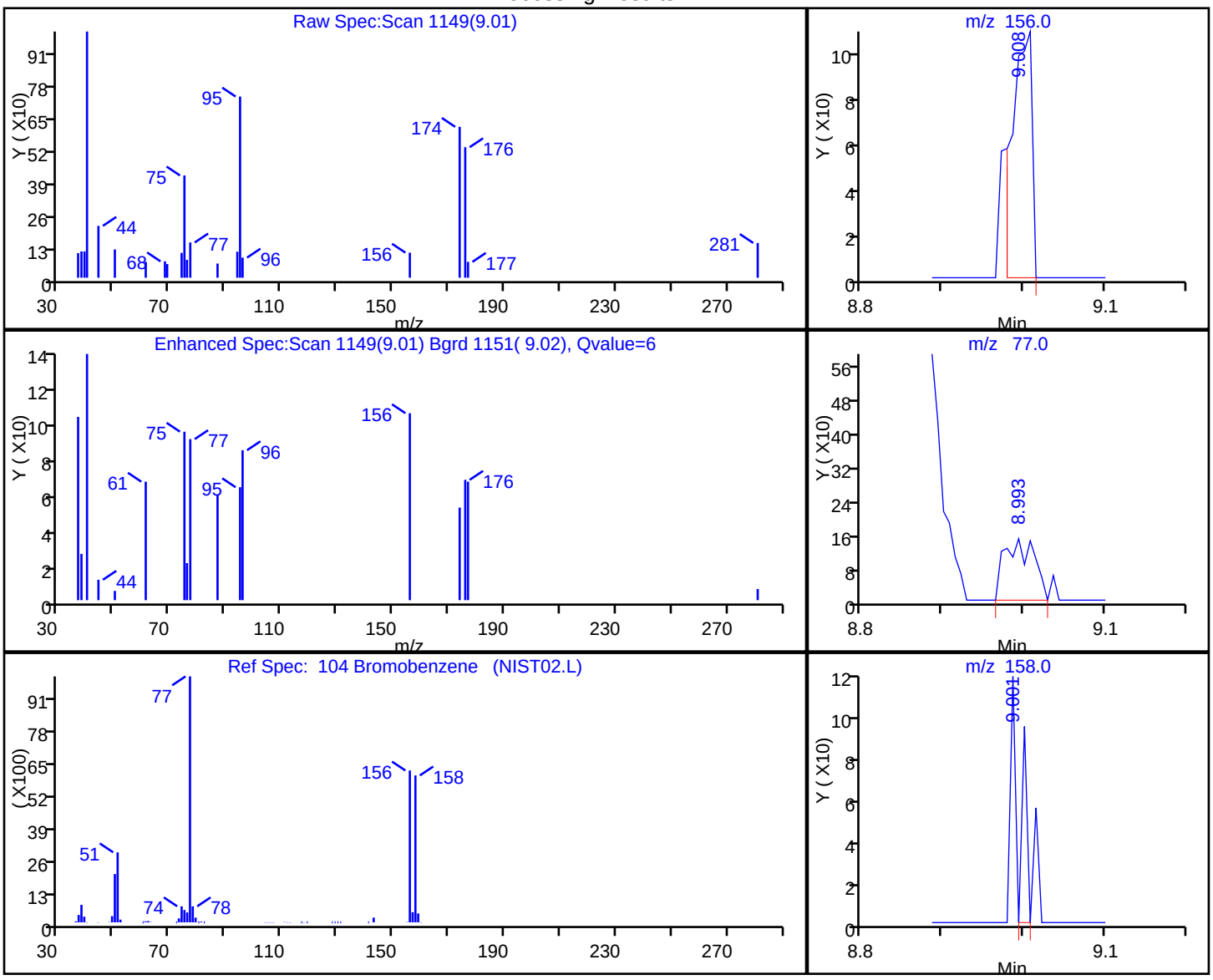
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
9.01	156.00	171	0.039868
8.99	77.00	374	
9.00	158.00	40	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

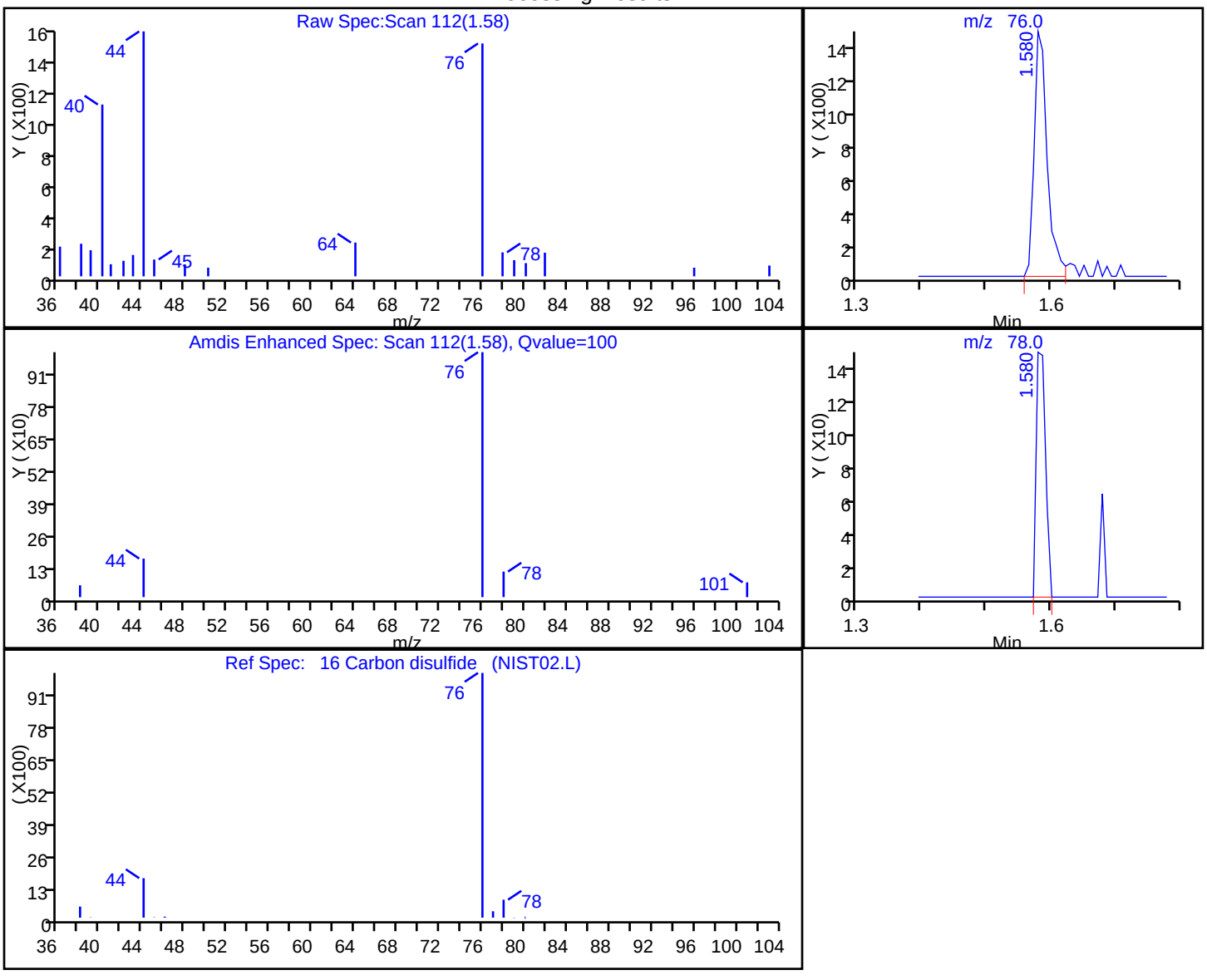
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D				
Injection Date:	05-Mar-2018 23:04:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

16 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
1.58	76.00	2012	0.160648
1.58	78.00	149	

Reviewer: desais, 06-Mar-2018 11:30:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

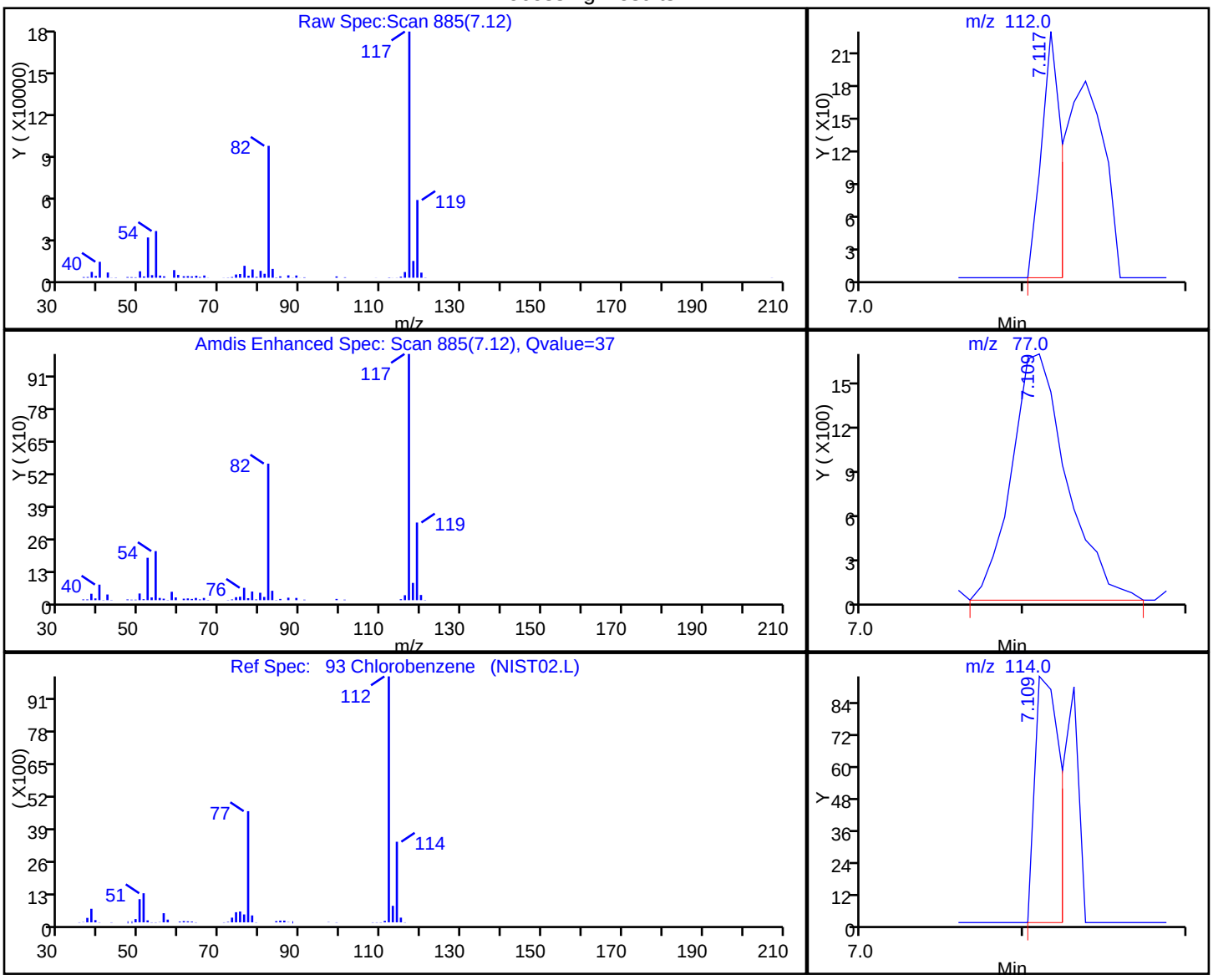
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

93 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
7.12	112.00	189	0.018462
7.11	77.00	4005	
7.11	114.00	104	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

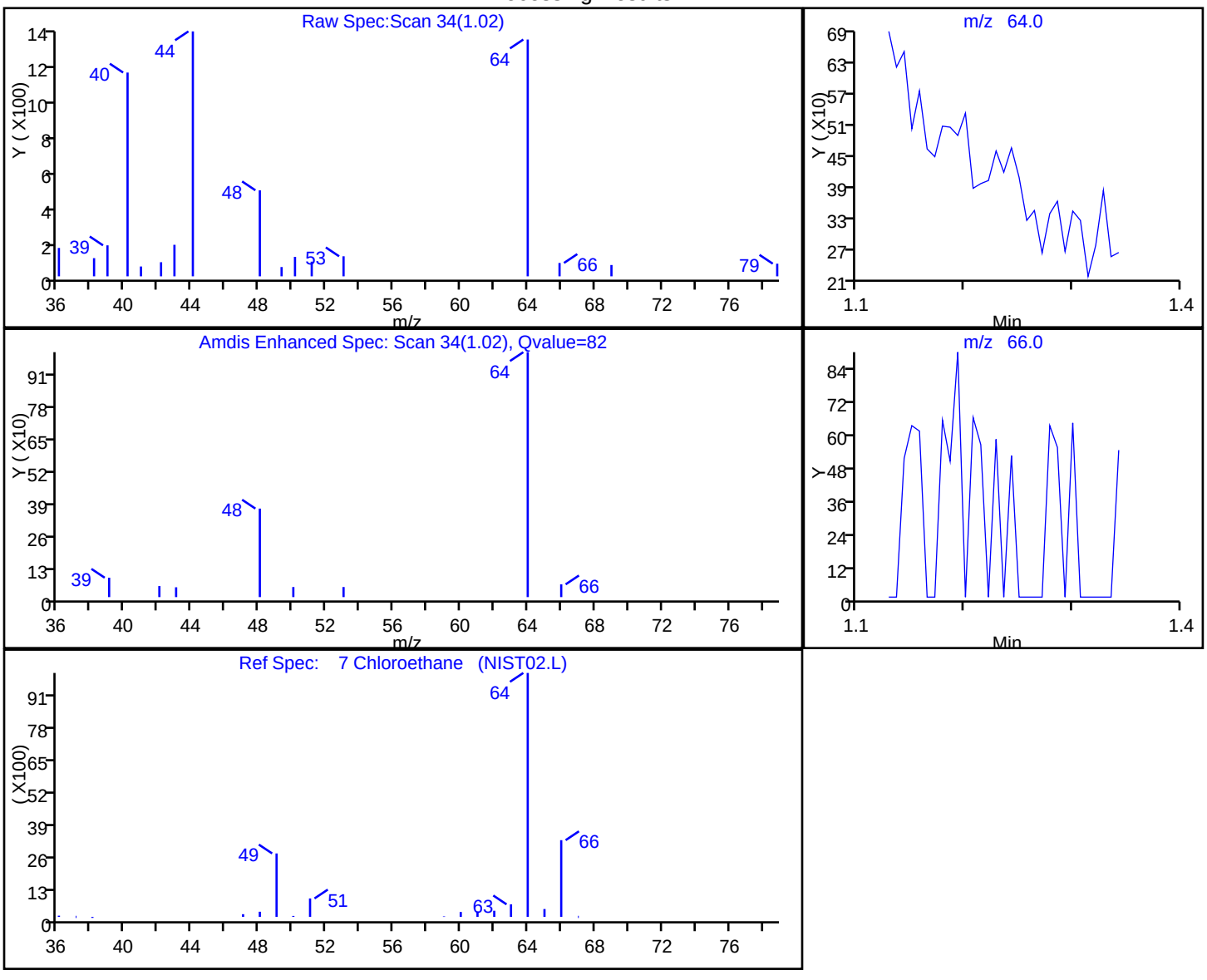
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.02	64.00	330	0.108414
1.01	66.00	38	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

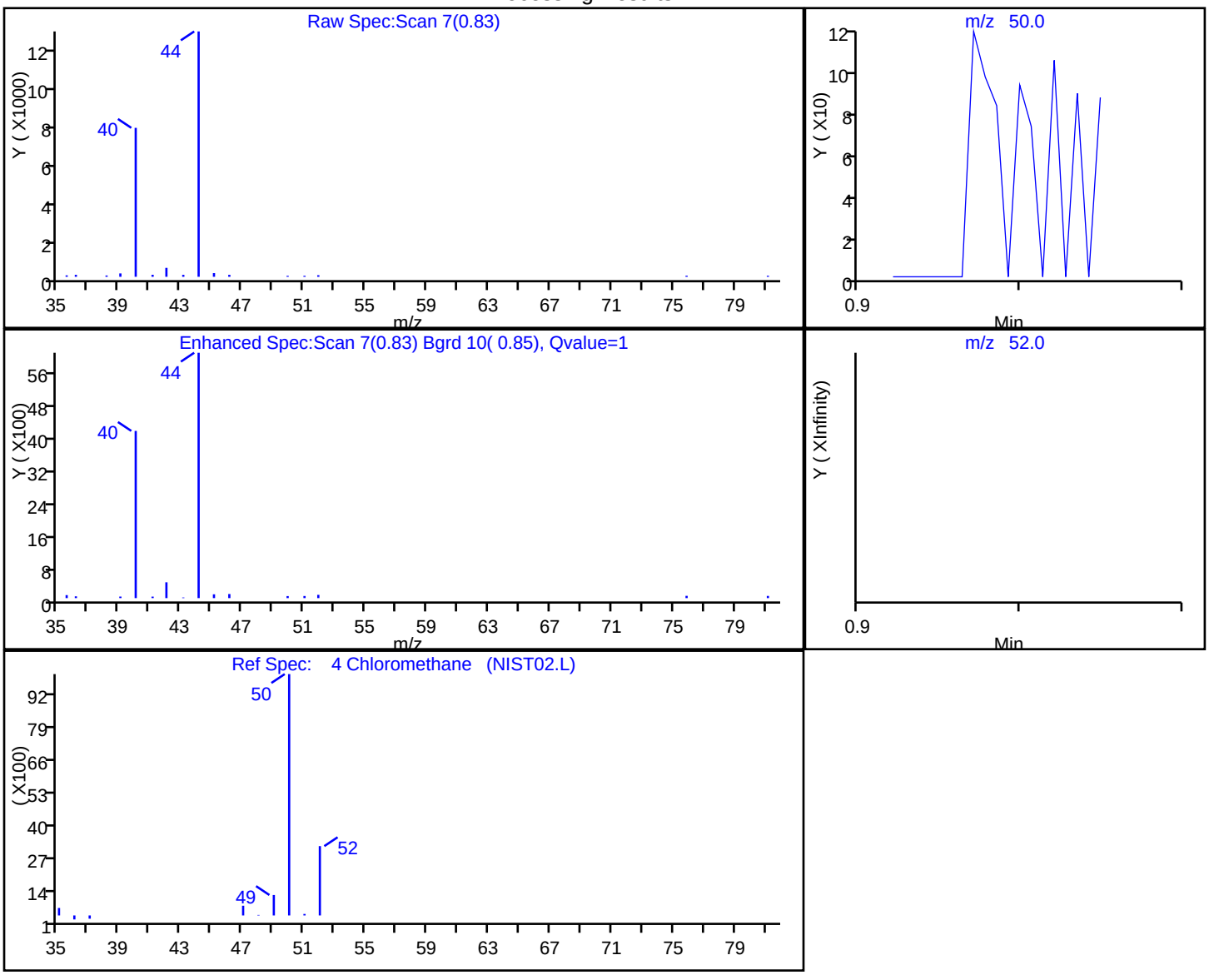
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.83	50.00	21	0.005540
0.83	52.00	90	

Reviewer: baronm, 07-Mar-2018 08:45:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

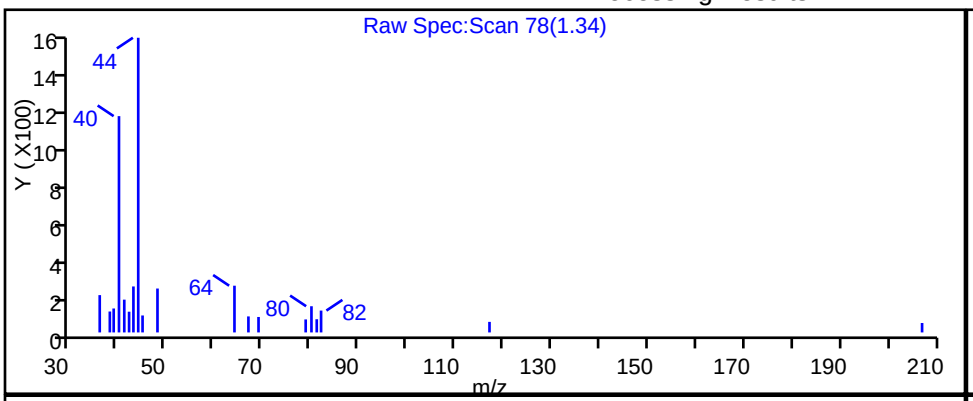
User Disabled Compound Report

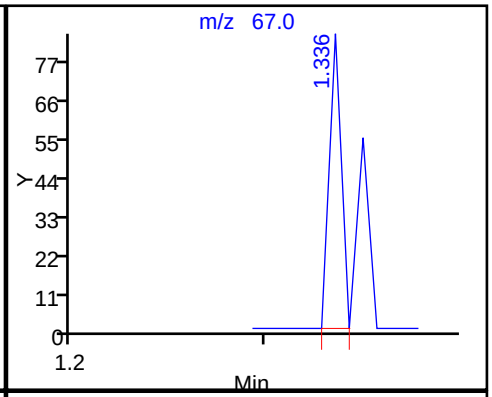
TestAmerica Edison

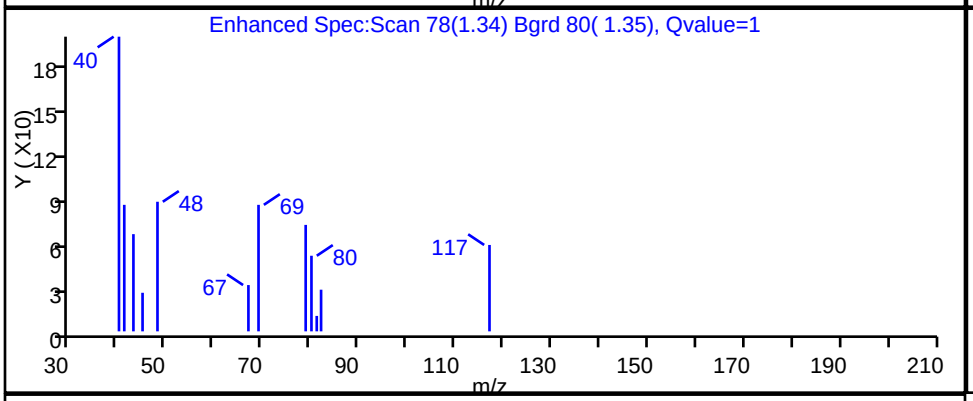
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D				
Injection Date:	05-Mar-2018 23:04:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

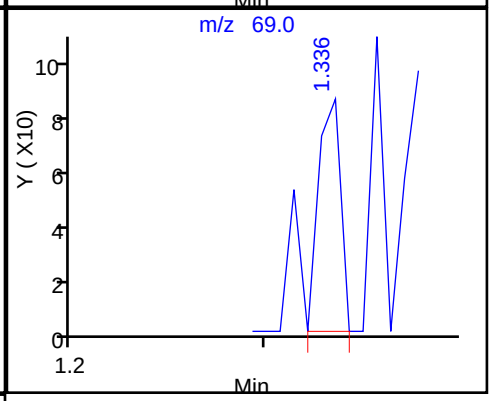
10 Dichlorofluoromethane, CAS: 75-43-4

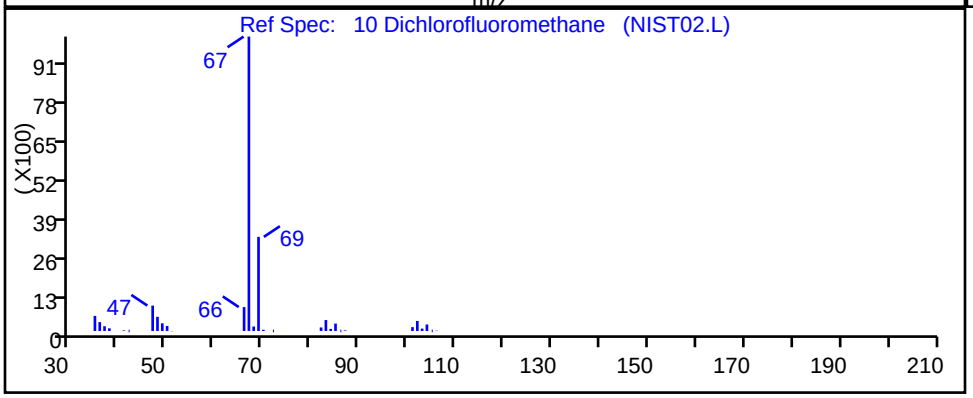
Processing Results











RT	Mass	Response	Amount
1.34	67.00	37	0.005855
1.34	69.00	65	

Reviewer: desais, 06-Mar-2018 11:30:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

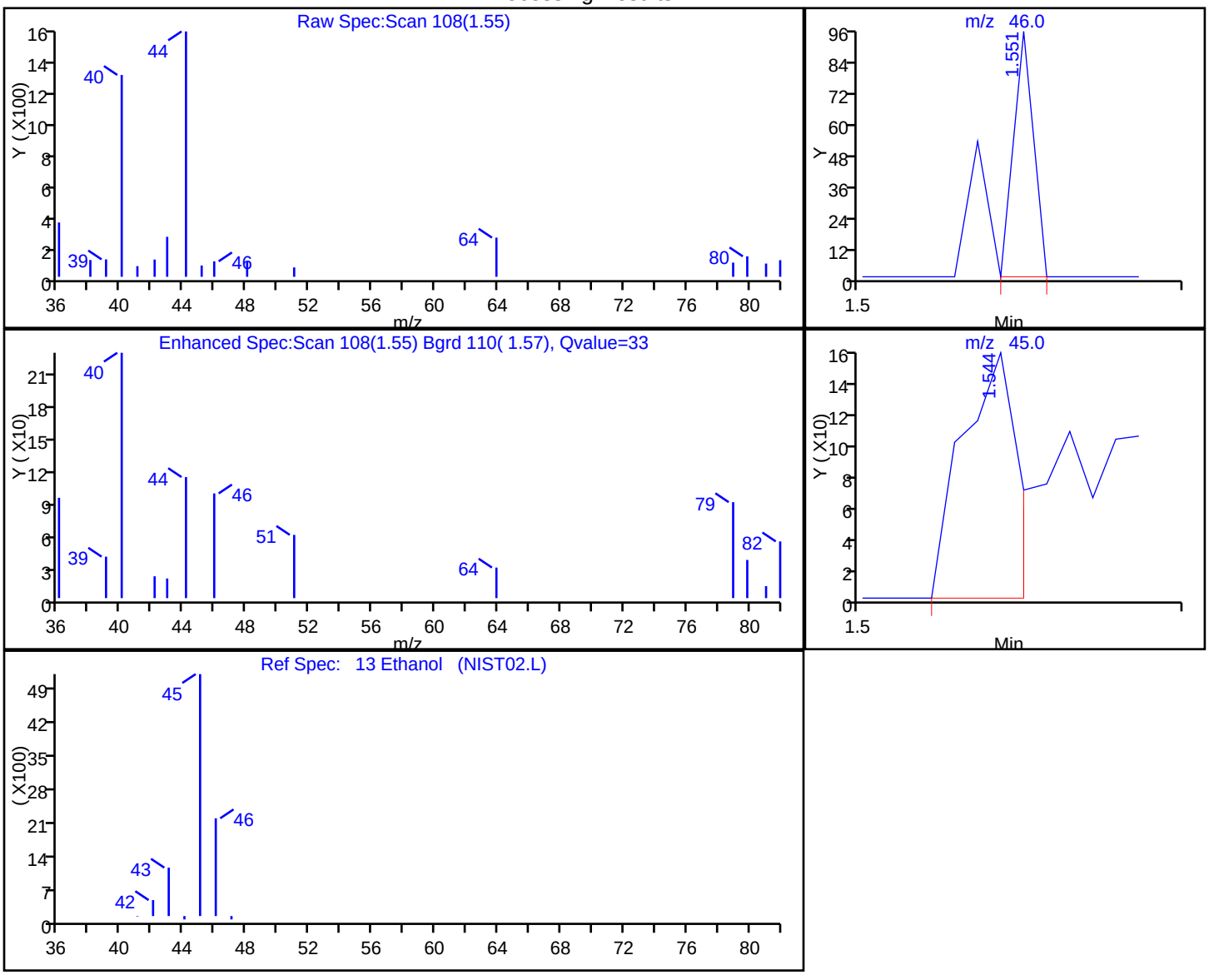
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
1.55	46.00	41	2.384079
1.54	45.00	191	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

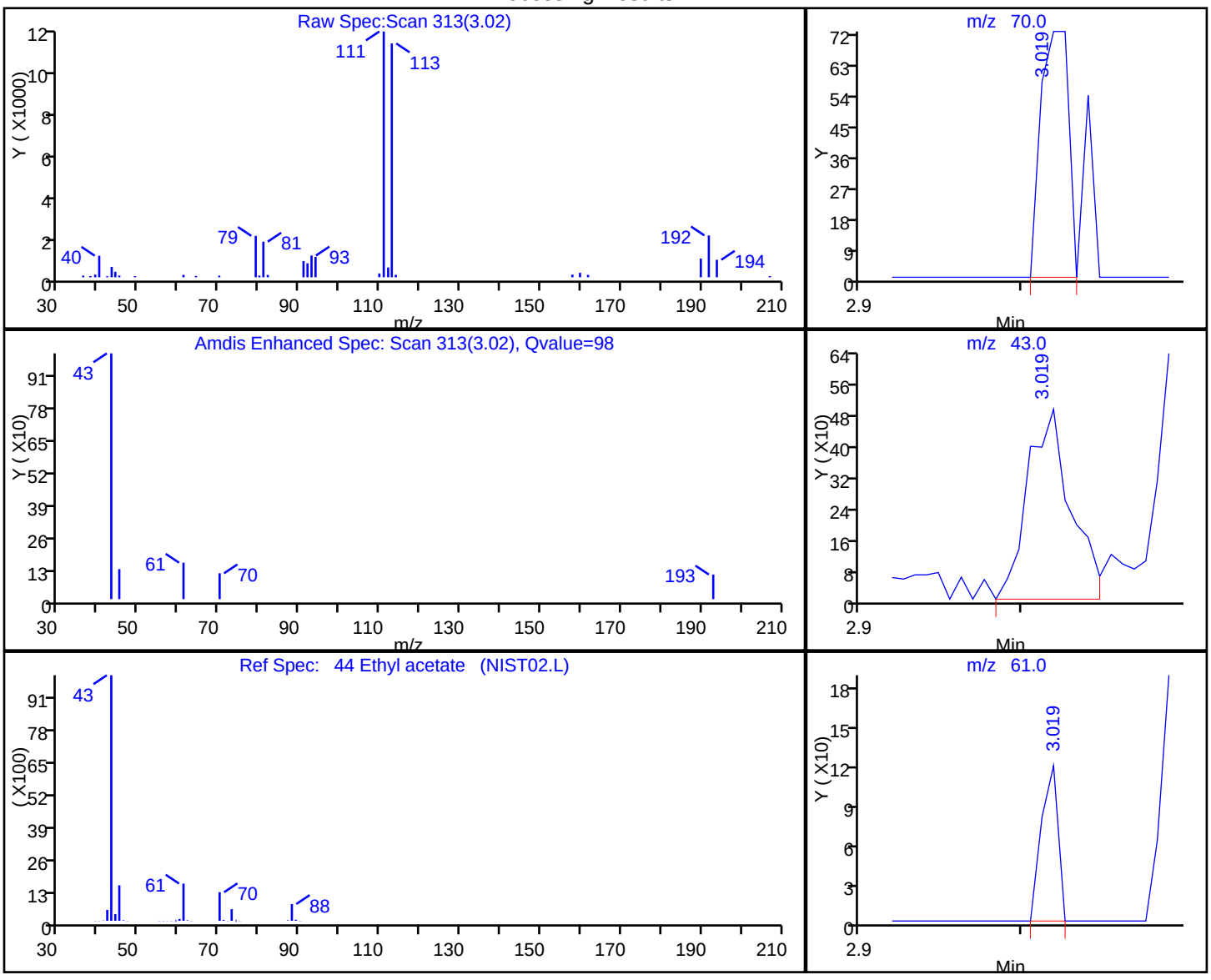
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
3.02	70.00	88	0.193092
3.02	43.00	916	
3.02	61.00	83	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

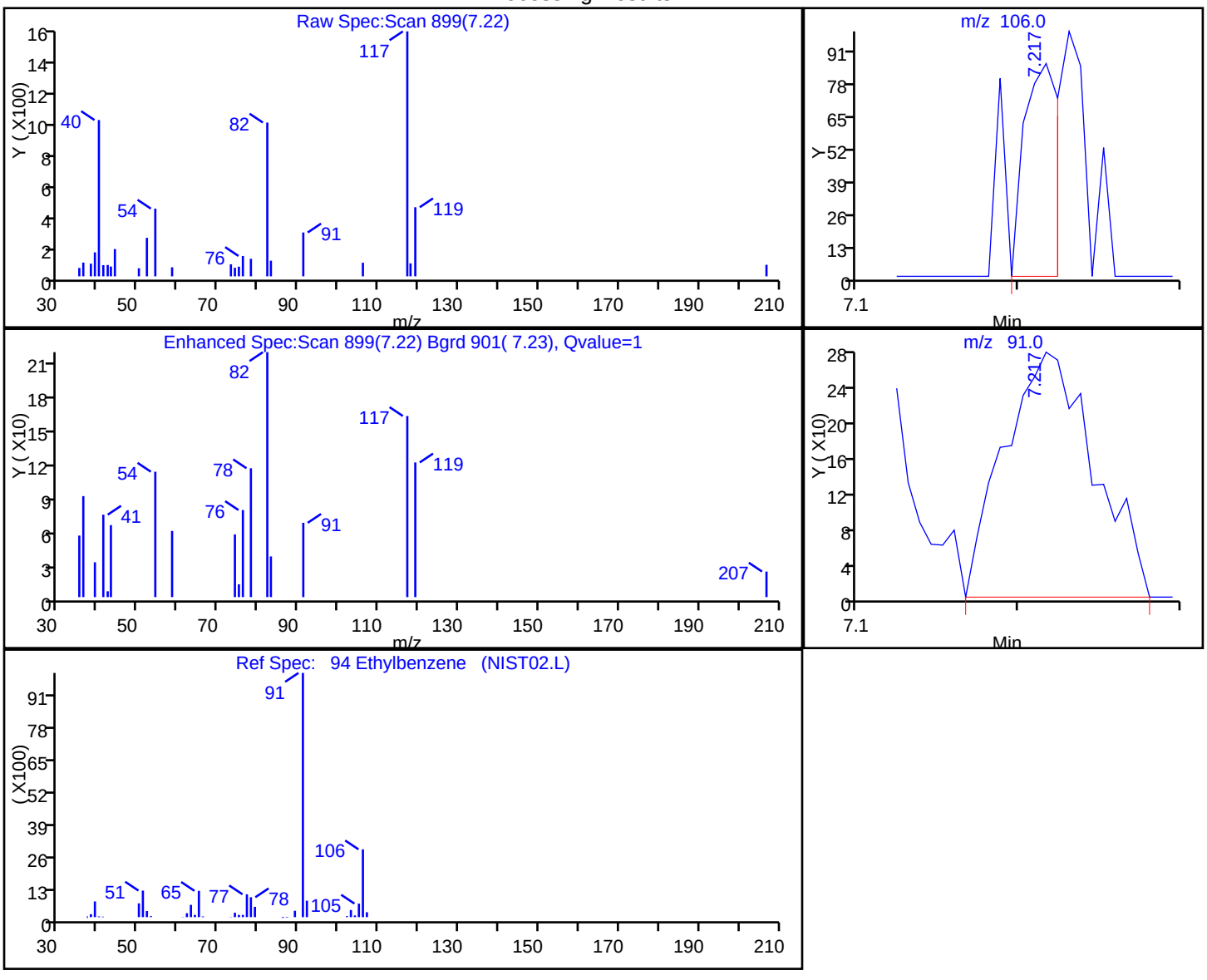
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

94 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
7.22	106.00	128	0.023112
7.22	91.00	1081	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

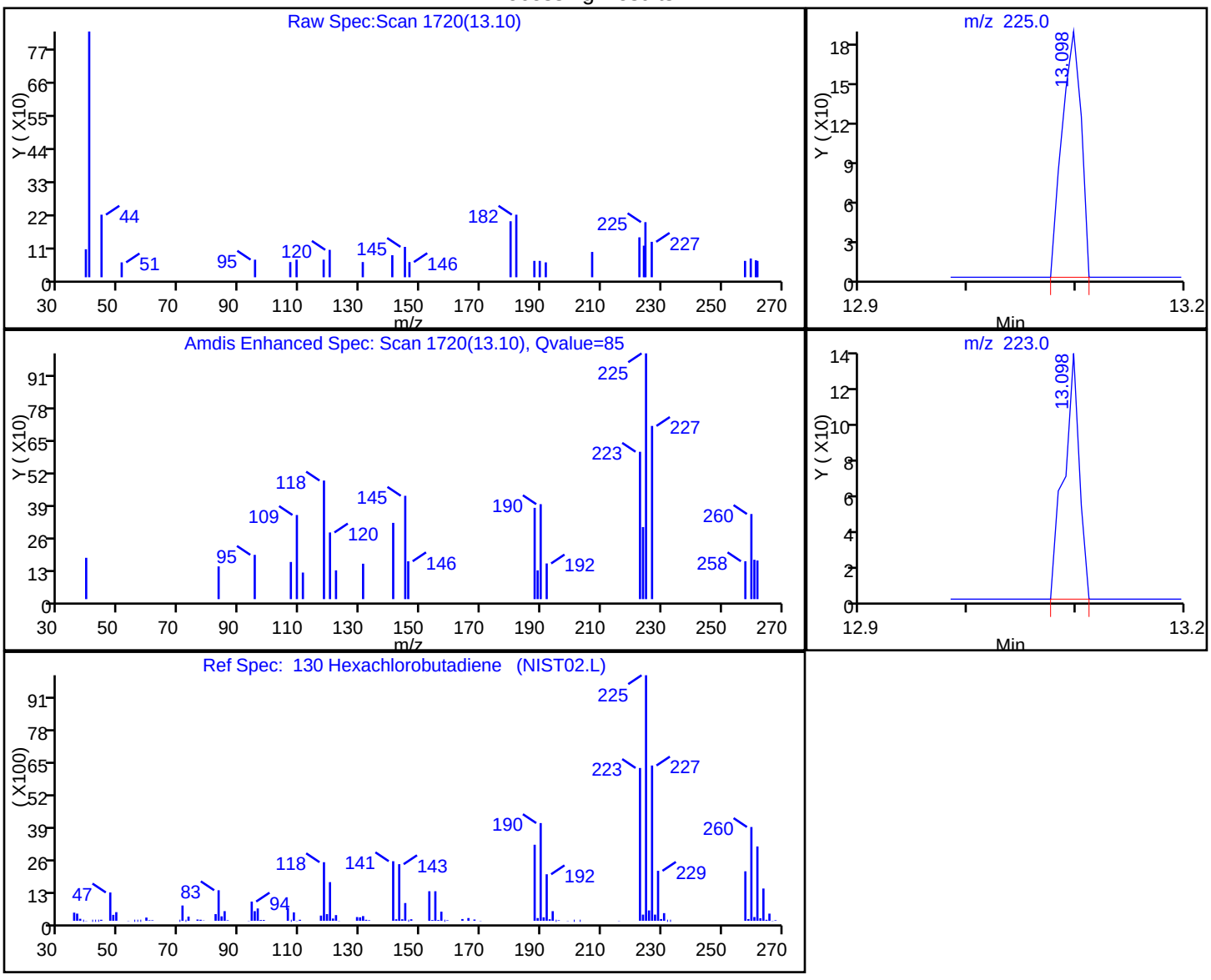
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

130 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.10	225.00	227	0.120984
13.10	223.00	134	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

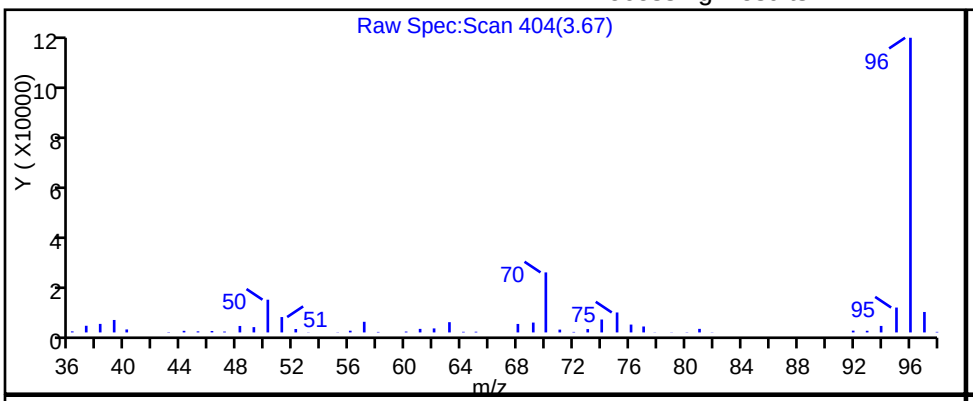
User Disabled Compound Report

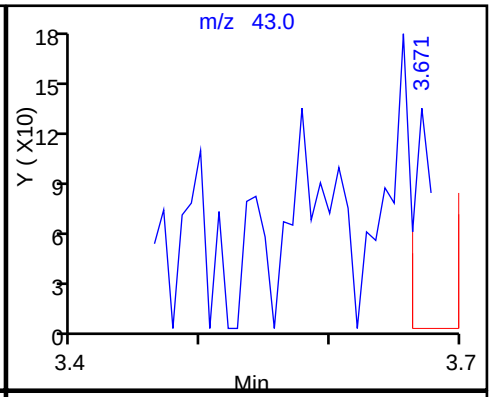
TestAmerica Edison

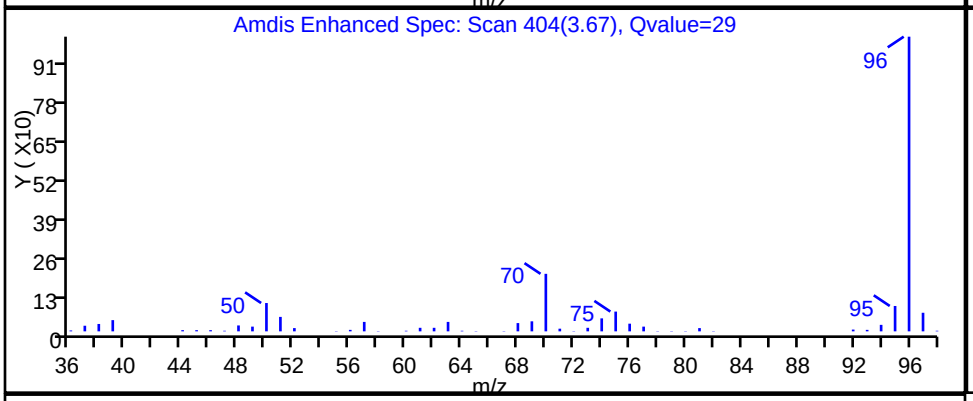
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

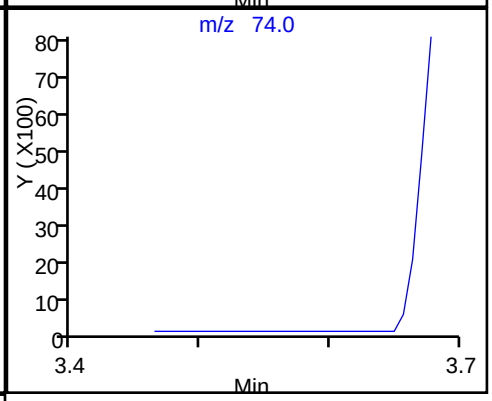
60 Isobutyl alcohol, CAS: 78-83-1

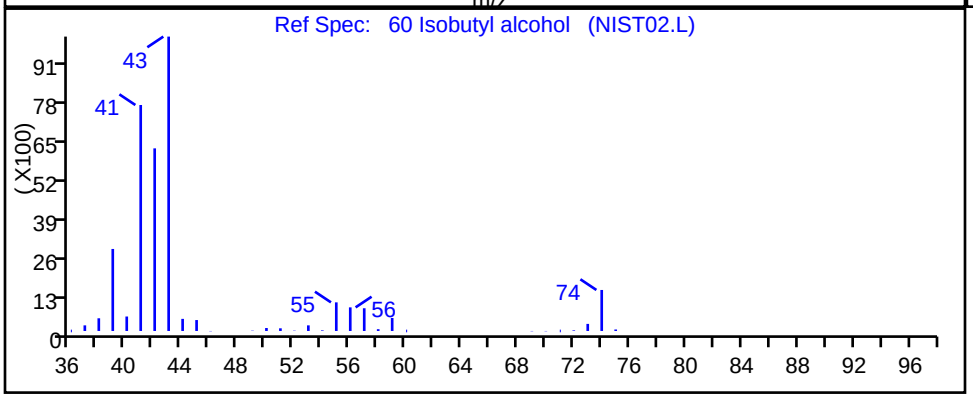
Processing Results











RT	Mass	Response	Amount
3.67	43.00	179	1.036318
3.69	74.00	16855	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

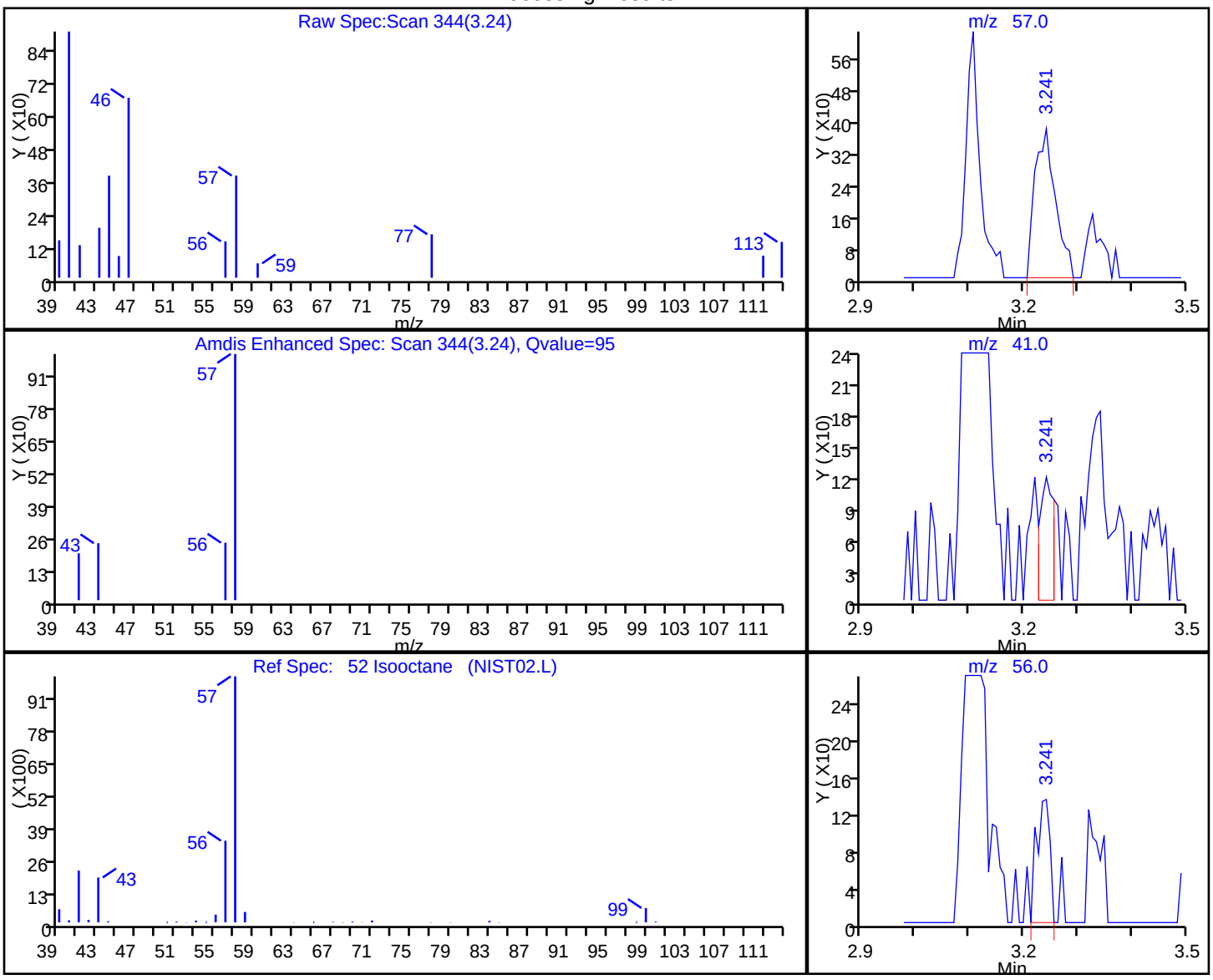
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

52 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
3.24	57.00	999	0.088608
3.24	41.00	212	
3.24	56.00	230	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

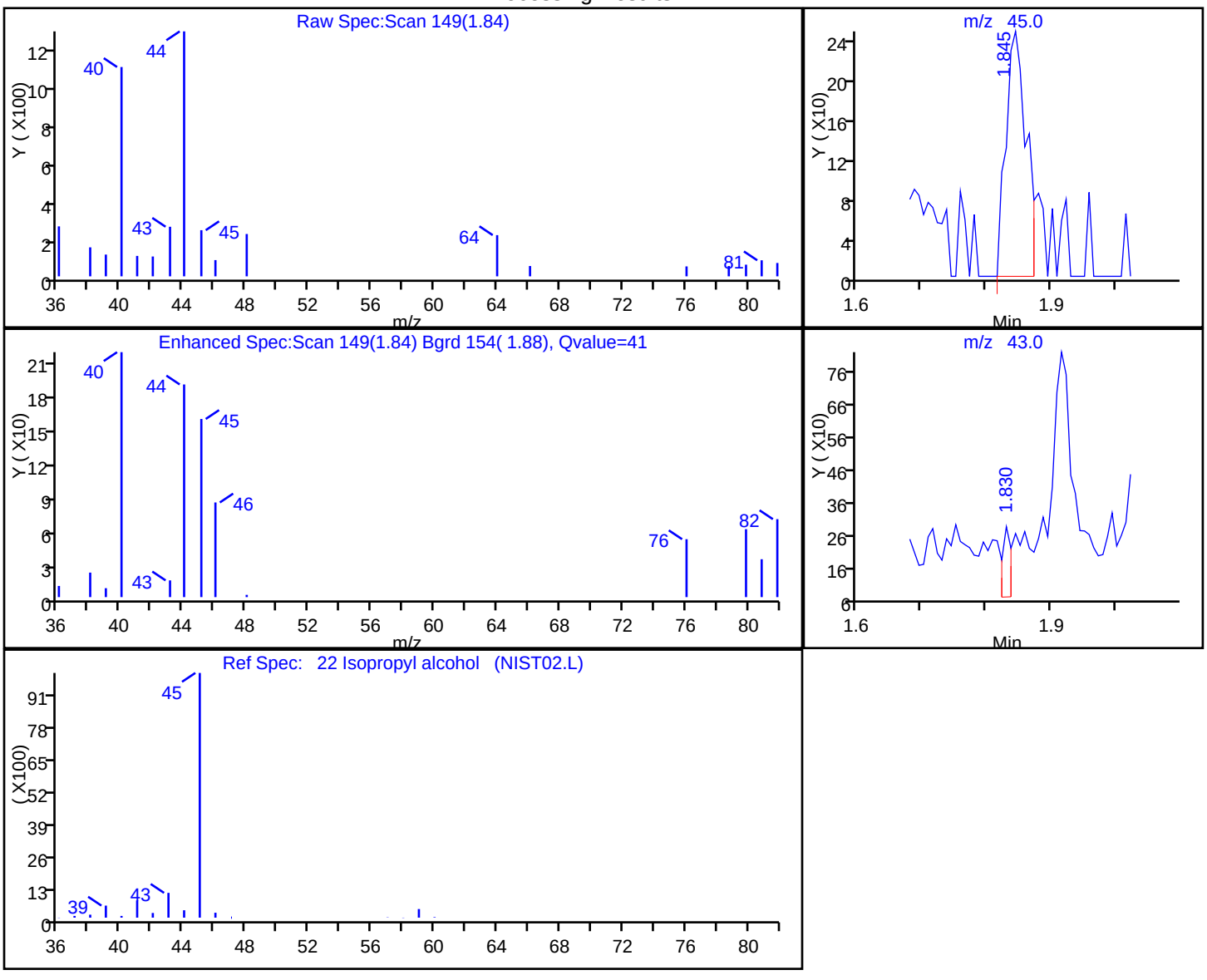
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D				
Injection Date:	05-Mar-2018 23:04:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

22 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
1.84	45.00	535	2.117853
1.83	43.00	204	

Reviewer: desais, 06-Mar-2018 11:30:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

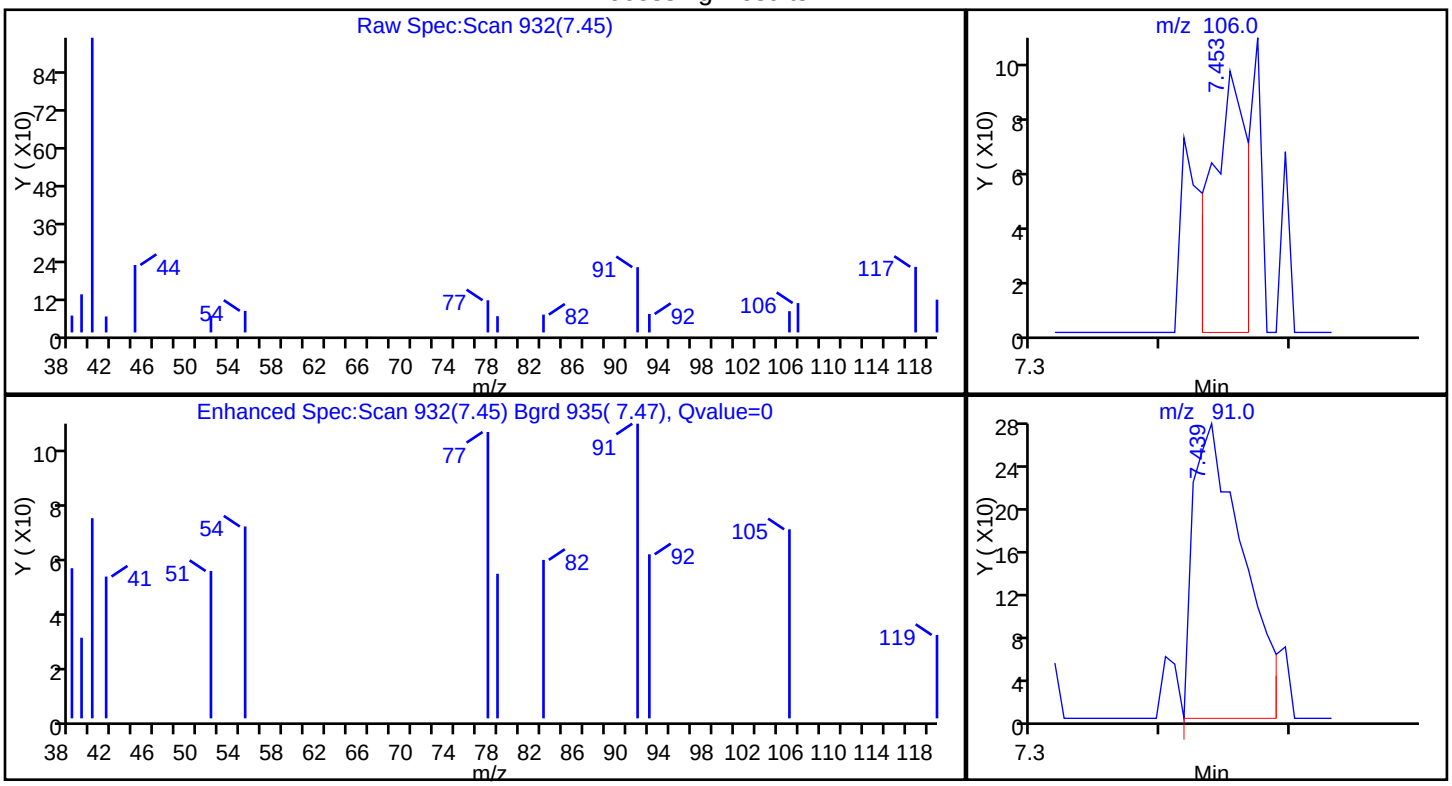
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D				
Injection Date:	05-Mar-2018 23:04:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

96 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
7.45	106.00	177	0.025997
7.44	91.00	729	

Reviewer: desais, 06-Mar-2018 11:30:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

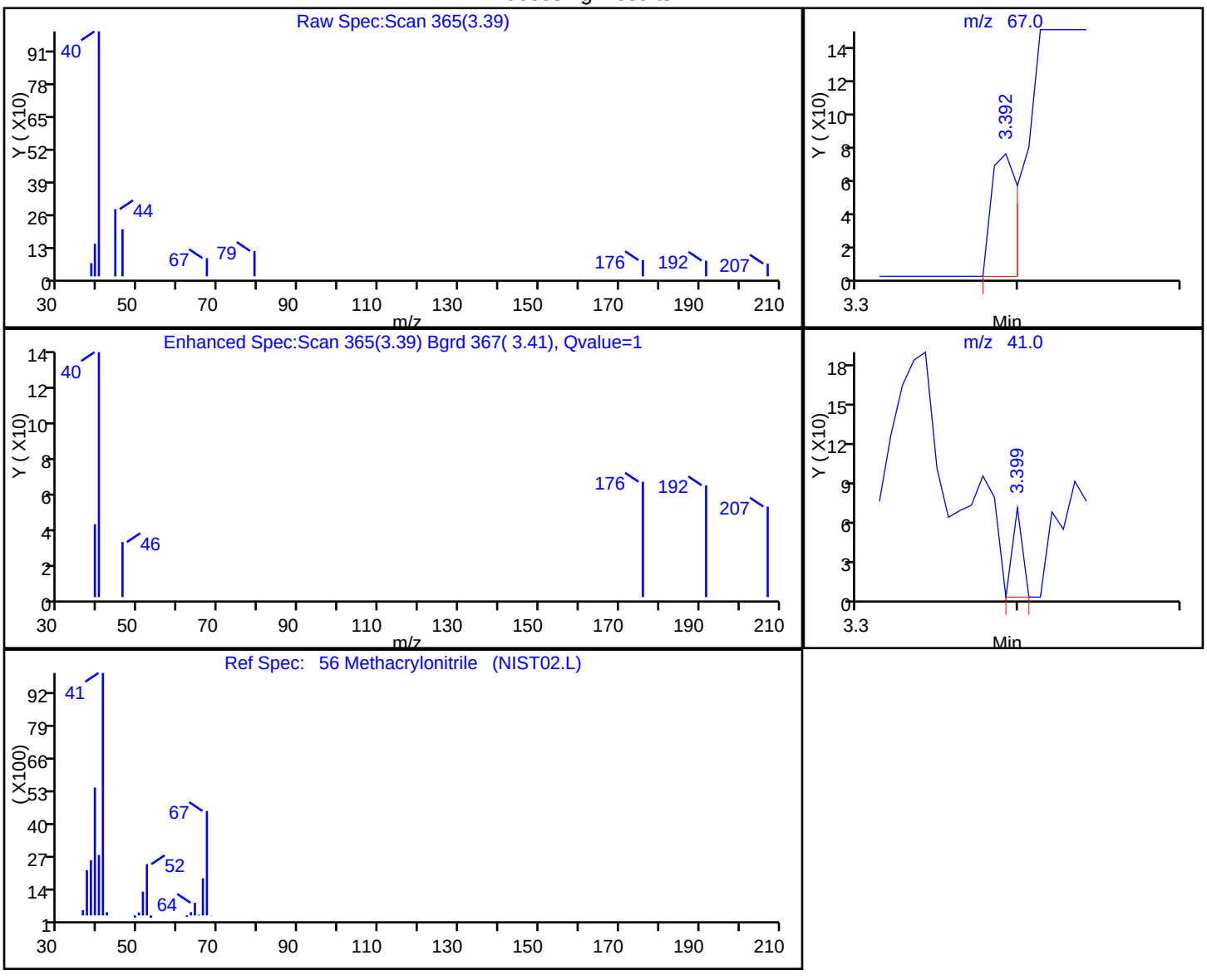
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
3.39	67.00	83	0.052098
3.40	41.00	29	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

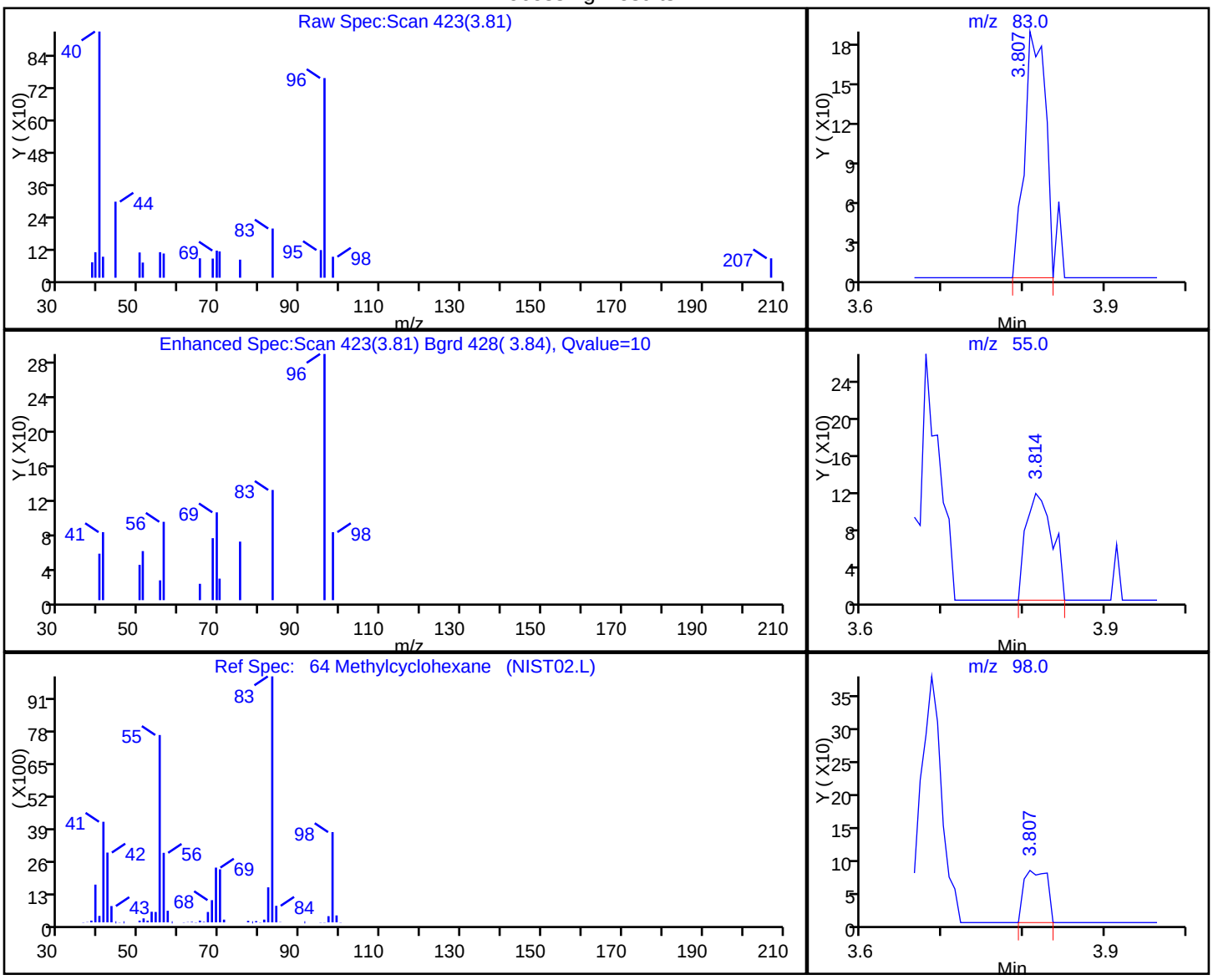
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
3.81	83.00	332	0.053551
3.81	55.00	266	
3.81	98.00	157	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

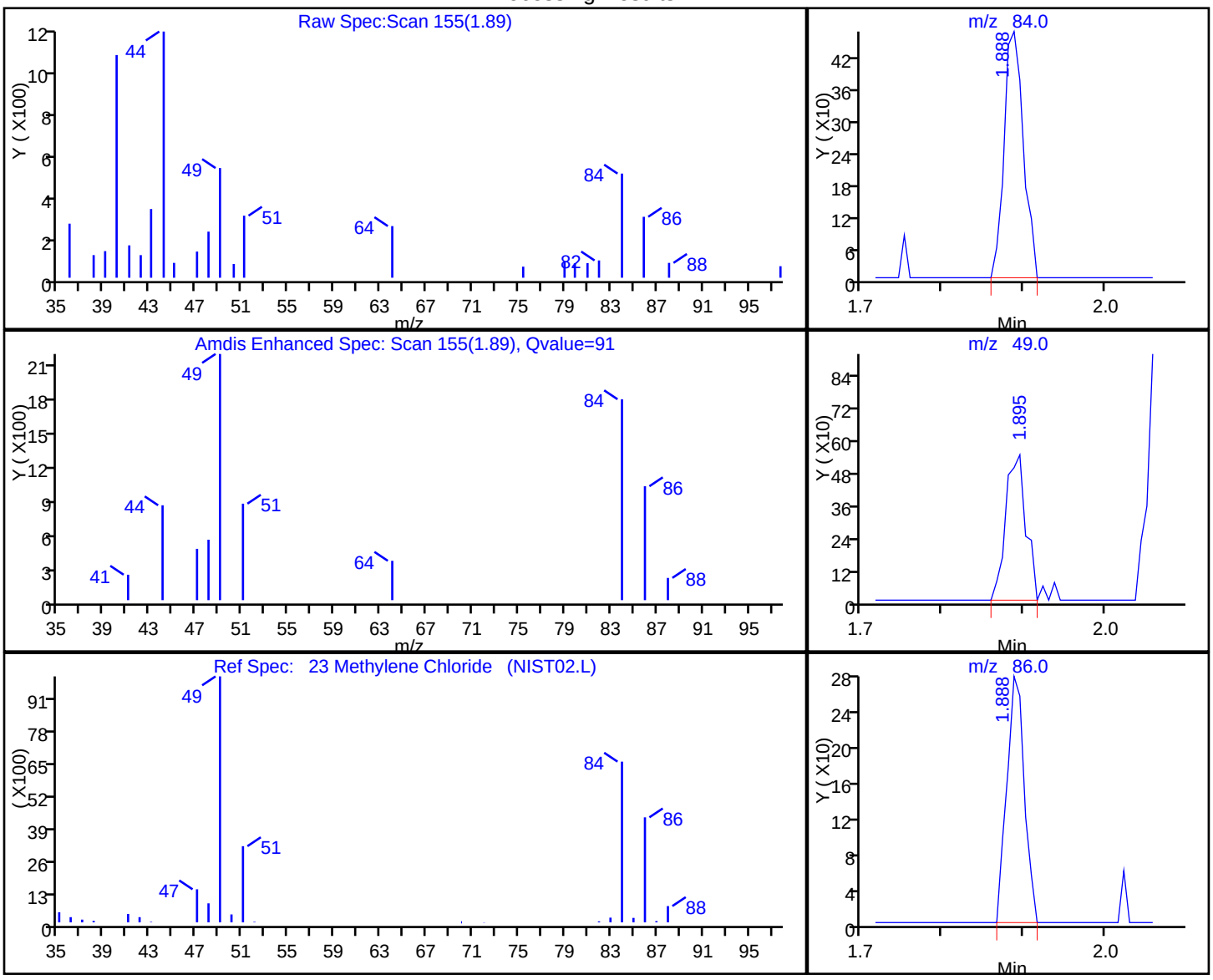
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
1.89	84.00	780	0.181903
1.89	49.00	945	
1.89	86.00	415	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

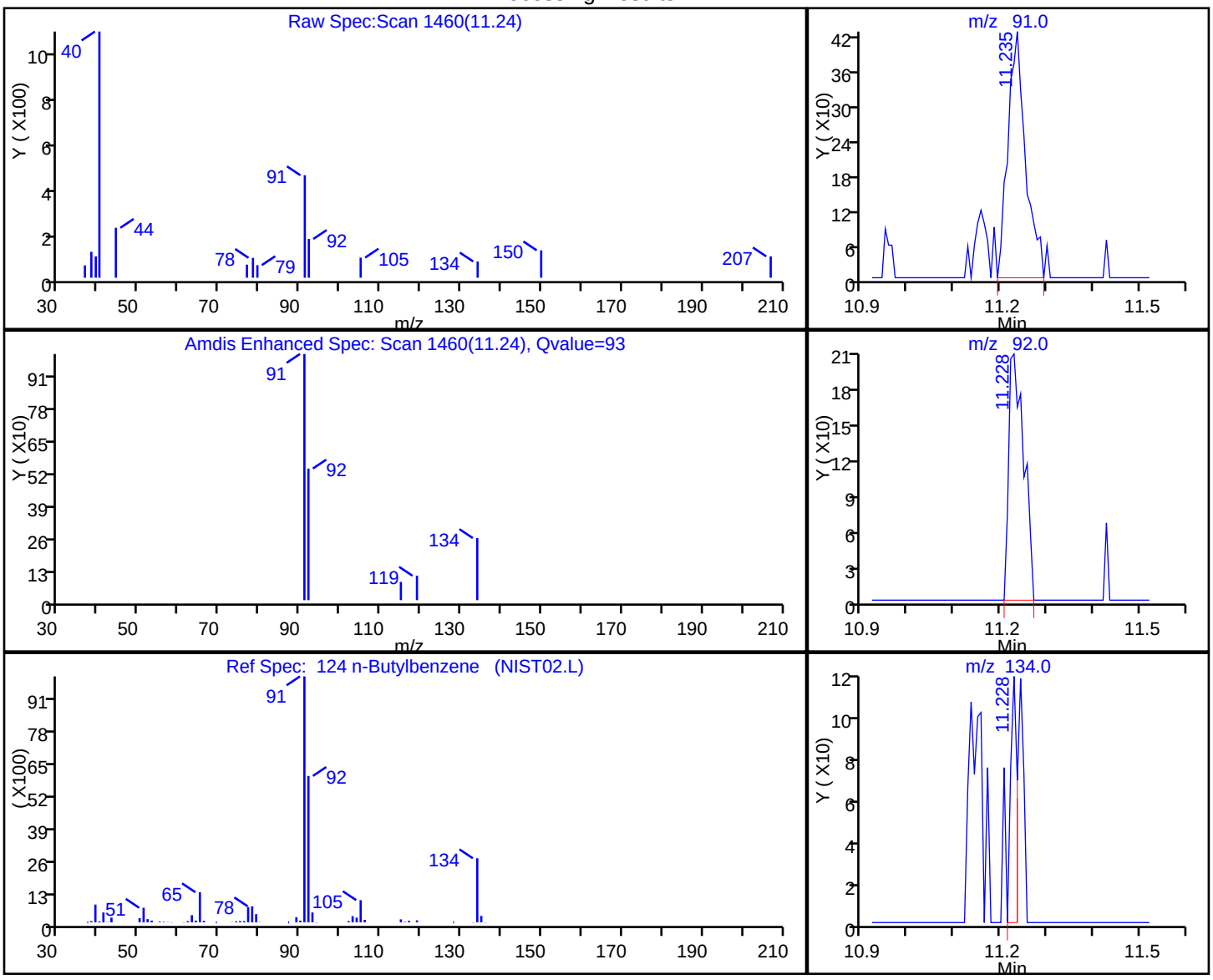
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

124 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
11.24	91.00	1121	0.082552
11.23	92.00	462	
11.23	134.00	110	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

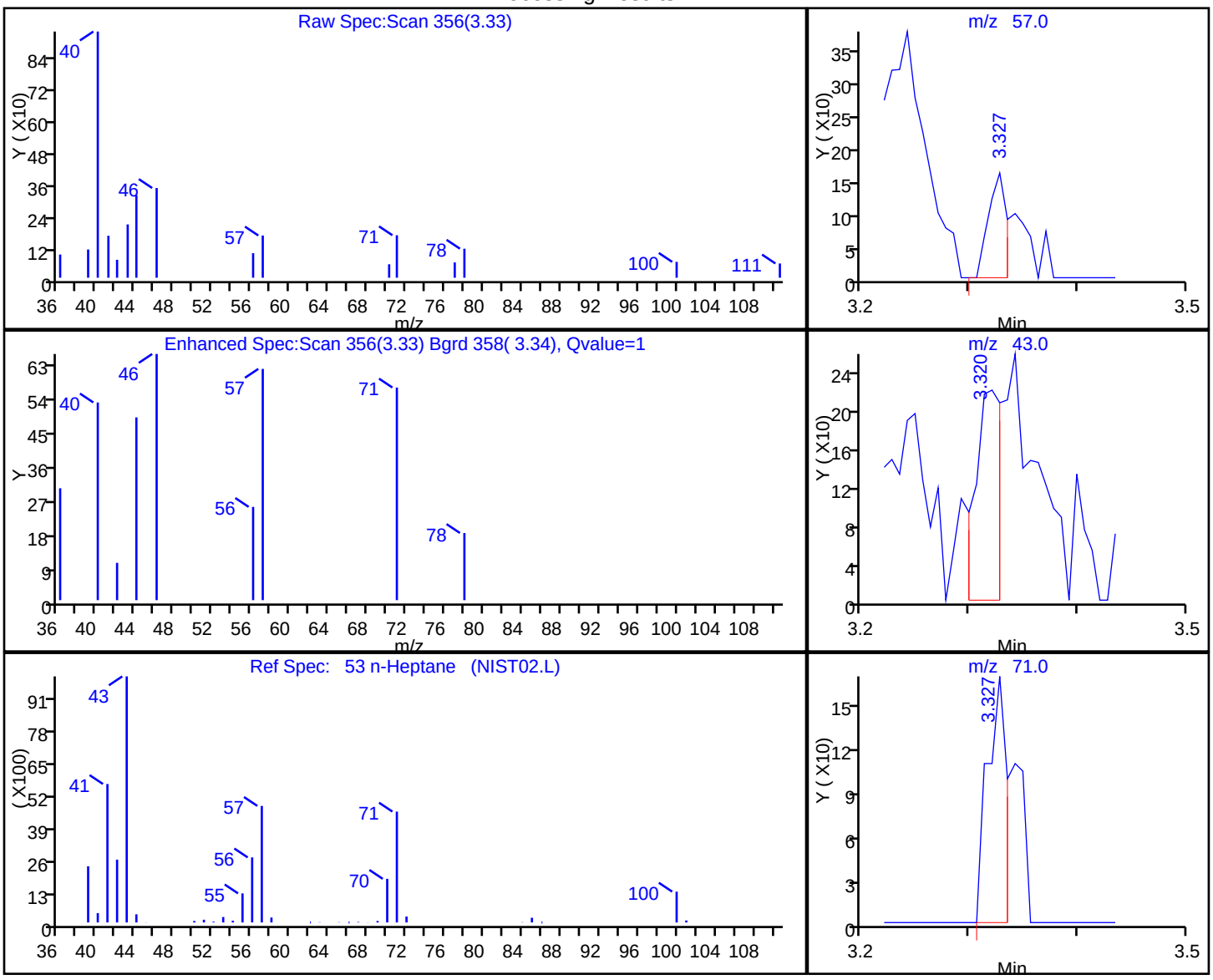
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
3.33	57.00	186	0.062328
3.32	43.00	360	
3.33	71.00	199	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

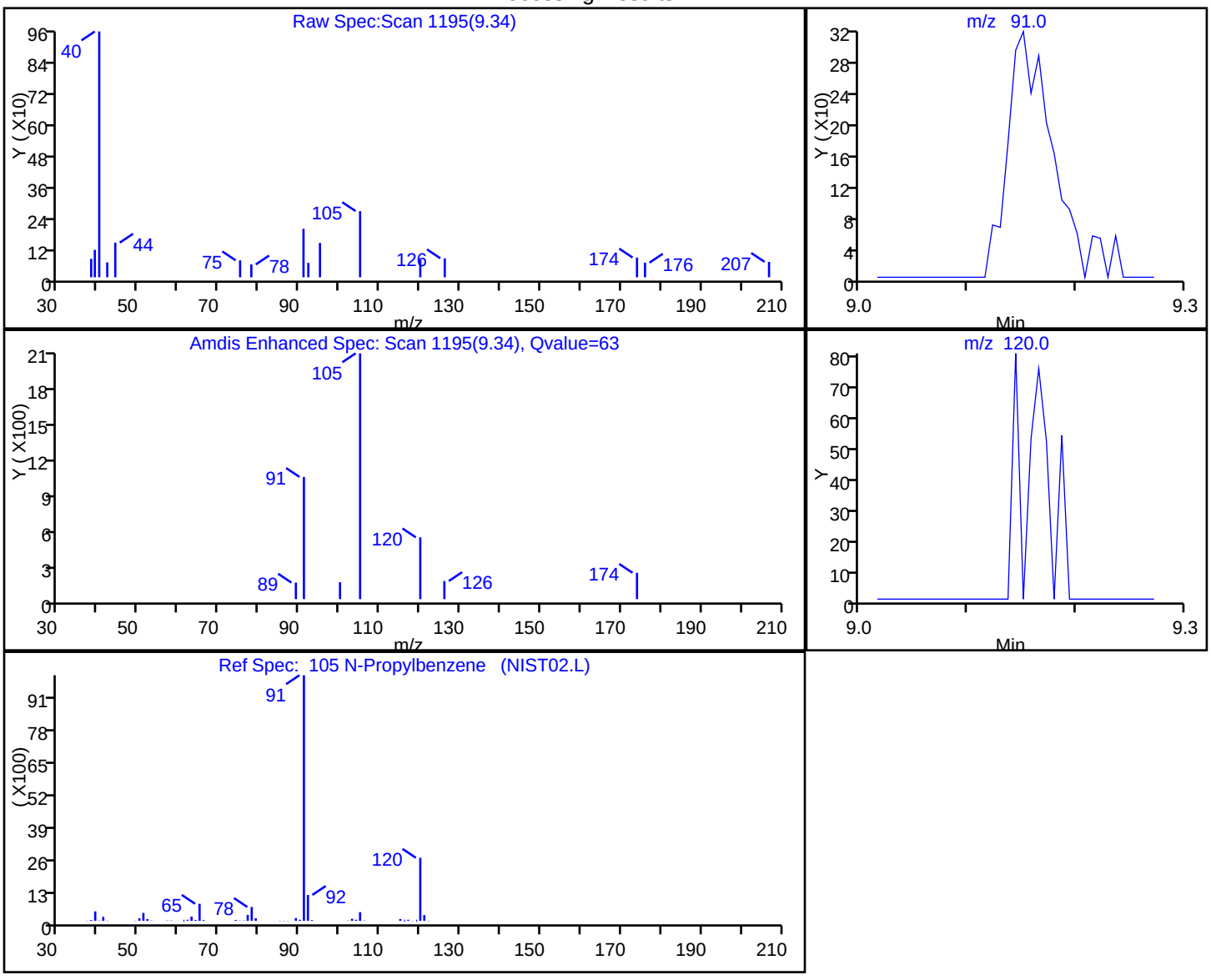
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

105 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
9.34	91.00	351	0.017705
9.35	120.00	168	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

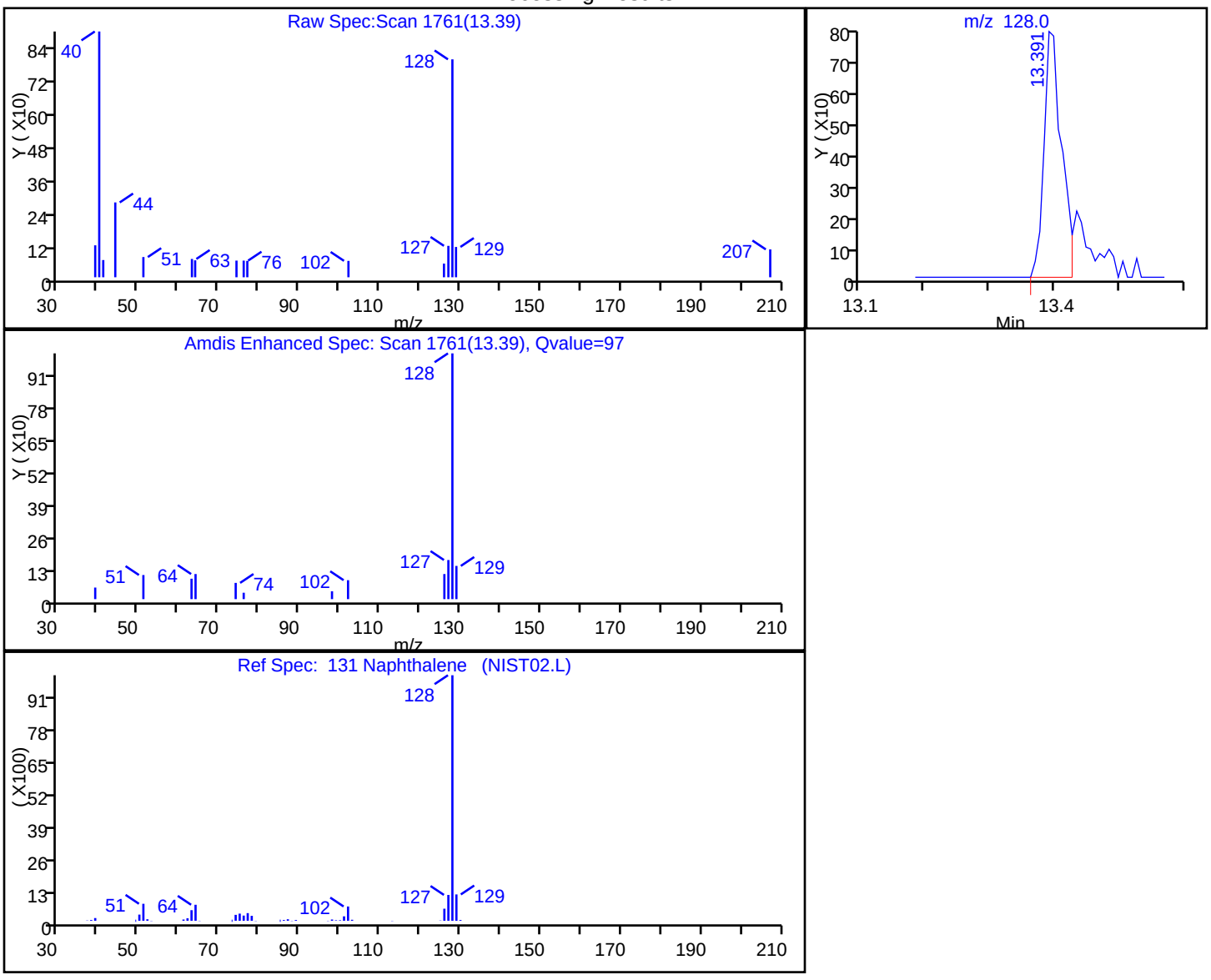
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

131 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
13.39	128.00	1519	0.125978

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

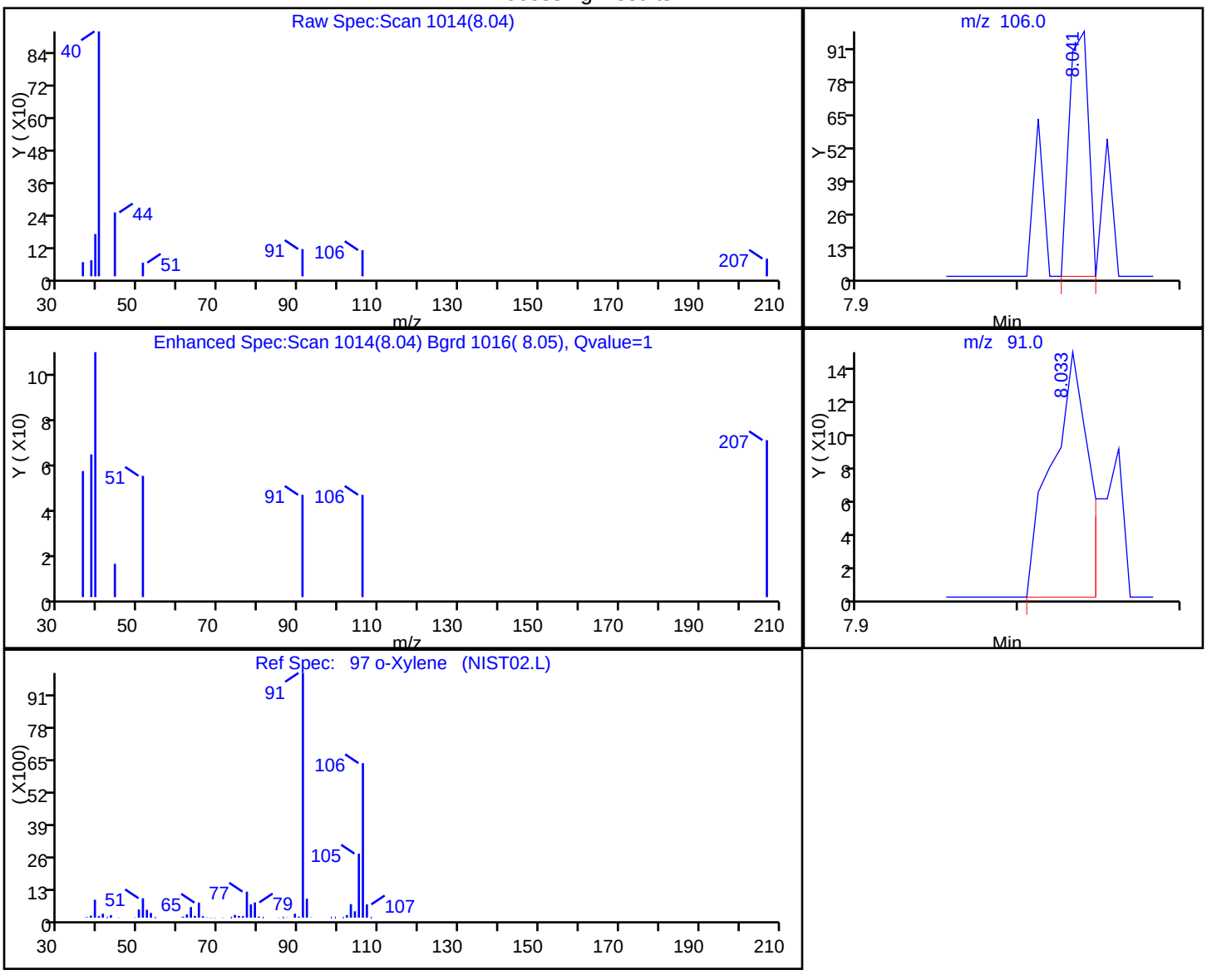
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
8.04	106.00	81	0.012490
8.03	91.00	232	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

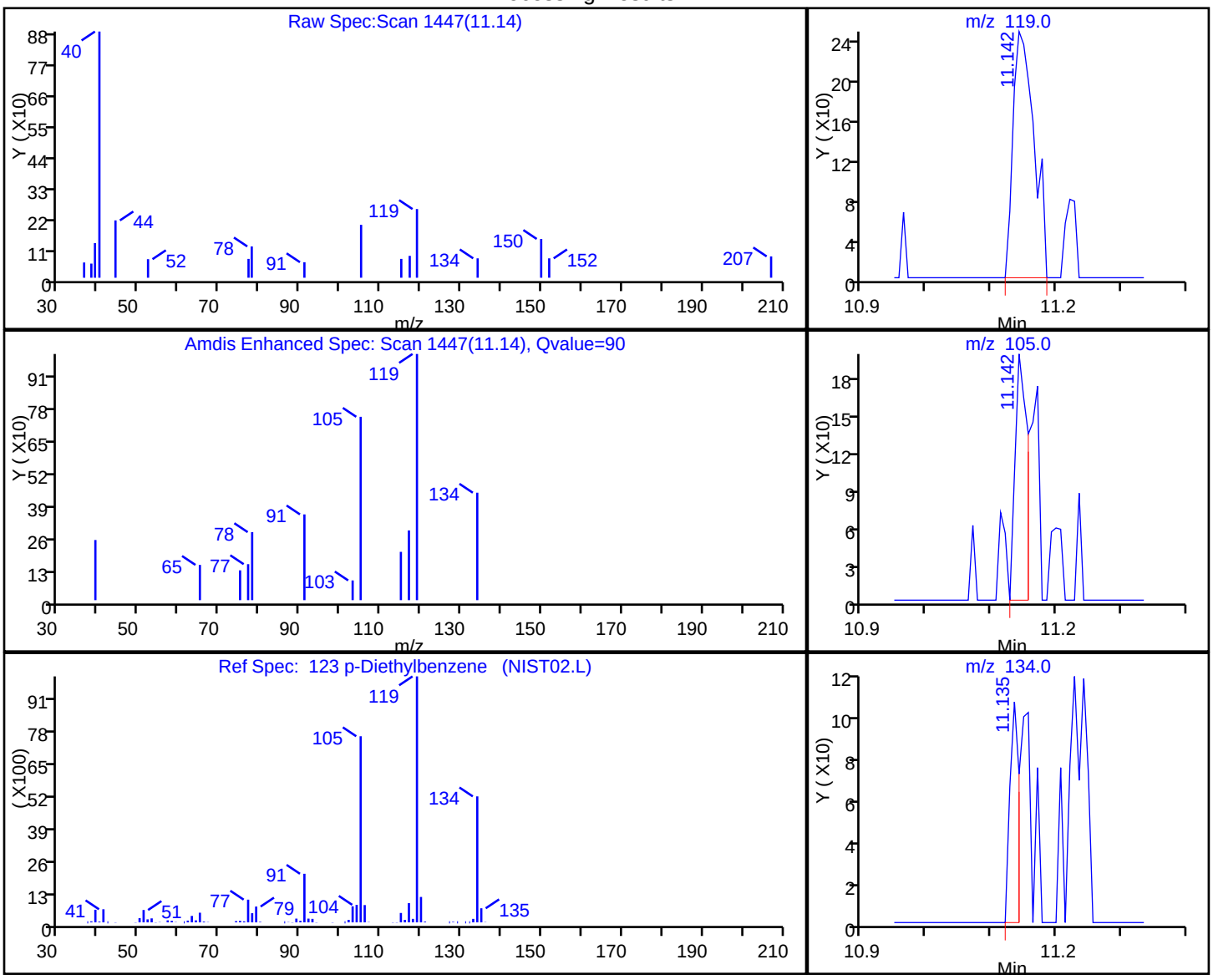
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.14	119.00	558	0.070293
11.14	105.00	247	
11.14	134.00	102	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

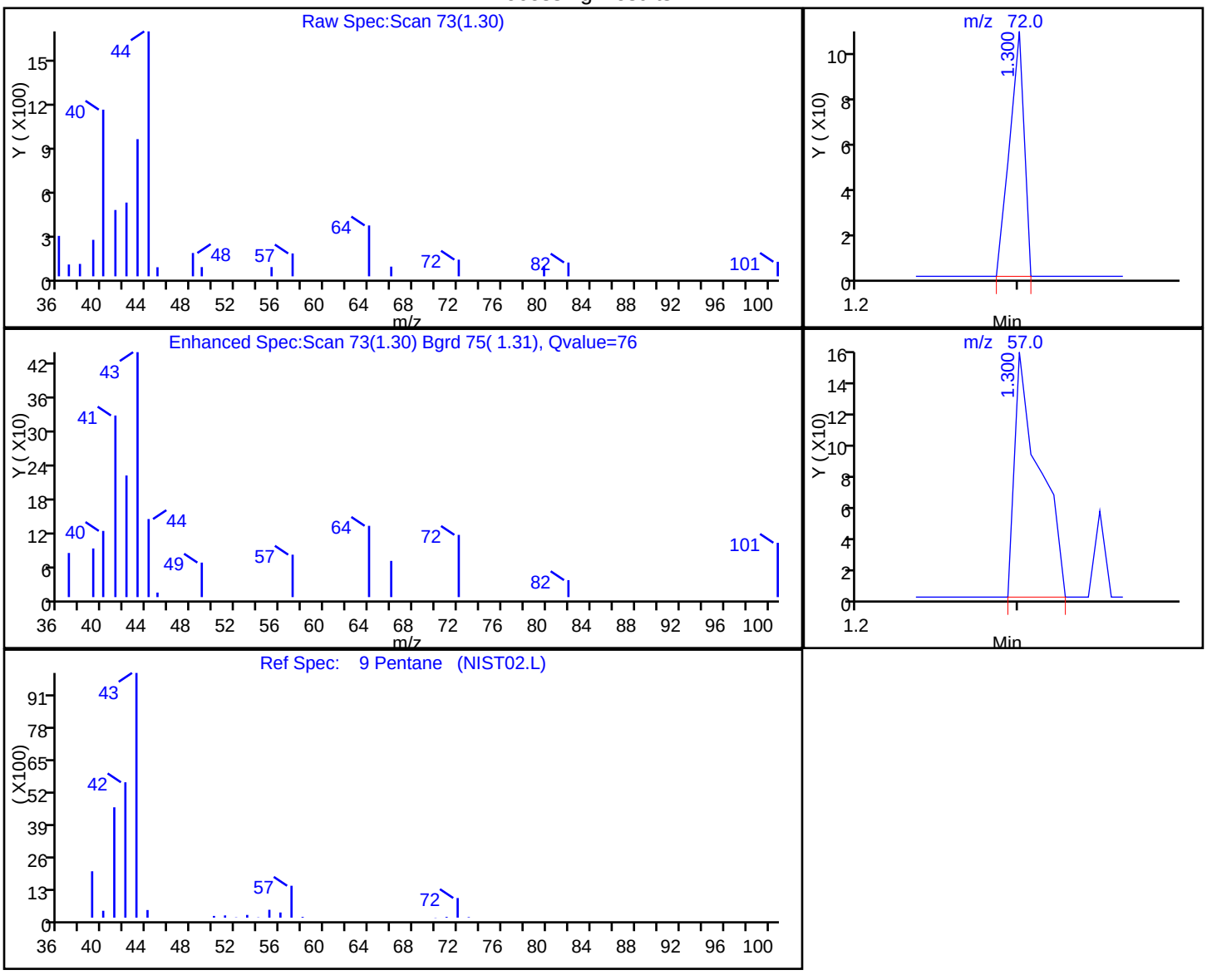
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

9 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
1.30	72.00	69	0.109636
1.30	57.00	162	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

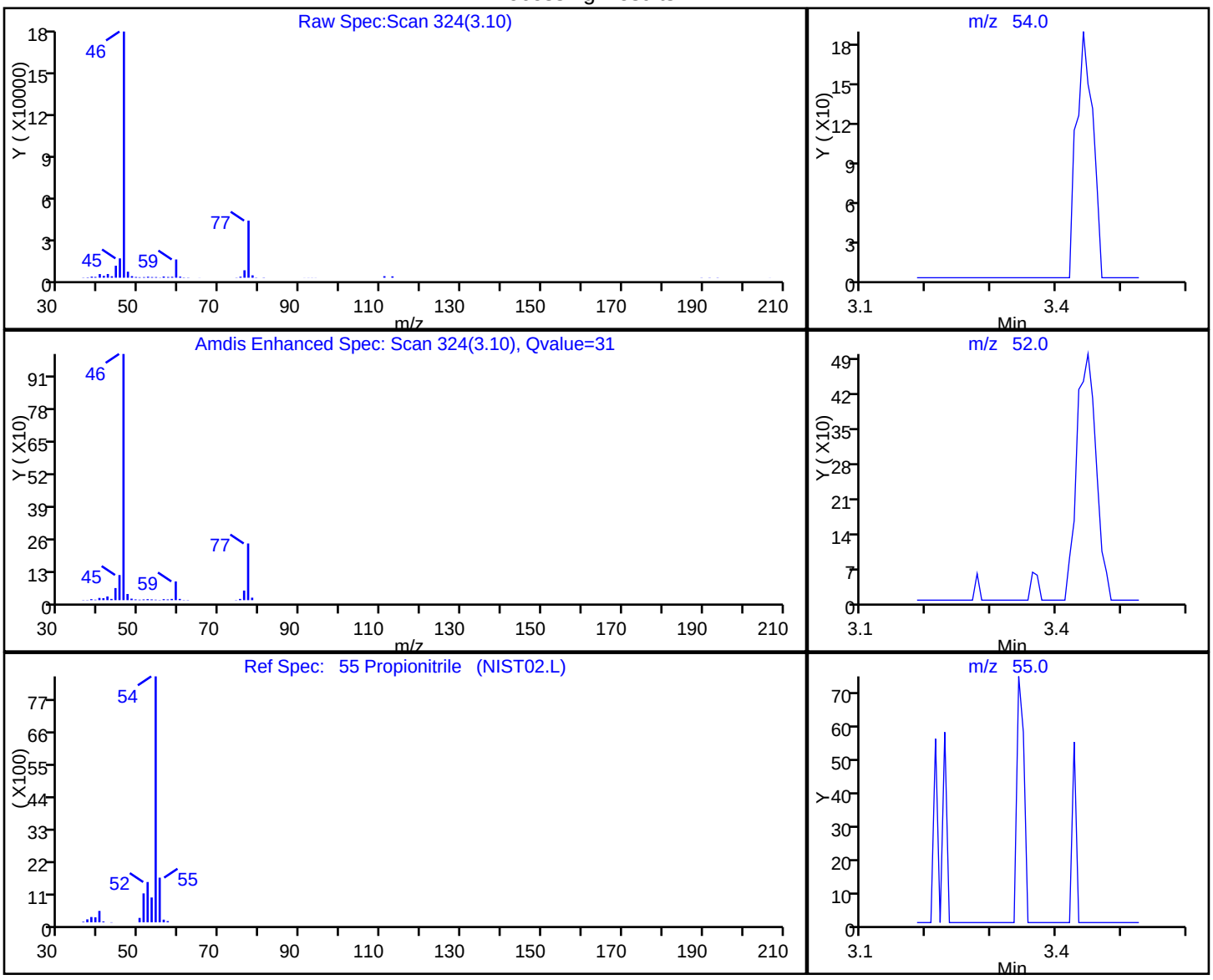
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

55 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.10	54.00	754	1.414420
3.10	52.00	1355	
3.11	55.00	517	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

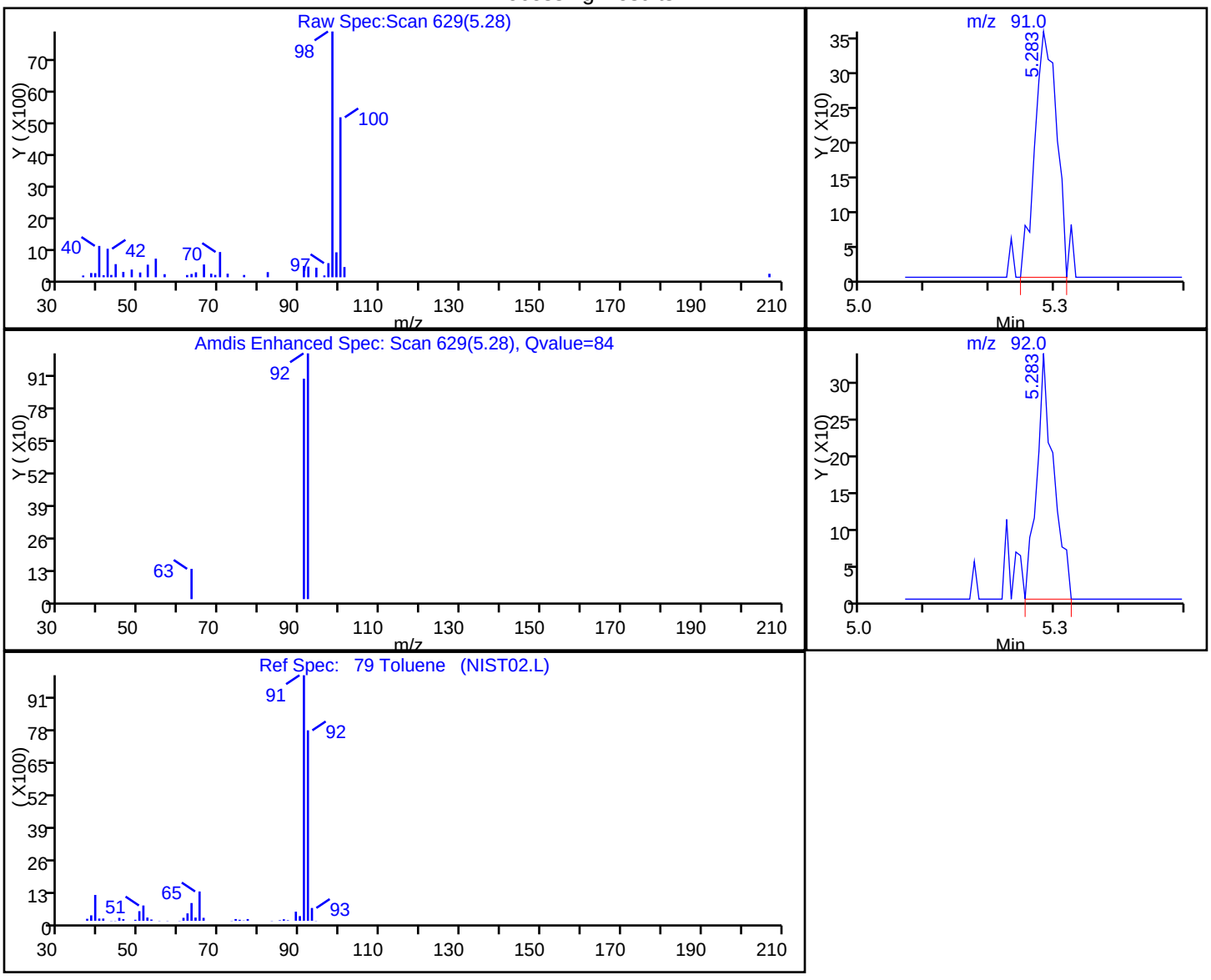
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
5.28	91.00	841	0.051431
5.28	92.00	610	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

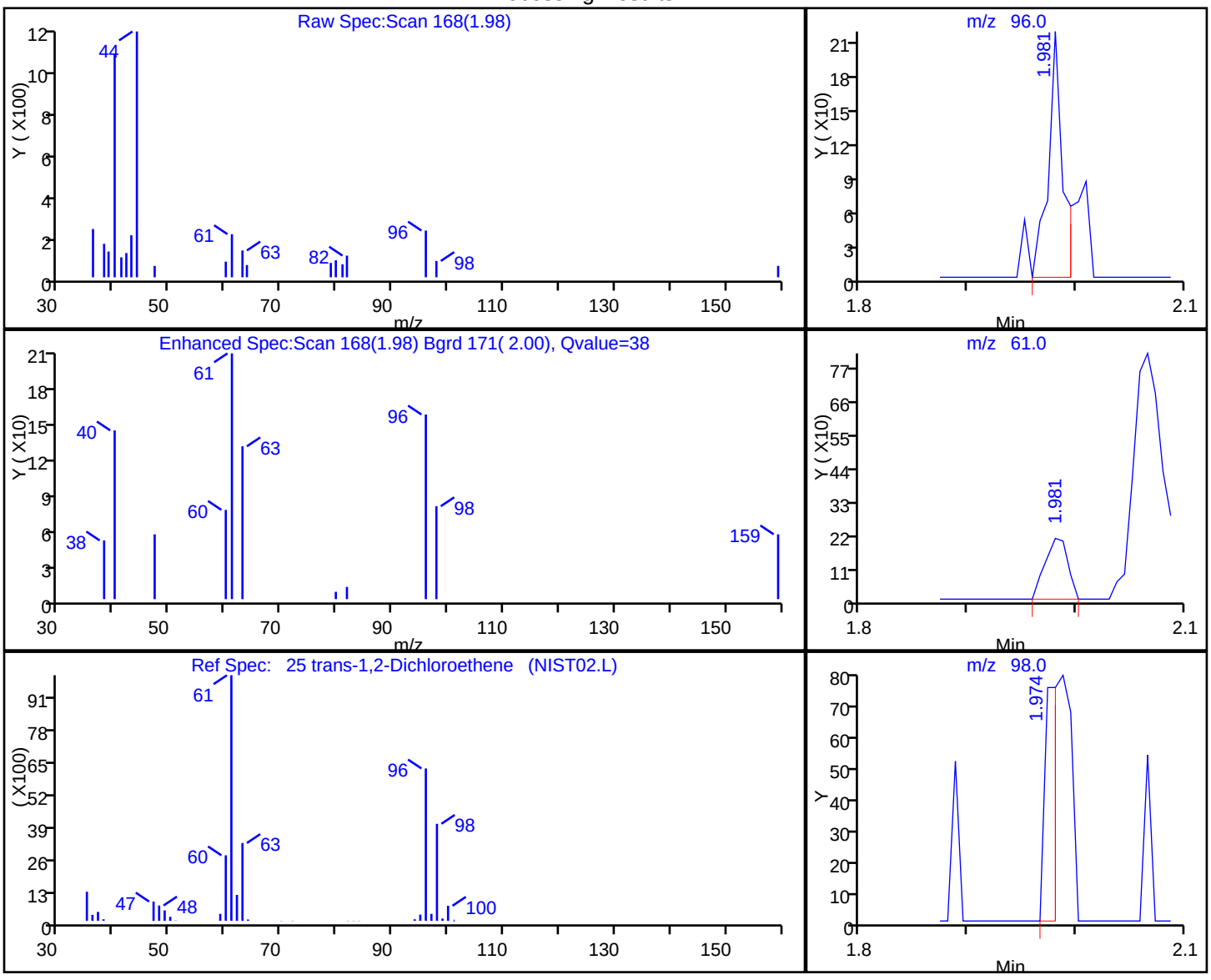
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

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

Processing Results



RT	Mass	Response	Amount
1.98	96.00	204	0.054356
1.98	61.00	297	
1.97	98.00	65	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

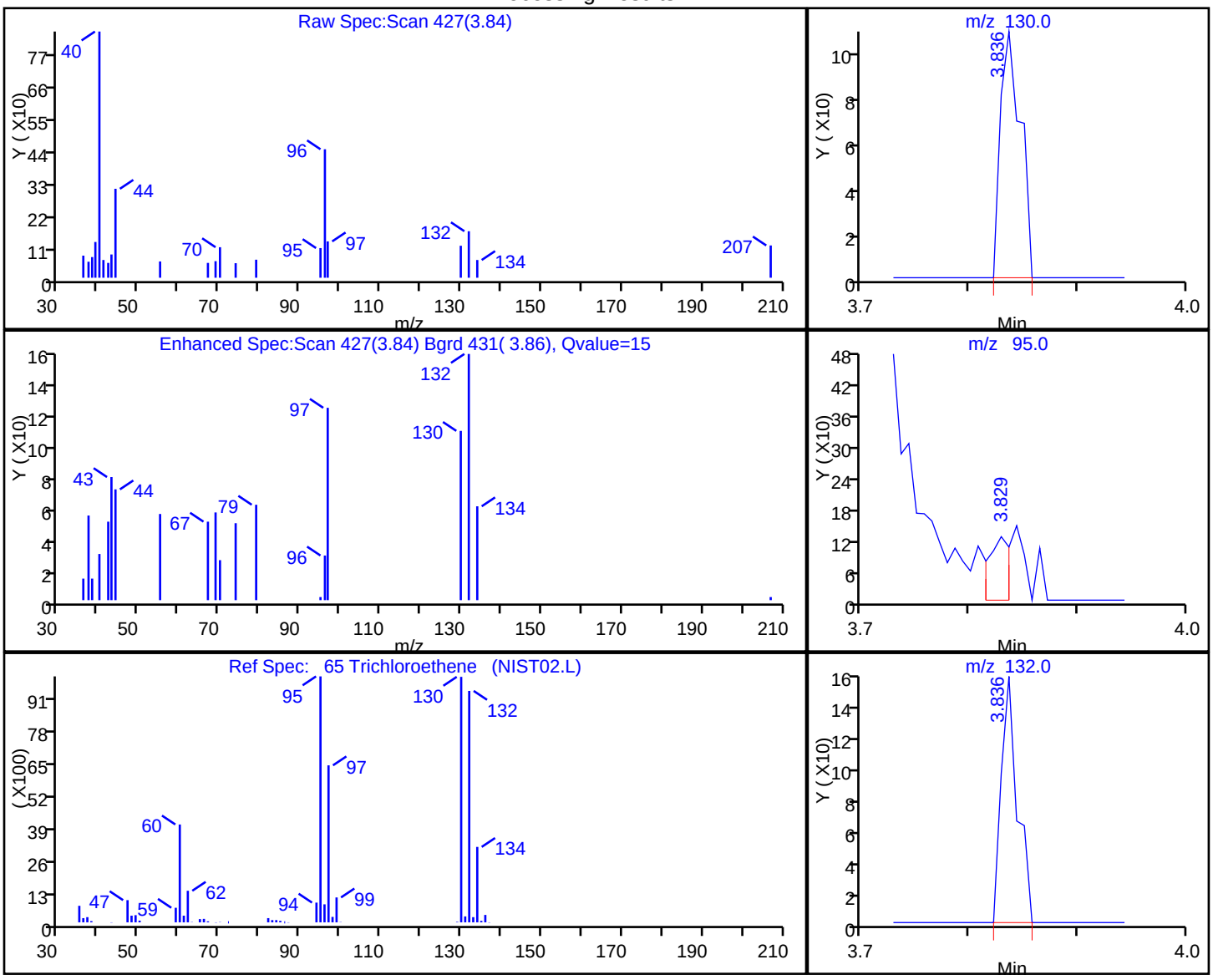
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

65 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
3.84	130.00	142	0.036906
3.83	95.00	169	
3.84	132.00	166	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

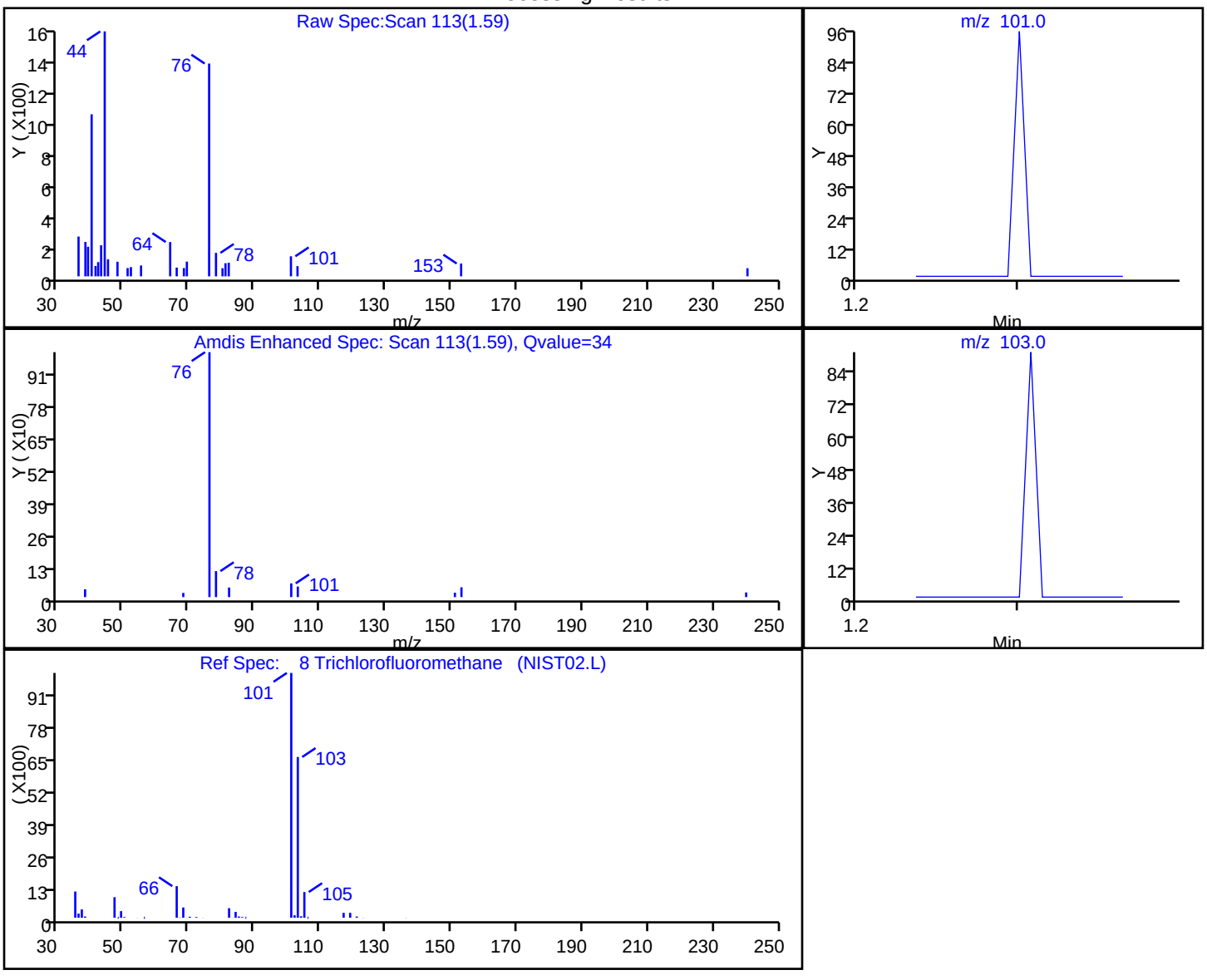
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.59	101.00	82	0.017665
1.58	103.00	55	

Reviewer: desais, 06-Mar-2018 11:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

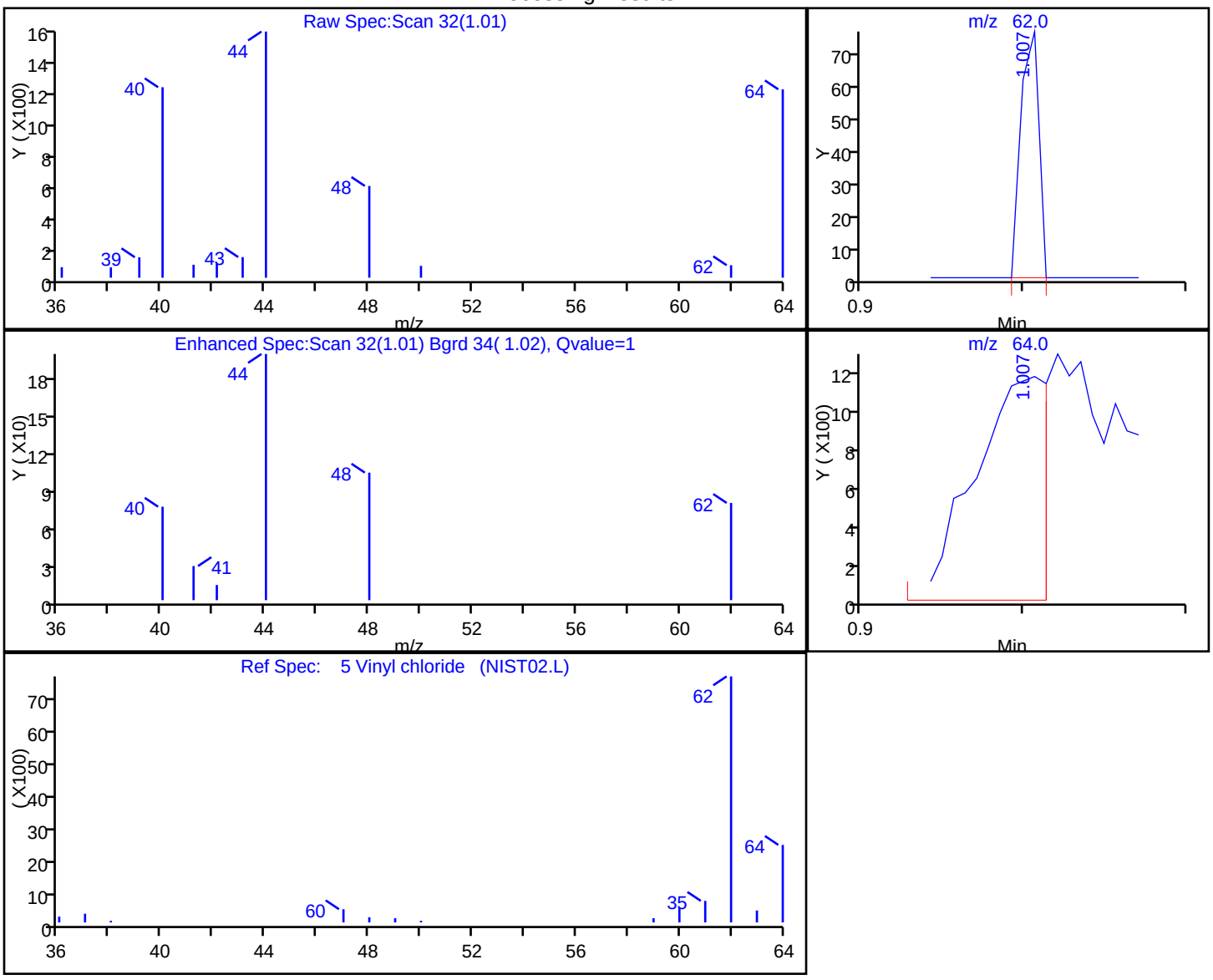
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42053.D
Injection Date: 05-Mar-2018 23:04:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.01	62.00	60	0.012472
1.01	64.00	3606	

Reviewer: baronm, 07-Mar-2018 08:45:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Mar-2018 23:30:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 460-0068378-004
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:20:30 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 06-Mar-2018 02:40:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	36	653	0.5000	0.5051	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	98	2221	0.5000	0.5282	
4 Chloromethane	50	0.985	0.985	0.000	98	2003	0.5000	0.5320	a
5 Vinyl chloride	62	1.007	1.007	0.000	89	2704	0.5000	0.5659	
3 Butadiene	54	1.014	1.014	0.000	97	2507	0.5000	0.5867	
6 Bromomethane	94	1.171	1.171	0.000	94	718	0.5000	0.5116	
7 Chloroethane	64	1.243	1.236	0.007	97	1926	0.5000	0.6370	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	59	2548	0.5000	0.5526	
9 Pentane	72	1.300	1.300	0.000	95	633	1.00	1.02	
10 Dichlorofluoromethane	67	1.336	1.336	0.000	98	3593	0.5000	0.5724	
11 2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	95	2321	0.5000	0.4789	
12 Ethyl ether	59	1.465	1.465	0.000	97	1731	0.5000	0.5229	
13 Ethanol	46	1.551	1.544	0.007	86	363	20.0	17.5	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	97	1903	0.5000	0.5617	
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	74	2145	0.5000	0.5070	
16 Carbon disulfide	76	1.580	1.587	-0.007	99	7333	0.5000	0.5895	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.594	-0.007	39	1582	0.5000	0.5037	
18 Iodomethane	142	1.644	1.644	0.000	95	406	0.5000	0.1118	
19 Cyclopentene	67	1.730	1.730	0.000	96	4634	0.5000	0.5164	
20 Acrolein	56	1.752	1.752	0.000	92	1289	2.00	2.21	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	1042	0.5000	0.4906	
22 Isopropyl alcohol	45	1.852	1.852	0.000	96	1368	5.00	5.51	
23 Methylene Chloride	84	1.888	1.888	0.000	93	2808	0.5000	0.6593	
24 Acetone	43	1.916	1.916	0.000	88	4407	2.50	2.62	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	2048	0.5000	0.5494	
26 Methyl acetate	43	1.988	1.988	0.000	100	7492	2.50	2.56	
27 Hexane	86	2.024	2.024	0.000	73	498	0.5000	0.5465	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	90	4866	0.5000	0.4614	
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	325035	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.110	2.117	-0.007	93	2320	5.00	6.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	94	2895	5.00	5.49	
32 Isopropyl ether	45	2.282	2.282	0.000	98	6684	0.5000	0.5058	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	88	1654	0.5000	0.5004	
34 1,1-Dichloroethane	63	2.353	2.353	0.000	99	3455	0.5000	0.5266	
35 Acrylonitrile	53	2.389	2.382	0.007	90	7147	5.00	4.82	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	88	5787	0.5000	0.4950	
37 Vinyl acetate	43	2.525	2.525	0.000	99	7784	1.00	0.9684	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	98	2008	0.5000	0.5027	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	97	2502	0.5000	0.5278	
40 Cyclohexane	56	2.840	2.848	-0.008	94	3138	0.5000	0.4953	
41 Chlorobromomethane	128	2.848	2.848	0.000	75	905	0.5000	0.4871	
42 Chloroform	83	2.912	2.905	0.007	98	3090	0.5000	0.5189	
43 Carbon tetrachloride	117	2.998	2.998	0.000	91	1896	0.5000	0.4904	
44 Ethyl acetate	70	3.012	3.005	0.007	96	546	1.00	1.21	
45 Methyl acrylate	55	3.019	3.012	0.007	44	1585	0.5000	0.4681	
46 Tetrahydrofuran	42	3.027	3.019	0.008	29	1562	1.00	1.02	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	159590	50.0	50.0	
48 1,1,1-Trichloroethane	97	3.055	3.048	0.007	35	2397	0.5000	0.4939	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	321686	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	1254	2.50	2.61	
51 1,1-Dichloropropene	75	3.141	3.148	-0.007	54	3248	0.5000	0.6041	a
52 Isooctane	57	3.242	3.234	0.008	99	6377	0.5000	0.5695	
53 n-Heptane	57	3.328	3.327	0.001	88	1609	0.5000	0.5428	
54 Benzene	78	3.342	3.335	0.007	96	7453	0.5000	0.4998	
55 Propionitrile	54	3.363	3.356	0.007	34	2527	5.00	4.83	
56 Methacrylonitrile	67	3.378	3.378	0.000	92	7032	5.00	4.44	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	179616	50.0	49.7	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	38	5356	0.5000	0.4893	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	94	2989	0.5000	0.6250	
60 Isobutyl alcohol	43	3.571	3.571	0.000	47	2264	12.5	14.2	a
61 t-Amyl alcohol	59	3.643	3.643	0.000	71	1357	5.00	5.01	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	391790	50.0	50.0	
63 Isopropyl acetate	43	3.757	3.750	0.007	97	3534	0.5000	0.4996	
64 Methylcyclohexane	83	3.815	3.815	0.000	93	2900	0.5000	0.4709	
65 Trichloroethene	130	3.829	3.836	-0.007	95	2075	0.5000	0.5430	
66 2-ethoxy-2-methyl butane	59	4.072	4.080	-0.008	93	4094	0.5000	0.4618	
68 n-Butanol	56	4.244	4.209	0.035	22	621	12.5	12.7	
67 Dibromomethane	93	4.209	4.209	0.000	95	1092	0.5000	0.4954	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	92	1941	0.5000	0.4898	
70 Ethyl acrylate	55	4.402	4.373	0.029	96	1405	0.5000	0.3060	
71 Dichlorobromomethane	83	4.380	4.380	0.000	98	1927	0.5000	0.4474	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	32189	1000.0	1000.0	
73 Methyl methacrylate	100	4.588	4.574	0.014	90	877	1.00	0.8689	
74 1,4-Dioxane	88	4.588	4.588	0.000	44	1039	25.0	25.4	
75 n-Propyl acetate	43	4.753	4.731	0.022	98	2127	0.5000	0.4062	
76 2-Chloroethyl vinyl ether	63	5.025	4.996	0.029	36	658	0.5000	0.5375	
77 cis-1,3-Dichloropropene	75	5.039	5.032	0.007	92	2598	0.5000	0.4513	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	690468	50.0	50.8	
79 Toluene	91	5.283	5.283	0.000	92	8599	0.5000	0.5291	
80 Epichlorohydrin	57	5.319	5.312	0.007	97	2789	10.0	8.30	
81 2-Nitropropane	41	5.548	5.541	0.007	89	790	1.00	1.03	
82 Tetrachloroethene	166	5.720	5.713	0.007	97	2083	0.5000	0.5454	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.763	5.756	0.007	96	7533	2.50	2.12	
84 trans-1,3-Dichloropropene	75	5.806	5.784	0.022	87	1895	0.5000	0.3857	
85 1,1,2-Trichloroethane	83	5.964	5.963	0.001	91	1094	0.5000	0.4092	
86 Ethyl methacrylate	69	6.057	6.042	0.015	92	1705	0.5000	0.3744	M
87 Chlorodibromomethane	129	6.171	6.164	0.007	97	1267	0.5000	0.3945	
88 1,3-Dichloropropane	76	6.286	6.279	0.007	91	2461	0.5000	0.4343	
89 Ethylene Dibromide	107	6.429	6.415	0.014	97	1334	0.5000	0.4305	
90 n-Butyl acetate	43	6.773	6.751	0.022	95	1909	0.5000	0.3016	
91 2-Hexanone	43	6.837	6.816	0.021	94	4944	2.50	1.99	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	86	473456	50.0	50.0	
93 Chlorobenzene	112	7.131	7.124	0.007	93	5183	0.5000	0.5094	
94 Ethylbenzene	106	7.217	7.210	0.007	97	2644	0.5000	0.4804	
95 1,1,1,2-Tetrachloroethane	131	7.246	7.238	0.008	89	1460	0.5000	0.4639	
96 m-Xylene & p-Xylene	106	7.446	7.425	0.021	0	3417	0.5000	0.5050	
97 o-Xylene	106	8.026	8.019	0.007	94	3065	0.5000	0.4756	
98 Bromoform	173	8.084	8.084	0.000	86	745	0.5000	0.3822	
99 Styrene	104	8.134	8.105	0.029	96	4201	0.5000	0.4102	M
100 n-Butyl acrylate	73	8.463	8.428	0.035	93	724	0.5000	0.2416	a
101 Isopropylbenzene	105	8.514	8.506	0.008	96	8348	0.5000	0.4939	
102 Amyl acetate (mixed isomer	43	8.872	8.843	0.029	37	2356	0.5000	0.3339	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	200380	50.0	50.5	
104 Bromobenzene	156	9.001	8.993	0.008	97	2220	0.5000	0.5135	
105 N-Propylbenzene	91	9.151	9.144	0.007	99	9791	0.5000	0.4900	
106 1,1,2,2-Tetrachloroethane	83	9.294	9.287	0.007	96	2134	0.5000	0.5021	
107 2-Chlorotoluene	91	9.330	9.316	0.014	97	7059	0.5000	0.5112	
108 4-Ethyltoluene	105	9.344	9.330	0.014	98	8631	0.5000	0.5077	
109 1,2,3-Trichloropropane	110	9.430	9.423	0.007	92	549	0.5000	0.4531	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	92	6683	0.5000	0.4828	
111 trans-1,4-Dichloro-2-buten	53	9.609	9.552	0.057	11	343	0.5000	0.5193	a
112 4-Chlorotoluene	91	9.602	9.588	0.014	97	5995	0.5000	0.4786	
113 tert-Butylbenzene	119	9.953	9.960	-0.007	95	6107	0.5000	0.5130	
114 Butyl Methacrylate	87	10.097	10.082	0.015	44	1460	0.5000	0.5237	
115 1,2,4-Trimethylbenzene	105	10.097	10.089	0.008	95	7175	0.5000	0.4966	
116 sec-Butylbenzene	105	10.254	10.247	0.007	99	8968	0.5000	0.5019	
117 1,3-Dichlorobenzene	146	10.534	10.512	0.022	73	3926	0.5000	0.4901	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	97	7512	0.5000	0.4961	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	278968	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	86	4841	0.5000	0.5621	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	97	7365	0.5000	0.4956	
121 2,3-Dihydroindene	117	10.956	10.949	0.007	93	7536	0.5000	0.5063	
122 Benzyl chloride	126	11.150	11.128	0.022	73	334	0.5000	0.2145	
123 p-Diethylbenzene	119	11.142	11.142	0.000	91	3836	0.5000	0.4794	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	7124	0.5000	0.5205	
125 1,2-Dichlorobenzene	146	11.343	11.321	0.022	96	3706	0.5000	0.4833	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	95	6550	0.5000	0.4848	
127 1,2-Dibromo-3-Chloropropan	157	12.374	12.367	0.007	1	258	0.5000	0.3508	a
128 1,3,5-Trichlorobenzene	180	12.417	12.410	0.007	95	2888	0.5000	0.5184	
129 1,2,4-Trichlorobenzene	180	13.091	13.084	0.007	96	2737	0.5000	0.5288	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	86	1024	0.5000	0.5414	
131 Naphthalene	128	13.384	13.377	0.007	99	5665	0.5000	0.4661	
132 1,2,3-Trichlorobenzene	180	13.549	13.542	0.007	94	2067	0.5000	0.4586	
S 133 1,2-Dichloroethene, Total	100				0		1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		0.5000	0.8370	
S 135 Xylenes, Total	100				0		1.00	0.9806	
S 137 Total BTEX	1				0		2.50	2.49	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

14DIOXINTER_00082	Amount Added:	15.00	Units: uL	
MIX I Hi_00087	Amount Added:	0.50	Units: uL	
MIX 2 Hi_00068	Amount Added:	0.50	Units: uL	
Ethanol mix_00012	Amount Added:	0.50	Units: uL	
GAS Hi_00243	Amount Added:	0.50	Units: uL	
ACROLEIN W_00074	Amount Added:	2.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

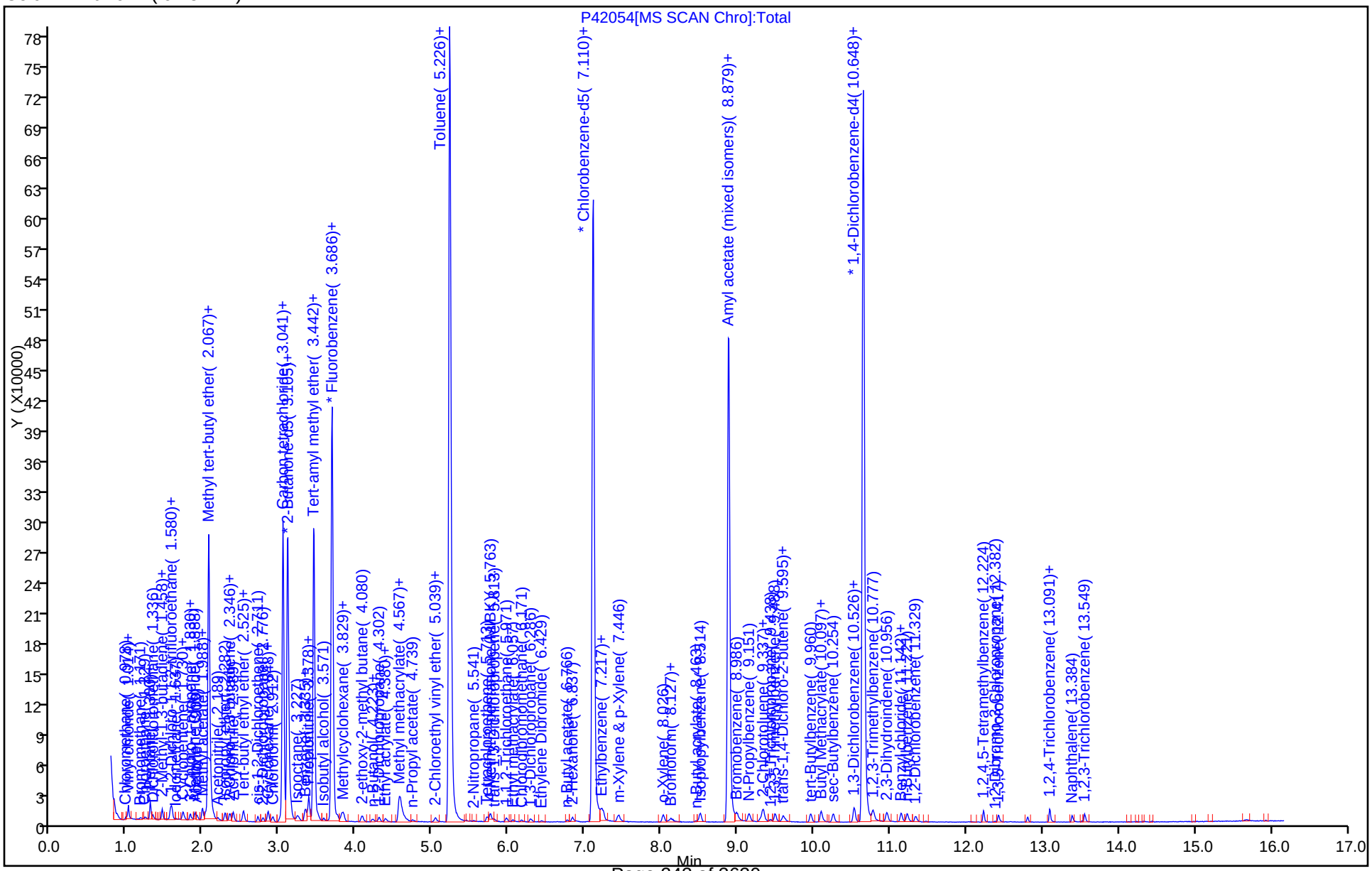
Report Date: 07-Mar-2018 11:20:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D

Injection Date:	05-Mar-2018 23:30:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	STD05			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

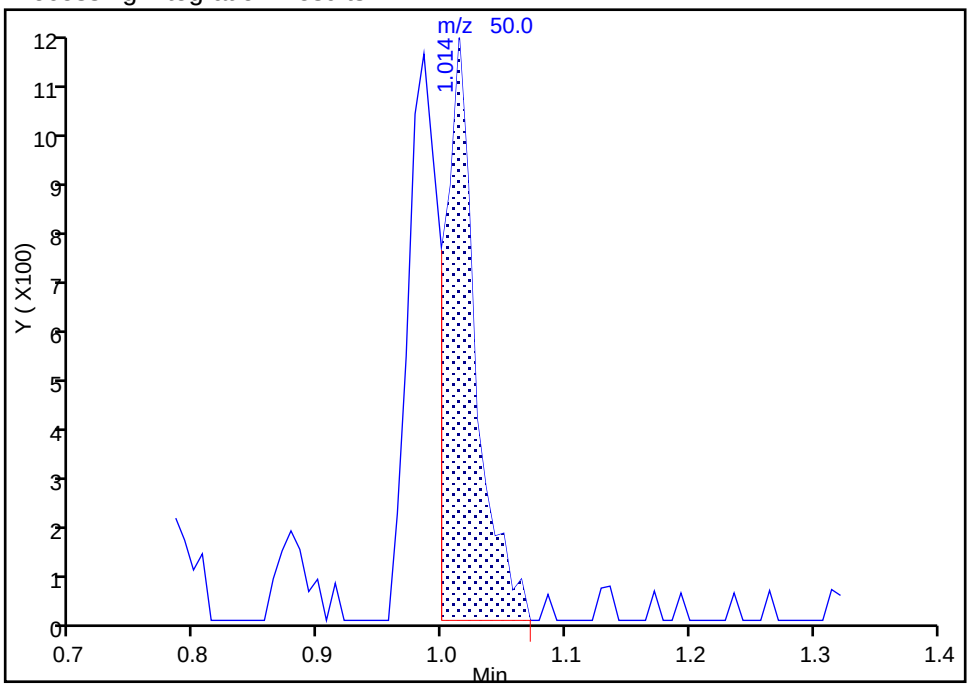
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

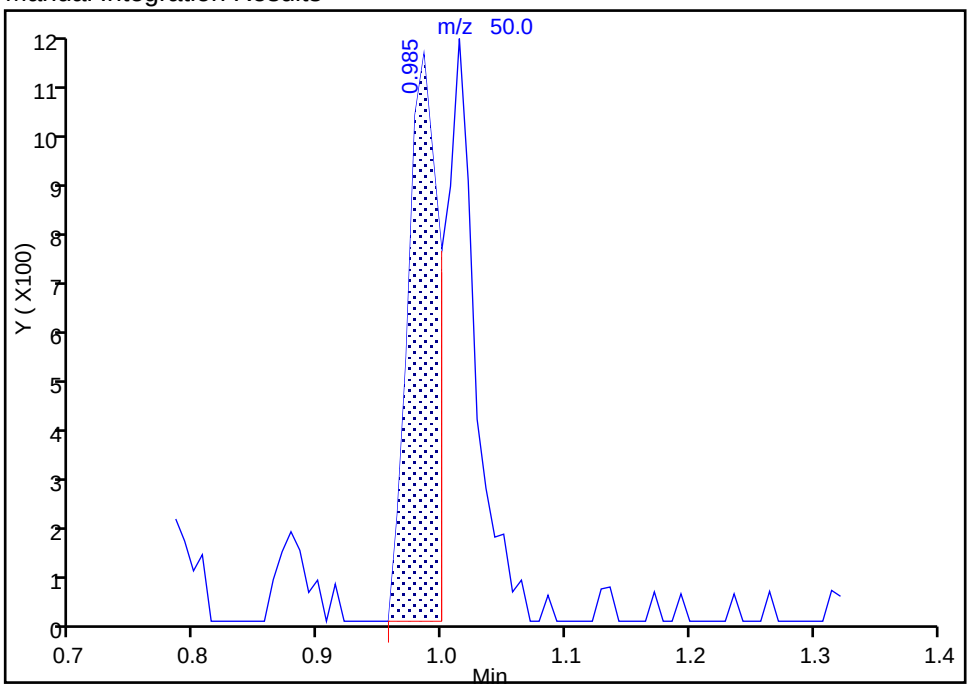
Processing Integration Results

RT: 1.01
Area: 2113
Amount: 0.556563
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 2003
Amount: 0.531993
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 02:38:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

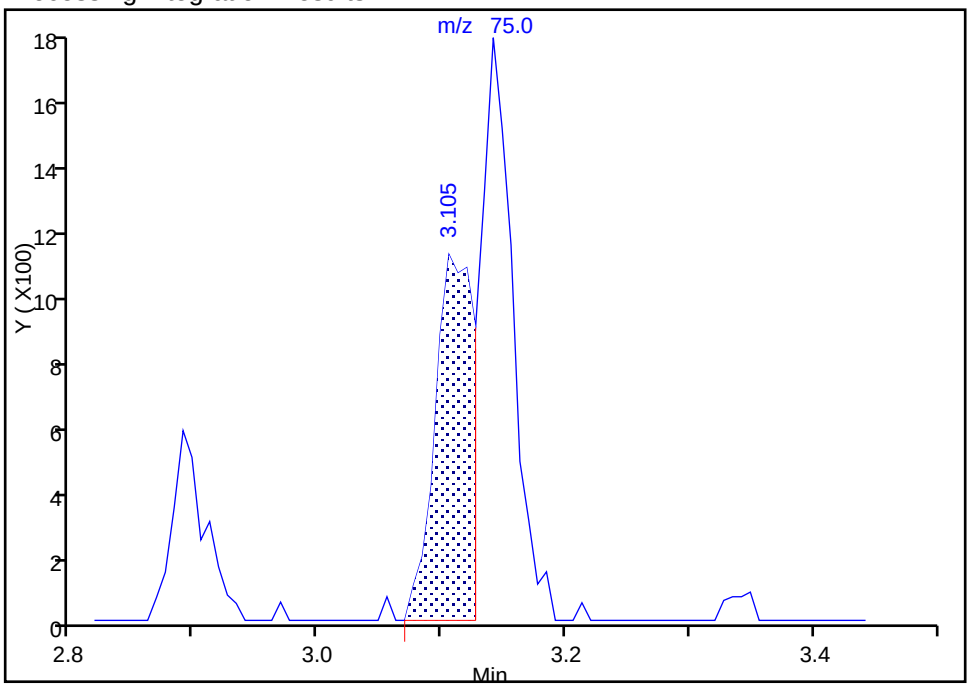
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

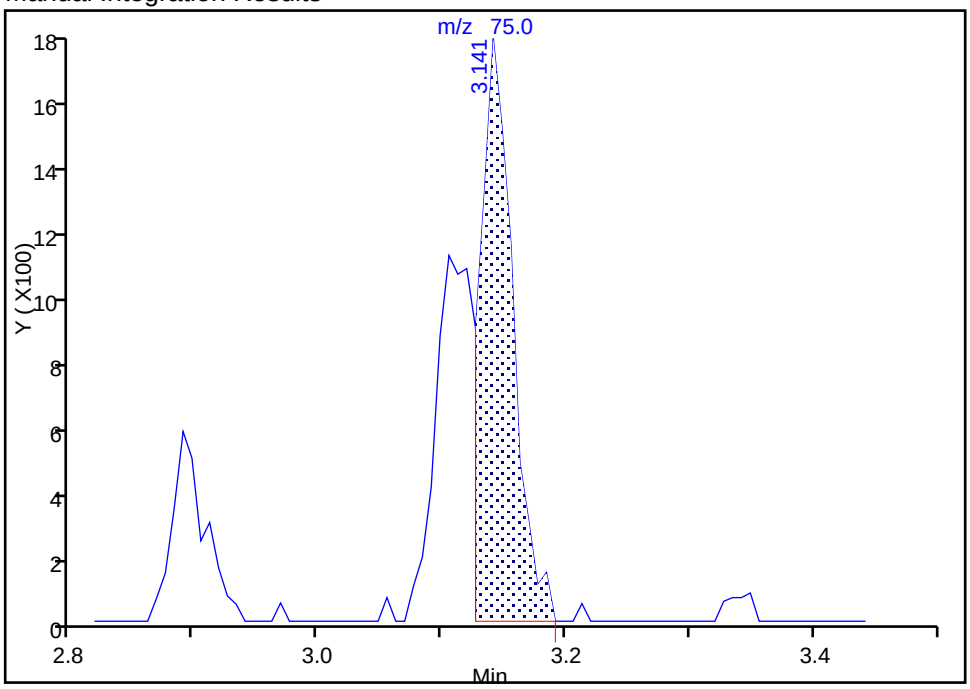
Processing Integration Results

RT: 3.11
Area: 2426
Amount: 0.471792
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 3248
Amount: 0.604060
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 02:39:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

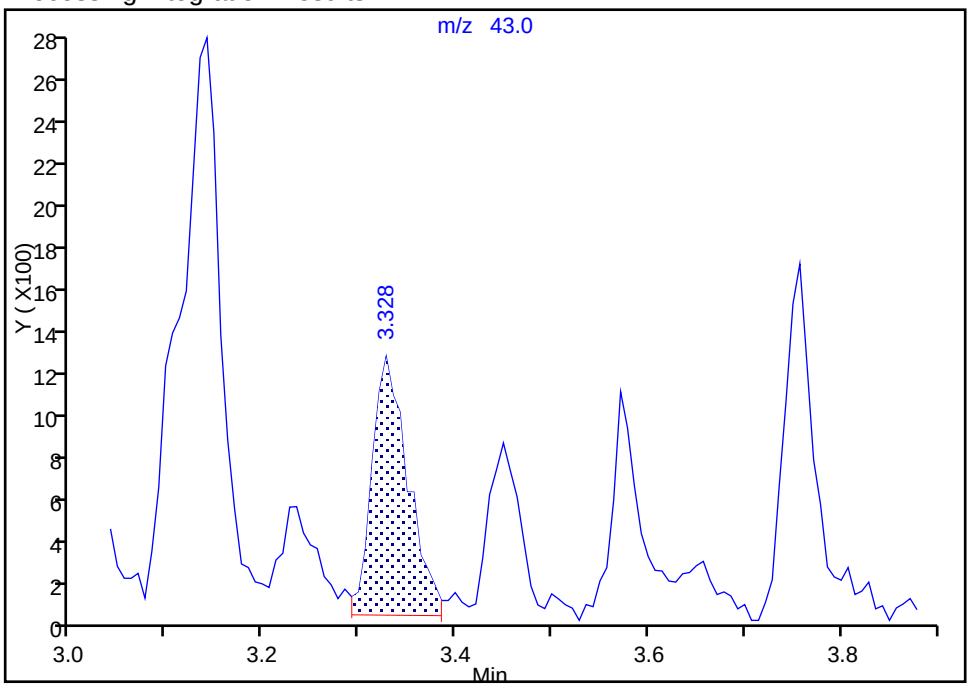
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

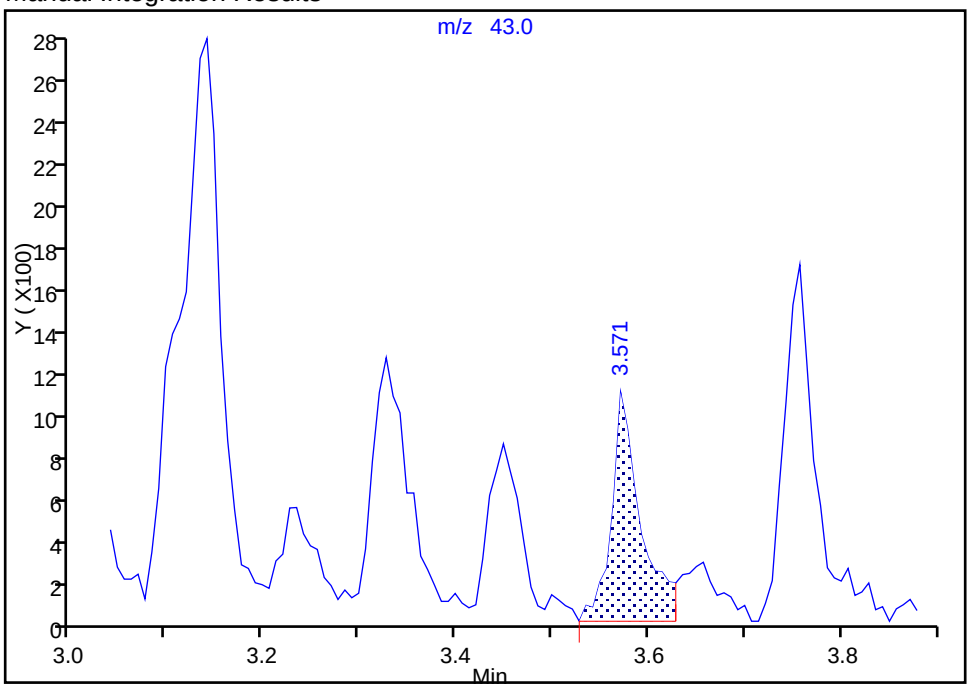
Processing Integration Results

RT: 3.33
Area: 3151
Amount: 18.569784
Amount Units: ug/l



Manual Integration Results

RT: 3.57
Area: 2264
Amount: 14.189664
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 08:51:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

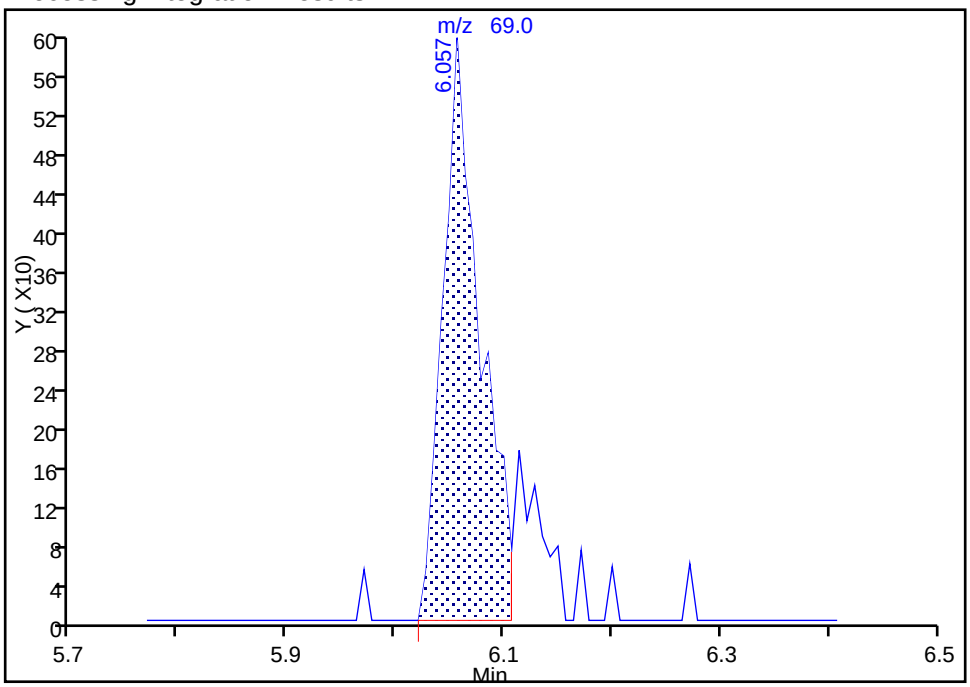
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

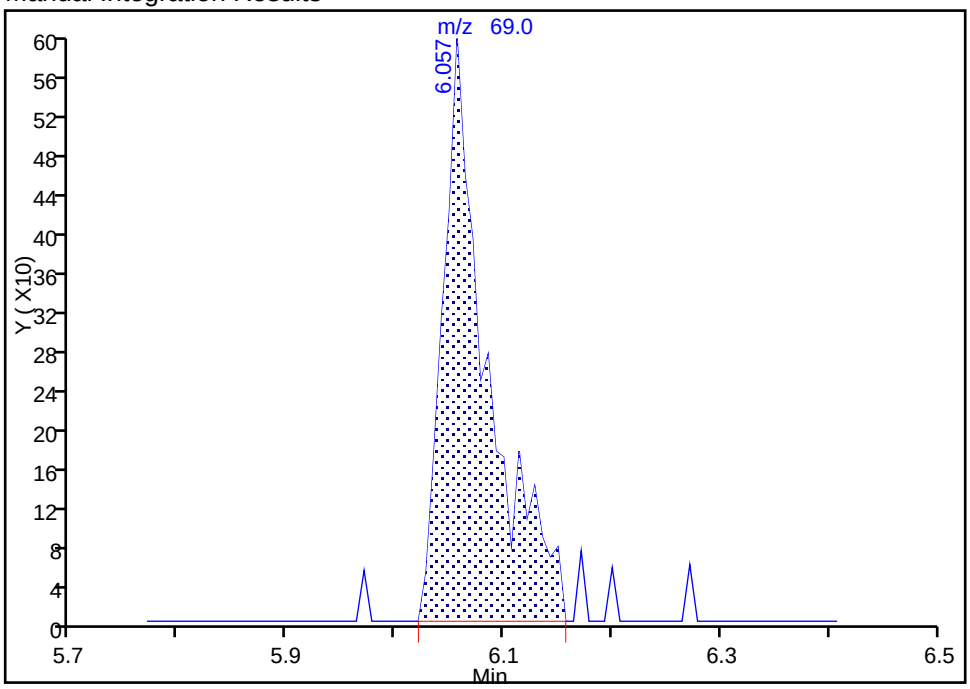
Processing Integration Results

RT: 6.06
Area: 1429
Amount: 0.267894
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 1705
Amount: 0.374355
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 09:11:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

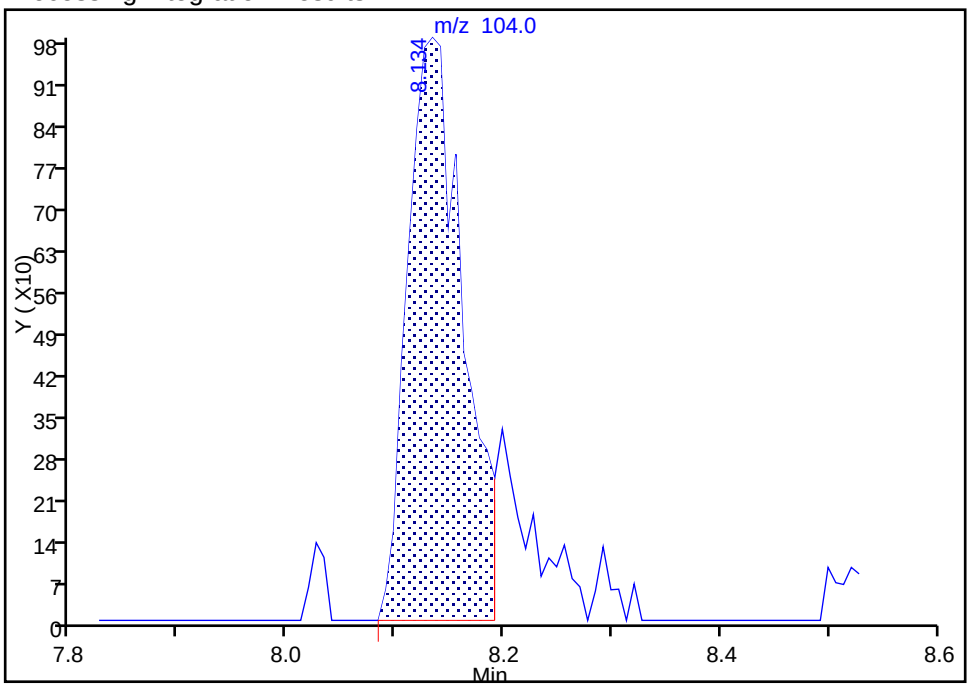
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

99 Styrene, CAS: 100-42-5

Signal: 1

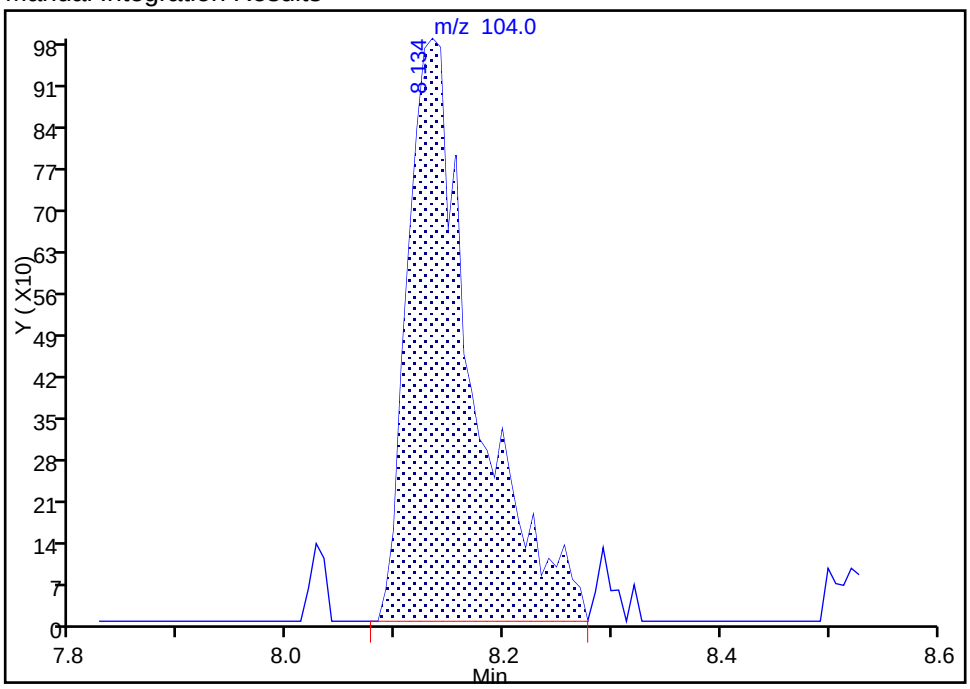
Processing Integration Results

RT: 8.13
Area: 3524
Amount: 0.308100
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 4201
Amount: 0.410154
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 08:53:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

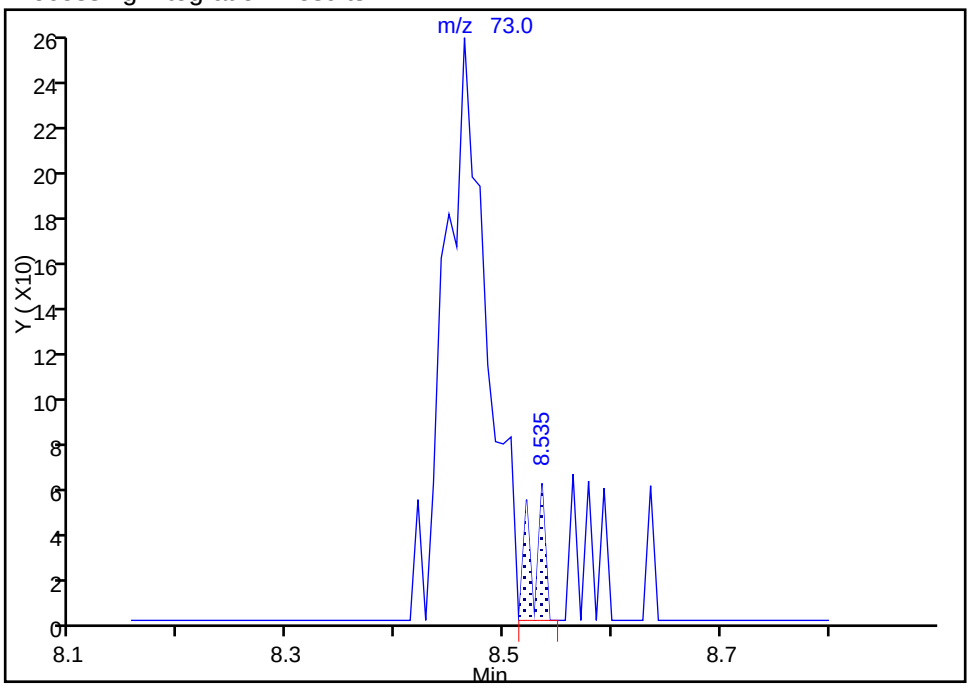
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

100 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

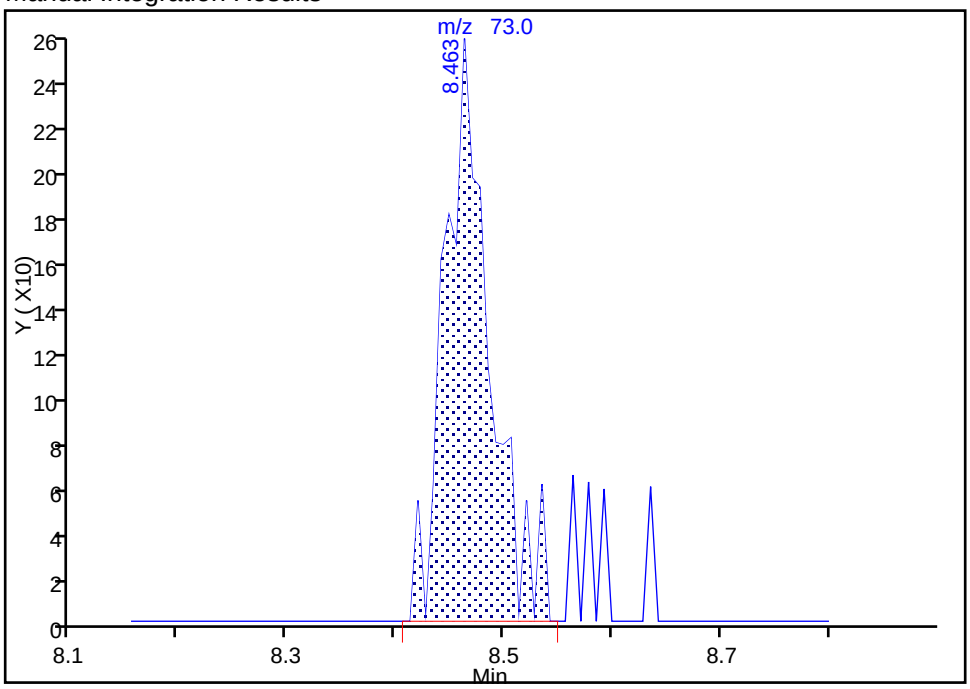
Processing Integration Results

RT: 8.54
Area: 48
Amount: 0.016021
Amount Units: ug/l



Manual Integration Results

RT: 8.46
Area: 724
Amount: 0.241639
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 02:38:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

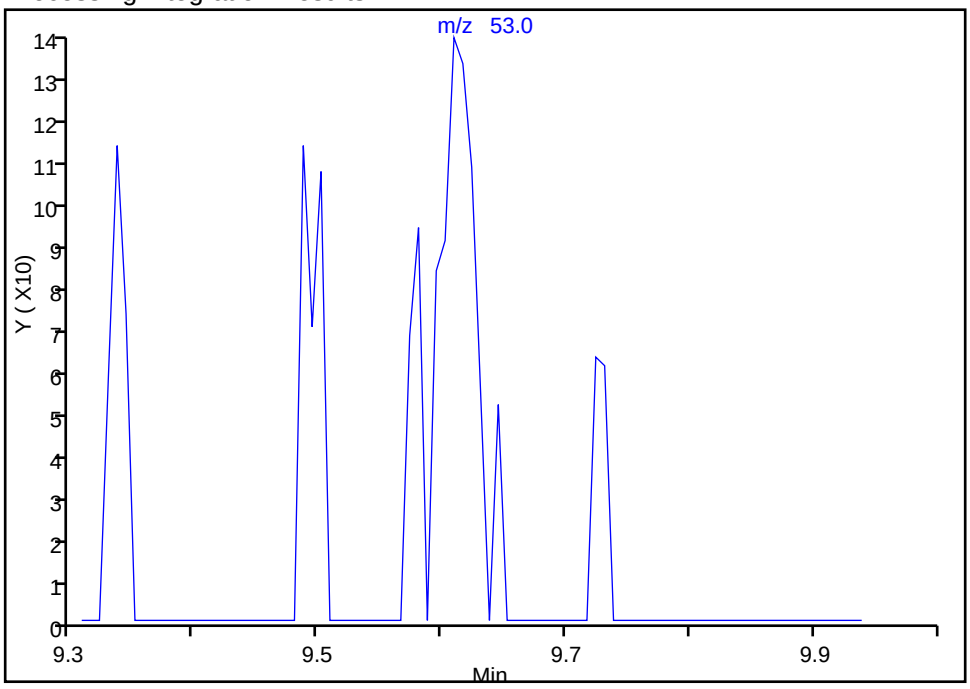
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

111 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

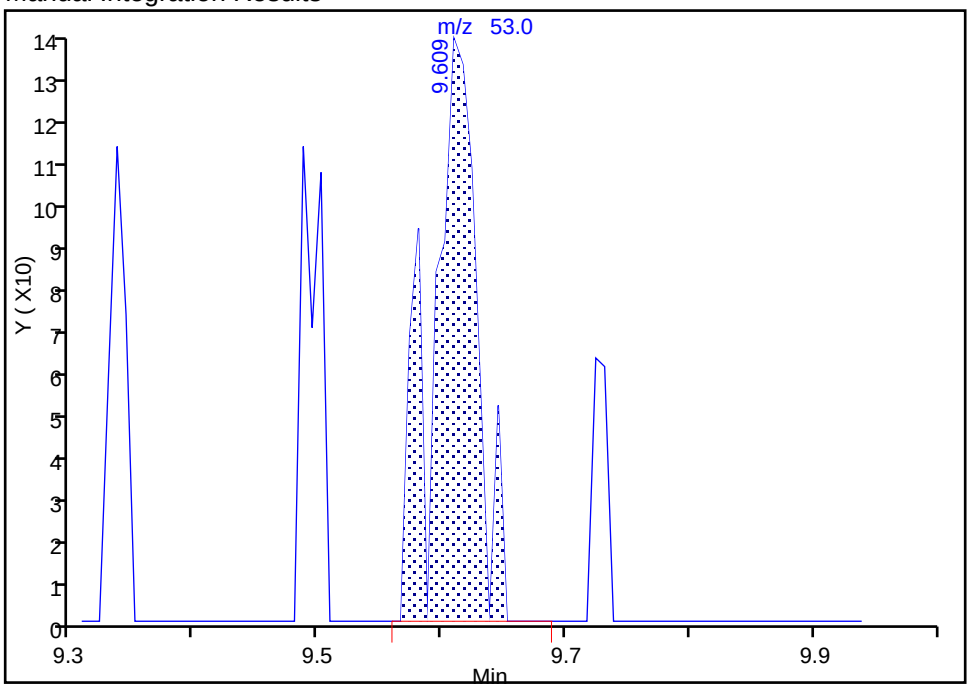
Not Detected
Expected RT: 9.55

Processing Integration Results



Manual Integration Results

RT: 9.61
Area: 343
Amount: 0.519304
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 02:38:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

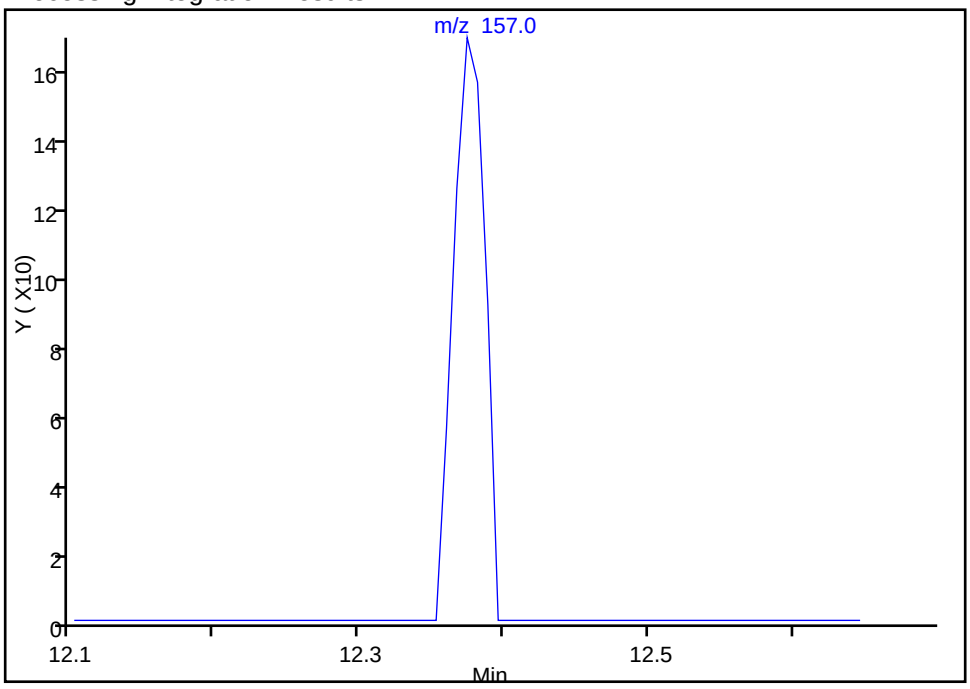
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42054.D
Injection Date: 05-Mar-2018 23:30:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

127 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

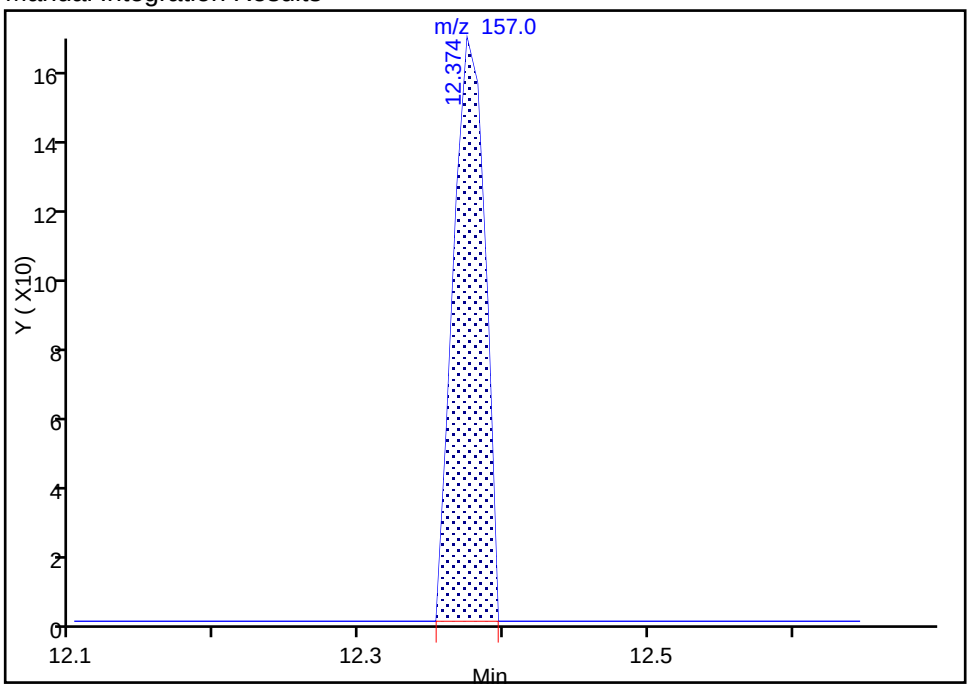
Not Detected
Expected RT: 12.37

Processing Integration Results



Manual Integration Results

RT: 12.37
Area: 258
Amount: 0.350779
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 02:40:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Mar-2018 23:55:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0068378-005
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:20:48 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 05-Mar-2018 23:37:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.863	-0.007	87	952	1.00	0.7819	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	97	3570	1.00	0.9016	
4 Chloromethane	50	0.985	0.985	0.000	97	3458	1.00	0.9753	a
5 Vinyl chloride	62	1.007	1.007	0.000	93	4579	1.00	1.02	
3 Butadiene	54	1.014	1.014	0.000	97	4119	1.00	1.02	
6 Bromomethane	94	1.171	1.171	0.000	98	1096	1.00	0.8109	
7 Chloroethane	64	1.236	1.236	0.000	98	2838	1.00	1.00	
9 Pentane	72	1.300	1.300	0.000	96	1115	2.00	1.87	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	92	4360	1.00	1.00	
10 Dichlorofluoromethane	67	1.336	1.336	0.000	98	6197	1.00	1.05	
11 2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	95	4188	1.00	0.9175	
12 Ethyl ether	59	1.465	1.465	0.000	97	3131	1.00	1.00	
13 Ethanol	46	1.537	1.544	-0.007	95	768	40.0	38.4	M
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	86	4214	1.00	1.06	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	97	3385	1.00	1.06	
16 Carbon disulfide	76	1.580	1.587	-0.007	99	12290	1.00	1.05	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.594	-0.007	92	2822	1.00	0.9541	
18 Iodomethane	142	1.644	1.644	0.000	94	920	1.00	0.2690	
19 Cyclopentene	67	1.730	1.730	0.000	97	8884	1.00	1.05	
20 Acrolein	56	1.752	1.752	0.000	92	2302	4.00	4.09	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	93	2104	1.00	1.05	
22 Isopropyl alcohol	45	1.852	1.852	0.000	98	2633	10.0	11.0	
23 Methylene Chloride	84	1.888	1.888	0.000	95	4498	1.00	1.12	
24 Acetone	43	1.916	1.916	0.000	87	6147	5.00	4.57	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	3650	1.00	1.04	
26 Methyl acetate	43	1.988	1.988	0.000	100	14789	5.00	5.36	
27 Hexane	86	2.031	2.024	0.007	75	663	1.00	0.7726	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	91	10105	1.00	1.02	
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	313635	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	97	3988	10.0	10.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	100	5248	10.0	10.3	
32 Isopropyl ether	45	2.282	2.282	0.000	97	12297	1.00	0.9881	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	90	2992	1.00	0.9612	
34 1,1-Dichloroethane	63	2.346	2.353	-0.007	99	6383	1.00	1.03	
35 Acrylonitrile	53	2.389	2.382	0.007	97	14162	10.0	10.1	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	90	10733	1.00	0.9749	
37 Vinyl acetate	43	2.525	2.525	0.000	100	13956	2.00	1.84	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	98	3889	1.00	1.03	
39 2,2-Dichloropropane	77	2.776	2.783	-0.007	98	4426	1.00	0.99	
41 Chlorobromomethane	128	2.848	2.848	0.000	90	1785	1.00	1.02	
40 Cyclohexane	56	2.848	2.848	0.000	90	5476	1.00	0.9179	
42 Chloroform	83	2.912	2.905	0.007	98	5574	1.00	0.99	
43 Carbon tetrachloride	117	2.998	2.998	0.000	96	3531	1.00	0.9697	
44 Ethyl acetate	70	3.012	3.005	0.007	97	975	2.00	2.24	
45 Methyl acrylate	55	3.019	3.012	0.007	72	2902	1.00	0.9100	
46 Tetrahydrofuran	42	3.027	3.019	0.008	95	3086	2.00	2.09	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	160421	50.0	53.4	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	36	4409	1.00	0.9647	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	309762	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	2365	5.00	5.11	
51 1,1-Dichloropropene	75	3.141	3.148	-0.007	76	5604	1.00	1.11	a
52 Isooctane	57	3.234	3.234	0.000	99	10097	1.00	0.9574	
53 n-Heptane	57	3.335	3.327	0.008	90	2738	1.00	0.9809	
54 Benzene	78	3.335	3.335	0.000	95	14348	1.00	1.00	
55 Propionitrile	54	3.363	3.356	0.007	94	4939	10.0	9.77	
56 Methacrylonitrile	67	3.378	3.378	0.000	92	14694	10.0	9.86	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	179822	50.0	52.8	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	39	10099	1.00	0.9796	
59 1,2-Dichloroethane	62	3.507	3.499	0.008	96	4950	1.00	1.10	
60 Isobutyl alcohol	43	3.571	3.571	0.000	93	3482	25.0	22.6	
61 t-Amyl alcohol	59	3.643	3.643	0.000	96	2509	10.0	9.61	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	368967	50.0	50.0	
63 Isopropyl acetate	43	3.757	3.750	0.007	96	6331	1.00	0.9504	
64 Methylcyclohexane	83	3.815	3.815	0.000	96	5484	1.00	0.9457	
65 Trichloroethene	130	3.836	3.836	0.000	97	3498	1.00	0.9719	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	91	8472	1.00	1.01	
67 Dibromomethane	93	4.216	4.209	0.007	99	1941	1.00	0.9350	
68 n-Butanol	56	4.237	4.209	0.028	53	1631	25.0	24.8	
69 1,2-Dichloropropane	63	4.309	4.302	0.007	90	3662	1.00	0.9812	
70 Ethyl acrylate	55	4.388	4.373	0.015	64	4061	1.00	0.9392	
71 Dichlorobromomethane	83	4.388	4.380	0.008	98	3815	1.00	0.9406	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	31094	1000.0	1000.0	
73 Methyl methacrylate	100	4.581	4.574	0.007	93	1733	2.00	1.82	
74 1,4-Dioxane	88	4.603	4.588	0.014	77	2168	50.0	54.9	
75 n-Propyl acetate	43	4.746	4.731	0.015	98	4899	1.00	0.99	
76 2-Chloroethyl vinyl ether	63	5.011	4.996	0.015	92	1275	1.00	0.8563	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	93	4904	1.00	0.8886	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	689004	50.0	52.9	
79 Toluene	91	5.283	5.283	0.000	92	15703	1.00	1.01	
80 Epichlorohydrin	57	5.326	5.312	0.014	97	5997	20.0	18.5	
81 2-Nitropropane	41	5.541	5.541	0.000	97	1234	2.00	1.71	
82 Tetrachloroethene	166	5.720	5.713	0.007	98	3854	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	15783	5.00	4.62	
84 trans-1,3-Dichloropropene	75	5.799	5.784	0.015	96	3790	1.00	0.8048	
85 1,1,2-Trichloroethane	83	5.971	5.963	0.008	94	2372	1.00	0.9256	
86 Ethyl methacrylate	69	6.049	6.042	0.007	86	3406	1.00	0.7941	
87 Chlorodibromomethane	129	6.171	6.164	0.007	98	2714	1.00	0.8815	
88 1,3-Dichloropropane	76	6.286	6.279	0.007	95	5207	1.00	0.9585	
89 Ethylene Dibromide	107	6.422	6.415	0.007	97	2525	1.00	0.8501	
90 n-Butyl acetate	43	6.766	6.751	0.015	99	3497	1.00	0.5763	
91 2-Hexanone	43	6.830	6.816	0.014	98	10808	5.00	4.51	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	86	453861	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	93	9475	1.00	0.9715	
94 Ethylbenzene	106	7.224	7.210	0.014	98	5032	1.00	0.9537	
95 1,1,1,2-Tetrachloroethane	131	7.239	7.238	0.000	90	2703	1.00	0.8958	
96 m-Xylene & p-Xylene	106	7.439	7.425	0.014	0	6127	1.00	0.9446	
97 o-Xylene	106	8.019	8.019	0.000	93	5729	1.00	0.9273	
98 Bromoform	173	8.091	8.084	0.007	93	1526	1.00	0.8168	
99 Styrene	104	8.127	8.105	0.022	96	8532	1.00	0.8690	M
100 n-Butyl acrylate	73	8.449	8.428	0.021	97	1440	1.00	0.5013	
101 Isopropylbenzene	105	8.514	8.506	0.008	96	15219	1.00	0.9392	
102 Amyl acetate (mixed isomer	43	8.865	8.843	0.022	38	4029	1.00	0.6055	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	92	200035	50.0	52.6	
104 Bromobenzene	156	9.001	8.993	0.008	98	4077	1.00	1.00	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	18407	1.00	0.9768	
106 1,1,2,2-Tetrachloroethane	83	9.294	9.287	0.007	96	3748	1.00	0.9351	
107 2-Chlorotoluene	91	9.330	9.316	0.014	96	12793	1.00	0.9826	
108 4-Ethyltoluene	105	9.337	9.330	0.007	98	15330	1.00	0.9563	
109 1,2,3-Trichloropropane	110	9.438	9.423	0.015	94	1111	1.00	0.9723	
110 1,3,5-Trimethylbenzene	105	9.495	9.488	0.007	94	12449	1.00	0.9538	
111 trans-1,4-Dichloro-2-buten	53	9.588	9.552	0.036	69	738	1.00	0.9273	
112 4-Chlorotoluene	91	9.602	9.588	0.014	98	11712	1.00	0.99	
113 tert-Butylbenzene	119	9.953	9.960	-0.007	96	11075	1.00	0.9866	
114 Butyl Methacrylate	87	10.089	10.082	0.007	49	3119	1.00	0.9337	
115 1,2,4-Trimethylbenzene	105	10.097	10.089	0.008	95	13313	1.00	0.9771	
116 sec-Butylbenzene	105	10.254	10.247	0.007	99	16288	1.00	0.9666	
117 1,3-Dichlorobenzene	146	10.534	10.512	0.022	72	7413	1.00	0.9814	
118 4-Isopropyltoluene	119	10.534	10.526	0.008	98	13559	1.00	0.9495	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	263055	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	94	8476	1.00	1.04	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	99	13703	1.00	0.9778	
121 2,3-Dihydroindene	117	10.956	10.949	0.007	94	13382	1.00	0.9535	
122 Benzyl chloride	126	11.142	11.128	0.014	80	731	1.00	0.4978	
123 p-Diethylbenzene	119	11.142	11.142	0.000	86	7132	1.00	0.9452	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	12031	1.00	0.9321	
125 1,2-Dichlorobenzene	146	11.336	11.321	0.015	94	6967	1.00	0.9636	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	11528	1.00	0.9049	
127 1,2-Dibromo-3-Chloropropan	157	12.374	12.367	0.007	90	603	1.00	0.8694	
128 1,3,5-Trichlorobenzene	180	12.425	12.410	0.015	97	5002	1.00	0.9522	
129 1,2,4-Trichlorobenzene	180	13.091	13.084	0.007	93	4540	1.00	0.9302	
130 Hexachlorobutadiene	225	13.098	13.091	0.007	88	1893	1.00	1.06	
131 Naphthalene	128	13.384	13.377	0.007	99	11564	1.00	1.01	
132 1,2,3-Trichlorobenzene	180	13.549	13.542	0.007	96	4385	1.00	1.03	
S 133 1,2-Dichloroethene, Total	100				0		2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		1.00	1.69	
S 135 Xylenes, Total	100				0		2.00	1.87	
S 137 Total BTEX	1				0		5.00	4.84	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GAS Hi_00243	Amount Added:	1.00	Units: uL	
Ethanol mix_00012	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	1.00	Units: uL	
MIX I Hi_00087	Amount Added:	1.00	Units: uL	
14DIOXINTER_00082	Amount Added:	30.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Mar-2018 11:20:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D

Injection Date: 05-Mar-2018 23:55:30 Instrument ID: CVOAMS13 Operator ID:

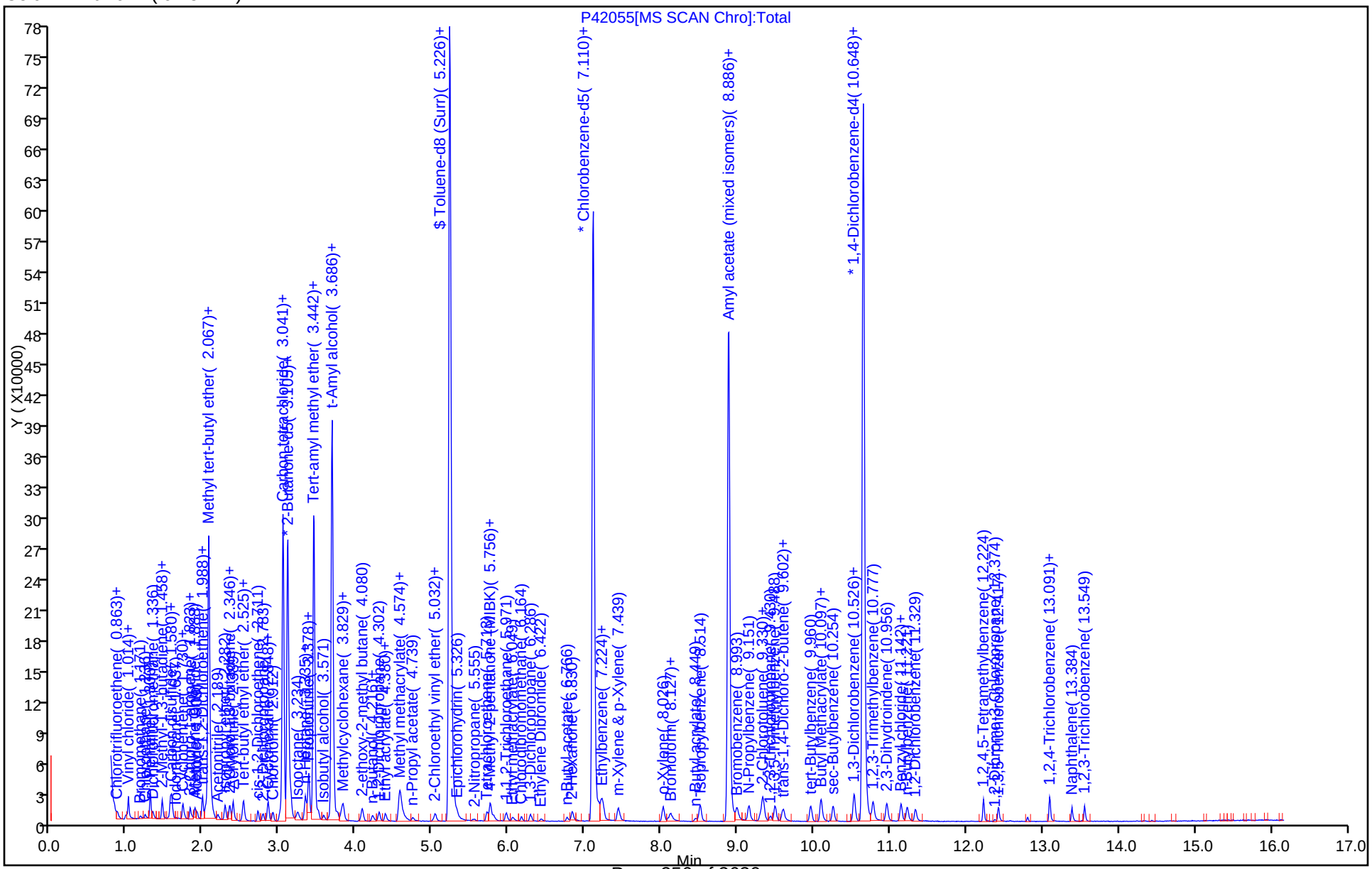
Lims ID: STD1 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

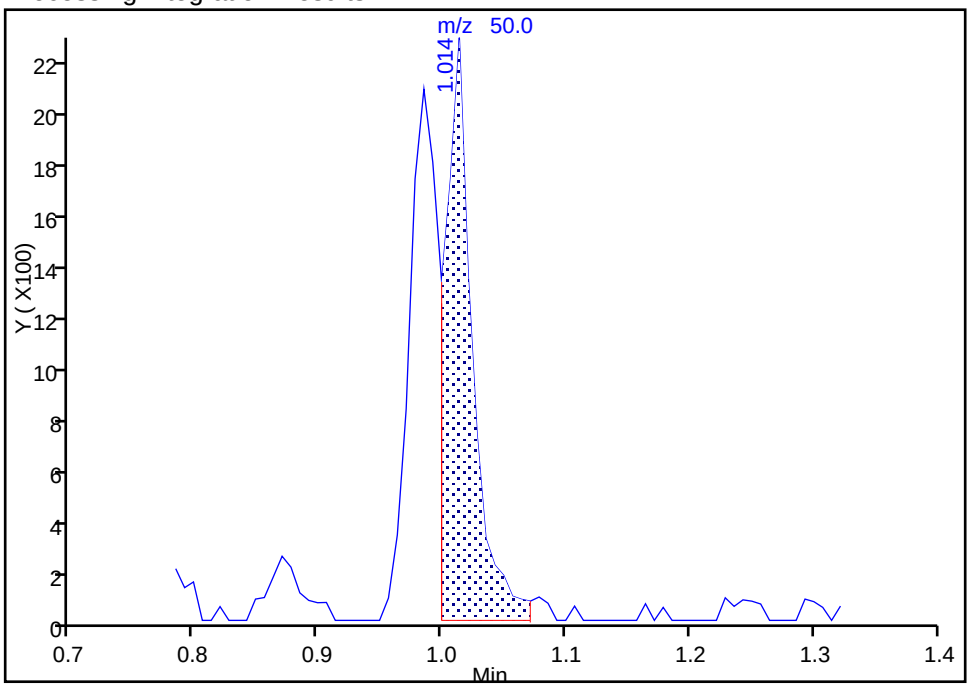
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D
Injection Date: 05-Mar-2018 23:55:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

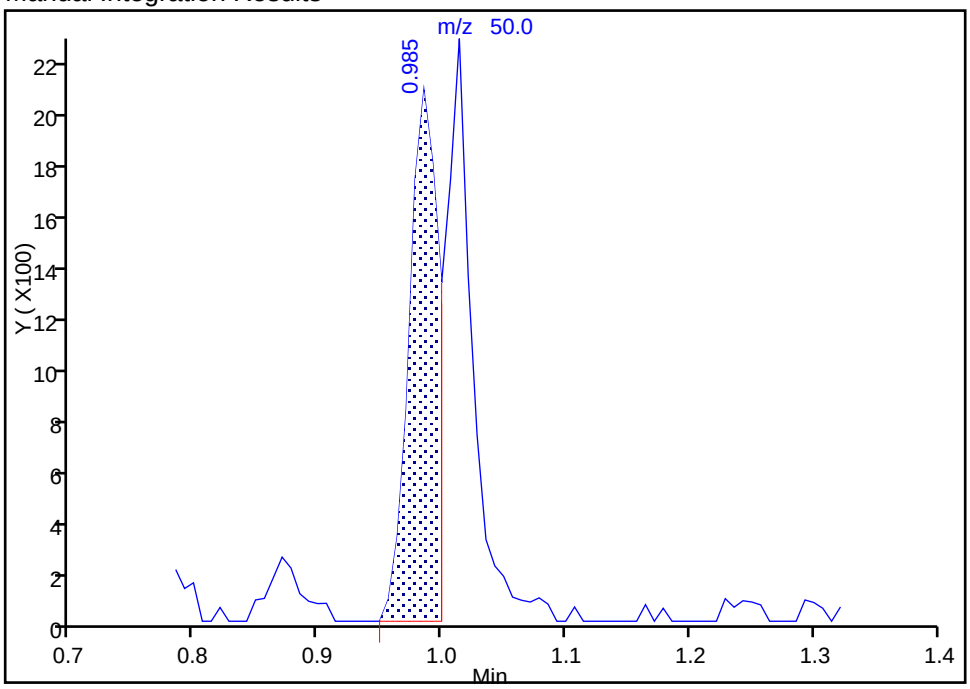
Processing Integration Results

RT: 1.01
Area: 3542
Amount: 0.941793
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 3458
Amount: 0.975250
Amount Units: ug/l



Reviewer: boykink, 05-Mar-2018 23:35:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

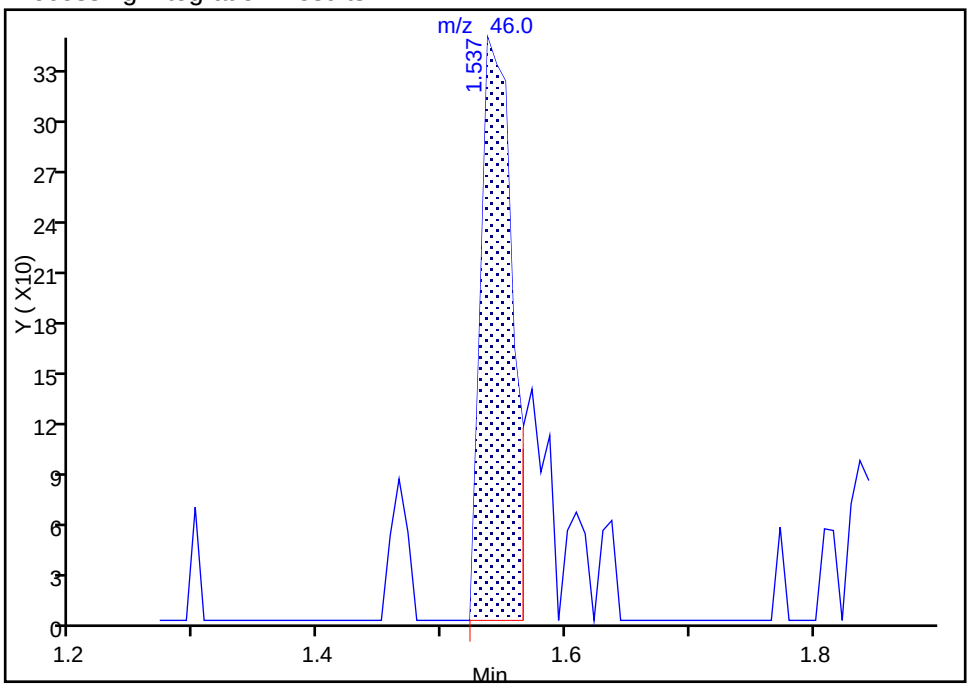
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D
Injection Date: 05-Mar-2018 23:55:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Signal: 1

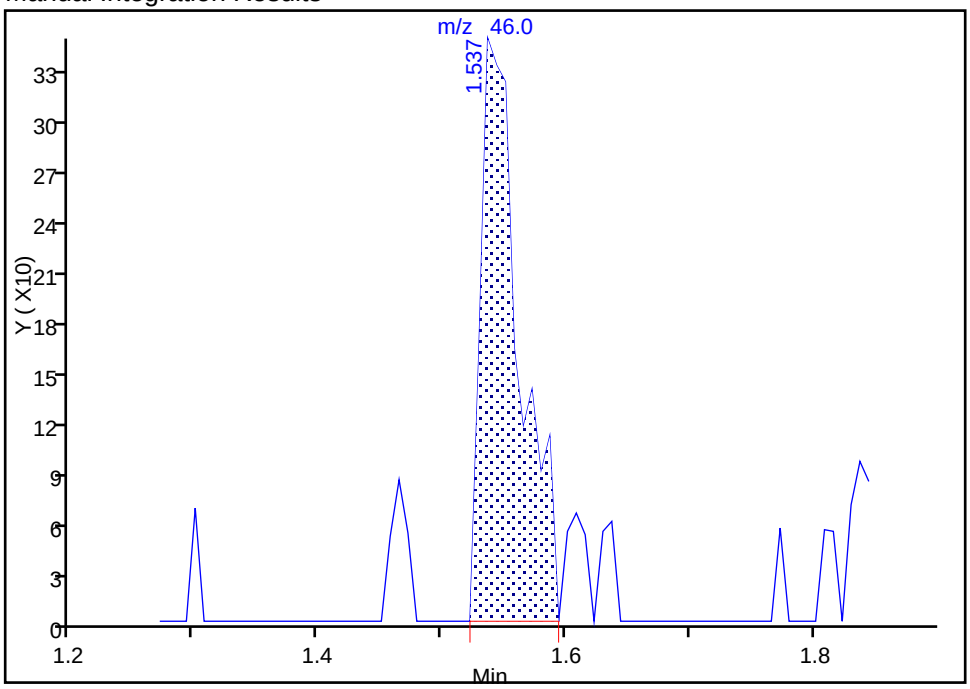
Processing Integration Results

RT: 1.54
Area: 623
Amount: 31.977990
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 768
Amount: 38.399986
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 09:06:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

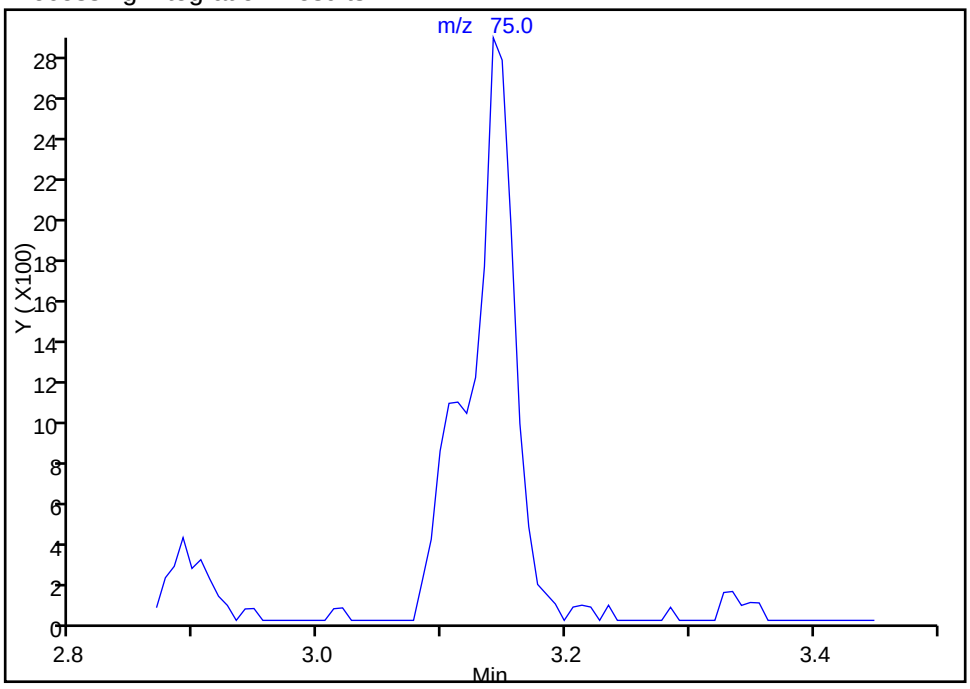
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D
Injection Date: 05-Mar-2018 23:55:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

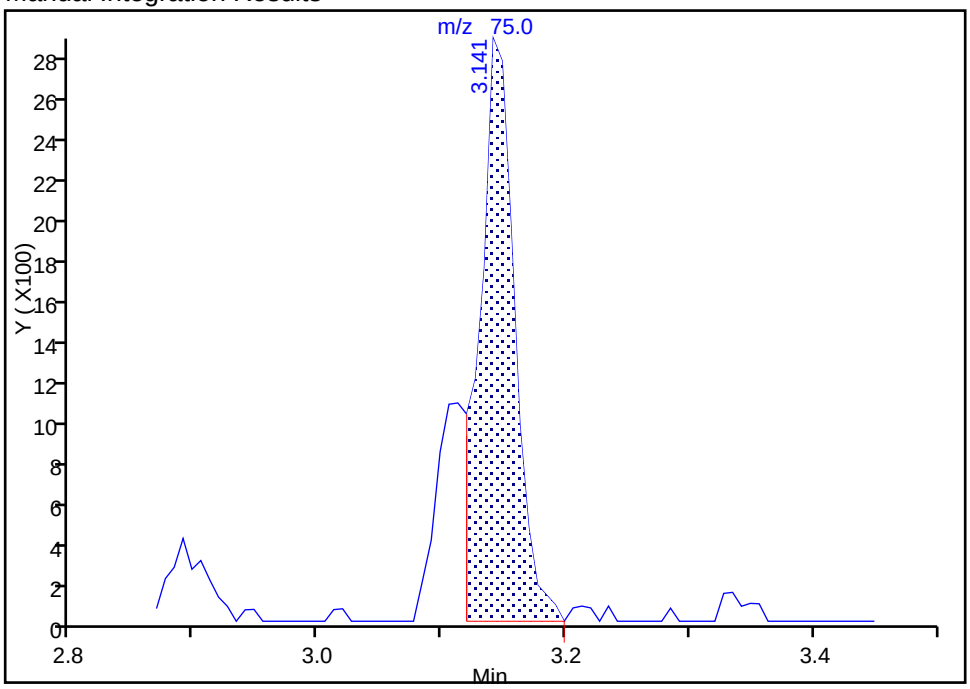
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 5604
Amount: 1.106695
Amount Units: ug/l



Reviewer: boykink, 05-Mar-2018 23:36:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

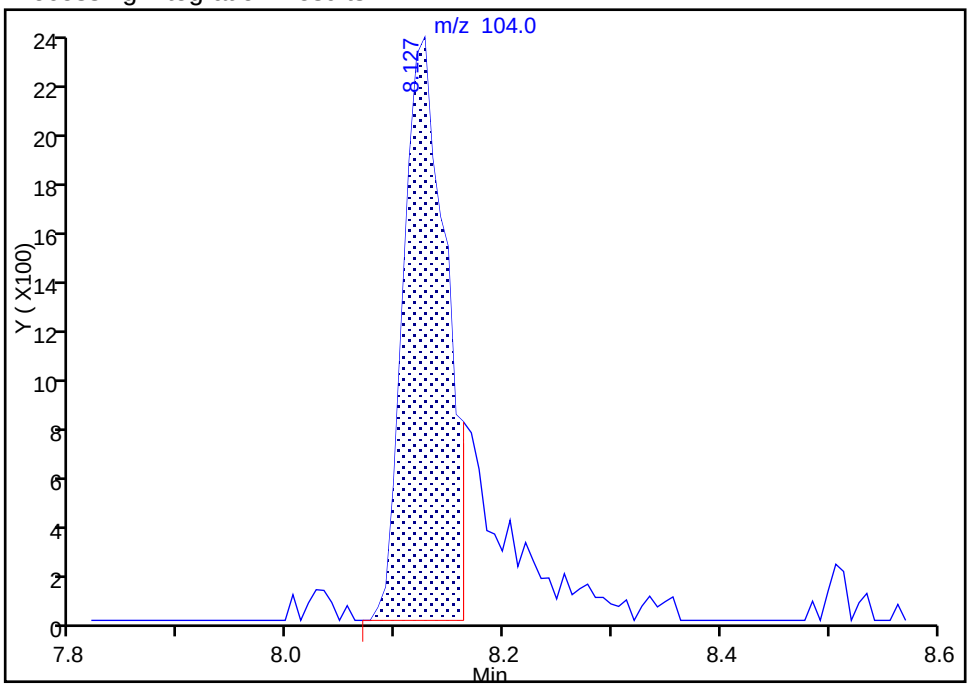
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42055.D
Injection Date: 05-Mar-2018 23:55:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

99 Styrene, CAS: 100-42-5

Signal: 1

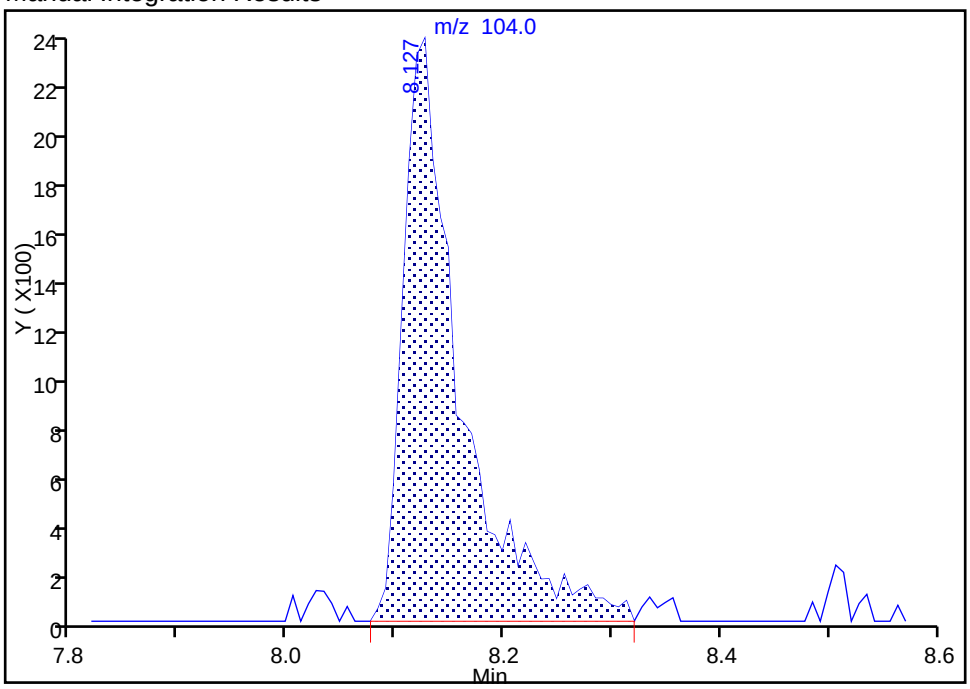
Processing Integration Results

RT: 8.13
Area: 6433
Amount: 0.675826
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 8532
Amount: 0.868965
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 08:54:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Mar-2018 00:28:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0068378-006
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:21:08 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 05-Mar-2018 23:54:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.863	-0.007	89	5954	5.00	4.55	
2 Dichlorodifluoromethane	85	0.870	0.871	-0.001	99	19648	5.00	4.61	
4 Chloromethane	50	0.985	0.985	0.000	98	20601	5.00	5.40	a
5 Vinyl chloride	62	1.007	1.007	0.000	97	22863	5.00	4.72	
3 Butadiene	54	1.014	1.014	0.000	97	18644	5.00	4.31	
6 Bromomethane	94	1.171	1.171	0.000	98	6572	5.00	4.63	
7 Chloroethane	64	1.236	1.236	0.000	98	16202	5.00	5.29	
8 Trichlorofluoromethane	101	1.307	1.300	0.007	93	21192	5.00	4.54	
9 Pentane	72	1.300	1.300	0.000	97	6203	10.0	9.84	
10 Dichlorofluoromethane	67	1.336	1.336	0.000	99	30716	5.00	4.83	
11 2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	96	22292	5.00	4.54	
12 Ethyl ether	59	1.465	1.465	0.000	92	16245	5.00	4.84	
13 Ethanol	46	1.544	1.544	0.000	99	4478	200.0	212.0	M
14 1,1-Dichloroethene	96	1.565	1.565	0.000	97	15072	5.00	4.39	
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	81	19804	5.00	4.62	
16 Carbon disulfide	76	1.580	1.587	-0.007	99	54944	5.00	4.36	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.594	-0.007	95	15073	5.00	4.74	
18 Iodomethane	142	1.644	1.644	0.000	97	6303	5.00	1.71	
19 Cyclopentene	67	1.730	1.730	0.000	96	41231	5.00	4.54	
20 Acrolein	56	1.751	1.752	-0.001	94	11401	20.0	19.2	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	95	10291	5.00	4.78	
22 Isopropyl alcohol	45	1.852	1.852	0.000	97	12849	50.0	50.8	
23 Methylene Chloride	84	1.888	1.888	0.000	95	19817	5.00	4.59	
24 Acetone	43	1.916	1.916	0.000	89	26614	25.0	24.2	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	95	17704	5.00	4.69	
26 Methyl acetate	43	1.988	1.988	0.000	100	73481	25.0	24.8	
27 Hexane	86	2.024	2.024	0.000	88	4160	5.00	4.51	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	94	52386	5.00	4.90	
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	331280	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	99	19016	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.188	2.189	-0.001	100	25826	50.0	48.0	
32 Isopropyl ether	45	2.282	2.282	0.000	98	63376	5.00	4.73	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	90	15299	5.00	4.57	
34 1,1-Dichloroethane	63	2.353	2.353	0.000	100	30997	5.00	4.66	
35 Acrylonitrile	53	2.389	2.382	0.007	97	72322	50.0	48.2	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	89	56120	5.00	4.74	
37 Vinyl acetate	43	2.525	2.525	0.000	100	68539	10.0	8.42	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	97	18878	5.00	4.67	
39 2,2-Dichloropropane	77	2.776	2.783	-0.007	98	20896	5.00	4.35	
40 Cyclohexane	56	2.847	2.848	-0.001	91	29260	5.00	4.56	
41 Chlorobromomethane	128	2.847	2.848	-0.001	93	9355	5.00	4.97	
42 Chloroform	83	2.912	2.905	0.007	99	27996	5.00	4.64	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	17394	5.00	4.44	
44 Ethyl acetate	70	3.012	3.005	0.007	98	4089	10.0	8.92	
45 Methyl acrylate	55	3.012	3.012	0.000	61	16036	5.00	4.67	
46 Tetrahydrofuran	42	3.026	3.019	0.007	96	15242	10.0	9.82	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	158227	50.0	49.0	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	96	22152	5.00	4.51	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	325533	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	99	11470	25.0	23.6	
51 1,1-Dichloropropene	75	3.141	3.148	-0.007	93	25342	5.00	4.65	a
52 Isooctane	57	3.234	3.234	0.000	99	52233	5.00	4.60	
53 n-Heptane	57	3.327	3.327	0.000	90	13299	5.00	4.43	
54 Benzene	78	3.335	3.335	-0.001	94	70581	5.00	4.60	
55 Propionitrile	54	3.363	3.356	0.007	96	25682	50.0	48.1	
56 Methacrylonitrile	67	3.377	3.378	-0.001	92	78672	50.0	49.1	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	180026	50.0	49.2	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	97	52259	5.00	4.71	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	95	22226	5.00	4.59	
60 Isobutyl alcohol	43	3.571	3.571	0.000	94	17726	125.0	109.0	
61 t-Amyl alcohol	59	3.643	3.643	0.000	91	12713	50.0	46.1	
* 62 Fluorobenzene	96	3.685	3.686	-0.001	99	396902	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	100	33149	5.00	4.63	
64 Methylcyclohexane	83	3.814	3.815	-0.001	97	27584	5.00	4.42	
65 Trichloroethene	130	3.836	3.836	0.000	98	17598	5.00	4.55	
66 2-ethoxy-2-methyl butane	59	4.079	4.080	-0.001	93	42312	5.00	4.71	
68 n-Butanol	56	4.216	4.209	0.007	90	8848	125.0	104.0	
67 Dibromomethane	93	4.208	4.209	-0.001	97	10816	5.00	4.84	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	92	18925	5.00	4.71	
70 Ethyl acrylate	55	4.380	4.373	0.007	89	22542	5.00	4.85	
71 Dichlorobromomethane	83	4.380	4.380	0.000	98	19978	5.00	4.58	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	33980	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	95	9355	10.0	9.15	
74 1,4-Dioxane	88	4.602	4.588	0.014	91	4165	100.0	96.6	
75 n-Propyl acetate	43	4.738	4.731	0.007	98	23913	5.00	4.51	
76 2-Chloroethyl vinyl ether	63	5.003	4.996	0.007	98	9976	5.00	4.75	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	93	26740	5.00	4.51	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	683184	50.0	48.8	
79 Toluene	91	5.283	5.283	0.000	93	76705	5.00	4.59	
80 Epichlorohydrin	57	5.319	5.312	0.007	99	32721	100.0	96.2	
81 2-Nitropropane	41	5.541	5.541	0.000	97	6690	10.0	8.64	
82 Tetrachloroethene	166	5.720	5.713	0.007	96	17662	5.00	4.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	97	85813	25.0	23.9	
84 trans-1,3-Dichloropropene	75	5.791	5.784	0.007	99	22203	5.00	4.39	
85 1,1,2-Trichloroethane	83	5.971	5.963	0.007	95	13375	5.00	4.86	
86 Ethyl methacrylate	69	6.042	6.042	0.000	91	21139	5.00	4.58	
87 Chlorodibromomethane	129	6.164	6.164	0.000	99	15086	5.00	4.56	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	95	28180	5.00	4.83	
89 Ethylene Dibromide	107	6.415	6.415	0.000	100	14561	5.00	4.57	
90 n-Butyl acetate	43	6.758	6.751	0.007	99	23100	5.00	3.55	
91 2-Hexanone	43	6.823	6.816	0.007	97	59930	25.0	23.8	
* 92 Chlorobenzene-d5	117	7.109	7.110	-0.001	86	487167	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	94	49313	5.00	4.71	
94 Ethylbenzene	106	7.210	7.210	0.000	98	26027	5.00	4.60	
95 1,1,1,2-Tetrachloroethane	131	7.246	7.238	0.008	96	14921	5.00	4.61	
96 m-Xylene & p-Xylene	106	7.432	7.425	0.007	0	31511	5.00	4.53	
97 o-Xylene	106	8.019	8.019	0.000	94	31131	5.00	4.69	
98 Bromoform	173	8.091	8.084	0.007	95	9138	5.00	4.56	
99 Styrene	104	8.112	8.105	0.007	97	45406	5.00	4.31	
100 n-Butyl acrylate	73	8.435	8.428	0.007	97	10791	5.00	3.50	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	80641	5.00	4.64	
102 Amyl acetate (mixed isomer	43	8.850	8.843	0.007	88	26215	5.00	3.58	a
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	200354	50.0	49.1	
104 Bromobenzene	156	8.993	8.993	0.000	99	20758	5.00	4.63	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	93733	5.00	4.53	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	20164	5.00	4.58	
107 2-Chlorotoluene	91	9.323	9.316	0.007	96	65413	5.00	4.57	
108 4-Ethyltoluene	105	9.337	9.330	0.007	97	79599	5.00	4.52	
109 1,2,3-Trichloropropane	110	9.430	9.423	0.007	98	5853	5.00	4.66	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	65769	5.00	4.59	
111 trans-1,4-Dichloro-2-buten	53	9.566	9.552	0.014	86	5188	5.00	4.84	
112 4-Chlorotoluene	91	9.588	9.588	0.000	98	59481	5.00	4.58	
113 tert-Butylbenzene	119	9.960	9.960	0.000	95	55670	5.00	4.51	
114 Butyl Methacrylate	87	10.089	10.082	0.007	50	18689	5.00	4.19	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	66724	5.00	4.46	
116 sec-Butylbenzene	105	10.254	10.247	0.007	99	84233	5.00	4.55	
117 1,3-Dichlorobenzene	146	10.519	10.512	0.007	95	37715	5.00	4.54	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	70283	5.00	4.48	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	289035	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.669	10.670	-0.001	94	40585	5.00	4.55	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	70657	5.00	4.59	
121 2,3-Dihydroindene	117	10.956	10.949	0.007	94	72824	5.00	4.72	
122 Benzyl chloride	126	11.128	11.128	0.000	97	4108	5.00	2.55	
123 p-Diethylbenzene	119	11.142	11.142	0.000	93	37298	5.00	4.50	
124 n-Butylbenzene	91	11.221	11.221	0.000	99	63183	5.00	4.46	
125 1,2-Dichlorobenzene	146	11.328	11.321	0.007	97	36822	5.00	4.63	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	63038	5.00	4.50	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	90	3332	5.00	4.37	
128 1,3,5-Trichlorobenzene	180	12.417	12.410	0.007	98	26447	5.00	4.58	
129 1,2,4-Trichlorobenzene	180	13.083	13.084	-0.001	95	23991	5.00	4.47	
130 Hexachlorobutadiene	225	13.098	13.091	0.007	93	8562	5.00	4.37	
131 Naphthalene	128	13.377	13.377	0.000	99	60085	5.00	4.77	
132 1,2,3-Trichlorobenzene	180	13.549	13.542	0.007	95	21699	5.00	4.65	
S 133 1,2-Dichloroethene, Total	100				0		10.0	9.35	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		5.00	8.91	
S 135 Xylenes, Total	100				0		10.0	9.22	
S 137 Total BTEX	1				0		25.0	23.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL		
GAS Hi_00243	Amount Added:	1.00	Units: uL		
Ethanol mix_00012	Amount Added:	1.00	Units: uL		
MIX 2 Hi_00068	Amount Added:	1.00	Units: uL		
MIX I Hi_00087	Amount Added:	1.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 07-Mar-2018 11:21:12 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D

Injection Date: 06-Mar-2018 00:28:30 Instrument ID: CVOAMS13 Operator ID:

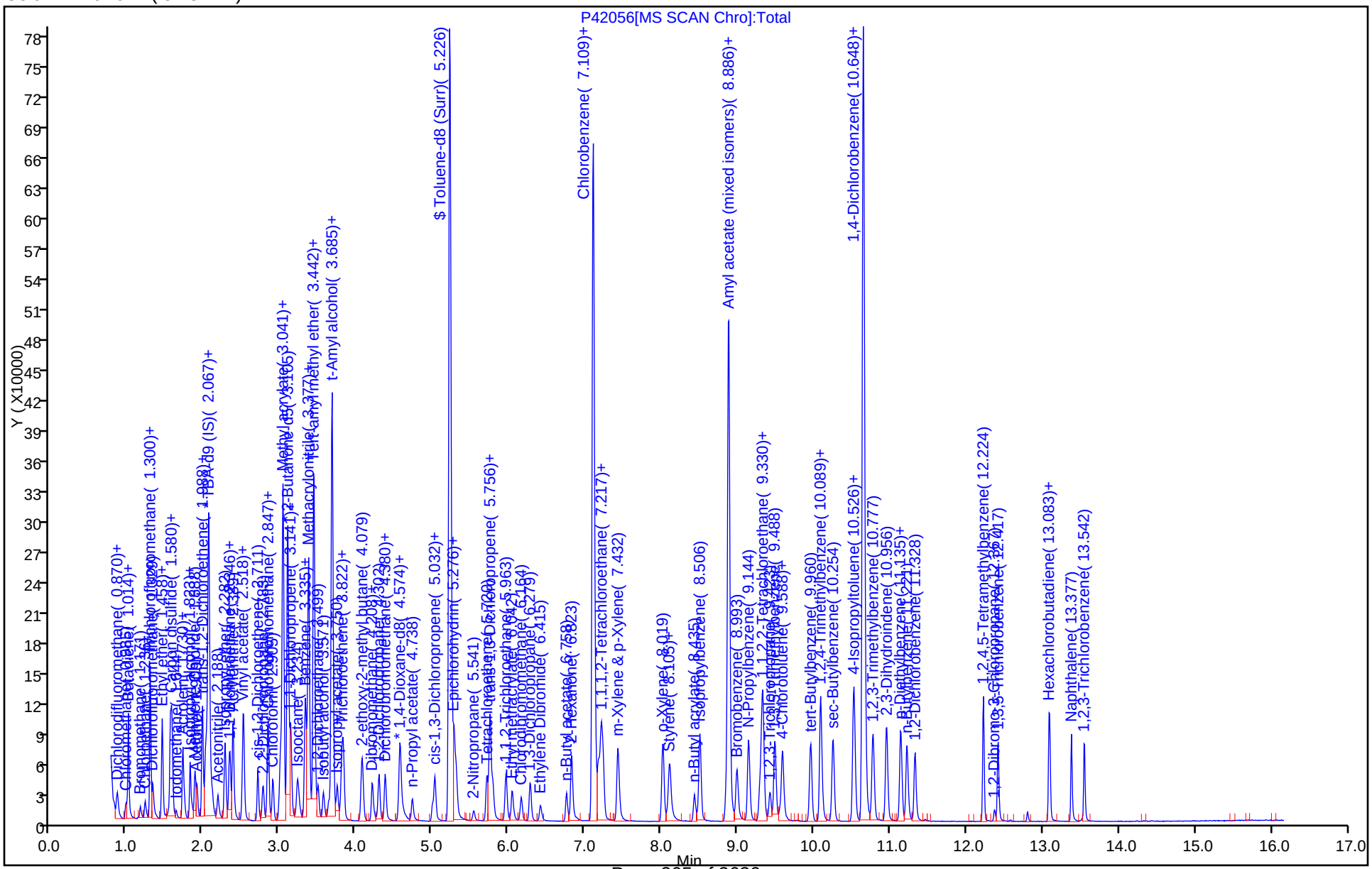
Lims ID: STD5 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

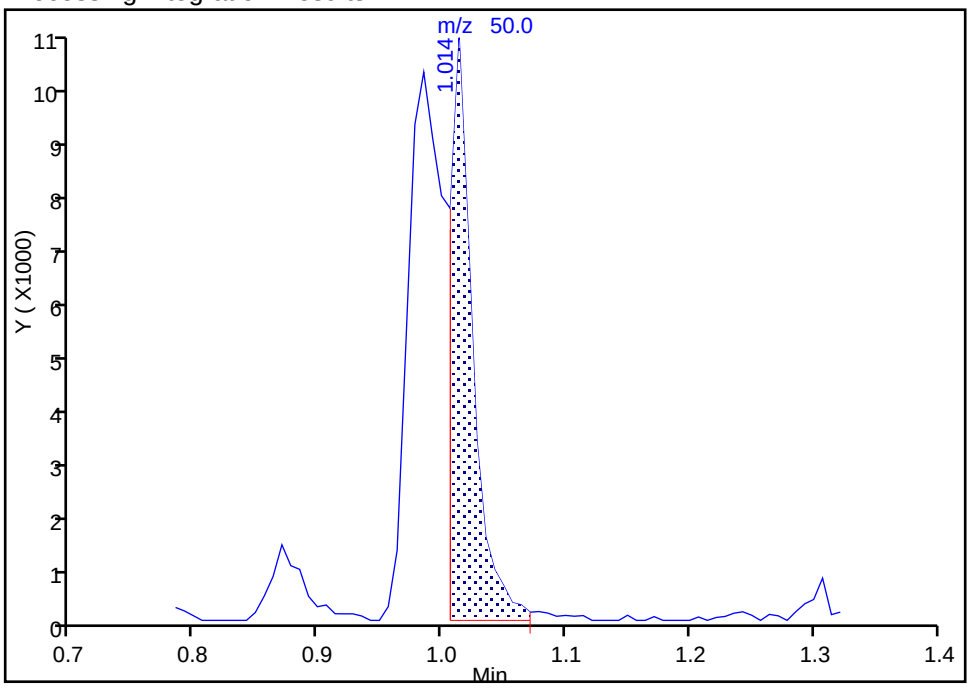
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D
Injection Date: 06-Mar-2018 00:28:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

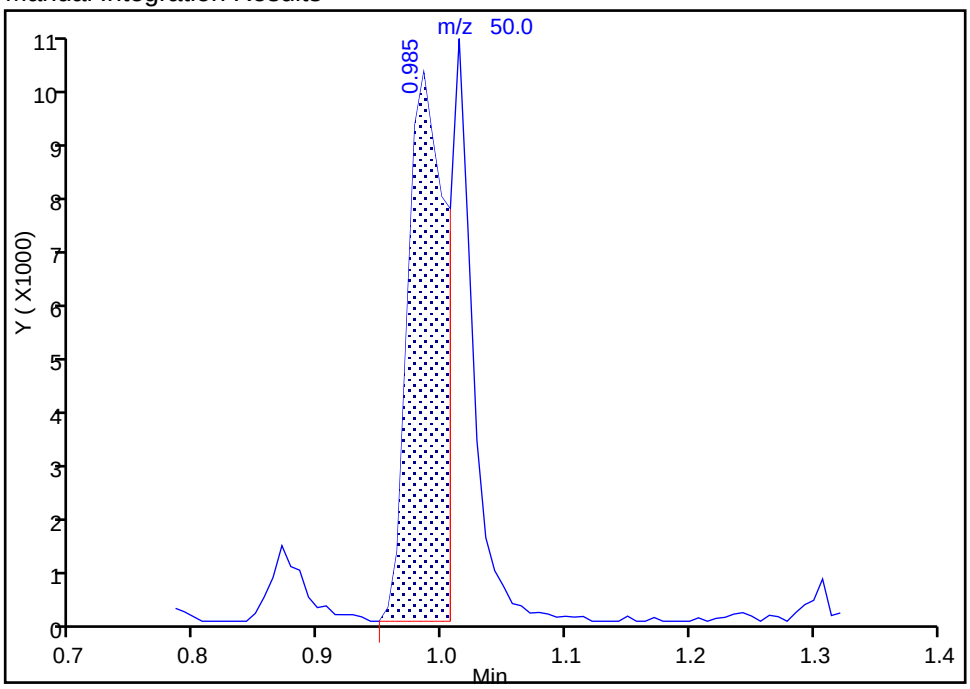
Processing Integration Results

RT: 1.01
Area: 13428
Amount: 5.001607
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 20601
Amount: 5.401116
Amount Units: ug/l



Reviewer: boykink, 05-Mar-2018 23:53:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

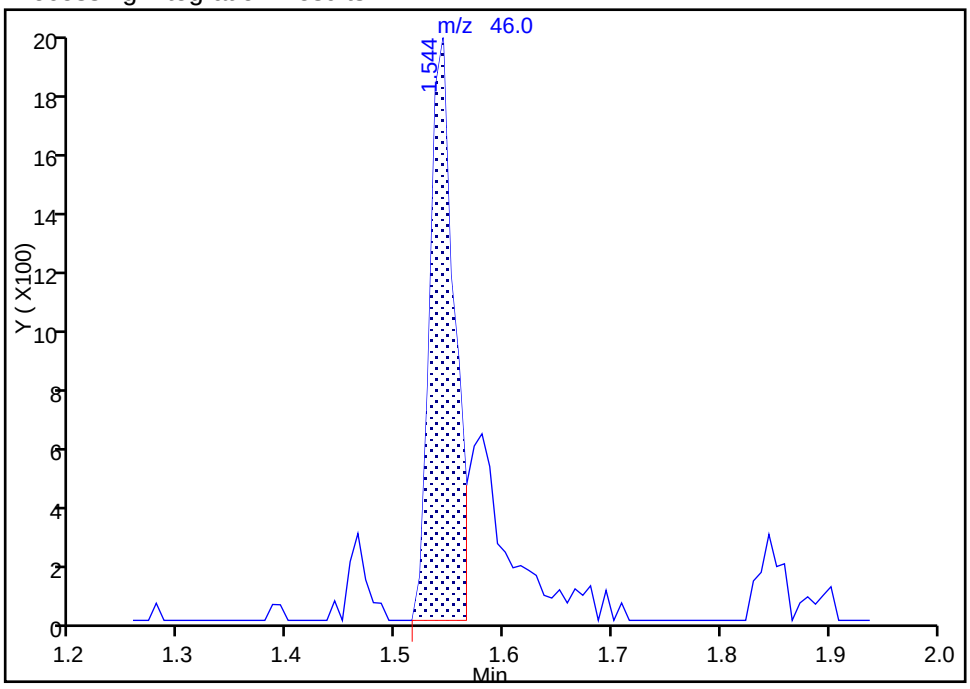
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D
Injection Date: 06-Mar-2018 00:28:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Signal: 1

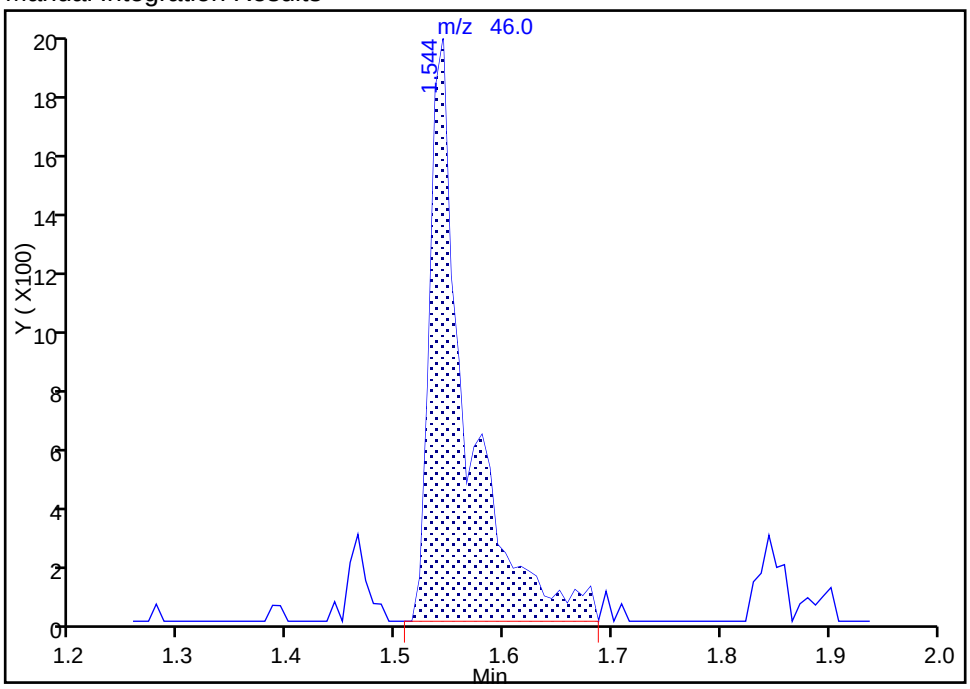
Processing Integration Results

RT: 1.54
Area: 3005
Amount: 153.8968
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 4478
Amount: 211.9743
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 09:06:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

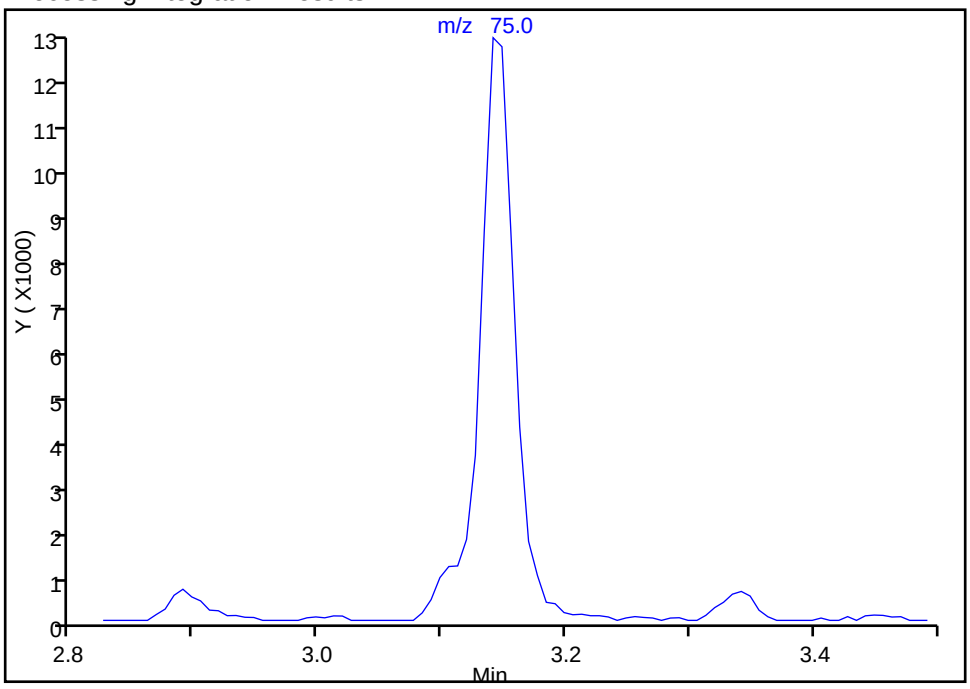
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D
Injection Date: 06-Mar-2018 00:28:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

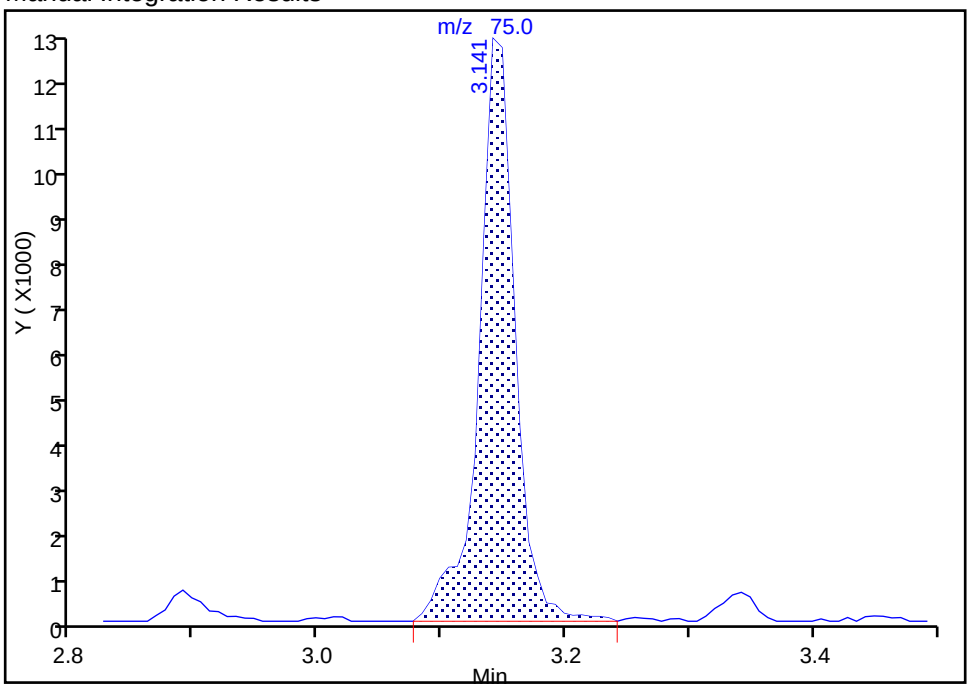
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 25342
Amount: 4.652376
Amount Units: ug/l



Reviewer: boykink, 05-Mar-2018 23:53:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

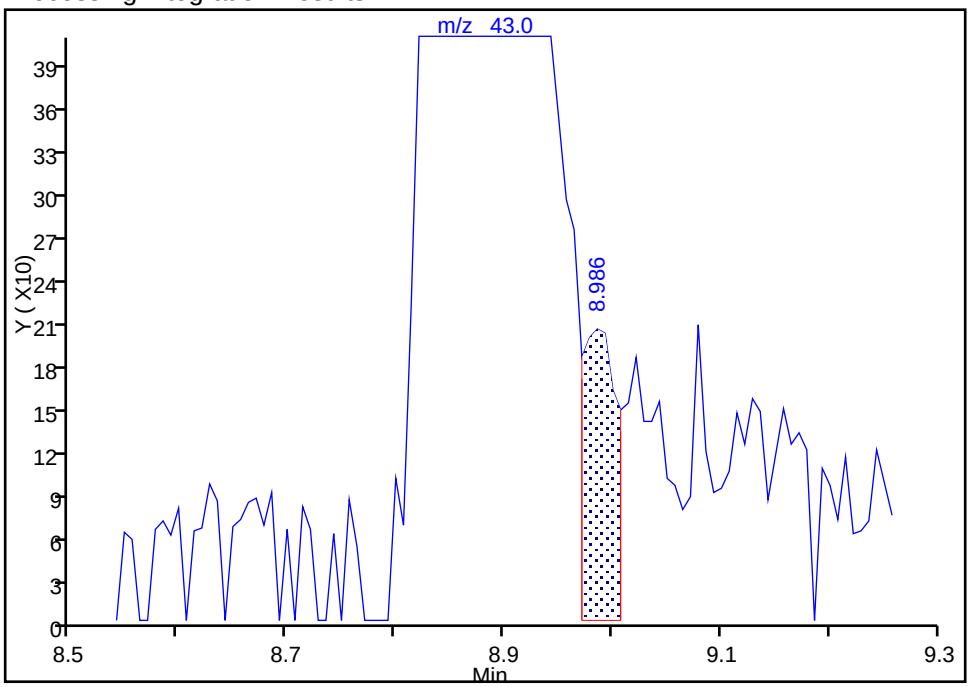
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42056.D
Injection Date: 06-Mar-2018 00:28:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

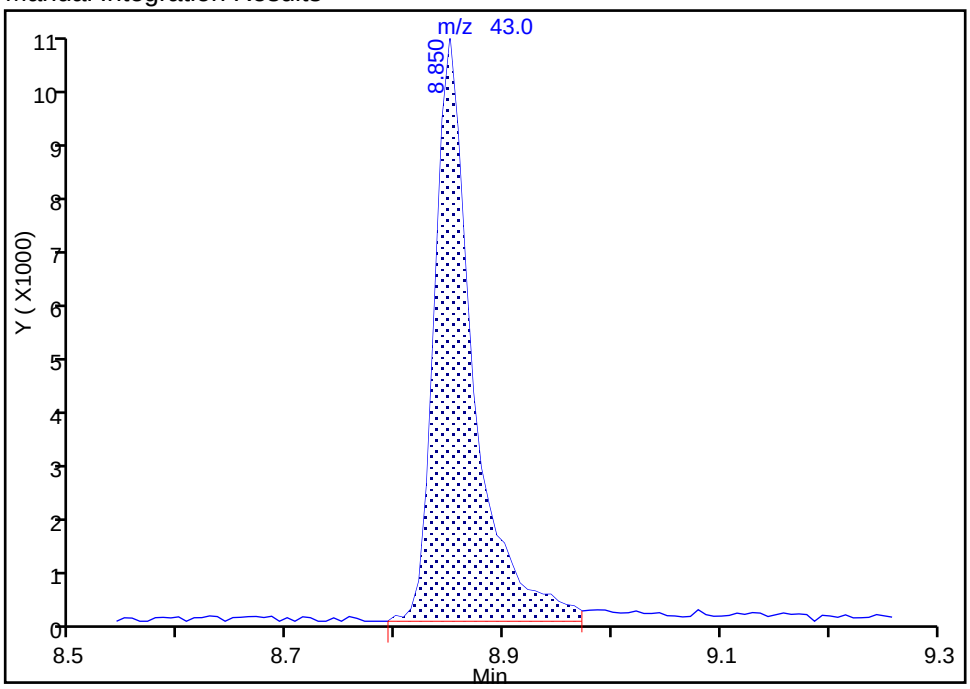
Processing Integration Results

RT: 8.99
Area: 473
Amount: 0.087718
Amount Units: ug/l



Manual Integration Results

RT: 8.85
Area: 26215
Amount: 3.584682
Amount Units: ug/l



Reviewer: boykink, 05-Mar-2018 23:53:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42057.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 06-Mar-2018 00:54:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0068378-007
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:21:28 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 06-Mar-2018 00:19:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	89	27252	20.0	20.8	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	98	90653	20.0	21.3	
4 Chloromethane	50	0.985	0.985	0.000	99	71079	20.0	18.7	a
5 Vinyl chloride	62	1.007	1.007	0.000	97	100493	20.0	20.8	
3 Butadiene	54	1.014	1.014	0.000	98	88650	20.0	20.5	
6 Bromomethane	94	1.171	1.171	0.000	98	31674	20.0	21.9	
7 Chloroethane	64	1.236	1.236	0.000	99	59235	20.0	19.4	
9 Pentane	72	1.300	1.300	0.000	97	26349	40.0	41.8	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	60	97792	20.0	21.0	
10 Dichlorofluoromethane	67	1.336	1.336	0.000	99	132690	20.0	20.9	
11 2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	96	107562	20.0	21.9	
12 Ethyl ether	59	1.465	1.465	0.000	92	69135	20.0	20.7	
13 Ethanol	46	1.544	1.544	0.000	99	18476	800.0	874.6	M
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	83	89095	20.0	20.8	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	99	67858	20.0	19.8	
16 Carbon disulfide	76	1.587	1.587	0.000	99	246745	20.0	19.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.594	1.594	0.000	98	66322	20.0	20.9	
18 Iodomethane	142	1.644	1.644	0.000	97	45835	20.0	12.5	
19 Cyclopentene	67	1.730	1.730	0.000	96	188787	20.0	20.8	
20 Acrolein	56	1.752	1.752	0.000	92	23310	40.0	39.2	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	45054	20.0	21.0	
22 Isopropyl alcohol	45	1.852	1.852	0.000	97	49432	200.0	195.5	
23 Methylene Chloride	84	1.888	1.888	0.000	94	81857	20.0	19.0	
24 Acetone	43	1.916	1.916	0.000	86	106533	100.0	100.0	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	75155	20.0	19.9	
26 Methyl acetate	43	1.988	1.988	0.000	100	294026	100.0	99.3	
27 Hexane	86	2.024	2.024	0.000	95	19056	20.0	20.7	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	96	223387	20.0	20.9	
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	331262	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	99	75131	200.0	191.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	99	109845	200.0	204.3	
32 Isopropyl ether	45	2.282	2.282	0.000	98	277430	20.0	20.8	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	90	69575	20.0	20.8	
34 1,1-Dichloroethane	63	2.353	2.353	0.000	100	136434	20.0	20.6	
35 Acrylonitrile	53	2.382	2.382	0.000	95	307811	200.0	205.4	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	88	245067	20.0	20.7	
37 Vinyl acetate	43	2.525	2.525	0.000	100	320632	40.0	39.4	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	97	83366	20.0	20.6	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	98	96599	20.0	20.2	
41 Chlorobromomethane	128	2.848	2.848	0.000	81	39213	20.0	20.9	
40 Cyclohexane	56	2.848	2.848	0.000	91	131401	20.0	20.5	
42 Chloroform	83	2.905	2.905	0.000	98	125232	20.0	20.8	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	81191	20.0	20.8	
44 Ethyl acetate	70	3.005	3.005	0.000	99	17194	40.0	36.8	
45 Methyl acrylate	55	3.012	3.012	0.000	97	70339	20.0	20.5	
46 Tetrahydrofuran	42	3.019	3.019	0.000	96	62997	40.0	39.9	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	162750	50.0	50.5	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	96	103444	20.0	21.1	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	331604	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	99	48604	100.0	98.0	
51 1,1-Dichloropropene	75	3.148	3.148	0.000	98	104535	20.0	19.2	
52 Isooctane	57	3.234	3.234	0.000	99	228278	20.0	20.2	
53 n-Heptane	57	3.327	3.327	0.000	94	58605	20.0	19.6	
54 Benzene	78	3.335	3.335	0.000	94	316794	20.0	20.7	
55 Propionitrile	54	3.356	3.356	0.000	95	111211	200.0	208.4	
56 Methacrylonitrile	67	3.378	3.378	0.000	92	340157	200.0	212.6	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	179229	50.0	49.1	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	228776	20.0	20.7	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	96	93097	20.0	19.3	
60 Isobutyl alcohol	43	3.571	3.571	0.000	95	77829	500.0	478.6	
61 t-Amyl alcohol	59	3.643	3.643	0.000	98	55863	200.0	202.5	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	396164	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	146338	20.0	20.5	
64 Methylcyclohexane	83	3.815	3.815	0.000	97	128812	20.0	20.7	
65 Trichloroethene	130	3.836	3.836	0.000	98	79881	20.0	20.7	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	93	185625	20.0	20.7	
67 Dibromomethane	93	4.209	4.209	0.000	97	46219	20.0	20.7	
68 n-Butanol	56	4.209	4.209	0.000	70	47048	500.0	523.5	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	93	82240	20.0	20.5	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	99437	20.0	21.4	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	90793	20.0	20.8	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	34347	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	93	42160	40.0	41.3	
74 1,4-Dioxane	88	4.588	4.588	0.000	98	17102	400.0	392.4	
75 n-Propyl acetate	43	4.731	4.731	0.000	99	110074	20.0	20.8	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	45724	20.0	20.9	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	92	124318	20.0	21.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	697093	50.0	49.9	
79 Toluene	91	5.283	5.283	0.000	93	343509	20.0	20.6	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	153504	400.0	443.0	
81 2-Nitropropane	41	5.541	5.541	0.000	97	29778	40.0	38.5	
82 Tetrachloroethene	166	5.713	5.713	0.000	98	79296	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	97	388256	100.0	106.2	
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	93	109046	20.0	21.6	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	57753	20.0	21.0	
86 Ethyl methacrylate	69	6.042	6.042	0.000	90	99946	20.0	21.7	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	69561	20.0	21.1	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	94	122422	20.0	21.0	
89 Ethylene Dibromide	107	6.415	6.415	0.000	99	67631	20.0	21.2	
90 n-Butyl acetate	43	6.751	6.751	0.000	99	114567	20.0	17.6	
91 2-Hexanone	43	6.816	6.816	0.000	97	273858	100.0	106.8	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	87	486942	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	219279	20.0	21.0	
94 Ethylbenzene	106	7.210	7.210	0.000	98	118388	20.0	20.9	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	96	67258	20.0	20.8	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	146082	20.0	21.0	
97 o-Xylene	106	8.019	8.019	0.000	94	140092	20.0	21.1	
98 Bromoform	173	8.084	8.084	0.000	95	40996	20.0	20.5	
99 Styrene	104	8.105	8.105	0.000	96	228801	20.0	21.7	
100 n-Butyl acrylate	73	8.428	8.428	0.000	97	53439	20.0	17.3	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	370616	20.0	21.3	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	90	129982	20.0	17.8	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	206487	50.0	50.6	
104 Bromobenzene	156	8.993	8.993	0.000	98	92076	20.0	20.6	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	437595	20.0	21.2	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	88561	20.0	20.1	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	295776	20.0	20.7	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	372423	20.0	21.2	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	26727	20.0	21.3	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	302153	20.0	21.1	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	88	23102	20.0	20.7	
112 4-Chlorotoluene	91	9.588	9.588	0.000	97	270884	20.0	20.9	
113 tert-Butylbenzene	119	9.960	9.960	0.000	95	256693	20.0	20.8	
114 Butyl Methacrylate	87	10.082	10.082	0.000	57	96460	20.0	20.6	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	312339	20.0	20.9	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	390064	20.0	21.1	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	96	173022	20.0	20.9	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	329700	20.0	21.1	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	288506	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	95	177943	20.0	20.0	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	322796	20.0	21.0	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	323654	20.0	21.0	
122 Benzyl chloride	126	11.128	11.128	0.000	97	21825	20.0	13.5	
123 p-Diethylbenzene	119	11.142	11.142	0.000	94	175566	20.0	21.2	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	295081	20.0	20.8	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	97	166728	20.0	21.0	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	301319	20.0	21.6	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	94	16415	20.0	21.6	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	121423	20.0	21.1	
129 1,2,4-Trichlorobenzene	180	13.084	13.084	0.000	94	110261	20.0	20.6	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	93	39471	20.0	20.2	
131 Naphthalene	128	13.377	13.377	0.000	100	258030	20.0	20.5	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	95	97840	20.0	21.0	
S 133 1,2-Dichloroethene, Total	100				0		40.0	40.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		20.0	42.6	
S 135 Xylenes, Total	100				0		40.0	42.1	
S 137 Total BTEX	1				0		100.0	104.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL		
GAS Hi_00243	Amount Added:	2.00	Units: uL		
MIX 2 Hi_00068	Amount Added:	2.00	Units: uL		
MIX I Hi_00087	Amount Added:	2.00	Units: uL		
Ethanol mix_00012	Amount Added:	2.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 07-Mar-2018 11:21:30 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42057.D

Injection Date: 06-Mar-2018 00:54:30 Instrument ID: CVOAMS13 Operator ID:

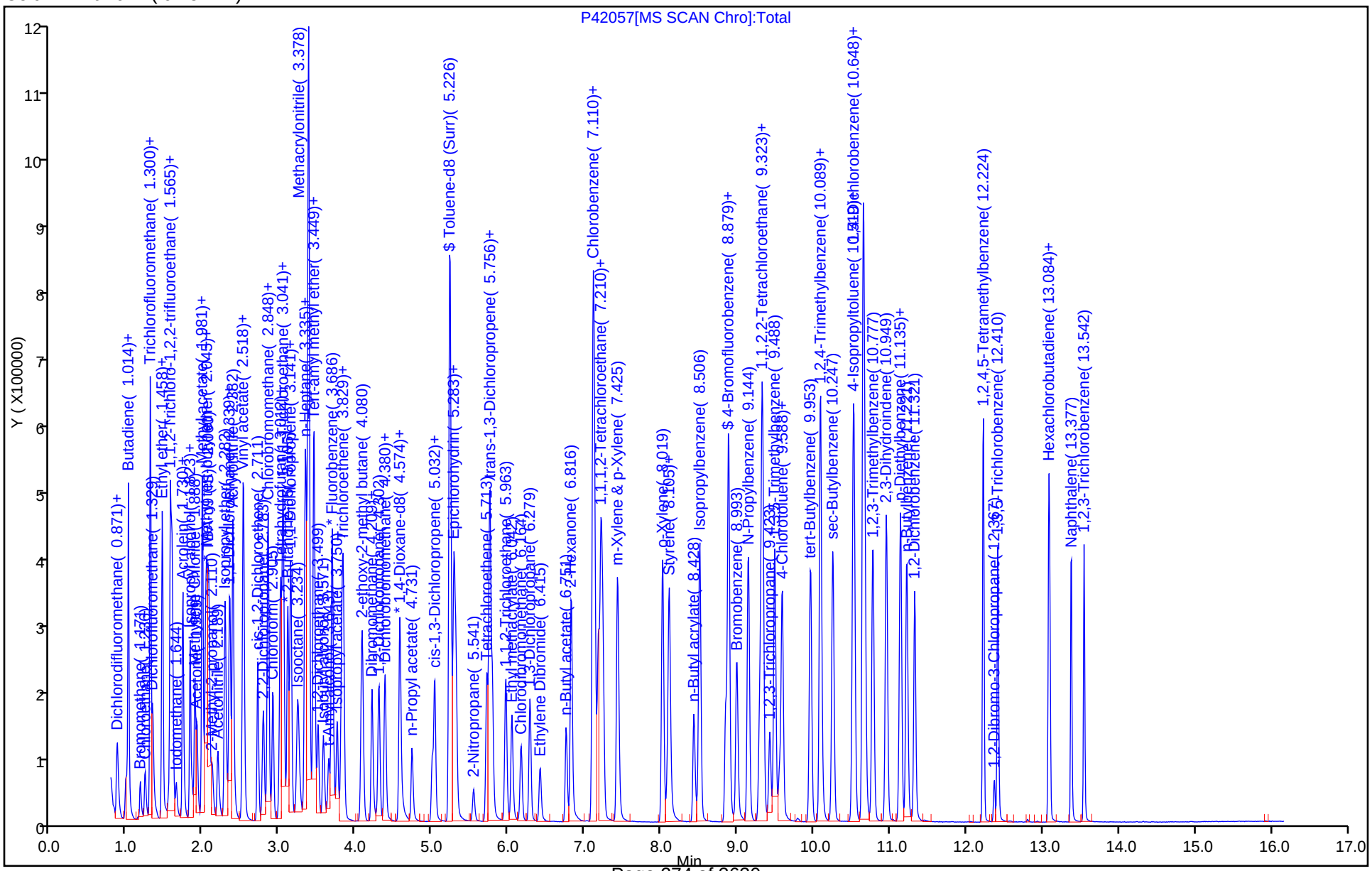
Lims ID: STD20 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

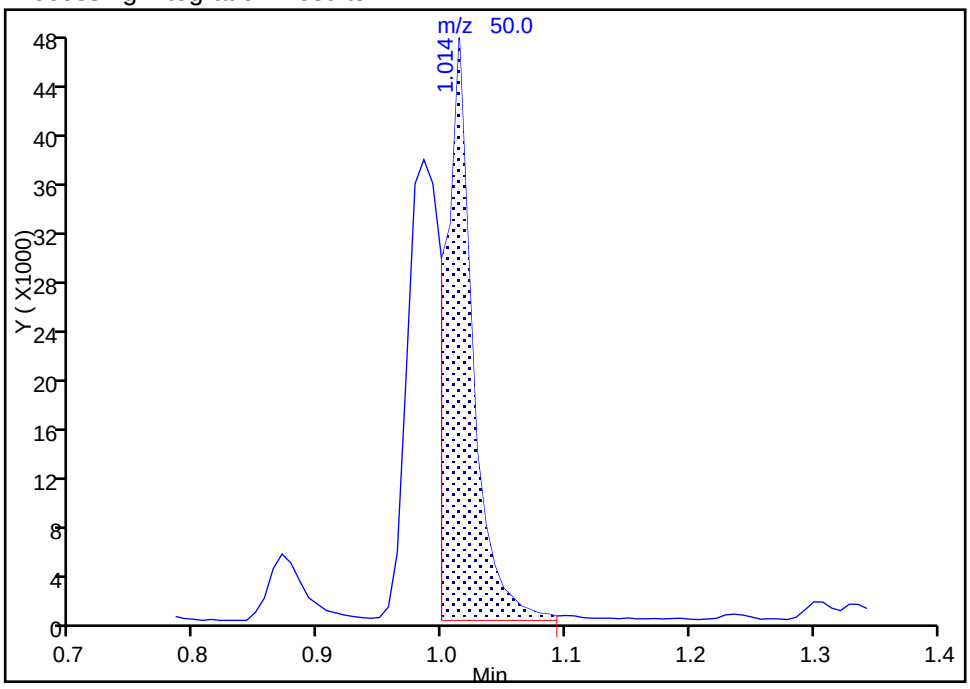
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42057.D
Injection Date: 06-Mar-2018 00:54:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

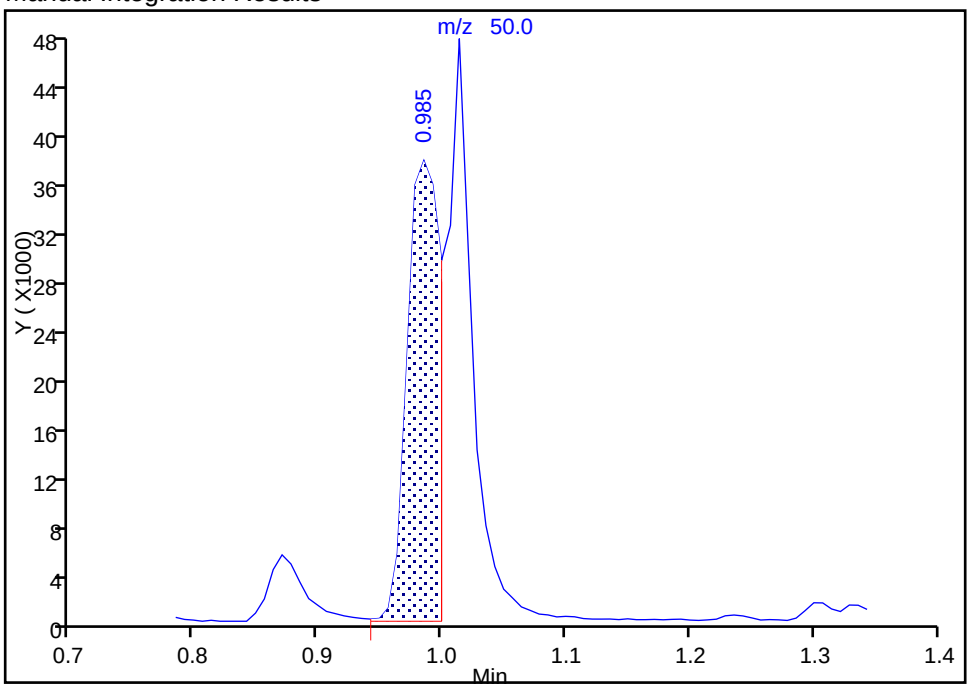
Processing Integration Results

RT: 1.01
Area: 74787
Amount: 18.888036
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 71079
Amount: 18.670022
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 00:15:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

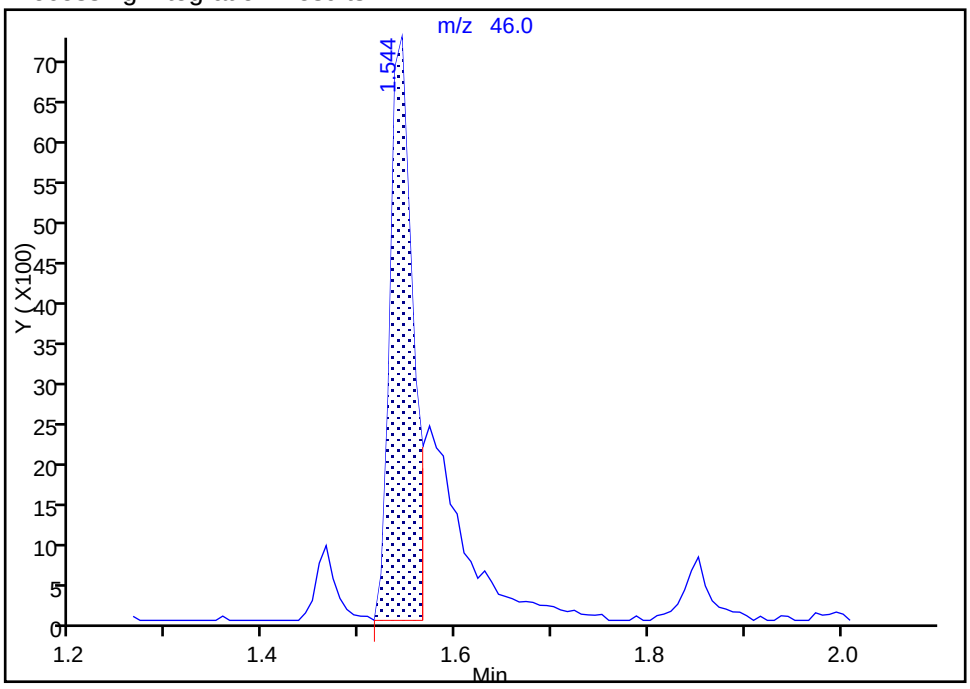
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42057.D
Injection Date: 06-Mar-2018 00:54:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Signal: 1

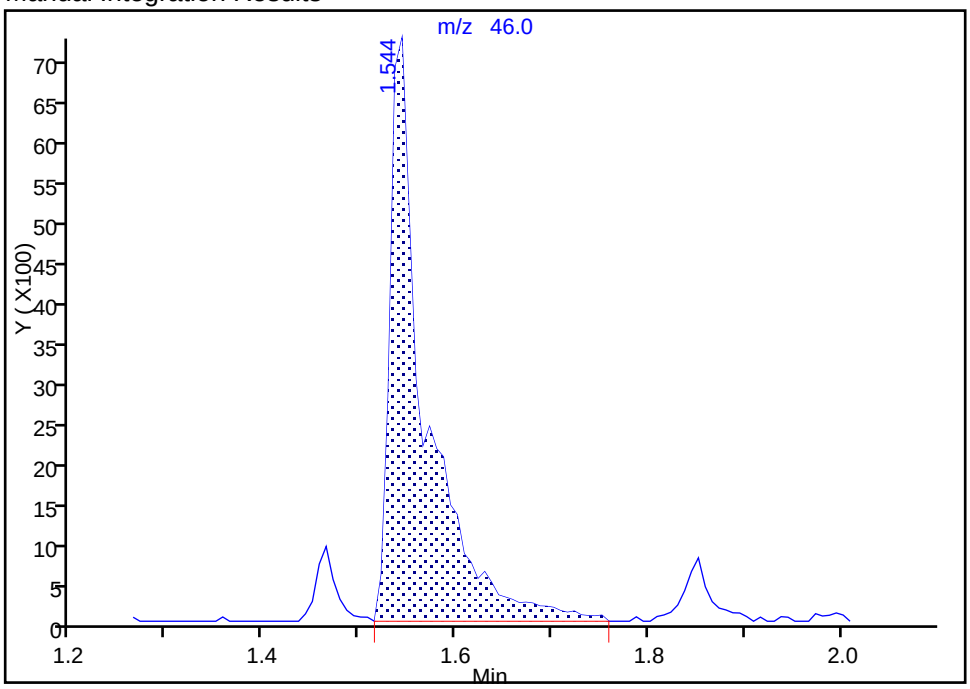
Processing Integration Results

RT: 1.54
Area: 11904
Amount: 648.6686
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 18476
Amount: 874.6427
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 09:05:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42058.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Mar-2018 01:19:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0068378-008
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:21:50 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 06-Mar-2018 00:52:53

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.856	0.863	-0.007	93	70400	50.0	52.6	
2	Dichlorodifluoromethane	85	0.871	0.871	0.000	99	214081	50.0	49.2	
4	Chloromethane	50	0.985	0.985	0.000	99	165089	50.0	42.4	
5	Vinyl chloride	62	1.007	1.007	0.000	98	229739	50.0	46.5	
3	Butadiene	54	1.014	1.014	0.000	98	204970	50.0	46.4	
6	Bromomethane	94	1.171	1.171	0.000	99	83713	50.0	57.3	
7	Chloroethane	64	1.229	1.236	-0.007	99	132427	50.0	42.3	
8	Trichlorofluoromethane	101	1.300	1.300	0.000	99	227057	50.0	47.6	
9	Pentane	72	1.308	1.300	0.008	97	66992	100.0	103.7	
10	Dichlorofluoromethane	67	1.336	1.336	0.000	99	305934	50.0	47.1	
11	2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	97	263647	50.0	52.6	
12	Ethyl ether	59	1.465	1.465	0.000	95	169822	50.0	49.6	
13	Ethanol	46	1.544	1.544	0.000	98	43278	2000.0	1997.5	M
14	1,1-Dichloroethene	96	1.565	1.565	0.000	99	166880	50.0	47.6	
15	1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	89	218619	50.0	50.0	
16	Carbon disulfide	76	1.587	1.587	0.000	99	602795	50.0	46.8	
17	1,1,2-Trichloro-1,2,2-trif	101	1.594	1.594	0.000	97	163984	50.0	50.5	
18	Iodomethane	142	1.644	1.644	0.000	97	152620	50.0	40.9	
19	Cyclopentene	67	1.730	1.730	0.000	97	459398	50.0	49.5	
20	Acrolein	56	1.744	1.752	-0.008	94	60420	100.0	99.0	
21	3-Chloro-1-propene	76	1.823	1.823	0.000	95	111946	50.0	51.0	
22	Isopropyl alcohol	45	1.852	1.852	0.000	98	122364	500.0	471.7	
23	Methylene Chloride	84	1.888	1.888	0.000	95	196615	50.0	44.6	
24	Acetone	43	1.916	1.916	0.000	87	262516	250.0	245.2	
25	trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	185452	50.0	48.1	
26	Methyl acetate	43	1.988	1.988	0.000	100	729971	250.0	241.0	
27	Hexane	86	2.031	2.024	0.007	95	47247	50.0	50.1	
28	Methyl tert-butyl ether	73	2.045	2.045	0.000	92	554758	50.0	50.8	
* 29	TBA-d9 (IS)	65	2.067	2.067	0.000	0	339762	1000.0	1000.0	
30	2-Methyl-2-propanol	59	2.117	2.117	0.000	99	186952	500.0	464.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	100	270547	500.0	490.5	
32 Isopropyl ether	45	2.282	2.282	0.000	98	684673	50.0	50.1	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	90	173920	50.0	50.9	
34 1,1-Dichloroethane	63	2.346	2.353	-0.007	100	335303	50.0	49.4	
35 Acrylonitrile	53	2.382	2.382	0.000	94	771809	500.0	503.5	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	89	611746	50.0	50.6	
37 Vinyl acetate	43	2.525	2.525	0.000	100	812303	100.0	97.7	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	99	201901	50.0	48.9	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	98	236386	50.0	48.2	
40 Cyclohexane	56	2.848	2.848	0.000	91	339741	50.0	51.8	
41 Chlorobromomethane	128	2.848	2.848	0.000	80	97613	50.0	50.8	
42 Chloroform	83	2.905	2.905	0.000	99	306045	50.0	49.7	
43 Carbon tetrachloride	117	3.005	2.998	0.007	99	201941	50.0	50.5	
44 Ethyl acetate	70	3.012	3.005	0.007	99	43924	100.0	93.2	
45 Methyl acrylate	55	3.012	3.012	0.000	99	182483	50.0	52.1	
46 Tetrahydrofuran	42	3.019	3.019	0.000	96	156175	100.0	97.8	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	160934	50.0	48.8	
48 1,1,1-Trichloroethane	97	3.055	3.048	0.007	99	256696	50.0	51.1	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	334882	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	100	121036	250.0	241.8	
51 1,1-Dichloropropene	75	3.148	3.148	0.000	99	255344	50.0	45.9	
52 Isooctane	57	3.234	3.234	0.000	99	566484	50.0	48.9	
53 n-Heptane	57	3.327	3.327	0.000	93	149458	50.0	48.7	
54 Benzene	78	3.342	3.335	0.007	93	781632	50.0	49.9	
55 Propionitrile	54	3.356	3.356	0.000	98	276170	500.0	504.5	
56 Methacrylonitrile	67	3.378	3.378	0.000	92	845482	500.0	516.5	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	182314	50.0	48.8	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	570458	50.0	50.4	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	96	228551	50.0	46.2	
60 Isobutyl alcohol	43	3.571	3.571	0.000	95	202001	1250.0	1211.2	
61 t-Amyl alcohol	59	3.643	3.643	0.000	98	138361	500.0	489.0	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	405274	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	369133	50.0	50.4	
64 Methylcyclohexane	83	3.815	3.815	0.000	96	324692	50.0	51.0	
65 Trichloroethene	130	3.836	3.836	0.000	99	194841	50.0	49.3	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	93	464445	50.0	50.6	
68 n-Butanol	56	4.209	4.209	0.000	88	125395	1250.0	1327.9	
67 Dibromomethane	93	4.201	4.209	-0.008	97	114946	50.0	50.4	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	93	204977	50.0	50.0	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	260409	50.0	54.8	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	231773	50.0	52.0	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	33952	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	92	110459	100.0	105.8	
74 1,4-Dioxane	88	4.603	4.588	0.014	94	42298	1000.0	981.8	
75 n-Propyl acetate	43	4.731	4.731	0.000	99	285061	50.0	52.6	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	119883	50.0	53.2	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	92	312728	50.0	51.8	
$ 78 Toluene-d8 (Surr)	98	5.233	5.226	0.007	99	705139	50.0	49.4	
79 Toluene	91	5.283	5.283	0.000	94	842328	50.0	49.4	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	390109	1000.0	1114.8	
81 2-Nitropropane	41	5.541	5.541	0.000	96	78586	100.0	99.4	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	194173	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	976984	250.0	264.5	
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	96	279757	50.0	54.3	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	97	147846	50.0	52.7	
86 Ethyl methacrylate	69	6.042	6.042	0.000	90	260842	50.0	55.4	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	178514	50.0	53.0	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	94	306370	50.0	51.5	
89 Ethylene Dibromide	107	6.408	6.415	-0.007	99	172800	50.0	53.1	
90 n-Butyl acetate	43	6.751	6.751	0.000	99	307444	50.0	46.4	
91 2-Hexanone	43	6.816	6.816	0.000	97	692166	250.0	267.4	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	89	496899	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	94	531938	50.0	49.8	
94 Ethylbenzene	106	7.210	7.210	0.000	98	294006	50.0	50.9	
95 1,1,1,2-Tetrachloroethane	131	7.239	7.238	0.000	96	168467	50.0	51.0	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	357395	50.0	50.3	
97 o-Xylene	106	8.019	8.019	0.000	94	348305	50.0	51.5	
98 Bromoform	173	8.084	8.084	0.000	95	106738	50.0	52.2	
99 Styrene	104	8.105	8.105	0.000	96	584322	50.0	54.4	
100 n-Butyl acrylate	73	8.428	8.428	0.000	97	148035	50.0	46.9	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	903933	50.0	51.0	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	90	354973	50.0	47.5	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	206927	50.0	49.7	
104 Bromobenzene	156	8.986	8.993	-0.007	99	226752	50.0	49.7	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	1069496	50.0	50.7	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	224448	50.0	50.0	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	724929	50.0	49.8	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	908201	50.0	50.6	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	99	65536	50.0	51.3	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	744553	50.0	51.0	
111 trans-1,4-Dichloro-2-buten	53	9.545	9.552	-0.007	90	58497	50.0	50.2	
112 4-Chlorotoluene	91	9.581	9.588	-0.007	98	661834	50.0	50.1	
113 tert-Butylbenzene	119	9.953	9.960	-0.007	95	629765	50.0	50.1	
114 Butyl Methacrylate	87	10.082	10.082	0.000	57	265148	50.0	54.1	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	772923	50.0	50.7	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	954167	50.0	50.6	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	96	428075	50.0	50.6	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	809411	50.0	50.7	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	294329	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	439281	50.0	48.3	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	795666	50.0	50.7	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	801688	50.0	51.1	
122 Benzyl chloride	126	11.121	11.128	-0.007	98	60796	50.0	36.7	
123 p-Diethylbenzene	119	11.135	11.142	-0.007	94	433647	50.0	51.4	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	730038	50.0	50.6	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	97	412648	50.0	51.0	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	97	756621	50.0	53.1	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	96	41955	50.0	54.1	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	296363	50.0	50.4	
129 1,2,4-Trichlorobenzene	180	13.076	13.084	-0.008	94	275760	50.0	50.5	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	94	99009	50.0	49.6	
131 Naphthalene	128	13.370	13.377	-0.007	100	646898	50.0	50.4	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	96	241312	50.0	50.7	
S 133 1,2-Dichloroethene, Total	100				0		100.0	97.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		50.0	106.0	
S 135 Xylenes, Total	100				0		100.0	101.8	
S 137 Total BTEX	1				0		250.0	252.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ACROLEIN W_00074	Amount Added:	10.00	Units: uL	
GAS Hi_00243	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	5.00	Units: uL	
MIX I Hi_00087	Amount Added:	5.00	Units: uL	
Ethanol mix_00012	Amount Added:	5.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Mar-2018 11:21:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42058.D

Injection Date: 06-Mar-2018 01:19:30 Instrument ID: CVOAMS13 Operator ID:

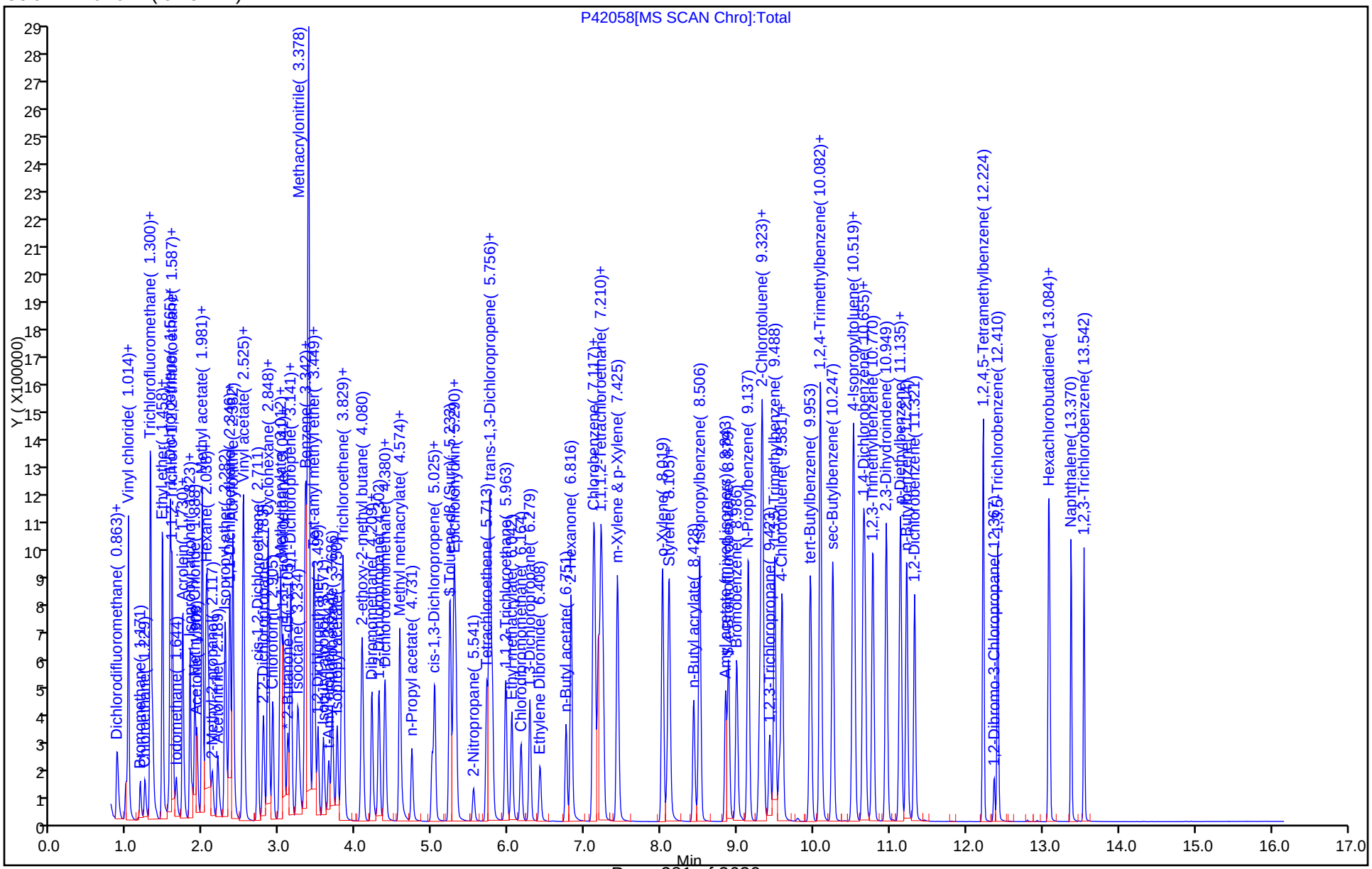
Lims ID: STD50 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

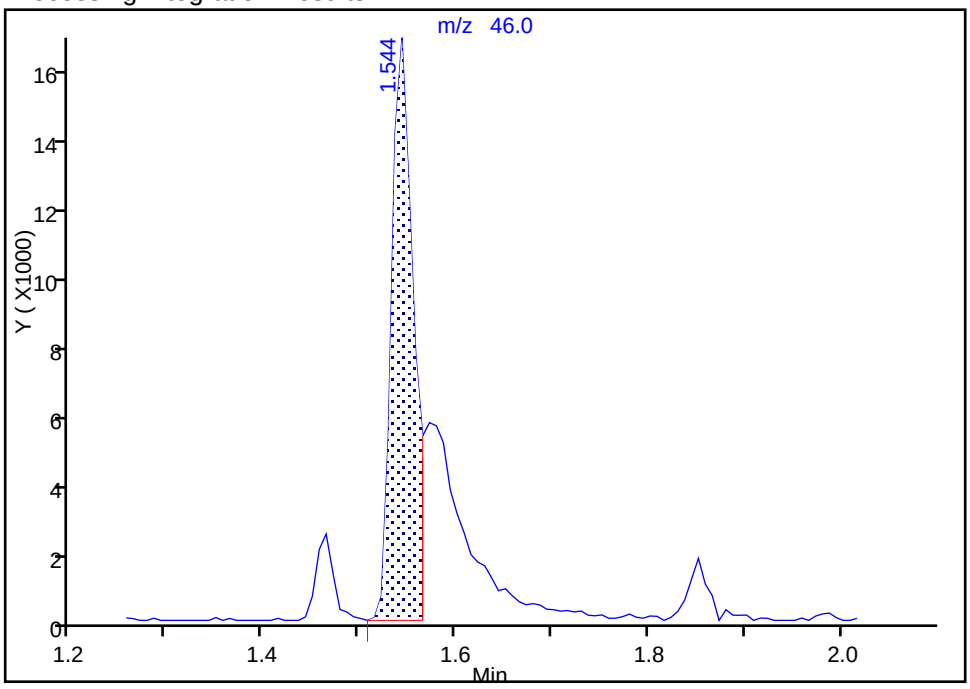
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42058.D
Injection Date: 06-Mar-2018 01:19:30 Instrument ID: CVOAMS13
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Signal: 1

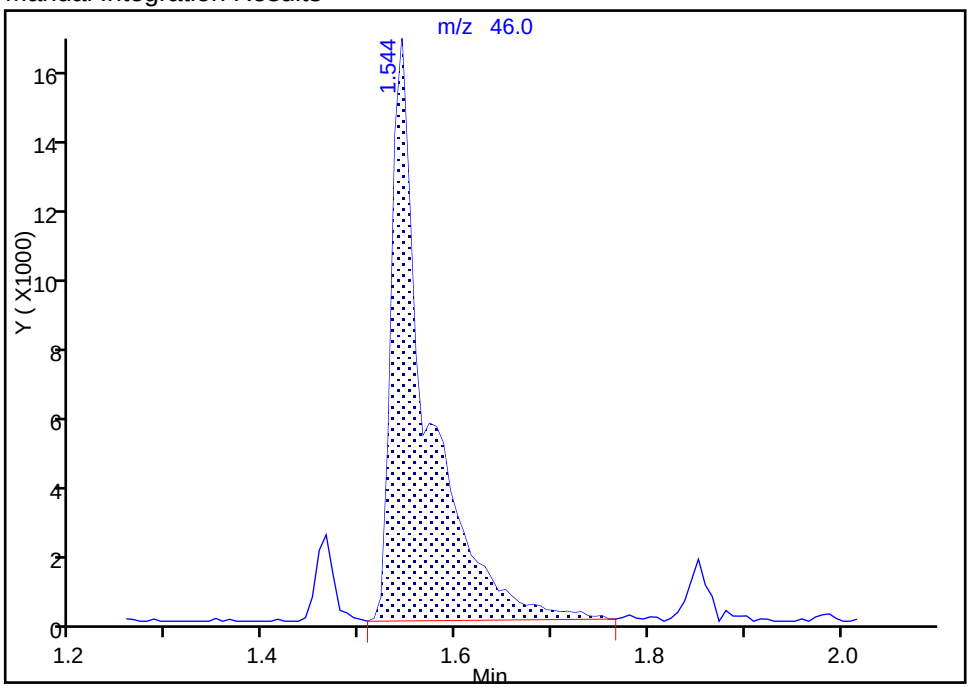
Processing Integration Results

RT: 1.54
Area: 26999
Amount: 1528.8623
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 43278
Amount: 1997.4998
Amount Units: ug/l



Reviewer: baronm, 07-Mar-2018 09:04:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42059.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Mar-2018 01:45:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0068378-009
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:22:10 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 06-Mar-2018 01:10:30

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.856	0.863	-0.007	92	311946	200.0	224.2	
2	Dichlorodifluoromethane	85	0.870	0.871	-0.001	99	973211	200.0	215.0	
4	Chloromethane	50	0.985	0.985	0.000	100	834394	200.0	205.9	
5	Vinyl chloride	62	1.007	1.007	0.000	99	1016750	200.0	197.7	
3	Butadiene	54	1.021	1.014	0.007	97	948874	200.0	206.3	
6	Bromomethane	94	1.171	1.171	0.000	99	469967	200.0	305.1	
7	Chloroethane	64	1.229	1.236	-0.007	99	556787	200.0	171.1	
9	Pentane	72	1.300	1.300	0.000	97	300114	400.0	441.9	
8	Trichlorofluoromethane	101	1.307	1.300	0.007	48	1056975	200.0	213.0	a
10	Dichlorofluoromethane	67	1.329	1.336	-0.007	99	1318981	200.0	195.2	
11	2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	97	1131697	200.0	216.9	
12	Ethyl ether	59	1.465	1.465	0.000	95	719648	200.0	202.0	
13	Ethanol	46	1.544	1.544	0.000	99	186616	8000.0	8196.9	
15	1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	88	894140	200.0	196.3	
14	1,1-Dichloroethene	96	1.565	1.565	0.000	99	731258	200.0	200.5	
16	Carbon disulfide	76	1.587	1.587	0.000	99	2673888	200.0	199.7	
17	1,1,2-Trichloro-1,2,2-trif	101	1.587	1.594	-0.007	95	707424	200.0	209.3	
18	Iodomethane	142	1.644	1.644	0.000	98	778409	200.0	205.0	
19	Cyclopentene	67	1.730	1.730	0.000	97	1947398	200.0	201.6	
20	Acrolein	56	1.751	1.752	-0.001	94	127189	200.0	198.3	
21	3-Chloro-1-propene	76	1.823	1.823	0.000	94	466064	200.0	203.9	
22	Isopropyl alcohol	45	1.852	1.852	0.000	98	513930	2000.0	1885.4	
23	Methylene Chloride	84	1.888	1.888	0.000	94	828564	200.0	180.7	
24	Acetone	43	1.916	1.916	0.000	87	1318571	1000.0	1137.7	
25	trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	788582	200.0	196.5	
26	Methyl acetate	43	1.988	1.988	0.000	100	3124872	1000.0	991.4	
27	Hexane	86	2.038	2.024	0.014	87	215605	200.0	219.8	
28	Methyl tert-butyl ether	73	2.045	2.045	0.000	94	2348036	200.0	206.8	
* 29	TBA-d9 (IS)	65	2.074	2.067	0.007	0	357020	1000.0	1000.0	
30	2-Methyl-2-propanol	59	2.117	2.117	0.000	99	794858	2000.0	1879.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.188	2.189	-0.001	99	1124307	2000.0	1939.8	
32 Isopropyl ether	45	2.289	2.282	0.007	98	2879166	200.0	202.4	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	92	744179	200.0	209.2	
34 1,1-Dichloroethane	63	2.353	2.353	0.000	100	1408832	200.0	199.5	
35 Acrylonitrile	53	2.389	2.382	0.007	95	3272449	2000.0	2051.6	
36 Tert-butyl ethyl ether	59	2.525	2.518	0.007	50	2575877	200.0	204.7	
37 Vinyl acetate	43	2.525	2.525	0.000	100	4078304	400.0	471.4	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	98	853925	200.0	198.6	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	98	1091325	200.0	213.9	
41 Chlorobromomethane	128	2.847	2.848	-0.001	67	397471	200.0	198.7	
40 Cyclohexane	56	2.847	2.848	-0.001	92	1468711	200.0	215.4	
42 Chloroform	83	2.905	2.905	0.000	99	1288856	200.0	201.1	
43 Carbon tetrachloride	117	3.005	2.998	0.007	99	890948	200.0	214.1	
44 Ethyl acetate	70	3.012	3.005	0.007	99	191646	400.0	385.6	
45 Methyl acrylate	55	3.012	3.012	0.000	99	792274	200.0	217.4	
46 Tetrahydrofuran	42	3.019	3.019	0.000	97	676519	400.0	401.9	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	168872	50.0	49.2	
48 1,1,1-Trichloroethane	97	3.055	3.048	0.007	99	1090825	200.0	208.8	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	353091	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	100	544877	1000.0	1032.2	
51 1,1-Dichloropropene	75	3.148	3.148	0.000	97	1096551	200.0	189.5	
52 Isooctane	57	3.241	3.234	0.007	99	2435585	200.0	202.1	
53 n-Heptane	57	3.335	3.327	0.007	92	679768	200.0	213.1	
54 Benzene	78	3.349	3.335	0.014	94	3352876	200.0	205.2	
55 Propionitrile	54	3.370	3.356	0.014	96	1205122	2000.0	2095.1	
56 Methacrylonitrile	67	3.385	3.378	0.007	92	3609496	2000.0	2119.2	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.449	3.442	0.007	0	192399	50.0	49.5	
58 Tert-amyl methyl ether	73	3.456	3.449	0.007	99	2441018	200.0	207.2	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	96	968324	200.0	188.1	
60 Isobutyl alcohol	43	3.578	3.571	0.007	95	947644	5000.0	5407.3	
61 t-Amyl alcohol	59	3.650	3.643	0.007	99	630209	2000.0	2119.6	
* 62 Fluorobenzene	96	3.693	3.686	0.007	99	421710	50.0	50.0	
63 Isopropyl acetate	43	3.757	3.750	0.007	99	1614579	200.0	212.1	
64 Methylcyclohexane	83	3.822	3.815	0.007	97	1424866	200.0	215.0	
65 Trichloroethene	130	3.836	3.836	0.000	99	833606	200.0	202.7	
66 2-ethoxy-2-methyl butane	59	4.079	4.080	-0.001	93	1977307	200.0	207.2	
67 Dibromomethane	93	4.201	4.209	-0.008	98	492678	200.0	207.6	
68 n-Butanol	56	4.208	4.209	-0.001	88	577646	5000.0	5341.7	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	92	889564	200.0	208.5	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	1145478	200.0	231.8	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	1007816	200.0	217.4	
* 72 1,4-Dioxane-d8	96	4.574	4.567	0.007	0	34304	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	91	487245	400.0	448.5	
74 1,4-Dioxane	88	4.595	4.588	0.007	95	176750	4000.0	4060.6	
75 n-Propyl acetate	43	4.731	4.731	0.000	99	1250259	200.0	221.8	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	487561	200.0	205.3	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	93	1404309	200.0	222.6	
$ 78 Toluene-d8 (Surr)	98	5.233	5.226	0.007	99	727100	50.0	48.8	
79 Toluene	91	5.290	5.283	0.007	94	3567535	200.0	200.3	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	1738655	4000.0	4712.1	
81 2-Nitropropane	41	5.541	5.541	0.000	97	376785	400.0	458.0	
82 Tetrachloroethene	166	5.720	5.713	0.007	98	829121	200.0	198.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	4220747	1000.0	1083.8	
84 trans-1,3-Dichloropropene	75	5.791	5.784	0.007	98	1269783	200.0	235.9	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	635642	200.0	217.0	
86 Ethyl methacrylate	69	6.042	6.042	0.000	90	1155484	200.0	235.7	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	804309	200.0	228.5	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	94	1322667	200.0	213.0	
89 Ethylene Dibromide	107	6.415	6.415	0.000	99	767441	200.0	226.0	
90 n-Butyl acetate	43	6.751	6.751	0.000	99	1388405	200.0	201.8	
91 2-Hexanone	43	6.823	6.816	0.007	96	3036830	1000.0	1112.7	
* 92 Chlorobenzene-d5	117	7.109	7.110	-0.001	85	518826	50.0	50.0	
93 Chlorobenzene	112	7.131	7.124	0.007	94	2260311	200.0	202.7	
94 Ethylbenzene	106	7.217	7.210	0.007	98	1258386	200.0	208.6	
95 1,1,1,2-Tetrachloroethane	131	7.246	7.238	0.008	97	751297	200.0	217.8	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	1544862	200.0	208.3	
97 o-Xylene	106	8.019	8.019	0.000	94	1475708	200.0	208.9	
98 Bromoform	173	8.084	8.084	0.000	96	513401	200.0	240.4	
99 Styrene	104	8.105	8.105	0.000	96	2540302	200.0	226.3	
100 n-Butyl acrylate	73	8.427	8.428	-0.001	97	672601	200.0	201.6	
101 Isopropylbenzene	105	8.506	8.506	0.000	96	3819286	200.0	206.2	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	90	1588721	200.0	201.3	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	89	214499	50.0	49.3	
104 Bromobenzene	156	8.993	8.993	0.000	99	963266	200.0	201.7	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	4556602	200.0	206.4	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	998324	200.0	212.6	
107 2-Chlorotoluene	91	9.316	9.316	0.000	97	3104456	200.0	203.5	
108 4-Ethyltoluene	105	9.337	9.330	0.007	99	3864538	200.0	205.8	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	99	282351	200.0	210.9	
110 1,3,5-Trimethylbenzene	105	9.495	9.488	0.007	94	3181001	200.0	208.0	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	86	277325	200.0	207.7	
112 4-Chlorotoluene	91	9.588	9.588	0.000	98	2868170	200.0	207.3	
113 tert-Butylbenzene	119	9.960	9.960	0.000	95	2678800	200.0	203.7	
114 Butyl Methacrylate	87	10.089	10.082	0.007	62	1240970	200.0	218.1	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	95	3332238	200.0	208.8	
116 sec-Butylbenzene	105	10.254	10.247	0.007	99	4053545	200.0	205.3	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	96	1847013	200.0	208.7	
118 4-Isopropyltoluene	119	10.533	10.526	0.007	98	3521904	200.0	210.5	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	308179	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.677	10.670	0.007	95	1872373	200.0	196.8	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	3386331	200.0	206.3	
121 2,3-Dihydroindene	117	10.956	10.949	0.007	95	3363408	200.0	204.6	
122 Benzyl chloride	126	11.121	11.128	-0.007	98	370503	200.0	205.7	
123 p-Diethylbenzene	119	11.142	11.142	0.000	94	1879550	200.0	212.6	
124 n-Butylbenzene	91	11.221	11.221	0.000	99	3152591	200.0	208.5	
125 1,2-Dichlorobenzene	146	11.328	11.321	0.007	97	1770003	200.0	209.0	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	3167766	200.0	212.3	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	96	195738	200.0	240.9	
128 1,3,5-Trichlorobenzene	180	12.417	12.410	0.007	98	1274561	200.0	207.1	
129 1,2,4-Trichlorobenzene	180	13.076	13.084	-0.008	94	1206192	200.0	210.9	
130 Hexachlorobutadiene	225	13.098	13.091	0.007	94	426977	200.0	204.4	
131 Naphthalene	128	13.370	13.377	-0.007	99	2808082	200.0	209.1	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	96	1044766	200.0	209.8	
S 133 1,2-Dichloroethene, Total	100				0		400.0	395.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		200.0	458.5	
S 135 Xylenes, Total	100				0		400.0	417.3	
S 137 Total BTEX	1				0		1000.0	1031.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00074	Amount Added:	20.00	Units: uL	
GAS Hi_00243	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	20.00	Units: uL	
MIX I Hi_00087	Amount Added:	20.00	Units: uL	
Ethanol mix_00012	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Mar-2018 11:22:13 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42059.D

Injection Date: 06-Mar-2018 01:45:30 Instrument ID: CVOAMS13 Operator ID:

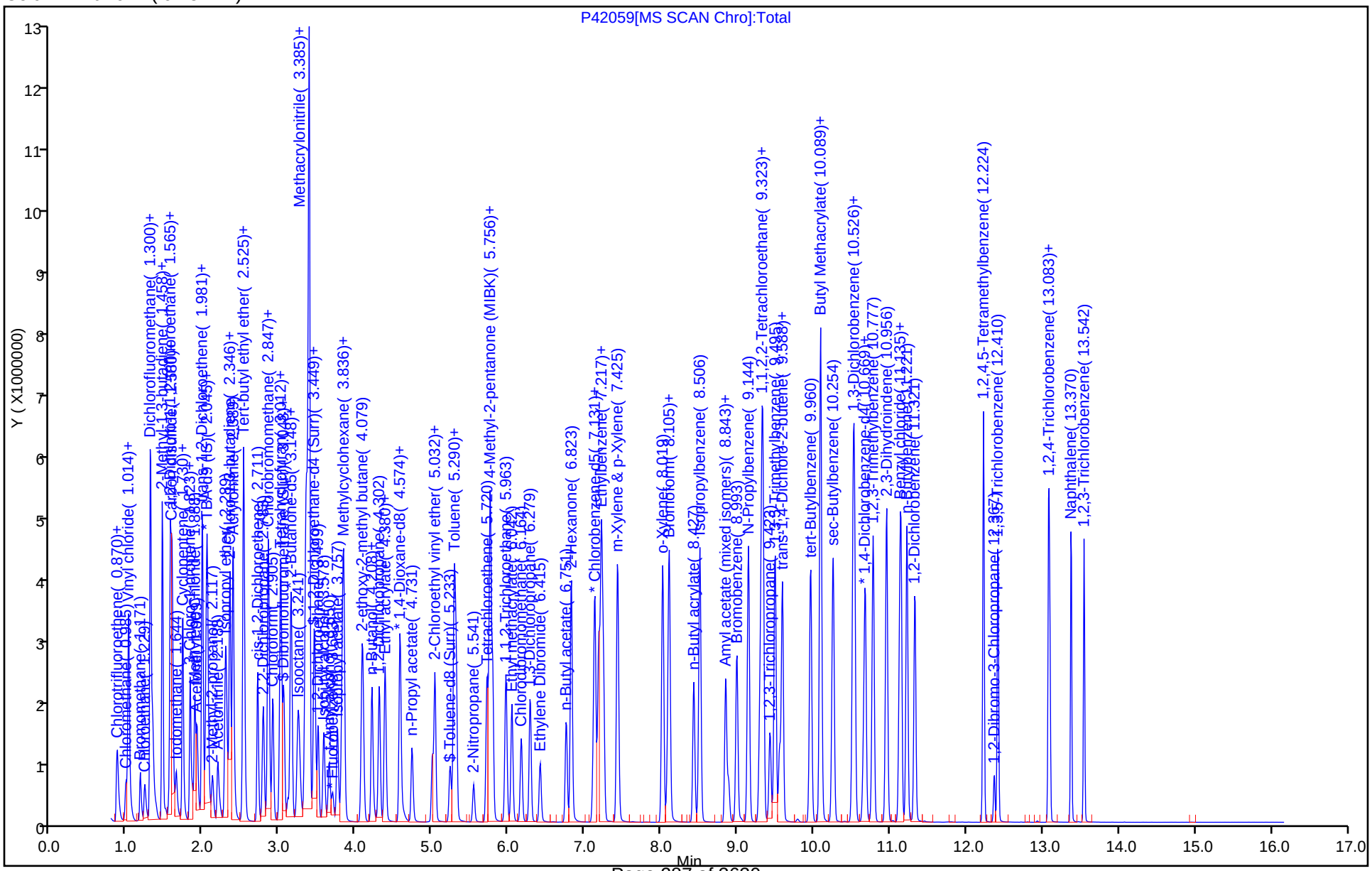
Lims ID: STD200 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

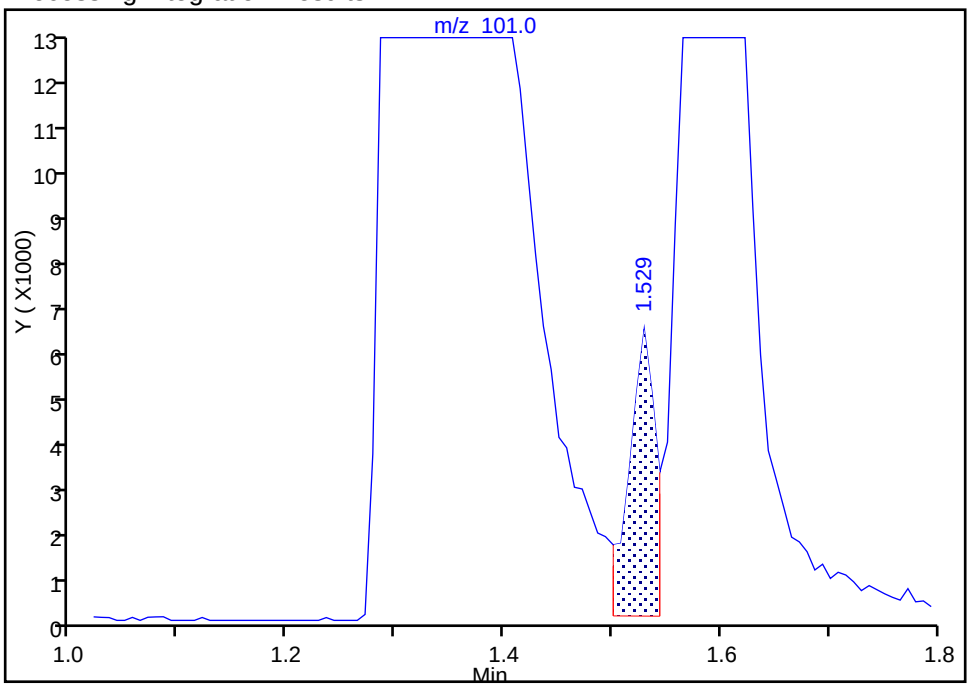
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42059.D
Injection Date: 06-Mar-2018 01:45:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

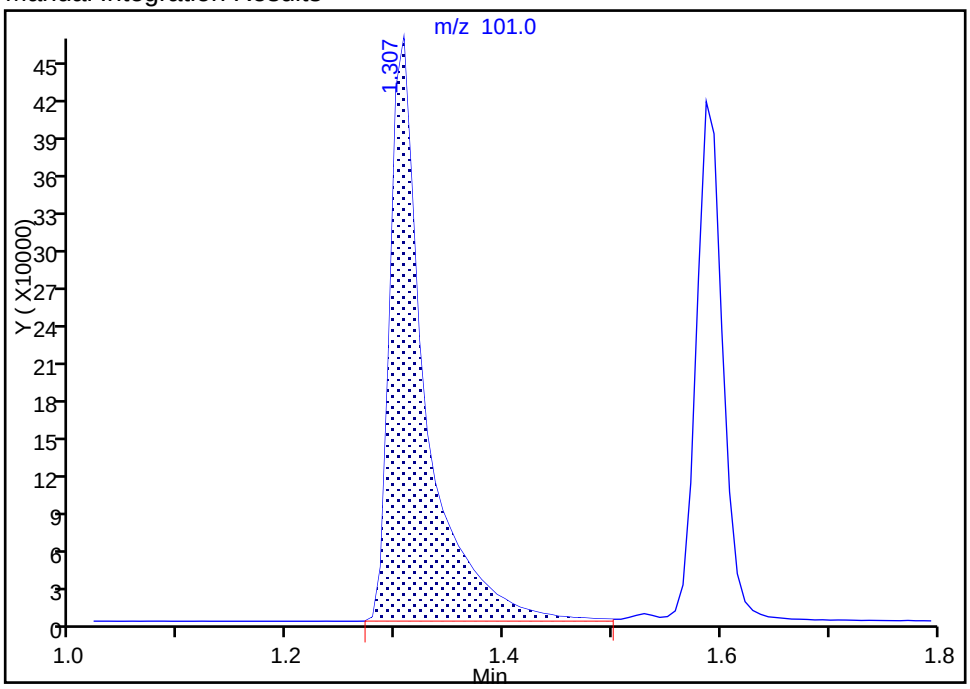
Processing Integration Results

RT: 1.53
Area: 10371
Amount: 1.696196
Amount Units: ug/l



Manual Integration Results

RT: 1.31
Area: 1056975
Amount: 212.9840
Amount Units: ug/l



Reviewer: boykink, 06-Mar-2018 01:09:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-Mar-2018 02:10:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0068378-010
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Mar-2018 11:22:31 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: boykink Date: 06-Mar-2018 02:49:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.863	-0.007	89	779209	500.0	541.5	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	100	2324714	500.0	496.7	
4 Chloromethane	50	0.985	0.985	0.000	99	2241736	500.0	534.9	
5 Vinyl chloride	62	1.007	1.007	0.000	98	2520518	500.0	473.9	
3 Butadiene	54	1.014	1.014	0.000	95	2275960	500.0	478.5	
6 Bromomethane	94	1.171	1.171	0.000	99	1089652	500.0	691.7	
7 Chloroethane	64	1.222	1.236	-0.014	100	817869	500.0	243.0	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	99	2353674	500.0	458.6	
9 Pentane	72	1.300	1.300	0.000	96	614991	1000.0	870.4	
10 Dichlorofluoromethane	67	1.329	1.336	-0.007	99	3062855	500.0	438.4	
11 2-Methyl-1,3-butadiene	67	1.451	1.458	-0.007	97	2651656	500.0	491.5	
12 Ethyl ether	59	1.465	1.465	0.000	95	1743288	500.0	473.1	
13 Ethanol	46	1.558	1.544	0.014	98	467970	20000	19756	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	99	1869535	500.0	495.8	
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	84	2313839	500.0	491.3	
16 Carbon disulfide	76	1.580	1.587	-0.007	100	6811171	500.0	491.9	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.594	-0.007	95	1731774	500.0	495.4	
18 Iodomethane	142	1.637	1.644	-0.007	97	1877275	500.0	499.2	
19 Cyclopentene	67	1.723	1.730	-0.007	97	4847027	500.0	485.3	
20 Acrolein	56	1.752	1.752	0.000	94	255032	400.0	382.2	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	95	1091599	500.0	461.7	
22 Isopropyl alcohol	45	1.866	1.852	0.014	98	1302424	5000.0	4592.4	
23 Methylene Chloride	84	1.888	1.888	0.000	94	2120883	500.0	447.4	
24 Acetone	43	1.916	1.916	0.000	87	2939350	2500.0	2379.1	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	2037997	500.0	491.2	
26 Methyl acetate	43	1.988	1.988	0.000	99	7862179	2500.0	2412.1	
27 Hexane	86	2.038	2.024	0.014	87	556685	500.0	548.8	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	90	5757269	500.0	490.4	
* 29 TBA-d9 (IS)	65	2.088	2.067	0.021	0	371465	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.131	2.117	0.014	99	2034174	5000.0	4623.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	99	2832674	5000.0	4697.3	
32 Isopropyl ether	45	2.296	2.282	0.014	98	7366313	500.0	500.8	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	92	1877008	500.0	510.2	
34 1,1-Dichloroethane	63	2.353	2.353	0.000	100	3531060	500.0	483.5	
35 Acrylonitrile	53	2.389	2.382	0.007	95	8100528	5000.0	4910.9	
36 Tert-butyl ethyl ether	59	2.532	2.518	0.014	89	6608323	500.0	507.8	
37 Vinyl acetate	43	2.525	2.525	0.000	100	10080448	1000.0	1126.6	
38 cis-1,2-Dichloroethene	96	2.712	2.711	0.001	97	2279942	500.0	512.8	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	97	2747016	500.0	520.6	
40 Cyclohexane	56	2.848	2.848	0.000	91	3666767	500.0	520.0	
41 Chlorobromomethane	128	2.848	2.848	0.000	84	991416	500.0	479.4	
42 Chloroform	83	2.912	2.905	0.007	99	3318842	500.0	500.7	
43 Carbon tetrachloride	117	3.005	2.998	0.007	99	2243726	500.0	521.4	
44 Ethyl acetate	70	3.012	3.005	0.007	100	491870	1000.0	967.7	
45 Methyl acrylate	55	3.020	3.012	0.008	99	2002816	500.0	531.4	
46 Tetrahydrofuran	42	3.020	3.019	0.001	96	1677603	1000.0	974.7	
$ 47 Dibromofluoromethane (Surr	113	3.048	3.041	0.007	96	171798	50.0	48.4	
48 1,1,1-Trichloroethane	97	3.055	3.048	0.007	99	2770106	500.0	512.8	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	361070	250.0	250.0	
50 2-Butanone (MEK)	72	3.148	3.141	0.007	100	1367108	2500.0	2532.7	
51 1,1-Dichloropropene	75	3.148	3.148	0.000	98	2776674	500.0	463.9	
52 Isooctane	57	3.249	3.234	0.015	99	6147451	500.0	493.2	
53 n-Heptane	57	3.342	3.327	0.015	91	1698821	500.0	514.9	
54 Benzene	78	3.349	3.335	0.014	96	8625973	500.0	509.6	
55 Propionitrile	54	3.392	3.356	0.036	96	2982580	5000.0	4983.6	
56 Methacrylonitrile	67	3.399	3.378	0.021	91	8702166	5000.0	4940.6	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.456	3.442	0.014	0	206378	50.0	51.3	
58 Tert-amyl methyl ether	73	3.464	3.449	0.015	99	6230310	500.0	511.3	
59 1,2-Dichloroethane	62	3.507	3.499	0.008	96	2412068	500.0	453.1	
60 Isobutyl alcohol	43	3.593	3.571	0.022	95	2462757	12500	13506	
61 t-Amyl alcohol	59	3.657	3.643	0.014	99	1647001	5000.0	5324.1	
* 62 Fluorobenzene	96	3.693	3.686	0.007	99	436097	50.0	50.0	
63 Isopropyl acetate	43	3.757	3.750	0.007	99	4066671	500.0	516.5	
64 Methylcyclohexane	83	3.829	3.815	0.014	96	3767582	500.0	549.7	
65 Trichloroethene	130	3.843	3.836	0.007	99	2127857	500.0	500.2	
66 2-ethoxy-2-methyl butane	59	4.087	4.080	0.007	93	5109152	500.0	517.7	
68 n-Butanol	56	4.223	4.209	0.014	87	1555786	12500	12173	
67 Dibromomethane	93	4.209	4.209	0.000	98	1254308	500.0	511.2	
69 1,2-Dichloropropane	63	4.309	4.302	0.007	93	2265910	500.0	513.7	
70 Ethyl acrylate	55	4.381	4.373	0.007	99	2946651	500.0	576.6	
71 Dichlorobromomethane	83	4.388	4.380	0.008	100	2585617	500.0	539.4	
* 72 1,4-Dioxane-d8	96	4.581	4.567	0.014	0	38263	1000.0	1000.0	
73 Methyl methacrylate	100	4.581	4.574	0.007	91	1227607	1000.0	1092.7	
74 1,4-Dioxane	88	4.603	4.588	0.015	94	456132	10000	9394.9	
75 n-Propyl acetate	43	4.739	4.731	0.008	99	3180402	500.0	545.7	
76 2-Chloroethyl vinyl ether	63	5.004	4.996	0.008	97	1227258	500.0	491.3	
77 cis-1,3-Dichloropropene	75	5.040	5.032	0.008	92	3619951	500.0	554.0	
$ 78 Toluene-d8 (Surr)	98	5.233	5.226	0.007	99	750254	50.0	48.6	
79 Toluene	91	5.290	5.283	0.007	94	9215018	500.0	499.6	
80 Epichlorohydrin	57	5.326	5.312	0.014	99	4416912	10000	11706	
81 2-Nitropropane	41	5.548	5.541	0.007	96	972129	1000.0	1142.7	
82 Tetrachloroethene	166	5.720	5.713	0.007	98	2144753	500.0	494.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.770	5.756	0.014	96	10629395	2500.0	2669.0	
84 trans-1,3-Dichloropropene	75	5.799	5.784	0.015	98	3350859	500.0	600.9	
85 1,1,2-Trichloroethane	83	5.971	5.963	0.008	96	1660424	500.0	547.2	
86 Ethyl methacrylate	69	6.049	6.042	0.007	90	2965586	500.0	585.0	
87 Chlorodibromomethane	129	6.171	6.164	0.007	98	2117825	500.0	580.9	
88 1,3-Dichloropropane	76	6.286	6.279	0.007	95	3412195	500.0	530.5	
89 Ethylene Dibromide	107	6.415	6.415	0.000	98	1972130	500.0	560.7	
90 n-Butyl acetate	43	6.759	6.751	0.008	99	3517021	500.0	499.7	
91 2-Hexanone	43	6.830	6.816	0.014	96	7663061	2500.0	2745.8	
* 92 Chlorobenzene-d5	117	7.117	7.110	0.007	88	537402	50.0	50.0	
93 Chlorobenzene	112	7.138	7.124	0.014	94	5830014	500.0	504.8	
94 Ethylbenzene	106	7.224	7.210	0.014	98	3310121	500.0	529.8	
95 1,1,1,2-Tetrachloroethane	131	7.253	7.238	0.015	97	1977599	500.0	553.5	
96 m-Xylene & p-Xylene	106	7.432	7.425	0.007	0	4002971	500.0	521.2	
97 o-Xylene	106	8.026	8.019	0.007	94	3845465	500.0	525.7	
98 Bromoform	173	8.091	8.084	0.007	95	1370816	500.0	619.6	
99 Styrene	104	8.112	8.105	0.007	96	6651650	500.0	572.1	
100 n-Butyl acrylate	73	8.435	8.428	0.007	97	1767411	500.0	499.8	
101 Isopropylbenzene	105	8.514	8.506	0.008	96	9879184	500.0	514.9	
102 Amyl acetate (mixed isomer	43	8.850	8.843	0.007	90	4144757	500.0	499.8	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	89	217549	50.0	48.3	
104 Bromobenzene	156	9.001	8.993	0.008	99	2499402	500.0	507.0	
105 N-Propylbenzene	91	9.151	9.144	0.007	99	11764173	500.0	516.3	
106 1,1,2,2-Tetrachloroethane	83	9.302	9.287	0.015	99	2601770	500.0	536.8	
107 2-Chlorotoluene	91	9.330	9.316	0.014	97	8124127	500.0	516.0	
108 4-Ethyltoluene	105	9.344	9.330	0.014	98	9923160	500.0	511.9	
109 1,2,3-Trichloropropane	110	9.438	9.423	0.015	99	720600	500.0	521.5	
110 1,3,5-Trimethylbenzene	105	9.502	9.488	0.014	93	8270477	500.0	524.0	
111 trans-1,4-Dichloro-2-buten	53	9.559	9.552	0.007	93	783987	500.0	493.6	
112 4-Chlorotoluene	91	9.602	9.588	0.014	98	7510303	500.0	525.8	
113 tert-Butylbenzene	119	9.968	9.960	0.008	95	6929660	500.0	510.5	
114 Butyl Methacrylate	87	10.097	10.082	0.015	62	3277760	500.0	483.5	
115 1,2,4-Trimethylbenzene	105	10.097	10.089	0.008	96	8529454	500.0	517.7	
116 sec-Butylbenzene	105	10.261	10.247	0.014	99	10448052	500.0	512.8	
117 1,3-Dichlorobenzene	146	10.526	10.512	0.014	95	4698187	500.0	514.4	
118 4-Isopropyltoluene	119	10.541	10.526	0.015	98	9012727	500.0	522.0	
* 119 1,4-Dichlorobenzene-d4	152	10.662	10.648	0.014	96	318082	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.684	10.670	0.014	95	4777077	500.0	486.4	
138 1,2,3-Trimethylbenzene	105	10.791	10.777	0.014	98	8616974	500.0	508.5	
121 2,3-Dihydroindene	117	10.963	10.949	0.014	95	8434179	500.0	497.0	
122 Benzyl chloride	126	11.128	11.128	0.000	99	987844	500.0	499.3	
123 p-Diethylbenzene	119	11.150	11.142	0.008	94	4767037	500.0	522.5	
124 n-Butylbenzene	91	11.228	11.221	0.007	99	8117942	500.0	520.1	
125 1,2-Dichlorobenzene	146	11.336	11.321	0.015	98	4487637	500.0	513.3	
126 1,2,4,5-Tetramethylbenzene	119	12.231	12.224	0.007	97	7883312	500.0	511.8	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	96	498853	500.0	594.8	
128 1,3,5-Trichlorobenzene	180	12.417	12.410	0.007	97	3166332	500.0	498.5	
129 1,2,4-Trichlorobenzene	180	13.084	13.084	0.000	94	3018811	500.0	511.5	
130 Hexachlorobutadiene	225	13.098	13.091	0.007	94	1033700	500.0	479.3	
131 Naphthalene	128	13.377	13.377	0.000	99	7091918	500.0	511.7	
132 1,2,3-Trichlorobenzene	180	13.549	13.542	0.007	96	2590377	500.0	504.1	
S 133 1,2-Dichloroethene, Total	100				0		1000.0	1003.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		500.0	1154.9	
S 135 Xylenes, Total	100				0		1000.0	1046.9	
S 137 Total BTEX	1				0		2500.0	2585.9	

Reagents:

MIX I Hi_00087	Amount Added:	50.00	Units: uL		
MIX 2 Hi_00068	Amount Added:	50.00	Units: uL		
GAS Hi_00243	Amount Added:	50.00	Units: uL		
ACROLEIN W_00074	Amount Added:	40.00	Units: uL		
Ethanol mix_00012	Amount Added:	50.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 07-Mar-2018 11:22:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Injection Date: 06-Mar-2018 02:10:30 Instrument ID: CVOAMS13 Operator ID:

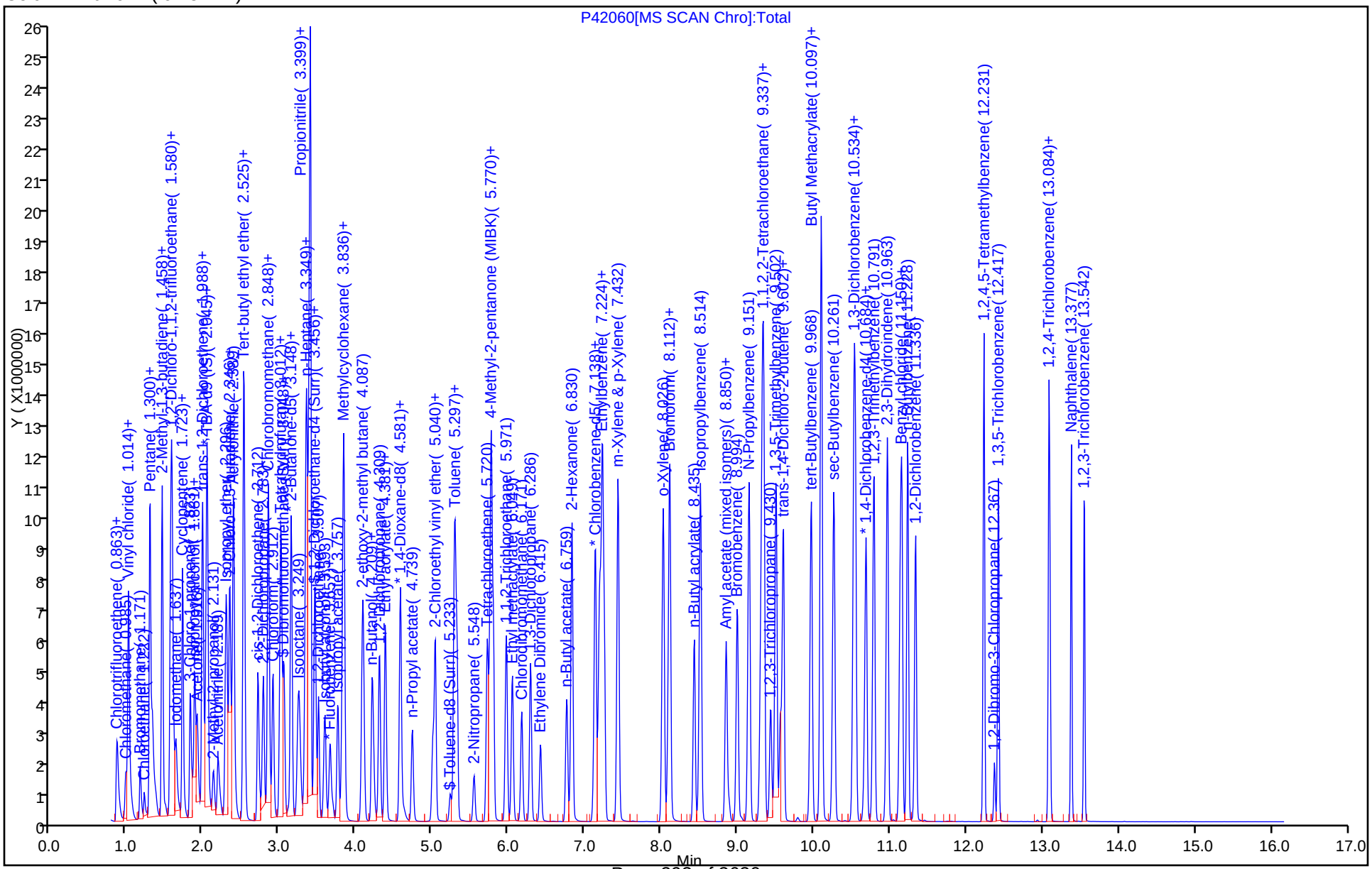
Lims ID: STD500 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-503116/2	T04570.D
Level 2	STD1 460-503116/13	T04581.D
Level 3	STD5 460-503116/5	T04573.D
Level 4	STD20 460-503116/6	T04574.D
Level 5	STD50 460-503116/7	T04575.D
Level 6	STD200 460-503116/8	T04576.D
Level 7	STD500 460-503116/9	T04577.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.0590	0.0412 0.0606	0.0255	0.0436	0.0552	QuaF		0.0571	0.0000071						1.0000		0.9900
Dichlorodifluoromethane	+++++ 0.3136	0.1657 0.2374	0.1794	0.2259	0.2707	QuaF		0.3500	-0.000224		0.1000				0.9980		0.9900
Chloromethane	+++++ 0.2541	0.2043 +++++	0.1935	0.2133	0.2259	Ave		0.2182			0.1000	10.7		20.0			
Vinyl chloride	+++++ 0.2202	0.1455 0.2353	0.1653	0.1791	0.2042	Ave		0.1916			0.1000	17.9		20.0			
Butadiene	+++++ 0.2160	0.1295 0.2008	0.1387	0.1615	0.1890	Lin	-0.050	0.2028							0.9990		0.9900
Bromomethane	+++++ 0.2383	0.1354 0.2480	0.1157	0.1302	0.1755	QuaF		0.2213	0.0000540		0.1000				0.9990		0.9900
Chloroethane	+++++ 0.4792	0.4491 +++++	0.5174	0.5491	0.5407	Ave		0.5071			0.1000	8.3		20.0			
Dichlorofluoromethane	+++++ 0.3327	0.2318 0.3136	0.2886	0.3201	0.3349	Ave		0.3036				12.8		20.0			
Trichlorofluoromethane	+++++ 0.4207	0.2265 0.3523	0.2733	0.3160	0.3632	QuaF		0.4501	-0.000194		0.1000				0.9990		0.9900
Pentane	+++++ 0.2248	0.1930 0.1978	0.2006	0.2697	0.2502	Ave		0.2227				14.1		20.0			
Ethanol	+++++ 0.3281	0.5568 0.2326	0.6701	0.6962	0.6913	Ave		0.5292				38.1	*	20.0			
Ethyl ether	+++++ 0.2399	0.2494 0.2153	0.2824	0.2992	0.2931	Ave		0.2632				12.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2226	0.1901 0.1816	0.2237	0.2517	0.2444	Ave		0.2190				12.9		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2764	0.2016 0.2216	0.2470	0.2900	0.2901	Ave		0.2545				14.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 8.7601	7.3309 6.7635	8.9611	9.3314	8.9720	Ave		8.3532				12.5		20.0			
1,1-Dichloroethene	+++++ 0.2501	0.2205 0.2349	0.2556	0.2860	0.2845	Ave		0.2552			0.1000	10.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2362	0.1921 0.1978	0.2205	0.2741	0.2681	Ave		0.2315			0.1000	15.0		20.0			
Acetone	+++++ 0.7421	0.7861 0.6969	0.6288	0.6042	0.6286	Ave		0.6811			0.0500	10.7		20.0			
Iodomethane	+++++ 0.2107	0.0960 0.1876	0.0472	0.1036	0.1637	QuaF		0.2150	-0.000054						0.9980		0.9900
Carbon disulfide	+++++ 0.6620	0.6303 0.6549	0.5462	0.6586	0.7193	Ave		0.6452			0.1000	8.8		20.0			
Isopropyl alcohol	+++++ 3.9507	4.5040 3.1152	3.6956	4.0289	4.1588	Ave		3.9089				12.0		20.0			
Acetonitrile	+++++ 0.1558	0.1508 0.1637	0.1700	0.1809	0.1783	Ave		0.1666				7.2		20.0			
Allyl chloride	+++++ 0.1701	0.1375 0.1636	0.1601	0.2013	0.1980	Ave		0.1717				14.1		20.0			
Methyl acetate	+++++ 0.2627	0.2250 0.2345	0.2786	0.2966	0.2909	Ave		0.2647			0.1000	11.2		20.0			
Cyclopentene	+++++ 0.6683	0.5285 0.5762	0.6146	0.7009	0.7164	Ave		0.6341				11.7		20.0			
Methylene Chloride	+++++ 0.2943	0.3067 0.2835	0.3144	0.3295	0.3277	Ave		0.3094			0.1000	5.9		20.0			
2-Methyl-2-propanol	+++++ 6.4518	6.0443 5.3345	6.1982	6.5604	6.6928	Ave		6.2137				7.9		20.0			
Acrylonitrile	0.1299 0.1191	0.1203 0.0969	0.1429	0.1503	0.1454	Ave		0.1293				14.6		20.0			
trans-1,2-Dichloroethene	+++++ 0.2412	0.2745 0.2038	0.2888	0.3131	0.3105	Ave		0.2720			0.1000	15.7		20.0			
Methyl tert-butyl ether	+++++ 0.7064	0.6043 0.6307	0.7431	0.8054	0.8112	Ave		0.7169			0.1000	12.1		20.0			
Hexane	+++++ 0.4270	0.3412 0.3741	0.3945	0.5181	0.5001	Ave		0.4258				16.6		20.0			
1,1-Dichloroethane	+++++ 0.5677	0.4876 0.5634	0.5774	0.6131	0.6171	Ave		0.5711			0.2000	8.2		20.0			
Vinyl acetate	+++++ 0.2366	0.2104 0.2738	0.3095	0.3613	0.3306	Ave		0.2870				20.0		20.0			
Isopropyl ether	+++++ 1.0470	0.9361 0.8633	1.1416	1.2318	1.2101	Ave		1.0716				14.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.2558	0.2197 0.1996	0.2632	0.2979	0.2971	Ave		0.2555				15.7		20.0			
Tert-butyl ethyl ether	+++++ 1.0329	0.8003 0.9854	0.9756	1.0766	1.0908	Ave		0.9936				10.6		20.0			
2,2-Dichloropropane	+++++ 0.0897	0.0668 0.0821	0.0876	0.0977	0.1003	Ave		0.0874				13.8		20.0			
cis-1,2-Dichloroethene	+++++ 0.3025	0.3031 0.2777	0.3336	0.3582	0.3562	Ave		0.3219			0.1000	10.1		20.0			
2-Butanone (MEK)	+++++ 0.9925	0.9025 0.9755	0.9623	1.0023	1.0057	Ave		0.9735			0.0500	4.0		20.0			
Propionitrile	+++++ 8.4110	8.7444 +++++	9.7314	9.9688	9.8423	Ave		9.3396				7.6		20.0			
Ethyl acetate	+++++ 0.1754	0.1288 0.1755	0.1801	0.1901	0.1973	Ave		0.1745				13.8		20.0			
Methyl acrylate	+++++ 0.3841	0.3012 0.4241	0.3480	0.3833	0.3849	Ave		0.3709				11.3		20.0			
Methacrylonitrile	+++++ 0.0976	0.1102 +++++	0.1327	0.1404	0.1323	Ave		0.1226				14.7		20.0			
Chlorobromomethane	+++++ 0.1083	0.1256 0.1076	0.1400	0.1506	0.1439	Ave		0.1293				14.3		20.0			
Tetrahydrofuran	+++++ 0.2162	0.1935 0.2297	0.2223	0.2436	0.2414	Ave		0.2244				8.2		20.0			
Chloroform	+++++ 0.4601	0.4008 0.4689	0.4633	0.5039	0.5084	Ave		0.4676			0.2000	8.3		20.0			
1,1,1-Trichloroethane	+++++ 0.3946	0.3108 0.4038	0.3651	0.4144	0.4233	Ave		0.3853			0.1000	10.8		20.0			
Cyclohexane	+++++ 0.3747	0.3239 0.3297	0.3744	0.4459	0.4388	Ave		0.3812			0.1000	13.6		20.0			
Carbon tetrachloride	+++++ 0.3154	0.2069 0.3166	0.2450	0.2999	0.3236	Ave		0.2846			0.1000	16.7		20.0			
1,1-Dichloropropene	+++++ 0.3362	0.3143 0.2886	0.3693	0.3984	0.3993	Ave		0.3510				13.0		20.0			
Isobutyl alcohol	+++++ 2.8300	1.9624 1.9856	2.3272	2.8465	2.9958	Ave		2.4912				18.5		20.0			
Benzene	+++++ 1.0843	1.3020 +++++	1.3661	1.4358	1.3918	Ave		1.3160			0.5000	10.5		20.0			
1,2-Dichloroethane	+++++ 0.3791	0.4013 0.3761	0.3958	0.4168	0.4174	Ave		0.3977			0.1000	4.5		20.0			
2,2,4-Trimethylpentane	+++++ 1.0860	0.8044 0.9249	0.9533	1.1908	1.1518	Ave		1.0185				14.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropyl acetate	+++++ 0.1288	0.0877 0.1129	0.1261	0.1432	0.1423	Ave		0.1235				16.9		20.0			
Tert-amyl methyl ether	+++++ 0.7665	0.6056 0.7012	0.7293	0.8215	0.8354	Ave		0.7432				11.4		20.0			
n-Heptane	+++++ 0.4431	0.3638 0.4100	0.3954	0.5098	0.4940	Ave		0.4360				13.1		20.0			
n-Butanol	+++++ 1.7981	1.2184 1.3313	1.3160	1.6878	1.8397	Ave		1.5319				17.9		20.0			
Trichloroethene	+++++ 0.2852	0.2661 0.2624	0.2934	0.3149	0.3256	Ave		0.2913			0.2000	8.7		20.0			
Ethyl acrylate	+++++ 0.5210	0.2979 +++++	0.3924	0.4711	0.4930	Lin2	-0.198	0.4857							0.9950		0.9900
Methylcyclohexane	+++++ 0.4408	0.3550 0.3923	0.4169	0.5254	0.5126	Ave		0.4405			0.1000	15.3		20.0			
1,2-Dichloropropane	+++++ 0.3164	0.2737 0.3012	0.3367	0.3591	0.3587	Ave		0.3243			0.1000	10.4		20.0			
Dibromomethane	+++++ 0.1697	0.1665 0.1510	0.1626	0.1856	0.1845	Ave		0.1700				7.8		20.0			
Methyl methacrylate	+++++ 0.0799	0.0543 0.0757	0.0727	0.0805	0.0841	Ave		0.0745				14.3		20.0			
1,4-Dioxane	+++++ 0.8744	0.7810 0.8425	0.8220	0.9879	0.9730	Ave		0.8801				9.5		20.0			
n-Propyl acetate	+++++ 0.5676	0.3709 0.5855	0.4930	0.5559	0.5684	Ave		0.5236				15.5		20.0			
Dichlorobromomethane	+++++ 0.3352	0.2104 0.3612	0.2567	0.3047	0.3327	Ave		0.3002			0.2000	18.8		20.0			
2-Nitropropane	+++++ 0.0898	0.0353 0.1001	0.0504	0.0679	0.0770	Qua2	-0.071	0.0686	0.0000350						0.9920		0.9900
2-Chloroethyl vinyl ether	+++++ 0.2475	0.1685 0.2631	0.2096	0.2449	0.2491	Ave		0.2304				15.3		20.0			
Epichlorohydrin	0.1544 0.1975	0.1538 0.1981	0.2068	0.2362	0.2419	Ave		0.1984				17.6		20.0			
cis-1,3-Dichloropropene	+++++ 0.4864	0.4173 0.4495	0.4609	0.5436	0.5548	Ave		0.4854			0.2000	11.2		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 1.8321	1.2929 1.8043	1.6942	1.9668	2.0420	Ave		1.7720			0.0500	15.0		20.0			
Toluene	+++++ 1.2329	1.3675 1.0597	1.4193	1.5125	1.4961	Ave		1.3480			0.4000	12.9		20.0			
trans-1,3-Dichloropropene	+++++ 0.4410	0.3591 0.4273	0.3652	0.4507	0.4804	Ave		0.4206			0.1000	11.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	+++++ 0.3855	0.2700 0.3707	0.3398	0.4169	0.4247	Ave		0.3679				15.5		20.0			
1,1,2-Trichloroethane	+++++ 0.2276	0.2125 0.2131	0.2381	0.2637	0.2614	Ave		0.2361			0.1000	9.6		20.0			
Tetrachloroethene	+++++ 0.3485	0.3581 0.3115	0.3791	0.4076	0.4067	Ave		0.3686			0.2000	10.0		20.0			
1,3-Dichloropropane	+++++ 0.4735	0.4592 0.4365	0.5139	0.5539	0.5409	Ave		0.4963				9.5		20.0			
2-Hexanone	+++++ 1.3823	0.8989 1.3894	1.1468	1.3396	1.4120	Ave		1.2615			0.0500	16.0		20.0			
Chlorodibromomethane	+++++ 0.2983	0.1869 0.3137	0.1991	0.2549	0.2844	Qua2	-0.076	0.2547	0.0001358		0.1000				0.9920		0.9900
n-Butyl acetate	+++++ 0.6376	0.4773 0.5930	0.5535	0.6535	0.6657	Ave		0.5968				12.0		20.0			
Ethylene Dibromide	+++++ 0.2930	0.2848 0.2751	0.2933	0.3297	0.3309	Ave		0.3011			0.1000	7.8		20.0			
Chlorobenzene	+++++ 0.8541	0.8609 0.7687	0.9127	0.9885	0.9884	Ave		0.8956			0.5000	9.5		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3045	0.2084 0.2962	0.2444	0.2980	0.3176	Ave		0.2782				15.2		20.0			
Ethylbenzene	+++++ 0.4532	0.4494 0.3951	0.4965	0.5389	0.5361	Ave		0.4782			0.1000	11.7		20.0			
m-Xylene & p-Xylene	+++++ 0.5444	0.5581 0.4860	0.5918	0.6515	0.6447	Ave		0.5794			0.1000	10.9		20.0			
o-Xylene	+++++ 0.5245	0.5166 0.4634	0.5663	0.6264	0.6228	Ave		0.5533			0.3000	11.6		20.0			
Styrene	+++++ 0.8574	0.7675 0.7276	0.8873	1.0089	1.0179	Ave		0.8778			0.3000	13.7		20.0			
n-Butyl acrylate	+++++ 0.2391	0.1453 0.2252	0.1889	0.2425	0.2489	Lin2	-0.094	0.2350							0.9950		0.9900
Bromoform	+++++ 0.2048	0.0978 0.2241	0.1223	0.1529	0.1800	Qua2	-0.066	0.1585	0.0001472		0.1000				0.9920		0.9900
Amyl acetate (mixed isomers)	+++++ 1.3702	0.7944 1.3275	1.0438	1.3466	1.3942	Lin2	-0.572	1.3345							0.9950		0.9900
Isopropylbenzene	+++++ 1.3581	1.3319 1.1797	1.4865	1.6210	1.5997	Ave		1.4295			0.1000	11.9		20.0			
Bromobenzene	+++++ 0.6898	0.6479 0.6773	0.7010	0.7594	0.7677	Ave		0.7072				6.7		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6595	0.5082 0.6390	0.6366	0.7286	0.7225	Ave		0.6491			0.3000	12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.2190	0.1624 0.2195	0.2084	0.2263	0.2334	Ave		0.2115				12.0		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2381	0.1693 0.2516	0.1739	0.2154	0.2351	Ave		0.2139				16.3		20.0			
N-Propylbenzene	+++++ 3.0083	2.8545 2.6857	3.2811	3.5846	3.5947	Ave		3.1681				12.0		20.0			
2-Chlorotoluene	+++++ 1.7696	1.7581 1.6118	1.9015	2.0717	2.0348	Ave		1.8579				9.5		20.0			
4-Ethyltoluene	+++++ 2.6812	2.2881 2.3630	2.6501	2.9489	2.9477	Ave		2.6465				10.6		20.0			
4-Chlorotoluene	+++++ 1.7189	1.7303 1.5059	1.8345	2.0270	2.0043	Ave		1.8035				10.9		20.0			
1,3,5-Trimethylbenzene	+++++ 2.0582	1.8945 1.8097	2.1486	2.3900	2.3947	Ave		2.1159				11.6		20.0			
Butyl Methacrylate	+++++ 0.7719	0.3750 0.7281	0.5323	0.7410	0.7913	Lin2	-0.387	0.7391							0.9910		0.9900
tert-Butylbenzene	+++++ 1.8389	1.6821 1.6846	1.9223	2.1147	2.1033	Ave		1.8910				10.2		20.0			
1,2,4-Trimethylbenzene	+++++ 2.1424	1.9018 1.9197	2.2077	2.4549	2.4644	Ave		2.1818				11.3		20.0			
sec-Butylbenzene	+++++ 2.7040	2.4907 2.3542	2.8531	3.1842	3.1759	Ave		2.7937				12.3		20.0			
1,3-Dichlorobenzene	+++++ 1.2365	1.2462 1.1278	1.2805	1.4058	1.4090	Ave		1.2843			0.6000	8.4		20.0			
1,4-Dichlorobenzene	+++++ 1.1283	1.3262 0.9402	1.2773	1.3934	1.3883	Ave		1.2423			0.5000	14.3		20.0			
4-Isopropyltoluene	+++++ 2.0981	2.0812 1.7204	2.3670	2.6149	2.6099	Ave		2.2486				15.5		20.0			
1,2,3-Trimethylbenzene	+++++ 2.1996	1.9143 1.8940	2.1831	2.4328	2.4346	Ave		2.1764				10.9		20.0			
Benzyl chloride	+++++ 1.2516	0.6575 1.2314	0.7972	1.0534	1.1875	Qua2	-0.449	1.0713	0.0004181						0.9900		0.9900
Indan	+++++ 2.0914	1.7768 1.7744	2.1544	2.3698	2.3738	Ave		2.0901				12.8		20.0			
1,2-Dichlorobenzene	+++++ 1.1407	1.1220 1.0190	1.1849	1.3048	1.2916	Ave		1.1772			0.4000	9.2		20.0			
p-Diethylbenzene	+++++ 1.2426	1.0807 1.0533	1.2207	1.4060	1.4178	Ave		1.2369				12.5		20.0			
n-Butylbenzene	+++++ 1.1042	1.1298 0.9065	1.2324	1.3721	1.3602	Ave		1.1842				14.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1205	0.0560 0.1260	0.0771	0.0983	0.1098	Qua2	-0.047	0.1002	0.0000598		0.0500				0.9940		0.9900
1,2,4,5-Tetramethylbenzene	+++++ 2.0256	1.6034 1.6763	1.8568	2.2140	2.2958	Ave		1.9453				14.5		20.0			
1,3,5-Trichlorobenzene	+++++ 0.8764	0.8632 0.7323	0.8507	0.9541	0.9761	Ave		0.8754				9.9		20.0			
1,2,4-Trichlorobenzene	+++++ 0.7480	0.7484 0.6394	0.7088	0.8349	0.8567	Ave		0.7560			0.2000	10.6		20.0			
Hexachlorobutadiene	+++++ 0.3212	0.3360 0.2848	0.3044	0.3537	0.3720	Ave		0.3287				9.7		20.0			
Naphthalene	+++++ 1.8790	1.5362 1.5919	1.7773	2.1071	2.1562	Ave		1.8413				14.0		20.0			
1,2,3-Trichlorobenzene	+++++ 0.6573	0.6618 0.5724	0.6483	0.7426	0.7565	Ave		0.6731				10.1		20.0			
Dibromofluoromethane (Surr)	0.2552 0.2562	0.2385 0.2490	0.2525	0.2532	0.2546	Ave		0.2513				2.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2969 0.2902	0.2734 0.2752	0.2947	0.2862	0.2871	Ave		0.2863				3.1		20.0			
Toluene-d8 (Surr)	1.1569 1.1247	1.1732 1.1203	1.1796	1.1707	1.1655	Ave		1.1558				2.1		20.0			
4-Bromofluorobenzene	0.3808 0.3710	0.3820 0.3755	0.3772	0.3713	0.3706	Ave		0.3755				1.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-503116/2	T04570.D
Level 2	STD1 460-503116/13	T04581.D
Level 3	STD5 460-503116/5	T04573.D
Level 4	STD20 460-503116/6	T04574.D
Level 5	STD50 460-503116/7	T04575.D
Level 6	STD200 460-503116/8	T04576.D
Level 7	STD500 460-503116/9	T04577.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	QuaF	+++++ 115634	476 298083	1239	8469	27002	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	QuaF	+++++ 614765	1915 1167451	8731	43890	132294	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 498144	2361 +++++	9416	41436	110426	+++++ 200	1.00 +++++	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 431603	1682 1156801	8043	34791	99797	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Lin	+++++ 423456	1497 987269	6748	31385	92388	+++++ 200	1.00 500	5.00	20.0	50.0
Bromomethane	BUT	QuaF	+++++ 87131	268 205952	1033	4660	15511	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	BUT	Ave	+++++ 175240	889 +++++	4620	19650	47802	+++++ 200	1.00 +++++	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 652256	2679 1542200	14042	62178	163682	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	QuaF	+++++ 824638	2618 1732389	13298	61396	177533	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	BUT	Ave	+++++ 164406	764 328541	3583	19305	44230	+++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd9	Ave	+++++ 167256	1352 395892	7690	32150	81433	+++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	+++++ 470264	2882 1058746	13741	58124	143268	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 436321	2197 892813	10885	48898	119430	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 541795	2330 1089855	12019	56339	141785	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 111658	1780 230281	10284	21546	52846	+++++ 200	4.00 400	20.0	40.0	100

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	+++++ 490320	2548 1154855	12439	55555	139022	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 462948	2220 972825	10730	53256	131055	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 1356910	7781 2893630	28072	108114	277836	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	QuaF	+++++ 413098	1110 922704	2299	20123	79989	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1297734	7285 3220179	26576	127948	351549	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 503559	2734 1325825	10603	46513	122480	+++++ 2000	10.0 5000	50.0	200	500
Acetonitrile	BUT	Ave	+++++ 569656	2985 1359822	15182	64732	157613	+++++ 2000	10.0 5000	50.0	200	500
Allyl chloride	FB	Ave	+++++ 333356	1589 804334	7792	39101	96761	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 2575072	13002 5764476	67769	288067	710959	+++++ 1000	5.00 2500	25.0	100	250
Cyclopentene	FB	Ave	+++++ 1310157	6108 2833134	29904	136159	350135	+++++ 200	1.00 500	5.00	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 576951	3545 1393999	15298	64010	160163	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 822358	3669 2270344	17783	75739	197106	+++++ 2000	10.0 5000	50.0	200	500
Acrylonitrile	FB	Ave	2546 2335449	13902 4762519	69527	292050	710756	2.00 2000	10.0 5000	50.0	200	500
trans-1,2-Dichloroethene	FB	Ave	+++++ 472809	3172 1002152	14053	60831	151738	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	+++++ 1384858	6984 3101460	36155	156476	396476	+++++ 200	1.00 500	5.00	20.0	50.0
Hexane	FB	Ave	+++++ 837038	3943 1839408	19195	100652	244400	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1112836	5636 2770518	28093	119117	301607	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	+++++ 173064	833 454783	5527	25857	58445	+++++ 400	2.00 1000	10.0	40.0	100
Isopropyl ether	FB	Ave	+++++ 2052387	10819 4245000	55546	239306	591435	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 501443	2539 981238	12805	57879	145207	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 2024775	9249 4845542	47470	209164	533108	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 175901	772 403515	4264	18989	49011	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 592973	3503 1365569	16233	69596	174079	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 1814727	8933 4050443	42958	179343	444523	+++++ 1000	5.00 2500	25.0	100	250
Propionitrile	TBAd9	Ave	+++++ 1072086	5308 +++++	27920	115088	289862	+++++ 2000	10.0 +++++	50.0	200	500
Ethyl acetate	BUT	Ave	+++++ 128298	510 291517	3216	13603	34875	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 752965	3481 2085578	16935	74463	188106	+++++ 200	1.00 500	5.00	20.0	50.0
Methacrylonitrile	FB	Ave	+++++ 1913449	12734 +++++	64564	272820	646752	+++++ 2000	10.0 +++++	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 212332	1452 528899	6812	29250	70325	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 158111	766 381473	3969	17432	42675	+++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	+++++ 901889	4632 2305642	22543	97900	248478	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 773553	3592 1985362	17765	80503	206905	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 734500	3743 1621027	18216	86632	214441	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 618252	2391 1556705	11919	58256	158177	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 659101	3633 1419021	17967	77394	195177	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 901797	2978 2112623	16692	82157	220568	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZd5	Ave	+++++ 1964019	11751 +++++	56353	239293	595722	+++++ 200	1.00 +++++	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 743081	4638 1849225	19260	80975	203988	+++++ 200	1.00 500	5.00	20.0	50.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 2128922	9297 4548122	46383	231344	562945	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 252569	1014 555058	6135	27817	69546	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 1502631	6999 3447937	35485	159593	408309	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 868557	4205 2016105	19240	99039	241418	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd9	Ave	+++++ 572986	1849 1416441	9439	48713	135448	+++++ 5000	25.0 12500	125	500	1250
Trichloroethene	FB	Ave	+++++ 559027	3075 1290498	14275	61181	159109	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Lin2	+++++ 1021372	3443 +++++	19091	91530	240953	+++++ 200	1.00 +++++	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 864165	4103 1929202	20286	102065	250516	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 620147	3163 1480945	16381	69764	175314	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 332573	1924 742563	7911	36062	90179	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 313382	1256 744279	7071	31269	82167	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 145370	1746 368642	3383	15629	38877	+++++ 4000	50.0 10000	100	400	1000
n-Propyl acetate	FB	Ave	+++++ 1112722	4287 2879139	23988	107999	277805	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	+++++ 657051	2432 1776074	12490	59203	162618	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Qua2	+++++ 352195	816 984362	4901	26376	75271	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 485208	1948 1293486	10197	47575	121742	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	1311 1444199	6088 3289880	36935	169033	427685	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 881061	3766 2198355	19011	90591	237467	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 3349756	12797 7491925	75633	351907	902579	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZd5	Ave	+++++ 2233206	12342 5182881	58546	252081	640354	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 798863	3241 2089553	15064	75115	205601	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 698260	2437 1813221	14018	69479	181761	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 412227	1918 1042182	9821	43952	111878	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	+++++ 631239	3232 1523537	15637	67924	174077	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 857659	4144 2134719	21199	92316	231517	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Hexanone	BUT	Ave	+++++ 2527450	8897 5768832	51195	239691	624127	+++++ 1000	5.00 2500	25.0	100	250
Chlorodibromomethane	CBNZ d5	Qua2	+++++ 540285	1687 1534065	8213	42486	121722	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 1154914	4308 2900099	22833	108909	284954	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZ d5	Ave	+++++ 530763	2570 1345230	12099	54946	141648	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1547029	7770 3759428	37652	164750	423049	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 551527	1881 1448620	10082	49669	135952	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 820865	4056 1932117	20480	89816	229450	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 986178	5037 2377055	24414	108585	275928	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 950113	4662 2266490	23360	104393	266578	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 1552969	6927 3558260	36603	168147	435664	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Lin2	+++++ 433084	1311 1101569	7791	40410	106529	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Qua2	+++++ 370910	883 1095996	5043	25482	77045	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Lin2	+++++ 1325729	3889 3331957	23315	121120	321851	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 2460057	12021 5769750	61320	270163	684694	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 667402	3172 1699871	15658	68307	177216	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 638098	2488 1603710	14220	65534	166792	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 211891	795 551043	4656	20354	53880	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 230380	829 631537	3884	19371	54272	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2910544	13975 6740693	73291	322425	829845	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1712073	8607 4045526	42474	186342	469749	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 2594081	11202 5930904	59195	265242	680487	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 1663068	8471 3779535	40977	182324	462713	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1991330	9275 4542062	47994	214975	552828	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Lin2	+++++ 746813	1836 1827433	11890	66648	182670	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1779170	8235 4228178	42938	190210	485566	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2072812	9311 4818166	49315	220808	568923	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2616131	12194 5908672	63731	286411	733171	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1196304	6101 2830767	28604	126447	325282	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1091635	6493 2359791	28532	125334	320504	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 2029968	10189 4317982	52872	235201	602516	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 2128127	9372 4753653	48765	218819	562050	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Qua2	+++++ 1210904	3219 3090570	17807	94752	274135	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 2023418	8699 4453607	48123	213159	548014	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1103652	5493 2557590	26468	117362	298164	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 1202230	5291 2643698	27268	126464	327295	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 1068301	5531 2275109	27529	123418	314001	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Qua2	+++++ 116554	274 316258	1722	8838	25359	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 1959836	7850 4207391	41475	199143	529994	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 847924	4226 1837863	19002	85815	225331	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 723651	3664 1604842	15832	75099	197773	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 310766	1645 714853	6799	31814	85872	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 1817995	7521 3995384	39700	189529	497768	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503116

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2018 09:07 Calibration End Date: 03/13/2018 14:00 Calibration ID: 66946

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 635906	3240 1436751	14482	66793	174639	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	125068 125546	137842 122458	122856	122962	124455	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	145474 142222	158016 135347	143412	138999	140332	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	481671 509315	529438 547926	486583	487776	498841	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	158565 168016	172371 183658	155605	154697	158625	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 13-Mar-2018 09:07:19 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:26:32 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 13-Mar-2018 12:04:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	66	2.150	2.155	-0.005	98	54351	1000.0	1000.0	
29 Acrylonitrile	53	2.286	2.286	0.000	87	2546	2.00	2.01	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	99	424663	250.0	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	125068	50.0	50.8	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.770	3.775	-0.005	85	145474	50.0	51.9	
* 61 Fluorobenzene	96	4.101	4.100	0.001	99	490038	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.824	4.829	-0.005	33	38835	1000.0	1000.0	
76 Epichlorohydrin	57	5.459	5.458	0.000	31	1311	5.00	3.89	
$ 79 Toluene-d8 (Surr)	98	5.873	5.878	-0.005	99	481671	50.0	50.0	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	416359	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	158565	50.0	50.7	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.509	-0.005	95	228399	50.0	50.0	

Reagents:

ACROLEIN W_00074	Amount Added:	0.00	Units: uL	
MIX I Hi_00087	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	0.00	Units: uL	
Ethanol mix_00013	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00047	Amount Added:	2.00	Units: uL	
14DIOXINTER_00082	Amount Added:	0.00	Units: uL	
GAS Hi_00244	Amount Added:	0.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:26:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D

Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15

Lims ID: STD8

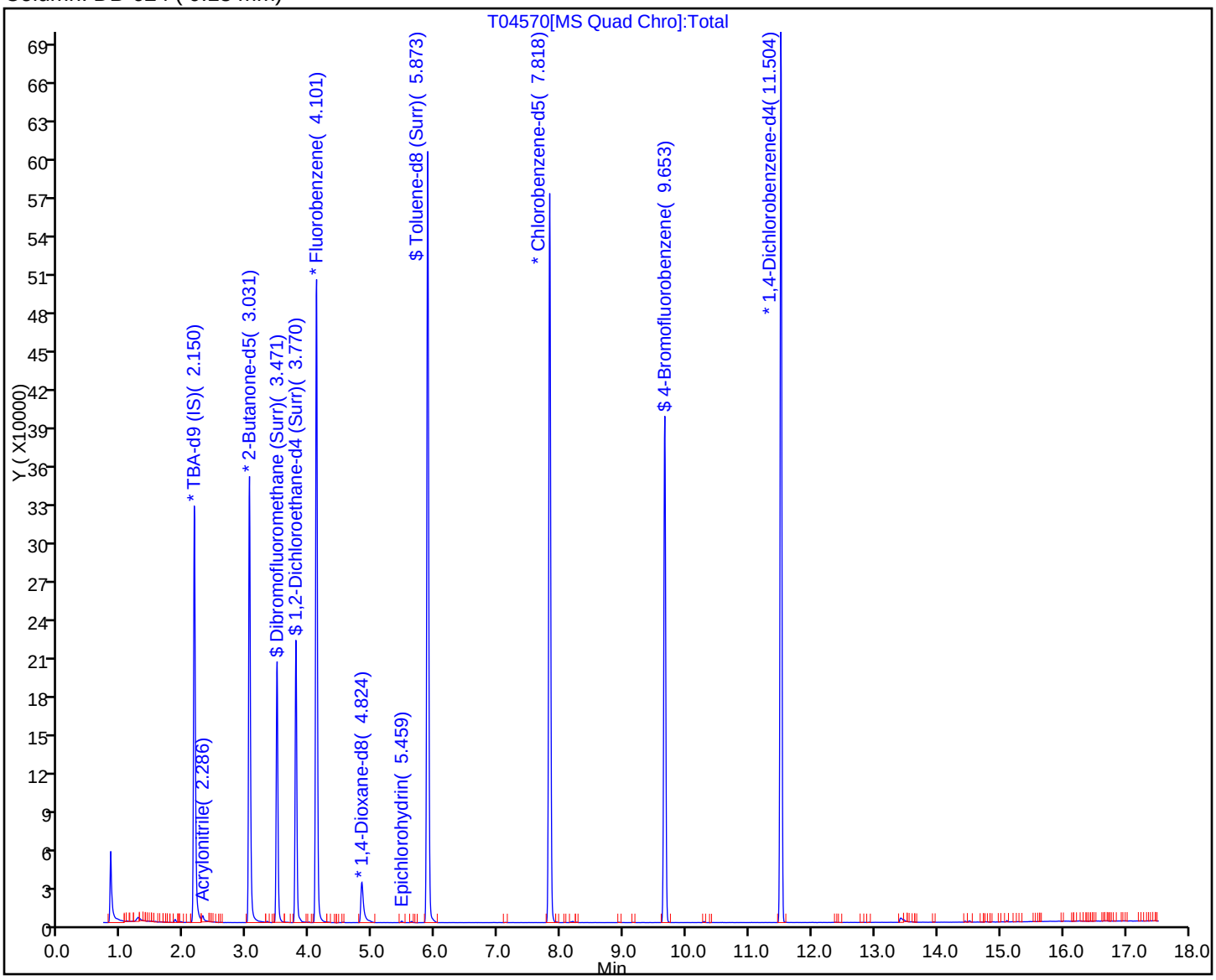
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



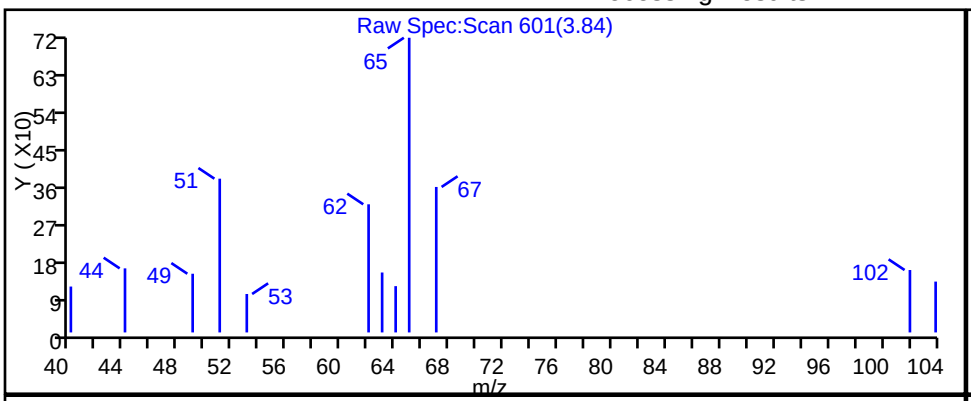
User Disabled Compound Report

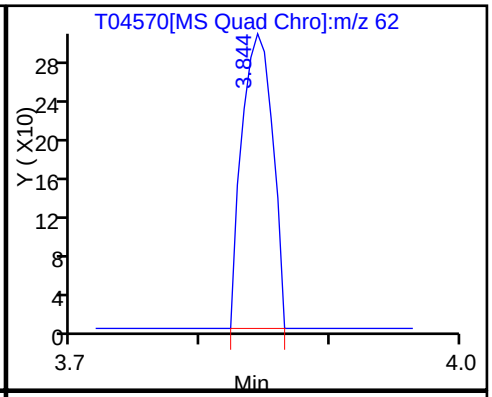
TestAmerica Edison

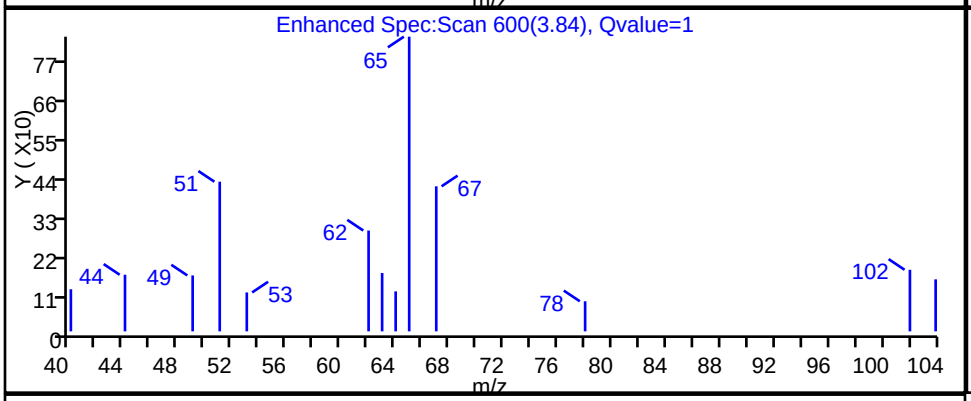
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

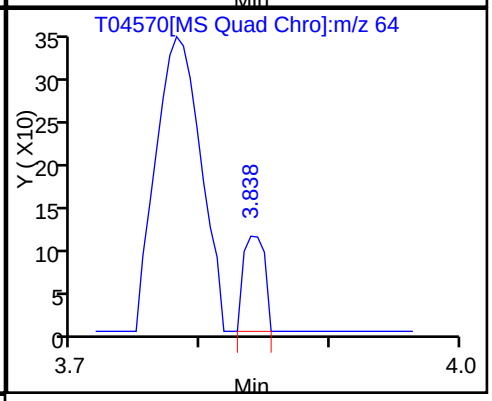
57 1,2-Dichloroethane, CAS: 107-06-2

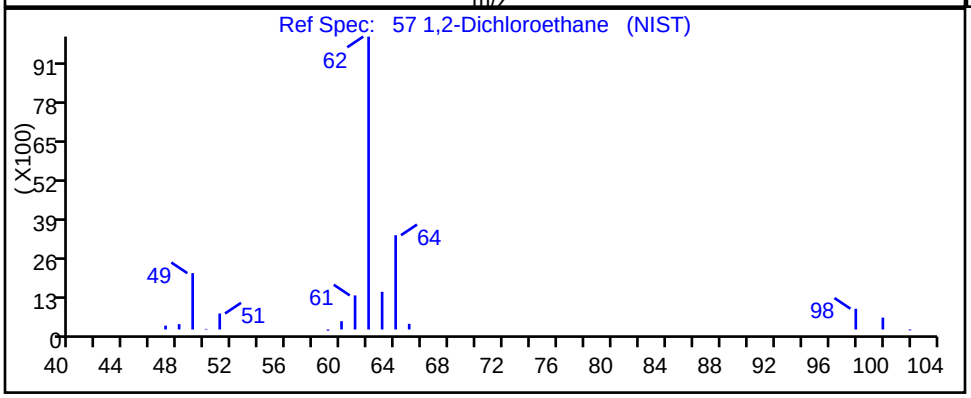
Processing Results











RT	Mass	Response	Amount
3.84	62.00	511	0.131088
3.84	64.00	130	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

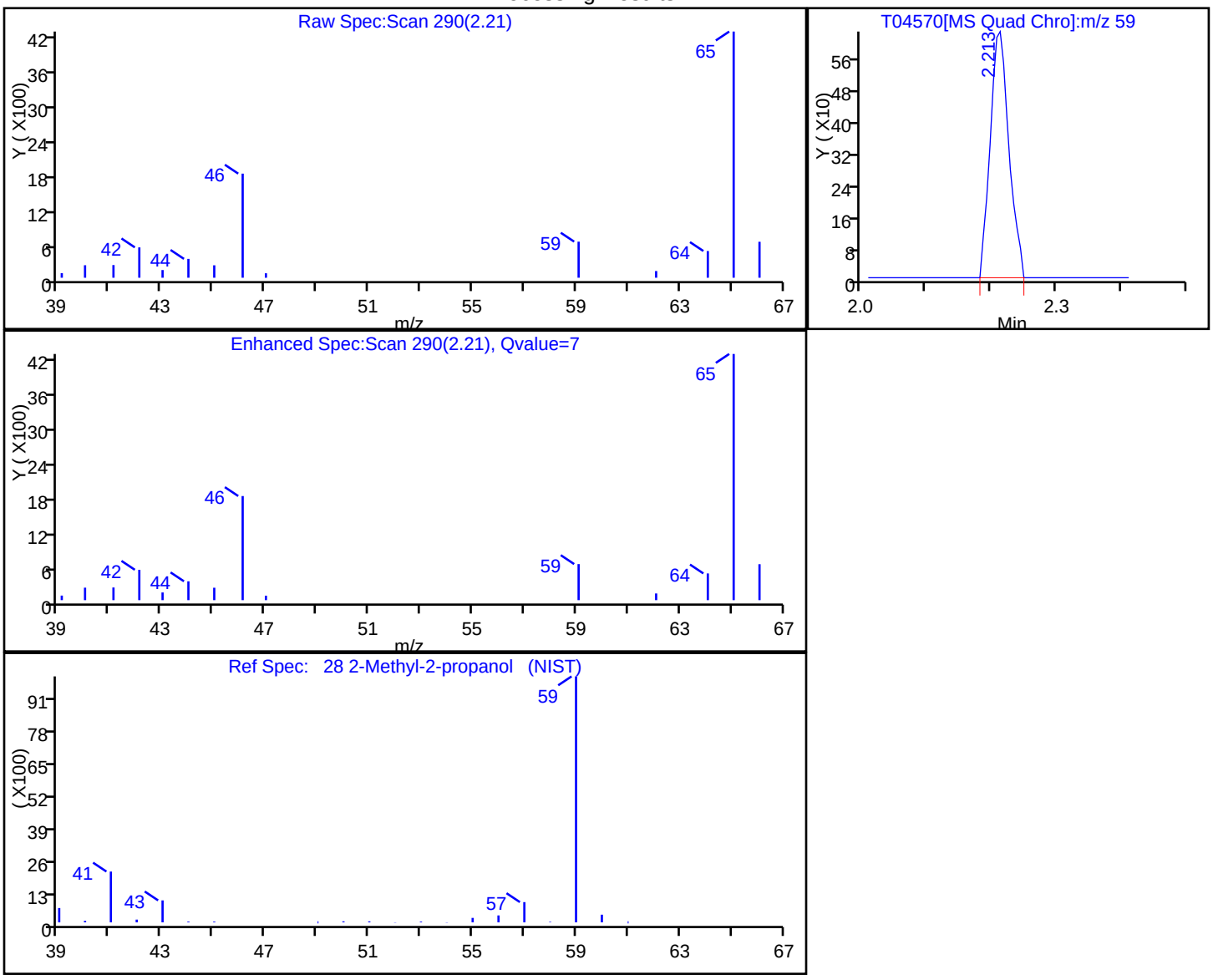
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
2.21	59.00	1253	3.710181

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

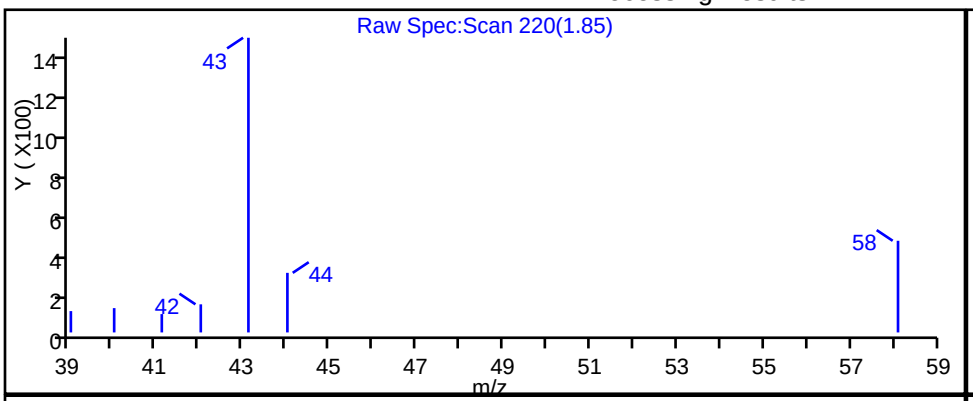
User Disabled Compound Report

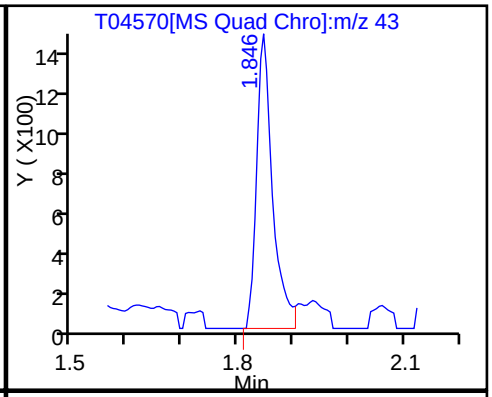
TestAmerica Edison

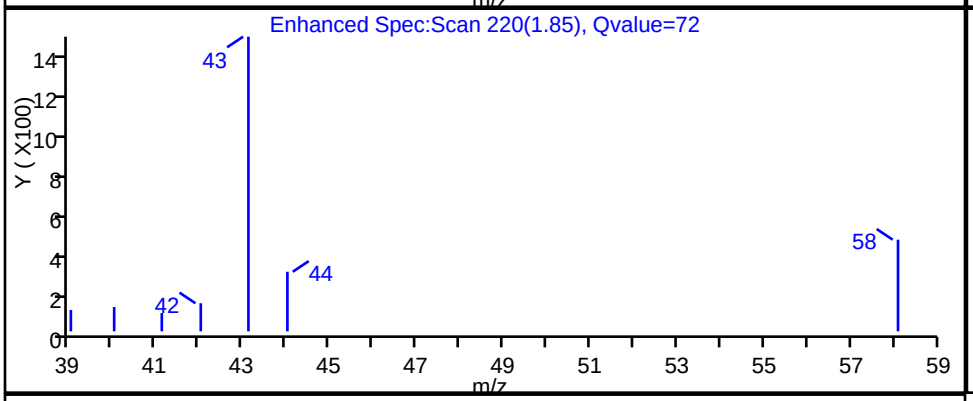
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

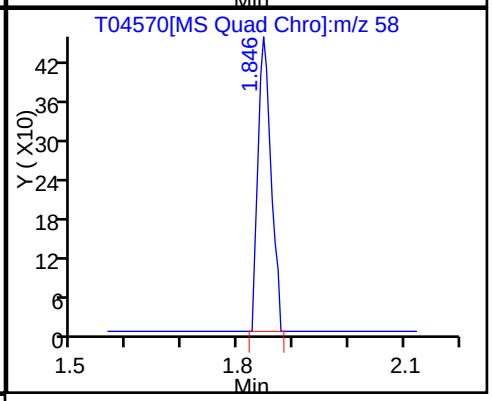
18 Acetone, CAS: 67-64-1

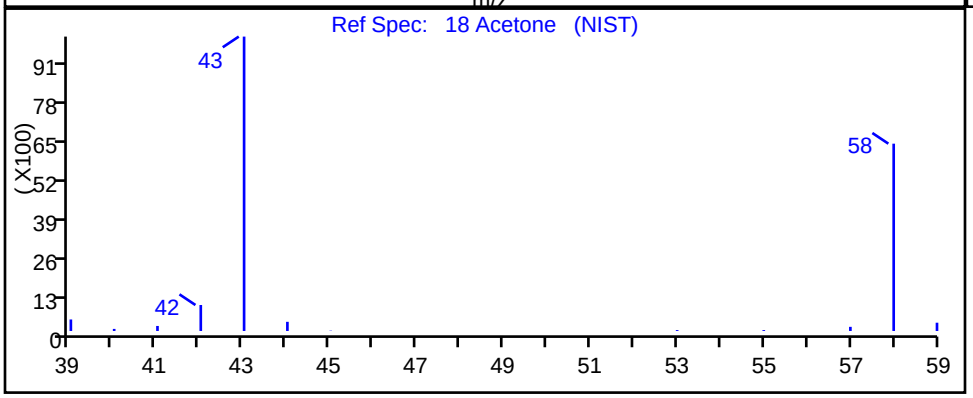
Processing Results











RT	Mass	Response	Amount
1.85	43.00	2968	2.573242
1.85	58.00	757	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

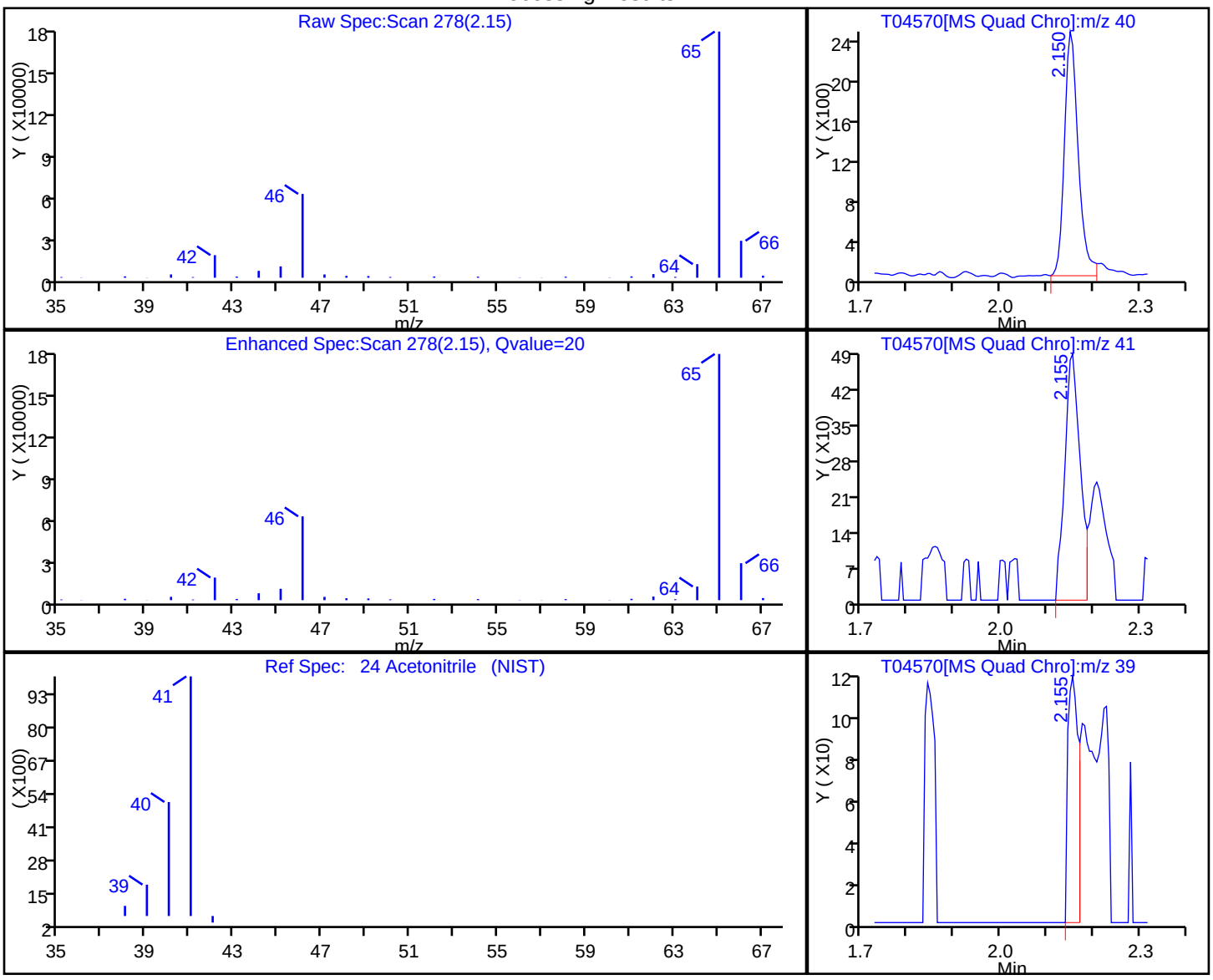
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

24 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.15	40.00	4827	17.080838
2.16	41.00	1135	
2.16	39.00	186	
2.15	38.00	2083	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

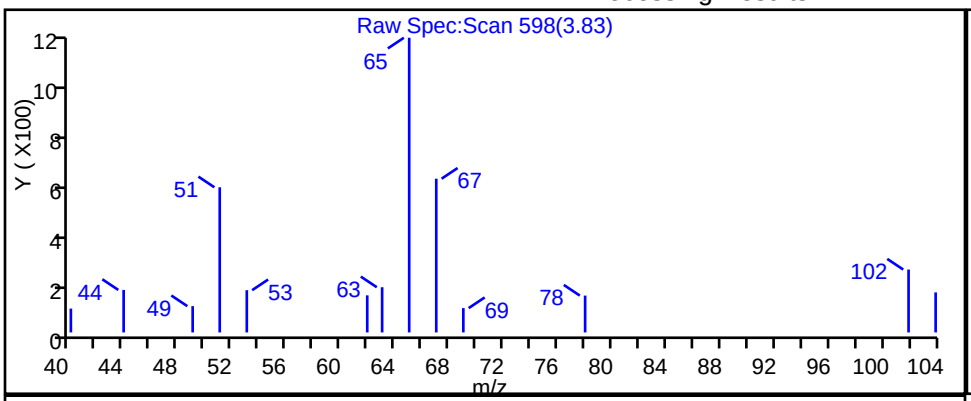
User Disabled Compound Report

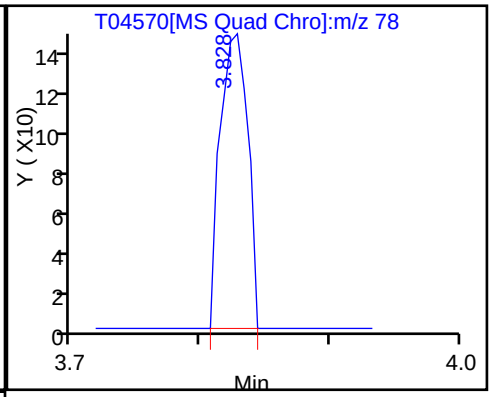
TestAmerica Edison

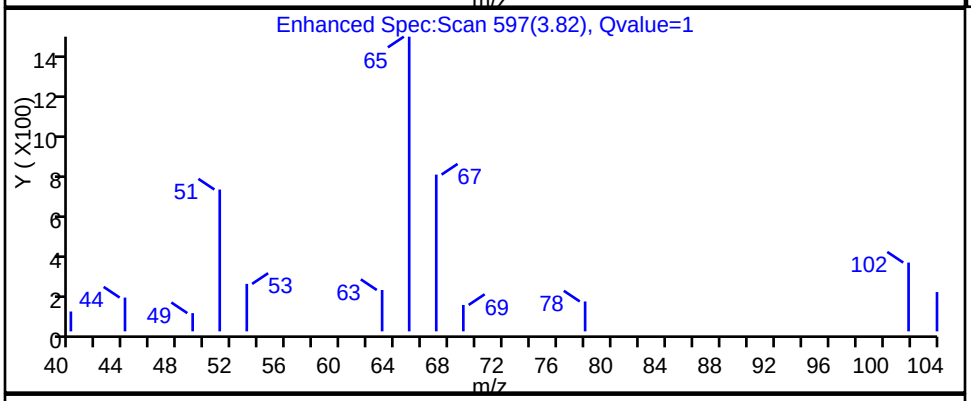
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

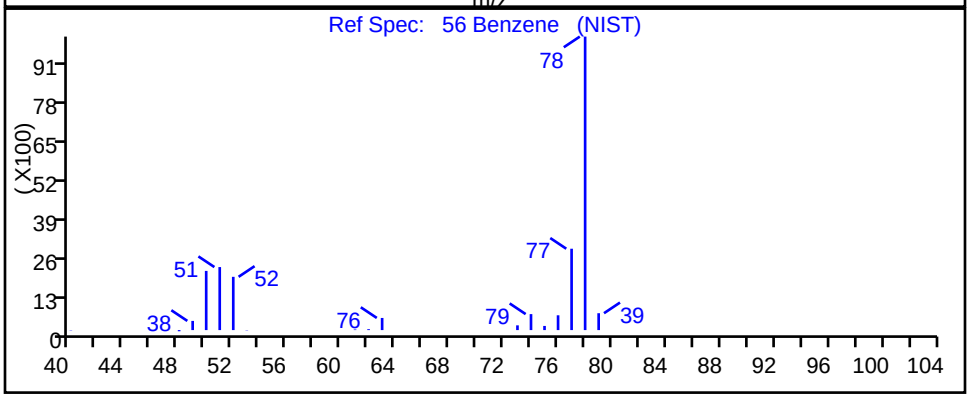
56 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.83	78.00	223	0.021723

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

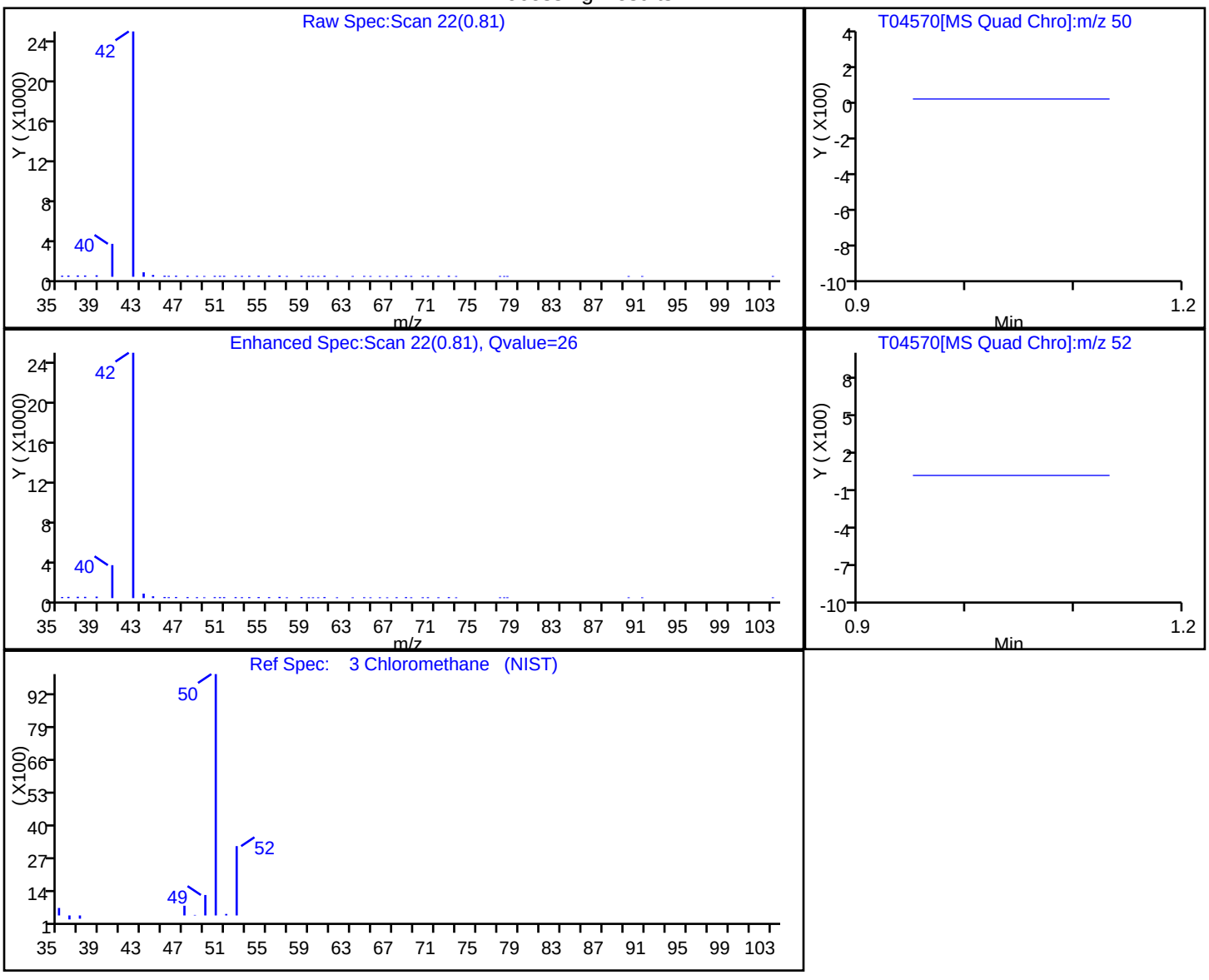
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.81	50.00	210	0.091476
0.82	52.00	330	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

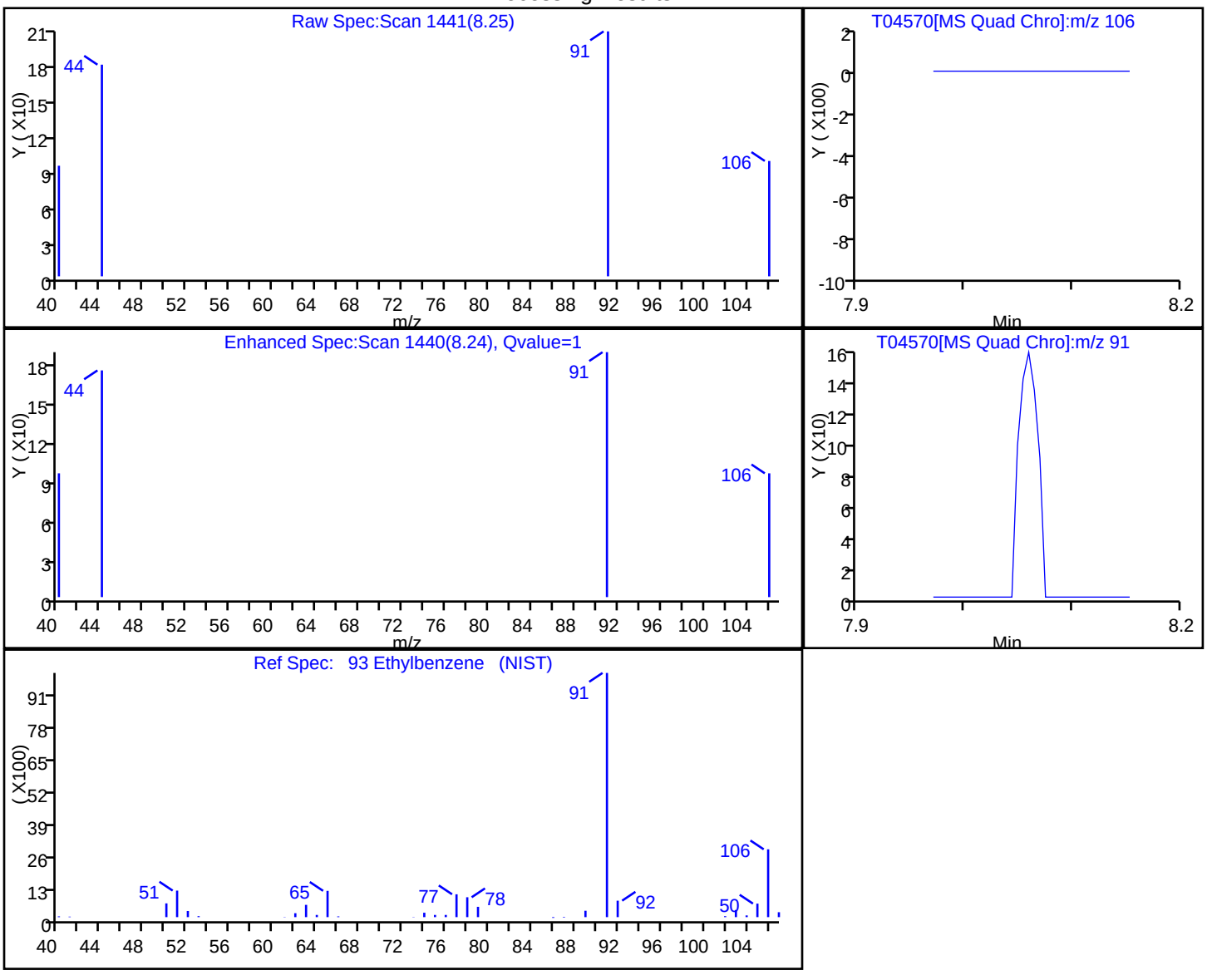
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

93 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
8.25	106.00	136	0.034154
8.25	91.00	350	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

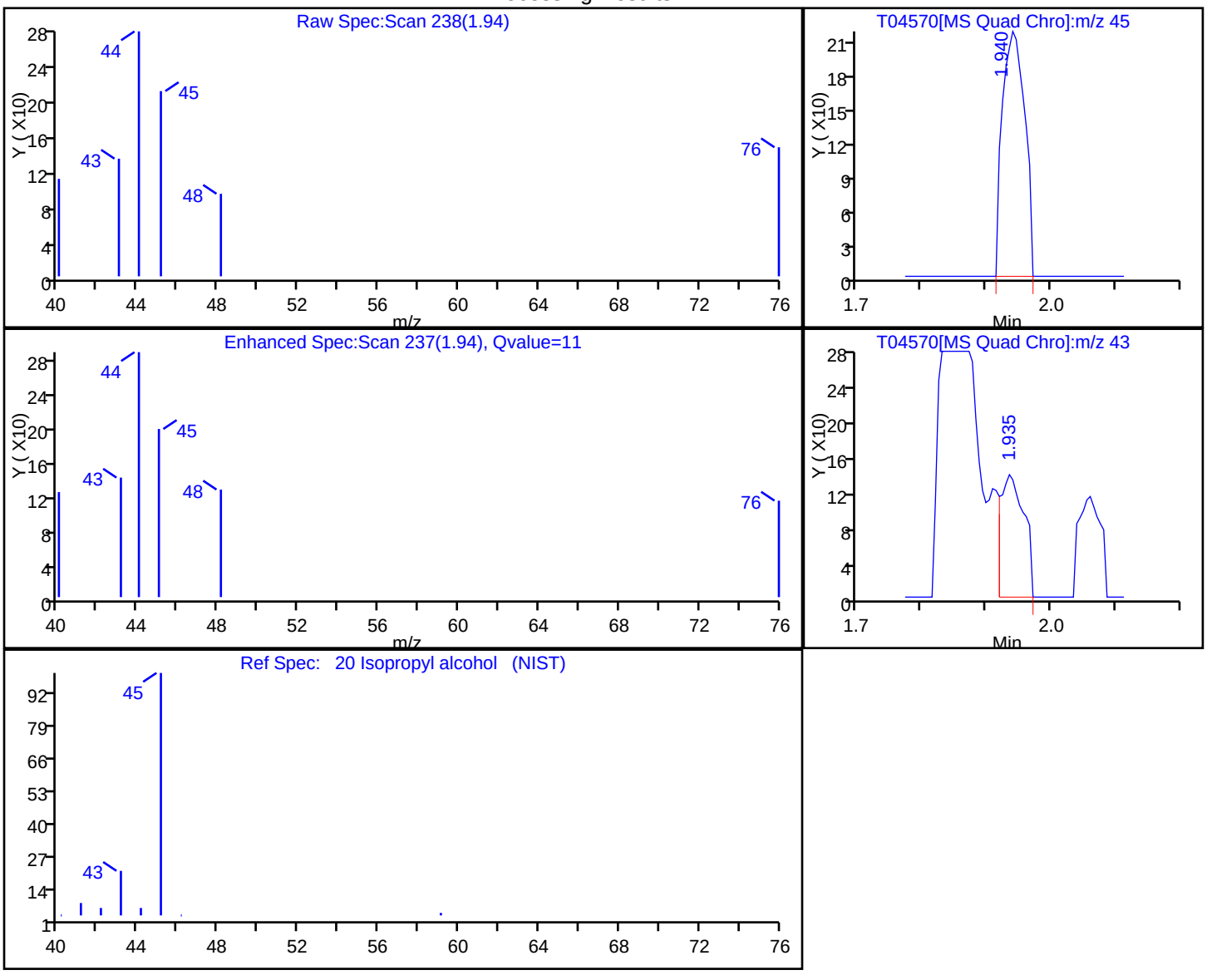
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
1.94	45.00	508	2.391135
1.94	43.00	356	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

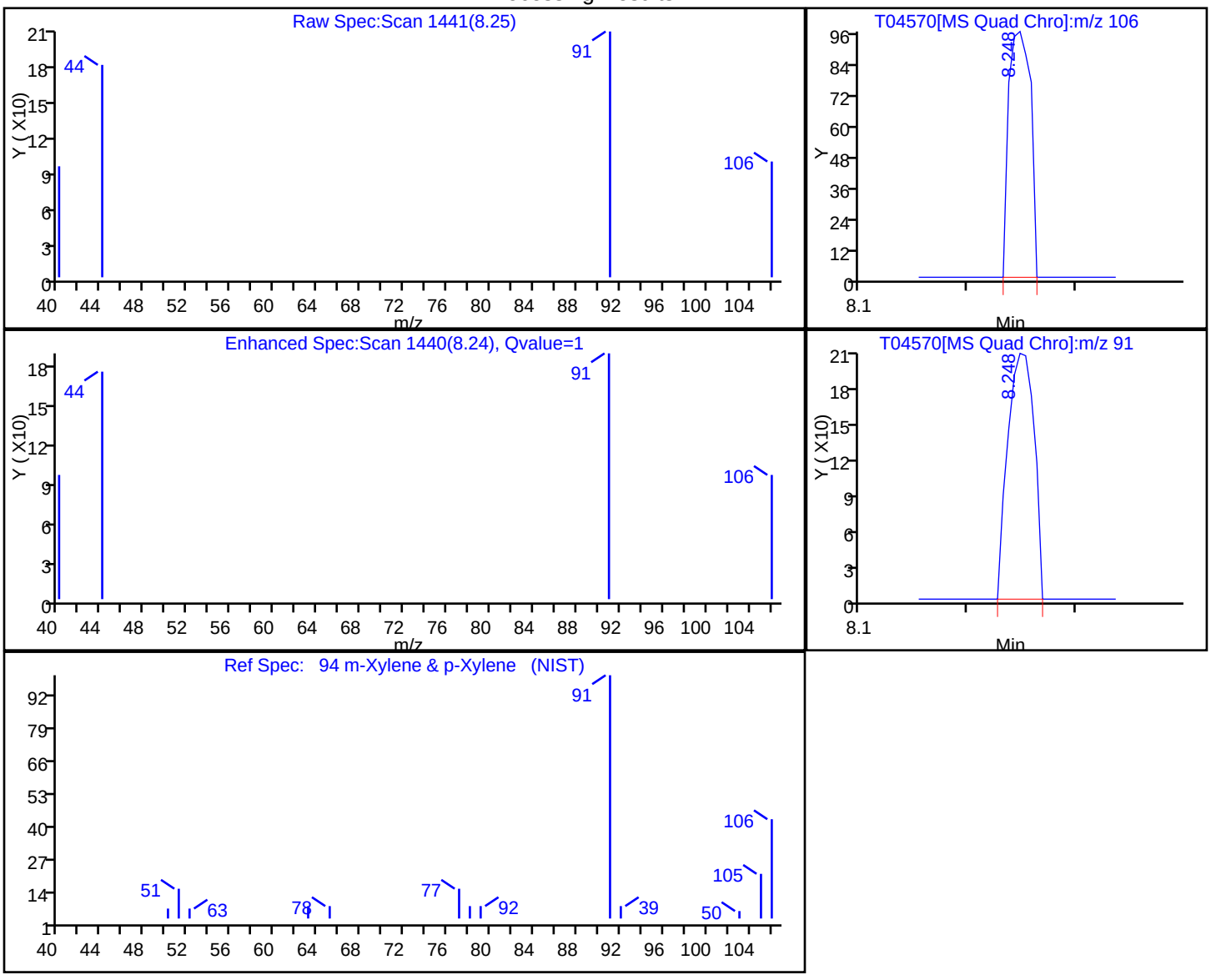
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

94 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
8.25	106.00	136	0.028186
8.25	91.00	350	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

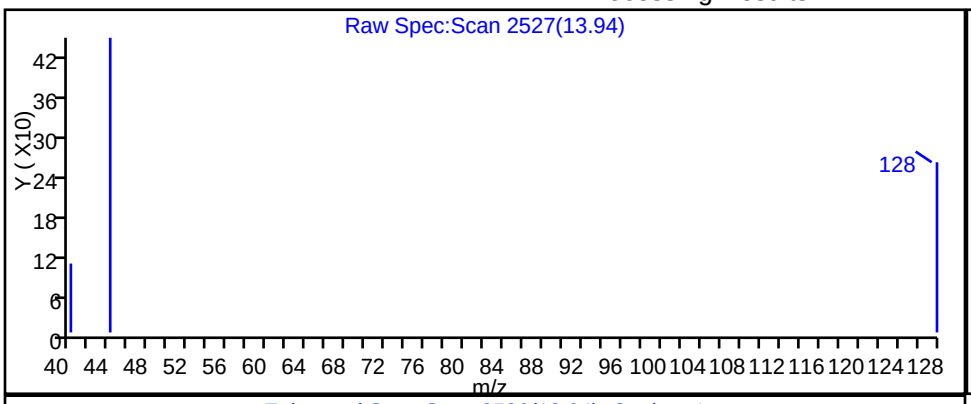
User Disabled Compound Report

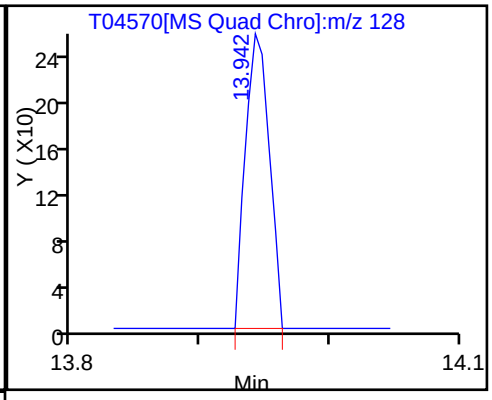
TestAmerica Edison

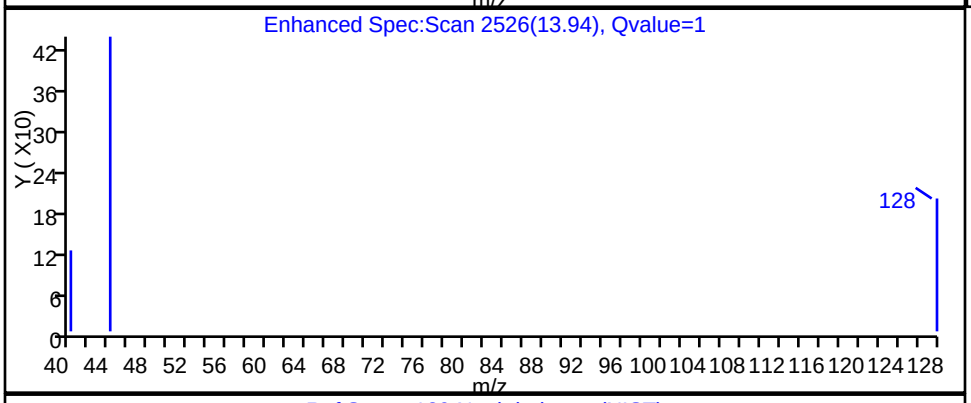
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

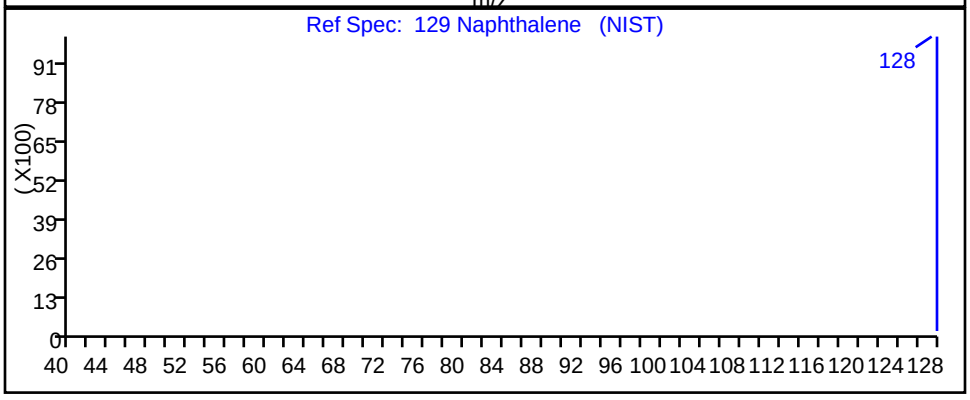
129 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
13.94	128.00	331	0.039353

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

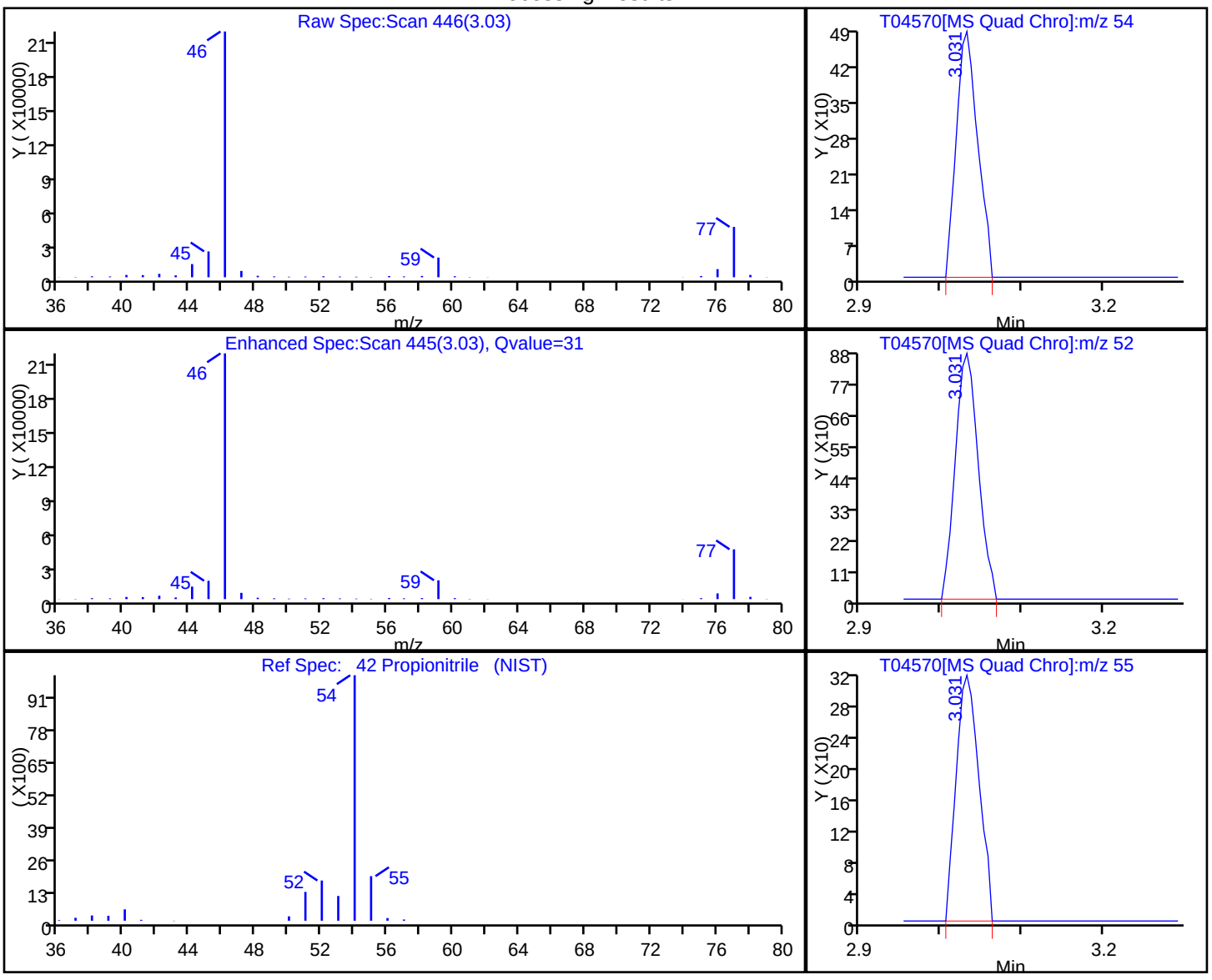
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

42 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.03	54.00	883	2.544218
3.03	52.00	1736	
3.03	55.00	621	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

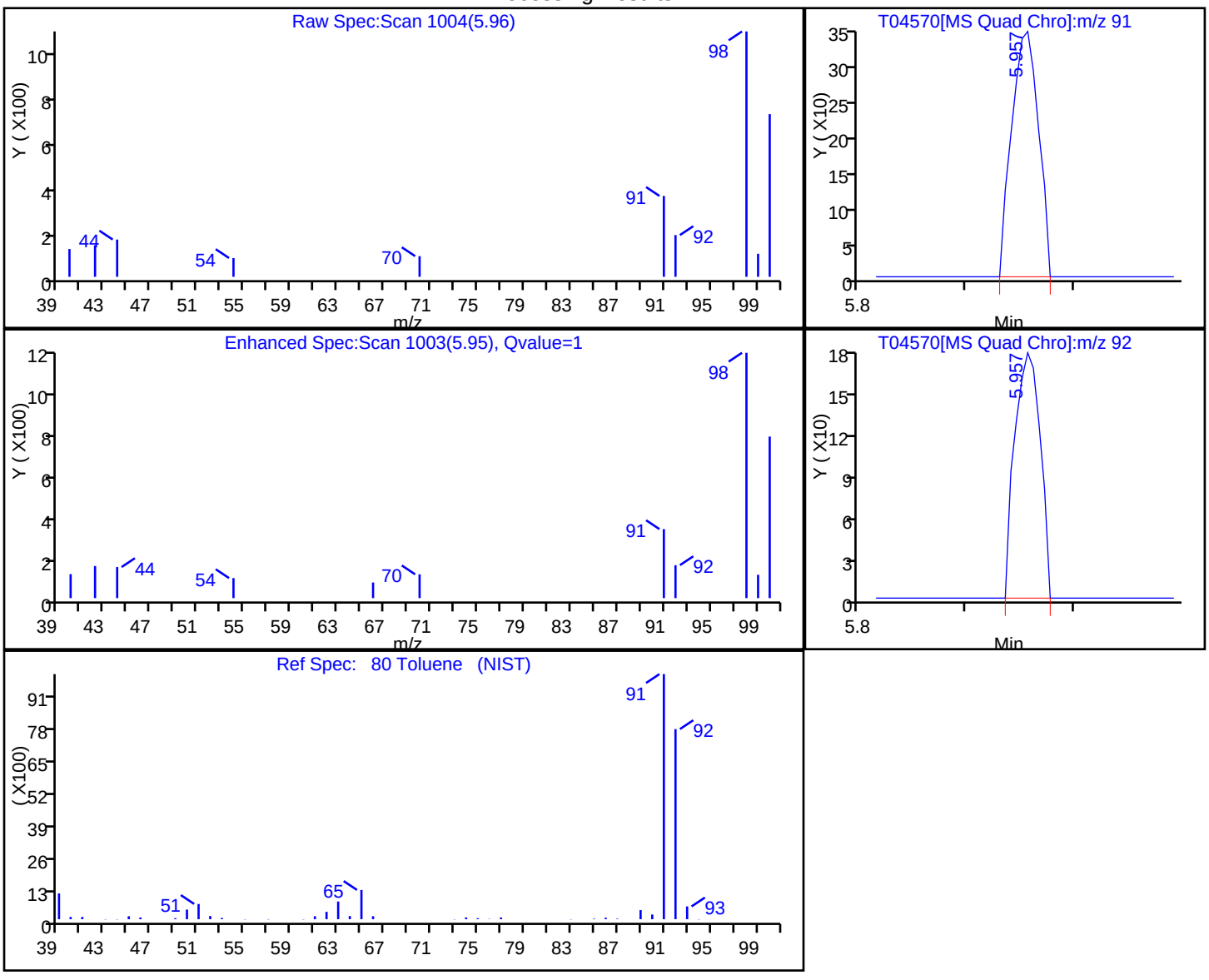
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

80 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
5.96	91.00	590	0.052561
5.96	92.00	290	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

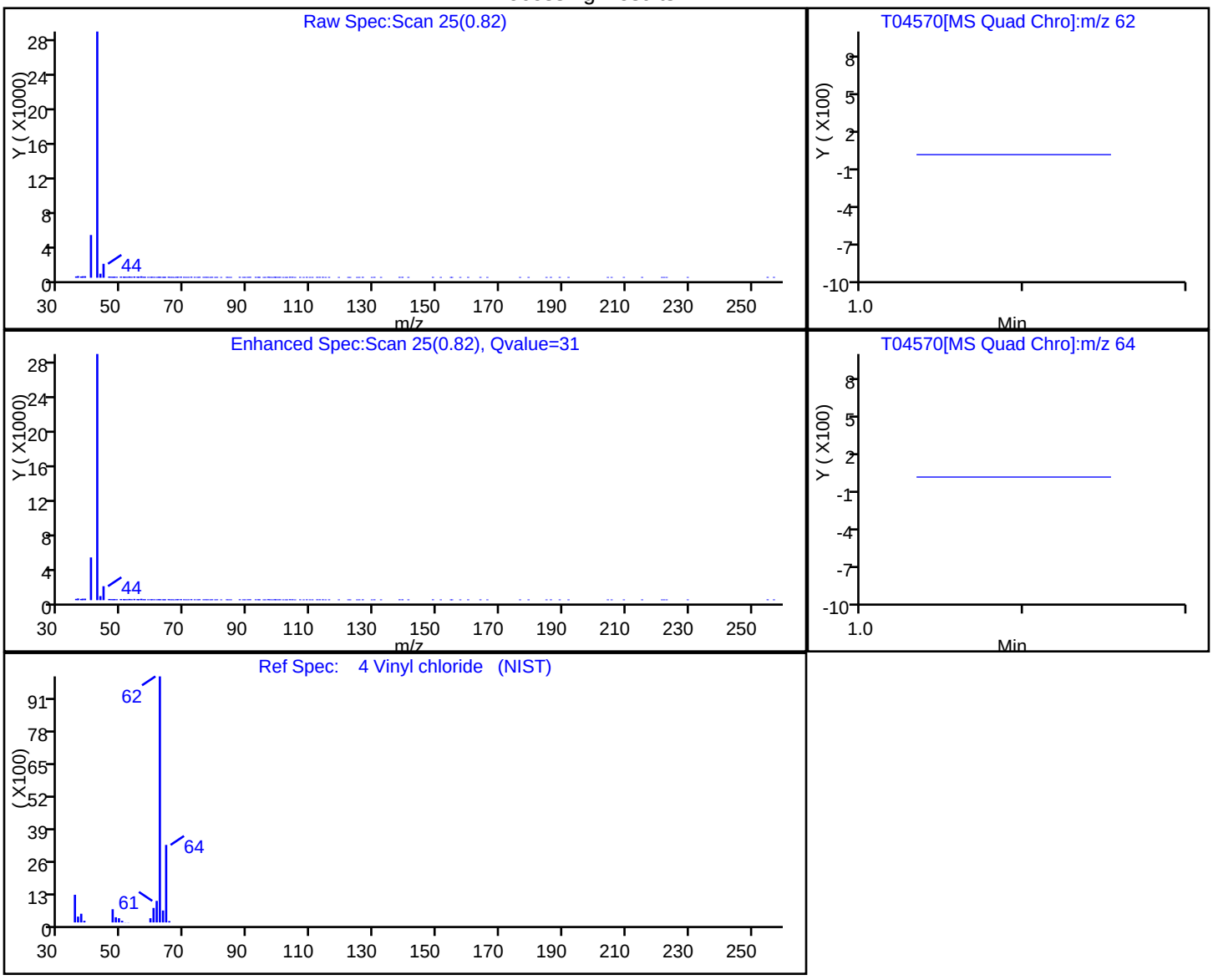
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04570.D
Injection Date: 13-Mar-2018 09:07:19 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.82	62.00	131	0.069766
0.82	64.00	184	

Reviewer: delpolitov, 16-Mar-2018 12:20:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04573.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Mar-2018 10:23:32 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:24:48 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:16:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.913	0.913	0.000	28	1239	5.00	2.23	
2	Dichlorodifluoromethane	85	0.934	0.933	0.001	83	8731	5.00	2.57	
3	Chloromethane	50	1.044	1.044	0.000	83	9416	5.00	4.43	
4	Vinyl chloride	62	1.096	1.096	0.000	82	8043	5.00	4.31	
5	Butadiene	54	1.117	1.117	0.000	95	6748	5.00	3.66	
6	Bromomethane	94	1.280	1.280	0.000	72	1033	5.00	2.61	
7	Chloroethane	64	1.342	1.342	0.000	87	4620	5.00	5.10	
8	Dichlorofluoromethane	67	1.458	1.458	0.000	87	14042	5.00	4.75	
9	Trichlorofluoromethane	101	1.495	1.495	0.001	85	13298	5.00	3.04	
10	Pentane	72	1.542	1.542	0.000	96	3583	10.0	9.01	
11	Ethanol	46	1.626	1.626	0.000	96	7690	200.0	253.3	
13	1,2-Dichloro-1,1,2-trifluo	117	1.678	1.673	0.005	78	10885	5.00	5.11	
12	Ethyl ether	59	1.673	1.673	0.000	71	13741	5.00	5.36	
14	2-Methyl-1,3-butadiene	53	1.683	1.683	0.000	87	12019	5.00	4.85	
15	Acrolein	56	1.746	1.746	0.000	97	10284	20.0	21.5	
17	1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	57	10730	5.00	4.76	
16	1,1-Dichloroethene	96	1.809	1.809	0.000	88	12439	5.00	5.01	
18	Acetone	43	1.846	1.846	0.000	87	28072	25.0	23.1	
19	Iodomethane	142	1.903	1.898	0.005	72	2299	5.00	1.10	
20	Isopropyl alcohol	45	1.945	1.945	0.000	47	10603	50.0	47.3	
21	Carbon disulfide	76	1.945	1.945	0.000	99	26576	5.00	4.23	
24	Acetonitrile	40	2.024	2.024	0.000	92	15182	50.0	51.0	
22	3-Chloro-1-propene	76	2.040	2.040	0.000	89	7792	5.00	4.66	
23	Methyl acetate	43	2.056	2.056	0.000	98	67769	25.0	26.3	
25	Cyclopentene	67	2.092	2.092	0.000	94	29904	5.00	4.85	
26	Methylene Chloride	84	2.118	2.118	0.000	92	15298	5.00	5.08	
* 27	TBA-d9 (IS)	66	2.155	2.155	0.000	98	57381	1000.0	1000.0	
28	2-Methyl-2-propanol	59	2.213	2.213	0.000	96	17783	50.0	49.9	
29	Acrylonitrile	53	2.286	2.286	0.000	94	69527	50.0	55.3	
30	trans-1,2-Dichloroethene	96	2.307	2.307	0.000	85	14053	5.00	5.31	
31	Methyl tert-butyl ether	73	2.318	2.318	0.000	95	36155	5.00	5.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	92	19195	5.00	4.63	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	93	28093	5.00	5.06	
34 Vinyl acetate	86	2.653	2.653	0.000	100	5527	10.0	10.8	
35 Isopropyl ether	45	2.674	2.674	0.000	88	55546	5.00	5.33	
36 2-Chloro-1,3-butadiene	88	2.679	2.679	0.000	66	12805	5.00	5.15	
37 Tert-butyl ethyl ether	59	2.957	2.957	0.000	88	47470	5.00	4.91	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	99	446431	250.0	250.0	
39 2,2-Dichloropropane	97	3.062	3.062	0.000	61	4264	5.00	5.01	a
40 cis-1,2-Dichloroethene	96	3.062	3.062	0.000	63	16233	5.00	5.18	
41 2-Butanone (MEK)	43	3.083	3.083	0.000	98	42958	25.0	24.7	
42 Propionitrile	54	3.125	3.125	0.000	98	27920	50.0	52.1	
43 Ethyl acetate	70	3.141	3.141	0.000	97	3216	10.0	10.3	
44 Methyl acrylate	55	3.167	3.167	0.000	92	16935	5.00	4.69	
45 Methacrylonitrile	67	3.256	3.256	0.000	95	64564	50.0	54.1	
46 Chlorobromomethane	128	3.256	3.261	-0.005	38	6812	5.00	5.41	
47 Tetrahydrofuran	72	3.309	3.309	0.000	81	3969	10.0	9.90	
48 Chloroform	83	3.335	3.335	0.000	91	22543	5.00	4.95	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	122856	50.0	50.2	
50 1,1,1-Trichloroethane	97	3.492	3.487	0.005	46	17765	5.00	4.74	
51 Cyclohexane	84	3.539	3.539	0.000	95	18216	5.00	4.91	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	91	17967	5.00	5.26	
52 Carbon tetrachloride	117	3.639	3.639	0.000	64	11919	5.00	4.30	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.775	0.000	86	143412	50.0	51.5	
54 Isobutyl alcohol	43	3.791	3.791	0.000	89	16692	125.0	116.8	a
56 Benzene	78	3.828	3.828	0.000	98	56353	5.00	5.19	
57 1,2-Dichloroethane	62	3.843	3.843	0.000	59	19260	5.00	4.98	
58 Isooctane	57	3.922	3.922	0.000	97	46383	5.00	4.68	
59 Isopropyl acetate	61	3.938	3.938	0.000	93	6135	5.00	5.10	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	81	35485	5.00	4.91	
* 61 Fluorobenzene	96	4.100	4.100	0.000	99	486571	50.0	50.0	
62 n-Heptane	43	4.116	4.116	0.000	39	19240	5.00	4.53	
63 n-Butanol	56	4.467	4.467	0.000	65	9439	125.0	107.4	
64 Trichloroethene	95	4.473	4.473	0.000	92	14275	5.00	5.04	
65 Ethyl acrylate	55	4.630	4.630	0.000	96	19091	5.00	4.45	
66 Methylcyclohexane	83	4.672	4.672	0.000	89	20286	5.00	4.73	
67 1,2-Dichloropropane	63	4.709	4.709	0.000	88	16381	5.00	5.19	
69 Dibromomethane	93	4.829	4.829	0.000	44	7911	5.00	4.78	
* 68 1,4-Dioxane-d8	96	4.824	4.829	-0.005	52	41156	1000.0	1000.0	
71 Methyl methacrylate	100	4.882	4.882	0.000	95	7071	10.0	9.75	
70 1,4-Dioxane	88	4.882	4.882	0.000	28	3383	100.0	93.4	
72 n-Propyl acetate	43	4.965	4.965	0.000	97	23988	5.00	4.71	
73 Dichlorobromomethane	83	5.023	5.023	0.000	92	12490	5.00	4.28	
74 2-Nitropropane	41	5.296	5.296	0.000	90	4901	10.0	8.34	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	91	10197	5.00	4.55	
76 Epichlorohydrin	57	5.458	5.458	0.000	98	36935	100.0	104.3	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	90	19011	5.00	4.75	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	75633	25.0	23.9	
$ 79 Toluene-d8 (Surr)	98	5.873	5.878	-0.005	98	486583	50.0	51.0	
80 Toluene	91	5.956	5.956	0.000	93	58546	5.00	5.26	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	91	15064	5.00	4.34	
82 Ethyl methacrylate	69	6.449	6.449	0.000	91	14018	5.00	4.62	
83 1,1,2-Trichloroethane	83	6.496	6.496	0.000	90	9821	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.659	6.659	0.000	90	15637	5.00	5.14	
85 1,3-Dichloropropane	76	6.711	6.711	0.000	95	21199	5.00	5.18	
86 2-Hexanone	43	6.890	6.884	0.006	97	51195	25.0	22.7	
87 Chlorodibromomethane	129	7.005	7.005	0.000	91	8213	5.00	4.20	
88 n-Butyl acetate	43	7.115	7.110	0.005	97	22833	5.00	4.64	
89 Ethylene Dibromide	107	7.131	7.131	0.000	66	12099	5.00	4.87	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	86	412513	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	94	37652	5.00	5.10	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.006	-0.005	84	10082	5.00	4.39	
93 Ethylbenzene	106	8.064	8.064	0.000	98	20480	5.00	5.19	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	97	24414	5.00	5.11	
95 o-Xylene	106	8.840	8.840	0.000	92	23360	5.00	5.12	
96 Styrene	104	8.866	8.872	-0.006	89	36603	5.00	5.05	
97 n-Butyl acrylate	73	8.924	8.924	0.000	92	7791	5.00	4.42	
98 Bromoform	173	9.102	9.102	0.000	86	5043	5.00	4.25	
99 Amyl acetate (mixed isomer	43	9.317	9.312	0.005	88	23315	5.00	4.34	
100 Isopropylbenzene	105	9.448	9.448	0.000	95	61320	5.00	5.20	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	155605	50.0	50.2	
102 Bromobenzene	156	9.847	9.847	0.000	91	15658	5.00	4.96	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	87	14220	5.00	4.90	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	87	4656	5.00	4.93	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.062	0.000	52	3884	5.00	4.06	
106 N-Propylbenzene	91	10.114	10.119	-0.005	98	73291	5.00	5.18	
107 2-Chlorotoluene	91	10.193	10.193	0.000	94	42474	5.00	5.12	
108 4-Ethyltoluene	105	10.313	10.319	-0.006	97	59195	5.00	5.01	
109 4-Chlorotoluene	91	10.382	10.382	0.000	97	40977	5.00	5.09	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	91	47994	5.00	5.08	
111 Butyl Methacrylate	87	10.712	10.712	0.000	89	11890	5.00	4.13	
112 tert-Butylbenzene	119	10.953	10.953	0.000	90	42938	5.00	5.08	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	49315	5.00	5.06	
113 sec-Butylbenzene	105	11.310	11.310	0.000	98	63731	5.00	5.11	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	94	28604	5.00	4.99	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.509	-0.005	96	223373	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	84	28532	5.00	5.14	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	89	52872	5.00	5.26	
135 1,2,3-Trimethylbenzene	105	11.650	11.650	0.000	99	48765	5.00	5.02	
119 Benzyl chloride	91	11.755	11.755	0.000	95	17807	5.00	4.13	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	90	48123	5.00	5.15	
121 1,2-Dichlorobenzene	146	12.017	12.017	0.000	95	26468	5.00	5.03	
122 p-Diethylbenzene	119	12.065	12.065	0.000	91	27268	5.00	4.93	
123 n-Butylbenzene	92	12.091	12.091	0.000	96	27529	5.00	5.20	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.924	0.000	54	1722	5.00	4.30	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	96	41475	5.00	4.77	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	93	19002	5.00	4.86	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	91	15832	5.00	4.69	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	72	6799	5.00	4.63	
129 Naphthalene	128	13.942	13.942	0.000	99	39700	5.00	4.83	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	93	14482	5.00	4.82	
S 131 1,2-Dichloroethene, Total	100				0		10.0	10.5	
S 132 Xylenes, Total	100				0		10.0	10.2	
S 133 Total BTEX	1				0		25.0	25.9	
S 136 1,3-Dichloropropene, Total	1				0		5.00	9.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 Total 1,2-dichloroethene	1				0			10.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GAS Hi_00244	Amount Added:	1.00	Units: uL		
Ethanol mix_00013	Amount Added:	1.00	Units: uL		
MIX 2 Hi_00068	Amount Added:	1.00	Units: uL		
MIX I Hi_00087	Amount Added:	1.00	Units: uL		
ACROLEIN W_00074	Amount Added:	4.00	Units: uL		
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent	
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent	

Report Date: 16-Mar-2018 13:24:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04573.D

Injection Date: 13-Mar-2018 10:23:32 Instrument ID: CVOAMS15

Lims ID: STD5

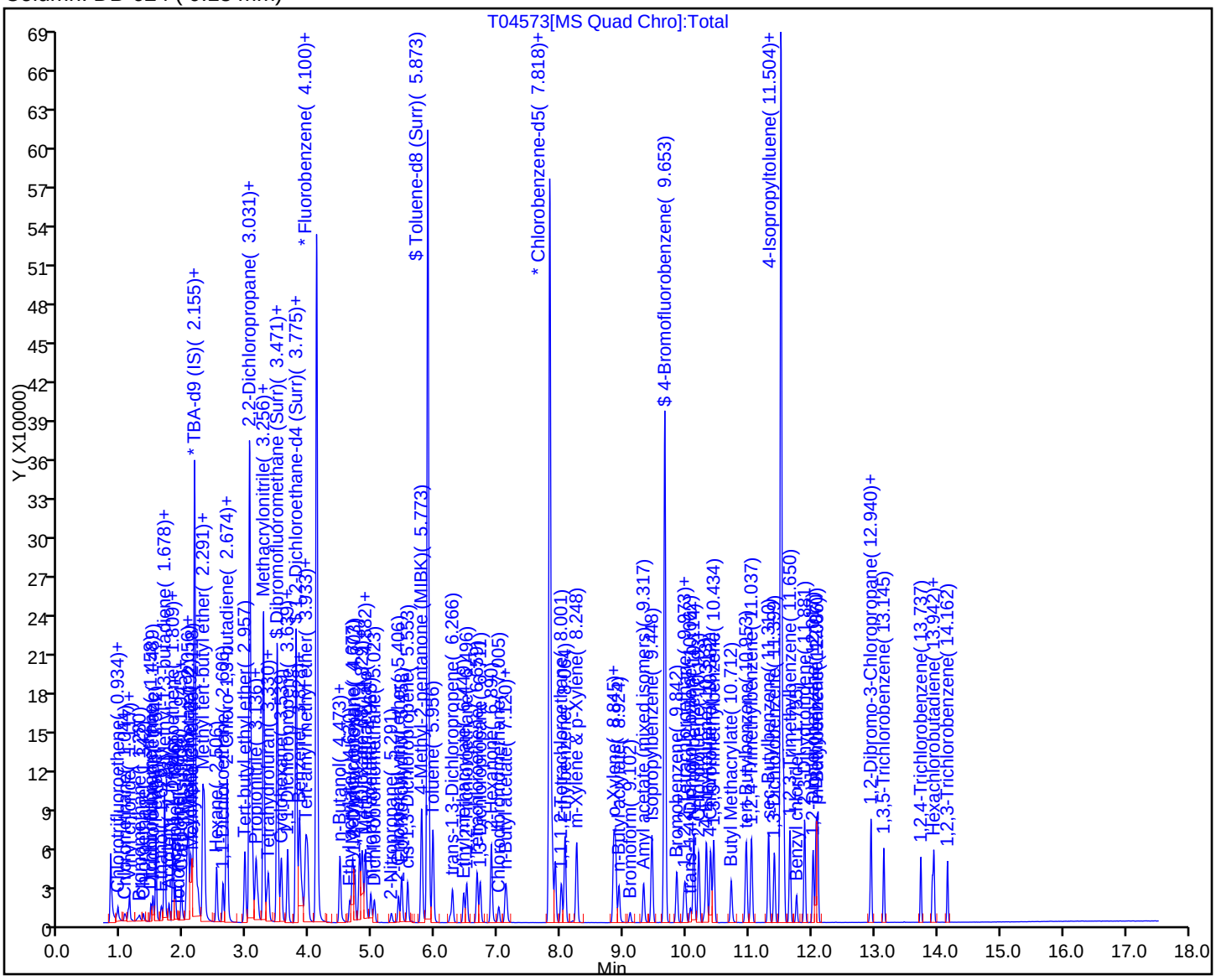
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

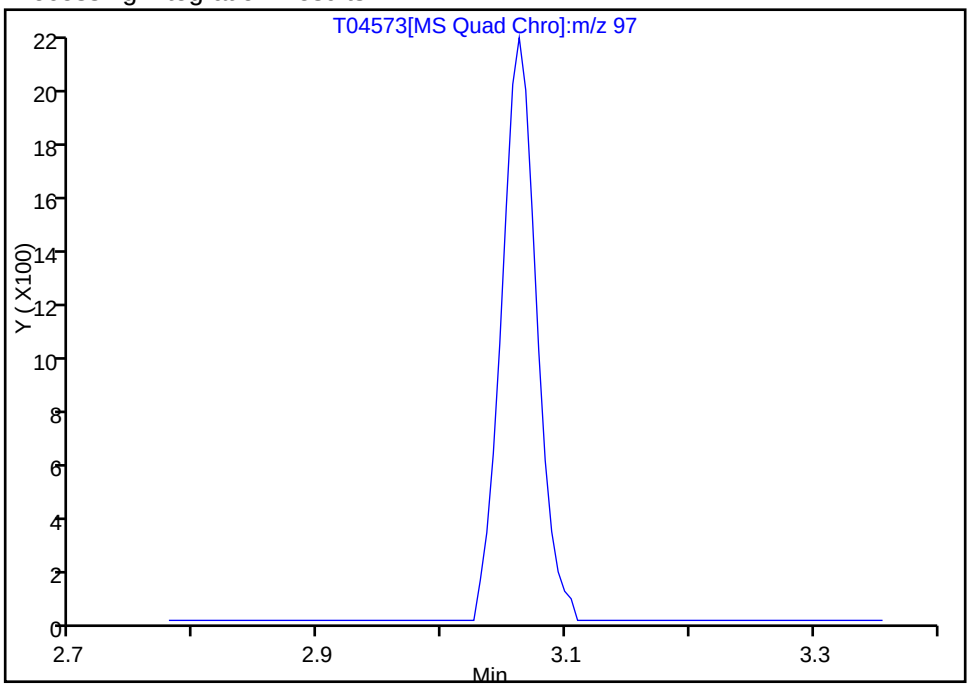
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04573.D				
Injection Date:	13-Mar-2018 10:23:32	Instrument ID:	CVOAMS15		
Lims ID:	STD5				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

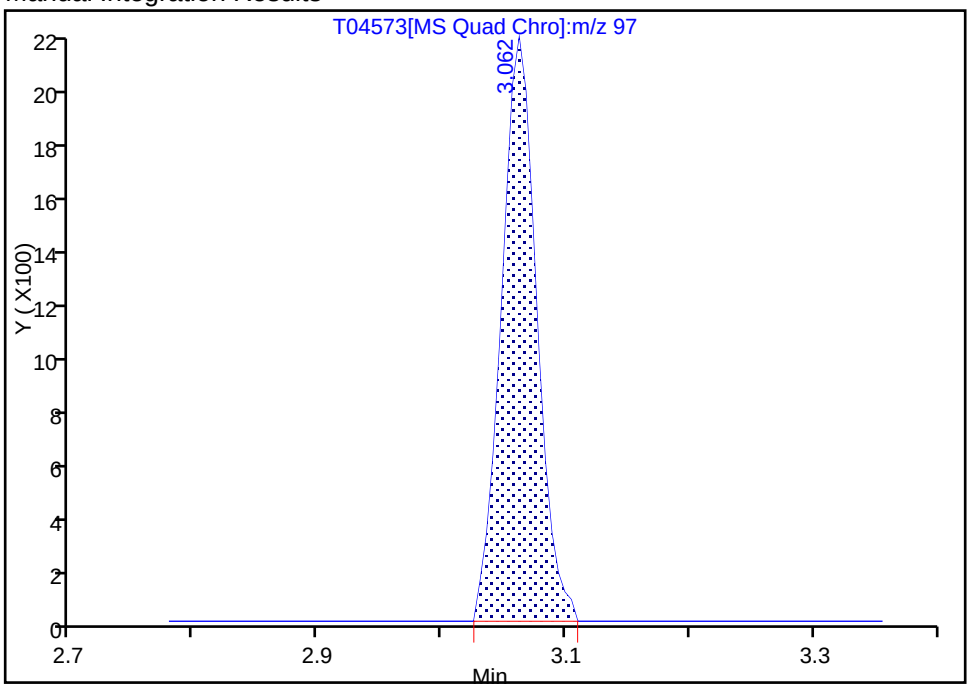
Processing Integration Results

Not Detected
Expected RT: 3.06



Manual Integration Results

RT: 3.06
Area: 4264
Amount: 5.014850
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:21:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

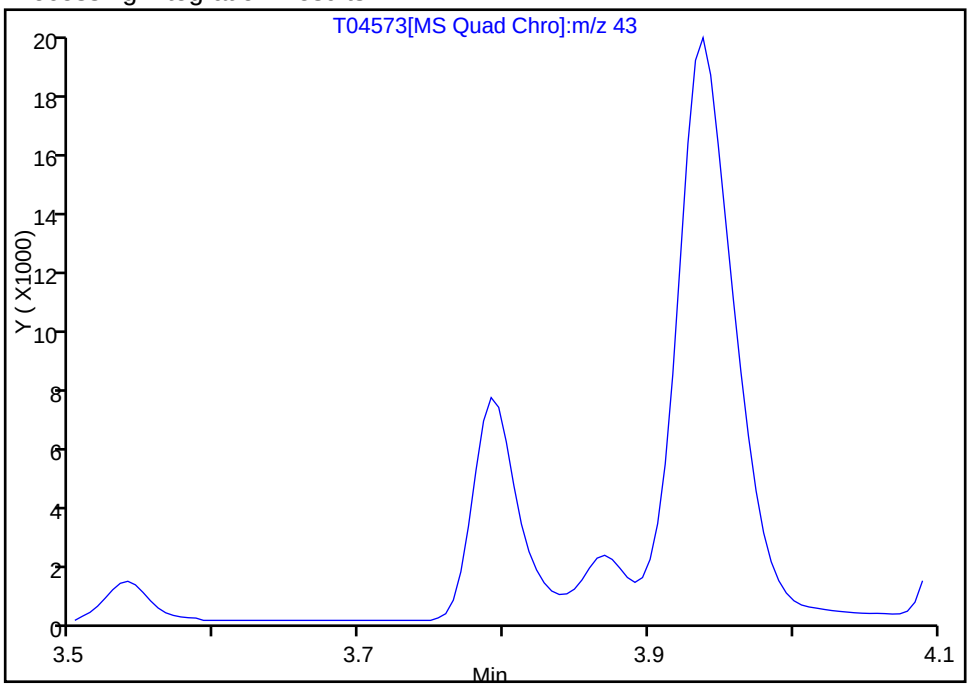
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04573.D
Injection Date: 13-Mar-2018 10:23:32 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

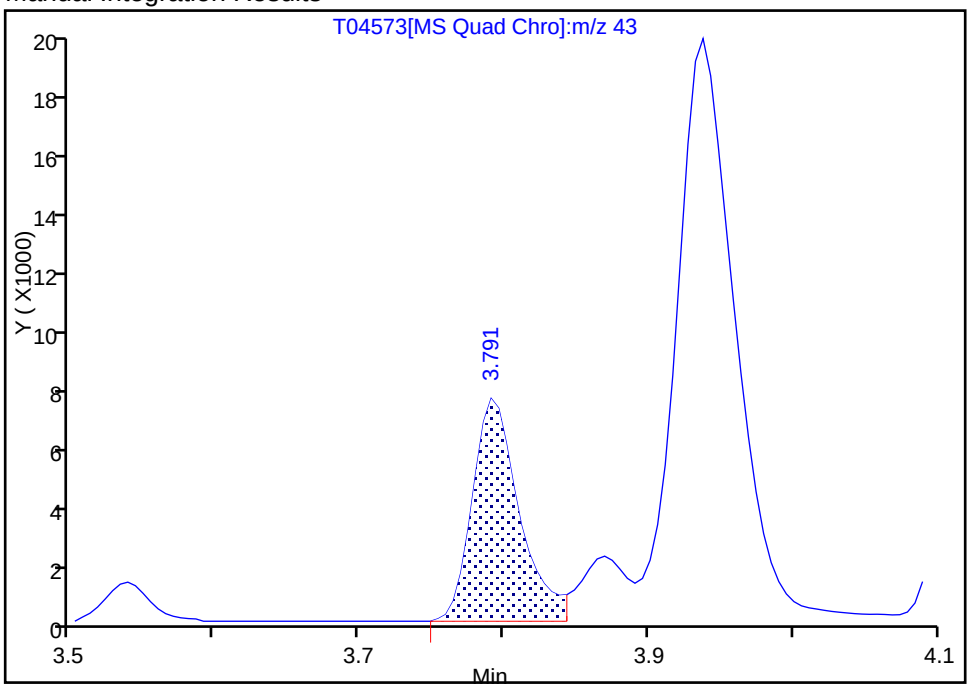
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 16692
Amount: 116.7681
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:21:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04574.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 13-Mar-2018 10:48:56 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:25:08 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 08:18:32

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.913	0.913	0.000	81	8469	20.0	15.2	
2	Dichlorodifluoromethane	85	0.933	0.933	0.000	88	43890	20.0	13.0	
3	Chloromethane	50	1.044	1.044	0.000	89	41436	20.0	19.5	
4	Vinyl chloride	62	1.096	1.096	0.000	83	34791	20.0	18.7	
5	Butadiene	54	1.117	1.117	0.000	95	31385	20.0	16.2	
6	Bromomethane	94	1.280	1.280	0.000	93	4660	20.0	11.7	
7	Chloroethane	64	1.342	1.342	0.000	95	19650	20.0	21.7	
8	Dichlorofluoromethane	67	1.458	1.458	0.000	90	62178	20.0	21.1	
9	Trichlorofluoromethane	101	1.495	1.495	0.000	88	61396	20.0	14.1	
10	Pentane	72	1.542	1.542	0.000	95	19305	40.0	48.5	
11	Ethanol	46	1.626	1.626	0.000	99	32150	800.0	1052.5	
12	Ethyl ether	59	1.673	1.673	0.000	68	58124	20.0	22.7	
13	1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	82	48898	20.0	23.0	
14	2-Methyl-1,3-butadiene	53	1.683	1.683	0.000	89	56339	20.0	22.8	
15	Acrolein	56	1.746	1.746	0.000	97	21546	40.0	44.7	
16	1,1-Dichloroethene	96	1.809	1.809	0.000	88	55555	20.0	22.4	
17	1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	64	53256	20.0	23.7	
18	Acetone	43	1.846	1.846	0.000	86	108114	100.0	88.7	
19	Iodomethane	142	1.898	1.898	0.000	96	20123	20.0	9.66	
21	Carbon disulfide	76	1.945	1.945	0.000	100	127948	20.0	20.4	
20	Isopropyl alcohol	45	1.945	1.945	0.000	44	46513	200.0	206.1	
24	Acetonitrile	40	2.024	2.024	0.000	91	64732	200.0	217.2	
22	3-Chloro-1-propene	76	2.040	2.040	0.000	90	39101	20.0	23.4	
23	Methyl acetate	43	2.056	2.056	0.000	98	288067	100.0	112.0	
25	Cyclopentene	67	2.092	2.092	0.000	95	136159	20.0	22.1	
26	Methylene Chloride	84	2.118	2.118	0.000	92	64010	20.0	21.3	
* 27	TBA-d9 (IS)	66	2.155	2.155	0.000	98	57724	1000.0	1000.0	
28	2-Methyl-2-propanol	59	2.213	2.213	0.000	98	75739	200.0	211.2	
29	Acrylonitrile	53	2.286	2.286	0.000	94	292050	200.0	232.6	
30	trans-1,2-Dichloroethene	96	2.307	2.307	0.000	85	60831	20.0	23.0	
31	Methyl tert-butyl ether	73	2.318	2.318	0.000	96	156476	20.0	22.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	93	100652	20.0	24.3	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	119117	20.0	21.5	
34 Vinyl acetate	86	2.653	2.653	0.000	100	25857	40.0	50.3	
35 Isopropyl ether	45	2.674	2.674	0.000	88	239306	20.0	23.0	
36 2-Chloro-1,3-butadiene	88	2.679	2.679	0.000	67	57879	20.0	23.3	
37 Tert-butyl ethyl ether	59	2.957	2.957	0.000	88	209164	20.0	21.7	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	99	447319	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.062	3.062	0.000	86	69596	20.0	22.3	
39 2,2-Dichloropropane	97	3.062	3.062	0.000	67	18989	20.0	22.4	a
41 2-Butanone (MEK)	43	3.083	3.083	0.000	99	179343	100.0	103.0	
42 Propionitrile	54	3.125	3.125	0.000	98	115088	200.0	213.5	
43 Ethyl acetate	70	3.141	3.141	0.000	99	13603	40.0	43.6	
44 Methyl acrylate	55	3.167	3.167	0.000	94	74463	20.0	20.7	
45 Methacrylonitrile	67	3.256	3.256	0.000	95	272820	200.0	229.0	
46 Chlorobromomethane	128	3.261	3.261	0.000	42	29250	20.0	23.3	
47 Tetrahydrofuran	72	3.309	3.309	0.000	85	17432	40.0	43.4	
48 Chloroform	83	3.335	3.335	0.000	92	97900	20.0	21.6	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	122962	50.0	50.4	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	72	80503	20.0	21.5	
51 Cyclohexane	84	3.539	3.539	0.000	95	86632	20.0	23.4	
52 Carbon tetrachloride	117	3.639	3.639	0.000	71	58256	20.0	21.1	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	90	77394	20.0	22.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.775	0.000	85	138999	50.0	50.0	
54 Isobutyl alcohol	43	3.791	3.791	0.000	77	82157	500.0	571.3	
56 Benzene	78	3.828	3.828	0.000	98	239293	20.0	21.8	
57 1,2-Dichloroethane	62	3.843	3.843	0.000	58	80975	20.0	21.0	
58 Isooctane	57	3.922	3.922	0.000	99	231344	20.0	23.4	
59 Isopropyl acetate	61	3.938	3.938	0.000	93	27817	20.0	23.2	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	81	159593	20.0	22.1	
* 61 Fluorobenzene	96	4.100	4.100	0.000	98	485688	50.0	50.0	
62 n-Heptane	43	4.116	4.116	0.000	52	99039	20.0	23.4	
63 n-Butanol	56	4.467	4.467	0.000	89	48713	500.0	550.9	
64 Trichloroethene	95	4.473	4.473	0.000	94	61181	20.0	21.6	
65 Ethyl acrylate	55	4.630	4.630	0.000	98	91530	20.0	19.8	
66 Methylcyclohexane	83	4.672	4.672	0.000	90	102065	20.0	23.9	
67 1,2-Dichloropropane	63	4.709	4.709	0.000	87	69764	20.0	22.1	
* 68 1,4-Dioxane-d8	96	4.829	4.829	0.000	37	39551	1000.0	1000.0	
69 Dibromomethane	93	4.829	4.829	0.000	97	36062	20.0	21.8	
70 1,4-Dioxane	88	4.882	4.882	0.000	31	15629	400.0	449.0	
71 Methyl methacrylate	100	4.882	4.882	0.000	96	31269	40.0	43.2	
72 n-Propyl acetate	43	4.965	4.965	0.000	99	107999	20.0	21.2	
73 Dichlorobromomethane	83	5.023	5.023	0.000	95	59203	20.0	20.3	
74 2-Nitropropane	41	5.296	5.296	0.000	96	26376	40.0	39.8	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	94	47575	20.0	21.3	
76 Epichlorohydrin	57	5.458	5.458	0.000	99	169033	400.0	476.2	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	91	90591	20.0	22.4	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	351907	100.0	111.0	
$ 79 Toluene-d8 (Surr)	98	5.878	5.878	0.000	98	487776	50.0	50.6	
80 Toluene	91	5.956	5.956	0.000	93	252081	20.0	22.4	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	96	75115	20.0	21.4	
82 Ethyl methacrylate	69	6.449	6.449	0.000	94	69479	20.0	22.7	
83 1,1,2-Trichloroethane	83	6.496	6.496	0.000	92	43952	20.0	22.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.659	6.659	0.000	93	67924	20.0	22.1	
85 1,3-Dichloropropane	76	6.711	6.711	0.000	97	92316	20.0	22.3	
86 2-Hexanone	43	6.884	6.884	0.000	97	239691	100.0	106.2	
87 Chlorodibromomethane	129	7.005	7.005	0.000	97	42486	20.0	20.1	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	108909	20.0	21.9	
89 Ethylene Dibromide	107	7.131	7.131	0.000	75	54946	20.0	21.9	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	86	416655	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	94	164750	20.0	22.1	
92 1,1,1,2-Tetrachloroethane	131	8.006	8.006	0.000	91	49669	20.0	21.4	
93 Ethylbenzene	106	8.064	8.064	0.000	98	89816	20.0	22.5	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	97	108585	20.0	22.5	
95 o-Xylene	106	8.840	8.840	0.000	94	104393	20.0	22.6	
96 Styrene	104	8.872	8.872	0.000	92	168147	20.0	23.0	
97 n-Butyl acrylate	73	8.924	8.924	0.000	95	40410	20.0	21.0	
98 Bromoform	173	9.102	9.102	0.000	97	25482	20.0	19.4	
99 Amyl acetate (mixed isomer	43	9.312	9.312	0.000	88	121120	20.0	20.6	
100 Isopropylbenzene	105	9.448	9.448	0.000	96	270163	20.0	22.7	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	154697	50.0	49.4	
102 Bromobenzene	156	9.847	9.847	0.000	94	68307	20.0	21.5	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	92	65534	20.0	22.5	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	89	20354	20.0	21.4	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.062	0.000	78	19371	20.0	20.1	
106 N-Propylbenzene	91	10.119	10.119	0.000	99	322425	20.0	22.6	
107 2-Chlorotoluene	91	10.193	10.193	0.000	96	186342	20.0	22.3	
108 4-Ethyltoluene	105	10.319	10.319	0.000	98	265242	20.0	22.3	
109 4-Chlorotoluene	91	10.382	10.382	0.000	98	182324	20.0	22.5	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	92	214975	20.0	22.6	
111 Butyl Methacrylate	87	10.712	10.712	0.000	94	66648	20.0	20.6	
112 tert-Butylbenzene	119	10.953	10.953	0.000	95	190210	20.0	22.4	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	220808	20.0	22.5	
113 sec-Butylbenzene	105	11.310	11.310	0.000	99	286411	20.0	22.8	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	96	126447	20.0	21.9	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.509	0.000	95	224867	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	92	125334	20.0	22.4	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	235201	20.0	23.3	
135 1,2,3-Trimethylbenzene	105	11.650	11.650	0.000	99	218819	20.0	22.4	
119 Benzyl chloride	91	11.755	11.755	0.000	98	94752	20.0	19.9	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	90	213159	20.0	22.7	
121 1,2-Dichlorobenzene	146	12.017	12.017	0.000	95	117362	20.0	22.2	
122 p-Diethylbenzene	119	12.065	12.065	0.000	92	126464	20.0	22.7	
123 n-Butylbenzene	92	12.091	12.091	0.000	97	123418	20.0	23.2	
124 1,2-Dibromo-3-Chloropropan	155	12.924	12.924	0.000	70	8838	20.0	19.8	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	96	199143	20.0	22.8	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	97	85815	20.0	21.8	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	90	75099	20.0	22.1	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	76	31814	20.0	21.5	
129 Naphthalene	128	13.942	13.942	0.000	99	189529	20.0	22.9	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	94	66793	20.0	22.1	
S 131 1,2-Dichloroethene, Total	100				0		40.0	45.3	
S 132 Xylenes, Total	100				0		40.0	45.1	
S 136 1,3-Dichloropropene, Total	1				0		20.0	43.8	
S 133 Total BTEX	1				0		100.0	111.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MIX I Hi_00087	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	2.00	Units: uL	
Ethanol mix_00013	Amount Added:	2.00	Units: uL	
GAS Hi_00244	Amount Added:	2.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:25:10 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04574.D

Injection Date: 13-Mar-2018 10:48:56 Instrument ID: CVOAMS15

Lims ID: STD20

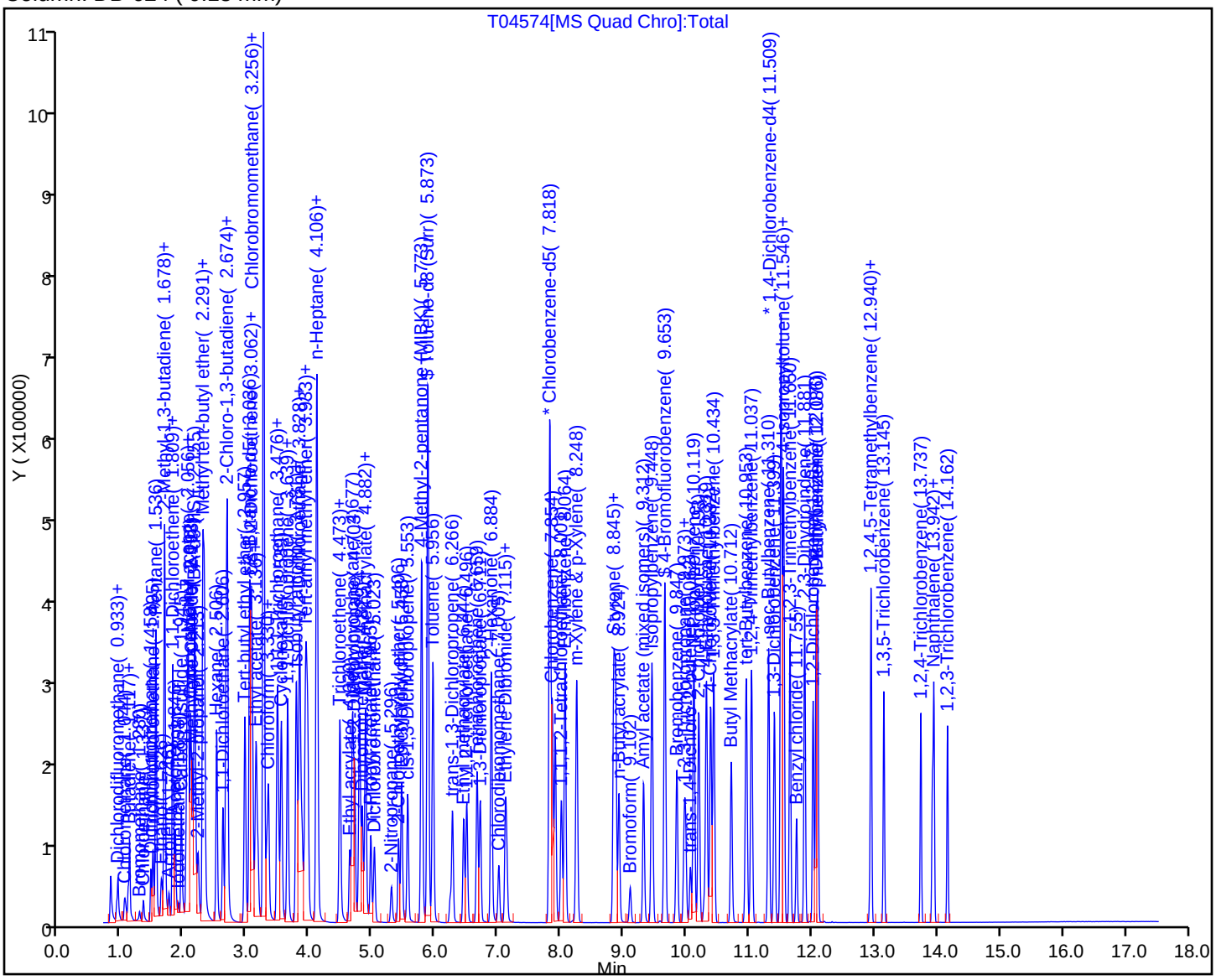
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

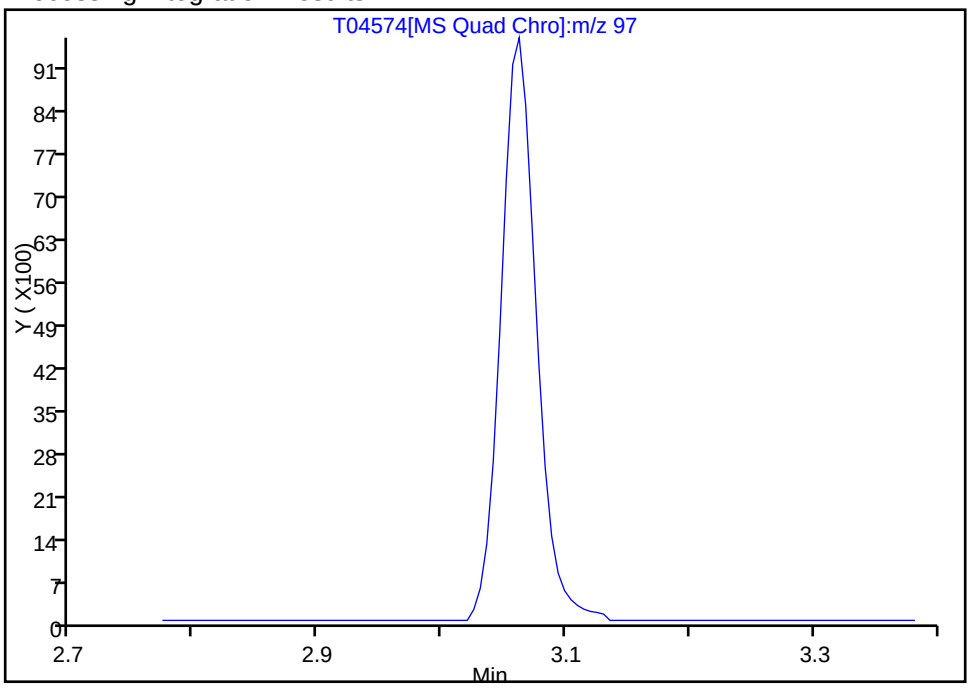
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04574.D
Injection Date: 13-Mar-2018 10:48:56 Instrument ID: CVOAMS15
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

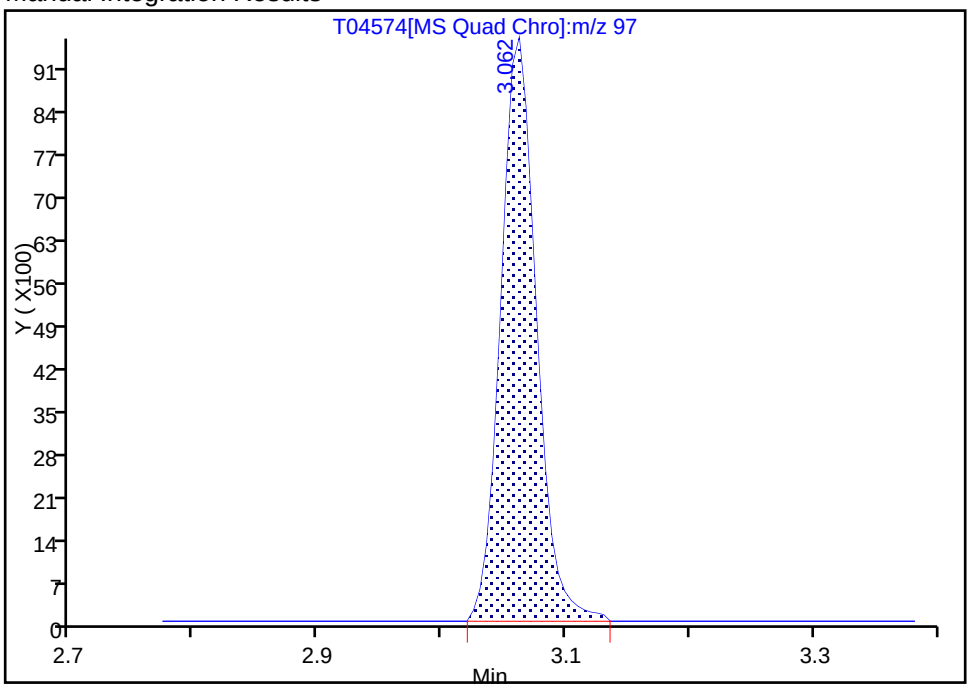
Not Detected
Expected RT: 3.06

Processing Integration Results



Manual Integration Results

RT: 3.06
Area: 18989
Amount: 22.373385
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:14:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 16-Mar-2018 13:25:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04575.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Mar-2018 11:14:25 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:25:29 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:10:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.912	0.913	-0.001	88	27002	50.0	48.1	
2 Dichlorodifluoromethane	85	0.933	0.933	0.000	89	132294	50.0	39.7	
3 Chloromethane	50	1.038	1.044	-0.006	89	110426	50.0	51.8	
4 Vinyl chloride	62	1.096	1.096	0.000	83	99797	50.0	53.3	
5 Butadiene	54	1.117	1.117	0.000	96	92388	50.0	46.8	
6 Bromomethane	94	1.274	1.280	-0.006	99	15511	50.0	39.3	
7 Chloroethane	64	1.337	1.342	-0.005	97	47802	50.0	53.3	
8 Dichlorofluoromethane	67	1.458	1.458	0.000	90	163682	50.0	55.2	
9 Trichlorofluoromethane	101	1.489	1.495	-0.005	88	177533	50.0	41.1	
10 Pentane	72	1.536	1.542	-0.006	95	44230	100.0	112.3	
11 Ethanol	46	1.631	1.626	0.005	99	81433	2000.0	2612.7	
13 1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	-0.001	81	119430	50.0	55.8	
12 Ethyl ether	59	1.673	1.673	-0.001	66	143268	50.0	55.7	
14 2-Methyl-1,3-butadiene	53	1.678	1.683	-0.005	87	141785	50.0	57.0	
15 Acrolein	56	1.746	1.746	0.000	97	52846	100.0	107.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	67	131055	50.0	57.9	
16 1,1-Dichloroethene	96	1.804	1.809	-0.005	87	139022	50.0	55.7	
18 Acetone	43	1.846	1.846	0.000	87	277836	250.0	230.7	
19 Iodomethane	142	1.898	1.898	0.000	96	79989	50.0	38.4	
20 Isopropyl alcohol	45	1.950	1.945	0.005	45	122480	500.0	532.0	
21 Carbon disulfide	76	1.940	1.945	-0.005	100	351549	50.0	55.7	
24 Acetonitrile	40	2.024	2.024	0.000	91	157613	500.0	535.1	
22 3-Chloro-1-propene	76	2.040	2.040	0.000	90	96761	50.0	57.6	
23 Methyl acetate	43	2.055	2.056	-0.001	98	710959	250.0	274.8	
25 Cyclopentene	67	2.092	2.092	0.000	96	350135	50.0	56.5	
26 Methylene Chloride	84	2.118	2.118	0.000	92	160163	50.0	53.0	
* 27 TBA-d9 (IS)	66	2.160	2.155	0.005	98	58901	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.213	2.213	0.000	99	197106	500.0	538.6	
29 Acrylonitrile	53	2.286	2.286	0.000	94	710756	500.0	562.5	
30 trans-1,2-Dichloroethene	96	2.307	2.307	0.000	83	151738	50.0	57.1	
31 Methyl tert-butyl ether	73	2.317	2.318	-0.001	97	396476	50.0	56.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	93	244400	50.0	58.7	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	301607	50.0	54.0	
34 Vinyl acetate	86	2.653	2.653	0.000	100	58445	100.0	115.2	
35 Isopropyl ether	45	2.674	2.674	0.000	89	591435	50.0	56.5	
36 2-Chloro-1,3-butadiene	88	2.679	2.679	0.000	67	145207	50.0	58.1	
37 Tert-butyl ethyl ether	59	2.957	2.957	0.000	88	533108	50.0	54.9	
* 38 2-Butanone-d5	46	3.030	3.031	-0.001	99	442013	250.0	250.0	a
39 2,2-Dichloropropane	97	3.062	3.062	0.000	67	49011	50.0	57.4	
40 cis-1,2-Dichloroethene	96	3.062	3.062	0.000	86	174079	50.0	55.3	
41 2-Butanone (MEK)	43	3.083	3.083	0.000	99	444523	250.0	258.3	
42 Propionitrile	54	3.130	3.125	0.005	98	289862	500.0	526.9	
43 Ethyl acetate	70	3.141	3.141	0.000	99	34875	100.0	113.0	
44 Methyl acrylate	55	3.167	3.167	0.000	94	188106	50.0	51.9	
45 Methacrylonitrile	67	3.256	3.256	0.000	96	646752	500.0	539.5	
46 Chlorobromomethane	128	3.261	3.261	0.000	42	70325	50.0	55.6	
47 Tetrahydrofuran	72	3.308	3.309	-0.001	86	42675	100.0	107.6	
48 Chloroform	83	3.335	3.335	0.000	92	248478	50.0	54.4	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	124455	50.0	50.7	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	93	206905	50.0	54.9	
51 Cyclohexane	84	3.539	3.539	0.000	95	214441	50.0	57.5	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	90	195177	50.0	56.9	
52 Carbon tetrachloride	117	3.639	3.639	0.000	75	158177	50.0	56.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.775	0.000	86	140332	50.0	50.2	
54 Isobutyl alcohol	43	3.791	3.791	0.000	46	220568	1250.0	1503.2	
56 Benzene	78	3.827	3.828	-0.001	98	595722	50.0	52.9	
57 1,2-Dichloroethane	62	3.843	3.843	0.000	58	203988	50.0	52.5	
58 Isooctane	57	3.922	3.922	0.000	99	562945	50.0	56.5	
59 Isopropyl acetate	61	3.938	3.938	0.000	93	69546	50.0	57.6	
60 Tert-amyl methyl ether	73	3.958	3.959	-0.001	81	408309	50.0	56.2	
* 61 Fluorobenzene	96	4.100	4.100	0.000	97	488738	50.0	50.0	
62 n-Heptane	43	4.116	4.116	0.000	76	241418	50.0	56.6	
63 n-Butanol	56	4.462	4.467	-0.005	89	135448	1250.0	1501.2	
64 Trichloroethene	95	4.472	4.473	-0.001	94	159109	50.0	55.9	
65 Ethyl acrylate	55	4.630	4.630	0.000	98	240953	50.0	51.2	
66 Methylcyclohexane	83	4.677	4.672	0.005	91	250516	50.0	58.2	
67 1,2-Dichloropropane	63	4.708	4.709	-0.001	88	175314	50.0	55.3	
69 Dibromomethane	93	4.829	4.829	0.000	96	90179	50.0	54.3	
* 68 1,4-Dioxane-d8	96	4.829	4.829	0.000	21	39956	1000.0	1000.0	
71 Methyl methacrylate	100	4.881	4.882	-0.001	96	82167	100.0	112.8	
70 1,4-Dioxane	88	4.881	4.882	-0.001	31	38877	1000.0	1105.5	
72 n-Propyl acetate	43	4.965	4.965	0.000	99	277805	50.0	54.3	
73 Dichlorobromomethane	83	5.023	5.023	0.000	95	162618	50.0	55.4	
74 2-Nitropropane	41	5.295	5.296	-0.001	95	75271	100.0	107.4	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	95	121742	50.0	54.0	
76 Epichlorohydrin	57	5.458	5.458	0.000	99	427685	1000.0	1219.4	
77 cis-1,3-Dichloropropene	75	5.552	5.553	-0.001	91	237467	50.0	57.1	
78 4-Methyl-2-pentanone (MIBK	43	5.778	5.773	0.005	97	902579	250.0	288.1	
$ 79 Toluene-d8 (Surr)	98	5.877	5.878	-0.001	98	498841	50.0	50.4	
80 Toluene	91	5.956	5.956	0.000	93	640354	50.0	55.5	
81 trans-1,3-Dichloropropene	75	6.265	6.266	-0.001	97	205601	50.0	57.1	
82 Ethyl methacrylate	69	6.449	6.449	0.000	94	181761	50.0	57.7	
83 1,1,2-Trichloroethane	83	6.496	6.496	0.000	92	111878	50.0	55.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.664	6.659	0.005	93	174077	50.0	55.2	
85 1,3-Dichloropropane	76	6.711	6.711	0.000	98	231517	50.0	54.5	
86 2-Hexanone	43	6.889	6.884	0.005	97	624127	250.0	279.8	
87 Chlorodibromomethane	129	7.005	7.005	0.000	97	121722	50.0	54.5	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	284954	50.0	55.8	
89 Ethylene Dibromide	107	7.136	7.131	0.005	98	141648	50.0	54.9	
* 90 Chlorobenzene-d5	117	7.817	7.818	-0.001	85	428021	50.0	50.0	
91 Chlorobenzene	112	7.859	7.860	-0.001	94	423049	50.0	55.2	
92 1,1,1,2-Tetrachloroethane	131	8.006	8.006	0.000	92	135952	50.0	57.1	
93 Ethylbenzene	106	8.064	8.064	0.000	98	229450	50.0	56.1	
94 m-Xylene & p-Xylene	106	8.247	8.248	-0.001	97	275928	50.0	55.6	
95 o-Xylene	106	8.840	8.840	0.000	94	266578	50.0	56.3	
96 Styrene	104	8.871	8.872	-0.001	92	435664	50.0	58.0	
97 n-Butyl acrylate	73	8.924	8.924	0.000	95	106529	50.0	53.3	
98 Bromoform	173	9.102	9.102	0.000	98	77045	50.0	54.4	
99 Amyl acetate (mixed isomer	43	9.317	9.312	0.005	88	321851	50.0	52.7	
100 Isopropylbenzene	105	9.448	9.448	0.000	96	684694	50.0	56.0	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	-0.001	0	158625	50.0	49.3	
102 Bromobenzene	156	9.847	9.847	-0.001	93	177216	50.0	54.3	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	93	166792	50.0	55.7	
104 1,2,3-Trichloropropane	110	9.988	9.983	0.005	92	53880	50.0	55.2	
105 trans-1,4-Dichloro-2-buten	53	10.061	10.062	-0.001	83	54272	50.0	55.0	
106 N-Propylbenzene	91	10.119	10.119	0.000	99	829845	50.0	56.7	
107 2-Chlorotoluene	91	10.198	10.193	0.005	96	469749	50.0	54.8	
108 4-Ethyltoluene	105	10.318	10.319	-0.001	98	680487	50.0	55.7	
109 4-Chlorotoluene	91	10.387	10.382	0.005	97	462713	50.0	55.6	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	92	552828	50.0	56.6	
111 Butyl Methacrylate	87	10.712	10.712	0.000	94	182670	50.0	54.1	
112 tert-Butylbenzene	119	10.953	10.953	0.000	92	485566	50.0	55.6	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	98	568923	50.0	56.5	
113 sec-Butylbenzene	105	11.309	11.310	-0.001	99	733171	50.0	56.8	
114 1,3-Dichlorobenzene	146	11.404	11.399	0.005	96	325282	50.0	54.9	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.509	0.000	95	230855	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	94	320504	50.0	55.9	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	602516	50.0	58.0	
135 1,2,3-Trimethylbenzene	105	11.650	11.650	0.000	99	562050	50.0	55.9	
119 Benzyl chloride	91	11.755	11.755	0.000	98	274135	50.0	54.7	
120 2,3-Dihydroindene	117	11.886	11.881	0.005	90	548014	50.0	56.8	
121 1,2-Dichlorobenzene	146	12.017	12.017	0.000	95	298164	50.0	54.9	
122 p-Diethylbenzene	119	12.064	12.065	-0.001	93	327295	50.0	57.3	
123 n-Butylbenzene	92	12.091	12.091	0.000	96	314001	50.0	57.4	
124 1,2-Dibromo-3-Chloropropan	155	12.924	12.924	0.000	79	25359	50.0	53.6	
125 1,2,4,5-Tetramethylbenzene	119	12.945	12.940	0.005	97	529994	50.0	59.0	
126 1,3,5-Trichlorobenzene	180	13.150	13.145	0.005	97	225331	50.0	55.7	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	197773	50.0	56.7	
128 Hexachlorobutadiene	225	13.920	13.921	-0.001	77	85872	50.0	56.6	
129 Naphthalene	128	13.941	13.942	-0.001	99	497768	50.0	58.6	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	94	174639	50.0	56.2	
S 131 1,2-Dichloroethene, Total	100				0		100.0	112.4	
S 132 Xylenes, Total	100				0		100.0	111.9	
S 133 Total BTEX	1				0		250.0	276.3	
S 136 1,3-Dichloropropene, Total	1				0		50.0	114.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 Total 1,2-dichloroethene	1				0			112.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MIX I Hi_00087	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	5.00	Units: uL	
Ethanol mix_00013	Amount Added:	5.00	Units: uL	
GAS Hi_00244	Amount Added:	5.00	Units: uL	
ACROLEIN W_00074	Amount Added:	10.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:25:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04575.D

Injection Date: 13-Mar-2018 11:14:25 Instrument ID: CVOAMS15

Lims ID: STD50

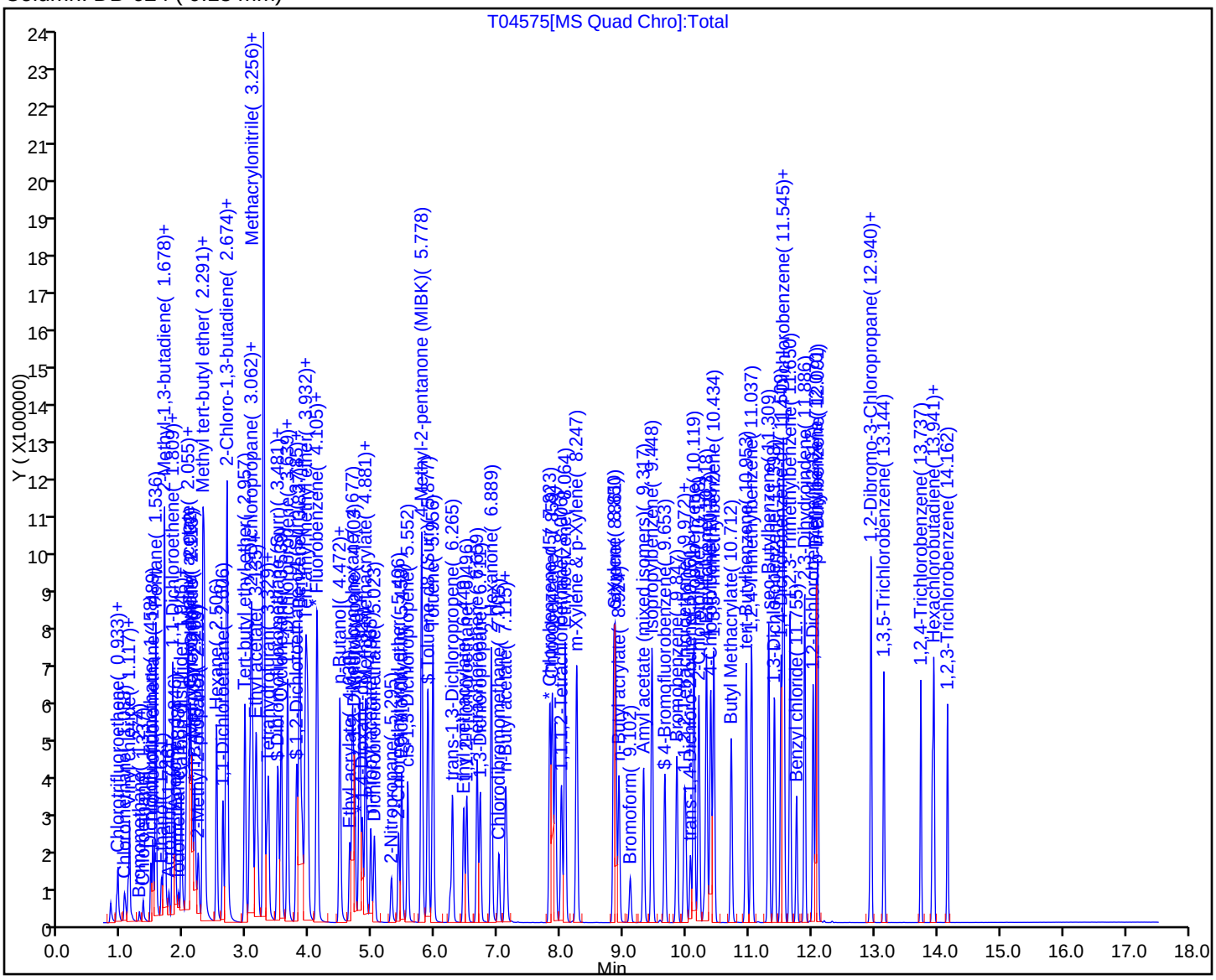
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

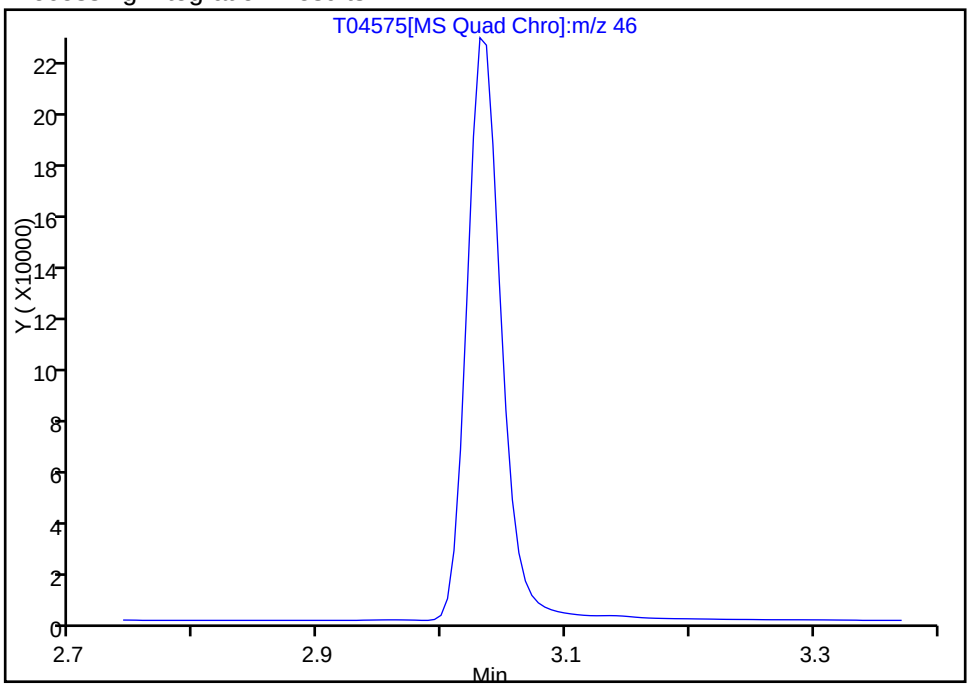
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04575.D		
Injection Date:	13-Mar-2018 11:14:25	Instrument ID:	CVOAMS15
Lims ID:	STD50		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

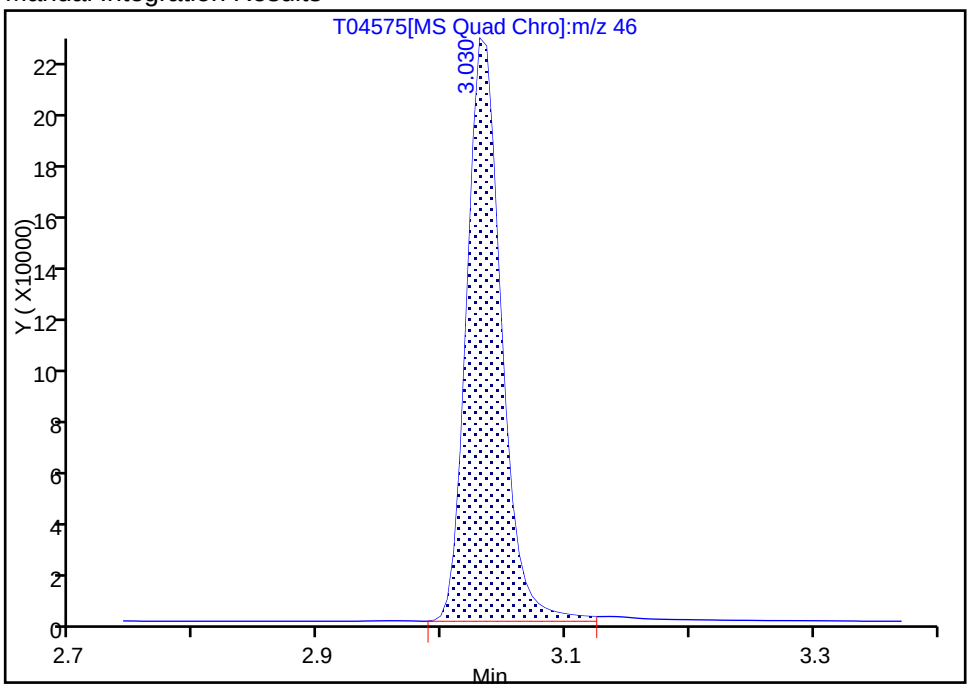
Processing Integration Results

Not Detected
Expected RT: 3.03



Manual Integration Results

RT: 3.03
Area: 442013
Amount: 250.0000
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:23:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 13-Mar-2018 11:39:53 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:25:49 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:12:21

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.913	0.913	0.000	88	115634	200.0	201.5	
2	Dichlorodifluoromethane	85	0.934	0.933	0.001	89	614765	200.0	206.5	
3	Chloromethane	50	1.039	1.044	-0.005	89	498144	200.0	232.9	
4	Vinyl chloride	62	1.096	1.096	0.000	84	431603	200.0	229.8	
5	Butadiene	54	1.117	1.117	0.000	96	423456	200.0	213.2	
6	Bromomethane	94	1.280	1.280	0.000	99	87131	200.0	205.0	
7	Chloroethane	64	1.337	1.342	-0.005	97	175240	200.0	189.0	
8	Dichlorofluoromethane	67	1.458	1.458	0.000	91	652256	200.0	219.2	
9	Trichlorofluoromethane	101	1.489	1.495	-0.005	88	824638	200.0	205.1	
10	Pentane	72	1.537	1.542	-0.005	95	164406	400.0	403.8	
11	Ethanol	46	1.636	1.626	0.010	98	167256	8000.0	4959.5	a
12	Ethyl ether	59	1.673	1.673	0.000	69	470264	200.0	182.3	
13	1,2-Dichloro-1,1,2-trifluo	117	1.678	1.673	0.005	76	436321	200.0	203.3	
14	2-Methyl-1,3-butadiene	53	1.678	1.683	-0.005	91	541795	200.0	217.2	
15	Acrolein	56	1.752	1.746	0.006	97	111658	200.0	209.7	
16	1,1-Dichloroethene	96	1.804	1.809	-0.005	87	490320	200.0	196.0	
17	1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	73	462948	200.0	204.0	
18	Acetone	43	1.851	1.846	0.005	87	1356910	1000.0	1089.6	
19	Iodomethane	142	1.898	1.898	0.000	96	413098	200.0	206.7	
21	Carbon disulfide	76	1.940	1.945	-0.005	100	1297734	200.0	205.2	
20	Isopropyl alcohol	45	1.956	1.945	0.011	53	503559	2000.0	2021.4	
24	Acetonitrile	40	2.024	2.024	0.000	92	569656	2000.0	1870.2	
22	3-Chloro-1-propene	76	2.040	2.040	0.000	91	333356	200.0	198.0	
23	Methyl acetate	43	2.061	2.056	0.005	99	2575072	1000.0	992.5	
25	Cyclopentene	67	2.092	2.092	0.000	96	1310157	200.0	210.8	
26	Methylene Chloride	84	2.119	2.118	0.001	92	576951	200.0	190.3	
* 27	TBA-d9 (IS)	66	2.166	2.155	0.011	98	63731	1000.0	1000.0	
28	2-Methyl-2-propanol	59	2.218	2.213	0.005	99	822358	2000.0	2076.6	
29	Acrylonitrile	53	2.292	2.286	0.006	93	2335449	2000.0	1843.4	
30	trans-1,2-Dichloroethene	96	2.307	2.307	0.000	84	472809	200.0	177.4	
31	Methyl tert-butyl ether	73	2.318	2.318	0.000	96	1384858	200.0	197.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.507	2.506	0.001	93	837038	200.0	200.6	
33 1,1-Dichloroethane	63	2.611	2.606	0.005	94	1112836	200.0	198.8	
34 Vinyl acetate	86	2.659	2.653	0.006	100	173064	400.0	329.8	
35 Isopropyl ether	45	2.674	2.674	0.000	88	2052387	200.0	195.4	
36 2-Chloro-1,3-butadiene	88	2.680	2.679	0.001	68	501443	200.0	200.2	
37 Tert-butyl ethyl ether	59	2.958	2.957	0.001	88	2024775	200.0	207.9	
* 38 2-Butanone-d5	46	3.036	3.031	0.005	97	457104	250.0	250.0	a
40 cis-1,2-Dichloroethene	96	3.062	3.062	0.000	86	592973	200.0	187.9	
39 2,2-Dichloropropane	97	3.062	3.062	0.000	72	175901	200.0	205.4	
41 2-Butanone (MEK)	43	3.089	3.083	0.006	99	1814727	1000.0	1019.6	
42 Propionitrile	54	3.136	3.125	0.011	92	1072086	2000.0	1801.2	a
43 Ethyl acetate	70	3.146	3.141	0.005	99	128298	400.0	402.1	
44 Methyl acrylate	55	3.172	3.167	0.005	95	752965	200.0	207.1	M
45 Methacrylonitrile	67	3.267	3.256	0.011	97	1913449	2000.0	1591.7	
46 Chlorobromomethane	128	3.262	3.261	0.001	43	212332	200.0	167.5	
47 Tetrahydrofuran	72	3.314	3.309	0.005	89	158111	400.0	385.3	
48 Chloroform	83	3.335	3.335	0.000	92	901889	200.0	196.8	
$ 49 Dibromofluoromethane (Surr	113	3.477	3.471	0.006	67	125546	50.0	51.0	
50 1,1,1-Trichloroethane	97	3.492	3.487	0.005	93	773553	200.0	204.8	
51 Cyclohexane	84	3.539	3.539	0.000	95	734500	200.0	196.6	
52 Carbon tetrachloride	117	3.639	3.639	0.000	86	618252	200.0	221.7	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	89	659101	200.0	191.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.775	0.000	85	142222	50.0	50.7	
54 Isobutyl alcohol	43	3.796	3.791	0.005	26	901797	5000.0	5679.9	a
56 Benzene	78	3.828	3.828	0.000	98	1964019	200.0	164.8	
57 1,2-Dichloroethane	62	3.849	3.843	0.006	73	743081	200.0	190.6	
58 Isooctane	57	3.922	3.922	0.000	99	2128922	200.0	213.2	
59 Isopropyl acetate	61	3.938	3.938	0.000	91	252569	200.0	208.6	
60 Tert-amyl methyl ether	73	3.964	3.959	0.005	84	1502631	200.0	206.3	
* 61 Fluorobenzene	96	4.101	4.100	0.000	95	490079	50.0	50.0	
62 n-Heptane	43	4.116	4.116	0.000	95	868557	200.0	203.2	
63 n-Butanol	56	4.468	4.467	0.001	89	572986	5000.0	5869.1	
64 Trichloroethene	95	4.478	4.473	0.005	93	559027	200.0	195.8	
65 Ethyl acrylate	55	4.635	4.630	0.005	98	1021372	200.0	215.0	
66 Methylcyclohexane	83	4.677	4.672	0.005	91	864165	200.0	200.1	
67 1,2-Dichloropropane	63	4.709	4.709	0.000	86	620147	200.0	195.1	
* 68 1,4-Dioxane-d8	96	4.835	4.829	0.006	16	41562	1000.0	1000.0	
69 Dibromomethane	93	4.835	4.829	0.006	94	332573	200.0	199.6	
70 1,4-Dioxane	88	4.892	4.882	0.010	31	145370	4000.0	3974.0	
71 Methyl methacrylate	100	4.887	4.882	0.005	96	313382	400.0	429.0	
72 n-Propyl acetate	43	4.971	4.965	0.006	99	1112722	200.0	216.8	
73 Dichlorobromomethane	83	5.023	5.023	0.000	96	657051	200.0	223.3	
74 2-Nitropropane	41	5.296	5.296	0.000	95	352195	400.0	430.4	
75 2-Chloroethyl vinyl ether	63	5.411	5.406	0.005	95	485208	200.0	214.8	
76 Epichlorohydrin	57	5.464	5.458	0.006	99	1444199	4000.0	3981.8	
77 cis-1,3-Dichloropropene	75	5.558	5.553	0.005	91	881061	200.0	200.4	
78 4-Methyl-2-pentanone (MIBK	43	5.784	5.773	0.011	98	3349756	1000.0	1033.9	
$ 79 Toluene-d8 (Surr)	98	5.878	5.878	0.000	99	509315	50.0	48.7	
80 Toluene	91	5.962	5.956	0.006	94	2233206	200.0	182.9	
81 trans-1,3-Dichloropropene	75	6.271	6.266	0.005	97	798863	200.0	209.7	
82 Ethyl methacrylate	69	6.449	6.449	0.000	94	698260	200.0	209.5	
83 1,1,2-Trichloroethane	83	6.497	6.496	0.001	92	412227	200.0	192.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.664	6.659	0.005	93	631239	200.0	189.1	
85 1,3-Dichloropropane	76	6.712	6.711	0.001	98	857659	200.0	190.8	
86 2-Hexanone	43	6.895	6.884	0.011	97	2527450	1000.0	1095.8	
87 Chlorodibromomethane	129	7.010	7.005	0.005	98	540285	200.0	210.8	
88 n-Butyl acetate	43	7.115	7.110	0.005	99	1154914	200.0	213.7	
89 Ethylene Dibromide	107	7.136	7.131	0.005	94	530763	200.0	194.6	
* 90 Chlorobenzene-d5	117	7.823	7.818	0.005	85	452834	50.0	50.0	
91 Chlorobenzene	112	7.865	7.860	0.005	95	1547029	200.0	190.7	
92 1,1,1,2-Tetrachloroethane	131	8.007	8.006	0.001	92	551527	200.0	218.9	
93 Ethylbenzene	106	8.070	8.064	0.006	98	820865	200.0	189.5	
94 m-Xylene & p-Xylene	106	8.253	8.248	0.005	97	986178	200.0	187.9	
95 o-Xylene	106	8.846	8.840	0.006	94	950113	200.0	189.6	
96 Styrene	104	8.877	8.872	0.005	92	1552969	200.0	195.4	
97 n-Butyl acrylate	73	8.924	8.924	0.000	95	433084	200.0	203.8	
98 Bromoform	173	9.102	9.102	0.000	98	370910	200.0	215.6	
99 Amyl acetate (mixed isomer	43	9.317	9.312	0.005	88	1325729	200.0	205.8	
100 Isopropylbenzene	105	9.454	9.448	0.006	96	2460057	200.0	190.0	
$ 101 4-Bromofluorobenzene	174	9.658	9.653	0.005	0	168016	50.0	49.4	
102 Bromobenzene	156	9.847	9.847	0.000	94	667402	200.0	195.1	
103 1,1,2,2-Tetrachloroethane	83	9.968	9.962	0.006	94	638098	200.0	203.2	
104 1,2,3-Trichloropropane	110	9.989	9.983	0.006	90	211891	200.0	207.1	
105 trans-1,4-Dichloro-2-buten	53	10.067	10.062	0.005	87	230380	200.0	222.6	
106 N-Propylbenzene	91	10.125	10.119	0.006	99	2910544	200.0	189.9	
107 2-Chlorotoluene	91	10.203	10.193	0.010	97	1712073	200.0	190.5	
108 4-Ethyltoluene	105	10.324	10.319	0.005	98	2594081	200.0	202.6	
109 4-Chlorotoluene	91	10.392	10.382	0.010	98	1663068	200.0	190.6	
110 1,3,5-Trimethylbenzene	105	10.439	10.434	0.005	92	1991330	200.0	194.5	
111 Butyl Methacrylate	87	10.717	10.712	0.005	94	746813	200.0	209.4	
112 tert-Butylbenzene	119	10.958	10.953	0.005	92	1779170	200.0	194.5	
118 1,2,4-Trimethylbenzene	105	11.042	11.037	0.005	98	2072812	200.0	196.4	
113 sec-Butylbenzene	105	11.315	11.310	0.005	99	2616131	200.0	193.6	
114 1,3-Dichlorobenzene	146	11.404	11.399	0.005	95	1196304	200.0	192.6	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.509	0.000	95	241878	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	93	1091635	200.0	181.6	
117 4-Isopropyltoluene	119	11.556	11.551	0.005	94	2029968	200.0	186.6	
135 1,2,3-Trimethylbenzene	105	11.656	11.650	0.006	99	2128127	200.0	202.1	
119 Benzyl chloride	91	11.755	11.755	0.000	98	1210904	200.0	215.9	
120 2,3-Dihydroindene	117	11.887	11.881	0.006	90	2023418	200.0	200.1	
121 1,2-Dichlorobenzene	146	12.023	12.017	0.006	96	1103652	200.0	193.8	
122 p-Diethylbenzene	119	12.070	12.065	0.005	92	1202230	200.0	200.9	
123 n-Butylbenzene	92	12.096	12.091	0.005	97	1068301	200.0	186.5	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.924	0.001	89	116554	200.0	213.7	
125 1,2,4,5-Tetramethylbenzene	119	12.946	12.940	0.006	97	1959836	200.0	208.3	
126 1,3,5-Trichlorobenzene	180	13.150	13.145	0.005	97	847924	200.0	200.2	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	723651	200.0	197.9	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	76	310766	200.0	195.4	
129 Naphthalene	128	13.947	13.942	0.005	99	1817995	200.0	204.1	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	93	635906	200.0	195.3	
S 131 1,2-Dichloroethene, Total	100				0		400.0	365.3	
S 132 Xylenes, Total	100				0		400.0	377.5	
S 134 Total 1,2-dichloroethene	1				0			365.3	
S 136 1,3-Dichloropropene, Total	1				0		200.0	410.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 133 Total BTEX	1				0		1000.0	914.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MIX I Hi_00087	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	20.00	Units: uL	
Ethanol mix_00013	Amount Added:	20.00	Units: uL	
GAS Hi_00244	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	20.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:26:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D

Injection Date: 13-Mar-2018 11:39:53 Instrument ID: CVOAMS15

Lims ID: STD200

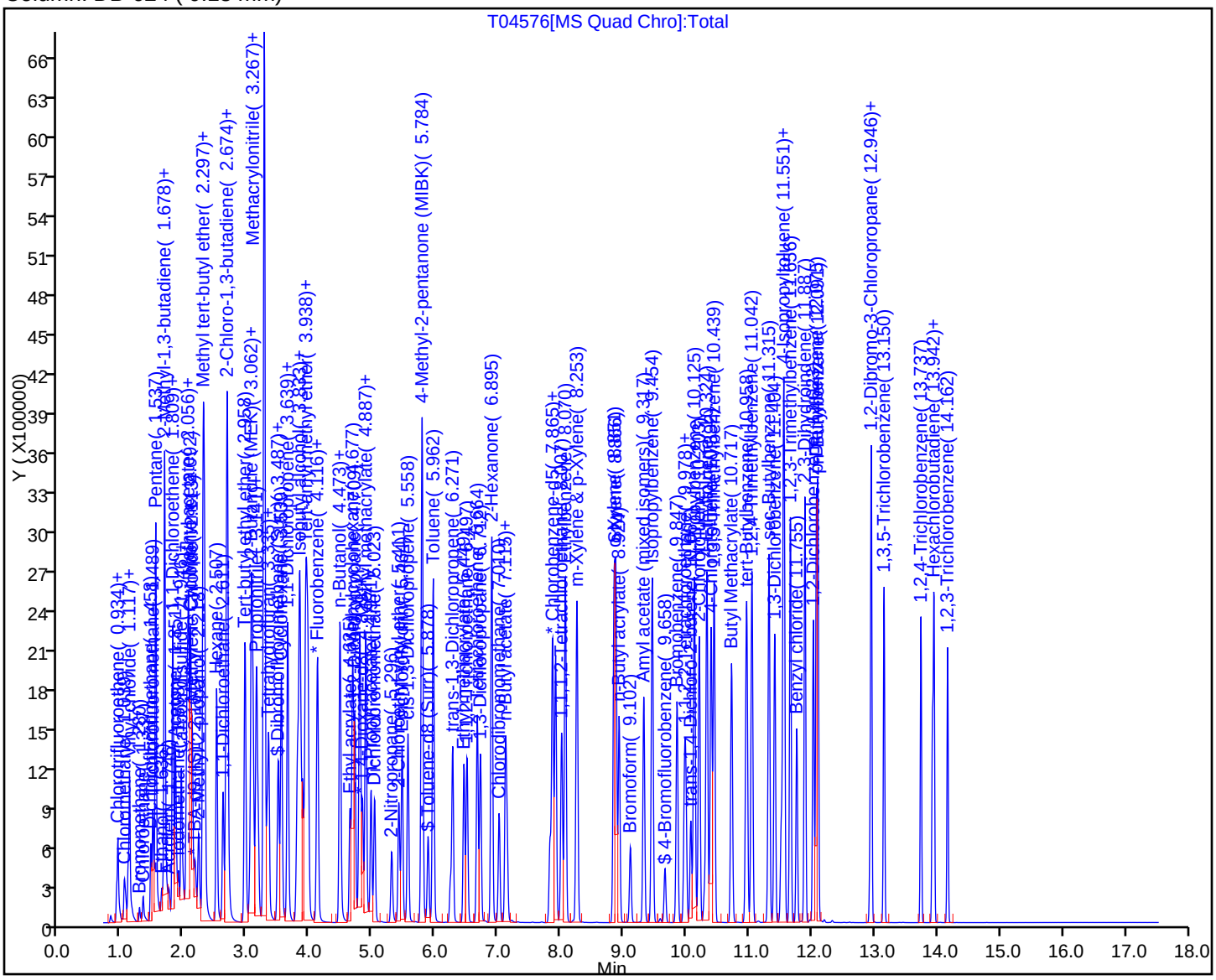
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

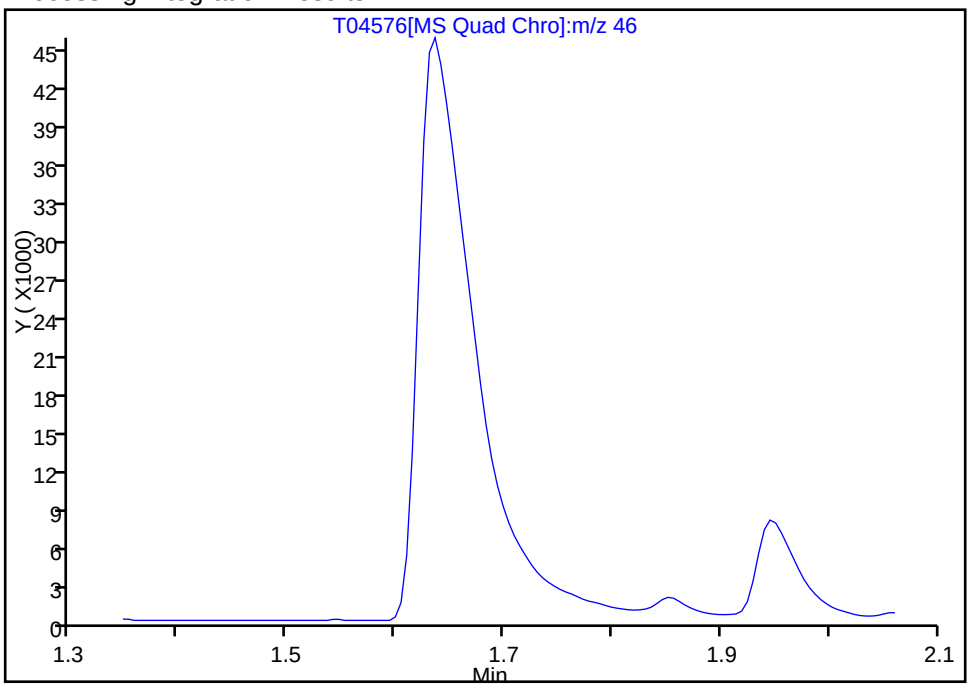
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D
Injection Date: 13-Mar-2018 11:39:53 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

11 Ethanol, CAS: 64-17-5

Signal: 1

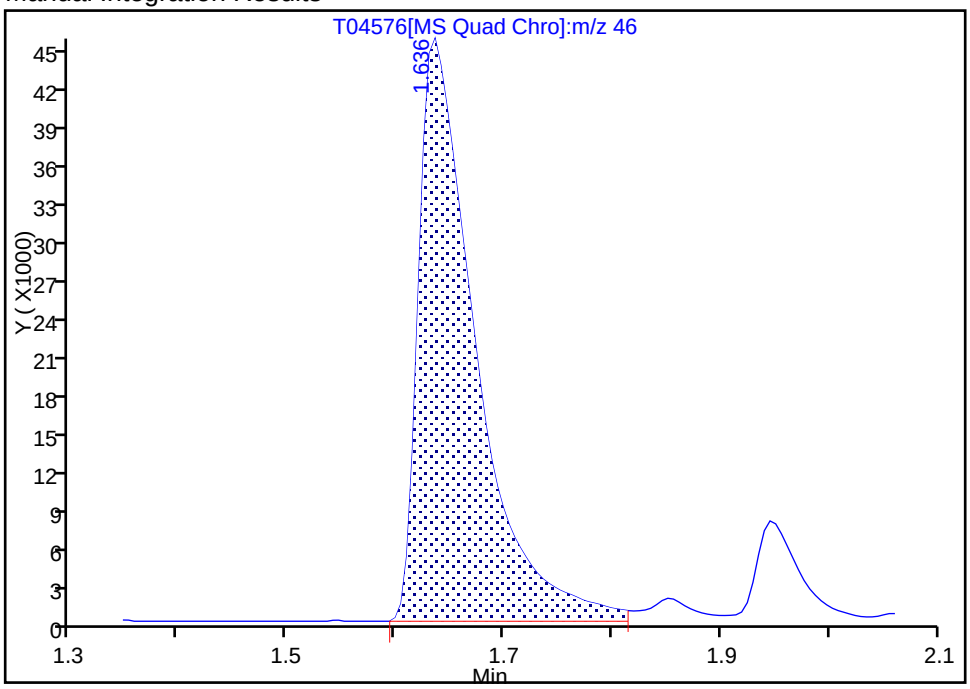
Not Detected
Expected RT: 1.63

Processing Integration Results



Manual Integration Results

RT: 1.64
Area: 167256
Amount: 4959.5463
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:23:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

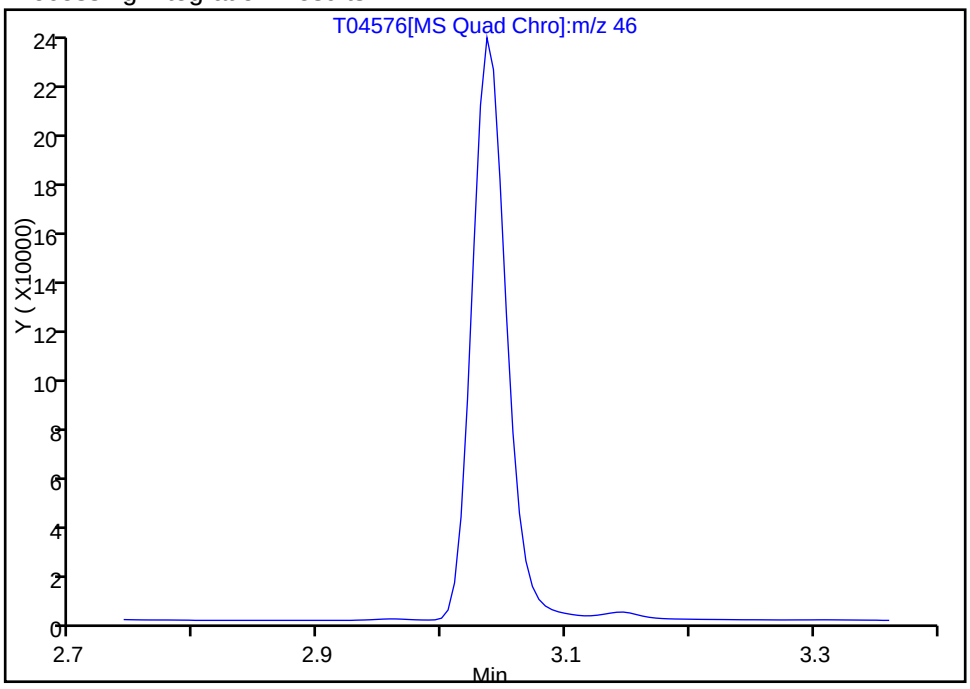
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D
Injection Date: 13-Mar-2018 11:39:53 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

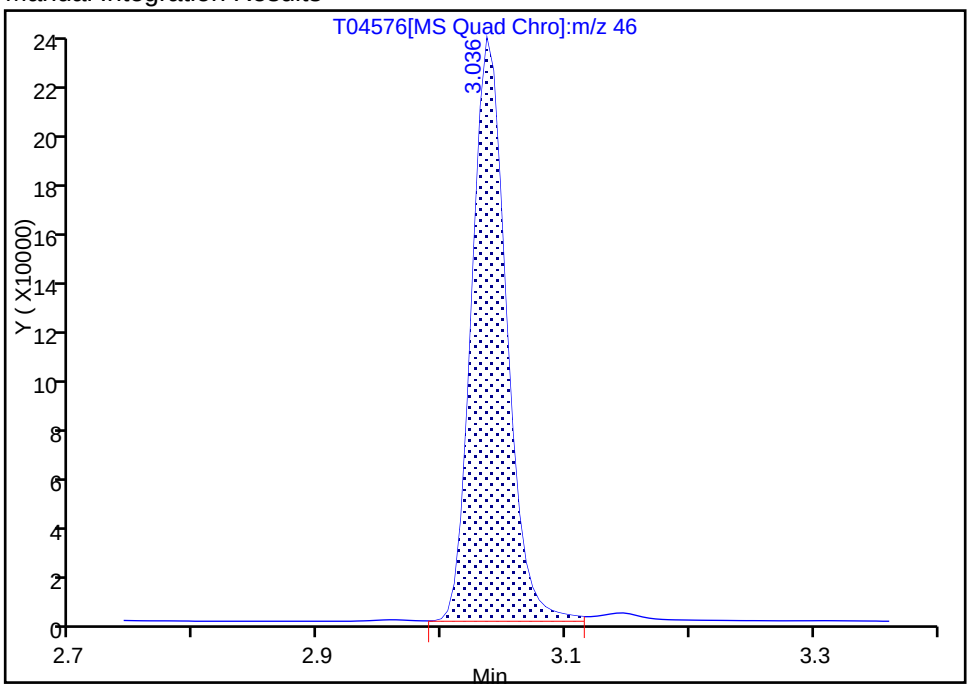
Not Detected
Expected RT: 3.03

Processing Integration Results



Manual Integration Results

RT: 3.04
Area: 457104
Amount: 250.0000
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:24:50
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

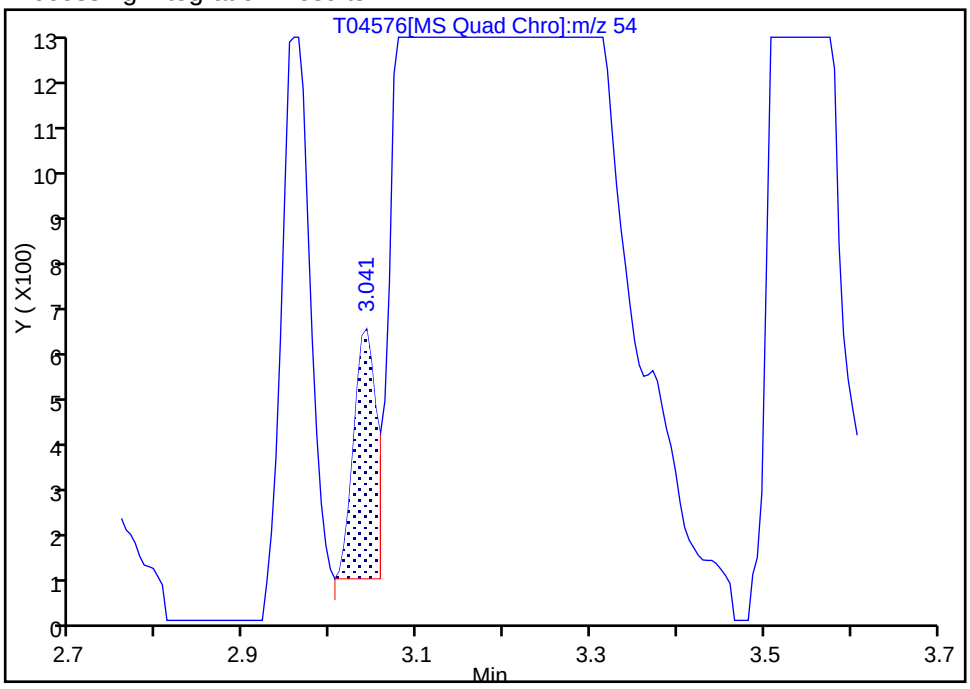
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D				
Injection Date:	13-Mar-2018 11:39:53	Instrument ID:	CVOAMS15		
Lims ID:	STD200				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

42 Propionitrile, CAS: 107-12-0

Signal: 1

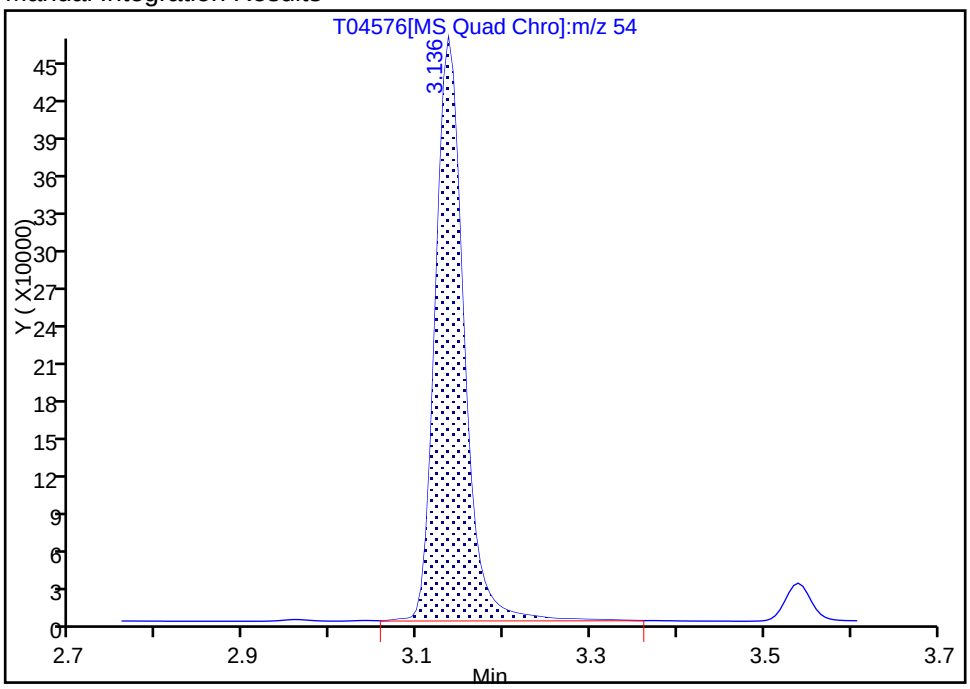
Processing Integration Results

RT: 3.04
Area: 977
Amount: 2.400739
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1072086
Amount: 1801.1535
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:23:55

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

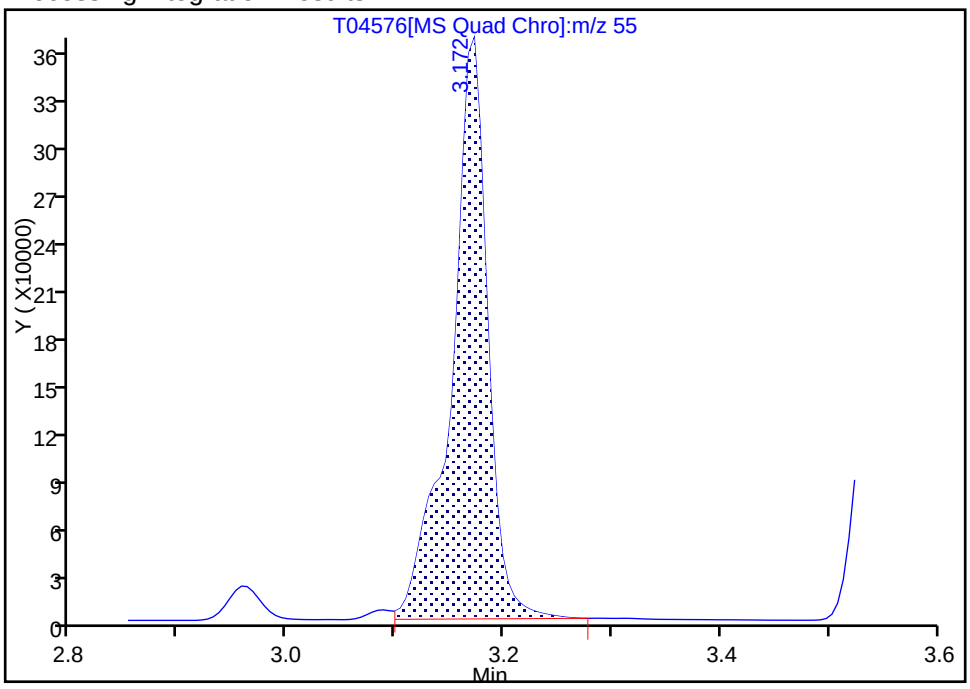
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D
Injection Date: 13-Mar-2018 11:39:53 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

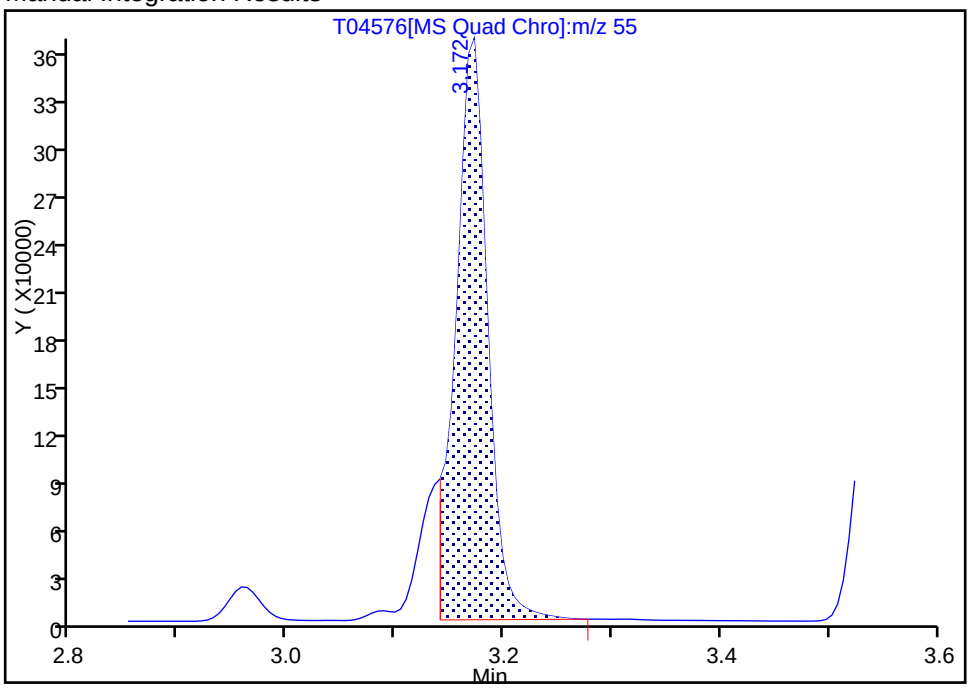
Processing Integration Results

RT: 3.17
Area: 853214
Amount: 229.3993
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 752965
Amount: 207.0975
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:24:03
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

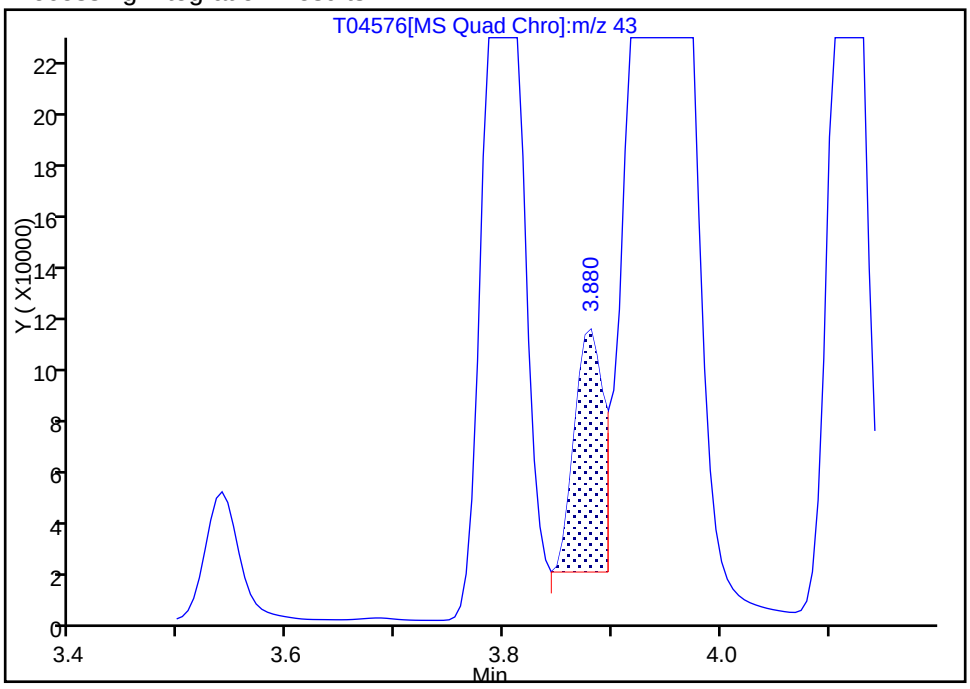
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04576.D				
Injection Date:	13-Mar-2018 11:39:53	Instrument ID:	CVOAMS15		
Lims ID:	STD200				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

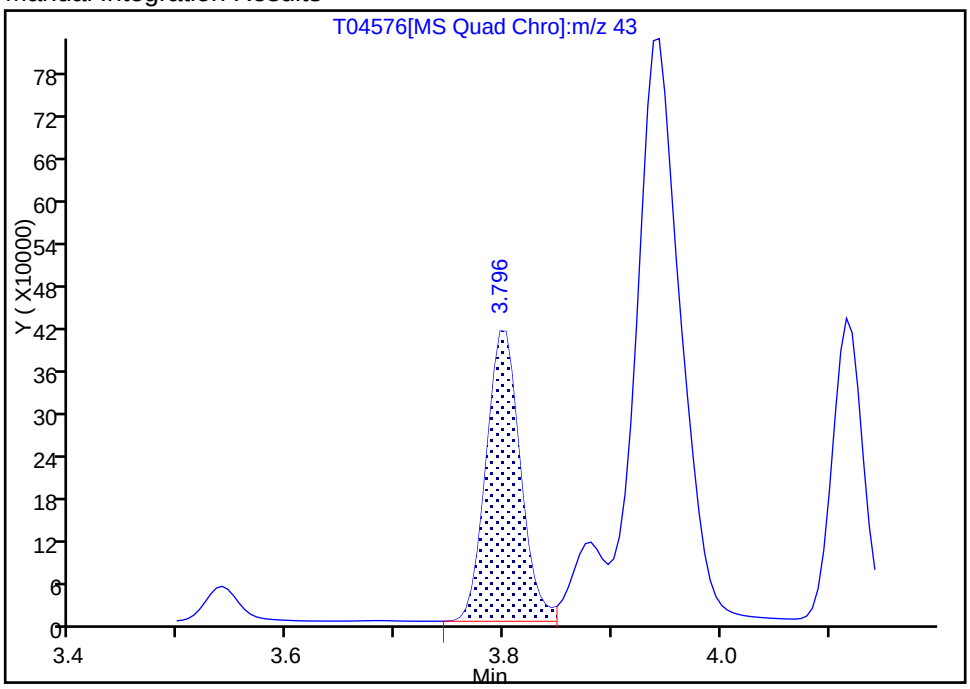
Processing Integration Results

RT: 3.88
Area: 179765
Amount: 1315.7139
Amount Units: ug/l



Manual Integration Results

RT: 3.80
Area: 901797
Amount: 5679.9152
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:24:10

Audit Action: Assigned Compound ID Audit Reason: Shouldering

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04577.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 13-Mar-2018 12:05:21 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:26:12 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:15:18

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.913	0.913	0.000	87	298083	500.0	499.8	
2	Dichlorodifluoromethane	85	0.934	0.933	0.001	88	1167451	500.0	498.2	
3	Chloromethane	50	1.033	1.044	-0.011	89	1545343	500.0	720.1	
4	Vinyl chloride	62	1.096	1.096	0.000	84	1156801	500.0	614.0	
5	Butadiene	54	1.117	1.117	0.000	97	987269	500.0	495.2	
6	Bromomethane	94	1.274	1.280	-0.006	99	205952	500.0	499.4	
7	Chloroethane	64	1.332	1.342	-0.010	100	247258	500.0	293.6	
8	Dichlorofluoromethane	67	1.453	1.458	-0.005	91	1542200	500.0	516.5	
9	Trichlorofluoromethane	101	1.484	1.495	-0.010	88	1732389	500.0	499.0	
10	Pentane	72	1.531	1.542	-0.011	95	328541	1000.0	888.3	
11	Ethanol	46	1.652	1.626	0.026	96	395892	20000	8789.4	
13	1,2-Dichloro-1,1,2-trifluo	117	1.678	1.673	0.005	75	892813	500.0	414.5	
12	Ethyl ether	59	1.673	1.673	0.000	63	1058746	500.0	409.0	
14	2-Methyl-1,3-butadiene	53	1.673	1.683	-0.010	93	1089855	500.0	435.5	
15	Acrolein	56	1.751	1.746	0.005	97	230281	400.0	323.9	
17	1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	65	972825	500.0	427.3	
16	1,1-Dichloroethene	96	1.804	1.809	-0.005	87	1154855	500.0	460.1	
18	Acetone	43	1.856	1.846	0.010	86	2893630	2500.0	2557.9	
19	Iodomethane	142	1.898	1.898	0.000	96	922704	500.0	498.9	
20	Isopropyl alcohol	45	1.977	1.945	0.032	99	1325825	5000.0	3984.8	
21	Carbon disulfide	76	1.940	1.945	-0.005	100	3220179	500.0	507.5	
24	Acetonitrile	40	2.035	2.024	0.011	85	1359822	5000.0	4914.8	
22	3-Chloro-1-propene	76	2.035	2.040	-0.005	90	804334	500.0	476.2	
23	Methyl acetate	43	2.066	2.056	0.010	99	5764476	2500.0	2214.4	
25	Cyclopentene	67	2.092	2.092	0.000	94	2833134	500.0	454.3	
26	Methylene Chloride	84	2.118	2.118	0.000	93	1393999	500.0	458.2	
* 27	TBA-d9 (IS)	66	2.181	2.155	0.026	97	85119	1000.0	1000.0	
28	2-Methyl-2-propanol	59	2.239	2.213	0.026	99	2270344	5000.0	4292.6	
29	Acrylonitrile	53	2.297	2.286	0.011	93	4762519	5000.0	3746.5	
30	trans-1,2-Dichloroethene	96	2.307	2.307	0.000	49	1002152	500.0	374.7	
31	Methyl tert-butyl ether	73	2.323	2.318	0.005	96	3101460	500.0	439.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	93	1839408	500.0	439.2	
33 1,1-Dichloroethane	63	2.611	2.606	0.005	94	2770518	500.0	493.3	
34 Vinyl acetate	86	2.659	2.653	0.006	100	454783	1000.0	954.0	
35 Isopropyl ether	45	2.679	2.674	0.005	88	4245000	500.0	402.8	
36 2-Chloro-1,3-butadiene	88	2.679	2.679	0.000	66	981238	500.0	390.5	
37 Tert-butyl ethyl ether	59	2.963	2.957	0.006	88	4845542	500.0	495.9	
* 38 2-Butanone-d5	46	3.047	3.031	0.015	52	415217	250.0	250.0	
39 2,2-Dichloropropane	97	3.062	3.062	0.000	80	403515	500.0	469.6	
40 cis-1,2-Dichloroethene	96	3.067	3.062	0.005	85	1365569	500.0	431.4	
41 2-Butanone (MEK)	43	3.099	3.083	0.016	99	4050443	2500.0	2505.2	
42 Propionitrile	54	3.157	3.125	0.032	77	2452765	5000.0	3085.3	a
43 Ethyl acetate	70	3.157	3.141	0.016	99	291517	1000.0	1005.7	
44 Methyl acrylate	55	3.178	3.167	0.011	91	2085578	500.0	571.7	
45 Methacrylonitrile	67	3.288	3.256	0.032	94	4007343	5000.0	3322.3	
46 Chlorobromomethane	128	3.267	3.261	0.006	52	528899	500.0	415.8	
47 Tetrahydrofuran	72	3.324	3.309	0.015	88	381473	1000.0	1023.4	
48 Chloroform	83	3.345	3.335	0.010	92	2305642	500.0	501.4	
$ 49 Dibromofluoromethane (Surr	113	3.482	3.471	0.011	37	122458	50.0	49.5	
50 1,1,1-Trichloroethane	97	3.492	3.487	0.005	93	1985362	500.0	523.9	
51 Cyclohexane	84	3.539	3.539	0.000	96	1621027	500.0	432.4	
53 1,1-Dichloropropene	75	3.644	3.639	0.005	87	1419021	500.0	411.1	
52 Carbon tetrachloride	117	3.639	3.639	0.000	88	1556705	500.0	556.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.781	3.775	0.006	85	135347	50.0	48.1	
54 Isobutyl alcohol	43	3.817	3.791	0.026	20	2112623	12500	9962.8	
56 Benzene	78	3.833	3.828	0.005	97	3994468	500.0	310.3	
57 1,2-Dichloroethane	62	3.854	3.843	0.011	83	1849225	500.0	472.8	
58 Isooctane	57	3.927	3.922	0.005	98	4548122	500.0	454.0	
59 Isopropyl acetate	61	3.948	3.938	0.010	94	555058	500.0	457.0	
60 Tert-amyl methyl ether	73	3.969	3.959	0.010	79	3447937	500.0	471.7	
* 61 Fluorobenzene	96	4.106	4.100	0.006	75	491725	50.0	50.0	
62 n-Heptane	43	4.121	4.116	0.005	96	2016105	500.0	470.2	
63 n-Butanol	56	4.494	4.467	0.027	90	1416441	12500	10863	
64 Trichloroethene	95	4.478	4.473	0.005	93	1290498	500.0	450.5	
65 Ethyl acrylate	55	4.640	4.630	0.010	99	2929263	500.0	613.7	
66 Methylcyclohexane	83	4.677	4.672	0.005	89	1929202	500.0	445.3	
67 1,2-Dichloropropane	63	4.714	4.709	0.005	85	1480945	500.0	464.4	
69 Dibromomethane	93	4.840	4.829	0.011	94	742563	500.0	444.2	
* 68 1,4-Dioxane-d8	96	4.840	4.829	0.011	15	43754	1000.0	1000.0	
71 Methyl methacrylate	100	4.892	4.882	0.010	94	744279	1000.0	1015.5	
70 1,4-Dioxane	88	4.908	4.882	0.026	32	368642	10000	9572.7	
72 n-Propyl acetate	43	4.976	4.965	0.011	99	2879139	500.0	559.2	
73 Dichlorobromomethane	83	5.034	5.023	0.011	95	1776074	500.0	601.7	
74 2-Nitropropane	41	5.306	5.296	0.010	95	984362	1000.0	975.2	
75 2-Chloroethyl vinyl ether	63	5.422	5.406	0.016	96	1293486	500.0	570.7	
76 Epichlorohydrin	57	5.479	5.458	0.021	99	3289880	10000	9985.6	
77 cis-1,3-Dichloropropene	75	5.563	5.553	0.010	92	2198355	500.0	463.0	
78 4-Methyl-2-pentanone (MIBK	43	5.799	5.773	0.026	97	7491925	2500.0	2545.6	
$ 79 Toluene-d8 (Surr)	98	5.883	5.878	0.005	98	547926	50.0	48.5	
80 Toluene	91	5.967	5.956	0.011	94	5182881	500.0	393.1	
81 trans-1,3-Dichloropropene	75	6.276	6.266	0.010	96	2089553	500.0	507.9	
82 Ethyl methacrylate	69	6.460	6.449	0.011	94	1813221	500.0	503.8	
83 1,1,2-Trichloroethane	83	6.507	6.496	0.011	90	1042182	500.0	451.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.670	6.659	0.011	93	1523537	500.0	422.6	
85 1,3-Dichloropropane	76	6.722	6.711	0.011	98	2134719	500.0	439.7	
86 2-Hexanone	43	6.905	6.884	0.021	97	5768832	2500.0	2753.4	
87 Chlorodibromomethane	129	7.021	7.005	0.016	98	1534065	500.0	488.7	
88 n-Butyl acetate	43	7.120	7.110	0.010	99	2900099	500.0	496.8	
89 Ethylene Dibromide	107	7.147	7.131	0.016	98	1345230	500.0	456.7	
* 90 Chlorobenzene-d5	117	7.828	7.818	0.010	85	489069	50.0	50.0	
91 Chlorobenzene	112	7.870	7.860	0.010	93	3759428	500.0	429.2	
92 1,1,1,2-Tetrachloroethane	131	8.017	8.006	0.011	92	1448620	500.0	532.4	
93 Ethylbenzene	106	8.075	8.064	0.011	98	1932117	500.0	413.1	
94 m-Xylene & p-Xylene	106	8.258	8.248	0.010	97	2377055	500.0	419.4	
95 o-Xylene	106	8.851	8.840	0.011	94	2266490	500.0	418.8	
96 Styrene	104	8.882	8.872	0.010	89	3558260	500.0	414.4	
97 n-Butyl acrylate	73	8.935	8.924	0.011	95	1101569	500.0	479.5	
98 Bromoform	173	9.113	9.102	0.011	98	1095996	500.0	486.9	
99 Amyl acetate (mixed isomer	43	9.328	9.312	0.016	88	3331957	500.0	497.8	
100 Isopropylbenzene	105	9.464	9.448	0.016	96	5769750	500.0	412.6	
$ 101 4-Bromofluorobenzene	174	9.663	9.653	0.010	0	183658	50.0	50.0	
102 Bromobenzene	156	9.857	9.847	0.010	92	1699871	500.0	478.9	
103 1,1,2,2-Tetrachloroethane	83	9.973	9.962	0.011	93	1603710	500.0	492.2	
104 1,2,3-Trichloropropane	110	9.999	9.983	0.016	90	551043	500.0	519.0	
105 trans-1,4-Dichloro-2-buten	53	10.078	10.062	0.016	88	631537	500.0	588.2	
106 N-Propylbenzene	91	10.135	10.119	0.016	99	6740693	500.0	423.9	
107 2-Chlorotoluene	91	10.214	10.193	0.021	97	4045526	500.0	433.8	
108 4-Ethyltoluene	105	10.334	10.319	0.015	97	5930904	500.0	446.4	
109 4-Chlorotoluene	91	10.403	10.382	0.021	98	3779535	500.0	417.5	
110 1,3,5-Trimethylbenzene	105	10.450	10.434	0.016	92	4542062	500.0	427.6	
111 Butyl Methacrylate	87	10.728	10.712	0.016	95	1827433	500.0	493.1	
112 tert-Butylbenzene	119	10.969	10.953	0.016	91	4228178	500.0	445.4	
118 1,2,4-Trimethylbenzene	105	11.053	11.037	0.016	98	4818166	500.0	439.9	
113 sec-Butylbenzene	105	11.325	11.310	0.015	98	5908672	500.0	421.3	
114 1,3-Dichlorobenzene	146	11.415	11.399	0.016	94	2830767	500.0	439.1	
* 115 1,4-Dichlorobenzene-d4	152	11.514	11.509	0.005	95	250988	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.551	11.540	0.011	93	2359791	500.0	378.4	
117 4-Isopropyltoluene	119	11.567	11.551	0.016	94	4317982	500.0	382.6	
135 1,2,3-Trimethylbenzene	105	11.666	11.650	0.016	99	4753653	500.0	435.1	
119 Benzyl chloride	91	11.766	11.755	0.011	98	3090570	500.0	483.8	
120 2,3-Dihydroindene	117	11.897	11.881	0.016	90	4453607	500.0	424.5	
121 1,2-Dichlorobenzene	146	12.028	12.017	0.011	94	2557590	500.0	432.8	
122 p-Diethylbenzene	119	12.075	12.065	0.010	92	2643698	500.0	425.8	
123 n-Butylbenzene	92	12.101	12.091	0.010	95	2275109	500.0	382.7	
124 1,2-Dibromo-3-Chloropropan	155	12.930	12.924	0.006	90	316258	500.0	487.4	
125 1,2,4,5-Tetramethylbenzene	119	12.951	12.940	0.011	96	4207391	500.0	430.9	
126 1,3,5-Trichlorobenzene	180	13.155	13.145	0.010	96	1837863	500.0	418.2	
127 1,2,4-Trichlorobenzene	180	13.742	13.737	0.005	94	1604842	500.0	422.9	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	75	714853	500.0	433.3	
129 Naphthalene	128	13.947	13.942	0.005	98	3995384	500.0	432.3	
130 1,2,3-Trichlorobenzene	180	14.167	14.162	0.005	93	1436751	500.0	425.2	
S 131 1,2-Dichloroethene, Total	100				0		1000.0	806.1	
S 132 Xylenes, Total	100				0		1000.0	838.2	
S 133 Total BTEX	1				0		2500.0	1954.6	
S 136 1,3-Dichloropropene, Total	1				0		500.0	970.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 Total 1,2-dichloroethene	1				0			806.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MIX I Hi_00087	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	50.00	Units: uL	
Ethanol mix_00013	Amount Added:	50.00	Units: uL	
GAS Hi_00244	Amount Added:	50.00	Units: uL	
ACROLEIN W_00074	Amount Added:	40.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:26:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04577.D

Injection Date: 13-Mar-2018 12:05:21 Instrument ID: CVOAMS15

Lims ID: STD500

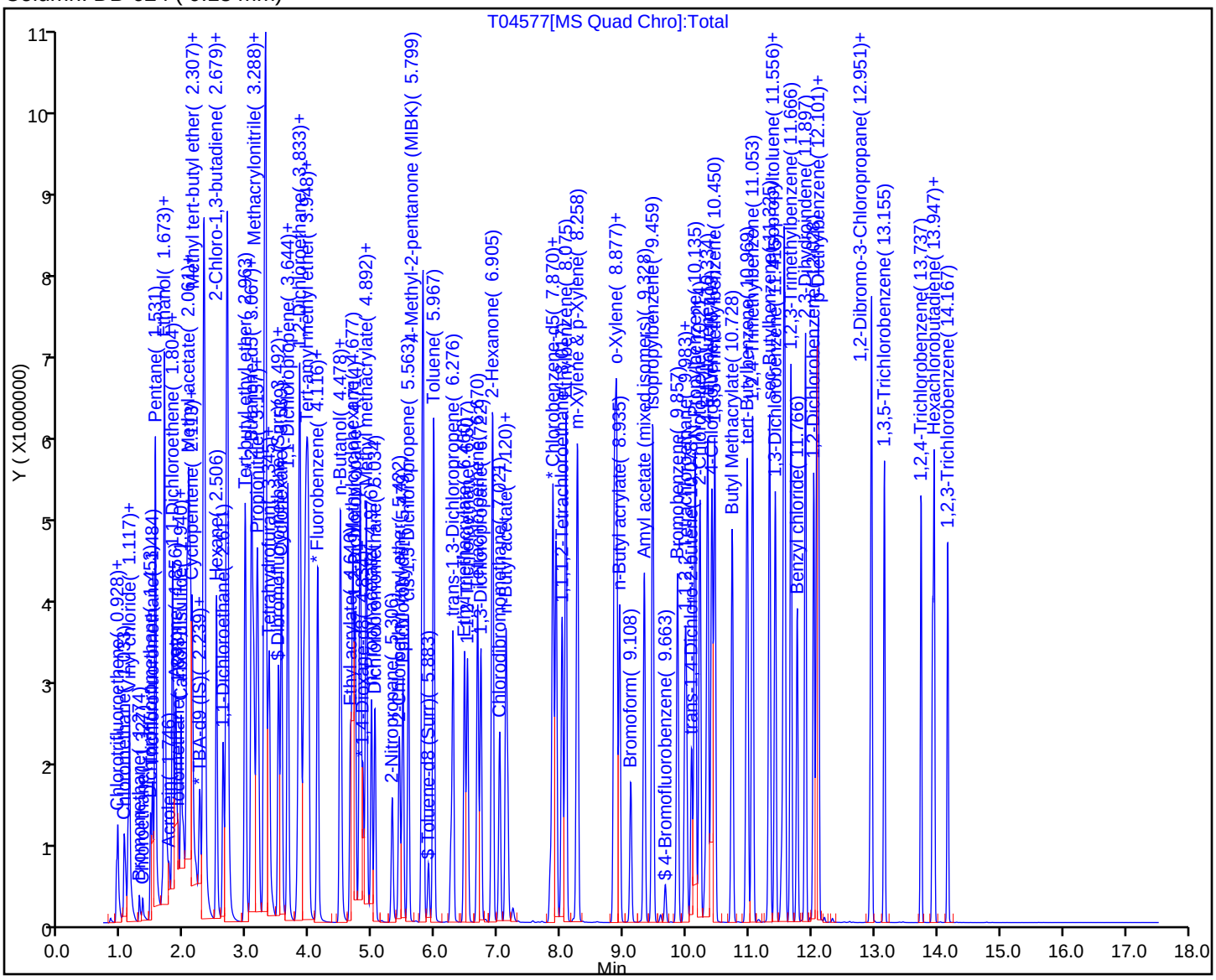
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

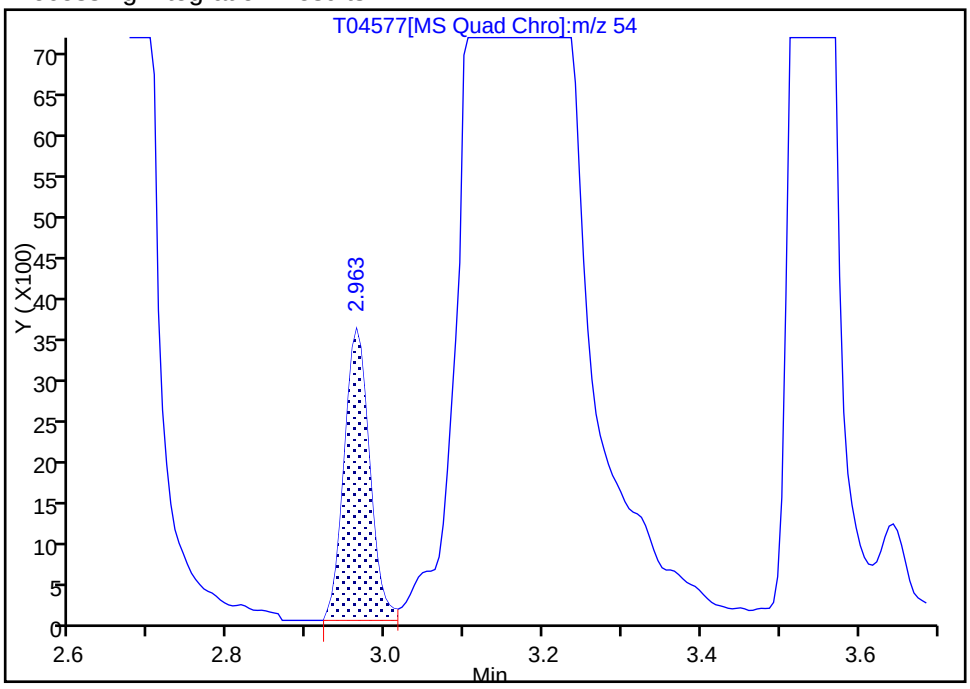
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04577.D		
Injection Date:	13-Mar-2018 12:05:21	Instrument ID:	CVOAMS15
Lims ID:	STD500		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

42 Propionitrile, CAS: 107-12-0

Signal: 1

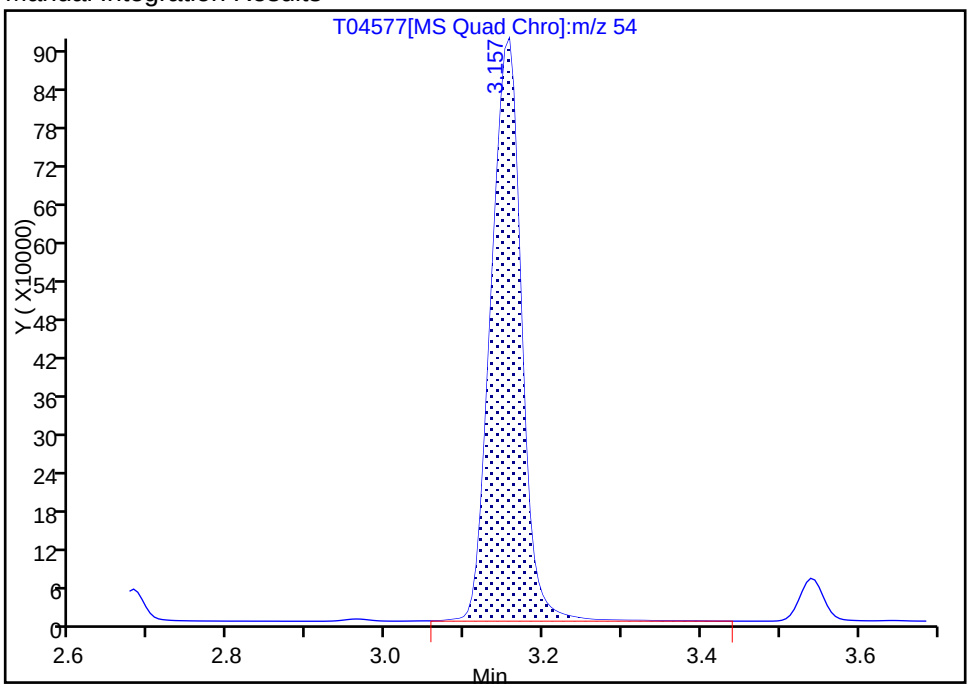
Processing Integration Results

RT: 2.96
Area: 7969
Amount: 6.923257
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 2452765
Amount: 3085.3274
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:33:11

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Mar-2018 14:00:21 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:26:43 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:18:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.912	0.913	-0.001	1	476	1.00	0.7210	a
2 Dichlorodifluoromethane	85	0.933	0.933	0.000	32	1915	1.00	0.4736	
3 Chloromethane	50	1.038	1.044	-0.006	72	2361	1.00	0.9361	
4 Vinyl chloride	62	1.096	1.096	0.000	48	1682	1.00	0.7596	
5 Butadiene	54	1.117	1.117	0.000	89	1497	1.00	0.8847	
6 Bromomethane	94	1.279	1.280	-0.001	1	268	1.00	0.6116	
7 Chloroethane	64	1.337	1.342	-0.005	29	889	1.00	0.8856	
8 Dichlorofluoromethane	67	1.458	1.458	0.000	51	2679	1.00	0.7634	
9 Trichlorofluoromethane	101	1.489	1.495	-0.005	71	2618	1.00	0.5034	
10 Pentane	72	1.536	1.542	-0.006	92	764	2.00	1.73	
11 Ethanol	46	1.625	1.626	-0.001	93	1352	40.0	42.1	
13 1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	66	2197	1.00	0.8680	
12 Ethyl ether	59	1.673	1.673	0.000	64	2882	1.00	0.9474	
14 2-Methyl-1,3-butadiene	53	1.683	1.683	0.000	83	2330	1.00	0.7923	
15 Acrolein	56	1.746	1.746	0.000	87	1780	4.00	3.51	
17 1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	48	2220	1.00	0.8298	
16 1,1-Dichloroethene	96	1.804	1.809	-0.005	84	2548	1.00	0.8637	
18 Acetone	43	1.846	1.846	0.000	79	7781	5.00	5.77	
19 Iodomethane	142	1.903	1.898	0.005	72	1110	1.00	0.4467	
20 Isopropyl alcohol	45	1.945	1.945	0.000	38	2734	10.0	11.5	
21 Carbon disulfide	76	1.945	1.945	0.000	100	7285	1.00	0.9769	
24 Acetonitrile	40	2.029	2.024	0.005	87	2985	10.0	9.05	
22 3-Chloro-1-propene	76	2.040	2.040	0.000	80	1589	1.00	0.8005	
23 Methyl acetate	43	2.055	2.056	-0.001	98	13002	5.00	4.25	
25 Cyclopentene	67	2.092	2.092	0.000	89	6108	1.00	0.8334	
26 Methylene Chloride	84	2.118	2.118	0.000	86	3545	1.00	0.99	
* 27 TBA-d9 (IS)	66	2.155	2.155	0.000	98	60702	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.213	2.213	0.000	44	3669	10.0	9.73	
29 Acrylonitrile	53	2.286	2.286	0.000	96	13902	10.0	9.31	
30 trans-1,2-Dichloroethene	96	2.307	2.307	0.000	87	3172	1.00	1.01	
31 Methyl tert-butyl ether	73	2.312	2.318	-0.006	93	6984	1.00	0.8429	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	92	3943	1.00	0.8012	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	74	5636	1.00	0.8539	
34 Vinyl acetate	86	2.653	2.653	0.000	99	833	2.00	1.47	
35 Isopropyl ether	45	2.674	2.674	0.000	90	10819	1.00	0.8735	
36 2-Chloro-1,3-butadiene	88	2.679	2.679	0.000	52	2539	1.00	0.8597	
37 Tert-butyl ethyl ether	59	2.957	2.957	0.000	86	9249	1.00	0.8054	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	494900	250.0	250.0	
39 2,2-Dichloropropane	97	3.062	3.062	0.000	45	772	1.00	0.7645	a
40 cis-1,2-Dichloroethene	96	3.062	3.062	0.000	28	3503	1.00	0.9416	
41 2-Butanone (MEK)	43	3.083	3.083	0.000	72	8933	5.00	4.64	
42 Propionitrile	54	3.130	3.125	0.005	89	5308	10.0	9.36	
43 Ethyl acetate	70	3.141	3.141	0.000	94	510	2.00	1.48	
44 Methyl acrylate	55	3.167	3.167	0.000	65	3481	1.00	0.8120	
45 Methacrylonitrile	67	3.256	3.256	0.000	94	12734	10.0	8.98	
46 Chlorobromomethane	128	3.256	3.261	-0.005	33	1452	1.00	0.9714	
47 Tetrahydrofuran	72	3.314	3.309	0.005	81	766	2.00	1.72	
48 Chloroform	83	3.335	3.335	0.000	81	4632	1.00	0.8572	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	96	137842	50.0	47.5	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	10	3592	1.00	0.8066	
51 Cyclohexane	84	3.539	3.539	0.000	90	3743	1.00	0.8495	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	74	3633	1.00	0.8955	
52 Carbon tetrachloride	117	3.639	3.639	0.000	59	2391	1.00	0.7270	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.775	0.000	86	158016	50.0	47.8	
54 Isobutyl alcohol	43	3.796	3.791	0.005	79	2978	25.0	19.7	a
56 Benzene	78	3.828	3.828	0.000	95	11751	1.00	0.9894	
57 1,2-Dichloroethane	62	3.843	3.843	0.000	55	4638	1.00	1.01	
58 Isooctane	57	3.922	3.922	0.000	89	9297	1.00	0.7898	
59 Isopropyl acetate	61	3.938	3.938	0.000	89	1014	1.00	0.7104	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	78	6999	1.00	0.8148	
* 61 Fluorobenzene	96	4.100	4.100	0.000	99	577881	50.0	50.0	
62 n-Heptane	43	4.116	4.116	0.000	34	4205	1.00	0.8344	a
63 n-Butanol	56	4.478	4.467	0.011	23	1849	25.0	19.9	
64 Trichloroethene	95	4.472	4.473	-0.001	76	3075	1.00	0.9135	
65 Ethyl acrylate	55	4.630	4.630	0.000	48	3443	1.00	1.02	
66 Methylcyclohexane	83	4.672	4.672	0.000	80	4103	1.00	0.8059	
67 1,2-Dichloropropane	63	4.708	4.709	-0.001	74	3163	1.00	0.8439	
69 Dibromomethane	93	4.829	4.829	0.000	19	1924	1.00	0.9794	
* 68 1,4-Dioxane-d8	96	4.824	4.829	-0.005	52	44710	1000.0	1000.0	
71 Methyl methacrylate	100	4.881	4.882	-0.001	89	1256	2.00	1.46	
70 1,4-Dioxane	88	4.881	4.882	-0.001	30	1746	50.0	44.4	
72 n-Propyl acetate	43	4.965	4.965	0.000	93	4287	1.00	0.7085	
73 Dichlorobromomethane	83	5.023	5.023	0.000	74	2432	1.00	0.7010	
74 2-Nitropropane	41	5.296	5.296	0.000	75	816	2.00	2.06	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	69	1948	1.00	0.7314	
76 Epichlorohydrin	57	5.458	5.458	0.000	92	6088	20.0	15.5	
77 cis-1,3-Dichloropropene	75	5.553	5.553	-0.001	70	3766	1.00	0.8596	
78 4-Methyl-2-pentanone (MIBK	43	5.778	5.773	0.005	92	12797	5.00	3.65	
$ 79 Toluene-d8 (Surr)	98	5.872	5.878	-0.006	99	529438	50.0	50.8	
80 Toluene	91	5.956	5.956	0.000	85	12342	1.00	1.01	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	68	3241	1.00	0.8538	
82 Ethyl methacrylate	69	6.449	6.449	0.000	60	2437	1.00	0.7339	
83 1,1,2-Trichloroethane	83	6.496	6.496	0.000	78	1918	1.00	0.9003	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.659	6.659	0.000	80	3232	1.00	0.9716	
85 1,3-Dichloropropane	76	6.711	6.711	0.000	74	4144	1.00	0.9251	
86 2-Hexanone	43	6.889	6.884	0.005	92	8897	5.00	3.56	
87 Chlorodibromomethane	129	7.005	7.005	0.000	36	1687	1.00	1.03	
88 n-Butyl acetate	43	7.115	7.110	0.005	89	4308	1.00	0.7998	
89 Ethylene Dibromide	107	7.131	7.131	0.000	29	2570	1.00	0.9456	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	451261	50.0	50.0	
91 Chlorobenzene	112	7.859	7.860	-0.001	53	7770	1.00	0.9613	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.006	-0.005	61	1881	1.00	0.7492	
93 Ethylbenzene	106	8.064	8.064	0.000	86	4056	1.00	0.9398	
94 m-Xylene & p-Xylene	106	8.247	8.248	-0.001	90	5037	1.00	0.9632	
95 o-Xylene	106	8.840	8.840	0.000	84	4662	1.00	0.9335	
96 Styrene	104	8.866	8.872	-0.006	85	6927	1.00	0.8744	
97 n-Butyl acrylate	73	8.924	8.924	0.000	77	1311	1.00	1.02	
98 Bromoform	173	9.097	9.102	-0.005	13	883	1.00	1.03	
99 Amyl acetate (mixed isomer	43	9.317	9.312	0.005	70	3889	1.00	1.02	
100 Isopropylbenzene	105	9.448	9.448	0.000	75	12021	1.00	0.9317	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	172371	50.0	50.9	
102 Bromobenzene	156	9.847	9.847	0.000	84	3172	1.00	0.9162	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	44	2488	1.00	0.7830	
104 1,2,3-Trichloropropane	110	9.988	9.983	0.005	65	795	1.00	0.7677	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.062	0.000	6	829	1.00	0.7916	
106 N-Propylbenzene	91	10.114	10.119	-0.005	92	13975	1.00	0.9010	
107 2-Chlorotoluene	91	10.193	10.193	0.000	72	8607	1.00	0.9463	
108 4-Ethyltoluene	105	10.318	10.319	-0.001	85	11202	1.00	0.8646	
109 4-Chlorotoluene	91	10.381	10.382	-0.001	68	8471	1.00	0.9594	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	82	9275	1.00	0.8953	
111 Butyl Methacrylate	87	10.717	10.712	0.005	64	1836	1.00	1.03	
112 tert-Butylbenzene	119	10.953	10.953	0.000	77	8235	1.00	0.8895	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	79	9311	1.00	0.8717	
113 sec-Butylbenzene	105	11.309	11.310	-0.001	89	12194	1.00	0.8916	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	87	6101	1.00	0.9703	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.509	0.000	95	244788	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	46	6493	1.00	1.07	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	81	10189	1.00	0.9256	
135 1,2,3-Trimethylbenzene	105	11.650	11.650	0.000	96	9372	1.00	0.8796	
119 Benzyl chloride	91	11.755	11.755	0.000	63	3219	1.00	1.03	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	77	8699	1.00	0.8501	
121 1,2-Dichlorobenzene	146	12.017	12.017	0.000	83	5493	1.00	0.9531	
122 p-Diethylbenzene	119	12.064	12.065	-0.001	79	5291	1.00	0.8738	
123 n-Butylbenzene	92	12.091	12.091	0.000	91	5531	1.00	0.9540	
124 1,2-Dibromo-3-Chloropropan	155	12.924	12.924	0.000	0	274	1.00	1.03	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	80	7850	1.00	0.8242	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	70	4226	1.00	0.9860	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	61	3664	1.00	0.9899	
128 Hexachlorobutadiene	225	13.921	13.921	-0.001	45	1645	1.00	1.02	
129 Naphthalene	128	13.947	13.942	0.005	92	7521	1.00	0.8343	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	70	3240	1.00	0.9831	
S 131 1,2-Dichloroethene, Total	100				0		2.00	1.95	
S 132 Xylenes, Total	100				0		2.00	1.90	
S 133 Total BTEX	1				0		5.00	4.84	
S 136 1,3-Dichloropropene, Total	1				0		1.00	1.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 Total 1,2-dichloroethene	1				0			1.95	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MIX I Hi_00087	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00068	Amount Added:	1.00	Units: uL	
Ethanol mix_00013	Amount Added:	1.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
14DIOXINTER_00082	Amount Added:	30.00	Units: uL	
GAS Hi_00244	Amount Added:	1.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:26:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Injection Date: 13-Mar-2018 14:00:21 Instrument ID: CVOAMS15

Lims ID: STD1

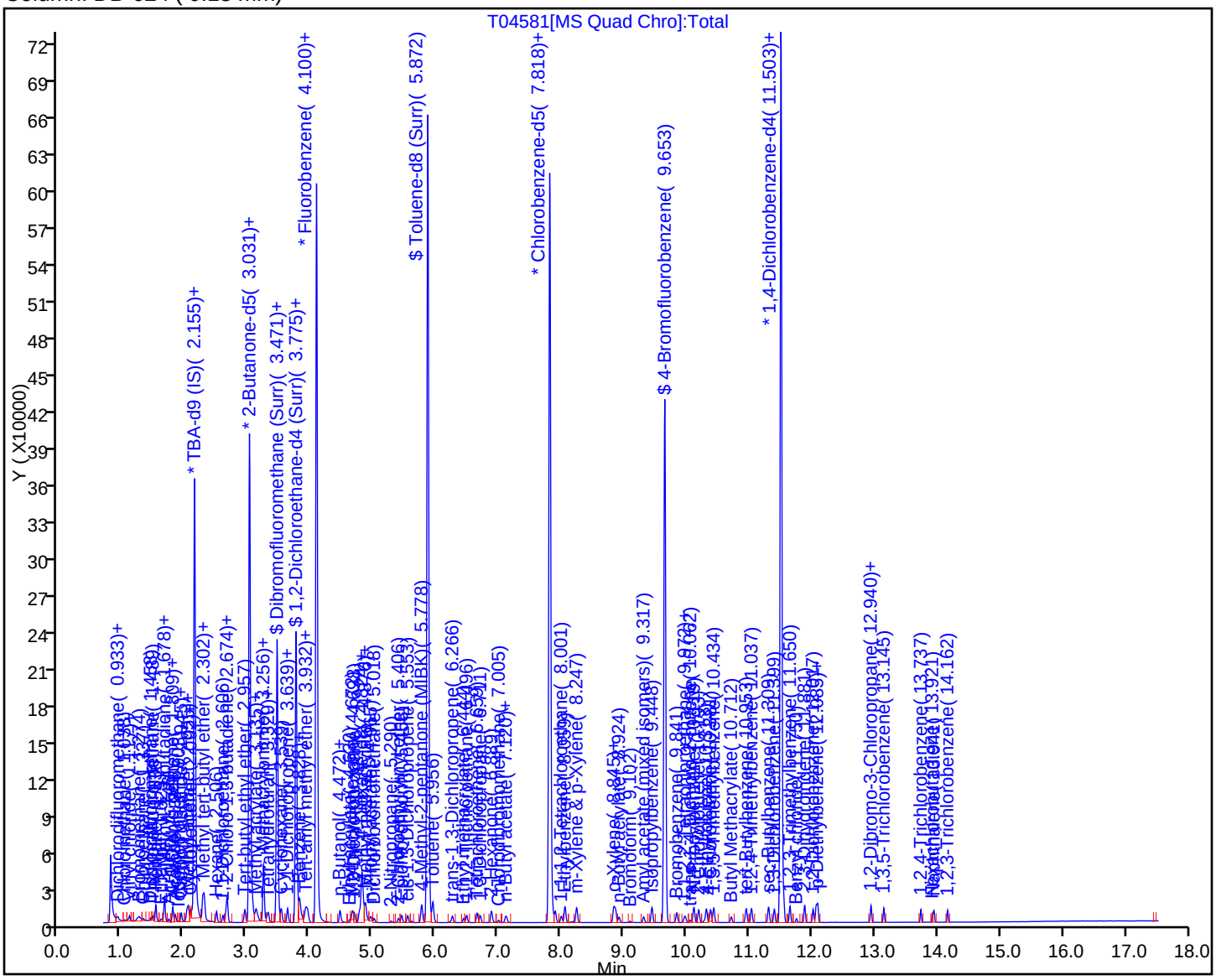
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 13

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

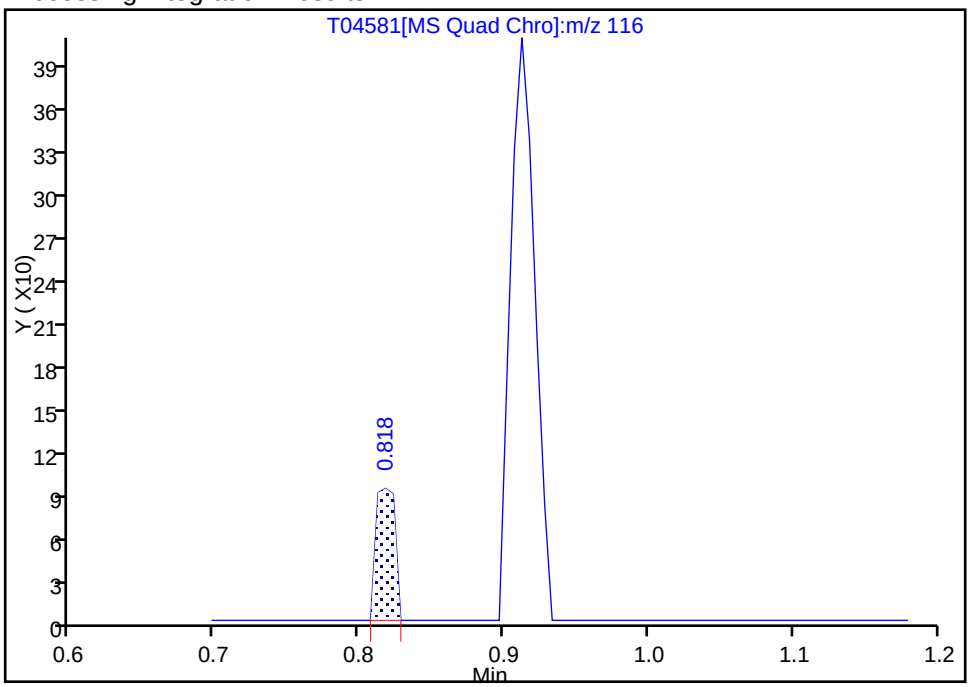
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D
Injection Date: 13-Mar-2018 14:00:21 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

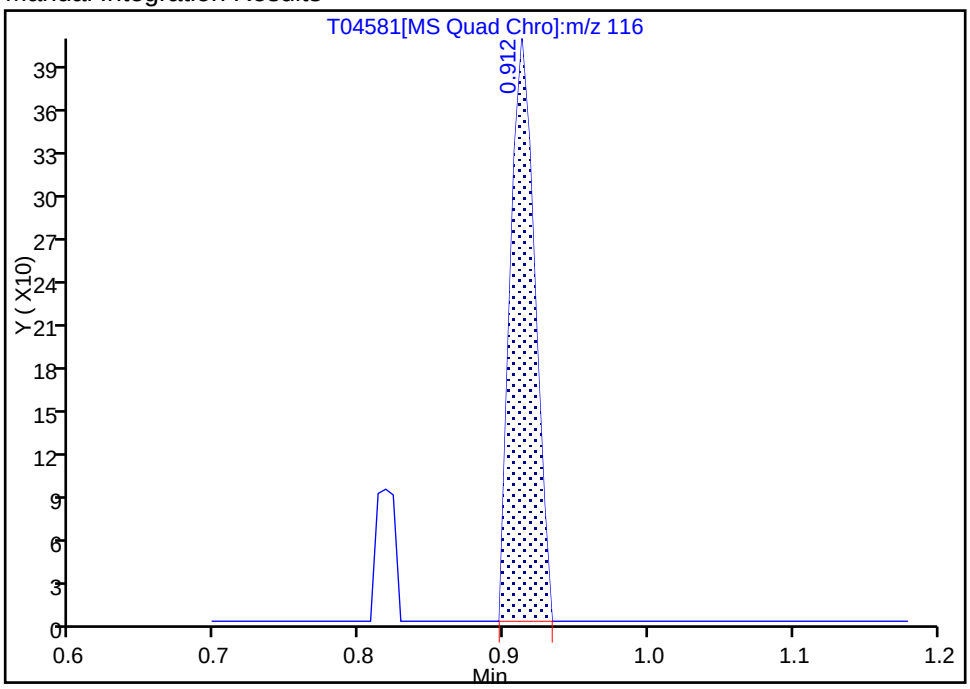
Processing Integration Results

RT: 0.82
Area: 85
Amount: 0.128769
Amount Units: ug/l



Manual Integration Results

RT: 0.91
Area: 476
Amount: 0.721026
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:34:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

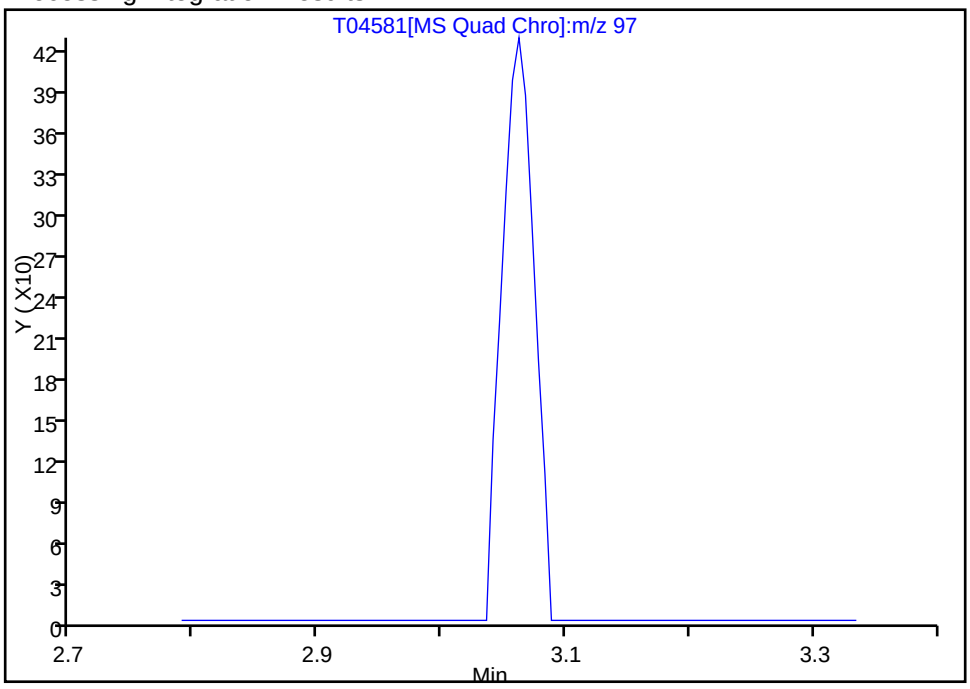
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D
Injection Date: 13-Mar-2018 14:00:21 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

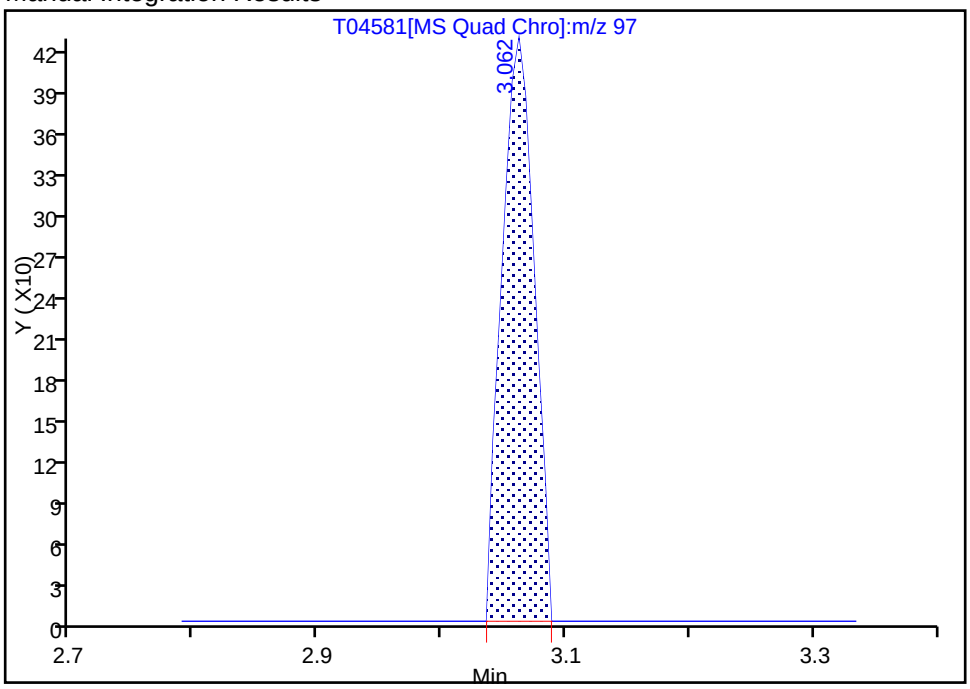
Not Detected
Expected RT: 3.06

Processing Integration Results



Manual Integration Results

RT: 3.06
Area: 772
Amount: 0.764480
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:34:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

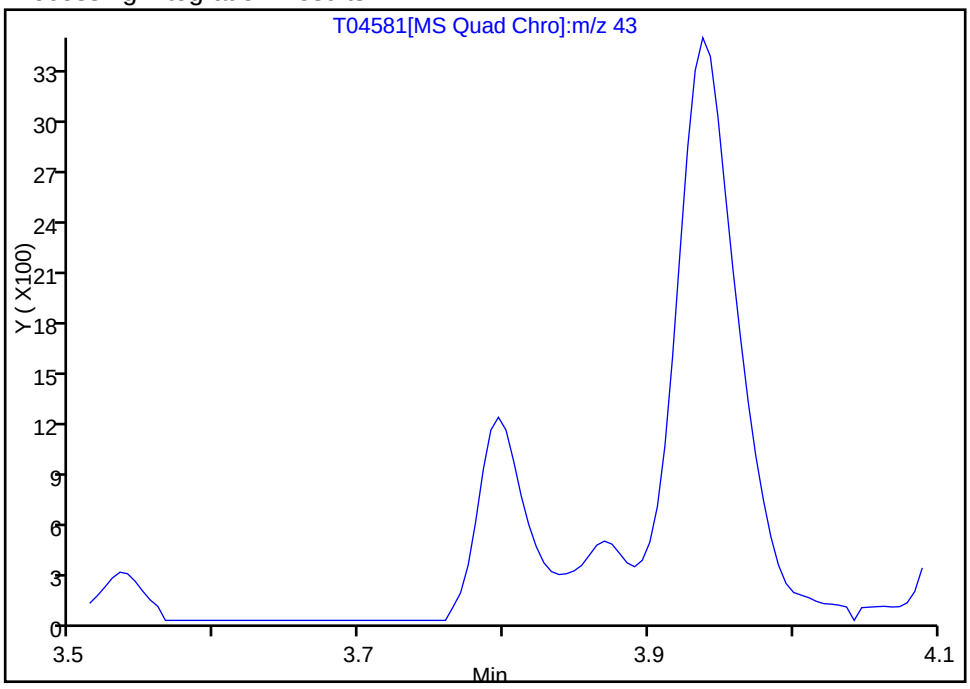
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D
Injection Date: 13-Mar-2018 14:00:21 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

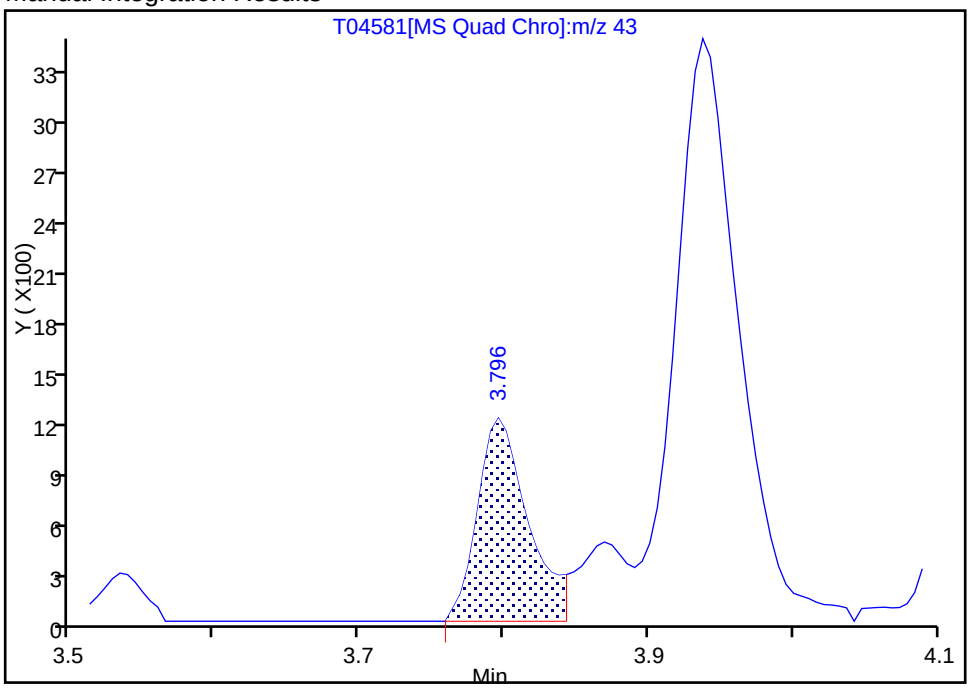
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 2978
Amount: 19.692710
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:35:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

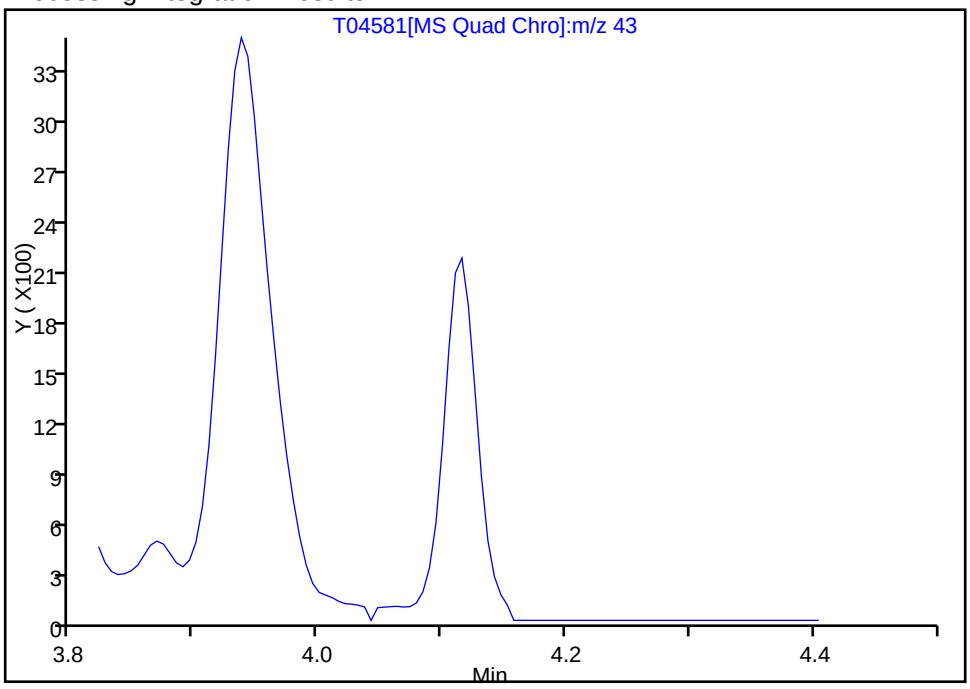
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D
Injection Date: 13-Mar-2018 14:00:21 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

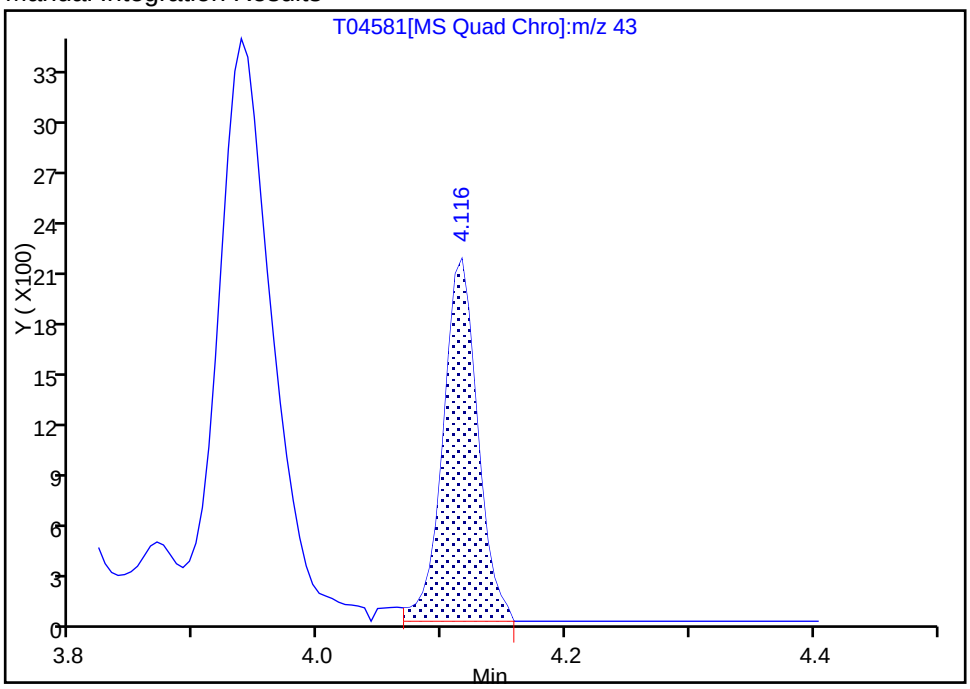
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 4205
Amount: 0.834447
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 12:35:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-502604/2	K80594.D
Level 2	STD5 460-502604/3	K80595.D
Level 3	STD20 460-502604/4	K80596.D
Level 4	STD50 460-502604/5	K80597.D
Level 5	STD200 460-502604/6	K80598.D
Level 6	STD500 460-502604/7	K80599.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.0649 0.0693	0.0885	0.0904	0.0846	0.0739	Ave		0.0786				13.6		20.0			
Dichlorodifluoromethane	0.3202 0.5062	0.5672	0.6035	0.5666	0.5532	Lin2	-0.239	0.5704			0.1000				0.9940		0.9900
Chloromethane	0.3312 0.3849	0.4319	0.4493	0.4069	0.4058	Ave		0.4017			0.1000	10.3		20.0			
Vinyl chloride	0.3339 0.4005	0.4643	0.4799	0.4385	0.4317	Ave		0.4248			0.1000	12.3		20.0			
Butadiene	0.2216 0.3035	0.3057	0.3401	0.3228	0.3197	Ave		0.3022				13.8		20.0			
Bromomethane	0.3289 0.3338	0.3878	0.4029	0.3754	0.3524	Ave		0.3635			0.1000	8.2		20.0			
Chloroethane	0.1719 0.2052	0.2226	0.2414	0.2137	0.2151	Ave		0.2116			0.1000	10.9		20.0			
Dichlorofluoromethane	0.5564 0.6351	0.7336	0.7563	0.7139	0.6986	Ave		0.6823				10.9		20.0			
Trichlorofluoromethane	0.5015 0.6202	0.7584	0.7644	0.7352	0.6976	Ave		0.6795			0.1000	15.0		20.0			
Pentane	1.3292 1.4939	1.8299	2.0487	1.8743	1.6861	Ave		1.7103				15.4		20.0			
Ethanol	0.0398 0.0332	0.0355	0.0379	0.0329	0.0325	Ave		0.0353				8.5		20.0			
Ethyl ether	0.2290 0.1898	0.2320	0.2192	0.2134	0.2063	Ave		0.2150				7.2		20.0			
2-Methyl-1,3-butadiene	0.1549 0.2241	0.2330	0.2648	0.2559	0.2442	Lin2	-0.093	0.2492							0.9960		0.9900
1,2-Dichloro-1,1,2-trifluoroethane	0.2396 0.2989	0.3553	0.3728	0.3518	0.3235	Ave		0.3237				15.1		20.0			
Acrolein	1.2383 1.2138	1.2375	1.3269	1.2253	1.3054	Ave		1.2578				3.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2517 0.3825	0.4407	0.4633	0.4504	0.4112	Lin2	-0.176	0.4375			0.1000				0.9920		0.9900
1,1-Dichloroethene	0.2064 0.3045	0.3367	0.3664	0.3493	0.3260	Lin2	-0.131	0.3427			0.1000				0.9940		0.9900
Acetone	1.9018 1.2757	1.3347	1.1760	1.1062	1.2207	QuaF		1.1722	0.0000415		0.0500				1.0000		0.9900
Iodomethane	0.5839 0.6697	0.7517	0.8177	0.7583	0.7282	Ave		0.7182				11.3		20.0			
Isopropyl alcohol	0.7334 0.6325	0.4639	0.6642	0.6258	0.6540	Ave		0.6290				14.2		20.0			
Carbon disulfide	0.8143 1.0436	1.1385	1.2269	1.1731	1.1403	Ave		1.0895			0.1000	13.5		20.0			
Allyl chloride	0.1540 0.1690	0.1897	0.2039	0.1852	0.1829	Ave		0.1808				9.6		20.0			
Methyl acetate	0.1871 0.1644	0.1724	0.1782	0.1715	0.1741	Ave		0.1746			0.1000	4.3		20.0			
Cyclopentene	0.4111 0.6182	0.6718	0.7395	0.7240	0.6864	Lin2	-0.283	0.7020							0.9950		0.9900
Acetonitrile	1.2935 1.1242	0.9899	1.3742	1.2108	1.2539	Ave		1.2078				11.2		20.0			
Methylene Chloride	0.4392 0.3272	0.3979	0.3968	0.3697	0.3539	Ave		0.3808			0.1000	10.3		20.0			
2-Methyl-2-propanol	1.7868 1.2966	1.4729	1.3686	1.3063	1.3620	Ave		1.4322				12.9		20.0			
Methyl tert-butyl ether	0.9375 0.8650	0.9624	0.9697	0.9334	0.9198	Ave		0.9313			0.1000	4.0		20.0			
trans-1,2-Dichloroethene	0.2499 0.3065	0.3677	0.3830	0.3621	0.3459	Ave		0.3358			0.1000	14.8		20.0			
Acrylonitrile	0.0968 0.0863	0.0901	0.0957	0.0910	0.0907	Ave		0.0918				4.2		20.0			
Hexane	0.1795 0.2032	0.2226	0.2365	0.2323	0.2207	Ave		0.2158				9.8		20.0			
Isopropyl ether	0.7741 0.7604	0.8982	0.8871	0.8498	0.8206	Ave		0.8317				6.9		20.0			
1,1-Dichloroethane	0.4604 0.4830	0.5473	0.5965	0.5580	0.5325	Ave		0.5296			0.2000	9.5		20.0			
Vinyl acetate	1.8632 1.6722	1.8990	1.9168	1.8262	1.9293	Ave		1.8511				5.2		20.0			
2-Chloro-1,3-butadiene	0.1929 0.2553	0.2869	0.2991	0.2958	0.2805	Ave		0.2684				15.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.8424 0.8513	0.9321	0.9636	0.9256	0.9081	Ave		0.9038				5.3		20.0			
2,2-Dichloropropane	0.1815 0.1657	0.1781	0.1910	0.1818	0.1757	Ave		0.1790				4.6		20.0			
cis-1,2-Dichloroethene	0.3673 0.3576	0.4235	0.4261	0.4130	0.3939	Ave		0.3969			0.1000	7.3		20.0			
Ethyl acetate	0.3864 0.3483	0.4250	0.3955	0.3852	0.3816	Ave		0.3870				6.4		20.0			
2-Butanone (MEK)	0.5188 0.4207	0.4616	0.4416	0.4329	0.4332	Ave		0.4515			0.0500	7.9		20.0			
Methyl acrylate	0.2195 0.2295	0.2211	0.2141	0.2154	0.2312	Ave		0.2218				3.2		20.0			
Propionitrile	1.5547 1.3319	1.4513	1.4905	1.4782	1.4249	Ave		1.4552				5.1		20.0			
Tetrahydrofuran	0.6727 0.4602	0.5664	0.5471	0.5156	0.5132	Ave		0.5459				13.2		20.0			
Chlorobromomethane	0.1908 0.1897	0.2394	0.2222	0.2140	0.2114	Ave		0.2112				9.0		20.0			
Methacrylonitrile	0.1137 0.1042	0.1114	0.1090	0.1078	0.1094	Ave		0.1092				3.0		20.0			
Chloroform	0.5601 0.5705	0.6732	0.6899	0.6621	0.6312	Ave		0.6311			0.2000	8.6		20.0			
Cyclohexane	0.3281 0.4646	0.5190	0.5496	0.5314	0.4927	Lin2	-0.182	0.5197			0.1000				0.9940		0.9900
1,1,1-Trichloroethane	0.4951 0.5722	0.6122	0.6682	0.6389	0.6112	Ave		0.5996			0.1000	10.1		20.0			
Carbon tetrachloride	0.3716 0.5316	0.5687	0.5970	0.5854	0.5595	Ave		0.5356			0.1000	15.6		20.0			
1,1-Dichloropropene	0.3033 0.3957	0.4269	0.4517	0.4464	0.4306	Ave		0.4091				13.5		20.0			
Isobutyl alcohol	0.0250 0.0547	0.0488	0.0486	0.0489	0.0561	Lin2	-0.695	0.0530							0.9970		0.9900
Benzene	1.1669 1.3109	1.5048	1.5411	1.5293	1.5045	Ave		1.4263			0.5000	10.7		20.0			
Isopropyl acetate	0.9767 0.7945	0.8279	0.7929	0.8181	0.8338	Ave		0.8406				8.2		20.0			
Tert-amyl methyl ether	0.8765 0.9364	1.0192	1.0048	1.0148	1.0042	Ave		0.9760				5.9		20.0			
1,2-Dichloroethane	0.4833 0.4170	0.4716	0.4543	0.4474	0.4437	Ave		0.4529			0.1000	5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.1118 0.2112	0.2263	0.2380	0.2395	0.2266	Lin2	-0.119	0.2341							0.9960		0.9900
n-Butanol	0.2740 0.3252	0.2474	0.2749	0.2877	0.3146	Ave		0.2873				10.0		20.0			
Trichloroethene	0.2765 0.3399	0.3732	0.3650	0.3699	0.3601	Ave		0.3474			0.2000	10.6		20.0			
Ethyl acrylate	0.1214 0.1718	0.1822	0.1953	0.1882	0.1801	Ave		0.1732				15.4		20.0			
Methylcyclohexane	0.3032 0.5636	0.6001	0.6437	0.6307	0.6047	Lin2	-0.311	0.6239			0.1000				0.9960		0.9900
1,2-Dichloropropane	0.2945 0.2682	0.2965	0.2869	0.2842	0.2815	Ave		0.2853			0.1000	3.6		20.0			
Methyl methacrylate	0.1971 0.2313	0.2172	0.2105	0.2141	0.2288	Ave		0.2165				5.8		20.0			
1,4-Dioxane	2.0475 1.8116	1.8867	1.5518	1.5562	1.8571	Ave		1.7852				11.0		20.0			
n-Propyl acetate	0.2839 0.3453	0.3168	0.3126	0.3193	0.3323	Ave		0.3184				6.5		20.0			
Dibromomethane	0.1998 0.2135	0.2274	0.2227	0.2180	0.2201	Ave		0.2169				4.4		20.0			
Dichlorobromomethane	0.3838 0.4513	0.4713	0.4528	0.4582	0.4672	Ave		0.4474			0.2000	7.2		20.0			
2-Chloroethyl vinyl ether	0.0959 0.1366	0.1354	0.1264	0.1266	0.1289	Ave		0.1250				11.9		20.0			
2-Nitropropane	0.0880 0.0842	0.0636	0.0653	0.0665	0.0800	Ave		0.0746				14.4		20.0			
Epichlorohydrin	0.3386 0.3282	0.3399	0.3559	0.3448	0.3456	Ave		0.3422				2.7		20.0			
cis-1,3-Dichloropropene	0.4699 0.5824	0.5982	0.5929	0.5906	0.6157	Ave		0.5750			0.2000	9.2		20.0			
4-Methyl-2-pentanone (MIBK)	2.9657 2.8790	3.0303	3.2592	3.1613	3.2274	Ave		3.0871			0.0500	4.9		20.0			
Toluene	1.4894 1.5974	1.7125	1.7700	1.7491	1.7561	Ave		1.6791			0.4000	6.7		20.0			
trans-1,3-Dichloropropene	0.4191 0.5247	0.5101	0.5107	0.5115	0.5397	Ave		0.5026			0.1000	8.5		20.0			
Ethyl methacrylate	0.3325 0.4085	0.3692	0.3707	0.3991	0.4282	Ave		0.3847				8.9		20.0			
1,1,2-Trichloroethane	0.2696 0.2691	0.2918	0.2808	0.2773	0.2884	Ave		0.2795			0.1000	3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.3774 0.4720	0.5154	0.5291	0.5251	0.5192	Ave		0.4897			0.2000	12.0		20.0			
1,3-Dichloropropane	0.4071 0.4891	0.5436	0.5100	0.5126	0.5151	Ave		0.4962				9.5		20.0			
2-Hexanone	1.8405 2.0065	1.9566	2.1124	2.0539	2.0184	Ave		1.9981			0.0500	4.7		20.0			
n-Butyl acetate	0.4036 0.4112	0.3936	0.3828	0.3989	0.4198	Ave		0.4017				3.3		20.0			
Chlorodibromomethane	0.4149 0.4738	0.4629	0.4655	0.4861	0.4947	Ave		0.4663			0.1000	6.0		20.0			
Ethylene Dibromide	0.3190 0.3610	0.3878	0.3766	0.3710	0.3736	Ave		0.3649			0.1000	6.6		20.0			
Chlorobenzene	1.0232 1.0832	1.2234	1.1960	1.1703	1.1667	Ave		1.1438			0.5000	6.6		20.0			
Ethylbenzene	0.4602 0.5533	0.5930	0.6163	0.6059	0.6131	Ave		0.5736			0.1000	10.5		20.0			
1,1,1,2-Tetrachloroethane	0.4075 0.4914	0.4784	0.4782	0.5188	0.5404	Ave		0.4858				9.4		20.0			
m-Xylene & p-Xylene	0.5903 0.6831	0.7040	0.7505	0.7416	0.7438	Ave		0.7022			0.1000	8.7		20.0			
n-Butyl acrylate	0.2016 0.2451	0.2141	0.2248	0.2377	0.2501	Ave		0.2289				8.2		20.0			
o-Xylene	0.5794 0.7108	0.7201	0.7892	0.7724	0.7895	Ave		0.7269			0.3000	11.0		20.0			
Styrene	0.9105 1.1473	1.1567	1.2749	1.2532	1.2371	Ave		1.1633			0.3000	11.5		20.0			
Amyl acetate (mixed isomers)	0.7351 0.8434	0.7110	0.7666	0.7893	0.8756	Ave		0.7868				8.0		20.0			
Bromoform	0.3015 0.3374	0.3166	0.3119	0.3252	0.3424	Ave		0.3225			0.1000	4.8		20.0			
Isopropylbenzene	1.3303 2.0182	2.0425	2.2864	2.2793	2.2803	Lin2	-0.895	2.2300			0.1000				0.9970		0.9900
Bromobenzene	0.7920 0.9206	0.9666	0.9754	0.9499	0.9834	Ave		0.9313				7.7		20.0			
1,1,2,2-Tetrachloroethane	0.6944 0.7956	0.8004	0.7949	0.7997	0.8516	Ave		0.7894			0.3000	6.5		20.0			
N-Propylbenzene	2.7529 3.7825	3.8298	4.1607	4.0526	4.2243	Ave		3.8005				14.3		20.0			
1,2,3-Trichloropropane	0.2723 0.2438	0.2674	0.2521	0.2443	0.2604	Ave		0.2567				4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.1799 0.1935	0.1936	0.1894	0.1809	0.1950	Ave		0.1887				3.6		20.0			
2-Chlorotoluene	2.2298 2.6408	2.7230	2.9105	2.7902	2.9141	Ave		2.7014				9.4		20.0			
4-Ethyltoluene	2.6359 3.2783	3.3548	3.7198	3.6128	3.6689	Ave		3.3784				12.0		20.0			
1,3,5-Trimethylbenzene	2.0772 3.1004	2.9472	3.2938	3.1924	3.4152	Ave		3.0044				16.0		20.0			
4-Chlorotoluene	1.7887 2.2756	2.3377	2.5098	2.3903	2.4275	Ave		2.2883				11.2		20.0			
Butyl Methacrylate	0.5578 0.8967	0.6907	0.8089	0.8665	0.9500	Ave		0.7951				18.4		20.0			
tert-Butylbenzene	1.3879 2.6555	2.3309	2.6968	2.6836	2.9063	Lin2	-1.372	2.7355							0.9980		0.9900
1,2,4-Trimethylbenzene	2.2020 3.1351	3.0982	3.3629	3.2830	3.4733	Ave		3.0924				14.8		20.0			
sec-Butylbenzene	2.5224 3.9951	3.6218	4.1726	4.2043	4.4030	Lin2	-1.697	4.1810							0.9980		0.9900
4-Isopropyltoluene	2.2384 3.5031	3.4624	3.7321	3.7146	3.8776	Lin2	-1.493	3.7390							0.9990		0.9900
1,3-Dichlorobenzene	1.5579 1.6734	1.9089	1.9430	1.8590	1.8385	Ave		1.7968			0.6000	8.3		20.0			
1,4-Dichlorobenzene	1.6076 1.6744	1.9416	1.9328	1.8377	1.8382	Ave		1.8054			0.5000	7.6		20.0			
Benzyl chloride	1.2834 1.5524	1.2995	1.3738	1.3852	1.5754	Ave		1.4116				8.8		20.0			
Indan	2.7461 3.1312	3.2473	3.5044	3.3906	3.5067	Ave		3.2544				8.9		20.0			
p-Diethylbenzene	1.4606 1.8498	1.8678	2.1719	2.0796	2.0390	Ave		1.9115				13.3		20.0			
n-Butylbenzene	1.0800 1.6211	1.6775	1.8522	1.7494	1.7707	Lin2	-0.674	1.7687							0.9970		0.9900
1,2-Dichlorobenzene	1.6035 1.7394	1.9418	1.9450	1.8740	1.9091	Ave		1.8355			0.4000	7.4		20.0			
1,2,4,5-Tetramethylbenzene	2.4023 3.5022	3.3316	3.7071	3.7148	3.8818	Ave		3.4233				15.6		20.0			
1,2-Dibromo-3-Chloropropane	0.1867 0.1789	0.1943	0.1709	0.1703	0.1832	Ave		0.1807			0.0500	5.2		20.0			
1,3,5-Trichlorobenzene	1.3252 1.4758	1.6247	1.7175	1.6797	1.6354	Ave		1.5764				9.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.3830 1.4395	1.5412	1.6645	1.6080	1.6004	Ave		1.5394			0.2000	7.0		20.0			
Hexachlorobutadiene	0.5025 0.7849	0.7220	0.8168	0.7905	0.7957	Lin2	-0.298	0.7989							0.9990		0.9900
Naphthalene	3.6135 3.5011	3.6356	3.8541	3.7702	3.8844	Ave		3.7098				4.1		20.0			
1,2,3-Trichlorobenzene	1.4004 1.4446	1.6558	1.6926	1.6398	1.6129	Ave		1.5743				7.7		20.0			
Dibromofluoromethane (Surr)	0.3434 0.3000	0.3628	0.3589	0.3535	0.3467	Ave		0.3442				6.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3194 0.3289	0.3483	0.3447	0.3476	0.3533	Ave		0.3404				3.9		20.0			
Toluene-d8 (Surr)	1.3445 1.3138	1.4808	1.5086	1.4848	1.5393	Ave		1.4453				6.4		20.0			
4-Bromofluorobenzene	0.4632 0.4460	0.5181	0.5133	0.5132	0.5001	Ave		0.4923				6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-502604/2	K80594.D
Level 2	STD5 460-502604/3	K80595.D
Level 3	STD20 460-502604/4	K80596.D
Level 4	STD50 460-502604/5	K80597.D
Level 5	STD200 460-502604/6	K80598.D
Level 6	STD500 460-502604/7	K80599.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	578 392978	3993	16259	40737	155201	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Lin2	2852 2871470	25603	108599	272833	1161580	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	2950 2183458	19496	80854	195954	852187	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	2974 2271907	20956	86346	211156	906554	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	1974 1721392	13798	61205	155459	671301	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	2930 1893379	17506	72490	180758	739968	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1531 1163867	10048	43439	102879	451598	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	4956 3602632	33112	136096	343747	1466947	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	4467 3517632	34232	137546	354022	1464737	1.00 500	5.00	20.0	50.0	200
Pentane	TBAd9	Ave	692 488293	4451	19074	47450	197297	2.00 1000	10.0	40.0	100	400
Ethanol	TBAd9	Ave	414 217233	1729	7054	16636	76094	40.0 20000	200	800	2000	8000
Ethyl ether	FB	Ave	2040 1076692	10471	39448	102770	433259	1.00 500	5.00	20.0	50.0	200
2-Methyl-1,3-butadiene	FB	Lin2	1380 1271265	10519	47653	123232	512675	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	2134 1695441	16039	67081	169385	679385	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	32233 238046	60201	92653	124078	190928	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin2	2242 2169690	19894	83373	216864	863417	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Lin2	1839 1727151	15197	65939	168217	684486	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	QuaF	6891 3115704	23466	79181	204318	1021466	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	5201 3798552	33931	147142	365145	1529031	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	1909 1033713	5642	30920	79220	382624	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	7254 5919604	51390	220778	564853	2394372	1.00 500	5.00	20.0	50.0	200
Allyl chloride	FB	Ave	1372 958623	8562	36684	89164	384094	1.00 500	5.00	20.0	50.0	200
Methyl acetate	FB	Ave	8335 4662269	38910	160296	412989	1828266	5.00 2500	25.0	100	250	1000
Cyclopentene	FB	Lin2	3662 3506775	30324	133075	348613	1441341	1.00 500	5.00	20.0	50.0	200
Acetonitrile	TBAd9	Ave	3367 1837237	12039	63974	153270	733605	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	3912 1855692	17959	71405	177995	743200	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	4651 2119104	17913	63710	165358	796833	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	8351 4906358	43443	174490	449438	1931423	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	2226 1738556	16596	68922	174350	726236	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	8619 4895512	40691	172248	438194	1904598	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	1599 1152416	10048	42557	111874	463434	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	6896 4312862	40542	159630	409206	1723182	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	4101 2739512	24702	107334	268689	1118165	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	TBAd9	Ave	970 546596	4619	17846	46234	225747	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	1718 1448167	12951	53814	142422	589072	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	7504 4828434	42073	173401	445697	1906789	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	1617 940141	8038	34363	87520	368909	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	3272 2028523	19117	76673	198888	827114	1.00 500	5.00	20.0	50.0	200
Ethyl acetate	BUT	Ave	560 340294	2989	10651	28460	127712	2.00 1000	10.0	40.0	100	400
2-Butanone (MEK)	BUT	Ave	1880 1027550	8115	29733	79956	362481	5.00 2500	25.0	100	250	1000
Methyl acrylate	FB	Ave	1955 1301761	9981	38519	103731	485384	1.00 500	5.00	20.0	50.0	200
Propionitrile	TBAd9	Ave	4047 2176747	17650	69386	187110	833626	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	975 449595	3983	14733	38092	171775	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	1700 1075722	10805	39991	103055	443809	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	10128 5909398	50269	196077	518955	2298075	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	4989 3236109	30386	124140	318793	1325310	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Lin2	2923 2635117	23426	98900	255876	1034559	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	4410 3245807	27635	120237	307642	1283350	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	3310 3015059	25672	107425	281861	1174933	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	2702 2244467	19271	81275	214948	904226	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Lin2	163 223541	1485	5661	15472	82018	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	8398 6351108	56330	229582	605358	2558276	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	8700 4506502	37372	142670	393923	1750767	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	7808 5311417	46005	180808	488671	2108677	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	4305 2365300	21289	81751	215433	931767	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Lin2	996 1197948	10216	42824	115331	475823	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	1783 1328834	7523	31991	91046	460164	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	2463 1928079	16844	65670	178136	756101	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	1081 974357	8224	35150	90607	378097	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Lin2	2701 3196547	27087	115827	303675	1269702	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2623 1521037	13382	51628	136852	591075	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	3511 2624401	19610	75766	206153	960713	2.00 1000	10.0	40.0	100	400
1,4-Dioxane	DXE	Ave	900 365317	4115	14385	35403	142559	20.0 10000	100	400	1000	4000
n-Propyl acetate	FB	Ave	2529 1958688	14300	56241	153758	697711	1.00 500	5.00	20.0	50.0	200
Dibromomethane	FB	Ave	1780 1210960	10263	40080	104980	462061	1.00 500	5.00	20.0	50.0	200
Dichlorobromomethane	FB	Ave	3419 2560049	21274	81469	220647	981074	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	854 774683	6112	22752	60944	270671	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	1568 955530	5745	23506	64073	336123	2.00 1000	10.0	40.0	100	400
Epichlorohydrin	BUT	Ave	4908 3206132	23901	95836	254742	1156777	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	3382 2821717	22392	88324	233789	1046976	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	10746 7031663	53277	219435	583887	2700608	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	10719 7739026	64104	263681	692346	2986011	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	3016 2542225	19094	76085	202488	917671	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	CBNZ d5	Ave	2393 1979175	13821	55231	157982	728161	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	1940 1303679	10924	41825	109778	490404	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	2716 2286591	19294	78818	207858	882846	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	2930 2369577	20348	75969	202902	875842	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	6669 4900692	34400	142225	379360	1688994	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	2905 1991929	14733	57026	157903	713914	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorodibromomethane	CBNZ d5	Ave	2986 2295430	17327	69349	192425	841222	1.00 500	5.00	20.0	50.0	200
Ethylene Dibromide	CBNZ d5	Ave	2296 1749017	14518	56106	146873	635317	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	7364 5247613	45795	178175	463234	1983820	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	3312 2680683	22197	91806	239854	1042565	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2933 2380747	17909	71244	205352	918823	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	4248 3309337	26355	111809	293540	1264692	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	1451 1187367	8014	33492	94103	425296	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	4170 3443745	26955	117566	305753	1342558	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	6553 5558586	43298	189929	496052	2103544	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	3256 2318556	16076	68328	187312	842762	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	2170 1634815	11850	46470	128718	582147	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Lin2	9574 9777467	76457	340602	902218	3877510	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	3508 2530724	21853	86939	225443	946574	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	3076 2187081	18096	70850	189802	819672	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	12194 10398463	86588	370853	961788	4065987	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	1206 670256	6045	22471	57985	250623	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	797 531920	4377	16883	42929	187717	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	9877 7259794	61565	259421	662183	2804849	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	11676 9012342	75849	331555	857417	3531350	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	9201 8523199	66633	293587	757640	3287193	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	7923 6255694	52852	223708	567290	2336497	1.00 500	5.00	20.0	50.0	200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	2471 2465039	15617	72100	205646	914381	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Lin2	6148 7300161	52698	240377	636901	2797349	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	9754 8618699	70048	299744	779144	3343124	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Lin2	11173 10982894	81885	371920	997797	4237978	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Lin2	9915 9630278	78280	332656	881569	3732274	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	6901 4600197	43157	173187	441193	1769581	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	7121 4603018	43898	172276	436149	1769242	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	5685 4267722	29380	122455	328748	1516345	1.00 500	5.00	20.0	50.0	200
Indan	DCBd 4	Ave	12164 8607916	73418	312354	804695	3375231	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	6470 5085226	42229	193587	493550	1962558	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Lin2	4784 4456415	37926	165094	415172	1704285	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	7103 4781666	43901	173366	444763	1837491	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	10641 9627690	75323	330422	881620	3736258	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	827 491787	4394	15235	40408	176306	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	5870 4057039	36733	153087	398644	1574098	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	6126 3957268	34845	148361	381619	1540363	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Lin2	2226 2157746	16324	72800	187618	765840	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	16006 9624845	82197	343525	894766	3738759	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	6203 3971300	37436	150867	389162	1552398	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	152927 170155	163778	161458	170236	181995	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	142281 186531	157223	155045	167397	185476	50.0 50.0	50.0	50.0	50.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 502604

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/09/2018 22:30 Calibration End Date: 03/10/2018 00:31 Calibration ID: 66902

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	483814 636508	554324	561834	587757	654361	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	166663 216082	193943	191153	203133	212588	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Mar-2018 22:30:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0068588-002
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:11:23 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: tupayachia Date: 10-Mar-2018 03:58:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.632	1.596	0.036	1	578	1.00	0.8257	a
2 Dichlorodifluoromethane	85	1.632	1.638	-0.006	68	2852	1.00	0.9807	a
3 Chloromethane	50	1.803	1.803	0.000	69	2950	1.00	0.8244	a
5 Butadiene	54	1.907	1.913	-0.006	91	1974	1.00	0.7332	
4 Vinyl chloride	62	1.907	1.913	-0.006	58	2974	1.00	0.7859	a
6 Bromomethane	94	2.205	2.212	-0.007	75	2930	1.00	0.9048	
7 Chloroethane	64	2.279	2.279	0.000	62	1531	1.00	0.8121	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	94	4956	1.00	0.8154	
8 Trichlorofluoromethane	101	2.468	2.486	-0.018	76	4467	1.00	0.7380	
10 Pentane	72	2.498	2.498	0.000	97	692	2.00	1.55	
12 Ethanol	46	2.693	2.687	0.006	86	414	40.0	45.1	M
11 Ethyl ether	59	2.699	2.699	0.000	78	2040	1.00	1.07	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	90	1380	1.00	0.99	M
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.760	-0.006	71	2134	1.00	0.7402	
15 Acrolein	56	2.882	2.882	0.000	97	32233	100.0	98.4	
16 1,1,2-Trichloro-1,2,2-trif	101	2.888	2.894	-0.006	31	2242	1.00	0.9782	
17 1,1-Dichloroethene	96	2.925	2.919	0.006	96	1839	1.00	0.9838	
18 Acetone	43	3.004	3.004	0.000	85	6891	5.00	8.11	M
19 Iodomethane	142	3.077	3.083	-0.006	92	5201	1.00	0.8129	
22 Isopropyl alcohol	45	3.120	3.083	0.037	24	1909	10.0	11.7	M
20 Carbon disulfide	76	3.114	3.120	-0.006	98	7254	1.00	0.7475	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	74	1372	1.00	0.8520	
23 Methyl acetate	43	3.254	3.248	0.006	98	8335	5.00	5.36	
24 Cyclopentene	67	3.260	3.266	-0.006	51	3662	1.00	0.9884	
29 Acetonitrile	41	3.327	3.315	0.012	40	3367	10.0	10.7	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	260305	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	82	3912	1.00	1.15	
27 2-Methyl-2-propanol	59	3.443	3.431	0.012	34	4651	10.0	12.5	M
28 Methyl tert-butyl ether	73	3.534	3.534	0.000	95	8351	1.00	1.01	
30 trans-1,2-Dichloroethene	96	3.565	3.571	-0.006	93	2226	1.00	0.7441	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	97	8619	10.0	10.5	
32 Hexane	43	3.723	3.717	0.006	73	1599	1.00	0.8318	
33 Isopropyl ether	45	3.925	3.931	-0.006	87	6896	1.00	0.9308	
35 Vinyl acetate	86	3.992	3.973	0.019	98	970	2.00	2.01	
34 1,1-Dichloroethane	63	3.973	3.973	0.000	82	4101	1.00	0.8693	
36 2-Chloro-1,3-butadiene	88	4.022	4.022	0.000	89	1718	1.00	0.7185	
37 Tert-butyl ethyl ether	59	4.260	4.254	0.006	92	7504	1.00	0.9320	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	181170	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.485	0.001	48	1617	1.00	1.01	Ma
40 cis-1,2-Dichloroethene	96	4.510	4.504	0.006	87	3272	1.00	0.9254	
42 2-Butanone (MEK)	72	4.516	4.510	0.006	92	1880	5.00	5.75	
41 Ethyl acetate	70	4.510	4.510	0.000	85	560	2.00	2.00	
44 Methyl acrylate	55	4.559	4.571	-0.012	71	1955	1.00	0.9895	a
43 Propionitrile	54	4.656	4.650	0.006	98	4047	10.0	10.7	
46 Chlorobromomethane	128	4.748	4.735	0.013	75	1700	1.00	0.9034	
45 Tetrahydrofuran	72	4.748	4.735	0.013	26	975	2.00	2.46	a
47 Methacrylonitrile	67	4.748	4.754	-0.006	90	10128	10.0	10.4	
48 Chloroform	83	4.790	4.784	0.006	98	4989	1.00	0.8874	
49 Cyclohexane	84	4.924	4.937	-0.013	31	2923	1.00	0.9824	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	96	152927	50.0	49.9	
50 1,1,1-Trichloroethane	97	4.937	4.943	-0.006	36	4410	1.00	0.8256	
52 Carbon tetrachloride	117	5.059	5.065	-0.006	93	3310	1.00	0.6937	
53 1,1-Dichloropropene	75	5.083	5.089	-0.006	92	2702	1.00	0.7414	
56 Isobutyl alcohol	74	5.174	5.193	-0.019	20	163	25.0	25.0	M
54 Benzene	78	5.290	5.290	0.000	44	8398	1.00	0.8181	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.309	5.302	0.007	0	142281	50.0	46.9	
57 Isopropyl acetate	43	5.333	5.327	0.006	50	8700	1.00	1.16	a
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	97	7808	1.00	0.8981	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	96	4305	1.00	1.07	
60 n-Heptane	57	5.430	5.430	0.000	59	996	1.00	0.9840	
* 61 Fluorobenzene	96	5.583	5.577	0.006	99	445394	50.0	50.0	
62 n-Butanol	56	5.882	5.863	0.019	33	1783	25.0	23.8	a
63 Trichloroethene	95	5.936	5.943	-0.006	92	2463	1.00	0.7958	
64 Ethyl acrylate	56	6.077	6.064	0.013	34	1081	1.00	0.7009	Ma
65 Methylcyclohexane	83	6.089	6.071	0.018	36	2701	1.00	0.9848	
66 1,2-Dichloropropane	63	6.229	6.235	-0.006	72	2623	1.00	1.03	
* 67 1,4-Dioxane-d8	96	6.284	6.284	0.000	0	21978	1000.0	1000.0	
68 Methyl methacrylate	41	6.296	6.290	0.006	83	3511	2.00	1.82	
70 n-Propyl acetate	43	6.345	6.345	0.000	85	2529	1.00	0.8918	
69 1,4-Dioxane	88	6.345	6.345	0.000	8	900	20.0	22.9	a
71 Dibromomethane	93	6.375	6.369	0.006	87	1780	1.00	0.9212	
72 Dichlorobromomethane	83	6.510	6.516	-0.006	92	3419	1.00	0.8578	
74 2-Nitropropane	41	6.839	6.845	-0.006	87	1568	2.00	2.36	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	60	854	1.00	0.7672	
75 Epichlorohydrin	57	6.961	6.955	0.007	98	4908	20.0	19.8	
76 cis-1,3-Dichloropropene	75	7.016	7.015	0.001	89	3382	1.00	0.8173	
77 4-Methyl-2-pentanone (MIBK	43	7.174	7.168	0.006	95	10746	5.00	4.80	
$ 78 Toluene-d8 (Surr)	98	7.265	7.265	0.000	97	483814	50.0	46.5	
79 Toluene	91	7.351	7.345	0.006	91	10719	1.00	0.8870	
80 trans-1,3-Dichloropropene	75	7.698	7.692	0.006	92	3016	1.00	0.8337	
81 Ethyl methacrylate	69	7.711	7.704	0.006	55	2393	1.00	0.8643	
82 1,1,2-Trichloroethane	83	7.906	7.912	-0.006	92	1940	1.00	0.9645	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.960	7.966	-0.006	92	2716	1.00	0.7707	
84 1,3-Dichloropropane	76	8.119	8.125	-0.006	90	2930	1.00	0.8204	
85 2-Hexanone	43	8.174	8.174	0.000	96	6669	5.00	4.61	
86 n-Butyl acetate	43	8.290	8.284	0.006	96	2905	1.00	1.00	
87 Chlorodibromomethane	129	8.363	8.369	-0.006	96	2986	1.00	0.8897	
88 Ethylene Dibromide	107	8.527	8.527	0.000	98	2296	1.00	0.8744	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	84	359846	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	95	7364	1.00	0.8946	
92 Ethylbenzene	106	9.204	9.198	0.006	97	3312	1.00	0.8022	
91 1,1,1,2-Tetrachloroethane	131	9.222	9.222	0.000	86	2933	1.00	0.8389	
93 m-Xylene & p-Xylene	106	9.350	9.350	0.000	0	4248	1.00	0.8406	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	1451	1.00	0.8808	
95 o-Xylene	106	9.814	9.814	0.000	93	4170	1.00	0.7971	
96 Styrene	104	9.850	9.844	0.006	93	6553	1.00	0.7827	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	95	3256	1.00	0.9342	
98 Bromoform	173	10.088	10.082	0.006	95	2170	1.00	0.9349	
99 Isopropylbenzene	105	10.204	10.198	0.006	95	9574	1.00	1.00	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	97	166663	50.0	47.0	
101 Bromobenzene	156	10.564	10.564	0.000	88	3508	1.00	0.8504	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.600	-0.012	96	3076	1.00	0.8796	
103 N-Propylbenzene	91	10.625	10.625	0.001	99	12194	1.00	0.7244	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	93	1206	1.00	1.06	
105 trans-1,4-Dichloro-2-buten	53	10.667	10.661	0.006	65	797	1.00	0.9534	
106 2-Chlorotoluene	91	10.740	10.740	0.000	91	9877	1.00	0.8254	
107 4-Ethyltoluene	105	10.740	10.740	0.000	88	11676	1.00	0.7802	
108 1,3,5-Trimethylbenzene	105	10.807	10.807	0.000	90	9201	1.00	0.6914	
109 4-Chlorotoluene	91	10.856	10.856	0.000	96	7923	1.00	0.7817	
110 Butyl Methacrylate	87	10.893	10.899	-0.006	92	2471	1.00	0.7016	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	6148	1.00	1.01	
112 1,2,4-Trimethylbenzene	105	11.161	11.167	-0.006	96	9754	1.00	0.7121	
113 sec-Butylbenzene	105	11.307	11.307	0.000	99	11173	1.00	1.01	
114 4-Isopropyltoluene	119	11.435	11.435	0.000	97	9915	1.00	1.00	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	96	6901	1.00	0.8671	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	93	221478	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.533	11.539	-0.006	91	7121	1.00	0.8905	
118 Benzyl chloride	91	11.667	11.667	0.000	97	5685	1.00	0.9092	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	91	12164	1.00	0.8438	
120 p-Diethylbenzene	119	11.771	11.777	-0.006	94	6470	1.00	0.7642	
121 n-Butylbenzene	92	11.795	11.795	0.000	97	4784	1.00	0.99	
122 1,2-Dichlorobenzene	146	11.868	11.862	0.006	98	7103	1.00	0.8736	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	95	10641	1.00	0.7017	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	89	827	1.00	1.03	
125 1,3,5-Trichlorobenzene	180	12.649	12.642	0.007	96	5870	1.00	0.8406	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	92	6126	1.00	0.8984	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	91	2226	1.00	1.00	
128 Naphthalene	128	13.331	13.331	0.000	100	16006	1.00	0.9740	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	93	6203	1.00	0.8895	
S 130 1,2-Dichloroethene, Total	100				0		2.00	1.67	
S 131 Xylenes, Total	100				0		2.00	1.64	
S 132 Total BTEX	1				0		5.00	4.15	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00250	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	1.00	Units: uL	
ACROLEIN W_00074	Amount Added:	10.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Mar-2018 17:11:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D

Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9 Operator ID:

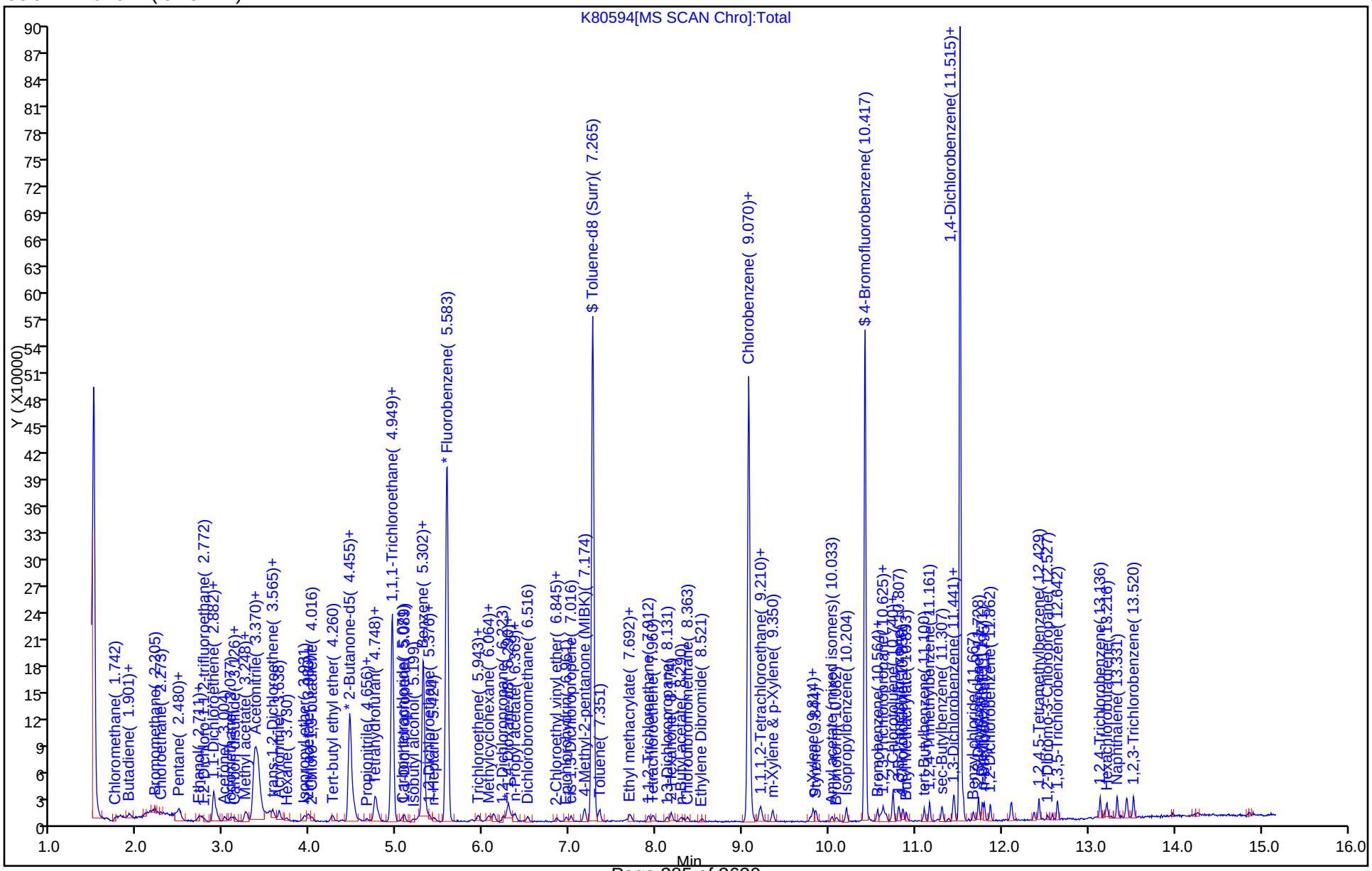
Lims ID: STD1 Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

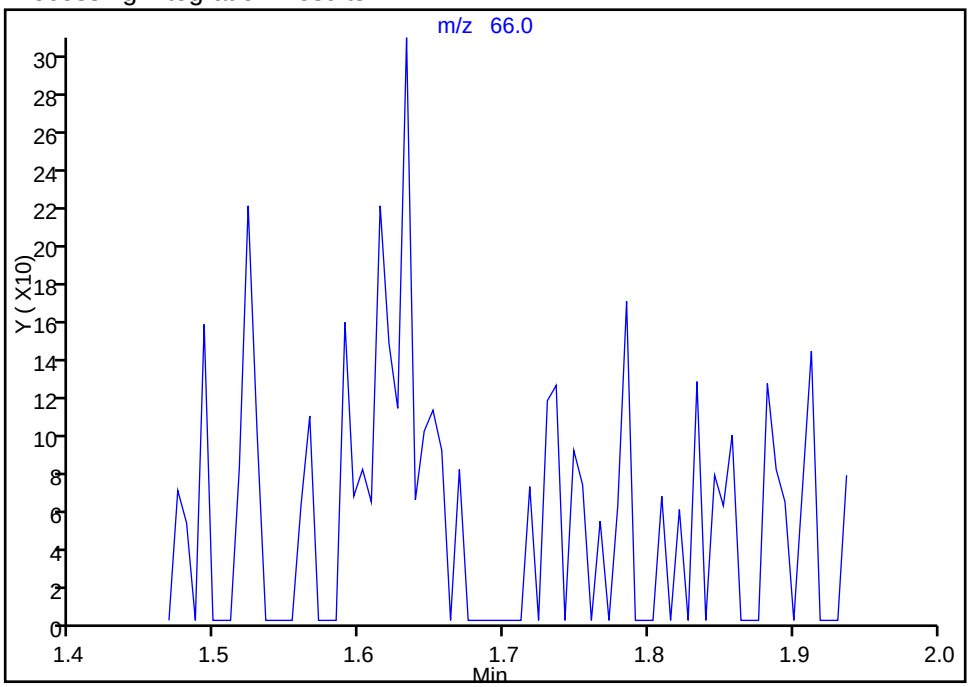
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D				
Injection Date:	09-Mar-2018 22:30:30	Instrument ID:	CVOAMS9		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

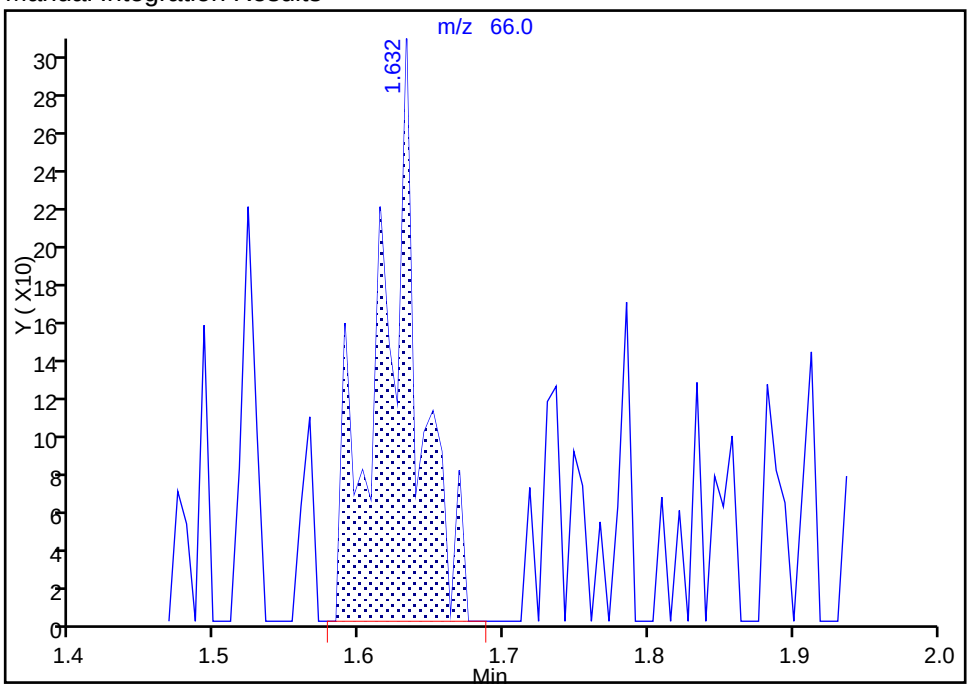
Not Detected
Expected RT: 1.60

Processing Integration Results



Manual Integration Results

RT: 1.63
Area: 578
Amount: 0.825701
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:24:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

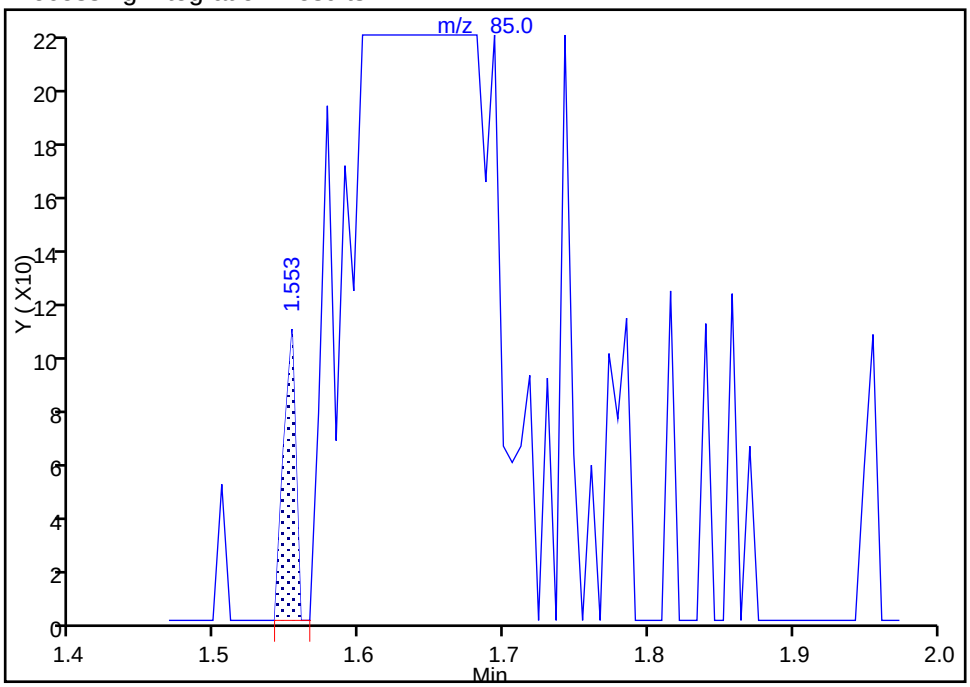
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

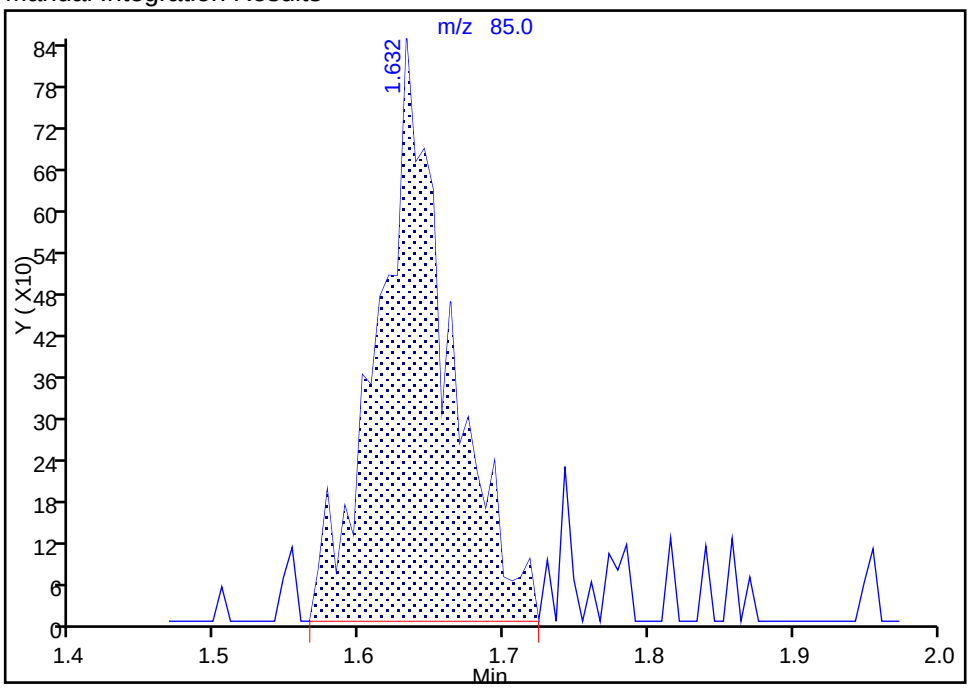
Processing Integration Results

RT: 1.55
Area: 62
Amount: 0.011927
Amount Units: ug/l



Manual Integration Results

RT: 1.63
Area: 2852
Amount: 0.980722
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:24:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

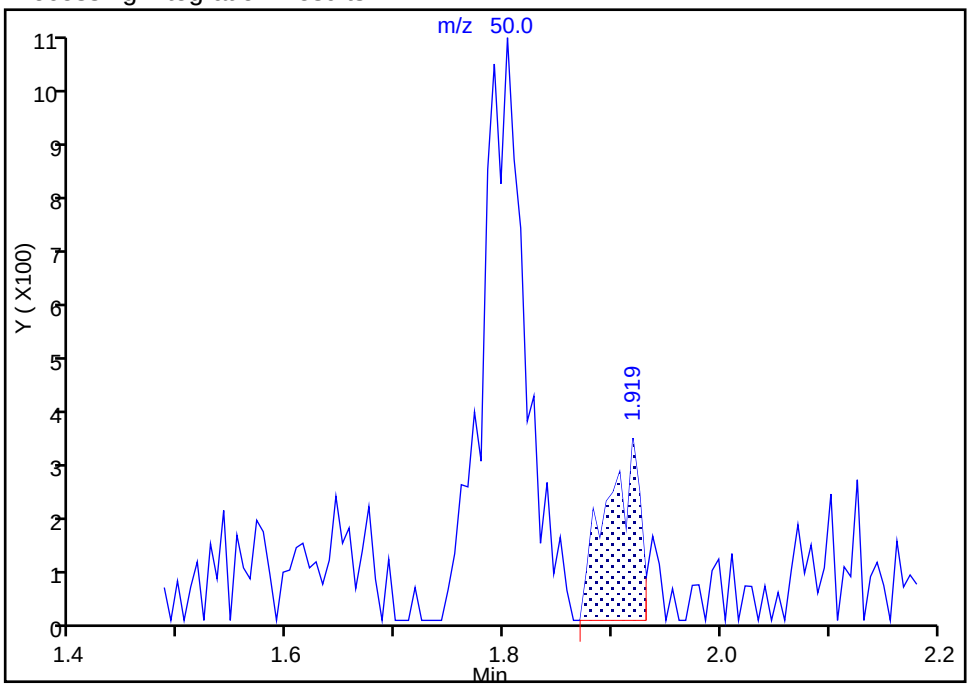
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D		
Injection Date:	09-Mar-2018 22:30:30	Instrument ID:	CVOAMS9
Lims ID:	STD1		
Client ID:			
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Chloromethane, CAS: 74-87-3

Signal: 1

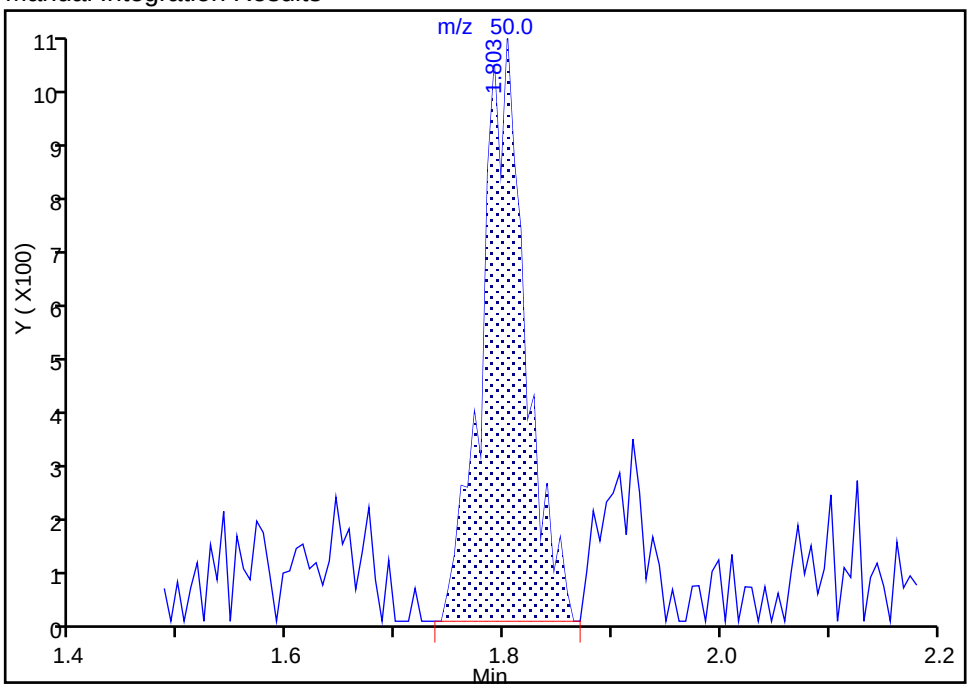
Processing Integration Results

RT: 1.92
Area: 719
Amount: 0.192542
Amount Units: ug/l



Manual Integration Results

RT: 1.80
Area: 2950
Amount: 0.824431
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:01

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

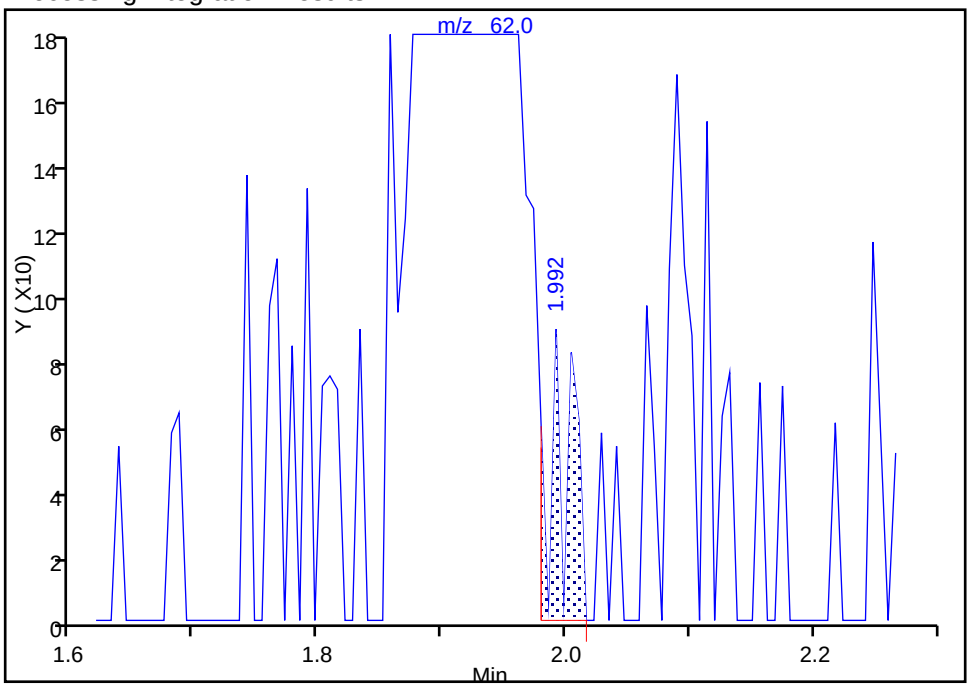
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

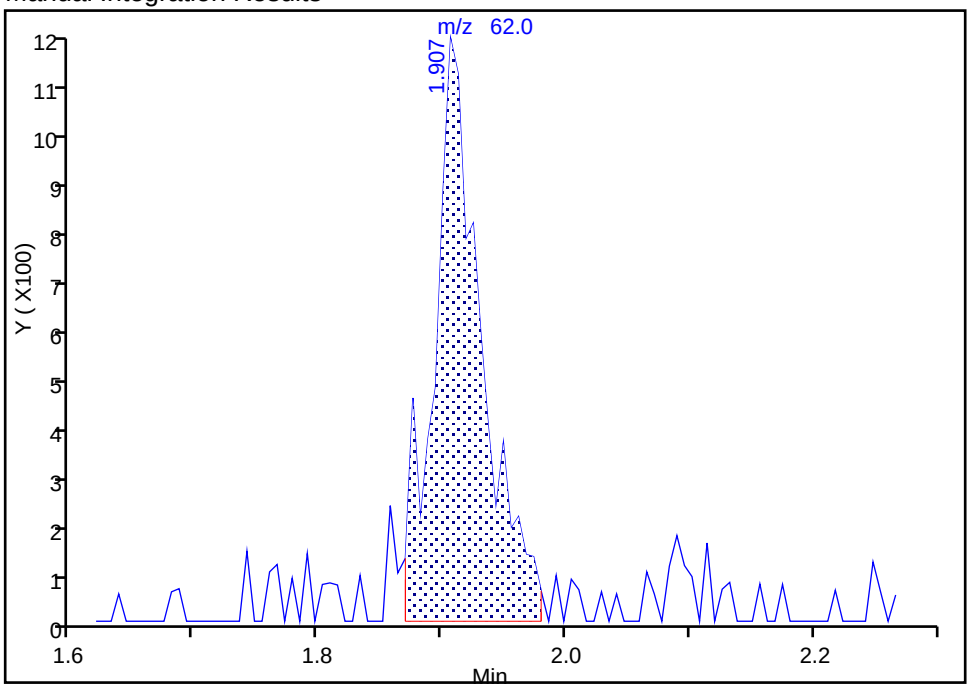
Processing Integration Results

RT: 1.99
Area: 104
Amount: 0.025930
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 2974
Amount: 0.785936
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

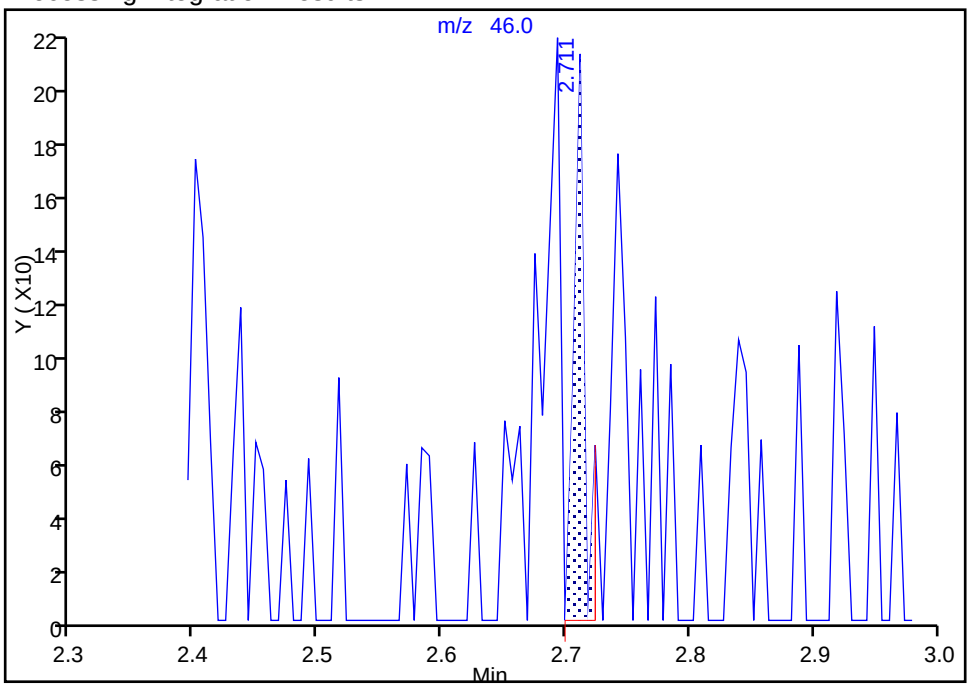
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

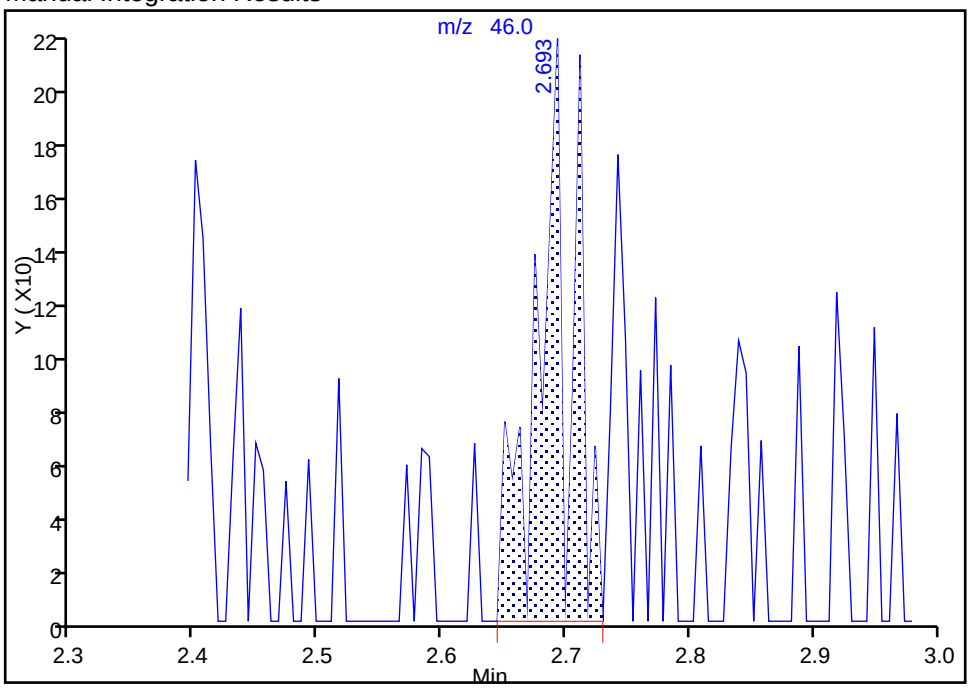
Processing Integration Results

RT: 2.71
Area: 132
Amount: 33.604059
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 414
Amount: 45.057786
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

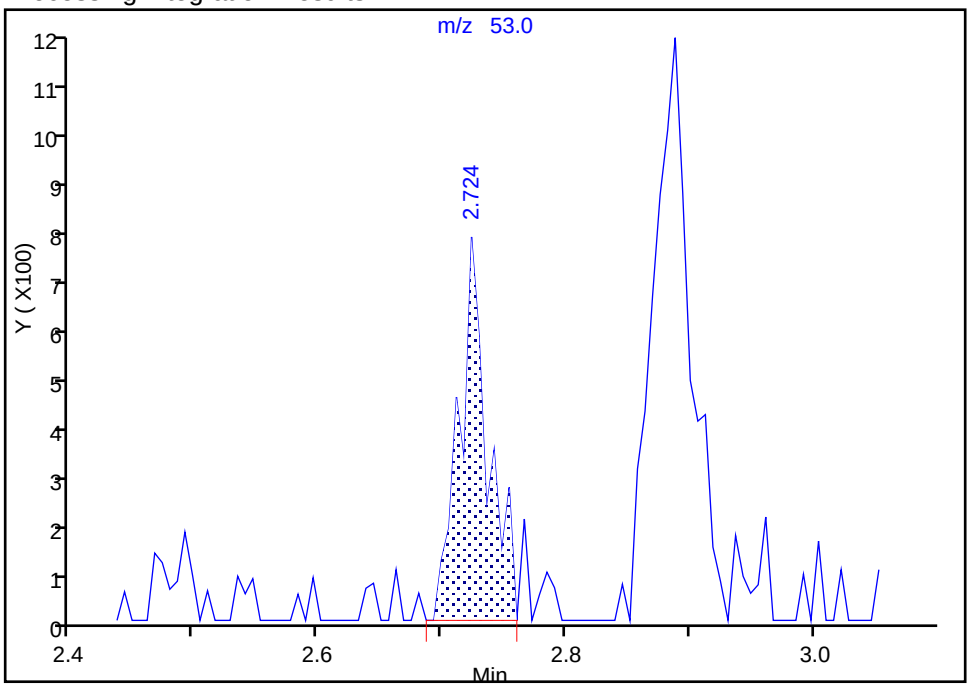
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Signal: 1

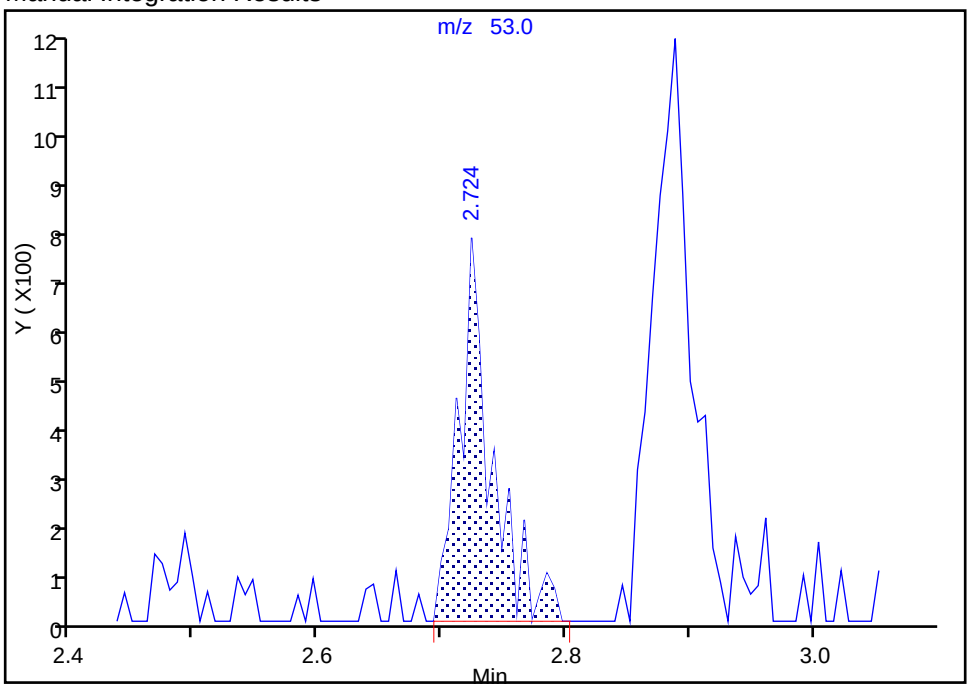
Processing Integration Results

RT: 2.72
Area: 1229
Amount: 0.535032
Amount Units: ug/l



Manual Integration Results

RT: 2.72
Area: 1380
Amount: 0.993663
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:40:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

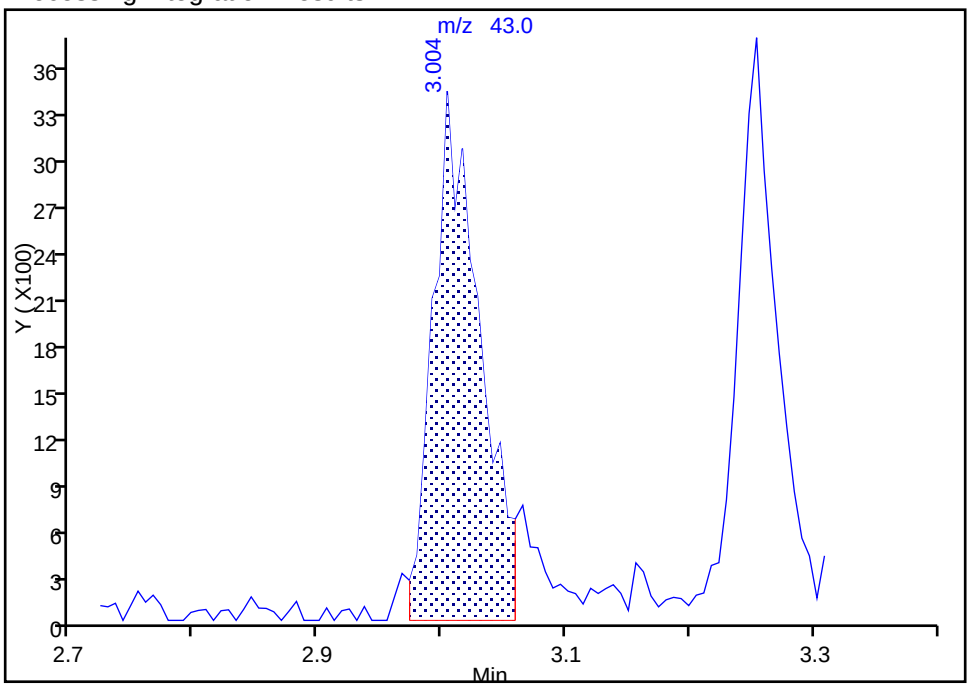
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

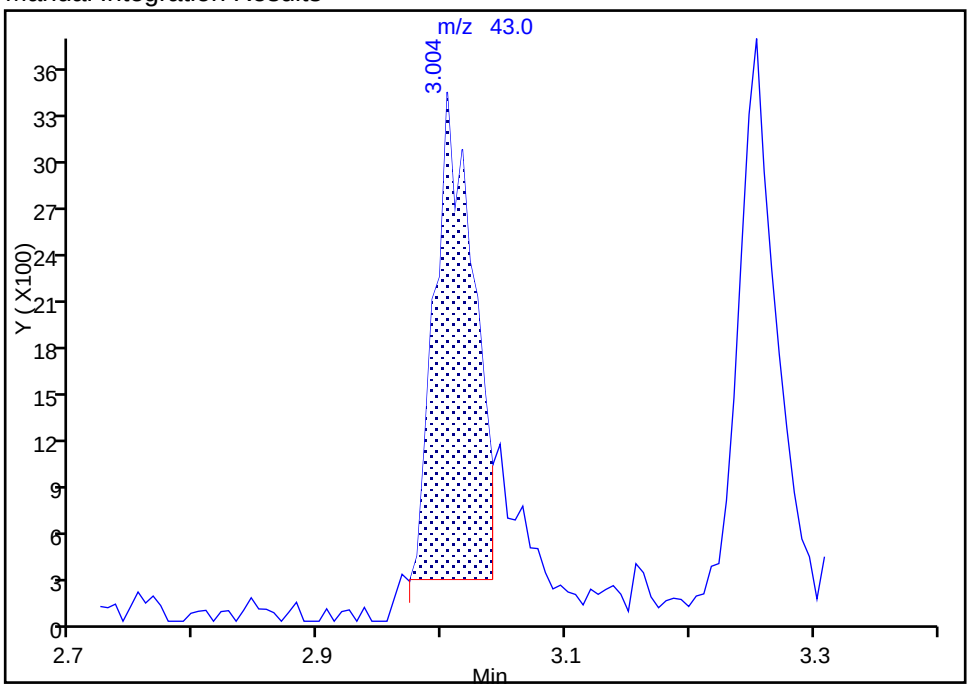
Processing Integration Results

RT: 3.00
Area: 8964
Amount: 10.548165
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 6891
Amount: 8.109753
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:40:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

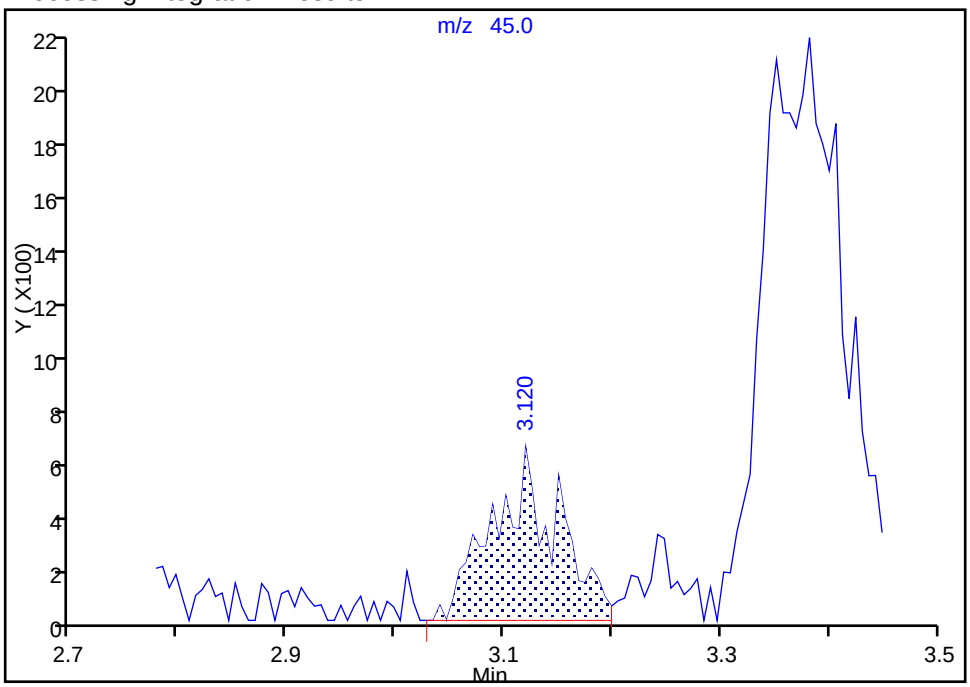
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

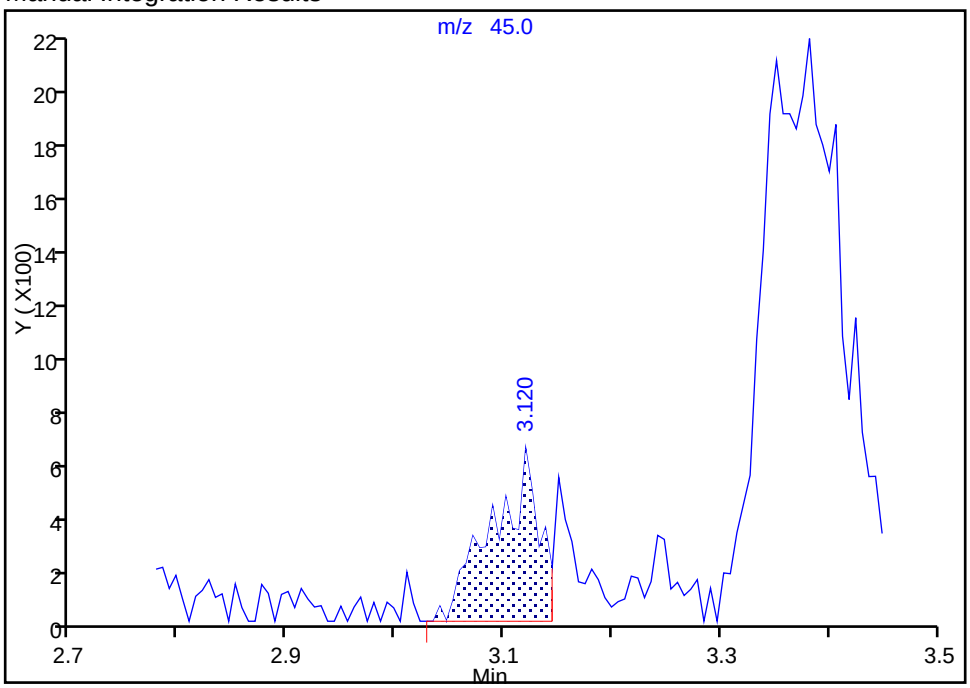
Processing Integration Results

RT: 3.12
Area: 2637
Amount: 15.289764
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 1909
Amount: 11.659848
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:40:49
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

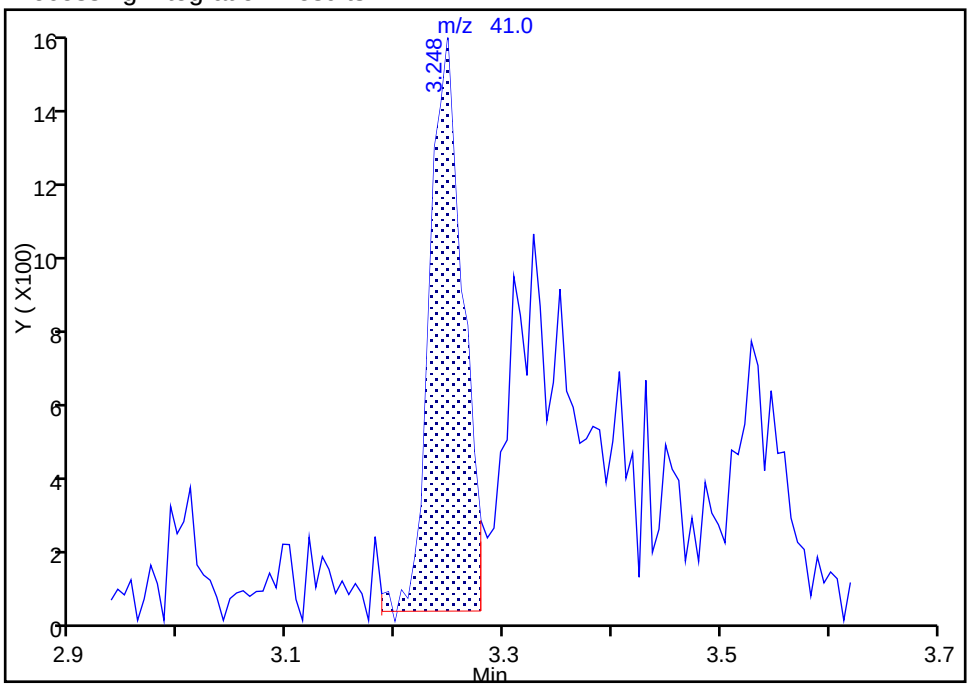
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

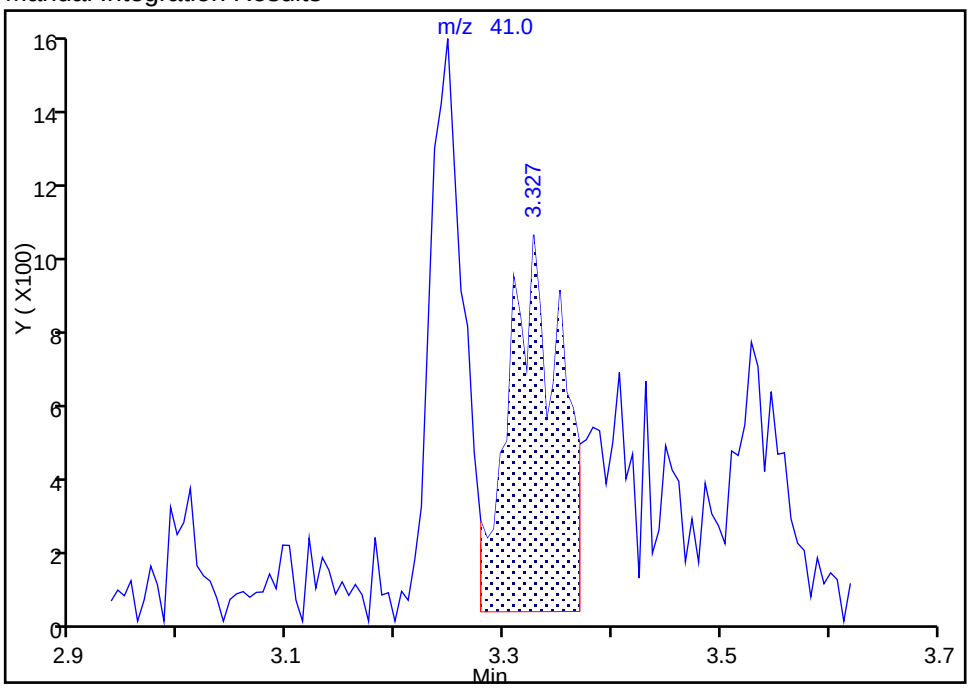
Processing Integration Results

RT: 3.25
Area: 3267
Amount: 8.068338
Amount Units: ug/l



Manual Integration Results

RT: 3.33
Area: 3367
Amount: 10.709796
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:30
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

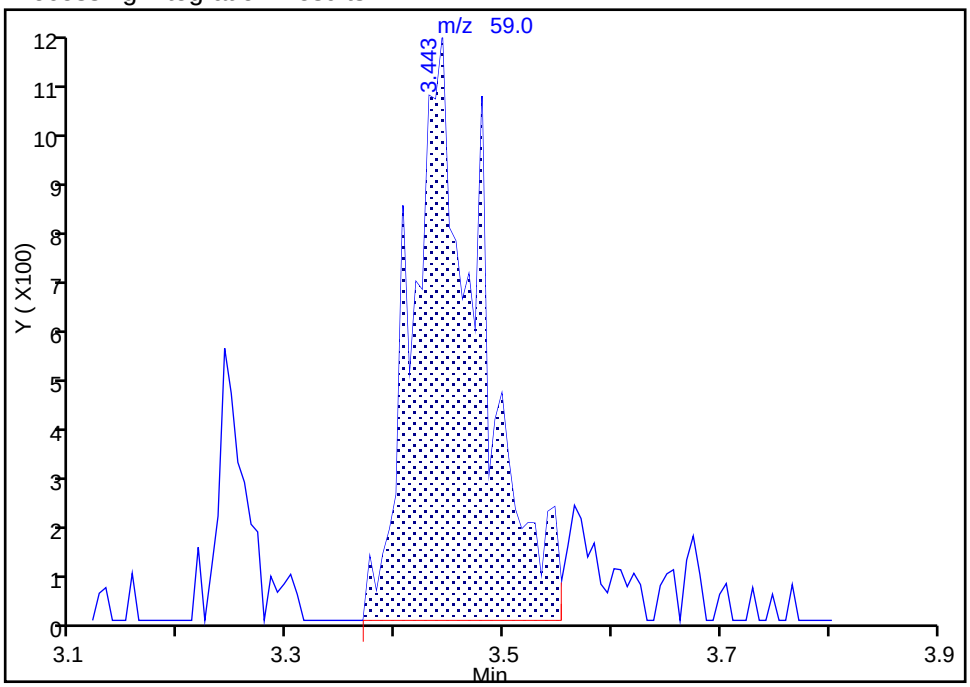
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

27 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

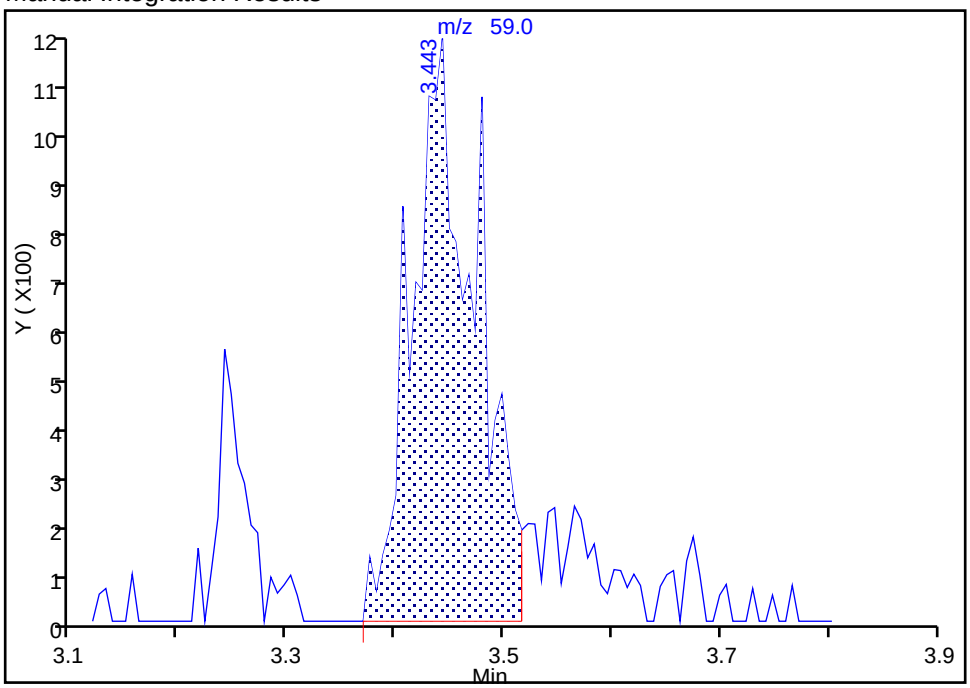
Processing Integration Results

RT: 3.44
Area: 5006
Amount: 13.809285
Amount Units: ug/l



Manual Integration Results

RT: 3.44
Area: 4651
Amount: 12.475617
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:41:58
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

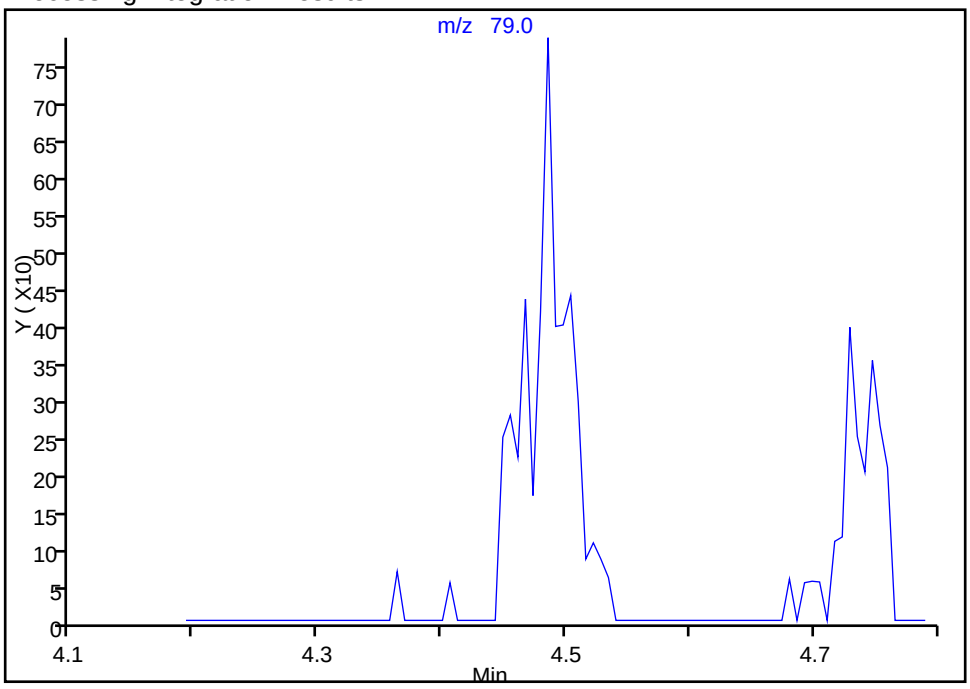
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

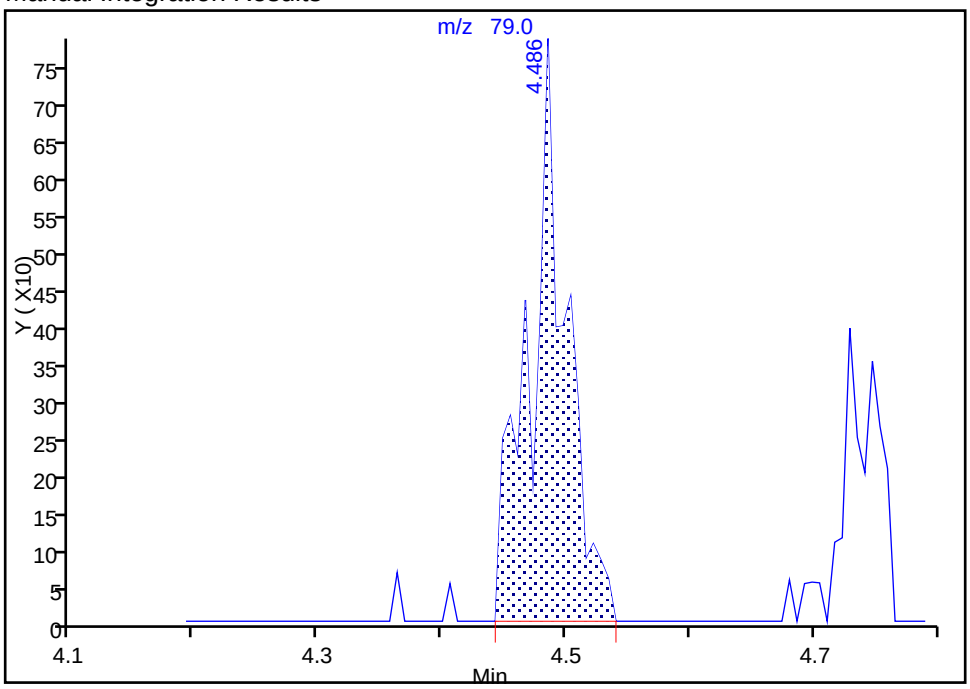
Not Detected
Expected RT: 4.49

Processing Integration Results



Manual Integration Results

RT: 4.49
Area: 1617
Amount: 1.014331
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

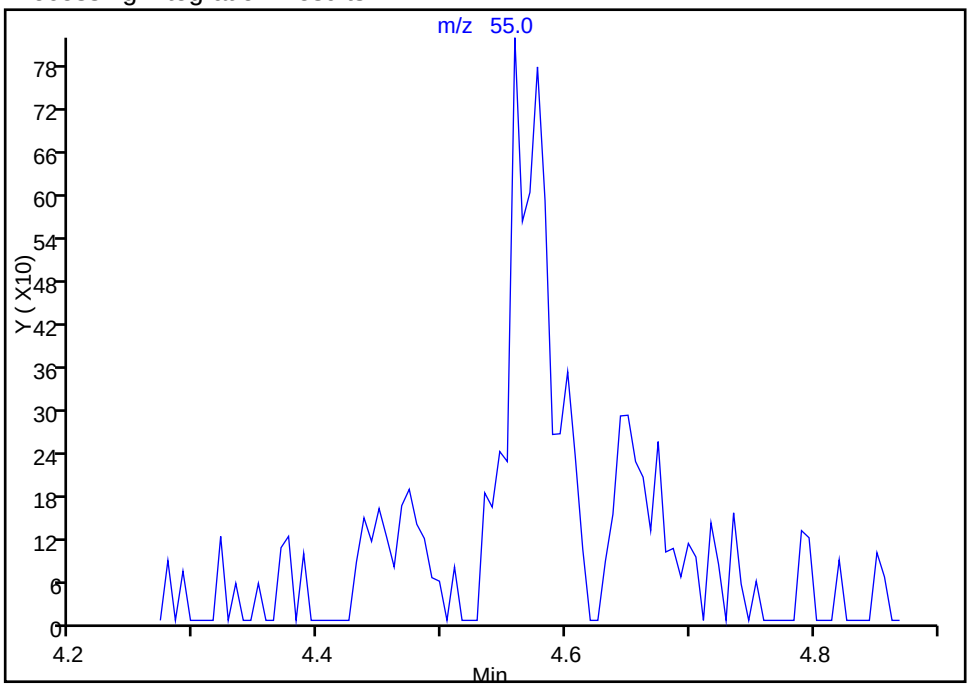
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

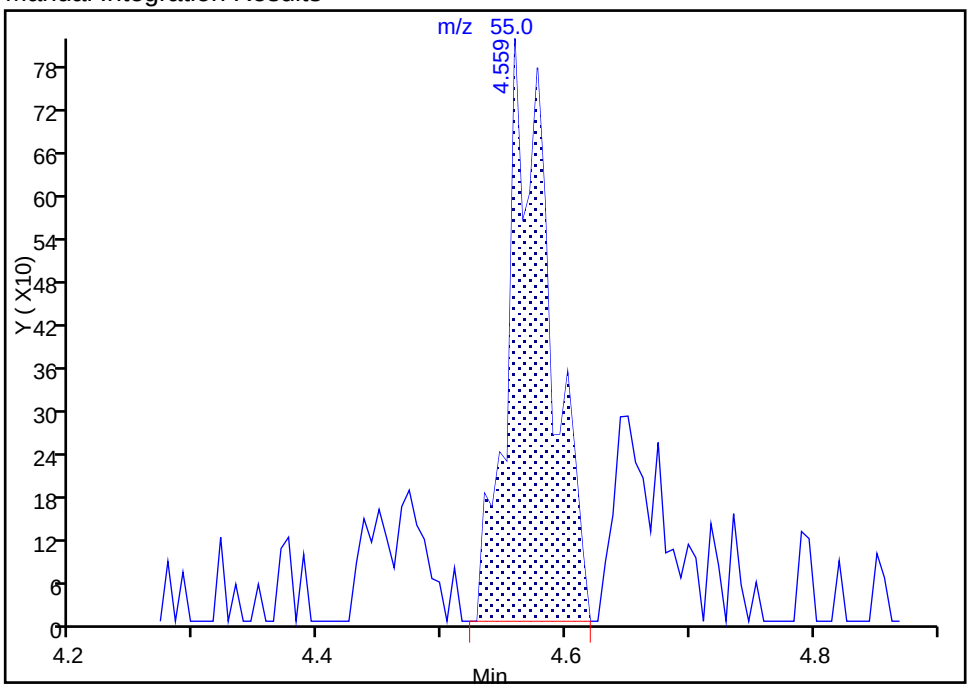
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 1955
Amount: 0.989537
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:51
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

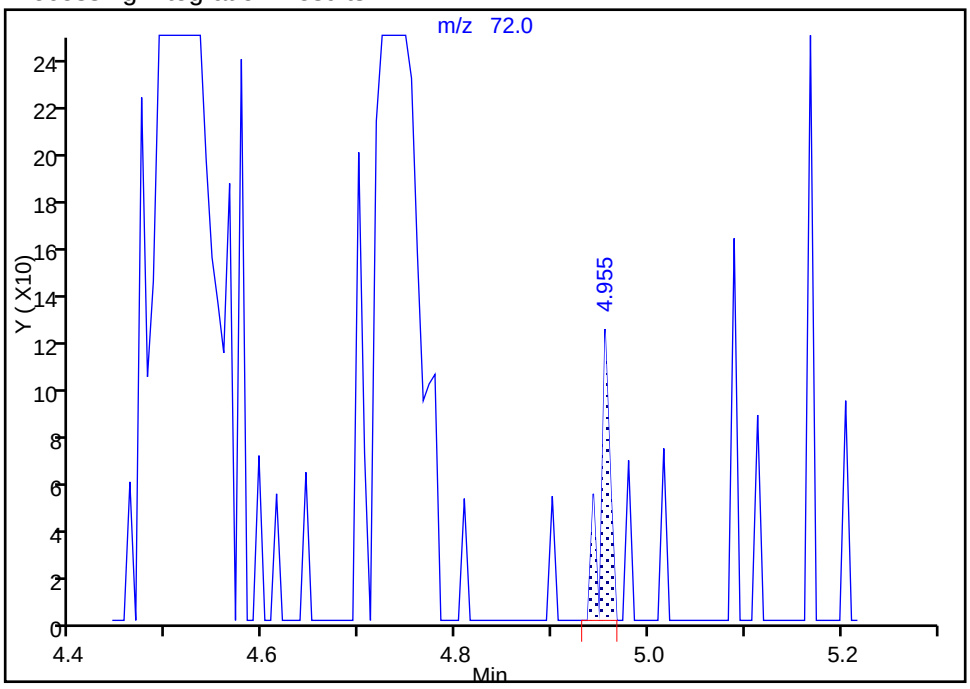
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

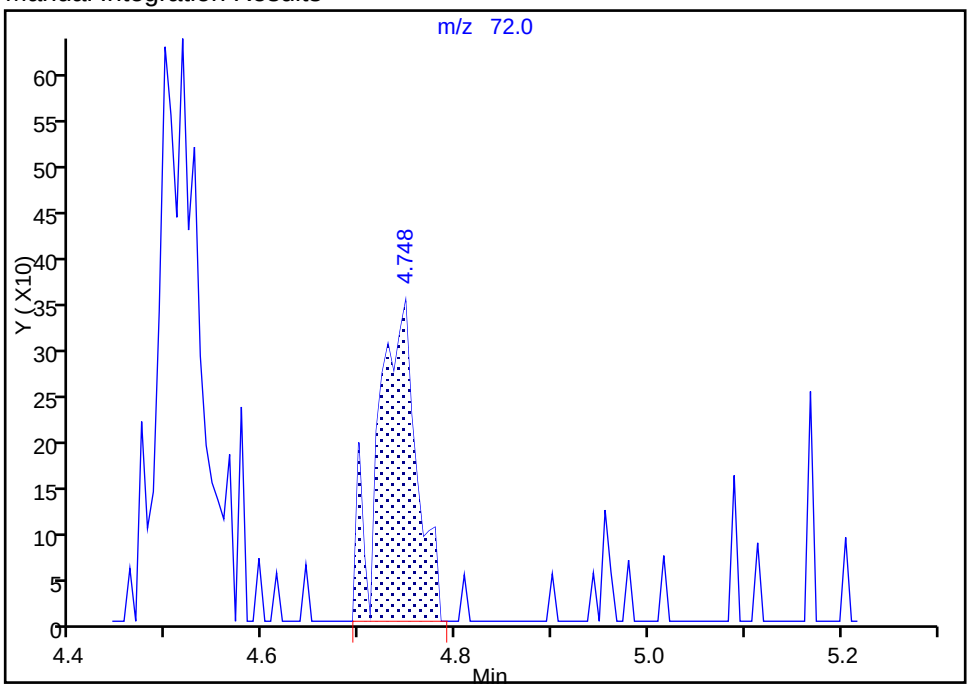
Processing Integration Results

RT: 4.95
Area: 84
Amount: 0.212576
Amount Units: ug/l



Manual Integration Results

RT: 4.75
Area: 975
Amount: 2.464804
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:25:55
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

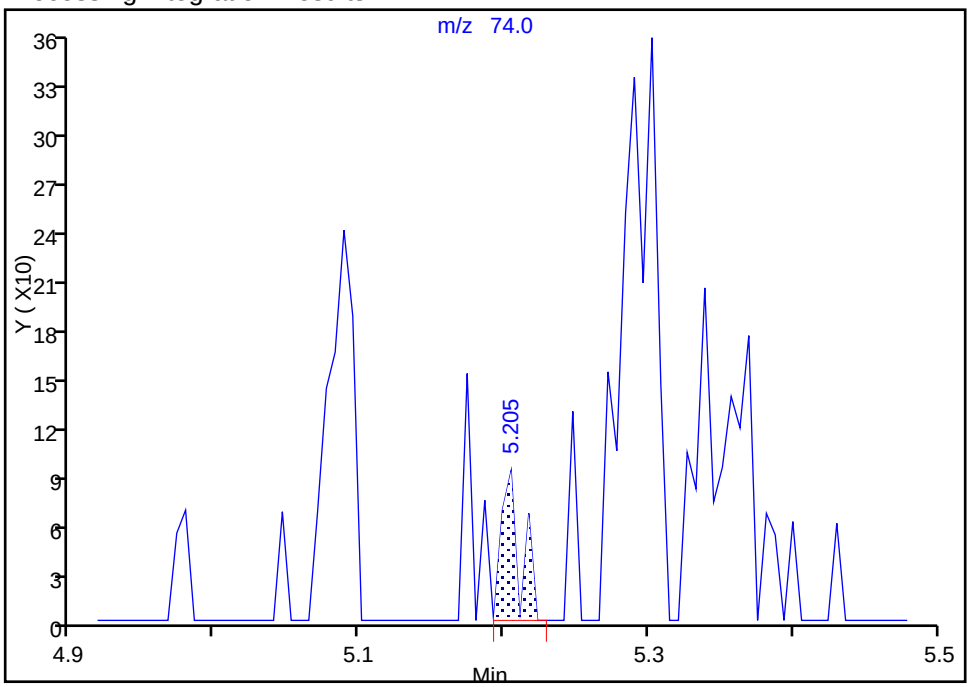
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

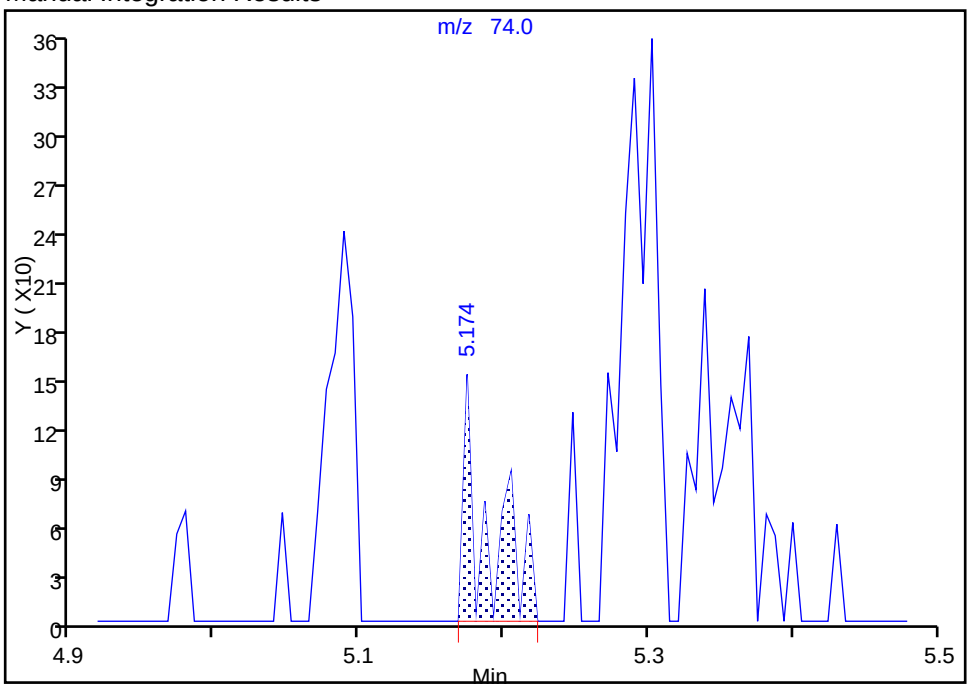
Processing Integration Results

RT: 5.20
Area: 82
Amount: 7.006477
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 163
Amount: 24.955757
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:26:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

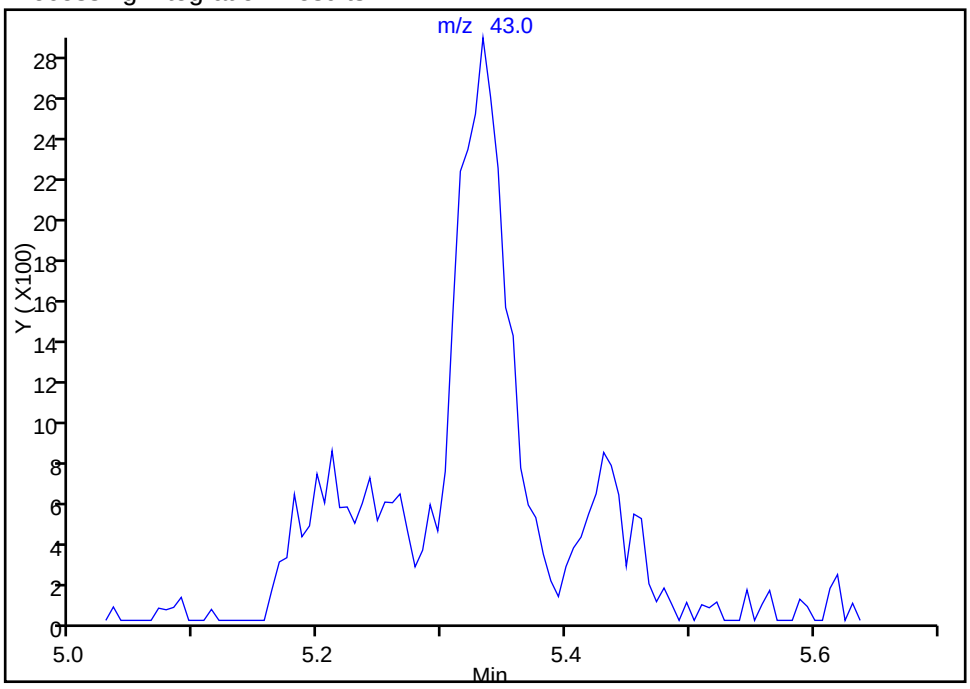
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

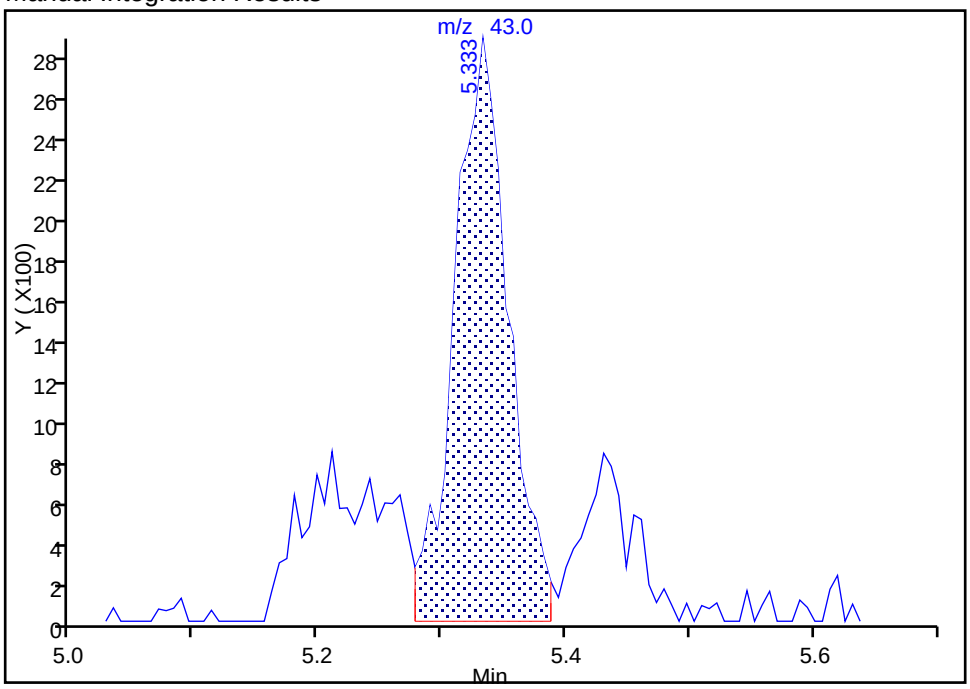
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 8700
Amount: 1.161811
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:26:12
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

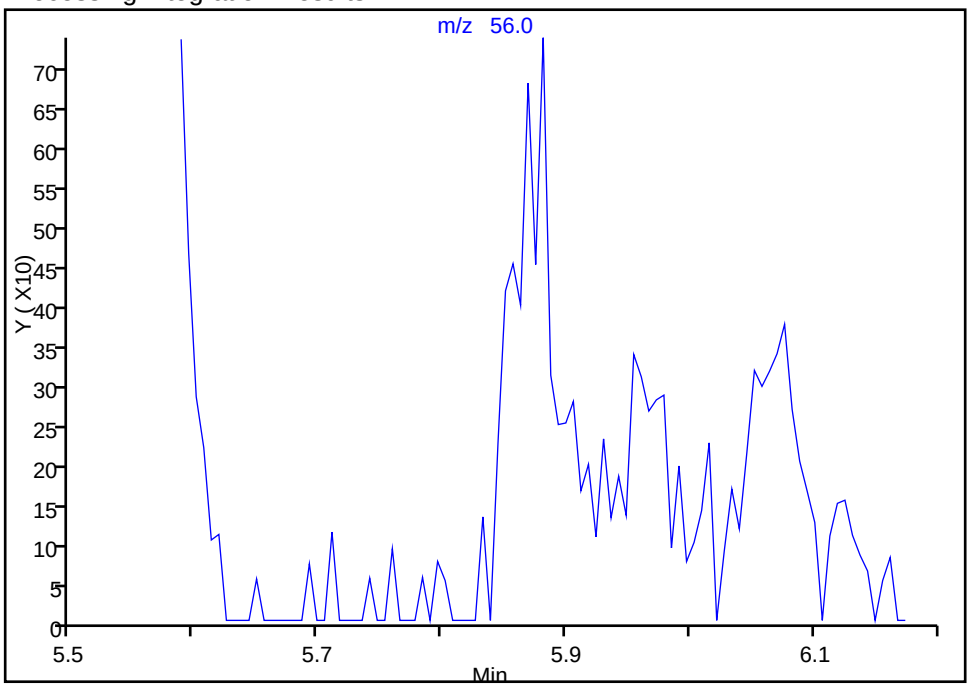
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

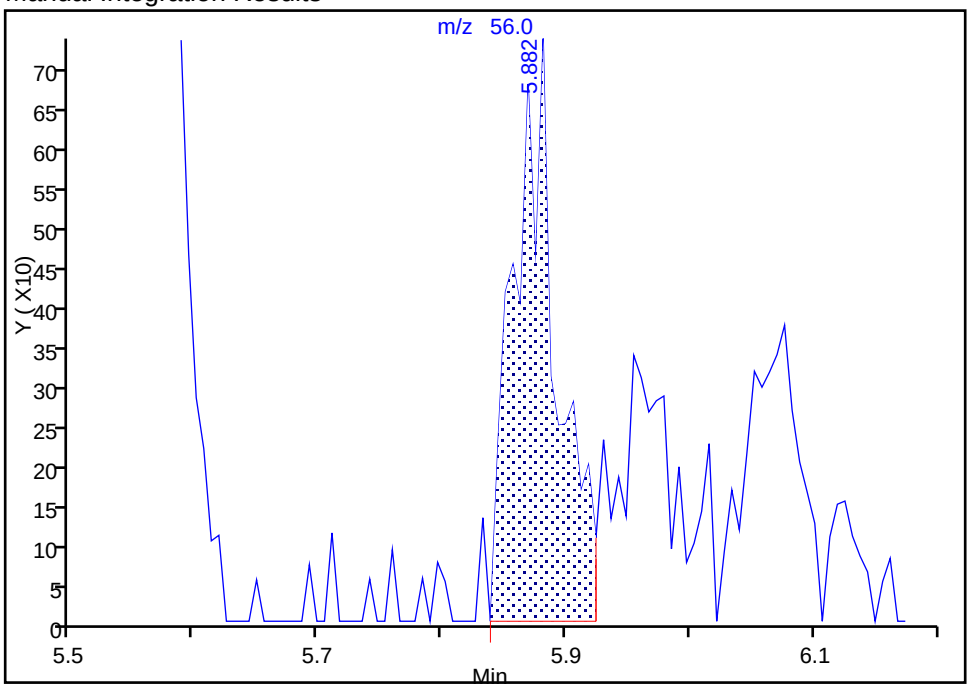
Not Detected
Expected RT: 5.86

Processing Integration Results



Manual Integration Results

RT: 5.88
Area: 1783
Amount: 23.840762
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:26:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

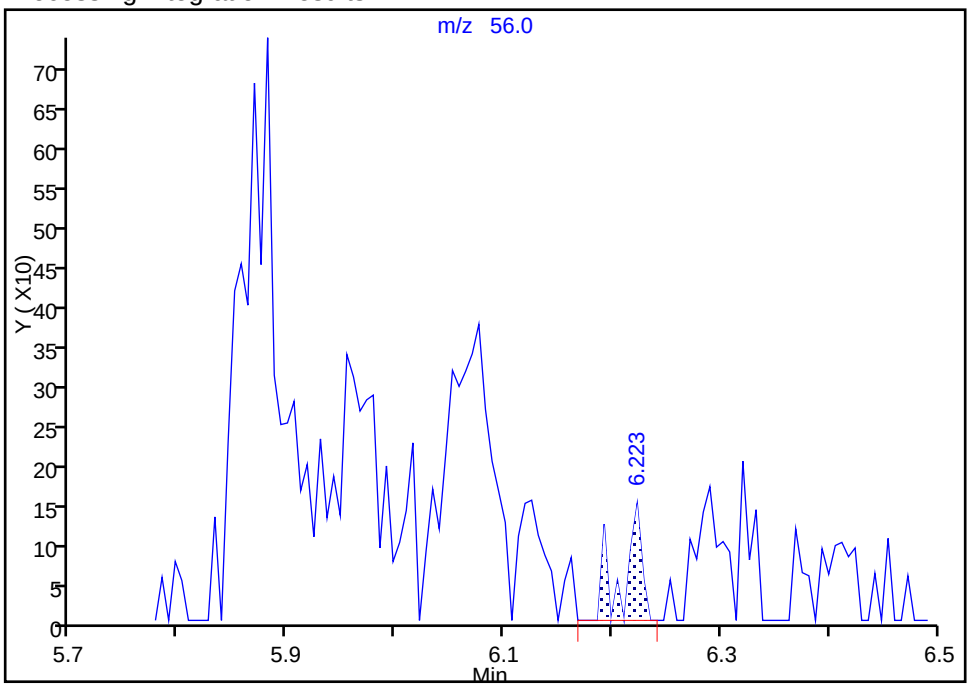
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

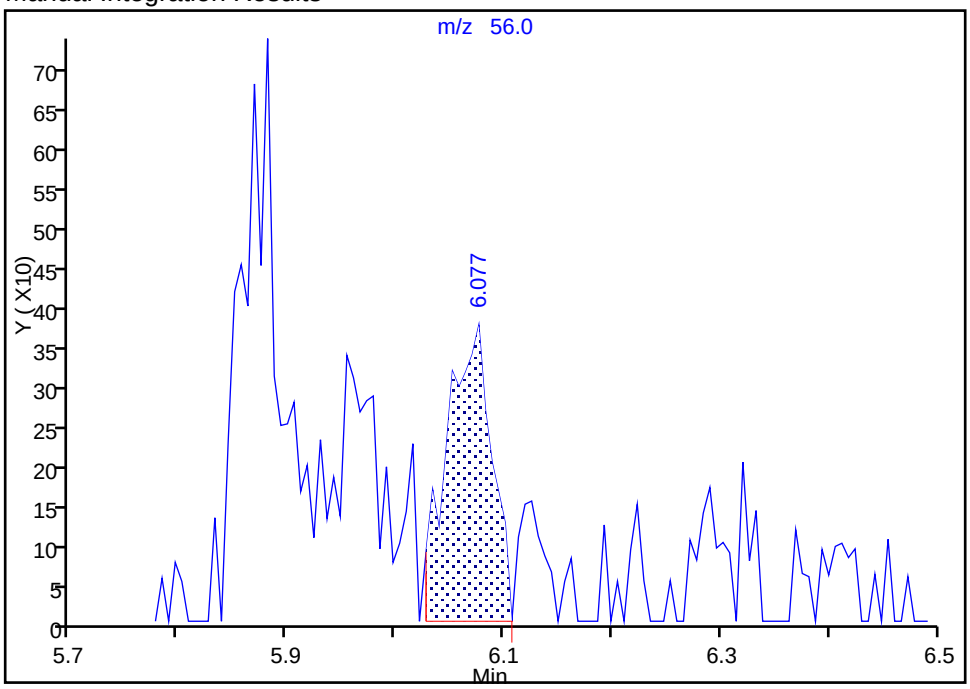
Processing Integration Results

RT: 6.22
Area: 168
Amount: 0.125577
Amount Units: ug/l



Manual Integration Results

RT: 6.08
Area: 1081
Amount: 0.700855
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:26:39
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

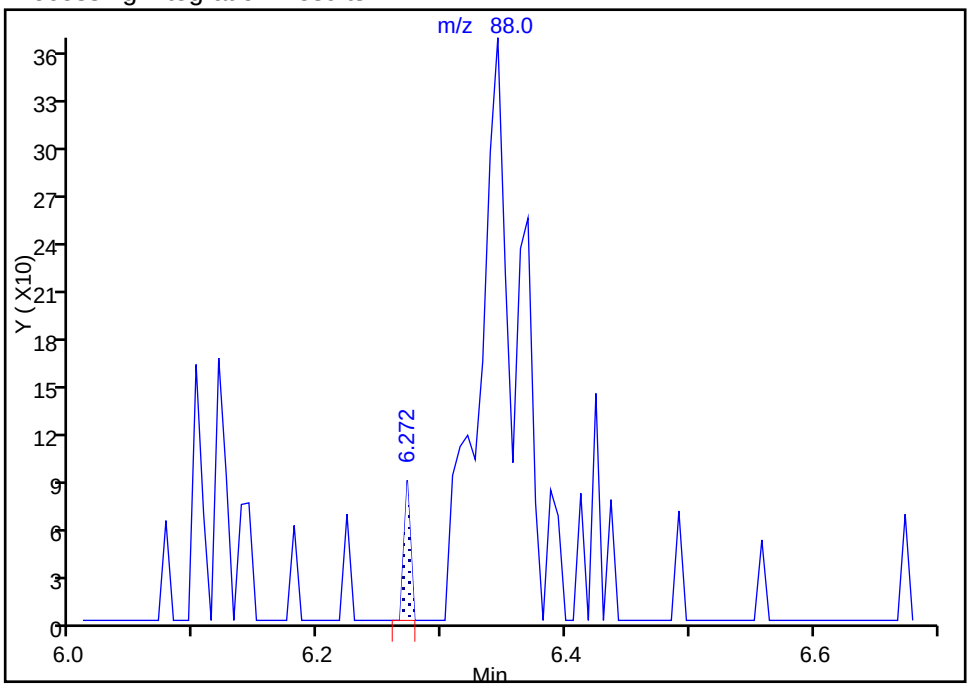
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80594.D
Injection Date: 09-Mar-2018 22:30:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

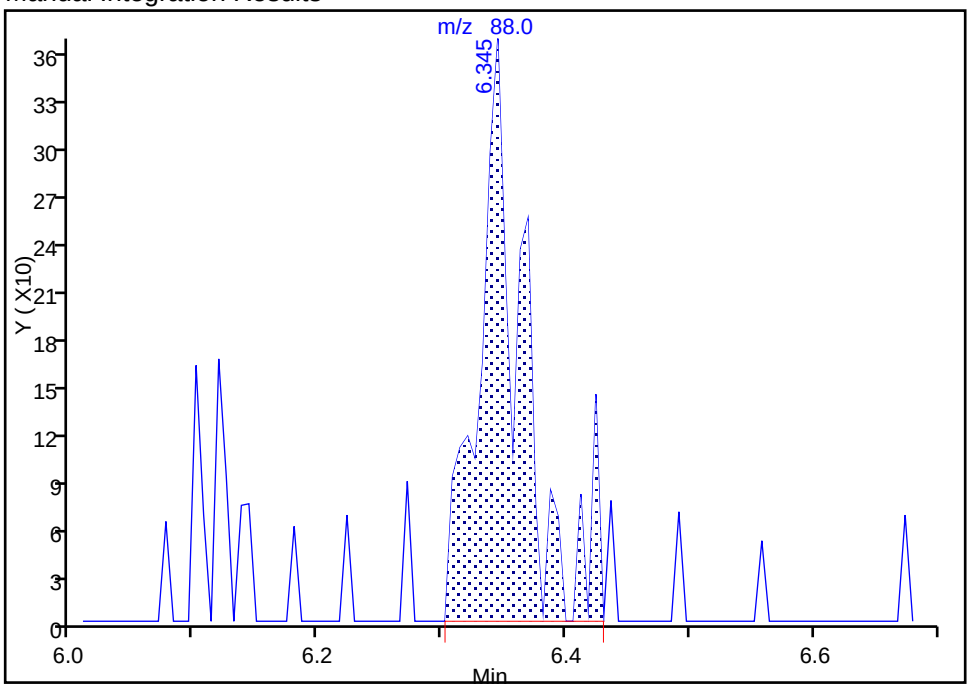
Processing Integration Results

RT: 6.27
Area: 32
Amount: 0.810880
Amount Units: ug/l



Manual Integration Results

RT: 6.34
Area: 900
Amount: 22.939199
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:26:46
Audit Action: Assigned Compound ID Audit Reason: Peak Tail

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Mar-2018 22:54:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0068588-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:11:35 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: tupayachia Date: 10-Mar-2018 03:52:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.590	1.596	-0.006	86	3993	5.00	5.63	
2 Dichlorodifluoromethane	85	1.620	1.638	-0.018	99	25603	5.00	5.39	
3 Chloromethane	50	1.791	1.803	-0.012	99	19496	5.00	5.38	
4 Vinyl chloride	62	1.901	1.913	-0.012	97	20956	5.00	5.46	
5 Butadiene	54	1.895	1.913	-0.018	91	13798	5.00	5.06	
6 Bromomethane	94	2.199	2.212	-0.013	98	17506	5.00	5.33	
7 Chloroethane	64	2.254	2.279	-0.025	99	10048	5.00	5.26	
9 Dichlorofluoromethane	67	2.462	2.474	-0.012	97	33112	5.00	5.38	
8 Trichlorofluoromethane	101	2.468	2.486	-0.018	73	34232	5.00	5.58	
10 Pentane	72	2.492	2.498	-0.006	92	4451	10.0	10.7	
12 Ethanol	46	2.638	2.687	-0.049	1	1729	200.0	201.4	Ma
11 Ethyl ether	59	2.687	2.699	-0.012	94	10471	5.00	5.40	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	97	10519	5.00	5.05	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.760	-0.024	90	16039	5.00	5.49	
15 Acrolein	56	2.870	2.882	-0.012	97	60201	200.0	196.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.882	2.894	-0.012	97	19894	5.00	5.44	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	97	15197	5.00	5.29	
18 Acetone	43	2.998	3.004	-0.006	85	23466	25.0	28.4	
22 Isopropyl alcohol	45	3.083	3.083	0.000	18	5642	50.0	36.9	Ma
19 Iodomethane	142	3.077	3.083	-0.006	100	33931	5.00	5.23	
20 Carbon disulfide	76	3.114	3.120	-0.006	98	51390	5.00	5.23	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	78	8562	5.00	5.25	
23 Methyl acetate	43	3.236	3.248	-0.012	97	38910	25.0	24.7	
24 Cyclopentene	67	3.260	3.266	-0.006	92	30324	5.00	5.19	
29 Acetonitrile	41	3.303	3.315	-0.012	87	12039	50.0	41.0	a
* 25 TBA-d9 (IS)	65	3.352	3.358	-0.006	0	243233	1000.0	1000.0	
26 Methylene Chloride	84	3.364	3.376	-0.012	83	17959	5.00	5.22	
27 2-Methyl-2-propanol	59	3.425	3.431	-0.006	94	17913	50.0	51.4	
28 Methyl tert-butyl ether	73	3.522	3.534	-0.012	95	43443	5.00	5.17	
30 trans-1,2-Dichloroethene	96	3.559	3.571	-0.012	90	16596	5.00	5.47	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	90	40691	50.0	49.1	
32 Hexane	43	3.711	3.717	-0.006	90	10048	5.00	5.16	
33 Isopropyl ether	45	3.919	3.931	-0.012	94	40542	5.00	5.40	
34 1,1-Dichloroethane	63	3.967	3.973	-0.006	92	24702	5.00	5.17	
35 Vinyl acetate	86	3.980	3.973	0.007	99	4619	10.0	10.3	
36 2-Chloro-1,3-butadiene	88	4.010	4.022	-0.012	90	12951	5.00	5.34	
37 Tert-butyl ethyl ether	59	4.248	4.254	-0.006	91	42073	5.00	5.16	
* 38 2-Butanone-d5	46	4.449	4.455	-0.006	0	175814	250.0	250.0	
39 2,2-Dichloropropane	79	4.479	4.485	-0.006	76	8038	5.00	4.98	
40 cis-1,2-Dichloroethene	96	4.498	4.504	-0.006	93	19117	5.00	5.34	
41 Ethyl acetate	70	4.504	4.510	-0.006	96	2989	10.0	11.0	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	98	8115	25.0	25.6	
44 Methyl acrylate	55	4.565	4.571	-0.006	99	9981	5.00	4.98	
43 Propionitrile	54	4.644	4.650	-0.006	96	17650	50.0	49.9	
45 Tetrahydrofuran	72	4.735	4.735	0.000	63	3983	10.0	10.4	
46 Chlorobromomethane	128	4.735	4.735	0.000	66	10805	5.00	5.67	
47 Methacrylonitrile	67	4.748	4.754	-0.006	92	50269	50.0	51.0	
48 Chloroform	83	4.778	4.784	-0.006	99	30386	5.00	5.33	
49 Cyclohexane	84	4.924	4.937	-0.013	47	23426	5.00	5.34	
50 1,1,1-Trichloroethane	97	4.937	4.943	-0.006	41	27635	5.00	5.11	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	97	163778	50.0	52.7	
52 Carbon tetrachloride	117	5.059	5.065	-0.006	96	25672	5.00	5.31	
53 1,1-Dichloropropene	75	5.083	5.089	-0.006	95	19271	5.00	5.22	
56 Isobutyl alcohol	74	5.193	5.193	0.000	88	1485	125.0	128.4	
54 Benzene	78	5.284	5.290	-0.006	73	56330	5.00	5.28	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.302	5.302	0.000	0	157223	50.0	51.2	
57 Isopropyl acetate	43	5.327	5.327	0.000	98	37372	5.00	4.92	
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	96	46005	5.00	5.22	
59 1,2-Dichloroethane	62	5.376	5.382	-0.006	98	21289	5.00	5.21	
60 n-Heptane	57	5.430	5.430	0.000	88	10216	5.00	5.34	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	451384	50.0	50.0	
62 n-Butanol	56	5.863	5.863	0.000	89	7523	125.0	107.7	
63 Trichloroethene	95	5.936	5.943	-0.006	96	16844	5.00	5.37	
64 Ethyl acrylate	56	6.064	6.064	0.000	84	8224	5.00	5.26	
65 Methylcyclohexane	83	6.064	6.071	-0.007	92	27087	5.00	5.31	
66 1,2-Dichloropropane	63	6.229	6.235	-0.006	85	13382	5.00	5.20	
* 67 1,4-Dioxane-d8	96	6.272	6.284	-0.012	0	21811	1000.0	1000.0	
68 Methyl methacrylate	41	6.284	6.290	-0.006	83	19610	10.0	10.0	
69 1,4-Dioxane	88	6.345	6.345	0.000	28	4115	100.0	105.7	M
70 n-Propyl acetate	43	6.345	6.345	0.000	98	14300	5.00	4.98	
71 Dibromomethane	93	6.363	6.369	-0.006	91	10263	5.00	5.24	
72 Dichlorobromomethane	83	6.510	6.516	-0.006	97	21274	5.00	5.27	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	71	6112	5.00	5.42	
74 2-Nitropropane	41	6.851	6.845	0.006	89	5745	10.0	8.53	
75 Epichlorohydrin	57	6.955	6.955	0.001	98	23901	100.0	99.3	
76 cis-1,3-Dichloropropene	75	7.016	7.015	0.001	92	22392	5.00	5.20	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	95	53277	25.0	24.5	
$ 78 Toluene-d8 (Surr)	98	7.265	7.265	0.000	98	554324	50.0	51.2	
79 Toluene	91	7.339	7.345	-0.006	93	64104	5.00	5.10	
80 trans-1,3-Dichloropropene	75	7.686	7.692	-0.006	98	19094	5.00	5.07	
81 Ethyl methacrylate	69	7.704	7.704	0.000	86	13821	5.00	4.80	
82 1,1,2-Trichloroethane	83	7.918	7.912	0.006	93	10924	5.00	5.22	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.967	7.966	0.001	96	19294	5.00	5.26	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	89	20348	5.00	5.48	
85 2-Hexanone	43	8.168	8.174	-0.006	94	34400	25.0	24.5	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	14733	5.00	4.90	
87 Chlorodibromomethane	129	8.369	8.369	0.000	97	17327	5.00	4.96	
88 Ethylene Dibromide	107	8.527	8.527	0.000	97	14518	5.00	5.31	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	83	374339	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	98	45795	5.00	5.35	
92 Ethylbenzene	106	9.204	9.198	0.006	98	22197	5.00	5.17	
91 1,1,1,2-Tetrachloroethane	131	9.222	9.222	0.000	96	17909	5.00	4.92	
93 m-Xylene & p-Xylene	106	9.350	9.350	0.000	0	26355	5.00	5.01	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	8014	5.00	4.68	
95 o-Xylene	106	9.814	9.814	0.000	93	26955	5.00	4.95	
96 Styrene	104	9.844	9.844	0.000	93	43298	5.00	4.97	
97 Amyl acetate (mixed isomer	43	10.027	10.033	-0.006	92	16076	5.00	4.52	
98 Bromoform	173	10.082	10.082	0.000	97	11850	5.00	4.91	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	76457	5.00	4.98	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	96	193943	50.0	52.6	
101 Bromobenzene	156	10.558	10.564	-0.006	89	21853	5.00	5.19	
102 1,1,2,2-Tetrachloroethane	83	10.594	10.600	-0.006	98	18096	5.00	5.07	
103 N-Propylbenzene	91	10.625	10.625	0.001	99	86588	5.00	5.04	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	91	6045	5.00	5.21	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	92	4377	5.00	5.13	
107 4-Ethyltoluene	105	10.740	10.740	0.000	94	75849	5.00	4.97	
106 2-Chlorotoluene	91	10.734	10.740	-0.006	96	61565	5.00	5.04	
108 1,3,5-Trimethylbenzene	105	10.807	10.807	0.000	93	66633	5.00	4.90	
109 4-Chlorotoluene	91	10.856	10.856	0.000	96	52852	5.00	5.11	
110 Butyl Methacrylate	87	10.899	10.899	0.000	90	15617	5.00	4.34	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	52698	5.00	4.76	
112 1,2,4-Trimethylbenzene	105	11.161	11.167	-0.006	97	70048	5.00	5.01	
113 sec-Butylbenzene	105	11.307	11.307	0.000	99	81885	5.00	4.74	
114 4-Isopropyltoluene	119	11.435	11.435	0.000	98	78280	5.00	5.03	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	98	43157	5.00	5.31	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	93	226089	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	43898	5.00	5.38	
118 Benzyl chloride	91	11.667	11.667	0.000	98	29380	5.00	4.60	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	93	73418	5.00	4.99	
120 p-Diethylbenzene	119	11.771	11.777	-0.006	96	42229	5.00	4.89	
121 n-Butylbenzene	92	11.795	11.795	0.000	98	37926	5.00	5.12	
122 1,2-Dichlorobenzene	146	11.862	11.862	0.000	98	43901	5.00	5.29	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	96	75323	5.00	4.87	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	92	4394	5.00	5.38	
125 1,3,5-Trichlorobenzene	180	12.642	12.642	0.000	97	36733	5.00	5.15	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	96	34845	5.00	5.01	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	94	16324	5.00	4.89	
128 Naphthalene	128	13.331	13.331	0.000	99	82197	5.00	4.90	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	97	37436	5.00	5.26	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.8	
S 131 Xylenes, Total	100				0		10.0	9.97	
S 132 Total BTEX	1				0		25.0	25.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00250	Amount Added:	0.50	Units: uL	
8260MIX1COMB_00074	Amount Added:	0.50	Units: uL	
ACROLEIN W_00074	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Mar-2018 17:11:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D

Injection Date: 09-Mar-2018 22:54:30 Instrument ID: CVOAMS9 Operator ID:

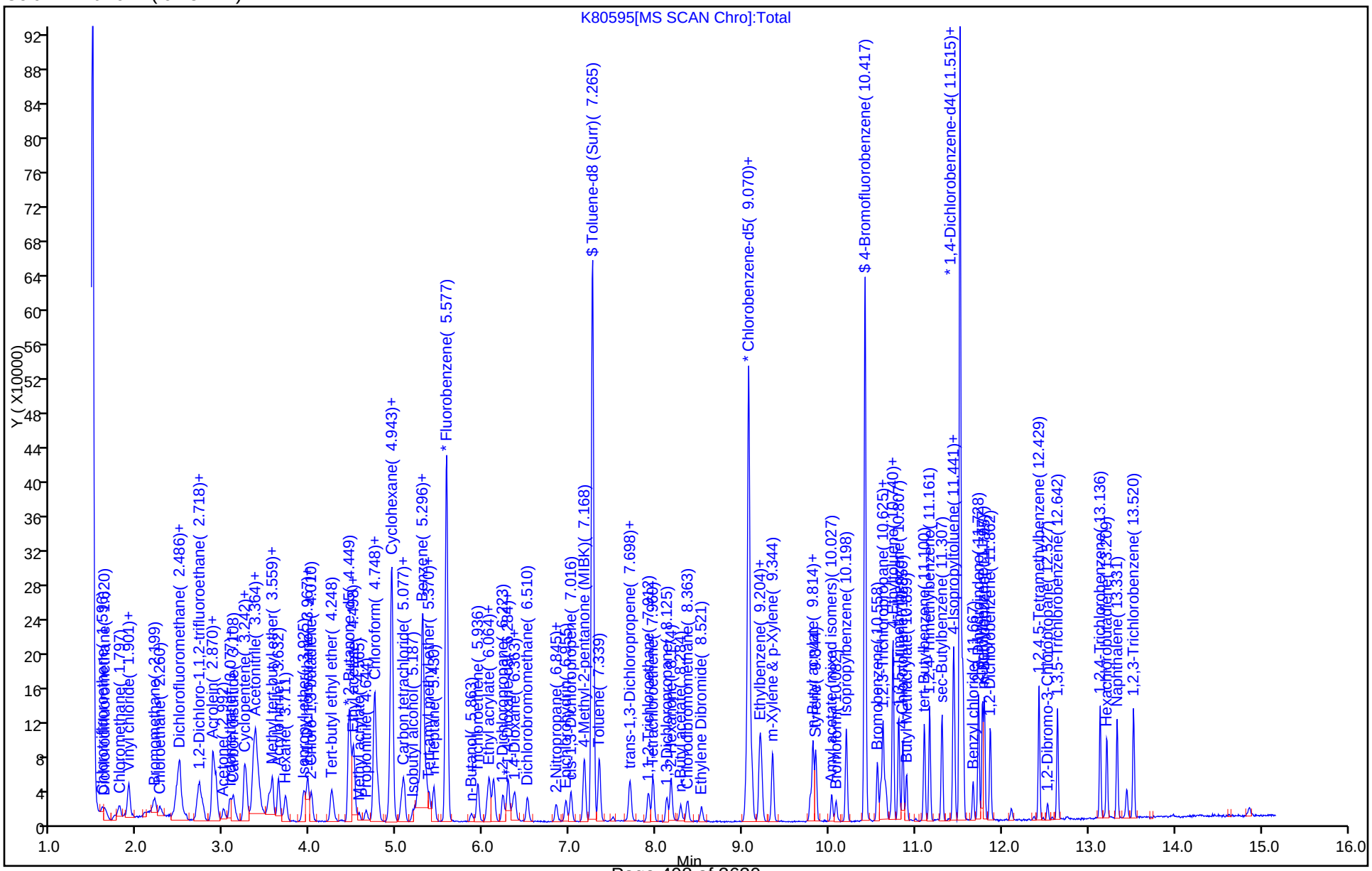
Lims ID: STD5 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

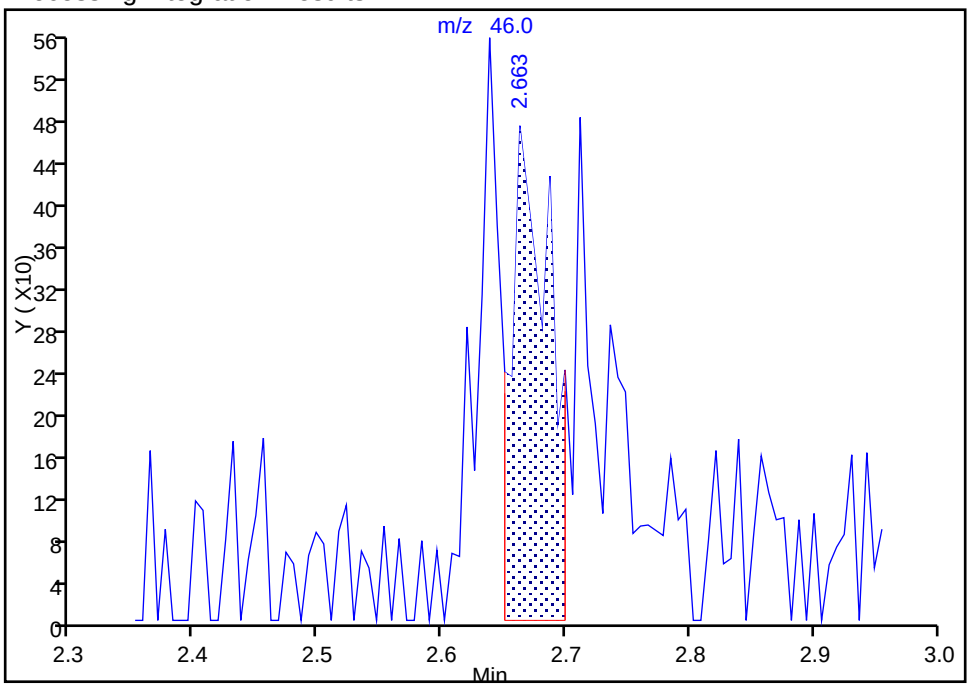
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D
Injection Date: 09-Mar-2018 22:54:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

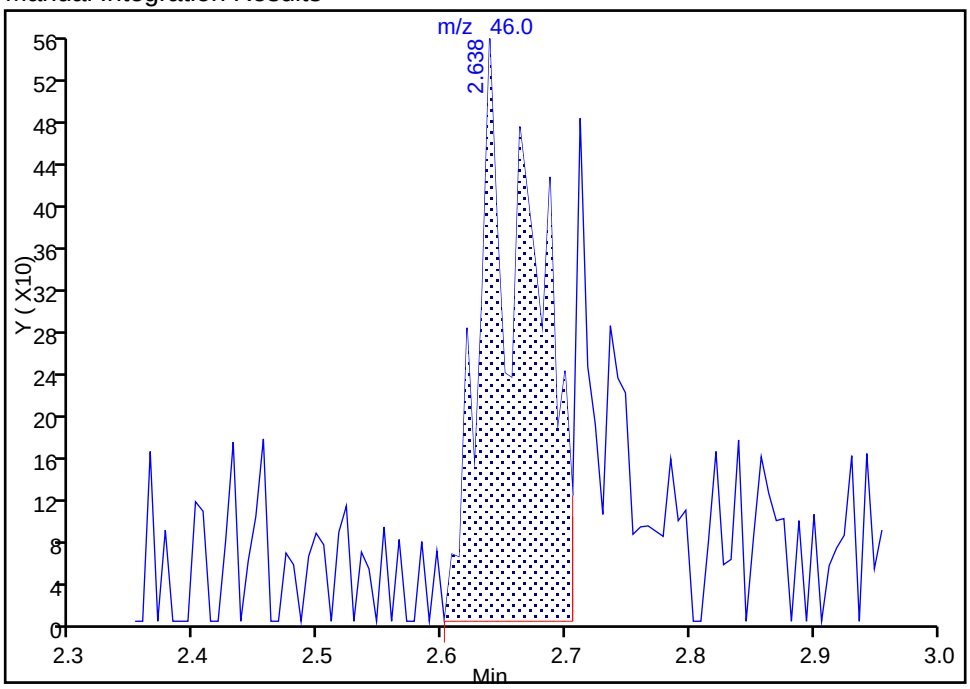
Processing Integration Results

RT: 2.66
Area: 1029
Amount: 276.2836
Amount Units: ug/l



Manual Integration Results

RT: 2.64
Area: 1729
Amount: 201.3838
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:39:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

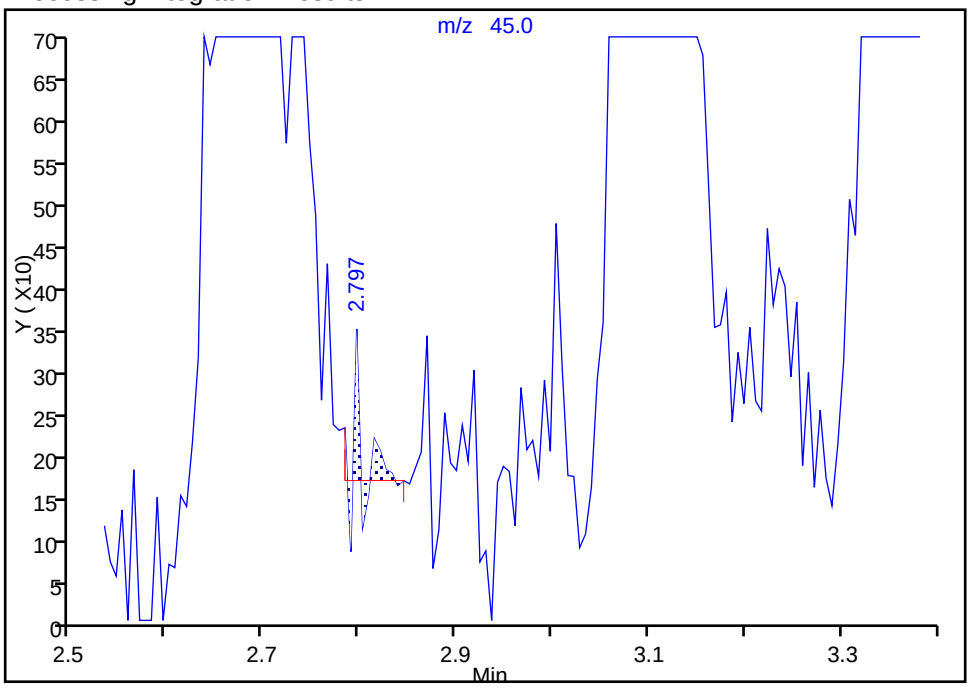
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D
Injection Date: 09-Mar-2018 22:54:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

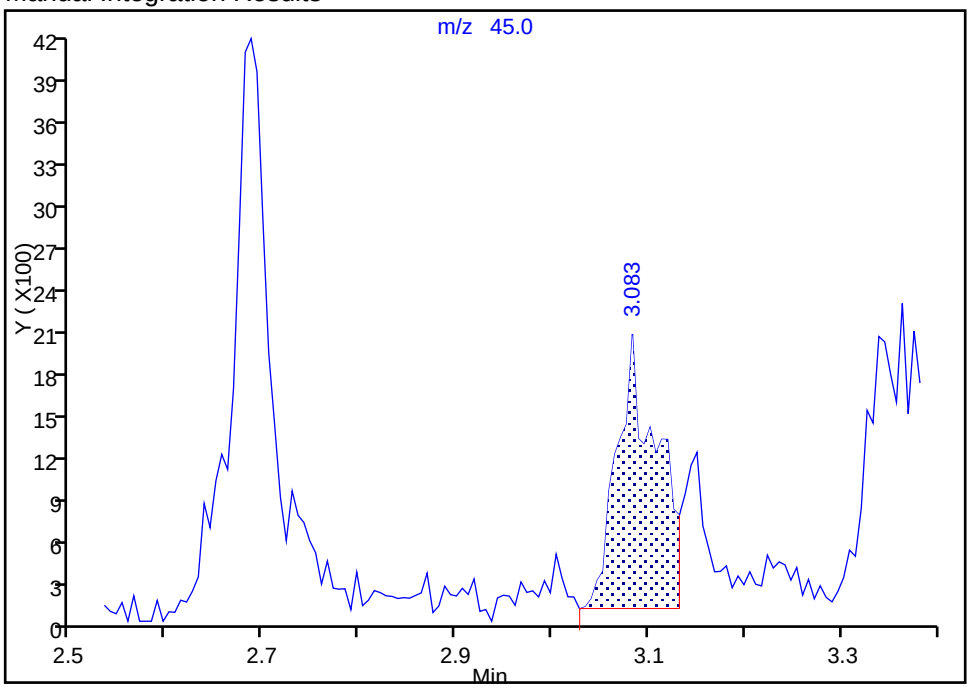
Processing Integration Results

RT: 2.80
Area: 68
Amount: 0.955428
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 5642
Amount: 36.879078
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:41:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

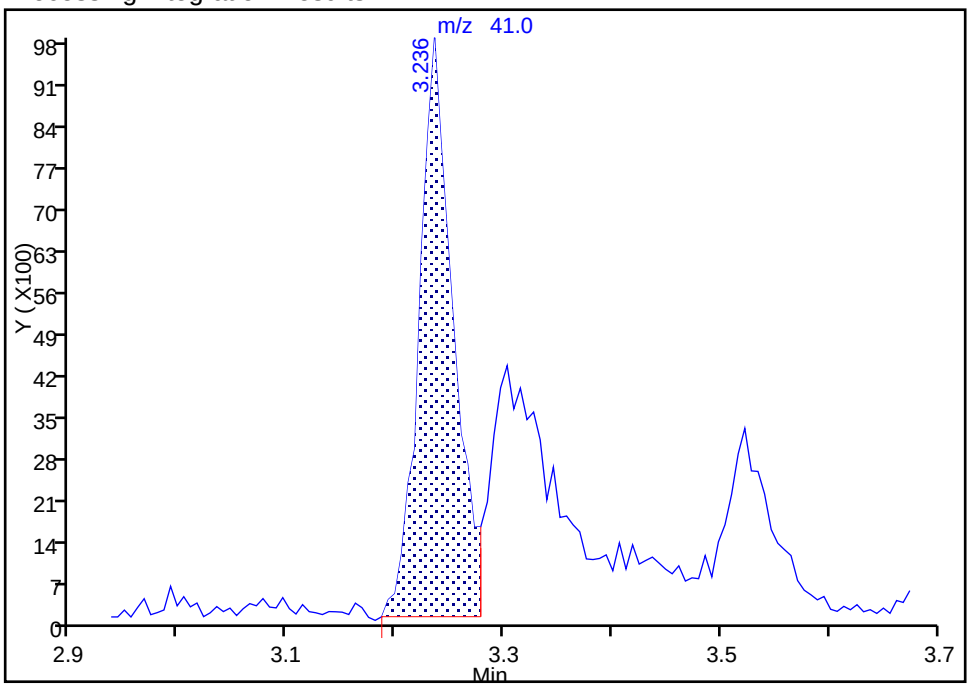
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D				
Injection Date:	09-Mar-2018 22:54:30	Instrument ID:	CVOAMS9		
Lims ID:	STD5				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

29 Acetonitrile, CAS: 75-05-8

Signal: 1

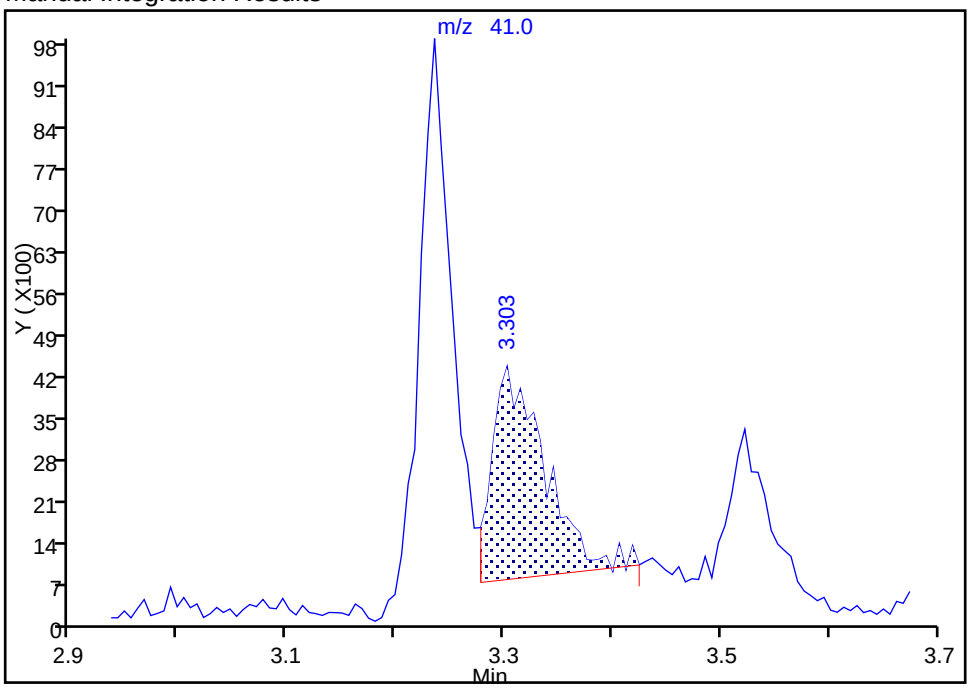
Processing Integration Results

RT: 3.24
Area: 21392
Amount: 56.307003
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 12039
Amount: 40.981564
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:28:28
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

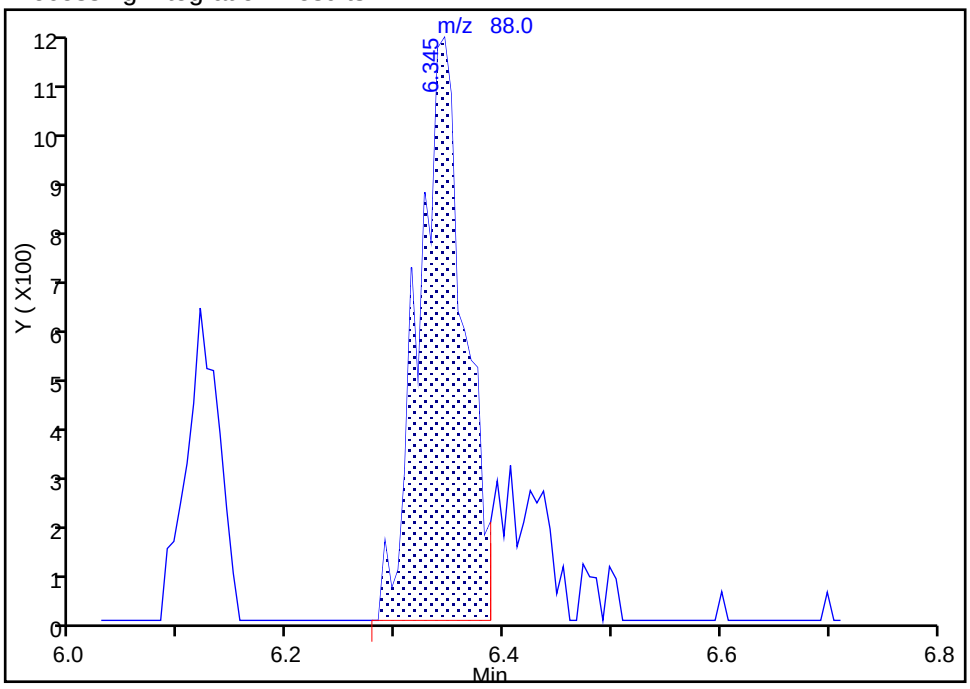
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80595.D
Injection Date: 09-Mar-2018 22:54:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

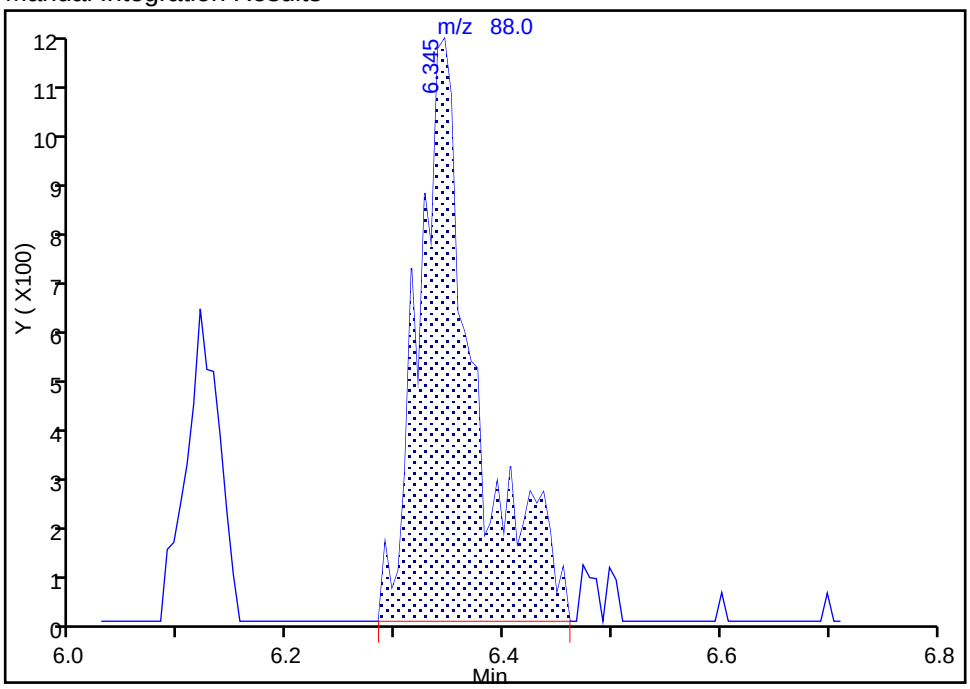
Processing Integration Results

RT: 6.34
Area: 3332
Amount: 85.946229
Amount Units: ug/l



Manual Integration Results

RT: 6.34
Area: 4115
Amount: 105.6862
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:29:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 09-Mar-2018 23:18:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0068588-004
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:11:03 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: delpolitov Date: 11-Mar-2018 17:11:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.596	1.596	0.000	87	16259	20.0	23.0	a
2 Dichlorodifluoromethane	85	1.638	1.638	0.000	98	108599	20.0	21.6	
3 Chloromethane	50	1.803	1.803	0.000	99	80854	20.0	22.4	
5 Butadiene	54	1.913	1.913	0.000	98	61205	20.0	22.5	
4 Vinyl chloride	62	1.913	1.913	0.000	98	86346	20.0	22.6	
6 Bromomethane	94	2.212	2.212	0.000	98	72490	20.0	22.2	
7 Chloroethane	64	2.279	2.279	0.000	100	43439	20.0	22.8	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	96	136096	20.0	22.2	
8 Trichlorofluoromethane	101	2.486	2.486	0.000	80	137546	20.0	22.5	
10 Pentane	72	2.498	2.498	0.000	93	19074	40.0	47.9	
12 Ethanol	46	2.687	2.687	0.000	73	7054	800.0	858.6	
11 Ethyl ether	59	2.699	2.699	0.000	93	39448	20.0	20.4	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	47653	20.0	21.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.760	2.760	0.000	86	67081	20.0	23.0	
15 Acrolein	56	2.882	2.882	0.000	96	92653	300.0	316.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.894	2.894	0.000	98	83373	20.0	21.6	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	98	65939	20.0	21.8	
18 Acetone	43	3.004	3.004	0.000	85	79181	100.0	100.0	
19 Iodomethane	142	3.083	3.083	0.000	99	147142	20.0	22.8	
22 Isopropyl alcohol	45	3.083	3.083	0.000	6	30920	200.0	211.2	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	220778	20.0	22.5	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	94	36684	20.0	22.6	
23 Methyl acetate	43	3.248	3.248	0.000	98	160296	100.0	102.0	
24 Cyclopentene	67	3.266	3.266	0.000	94	133075	20.0	21.5	
29 Acetonitrile	41	3.315	3.315	0.000	95	63974	200.0	227.6	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	232760	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	85	71405	20.0	20.8	
27 2-Methyl-2-propanol	59	3.431	3.431	0.000	98	63710	200.0	191.1	
28 Methyl tert-butyl ether	73	3.534	3.534	0.000	95	174490	20.0	20.8	
30 trans-1,2-Dichloroethene	96	3.571	3.571	0.000	92	68922	20.0	22.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	93	172248	200.0	208.6	
32 Hexane	43	3.717	3.717	0.000	90	42557	20.0	21.9	
33 Isopropyl ether	45	3.931	3.931	0.000	95	159630	20.0	21.3	
35 Vinyl acetate	86	3.973	3.973	0.000	99	17846	40.0	41.4	
34 1,1-Dichloroethane	63	3.973	3.973	0.000	79	107334	20.0	22.5	
36 2-Chloro-1,3-butadiene	88	4.022	4.022	0.000	91	53814	20.0	22.3	
37 Tert-butyl ethyl ether	59	4.254	4.254	0.000	89	173401	20.0	21.3	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	168321	250.0	250.0	
39 2,2-Dichloropropane	79	4.485	4.485	0.000	95	34363	20.0	21.3	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	97	76673	20.0	21.5	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	98	29733	100.0	97.8	
41 Ethyl acetate	70	4.510	4.510	0.000	95	10651	40.0	40.9	
44 Methyl acrylate	55	4.571	4.571	0.000	99	38519	20.0	19.3	
43 Propionitrile	54	4.650	4.650	0.000	97	69386	200.0	204.8	
46 Chlorobromomethane	128	4.735	4.735	0.000	69	39991	20.0	21.0	
45 Tetrahydrofuran	72	4.735	4.735	0.000	58	14733	40.0	40.1	
47 Methacrylonitrile	67	4.754	4.754	0.000	90	196077	200.0	199.5	
48 Chloroform	83	4.784	4.784	0.000	98	124140	20.0	21.9	
49 Cyclohexane	84	4.937	4.937	0.000	87	98900	20.0	21.5	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	96	161458	50.0	52.1	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	96	120237	20.0	22.3	
52 Carbon tetrachloride	117	5.065	5.065	0.000	95	107425	20.0	22.3	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	96	81275	20.0	22.1	
56 Isobutyl alcohol	74	5.193	5.193	0.000	97	5661	500.0	472.4	
54 Benzene	78	5.290	5.290	0.000	96	229582	20.0	21.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.302	5.302	0.000	0	155045	50.0	50.6	
57 Isopropyl acetate	43	5.327	5.327	0.000	95	142670	20.0	18.9	a
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	97	180808	20.0	20.6	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	98	81751	20.0	20.1	
60 n-Heptane	57	5.430	5.430	0.000	89	42824	20.0	20.8	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	449855	50.0	50.0	
62 n-Butanol	56	5.863	5.863	0.000	88	31991	500.0	478.4	
63 Trichloroethene	95	5.943	5.943	0.000	96	65670	20.0	21.0	
64 Ethyl acrylate	56	6.064	6.064	0.000	98	35150	20.0	22.6	
65 Methylcyclohexane	83	6.071	6.071	0.000	93	115827	20.0	21.1	
66 1,2-Dichloropropane	63	6.235	6.235	0.000	89	51628	20.0	20.1	
* 67 1,4-Dioxane-d8	96	6.284	6.284	0.000	0	23174	1000.0	1000.0	M
68 Methyl methacrylate	41	6.290	6.290	0.000	83	75766	40.0	38.9	
70 n-Propyl acetate	43	6.345	6.345	0.000	97	56241	20.0	19.6	
69 1,4-Dioxane	88	6.345	6.345	0.000	29	14385	400.0	347.7	
71 Dibromomethane	93	6.369	6.369	0.000	93	40080	20.0	20.5	
72 Dichlorobromomethane	83	6.516	6.516	0.000	98	81469	20.0	20.2	
74 2-Nitropropane	41	6.845	6.845	0.000	83	23506	40.0	35.0	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	67	22752	20.0	20.2	
75 Epichlorohydrin	57	6.955	6.955	0.000	99	95836	400.0	416.0	
76 cis-1,3-Dichloropropene	75	7.015	7.015	0.000	92	88324	20.0	20.6	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	95	219435	100.0	105.6	
$ 78 Toluene-d8 (Surr)	98	7.265	7.265	0.000	97	561834	50.0	52.2	
79 Toluene	91	7.345	7.345	0.000	92	263681	20.0	21.1	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	98	76085	20.0	20.3	
81 Ethyl methacrylate	69	7.704	7.704	0.000	86	55231	20.0	19.3	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	95	41825	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.966	7.966	0.000	97	78818	20.0	21.6	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	92	75969	20.0	20.6	
85 2-Hexanone	43	8.174	8.174	0.000	95	142225	100.0	105.7	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	57026	20.0	19.1	
87 Chlorodibromomethane	129	8.369	8.369	0.000	98	69349	20.0	20.0	
88 Ethylene Dibromide	107	8.527	8.527	0.000	98	56106	20.0	20.6	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	83	372429	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	97	178175	20.0	20.9	
92 Ethylbenzene	106	9.198	9.198	0.000	98	91806	20.0	21.5	
91 1,1,1,2-Tetrachloroethane	131	9.222	9.222	0.000	95	71244	20.0	19.7	
93 m-Xylene & p-Xylene	106	9.350	9.350	0.000	0	111809	20.0	21.4	
94 n-Butyl acrylate	73	9.777	9.777	0.000	97	33492	20.0	19.6	
95 o-Xylene	106	9.814	9.814	0.000	93	117566	20.0	21.7	
96 Styrene	104	9.844	9.844	0.000	96	189929	20.0	21.9	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	92	68328	20.0	19.5	
98 Bromoform	173	10.082	10.082	0.000	97	46470	20.0	19.3	
99 Isopropylbenzene	105	10.198	10.198	0.000	94	340602	20.0	20.9	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	95	191153	50.0	52.1	
101 Bromobenzene	156	10.564	10.564	0.000	91	86939	20.0	20.9	
102 1,1,2,2-Tetrachloroethane	83	10.600	10.600	0.000	97	70850	20.0	20.1	
103 N-Propylbenzene	91	10.625	10.625	0.000	99	370853	20.0	21.9	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	96	22471	20.0	19.6	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	87	16883	20.0	20.1	
106 2-Chlorotoluene	91	10.740	10.740	0.000	88	259421	20.0	21.5	
107 4-Ethyltoluene	105	10.740	10.740	0.000	91	331555	20.0	22.0	
108 1,3,5-Trimethylbenzene	105	10.807	10.807	0.000	93	293587	20.0	21.9	
109 4-Chlorotoluene	91	10.856	10.856	0.000	96	223708	20.0	21.9	
110 Butyl Methacrylate	87	10.899	10.899	0.000	87	72100	20.0	20.3	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	240377	20.0	20.2	
112 1,2,4-Trimethylbenzene	105	11.167	11.167	0.000	96	299744	20.0	21.7	
113 sec-Butylbenzene	105	11.307	11.307	0.000	99	371920	20.0	20.4	
114 4-Isopropyltoluene	119	11.435	11.435	0.000	98	332656	20.0	20.4	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	98	173187	20.0	21.6	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	92	222833	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	172276	20.0	21.4	
118 Benzyl chloride	91	11.667	11.667	0.000	99	122455	20.0	19.5	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	93	312354	20.0	21.5	
120 p-Diethylbenzene	119	11.777	11.777	0.000	95	193587	20.0	22.7	
121 n-Butylbenzene	92	11.795	11.795	0.000	97	165094	20.0	21.3	
122 1,2-Dichlorobenzene	146	11.862	11.862	0.000	98	173366	20.0	21.2	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	96	330422	20.0	21.7	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	92	15235	20.0	18.9	
125 1,3,5-Trichlorobenzene	180	12.642	12.642	0.000	98	153087	20.0	21.8	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	94	148361	20.0	21.6	
127 Hexachlorobutadiene	225	13.215	13.215	0.000	95	72800	20.0	20.8	
128 Naphthalene	128	13.331	13.331	0.000	99	343525	20.0	20.8	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	97	150867	20.0	21.5	
S 130 1,2-Dichloroethene, Total	100				0		40.0	44.3	
S 131 Xylenes, Total	100				0		40.0	43.1	
S 132 Total BTEX	1				0		100.0	107.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	2.00	Units: uL	
ACROLEIN W_00074	Amount Added:	3.00	Units: uL	
GASES Li_00250	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

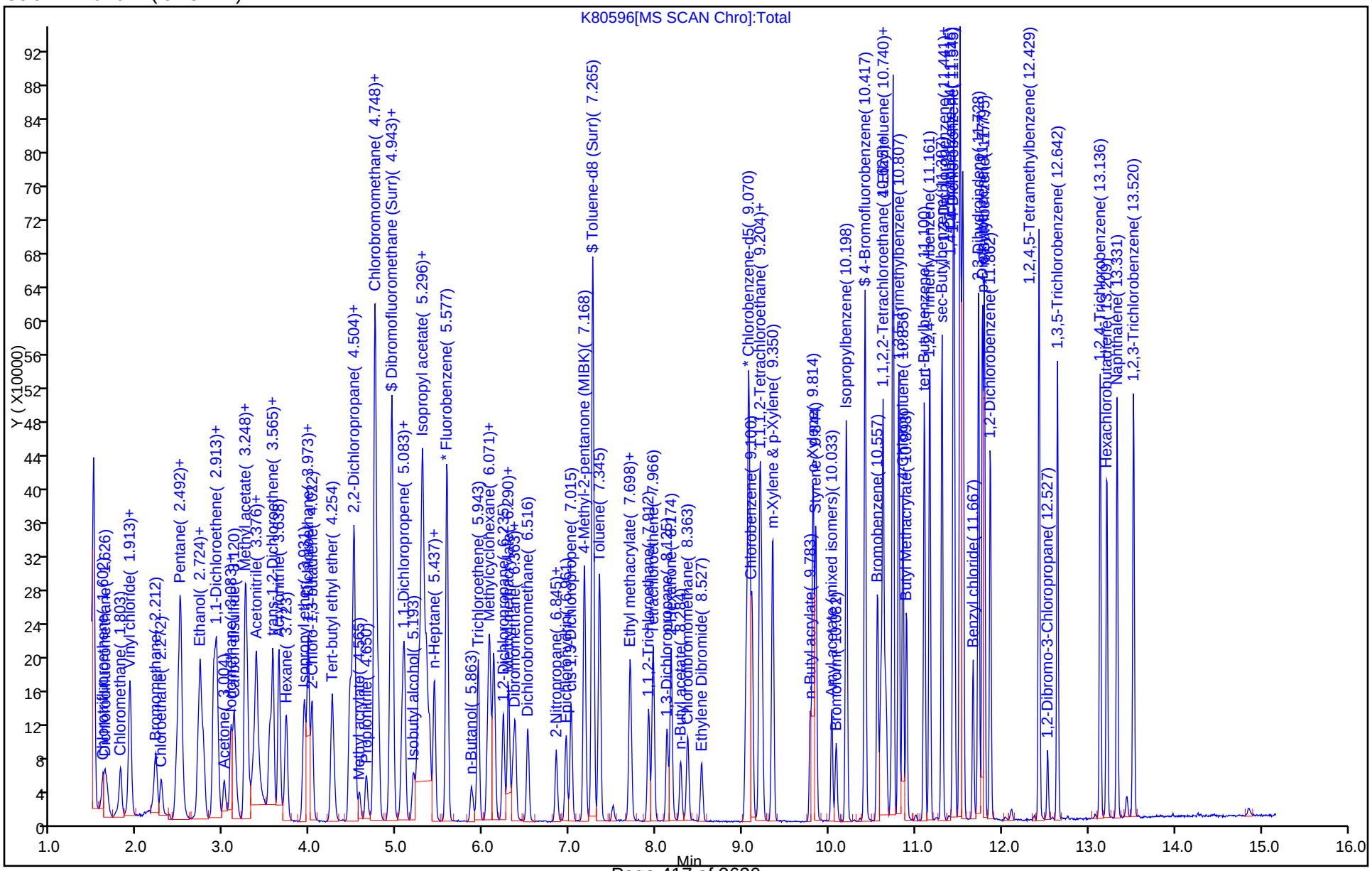
Report Date: 11-Mar-2018 17:11:05 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D

Injection Date:	09-Mar-2018 23:18:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

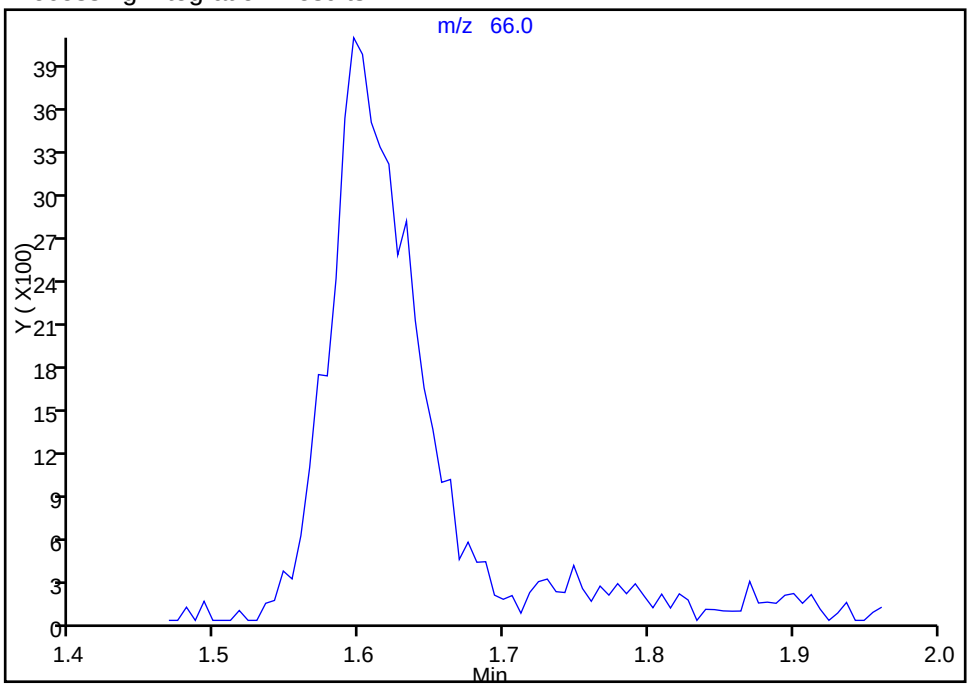
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D				
Injection Date:	09-Mar-2018 23:18:30	Instrument ID:	CVOAMS9		
Lims ID:	STD20				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

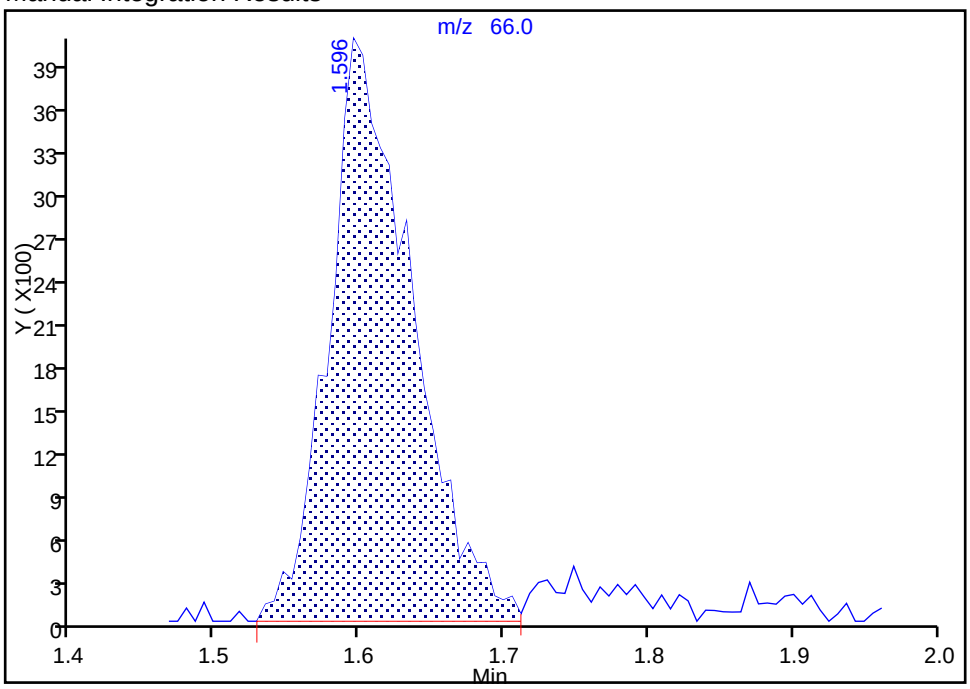
Not Detected
Expected RT: 1.60

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 16259
Amount: 22.996449
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:18:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

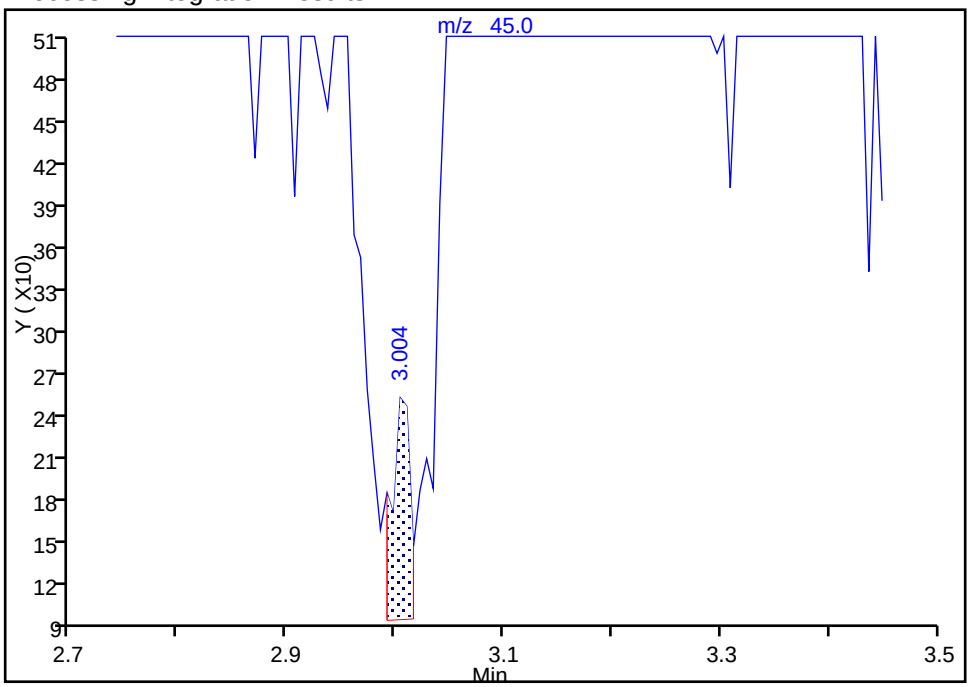
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D
Injection Date: 09-Mar-2018 23:18:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

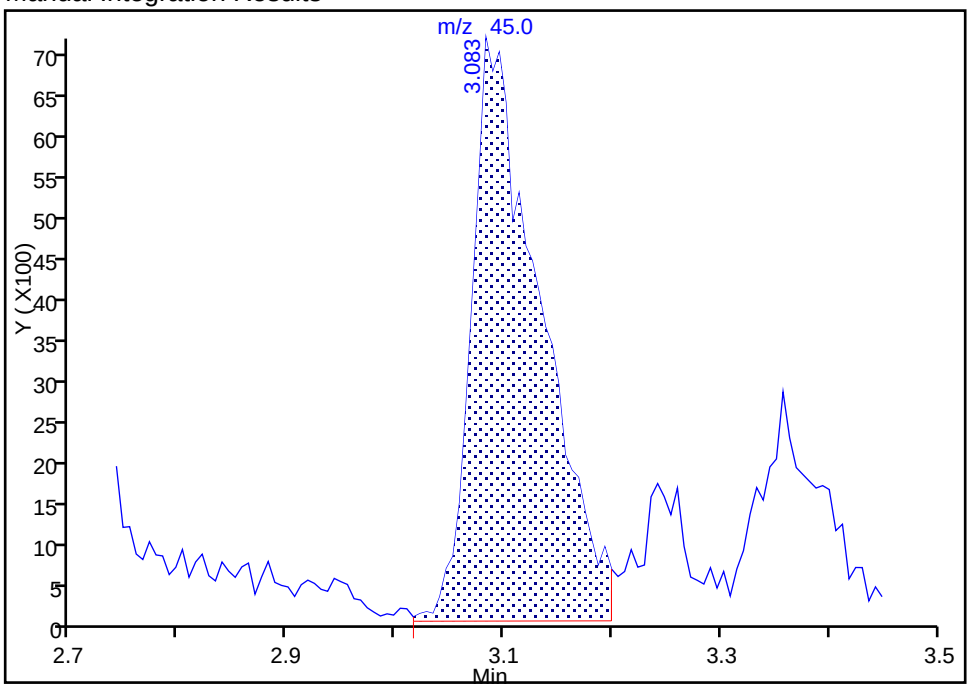
Processing Integration Results

RT: 3.00
Area: 191
Amount: 1.176903
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 30920
Amount: 211.2033
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:18:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

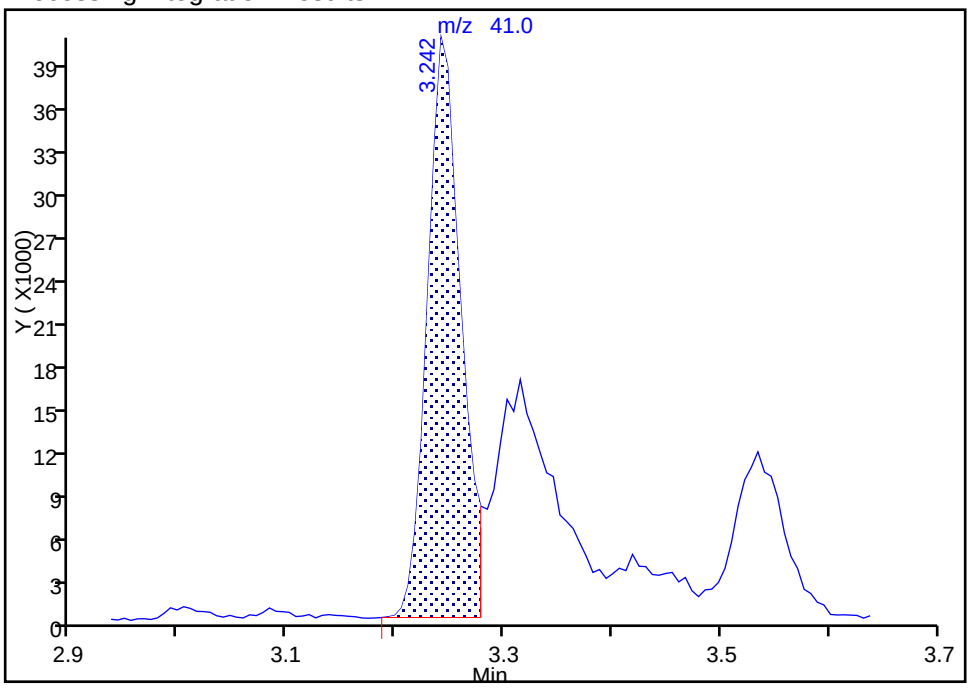
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D
Injection Date: 09-Mar-2018 23:18:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

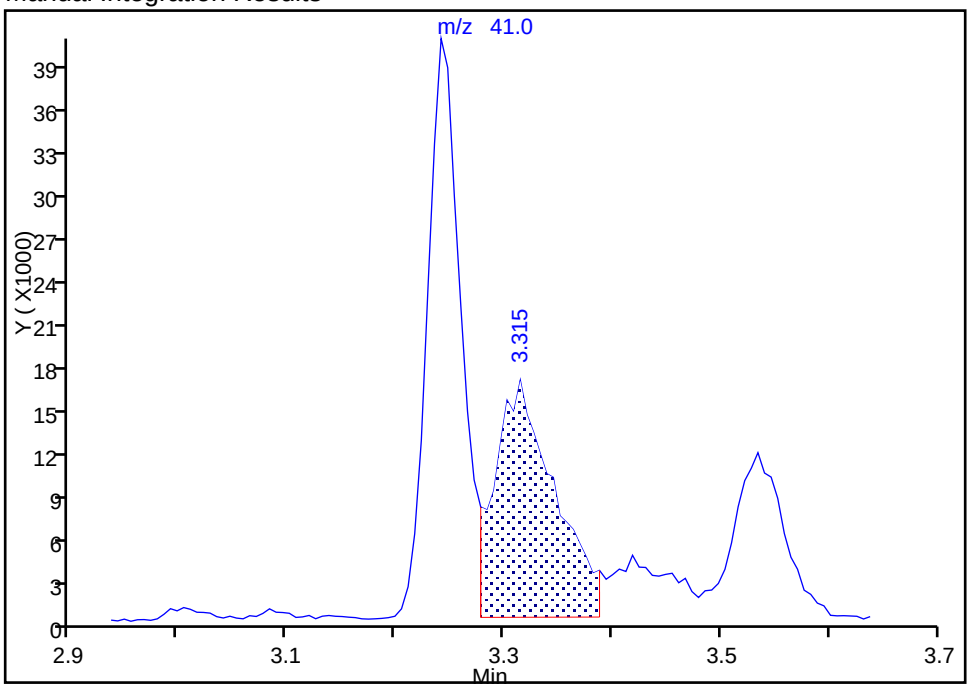
Processing Integration Results

RT: 3.24
Area: 87131
Amount: 232.9147
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 63974
Amount: 227.5704
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:19:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

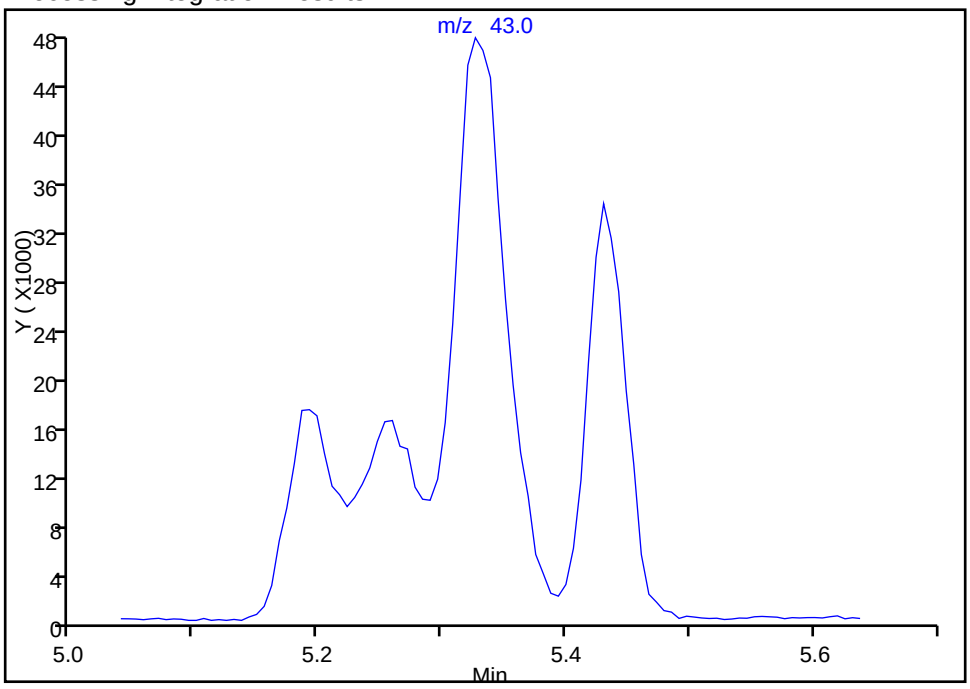
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D				
Injection Date:	09-Mar-2018 23:18:30	Instrument ID:	CVOAMS9		
Lims ID:	STD20				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

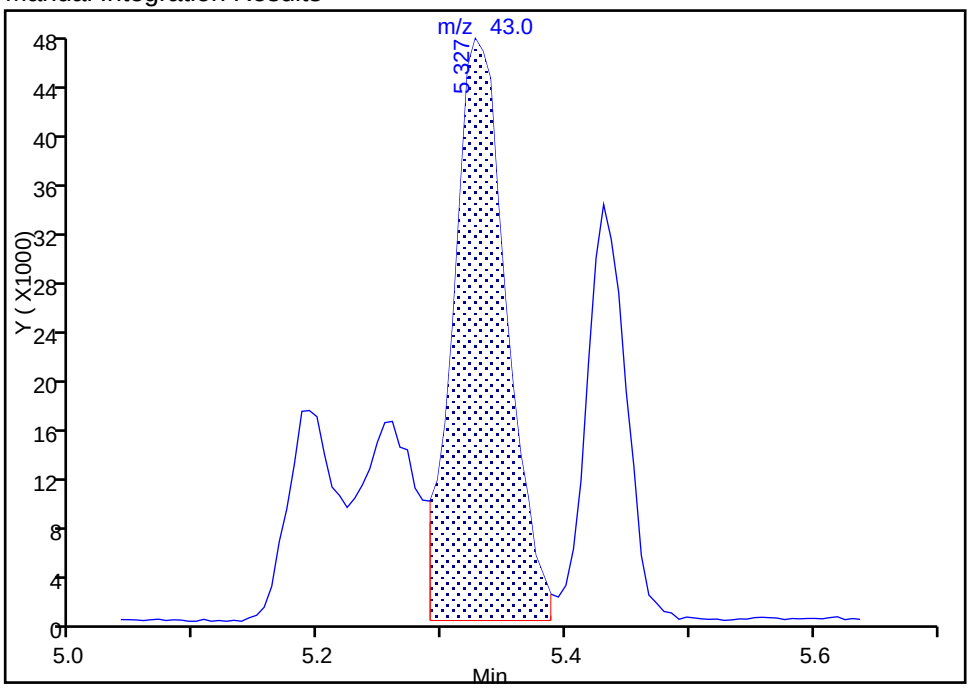
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 142670
Amount: 18.863425
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:19:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

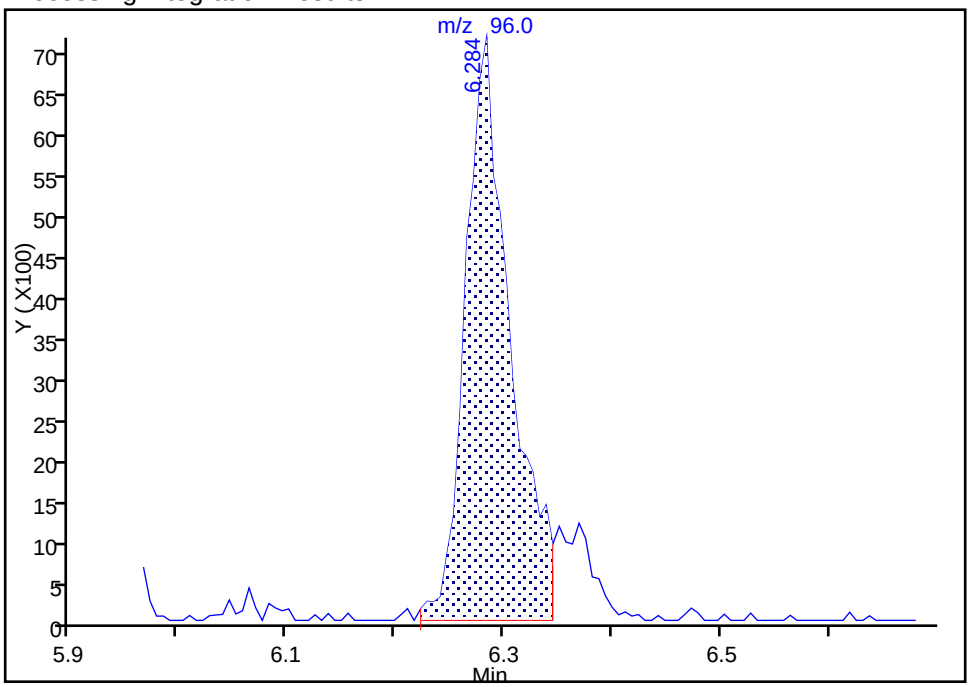
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80596.D				
Injection Date:	09-Mar-2018 23:18:30	Instrument ID:	CVOAMS9		
Lims ID:	STD20				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

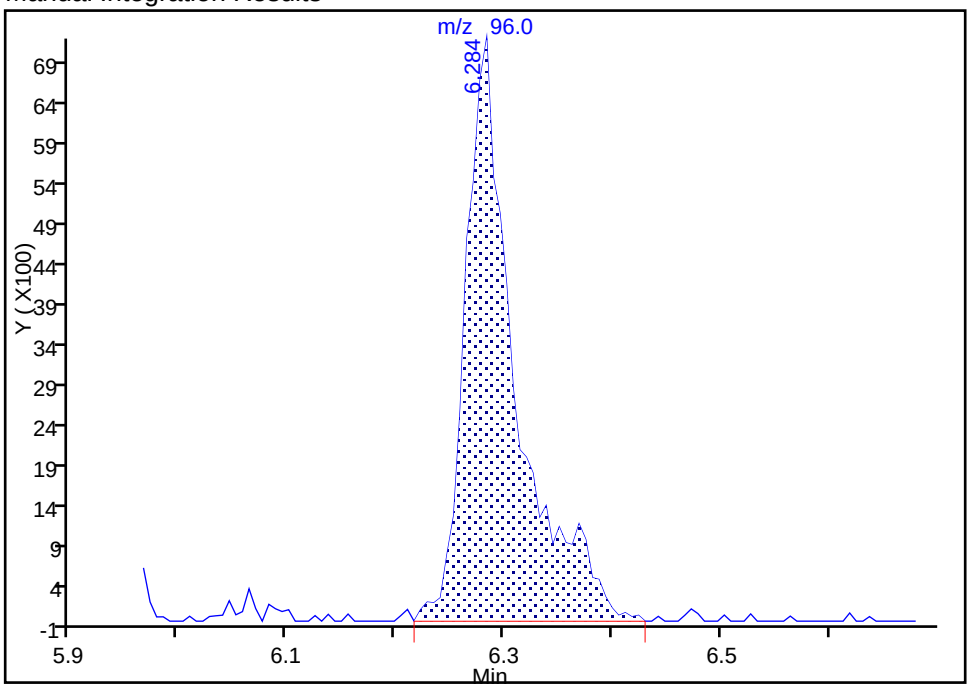
Processing Integration Results

RT: 6.28
Area: 20588
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.28
Area: 23174
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:19:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Mar-2018 23:43:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0068588-005
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:11:46 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: tupayachia Date: 10-Mar-2018 03:46:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.602	1.596	0.006	93	40737	50.0	53.8	
2 Dichlorodifluoromethane	85	1.627	1.638	-0.011	99	272833	50.0	50.1	
3 Chloromethane	50	1.803	1.803	0.000	99	195954	50.0	50.7	
5 Butadiene	54	1.913	1.913	0.000	97	155459	50.0	53.4	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	211156	50.0	51.6	
6 Bromomethane	94	2.212	2.212	0.000	98	180758	50.0	51.6	
7 Chloroethane	64	2.279	2.279	0.000	100	102879	50.0	50.5	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	98	343747	50.0	52.3	
8 Trichlorofluoromethane	101	2.486	2.486	0.000	97	354022	50.0	54.1	
10 Pentane	72	2.498	2.498	0.000	95	47450	100.0	109.6	
12 Ethanol	46	2.663	2.687	-0.024	71	16636	2000.0	1861.6	M
11 Ethyl ether	59	2.693	2.699	-0.006	93	102770	50.0	49.6	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	123232	50.0	51.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.760	-0.006	87	169385	50.0	54.3	
15 Acrolein	56	2.876	2.882	-0.006	95	124078	400.0	389.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.888	2.894	-0.006	97	216864	50.0	51.9	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	96	168217	50.0	51.3	
18 Acetone	43	3.004	3.004	0.000	85	204318	250.0	234.0	
19 Iodomethane	142	3.077	3.083	-0.006	100	365145	50.0	52.8	
22 Isopropyl alcohol	45	3.090	3.083	0.007	1	79220	500.0	497.5	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	564853	50.0	53.8	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	92	89164	50.0	51.2	
23 Methyl acetate	43	3.248	3.248	0.000	97	412989	250.0	245.6	
24 Cyclopentene	67	3.266	3.266	0.000	91	348613	50.0	52.0	
29 Acetonitrile	41	3.309	3.315	-0.006	93	153270	500.0	501.3	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	253166	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.376	-0.006	87	177995	50.0	48.5	
27 2-Methyl-2-propanol	59	3.437	3.431	0.006	97	165358	500.0	456.1	
28 Methyl tert-butyl ether	73	3.529	3.534	-0.005	95	449438	50.0	50.1	
30 trans-1,2-Dichloroethene	96	3.565	3.571	-0.006	92	174350	50.0	53.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	91	438194	500.0	495.8	
32 Hexane	43	3.718	3.717	0.001	90	111874	50.0	53.8	
33 Isopropyl ether	45	3.925	3.931	-0.006	95	409206	50.0	51.1	
35 Vinyl acetate	86	3.974	3.973	0.001	99	46234	100.0	98.7	
34 1,1-Dichloroethane	63	3.974	3.973	0.001	82	268689	50.0	52.7	
36 2-Chloro-1,3-butadiene	88	4.016	4.022	-0.006	92	142422	50.0	55.1	
37 Tert-butyl ethyl ether	59	4.254	4.254	0.000	89	445697	50.0	51.2	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	184698	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.485	-0.005	97	87520	50.0	50.8	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	98	198888	50.0	52.0	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	97	79956	250.0	239.7	
41 Ethyl acetate	70	4.510	4.510	0.000	92	28460	100.0	99.5	
44 Methyl acrylate	55	4.565	4.571	-0.006	99	103731	50.0	48.6	
43 Propionitrile	54	4.644	4.650	-0.006	97	187110	500.0	507.9	
46 Chlorobromomethane	128	4.736	4.735	0.001	74	103055	50.0	50.7	
45 Tetrahydrofuran	72	4.730	4.735	-0.005	59	38092	100.0	94.5	
47 Methacrylonitrile	67	4.748	4.754	-0.006	90	518955	500.0	493.3	
48 Chloroform	83	4.784	4.784	0.000	99	318793	50.0	52.4	
49 Cyclohexane	84	4.931	4.937	-0.006	90	255876	50.0	51.5	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	96	170236	50.0	51.4	
50 1,1,1-Trichloroethane	97	4.937	4.943	-0.006	97	307642	50.0	53.3	
52 Carbon tetrachloride	117	5.059	5.065	-0.006	98	281861	50.0	54.6	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	97	214948	50.0	54.6	
56 Isobutyl alcohol	74	5.205	5.193	0.012	94	15472	1250.0	1167.2	
54 Benzene	78	5.290	5.290	0.000	95	605358	50.0	53.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.303	5.302	0.001	0	167397	50.0	51.1	
57 Isopropyl acetate	43	5.333	5.327	0.006	95	393923	50.0	48.7	
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	95	488671	50.0	52.0	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	98	215433	50.0	49.4	
60 n-Heptane	57	5.431	5.430	0.001	88	115331	50.0	51.7	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	481522	50.0	50.0	
62 n-Butanol	56	5.864	5.863	0.001	88	91046	1250.0	1251.7	
63 Trichloroethene	95	5.937	5.943	-0.005	97	178136	50.0	53.2	
64 Ethyl acrylate	56	6.071	6.064	0.007	98	90607	50.0	54.3	
65 Methylcyclohexane	83	6.071	6.071	0.000	93	303675	50.0	51.0	
66 1,2-Dichloropropane	63	6.229	6.235	-0.006	87	136852	50.0	49.8	
* 67 1,4-Dioxane-d8	96	6.278	6.284	-0.006	0	22750	1000.0	1000.0	M
68 Methyl methacrylate	41	6.290	6.290	0.000	82	206153	100.0	98.9	
70 n-Propyl acetate	43	6.345	6.345	0.000	97	153758	50.0	50.1	
69 1,4-Dioxane	88	6.333	6.345	-0.012	30	35403	1000.0	871.7	
71 Dibromomethane	93	6.370	6.369	0.001	93	104980	50.0	50.3	
72 Dichlorobromomethane	83	6.516	6.516	0.000	99	220647	50.0	51.2	
74 2-Nitropropane	41	6.845	6.845	0.000	83	64073	100.0	89.2	
73 2-Chloroethyl vinyl ether	63	6.839	6.845	-0.006	70	60944	50.0	50.6	
75 Epichlorohydrin	57	6.955	6.955	0.001	99	254742	1000.0	1007.8	
76 cis-1,3-Dichloropropene	75	7.016	7.015	0.001	92	233789	50.0	51.4	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	94	583887	250.0	256.0	
$ 78 Toluene-d8 (Surr)	98	7.266	7.265	0.001	97	587757	50.0	51.4	
79 Toluene	91	7.345	7.345	0.000	92	692346	50.0	52.1	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	97	202488	50.0	50.9	
81 Ethyl methacrylate	69	7.705	7.704	0.001	83	157982	50.0	51.9	
82 1,1,2-Trichloroethane	83	7.906	7.912	-0.006	95	109778	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.967	7.966	0.001	96	207858	50.0	53.6	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	89	202902	50.0	51.6	
85 2-Hexanone	43	8.168	8.174	-0.006	95	379360	250.0	257.0	
86 n-Butyl acetate	43	8.278	8.284	-0.006	99	157903	50.0	49.7	
87 Chlorodibromomethane	129	8.363	8.369	-0.006	97	192425	50.0	52.1	
88 Ethylene Dibromide	107	8.528	8.527	0.001	98	146873	50.0	50.8	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	82	395837	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	97	463234	50.0	51.2	
92 Ethylbenzene	106	9.198	9.198	0.000	98	239854	50.0	52.8	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.222	0.001	95	205352	50.0	53.4	
93 m-Xylene & p-Xylene	106	9.351	9.350	0.001	0	293540	50.0	52.8	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	94103	50.0	51.9	
95 o-Xylene	106	9.814	9.814	0.000	92	305753	50.0	53.1	
96 Styrene	104	9.844	9.844	0.000	95	496052	50.0	53.9	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	92	187312	50.0	50.2	
98 Bromoform	173	10.082	10.082	0.000	97	128718	50.0	50.4	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	902218	50.0	51.5	
$ 100 4-Bromofluorobenzene	174	10.418	10.417	0.001	97	203133	50.0	52.1	
101 Bromobenzene	156	10.558	10.564	-0.006	90	225443	50.0	51.0	
102 1,1,2,2-Tetrachloroethane	83	10.594	10.600	-0.006	98	189802	50.0	50.7	
103 N-Propylbenzene	91	10.625	10.625	0.001	99	961788	50.0	53.3	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	97	57985	50.0	47.6	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	93	42929	50.0	47.9	
106 2-Chlorotoluene	91	10.741	10.740	0.001	90	662183	50.0	51.6	
107 4-Ethyltoluene	105	10.741	10.740	0.001	90	857417	50.0	53.5	
108 1,3,5-Trimethylbenzene	105	10.808	10.807	0.001	93	757640	50.0	53.1	
109 4-Chlorotoluene	91	10.856	10.856	0.000	97	567290	50.0	52.2	
110 Butyl Methacrylate	87	10.899	10.899	0.000	88	205646	50.0	54.5	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	636901	50.0	49.6	
112 1,2,4-Trimethylbenzene	105	11.161	11.167	-0.006	97	779144	50.0	53.1	
113 sec-Butylbenzene	105	11.308	11.307	0.001	100	997797	50.0	50.7	
114 4-Isopropyltoluene	119	11.436	11.435	0.001	98	881569	50.0	50.1	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	98	441193	50.0	51.7	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	92	237328	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	436149	50.0	50.9	
118 Benzyl chloride	91	11.667	11.667	0.000	99	328748	50.0	49.1	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	94	804695	50.0	52.1	
120 p-Diethylbenzene	119	11.777	11.777	0.000	94	493550	50.0	54.4	
121 n-Butylbenzene	92	11.795	11.795	0.000	97	415172	50.0	49.8	
122 1,2-Dichlorobenzene	146	11.862	11.862	0.000	98	444763	50.0	51.1	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	96	881620	50.0	54.3	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	92	40408	50.0	47.1	
125 1,3,5-Trichlorobenzene	180	12.643	12.642	0.001	98	398644	50.0	53.3	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	95	381619	50.0	52.2	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	95	187618	50.0	49.9	
128 Naphthalene	128	13.332	13.331	0.001	99	894766	50.0	50.8	
129 1,2,3-Trichlorobenzene	180	13.521	13.520	0.001	97	389162	50.0	52.1	
S 130 1,2-Dichloroethene, Total	100				0		100.0	105.9	
S 131 Xylenes, Total	100				0		100.0	105.9	
S 132 Total BTEX	1				0		250.0	264.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	5.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GASES Li_00250	Amount Added:	5.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

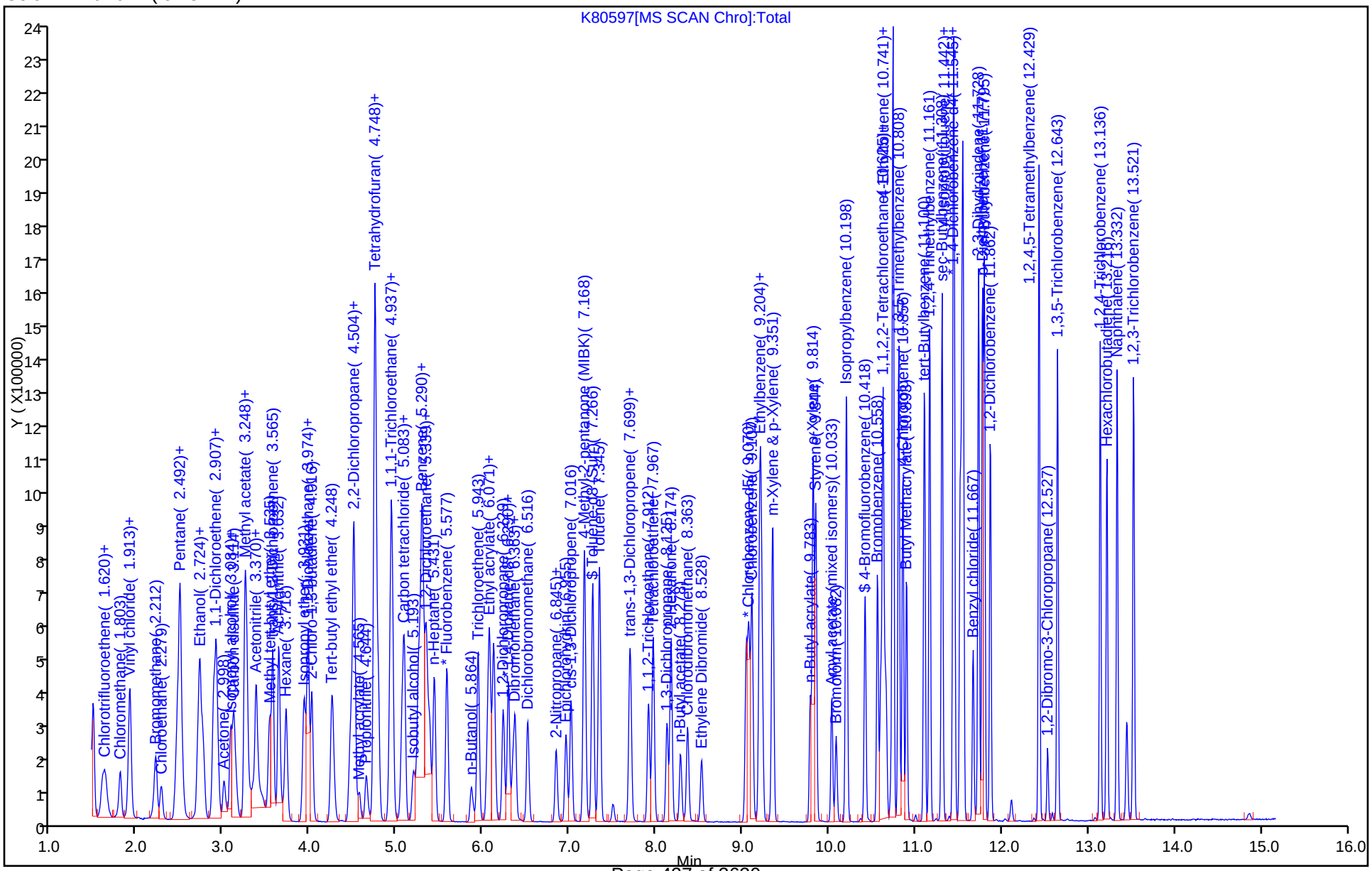
Report Date: 11-Mar-2018 17:11:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D

Injection Date:	09-Mar-2018 23:43:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

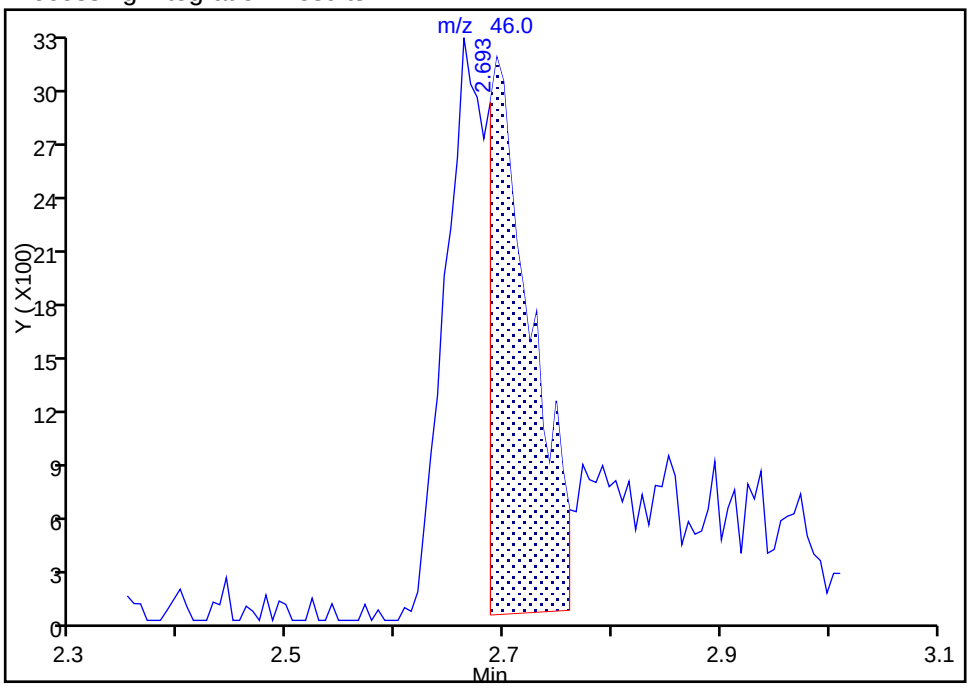
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D
Injection Date: 09-Mar-2018 23:43:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

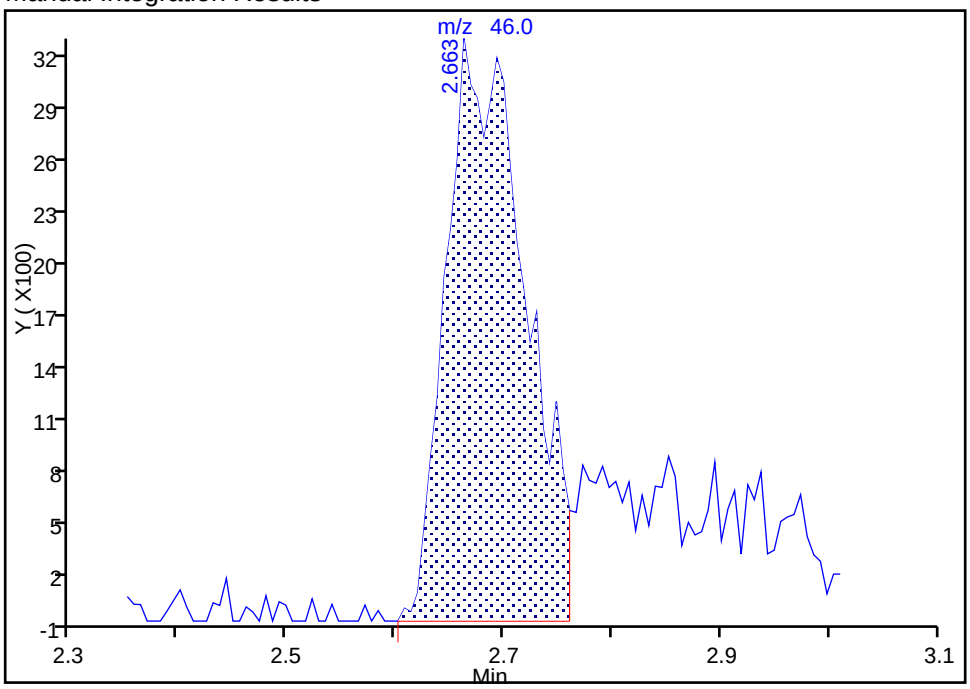
Processing Integration Results

RT: 2.69
Area: 8454
Amount: 1976.7292
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 16636
Amount: 1861.6393
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:30:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

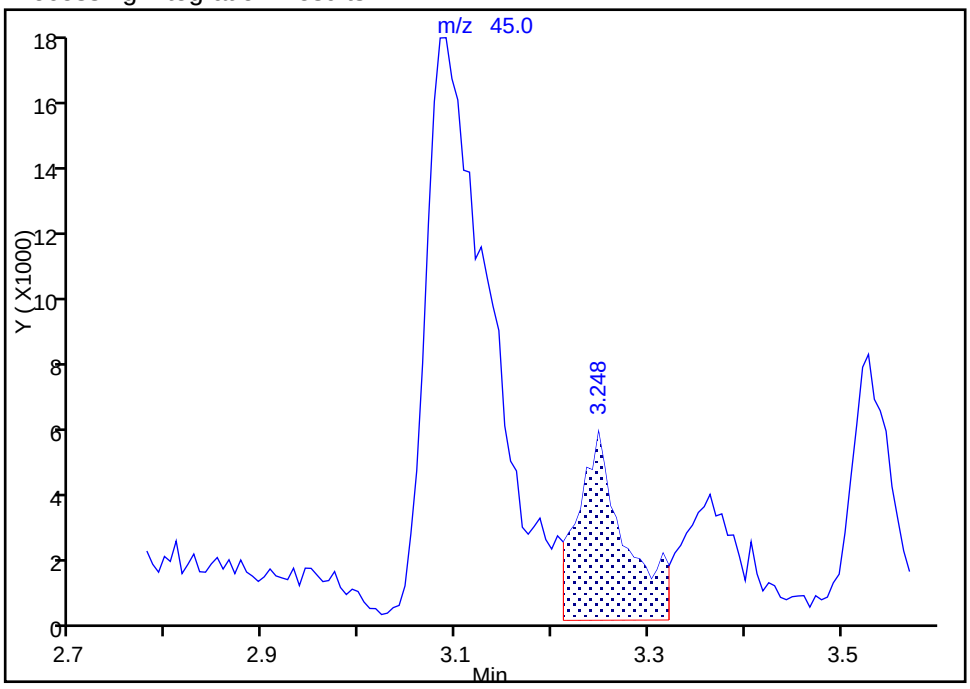
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D
Injection Date: 09-Mar-2018 23:43:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

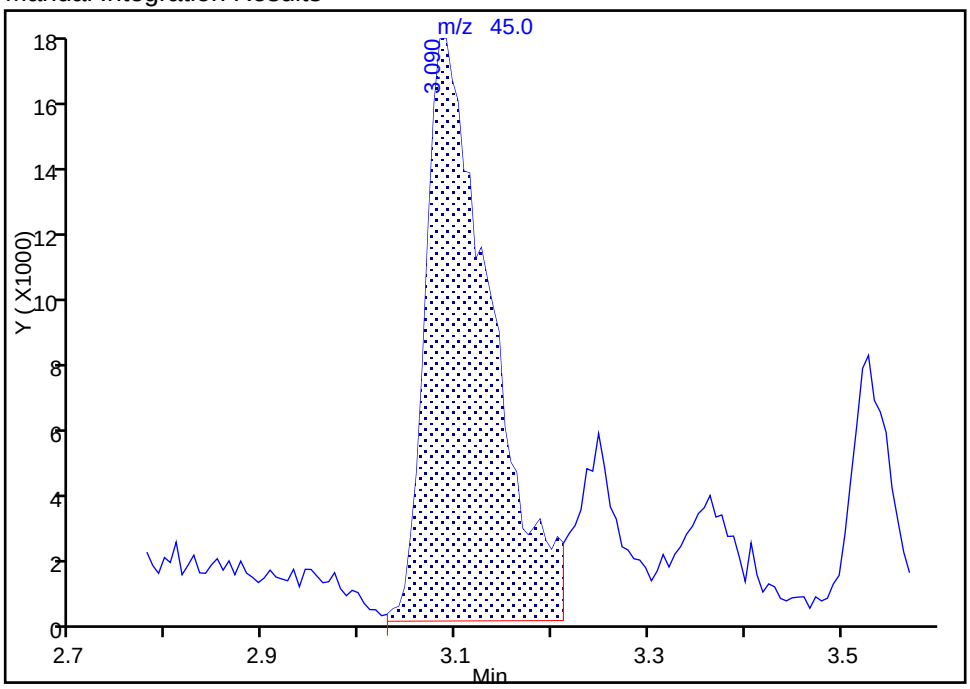
Processing Integration Results

RT: 3.25
Area: 18800
Amount: 193.9146
Amount Units: ug/l



Manual Integration Results

RT: 3.09
Area: 79220
Amount: 497.5067
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:30:22
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

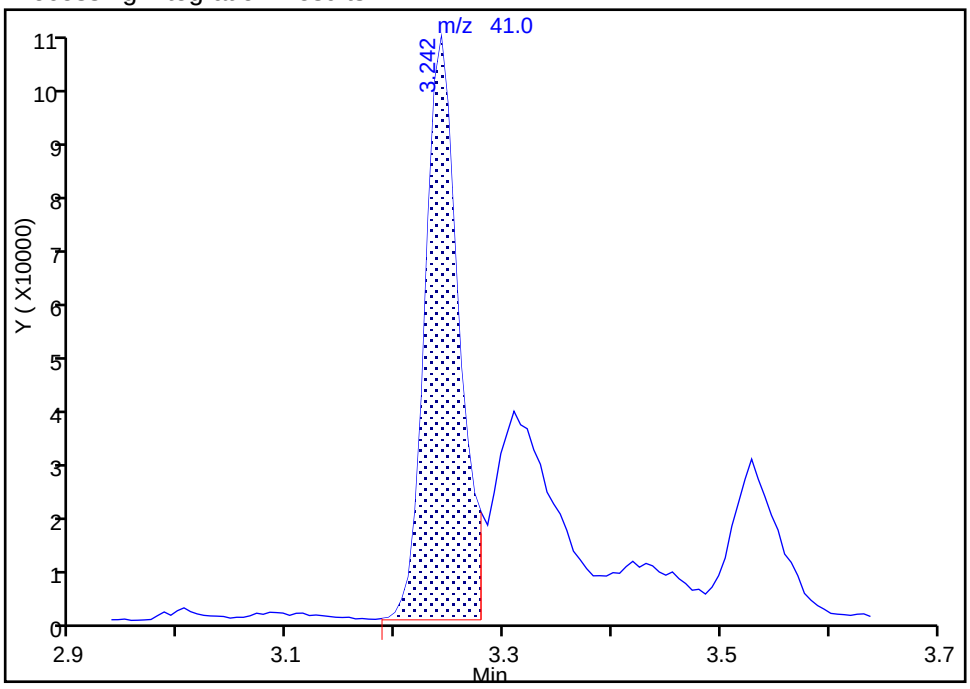
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D
Injection Date: 09-Mar-2018 23:43:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

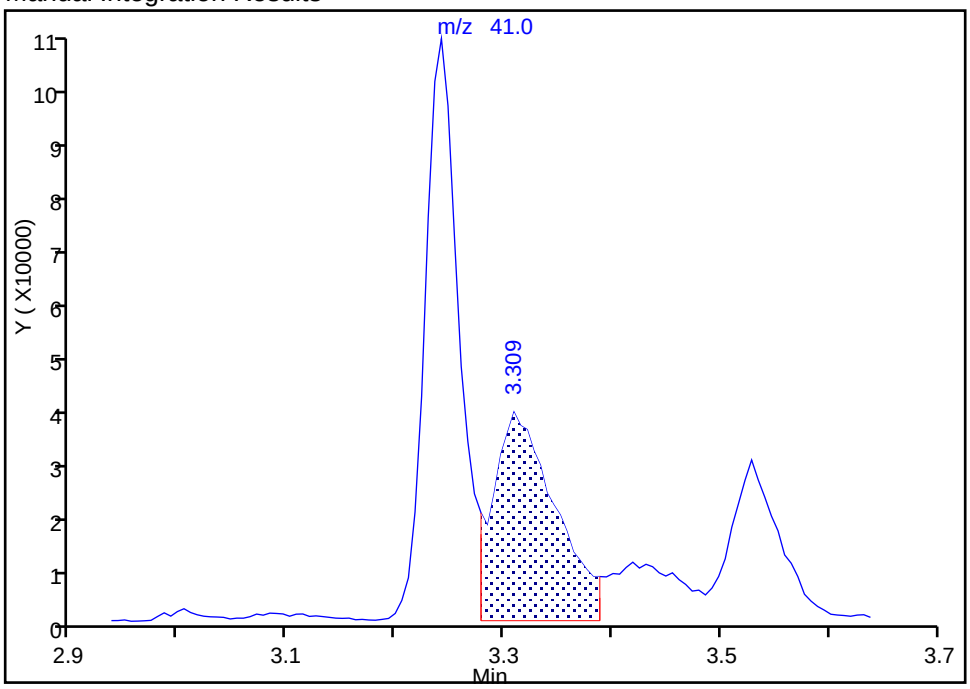
Processing Integration Results

RT: 3.24
Area: 231788
Amount: 528.3208
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 153270
Amount: 501.2708
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:30:27
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

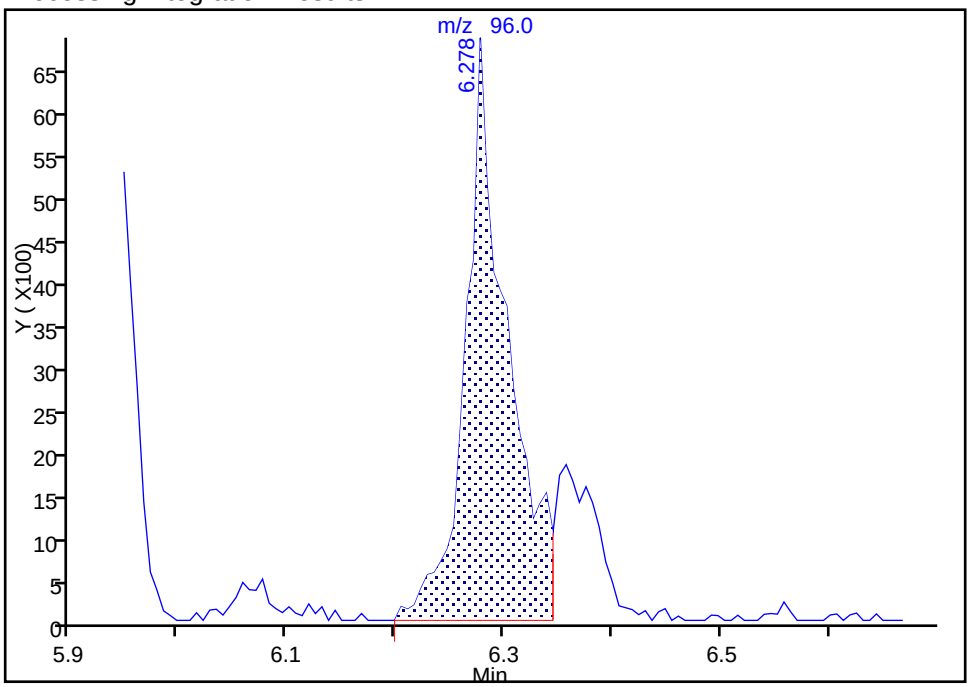
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80597.D
Injection Date: 09-Mar-2018 23:43:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

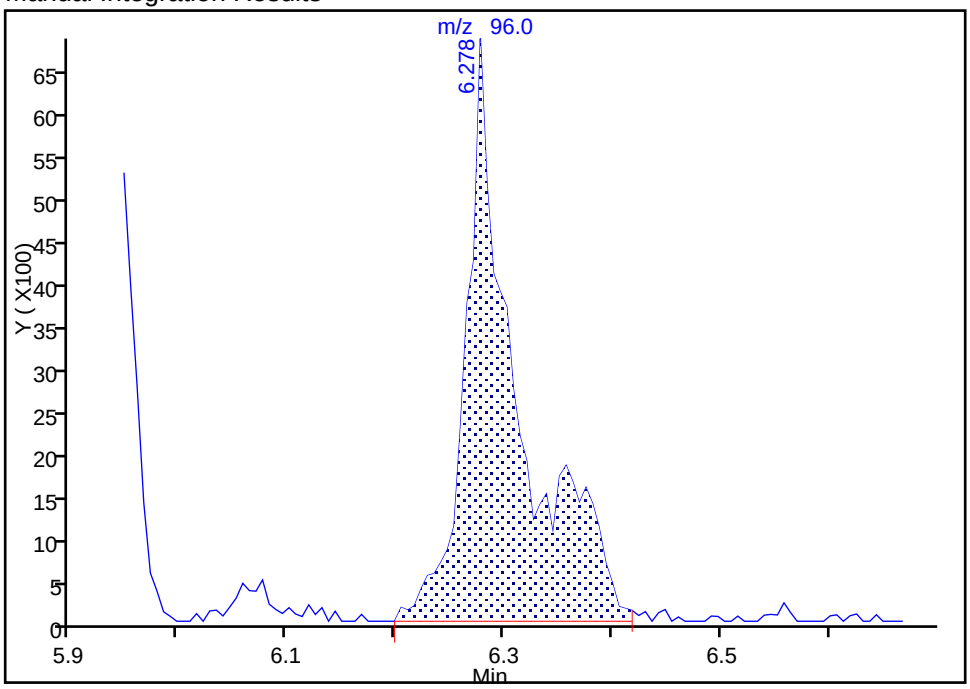
Processing Integration Results

RT: 6.28
Area: 18317
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.28
Area: 22750
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:31:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Mar-2018 00:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0068588-006
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:11:58 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: tupayachia Date: 10-Mar-2018 03:44:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.602	1.596	0.006	87	155201	200.0	188.1	
2 Dichlorodifluoromethane	85	1.633	1.638	-0.005	99	1161580	200.0	194.4	
3 Chloromethane	50	1.809	1.803	0.006	99	852187	200.0	202.1	
4 Vinyl chloride	62	1.913	1.913	0.000	98	906554	200.0	203.3	
5 Butadiene	54	1.925	1.913	0.012	97	671301	200.0	211.6	
6 Bromomethane	94	2.218	2.212	0.006	98	739968	200.0	193.9	
7 Chloroethane	64	2.279	2.279	0.000	100	451598	200.0	203.2	
9 Dichlorofluoromethane	67	2.480	2.474	0.006	98	1466947	200.0	204.8	
8 Trichlorofluoromethane	101	2.492	2.486	0.006	98	1464737	200.0	205.3	
10 Pentane	72	2.498	2.498	0.000	96	197297	400.0	394.3	
12 Ethanol	46	2.700	2.687	0.013	66	76094	8000.0	7369.5	M
11 Ethyl ether	59	2.700	2.699	0.001	94	433259	200.0	192.0	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	96	512675	200.0	196.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.760	-0.006	86	679385	200.0	199.9	
15 Acrolein	56	2.882	2.882	0.000	96	190928	500.0	518.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.895	2.894	0.001	97	863417	200.0	188.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	684486	200.0	190.6	
18 Acetone	43	3.004	3.004	0.000	85	1021466	1000.0	1005.5	
22 Isopropyl alcohol	45	3.090	3.083	0.007	1	382624	2000.0	2079.6	a
19 Iodomethane	142	3.084	3.083	0.001	100	1529031	200.0	202.8	
20 Carbon disulfide	76	3.120	3.120	0.000	99	2394372	200.0	209.3	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	93	384094	200.0	202.4	
23 Methyl acetate	43	3.248	3.248	0.000	98	1828266	1000.0	997.2	
24 Cyclopentene	67	3.266	3.266	0.000	92	1441341	200.0	196.0	
29 Acetonitrile	41	3.315	3.315	0.000	90	733605	2000.0	2076.4	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	292526	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	85	743200	200.0	185.9	
27 2-Methyl-2-propanol	59	3.437	3.431	0.006	97	796833	2000.0	1902.0	
28 Methyl tert-butyl ether	73	3.535	3.534	0.001	95	1931423	200.0	197.5	
30 trans-1,2-Dichloroethene	96	3.571	3.571	0.000	92	726236	200.0	206.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	91	1904598	2000.0	1976.7	
32 Hexane	43	3.724	3.717	0.007	91	463434	200.0	204.5	
33 Isopropyl ether	45	3.931	3.931	0.000	94	1723182	200.0	197.3	
34 1,1-Dichloroethane	63	3.974	3.973	0.001	99	1118165	200.0	201.1	
35 Vinyl acetate	86	3.980	3.973	0.007	100	225747	400.0	416.9	
36 2-Chloro-1,3-butadiene	88	4.022	4.022	0.000	92	589072	200.0	209.0	
37 Tert-butyl ethyl ether	59	4.254	4.254	0.000	89	1906789	200.0	200.9	
* 38 2-Butanone-d5	46	4.461	4.455	0.006	0	209197	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.485	0.001	95	368909	200.0	196.3	
40 cis-1,2-Dichloroethene	96	4.510	4.504	0.006	98	827114	200.0	198.5	
41 Ethyl acetate	70	4.516	4.510	0.006	96	127712	400.0	394.4	
42 2-Butanone (MEK)	72	4.516	4.510	0.006	97	362481	1000.0	959.5	
44 Methyl acrylate	55	4.571	4.571	0.000	99	485384	200.0	208.4	
43 Propionitrile	54	4.650	4.650	0.000	97	833626	2000.0	1958.3	
45 Tetrahydrofuran	72	4.736	4.735	0.001	88	171775	400.0	376.1	
46 Chlorobromomethane	128	4.742	4.735	0.007	74	443809	200.0	200.1	
47 Methacrylonitrile	67	4.754	4.754	0.000	92	2298075	2000.0	2003.7	
48 Chloroform	83	4.791	4.784	0.007	99	1325310	200.0	200.0	
49 Cyclohexane	84	4.931	4.937	-0.006	89	1034559	200.0	189.9	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	97	1283350	200.0	203.9	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	97	181995	50.0	50.4	
52 Carbon tetrachloride	117	5.065	5.065	0.000	97	1174933	200.0	208.9	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	96	904226	200.0	210.5	
56 Isobutyl alcohol	74	5.199	5.193	0.006	97	82018	5000.0	5307.8	
54 Benzene	78	5.297	5.290	0.007	96	2558276	200.0	211.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.309	5.302	0.007	0	185476	50.0	51.9	M
57 Isopropyl acetate	43	5.333	5.327	0.006	95	1750767	200.0	198.4	
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	97	2108677	200.0	205.8	
59 1,2-Dichloroethane	62	5.388	5.382	0.006	98	931767	200.0	196.0	
60 n-Heptane	57	5.437	5.430	0.007	86	475823	200.0	194.1	
* 61 Fluorobenzene	96	5.583	5.577	0.006	99	524949	50.0	50.0	
62 n-Butanol	56	5.864	5.863	0.001	88	460164	5000.0	5475.2	
63 Trichloroethene	95	5.943	5.943	0.001	96	756101	200.0	207.3	
64 Ethyl acrylate	56	6.071	6.064	0.007	98	378097	200.0	208.0	
65 Methylcyclohexane	83	6.071	6.071	0.000	94	1269702	200.0	194.3	
66 1,2-Dichloropropane	63	6.235	6.235	0.000	88	591075	200.0	197.3	
* 67 1,4-Dioxane-d8	96	6.284	6.284	0.000	0	19191	1000.0	1000.0	M
68 Methyl methacrylate	41	6.290	6.290	0.000	83	960713	400.0	422.7	
69 1,4-Dioxane	88	6.339	6.345	-0.006	34	142559	4000.0	4161.2	
70 n-Propyl acetate	43	6.345	6.345	0.000	97	697711	200.0	208.7	
71 Dibromomethane	93	6.370	6.369	0.001	93	462061	200.0	202.9	
72 Dichlorobromomethane	83	6.516	6.516	0.000	99	981074	200.0	208.8	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	88	270671	200.0	206.3	
74 2-Nitropropane	41	6.845	6.845	0.000	91	336123	400.0	429.0	
75 Epichlorohydrin	57	6.961	6.955	0.007	99	1156777	4000.0	4040.3	
76 cis-1,3-Dichloropropene	75	7.022	7.015	0.007	92	1046976	200.0	214.2	
77 4-Methyl-2-pentanone (MIBK	43	7.174	7.168	0.006	94	2700608	1000.0	1045.4	
$ 78 Toluene-d8 (Surr)	98	7.272	7.265	0.007	97	654361	50.0	53.3	
79 Toluene	91	7.345	7.345	0.000	92	2986011	200.0	209.2	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	97	917671	200.0	214.7	
81 Ethyl methacrylate	69	7.711	7.704	0.007	87	728161	200.0	222.6	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	95	490404	200.0	206.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.967	7.966	0.001	98	882846	200.0	212.0	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	90	875842	200.0	207.6	
85 2-Hexanone	43	8.174	8.174	0.000	95	1688994	1000.0	1010.2	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	713914	200.0	209.1	
87 Chlorodibromomethane	129	8.363	8.369	-0.006	98	841222	200.0	212.2	
88 Ethylene Dibromide	107	8.528	8.527	0.001	98	635317	200.0	204.8	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	84	425103	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	97	1983820	200.0	204.0	
92 Ethylbenzene	106	9.204	9.198	0.006	98	1042565	200.0	213.8	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.222	0.001	95	918823	200.0	222.5	
93 m-Xylene & p-Xylene	106	9.351	9.350	0.001	0	1264692	200.0	211.8	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	425296	200.0	218.5	
95 o-Xylene	106	9.820	9.814	0.006	93	1342558	200.0	217.2	
96 Styrene	104	9.851	9.844	0.007	96	2103544	200.0	212.7	
97 Amyl acetate (mixed isomer	43	10.027	10.033	-0.006	92	842762	200.0	222.6	
98 Bromoform	173	10.082	10.082	0.000	98	582147	200.0	212.3	
99 Isopropylbenzene	105	10.204	10.198	0.006	95	3877510	200.0	204.9	
$ 100 4-Bromofluorobenzene	174	10.418	10.417	0.001	95	212588	50.0	50.8	
101 Bromobenzene	156	10.564	10.564	0.000	90	946574	200.0	211.2	
102 1,1,2,2-Tetrachloroethane	83	10.600	10.600	0.000	97	819672	200.0	215.7	
103 N-Propylbenzene	91	10.625	10.625	0.001	99	4065987	200.0	222.3	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	96	250623	200.0	202.9	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	93	187717	200.0	206.7	
107 4-Ethyltoluene	105	10.741	10.740	0.001	90	3531350	200.0	217.2	
106 2-Chlorotoluene	91	10.741	10.740	0.001	90	2804849	200.0	215.7	
108 1,3,5-Trimethylbenzene	105	10.808	10.807	0.001	93	3287193	200.0	227.4	
109 4-Chlorotoluene	91	10.856	10.856	0.000	96	2336497	200.0	212.2	
110 Butyl Methacrylate	87	10.899	10.899	0.000	88	914381	200.0	239.0	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	2797349	200.0	213.0	
112 1,2,4-Trimethylbenzene	105	11.167	11.167	0.000	97	3343124	200.0	224.6	
113 sec-Butylbenzene	105	11.308	11.307	0.001	99	4237978	200.0	211.0	
114 4-Isopropyltoluene	119	11.442	11.435	0.007	98	3732274	200.0	207.8	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	98	1769581	200.0	204.6	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	92	240628	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	1769242	200.0	203.6	
118 Benzyl chloride	91	11.667	11.667	0.000	99	1516345	200.0	223.2	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	94	3375231	200.0	215.5	
120 p-Diethylbenzene	119	11.777	11.777	0.000	94	1962558	200.0	213.3	
121 n-Butylbenzene	92	11.795	11.795	0.000	98	1704285	200.0	200.6	
122 1,2-Dichlorobenzene	146	11.868	11.862	0.006	99	1837491	200.0	208.0	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	96	3736258	200.0	226.8	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	92	176306	200.0	202.7	
125 1,3,5-Trichlorobenzene	180	12.643	12.642	0.001	98	1574098	200.0	207.5	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	95	1540363	200.0	207.9	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	95	765840	200.0	199.6	
128 Naphthalene	128	13.332	13.331	0.001	99	3738759	200.0	209.4	
129 1,2,3-Trichlorobenzene	180	13.521	13.520	0.001	96	1552398	200.0	204.9	
S 130 1,2-Dichloroethene, Total	100				0		400.0	404.4	
S 131 Xylenes, Total	100				0		400.0	429.1	
S 132 Total BTEX	1				0		1000.0	1063.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	5.00	Units: uL	
GASES Li_00250	Amount Added:	20.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

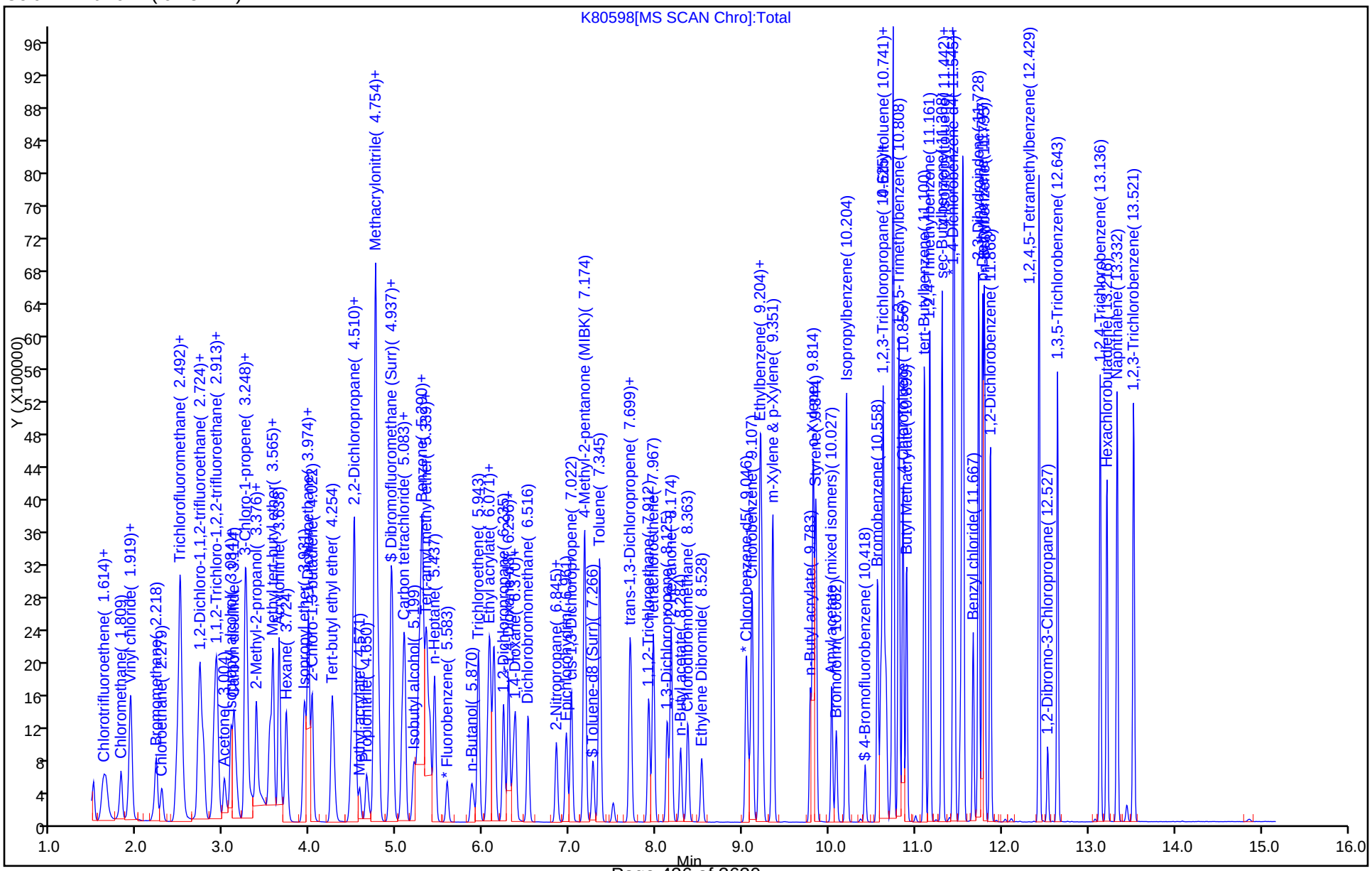
Report Date: 11-Mar-2018 17:12:01 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D

Injection Date:	10-Mar-2018 00:07:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

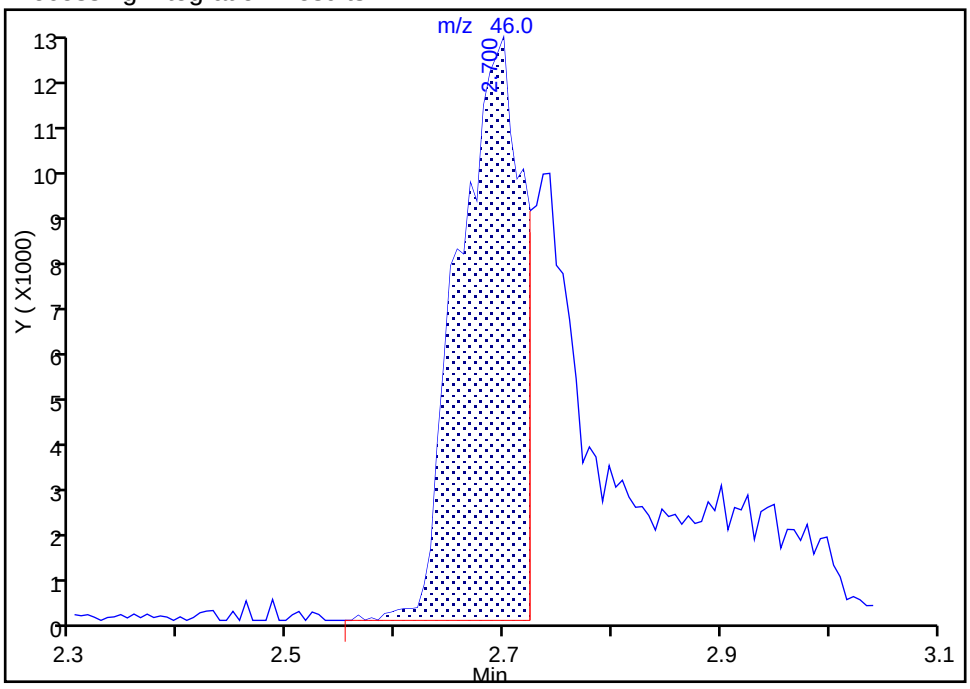
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D				
Injection Date:	10-Mar-2018 00:07:30	Instrument ID:	CVOAMS9		
Lims ID:	STD200				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

12 Ethanol, CAS: 64-17-5

Signal: 1

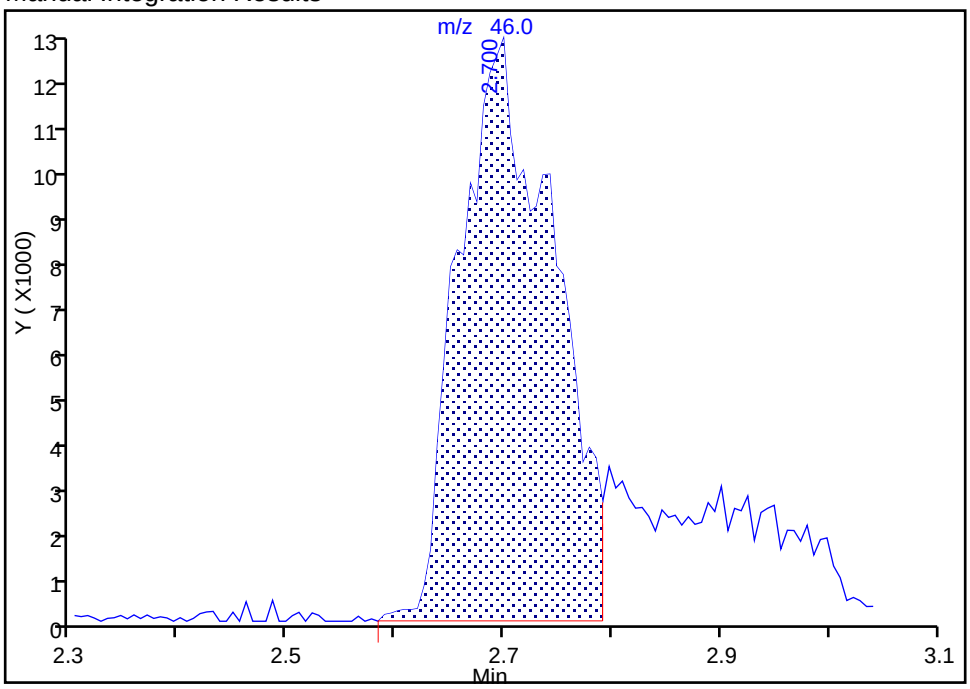
Processing Integration Results

RT: 2.70
Area: 51430
Amount: 7551.0026
Amount Units: ug/l



Manual Integration Results

RT: 2.70
Area: 76094
Amount: 7369.4989
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:31:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

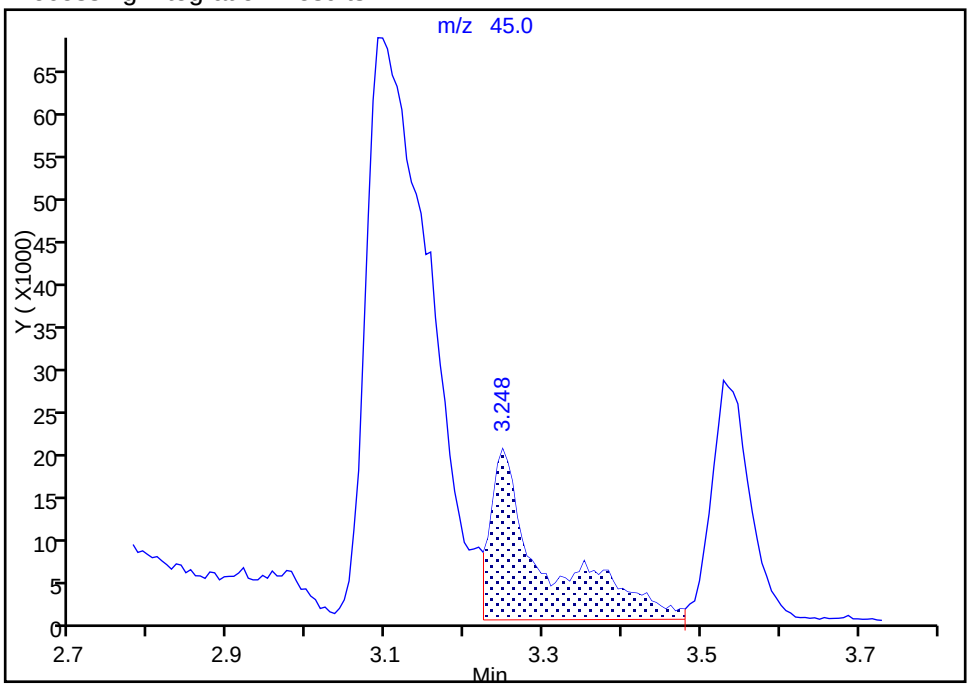
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D
Injection Date: 10-Mar-2018 00:07:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

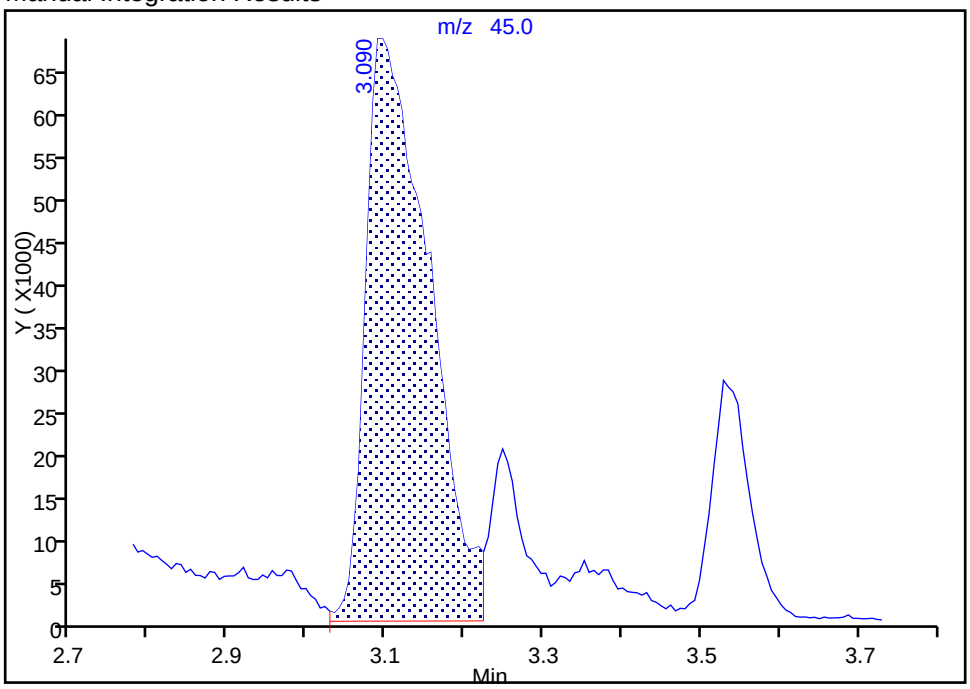
Processing Integration Results

RT: 3.25
Area: 97231
Amount: 682.6826
Amount Units: ug/l



Manual Integration Results

RT: 3.09
Area: 382624
Amount: 2079.5875
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:31:53
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

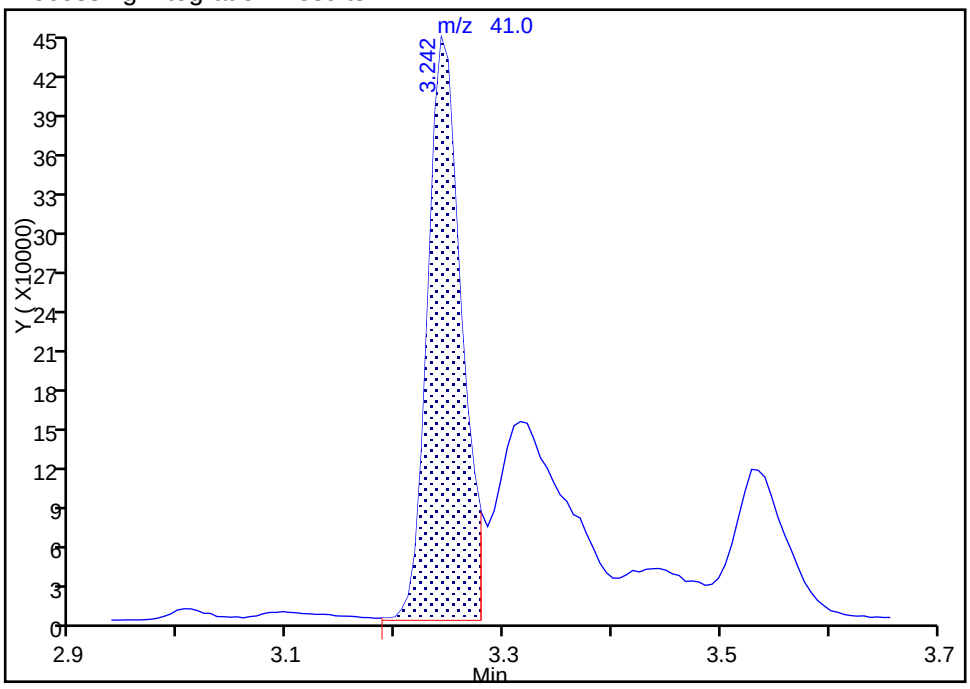
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D
Injection Date: 10-Mar-2018 00:07:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

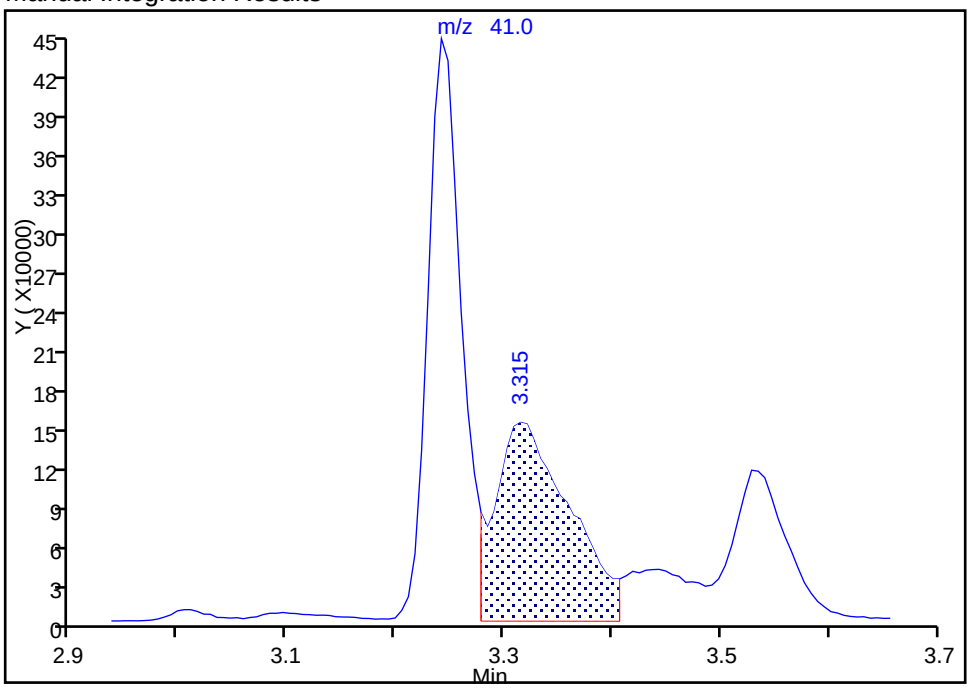
Processing Integration Results

RT: 3.24
Area: 961899
Amount: 2471.6445
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 733605
Amount: 2076.4354
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:31:58
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

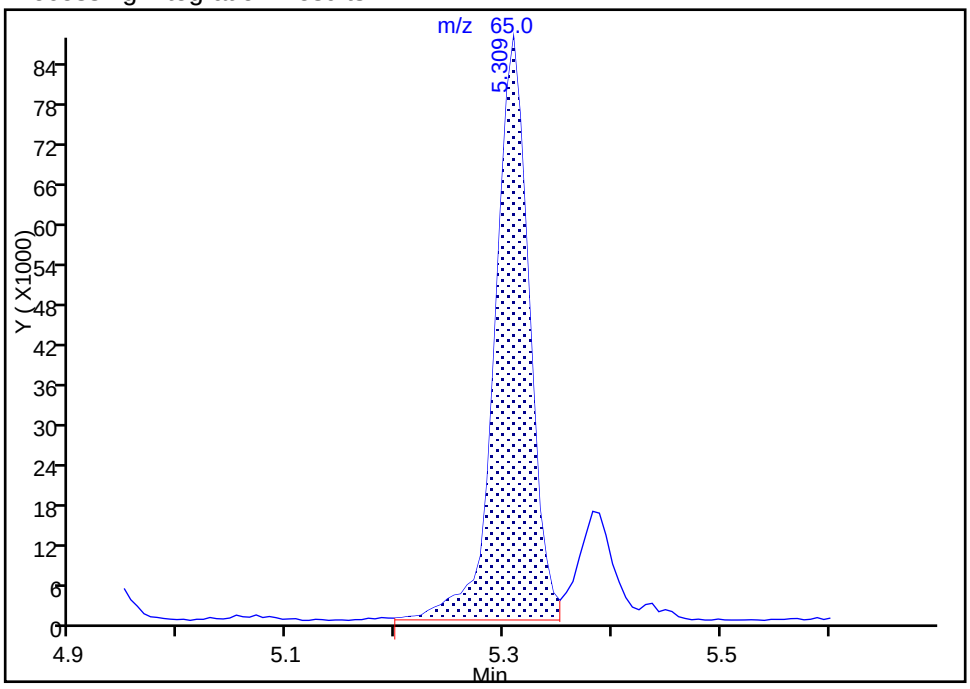
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D				
Injection Date:	10-Mar-2018 00:07:30	Instrument ID:	CVOAMS9		
Lims ID:	STD200				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

$ 55 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

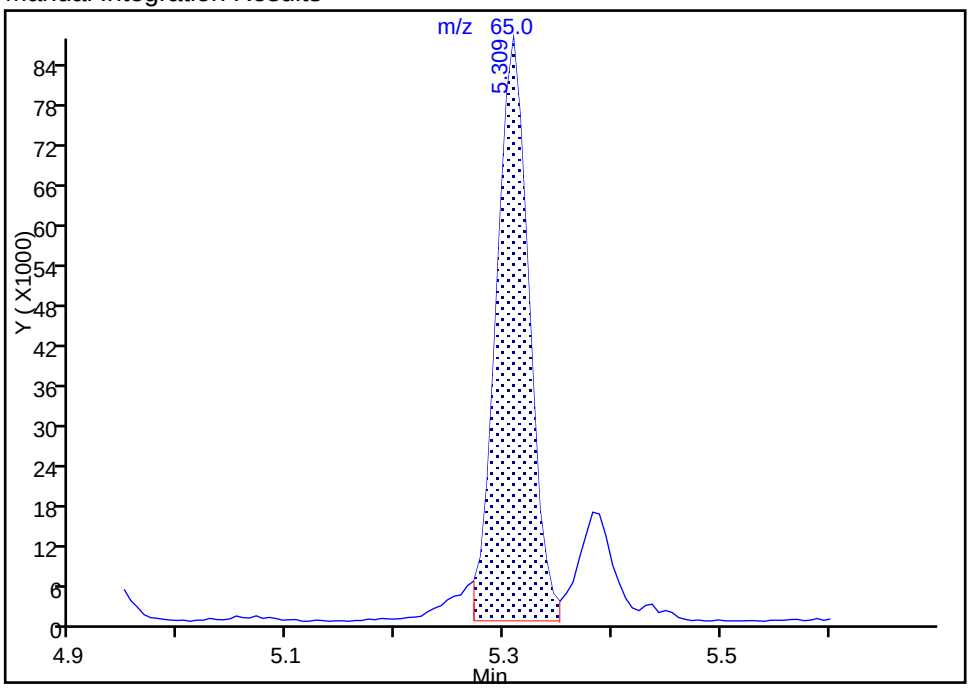
Processing Integration Results

RT: 5.31
Area: 194235
Amount: 53.912722
Amount Units: ug/l



Manual Integration Results

RT: 5.31
Area: 185476
Amount: 51.902148
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:35:32

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

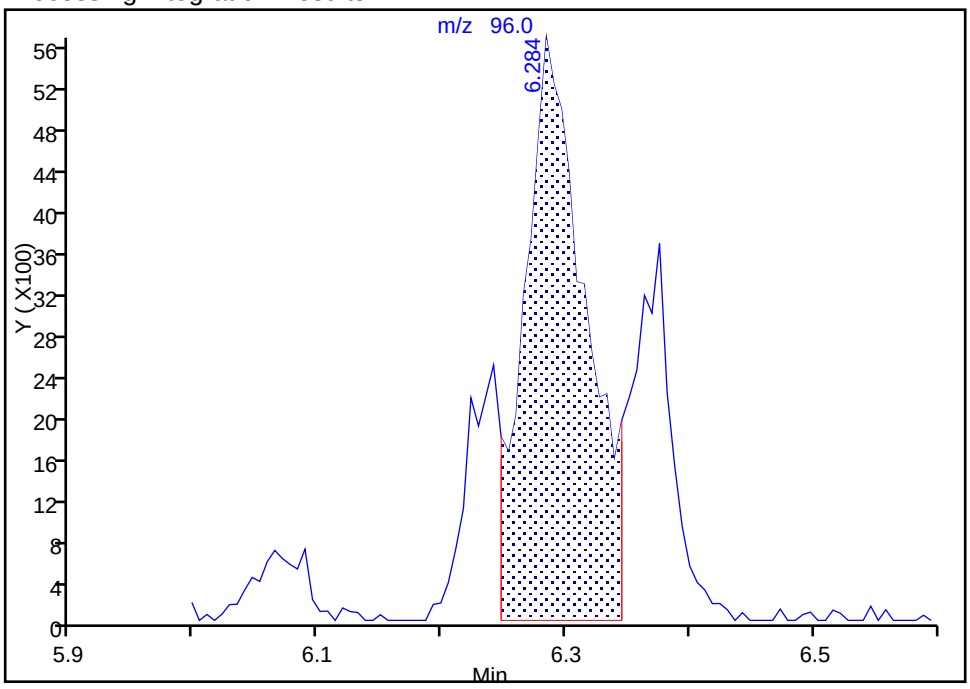
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80598.D
Injection Date: 10-Mar-2018 00:07:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

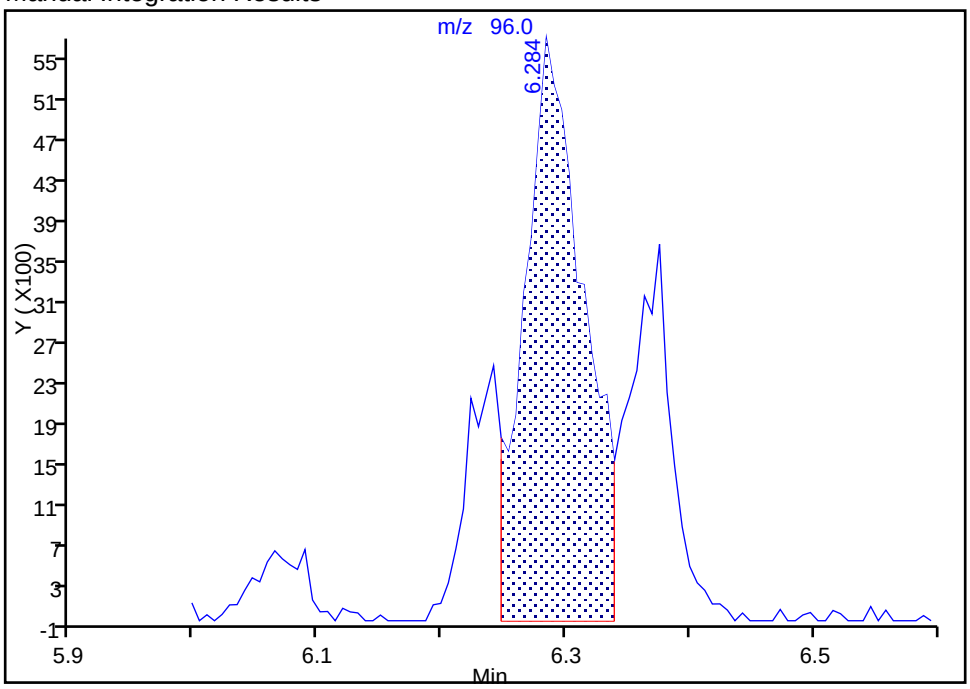
Processing Integration Results

RT: 6.28
Area: 19873
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.28
Area: 19191
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:33:54
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Mar-2018 00:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0068588-007
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:12:11 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: tupayachia Date: 10-Mar-2018 03:42:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.596	1.596	0.000	88	392978	500.0	440.8	
2 Dichlorodifluoromethane	85	1.626	1.638	-0.012	99	2871470	500.0	444.2	
3 Chloromethane	50	1.809	1.803	0.006	99	2183458	500.0	479.2	
5 Butadiene	54	1.919	1.913	0.006	98	1721392	500.0	502.1	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	2271907	500.0	471.5	
6 Bromomethane	94	2.212	2.212	0.000	98	1893379	500.0	459.1	
7 Chloroethane	64	2.279	2.279	0.000	100	1163867	500.0	484.8	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	99	3602632	500.0	465.4	
8 Trichlorofluoromethane	101	2.492	2.486	0.006	98	3517632	500.0	456.3	
10 Pentane	72	2.492	2.498	-0.006	94	488293	1000.0	873.4	
12 Ethanol	46	2.699	2.687	0.012	75	217233	20000	18828	
11 Ethyl ether	59	2.687	2.699	-0.012	95	1076692	500.0	441.5	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	95	1271265	500.0	450.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.760	-0.006	87	1695441	500.0	461.8	
15 Acrolein	56	2.876	2.882	-0.006	95	238046	600.0	579.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.895	2.894	0.000	97	2169690	500.0	437.6	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	1727151	500.0	444.6	
18 Acetone	43	2.998	3.004	-0.006	85	3115704	2500.0	2499.3	
19 Iodomethane	142	3.083	3.083	0.000	100	3798552	500.0	466.2	
22 Isopropyl alcohol	45	3.083	3.083	0.000	1	1033713	5000.0	5028.1	a
20 Carbon disulfide	76	3.114	3.120	-0.006	98	5919604	500.0	479.0	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	93	958623	500.0	467.4	
23 Methyl acetate	43	3.242	3.248	-0.006	98	4662269	2500.0	2353.5	
24 Cyclopentene	67	3.260	3.266	-0.006	91	3506775	500.0	440.7	
29 Acetonitrile	41	3.309	3.315	-0.006	88	1837237	5000.0	4653.9	a
* 25 TBA-d9 (IS)	65	3.352	3.358	-0.006	0	326866	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.376	-0.006	86	1855692	500.0	429.6	
27 2-Methyl-2-propanol	59	3.425	3.431	-0.006	95	2119104	5000.0	4526.7	
28 Methyl tert-butyl ether	73	3.529	3.534	-0.005	95	4906358	500.0	464.4	
30 trans-1,2-Dichloroethene	96	3.565	3.571	-0.006	92	1738556	500.0	456.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	91	4895512	5000.0	4702.2	
32 Hexane	43	3.718	3.717	0.001	90	1152416	500.0	470.7	
33 Isopropyl ether	45	3.925	3.931	-0.006	96	4312862	500.0	457.1	
35 Vinyl acetate	86	3.974	3.973	0.001	99	546596	1000.0	903.4	
34 1,1-Dichloroethane	63	3.974	3.973	0.001	99	2739512	500.0	456.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.022	-0.006	91	1448167	500.0	475.6	
37 Tert-butyl ethyl ether	59	4.248	4.254	-0.006	89	4828434	500.0	470.9	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	244244	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.485	0.001	95	940141	500.0	463.1	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	98	2028523	500.0	450.5	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	97	1027550	2500.0	2329.6	
41 Ethyl acetate	70	4.510	4.510	0.000	93	340294	1000.0	900.0	
44 Methyl acrylate	55	4.565	4.571	-0.006	99	1301761	500.0	517.4	
43 Propionitrile	54	4.650	4.650	0.000	97	2176747	5000.0	4576.2	
46 Chlorobromomethane	128	4.736	4.735	0.001	76	1075722	500.0	448.9	
45 Tetrahydrofuran	72	4.730	4.735	-0.005	88	449595	1000.0	843.1	
47 Methacrylonitrile	67	4.754	4.754	0.000	92	5909398	5000.0	4768.6	
48 Chloroform	83	4.784	4.784	0.000	99	3236109	500.0	452.0	
49 Cyclohexane	84	4.931	4.937	-0.006	88	2635117	500.0	447.3	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	37	170155	50.0	43.6	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	97	3245807	500.0	477.2	
52 Carbon tetrachloride	117	5.065	5.065	0.000	97	3015059	500.0	496.2	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	96	2244467	500.0	483.6	
56 Isobutyl alcohol	74	5.193	5.193	0.000	96	223541	12500	12928	
54 Benzene	78	5.290	5.290	0.000	96	6351108	500.0	459.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.309	5.302	0.007	0	186531	50.0	48.3	M
57 Isopropyl acetate	43	5.327	5.327	0.000	96	4506502	500.0	472.6	a
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	91	5311417	500.0	479.7	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	98	2365300	500.0	460.4	
60 n-Heptane	57	5.437	5.430	0.007	87	1197948	500.0	451.5	
* 61 Fluorobenzene	96	5.583	5.577	0.006	100	567210	50.0	50.0	
62 n-Butanol	56	5.863	5.863	0.000	88	1328834	12500	14150	
63 Trichloroethene	95	5.943	5.943	0.001	97	1928079	500.0	489.2	
64 Ethyl acrylate	56	6.071	6.064	0.007	80	974357	500.0	496.0	a
65 Methylcyclohexane	83	6.071	6.071	0.000	94	3196547	500.0	452.2	
66 1,2-Dichloropropane	63	6.235	6.235	0.000	89	1521037	500.0	470.0	
* 67 1,4-Dioxane-d8	96	6.284	6.284	0.000	0	20165	1000.0	1000.0	
68 Methyl methacrylate	41	6.290	6.290	0.000	83	2624401	1000.0	1068.6	
70 n-Propyl acetate	43	6.345	6.345	0.000	97	1958688	500.0	542.3	
69 1,4-Dioxane	88	6.345	6.345	0.000	27	365317	10000	10148	
71 Dibromomethane	93	6.369	6.369	0.000	93	1210960	500.0	492.1	
72 Dichlorobromomethane	83	6.516	6.516	0.000	98	2560049	500.0	504.4	
74 2-Nitropropane	41	6.845	6.845	0.000	91	955530	1000.0	1128.7	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	87	774683	500.0	546.5	
75 Epichlorohydrin	57	6.961	6.955	0.007	99	3206132	10000	9591.3	
76 cis-1,3-Dichloropropene	75	7.022	7.015	0.007	93	2821717	500.0	506.5	
77 4-Methyl-2-pentanone (MIBK	43	7.174	7.168	0.006	94	7031663	2500.0	2331.4	
$ 78 Toluene-d8 (Surr)	98	7.266	7.265	0.001	97	636508	50.0	45.5	
79 Toluene	91	7.345	7.345	0.000	92	7739026	500.0	475.7	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	98	2542225	500.0	522.0	
81 Ethyl methacrylate	69	7.705	7.704	0.001	87	1979175	500.0	530.9	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	95	1303679	500.0	481.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.967	7.966	0.001	97	2286591	500.0	481.9	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	90	2369577	500.0	492.8	
85 2-Hexanone	43	8.174	8.174	0.000	94	4900692	2500.0	2510.5	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	1991929	500.0	511.8	
87 Chlorodibromomethane	129	8.369	8.369	0.000	98	2295430	500.0	508.0	
88 Ethylene Dibromide	107	8.528	8.527	0.001	99	1749017	500.0	494.7	
* 89 Chlorobenzene-d5	117	9.076	9.070	0.006	83	484474	50.0	50.0	
90 Chlorobenzene	112	9.113	9.107	0.006	96	5247613	500.0	473.5	
92 Ethylbenzene	106	9.204	9.198	0.006	98	2680683	500.0	482.3	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.222	0.001	94	2380747	500.0	505.8	
93 m-Xylene & p-Xylene	106	9.351	9.350	0.001	0	3309337	500.0	486.4	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	1187367	500.0	535.3	
95 o-Xylene	106	9.820	9.814	0.006	93	3443745	500.0	488.9	
96 Styrene	104	9.850	9.844	0.006	95	5558586	500.0	493.1	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	92	2318556	500.0	536.0	
98 Bromoform	173	10.082	10.082	0.000	98	1634815	500.0	523.2	
99 Isopropylbenzene	105	10.204	10.198	0.006	95	9777467	500.0	452.9	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	96	216082	50.0	45.3	
101 Bromobenzene	156	10.564	10.564	0.000	91	2530724	500.0	494.2	
102 1,1,2,2-Tetrachloroethane	83	10.600	10.600	0.000	97	2187081	500.0	503.9	
103 N-Propylbenzene	91	10.625	10.625	0.001	100	10398463	500.0	497.6	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	97	670256	500.0	474.9	
105 trans-1,4-Dichloro-2-buten	53	10.667	10.661	0.006	93	531920	500.0	512.6	
106 2-Chlorotoluene	91	10.741	10.740	0.001	91	7259794	500.0	488.8	
107 4-Ethyltoluene	105	10.741	10.740	0.001	90	9012342	500.0	485.2	
108 1,3,5-Trimethylbenzene	105	10.808	10.807	0.001	93	8523199	500.0	516.0	
109 4-Chlorotoluene	91	10.856	10.856	0.000	97	6255694	500.0	497.2	
110 Butyl Methacrylate	87	10.899	10.899	0.000	89	2465039	500.0	563.9	
111 tert-Butylbenzene	119	11.106	11.100	0.006	94	7300161	500.0	485.9	
112 1,2,4-Trimethylbenzene	105	11.167	11.167	0.000	97	8618699	500.0	506.9	
113 sec-Butylbenzene	105	11.307	11.307	0.000	99	10982894	500.0	478.2	
114 4-Isopropyltoluene	119	11.442	11.435	0.007	98	9630278	500.0	468.9	
115 1,3-Dichlorobenzene	146	11.454	11.448	0.006	98	4600197	500.0	465.7	
* 116 1,4-Dichlorobenzene-d4	152	11.521	11.515	0.006	92	274907	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	4603018	500.0	463.7	
118 Benzyl chloride	91	11.667	11.667	0.000	99	4267722	500.0	549.9	
119 2,3-Dihydroindene	117	11.734	11.728	0.006	94	8607916	500.0	481.1	
120 p-Diethylbenzene	119	11.777	11.777	0.000	94	5085226	500.0	483.9	
121 n-Butylbenzene	92	11.795	11.795	0.000	96	4456415	500.0	458.7	
122 1,2-Dichlorobenzene	146	11.868	11.862	0.006	98	4781666	500.0	473.8	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	97	9627690	500.0	511.5	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	93	491787	500.0	495.0	
125 1,3,5-Trichlorobenzene	180	12.643	12.642	0.001	98	4057039	500.0	468.1	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	95	3957268	500.0	467.5	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	95	2157746	500.0	491.6	
128 Naphthalene	128	13.331	13.331	0.000	99	9624845	500.0	471.9	
129 1,2,3-Trichlorobenzene	180	13.527	13.520	0.007	97	3971300	500.0	458.8	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	906.8	
S 131 Xylenes, Total	100				0		1000.0	975.3	
S 132 Total BTEX	1				0		2500.0	2392.9	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	50.00	Units: uL	
ACROLEIN W_00074	Amount Added:	6.00	Units: uL	
GASES Li_00250	Amount Added:	50.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

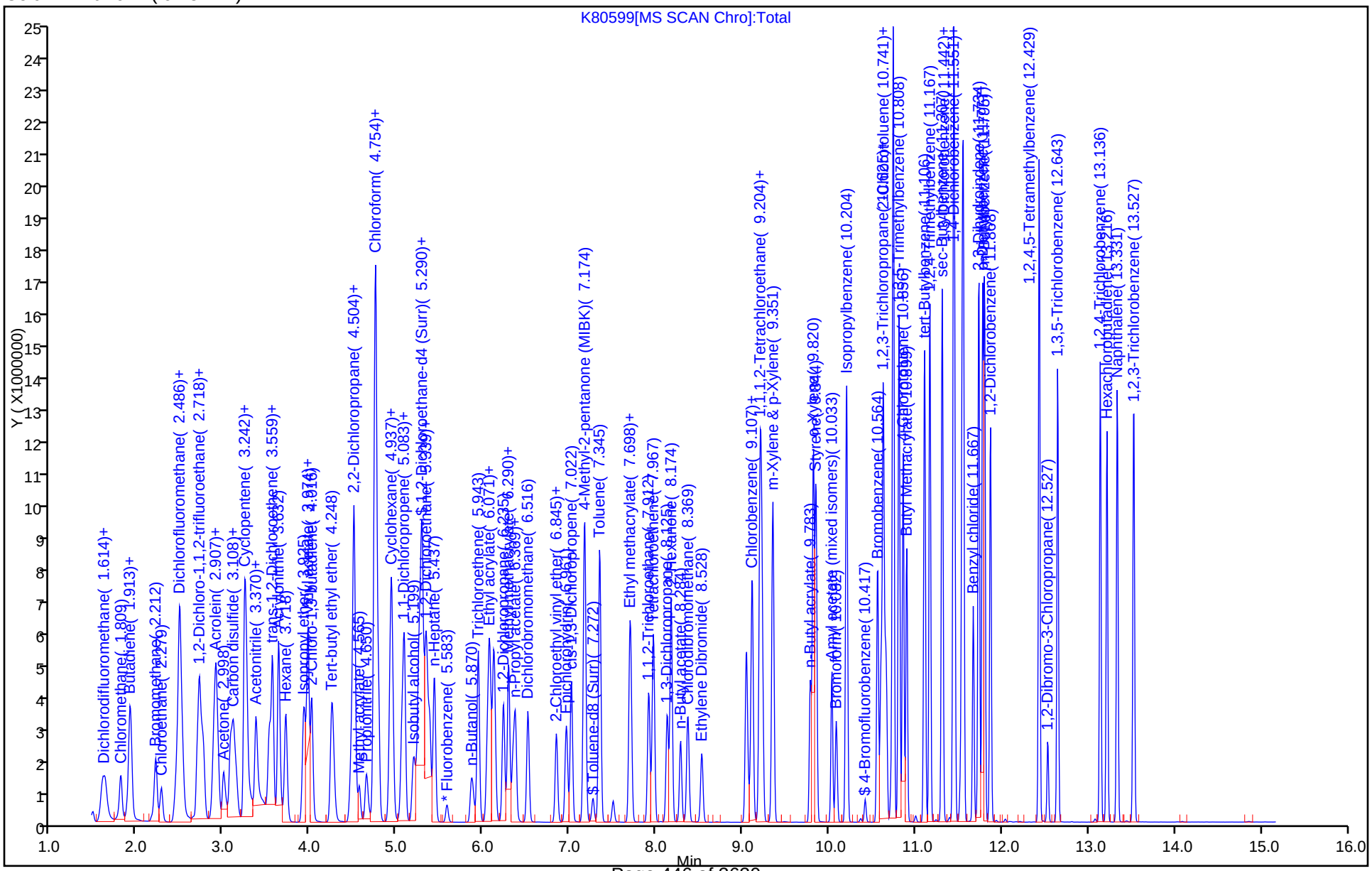
Report Date: 11-Mar-2018 17:12:13 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Injection Date:	10-Mar-2018 00:31:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

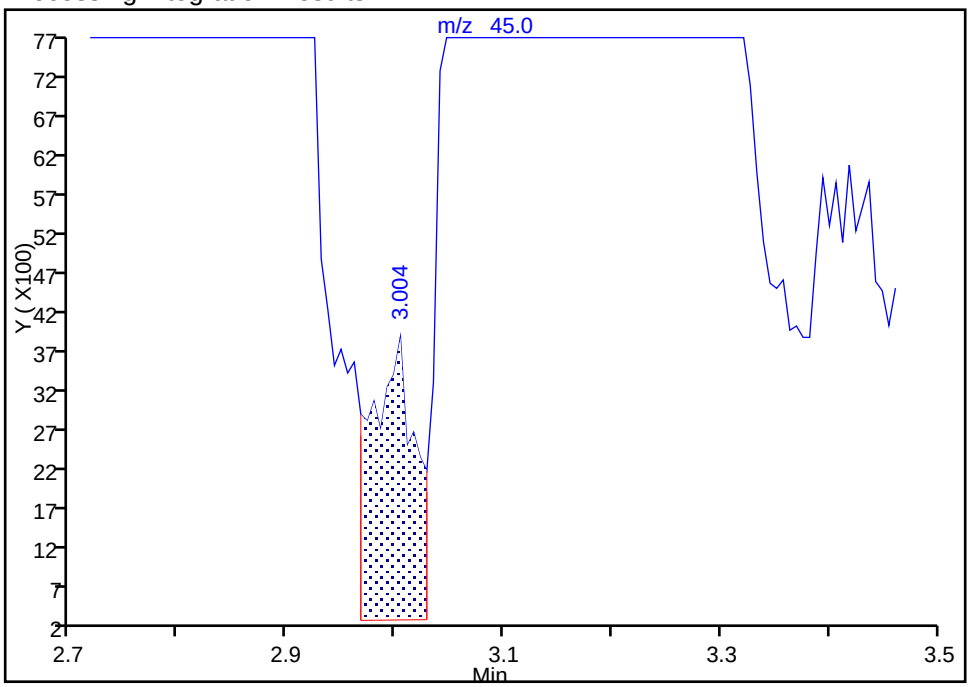
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Injection Date: 10-Mar-2018 00:31:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

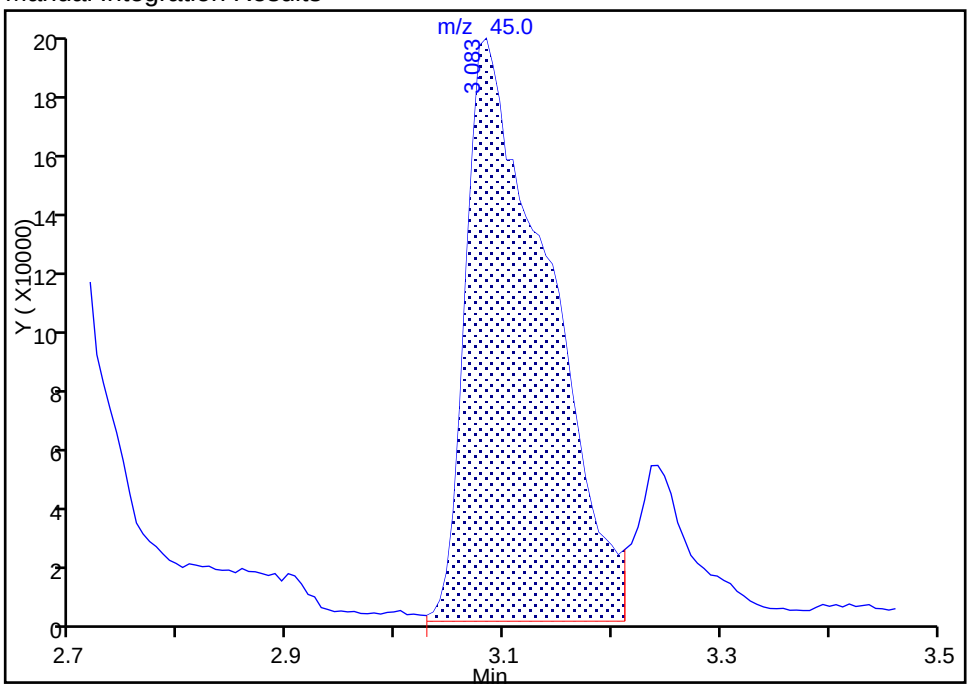
Processing Integration Results

RT: 3.00
Area: 10498
Amount: 56.526264
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 1033713
Amount: 5028.0513
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:34:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

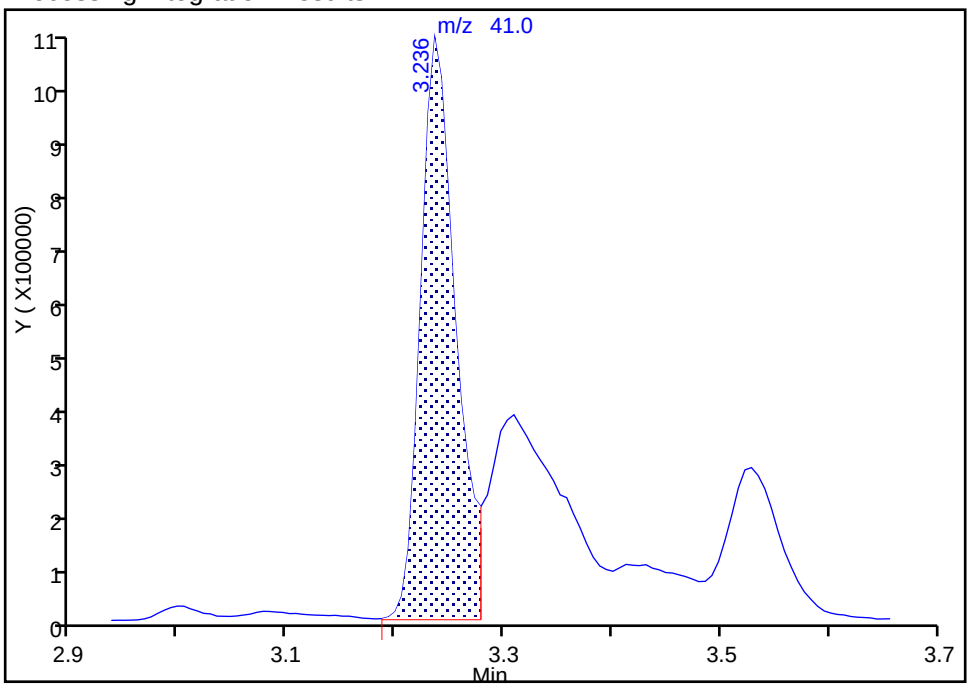
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Injection Date: 10-Mar-2018 00:31:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

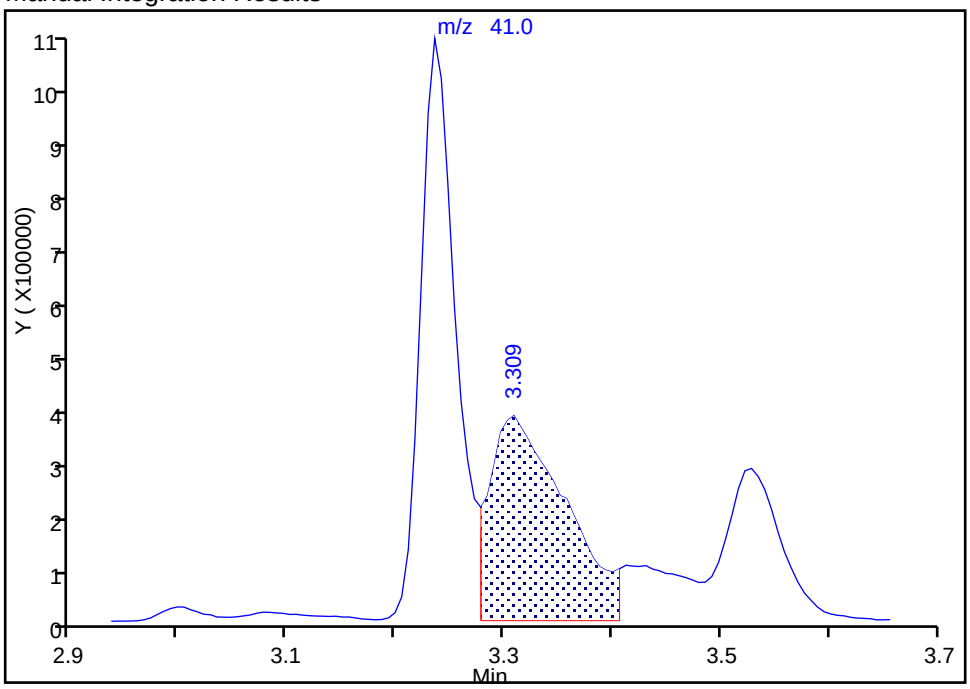
Processing Integration Results

RT: 3.24
Area: 2402045
Amount: 5807.6316
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 1837237
Amount: 4653.8893
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:34:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

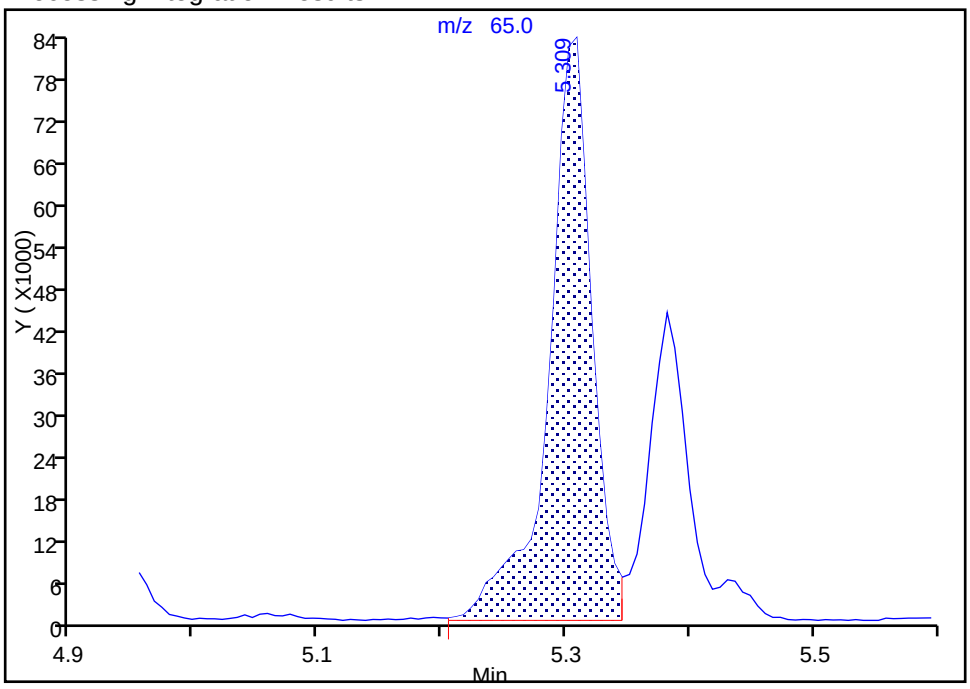
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Injection Date: 10-Mar-2018 00:31:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

$ 55 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

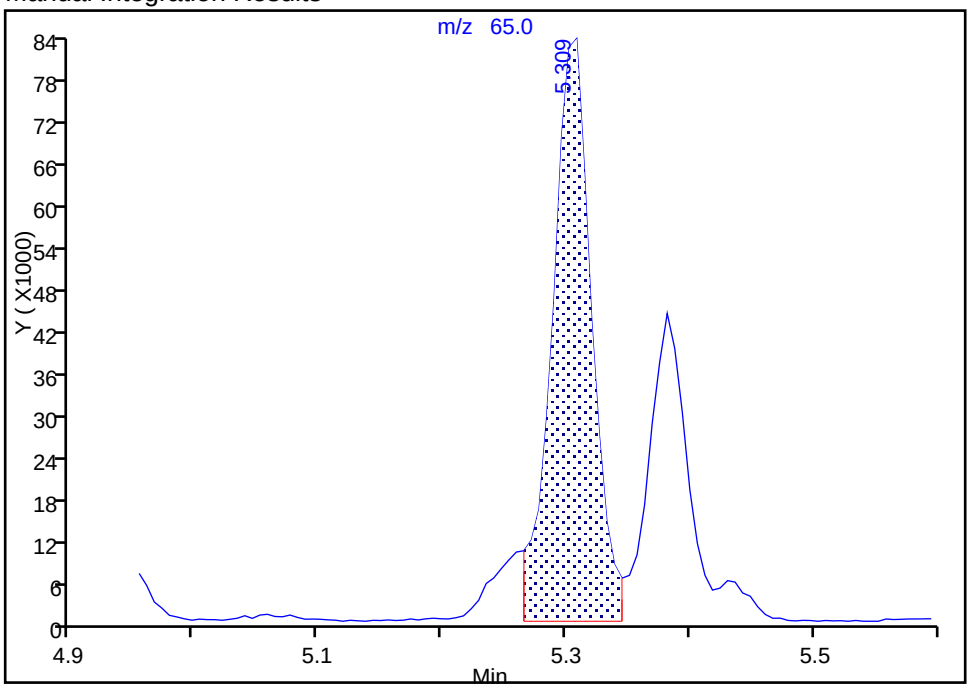
Processing Integration Results

RT: 5.31
Area: 202657
Amount: 51.350271
Amount Units: ug/l



Manual Integration Results

RT: 5.31
Area: 186531
Amount: 48.308312
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:35:11
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

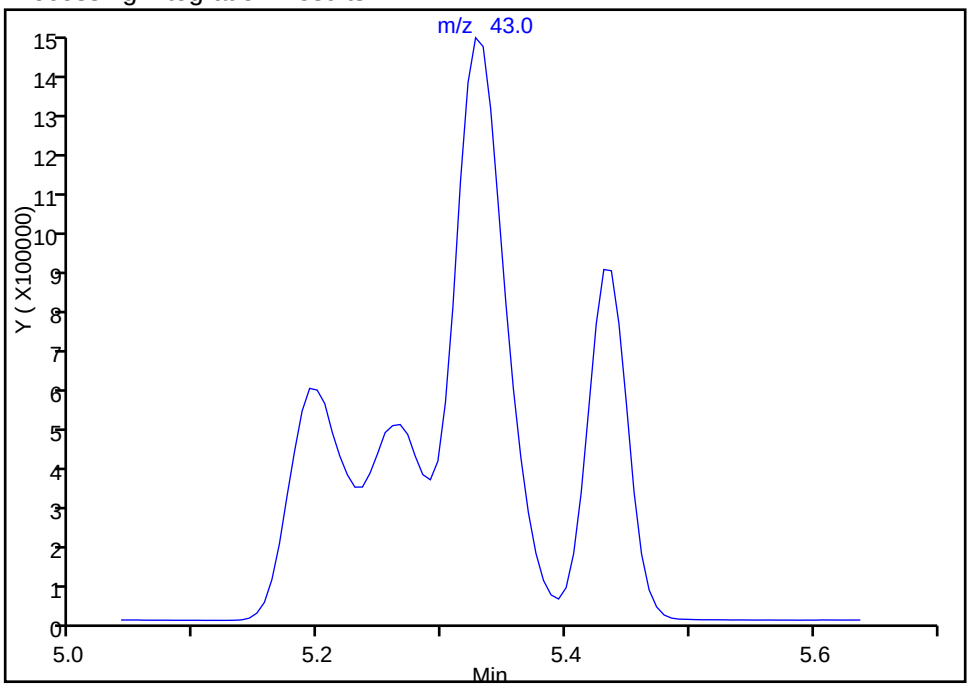
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Injection Date: 10-Mar-2018 00:31:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

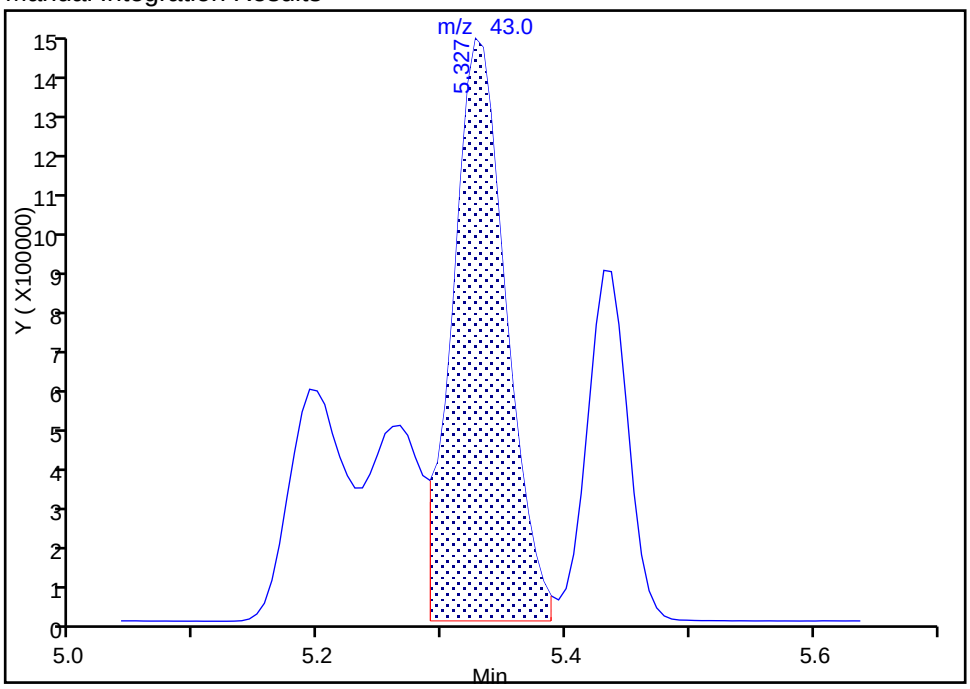
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 4506502
Amount: 472.5591
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:34:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

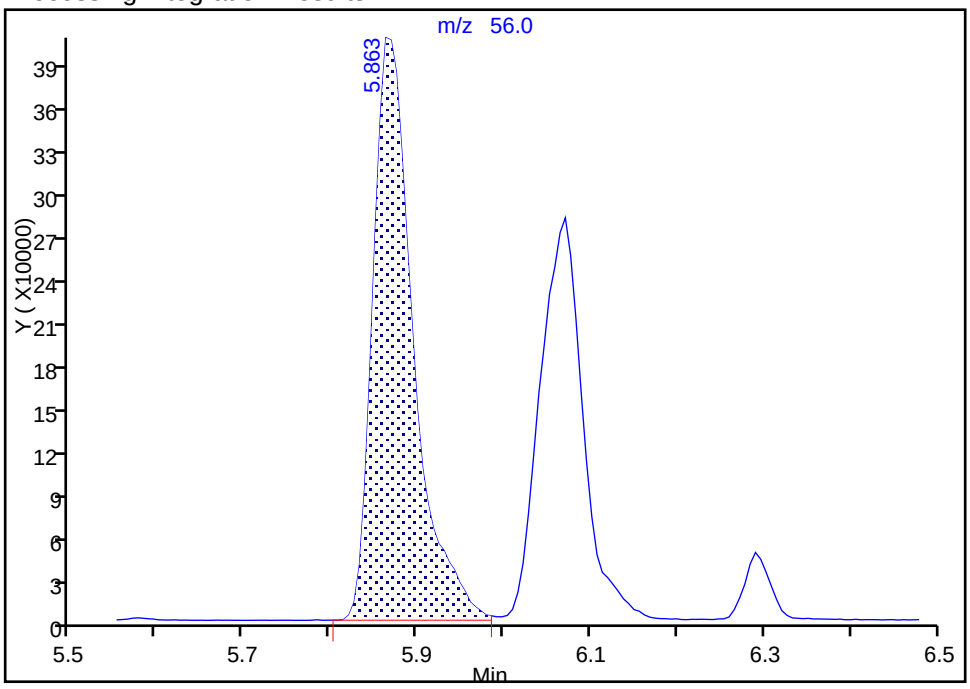
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D
Injection Date: 10-Mar-2018 00:31:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

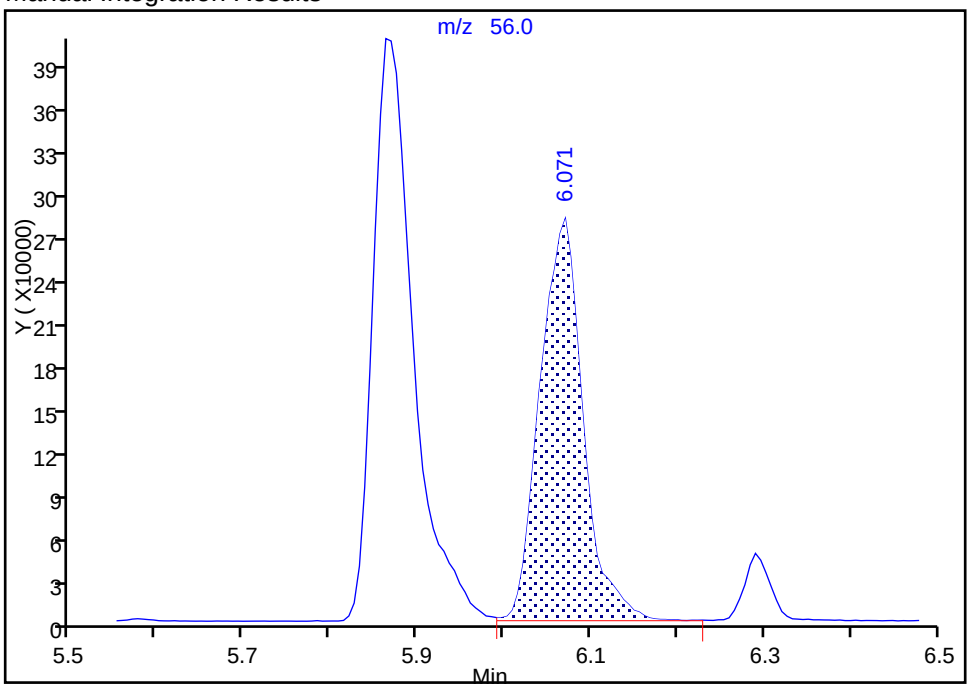
Processing Integration Results

RT: 5.86
Area: 1326117
Amount: 637.0955
Amount Units: ug/l



Manual Integration Results

RT: 6.07
Area: 974357
Amount: 496.0451
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 16:34:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504711/3 Instrument ID (1): CVOAMS9

GC Column (1): Rtx-624 ID: 0.25(mm) Date Analyzed (1): 03/20/2018 10:04

ANALYTE	RT	RESOLUTION (%)
Xylenes, Total		100.0
Dichlorodifluoromethane	1.63	100.0
Chloromethane	1.80	100.0
Vinyl chloride	1.91	100.0
Bromomethane	2.20	100.0
Chloroethane	2.27	100.0
Trichlorofluoromethane	2.47	100.0
Ethanol	2.71	100.0
Acrolein	2.88	100.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.89	100.0
1,1-Dichloroethene	2.92	100.0
Acetone	3.00	100.0
Isopropyl alcohol	3.08	100.0
Carbon disulfide	3.12	100.0
Methyl acetate	3.25	100.0
Acetonitrile	3.31	100.0
Methylene Chloride	3.38	100.0
2-Methyl-2-propanol	3.43	100.0
Methyl tert-butyl ether	3.54	100.0
trans-1,2-Dichloroethene	3.57	100.0
Acrylonitrile	3.64	100.0
1,1-Dichloroethane	3.97	100.0
cis-1,2-Dichloroethene	4.50	100.0
2-Butanone (MEK)	4.50	100.0
Propionitrile	4.64	100.0
Chlorobromomethane	4.74	100.0
Methacrylonitrile	4.75	100.0
Chloroform	4.78	100.0
Cyclohexane	4.93	100.0
Dibromofluoromethane (Surr)	4.94	100.0
1,1,1-Trichloroethane	4.94	100.0
Carbon tetrachloride	5.07	100.0
Isobutyl alcohol	5.19	100.0
Benzene	5.29	100.0
1,2-Dichloroethane-d4 (Surr)	5.30	100.0
1,2-Dichloroethane	5.38	100.0
n-Butanol	5.86	100.0
Trichloroethene	5.94	100.0
Methylcyclohexane	6.07	100.0
1,2-Dichloropropane	6.23	100.0
1,4-Dioxane	6.34	100.0
Dichlorobromomethane	6.51	100.0
Epichlorohydrin	6.96	100.0
cis-1,3-Dichloropropene	7.02	100.0
4-Methyl-2-pentanone (MIBK)	7.17	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504711/3 Instrument ID (1): CVOAMS9

GC Column (1): Rtx-624 ID: 0.25(mm) Date Analyzed (1): 03/20/2018 10:04

ANALYTE	RT	RESOLUTION (%)
Toluene-d8 (Surr)	7.27	100.0
Toluene	7.35	100.0
trans-1,3-Dichloropropene	7.69	100.0
1,1,2-Trichloroethane	7.91	100.0
Tetrachloroethene	7.96	100.0
2-Hexanone	8.17	100.0
Chlorodibromomethane	8.36	100.0
Ethylene Dibromide	8.53	100.0
Chlorobenzene	9.11	100.0
Ethylbenzene	9.20	100.0
m-Xylene & p-Xylene	9.35	100.0
o-Xylene	9.81	100.0
Styrene	9.84	100.0
Bromoform	10.08	100.0
Isopropylbenzene	10.20	100.0
4-Bromofluorobenzene	10.42	100.0
1,1,2,2-Tetrachloroethane	10.59	100.0
N-Propylbenzene	10.63	100.0
1,3,5-Trimethylbenzene	10.81	100.0
tert-Butylbenzene	11.10	100.0
1,2,4-Trimethylbenzene	11.16	100.0
sec-Butylbenzene	11.31	100.0
1,3-Dichlorobenzene	11.45	100.0
1,4-Dichlorobenzene	11.54	100.0
n-Butylbenzene	11.80	100.0
1,2-Dichlorobenzene	11.87	100.0
1,2-Dibromo-3-Chloropropane	12.53	100.0
1,2,4-Trichlorobenzene	13.14	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504963/2 Instrument ID (1): CVOAMS13

GC Column (1): Rtx-624 ID: 0.25(mm) Date Analyzed (1): 03/21/2018 08:50

ANALYTE	RT	RESOLUTION (%)
Vinyl chloride	1.01	100.0
1,1-Dichloroethene	1.57	100.0
Chloroform	2.91	100.0
Carbon tetrachloride	3.00	100.0
Dibromofluoromethane (Surr)	3.04	100.0
2-Butanone (MEK)	3.14	100.0
Benzene	3.34	100.0
1,2-Dichloroethane-d4 (Surr)	3.44	100.0
1,2-Dichloroethane	3.50	100.0
Trichloroethene	3.83	100.0
Toluene-d8 (Surr)	5.23	100.0
Tetrachloroethene	5.71	100.0
Chlorobenzene	7.12	100.0
4-Bromofluorobenzene	8.89	100.0
1,4-Dichlorobenzene	10.67	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505144/2 Instrument ID (1): CVOAMS13

GC Column (1): Rtx-624 ID: 0.25(mm) Date Analyzed (1): 03/22/2018 07:07

ANALYTE	RT	RESOLUTION (%)
Xylenes, Total		100.0
Dichlorodifluoromethane	0.87	100.0
Chloromethane	0.99	100.0
Vinyl chloride	1.01	100.0
Bromomethane	1.17	100.0
Chloroethane	1.22	100.0
Trichlorofluoromethane	1.29	100.0
Ethanol	1.55	100.0
1,1-Dichloroethene	1.56	100.0
Carbon disulfide	1.58	100.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.59	100.0
Acrolein	1.74	100.0
Isopropyl alcohol	1.86	100.0
Methylene Chloride	1.88	100.0
Acetone	1.92	100.0
trans-1,2-Dichloroethene	1.97	100.0
Methyl acetate	1.99	100.0
Methyl tert-butyl ether	2.05	100.0
2-Methyl-2-propanol	2.12	100.0
Acetonitrile	2.19	100.0
1,1-Dichloroethane	2.35	100.0
Acrylonitrile	2.38	100.0
cis-1,2-Dichloroethene	2.71	100.0
Cyclohexane	2.84	100.0
Chlorobromomethane	2.85	100.0
Chloroform	2.91	100.0
Carbon tetrachloride	3.00	100.0
Dibromofluoromethane (Surr)	3.04	100.0
1,1,1-Trichloroethane	3.05	100.0
2-Butanone (MEK)	3.14	100.0
Benzene	3.34	100.0
Propionitrile	3.36	100.0
Methacrylonitrile	3.38	100.0
1,2-Dichloroethane-d4 (Surr)	3.44	100.0
1,2-Dichloroethane	3.50	100.0
Isobutyl alcohol	3.58	100.0
Methylcyclohexane	3.82	100.0
Trichloroethene	3.83	100.0
n-Butanol	4.22	100.0
1,2-Dichloropropane	4.29	100.0
Dichlorobromomethane	4.38	100.0
1,4-Dioxane	4.60	100.0
cis-1,3-Dichloropropene	5.03	100.0
Toluene-d8 (Surr)	5.23	100.0
Toluene	5.28	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505144/2 Instrument ID (1): CVOAMS13

GC Column (1): Rtx-624 ID: 0.25(mm) Date Analyzed (1): 03/22/2018 07:07

ANALYTE	RT	RESOLUTION (%)
Epichlorohydrin	5.31	100.0
Tetrachloroethene	5.71	100.0
4-Methyl-2-pentanone (MIBK)	5.76	100.0
trans-1,3-Dichloropropene	5.78	100.0
1,1,2-Trichloroethane	5.96	100.0
Chlorodibromomethane	6.16	100.0
Ethylene Dibromide	6.42	100.0
2-Hexanone	6.82	100.0
Chlorobenzene	7.12	100.0
Ethylbenzene	7.21	100.0
m-Xylene & p-Xylene	7.43	100.0
o-Xylene	8.02	100.0
Bromoform	8.08	100.0
Styrene	8.11	100.0
Isopropylbenzene	8.51	100.0
4-Bromofluorobenzene	8.89	100.0
N-Propylbenzene	9.14	100.0
1,1,2,2-Tetrachloroethane	9.29	100.0
1,3,5-Trimethylbenzene	9.49	100.0
tert-Butylbenzene	9.96	100.0
1,2,4-Trimethylbenzene	10.09	100.0
sec-Butylbenzene	10.25	100.0
1,3-Dichlorobenzene	10.51	100.0
1,4-Dichlorobenzene	10.67	100.0
n-Butylbenzene	11.22	100.0
1,2-Dichlorobenzene	11.32	100.0
1,2-Dibromo-3-Chloropropane	12.37	100.0
1,2,4-Trichlorobenzene	13.08	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505151/2 Instrument ID (1): CVOAMS15

GC Column (1): DB-624 ID: 0.18(mm) Date Analyzed (1): 03/22/2018 07:07

ANALYTE	RT	RESOLUTION (%)
Vinyl chloride	1.10	100.0
1,1-Dichloroethene	1.80	100.0
2-Butanone (MEK)	3.08	100.0
Chloroform	3.33	100.0
Dibromofluoromethane (Surr)	3.47	100.0
Carbon tetrachloride	3.63	100.0
1,2-Dichloroethane-d4 (Surr)	3.77	100.0
Benzene	3.82	100.0
1,2-Dichloroethane	3.84	100.0
Trichloroethene	4.47	100.0
Toluene-d8 (Surr)	5.87	100.0
Tetrachloroethene	6.66	100.0
Chlorobenzene	7.86	100.0
4-Bromofluorobenzene	9.65	100.0
1,4-Dichlorobenzene	11.54	100.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-501512/14 Calibration Date: 03/06/2018 03:52

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42064.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1650	0.1524		18.5	20.0	-7.6	30.0
Dichlorodifluoromethane	Ave	0.5366	0.5457	0.1000	20.3	20.0	1.7	30.0
Chloromethane	Ave	0.4805	0.3964	0.1000	16.5	20.0	-17.5	30.0
Vinyl chloride	Ave	0.6098	0.5839	0.1000	19.2	20.0	-4.2	30.0
Butadiene	Ave	0.5453	0.5370		19.7	20.0	-1.5	30.0
Bromomethane	Ave	1.091	1.100	0.1000	20.2	20.0	0.9	30.0
Chloroethane	Ave	0.3858	0.3738	0.1000	19.4	20.0	-3.1	30.0
Pentane	Ave	1.902	2.146		45.1	40.0	12.8	30.0
Trichlorofluoromethane	Ave	0.5884	0.6441	0.1000	21.9	20.0	9.5	30.0
Dichlorofluoromethane	Ave	0.8010	0.8355		20.9	20.0	4.3	30.0
2-Methyl-1,3-butadiene	Ave	0.6185	0.6930		22.4	20.0	12.0	30.0
Ethyl ether	Ave	0.4224	0.4091		19.4	20.0	-3.2	30.0
Ethanol	Ave	0.0638	0.0678		850	800	6.3	30.0
1,1-Dichloroethene	Ave	0.4323	0.4016	0.1000	18.6	20.0	-7.1	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5400	0.5584		20.7	20.0	3.4	30.0
Carbon disulfide	Ave	1.588	1.469	0.1000	18.5	20.0	-7.5	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4008	0.4092	0.1000	20.4	20.0	2.1	30.0
Iodomethane	QuaF		0.2911		12.6	20.0	-37.1*	30.0
Cyclopentene	Ave	1.145	1.209		21.1	20.0	5.6	30.0
Acrolein	Ave	1.796	2.478		55.3	40.1	38.0*	30.0
Allyl chloride	Ave	0.2711	0.2666		19.7	20.0	-1.7	30.0
Isopropyl alcohol	Ave	0.7635	0.7422		194	200	-2.8	30.0
Methylene Chloride	Ave	0.5435	0.4901	0.1000	18.0	20.0	-9.8	30.0
Acetone	Qua2		0.8538	0.0500	106	100	6.4	30.0
trans-1,2-Dichloroethene	Ave	0.4757	0.4832	0.1000	20.3	20.0	1.6	30.0
Methyl acetate	Ave	0.3737	0.3663	0.1000	98.0	100	-2.0	30.0
Hexane	Ave	0.1163	0.1264		21.7	20.0	8.7	30.0
Methyl tert-butyl ether	Ave	1.346	1.389	0.1000	20.6	20.0	3.2	30.0
2-Methyl-2-propanol	Ave	1.184	1.147		194	200	-3.2	30.0
Acetonitrile	Ave	1.623	1.561		192	200	-3.8	30.0
Isopropyl ether	Ave	1.686	1.742		20.7	20.0	3.3	30.0
2-Chloro-1,3-butadiene	Ave	0.4218	0.4328		20.5	20.0	2.6	30.0
1,1-Dichloroethane	Ave	0.8373	0.8587	0.2000	20.5	20.0	2.6	30.0
Acrylonitrile	Ave	0.1891	0.1914		202	200	1.2	30.0
Tert-butyl ethyl ether	Ave	1.492	1.538		20.6	20.0	3.1	30.0
Vinyl acetate	Ave	1.026	1.079		42.1	40.0	5.2	30.0
cis-1,2-Dichloroethene	Ave	0.5098	0.5068	0.1000	19.9	20.0	-0.6	30.0
2,2-Dichloropropane	Ave	0.6049	0.6725		22.2	20.0	11.2	30.0
Cyclohexane	Ave	0.8085	0.8622	0.1000	21.3	20.0	6.6	30.0
Chlorobromomethane	Ave	0.2371	0.2409		20.3	20.0	1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-501512/14 Calibration Date: 03/06/2018 03:52

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42064.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.7600	0.7876	0.2000	20.7	20.0	3.6	30.0
Carbon tetrachloride	Ave	0.4934	0.5266	0.1000	21.3	20.0	6.7	30.0
Ethyl acetate	Ave	0.3519	0.3367		38.3	40.0	-4.3	30.0
Methyl acrylate	Ave	0.4321	0.4423		20.5	20.0	2.3	30.0
Tetrahydrofuran	Ave	1.192	1.160		38.9	40.0	-2.6	30.0
1,1,1-Trichloroethane	Ave	0.6194	0.6477	0.1000	20.9	20.0	4.6	30.0
1,1-Dichloropropene	Ave	0.6862	0.6713		19.6	20.0	-2.2	30.0
2-Butanone (MEK)	Ave	0.3737	0.3684	0.0500	98.6	100	-1.4	30.0
2,2,4-Trimethylpentane	Ave	1.429	1.555		21.8	20.0	8.8	30.0
n-Heptane	Ave	0.3783	0.4087		21.6	20.0	8.0	30.0
Benzene	Ave	1.575	1.640	0.5000	20.8	20.0	4.2	30.0
Propionitrile	Ave	1.611	1.667		207	200	3.5	30.0
Methacrylonitrile	Ave	0.2019	0.2102		208	200	4.1	30.0
Tert-amyl methyl ether	Ave	1.397	1.423		20.4	20.0	1.9	30.0
1,2-Dichloroethane	Ave	0.6103	0.5822	0.1000	19.1	20.0	-4.6	30.0
Isobutyl alcohol	Ave	0.4909	0.4636		472	500	-5.5	30.0
Isopropyl acetate	Ave	0.9027	0.9206		20.4	20.0	2.0	30.0
Methylcyclohexane	Ave	0.7859	0.8506	0.1000	21.6	20.0	8.2	30.0
Trichloroethene	Ave	0.4877	0.4929	0.2000	20.2	20.0	1.1	30.0
Dibromomethane	Ave	0.2813	0.2847		20.2	20.0	1.2	30.0
n-Butanol	Qua2		0.2783		513	500	2.6	30.0
1,2-Dichloropropane	Ave	0.5057	0.5234	0.1000	20.7	20.0	3.5	30.0
Ethyl acrylate	Ave	0.5860	0.6250		21.3	20.0	6.7	30.0
Dichlorobromomethane	Ave	0.5496	0.5904	0.2000	21.5	20.0	7.4	30.0
Methyl methacrylate	Ave	0.1288	0.1354		42.0	40.0	5.1	30.0
1,4-Dioxane	Ave	1.269	1.199		378	400	-5.5	30.0
n-Propyl acetate	Ave	0.6682	0.7066		21.1	20.0	5.7	30.0
2-Chloroethyl vinyl ether	Qua2		0.2879		20.9	20.0	4.4	30.0
cis-1,3-Dichloropropene	Ave	0.6080	0.6645	0.2000	21.9	20.0	9.3	30.0
Toluene	Ave	1.716	1.789	0.4000	20.9	20.0	4.3	30.0
Epichlorohydrin	Ave	0.2612	0.2780		21.3	20.0	6.4	30.0
2-Nitropropane	Ave	0.0975	0.0959		39.3	40.0	-1.7	30.0
Tetrachloroethene	Ave	0.4034	0.4135	0.2000	20.5	20.0	2.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.757	2.944	0.0500	107	100	6.8	30.0
trans-1,3-Dichloropropene	Ave	0.5188	0.5562	0.1000	21.4	20.0	7.2	30.0
1,1,2-Trichloroethane	Ave	0.2823	0.2994	0.1000	21.2	20.0	6.0	30.0
Ethyl methacrylate	Ave	0.5812	0.6260		21.5	20.0	7.7	30.0
Chlorodibromomethane	Ave	0.3392	0.3511	0.1000	20.7	20.0	3.5	30.0
1,3-Dichloropropane	Ave	0.5985	0.6199		20.7	20.0	3.6	30.0
Ethylene Dibromide	Ave	0.3272	0.3630	0.1000	22.2	20.0	10.9	30.0
n-Butyl acetate	QuaF		0.6131		18.4	20.0	-8.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-501512/14 Calibration Date: 03/06/2018 03:52

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42064.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	1.932	2.115	0.0500	109	100	9.5	30.0
Chlorobenzene	Ave	1.074	1.124	0.5000	20.9	20.0	4.6	30.0
Ethylbenzene	Ave	0.5813	0.6134	0.1000	21.1	20.0	5.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3324	0.3519		21.2	20.0	5.9	30.0
m-Xylene & p-Xylene	Ave	0.7146	0.7643	0.1000	21.4	20.0	7.0	30.0
o-Xylene	Ave	0.6806	0.7317	0.3000	21.5	20.0	7.5	30.0
Bromoform	Ave	0.2058	0.2112	0.1000	20.5	20.0	2.6	30.0
Styrene	Ave	1.082	1.157	0.3000	21.4	20.0	7.0	30.0
n-Butyl acrylate	QuaF		0.2882		18.2	20.0	-9.1	30.0
Isopropylbenzene	Ave	1.785	1.924	0.1000	21.6	20.0	7.8	30.0
Amyl acetate (mixed isomers)	QuaF		1.173		18.5	20.0	-7.3	30.0
Bromobenzene	Ave	0.7749	0.7959		20.5	20.0	2.7	30.0
N-Propylbenzene	Ave	3.582	3.893		21.7	20.0	8.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7618	0.7941	0.3000	20.8	20.0	4.2	30.0
2-Chlorotoluene	Ave	2.475	2.608		21.1	20.0	5.4	30.0
4-Ethyltoluene	Ave	3.047	3.288		21.6	20.0	7.9	30.0
1,2,3-Trichloropropane	Ave	0.2172	0.2352		21.7	20.0	8.3	30.0
1,3,5-Trimethylbenzene	Ave	2.481	2.691		21.7	20.0	8.5	30.0
trans-1,4-Dichloro-2-butene	Qua2		0.2154		22.2	20.0	11.1	30.0
4-Chlorotoluene	Ave	2.245	2.390		21.3	20.0	6.5	30.0
tert-Butylbenzene	Ave	2.134	2.281		21.4	20.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	2.590	2.762		21.3	20.0	6.6	30.0
Butyl Methacrylate	Qua2		0.8637		21.3	20.0	6.5	30.0
sec-Butylbenzene	Ave	3.203	3.461		21.6	20.0	8.1	30.0
1,3-Dichlorobenzene	Ave	1.436	1.501	0.6000	20.9	20.0	4.5	30.0
4-Isopropyltoluene	Ave	2.714	2.930		21.6	20.0	8.0	30.0
1,4-Dichlorobenzene	Ave	1.544	1.557	0.5000	20.2	20.0	0.8	30.0
1,2,3-Trimethylbenzene	Ave	2.664	2.838		21.3	20.0	6.6	30.0
Indan	Ave	2.668	2.762		20.7	20.0	3.6	30.0
Benzyl chloride	QuaF		0.2189		15.6	20.0	-21.8	30.0
p-Diethylbenzene	Ave	1.434	1.637		22.8	20.0	14.2	30.0
n-Butylbenzene	Ave	2.453	2.664		21.7	20.0	8.6	30.0
1,2-Dichlorobenzene	Ave	1.374	1.441	0.4000	21.0	20.0	4.9	30.0
1,2,4,5-Tetramethylbenzene	Ave	2.421	2.692		22.2	20.0	11.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1318	0.1485	0.0500	22.5	20.0	12.7	30.0
1,3,5-Trichlorobenzene	Ave	0.998	1.059		21.2	20.0	6.0	30.0
1,2,4-Trichlorobenzene	Ave	0.9277	0.9692	0.2000	20.9	20.0	4.5	30.0
Hexachlorobutadiene	Ave	0.3390	0.3666		21.6	20.0	8.1	30.0
Naphthalene	Ave	2.178	2.289		21.0	20.0	5.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.8626		21.4	20.0	6.8	30.0
Dibromofluoromethane (Surr)	Ave	0.4071	0.4023		49.4	50.0	-1.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-501512/14 Calibration Date: 03/06/2018 03:52

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42064.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.4611	0.4533		49.2	50.0	-1.7	30.0
Toluene-d8 (Surr)	Ave	1.436	1.445		50.3	50.0	0.7	30.0
4-Bromofluorobenzene	Ave	0.4191	0.4236		50.5	50.0	1.1	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42064.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Mar-2018 03:52:30 ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0068378-014
Operator ID: Instrument ID: CVOAMS13
Sublist:

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Mar-2018 19:25:08 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: boykink Date: 06-Mar-2018 03:24:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.863	-0.007	95	24761	20.0	18.5	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	88642	20.0	20.3	
4 Chloromethane	50	0.985	0.985	0.000	99	64393	20.0	16.5	
5 Vinyl chloride	62	1.007	1.007	0.000	98	94863	20.0	19.2	
3 Butadiene	54	1.014	1.014	0.000	97	87244	20.0	19.7	
6 Bromomethane	94	1.172	1.171	0.001	99	29902	20.0	20.2	
7 Chloroethane	64	1.236	1.236	0.000	99	60722	20.0	19.4	
9 Pentane	72	1.300	1.300	0.000	97	29179	40.0	45.1	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	59	104639	20.0	21.9	
10 Dichlorofluoromethane	67	1.336	1.336	0.000	99	135731	20.0	20.9	
11 2-Methyl-1,3-butadiene	67	1.458	1.458	0.000	96	112574	20.0	22.4	
12 Ethyl ether	59	1.465	1.465	0.000	94	66451	20.0	19.4	
13 Ethanol	46	1.544	1.544	0.000	99	18431	800.0	850.1	M
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.565	0.000	85	90710	20.0	20.7	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	99	65241	20.0	18.6	
16 Carbon disulfide	76	1.580	1.587	-0.007	99	238677	20.0	18.5	
17 1,1,2-Trichloro-1,2,2-trif	101	1.594	1.594	0.000	96	66473	20.0	20.4	
18 Iodomethane	142	1.644	1.644	0.000	97	47289	20.0	12.6	
19 Cyclopentene	67	1.730	1.730	0.000	97	196423	20.0	21.1	
20 Acrolein	56	1.745	1.752	-0.007	95	33760	40.1	55.3	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	43302	20.0	19.7	
22 Isopropyl alcohol	45	1.852	1.852	0.000	97	50470	200.0	194.4	
23 Methylene Chloride	84	1.888	1.888	0.000	95	79622	20.0	18.0	
24 Acetone	43	1.916	1.916	0.000	87	116005	100.0	106.4	
25 trans-1,2-Dichloroethene	96	1.981	1.981	0.000	96	78501	20.0	20.3	
26 Methyl acetate	43	1.988	1.988	0.000	100	297547	100.0	98.0	
27 Hexane	86	2.031	2.024	0.007	95	20527	20.0	21.7	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	94	225682	20.0	20.6	
* 29 TBA-d9 (IS)	65	2.067	2.067	0.000	0	339999	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	99	77982	200.0	193.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	100	106175	200.0	192.4	
32 Isopropyl ether	45	2.282	2.282	0.000	98	283006	20.0	20.7	
33 2-Chloro-1,3-butadiene	88	2.339	2.339	0.000	90	70303	20.0	20.5	
34 1,1-Dichloroethane	63	2.346	2.353	-0.007	99	139494	20.0	20.5	
35 Acrylonitrile	53	2.382	2.382	0.000	95	310955	200.0	202.4	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	89	249779	20.0	20.6	
37 Vinyl acetate	43	2.525	2.525	0.000	100	350664	40.0	42.1	
38 cis-1,2-Dichloroethene	96	2.712	2.711	0.001	97	82331	20.0	19.9	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	97	109254	20.0	22.2	
41 Chlorobromomethane	128	2.848	2.848	0.000	81	39137	20.0	20.3	
40 Cyclohexane	56	2.841	2.848	-0.008	92	140067	20.0	21.3	
42 Chloroform	83	2.905	2.905	0.000	99	127943	20.0	20.7	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	85546	20.0	21.3	
44 Ethyl acetate	70	3.005	3.005	0.000	99	18300	40.0	38.3	
45 Methyl acrylate	55	3.012	3.012	0.000	99	71848	20.0	20.5	
46 Tetrahydrofuran	42	3.020	3.019	0.001	96	63060	40.0	38.9	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	163376	50.0	49.4	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	97	105227	20.0	20.9	
* 49 2-Butanone-d5	46	3.106	3.105	0.001	0	339671	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	100	50053	100.0	98.6	
51 1,1-Dichloropropene	75	3.141	3.148	-0.007	98	109060	20.0	19.6	
52 Isooctane	57	3.234	3.234	0.000	99	252587	20.0	21.8	
53 n-Heptane	57	3.328	3.327	0.001	93	66392	20.0	21.6	
54 Benzene	78	3.335	3.335	0.000	96	323630	20.0	20.8	
55 Propionitrile	54	3.356	3.356	0.000	95	113358	200.0	206.9	
56 Methacrylonitrile	67	3.378	3.378	0.000	92	341420	200.0	208.1	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	184086	50.0	49.2	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	231209	20.0	20.4	
59 1,2-Dichloroethane	62	3.500	3.499	0.001	97	94586	20.0	19.1	
60 Isobutyl alcohol	43	3.571	3.571	0.000	95	78819	500.0	472.3	
61 t-Amyl alcohol	59	3.643	3.643	0.000	98	57360	200.0	202.6	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	406131	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	149554	20.0	20.4	
64 Methylcyclohexane	83	3.815	3.815	0.000	96	138180	20.0	21.6	
65 Trichloroethene	130	3.836	3.836	0.000	99	80078	20.0	20.2	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	93	190606	20.0	20.7	
67 Dibromomethane	93	4.209	4.209	0.000	97	46257	20.0	20.2	
68 n-Butanol	56	4.209	4.209	0.000	88	47305	500.0	513.0	
69 1,2-Dichloropropane	63	4.302	4.302	0.000	92	85026	20.0	20.7	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	101527	20.0	21.3	
71 Dichlorobromomethane	83	4.381	4.380	0.001	99	95912	20.0	21.5	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	34827	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	92	43994	40.0	42.0	
74 1,4-Dioxane	88	4.595	4.588	0.007	94	16701	400.0	377.9	
75 n-Propyl acetate	43	4.732	4.731	0.001	99	114782	20.0	21.1	
76 2-Chloroethyl vinyl ether	63	4.997	4.996	0.001	97	46773	20.0	20.9	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	93	131091	20.0	21.9	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	712872	50.0	50.3	
79 Toluene	91	5.283	5.283	0.000	93	353002	20.0	20.9	
80 Epichlorohydrin	57	5.319	5.312	0.007	47	7554	20.0	21.3	a
81 2-Nitropropane	41	5.541	5.541	0.000	97	31166	40.0	39.3	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	81583	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	97	400058	100.0	106.8	
84 trans-1,3-Dichloropropene	75	5.785	5.784	0.000	99	109728	20.0	21.4	
85 1,1,2-Trichloroethane	83	5.964	5.963	0.001	96	59059	20.0	21.2	
86 Ethyl methacrylate	69	6.042	6.042	0.000	91	101698	20.0	21.5	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	69260	20.0	20.7	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	94	122309	20.0	20.7	
89 Ethylene Dibromide	107	6.415	6.415	0.000	98	71623	20.0	22.2	
90 n-Butyl acetate	43	6.752	6.751	0.001	99	120951	20.0	18.4	
91 2-Hexanone	43	6.816	6.816	0.000	98	287418	100.0	109.5	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	87	493226	50.0	50.0	
93 Chlorobenzene	112	7.131	7.124	0.007	95	221678	20.0	20.9	
94 Ethylbenzene	106	7.210	7.210	0.000	98	121026	20.0	21.1	
95 1,1,1,2-Tetrachloroethane	131	7.239	7.238	0.001	95	69427	20.0	21.2	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	150793	20.0	21.4	
97 o-Xylene	106	8.019	8.019	0.000	94	144350	20.0	21.5	
98 Bromoform	173	8.084	8.084	0.000	95	41674	20.0	20.5	
99 Styrene	104	8.105	8.105	0.000	96	228252	20.0	21.4	
100 n-Butyl acrylate	73	8.428	8.428	0.000	97	56852	20.0	18.2	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	379565	20.0	21.6	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	90	137582	20.0	18.5	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	90	208915	50.0	50.5	
104 Bromobenzene	156	8.986	8.993	-0.007	99	93332	20.0	20.5	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	456477	20.0	21.7	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	98	93122	20.0	20.8	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	305774	20.0	21.1	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	385550	20.0	21.6	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	27581	20.0	21.7	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	315566	20.0	21.7	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	89	25254	20.0	22.2	
112 4-Chlorotoluene	91	9.581	9.588	-0.007	98	280310	20.0	21.3	
113 tert-Butylbenzene	119	9.953	9.960	-0.007	95	267464	20.0	21.4	
114 Butyl Methacrylate	87	10.089	10.082	0.007	53	101277	20.0	21.3	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	323835	20.0	21.3	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	405869	20.0	21.6	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	96	175992	20.0	20.9	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	343607	20.0	21.6	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	95	293162	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	95	182540	20.0	20.2	
138 1,2,3-Trimethylbenzene	105	10.770	10.777	-0.007	98	332851	20.0	21.3	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	94	323918	20.0	20.7	
122 Benzyl chloride	126	11.128	11.128	0.000	97	25668	20.0	15.6	
123 p-Diethylbenzene	119	11.135	11.142	-0.007	94	191998	20.0	22.8	
124 n-Butylbenzene	91	11.221	11.221	0.000	99	312399	20.0	21.7	
125 1,2-Dichlorobenzene	146	11.322	11.321	0.001	97	168978	20.0	21.0	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	97	315658	20.0	22.2	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	94	17416	20.0	22.5	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	97	124148	20.0	21.2	
129 1,2,4-Trichlorobenzene	180	13.076	13.084	-0.008	94	113651	20.0	20.9	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	93	42990	20.0	21.6	
131 Naphthalene	128	13.377	13.377	0.000	100	268473	20.0	21.0	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	96	101148	20.0	21.4	
S 133 1,2-Dichloroethene, Total	100				0		40.0	40.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		40.0	43.3	
S 135 Xylenes, Total	100				0		40.0	42.9	
S 137 Total BTEX	1				0		100.0	105.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS C SP_00240	Amount Added: 20.00	Units: uL		
8260 SP_00079	Amount Added: 20.00	Units: uL		
ACROLEIN SP_00082	Amount Added: 4.00	Units: uL		
8260ISNEW_00121	Amount Added: 1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added: 1.00	Units: uL	Run Reagent	

Report Date: 09-Mar-2018 19:26:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42064.D

Injection Date: 06-Mar-2018 03:52:30 Instrument ID: CVOAMS13 Operator ID:

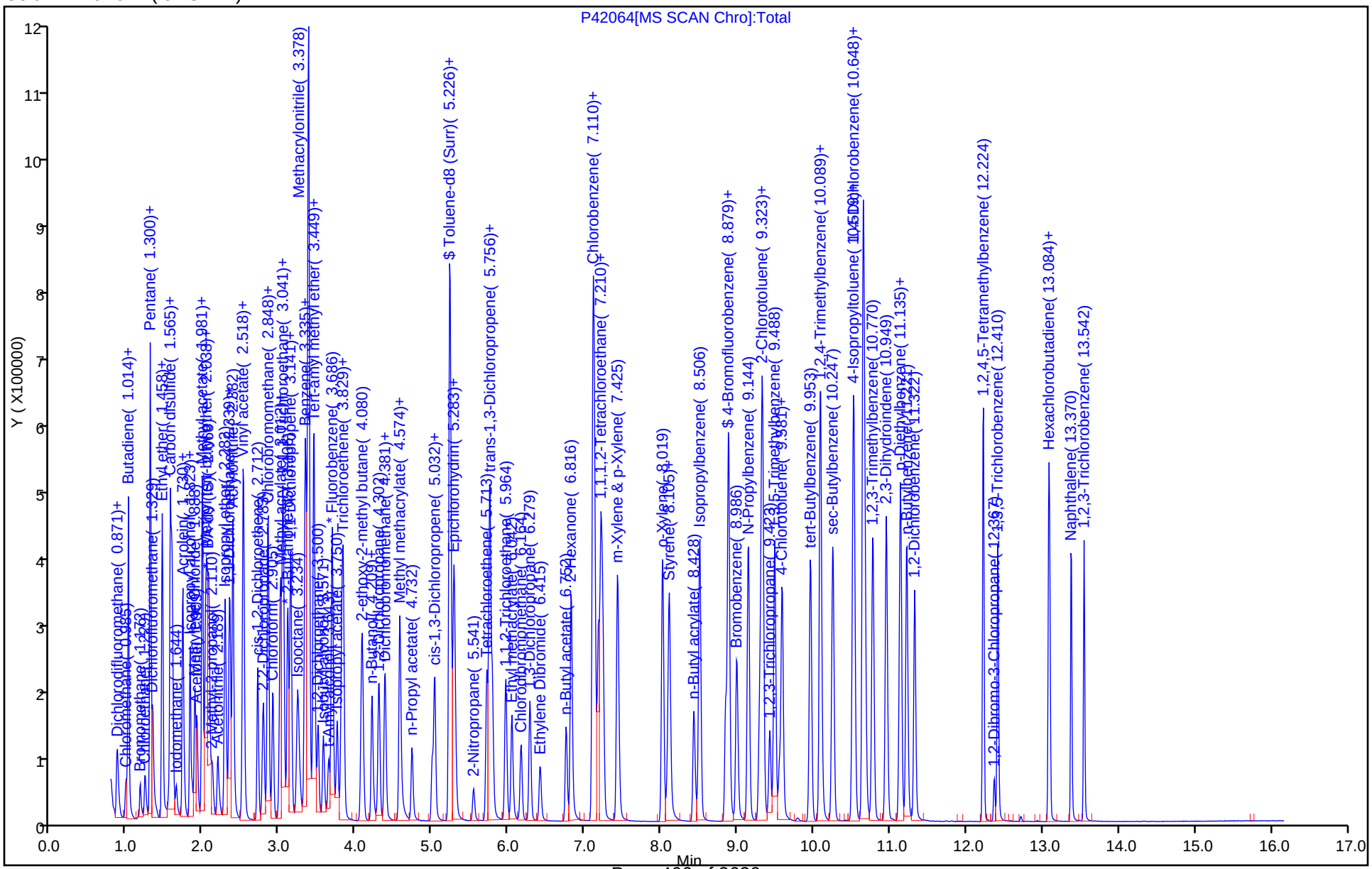
Lims ID: ICV Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

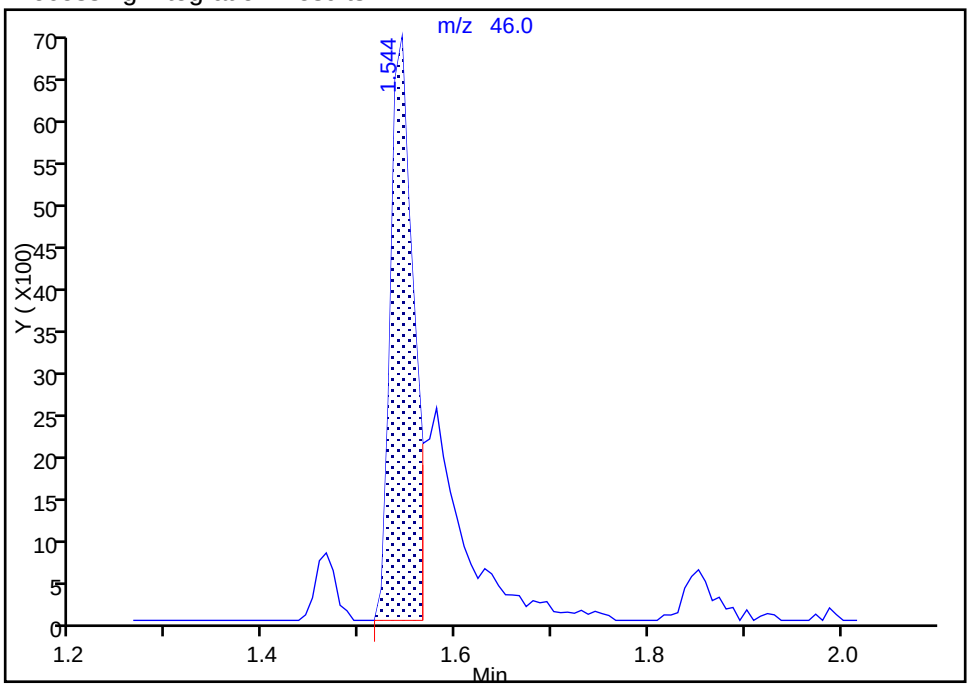
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42064.D
Injection Date: 06-Mar-2018 03:52:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Signal: 1

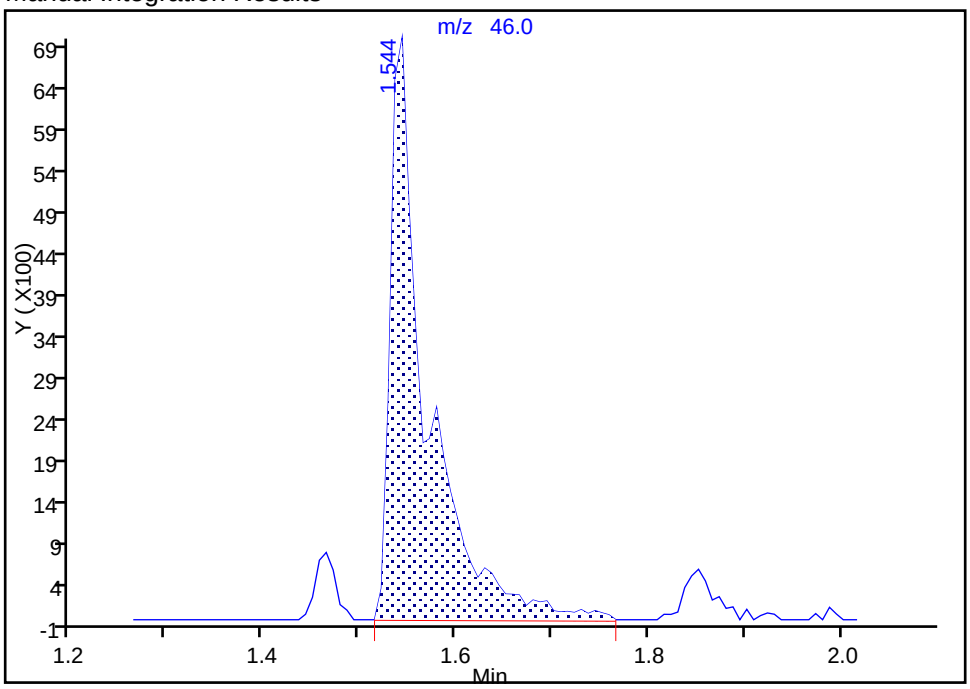
Processing Integration Results

RT: 1.54
Area: 11535
Amount: 532.0278
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 18431
Amount: 850.0914
Amount Units: ug/l



Reviewer: baronm, 09-Mar-2018 19:23:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

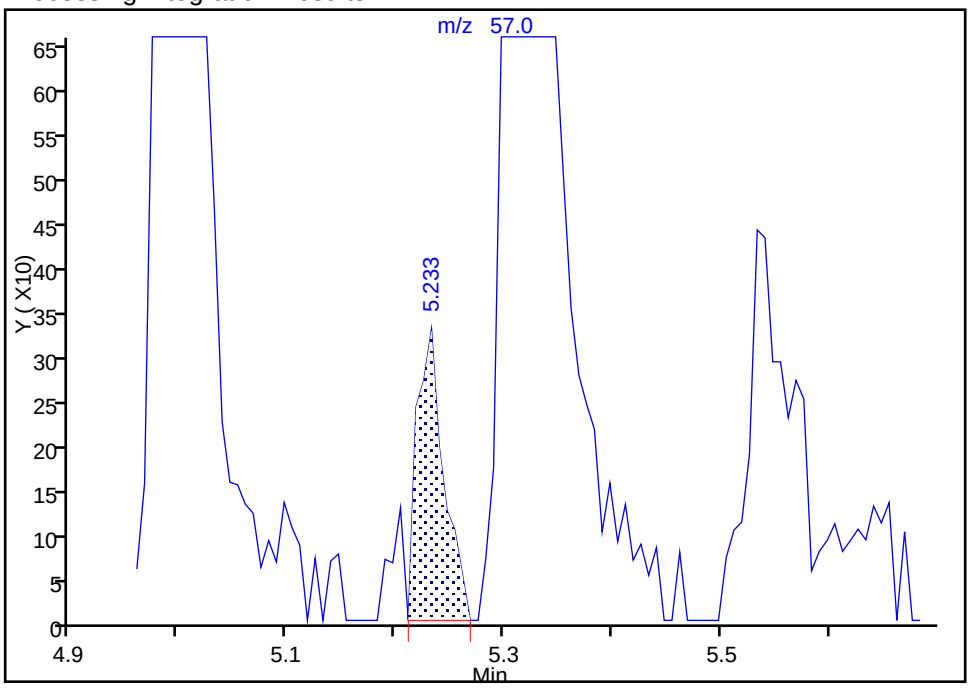
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42064.D
Injection Date: 06-Mar-2018 03:52:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

80 Epichlorohydrin, CAS: 106-89-8

Signal: 1

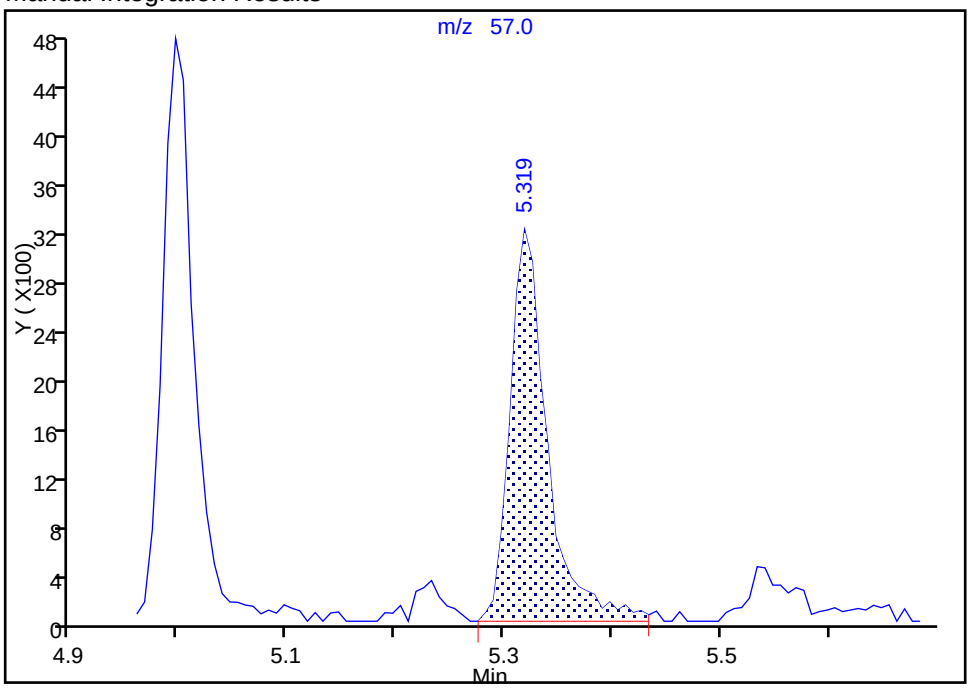
Processing Integration Results

RT: 5.23
Area: 565
Amount: 1.591777
Amount Units: ug/l



Manual Integration Results

RT: 5.32
Area: 7554
Amount: 21.281916
Amount Units: ug/l



Reviewer: baronm, 09-Mar-2018 19:22:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504963/2 Calibration Date: 03/21/2018 08:50

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42878.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1650	0.1834		22.2	20.0	11.1	20.0
Dichlorodifluoromethane	Ave	0.5366	0.5749	0.1000	21.4	20.0	7.1	20.0
Chloromethane	Ave	0.4805	0.5245	0.1000	21.8	20.0	9.2	20.0
Vinyl chloride	Ave	0.6098	0.7211	0.1000	23.6	20.0	18.2	20.0
Butadiene	Ave	0.5453	0.6064		22.2	20.0	11.2	20.0
Bromomethane	Ave	1.091	1.924	0.1000	35.3	20.0	76.4*	50.0
Chloroethane	Ave	0.3858	0.3589	0.1000	18.6	20.0	-7.0	50.0
Pentane	Ave	1.902	1.928		40.6	40.0	1.4	20.0
Trichlorofluoromethane	Ave	0.5884	0.7328	0.1000	24.9	20.0	24.5*	20.0
Dichlorofluoromethane	Ave	0.8010	0.9809		24.5	20.0	22.5*	20.0
2-Methyl-1,3-butadiene	Ave	0.6185	0.6468		20.9	20.0	4.6	20.0
Ethyl ether	Ave	0.4224	0.4487		21.2	20.0	6.2	20.0
Ethanol	Ave	0.0638	0.0629		789	800	-1.4	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5400	0.5784		21.4	20.0	7.1	20.0
1,1-Dichloroethene	Ave	0.4323	0.4679	0.1000	21.6	20.0	8.2	20.0
Carbon disulfide	Ave	1.588	1.560	0.1000	19.7	20.0	-1.7	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4008	0.4236	0.1000	21.1	20.0	5.7	20.0
Iodomethane	QuaF		0.4003		17.3	20.0	-13.4	20.0
Cyclopentene	Ave	1.145	1.181		20.6	20.0	3.1	20.0
Acrolein	Ave	1.796	0.8014		17.8	40.0	-55.4*	50.0
Allyl chloride	Ave	0.2711	0.3047		22.5	20.0	12.4	20.0
Isopropyl alcohol	Ave	0.7635	0.7015		184	200	-8.1	50.0
Methylene Chloride	Ave	0.5435	0.5757	0.1000	21.2	20.0	5.9	20.0
Acetone	Qua2		0.7920	0.0500	98.6	100	-1.4	50.0
trans-1,2-Dichloroethene	Ave	0.4757	0.5369	0.1000	22.6	20.0	12.9	20.0
Methyl acetate	Ave	0.3737	0.3476	0.1000	93.0	100	-7.0	20.0
Hexane	Ave	0.1163	0.1186		20.4	20.0	2.0	20.0
Methyl tert-butyl ether	Ave	1.346	1.450	0.1000	21.5	20.0	7.7	20.0
2-Methyl-2-propanol	Ave	1.184	1.118		189	200	-5.6	50.0
Acetonitrile	Ave	1.623	1.512		186	200	-6.9	20.0
Isopropyl ether	Ave	1.686	1.718		20.4	20.0	1.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4218	0.4642		22.0	20.0	10.0	20.0
1,1-Dichloroethane	Ave	0.8373	0.9212	0.2000	22.0	20.0	10.0	20.0
Acrylonitrile	Ave	0.1891	0.1857		196	200	-1.8	20.0
Tert-butyl ethyl ether	Ave	1.492	1.565		21.0	20.0	4.9	20.0
Vinyl acetate	Ave	1.026	1.006		39.2	40.0	-1.9	20.0
cis-1,2-Dichloroethene	Ave	0.5098	0.5786	0.1000	22.7	20.0	13.5	20.0
2,2-Dichloropropane	Ave	0.6049	0.6417		21.2	20.0	6.1	20.0
Cyclohexane	Ave	0.8085	0.7892	0.1000	19.5	20.0	-2.4	50.0
Chlorobromomethane	Ave	0.2371	0.2806		23.7	20.0	18.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504963/2 Calibration Date: 03/21/2018 08:50

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42878.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.7600	0.8609	0.2000	22.7	20.0	13.3	20.0
Carbon tetrachloride	Ave	0.4934	0.5083	0.1000	20.6	20.0	3.0	20.0
Ethyl acetate	Ave	0.3519	0.3620		41.1	40.0	2.9	20.0
Tetrahydrofuran	Ave	1.192	1.261		42.3	40.0	5.8	20.0
1,1,1-Trichloroethane	Ave	0.6194	0.6779	0.1000	21.9	20.0	9.5	20.0
1,1-Dichloropropene	Ave	0.6862	0.7012		20.4	20.0	2.2	20.0
2-Butanone (MEK)	Ave	0.3737	0.4120	0.0500	110	100	10.2	50.0
n-Heptane	Ave	0.3783	0.3476		18.4	20.0	-8.1	20.0
Benzene	Ave	1.575	1.511	0.5000	19.2	20.0	-4.1	20.0
Propionitrile	Ave	1.611	1.651		205	200	2.5	20.0
Methacrylonitrile	Ave	0.2019	0.2158		214	200	6.9	20.0
Tert-amyl methyl ether	Ave	1.397	1.481		21.2	20.0	6.0	20.0
1,2-Dichloroethane	Ave	0.6103	0.6381	0.1000	20.9	20.0	4.6	20.0
Isobutyl alcohol	Ave	0.4909	0.4181		426	500	-14.8	50.0
Isopropyl acetate	Ave	0.9027	0.8645		19.2	20.0	-4.2	20.0
Methylcyclohexane	Ave	0.7859	0.8044	0.1000	20.5	20.0	2.4	50.0
Trichloroethene	Ave	0.4877	0.5735	0.2000	23.5	20.0	17.6	20.0
Dibromomethane	Ave	0.2813	0.3233		23.0	20.0	14.9	20.0
n-Butanol	Qua2		0.2612		482	500	-3.6	50.0
1,2-Dichloropropane	Ave	0.5057	0.5601	0.1000	22.1	20.0	10.7	20.0
Ethyl acrylate	Ave	0.5860	0.6122		20.9	20.0	4.5	20.0
Dichlorobromomethane	Ave	0.5496	0.6141	0.2000	22.3	20.0	11.7	20.0
Methyl methacrylate	Ave	0.1288	0.1444		44.8	40.0	12.1	20.0
1,4-Dioxane	Ave	1.269	1.257		396	400	-0.9	50.0
n-Propyl acetate	Ave	0.6682	0.6251		18.7	20.0	-6.5	20.0
2-Chloroethyl vinyl ether	Qua2		0.3264		23.6	20.0	18.2	20.0
cis-1,3-Dichloropropene	Ave	0.6080	0.5847	0.2000	19.2	20.0	-3.8	50.0
Toluene	Ave	1.716	1.697	0.4000	19.8	20.0	-1.1	20.0
Epichlorohydrin	Ave	0.2612	0.3170		485	400	21.3*	20.0
2-Nitropropane	Ave	0.0975	0.0893		36.6	40.0	-8.4	20.0
Tetrachloroethene	Ave	0.4034	0.3877	0.2000	19.2	20.0	-3.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.757	3.012	0.0500	109	100	9.2	50.0
trans-1,3-Dichloropropene	Ave	0.5188	0.5081	0.1000	19.6	20.0	-2.1	50.0
1,1,2-Trichloroethane	Ave	0.2823	0.2868	0.1000	20.3	20.0	1.6	20.0
Ethyl methacrylate	Ave	0.5812	0.6296		21.7	20.0	8.3	20.0
Chlorodibromomethane	Ave	0.3392	0.3231	0.1000	19.1	20.0	-4.7	50.0
1,3-Dichloropropane	Ave	0.5985	0.5862		19.6	20.0	-2.0	20.0
Ethylene Dibromide	Ave	0.3272	0.3364	0.1000	20.6	20.0	2.8	20.0
n-Butyl acetate	QuaF		0.4471		13.4	20.0	-33.1*	20.0
2-Hexanone	Ave	1.932	2.087	0.0500	108	100	8.0	50.0
Chlorobenzene	Ave	1.074	1.112	0.5000	20.7	20.0	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504963/2 Calibration Date: 03/21/2018 08:50

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42878.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylbenzene	Ave	0.5813	0.6047	0.1000	20.8	20.0	4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3324	0.3287		19.8	20.0	-1.1	20.0
m-Xylene & p-Xylene	Ave	0.7146	0.7316	0.1000	20.5	20.0	2.4	20.0
o-Xylene	Ave	0.6806	0.7005	0.3000	20.6	20.0	2.9	20.0
Bromoform	Ave	0.2058	0.1858	0.1000	18.1	20.0	-9.7	20.0
Styrene	Ave	1.082	1.084	0.3000	20.0	20.0	0.2	20.0
n-Butyl acrylate	QuaF		0.2240		14.1	20.0	-29.3*	20.0
Isopropylbenzene	Ave	1.785	1.840	0.1000	20.6	20.0	3.1	20.0
Amyl acetate (mixed isomers)	QuaF		0.7604		12.0	20.0	-39.9*	20.0
Bromobenzene	Ave	0.7749	0.7319		18.9	20.0	-5.5	20.0
N-Propylbenzene	Ave	3.582	3.378		18.9	20.0	-5.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7618	0.6872	0.3000	18.0	20.0	-9.8	20.0
2-Chlorotoluene	Ave	2.475	2.307		18.6	20.0	-6.8	20.0
4-Ethyltoluene	Ave	3.047	2.931		19.2	20.0	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.2172	0.1911		17.6	20.0	-12.0	20.0
1,3,5-Trimethylbenzene	Ave	2.481	2.388		19.3	20.0	-3.7	20.0
trans-1,4-Dichloro-2-butene	Qua2		0.1522		15.8	20.0	-20.9*	20.0
4-Chlorotoluene	Ave	2.245	2.096		18.7	20.0	-6.6	20.0
tert-Butylbenzene	Ave	2.134	2.019		18.9	20.0	-5.4	20.0
1,2,4-Trimethylbenzene	Ave	2.590	2.469		19.1	20.0	-4.7	20.0
Butyl Methacrylate	Qua2		0.6143		15.3	20.0	-23.6*	20.0
sec-Butylbenzene	Ave	3.203	3.059		19.1	20.0	-4.5	20.0
1,3-Dichlorobenzene	Ave	1.436	1.404	0.6000	19.6	20.0	-2.2	20.0
4-Isopropyltoluene	Ave	2.714	2.592		19.1	20.0	-4.5	20.0
1,4-Dichlorobenzene	Ave	1.544	1.441	0.5000	18.7	20.0	-6.6	20.0
Indan	Ave	2.668	2.650		19.9	20.0	-0.7	20.0
Benzyl chloride	QuaF		0.1592		11.4	20.0	-43.1	50.0
p-Diethylbenzene	Ave	1.434	1.392		19.4	20.0	-2.9	20.0
n-Butylbenzene	Ave	2.453	2.263		18.4	20.0	-7.8	20.0
1,2-Dichlorobenzene	Ave	1.374	1.367	0.4000	19.9	20.0	-0.5	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.421	2.395		19.8	20.0	-1.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1318	0.1161	0.0500	17.6	20.0	-12.0	50.0
1,3,5-Trichlorobenzene	Ave	0.998	0.9922		19.9	20.0	-0.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9277	0.8687	0.2000	18.7	20.0	-6.4	20.0
Hexachlorobutadiene	Ave	0.3390	0.3195		18.9	20.0	-5.7	20.0
Naphthalene	Ave	2.178	1.923		17.7	20.0	-11.7	50.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7558		18.7	20.0	-6.4	20.0
Dibromofluoromethane (Surr)	Ave	0.4071	0.4393		54.0	50.0	7.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4611	0.4670		50.6	50.0	1.3	20.0
Toluene-d8 (Surr)	Ave	1.436	1.361		47.4	50.0	-5.2	20.0
4-Bromofluorobenzene	Ave	0.4191	0.4192		50.0	50.0	0.0	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42878.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 08:50:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0069071-002
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Mar-2018 10:30:15 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: desais Date: 21-Mar-2018 09:20:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	87	20295	20.0	22.2	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	63627	20.0	21.4	
4 Chloromethane	50	0.985	0.985	0.000	98	58050	20.0	21.8	
5 Vinyl chloride	62	1.007	1.007	0.000	98	79801	20.0	23.6	
3 Butadiene	54	1.014	1.014	0.000	96	67107	20.0	22.2	
6 Bromomethane	94	1.171	1.171	0.000	99	31548	20.0	35.3	
7 Chloroethane	64	1.229	1.229	0.000	99	39715	20.0	18.6	
9 Pentane	72	1.293	1.293	0.000	97	17694	40.0	40.6	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	97	81102	20.0	24.9	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	108556	20.0	24.5	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	71587	20.0	20.9	
12 Ethyl ether	59	1.465	1.465	0.000	95	49656	20.0	21.2	
13 Ethanol	46	1.551	1.551	0.000	98	11543	800.0	789.1	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	86	64015	20.0	21.4	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	97	51782	20.0	21.6	
16 Carbon disulfide	76	1.580	1.580	0.000	99	172651	20.0	19.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	95	46883	20.0	21.1	
18 Iodomethane	142	1.637	1.637	0.000	96	44306	20.0	17.3	
19 Cyclopentene	67	1.723	1.723	0.000	95	130713	20.0	20.6	
20 Acrolein	56	1.744	1.744	0.000	93	7353	40.0	17.8	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	95	33717	20.0	22.5	
22 Isopropyl alcohol	45	1.859	1.859	0.000	98	32184	200.0	183.8	
23 Methylene Chloride	84	1.888	1.888	0.000	90	63709	20.0	21.2	
24 Acetone	43	1.916	1.916	0.000	88	64923	100.0	98.6	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	94	59422	20.0	22.6	
26 Methyl acetate	43	1.988	1.988	0.000	99	192359	100.0	93.0	
27 Hexane	86	2.024	2.024	0.000	90	13130	20.0	20.4	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	96	160435	20.0	21.5	
* 29 TBA-d9 (IS)	65	2.074	2.074	0.000	0	229389	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	99	51310	200.0	188.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	99	69364	200.0	186.3	
32 Isopropyl ether	45	2.282	2.282	0.000	97	190105	20.0	20.4	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	89	51371	20.0	22.0	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	100	101948	20.0	22.0	
35 Acrylonitrile	53	2.382	2.382	0.000	96	205557	200.0	196.4	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	89	173158	20.0	21.0	
37 Vinyl acetate	43	2.518	2.518	0.000	100	222753	40.0	39.2	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	98	64033	20.0	22.7	
39 2,2-Dichloropropane	77	2.776	2.776	0.000	98	71016	20.0	21.2	
40 Cyclohexane	56	2.840	2.840	0.000	89	87343	20.0	19.5	
41 Chlorobromomethane	128	2.848	2.848	0.000	89	31051	20.0	23.7	
42 Chloroform	83	2.905	2.905	0.000	99	95281	20.0	22.7	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	56249	20.0	20.6	
44 Ethyl acetate	70	3.005	3.005	0.000	99	11870	40.0	41.1	
45 Methyl acrylate	55	3.012	3.012	0.000	59	47610	20.0	19.9	
46 Tetrahydrofuran	42	3.019	3.019	0.000	94	41360	40.0	42.3	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	98	121545	50.0	54.0	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	97	75026	20.0	21.9	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	204934	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	98	33775	100.0	110.2	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	97	77599	20.0	20.4	
52 Isooctane	57	3.234	3.234	0.000	99	152861	20.0	19.3	
53 n-Heptane	57	3.327	3.327	0.000	91	38473	20.0	18.4	
54 Benzene	78	3.335	3.335	0.000	94	243274	20.0	19.2	
55 Propionitrile	54	3.356	3.356	0.000	98	75756	200.0	205.0	
56 Methacrylonitrile	67	3.378	3.378	0.000	91	238825	200.0	213.7	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	129201	50.0	50.6	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	163884	20.0	21.2	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	70623	20.0	20.9	
60 Isobutyl alcohol	43	3.571	3.571	0.000	97	47950	500.0	425.8	
61 t-Amyl alcohol	59	3.643	3.643	0.000	96	34372	200.0	179.9	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	276680	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	95672	20.0	19.2	
64 Methylcyclohexane	83	3.815	3.815	0.000	96	89029	20.0	20.5	
65 Trichloroethene	130	3.829	3.829	0.000	97	63474	20.0	23.5	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	94	133526	20.0	21.3	
67 Dibromomethane	93	4.201	4.201	0.000	97	35777	20.0	23.0	
68 n-Butanol	56	4.216	4.216	0.000	90	29953	500.0	482.1	
69 1,2-Dichloropropane	63	4.294	4.294	0.000	92	61984	20.0	22.1	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	67755	20.0	20.9	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	67958	20.0	22.3	
* 72 1,4-Dioxane-d8	96	4.574	4.574	0.000	0	26321	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	91	31967	40.0	44.8	
74 1,4-Dioxane	88	4.588	4.588	0.000	92	13235	400.0	396.3	
75 n-Propyl acetate	43	4.731	4.731	0.000	98	69179	20.0	18.7	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	96	36119	20.0	23.6	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	91	94157	20.0	19.2	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	548034	50.0	47.4	
79 Toluene	91	5.283	5.283	0.000	92	273258	20.0	19.8	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	103949	400.0	485.4	
81 2-Nitropropane	41	5.541	5.541	0.000	98	19775	40.0	36.6	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	62432	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	95	246938	100.0	109.2	
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	95	81821	20.0	19.6	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	46190	20.0	20.3	
86 Ethyl methacrylate	69	6.042	6.042	0.000	90	69676	20.0	21.7	
87 Chlorodibromomethane	129	6.164	6.164	0.000	99	52034	20.0	19.1	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	92	94404	20.0	19.6	
89 Ethylene Dibromide	107	6.408	6.408	0.000	98	54163	20.0	20.6	
90 n-Butyl acetate	43	6.751	6.751	0.000	98	71999	20.0	13.4	
91 2-Hexanone	43	6.816	6.816	0.000	97	171116	100.0	108.0	
* 92 Chlorobenzene-d5	117	7.102	7.102	0.000	85	402580	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	179076	20.0	20.7	
94 Ethylbenzene	106	7.210	7.210	0.000	98	97374	20.0	20.8	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	96	52932	20.0	19.8	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	117815	20.0	20.5	
97 o-Xylene	106	8.019	8.019	0.000	95	112797	20.0	20.6	
98 Bromoform	173	8.084	8.084	0.000	96	29922	20.0	18.1	
99 Styrene	104	8.105	8.105	0.000	97	174599	20.0	20.0	
100 n-Butyl acrylate	73	8.428	8.428	0.000	99	36072	20.0	14.1	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	296358	20.0	20.6	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	77370	20.0	12.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	92	168774	50.0	50.0	
104 Bromobenzene	156	8.993	8.993	0.000	97	74469	20.0	18.9	
105 N-Propylbenzene	91	9.144	9.144	0.000	100	343735	20.0	18.9	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	69919	20.0	18.0	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	234741	20.0	18.6	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	298198	20.0	19.2	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	19443	20.0	17.6	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	242988	20.0	19.3	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	90	15483	20.0	15.8	
112 4-Chlorotoluene	91	9.588	9.588	0.000	97	213284	20.0	18.7	
113 tert-Butylbenzene	119	9.953	9.953	0.000	95	205404	20.0	18.9	
114 Butyl Methacrylate	87	10.089	10.089	0.000	91	62500	20.0	15.3	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	251207	20.0	19.1	
116 sec-Butylbenzene	105	10.247	10.247	0.000	100	311222	20.0	19.1	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	97	142802	20.0	19.6	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	263690	20.0	19.1	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	254363	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	146647	20.0	18.7	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	260434	20.0	19.2	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	269601	20.0	19.9	
122 Benzyl chloride	126	11.121	11.121	0.000	97	16198	20.0	11.4	
123 p-Diethylbenzene	119	11.142	11.142	0.000	94	141679	20.0	19.4	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	230265	20.0	18.4	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	97	139069	20.0	19.9	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	243713	20.0	19.8	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	94	11808	20.0	17.6	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	100952	20.0	19.9	
129 1,2,4-Trichlorobenzene	180	13.076	13.076	0.000	94	88382	20.0	18.7	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	95	32508	20.0	18.9	
131 Naphthalene	128	13.377	13.377	0.000	100	195605	20.0	17.7	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	96	76902	20.0	18.7	
S 133 1,2-Dichloroethene, Total	100				0		40.0	45.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		40.0	38.8	
S 135 Xylenes, Total	100				0		40.0	41.1	
S 137 Total BTEX	1				0		100.0	100.8	

Reagents:

GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 10:30:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42878.D

Injection Date: 21-Mar-2018 08:50:30 Instrument ID: CVOAMS13 Operator ID:

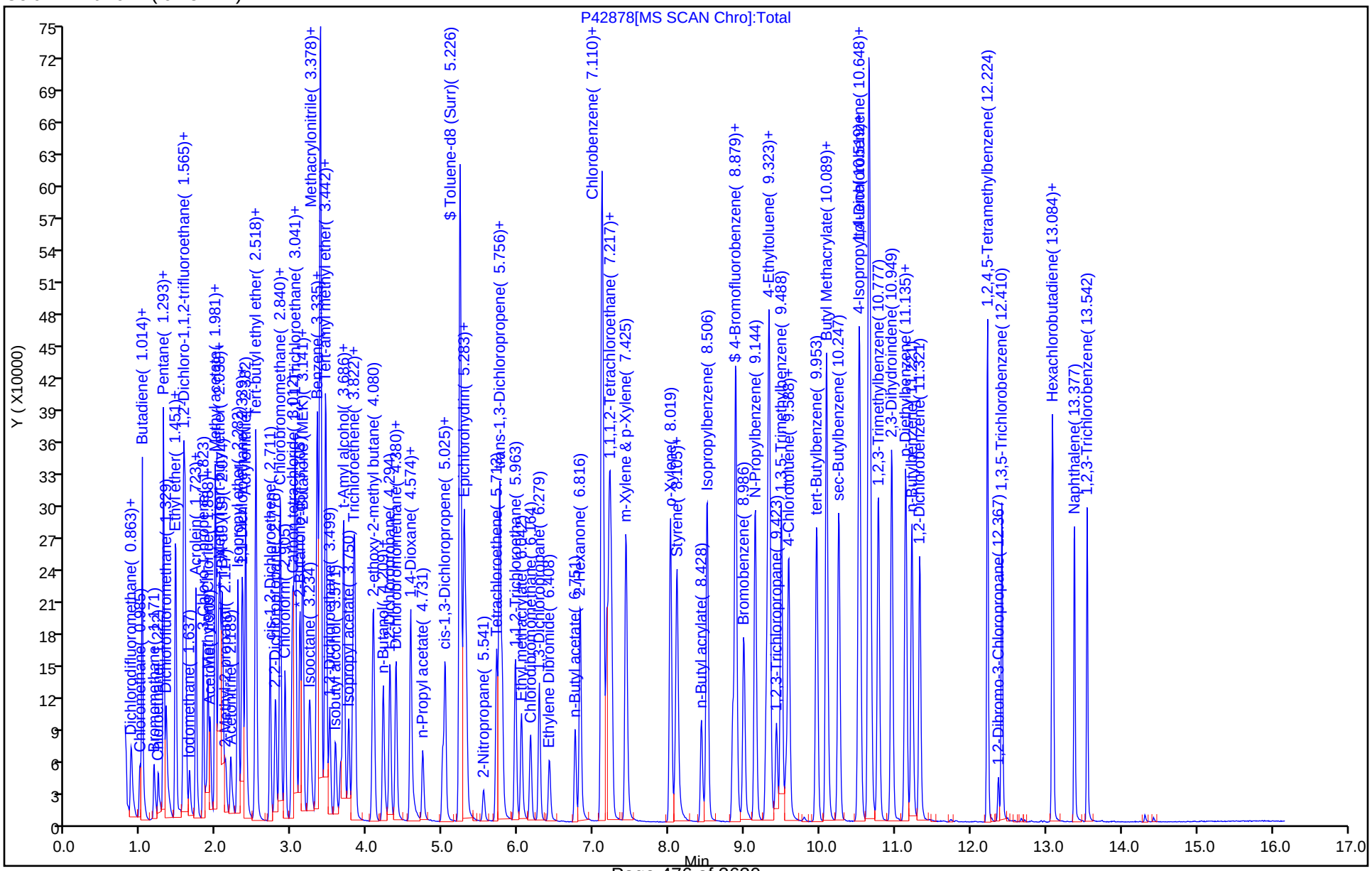
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505144/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42907.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1650	0.1563		18.9	20.0	-5.3	20.0
Dichlorodifluoromethane	Ave	0.5366	0.5990	0.1000	22.3	20.0	11.6	20.0
Chloromethane	Ave	0.4805	0.5139	0.1000	21.4	20.0	7.0	20.0
Vinyl chloride	Ave	0.6098	0.6753	0.1000	22.1	20.0	10.7	20.0
Butadiene	Ave	0.5453	0.5703		20.9	20.0	4.6	20.0
Bromomethane	Ave	1.091	1.653	0.1000	30.3	20.0	51.6*	50.0
Chloroethane	Ave	0.3858	0.3067	0.1000	15.9	20.0	-20.5	50.0
Pentane	Ave	1.902	2.145		45.1	40.0	12.8	20.0
Trichlorofluoromethane	Ave	0.5884	0.7602	0.1000	25.8	20.0	29.2*	20.0
Dichlorofluoromethane	Ave	0.8010	0.9464		23.6	20.0	18.1	20.0
2-Methyl-1,3-butadiene	Ave	0.6185	0.6743		21.8	20.0	9.0	20.0
Ethyl ether	Ave	0.4224	0.4201		19.9	20.0	-0.6	20.0
Ethanol	Ave	0.0638	0.0641		804	800	0.5	50.0
1,1-Dichloroethene	Ave	0.4323	0.4699	0.1000	21.7	20.0	8.7	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5400	0.5969		22.1	20.0	10.5	20.0
Carbon disulfide	Ave	1.588	1.591	0.1000	20.0	20.0	0.2	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4008	0.4594	0.1000	22.9	20.0	14.6	20.0
Iodomethane	QuaF		0.3544		15.3	20.0	-23.4*	20.0
Cyclopentene	Ave	1.145	1.152		20.1	20.0	0.6	20.0
Acrolein	Ave	1.796	0.8774		19.5	40.0	-51.2*	50.0
Allyl chloride	Ave	0.2711	0.3137		23.1	20.0	15.7	20.0
Isopropyl alcohol	Ave	0.7635	0.6733		176	200	-11.8	50.0
Methylene Chloride	Ave	0.5435	0.5765	0.1000	21.2	20.0	6.1	20.0
Acetone	Qua2		0.8053	0.0500	100	100	0.2	50.0
trans-1,2-Dichloroethene	Ave	0.4757	0.5440	0.1000	22.9	20.0	14.4	20.0
Methyl acetate	Ave	0.3737	0.3253	0.1000	87.1	100	-12.9	20.0
Hexane	Ave	0.1163	0.1292		22.2	20.0	11.1	20.0
Methyl tert-butyl ether	Ave	1.346	1.393	0.1000	20.7	20.0	3.5	20.0
2-Methyl-2-propanol	Ave	1.184	1.064		180	200	-10.2	50.0
Acetonitrile	Ave	1.623	1.445		178	200	-11.0	20.0
Isopropyl ether	Ave	1.686	1.637		19.4	20.0	-3.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4218	0.4522		21.4	20.0	7.2	20.0
1,1-Dichloroethane	Ave	0.8373	0.8959	0.2000	21.4	20.0	7.0	20.0
Acrylonitrile	Ave	0.1891	0.1752		185	200	-7.4	20.0
Tert-butyl ethyl ether	Ave	1.492	1.532		20.5	20.0	2.7	20.0
Vinyl acetate	Ave	1.026	1.009		39.3	40.0	-1.7	20.0
cis-1,2-Dichloroethene	Ave	0.5098	0.5953	0.1000	23.4	20.0	16.8	20.0
2,2-Dichloropropane	Ave	0.6049	0.7143		23.6	20.0	18.1	20.0
Cyclohexane	Ave	0.8085	0.8259	0.1000	20.4	20.0	2.2	50.0
Chlorobromomethane	Ave	0.2371	0.2877		24.3	20.0	21.3*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505144/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42907.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.7600	0.8679	0.2000	22.8	20.0	14.2	20.0
Carbon tetrachloride	Ave	0.4934	0.5439	0.1000	22.0	20.0	10.2	20.0
Ethyl acetate	Ave	0.3519	0.3876		44.1	40.0	10.1	20.0
Methyl acrylate	Ave	0.4321	0.4155		19.2	20.0	-3.8	20.0
Tetrahydrofuran	Ave	1.192	1.250		42.0	40.0	4.9	20.0
1,1,1-Trichloroethane	Ave	0.6194	0.7049	0.1000	22.8	20.0	13.8	20.0
1,1-Dichloropropene	Ave	0.6862	0.7165		20.9	20.0	4.4	20.0
2-Butanone (MEK)	Ave	0.3737	0.4238	0.0500	113	100	13.4	50.0
2,2,4-Trimethylpentane	Ave	1.429	1.532		21.4	20.0	7.2	20.0
n-Heptane	Ave	0.3783	0.3868		20.5	20.0	2.3	20.0
Benzene	Ave	1.575	1.443	0.5000	18.3	20.0	-8.4	20.0
Propionitrile	Ave	1.611	1.657		206	200	2.8	20.0
Methacrylonitrile	Ave	0.2019	0.2122		210	200	5.1	20.0
Tert-amyl methyl ether	Ave	1.397	1.473		21.1	20.0	5.4	20.0
1,2-Dichloroethane	Ave	0.6103	0.6436	0.1000	21.1	20.0	5.5	20.0
Isobutyl alcohol	Ave	0.4909	0.4302		438	500	-12.4	50.0
Isopropyl acetate	Ave	0.9027	0.8220		18.2	20.0	-8.9	20.0
Methylcyclohexane	Ave	0.7859	0.8992	0.1000	22.9	20.0	14.4	50.0
Trichloroethene	Ave	0.4877	0.5855	0.2000	24.0	20.0	20.0	20.0
Dibromomethane	Ave	0.2813	0.3292		23.4	20.0	17.0	20.0
n-Butanol	Qua2		0.2802		516	500	3.3	50.0
1,2-Dichloropropane	Ave	0.5057	0.5595	0.1000	22.1	20.0	10.6	20.0
Ethyl acrylate	Ave	0.5860	0.5875		20.1	20.0	0.3	20.0
Dichlorobromomethane	Ave	0.5496	0.6432	0.2000	23.4	20.0	17.0	20.0
Methyl methacrylate	Ave	0.1288	0.1408		43.7	40.0	9.3	20.0
1,4-Dioxane	Ave	1.269	1.225		386	400	-3.5	50.0
n-Propyl acetate	Ave	0.6682	0.6158		18.4	20.0	-7.8	20.0
2-Chloroethyl vinyl ether	Qua2		0.2995		21.7	20.0	8.6	20.0
cis-1,3-Dichloropropene	Ave	0.6080	0.5615	0.2000	18.5	20.0	-7.6	50.0
Toluene	Ave	1.716	1.640	0.4000	19.1	20.0	-4.4	20.0
Epichlorohydrin	Ave	0.2612	0.3305		506	400	26.5*	20.0
2-Nitropropane	Ave	0.0975	0.0906		37.1	40.0	-7.1	20.0
Tetrachloroethene	Ave	0.4034	0.4067	0.2000	20.2	20.0	0.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.757	3.103	0.0500	113	100	12.5	50.0
trans-1,3-Dichloropropene	Ave	0.5188	0.5003	0.1000	19.3	20.0	-3.6	50.0
1,1,2-Trichloroethane	Ave	0.2823	0.2713	0.1000	19.2	20.0	-3.9	20.0
Ethyl methacrylate	Ave	0.5812	0.6204		21.3	20.0	6.7	20.0
Chlorodibromomethane	Ave	0.3392	0.3320	0.1000	19.6	20.0	-2.1	50.0
1,3-Dichloropropane	Ave	0.5985	0.5581		18.7	20.0	-6.7	20.0
Ethylene Dibromide	Ave	0.3272	0.3212	0.1000	19.6	20.0	-1.9	20.0
n-Butyl acetate	QuaF		0.4240		12.7	20.0	-36.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505144/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42907.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	1.932	2.161	0.0500	112	100	11.9	50.0
Chlorobenzene	Ave	1.074	1.108	0.5000	20.6	20.0	3.1	20.0
Ethylbenzene	Ave	0.5813	0.5928	0.1000	20.4	20.0	2.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3324	0.3364		20.2	20.0	1.2	20.0
m-Xylene & p-Xylene	Ave	0.7146	0.7125	0.1000	19.9	20.0	-0.3	20.0
o-Xylene	Ave	0.6806	0.7097	0.3000	20.9	20.0	4.3	20.0
Bromoform	Ave	0.2058	0.1930	0.1000	18.8	20.0	-6.2	20.0
Styrene	Ave	1.082	1.098	0.3000	20.3	20.0	1.5	20.0
n-Butyl acrylate	QuaF		0.2290		14.5	20.0	-27.7*	20.0
Isopropylbenzene	Ave	1.785	1.803	0.1000	20.2	20.0	1.0	20.0
Amyl acetate (mixed isomers)	QuaF		0.7466		11.8	20.0	-41.0*	20.0
Bromobenzene	Ave	0.7749	0.7297		18.8	20.0	-5.8	20.0
N-Propylbenzene	Ave	3.582	3.342		18.7	20.0	-6.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7618	0.6380	0.3000	16.7	20.0	-16.3	20.0
2-Chlorotoluene	Ave	2.475	2.276		18.4	20.0	-8.0	20.0
4-Ethyltoluene	Ave	3.047	2.931		19.2	20.0	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.2172	0.1952		18.0	20.0	-10.1	20.0
1,3,5-Trimethylbenzene	Ave	2.481	2.339		18.9	20.0	-5.7	20.0
trans-1,4-Dichloro-2-butene	Qua2		0.1548		16.1	20.0	-19.5	20.0
4-Chlorotoluene	Ave	2.245	2.086		18.6	20.0	-7.1	20.0
tert-Butylbenzene	Ave	2.134	2.011		18.8	20.0	-5.8	20.0
1,2,4-Trimethylbenzene	Ave	2.590	2.462		19.0	20.0	-4.9	20.0
Butyl Methacrylate	Qua2		0.6444		16.0	20.0	-20.0	20.0
sec-Butylbenzene	Ave	3.203	3.064		19.1	20.0	-4.3	20.0
1,3-Dichlorobenzene	Ave	1.436	1.434	0.6000	20.0	20.0	-0.1	20.0
4-Isopropyltoluene	Ave	2.714	2.630		19.4	20.0	-3.1	20.0
1,4-Dichlorobenzene	Ave	1.544	1.462	0.5000	18.9	20.0	-5.3	20.0
1,2,3-Trimethylbenzene	Ave	2.664	2.505		18.8	20.0	-6.0	20.0
Indan	Ave	2.668	2.605		19.5	20.0	-2.3	20.0
Benzyl chloride	QuaF		0.1944		13.9	20.0	-30.6	50.0
p-Diethylbenzene	Ave	1.434	1.416		19.7	20.0	-1.3	20.0
n-Butylbenzene	Ave	2.453	2.320		18.9	20.0	-5.4	20.0
1,2-Dichlorobenzene	Ave	1.374	1.380	0.4000	20.1	20.0	0.4	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.421	2.398		19.8	20.0	-1.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1318	0.1225	0.0500	18.6	20.0	-7.1	50.0
1,3,5-Trichlorobenzene	Ave	0.998	1.016		20.4	20.0	1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.9277	0.9013	0.2000	19.4	20.0	-2.8	20.0
Hexachlorobutadiene	Ave	0.3390	0.3325		19.6	20.0	-1.9	20.0
Naphthalene	Ave	2.178	1.855		17.0	20.0	-14.9	50.0
1,2,3-Trichlorobenzene	Ave	0.8078	0.7785		19.3	20.0	-3.6	20.0
Dibromofluoromethane (Surr)	Ave	0.4071	0.4461		54.8	50.0	9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505144/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS13 Calib Start Date: 03/05/2018 23:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/06/2018 02:10

Lab File ID: P42907.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.4611	0.4661		50.5	50.0	1.1	20.0
Toluene-d8 (Surr)	Ave	1.436	1.302		45.3	50.0	-9.3	20.0
4-Bromofluorobenzene	Ave	0.4191	0.4204		50.1	50.0	0.3	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42907.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 07:07:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0069112-002
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:15:13 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: desais Date: 22-Mar-2018 07:31:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	86	15755	20.0	18.9	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	60377	20.0	22.3	
4 Chloromethane	50	0.985	0.985	0.000	98	51798	20.0	21.4	
5 Vinyl chloride	62	1.007	1.007	0.000	98	68058	20.0	22.1	
3 Butadiene	54	1.014	1.014	0.000	96	57479	20.0	20.9	
6 Bromomethane	94	1.171	1.171	0.000	99	23291	20.0	30.3	
7 Chloroethane	64	1.221	1.221	0.000	99	30913	20.0	15.9	
9 Pentane	72	1.293	1.293	0.000	97	17411	40.0	45.1	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	96	76624	20.0	25.8	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	95385	20.0	23.6	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	67960	20.0	21.8	
12 Ethyl ether	59	1.465	1.465	0.000	95	42338	20.0	19.9	
13 Ethanol	46	1.551	1.551	0.000	100	10403	800.0	804.0	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	93	60161	20.0	22.1	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	97	47356	20.0	21.7	
16 Carbon disulfide	76	1.580	1.580	0.000	99	160357	20.0	20.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	92	46301	20.0	22.9	
18 Iodomethane	142	1.637	1.637	0.000	97	35721	20.0	15.3	
19 Cyclopentene	67	1.723	1.723	0.000	96	116130	20.0	20.1	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	92	31617	20.0	23.1	
22 Isopropyl alcohol	45	1.859	1.859	0.000	97	27321	200.0	176.4	
23 Methylene Chloride	84	1.880	1.880	0.000	90	58103	20.0	21.2	
24 Acetone	43	1.916	1.916	0.000	87	56718	100.0	100.2	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	93	54832	20.0	22.9	
26 Methyl acetate	43	1.988	1.988	0.000	98	163942	100.0	87.1	
20 Acrolein	56	1.744	1.744	0.000	91	7121	40.0	19.5	
27 Hexane	86	2.024	2.024	0.000	93	13021	20.0	22.2	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	91	140352	20.0	20.7	
* 29 TBA-d9 (IS)	65	2.074	2.074	0.000	0	202904	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.124	2.124	0.000	99	43159	200.0	179.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.189	2.189	0.000	100	58629	200.0	178.0	
32 Isopropyl ether	45	2.282	2.282	0.000	97	164943	20.0	19.4	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	89	45575	20.0	21.4	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	100	90293	20.0	21.4	
35 Acrylonitrile	53	2.382	2.382	0.000	94	176592	200.0	185.3	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	88	154435	20.0	20.5	
37 Vinyl acetate	43	2.518	2.518	0.000	100	203358	40.0	39.3	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	99	60001	20.0	23.4	
39 2,2-Dichloropropane	77	2.776	2.776	0.000	98	71988	20.0	23.6	
40 Cyclohexane	56	2.840	2.840	0.000	90	83239	20.0	20.4	
41 Chlorobromomethane	128	2.848	2.848	0.000	90	28998	20.0	24.3	
42 Chloroform	83	2.905	2.905	0.000	99	87474	20.0	22.8	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	54823	20.0	22.0	
44 Ethyl acetate	70	3.012	3.012	0.000	99	10920	40.0	44.1	
45 Methyl acrylate	55	3.012	3.012	0.000	95	41882	20.0	19.2	
46 Tetrahydrofuran	42	3.019	3.019	0.000	95	35215	40.0	42.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	112396	50.0	54.8	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	96	71044	20.0	22.8	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	176078	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	29848	100.0	113.4	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	93	72211	20.0	20.9	
52 Isooctane	57	3.234	3.234	0.000	99	154386	20.0	21.4	
53 n-Heptane	57	3.327	3.327	0.000	87	38989	20.0	20.5	
54 Benzene	78	3.335	3.335	0.000	96	220426	20.0	18.3	
55 Propionitrile	54	3.356	3.356	0.000	98	67234	200.0	205.7	
56 Methacrylonitrile	67	3.378	3.378	0.000	90	213883	200.0	210.2	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	117449	50.0	50.5	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	148466	20.0	21.1	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	64868	20.0	21.1	
60 Isobutyl alcohol	43	3.578	3.578	0.000	97	43647	500.0	438.2	
61 t-Amyl alcohol	59	3.650	3.650	0.000	96	30777	200.0	182.1	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	251972	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	82845	20.0	18.2	
64 Methylcyclohexane	83	3.815	3.815	0.000	94	90631	20.0	22.9	
65 Trichloroethene	130	3.829	3.829	0.000	97	59011	20.0	24.0	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	96	118203	20.0	20.7	
67 Dibromomethane	93	4.201	4.201	0.000	97	33182	20.0	23.4	
68 n-Butanol	56	4.216	4.216	0.000	89	28424	500.0	516.5	
69 1,2-Dichloropropane	63	4.294	4.294	0.000	93	56393	20.0	22.1	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	59208	20.0	20.1	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	64826	20.0	23.4	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	24632	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	89	28383	40.0	43.7	
74 1,4-Dioxane	88	4.602	4.602	0.000	92	12069	400.0	386.1	
75 n-Propyl acetate	43	4.731	4.731	0.000	98	62068	20.0	18.4	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	98	30187	20.0	21.7	
77 cis-1,3-Dichloropropene	75	5.032	5.032	0.000	92	85793	20.0	18.5	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	100	497254	50.0	45.3	
79 Toluene	91	5.283	5.283	0.000	93	250629	20.0	19.1	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	93107	400.0	506.0	
81 2-Nitropropane	41	5.541	5.541	0.000	97	18259	40.0	37.1	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	62138	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	218555	100.0	112.5	
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	95	76445	20.0	19.3	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	41448	20.0	19.2	
86 Ethyl methacrylate	69	6.042	6.042	0.000	89	62532	20.0	21.3	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	50726	20.0	19.6	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	93	85276	20.0	18.7	
89 Ethylene Dibromide	107	6.415	6.415	0.000	98	49070	20.0	19.6	
90 n-Butyl acetate	43	6.751	6.751	0.000	99	64787	20.0	12.7	
91 2-Hexanone	43	6.823	6.823	0.000	96	152229	100.0	111.9	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	85	381989	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	97	169260	20.0	20.6	
94 Ethylbenzene	106	7.210	7.210	0.000	98	90583	20.0	20.4	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	96	51406	20.0	20.2	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	108861	20.0	19.9	
97 o-Xylene	106	8.019	8.019	0.000	96	108436	20.0	20.9	
98 Bromoform	173	8.084	8.084	0.000	95	29487	20.0	18.8	
99 Styrene	104	8.105	8.105	0.000	97	167693	20.0	20.3	
100 n-Butyl acrylate	73	8.428	8.428	0.000	98	34984	20.0	14.5	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	275564	20.0	20.2	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	72476	20.0	11.8	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	92	160580	50.0	50.1	
104 Bromobenzene	156	8.993	8.993	0.000	95	70830	20.0	18.8	
105 N-Propylbenzene	91	9.144	9.144	0.000	100	324436	20.0	18.7	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	98	61927	20.0	16.7	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	220964	20.0	18.4	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	284528	20.0	19.2	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	18946	20.0	18.0	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	95	227080	20.0	18.9	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	89	15030	20.0	16.1	
112 4-Chlorotoluene	91	9.588	9.588	0.000	97	202464	20.0	18.6	
113 tert-Butylbenzene	119	9.960	9.960	0.000	96	195200	20.0	18.8	
114 Butyl Methacrylate	87	10.089	10.089	0.000	47	62548	20.0	16.0	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	238973	20.0	19.0	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	297392	20.0	19.1	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	97	139183	20.0	20.0	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	255339	20.0	19.4	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	242678	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	141884	20.0	18.9	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	243146	20.0	18.8	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	252905	20.0	19.5	
122 Benzyl chloride	126	11.121	11.121	0.000	98	18867	20.0	13.9	
123 p-Diethylbenzene	119	11.142	11.142	0.000	95	137441	20.0	19.7	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	225180	20.0	18.9	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	98	133967	20.0	20.1	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	97	232807	20.0	19.8	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	92	11890	20.0	18.6	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	98647	20.0	20.4	
129 1,2,4-Trichlorobenzene	180	13.083	13.083	0.000	93	87491	20.0	19.4	
130 Hexachlorobutadiene	225	13.098	13.098	0.000	94	32278	20.0	19.6	
131 Naphthalene	128	13.377	13.377	0.000	100	180023	20.0	17.0	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	95	75573	20.0	19.3	
S 133 1,2-Dichloroethene, Total	100				0		40.0	46.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		40.0	37.8	
S 135 Xylenes, Total	100				0		40.0	40.8	
S 137 Total BTEX	1				0		100.0	98.6	

Reagents:

GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 10:15:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42907.D

Injection Date: 22-Mar-2018 07:07:30 Instrument ID: CVOAMS13 Operator ID:

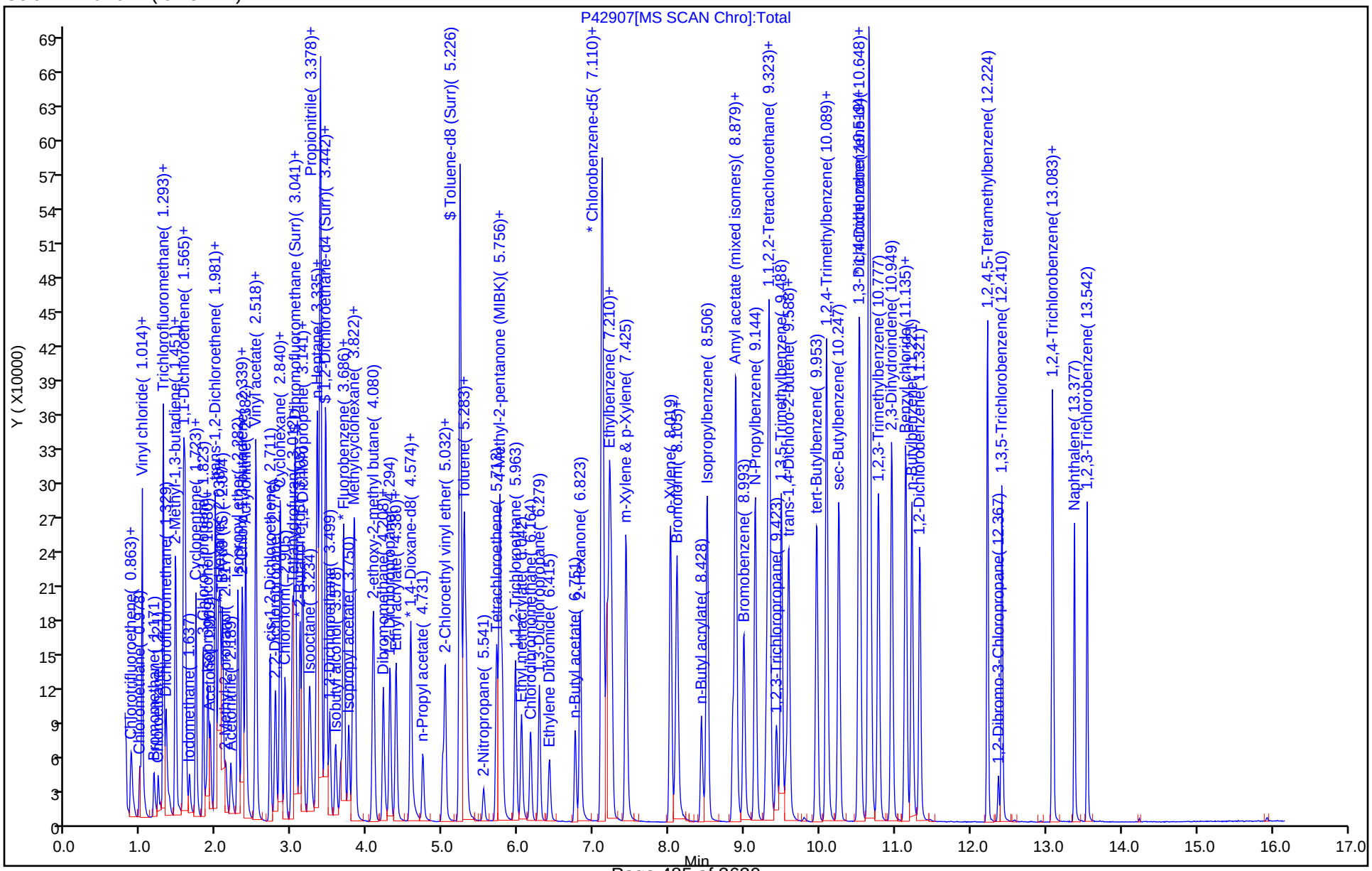
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503116/14 Calibration Date: 03/13/2018 14:42

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04582.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	QuaF		0.0533		18.6	20.0	-6.9	30.0
Dichlorodifluoromethane	QuaF		0.2261	0.1000	13.0	20.0	-34.8*	30.0
Chloromethane	Ave	0.2182	0.1995	0.1000	18.3	20.0	-8.6	30.0
Vinyl chloride	Ave	0.1916	0.1839	0.1000	19.2	20.0	-4.0	30.0
Butadiene	Lin		0.1754		17.5	20.0	-12.3	30.0
Bromomethane	QuaF		0.1503	0.1000	13.5	20.0	-32.3*	30.0
Chloroethane	Ave	0.5071	0.5585	0.1000	22.0	20.0	10.1	30.0
Dichlorofluoromethane	Ave	0.3036	0.3120		20.6	20.0	2.8	30.0
Trichlorofluoromethane	QuaF		0.3348	0.1000	15.0	20.0	-25.1	30.0
Pentane	Ave	0.2227	0.2593		46.6	40.0	16.4	30.0
Ethanol	Ave	0.5292	0.3833		579	800	-27.6	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2190	0.2341		21.4	20.0	6.9	30.0
Ethyl ether	Ave	0.2632	0.2640		20.1	20.0	0.3	30.0
2-Methyl-1,3-butadiene	Ave	0.2545	0.2743		21.6	20.0	7.8	30.0
Acrolein	Ave	8.353	11.28		54.1	40.1	35.0*	30.0
1,1-Dichloroethene	Ave	0.2552	0.2508	0.1000	19.7	20.0	-1.7	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2315	0.2387	0.1000	20.6	20.0	3.1	30.0
Acetone	Ave	0.6811	0.6642	0.0500	97.5	100	-2.5	30.0
Iodomethane	QuaF		0.1010		9.42	20.0	-52.9*	30.0
Carbon disulfide	Ave	0.6452	0.6037	0.1000	18.7	20.0	-6.4	30.0
Isopropyl alcohol	Ave	3.909	4.451		228	200	13.9	30.0
Acetonitrile	Ave	0.1666	0.1756		211	200	5.4	30.0
Allyl chloride	Ave	0.1717	0.1771		20.6	20.0	3.1	30.0
Methyl acetate	Ave	0.2647	0.2683	0.1000	101	100	1.3	30.0
Cyclopentene	Ave	0.6341	0.6800		21.4	20.0	7.2	30.0
Methylene Chloride	Ave	0.3094	0.2994	0.1000	19.4	20.0	-3.2	30.0
2-Methyl-2-propanol	Ave	6.214	7.133		230	200	14.8	30.0
Acrylonitrile	Ave	0.1293	0.1376		213	200	6.4	30.0
trans-1,2-Dichloroethene	Ave	0.2720	0.2921	0.1000	21.5	20.0	7.4	30.0
Methyl tert-butyl ether	Ave	0.7169	0.7590	0.1000	21.2	20.0	5.9	30.0
Hexane	Ave	0.4258	0.4635		21.8	20.0	8.9	30.0
1,1-Dichloroethane	Ave	0.5711	0.5597	0.2000	19.6	20.0	-2.0	30.0
Vinyl acetate	Ave	0.2870	0.3599		50.2	40.0	25.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2555	0.2751		21.5	20.0	7.7	30.0
Isopropyl ether	Ave	1.072	1.122		20.9	20.0	4.7	30.0
Tert-butyl ethyl ether	Ave	0.9936	0.9920		20.0	20.0	-0.2	30.0
2,2-Dichloropropane	Ave	0.0874	0.0966		22.1	20.0	10.5	30.0
cis-1,2-Dichloroethene	Ave	0.3219	0.3221	0.1000	20.0	20.0	0.0	30.0
2-Butanone (MEK)	Ave	0.9735	1.011	0.0500	104	100	3.9	30.0
Propionitrile	Ave	9.340	10.52		225	200	12.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503116/14 Calibration Date: 03/13/2018 14:42

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04582.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.1745	0.1917		43.9	40.0	9.8	30.0
Methacrylonitrile	Ave	0.1226	0.1303		213	200	6.3	30.0
Chlorobromomethane	Ave	0.1293	0.1349		20.9	20.0	4.3	30.0
Tetrahydrofuran	Ave	0.2244	0.2391		42.6	40.0	6.5	30.0
Chloroform	Ave	0.4676	0.4639	0.2000	19.8	20.0	-0.8	30.0
1,1,1-Trichloroethane	Ave	0.3853	0.3811	0.1000	19.8	20.0	-1.1	30.0
Cyclohexane	Ave	0.3812	0.4056	0.1000	21.3	20.0	6.4	30.0
1,1-Dichloropropene	Ave	0.3510	0.3782		21.6	20.0	7.8	30.0
Carbon tetrachloride	Ave	0.2846	0.2957	0.1000	20.8	20.0	3.9	30.0
Isobutyl alcohol	Ave	2.491	2.876		577	500	15.4	30.0
Benzene	Ave	1.316	1.424	0.5000	21.6	20.0	8.2	30.0
1,2-Dichloroethane	Ave	0.3977	0.3819	0.1000	19.2	20.0	-4.0	30.0
Isopropyl acetate	Ave	0.1235	0.1332		21.6	20.0	7.8	30.0
Tert-amyl methyl ether	Ave	0.7432	0.7631		20.5	20.0	2.7	30.0
n-Heptane	Ave	0.4360	0.4607		21.1	20.0	5.7	30.0
n-Butanol	Ave	1.532	1.786		583	500	16.6	30.0
Trichloroethene	Ave	0.2913	0.2964	0.2000	20.4	20.0	1.8	30.0
Ethyl acrylate	Lin2		0.4547		19.1	20.0	-4.3	30.0
Methylcyclohexane	Ave	0.4405	0.4775	0.1000	21.7	20.0	8.4	30.0
1,2-Dichloropropane	Ave	0.3243	0.3376	0.1000	20.8	20.0	4.1	30.0
Dibromomethane	Ave	0.1700	0.1677		19.7	20.0	-1.3	30.0
1,4-Dioxane	Ave	0.8801	1.015		461	400	15.3	30.0
Methyl methacrylate	Ave	0.0745	0.0780		41.9	40.0	4.6	30.0
n-Propyl acetate	Ave	0.5236	0.5108		19.5	20.0	-2.4	30.0
Dichlorobromomethane	Ave	0.3002	0.2924	0.2000	19.5	20.0	-2.6	30.0
2-Nitropropane	Qua2		0.0618		36.4	40.0	-9.0	30.0
2-Chloroethyl vinyl ether	Ave	0.2304	0.2262		19.6	20.0	-1.9	30.0
Epichlorohydrin	Ave	0.1984	0.2292		23.1	20.0	15.5	30.0
cis-1,3-Dichloropropene	Ave	0.4854	0.5579	0.2000	23.0	20.0	14.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.772	1.914	0.0500	108	100	8.0	30.0
Toluene	Ave	1.348	1.500	0.4000	22.3	20.0	11.3	30.0
trans-1,3-Dichloropropene	Ave	0.4206	0.4545	0.1000	21.6	20.0	8.1	30.0
Ethyl methacrylate	Ave	0.3679	0.4081		22.2	20.0	10.9	30.0
1,1,2-Trichloroethane	Ave	0.2361	0.2591	0.1000	22.0	20.0	9.8	30.0
Tetrachloroethene	Ave	0.3686	0.4144	0.2000	22.5	20.0	12.4	30.0
1,3-Dichloropropane	Ave	0.4963	0.5391		21.7	20.0	8.6	30.0
2-Hexanone	Ave	1.261	1.340	0.0500	106	100	6.2	30.0
Chlorodibromomethane	Qua2		0.2633	0.1000	20.7	20.0	3.7	30.0
n-Butyl acetate	Ave	0.5968	0.6344		21.3	20.0	6.3	30.0
Ethylene Dibromide	Ave	0.3011	0.3404	0.1000	22.6	20.0	13.0	30.0
Chlorobenzene	Ave	0.8956	0.9876	0.5000	22.1	20.0	10.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503116/14 Calibration Date: 03/13/2018 14:42

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04582.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1,2-Tetrachloroethane	Ave	0.2782	0.3021		21.7	20.0	8.6	30.0
Ethylbenzene	Ave	0.4782	0.5373	0.1000	22.5	20.0	12.4	30.0
m-Xylene & p-Xylene	Ave	0.5794	0.6504	0.1000	22.5	20.0	12.3	30.0
o-Xylene	Ave	0.5533	0.6250	0.3000	22.6	20.0	13.0	30.0
Styrene	Ave	0.8778	0.9903	0.3000	22.6	20.0	12.8	30.0
n-Butyl acrylate	Lin2		0.2398		20.8	20.0	4.0	30.0
Bromoform	Qua2		0.1611	0.1000	20.3	20.0	1.7	30.0
Amyl acetate (mixed isomers)	Lin2		1.333		20.4	20.0	2.0	30.0
Isopropylbenzene	Ave	1.430	1.616	0.1000	22.6	20.0	13.0	30.0
Bromobenzene	Ave	0.7072	0.7824		22.1	20.0	10.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6491	0.7373	0.3000	22.7	20.0	13.6	30.0
1,2,3-Trichloropropane	Ave	0.2115	0.2398		22.7	20.0	13.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2139	0.2382		22.3	20.0	11.4	30.0
N-Propylbenzene	Ave	3.168	3.690		23.3	20.0	16.5	30.0
2-Chlorotoluene	Ave	1.858	2.102		22.6	20.0	13.1	30.0
4-Ethyltoluene	Ave	2.646	3.054		23.1	20.0	15.4	30.0
4-Chlorotoluene	Ave	1.803	2.071		23.0	20.0	14.8	30.0
1,3,5-Trimethylbenzene	Ave	2.116	2.440		23.1	20.0	15.3	30.0
Butyl Methacrylate	Lin2		0.7446		20.7	20.0	3.4	30.0
tert-Butylbenzene	Ave	1.891	2.169		22.9	20.0	14.7	30.0
1,2,4-Trimethylbenzene	Ave	2.182	2.481		22.7	20.0	13.7	30.0
sec-Butylbenzene	Ave	2.794	3.270		23.4	20.0	17.0	30.0
1,3-Dichlorobenzene	Ave	1.284	1.440	0.6000	22.4	20.0	12.1	30.0
1,4-Dichlorobenzene	Ave	1.242	1.433	0.5000	23.1	20.0	15.3	30.0
4-Isopropyltoluene	Ave	2.249	2.691		23.9	20.0	19.7	30.0
Benzyl chloride	Qua2		1.228		23.1	20.0	15.7	30.0
Indan	Ave	2.090	2.378		22.8	20.0	13.8	30.0
1,2-Dichlorobenzene	Ave	1.177	1.315	0.4000	22.3	20.0	11.7	30.0
p-Diethylbenzene	Ave	1.237	1.517		24.5	20.0	22.6	30.0
n-Butylbenzene	Ave	1.184	1.420		24.0	20.0	19.9	30.0
1,2-Dibromo-3-Chloropropane	Qua2		0.1023	0.0500	20.6	20.0	3.2	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.945	2.291		23.6	20.0	17.8	30.0
1,3,5-Trichlorobenzene	Ave	0.8754	0.9906		22.6	20.0	13.2	30.0
1,2,4-Trichlorobenzene	Ave	0.7560	0.8771	0.2000	23.2	20.0	16.0	30.0
Hexachlorobutadiene	Ave	0.3287	0.3939		24.0	20.0	19.8	30.0
Naphthalene	Ave	1.841	2.133		23.2	20.0	15.8	30.0
1,2,3-Trichlorobenzene	Ave	0.6731	0.7640		22.7	20.0	13.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2513	0.2409		47.9	50.0	-4.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2863	0.2683		46.9	50.0	-6.3	30.0
Toluene-d8 (Surr)	Ave	1.156	1.172		50.7	50.0	1.4	30.0
4-Bromofluorobenzene	Ave	0.3755	0.3696		49.2	50.0	-1.6	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04582.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 13-Mar-2018 14:42:27 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: Instrument ID: CVOAMS15
Sublist:

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Mar-2018 13:42:31 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK017

First Level Reviewer: desais Date: 14-Mar-2018 09:28:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.913	0.913	0.000	86	12074	20.0	18.6	
2 Dichlorodifluoromethane	85	0.934	0.933	0.001	88	51229	20.0	13.0	
3 Chloromethane	50	1.038	1.044	-0.006	88	45193	20.0	18.3	
4 Vinyl chloride	62	1.096	1.096	0.000	84	41659	20.0	19.2	
5 Butadiene	54	1.117	1.117	0.000	96	39739	20.0	17.5	
6 Bromomethane	94	1.274	1.280	-0.006	96	5847	20.0	13.5	
7 Chloroethane	64	1.337	1.342	-0.005	96	21722	20.0	22.0	
8 Dichlorofluoromethane	67	1.458	1.458	0.000	90	70700	20.0	20.6	
9 Trichlorofluoromethane	101	1.489	1.495	-0.005	88	75863	20.0	15.0	
10 Pentane	72	1.536	1.542	-0.006	96	20171	40.0	46.6	
11 Ethanol	46	1.626	1.626	0.000	98	18277	800.0	579.4	
12 Ethyl ether	59	1.673	1.673	0.000	59	59819	20.0	20.1	
13 1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	81	53047	20.0	21.4	
14 2-Methyl-1,3-butadiene	53	1.678	1.683	-0.005	87	62150	20.0	21.6	
15 Acrolein	56	1.746	1.746	0.000	96	26938	40.1	54.1	
16 1,1-Dichloroethene	96	1.804	1.809	-0.005	87	56824	20.0	19.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	68	54081	20.0	20.6	
18 Acetone	43	1.846	1.846	0.000	87	129153	100.0	97.5	
19 Iodomethane	142	1.898	1.898	0.000	96	22889	20.0	9.42	
21 Carbon disulfide	76	1.940	1.945	-0.005	100	136787	20.0	18.7	
20 Isopropyl alcohol	45	1.945	1.945	0.000	46	53064	200.0	227.7	
24 Acetonitrile	40	2.024	2.024	0.000	89	68309	200.0	210.9	
22 3-Chloro-1-propene	76	2.035	2.040	-0.005	90	40135	20.0	20.6	
23 Methyl acetate	43	2.056	2.056	0.000	99	303904	100.0	101.3	
25 Cyclopentene	67	2.092	2.092	0.000	95	154076	20.0	21.4	
26 Methylene Chloride	84	2.118	2.118	0.000	91	67844	20.0	19.4	
* 27 TBA-d9 (IS)	66	2.155	2.155	0.000	98	59608	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.213	2.213	0.000	99	85040	200.0	229.6	
29 Acrylonitrile	53	2.286	2.286	0.000	95	311700	200.0	212.9	
30 trans-1,2-Dichloroethene	96	2.302	2.307	-0.005	89	66182	20.0	21.5	
31 Methyl tert-butyl ether	73	2.312	2.318	-0.006	97	171973	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.506	2.506	0.000	93	105017	20.0	21.8	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	126802	20.0	19.6	
34 Vinyl acetate	86	2.653	2.653	0.000	100	27996	40.0	50.2	
35 Isopropyl ether	45	2.674	2.674	0.000	90	254284	20.0	20.9	
36 2-Chloro-1,3-butadiene	88	2.674	2.679	-0.005	65	62336	20.0	21.5	
37 Tert-butyl ethyl ether	59	2.957	2.957	0.000	88	224764	20.0	20.0	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	486159	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.057	3.062	-0.005	85	72977	20.0	20.0	
39 2,2-Dichloropropane	97	3.057	3.062	-0.005	72	21882	20.0	22.1	a
41 2-Butanone (MEK)	43	3.078	3.083	-0.005	99	196609	100.0	103.9	
42 Propionitrile	54	3.125	3.125	0.000	99	125427	200.0	225.3	
43 Ethyl acetate	70	3.141	3.141	0.000	99	14911	40.0	43.9	
44 Methyl acrylate	55	3.162	3.167	-0.005	92	80916	20.0	19.3	
45 Methacrylonitrile	67	3.251	3.256	-0.005	95	295280	200.0	212.5	
46 Chlorobromomethane	128	3.256	3.261	-0.005	41	30572	20.0	20.9	
47 Tetrahydrofuran	72	3.309	3.309	0.000	87	18596	40.0	42.6	
48 Chloroform	83	3.330	3.335	-0.005	92	105096	20.0	19.8	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	98	136428	50.0	47.9	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	85	86345	20.0	19.8	
51 Cyclohexane	84	3.539	3.539	0.000	94	91901	20.0	21.3	
52 Carbon tetrachloride	117	3.639	3.639	0.000	71	66987	20.0	20.8	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	91	85698	20.0	21.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.770	3.775	-0.005	86	151953	50.0	46.9	
54 Isobutyl alcohol	43	3.786	3.791	-0.005	86	85715	500.0	577.2	
56 Benzene	78	3.828	3.828	0.000	98	258325	20.0	21.6	
57 1,2-Dichloroethane	62	3.843	3.843	0.000	66	86530	20.0	19.2	
58 Isooctane	57	3.922	3.922	0.000	99	247211	20.0	21.4	
59 Isopropyl acetate	61	3.933	3.938	-0.005	88	30171	20.0	21.6	
60 Tert-amyl methyl ether	73	3.954	3.959	-0.005	77	172894	20.0	20.5	
* 61 Fluorobenzene	96	4.100	4.100	0.000	98	566435	50.0	50.0	
62 n-Heptane	43	4.111	4.116	-0.005	48	104379	20.0	21.1	
63 n-Butanol	56	4.462	4.467	-0.005	90	53227	500.0	582.9	
64 Trichloroethene	95	4.473	4.473	0.000	94	67161	20.0	20.4	
65 Ethyl acrylate	55	4.625	4.630	-0.005	98	103018	20.0	19.1	
66 Methylcyclohexane	83	4.672	4.672	0.000	91	108188	20.0	21.7	
67 1,2-Dichloropropane	63	4.703	4.709	-0.006	87	76484	20.0	20.8	
* 68 1,4-Dioxane-d8	96	4.824	4.829	-0.005	42	42831	1000.0	1000.0	
69 Dibromomethane	93	4.829	4.829	0.000	95	37997	20.0	19.7	
70 1,4-Dioxane	88	4.882	4.882	0.000	31	17385	400.0	461.2	
71 Methyl methacrylate	100	4.882	4.882	0.000	96	35340	40.0	41.9	
72 n-Propyl acetate	43	4.965	4.965	0.000	99	115739	20.0	19.5	
73 Dichlorobromomethane	83	5.018	5.023	-0.005	94	66242	20.0	19.5	
74 2-Nitropropane	41	5.291	5.296	-0.005	95	28003	40.0	36.4	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	95	51243	20.0	19.6	
76 Epichlorohydrin	57	5.458	5.458	0.000	90	8913	20.0	23.1	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	90	101205	20.0	23.0	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	372126	100.0	108.0	
$ 79 Toluene-d8 (Surr)	98	5.873	5.878	-0.005	99	531625	50.0	50.7	
80 Toluene	91	5.956	5.956	0.000	93	272096	20.0	22.3	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	97	82462	20.0	21.6	
82 Ethyl methacrylate	69	6.444	6.449	-0.005	94	74041	20.0	22.2	
83 1,1,2-Trichloroethane	83	6.491	6.496	-0.005	92	47014	20.0	22.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.659	6.659	0.000	93	75185	20.0	22.5	
85 1,3-Dichloropropane	76	6.706	6.711	-0.005	98	97810	20.0	21.7	
86 2-Hexanone	43	6.884	6.884	0.000	97	260557	100.0	106.2	
87 Chlorodibromomethane	129	7.005	7.005	0.000	97	47767	20.0	20.7	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	115091	20.0	21.3	
89 Ethylene Dibromide	107	7.131	7.131	0.000	94	61747	20.0	22.6	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	453553	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	95	179176	20.0	22.1	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.006	-0.005	91	54810	20.0	21.7	
93 Ethylbenzene	106	8.059	8.064	-0.005	98	97481	20.0	22.5	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	97	118004	20.0	22.5	
95 o-Xylene	106	8.840	8.840	0.000	93	113390	20.0	22.6	
96 Styrene	104	8.866	8.872	-0.006	91	179660	20.0	22.6	
97 n-Butyl acrylate	73	8.919	8.924	-0.005	95	43499	20.0	20.8	
98 Bromoform	173	9.102	9.102	0.000	98	29219	20.0	20.3	
99 Amyl acetate (mixed isomer	43	9.312	9.312	0.000	89	126754	20.0	20.4	
100 Isopropylbenzene	105	9.448	9.448	0.000	96	293127	20.0	22.6	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	167648	50.0	49.2	
102 Bromobenzene	156	9.842	9.847	-0.005	94	74400	20.0	22.1	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	92	70112	20.0	22.7	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	91	22797	20.0	22.7	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.062	0.000	80	22650	20.0	22.3	
106 N-Propylbenzene	91	10.114	10.119	-0.005	99	350901	20.0	23.3	
107 2-Chlorotoluene	91	10.193	10.193	0.000	96	199838	20.0	22.6	
108 4-Ethyltoluene	105	10.313	10.319	-0.006	98	290405	20.0	23.1	
109 4-Chlorotoluene	91	10.382	10.382	0.000	98	196904	20.0	23.0	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	92	232057	20.0	23.1	
111 Butyl Methacrylate	87	10.712	10.712	0.000	94	70797	20.0	20.7	
112 tert-Butylbenzene	119	10.953	10.953	0.000	95	206274	20.0	22.9	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	235915	20.0	22.7	
113 sec-Butylbenzene	105	11.310	11.310	0.000	99	310906	20.0	23.4	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	96	136907	20.0	22.4	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.509	-0.005	96	237718	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	93	136259	20.0	23.1	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	255906	20.0	23.9	
135 1,2,3-Trimethylbenzene	105	11.650	11.650	0.000	99	237654	20.0	23.0	
119 Benzyl chloride	91	11.755	11.755	0.000	98	116812	20.0	23.1	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	90	226071	20.0	22.8	
121 1,2-Dichlorobenzene	146	12.017	12.017	0.000	95	125065	20.0	22.3	
122 p-Diethylbenzene	119	12.065	12.065	0.000	92	144211	20.0	24.5	
123 n-Butylbenzene	92	12.091	12.091	0.000	97	134992	20.0	24.0	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.924	0.000	69	9725	20.0	20.6	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	97	217859	20.0	23.6	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	97	94195	20.0	22.6	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	83397	20.0	23.2	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	77	37454	20.0	24.0	
129 Naphthalene	128	13.942	13.942	0.000	99	202802	20.0	23.2	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	95	72646	20.0	22.7	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.5	
S 132 Xylenes, Total	100				0		40.0	45.0	
S 136 1,3-Dichloropropene, Total	1				0		40.0	44.6	
S 133 Total BTEX	1				0		100.0	111.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260 SP_00079	Amount Added:	20.00	Units: uL	
ACROLEIN SP_00082	Amount Added:	4.00	Units: uL	
GAS C SP_00241	Amount Added:	20.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2018 13:42:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04582.D

Injection Date: 13-Mar-2018 14:42:27 Instrument ID: CVOAMS15

Lims ID: ICV

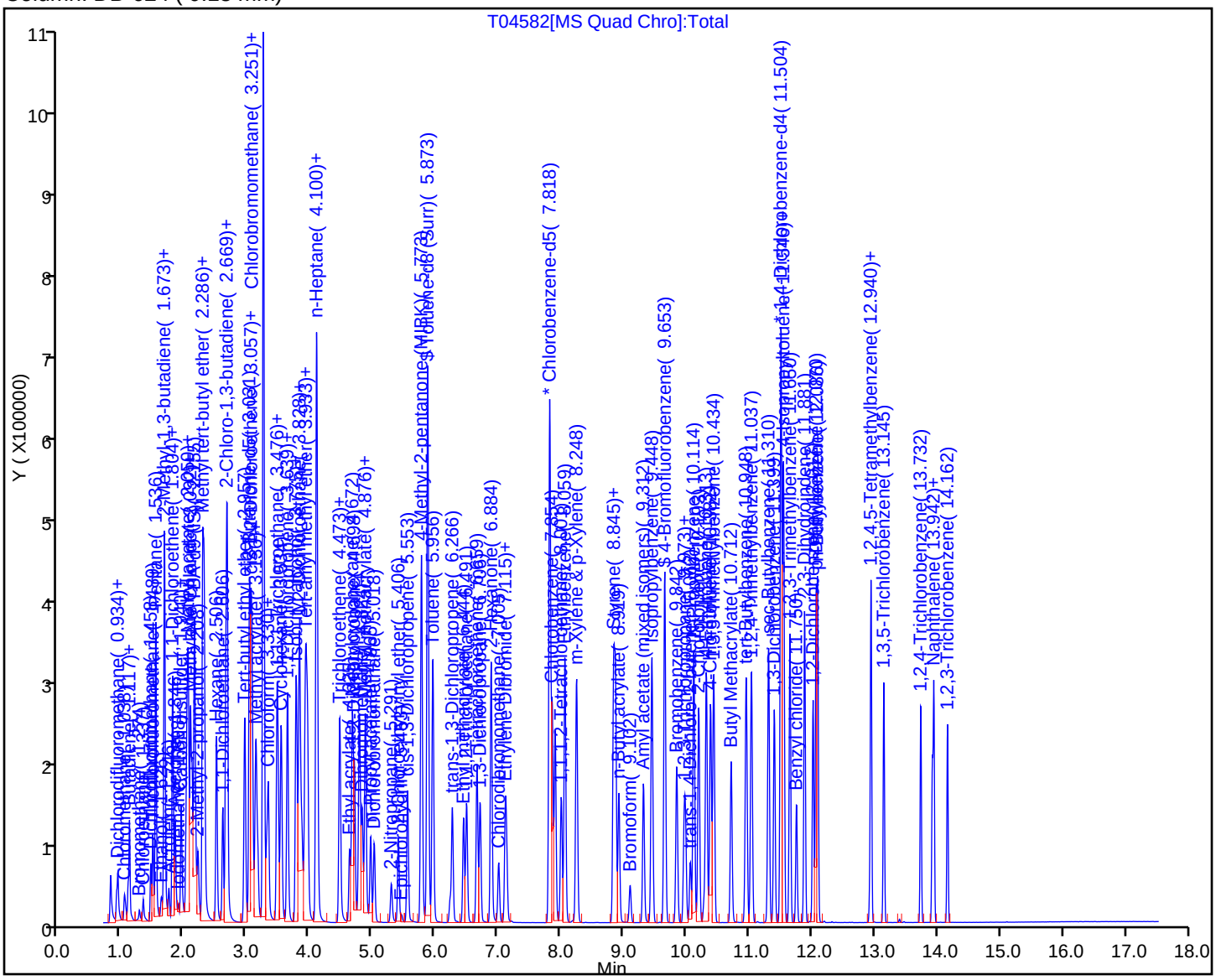
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

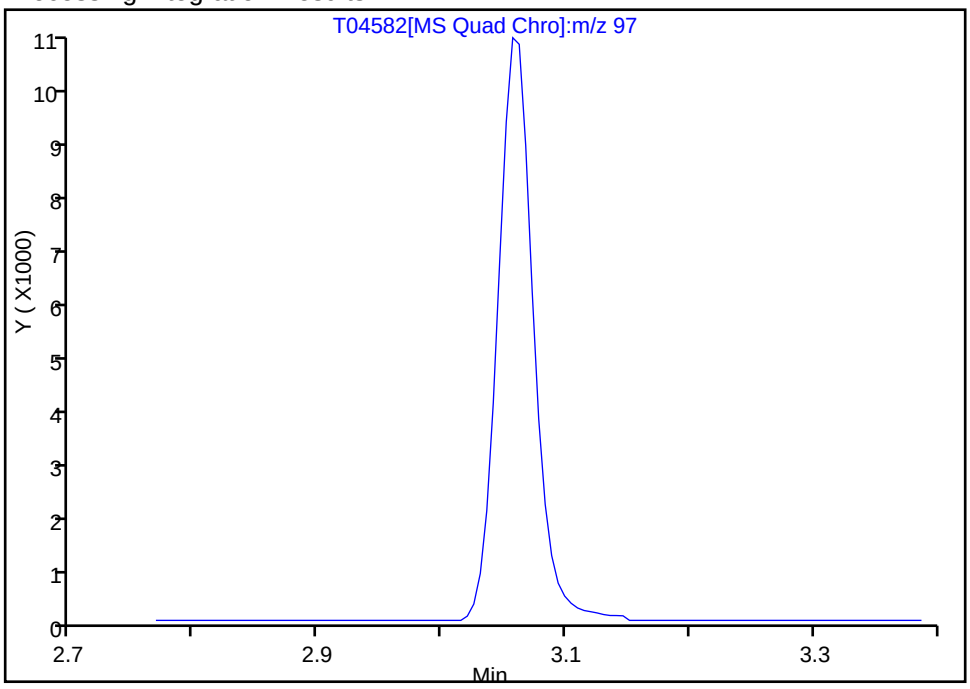
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04582.D
Injection Date: 13-Mar-2018 14:42:27 Instrument ID: CVOAMS15
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

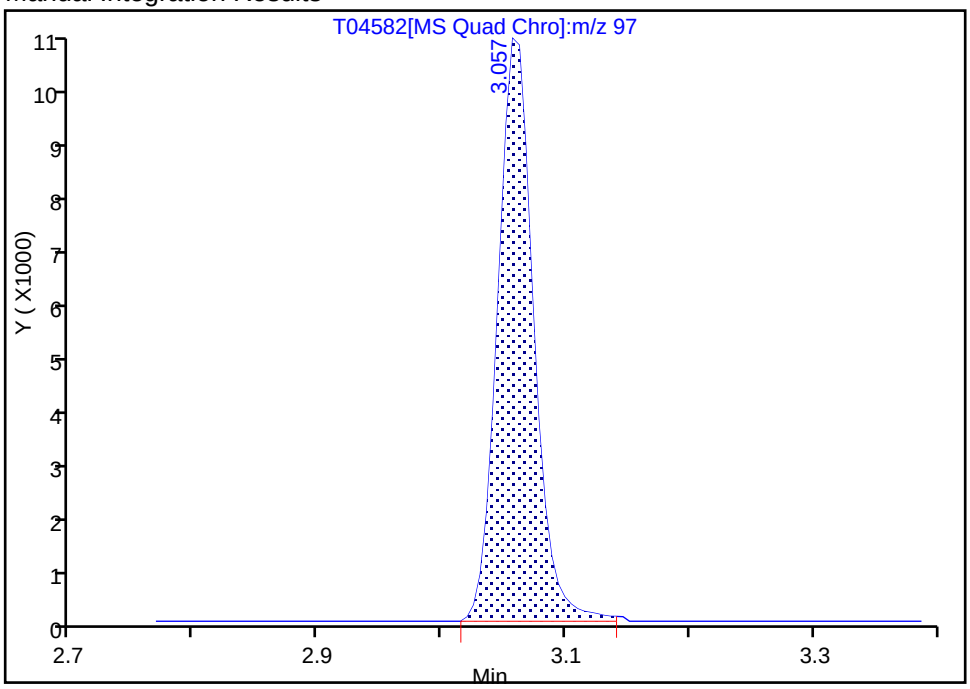
Not Detected
Expected RT: 3.06

Processing Integration Results



Manual Integration Results

RT: 3.06
Area: 21882
Amount: 22.106699
Amount Units: ug/l



Reviewer: delpolitov, 16-Mar-2018 13:40:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505151/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	QuaF		0.0650		22.7	20.0	13.5	20.0
Dichlorodifluoromethane	QuaF		0.2951	0.1000	17.0	20.0	-14.8	20.0
Chloromethane	Ave	0.2182	0.2313	0.1000	21.2	20.0	6.0	20.0
Vinyl chloride	Ave	0.1916	0.2031	0.1000	21.2	20.0	6.0	20.0
Butadiene	Lin		0.2021		20.2	20.0	0.9	20.0
Bromomethane	QuaF		0.1442	0.1000	13.0	20.0	-35.1	50.0
Chloroethane	Ave	0.5071	0.5437	0.1000	21.4	20.0	7.2	50.0
Dichlorofluoromethane	Ave	0.3036	0.3376		22.2	20.0	11.2	20.0
Trichlorofluoromethane	QuaF		0.3776	0.1000	16.9	20.0	-15.5	20.0
Pentane	Ave	0.2227	0.0441		7.92	40.0	-80.2*	20.0
Ethanol	Ave	0.5292	0.3786		572	800	-28.4	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2190	0.2411		22.0	20.0	10.1	20.0
Ethyl ether	Ave	0.2632	0.2879		21.9	20.0	9.4	20.0
2-Methyl-1,3-butadiene	Ave	0.2545	0.2788		21.9	20.0	9.6	20.0
Acrolein	Ave	8.353	4.962		23.8	40.0	-40.6	50.0
1,1-Dichloroethene	Ave	0.2552	0.2716	0.1000	21.3	20.0	6.4	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2315	0.2677	0.1000	23.1	20.0	15.6	20.0
Acetone	Ave	0.6811	0.6028	0.0500	88.5	100	-11.5	50.0
Iodomethane	QuaF		0.1038		9.68	20.0	-51.6*	20.0
Carbon disulfide	Ave	0.6452	0.6028	0.1000	18.7	20.0	-6.6	50.0
Isopropyl alcohol	Ave	3.909	4.297		220	200	9.9	50.0
Acetonitrile	Ave	0.1666	0.1795		215	200	7.7	20.0
Allyl chloride	Ave	0.1717	0.1949		22.7	20.0	13.4	20.0
Methyl acetate	Ave	0.2647	0.2822	0.1000	107	100	6.6	20.0
Cyclopentene	Ave	0.6341	0.6809		21.5	20.0	7.4	20.0
Methylene Chloride	Ave	0.3094	0.3170	0.1000	20.5	20.0	2.5	20.0
2-Methyl-2-propanol	Ave	6.214	7.055		227	200	13.5	50.0
Acrylonitrile	Ave	0.1293	0.1440		223	200	11.4	20.0
trans-1,2-Dichloroethene	Ave	0.2720	0.2927	0.1000	21.5	20.0	7.6	20.0
Methyl tert-butyl ether	Ave	0.7169	0.7707	0.1000	21.5	20.0	7.5	20.0
Hexane	Ave	0.4258	0.5230		24.6	20.0	22.8*	20.0
1,1-Dichloroethane	Ave	0.5711	0.5798	0.2000	20.3	20.0	1.5	20.0
Vinyl acetate	Ave	0.2870	0.3700		51.6	40.0	28.9*	20.0
2-Chloro-1,3-butadiene	Ave	0.2555	0.2857		22.4	20.0	11.8	20.0
Isopropyl ether	Ave	1.072	1.176		22.0	20.0	9.8	20.0
Tert-butyl ethyl ether	Ave	0.9936	1.028		20.7	20.0	3.5	20.0
2,2-Dichloropropane	Ave	0.0874	0.0986		22.6	20.0	12.8	20.0
cis-1,2-Dichloroethene	Ave	0.3219	0.3431	0.1000	21.3	20.0	6.6	20.0
2-Butanone (MEK)	Ave	0.9735	0.9626	0.0500	98.9	100	-1.1	50.0
Propionitrile	Ave	9.340	11.12		238	200	19.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505151/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.1745	0.1931		44.2	40.0	10.6	20.0
Chlorobromomethane	Ave	0.1293	0.1476		22.8	20.0	14.1	20.0
Methacrylonitrile	Ave	0.1226	0.1349		220	200	10.0	20.0
Tetrahydrofuran	Ave	0.2244	0.2422		43.2	40.0	7.9	20.0
Chloroform	Ave	0.4676	0.4763	0.2000	20.4	20.0	1.9	20.0
1,1,1-Trichloroethane	Ave	0.3853	0.3823	0.1000	19.8	20.0	-0.8	20.0
Cyclohexane	Ave	0.3812	0.4315	0.1000	22.6	20.0	13.2	50.0
Carbon tetrachloride	Ave	0.2846	0.2878	0.1000	20.2	20.0	1.1	20.0
1,1-Dichloropropene	Ave	0.3510	0.3809		21.7	20.0	8.5	20.0
Isobutyl alcohol	Ave	2.491	2.923		587	500	17.3	50.0
Benzene	Ave	1.316	1.494	0.5000	22.7	20.0	13.6	20.0
1,2-Dichloroethane	Ave	0.3977	0.3902	0.1000	19.6	20.0	-1.9	20.0
Isopropyl acetate	Ave	0.1235	0.1363		22.1	20.0	10.4	20.0
Tert-amyl methyl ether	Ave	0.7432	0.7886		21.2	20.0	6.1	20.0
n-Heptane	Ave	0.4360	0.5190		23.8	20.0	19.0	20.0
n-Butanol	Ave	1.532	1.784		582	500	16.5	50.0
Trichloroethene	Ave	0.2913	0.2998	0.2000	20.6	20.0	2.9	20.0
Ethyl acrylate	Lin2		0.4292		18.1	20.0	-9.6	20.0
Methylcyclohexane	Ave	0.4405	0.5206	0.1000	23.6	20.0	18.2	50.0
1,2-Dichloropropane	Ave	0.3243	0.3447	0.1000	21.3	20.0	6.3	20.0
Dibromomethane	Ave	0.1700	0.1731		20.4	20.0	1.9	20.0
1,4-Dioxane	Ave	0.8801	0.9904		450	400	12.5	50.0
Methyl methacrylate	Ave	0.0745	0.0777		41.7	40.0	4.3	20.0
n-Propyl acetate	Ave	0.5236	0.5261		20.1	20.0	0.5	20.0
Dichlorobromomethane	Ave	0.3002	0.2878	0.2000	19.2	20.0	-4.1	20.0
2-Nitropropane	Qua2		0.0615		36.3	40.0	-9.4	20.0
2-Chloroethyl vinyl ether	Ave	0.2304	0.2404		20.9	20.0	4.3	20.0
Epichlorohydrin	Ave	0.1984	0.2399		484	400	20.9*	20.0
cis-1,3-Dichloropropene	Ave	0.4854	0.5670	0.2000	23.4	20.0	16.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.772	1.971	0.0500	111	100	11.2	50.0
Toluene	Ave	1.348	1.559	0.4000	23.1	20.0	15.7	20.0
trans-1,3-Dichloropropene	Ave	0.4206	0.4760	0.1000	22.6	20.0	13.2	50.0
Ethyl methacrylate	Ave	0.3679	0.4231		23.0	20.0	15.0	20.0
1,1,2-Trichloroethane	Ave	0.2361	0.2723	0.1000	23.1	20.0	15.4	20.0
Tetrachloroethene	Ave	0.3686	0.4225	0.2000	22.9	20.0	14.6	20.0
1,3-Dichloropropane	Ave	0.4963	0.5713		23.0	20.0	15.1	20.0
2-Hexanone	Ave	1.261	1.348	0.0500	107	100	6.8	50.0
Chlorodibromomethane	Qua2		0.2650	0.1000	20.9	20.0	4.4	50.0
n-Butyl acetate	Ave	0.5968	0.6852		23.0	20.0	14.8	20.0
Ethylene Dibromide	Ave	0.3011	0.3407	0.1000	22.6	20.0	13.2	20.0
Chlorobenzene	Ave	0.8956	1.015	0.5000	22.7	20.0	13.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505151/2 Calibration Date: 03/22/2018 07:07

Instrument ID: CVOAMS15 Calib Start Date: 03/13/2018 09:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2018 14:00

Lab File ID: T04906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1,2-Tetrachloroethane	Ave	0.2782	0.3033		21.8	20.0	9.0	20.0
Ethylbenzene	Ave	0.4782	0.5514	0.1000	23.1	20.0	15.3	20.0
m-Xylene & p-Xylene	Ave	0.5794	0.6798	0.1000	23.5	20.0	17.3	20.0
o-Xylene	Ave	0.5533	0.6477	0.3000	23.4	20.0	17.1	20.0
Styrene	Ave	0.8778	1.041	0.3000	23.7	20.0	18.6	20.0
n-Butyl acrylate	Lin2		0.2553		22.1	20.0	10.6	20.0
Bromoform	Qua2		0.1611	0.1000	20.3	20.0	1.7	20.0
Amyl acetate (mixed isomers)	Lin2		1.441		22.0	20.0	10.1	20.0
Isopropylbenzene	Ave	1.430	1.657	0.1000	23.2	20.0	15.9	20.0
Bromobenzene	Ave	0.7072	0.7942		22.5	20.0	12.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6491	0.7599	0.3000	23.4	20.0	17.1	20.0
1,2,3-Trichloropropane	Ave	0.2115	0.2368		22.4	20.0	11.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2139	0.2403		22.5	20.0	12.3	20.0
N-Propylbenzene	Ave	3.168	3.786		23.9	20.0	19.5	20.0
2-Chlorotoluene	Ave	1.858	2.149		23.1	20.0	15.7	20.0
4-Ethyltoluene	Ave	2.646	3.119		23.6	20.0	17.8	20.0
4-Chlorotoluene	Ave	1.803	2.113		23.4	20.0	17.1	20.0
1,3,5-Trimethylbenzene	Ave	2.116	2.476		23.4	20.0	17.0	20.0
Butyl Methacrylate	Lin2		0.7810		21.7	20.0	8.3	20.0
tert-Butylbenzene	Ave	1.891	2.211		23.4	20.0	16.9	20.0
1,2,4-Trimethylbenzene	Ave	2.182	2.553		23.4	20.0	17.0	20.0
sec-Butylbenzene	Ave	2.794	3.375		24.2	20.0	20.8*	20.0
1,3-Dichlorobenzene	Ave	1.284	1.487	0.6000	23.1	20.0	15.7	20.0
1,4-Dichlorobenzene	Ave	1.242	1.475	0.5000	23.7	20.0	18.7	20.0
4-Isopropyltoluene	Ave	2.249	2.770		24.6	20.0	23.2*	20.0
Benzyl chloride	Qua2		1.226		23.1	20.0	15.5	50.0
Indan	Ave	2.090	2.502		23.9	20.0	19.7	20.0
1,2-Dichlorobenzene	Ave	1.177	1.377	0.4000	23.4	20.0	17.0	20.0
p-Diethylbenzene	Ave	1.237	1.508		24.4	20.0	21.9*	20.0
n-Butylbenzene	Ave	1.184	1.469		24.8	20.0	24.0*	20.0
1,2-Dibromo-3-Chloropropane	Qua2		0.1049	0.0500	21.2	20.0	5.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.945	2.383		24.5	20.0	22.5*	20.0
1,3,5-Trichlorobenzene	Ave	0.8754	1.057		24.1	20.0	20.7*	20.0
1,2,4-Trichlorobenzene	Ave	0.7560	0.9092	0.2000	24.1	20.0	20.3*	20.0
Hexachlorobutadiene	Ave	0.3287	0.3988		24.3	20.0	21.3*	20.0
Naphthalene	Ave	1.841	2.249		24.4	20.0	22.2	50.0
1,2,3-Trichlorobenzene	Ave	0.6731	0.8149		24.2	20.0	21.1*	20.0
Dibromofluoromethane (Surr)	Ave	0.2513	0.2358		46.9	50.0	-6.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2863	0.2550		44.5	50.0	-10.9	20.0
Toluene-d8 (Surr)	Ave	1.156	1.153		49.9	50.0	-0.2	20.0
4-Bromofluorobenzene	Ave	0.3755	0.3637		48.4	50.0	-3.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04906.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 07:07:12 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:00:15 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK023

First Level Reviewer: desais Date: 22-Mar-2018 08:11:16

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.913	0.913	0.000	85	13916	20.0	22.7	
2	Dichlorodifluoromethane	85	0.934	0.934	0.000	88	63175	20.0	17.0	
3	Chloromethane	50	1.039	1.039	0.000	89	49528	20.0	21.2	
4	Vinyl chloride	62	1.096	1.096	0.000	84	43478	20.0	21.2	
5	Butadiene	54	1.117	1.117	0.000	96	43271	20.0	20.2	
6	Bromomethane	94	1.274	1.274	0.000	96	5412	20.0	13.0	
7	Chloroethane	64	1.337	1.337	0.000	96	20405	20.0	21.4	
8	Dichlorofluoromethane	67	1.458	1.458	0.000	90	72283	20.0	22.2	
9	Trichlorofluoromethane	101	1.489	1.489	0.000	87	80845	20.0	16.9	
10	Pentane	72	1.537	1.537	0.000	96	18893	40.0	7.92	
11	Ethanol	46	1.631	1.631	0.000	98	16939	800.0	572.4	
12	Ethyl ether	59	1.673	1.673	0.000	62	61642	20.0	21.9	
13	1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	81	51626	20.0	22.0	
14	2-Methyl-1,3-butadiene	53	1.678	1.678	0.000	86	59688	20.0	21.9	
15	Acrolein	56	1.746	1.746	0.000	96	11100	40.0	23.8	
16	1,1-Dichloroethene	96	1.804	1.804	0.000	88	58155	20.0	21.3	
17	1,1,2-Trichloro-1,2,2-trif	101	1.809	1.809	0.000	71	57311	20.0	23.1	
18	Acetone	43	1.846	1.846	0.000	87	113124	100.0	88.5	
19	Iodomethane	142	1.898	1.898	0.000	95	22231	20.0	9.68	
21	Carbon disulfide	76	1.940	1.940	0.000	99	129075	20.0	18.7	
20	Isopropyl alcohol	45	1.951	1.951	0.000	46	48056	200.0	219.8	
24	Acetonitrile	40	2.024	2.024	0.000	89	67353	200.0	215.4	
22	3-Chloro-1-propene	76	2.035	2.035	0.000	90	41719	20.0	22.7	
23	Methyl acetate	43	2.056	2.056	0.000	98	302080	100.0	106.6	
25	Cyclopentene	67	2.092	2.092	0.000	95	145786	20.0	21.5	
26	Methylene Chloride	84	2.119	2.119	0.000	92	67864	20.0	20.5	
* 27	TBA-d9 (IS)	66	2.161	2.161	0.000	98	55921	1000.0	1000.0	
28	2-Methyl-2-propanol	59	2.213	2.213	0.000	98	78907	200.0	227.1	
29	Acrylonitrile	53	2.286	2.286	0.000	95	308401	200.0	222.9	
30	trans-1,2-Dichloroethene	96	2.302	2.302	0.000	85	62665	20.0	21.5	
31	Methyl tert-butyl ether	73	2.313	2.313	0.000	96	165023	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.507	2.507	0.000	93	111979	20.0	24.6	
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	124144	20.0	20.3	
34 Vinyl acetate	86	2.653	2.653	0.000	100	27777	40.0	51.6	
35 Isopropyl ether	45	2.674	2.674	0.000	90	251871	20.0	22.0	
36 2-Chloro-1,3-butadiene	88	2.674	2.674	0.000	64	61169	20.0	22.4	
37 Tert-butyl ethyl ether	59	2.958	2.958	0.000	88	220166	20.0	20.7	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	469161	250.0	250.0	
39 2,2-Dichloropropane	97	3.057	3.057	0.000	70	21101	20.0	22.6	
40 cis-1,2-Dichloroethene	96	3.057	3.057	0.000	85	73461	20.0	21.3	
41 2-Butanone (MEK)	43	3.078	3.078	0.000	99	180644	100.0	98.9	
42 Propionitrile	54	3.125	3.125	0.000	98	124377	200.0	238.1	
43 Ethyl acetate	70	3.141	3.141	0.000	99	14493	40.0	44.2	
44 Methyl acrylate	55	3.162	3.162	0.000	88	80182	20.0	20.2	
45 Methacrylonitrile	67	3.256	3.256	0.000	95	288899	200.0	220.0	
46 Chlorobromomethane	128	3.256	3.256	0.000	42	31593	20.0	22.8	
47 Tetrahydrofuran	72	3.309	3.309	0.000	87	18184	40.0	43.2	
48 Chloroform	83	3.330	3.330	0.000	91	101975	20.0	20.4	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	126223	50.0	46.9	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	86	81850	20.0	19.8	
51 Cyclohexane	84	3.534	3.534	0.000	95	92379	20.0	22.6	
52 Carbon tetrachloride	117	3.634	3.634	0.000	72	61626	20.0	20.2	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	90	81554	20.0	21.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.770	3.770	0.000	85	136512	50.0	44.5	
54 Isobutyl alcohol	43	3.791	3.791	0.000	69	81727	500.0	586.6	
56 Benzene	78	3.823	3.823	0.000	98	251929	20.0	22.7	
57 1,2-Dichloroethane	62	3.844	3.844	0.000	66	83552	20.0	19.6	
58 Isooctane	57	3.922	3.922	0.000	99	262301	20.0	24.1	
59 Isopropyl acetate	61	3.933	3.933	0.000	84	29186	20.0	22.1	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	85	168849	20.0	21.2	
* 61 Fluorobenzene	96	4.101	4.101	0.000	98	535278	50.0	50.0	
62 n-Heptane	43	4.111	4.111	0.000	49	111114	20.0	23.8	
63 n-Butanol	56	4.462	4.462	0.000	90	49884	500.0	582.3	
64 Trichloroethene	95	4.473	4.473	0.000	94	64190	20.0	20.6	
65 Ethyl acrylate	55	4.625	4.625	0.000	98	91902	20.0	18.1	
66 Methylcyclohexane	83	4.672	4.672	0.000	91	111456	20.0	23.6	
67 1,2-Dichloropropane	63	4.703	4.703	0.000	87	73801	20.0	21.3	
* 68 1,4-Dioxane-d8	96	4.824	4.824	0.000	30	39707	1000.0	1000.0	
69 Dibromomethane	93	4.829	4.829	0.000	95	37071	20.0	20.4	
71 Methyl methacrylate	100	4.882	4.882	0.000	96	33291	40.0	41.7	
70 1,4-Dioxane	88	4.882	4.882	0.000	31	15731	400.0	450.1	
72 n-Propyl acetate	43	4.966	4.966	0.000	99	112643	20.0	20.1	
73 Dichlorobromomethane	83	5.018	5.018	0.000	95	61614	20.0	19.2	
74 2-Nitropropane	41	5.291	5.291	0.000	96	26353	40.0	36.3	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	95	51470	20.0	20.9	
76 Epichlorohydrin	57	5.453	5.453	0.000	98	180052	400.0	483.7	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	90	95580	20.0	23.4	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	369815	100.0	111.2	
$ 79 Toluene-d8 (Surr)	98	5.873	5.873	0.000	99	486032	50.0	49.9	
80 Toluene	91	5.957	5.957	0.000	93	262824	20.0	23.1	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	97	80233	20.0	22.6	
82 Ethyl methacrylate	69	6.444	6.444	0.000	94	71330	20.0	23.0	
83 1,1,2-Trichloroethane	83	6.491	6.491	0.000	92	45905	20.0	23.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.659	6.659	0.000	92	71217	20.0	22.9	
85 1,3-Dichloropropane	76	6.706	6.706	0.000	97	96308	20.0	23.0	
86 2-Hexanone	43	6.885	6.885	0.000	97	252949	100.0	106.8	
87 Chlorodibromomethane	129	7.005	7.005	0.000	96	44675	20.0	20.9	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	115503	20.0	23.0	
89 Ethylene Dibromide	107	7.131	7.131	0.000	90	57440	20.0	22.6	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	421435	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	95	171022	20.0	22.7	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.001	0.000	92	51130	20.0	21.8	
93 Ethylbenzene	106	8.059	8.059	0.000	98	92949	20.0	23.1	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	96	114593	20.0	23.5	
95 o-Xylene	106	8.840	8.840	0.000	93	109190	20.0	23.4	
96 Styrene	104	8.867	8.867	0.000	91	175506	20.0	23.7	
97 n-Butyl acrylate	73	8.919	8.919	0.000	96	43032	20.0	22.1	
98 Bromoform	173	9.097	9.097	0.000	97	27150	20.0	20.3	
99 Amyl acetate (mixed isomer	43	9.312	9.312	0.000	88	129163	20.0	22.0	
100 Isopropylbenzene	105	9.448	9.448	0.000	96	279285	20.0	23.2	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	153269	50.0	48.4	
102 Bromobenzene	156	9.842	9.842	0.000	94	71199	20.0	22.5	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	92	68128	20.0	23.4	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	90	21225	20.0	22.4	
105 trans-1,4-Dichloro-2-buten	53	10.057	10.057	0.000	77	21544	20.0	22.5	
106 N-Propylbenzene	91	10.114	10.114	0.000	99	339437	20.0	23.9	
107 2-Chlorotoluene	91	10.193	10.193	0.000	97	192637	20.0	23.1	
108 4-Ethyltoluene	105	10.314	10.314	0.000	98	279584	20.0	23.6	
109 4-Chlorotoluene	91	10.382	10.382	0.000	97	189399	20.0	23.4	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	93	221940	20.0	23.4	
111 Butyl Methacrylate	87	10.712	10.712	0.000	94	70018	20.0	21.7	
112 tert-Butylbenzene	119	10.948	10.948	0.000	92	198244	20.0	23.4	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	228867	20.0	23.4	
113 sec-Butylbenzene	105	11.310	11.310	0.000	99	302578	20.0	24.2	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	96	133264	20.0	23.1	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.504	0.000	95	224123	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	93	132231	20.0	23.7	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	248335	20.0	24.6	
135 1,2,3-Trimethylbenzene	105	11.651	11.651	0.000	99	225932	20.0	23.2	
119 Benzyl chloride	91	11.750	11.750	0.000	98	109937	20.0	23.1	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	91	224258	20.0	23.9	
121 1,2-Dichlorobenzene	146	12.018	12.018	0.000	96	123425	20.0	23.4	
122 p-Diethylbenzene	119	12.065	12.065	0.000	92	135168	20.0	24.4	
123 n-Butylbenzene	92	12.091	12.091	0.000	97	131663	20.0	24.8	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.925	0.000	70	9408	20.0	21.2	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	97	213637	20.0	24.5	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	97	94717	20.0	24.1	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	81511	20.0	24.1	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	77	35748	20.0	24.3	
129 Naphthalene	128	13.942	13.942	0.000	99	201650	20.0	24.4	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	93	73055	20.0	24.2	
S 131 1,2-Dichloroethene, Total	100				0		40.0	42.8	
S 132 Xylenes, Total	100				0		40.0	46.9	
S 136 1,3-Dichloropropene, Total	1				0		40.0	46.0	
S 133 Total BTEX	1				0		100.0	115.8	

Reagents:

GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 10:00:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04906.D

Injection Date: 22-Mar-2018 07:07:12 Instrument ID: CVOAMS15

Lims ID: CCVIS

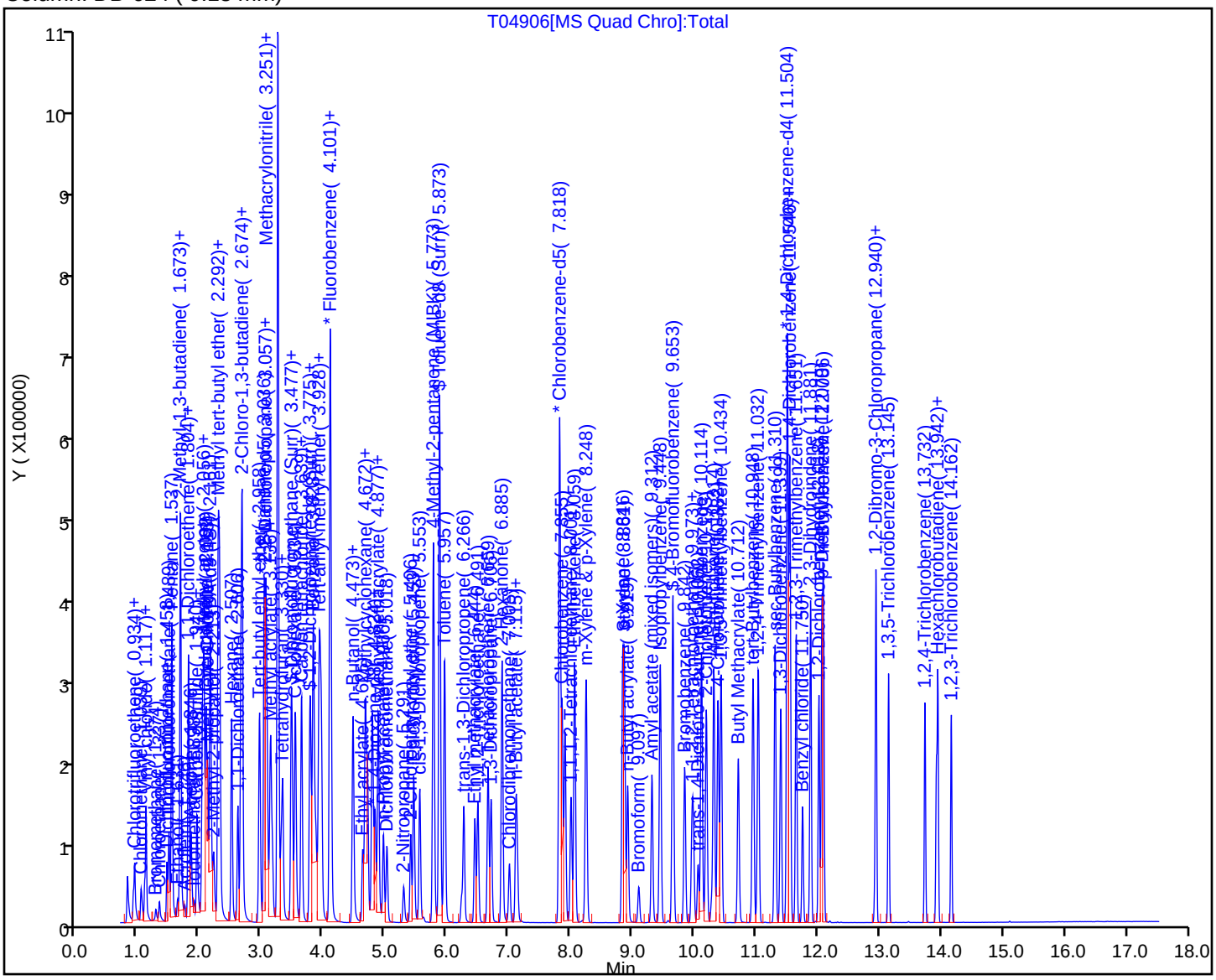
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-502604/13 Calibration Date: 03/10/2018 02:57

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80605.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0786	0.0680		17.3	20.0	-13.5	30.0
Dichlorodifluoromethane	Lin2		0.5312	0.1000	19.0	20.0	-4.8	30.0
Chloromethane	Ave	0.4017	0.4136	0.1000	20.6	20.0	3.0	30.0
Butadiene	Ave	0.3022	0.3294		21.8	20.0	9.0	30.0
Vinyl chloride	Ave	0.4248	0.4590	0.1000	21.6	20.0	8.1	30.0
Bromomethane	Ave	0.3635	0.3854	0.1000	21.2	20.0	6.0	30.0
Chloroethane	Ave	0.2116	0.2342	0.1000	22.1	20.0	10.7	30.0
Dichlorofluoromethane	Ave	0.6823	0.7387		21.7	20.0	8.3	30.0
Trichlorofluoromethane	Ave	0.6795	0.7733	0.1000	22.8	20.0	13.8	30.0
Pentane	Ave	1.710	1.651		38.6	40.0	-3.5	30.0
Ethanol	Ave	0.0353	0.0321		728	800	-9.0	30.0
Ethyl ether	Ave	0.2150	0.2080		19.3	20.0	-3.3	30.0
2-Methyl-1,3-butadiene	Lin2		0.2523		20.6	20.0	3.1	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3237	0.3441		21.3	20.0	6.3	30.0
Acrolein	Ave	1.258	1.245		297	301	-1.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.4133	0.1000	19.3	20.0	-3.5	30.0
1,1-Dichloroethene	Lin2		0.3270	0.1000	19.5	20.0	-2.7	30.0
Acetone	QuaF		1.107	0.0500	94.1	100	-5.9	30.0
Iodomethane	Ave	0.7182	0.7495		20.9	20.0	4.3	30.0
Isopropyl alcohol	Ave	0.6290	0.6261		199	200	-0.5	30.0
Carbon disulfide	Ave	1.089	1.088	0.1000	20.0	20.0	-0.1	30.0
Allyl chloride	Ave	0.1808	0.1854		20.5	20.0	2.6	30.0
Methyl acetate	Ave	0.1746	0.1936	0.1000	111	100	10.9	30.0
Cyclopentene	Lin2		0.7394		21.5	20.0	7.3	30.0
Acetonitrile	Ave	1.208	1.099		182	200	-9.0	30.0
Methylene Chloride	Ave	0.3808	0.3764	0.1000	19.8	20.0	-1.1	30.0
2-Methyl-2-propanol	Ave	1.432	1.322		185	200	-7.7	30.0
Methyl tert-butyl ether	Ave	0.9313	0.9904	0.1000	21.3	20.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	0.3358	0.3670	0.1000	21.9	20.0	9.3	30.0
Acrylonitrile	Ave	0.0918	0.1014		221	200	10.5	30.0
Hexane	Ave	0.2158	0.2177		20.2	20.0	0.9	30.0
Isopropyl ether	Ave	0.8317	0.8825		21.2	20.0	6.1	30.0
1,1-Dichloroethane	Ave	0.5296	0.5796	0.2000	21.9	20.0	9.4	30.0
Vinyl acetate	Ave	1.851	1.664		36.0	40.0	-10.1	30.0
2-Chloro-1,3-butadiene	Ave	0.2684	0.2991		22.3	20.0	11.4	30.0
Tert-butyl ethyl ether	Ave	0.9038	0.9550		21.1	20.0	5.7	30.0
2,2-Dichloropropane	Ave	0.1790	0.1775		19.8	20.0	-0.8	30.0
2-Butanone (MEK)	Ave	0.4515	0.4349	0.0500	96.3	100	-3.7	30.0
cis-1,2-Dichloroethene	Ave	0.3969	0.4194	0.1000	21.1	20.0	5.7	30.0
Ethyl acetate	Ave	0.3870	0.3815		39.4	40.0	-1.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-502604/13 Calibration Date: 03/10/2018 02:57

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80605.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2218	0.2281		20.6	20.0	2.8	30.0
Propionitrile	Ave	1.455	1.454		200	200	-0.0	30.0
Tetrahydrofuran	Ave	0.5459	0.5630		41.3	40.0	3.1	30.0
Chlorobromomethane	Ave	0.2112	0.2216		21.0	20.0	4.9	30.0
Methacrylonitrile	Ave	0.1092	0.1181		216	200	8.1	30.0
Chloroform	Ave	0.6311	0.6839	0.2000	21.7	20.0	8.4	30.0
Cyclohexane	Lin2		0.5181	0.1000	20.3	20.0	1.4	30.0
1,1,1-Trichloroethane	Ave	0.5996	0.6455	0.1000	21.5	20.0	7.6	30.0
Carbon tetrachloride	Ave	0.5356	0.6084	0.1000	22.7	20.0	13.6	30.0
1,1-Dichloropropene	Ave	0.4091	0.4467		21.8	20.0	9.2	30.0
Isobutyl alcohol	Lin2		0.0414		404	500	-19.2	30.0
Benzene	Ave	1.426	1.590	0.5000	22.3	20.0	11.5	30.0
Isopropyl acetate	Ave	0.8406	0.8861		21.1	20.0	5.4	30.0
Tert-amyl methyl ether	Ave	0.9760	1.064		21.8	20.0	9.0	30.0
1,2-Dichloroethane	Ave	0.4529	0.4538	0.1000	20.0	20.0	0.2	30.0
n-Heptane	Lin2		0.2365		20.7	20.0	3.6	30.0
n-Butanol	Ave	0.2873	0.2783		484	500	-3.1	30.0
Trichloroethene	Ave	0.3474	0.3781	0.2000	21.8	20.0	8.8	30.0
Methylcyclohexane	Lin2		0.6241	0.1000	20.5	20.0	2.5	30.0
Ethyl acrylate	Ave	0.1732	0.1831		21.2	20.0	5.8	30.0
1,2-Dichloropropane	Ave	0.2853	0.2944	0.1000	20.6	20.0	3.2	30.0
Methyl methacrylate	Ave	0.2165	0.2191		40.5	40.0	1.2	30.0
1,4-Dioxane	Ave	1.785	1.678		376	400	-6.0	30.0
n-Propyl acetate	Ave	0.3184	0.3425		21.5	20.0	7.6	30.0
Dibromomethane	Ave	0.2169	0.2275		21.0	20.0	4.9	30.0
Dichlorobromomethane	Ave	0.4474	0.4694	0.2000	21.0	20.0	4.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1250	0.1284		20.6	20.0	2.8	30.0
2-Nitropropane	Ave	0.0746	0.0717		38.4	40.0	-3.9	30.0
Epichlorohydrin	Ave	0.3422	0.3309		19.3	20.0	-3.3	30.0
cis-1,3-Dichloropropene	Ave	0.5750	0.5967	0.2000	20.8	20.0	3.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	3.087	3.348	0.0500	108	100	8.4	30.0
Toluene	Ave	1.679	1.800	0.4000	21.4	20.0	7.2	30.0
trans-1,3-Dichloropropene	Ave	0.5026	0.5112	0.1000	20.3	20.0	1.7	30.0
Ethyl methacrylate	Ave	0.3847	0.4119		21.4	20.0	7.1	30.0
1,1,2-Trichloroethane	Ave	0.2795	0.2928	0.1000	21.0	20.0	4.8	30.0
Tetrachloroethene	Ave	0.4897	0.5303	0.2000	21.7	20.0	8.3	30.0
1,3-Dichloropropane	Ave	0.4962	0.5200		21.0	20.0	4.8	30.0
2-Hexanone	Ave	1.998	2.068	0.0500	104	100	3.5	30.0
n-Butyl acetate	Ave	0.4017	0.4382		21.8	20.0	9.1	30.0
Chlorodibromomethane	Ave	0.4663	0.4749	0.1000	20.4	20.0	1.8	30.0
Ethylene Dibromide	Ave	0.3649	0.3786	0.1000	20.8	20.0	3.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-502604/13 Calibration Date: 03/10/2018 02:57

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80605.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.144	1.200	0.5000	21.0	20.0	4.9	30.0
Ethylbenzene	Ave	0.5736	0.6270	0.1000	21.9	20.0	9.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4858	0.5488		22.6	20.0	13.0	30.0
m-Xylene & p-Xylene	Ave	0.7022	0.7699	0.1000	21.9	20.0	9.6	30.0
n-Butyl acrylate	Ave	0.2289	0.2492		21.8	20.0	8.9	30.0
o-Xylene	Ave	0.7269	0.8172	0.3000	22.5	20.0	12.4	30.0
Styrene	Ave	1.163	1.249	0.3000	21.5	20.0	7.4	30.0
Amyl acetate (mixed isomers)	Ave	0.7868	0.8552		21.7	20.0	8.7	30.0
Bromoform	Ave	0.3225	0.3426	0.1000	21.2	20.0	6.2	30.0
Isopropylbenzene	Lin2		2.356	0.1000	21.5	20.0	7.7	30.0
Bromobenzene	Ave	0.9313	0.996		21.4	20.0	6.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7894	0.8829	0.3000	22.4	20.0	11.8	30.0
N-Propylbenzene	Ave	3.800	4.281		22.5	20.0	12.6	30.0
1,2,3-Trichloropropane	Ave	0.2567	0.2566		20.0	20.0	-0.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1952		20.7	20.0	3.4	30.0
2-Chlorotoluene	Ave	2.701	2.937		21.7	20.0	8.7	30.0
4-Ethyltoluene	Ave	3.378	3.788		22.4	20.0	12.1	30.0
1,3,5-Trimethylbenzene	Ave	3.004	3.338		22.2	20.0	11.1	30.0
4-Chlorotoluene	Ave	2.288	2.518		22.0	20.0	10.0	30.0
Butyl Methacrylate	Ave	0.7951	0.8775		22.1	20.0	10.4	30.0
tert-Butylbenzene	Lin2		2.693		20.2	20.0	1.0	30.0
1,2,4-Trimethylbenzene	Ave	3.092	3.454		22.3	20.0	11.7	30.0
sec-Butylbenzene	Lin2		4.323		21.1	20.0	5.4	30.0
4-Isopropyltoluene	Lin2		3.831		20.9	20.0	4.5	30.0
1,3-Dichlorobenzene	Ave	1.797	1.987	0.6000	22.1	20.0	10.6	30.0
1,4-Dichlorobenzene	Ave	1.805	1.977	0.5000	21.9	20.0	9.5	30.0
Benzyl chloride	Ave	1.412	1.368		19.4	20.0	-3.1	30.0
Indan	Ave	3.254	3.600		22.1	20.0	10.6	30.0
p-Diethylbenzene	Ave	1.911	2.268		23.7	20.0	18.7	30.0
n-Butylbenzene	Lin2		1.903		21.9	20.0	9.5	30.0
1,2-Dichlorobenzene	Ave	1.835	2.044	0.4000	22.3	20.0	11.4	30.0
1,2,4,5-Tetramethylbenzene	Ave	3.423	3.858		22.5	20.0	12.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1807	0.1944	0.0500	21.5	20.0	7.6	30.0
1,3,5-Trichlorobenzene	Ave	1.576	1.726		21.9	20.0	9.5	30.0
1,2,4-Trichlorobenzene	Ave	1.539	1.743	0.2000	22.6	20.0	13.2	30.0
Hexachlorobutadiene	Lin2		0.8557		21.8	20.0	9.0	30.0
Naphthalene	Ave	3.710	4.232		22.8	20.0	14.1	30.0
1,2,3-Trichlorobenzene	Ave	1.574	1.771		22.5	20.0	12.5	30.0
Dibromofluoromethane (Surr)	Ave	0.3442	0.3658		53.1	50.0	6.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3404	0.3560		52.3	50.0	4.6	30.0
Toluene-d8 (Surr)	Ave	1.445	1.519		52.5	50.0	5.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-502604/13 Calibration Date: 03/10/2018 02:57

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80605.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4923	0.5111		51.9	50.0	3.8	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80605.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Mar-2018 02:57:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0068588-013
Operator ID: Instrument ID: CVOAMS9
Sublist:

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 17:22:50 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: delpolitov Date: 11-Mar-2018 17:22:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.608	1.596	0.012	64	13440	20.0	17.3	
2 Dichlorodifluoromethane	85	1.632	1.638	-0.006	99	105025	20.0	19.0	
3 Chloromethane	50	1.803	1.803	0.000	99	81766	20.0	20.6	
5 Butadiene	54	1.913	1.913	0.000	98	65130	20.0	21.8	
4 Vinyl chloride	62	1.919	1.913	0.006	95	90751	20.0	21.6	
6 Bromomethane	94	2.212	2.212	0.000	98	76185	20.0	21.2	
7 Chloroethane	64	2.279	2.279	0.000	99	46304	20.0	22.1	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	96	146040	20.0	21.7	
8 Trichlorofluoromethane	101	2.486	2.486	0.000	72	152878	20.0	22.8	
10 Pentane	72	2.498	2.498	0.000	96	19393	40.0	38.6	
12 Ethanol	46	2.693	2.687	0.006	69	7552	800.0	728.4	M
11 Ethyl ether	59	2.699	2.699	0.000	94	41116	20.0	19.3	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	96	49876	20.0	20.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.760	2.760	0.000	90	68021	20.0	21.3	
15 Acrolein	56	2.882	2.882	0.000	98	109908	300.5	297.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.894	2.894	0.000	97	81701	20.0	19.3	
17 1,1-Dichloroethene	96	2.925	2.919	0.006	97	64643	20.0	19.5	
18 Acetone	43	3.010	3.004	0.006	85	89386	100.0	94.1	
19 Iodomethane	142	3.083	3.083	0.000	99	148167	20.0	20.9	
22 Isopropyl alcohol	45	3.096	3.083	0.013	1	36781	200.0	199.1	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	215153	20.0	20.0	
21 3-Chloro-1-propene	76	3.248	3.242	0.006	93	36652	20.0	20.5	
23 Methyl acetate	43	3.254	3.248	0.006	98	191395	100.0	110.9	
24 Cyclopentene	67	3.272	3.266	0.006	91	146182	20.0	21.5	
29 Acetonitrile	41	3.321	3.315	0.006	95	64569	200.0	182.0	
* 25 TBA-d9 (IS)	65	3.364	3.358	0.006	0	293732	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	85	74411	20.0	19.8	
27 2-Methyl-2-propanol	59	3.431	3.431	0.000	99	77688	200.0	184.7	
28 Methyl tert-butyl ether	73	3.535	3.534	0.001	95	195798	20.0	21.3	
30 trans-1,2-Dichloroethene	96	3.571	3.571	0.000	93	72549	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	92	200412	200.0	220.9	
32 Hexane	43	3.730	3.717	0.013	92	43037	20.0	20.2	
33 Isopropyl ether	45	3.931	3.931	0.000	94	174463	20.0	21.2	
35 Vinyl acetate	86	3.973	3.973	0.000	100	19552	40.0	36.0	
34 1,1-Dichloroethane	63	3.973	3.973	0.000	99	114581	20.0	21.9	
36 2-Chloro-1,3-butadiene	88	4.022	4.022	0.000	91	59122	20.0	22.3	
37 Tert-butyl ethyl ether	59	4.260	4.254	0.006	88	188803	20.0	21.1	
* 38 2-Butanone-d5	46	4.461	4.455	0.006	0	201938	250.0	250.0	
39 2,2-Dichloropropane	79	4.492	4.485	0.007	92	35092	20.0	19.8	
40 cis-1,2-Dichloroethene	96	4.510	4.504	0.006	97	82920	20.0	21.1	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	97	35128	100.0	96.3	
41 Ethyl acetate	70	4.510	4.510	0.000	92	12327	40.0	39.4	
44 Methyl acrylate	55	4.571	4.571	0.000	98	45091	20.0	20.6	
43 Propionitrile	54	4.650	4.650	0.000	97	85409	200.0	199.8	
46 Chlorobromomethane	128	4.742	4.735	0.007	69	43803	20.0	21.0	
45 Tetrahydrofuran	72	4.736	4.735	0.001	59	18189	40.0	41.3	
47 Methacrylonitrile	67	4.754	4.754	0.000	91	233426	200.0	216.2	
48 Chloroform	83	4.784	4.784	0.000	99	135210	20.0	21.7	
49 Cyclohexane	84	4.931	4.937	-0.006	87	102427	20.0	20.3	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	97	180784	50.0	53.1	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	96	127604	20.0	21.5	
52 Carbon tetrachloride	117	5.065	5.065	0.000	97	120269	20.0	22.7	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	95	88314	20.0	21.8	
56 Isobutyl alcohol	74	5.199	5.193	0.006	96	6081	500.0	404.1	
54 Benzene	78	5.290	5.290	0.000	95	254533	20.0	22.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.309	5.302	0.007	0	175935	50.0	52.3	
57 Isopropyl acetate	43	5.333	5.327	0.006	95	175186	20.0	21.1	
58 Tert-amyl methyl ether	73	5.345	5.345	0.000	94	210401	20.0	21.8	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	97	89724	20.0	20.0	
60 n-Heptane	57	5.437	5.430	0.007	86	46763	20.0	20.7	
* 61 Fluorobenzene	96	5.583	5.577	0.006	99	494244	50.0	50.0	
62 n-Butanol	56	5.869	5.863	0.006	90	40879	500.0	484.4	
63 Trichloroethene	95	5.943	5.943	0.001	97	74739	20.0	21.8	
64 Ethyl acrylate	56	6.077	6.064	0.013	76	36204	20.0	21.2	a
65 Methylcyclohexane	83	6.071	6.071	0.000	93	123376	20.0	20.5	
66 1,2-Dichloropropane	63	6.229	6.235	-0.006	88	58202	20.0	20.6	
* 67 1,4-Dioxane-d8	96	6.290	6.284	0.006	0	23126	1000.0	1000.0	
68 Methyl methacrylate	41	6.290	6.290	0.000	84	86627	40.0	40.5	
70 n-Propyl acetate	43	6.345	6.345	0.000	97	67711	20.0	21.5	
69 1,4-Dioxane	88	6.333	6.345	-0.012	82	15523	400.0	376.0	
71 Dibromomethane	93	6.369	6.369	0.000	95	44985	20.0	21.0	
72 Dichlorobromomethane	83	6.516	6.516	0.000	99	92796	20.0	21.0	
74 2-Nitropropane	41	6.851	6.845	0.006	86	28342	40.0	38.4	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	67	25385	20.0	20.6	
75 Epichlorohydrin	57	6.967	6.955	0.013	90	5346	20.0	19.3	
76 cis-1,3-Dichloropropene	75	7.022	7.015	0.007	92	95543	20.0	20.8	
77 4-Methyl-2-pentanone (MIBK	43	7.174	7.168	0.006	95	270415	100.0	108.4	
$ 78 Toluene-d8 (Surr)	98	7.266	7.265	0.001	98	608080	50.0	52.5	
79 Toluene	91	7.345	7.345	0.000	91	288221	20.0	21.4	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	97	81849	20.0	20.3	
81 Ethyl methacrylate	69	7.704	7.704	0.000	87	65947	20.0	21.4	
82 1,1,2-Trichloroethane	83	7.918	7.912	0.006	94	46890	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.967	7.966	0.001	98	84913	20.0	21.7	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	91	83268	20.0	21.0	
85 2-Hexanone	43	8.174	8.174	0.000	96	167057	100.0	103.5	
86 n-Butyl acetate	43	8.284	8.284	0.000	99	70161	20.0	21.8	
87 Chlorodibromomethane	129	8.363	8.369	-0.006	97	76049	20.0	20.4	
88 Ethylene Dibromide	107	8.527	8.527	0.000	99	60627	20.0	20.8	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	83	400313	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	97	192198	20.0	21.0	
92 Ethylbenzene	106	9.198	9.198	0.000	98	100404	20.0	21.9	
91 1,1,1,2-Tetrachloroethane	131	9.222	9.222	0.000	93	87870	20.0	22.6	
93 m-Xylene & p-Xylene	106	9.350	9.350	0.000	0	123273	20.0	21.9	
94 n-Butyl acrylate	73	9.783	9.777	0.006	97	39899	20.0	21.8	
95 o-Xylene	106	9.814	9.814	0.000	92	130849	20.0	22.5	
96 Styrene	104	9.844	9.844	0.000	95	200024	20.0	21.5	
97 Amyl acetate (mixed isomer	43	10.027	10.033	-0.006	93	81771	20.0	21.7	
98 Bromoform	173	10.082	10.082	0.000	97	54852	20.0	21.2	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	377284	20.0	21.5	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	96	204607	50.0	51.9	
101 Bromobenzene	156	10.564	10.564	0.000	89	95208	20.0	21.4	
102 1,1,2,2-Tetrachloroethane	83	10.594	10.600	-0.006	98	84420	20.0	22.4	
103 N-Propylbenzene	91	10.625	10.625	0.001	99	409290	20.0	22.5	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	97	24537	20.0	20.0	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	86	18659	20.0	20.7	
106 2-Chlorotoluene	91	10.740	10.740	0.000	89	280799	20.0	21.7	
107 4-Ethyltoluene	105	10.740	10.740	0.000	91	362152	20.0	22.4	
108 1,3,5-Trimethylbenzene	105	10.808	10.807	0.001	93	319170	20.0	22.2	
109 4-Chlorotoluene	91	10.850	10.856	-0.006	96	240714	20.0	22.0	
110 Butyl Methacrylate	87	10.893	10.899	-0.006	89	83897	20.0	22.1	
111 tert-Butylbenzene	119	11.100	11.100	0.000	95	257524	20.0	20.2	
112 1,2,4-Trimethylbenzene	105	11.161	11.167	-0.006	96	330261	20.0	22.3	
113 sec-Butylbenzene	105	11.307	11.307	0.000	100	413284	20.0	21.1	
114 4-Isopropyltoluene	119	11.435	11.435	0.000	98	366275	20.0	20.9	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	99	189992	20.0	22.1	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	92	239030	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.533	11.539	-0.006	96	189026	20.0	21.9	
118 Benzyl chloride	91	11.667	11.667	0.000	99	130837	20.0	19.4	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	93	344178	20.0	22.1	
120 p-Diethylbenzene	119	11.771	11.777	-0.006	95	216890	20.0	23.7	
121 n-Butylbenzene	92	11.795	11.795	0.000	98	181976	20.0	21.9	
122 1,2-Dichlorobenzene	146	11.862	11.862	0.000	98	195460	20.0	22.3	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	96	368882	20.0	22.5	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	92	18587	20.0	21.5	
125 1,3,5-Trichlorobenzene	180	12.643	12.642	0.001	97	165022	20.0	21.9	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	95	166640	20.0	22.6	
127 Hexachlorobutadiene	225	13.216	13.215	0.001	96	81814	20.0	21.8	
128 Naphthalene	128	13.331	13.331	0.000	99	404627	20.0	22.8	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	96	169352	20.0	22.5	
S 130 1,2-Dichloroethene, Total	100				0		40.0	43.0	
S 131 Xylenes, Total	100				0		40.0	44.4	
S 132 Total BTEX	1				0		100.0	110.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 SP_00079	Amount Added:	2.00	Units: uL	
ACROLEIN SP_00082	Amount Added:	3.00	Units: uL	
GAS C SP_00241	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Mar-2018 17:22:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80605.D

Injection Date: 10-Mar-2018 02:57:30 Instrument ID: CVOAMS9 Operator ID:

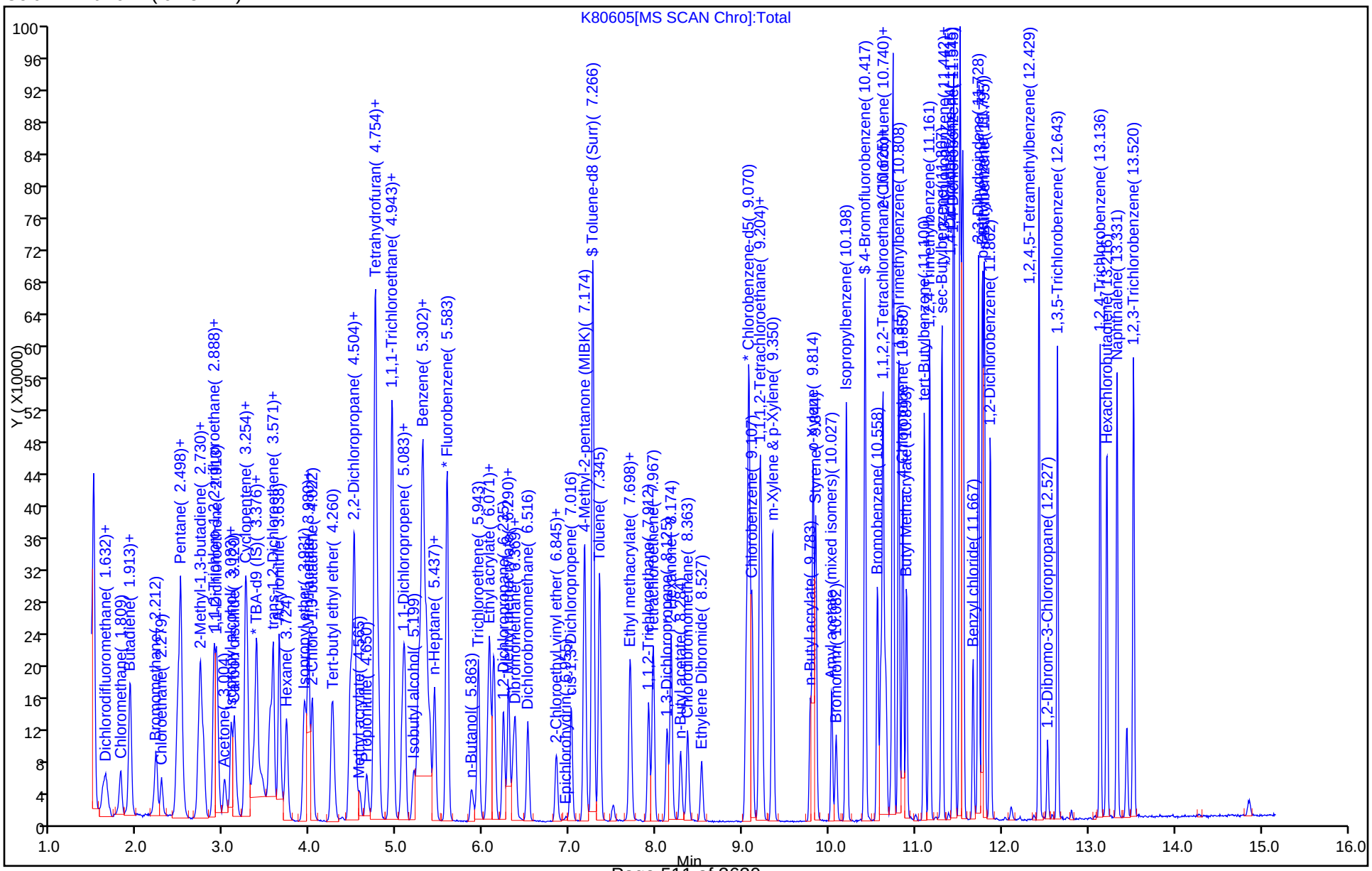
Lims ID: ICV Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

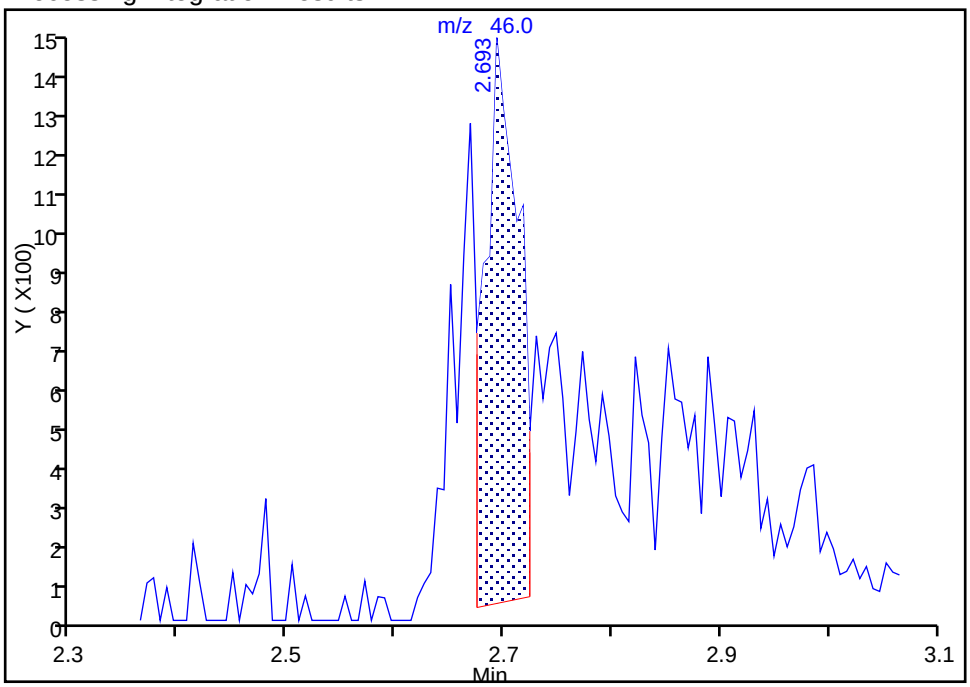
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80605.D
Injection Date: 10-Mar-2018 02:57:30 Instrument ID: CVOAMS9
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

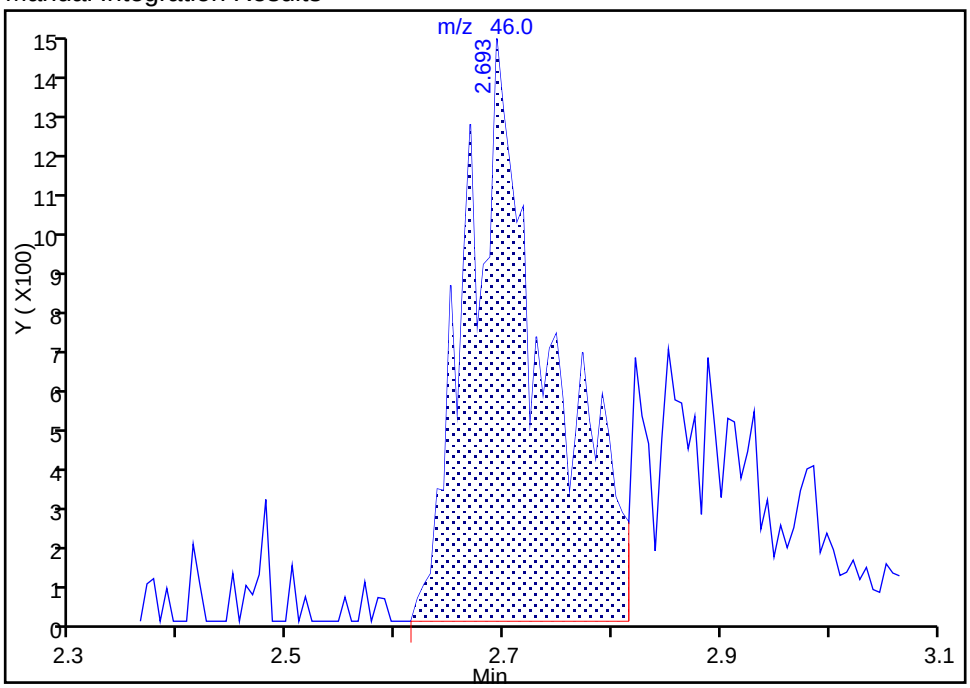
Processing Integration Results

RT: 2.69
Area: 3089
Amount: 297.9330
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 7552
Amount: 728.3879
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 17:20:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

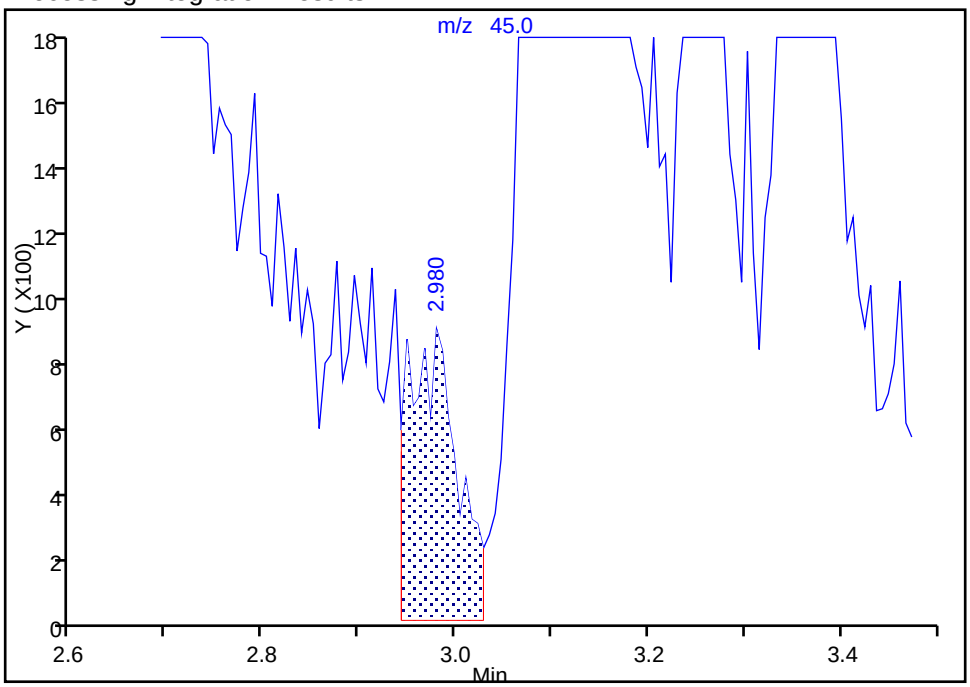
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80605.D
Injection Date: 10-Mar-2018 02:57:30 Instrument ID: CVOAMS9
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

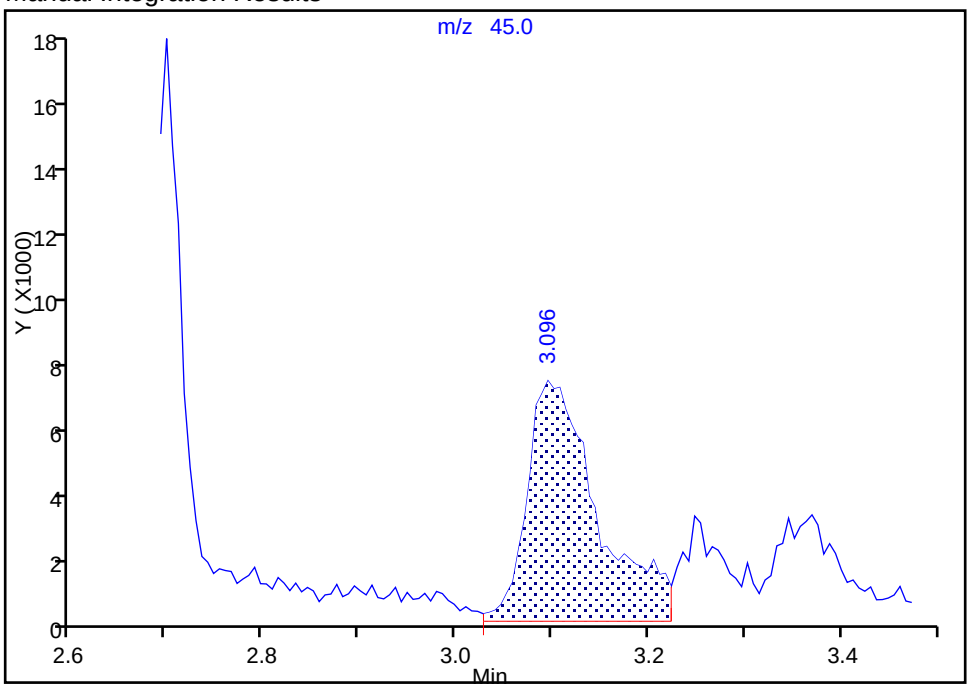
Processing Integration Results

RT: 2.98
Area: 3176
Amount: 17.190903
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 36781
Amount: 199.0865
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 17:20:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

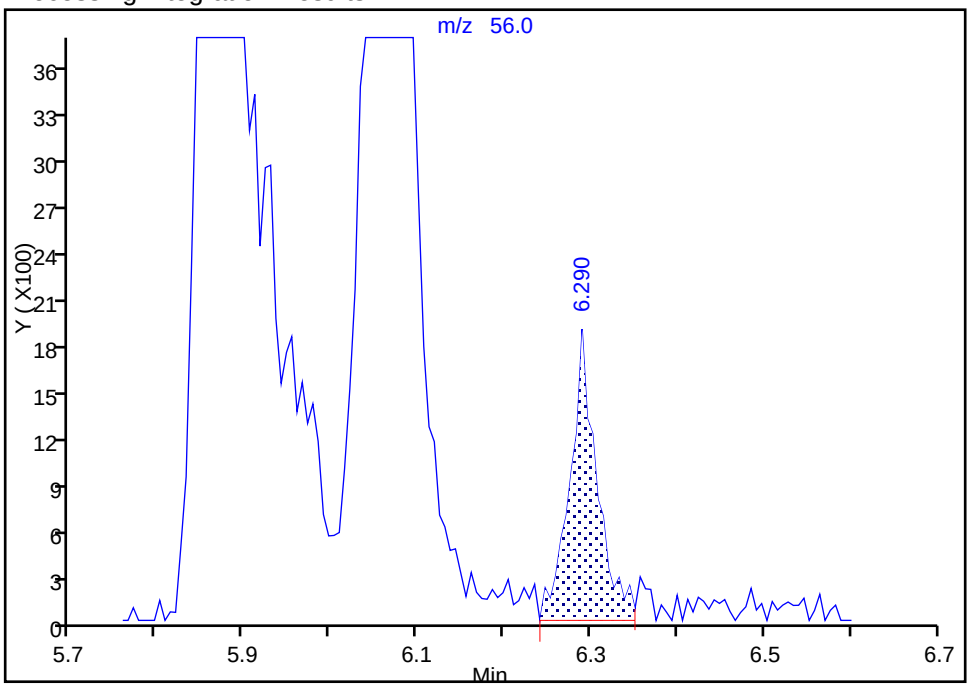
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80605.D
Injection Date: 10-Mar-2018 02:57:30 Instrument ID: CVOAMS9
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

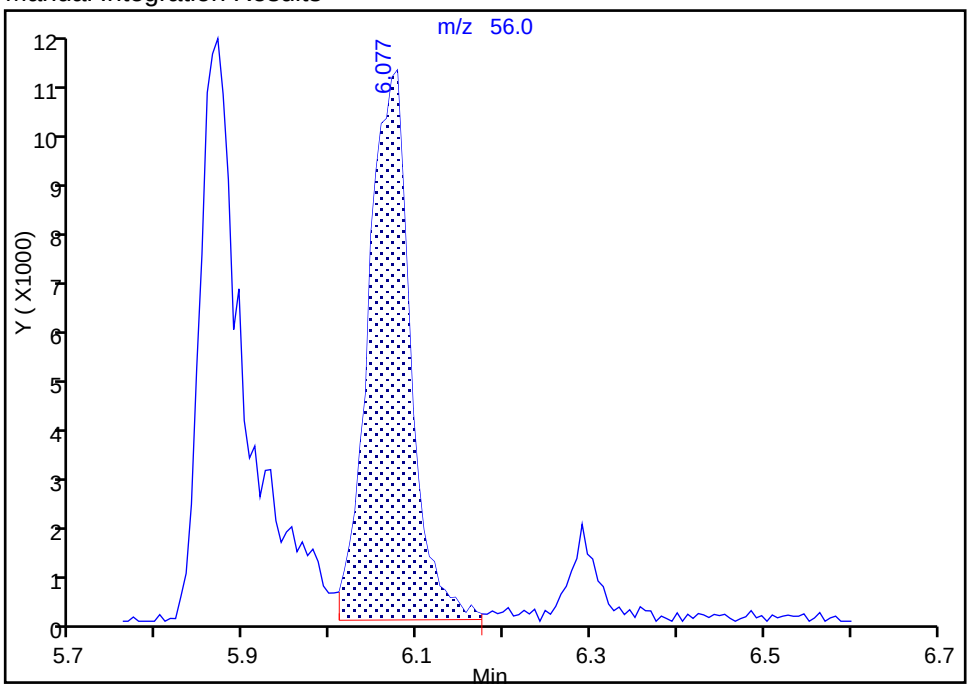
Processing Integration Results

RT: 6.29
Area: 4086
Amount: 2.553284
Amount Units: ug/l



Manual Integration Results

RT: 6.08
Area: 36204
Amount: 21.152518
Amount Units: ug/l



Reviewer: delpolitov, 11-Mar-2018 17:20:39
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504711/3 Calibration Date: 03/20/2018 10:04

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80982.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0786	0.0770		19.6	20.0	-2.1	20.0
Dichlorodifluoromethane	Lin2		0.4568	0.1000	16.4	20.0	-17.8	20.0
Chloromethane	Ave	0.4017	0.4641	0.1000	23.1	20.0	15.5	20.0
Butadiene	Ave	0.3022	0.3178		21.0	20.0	5.1	20.0
Vinyl chloride	Ave	0.4248	0.4264	0.1000	20.1	20.0	0.4	20.0
Bromomethane	Ave	0.3635	0.3489	0.1000	19.2	20.0	-4.0	50.0
Chloroethane	Ave	0.2116	0.2166	0.1000	20.5	20.0	2.3	50.0
Dichlorofluoromethane	Ave	0.6823	0.6573		19.3	20.0	-3.7	20.0
Trichlorofluoromethane	Ave	0.6795	0.5597	0.1000	16.5	20.0	-17.6	20.0
Pentane	Ave	1.710	1.481		34.6	40.0	-13.4	20.0
Ethyl ether	Ave	0.2150	0.2453		22.8	20.0	14.1	20.0
Ethanol	Ave	0.0353	0.0523		1180	800	48.0	50.0
2-Methyl-1,3-butadiene	Lin2		0.2691		22.0	20.0	9.8	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3237	0.3115		19.3	20.0	-3.7	20.0
Acrolein	Ave	1.258	1.313		313	300	4.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.4047	0.1000	18.9	20.0	-5.5	20.0
1,1-Dichloroethene	Lin2		0.3231	0.1000	19.2	20.0	-3.8	20.0
Acetone	QuaF		1.109	0.0500	94.3	100	-5.7	50.0
Iodomethane	Ave	0.7182	0.6951		19.4	20.0	-3.2	20.0
Isopropyl alcohol	Ave	0.6290	0.7064		225	200	12.3	50.0
Carbon disulfide	Ave	1.089	1.213	0.1000	22.3	20.0	11.3	50.0
Allyl chloride	Ave	0.1808	0.1950		21.6	20.0	7.9	20.0
Methyl acetate	Ave	0.1746	0.2355	0.1000	135	100	34.8*	20.0
Cyclopentene	Lin2		0.7475		21.7	20.0	8.5	20.0
Acetonitrile	Ave	1.208	1.551		257	200	28.4*	20.0
Methylene Chloride	Ave	0.3808	0.4088	0.1000	21.5	20.0	7.4	20.0
2-Methyl-2-propanol	Ave	1.432	1.318		184	200	-7.9	50.0
Methyl tert-butyl ether	Ave	0.9313	1.021	0.1000	21.9	20.0	9.6	20.0
trans-1,2-Dichloroethene	Ave	0.3358	0.3568	0.1000	21.2	20.0	6.2	20.0
Acrylonitrile	Ave	0.0918	0.1188		259	200	29.4*	20.0
Hexane	Ave	0.2158	0.2885		26.7	20.0	33.7*	20.0
Isopropyl ether	Ave	0.8317	1.171		28.2	20.0	40.8*	20.0
1,1-Dichloroethane	Ave	0.5296	0.6283	0.2000	23.7	20.0	18.6	20.0
Vinyl acetate	Ave	1.851	1.666		36.0	40.0	-10.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2684	0.2726		20.3	20.0	1.6	20.0
Tert-butyl ethyl ether	Ave	0.9038	1.119		24.8	20.0	23.8*	20.0
2,2-Dichloropropane	Ave	0.1790	0.1818		20.3	20.0	1.6	20.0
2-Butanone (MEK)	Ave	0.4515	0.3728	0.0500	82.6	100	-17.4	50.0
cis-1,2-Dichloroethene	Ave	0.3969	0.4000	0.1000	20.2	20.0	0.8	20.0
Ethyl acetate	Ave	0.3870	0.3155		32.6	40.0	-18.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504711/3 Calibration Date: 03/20/2018 10:04

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80982.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2218	0.2571		23.2	20.0	15.9	20.0
Propionitrile	Ave	1.455	1.485		204	200	2.0	20.0
Tetrahydrofuran	Ave	0.5459	0.4681		34.3	40.0	-14.2	20.0
Chlorobromomethane	Ave	0.2112	0.2054		19.4	20.0	-2.8	20.0
Methacrylonitrile	Ave	0.1092	0.1204		220	200	10.2	20.0
Chloroform	Ave	0.6311	0.6707	0.2000	21.3	20.0	6.3	20.0
Cyclohexane	Lin2		0.4919	0.1000	19.3	20.0	-3.6	50.0
1,1,1-Trichloroethane	Ave	0.5996	0.5938	0.1000	19.8	20.0	-1.0	20.0
Carbon tetrachloride	Ave	0.5356	0.4814	0.1000	18.0	20.0	-10.1	20.0
1,1-Dichloropropene	Ave	0.4091	0.4326		21.1	20.0	5.7	20.0
Isobutyl alcohol	Lin2		0.0462		449	500	-10.2	20.0
Benzene	Ave	1.426	1.542	0.5000	21.6	20.0	8.1	20.0
Isopropyl acetate	Ave	0.8406	0.9666		23.0	20.0	15.0	20.0
Tert-amyl methyl ether	Ave	0.9760	1.081		22.1	20.0	10.7	20.0
1,2-Dichloroethane	Ave	0.4529	0.4660	0.1000	20.6	20.0	2.9	20.0
n-Heptane	Lin2		0.2525		22.1	20.0	10.4	20.0
n-Butanol	Ave	0.2873	0.2636		459	500	-8.2	50.0
Trichloroethene	Ave	0.3474	0.3452	0.2000	19.9	20.0	-0.6	20.0
Ethyl acrylate	Ave	0.1732	0.1913		22.1	20.0	10.5	20.0
Methylcyclohexane	Lin2		0.5821	0.1000	19.2	20.0	-4.2	50.0
1,2-Dichloropropane	Ave	0.2853	0.3319	0.1000	23.3	20.0	16.3	20.0
Methyl methacrylate	Ave	0.2165	0.2207		40.8	40.0	1.9	20.0
1,4-Dioxane	Ave	1.785	1.512		339	400	-15.3	50.0
n-Propyl acetate	Ave	0.3184	0.4222		26.5	20.0	32.6*	20.0
Dibromomethane	Ave	0.2169	0.2208		20.4	20.0	1.8	20.0
Dichlorobromomethane	Ave	0.4474	0.4527	0.2000	20.2	20.0	1.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1250	0.1469		23.5	20.0	17.5	20.0
2-Nitropropane	Ave	0.0746	0.0651		34.9	40.0	-12.8	20.0
Epichlorohydrin	Ave	0.3422	0.3332		390	400	-2.6	20.0
cis-1,3-Dichloropropene	Ave	0.5750	0.6135	0.2000	21.3	20.0	6.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.087	3.403	0.0500	110	100	10.2	50.0
Toluene	Ave	1.679	1.688	0.4000	20.1	20.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	0.5026	0.5287	0.1000	21.0	20.0	5.2	50.0
Ethyl methacrylate	Ave	0.3847	0.4405		22.9	20.0	14.5	20.0
1,1,2-Trichloroethane	Ave	0.2795	0.2906	0.1000	20.8	20.0	4.0	20.0
Tetrachloroethene	Ave	0.4897	0.4559	0.2000	18.6	20.0	-6.9	20.0
1,3-Dichloropropane	Ave	0.4962	0.5577		22.5	20.0	12.4	20.0
2-Hexanone	Ave	1.998	2.148	0.0500	108	100	7.5	50.0
n-Butyl acetate	Ave	0.4017	0.5520		27.5	20.0	37.4*	20.0
Chlorodibromomethane	Ave	0.4663	0.4204	0.1000	18.0	20.0	-9.9	50.0
Ethylene Dibromide	Ave	0.3649	0.3504	0.1000	19.2	20.0	-4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504711/3 Calibration Date: 03/20/2018 10:04

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80982.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.144	1.104	0.5000	19.3	20.0	-3.5	20.0
Ethylbenzene	Ave	0.5736	0.5419	0.1000	18.9	20.0	-5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4858	0.4517		18.6	20.0	-7.0	20.0
m-Xylene & p-Xylene	Ave	0.7022	0.6803	0.1000	19.4	20.0	-3.1	20.0
n-Butyl acrylate	Ave	0.2289	0.2672		23.3	20.0	16.7	20.0
o-Xylene	Ave	0.7269	0.7194	0.3000	19.8	20.0	-1.0	20.0
Styrene	Ave	1.163	1.161	0.3000	20.0	20.0	-0.2	20.0
Amyl acetate (mixed isomers)	Ave	0.7868	1.065		27.1	20.0	35.3*	20.0
Bromoform	Ave	0.3225	0.2792	0.1000	17.3	20.0	-13.4	20.0
Isopropylbenzene	Lin2		1.979	0.1000	18.1	20.0	-9.3	20.0
Bromobenzene	Ave	0.9313	0.8652		18.6	20.0	-7.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7894	0.8276	0.3000	21.0	20.0	4.8	20.0
N-Propylbenzene	Ave	3.800	3.877		20.4	20.0	2.0	20.0
1,2,3-Trichloropropane	Ave	0.2567	0.2357		18.4	20.0	-8.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1991		21.1	20.0	5.5	20.0
2-Chlorotoluene	Ave	2.701	2.691		19.9	20.0	-0.4	20.0
4-Ethyltoluene	Ave	3.378	3.309		19.6	20.0	-2.1	20.0
1,3,5-Trimethylbenzene	Ave	3.004	2.852		19.0	20.0	-5.1	20.0
4-Chlorotoluene	Ave	2.288	2.345		20.5	20.0	2.5	20.0
Butyl Methacrylate	Ave	0.7951	0.8468		21.3	20.0	6.5	20.0
tert-Butylbenzene	Lin2		2.262		17.0	20.0	-14.8	20.0
1,2,4-Trimethylbenzene	Ave	3.092	2.960		19.1	20.0	-4.3	20.0
sec-Butylbenzene	Lin2		3.744		18.3	20.0	-8.4	20.0
4-Isopropyltoluene	Lin2		3.268		17.9	20.0	-10.6	20.0
1,3-Dichlorobenzene	Ave	1.797	1.719	0.6000	19.1	20.0	-4.3	20.0
1,4-Dichlorobenzene	Ave	1.805	1.756	0.5000	19.5	20.0	-2.7	20.0
Benzyl chloride	Ave	1.412	1.389		19.7	20.0	-1.6	50.0
Indan	Ave	3.254	3.154		19.4	20.0	-3.1	20.0
p-Diethylbenzene	Ave	1.911	1.826		19.1	20.0	-4.5	20.0
n-Butylbenzene	Lin2		1.748		20.2	20.0	0.8	20.0
1,2-Dichlorobenzene	Ave	1.835	1.760	0.4000	19.2	20.0	-4.1	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.423	3.394		19.8	20.0	-0.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1807	0.1687	0.0500	18.7	20.0	-6.7	50.0
1,3,5-Trichlorobenzene	Ave	1.576	1.603		20.3	20.0	1.7	20.0
1,2,4-Trichlorobenzene	Ave	1.539	1.569	0.2000	20.4	20.0	1.9	20.0
Hexachlorobutadiene	Lin2		0.7364		18.8	20.0	-5.9	20.0
Naphthalene	Ave	3.710	3.701		20.0	20.0	-0.2	50.0
1,2,3-Trichlorobenzene	Ave	1.574	1.586		20.1	20.0	0.7	20.0
Dibromofluoromethane (Surr)	Ave	0.3442	0.3632		52.8	50.0	5.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3404	0.3820		56.1	50.0	12.2	20.0
Toluene-d8 (Surr)	Ave	1.445	1.502		52.0	50.0	3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504711/3 Calibration Date: 03/20/2018 10:04

Instrument ID: CVOAMS9 Calib Start Date: 03/09/2018 22:30

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/10/2018 00:31

Lab File ID: K80982.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4923	0.5102		51.8	50.0	3.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80982.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Mar-2018 10:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0069025-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Mar-2018 13:13:24 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 20-Mar-2018 13:13:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.614	1.614	0.000	88	12538	20.0	19.6	
2 Dichlorodifluoromethane	85	1.626	1.626	0.000	99	74411	20.0	16.4	
3 Chloromethane	50	1.803	1.803	0.000	99	75593	20.0	23.1	
5 Butadiene	54	1.907	1.907	0.000	95	51763	20.0	21.0	
4 Vinyl chloride	62	1.913	1.913	0.000	98	69463	20.0	20.1	
6 Bromomethane	94	2.200	2.200	0.000	98	56840	20.0	19.2	
7 Chloroethane	64	2.273	2.273	0.000	99	35278	20.0	20.5	
8 Trichlorofluoromethane	101	2.474	2.474	0.000	75	91172	20.0	16.5	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	98	107068	20.0	19.3	
10 Pentane	72	2.498	2.498	0.000	98	15227	40.0	34.6	
11 Ethyl ether	59	2.699	2.699	0.000	93	39956	20.0	22.8	
12 Ethanol	46	2.712	2.712	0.000	76	10744	800.0	1184.3	M
13 2-Methyl-1,3-butadiene	53	2.718	2.718	0.000	97	43835	20.0	22.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.754	0.000	92	50746	20.0	19.3	
15 Acrolein	56	2.876	2.876	0.000	96	101242	300.0	313.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.894	2.894	0.000	98	65925	20.0	18.9	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	98	52625	20.0	19.2	
18 Acetone	43	3.004	3.004	0.000	84	85205	100.0	94.3	
19 Iodomethane	142	3.077	3.077	0.000	99	113227	20.0	19.4	
22 Isopropyl alcohol	45	3.083	3.083	0.000	1	36307	200.0	224.6	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	197609	20.0	22.3	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	68	31769	20.0	21.6	
23 Methyl acetate	43	3.248	3.248	0.000	99	191774	100.0	134.8	
24 Cyclopentene	67	3.266	3.266	0.000	88	121764	20.0	21.7	
29 Acetonitrile	41	3.309	3.309	0.000	98	79699	200.0	256.8	
* 25 TBA-d9 (IS)	65	3.352	3.352	0.000	0	257006	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	94	66589	20.0	21.5	
27 2-Methyl-2-propanol	59	3.425	3.425	0.000	97	67766	200.0	184.1	
28 Methyl tert-butyl ether	73	3.535	3.535	0.000	96	166242	20.0	21.9	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	95	58121	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	92	193458	200.0	258.8	
32 Hexane	43	3.724	3.724	0.000	93	46988	20.0	26.7	
33 Isopropyl ether	45	3.925	3.925	0.000	97	190769	20.0	28.2	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	71	102342	20.0	23.7	
35 Vinyl acetate	86	3.980	3.980	0.000	100	17127	40.0	36.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	92	44403	20.0	20.3	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	88	182311	20.0	24.8	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	192054	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.486	0.000	95	29610	20.0	20.3	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	92	65166	20.0	20.2	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	95	28636	100.0	82.6	
41 Ethyl acetate	70	4.510	4.510	0.000	93	9694	40.0	32.6	
44 Methyl acrylate	55	4.565	4.565	0.000	100	41880	20.0	23.2	
43 Propionitrile	54	4.644	4.644	0.000	97	76309	200.0	204.0	
45 Tetrahydrofuran	72	4.736	4.736	0.000	66	14385	40.0	34.3	
46 Chlorobromomethane	128	4.742	4.742	0.000	82	33457	20.0	19.4	
47 Methacrylonitrile	67	4.748	4.748	0.000	94	196050	200.0	220.3	
48 Chloroform	83	4.784	4.784	0.000	99	109248	20.0	21.3	
49 Cyclohexane	84	4.931	4.931	0.000	95	80137	20.0	19.3	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	97	96736	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	97	147899	50.0	52.8	
52 Carbon tetrachloride	117	5.065	5.065	0.000	97	78426	20.0	18.0	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	96	70470	20.0	21.1	
56 Isobutyl alcohol	74	5.193	5.193	0.000	94	5933	500.0	449.1	
54 Benzene	78	5.290	5.290	0.000	95	207764	20.0	21.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.303	5.303	0.000	0	155581	50.0	56.1	a
57 Isopropyl acetate	43	5.333	5.333	0.000	96	157459	20.0	23.0	
58 Tert-amyl methyl ether	73	5.339	5.339	0.000	95	176056	20.0	22.1	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	98	75906	20.0	20.6	
60 n-Heptane	57	5.431	5.431	0.000	95	41137	20.0	22.1	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	407246	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	95	33876	500.0	458.8	
63 Trichloroethene	95	5.937	5.937	0.000	99	56237	20.0	19.9	
64 Ethyl acrylate	56	6.065	6.065	0.000	97	31163	20.0	22.1	
65 Methylcyclohexane	83	6.071	6.071	0.000	91	94825	20.0	19.2	
66 1,2-Dichloropropane	63	6.229	6.229	0.000	87	54061	20.0	23.3	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	22166	1000.0	1000.0	
68 Methyl methacrylate	41	6.290	6.290	0.000	92	71898	40.0	40.8	
69 1,4-Dioxane	88	6.339	6.339	0.000	29	13403	400.0	338.7	
70 n-Propyl acetate	43	6.345	6.345	0.000	99	68768	20.0	26.5	
71 Dibromomethane	93	6.363	6.363	0.000	94	35960	20.0	20.4	
72 Dichlorobromomethane	83	6.510	6.510	0.000	98	73745	20.0	20.2	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	71	23922	20.0	23.5	
74 2-Nitropropane	41	6.845	6.845	0.000	79	21200	40.0	34.9	
75 Epichlorohydrin	57	6.955	6.955	0.000	99	102389	400.0	389.5	
76 cis-1,3-Dichloropropene	75	7.016	7.016	0.000	94	82684	20.0	21.3	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	97	261427	100.0	110.2	
$ 78 Toluene-d8 (Surr)	98	7.266	7.266	0.000	98	506003	50.0	52.0	
79 Toluene	91	7.345	7.345	0.000	92	227554	20.0	20.1	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	97	71255	20.0	21.0	
81 Ethyl methacrylate	69	7.705	7.705	0.000	89	59366	20.0	22.9	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	95	39165	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.961	7.961	0.000	97	61443	20.0	18.6	
84 1,3-Dichloropropane	76	8.125	8.125	0.000	95	75163	20.0	22.5	
85 2-Hexanone	43	8.168	8.168	0.000	98	165030	100.0	107.5	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	74403	20.0	27.5	
87 Chlorodibromomethane	129	8.363	8.363	0.000	98	56655	20.0	18.0	
88 Ethylene Dibromide	107	8.528	8.528	0.000	97	47232	20.0	19.2	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	84	336946	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	95	148749	20.0	19.3	
92 Ethylbenzene	106	9.198	9.198	0.000	98	73038	20.0	18.9	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.223	0.000	93	60878	20.0	18.6	
93 m-Xylene & p-Xylene	106	9.351	9.351	0.000	0	91691	20.0	19.4	
94 n-Butyl acrylate	73	9.783	9.783	0.000	96	36014	20.0	23.3	
95 o-Xylene	106	9.814	9.814	0.000	91	96963	20.0	19.8	
96 Styrene	104	9.844	9.844	0.000	95	156493	20.0	20.0	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	90	86139	20.0	27.1	
98 Bromoform	173	10.082	10.082	0.000	96	37627	20.0	17.3	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	266672	20.0	18.1	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	94	171898	50.0	51.8	
101 Bromobenzene	156	10.558	10.558	0.000	94	70008	20.0	18.6	
102 1,1,2,2-Tetrachloroethane	83	10.594	10.594	0.000	98	66960	20.0	21.0	
103 N-Propylbenzene	91	10.625	10.625	0.000	99	313691	20.0	20.4	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	95	19070	20.0	18.4	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	90	16109	20.0	21.1	
107 4-Ethyltoluene	105	10.741	10.741	0.000	89	267718	20.0	19.6	
106 2-Chlorotoluene	91	10.741	10.741	0.000	92	217770	20.0	19.9	
108 1,3,5-Trimethylbenzene	105	10.808	10.808	0.000	93	230795	20.0	19.0	
109 4-Chlorotoluene	91	10.856	10.856	0.000	97	189704	20.0	20.5	
110 Butyl Methacrylate	87	10.899	10.899	0.000	92	68519	20.0	21.3	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	183057	20.0	17.0	
112 1,2,4-Trimethylbenzene	105	11.161	11.161	0.000	97	239482	20.0	19.1	
113 sec-Butylbenzene	105	11.307	11.307	0.000	99	302976	20.0	18.3	
114 4-Isopropyltoluene	119	11.436	11.436	0.000	98	264437	20.0	17.9	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	96	139124	20.0	19.1	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	93	202284	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	142100	20.0	19.5	
118 Benzyl chloride	91	11.667	11.667	0.000	98	112417	20.0	19.7	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	93	255223	20.0	19.4	
120 p-Diethylbenzene	119	11.771	11.771	0.000	93	147763	20.0	19.1	
121 n-Butylbenzene	92	11.795	11.795	0.000	98	141461	20.0	20.2	
122 1,2-Dichlorobenzene	146	11.868	11.868	0.000	98	142400	20.0	19.2	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	97	274634	20.0	19.8	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	95	13650	20.0	18.7	
125 1,3,5-Trichlorobenzene	180	12.643	12.643	0.000	98	129707	20.0	20.3	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	94	126936	20.0	20.4	
127 Hexachlorobutadiene	225	13.216	13.216	0.000	96	59588	20.0	18.8	
128 Naphthalene	128	13.331	13.331	0.000	99	299489	20.0	20.0	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	96	128314	20.0	20.1	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.4	
S 131 Xylenes, Total	100				0		40.0	39.2	
S 132 Total BTEX	1				0		100.0	99.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	2.00	Units: uL	
ACROLEIN W_00074	Amount Added:	3.00	Units: uL	
GASES Li_00251	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Mar-2018 13:13:29 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80982.D

Injection Date: 20-Mar-2018 10:04:30 Instrument ID: CVOAMS9 Operator ID:

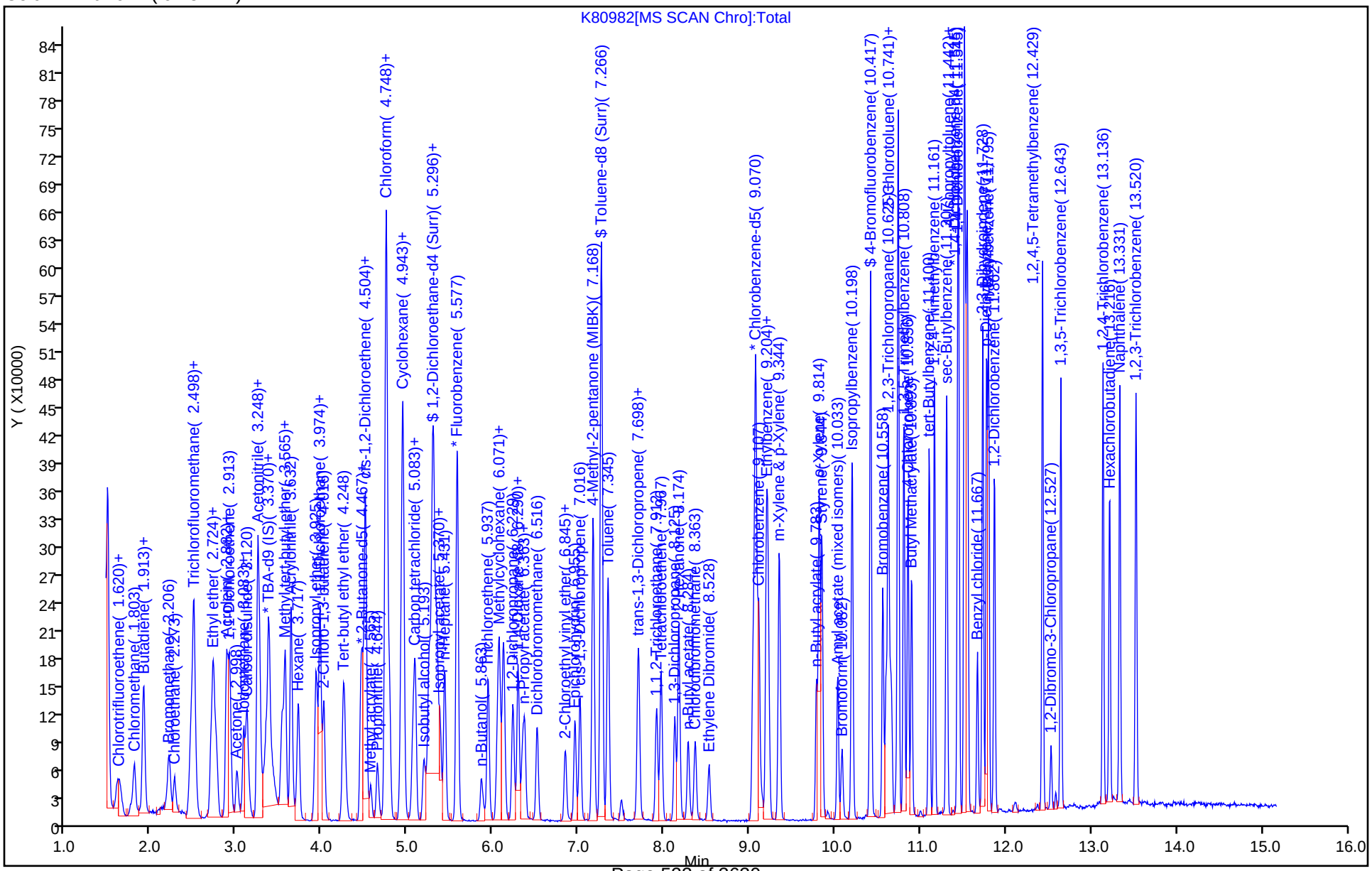
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

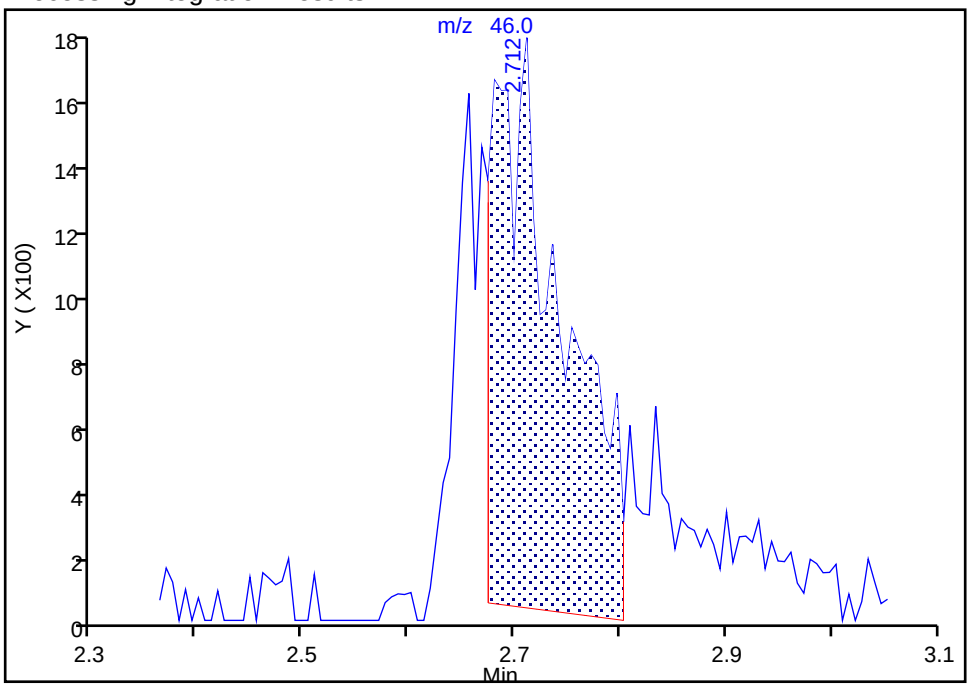
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80982.D
Injection Date: 20-Mar-2018 10:04:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

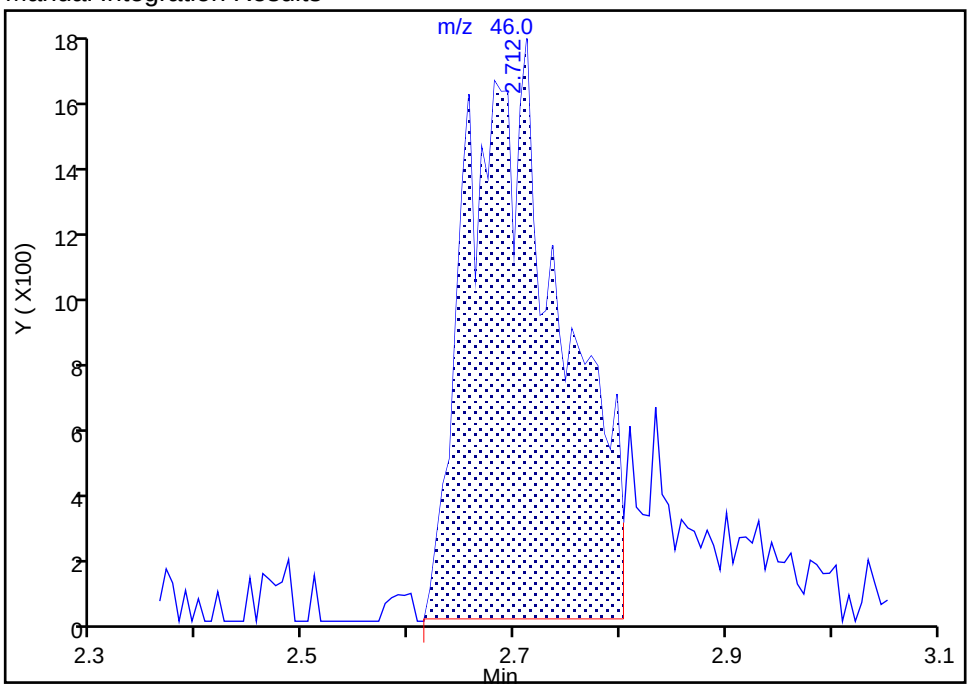
Processing Integration Results

RT: 2.71
Area: 7897
Amount: 870.5042
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 10744
Amount: 1184.3355
Amount Units: ug/l



Reviewer: delpolitov, 20-Mar-2018 13:12:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

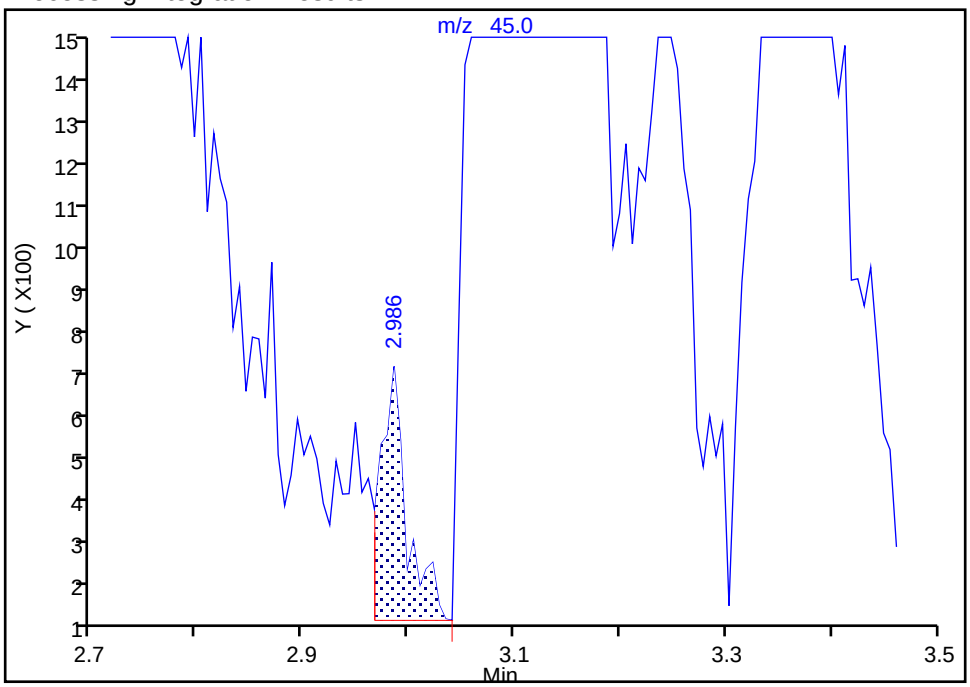
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80982.D
Injection Date: 20-Mar-2018 10:04:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

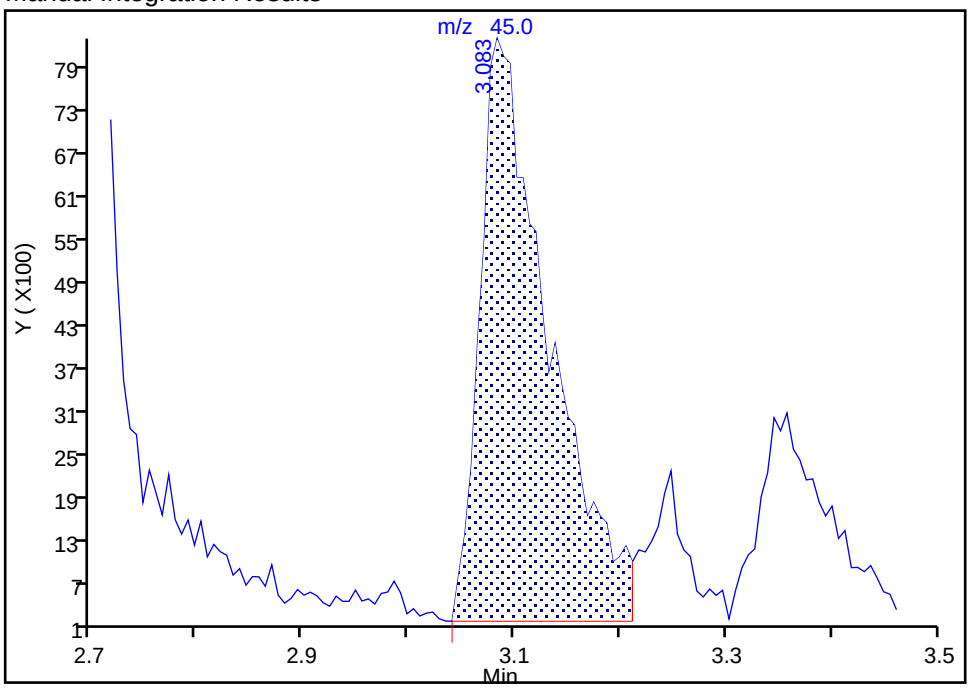
Processing Integration Results

RT: 2.99
Area: 949
Amount: 5.870734
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 36307
Amount: 224.6035
Amount Units: ug/l



Reviewer: martineze, 20-Mar-2018 10:26:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

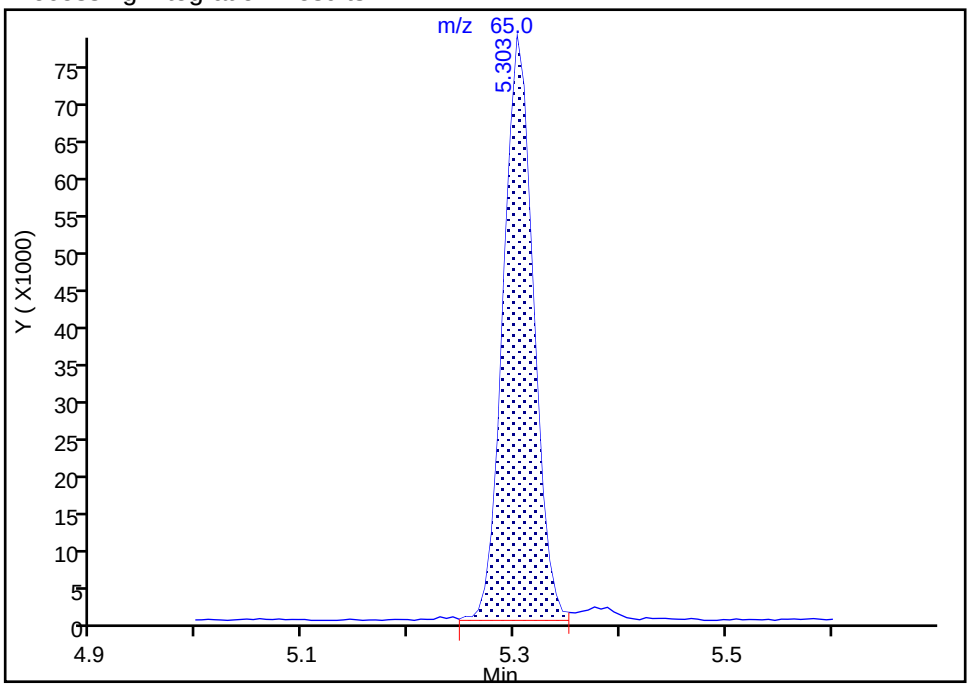
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80982.D
Injection Date: 20-Mar-2018 10:04:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

$ 55 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

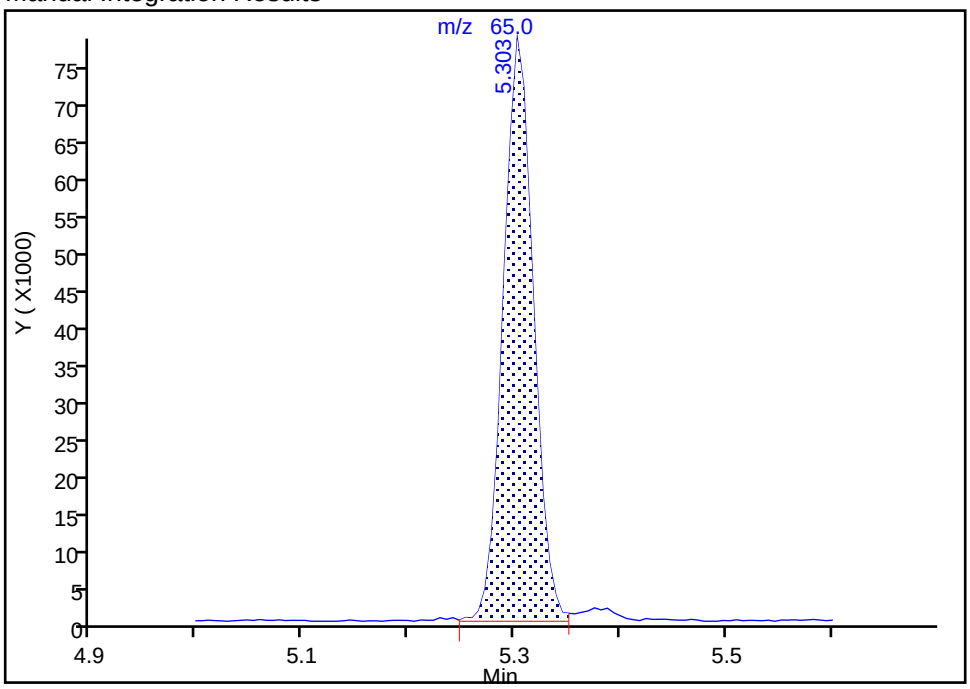
Processing Integration Results

RT: 5.30
Area: 155581
Amount: 56.119585
Amount Units: ug/l



Manual Integration Results

RT: 5.30
Area: 155581
Amount: 56.119585
Amount Units: ug/l



Reviewer: delpolitov, 20-Mar-2018 13:13:04
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42051.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 05-Mar-2018 22:08:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0068378-001
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Mar-2018 11:52:53 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	2.196	2.196	0.000	89	64143	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

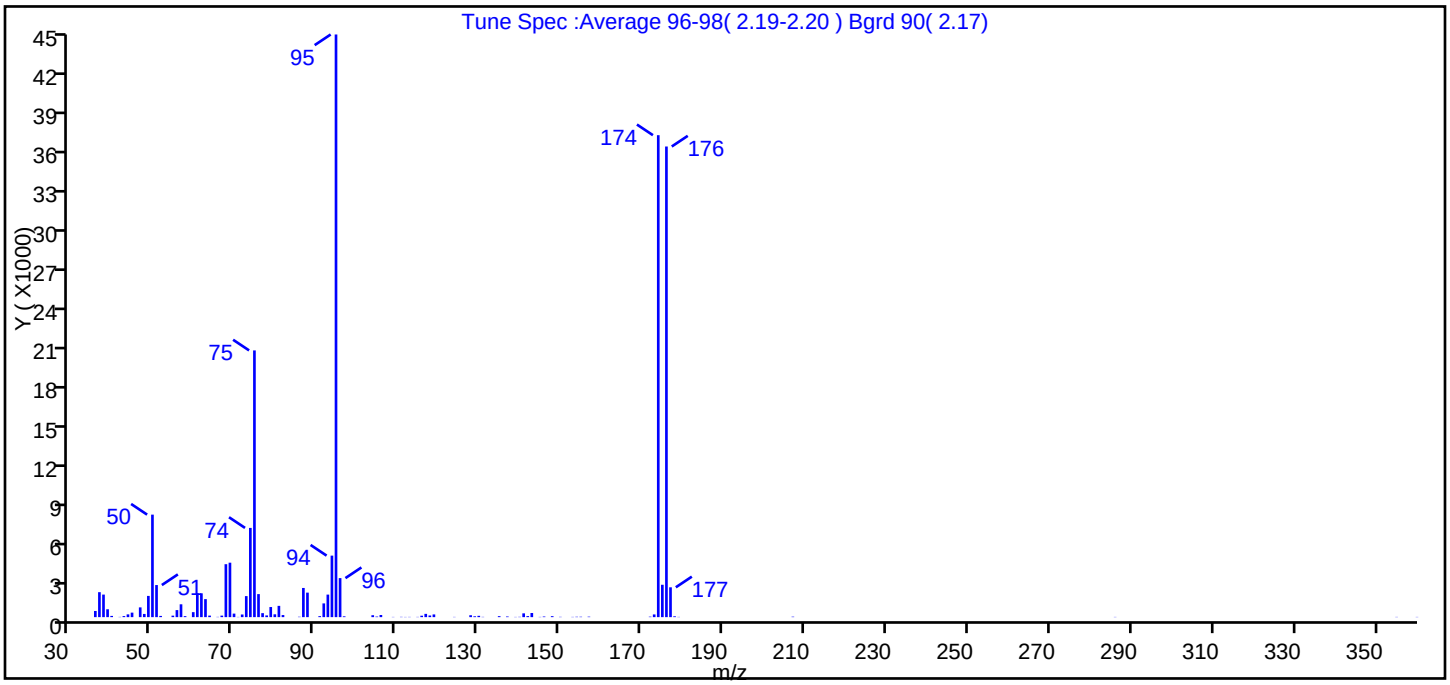
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42051.D
Injection Date: 05-Mar-2018 22:08:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.6
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	82.7
175	5 to 9% of m/z 174	5.6 (6.7)
176	Greater than 95% but less than 101% of m/z 174	80.8 (97.7)
177	5 to 9% of m/z 176	5.1 (6.3)

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42051.D\8260W_13.rslt\spectra.d
Injection Date: 05-Mar-2018 22:08:30
Spectrum: Tune Spec :Average 96-98(2.19-2.20) Bgrd 90(2.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	474	66.00	20	95.00	44896	141.00	292
37.00	1923	67.00	116	96.00	3008	142.00	80
38.00	1738	68.00	4080	97.00	62	143.00	319
39.00	607	69.00	4196	104.00	148	145.00	18
40.00	96	70.00	272	105.00	44	146.00	48
42.00	18	71.00	17	106.00	165	148.00	74
43.00	82	72.00	204	109.00	17	150.00	23
44.00	213	73.00	1621	111.00	22	153.00	19
45.00	348	74.00	6876	112.00	16	154.00	29
47.00	752	75.00	20552	113.00	19	155.00	31
48.00	246	76.00	1775	115.00	19	157.00	37
49.00	1636	77.00	308	116.00	110	172.00	37
50.00	7899	78.00	132	117.00	252	173.00	209
51.00	2473	79.00	779	118.00	126	174.00	37136
52.00	95	80.00	219	119.00	209	175.00	2495
55.00	115	81.00	869	124.00	18	176.00	36264
56.00	543	82.00	161	128.00	147	177.00	2299
57.00	990	86.00	30	129.00	65	178.00	64
58.00	76	87.00	2249	130.00	102	179.00	18
60.00	384	88.00	1889	131.00	21	207.00	35
61.00	1850	91.00	77	135.00	75	286.00	17
62.00	1836	92.00	1059	137.00	50	355.00	18
63.00	1389	93.00	1737	139.00	17	360.00	17
64.00	119	94.00	4740	140.00	24		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42877.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 21-Mar-2018 08:35:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0069071-001
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Mar-2018 10:30:11 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: desais Date: 21-Mar-2018 09:03:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	2.170	2.170	0.000	88	36028	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

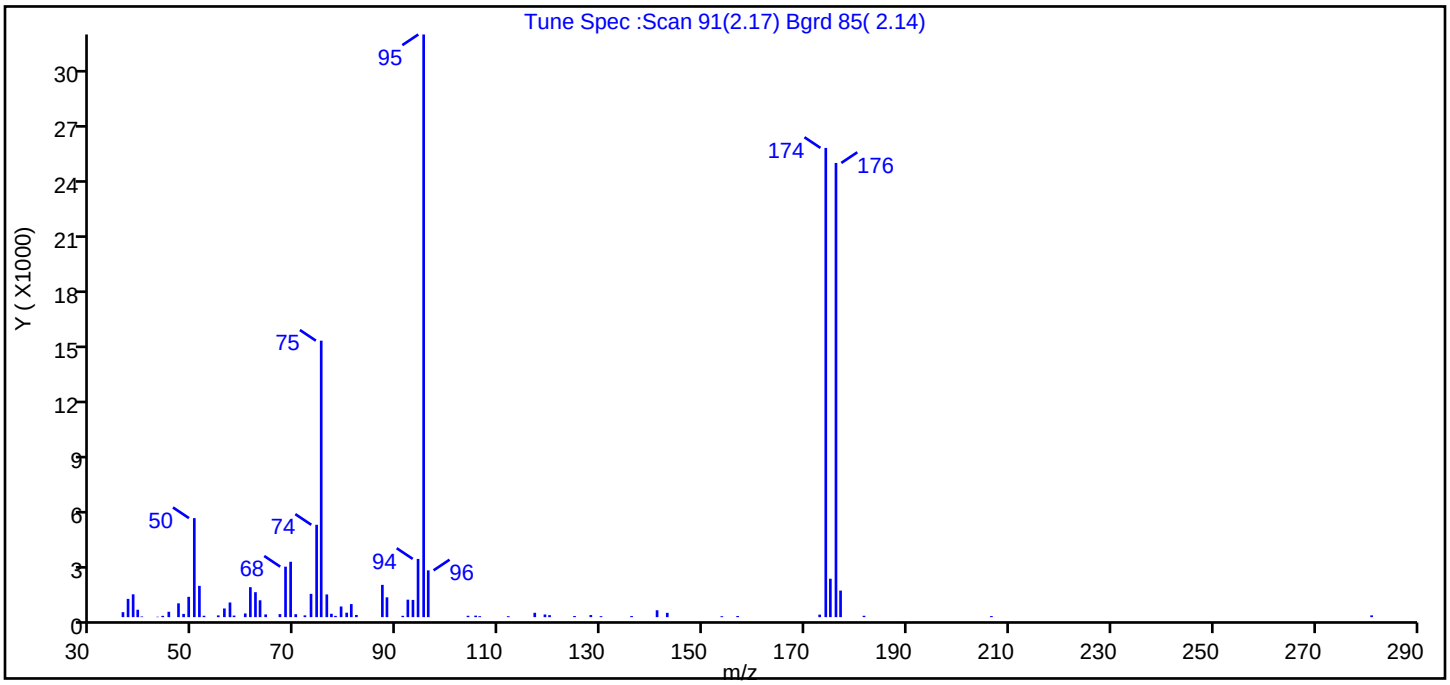
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42877.D
Injection Date: 21-Mar-2018 08:35:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	8.0
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	80.5
175	5 to 9% of m/z 174	6.6 (8.2)
176	Greater than 95% but less than 101% of m/z 174	78.0 (96.8)
177	5 to 9% of m/z 176	4.6 (5.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42877.D\8260W_13.rslt\spectra.d
Injection Date: 21-Mar-2018 08:35:30
Spectrum: Tune Spec :Scan 91(2.17) Bgrd 85(2.14)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	265	60.10	196	80.90	695	127.90	111
37.10	973	61.10	1596	81.90	117	129.90	51
38.10	1216	62.10	1329	87.00	1719	135.90	58
39.00	394	63.00	898	87.90	1055	140.90	366
39.80	34	64.10	145	91.00	71	142.90	229
42.90	21	66.90	162	92.00	930	153.60	50
43.90	69	68.00	2688	93.00	916	156.70	60
45.10	286	69.00	2948	94.00	3101	172.80	133
47.00	735	70.00	156	95.10	31024	174.00	24984
48.00	172	71.80	94	96.00	2491	174.90	2045
49.00	1081	73.00	1240	103.80	73	176.00	24184
50.10	5272	74.10	4917	105.30	80	176.90	1414
51.10	1665	75.00	14721	106.10	51	181.50	73
52.00	74	76.10	1208	111.70	50	206.50	57
54.80	93	77.00	180	116.90	232	281.10	95
56.00	462	77.80	68	118.90	142		
57.10	780	78.90	568	119.80	106		
57.90	83	80.00	237	124.70	61		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42906.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 22-Mar-2018 06:41:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0069112-001
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:15:08 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	2.170	2.170	0.000	89	33136	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

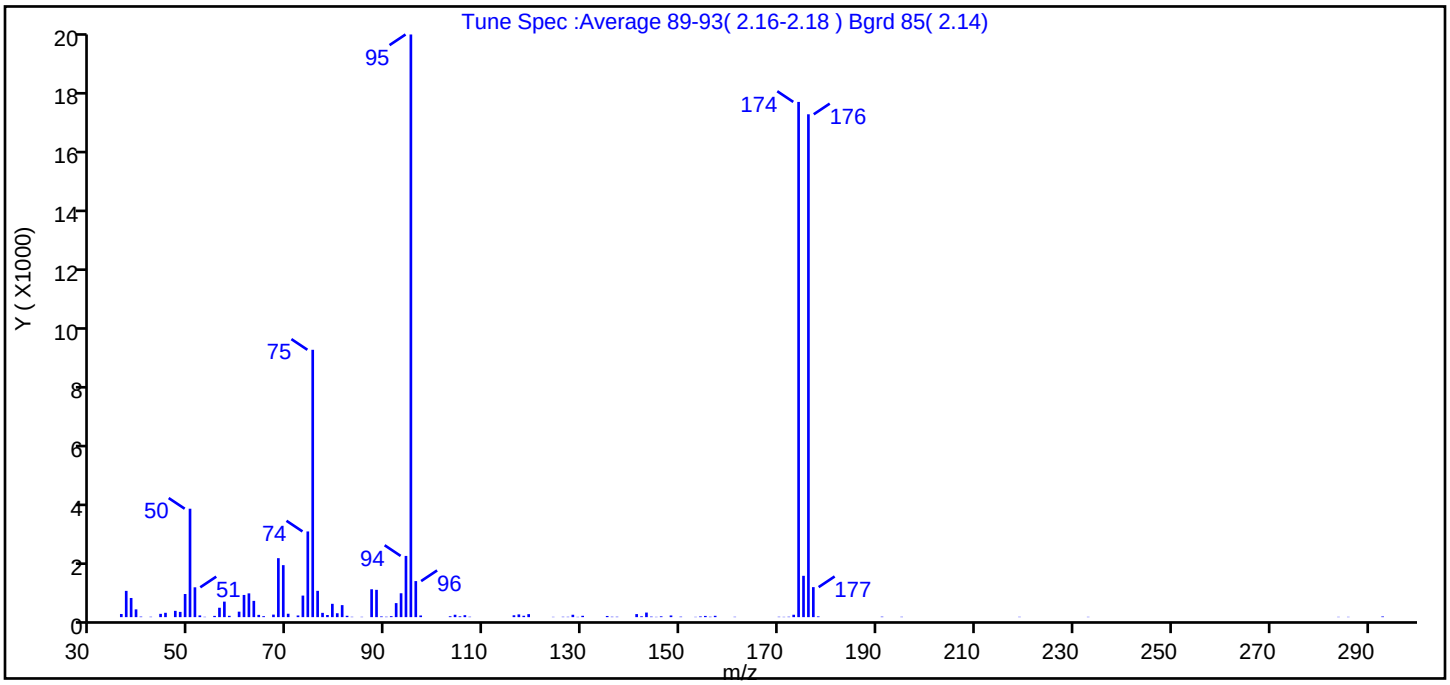
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42906.D
Injection Date: 22-Mar-2018 06:41:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.6
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	88.4
175	5 to 9% of m/z 174	7.1 (8.0)
176	Greater than 95% but less than 101% of m/z 174	86.3 (97.6)
177	5 to 9% of m/z 176	5.2 (6.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42906.D\8260W_13.rslt\spectra.d
Injection Date: 22-Mar-2018 06:41:30
Spectrum: Tune Spec :Average 89-93(2.16-2.18) Bgrd 85(2.14)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	108	68.00	2022	97.00	57	150.00	16
37.00	901	69.00	1783	103.00	30	153.00	10
38.00	657	70.00	117	104.00	82	154.00	24
39.00	267	72.00	57	105.00	28	155.00	42
40.00	18	73.00	739	106.00	67	156.00	14
42.00	13	74.00	2938	107.00	14	157.00	46
44.00	113	75.00	9166	116.00	64	161.00	12
45.00	149	76.00	902	117.00	94	170.00	13
47.00	216	77.00	147	118.00	47	171.00	10
48.00	180	78.00	73	119.00	103	172.00	14
49.00	793	79.00	457	124.00	10	173.00	82
50.00	3717	80.00	134	126.00	13	174.00	17664
51.00	1023	81.00	412	127.00	12	175.00	1417
52.00	59	82.00	47	128.00	82	176.00	17240
53.00	11	83.00	12	129.00	10	177.00	1029
55.00	43	85.00	11	130.00	46	178.00	24
56.00	322	87.00	956	135.00	40	191.00	16
57.00	532	88.00	936	136.00	14	195.00	12
58.00	46	89.00	24	137.00	14	219.00	11
60.00	188	90.00	14	141.00	105	233.00	10
61.00	761	91.00	34	142.00	29	284.00	10
62.00	815	92.00	481	143.00	157	286.00	10
63.00	558	93.00	819	144.00	18	293.00	23
64.00	78	94.00	2099	145.00	10		
65.00	33	95.00	19976	146.00	28		
67.00	87	96.00	1236	148.00	57		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04569.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Mar-2018 08:43:57 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 14-Mar-2018 09:30:12 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK030

First Level Reviewer: desais Date: 13-Mar-2018 08:58:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.454	2.454	0.000	0	44824	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

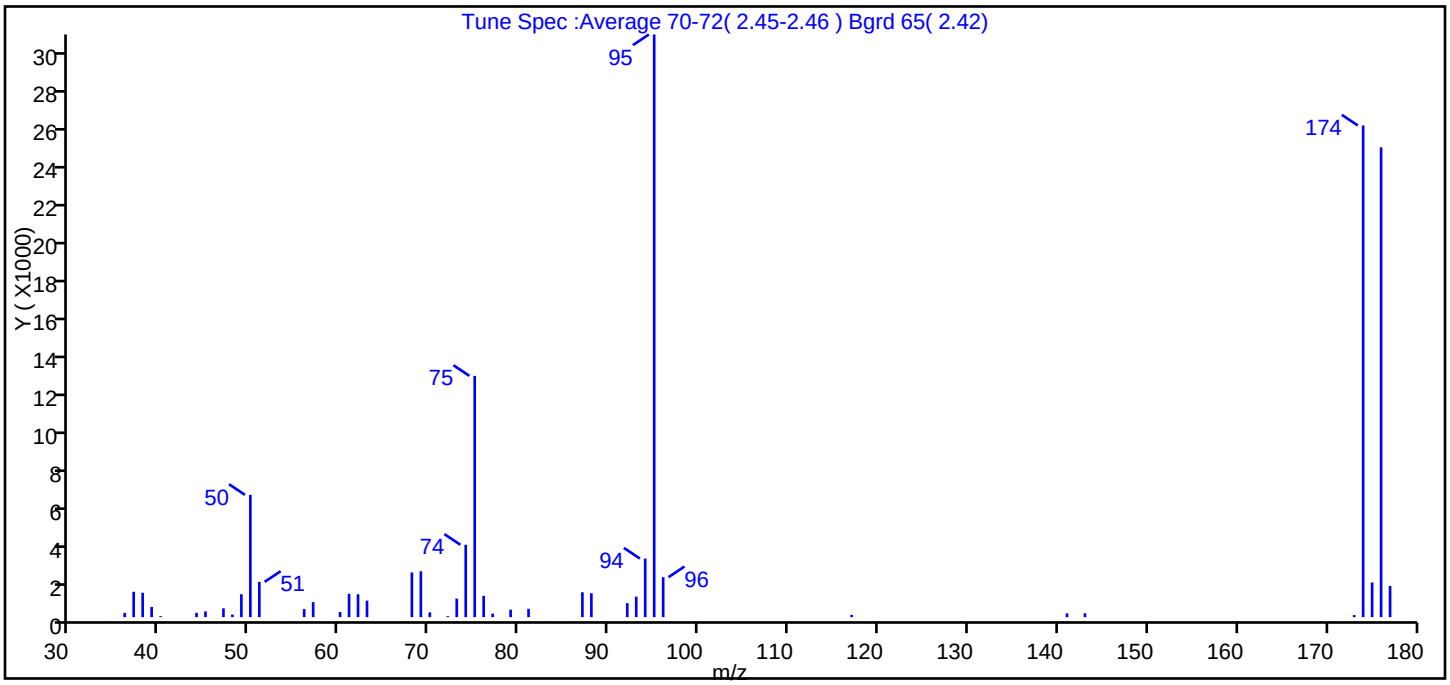
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04569.D
Injection Date: 13-Mar-2018 08:43:57 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.0
75	30 to 60% of m/z 95	41.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	84.4
175	5 to 9% of m/z 174	5.9 (7.0)
176	Greater than 95% but less than 101% of m/z 174	80.6 (95.6)
177	5 to 9% of m/z 176	5.4 (6.6)

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04569.D\8260W_15.rslt\spectra.d
Injection Date: 13-Mar-2018 08:43:57
Spectrum: Tune Spec :Average 70-72(2.45-2.46) Bgrd 65(2.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	227	51.00	1873	73.00	984	94.00	3110
37.00	1349	56.00	427	74.00	3842	95.00	30936
38.00	1295	57.00	797	75.00	12811	96.00	2122
39.00	542	60.00	275	76.00	1134	117.00	121
40.00	52	61.00	1240	77.00	187	141.00	200
44.00	230	62.00	1214	79.00	398	143.00	206
45.00	302	63.00	878	81.00	441	173.00	109
47.00	470	68.00	2372	87.00	1321	174.00	26104
48.00	138	69.00	2433	88.00	1269	175.00	1840
49.00	1216	70.00	252	92.00	741	176.00	24944
50.00	6491	72.00	52	93.00	1087	177.00	1658

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04905.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 22-Mar-2018 06:41:54 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:00:10 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK023

First Level Reviewer: desais Date: 22-Mar-2018 06:50:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.449	2.449	0.000	0	38929	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

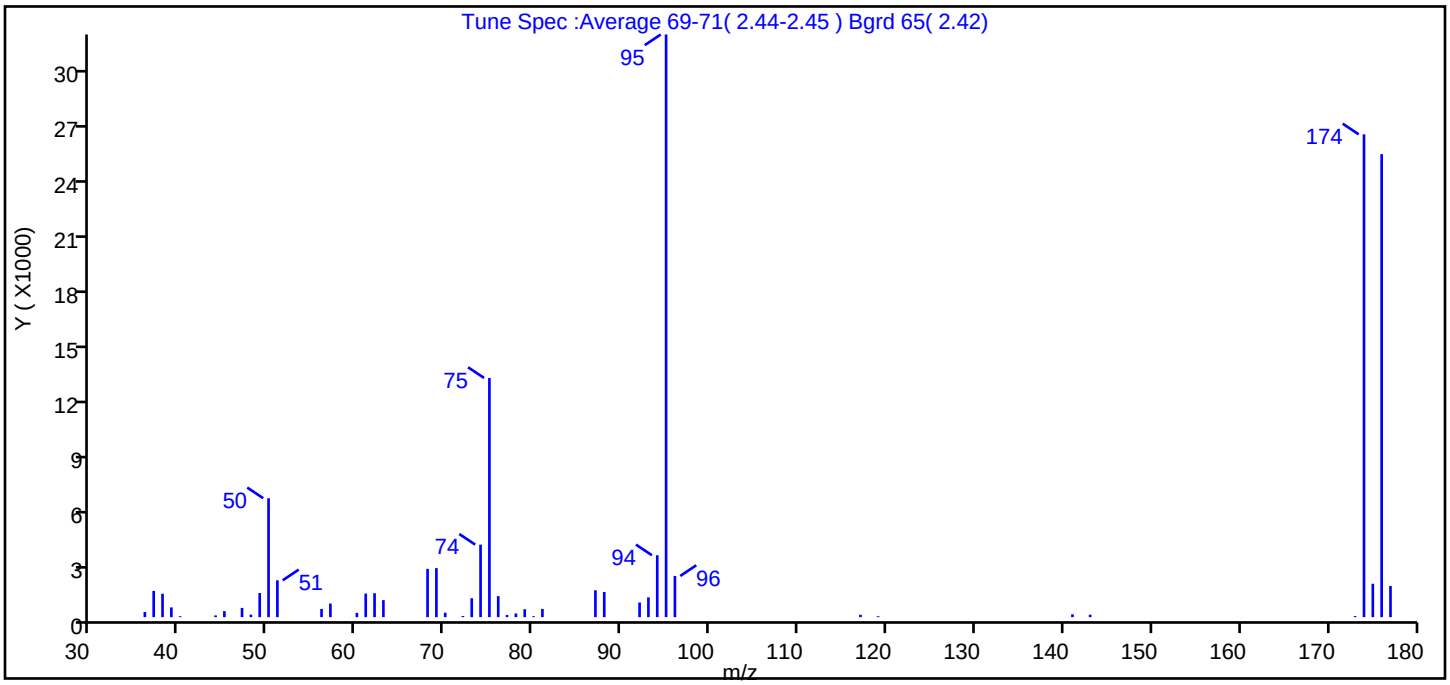
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04905.D
Injection Date: 22-Mar-2018 06:41:54 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.4
75	30 to 60% of m/z 95	41.1
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	5.7 (6.9)
176	Greater than 95% but less than 101% of m/z 174	79.5 (95.9)
177	5 to 9% of m/z 176	5.4 (6.7)

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04905.D\8260W_15.rslt\spectra.d
Injection Date: 22-Mar-2018 06:41:54
Spectrum: Tune Spec :Average 69-71(2.44-2.45) Bgrd 65(2.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	281	56.00	448	75.00	13051	95.00	31792
37.00	1434	57.00	742	76.00	1146	96.00	2247
38.00	1275	60.00	232	77.00	116	117.00	129
39.00	530	61.00	1285	78.00	200	119.00	50
40.00	50	62.00	1306	79.00	431	141.00	154
44.00	94	63.00	928	80.00	52	143.00	136
45.00	330	68.00	2635	81.00	448	173.00	59
47.00	504	69.00	2674	87.00	1465	174.00	26344
48.00	136	70.00	241	88.00	1370	175.00	1821
49.00	1316	72.00	61	92.00	799	176.00	25264
50.00	6489	73.00	1031	93.00	1078	177.00	1702
51.00	2010	74.00	3956	94.00	3377		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80593.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Mar-2018 21:58:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0068588-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Mar-2018 16:12:24 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: delpolitov Date: 11-Mar-2018 16:12:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.306	4.306	0.000	96	29967	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

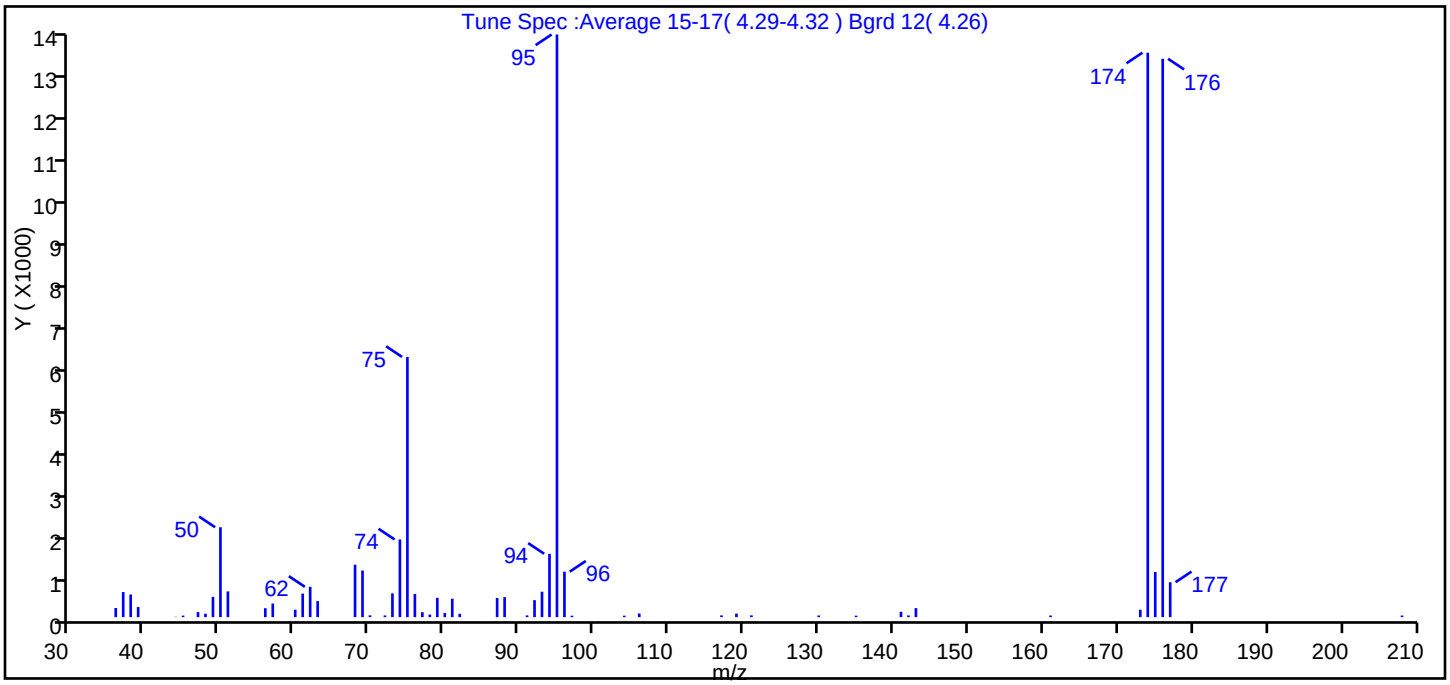
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80593.D
Injection Date: 09-Mar-2018 21:58:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.4
75	30 to 60% of m/z 95	44.7
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	1.3 (1.3)
174	50 to 120% of m/z 95	96.9
175	5 to 9% of m/z 174	7.8 (8.0)
176	Greater than 95% but less than 101% of m/z 174	95.8 (98.9)
177	5 to 9% of m/z 176	6.0 (6.3)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80593.D\8260S9.rslt\spectra.d
Injection Date: 09-Mar-2018 21:58:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	211	62.00	699	82.00	78	130.00	38
37.00	578	63.00	370	87.00	441	135.00	34
38.00	522	68.00	1209	88.00	461	141.00	124
39.00	234	69.00	1075	91.00	40	142.00	39
44.00	7	70.00	42	92.00	392	143.00	208
45.00	36	72.00	39	93.00	586	161.00	38
47.00	117	73.00	548	94.00	1460	173.00	171
48.00	80	74.00	1790	95.00	13426	174.00	13007
49.00	467	75.00	5996	96.00	1048	175.00	1042
50.00	2072	76.00	535	97.00	33	176.00	12866
51.00	594	77.00	114	104.00	33	177.00	805
56.00	206	78.00	59	106.00	84	208.00	37
57.00	314	79.00	445	117.00	40		
60.00	171	80.00	96	119.00	82		
61.00	543	81.00	425	121.00	41		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80980.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-Mar-2018 08:50:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0069025-001				
Operator ID:		Instrument ID:	CVOAMS9		
Method:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	20-Mar-2018 13:12:02	Calib Date:	10-Mar-2018 00:31:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK019				
First Level Reviewer: delpolitov		Date:	20-Mar-2018 13:12:02		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.335	5.335	0.000	0	174	NR	NR	
$ 134 BFB	95	4.295	4.295	0.000	87	45607	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

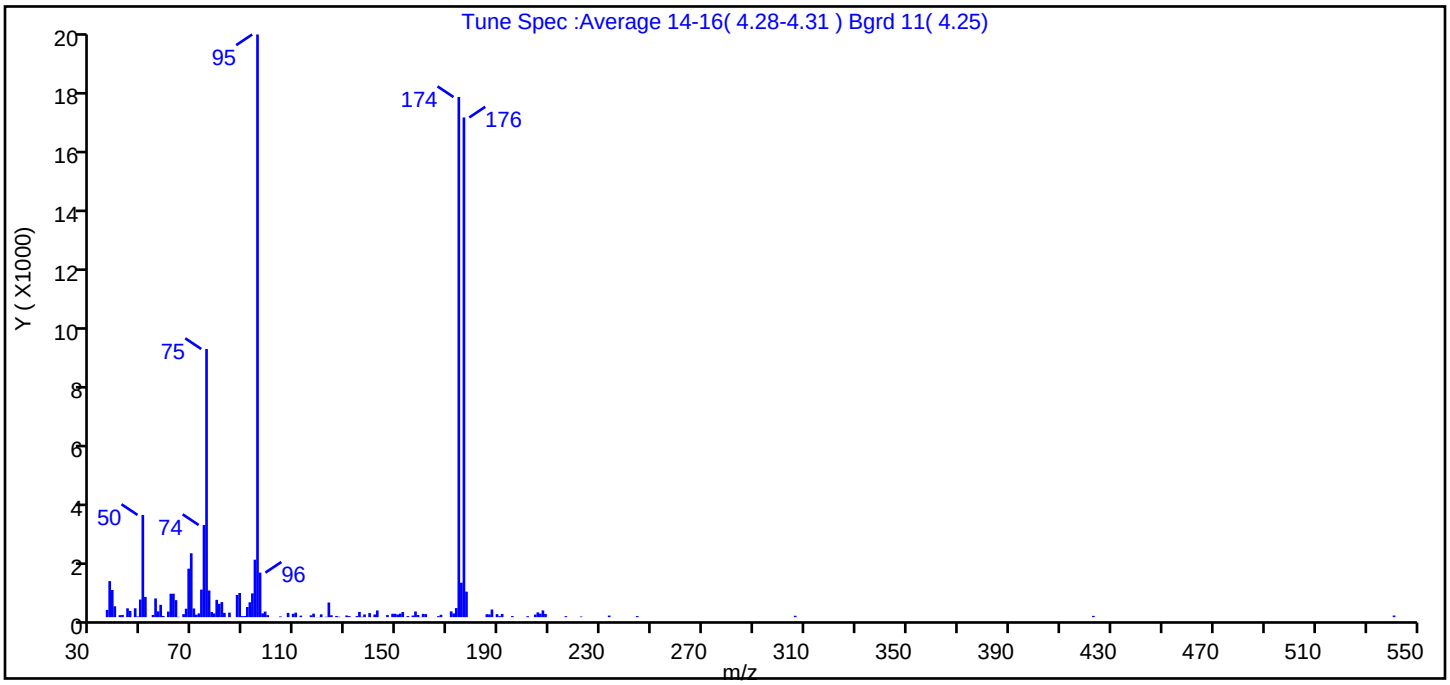
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80980.D
Injection Date: 20-Mar-2018 08:50:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	46.0
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	1.6 (1.7)
174	50 to 120% of m/z 95	89.3
175	5 to 9% of m/z 174	5.9 (6.6)
176	Greater than 95% but less than 101% of m/z 174	85.8 (96.1)
177	5 to 9% of m/z 176	4.4 (5.1)

Report Date: 20-Mar-2018 13:12:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80980.D\8260S9.rslt\spectra.d
Injection Date: 20-Mar-2018 08:50:30
Spectrum: Tune Spec :Average 14-16(4.28-4.31) Bgrd 11(4.25)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	241	73.00	916	117.00	115	166.00	35
37.00	1199	74.00	3064	119.00	6	167.00	78
38.00	903	75.00	8918	120.00	92	171.00	193
39.00	361	76.00	887	122.00	13	172.00	125
41.00	65	77.00	171	123.00	487	173.00	302
42.00	71	78.00	124	124.00	62	174.00	17296
44.00	294	79.00	575	126.00	40	175.00	1145
45.00	208	80.00	441	127.00	15	176.00	16616
47.00	295	81.00	502	130.00	55	177.00	849
48.00	22	82.00	143	131.00	34	185.00	97
49.00	586	84.00	150	134.00	35	186.00	91
50.00	3399	87.00	738	135.00	174	187.00	255
51.00	672	88.00	803	136.00	12	189.00	100
54.00	73	89.00	35	137.00	89	190.00	33
55.00	622	90.00	38	139.00	135	191.00	106
56.00	193	91.00	337	141.00	88	195.00	36
57.00	410	92.00	494	142.00	222	201.00	31
58.00	40	93.00	791	146.00	69	204.00	85
60.00	186	94.00	1911	148.00	113	205.00	159
61.00	778	95.00	19376	149.00	111	206.00	115
62.00	780	96.00	1480	150.00	88	207.00	224
63.00	566	97.00	127	151.00	116	208.00	107
64.00	9	98.00	184	152.00	171	216.00	33
66.00	100	99.00	67	154.00	35	222.00	21
67.00	281	104.00	24	156.00	53	233.00	52
68.00	1612	107.00	141	157.00	189	244.00	36
69.00	2125	109.00	112	158.00	71	306.00	46
70.00	288	110.00	149	159.00	6	423.00	42
71.00	81	112.00	50	160.00	109	541.00	54
72.00	124	116.00	61	161.00	102		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504711/8

Matrix: Solid | Lab File ID: K80987.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 12:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023
79-34-5	1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030
79-00-5	1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018
75-34-3	1,1-Dichloroethane	0.00021	U	0.0010	0.00021
75-35-4	1,1-Dichloroethene	0.00023	U	0.0010	0.00023
87-61-6	1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018
120-82-1	1,2,4-Trichlorobenzene	0.000092	U	0.0010	0.000092
95-63-6	1,2,4-Trimethylbenzene	0.000094	U	0.0010	0.000094
96-12-8	1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046
95-50-1	1,2-Dichlorobenzene	0.00014	U	0.0010	0.00014
107-06-2	1,2-Dichloroethane	0.00030	U	0.0010	0.00030
78-87-5	1,2-Dichloropropane	0.00042	U	0.0010	0.00042
108-67-8	1,3,5-Trimethylbenzene	0.00012	U	0.0010	0.00012
541-73-1	1,3-Dichlorobenzene	0.00016	U	0.0010	0.00016
106-46-7	1,4-Dichlorobenzene	0.00010	U	0.0010	0.00010
78-93-3	2-Butanone (MEK)	0.0011	U	0.0050	0.0011
591-78-6	2-Hexanone	0.00078	U	0.0050	0.00078
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00066	U	0.0050	0.00066
67-64-1	Acetone	0.00648		0.0050	0.0038
107-02-8	Acrolein	0.028	U	0.10	0.028
107-13-1	Acrylonitrile	0.0016	U	0.010	0.0016
71-43-2	Benzene	0.00026	U	0.0010	0.00026
75-25-2	Bromoform	0.00043	U	0.0010	0.00043
74-83-9	Bromomethane	0.00047	U	0.0010	0.00047
75-15-0	Carbon disulfide	0.00027	U	0.0010	0.00027
56-23-5	Carbon tetrachloride	0.00018	U	0.0010	0.00018
108-90-7	Chlorobenzene	0.00018	U	0.0010	0.00018
74-97-5	Chlorobromomethane	0.00028	U	0.0010	0.00028
124-48-1	Chlorodibromomethane	0.00019	U	0.0010	0.00019
75-00-3	Chloroethane	0.00052	U	0.0010	0.00052
67-66-3	Chloroform	0.00032	U	0.0010	0.00032
74-87-3	Chloromethane	0.00044	U	0.0010	0.00044
156-59-2	cis-1,2-Dichloroethene	0.00015	U	0.0010	0.00015
10061-01-5	cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504711/8

Matrix: Solid | Lab File ID: K80987.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 12:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.00022	U	0.0010	0.00022
75-27-4	Dichlorobromomethane	0.00026	U	0.0010	0.00026
75-71-8	Dichlorodifluoromethane	0.00034	U	0.0010	0.00034
100-41-4	Ethylbenzene	0.00020	U	0.0010	0.00020
106-93-4	Ethylene Dibromide	0.00018	U	0.0010	0.00018
98-82-8	Isopropylbenzene	0.00013	U	0.0010	0.00013
79-20-9	Methyl acetate	0.0043	U	0.0050	0.0043
1634-04-4	Methyl tert-butyl ether	0.00013	U	0.0010	0.00013
108-87-2	Methylcyclohexane	0.00016	U	0.0010	0.00016
75-09-2	Methylene Chloride	0.000272	J	0.0010	0.00016
179601-23-1	m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017
104-51-8	n-Butylbenzene	0.00014	U	0.0010	0.00014
103-65-1	N-Propylbenzene	0.00018	U	0.0010	0.00018
95-47-6	o-Xylene	0.000095	U	0.0010	0.000095
135-98-8	sec-Butylbenzene	0.000088	U	0.0010	0.000088
100-42-5	Styrene	0.00012	U	0.0010	0.00012
98-06-6	tert-Butylbenzene	0.00012	U	0.0010	0.00012
127-18-4	Tetrachloroethene	0.00014	U	0.0010	0.00014
108-88-3	Toluene	0.00063	U	0.0010	0.00063
156-60-5	trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025
10061-02-6	trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027
79-01-6	Trichloroethene	0.00014	U	0.0010	0.00014
75-69-4	Trichlorofluoromethane	0.00041	U	0.0010	0.00041
75-01-4	Vinyl chloride	0.00055	U	0.0010	0.00055
1330-20-7	Xylenes, Total	0.00025	U	0.0020	0.00025

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		78-135
460-00-4	4-Bromofluorobenzene	103		67-126
1868-53-7	Dibromofluoromethane (Surr)	106		61-149
2037-26-5	Toluene-d8 (Surr)	104		73-121

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-504711/8

Matrix: Solid Lab File ID: K80987.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/20/2018 12:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 504711 Units: mg/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 20-Mar-2018 12:07:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0069025-008
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Mar-2018 13:17:38 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 20-Mar-2018 13:17:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Acetone	43	3.004	3.004	0.000	84	6734		6.48	
* 25 TBA-d9 (IS)	65	3.358	3.352	0.006	0	286810	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	12	861		0.2719	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	221668	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	96	152418	50.0	53.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.309	5.303	0.006	0	159484	50.0	56.3	
* 61 Fluorobenzene	96	5.583	5.577	0.006	99	415779	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	19832	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.266	7.266	0.000	98	511064	50.0	51.9	
* 89 Chlorobenzene-d5	117	9.076	9.070	0.006	85	340942	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	93	173225	50.0	51.6	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	95	203145	50.0	50.0	

Reagents:

8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

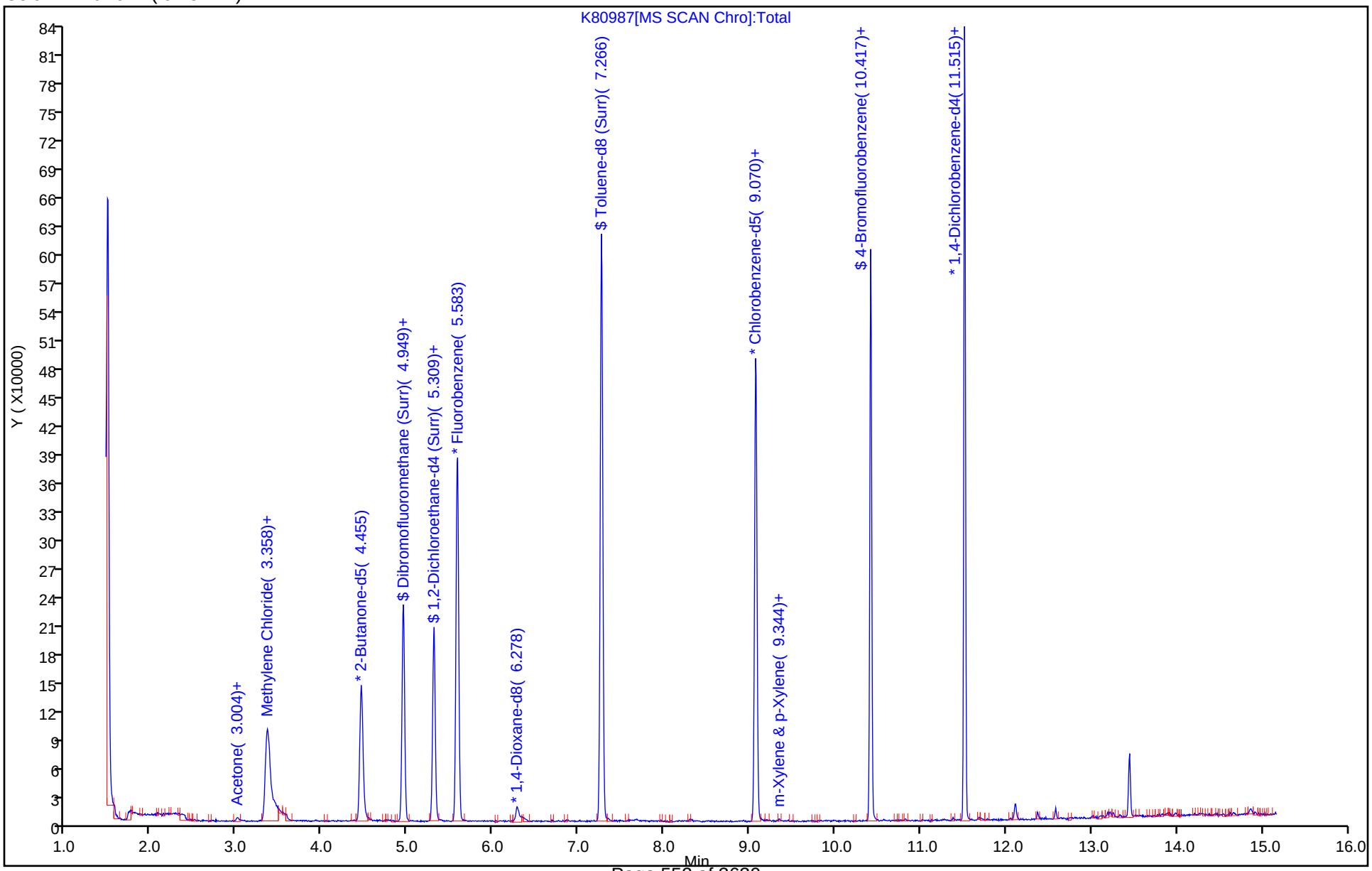
Report Date: 20-Mar-2018 13:17:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D

Injection Date:	20-Mar-2018 12:07:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Report Date: 20-Mar-2018 13:17:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D

Injection Date: 20-Mar-2018 12:07:30 Instrument ID: CVOAMS9

Lims ID: MB

Client ID:

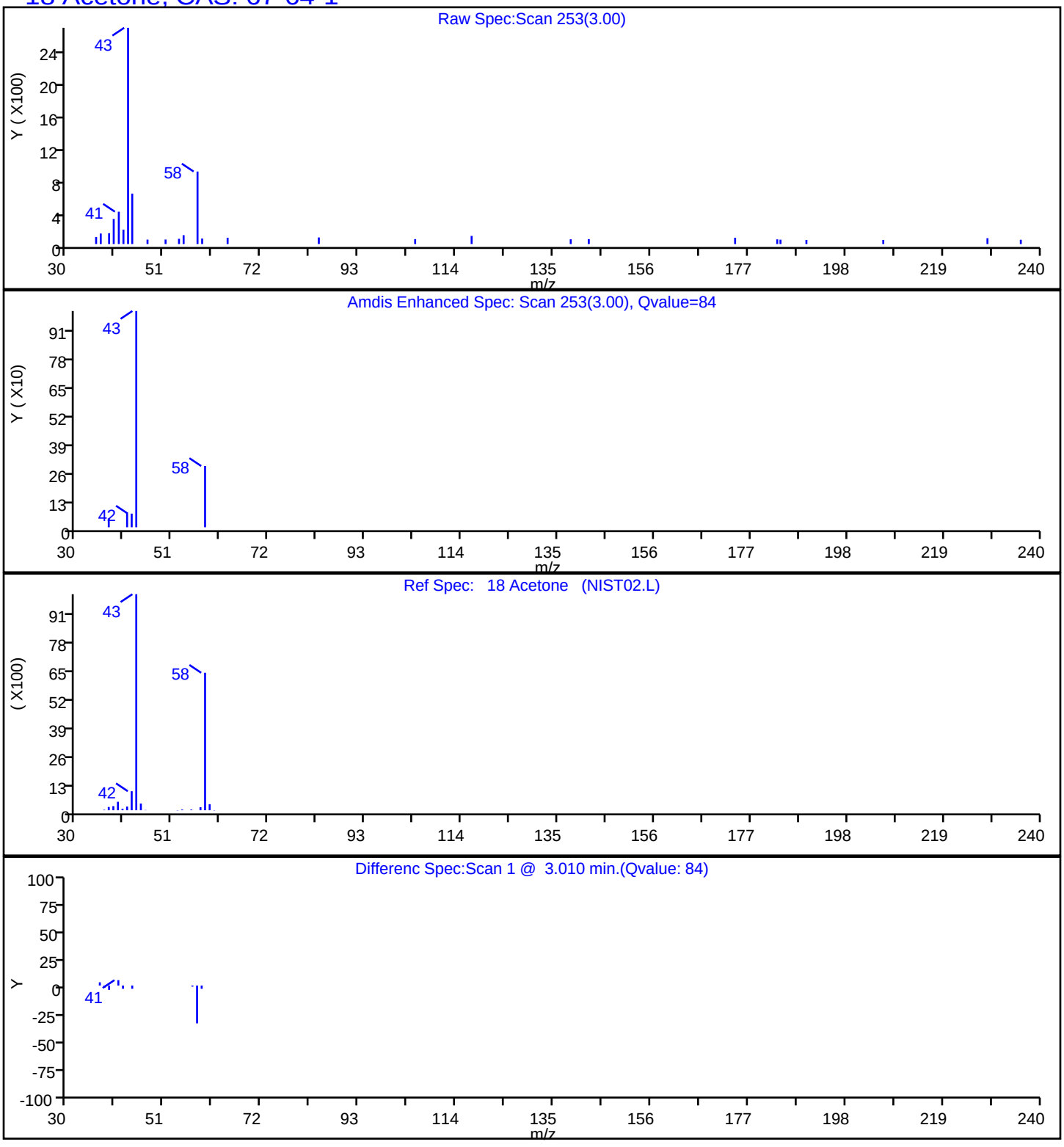
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1



Report Date: 20-Mar-2018 13:17:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D

Injection Date: 20-Mar-2018 12:07:30 Instrument ID: CVOAMS9

Lims ID: MB

Client ID:

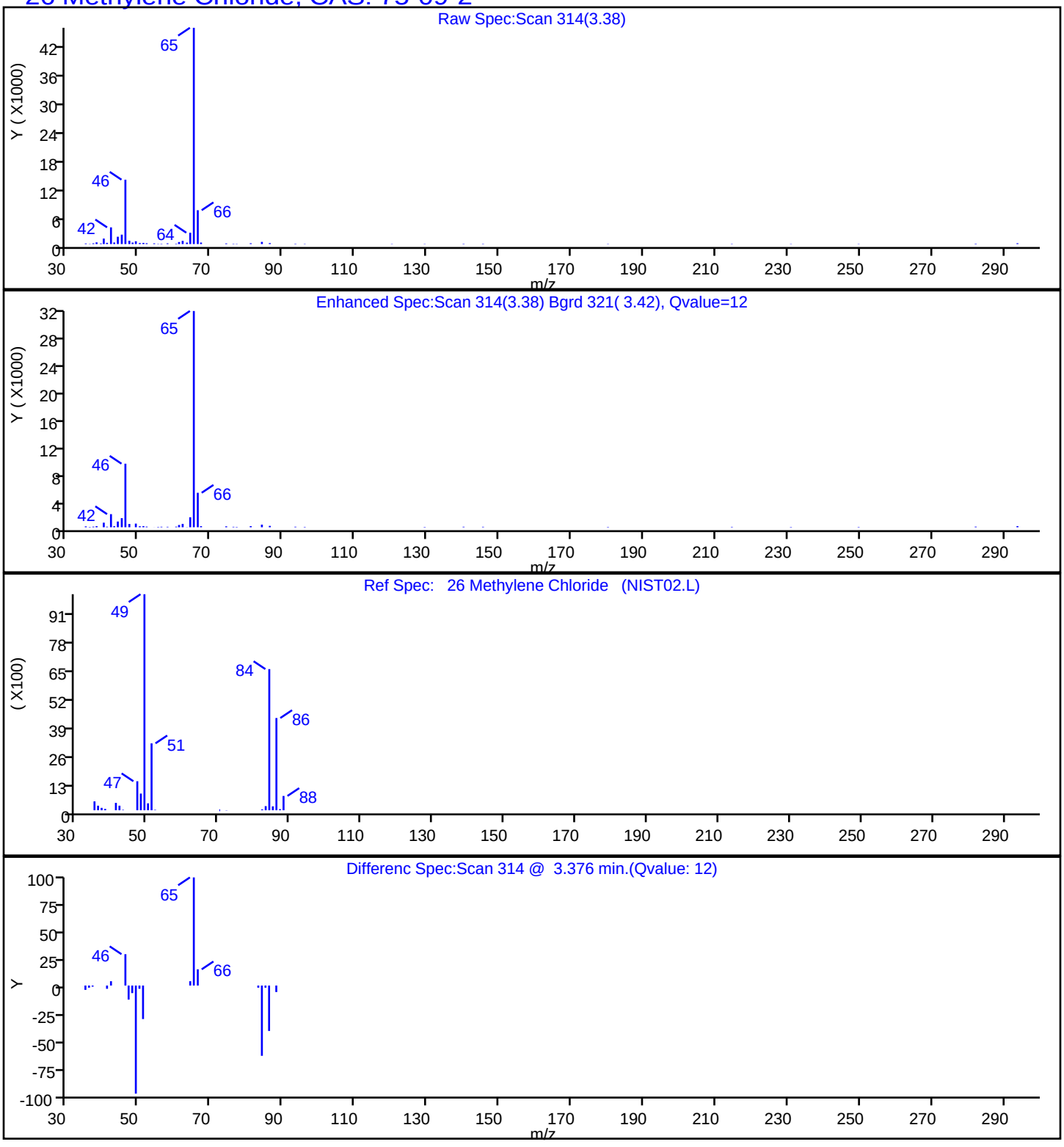
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



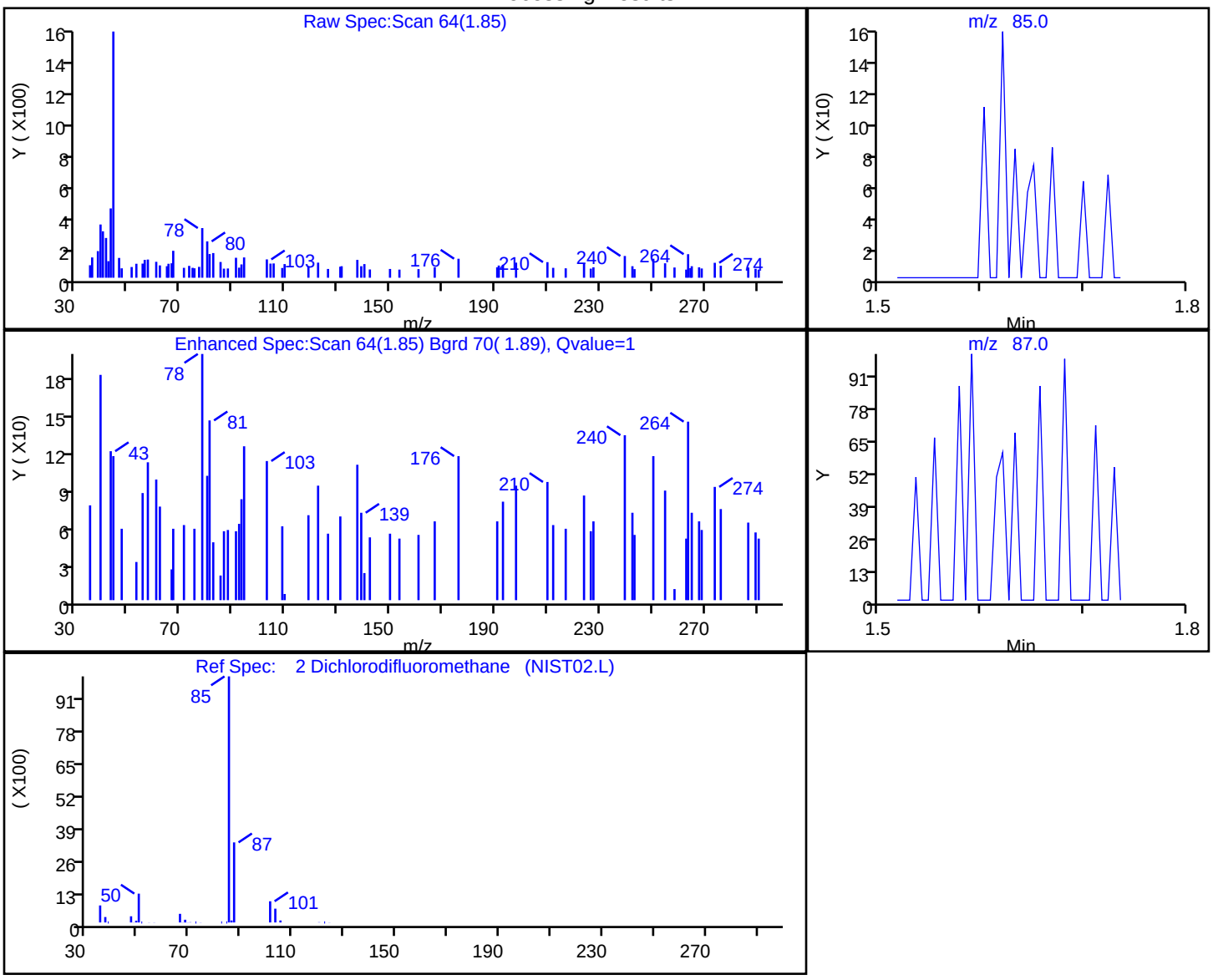
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D				
Injection Date:	20-Mar-2018 12:07:30	Instrument ID:	CVOAMS9		
Lims ID:	MB				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.85	85.00	131	0.447049
1.86	87.00	62	

Reviewer: delpolitov, 20-Mar-2018 13:17:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

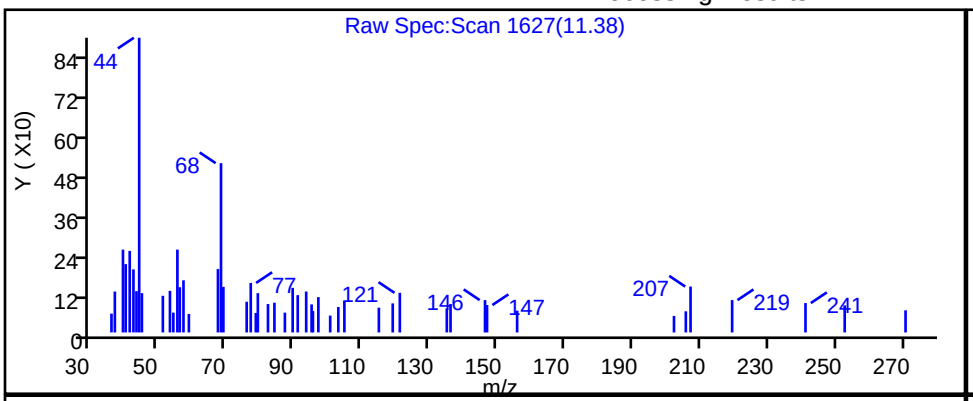
User Disabled Compound Report

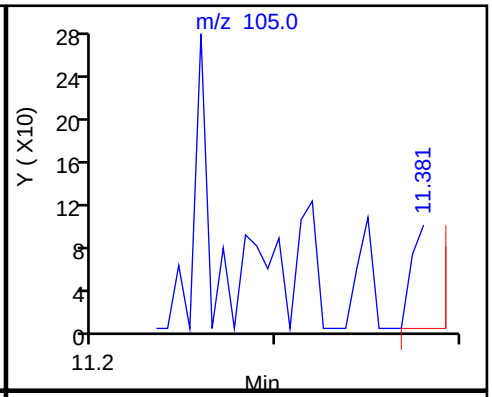
TestAmerica Edison

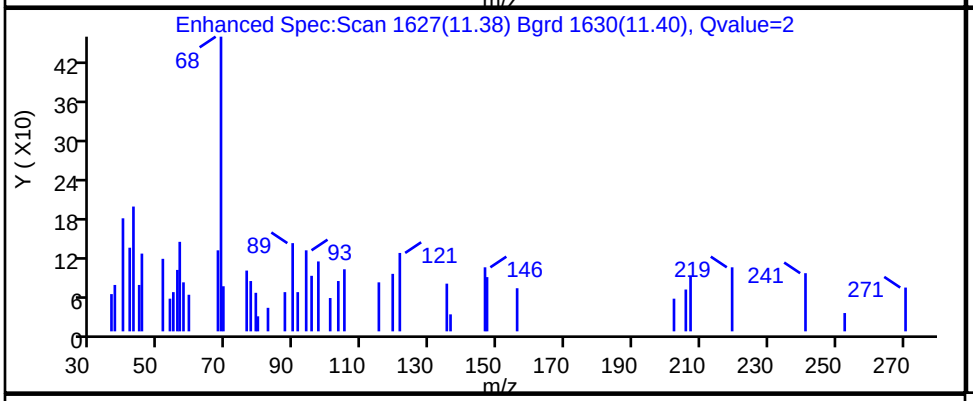
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80987.D		
Injection Date:	20-Mar-2018 12:07:30	Instrument ID:	CVOAMS9
Lims ID:	MB		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

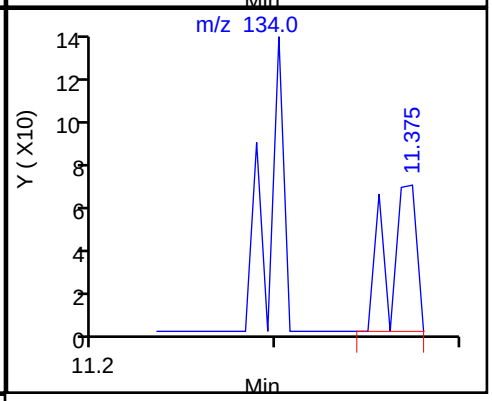
113 sec-Butylbenzene, CAS: 135-98-8

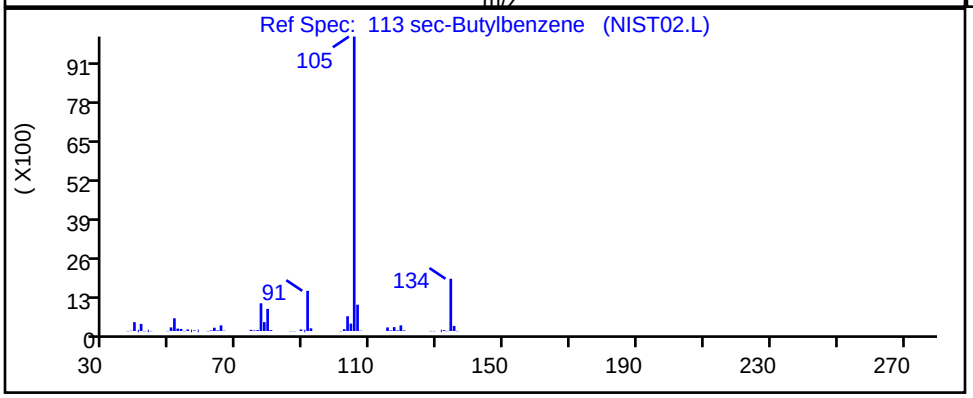
Processing Results











RT	Mass	Response	Amount
11.38	105.00	80	0.410560
11.37	134.00	70	

Reviewer: delpolitov, 20-Mar-2018 13:17:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504963/7

Matrix: Solid | Lab File ID: P42883.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2018 10:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504963 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
71-43-2	Benzene	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
67-66-3	Chloroform	0.22	U	1.0	0.22
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-01-4	Vinyl chloride	0.20	U	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		74-132
460-00-4	4-Bromofluorobenzene	107		77-124
1868-53-7	Dibromofluoromethane (Surr)	120		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42883.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2018 10:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0069071-007
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 13:23:01 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 22-Mar-2018 13:23:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Acetone	43	1.916	1.916	0.000	0	1890		1.60	M
* 29 TBA-d9 (IS)	65	2.067	2.074	-0.007	0	208537	1000.0	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	115968	50.0	60.0	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	179749	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	122650	50.0	56.0	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	237312	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.567	4.574	-0.007	0	23262	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	513016	50.0	51.2	
* 92 Chlorobenzene-d5	117	7.110	7.102	0.008	85	349063	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	95	156661	50.0	53.5	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	211579	50.0	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260ISNEW_00121 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 13:23:02 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42883.D

Injection Date: 21-Mar-2018 10:58:30 Instrument ID: CVOAMS13 Operator ID:

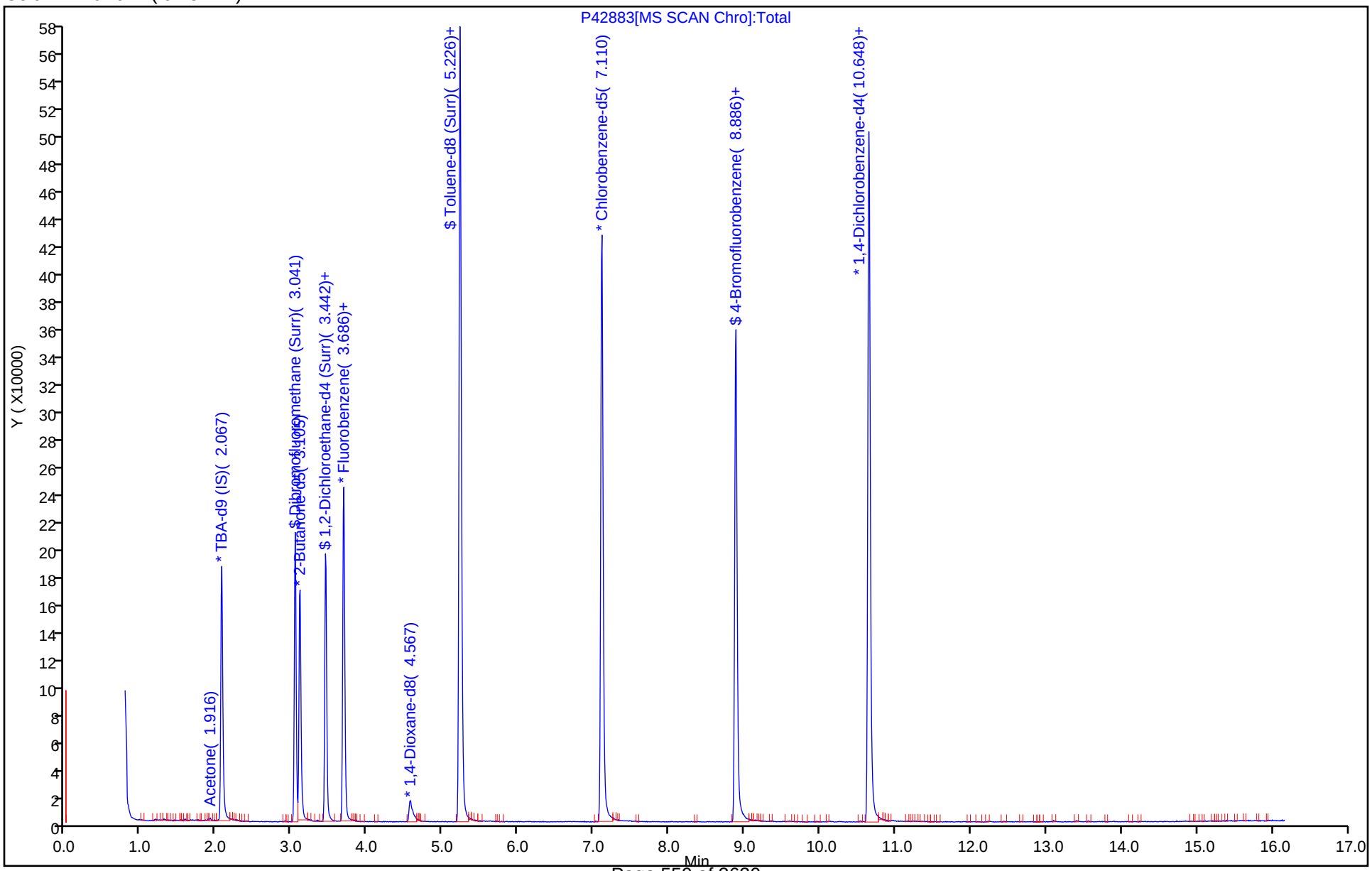
Lims ID: MB Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505144/7

Matrix: Water | Lab File ID: P42912.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	0.23	U	1.0	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	U	5.0	1.1
107-02-8	Acrolein	0.88	U	4.0	0.88
107-13-1	Acrylonitrile	1.0	U	2.0	1.0
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505144/7

Matrix: Water | Lab File ID: P42912.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
104-51-8	n-Butylbenzene	0.27	U	1.0	0.27
103-65-1	N-Propylbenzene	0.29	U	1.0	0.29
95-47-6	o-Xylene	0.32	U	1.0	0.32
135-98-8	sec-Butylbenzene	0.31	U	1.0	0.31
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.28	U	1.0	0.28
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
1868-53-7	Dibromofluoromethane (Surr)	113		72-131
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505144/7

Matrix: Water | Lab File ID: P42912.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42912.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 09:18:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0069112-007
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 18:05:12 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: baronm Date: 22-Mar-2018 18:05:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 29 TBA-d9 (IS)	65	2.067	2.081	-0.014	0	198457	1000.0	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	112876	50.0	56.4	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	170591	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	118397	50.0	52.2	
* 62 Fluorobenzene	96	3.686	3.686	0.000	100	245995	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	23145	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	491533	50.0	46.9	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	84	365158	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.879	0.007	94	151645	50.0	49.5	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	227173	50.0	50.0	

Reagents:

8260ISNEW_00121 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent

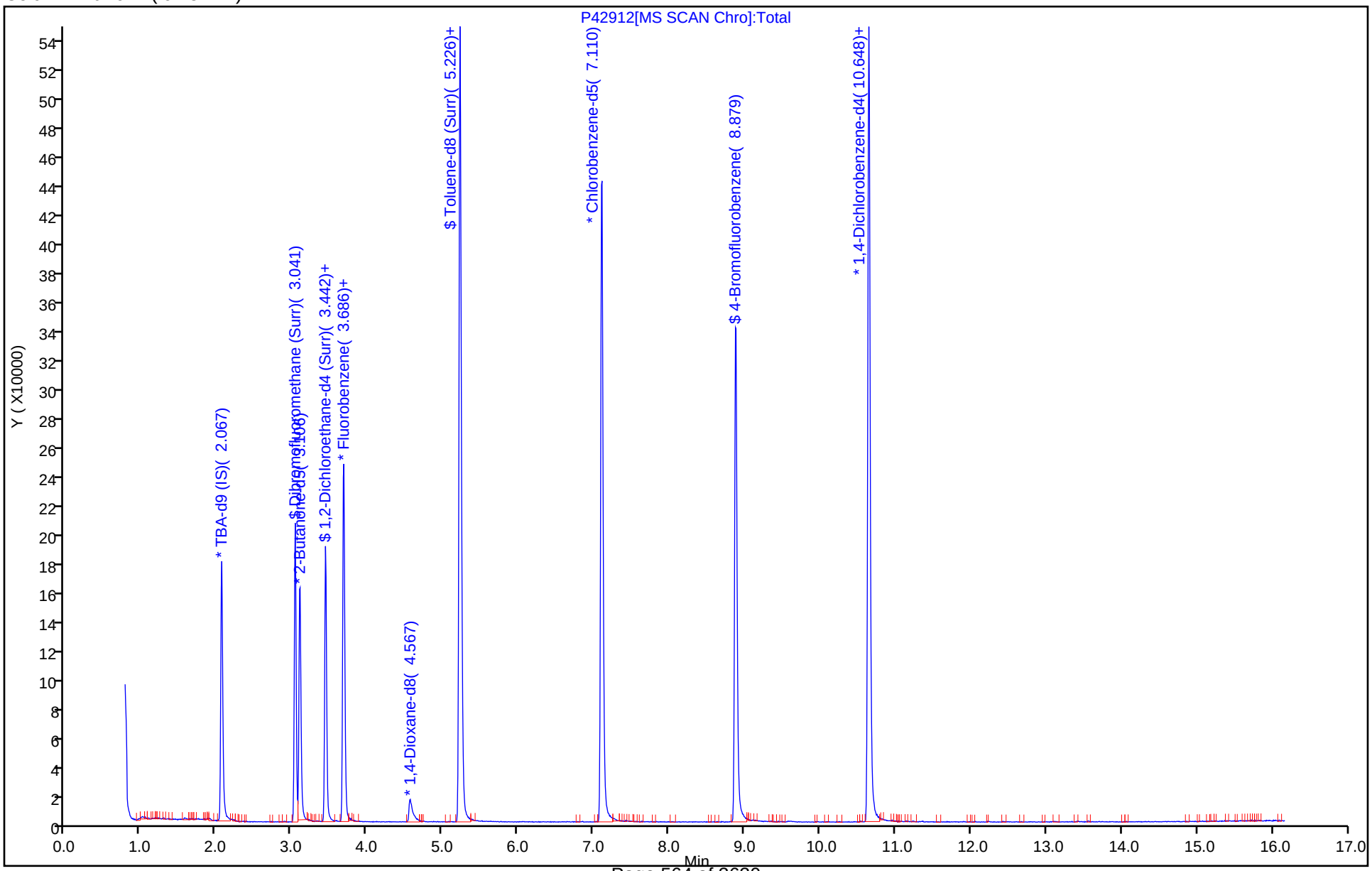
Report Date: 22-Mar-2018 18:05:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42912.D

Injection Date:	22-Mar-2018 09:18:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



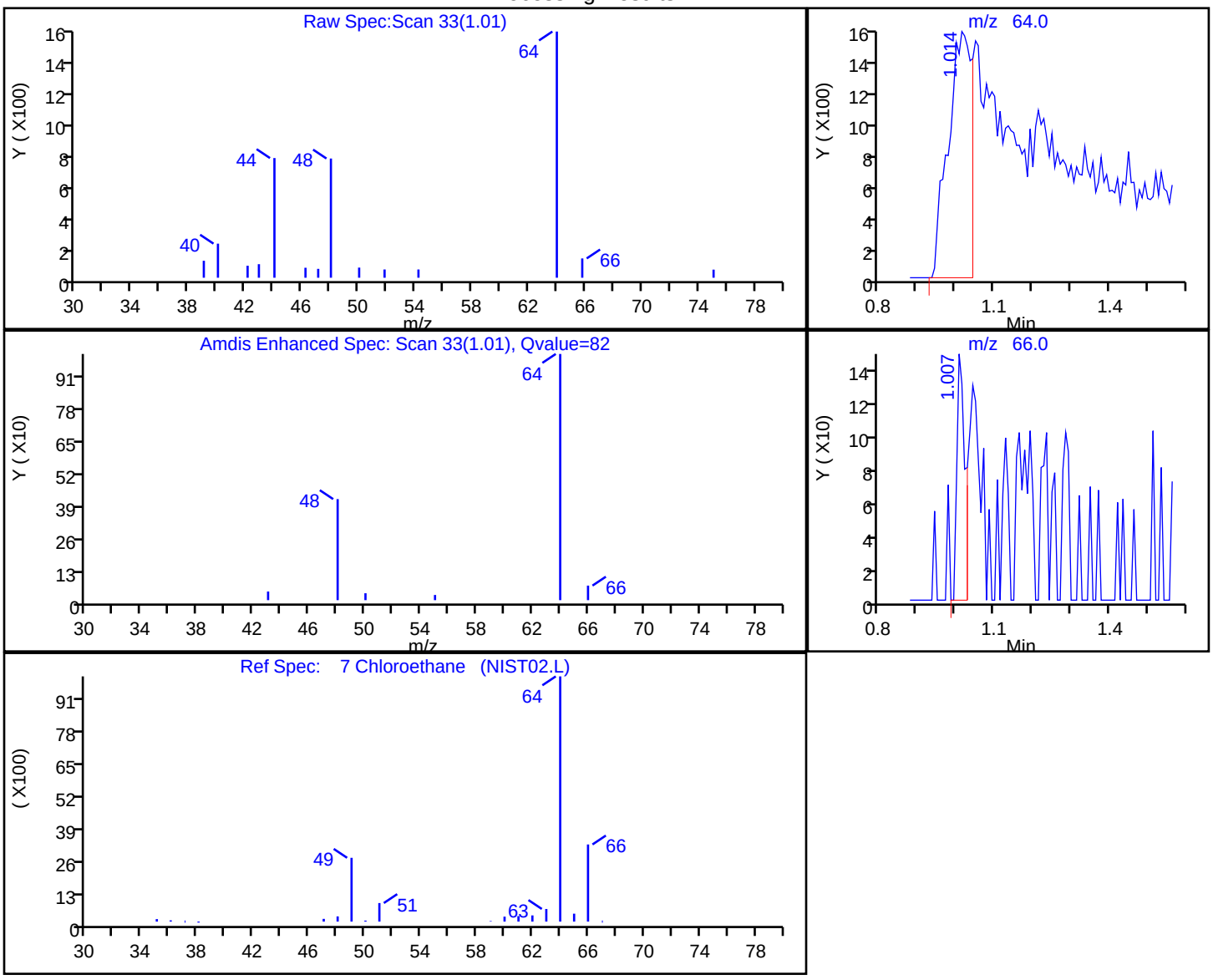
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42912.D
Injection Date: 22-Mar-2018 09:18:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.01	64.00	6768	3.565324
1.01	66.00	208	

Reviewer: desais, 22-Mar-2018 10:10:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505151/7

Matrix: Solid | Lab File ID: T04911.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 09:16

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 505151 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
71-43-2	Benzene	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
67-66-3	Chloroform	0.22	U	1.0	0.22
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-01-4	Vinyl chloride	0.20	U	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
1868-53-7	Dibromofluoromethane (Surr)	90		72-131
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04911.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 09:16:22 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 18:09:47 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK032

First Level Reviewer: baronm Date: 22-Mar-2018 18:09:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Acetone	43	1.846	1.846	0.000	63	1946		1.60	
* 27 TBA-d9 (IS)	66	2.155	2.161	-0.006	98	53350	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.030	3.031	-0.001	99	445489	250.0	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	120395	50.0	44.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.775	3.770	0.005	85	138769	50.0	45.4	
* 61 Fluorobenzene	96	4.100	4.101	-0.001	99	533466	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.824	4.824	0.000	31	39059	1000.0	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.872	5.873	-0.001	98	467203	50.0	49.8	
* 90 Chlorobenzene-d5	117	7.817	7.818	-0.001	85	406021	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	150007	50.0	49.2	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.504	0.005	95	215916	50.0	50.0	

Reagents:

VOA6IS ONLY_00006 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00003 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 18:09:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04911.D

Injection Date: 22-Mar-2018 09:16:22 Instrument ID: CVOAMS15

Lims ID: MB

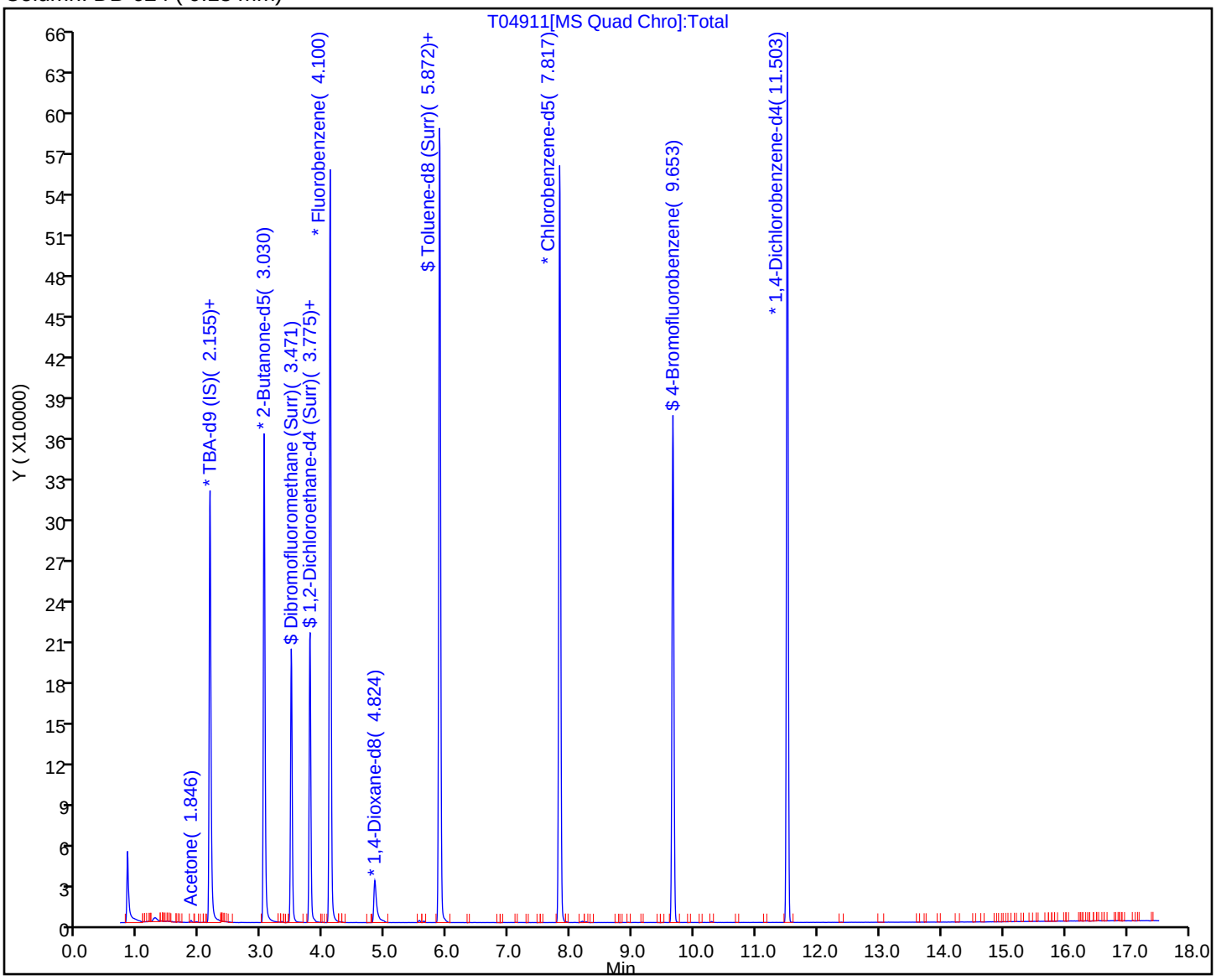
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



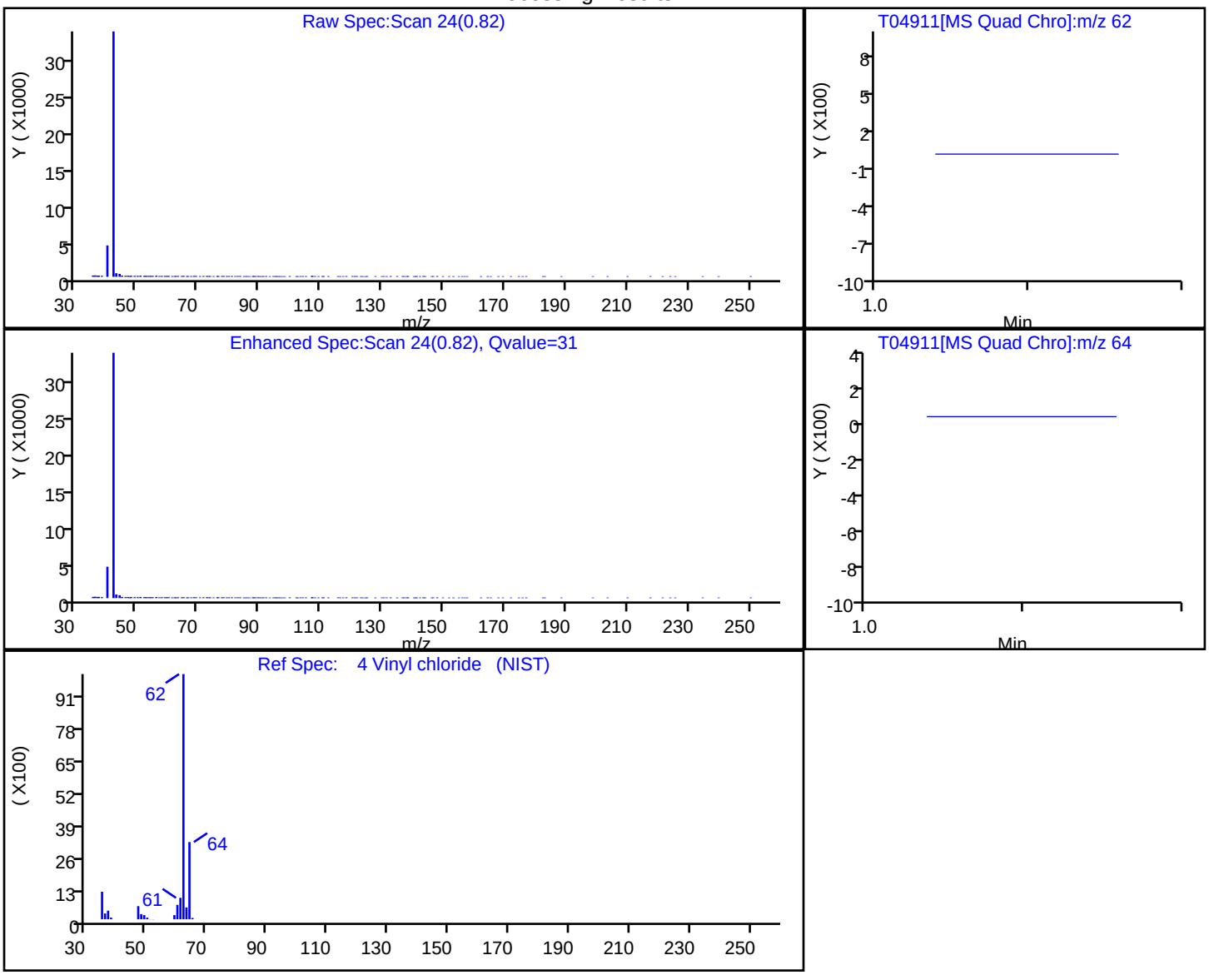
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04911.D
Injection Date: 22-Mar-2018 09:16:22 Instrument ID: CVOAMS15
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.82	62.00	154	0.075338
0.82	64.00	139	

Reviewer: desais, 22-Mar-2018 09:59:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 460-504821/1-A

Matrix: Solid (TCLP) | Lab File ID: P42885.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2018 11:48

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504963 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	3.4	U	10	3.4
107-06-2	1,2-Dichloroethane	2.5	U	10	2.5
106-46-7	1,4-Dichlorobenzene	3.3	U	10	3.3
78-93-3	2-Butanone (MEK)	22	U	50	22
71-43-2	Benzene	1.9	U	10	1.9
56-23-5	Carbon tetrachloride	3.3	U	10	3.3
108-90-7	Chlorobenzene	2.4	U	10	2.4
67-66-3	Chloroform	2.2	U	10	2.2
127-18-4	Tetrachloroethene	3.6	U	10	3.6
79-01-6	Trichloroethene	2.2	U	10	2.2
75-01-4	Vinyl chloride	2.0	U	10	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
1868-53-7	Dibromofluoromethane (Surr)	109		72-131
2037-26-5	Toluene-d8 (Surr)	95		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42885.D
Lims ID: LB 460-504821/1-A
Client ID:
Sample Type: LB
Inject. Date: 21-Mar-2018 11:48:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: LB 460-504821/1-A
Misc. Info.: 460-0069071-009
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Mar-2018 14:39:52 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: baronm Date: 21-Mar-2018 14:37:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 Methylene Chloride	84	1.888	1.888	0.000	91	18851		6.65	
24 Acetone	43	1.916	1.916	0.000	87	2547		2.44	
* 29 TBA-d9 (IS)	65	2.067	2.074	-0.007	0	228439	1000.0	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	115652	50.0	54.5	
* 49 2-Butanone-d5	46	3.098	3.105	-0.007	0	193612	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	122662	50.0	51.0	
* 62 Fluorobenzene	96	3.686	3.686	0.000	100	260734	50.0	50.0	
63 Isopropyl acetate	43	3.757	3.750	0.007	98	3625		0.7701	
* 72 1,4-Dioxane-d8	96	4.574	4.574	0.000	0	25867	1000.0	1000.0	
75 n-Propyl acetate	43	4.738	4.731	0.007	97	35813		10.3	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	509739	50.0	47.5	
90 n-Butyl acetate	43	6.773	6.751	0.022	97	2099		0.4200	
* 92 Chlorobenzene-d5	117	7.109	7.102	0.007	83	373791	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	94	154754	50.0	49.4	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	230211	50.0	50.0	

Reagents:

8260ISNEW_00121 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00169 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 14:40:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42885.D

Injection Date: 21-Mar-2018 11:48:30 Instrument ID: CVOAMS13 Operator ID:

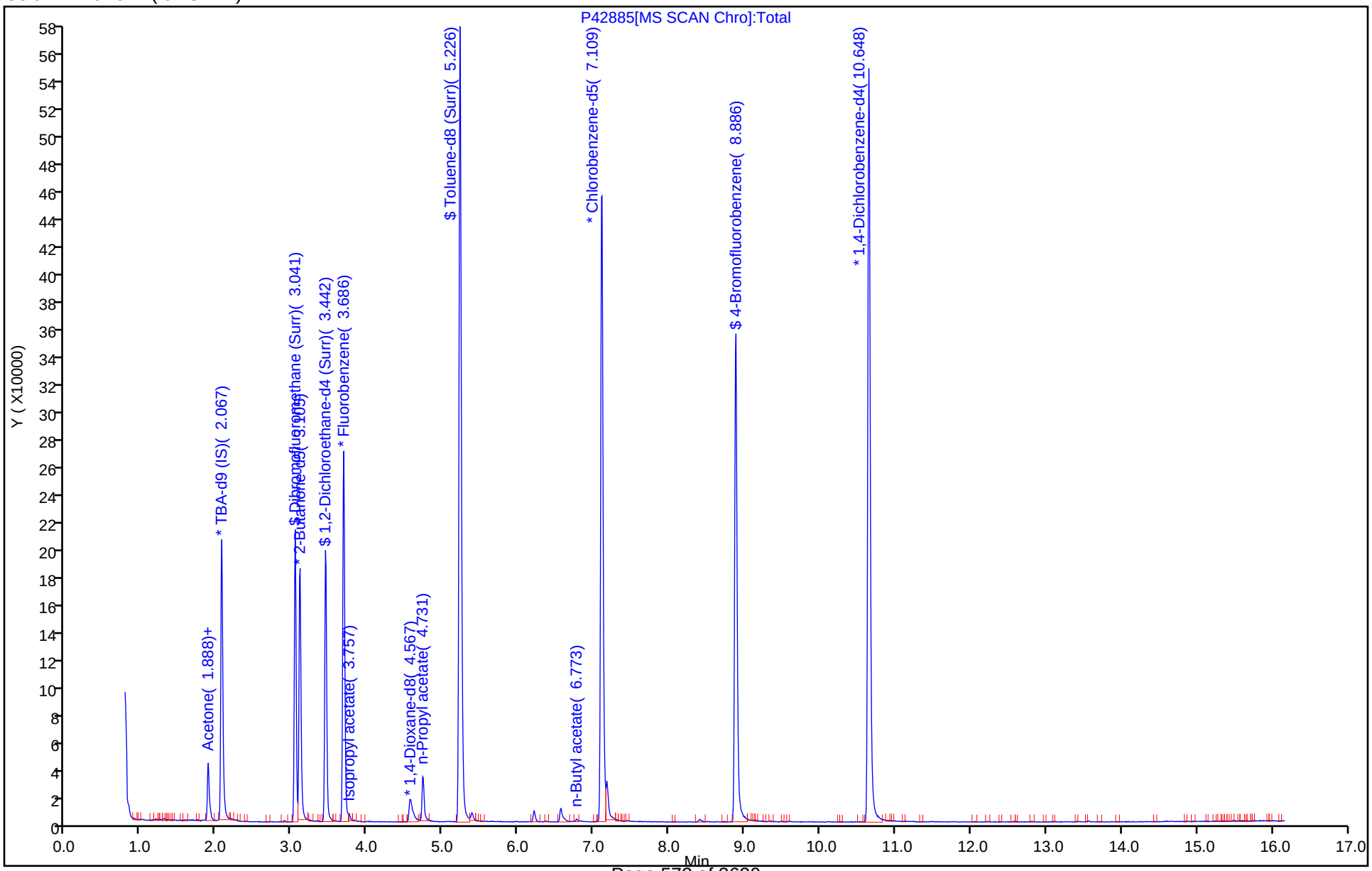
Lims ID: LB 460-504821/1-A Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 10.0000 ALS Bottle#: 8

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Report Date: 21-Mar-2018 14:40:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

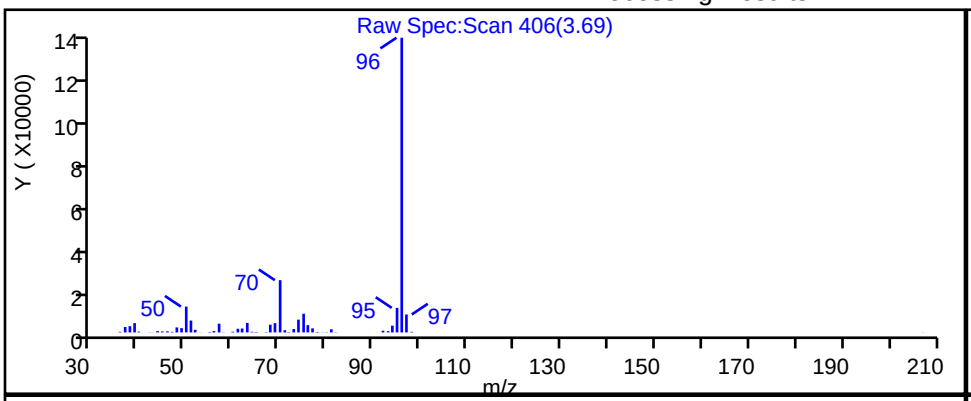
User Disabled Compound Report

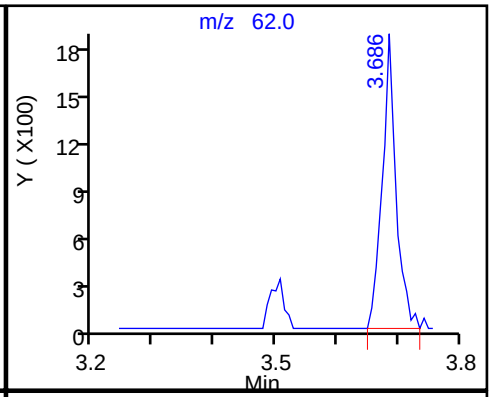
TestAmerica Edison

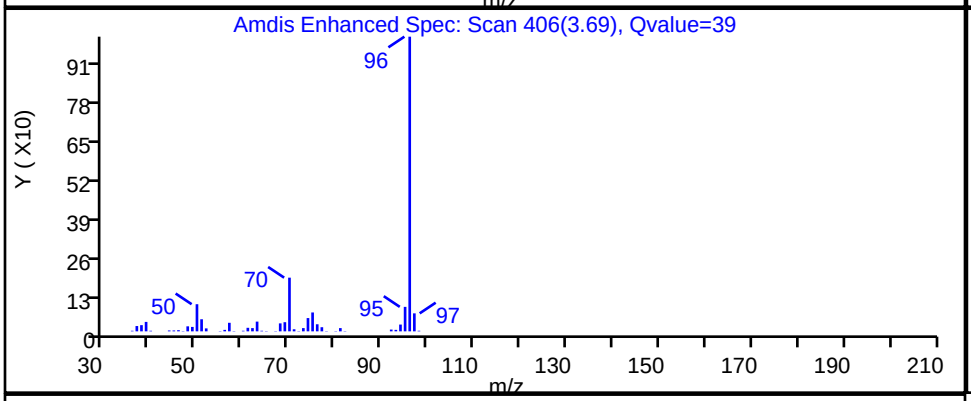
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42885.D		
Injection Date:	21-Mar-2018 11:48:30	Instrument ID:	CVOAMS13
Lims ID:	LB 460-504821/1-A		
Client ID:			
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

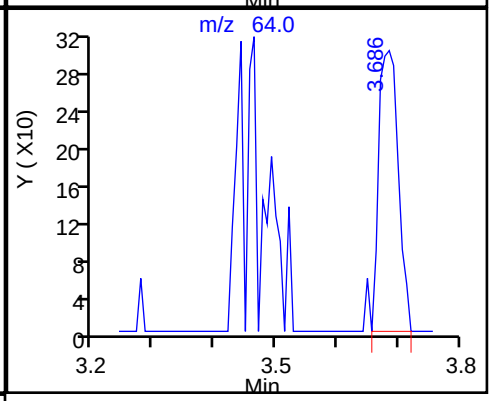
59 1,2-Dichloroethane, CAS: 107-06-2

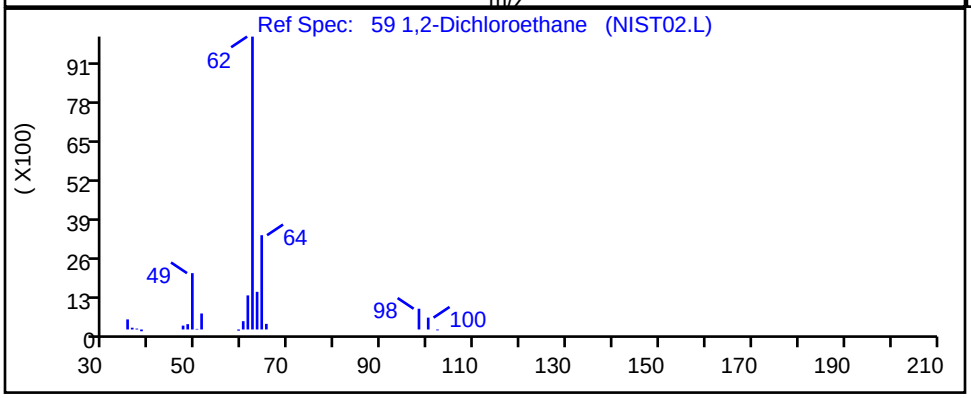
Processing Results











RT	Mass	Response	Amount
3.69	62.00	2881	0.905222
3.69	64.00	672	

Reviewer: baronm, 21-Mar-2018 14:37:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

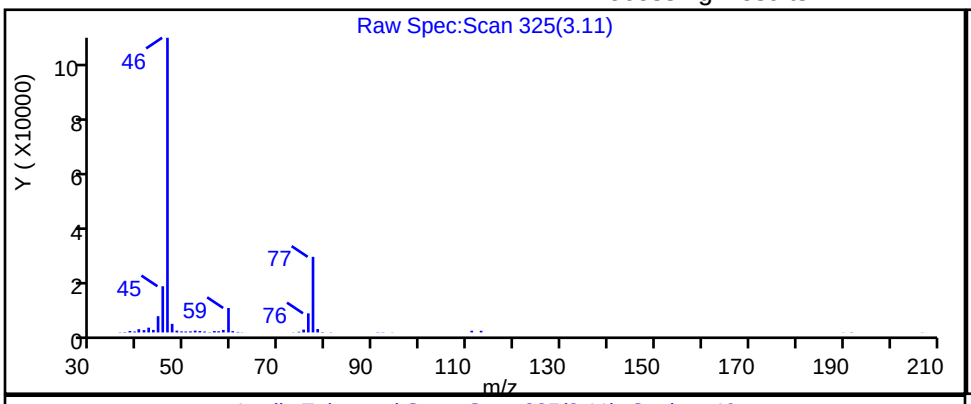
User Disabled Compound Report

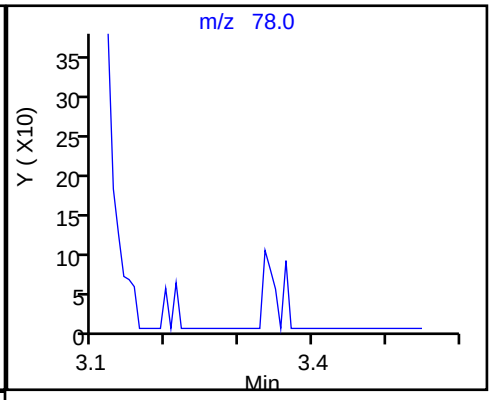
TestAmerica Edison

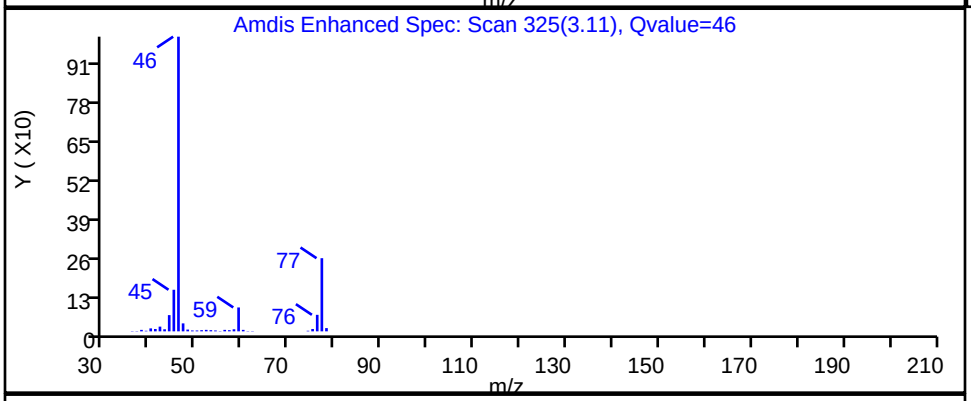
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42885.D
Injection Date: 21-Mar-2018 11:48:30 Instrument ID: CVOAMS13
Lims ID: LB 460-504821/1-A
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

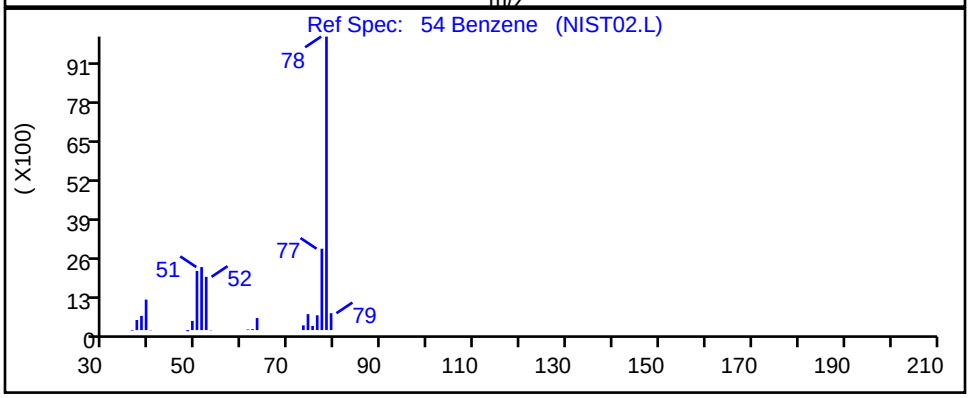
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.11	78.00	2082	0.176843

Reviewer: baronm, 21-Mar-2018 14:37:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504711/4

Matrix: Solid | Lab File ID: K80983.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 10:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.0197		0.0010	0.00023
79-34-5	1,1,2,2-Tetrachloroethane	0.0213		0.0010	0.00021
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0184		0.0010	0.00030
79-00-5	1,1,2-Trichloroethane	0.0210		0.0010	0.00018
75-34-3	1,1-Dichloroethane	0.0246		0.0010	0.00021
75-35-4	1,1-Dichloroethene	0.0190		0.0010	0.00023
87-61-6	1,2,3-Trichlorobenzene	0.0207		0.0010	0.00018
120-82-1	1,2,4-Trichlorobenzene	0.0212		0.0010	0.000092
95-63-6	1,2,4-Trimethylbenzene	0.0195		0.0010	0.000094
96-12-8	1,2-Dibromo-3-Chloropropane	0.0172		0.0010	0.00046
95-50-1	1,2-Dichlorobenzene	0.0195		0.0010	0.00014
107-06-2	1,2-Dichloroethane	0.0211		0.0010	0.00030
78-87-5	1,2-Dichloropropane	0.0237		0.0010	0.00042
108-67-8	1,3,5-Trimethylbenzene	0.0191		0.0010	0.00012
541-73-1	1,3-Dichlorobenzene	0.0196		0.0010	0.00016
106-46-7	1,4-Dichlorobenzene	0.0192		0.0010	0.00010
78-93-3	2-Butanone (MEK)	0.0848		0.0050	0.0011
591-78-6	2-Hexanone	0.109		0.0050	0.00078
108-10-1	4-Methyl-2-pentanone (MIBK)	0.111		0.0050	0.00066
67-64-1	Acetone	0.100		0.0050	0.0038
107-02-8	Acrolein	0.350		0.10	0.028
107-13-1	Acrylonitrile	0.252		0.010	0.0016
71-43-2	Benzene	0.0225		0.0010	0.00026
75-25-2	Bromoform	0.0174		0.0010	0.00043
74-83-9	Bromomethane	0.0190		0.0010	0.00047
75-15-0	Carbon disulfide	0.0222		0.0010	0.00027
56-23-5	Carbon tetrachloride	0.0183		0.0010	0.00018
108-90-7	Chlorobenzene	0.0193		0.0010	0.00018
74-97-5	Chlorobromomethane	0.0196		0.0010	0.00028
124-48-1	Chlorodibromomethane	0.0180		0.0010	0.00019
75-00-3	Chloroethane	0.0195		0.0010	0.00052
67-66-3	Chloroform	0.0220		0.0010	0.00032
74-87-3	Chloromethane	0.0217		0.0010	0.00044
156-59-2	cis-1,2-Dichloroethene	0.0214		0.0010	0.00015
10061-01-5	cis-1,3-Dichloropropene	0.0217		0.0010	0.00027

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504711/4

Matrix: Solid | Lab File ID: K80983.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 10:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.0191		0.0010	0.00022
75-27-4	Dichlorobromomethane	0.0207		0.0010	0.00026
75-71-8	Dichlorodifluoromethane	0.0155		0.0010	0.00034
100-41-4	Ethylbenzene	0.0189		0.0010	0.00020
106-93-4	Ethylene Dibromide	0.0195		0.0010	0.00018
98-82-8	Isopropylbenzene	0.0187		0.0010	0.00013
79-20-9	Methyl acetate	0.132		0.0050	0.0043
1634-04-4	Methyl tert-butyl ether	0.0224		0.0010	0.00013
108-87-2	Methylcyclohexane	0.0191		0.0010	0.00016
75-09-2	Methylene Chloride	0.0219		0.0010	0.00016
179601-23-1	m-Xylene & p-Xylene	0.0192		0.0010	0.00017
104-51-8	n-Butylbenzene	0.0200		0.0010	0.00014
103-65-1	N-Propylbenzene	0.0205		0.0010	0.00018
95-47-6	o-Xylene	0.0199		0.0010	0.000095
135-98-8	sec-Butylbenzene	0.0181		0.0010	0.000088
100-42-5	Styrene	0.0202		0.0010	0.00012
98-06-6	tert-Butylbenzene	0.0170		0.0010	0.00012
127-18-4	Tetrachloroethene	0.0180		0.0010	0.00014
108-88-3	Toluene	0.0202		0.0010	0.00063
156-60-5	trans-1,2-Dichloroethene	0.0209		0.0010	0.00025
10061-02-6	trans-1,3-Dichloropropene	0.0213		0.0010	0.00027
79-01-6	Trichloroethene	0.0199		0.0010	0.00014
75-69-4	Trichlorofluoromethane	0.0156		0.0010	0.00041
75-01-4	Vinyl chloride	0.0190		0.0010	0.00055
1330-20-7	Xylenes, Total	0.0391		0.0020	0.00025

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		78-135
460-00-4	4-Bromofluorobenzene	105		67-126
1868-53-7	Dibromofluoromethane (Surr)	109		61-149
2037-26-5	Toluene-d8 (Surr)	107		73-121

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80983.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 20-Mar-2018 10:28:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0069025-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Mar-2018 13:15:12 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 20-Mar-2018 13:15:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.596	1.614	-0.018	85	12188	20.0	19.9	a
2 Dichlorodifluoromethane	85	1.639	1.626	0.013	99	67265	20.0	15.5	
3 Chloromethane	50	1.803	1.803	0.000	99	67940	20.0	21.7	
5 Butadiene	54	1.913	1.907	0.006	97	44356	20.0	18.8	
4 Vinyl chloride	62	1.919	1.913	0.006	86	63020	20.0	19.0	
6 Bromomethane	94	2.206	2.200	0.006	98	53944	20.0	19.0	
7 Chloroethane	64	2.273	2.273	0.000	100	32174	20.0	19.5	
8 Trichlorofluoromethane	101	2.480	2.474	0.006	60	82897	20.0	15.6	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	98	104106	20.0	19.5	
10 Pentane	72	2.498	2.498	0.000	96	15737	40.0	39.4	
11 Ethyl ether	59	2.699	2.699	0.000	92	40118	20.0	23.9	
12 Ethanol	46	2.693	2.712	-0.019	79	10499	800.0	1272.2	
13 2-Methyl-1,3-butadiene	53	2.724	2.718	0.006	98	42271	20.0	22.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.754	0.000	93	48739	20.0	19.3	
15 Acrolein	56	2.876	2.876	0.000	96	103034	300.0	350.4	
16 1,1,2-Trichloro-1,2,2-trif	101	2.895	2.894	0.001	75	61461	20.0	18.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	49826	20.0	19.0	
18 Acetone	43	3.004	3.004	0.000	84	83388	100.0	100.4	
19 Iodomethane	142	3.077	3.077	0.000	99	112484	20.0	20.1	
22 Isopropyl alcohol	45	3.096	3.083	0.013	1	35727	200.0	243.0	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	189152	20.0	22.2	
21 3-Chloro-1-propene	76	3.248	3.242	0.006	97	30870	20.0	21.9	
23 Methyl acetate	43	3.248	3.248	0.000	99	180194	100.0	132.1	
24 Cyclopentene	67	3.266	3.266	0.000	91	116904	20.0	21.7	
29 Acetonitrile	41	3.309	3.309	0.000	100	74178	200.0	262.7	
* 25 TBA-d9 (IS)	65	3.358	3.352	0.006	0	233798	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	92	65181	20.0	21.9	
27 2-Methyl-2-propanol	59	3.431	3.425	0.006	96	66171	200.0	197.6	M
28 Methyl tert-butyl ether	73	3.535	3.535	0.000	96	163086	20.0	22.4	
30 trans-1,2-Dichloroethene	96	3.571	3.565	0.006	97	54755	20.0	20.9	
31 Acrylonitrile	53	3.638	3.638	0.000	93	180355	200.0	251.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.718	3.724	-0.006	93	44712	20.0	26.5	
33 Isopropyl ether	45	3.931	3.925	0.006	98	187223	20.0	28.8	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	70	101769	20.0	24.6	
35 Vinyl acetate	86	3.980	3.980	0.000	100	16402	40.0	37.9	
36 2-Chloro-1,3-butadiene	88	4.022	4.016	0.006	92	43413	20.0	20.7	
37 Tert-butyl ethyl ether	59	4.254	4.248	0.006	87	178833	20.0	25.3	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	176563	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.486	0.000	97	28744	20.0	20.6	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	91	66273	20.0	21.4	
42 2-Butanone (MEK)	72	4.516	4.504	0.012	96	27048	100.0	84.8	
41 Ethyl acetate	70	4.510	4.510	0.000	92	9197	40.0	33.6	
44 Methyl acrylate	55	4.571	4.565	0.006	99	40155	20.0	23.2	
43 Propionitrile	54	4.644	4.644	0.000	97	71181	200.0	209.2	
45 Tetrahydrofuran	72	4.736	4.736	0.000	62	13307	40.0	34.5	
46 Chlorobromomethane	128	4.742	4.742	0.000	80	32402	20.0	19.6	
47 Methacrylonitrile	67	4.754	4.748	0.006	94	187272	200.0	219.5	
48 Chloroform	83	4.784	4.784	0.000	98	108250	20.0	22.0	
49 Cyclohexane	84	4.937	4.931	0.006	94	75992	20.0	19.1	
50 1,1,1-Trichloroethane	97	4.937	4.943	-0.006	96	92270	20.0	19.7	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	97	146818	50.0	54.6	
52 Carbon tetrachloride	117	5.065	5.065	0.000	97	76596	20.0	18.3	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	96	68829	20.0	21.5	
56 Isobutyl alcohol	74	5.193	5.193	0.000	97	5593	500.0	464.9	
54 Benzene	78	5.290	5.290	0.000	95	208382	20.0	22.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.303	5.303	0.000	0	151636	50.0	57.1	
57 Isopropyl acetate	43	5.333	5.333	0.000	96	154491	20.0	23.5	
58 Tert-amyl methyl ether	73	5.345	5.339	0.006	96	178893	20.0	23.5	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	97	74752	20.0	21.1	
60 n-Heptane	57	5.437	5.431	0.006	93	39989	20.0	22.4	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	390439	50.0	50.0	
62 n-Butanol	56	5.863	5.857	0.006	94	31465	500.0	468.4	
63 Trichloroethene	95	5.937	5.937	0.000	98	53945	20.0	19.9	
64 Ethyl acrylate	56	6.065	6.065	0.000	96	28741	20.0	21.3	
65 Methylcyclohexane	83	6.071	6.071	0.000	96	90707	20.0	19.1	
66 1,2-Dichloropropane	63	6.235	6.229	0.006	90	52907	20.0	23.7	
* 67 1,4-Dioxane-d8	96	6.284	6.278	0.006	0	21169	1000.0	1000.0	
68 Methyl methacrylate	41	6.290	6.290	0.000	92	69003	40.0	40.8	
69 1,4-Dioxane	88	6.339	6.339	0.000	27	12833	400.0	339.6	
70 n-Propyl acetate	43	6.345	6.345	0.000	99	65849	20.0	26.5	
71 Dibromomethane	93	6.369	6.363	0.006	94	35048	20.0	20.7	
72 Dichlorobromomethane	83	6.516	6.510	0.006	99	72295	20.0	20.7	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	71	22074	20.0	22.6	
74 2-Nitropropane	41	6.845	6.845	0.000	82	19636	40.0	33.7	
75 Epichlorohydrin	57	6.955	6.955	0.000	99	95659	400.0	395.9	
76 cis-1,3-Dichloropropene	75	7.016	7.016	0.000	93	80977	20.0	21.7	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	98	243082	100.0	111.5	
$ 78 Toluene-d8 (Surr)	98	7.266	7.266	0.000	97	501379	50.0	53.3	
79 Toluene	91	7.345	7.345	0.000	92	220886	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.698	7.692	0.006	99	69655	20.0	21.3	
81 Ethyl methacrylate	69	7.705	7.705	0.000	91	54177	20.0	21.7	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	96	38205	20.0	21.0	
83 Tetrachloroethene	166	7.967	7.961	0.006	98	57175	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.125	8.125	0.000	91	70541	20.0	21.9	
85 2-Hexanone	43	8.174	8.168	0.006	98	153128	100.0	108.5	
86 n-Butyl acetate	43	8.284	8.284	0.000	99	70023	20.0	26.8	
87 Chlorodibromomethane	129	8.369	8.363	0.006	98	54585	20.0	18.0	
88 Ethylene Dibromide	107	8.528	8.528	0.000	99	46176	20.0	19.5	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	85	325145	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	94	143269	20.0	19.3	
92 Ethylbenzene	106	9.198	9.198	0.000	98	70590	20.0	18.9	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.223	0.000	93	60544	20.0	19.2	
93 m-Xylene & p-Xylene	106	9.344	9.351	-0.007	0	87582	20.0	19.2	
94 n-Butyl acrylate	73	9.783	9.783	0.000	96	34976	20.0	23.5	
95 o-Xylene	106	9.814	9.814	0.000	93	93950	20.0	19.9	
96 Styrene	104	9.850	9.844	0.006	95	153097	20.0	20.2	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	90	81427	20.0	26.3	
98 Bromoform	173	10.082	10.082	0.000	97	36562	20.0	17.4	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	265243	20.0	18.7	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	95	168690	50.0	52.7	
101 Bromobenzene	156	10.564	10.558	0.006	97	67894	20.0	18.6	
102 1,1,2,2-Tetrachloroethane	83	10.600	10.594	0.006	98	66194	20.0	21.3	
103 N-Propylbenzene	91	10.625	10.625	0.000	99	306228	20.0	20.5	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	96	18046	20.0	17.9	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.661	0.000	81	15539	20.0	21.0	
107 4-Ethyltoluene	105	10.741	10.741	0.001	89	259981	20.0	19.6	
106 2-Chlorotoluene	91	10.741	10.741	0.001	92	219282	20.0	20.7	
108 1,3,5-Trimethylbenzene	105	10.808	10.808	0.000	92	225970	20.0	19.1	
109 4-Chlorotoluene	91	10.856	10.856	0.000	97	187921	20.0	20.9	
110 Butyl Methacrylate	87	10.899	10.899	0.000	91	67641	20.0	21.7	
111 tert-Butylbenzene	119	11.100	11.100	0.000	94	177454	20.0	17.0	
112 1,2,4-Trimethylbenzene	105	11.161	11.161	0.000	97	237012	20.0	19.5	
113 sec-Butylbenzene	105	11.308	11.307	0.001	100	291206	20.0	18.1	
114 4-Isopropyltoluene	119	11.436	11.436	0.000	98	254535	20.0	17.7	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	97	138263	20.0	19.6	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	93	196456	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	136293	20.0	19.2	
118 Benzyl chloride	91	11.667	11.667	0.000	98	107821	20.0	19.4	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	93	250163	20.0	19.6	
120 p-Diethylbenzene	119	11.777	11.771	0.006	93	148219	20.0	19.7	a
121 n-Butylbenzene	92	11.795	11.795	0.000	97	136025	20.0	20.0	
122 1,2-Dichlorobenzene	146	11.868	11.868	0.000	98	140925	20.0	19.5	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	97	265498	20.0	19.7	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	93	12237	20.0	17.2	
125 1,3,5-Trichlorobenzene	180	12.643	12.643	0.000	97	130048	20.0	21.0	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	93	128296	20.0	21.2	
127 Hexachlorobutadiene	225	13.216	13.216	0.000	96	57825	20.0	18.8	
128 Naphthalene	128	13.332	13.331	0.001	99	280243	20.0	19.2	
129 1,2,3-Trichlorobenzene	180	13.527	13.520	0.007	96	128118	20.0	20.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.3	
S 131 Xylenes, Total	100				0		40.0	39.1	
S 132 Total BTEX	1				0		100.0	100.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	2.00	Units: uL	
ACROLEIN W_00074	Amount Added:	3.00	Units: uL	
GASES Li_00251	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

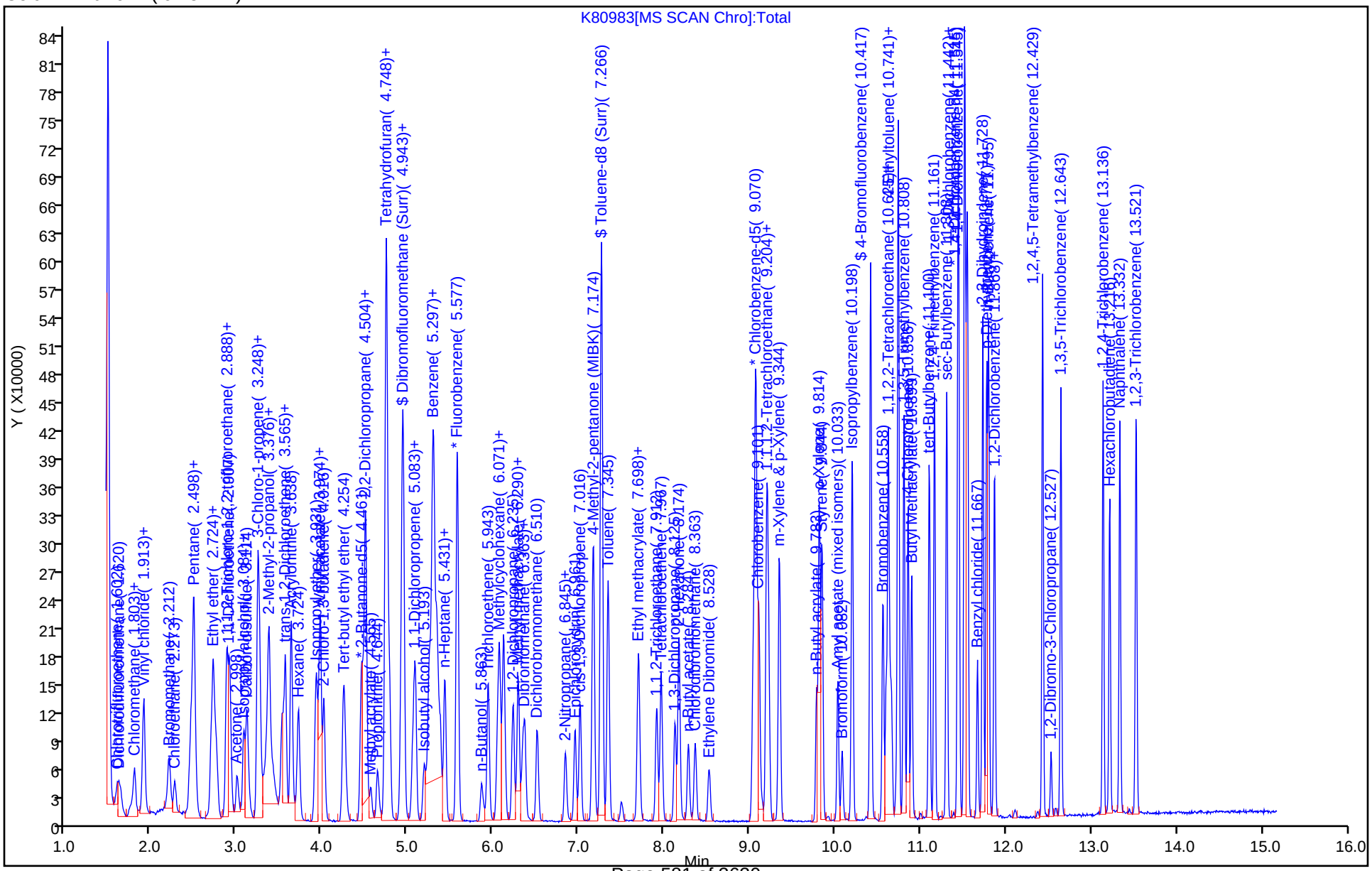
Report Date: 20-Mar-2018 13:15:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80983.D

Injection Date:	20-Mar-2018 10:28:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-504963/3

Matrix: Solid Lab File ID: P42879.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/21/2018 09:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 504963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	21.4		1.0	0.34
107-06-2	1,2-Dichloroethane	20.4		1.0	0.25
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.33
78-93-3	2-Butanone (MEK)	111		5.0	2.2
71-43-2	Benzene	19.1		1.0	0.19
56-23-5	Carbon tetrachloride	21.1		1.0	0.33
108-90-7	Chlorobenzene	20.5		1.0	0.24
67-66-3	Chloroform	22.3		1.0	0.22
127-18-4	Tetrachloroethene	19.9		1.0	0.36
79-01-6	Trichloroethene	23.4		1.0	0.22
75-01-4	Vinyl chloride	21.6		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		74-132
460-00-4	4-Bromofluorobenzene	100		77-124
1868-53-7	Dibromofluoromethane (Surr)	105		72-131
2037-26-5	Toluene-d8 (Surr)	94		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42879.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2018 09:16:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0069071-003
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Mar-2018 10:30:27 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: desais Date: 21-Mar-2018 10:24:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	87	19188	20.0	20.9	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	98	55197	20.0	18.5	
4 Chloromethane	50	0.985	0.985	0.000	99	54334	20.0	20.3	
5 Vinyl chloride	62	1.007	1.007	0.000	98	73265	20.0	21.6	
3 Butadiene	54	1.014	1.014	0.000	96	59757	20.0	19.7	
6 Bromomethane	94	1.171	1.171	0.000	99	31747	20.0	34.4	
7 Chloroethane	64	1.222	1.222	0.000	99	33684	20.0	15.7	
9 Pentane	72	1.293	1.293	0.000	96	16173	40.0	35.1	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	97	72746	20.0	22.2	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	102506	20.0	23.0	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	73441	20.0	21.3	
12 Ethyl ether	59	1.465	1.465	0.000	93	49088	20.0	20.8	
13 Ethanol	46	1.551	1.551	0.000	98	12372	800.0	801.1	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	88	65417	20.0	21.7	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	98	51673	20.0	21.4	
16 Carbon disulfide	76	1.580	1.580	0.000	99	174343	20.0	19.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	93	45253	20.0	20.3	
18 Iodomethane	142	1.637	1.637	0.000	96	47049	20.0	18.3	
19 Cyclopentene	67	1.723	1.723	0.000	95	130173	20.0	20.4	
20 Acrolein	56	1.744	1.744	0.000	93	6701	40.0	15.4	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	32496	20.0	21.5	
22 Isopropyl alcohol	45	1.859	1.859	0.000	97	34013	200.0	183.9	
23 Methylene Chloride	84	1.888	1.888	0.000	91	63282	20.0	20.9	
24 Acetone	43	1.916	1.916	0.000	87	67018	100.0	98.5	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	94	59634	20.0	22.5	
26 Methyl acetate	43	1.988	1.988	0.000	99	197276	100.0	94.7	
27 Hexane	86	2.024	2.024	0.000	93	12182	20.0	18.8	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	97	162381	20.0	21.6	
* 29 TBA-d9 (IS)	65	2.074	2.074	0.000	0	242189	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.117	2.117	0.000	99	51184	200.0	178.5	
31 Acetonitrile	41	2.189	2.189	0.000	99	72810	200.0	185.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.282	2.282	0.000	97	191331	20.0	20.4	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	89	51797	20.0	22.0	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	99	101287	20.0	21.7	
35 Acrylonitrile	53	2.382	2.382	0.000	95	210439	200.0	199.6	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	90	175434	20.0	21.1	
37 Vinyl acetate	43	2.518	2.518	0.000	100	208683	40.0	36.5	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	98	64295	20.0	22.6	
39 2,2-Dichloropropane	77	2.783	2.783	0.000	98	70349	20.0	20.9	
40 Cyclohexane	56	2.840	2.840	0.000	89	84902	20.0	18.8	
41 Chlorobromomethane	128	2.848	2.848	0.000	92	31257	20.0	23.7	
42 Chloroform	83	2.905	2.905	0.000	99	94423	20.0	22.3	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	58035	20.0	21.1	
44 Ethyl acetate	70	3.012	3.012	0.000	98	12773	40.0	42.9	
45 Methyl acrylate	55	3.012	3.012	0.000	60	48295	20.0	20.1	
46 Tetrahydrofuran	42	3.019	3.019	0.000	96	41899	40.0	41.5	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	119085	50.0	52.5	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	98	74779	20.0	21.7	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	211740	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	35158	100.0	111.1	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	85	76789	20.0	20.1	
52 Isooctane	57	3.234	3.234	0.000	99	139478	20.0	17.5	
53 n-Heptane	57	3.327	3.327	0.000	94	34119	20.0	16.2	
54 Benzene	78	3.335	3.335	0.000	94	242445	20.0	19.1	
55 Propionitrile	54	3.356	3.356	0.000	96	78710	200.0	201.7	
56 Methacrylonitrile	67	3.378	3.378	0.000	91	247412	200.0	219.8	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	127202	50.0	49.5	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	169731	20.0	21.8	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	69331	20.0	20.4	
60 Isobutyl alcohol	43	3.578	3.578	0.000	96	51701	500.0	434.9	
61 t-Amyl alcohol	59	3.643	3.643	0.000	96	38385	200.0	190.3	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	278682	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	99097	20.0	19.7	
64 Methylcyclohexane	83	3.815	3.815	0.000	96	86687	20.0	19.8	
65 Trichloroethene	130	3.829	3.829	0.000	96	63619	20.0	23.4	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	94	134140	20.0	21.3	
67 Dibromomethane	93	4.209	4.209	0.000	98	36138	20.0	23.0	
68 n-Butanol	56	4.216	4.216	0.000	86	32804	500.0	499.7	
69 1,2-Dichloropropane	63	4.294	4.294	0.000	93	61964	20.0	22.0	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	68379	20.0	20.9	
71 Dichlorobromomethane	83	4.380	4.380	0.000	98	68208	20.0	22.3	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	29005	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	90	33169	40.0	46.2	
74 1,4-Dioxane	88	4.602	4.602	0.000	91	14113	400.0	383.5	
75 n-Propyl acetate	43	4.731	4.731	0.000	98	72854	20.0	19.6	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	36572	20.0	23.8	
77 cis-1,3-Dichloropropene	75	5.025	5.025	0.000	92	93551	20.0	19.1	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	100	541193	50.0	46.8	
79 Toluene	91	5.283	5.283	0.000	93	272543	20.0	19.7	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	107394	400.0	485.4	
81 2-Nitropropane	41	5.541	5.541	0.000	98	20715	40.0	38.1	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	64552	20.0	19.9	
83 4-Methyl-2-pentanone (MIBK	43	5.749	5.749	0.000	96	261369	100.0	111.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	95	81101	20.0	19.4	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	46318	20.0	20.4	
86 Ethyl methacrylate	69	6.042	6.042	0.000	89	72948	20.0	22.5	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	53750	20.0	19.7	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	93	96615	20.0	20.0	
89 Ethylene Dibromide	107	6.408	6.408	0.000	97	54558	20.0	20.7	
90 n-Butyl acetate	43	6.751	6.751	0.000	98	74647	20.0	13.9	
91 2-Hexanone	43	6.816	6.816	0.000	95	177823	100.0	108.7	
* 92 Chlorobenzene-d5	117	7.102	7.102	0.000	85	402665	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	177750	20.0	20.5	
94 Ethylbenzene	106	7.210	7.210	0.000	98	97491	20.0	20.8	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	96	53275	20.0	19.9	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	117900	20.0	20.5	
97 o-Xylene	106	8.019	8.019	0.000	95	114534	20.0	20.9	
98 Bromoform	173	8.084	8.084	0.000	95	30581	20.0	18.4	
99 Styrene	104	8.105	8.105	0.000	97	183757	20.0	21.1	
100 n-Butyl acrylate	73	8.428	8.428	0.000	98	38369	20.0	15.0	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	299146	20.0	20.8	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	82791	20.0	13.0	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	91	168638	50.0	50.0	
104 Bromobenzene	156	8.993	8.993	0.000	97	75618	20.0	19.3	
105 N-Propylbenzene	91	9.137	9.137	0.000	99	351885	20.0	19.5	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	70159	20.0	18.3	
107 2-Chlorotoluene	91	9.316	9.316	0.000	97	235106	20.0	18.8	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	300819	20.0	19.6	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	20537	20.0	18.7	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	245239	20.0	19.6	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	88	17357	20.0	17.8	
112 4-Chlorotoluene	91	9.581	9.581	0.000	97	214617	20.0	18.9	
113 tert-Butylbenzene	119	9.953	9.953	0.000	97	209406	20.0	19.4	
114 Butyl Methacrylate	87	10.082	10.082	0.000	86	66356	20.0	16.3	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	97	253164	20.0	19.4	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	316835	20.0	19.6	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	97	144795	20.0	20.0	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	269288	20.0	19.7	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	252293	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	150677	20.0	19.3	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	260488	20.0	19.4	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	94	269265	20.0	20.0	
122 Benzyl chloride	126	11.128	11.128	0.000	98	16719	20.0	11.8	
123 p-Diethylbenzene	119	11.135	11.135	0.000	94	142534	20.0	19.7	
124 n-Butylbenzene	91	11.214	11.214	0.000	98	231973	20.0	18.7	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	97	141093	20.0	20.3	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	244398	20.0	20.0	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	93	12444	20.0	18.7	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	103442	20.0	20.5	
129 1,2,4-Trichlorobenzene	180	13.076	13.076	0.000	94	90068	20.0	19.2	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	94	32969	20.0	19.3	
131 Naphthalene	128	13.370	13.370	0.000	100	210143	20.0	19.1	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	95	81807	20.0	20.1	
S 133 1,2-Dichloroethene, Total	100				0		40.0	45.1	
S 134 1,3-Dichloropropene, Total	100				0		40.0	38.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 135 Xylenes, Total	100				0		40.0	41.4	
S 137 Total BTEX	1				0		100.0	101.0	

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 10:30:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42879.D

Injection Date: 21-Mar-2018 09:16:30 Instrument ID: CVOAMS13 Operator ID:

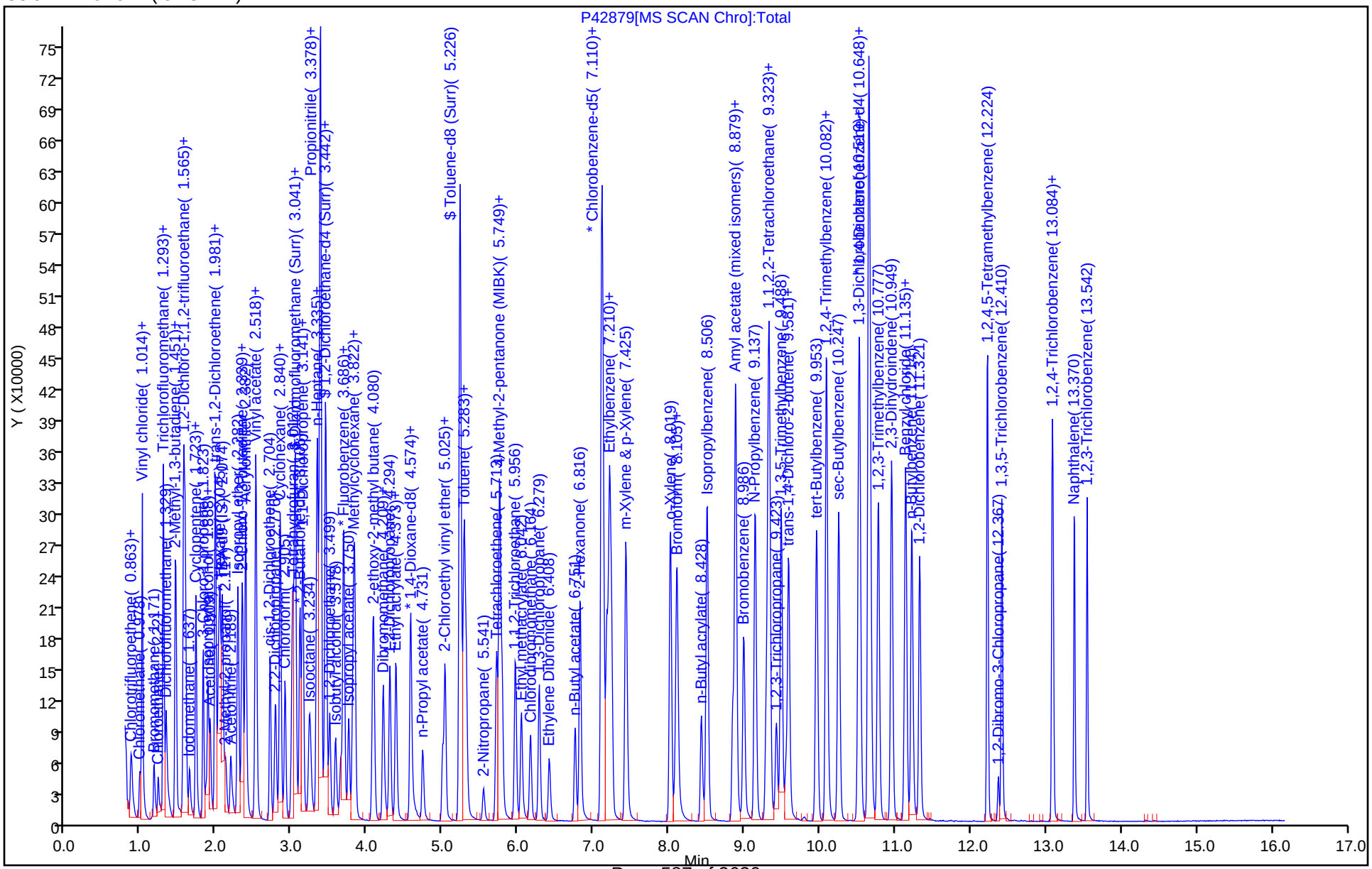
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505144/3

Matrix: Water | Lab File ID: P42908.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 07:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.1		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	17.9		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.4		1.0	0.34
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.080
75-34-3	1,1-Dichloroethane	21.3		1.0	0.24
75-35-4	1,1-Dichloroethene	21.5		1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	19.6		1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	19.8		1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	18.8		1.0	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.0	0.23
95-50-1	1,2-Dichlorobenzene	20.1		1.0	0.22
107-06-2	1,2-Dichloroethane	21.3		1.0	0.25
78-87-5	1,2-Dichloropropane	21.6		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	19.0		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.9		1.0	0.33
106-46-7	1,4-Dichlorobenzene	19.1		1.0	0.33
78-93-3	2-Butanone (MEK)	115		5.0	2.2
591-78-6	2-Hexanone	110		5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	113		5.0	0.63
67-64-1	Acetone	99.6		5.0	1.1
107-02-8	Acrolein	82.4		4.0	0.88
107-13-1	Acrylonitrile	194		2.0	1.0
71-43-2	Benzene	18.5		1.0	0.090
75-25-2	Bromoform	19.6		1.0	0.18
74-83-9	Bromomethane	29.8		1.0	0.18
75-15-0	Carbon disulfide	19.9		1.0	0.22
56-23-5	Carbon tetrachloride	21.9		1.0	0.33
108-90-7	Chlorobenzene	20.5		1.0	0.24
74-97-5	Chlorobromomethane	24.1		1.0	0.30
124-48-1	Chlorodibromomethane	19.8		1.0	0.22
75-00-3	Chloroethane	15.2		1.0	0.37
67-66-3	Chloroform	22.7		1.0	0.22
74-87-3	Chloromethane	20.7		1.0	0.22
156-59-2	cis-1,2-Dichloroethene	22.5		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	19.2		1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505144/3

Matrix: Water | Lab File ID: P42908.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 07:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	17.6		1.0	0.26
75-27-4	Dichlorobromomethane	22.9		1.0	0.15
75-71-8	Dichlorodifluoromethane	16.0		1.0	0.14
100-41-4	Ethylbenzene	20.6		1.0	0.30
106-93-4	Ethylene Dibromide	20.1		1.0	0.19
98-82-8	Isopropylbenzene	20.3		1.0	0.32
79-20-9	Methyl acetate	92.2		5.0	0.58
1634-04-4	Methyl tert-butyl ether	21.3		1.0	0.13
108-87-2	Methylcyclohexane	18.6		1.0	0.22
75-09-2	Methylene Chloride	20.7		1.0	0.21
179601-23-1	m-Xylene & p-Xylene	20.2		1.0	0.28
104-51-8	n-Butylbenzene	19.0		1.0	0.27
103-65-1	N-Propylbenzene	18.7		1.0	0.29
95-47-6	o-Xylene	20.7		1.0	0.32
135-98-8	sec-Butylbenzene	19.0		1.0	0.31
100-42-5	Styrene	21.2		1.0	0.17
98-06-6	tert-Butylbenzene	18.9		1.0	0.28
127-18-4	Tetrachloroethene	19.6		1.0	0.12
108-88-3	Toluene	19.3		1.0	0.25
156-60-5	trans-1,2-Dichloroethene	22.4		1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	19.7		1.0	0.19
79-01-6	Trichloroethene	23.5		1.0	0.22
75-69-4	Trichlorofluoromethane	22.3		1.0	0.15
75-01-4	Vinyl chloride	21.9		1.0	0.060
1330-20-7	Xylenes, Total	40.9		2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
1868-53-7	Dibromofluoromethane (Surr)	109		72-131
2037-26-5	Toluene-d8 (Surr)	93		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42908.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 07:36:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0069112-003
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 18:03:22 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: desais Date: 22-Mar-2018 10:08:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	87	11399	20.0	13.4	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	44300	20.0	16.0	
4 Chloromethane	50	0.985	0.985	0.000	98	51294	20.0	20.7	
5 Vinyl chloride	62	1.007	1.007	0.000	97	68960	20.0	21.9	
3 Butadiene	54	1.014	1.014	0.000	95	55473	20.0	19.7	
6 Bromomethane	94	1.164	1.164	0.000	98	24598	20.0	29.8	
7 Chloroethane	64	1.222	1.222	0.000	98	30316	20.0	15.2	
9 Pentane	72	1.286	1.286	0.000	96	13508	40.0	31.9	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	97	67956	20.0	22.3	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	96538	20.0	23.3	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	66539	20.0	20.8	
12 Ethyl ether	59	1.465	1.465	0.000	94	44902	20.0	20.6	
13 Ethanol	46	1.551	1.551	0.000	37	11705	800.0	824.9	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	87	60088	20.0	21.5	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	98	47936	20.0	21.5	
16 Carbon disulfide	76	1.580	1.580	0.000	99	162962	20.0	19.9	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	98	40107	20.0	19.4	
18 Iodomethane	142	1.637	1.637	0.000	96	39528	20.0	16.5	
19 Cyclopentene	67	1.723	1.723	0.000	95	117261	20.0	19.8	
20 Acrolein	56	2.024	2.024	0.000	67	32923	40.0	82.4	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	31004	20.0	22.1	
22 Isopropyl alcohol	45	1.859	1.859	0.000	98	31015	200.0	182.6	
23 Methylene Chloride	84	1.881	1.881	0.000	90	58150	20.0	20.7	
24 Acetone	43	1.916	1.916	0.000	87	60599	100.0	99.6	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	93	54957	20.0	22.4	
26 Methyl acetate	43	1.988	1.988	0.000	99	177991	100.0	92.2	
27 Hexane	86	2.024	2.024	0.000	90	10855	20.0	18.1	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	96	148054	20.0	21.3	
* 29 TBA-d9 (IS)	65	2.081	2.081	0.000	0	222519	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.124	2.124	0.000	99	47794	200.0	181.4	
31 Acetonitrile	41	2.189	2.189	0.000	98	64793	200.0	179.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.282	2.282	0.000	96	167570	20.0	19.2	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	89	46986	20.0	21.6	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	99	91961	20.0	21.3	
35 Acrylonitrile	53	2.382	2.382	0.000	94	189476	200.0	193.8	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	89	160163	20.0	20.8	
37 Vinyl acetate	43	2.518	2.518	0.000	100	211867	40.0	40.0	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	99	59218	20.0	22.5	
39 2,2-Dichloropropane	77	2.776	2.776	0.000	97	71680	20.0	22.9	
40 Cyclohexane	56	2.840	2.840	0.000	89	73372	20.0	17.6	
41 Chlorobromomethane	128	2.848	2.848	0.000	91	29590	20.0	24.1	
42 Chloroform	83	2.905	2.905	0.000	99	89234	20.0	22.7	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	55930	20.0	21.9	
44 Ethyl acetate	70	3.012	3.012	0.000	99	11841	40.0	44.4	
45 Methyl acrylate	55	3.012	3.012	0.000	94	44387	20.0	19.9	
46 Tetrahydrofuran	42	3.019	3.019	0.000	92	37147	40.0	41.2	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	98	115165	50.0	54.7	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	97	70900	20.0	22.1	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	189336	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	32552	100.0	115.0	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	92	71749	20.0	20.2	
52 Isooctane	57	3.234	3.234	0.000	99	116427	20.0	15.8	
53 n-Heptane	57	3.320	3.320	0.000	92	32488	20.0	16.6	
54 Benzene	78	3.335	3.335	0.000	94	223770	20.0	18.5	
55 Propionitrile	54	3.356	3.356	0.000	94	71209	200.0	198.6	
56 Methacrylonitrile	67	3.378	3.378	0.000	91	226792	200.0	217.3	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	122042	50.0	51.2	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	155027	20.0	21.5	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	67186	20.0	21.3	
60 Isobutyl alcohol	43	3.578	3.578	0.000	95	47757	500.0	437.2	
61 t-Amyl alcohol	59	3.643	3.643	0.000	97	34916	200.0	188.4	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	258427	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	88492	20.0	19.0	
64 Methylcyclohexane	83	3.815	3.815	0.000	95	75566	20.0	18.6	
65 Trichloroethene	130	3.829	3.829	0.000	96	59220	20.0	23.5	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	96	121919	20.0	20.8	
67 Dibromomethane	93	4.201	4.201	0.000	98	33661	20.0	23.2	
68 n-Butanol	56	4.216	4.216	0.000	90	30975	500.0	513.3	
69 1,2-Dichloropropane	63	4.294	4.294	0.000	92	56451	20.0	21.6	
70 Ethyl acrylate	55	4.373	4.373	0.000	99	60885	20.0	20.1	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	65038	20.0	22.9	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	25695	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	89	30604	40.0	46.0	
74 1,4-Dioxane	88	4.595	4.595	0.000	89	12928	400.0	396.5	
75 n-Propyl acetate	43	4.731	4.731	0.000	98	65931	20.0	19.1	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	25479	20.0	17.9	
77 cis-1,3-Dichloropropene	75	5.025	5.025	0.000	91	89693	20.0	19.2	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	511006	50.0	46.3	
79 Toluene	91	5.283	5.283	0.000	93	254589	20.0	19.3	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	96959	400.0	490.1	
81 2-Nitropropane	41	5.541	5.541	0.000	97	20138	40.0	39.9	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	60892	20.0	19.6	
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	236236	100.0	113.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	94	78531	20.0	19.7	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	43888	20.0	20.2	
86 Ethyl methacrylate	69	6.042	6.042	0.000	89	67407	20.0	22.4	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	51632	20.0	19.8	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	92	89648	20.0	19.5	
89 Ethylene Dibromide	107	6.408	6.408	0.000	98	50644	20.0	20.1	
90 n-Butyl acetate	43	6.751	6.751	0.000	98	67926	20.0	13.2	
91 2-Hexanone	43	6.816	6.816	0.000	96	160943	100.0	110.0	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	85	384535	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	169566	20.0	20.5	
94 Ethylbenzene	106	7.210	7.210	0.000	98	91935	20.0	20.6	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	97	51398	20.0	20.1	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	110815	20.0	20.2	
97 o-Xylene	106	8.019	8.019	0.000	95	108329	20.0	20.7	
98 Bromoform	173	8.084	8.084	0.000	95	31054	20.0	19.6	
99 Styrene	104	8.105	8.105	0.000	97	176513	20.0	21.2	
100 n-Butyl acrylate	73	8.428	8.428	0.000	98	37220	20.0	15.3	
101 Isopropylbenzene	105	8.499	8.499	0.000	95	279268	20.0	20.3	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	77085	20.0	12.4	
$ 103 4-Bromofluorobenzene	174	8.879	8.879	0.000	92	164787	50.0	51.1	
104 Bromobenzene	156	8.993	8.993	0.000	96	73193	20.0	19.2	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	329259	20.0	18.7	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	98	67257	20.0	17.9	
107 2-Chlorotoluene	91	9.316	9.316	0.000	97	223693	20.0	18.4	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	284532	20.0	19.0	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	19770	20.0	18.5	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	231984	20.0	19.0	
111 trans-1,4-Dichloro-2-buten	53	9.545	9.545	0.000	91	15440	20.0	16.3	
112 4-Chlorotoluene	91	9.581	9.581	0.000	97	203332	20.0	18.4	
113 tert-Butylbenzene	119	9.953	9.953	0.000	96	198044	20.0	18.9	
114 Butyl Methacrylate	87	10.089	10.089	0.000	49	65325	20.0	16.5	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	239904	20.0	18.8	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	299891	20.0	19.0	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	98	140512	20.0	19.9	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	253046	20.0	18.9	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	246081	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	145109	20.0	19.1	
138 1,2,3-Trimethylbenzene	105	10.770	10.770	0.000	98	248886	20.0	19.0	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	257154	20.0	19.6	
122 Benzyl chloride	126	11.121	11.121	0.000	98	18136	20.0	13.2	
123 p-Diethylbenzene	119	11.135	11.135	0.000	94	138937	20.0	19.7	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	228960	20.0	19.0	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	98	136096	20.0	20.1	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	236406	20.0	19.8	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	93	12886	20.0	19.9	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	97	99992	20.0	20.3	
129 1,2,4-Trichlorobenzene	180	13.076	13.076	0.000	93	90295	20.0	19.8	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	95	32690	20.0	19.6	
131 Naphthalene	128	13.377	13.377	0.000	100	199730	20.0	18.6	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	95	77865	20.0	19.6	
S 133 1,2-Dichloroethene, Total	100				0		40.0	44.8	
S 134 1,3-Dichloropropene, Total	100				0		40.0	38.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 135 Xylenes, Total	100				0		40.0	40.9	
S 137 Total BTEX	1				0		100.0	99.2	

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 18:03:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42908.D

Injection Date: 22-Mar-2018 07:36:30 Instrument ID: CVOAMS13 Operator ID:

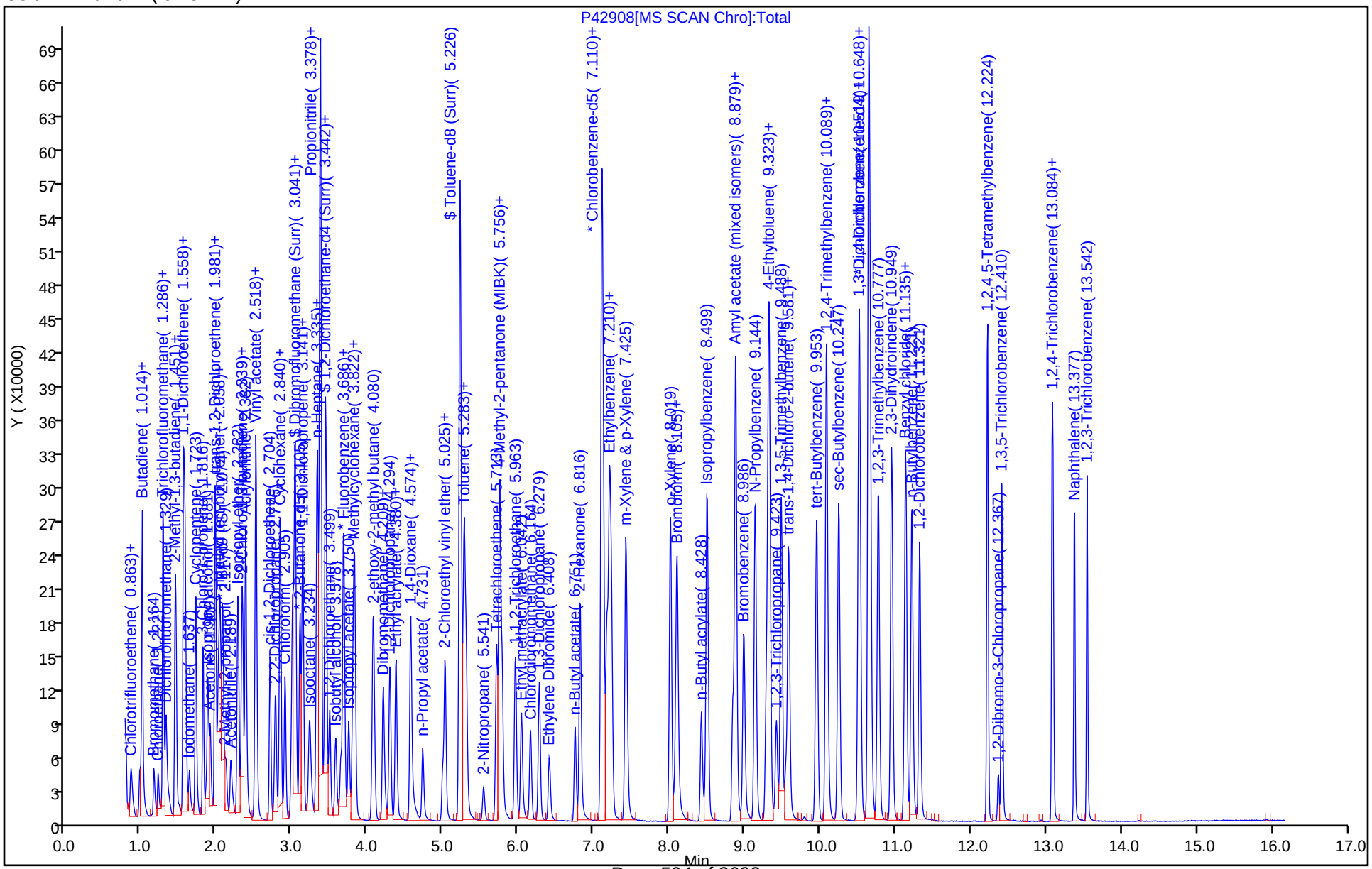
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505151/3

Matrix: Solid | Lab File ID: T04907.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 07:34

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 505151 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	20.4		1.0	0.34
107-06-2	1,2-Dichloroethane	19.1		1.0	0.25
106-46-7	1,4-Dichlorobenzene	23.1		1.0	0.33
78-93-3	2-Butanone (MEK)	99.6		5.0	2.2
71-43-2	Benzene	21.9		1.0	0.19
56-23-5	Carbon tetrachloride	19.1		1.0	0.33
108-90-7	Chlorobenzene	22.1		1.0	0.24
67-66-3	Chloroform	19.7		1.0	0.22
127-18-4	Tetrachloroethene	22.6		1.0	0.36
79-01-6	Trichloroethene	20.0		1.0	0.22
75-01-4	Vinyl chloride	20.5		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
1868-53-7	Dibromofluoromethane (Surr)	93		72-131
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04907.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 07:34:34 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 15:32:59 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK005

First Level Reviewer: desais Date: 22-Mar-2018 08:12:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.913	0.913	0.000	83	13083	20.0	21.1	
2 Dichlorodifluoromethane	85	0.934	0.934	0.000	88	58786	20.0	15.7	
3 Chloromethane	50	1.039	1.039	0.000	89	47352	20.0	20.0	
4 Vinyl chloride	62	1.096	1.096	0.000	83	42512	20.0	20.5	
5 Butadiene	54	1.117	1.117	0.000	96	41024	20.0	18.9	
6 Bromomethane	94	1.274	1.274	0.000	98	5384	20.0	11.9	
7 Chloroethane	64	1.332	1.337	-0.005	93	13360	20.0	12.9	
8 Dichlorofluoromethane	67	1.453	1.458	-0.005	90	66822	20.0	20.3	
9 Trichlorofluoromethane	101	1.484	1.489	-0.005	88	81122	20.0	16.8	
10 Pentane	72	1.531	1.537	-0.006	96	16713	40.0	6.93	
11 Ethanol	46	1.642	1.631	0.011	99	19500	800.0	585.6	
12 Ethyl ether	59	1.673	1.673	0.000	61	61721	20.0	21.6	
13 1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	79	52336	20.0	22.1	
14 2-Methyl-1,3-butadiene	53	1.678	1.678	0.000	86	57306	20.0	20.8	
15 Acrolein	56	1.746	1.746	0.000	96	9360	40.0	17.8	
16 1,1-Dichloroethene	96	1.804	1.804	0.000	88	56530	20.0	20.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.804	1.809	-0.005	65	54768	20.0	21.8	
18 Acetone	43	1.851	1.846	0.005	87	120124	100.0	86.6	
19 Iodomethane	142	1.898	1.898	0.000	95	21702	20.0	9.33	
21 Carbon disulfide	76	1.940	1.940	0.000	99	119685	20.0	17.1	
20 Isopropyl alcohol	45	1.956	1.951	0.005	63	53625	200.0	218.0	
24 Acetonitrile	40	2.029	2.024	0.005	85	67753	200.0	199.7	
22 3-Chloro-1-propene	76	2.035	2.035	0.000	90	40751	20.0	21.9	
23 Methyl acetate	43	2.056	2.056	0.000	99	315696	100.0	110.1	
25 Cyclopentene	67	2.087	2.092	-0.005	94	142670	20.0	20.8	
26 Methylene Chloride	84	2.113	2.119	-0.006	92	66800	20.0	19.9	
* 27 TBA-d9 (IS)	66	2.166	2.161	0.005	98	62928	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.218	2.213	0.005	98	87949	200.0	224.9	
29 Acrylonitrile	53	2.286	2.286	0.000	95	322011	200.0	229.9	
30 trans-1,2-Dichloroethene	96	2.302	2.302	0.000	75	61394	20.0	20.8	
31 Methyl tert-butyl ether	73	2.313	2.313	0.000	96	165561	20.0	21.3	
32 Hexane	57	2.501	2.507	-0.006	93	108404	20.0	23.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	121265	20.0	19.6	
34 Vinyl acetate	86	2.653	2.653	0.000	100	28441	40.0	48.6	
35 Isopropyl ether	45	2.674	2.674	0.000	89	248149	20.0	21.4	
36 2-Chloro-1,3-butadiene	88	2.674	2.674	0.000	64	59486	20.0	21.5	
37 Tert-butyl ethyl ether	59	2.958	2.958	0.000	88	219836	20.0	20.4	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	509213	250.0	250.0	
39 2,2-Dichloropropane	97	3.057	3.057	0.000	71	20579	20.0	21.7	
40 cis-1,2-Dichloroethene	96	3.057	3.057	0.000	86	72871	20.0	20.9	
41 2-Butanone (MEK)	43	3.083	3.078	0.005	99	197494	100.0	99.6	
42 Propionitrile	54	3.131	3.125	0.006	99	131376	200.0	223.5	
43 Ethyl acetate	70	3.141	3.141	0.000	99	15478	40.0	43.5	
44 Methyl acrylate	55	3.167	3.162	0.005	95	85663	20.0	21.3	
45 Methacrylonitrile	67	3.256	3.256	0.000	95	300441	200.0	226.0	
46 Chlorobromomethane	128	3.256	3.256	0.000	41	31078	20.0	22.2	
47 Tetrahydrofuran	72	3.309	3.309	0.000	87	19481	40.0	42.6	
48 Chloroform	83	3.330	3.330	0.000	92	100032	20.0	19.7	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	126841	50.0	46.6	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	84	80499	20.0	19.3	
51 Cyclohexane	84	3.534	3.534	0.000	95	90553	20.0	21.9	
52 Carbon tetrachloride	117	3.634	3.634	0.000	71	58778	20.0	19.1	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	90	80584	20.0	21.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.770	3.770	0.000	85	139388	50.0	44.9	
54 Isobutyl alcohol	43	3.875	3.791	0.084	32	12258	500.0	78.2	
56 Benzene	78	3.828	3.823	0.005	98	245574	20.0	21.9	
57 1,2-Dichloroethane	62	3.844	3.844	0.000	66	82486	20.0	19.1	
58 Isooctane	57	3.922	3.922	0.000	99	247944	20.0	22.5	
59 Isopropyl acetate	61	3.938	3.933	0.005	94	30488	20.0	22.8	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	83	169693	20.0	21.1	
* 61 Fluorobenzene	96	4.101	4.101	0.000	98	541836	50.0	50.0	
62 n-Heptane	43	4.111	4.111	0.000	48	105868	20.0	22.4	
63 n-Butanol	56	4.468	4.462	0.006	76	56630	500.0	587.5	
64 Trichloroethene	95	4.473	4.473	0.000	94	63158	20.0	20.0	
65 Ethyl acrylate	55	4.630	4.625	0.005	98	102341	20.0	19.9	
66 Methylcyclohexane	83	4.672	4.672	0.000	91	107845	20.0	22.6	
67 1,2-Dichloropropane	63	4.703	4.703	0.000	88	73316	20.0	20.9	
* 68 1,4-Dioxane-d8	96	4.829	4.824	0.005	32	44316	1000.0	1000.0	
69 Dibromomethane	93	4.829	4.829	0.000	96	37012	20.0	20.1	
71 Methyl methacrylate	100	4.882	4.882	0.000	96	34790	40.0	43.1	
70 1,4-Dioxane	88	4.887	4.882	0.005	31	17976	400.0	460.9	
72 n-Propyl acetate	43	4.966	4.966	0.000	99	118359	20.0	20.9	
73 Dichlorobromomethane	83	5.023	5.018	0.005	95	59848	20.0	18.4	
74 2-Nitropropane	41	5.291	5.291	0.000	96	27292	40.0	37.1	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	95	51845	20.0	20.8	
76 Epichlorohydrin	57	5.453	5.453	0.000	99	193343	400.0	478.5	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	91	94330	20.0	22.8	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	385101	100.0	106.7	
$ 79 Toluene-d8 (Surr)	98	5.873	5.873	0.000	99	493011	50.0	50.0	
80 Toluene	91	5.957	5.957	0.000	93	257905	20.0	22.4	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	97	78247	20.0	21.8	
82 Ethyl methacrylate	69	6.444	6.444	0.000	94	73279	20.0	23.3	
83 1,1,2-Trichloroethane	83	6.491	6.491	0.000	92	46526	20.0	23.1	
84 Tetrachloroethene	166	6.659	6.659	0.000	93	71046	20.0	22.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,3-Dichloropropane	76	6.712	6.706	0.006	97	96448	20.0	22.8	
86 2-Hexanone	43	6.885	6.885	0.000	97	265750	100.0	103.4	
87 Chlorodibromomethane	129	7.005	7.005	0.000	97	43556	20.0	20.1	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	118645	20.0	23.3	
89 Ethylene Dibromide	107	7.131	7.131	0.000	81	57402	20.0	22.3	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	426778	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	95	169096	20.0	22.1	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.001	0.000	92	50505	20.0	21.3	
93 Ethylbenzene	106	8.064	8.059	0.005	98	92410	20.0	22.6	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	96	113277	20.0	22.9	
95 o-Xylene	106	8.840	8.840	0.000	94	107896	20.0	22.8	
96 Styrene	104	8.867	8.867	0.000	91	174497	20.0	23.3	
97 n-Butyl acrylate	73	8.919	8.919	0.000	95	43405	20.0	22.0	
98 Bromoform	173	9.102	9.097	0.005	97	26833	20.0	19.9	
99 Amyl acetate (mixed isomer	43	9.312	9.312	0.000	88	132463	20.0	22.2	
100 Isopropylbenzene	105	9.448	9.448	0.000	95	278104	20.0	22.8	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	158337	50.0	49.4	
102 Bromobenzene	156	9.847	9.842	0.005	94	71165	20.0	22.0	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	91	70074	20.0	23.6	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	90	21871	20.0	22.6	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.057	0.005	80	21820	20.0	22.3	
106 N-Propylbenzene	91	10.114	10.114	0.000	99	336206	20.0	23.2	
107 2-Chlorotoluene	91	10.193	10.193	0.000	96	190931	20.0	22.5	
108 4-Ethyltoluene	105	10.314	10.314	0.000	98	277561	20.0	23.0	
109 4-Chlorotoluene	91	10.382	10.382	0.000	97	186981	20.0	22.7	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	93	219024	20.0	22.7	
111 Butyl Methacrylate	87	10.712	10.712	0.000	94	70076	20.0	21.3	
112 tert-Butylbenzene	119	10.953	10.948	0.005	95	196000	20.0	22.7	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	225623	20.0	22.6	
113 sec-Butylbenzene	105	11.310	11.310	0.000	99	298384	20.0	23.4	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	96	132373	20.0	22.6	
* 115 1,4-Dichlorobenzene-d4	152	11.504	11.504	0.000	95	228354	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	93	131173	20.0	23.1	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	243598	20.0	23.7	
135 1,2,3-Trimethylbenzene	105	11.651	11.651	0.000	99	224796	20.0	22.6	
119 Benzyl chloride	91	11.755	11.750	0.005	98	111995	20.0	23.1	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	91	223888	20.0	23.5	
121 1,2-Dichlorobenzene	146	12.018	12.018	0.000	96	121941	20.0	22.7	
122 p-Diethylbenzene	119	12.065	12.065	0.000	92	132645	20.0	23.5	
123 n-Butylbenzene	92	12.091	12.091	0.000	97	130155	20.0	24.1	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.925	0.000	68	9592	20.0	21.2	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	97	211666	20.0	23.8	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	97	92770	20.0	23.2	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	80640	20.0	23.4	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	77	34971	20.0	23.3	
129 Naphthalene	128	13.942	13.942	0.000	99	211155	20.0	25.1	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	95	73153	20.0	23.8	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.7	
S 132 Xylenes, Total	100				0		40.0	45.7	
S 136 1,3-Dichloropropene, Total	1				0		40.0	44.6	
S 133 Total BTEX	1				0		100.0	112.7	

Reagents:

GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 15:33:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04907.D

Injection Date: 22-Mar-2018 07:34:34 Instrument ID: CVOAMS15

Lims ID: LCS

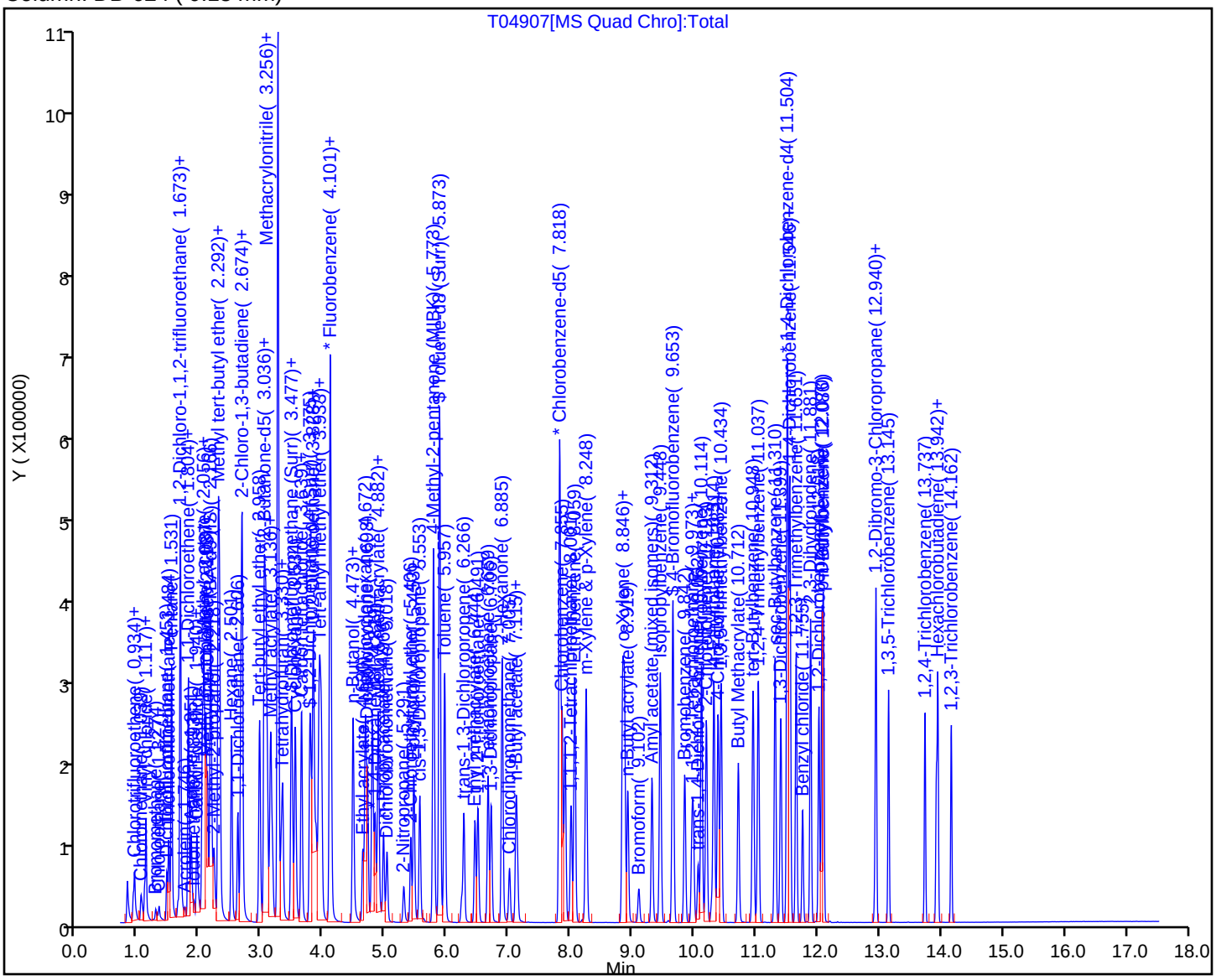
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504711/5

Matrix: Solid | Lab File ID: K80984.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.0196		0.0010	0.00023
79-34-5	1,1,2,2-Tetrachloroethane	0.0217		0.0010	0.00021
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0184		0.0010	0.00030
79-00-5	1,1,2-Trichloroethane	0.0207		0.0010	0.00018
75-34-3	1,1-Dichloroethane	0.0234		0.0010	0.00021
75-35-4	1,1-Dichloroethene	0.0190		0.0010	0.00023
87-61-6	1,2,3-Trichlorobenzene	0.0200		0.0010	0.00018
120-82-1	1,2,4-Trichlorobenzene	0.0204		0.0010	0.000092
95-63-6	1,2,4-Trimethylbenzene	0.0202		0.0010	0.000094
96-12-8	1,2-Dibromo-3-Chloropropane	0.0199		0.0010	0.00046
95-50-1	1,2-Dichlorobenzene	0.0194		0.0010	0.00014
107-06-2	1,2-Dichloroethane	0.0207		0.0010	0.00030
78-87-5	1,2-Dichloropropane	0.0233		0.0010	0.00042
108-67-8	1,3,5-Trimethylbenzene	0.0194		0.0010	0.00012
541-73-1	1,3-Dichlorobenzene	0.0193		0.0010	0.00016
106-46-7	1,4-Dichlorobenzene	0.0194		0.0010	0.00010
78-93-3	2-Butanone (MEK)	0.0835		0.0050	0.0011
591-78-6	2-Hexanone	0.107		0.0050	0.00078
108-10-1	4-Methyl-2-pentanone (MIBK)	0.109		0.0050	0.00066
67-64-1	Acetone	0.0945		0.0050	0.0038
107-02-8	Acrolein	0.322		0.10	0.028
107-13-1	Acrylonitrile	0.254		0.010	0.0016
71-43-2	Benzene	0.0225		0.0010	0.00026
75-25-2	Bromoform	0.0175		0.0010	0.00043
74-83-9	Bromomethane	0.0188		0.0010	0.00047
75-15-0	Carbon disulfide	0.0214		0.0010	0.00027
56-23-5	Carbon tetrachloride	0.0184		0.0010	0.00018
108-90-7	Chlorobenzene	0.0187		0.0010	0.00018
74-97-5	Chlorobromomethane	0.0191		0.0010	0.00028
124-48-1	Chlorodibromomethane	0.0178		0.0010	0.00019
75-00-3	Chloroethane	0.0194		0.0010	0.00052
67-66-3	Chloroform	0.0214		0.0010	0.00032
74-87-3	Chloromethane	0.0221		0.0010	0.00044
156-59-2	cis-1,2-Dichloroethene	0.0203		0.0010	0.00015
10061-01-5	cis-1,3-Dichloropropene	0.0216		0.0010	0.00027

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504711/5

Matrix: Solid | Lab File ID: K80984.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/20/2018 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504711 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.0195		0.0010	0.00022
75-27-4	Dichlorobromomethane	0.0201		0.0010	0.00026
75-71-8	Dichlorodifluoromethane	0.0158		0.0010	0.00034
100-41-4	Ethylbenzene	0.0195		0.0010	0.00020
106-93-4	Ethylene Dibromide	0.0199		0.0010	0.00018
98-82-8	Isopropylbenzene	0.0186		0.0010	0.00013
79-20-9	Methyl acetate	0.139		0.0050	0.0043
1634-04-4	Methyl tert-butyl ether	0.0217		0.0010	0.00013
108-87-2	Methylcyclohexane	0.0191		0.0010	0.00016
75-09-2	Methylene Chloride	0.0209		0.0010	0.00016
179601-23-1	m-Xylene & p-Xylene	0.0191		0.0010	0.00017
104-51-8	n-Butylbenzene	0.0201		0.0010	0.00014
103-65-1	N-Propylbenzene	0.0213		0.0010	0.00018
95-47-6	o-Xylene	0.0199		0.0010	0.000095
135-98-8	sec-Butylbenzene	0.0189		0.0010	0.000088
100-42-5	Styrene	0.0199		0.0010	0.00012
98-06-6	tert-Butylbenzene	0.0174		0.0010	0.00012
127-18-4	Tetrachloroethene	0.0182		0.0010	0.00014
108-88-3	Toluene	0.0202		0.0010	0.00063
156-60-5	trans-1,2-Dichloroethene	0.0212		0.0010	0.00025
10061-02-6	trans-1,3-Dichloropropene	0.0204		0.0010	0.00027
79-01-6	Trichloroethene	0.0195		0.0010	0.00014
75-69-4	Trichlorofluoromethane	0.0158		0.0010	0.00041
75-01-4	Vinyl chloride	0.0193		0.0010	0.00055
1330-20-7	Xylenes, Total	0.0390		0.0020	0.00025

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		78-135
460-00-4	4-Bromofluorobenzene	105		67-126
1868-53-7	Dibromofluoromethane (Surr)	107		61-149
2037-26-5	Toluene-d8 (Surr)	105		73-121

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80984.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 20-Mar-2018 10:52:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0069025-005
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Mar-2018 13:17:00 Calib Date: 10-Mar-2018 00:31:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180309-68588.b\K80599.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 20-Mar-2018 13:17:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.596	1.614	-0.018	88	12459	20.0	19.0	a
2 Dichlorodifluoromethane	85	1.639	1.626	0.013	99	72844	20.0	15.8	
3 Chloromethane	50	1.803	1.803	0.000	98	73845	20.0	22.1	
5 Butadiene	54	1.913	1.907	0.006	98	46970	20.0	18.7	
4 Vinyl chloride	62	1.913	1.913	0.000	87	68301	20.0	19.3	
6 Bromomethane	94	2.206	2.200	0.006	99	56951	20.0	18.8	
7 Chloroethane	64	2.273	2.273	0.000	99	34180	20.0	19.4	
8 Trichlorofluoromethane	101	2.462	2.474	-0.012	58	89631	20.0	15.8	
9 Dichlorofluoromethane	67	2.468	2.474	-0.006	98	112359	20.0	19.8	
10 Pentane	72	2.504	2.498	0.006	98	15309	40.0	33.0	
11 Ethyl ether	59	2.699	2.699	0.000	94	42650	20.0	23.8	
12 Ethanol	46	2.693	2.712	-0.019	75	8758	800.0	915.3	
13 2-Methyl-1,3-butadiene	53	2.724	2.718	0.006	97	43484	20.0	21.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.754	0.000	95	48318	20.0	17.9	
15 Acrolein	56	2.882	2.876	0.006	97	109924	300.0	322.4	
16 1,1,2-Trichloro-1,2,2-trif	101	2.894	2.894	0.000	97	65619	20.0	18.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	53144	20.0	19.0	
18 Acetone	43	3.004	3.004	0.000	85	91839	100.0	94.5	
19 Iodomethane	142	3.083	3.077	0.006	99	113384	20.0	19.0	
22 Isopropyl alcohol	45	3.083	3.083	0.000	1	41005	200.0	240.5	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	194078	20.0	21.4	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	94	32207	20.0	21.4	
23 Methyl acetate	43	3.248	3.248	0.000	100	201794	100.0	138.8	
24 Cyclopentene	67	3.266	3.266	0.000	91	121687	20.0	21.2	
29 Acetonitrile	41	3.315	3.309	0.006	97	82649	200.0	252.5	M
* 25 TBA-d9 (IS)	65	3.376	3.352	0.024	0	271068	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	91	66237	20.0	20.9	
27 2-Methyl-2-propanol	59	3.437	3.425	0.012	96	73404	200.0	189.1	M
28 Methyl tert-butyl ether	73	3.535	3.535	0.000	97	168247	20.0	21.7	
30 trans-1,2-Dichloroethene	96	3.571	3.565	0.006	95	59239	20.0	21.2	
31 Acrylonitrile	53	3.638	3.638	0.000	91	194457	200.0	254.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.724	3.724	0.000	93	47965	20.0	26.7	
33 Isopropyl ether	45	3.931	3.925	0.006	96	194302	20.0	28.1	
34 1,1-Dichloroethane	63	3.980	3.974	0.006	72	103183	20.0	23.4	
35 Vinyl acetate	86	3.980	3.980	0.000	100	17164	40.0	34.2	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	92	46291	20.0	20.7	
37 Tert-butyl ethyl ether	59	4.254	4.248	0.006	88	179398	20.0	23.8	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	206675	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.486	0.000	96	30196	20.0	20.3	
40 cis-1,2-Dichloroethene	96	4.510	4.504	0.006	67	67183	20.0	20.3	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	95	31168	100.0	83.5	
41 Ethyl acetate	70	4.510	4.510	0.000	87	9608	40.0	30.0	
44 Methyl acrylate	55	4.565	4.565	0.000	98	47333	20.0	25.6	
43 Propionitrile	54	4.650	4.644	0.006	98	82816	200.0	209.9	
45 Tetrahydrofuran	72	4.736	4.736	0.000	66	14398	40.0	31.9	
46 Chlorobromomethane	128	4.736	4.742	-0.006	76	33579	20.0	19.1	
47 Methacrylonitrile	67	4.754	4.748	0.006	94	209326	200.0	230.1	
48 Chloroform	83	4.790	4.784	0.006	99	112698	20.0	21.4	
49 Cyclohexane	84	4.931	4.931	0.000	92	82663	20.0	19.5	
50 1,1,1-Trichloroethane	97	4.943	4.943	0.000	90	97699	20.0	19.6	
$ 51 Dibromofluoromethane (Surr	113	4.949	4.943	0.006	97	153393	50.0	53.5	
52 Carbon tetrachloride	117	5.065	5.065	0.000	89	82025	20.0	18.4	
53 1,1-Dichloropropene	75	5.089	5.089	0.000	97	73606	20.0	21.6	
56 Isobutyl alcohol	74	5.199	5.193	0.006	91	5979	500.0	429.7	
54 Benzene	78	5.290	5.290	0.000	95	217453	20.0	22.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.303	5.303	0.000	0	155323	50.0	54.8	
57 Isopropyl acetate	43	5.333	5.333	0.000	96	168213	20.0	24.0	
58 Tert-amyl methyl ether	73	5.345	5.339	0.006	97	177372	20.0	21.8	
59 1,2-Dichloroethane	62	5.382	5.382	0.000	96	78075	20.0	20.7	
60 n-Heptane	57	5.437	5.431	0.006	95	41667	20.0	21.9	
* 61 Fluorobenzene	96	5.577	5.577	0.000	99	416304	50.0	50.0	
62 n-Butanol	56	5.863	5.857	0.006	90	38864	500.0	499.0	
63 Trichloroethene	95	5.937	5.937	0.000	97	56412	20.0	19.5	
64 Ethyl acrylate	56	6.071	6.065	0.006	80	33156	20.0	23.0	M
65 Methylcyclohexane	83	6.071	6.071	0.000	95	96692	20.0	19.1	
66 1,2-Dichloropropane	63	6.235	6.229	0.006	89	55232	20.0	23.3	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	21649	1000.0	1000.0	
68 Methyl methacrylate	41	6.290	6.290	0.000	89	76264	40.0	42.3	
69 1,4-Dioxane	88	6.333	6.339	-0.006	28	13470	400.0	348.5	
70 n-Propyl acetate	43	6.345	6.345	0.000	99	74027	20.0	27.9	
71 Dibromomethane	93	6.369	6.363	0.006	95	36587	20.0	20.3	
72 Dichlorobromomethane	83	6.516	6.510	0.006	99	74954	20.0	20.1	
73 2-Chloroethyl vinyl ether	63	6.845	6.845	0.000	73	24505	20.0	23.6	
74 2-Nitropropane	41	6.845	6.845	0.000	82	22111	40.0	35.6	
75 Epichlorohydrin	57	6.961	6.955	0.006	99	106017	400.0	374.8	
76 cis-1,3-Dichloropropene	75	7.016	7.016	0.000	93	84054	20.0	21.6	
77 4-Methyl-2-pentanone (MIBK	43	7.168	7.168	0.000	98	276908	100.0	108.5	
$ 78 Toluene-d8 (Surr)	98	7.266	7.266	0.000	98	515766	50.0	52.7	
79 Toluene	91	7.345	7.345	0.000	92	229111	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.692	7.692	0.000	98	69405	20.0	20.4	
81 Ethyl methacrylate	69	7.711	7.705	0.006	89	58901	20.0	22.6	
82 1,1,2-Trichloroethane	83	7.912	7.912	0.000	95	39056	20.0	20.7	
83 Tetrachloroethene	166	7.967	7.961	0.006	98	60310	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.125	8.125	0.000	92	75096	20.0	22.4	
85 2-Hexanone	43	8.174	8.168	0.006	98	176089	100.0	106.6	
86 n-Butyl acetate	43	8.284	8.284	0.000	98	77695	20.0	28.6	
87 Chlorodibromomethane	129	8.369	8.363	0.006	98	56177	20.0	17.8	
88 Ethylene Dibromide	107	8.528	8.528	0.000	99	49184	20.0	19.9	
* 89 Chlorobenzene-d5	117	9.070	9.070	0.000	85	338255	50.0	50.0	
90 Chlorobenzene	112	9.107	9.107	0.000	95	144584	20.0	18.7	
92 Ethylbenzene	106	9.198	9.198	0.000	99	75503	20.0	19.5	
91 1,1,1,2-Tetrachloroethane	131	9.223	9.223	0.000	94	61327	20.0	18.7	
93 m-Xylene & p-Xylene	106	9.344	9.351	-0.007	0	90795	20.0	19.1	
94 n-Butyl acrylate	73	9.777	9.783	-0.006	95	35909	20.0	23.2	
95 o-Xylene	106	9.814	9.814	0.000	92	98027	20.0	19.9	
96 Styrene	104	9.850	9.844	0.006	96	156323	20.0	19.9	
97 Amyl acetate (mixed isomer	43	10.033	10.033	0.000	89	87718	20.0	27.9	
98 Bromoform	173	10.082	10.082	0.000	97	38162	20.0	17.5	
99 Isopropylbenzene	105	10.198	10.198	0.000	95	275196	20.0	18.6	
$ 100 4-Bromofluorobenzene	174	10.417	10.417	0.000	94	174363	50.0	52.4	
101 Bromobenzene	156	10.558	10.558	0.000	95	70943	20.0	19.1	
102 1,1,2,2-Tetrachloroethane	83	10.600	10.594	0.006	98	68403	20.0	21.7	
103 N-Propylbenzene	91	10.625	10.625	0.000	99	323475	20.0	21.3	
104 1,2,3-Trichloropropane	110	10.649	10.649	0.000	96	18261	20.0	17.8	
105 trans-1,4-Dichloro-2-buten	53	10.667	10.661	0.006	90	15781	20.0	20.9	
107 4-Ethyltoluene	105	10.741	10.741	0.001	89	268614	20.0	19.9	
106 2-Chlorotoluene	91	10.741	10.741	0.001	91	221512	20.0	20.5	
108 1,3,5-Trimethylbenzene	105	10.808	10.808	0.000	92	233017	20.0	19.4	
109 4-Chlorotoluene	91	10.856	10.856	0.000	97	193126	20.0	21.1	
110 Butyl Methacrylate	87	10.899	10.899	0.000	91	70294	20.0	22.1	
111 tert-Butylbenzene	119	11.106	11.100	0.006	94	184772	20.0	17.4	
112 1,2,4-Trimethylbenzene	105	11.167	11.161	0.006	97	249716	20.0	20.2	
113 sec-Butylbenzene	105	11.307	11.307	0.000	100	308494	20.0	18.9	
114 4-Isopropyltoluene	119	11.442	11.436	0.006	98	261180	20.0	17.9	
115 1,3-Dichlorobenzene	146	11.448	11.448	0.000	97	138198	20.0	19.3	
* 116 1,4-Dichlorobenzene-d4	152	11.515	11.515	0.000	93	199728	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.539	11.539	0.000	96	140176	20.0	19.4	
118 Benzyl chloride	91	11.667	11.667	0.000	98	110301	20.0	19.6	
119 2,3-Dihydroindene	117	11.728	11.728	0.000	94	258213	20.0	19.9	
120 p-Diethylbenzene	119	11.777	11.771	0.006	93	149781	20.0	19.6	
121 n-Butylbenzene	92	11.795	11.795	0.000	97	139037	20.0	20.1	
122 1,2-Dichlorobenzene	146	11.868	11.868	0.000	98	142504	20.0	19.4	
123 1,2,4,5-Tetramethylbenzene	119	12.429	12.429	0.000	97	263502	20.0	19.3	
124 1,2-Dibromo-3-Chloropropan	75	12.527	12.527	0.000	94	14331	20.0	19.9	
125 1,3,5-Trichlorobenzene	180	12.643	12.643	0.000	97	126795	20.0	20.1	
126 1,2,4-Trichlorobenzene	180	13.136	13.136	0.000	93	125237	20.0	20.4	
127 Hexachlorobutadiene	225	13.216	13.216	0.000	97	59211	20.0	18.9	
128 Naphthalene	128	13.331	13.331	0.000	99	294738	20.0	19.9	
129 1,2,3-Trichlorobenzene	180	13.520	13.520	0.000	96	125520	20.0	20.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.5	
S 131 Xylenes, Total	100				0		40.0	39.0	
S 132 Total BTEX	1				0		100.0	101.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00074	Amount Added:	2.00	Units: uL	
ACROLEIN W_00074	Amount Added:	3.00	Units: uL	
GASES Li_00251	Amount Added:	2.00	Units: uL	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Mar-2018 13:17:02 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180320-69025.b\K80984.D

Injection Date: 20-Mar-2018 10:52:30 Instrument ID: CVOAMS9 Operator ID:

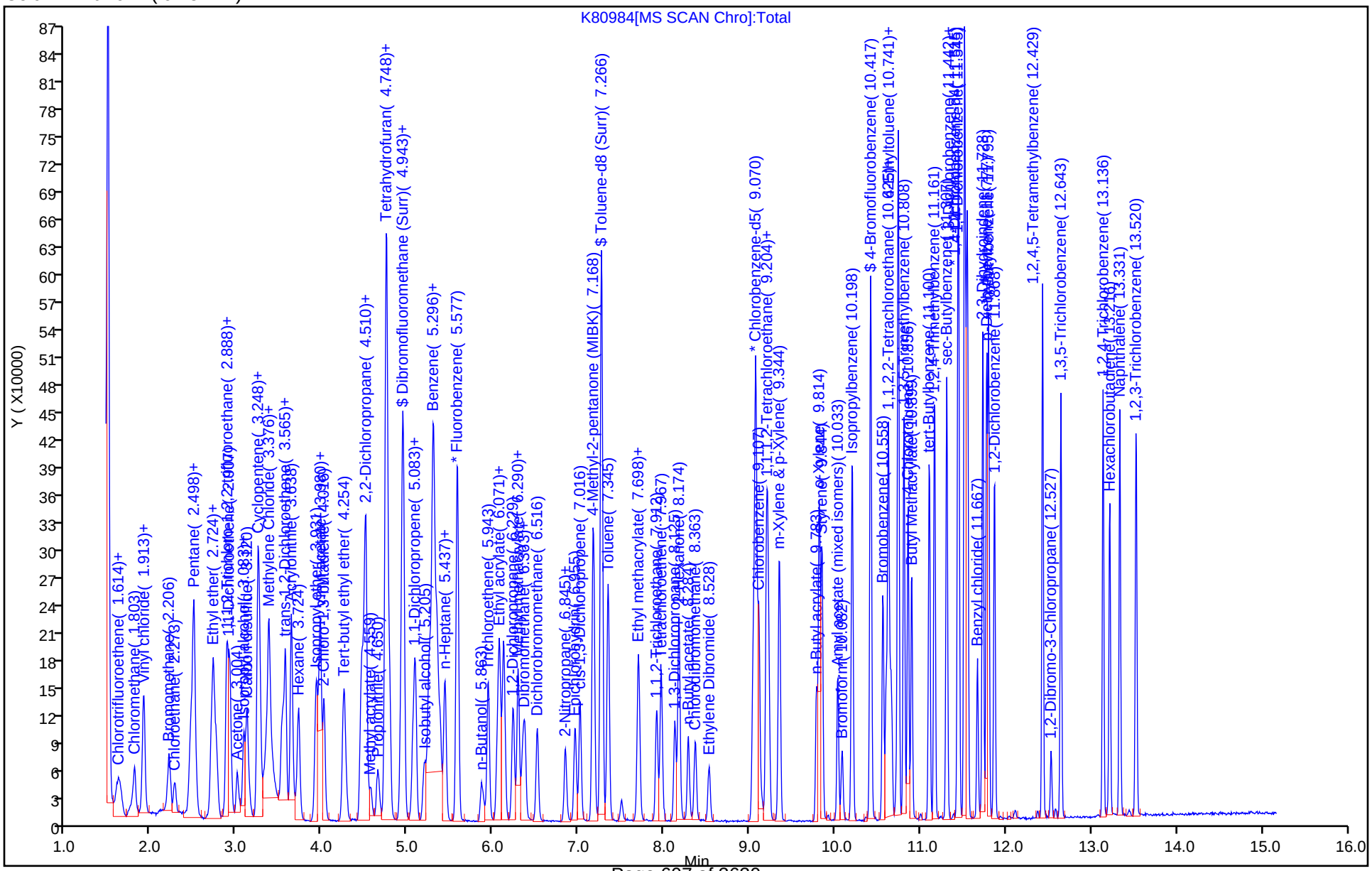
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504963/4

Matrix: Solid | Lab File ID: P42880.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2018 09:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 504963 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	21.4		1.0	0.34
107-06-2	1,2-Dichloroethane	20.7		1.0	0.25
106-46-7	1,4-Dichlorobenzene	18.6		1.0	0.33
78-93-3	2-Butanone (MEK)	111		5.0	2.2
71-43-2	Benzene	18.5		1.0	0.19
56-23-5	Carbon tetrachloride	20.4		1.0	0.33
108-90-7	Chlorobenzene	20.2		1.0	0.24
67-66-3	Chloroform	22.1		1.0	0.22
127-18-4	Tetrachloroethene	19.2		1.0	0.36
79-01-6	Trichloroethene	23.4		1.0	0.22
75-01-4	Vinyl chloride	21.6		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
1868-53-7	Dibromofluoromethane (Surr)	108		72-131
2037-26-5	Toluene-d8 (Surr)	93		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42880.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 21-Mar-2018 09:41:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0069071-004
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Mar-2018 10:30:27 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: desais Date: 21-Mar-2018 10:28:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	86	19723	20.0	21.5	
2 Dichlorodifluoromethane	85	0.871	0.871	-0.001	99	56575	20.0	19.0	
4 Chloromethane	50	0.985	0.985	0.000	98	51235	20.0	19.2	
5 Vinyl chloride	62	1.007	1.007	0.000	98	73089	20.0	21.6	
3 Butadiene	54	1.014	1.014	0.000	95	60751	20.0	20.1	
6 Bromomethane	94	1.171	1.171	0.000	99	30970	20.0	33.5	
7 Chloroethane	64	1.221	1.229	-0.008	99	32961	20.0	15.4	
9 Pentane	72	1.293	1.293	0.000	98	16412	40.0	35.1	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	97	72925	20.0	22.3	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	99425	20.0	22.4	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	71960	20.0	21.0	
12 Ethyl ether	59	1.465	1.465	0.000	95	48923	20.0	20.9	
13 Ethanol	46	1.551	1.551	0.000	99	11947	800.0	762.5	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	87	64886	20.0	21.7	
14 1,1-Dichloroethene	96	1.565	1.565	0.000	97	51380	20.0	21.4	
16 Carbon disulfide	76	1.580	1.580	0.000	98	172241	20.0	19.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	94	45019	20.0	20.2	
18 Iodomethane	142	1.637	1.637	0.000	96	46804	20.0	18.2	
19 Cyclopentene	67	1.723	1.723	0.000	95	129164	20.0	20.3	
20 Acrolein	56	1.744	1.744	0.000	94	6946	40.0	15.7	
21 3-Chloro-1-propene	76	1.823	1.823	0.000	94	33090	20.0	22.0	
22 Isopropyl alcohol	45	1.859	1.859	0.000	97	33949	200.0	181.0	
23 Methylene Chloride	84	1.888	1.888	0.000	91	62301	20.0	20.7	
24 Acetone	43	1.916	1.916	0.000	88	67907	100.0	99.8	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	94	58393	20.0	22.1	
26 Methyl acetate	43	1.988	1.988	0.000	99	194545	100.0	93.8	
27 Hexane	86	2.024	2.024	0.000	89	11921	20.0	18.5	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	95	162458	20.0	21.8	
* 29 TBA-d9 (IS)	65	2.074	2.074	0.000	0	245702	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.124	2.117	0.007	99	52609	200.0	180.8	
31 Acetonitrile	41	2.188	2.189	-0.001	99	71392	200.0	179.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.282	2.282	0.000	97	190398	20.0	20.3	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	88	50700	20.0	21.7	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	100	98876	20.0	21.3	
35 Acrylonitrile	53	2.382	2.382	0.000	96	210188	200.0	200.3	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	90	172760	20.0	20.9	
37 Vinyl acetate	43	2.518	2.518	0.000	100	206148	40.0	36.2	
38 cis-1,2-Dichloroethene	96	2.711	2.711	0.000	99	62930	20.0	22.2	
39 2,2-Dichloropropane	77	2.776	2.776	0.000	98	72127	20.0	21.5	
40 Cyclohexane	56	2.840	2.840	0.000	90	85156	20.0	19.0	
41 Chlorobromomethane	128	2.847	2.848	-0.001	89	29974	20.0	22.8	
42 Chloroform	83	2.905	2.905	0.000	99	93191	20.0	22.1	
43 Carbon tetrachloride	117	2.998	2.998	0.000	99	55832	20.0	20.4	
44 Ethyl acetate	70	3.012	3.005	0.007	99	13180	40.0	44.2	
45 Methyl acrylate	55	3.012	3.012	0.000	97	48045	20.0	20.0	
46 Tetrahydrofuran	42	3.019	3.019	0.000	94	42440	40.0	42.0	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	98	121782	50.0	53.9	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	98	74358	20.0	21.6	
* 49 2-Butanone-d5	46	3.105	3.105	0.000	0	211805	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	35022	100.0	110.6	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	88	77354	20.0	20.3	
52 Isooctane	57	3.234	3.234	0.000	99	137895	20.0	17.4	
53 n-Heptane	57	3.327	3.327	0.000	90	37918	20.0	18.1	
54 Benzene	78	3.335	3.335	0.000	94	237923	20.0	18.5	
55 Propionitrile	54	3.356	3.356	0.000	99	78870	200.0	199.2	
56 Methacrylonitrile	67	3.378	3.378	0.000	90	245180	200.0	218.8	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	127900	50.0	50.0	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	168082	20.0	21.7	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	69929	20.0	20.7	
60 Isobutyl alcohol	43	3.578	3.571	0.007	96	52042	500.0	431.5	
61 t-Amyl alcohol	59	3.650	3.643	0.007	98	37827	200.0	184.9	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	277406	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	103544	20.0	20.7	
64 Methylcyclohexane	83	3.815	3.815	-0.001	95	86938	20.0	19.9	
65 Trichloroethene	130	3.829	3.829	0.000	96	63290	20.0	23.4	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	94	134146	20.0	21.4	
67 Dibromomethane	93	4.208	4.201	0.007	99	36120	20.0	23.1	
68 n-Butanol	56	4.216	4.216	0.000	88	34335	500.0	515.2	
69 1,2-Dichloropropane	63	4.294	4.294	0.000	93	61927	20.0	22.1	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	71205	20.0	21.9	
71 Dichlorobromomethane	83	4.380	4.380	0.000	99	67098	20.0	22.0	
* 72 1,4-Dioxane-d8	96	4.567	4.574	-0.007	0	27331	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	91	31677	40.0	44.3	
74 1,4-Dioxane	88	4.602	4.588	0.014	95	13273	400.0	382.7	
75 n-Propyl acetate	43	4.731	4.731	0.000	98	72526	20.0	19.6	
76 2-Chloroethyl vinyl ether	63	4.996	4.996	0.000	97	35863	20.0	23.4	
77 cis-1,3-Dichloropropene	75	5.025	5.032	-0.007	91	94591	20.0	19.1	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	544841	50.0	46.5	
79 Toluene	91	5.283	5.283	0.000	93	270681	20.0	19.3	
80 Epichlorohydrin	57	5.312	5.312	0.000	99	108232	400.0	489.0	
81 2-Nitropropane	41	5.541	5.541	0.000	97	20378	40.0	37.7	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	63286	20.0	19.2	
83 4-Methyl-2-pentanone (MIBK	43	5.749	5.756	-0.007	96	259217	100.0	111.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	95	81744	20.0	19.3	
85 1,1,2-Trichloroethane	83	5.963	5.963	0.000	96	45938	20.0	19.9	
86 Ethyl methacrylate	69	6.042	6.042	0.000	89	72922	20.0	22.6	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	53036	20.0	19.1	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	92	95716	20.0	19.6	
89 Ethylene Dibromide	107	6.415	6.408	0.007	99	54071	20.0	20.2	
90 n-Butyl acetate	43	6.751	6.751	0.000	98	75019	20.0	13.7	
91 2-Hexanone	43	6.816	6.816	0.000	96	180931	100.0	110.5	
* 92 Chlorobenzene-d5	117	7.110	7.102	0.008	85	408338	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	177096	20.0	20.2	
94 Ethylbenzene	106	7.210	7.210	0.000	98	95034	20.0	20.0	
95 1,1,1,2-Tetrachloroethane	131	7.238	7.238	0.000	95	52302	20.0	19.3	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	117320	20.0	20.1	
97 o-Xylene	106	8.019	8.019	0.000	95	112260	20.0	20.2	
98 Bromoform	173	8.084	8.084	0.000	95	30891	20.0	18.4	
99 Styrene	104	8.105	8.105	0.000	96	182623	20.0	20.7	
100 n-Butyl acrylate	73	8.428	8.428	0.000	97	37938	20.0	14.7	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	293049	20.0	20.1	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	82987	20.0	12.7	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	91	168519	50.0	49.2	
104 Bromobenzene	156	8.993	8.993	0.000	97	74909	20.0	18.8	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	345191	20.0	18.7	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	99	71064	20.0	18.1	
107 2-Chlorotoluene	91	9.316	9.316	0.000	96	232546	20.0	18.3	
108 4-Ethyltoluene	105	9.330	9.330	0.000	98	297554	20.0	19.0	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	20487	20.0	18.3	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	241791	20.0	18.9	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	88	17111	20.0	17.3	
112 4-Chlorotoluene	91	9.588	9.588	0.000	97	213191	20.0	18.5	
113 tert-Butylbenzene	119	9.953	9.953	0.000	96	206812	20.0	18.8	
114 Butyl Methacrylate	87	10.082	10.089	-0.007	93	65460	20.0	15.8	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	248673	20.0	18.7	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	312106	20.0	18.9	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	97	144924	20.0	19.6	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	262061	20.0	18.8	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	257311	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	147536	20.0	18.6	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	258535	20.0	18.9	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	95	267772	20.0	19.5	
122 Benzyl chloride	126	11.128	11.121	0.007	98	17153	20.0	11.9	
123 p-Diethylbenzene	119	11.142	11.142	0.000	94	140030	20.0	19.0	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	231660	20.0	18.3	
125 1,2-Dichlorobenzene	146	11.321	11.321	0.000	97	138499	20.0	19.6	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	242060	20.0	19.4	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	94	12125	20.0	17.9	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	100781	20.0	19.6	
129 1,2,4-Trichlorobenzene	180	13.076	13.076	0.000	94	90323	20.0	18.9	
130 Hexachlorobutadiene	225	13.091	13.091	0.000	95	32947	20.0	18.9	
131 Naphthalene	128	13.377	13.377	0.000	99	207850	20.0	18.5	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	95	81139	20.0	19.5	
S 133 1,2-Dichloroethene, Total	100				0		40.0	44.4	
S 134 1,3-Dichloropropene, Total	100				0		40.0	38.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 135 Xylenes, Total	100				0		40.0	40.3	
S 137 Total BTEX	1				0		100.0	98.1	

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 10:30:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180321-69071.b\P42880.D

Injection Date: 21-Mar-2018 09:41:30 Instrument ID: CVOAMS13 Operator ID:

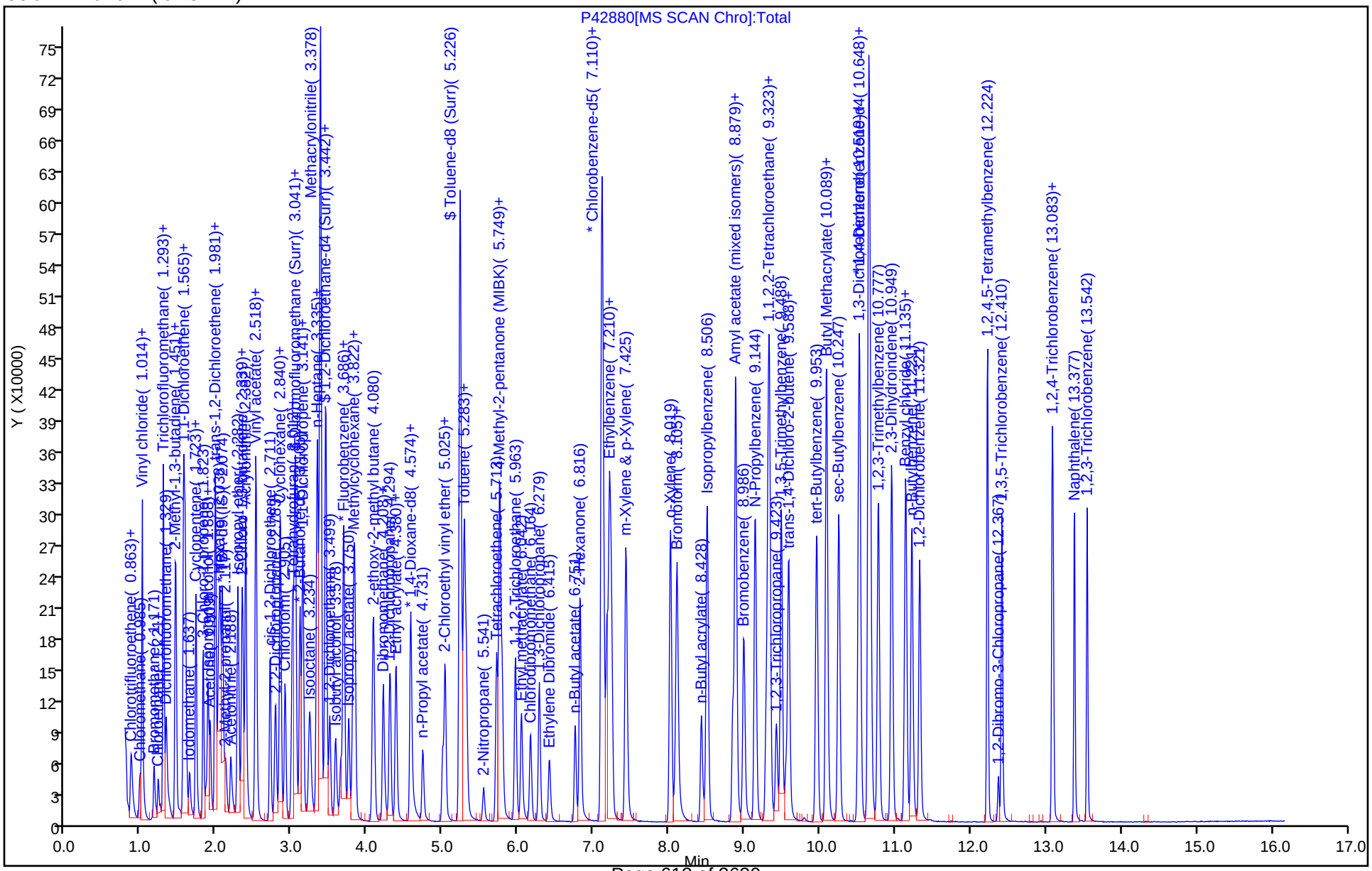
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-505144/4

Matrix: Water | Lab File ID: P42909.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 08:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.8		1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	17.7		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.9		1.0	0.34
79-00-5	1,1,2-Trichloroethane	20.0		1.0	0.080
75-34-3	1,1-Dichloroethane	21.3		1.0	0.24
75-35-4	1,1-Dichloroethene	20.9		1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	19.9		1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	19.5		1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	18.7		1.0	0.23
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.0	0.23
95-50-1	1,2-Dichlorobenzene	19.9		1.0	0.22
107-06-2	1,2-Dichloroethane	21.4		1.0	0.25
78-87-5	1,2-Dichloropropane	21.9		1.0	0.18
108-67-8	1,3,5-Trimethylbenzene	18.9		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.33
106-46-7	1,4-Dichlorobenzene	18.9		1.0	0.33
78-93-3	2-Butanone (MEK)	114		5.0	2.2
591-78-6	2-Hexanone	111		5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	112		5.0	0.63
67-64-1	Acetone	99.3		5.0	1.1
107-02-8	Acrolein	82.9		4.0	0.88
107-13-1	Acrylonitrile	197		2.0	1.0
71-43-2	Benzene	18.4		1.0	0.090
75-25-2	Bromoform	19.0		1.0	0.18
74-83-9	Bromomethane	30.2		1.0	0.18
75-15-0	Carbon disulfide	19.7		1.0	0.22
56-23-5	Carbon tetrachloride	20.6		1.0	0.33
108-90-7	Chlorobenzene	20.4		1.0	0.24
74-97-5	Chlorobromomethane	24.5		1.0	0.30
124-48-1	Chlorodibromomethane	19.6		1.0	0.22
75-00-3	Chloroethane	16.4		1.0	0.37
67-66-3	Chloroform	22.5		1.0	0.22
74-87-3	Chloromethane	19.7		1.0	0.22
156-59-2	cis-1,2-Dichloroethene	22.4		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	18.7		1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-505144/4

Matrix: Water | Lab File ID: P42909.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 08:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 505144 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	17.4		1.0	0.26
75-27-4	Dichlorobromomethane	22.7		1.0	0.15
75-71-8	Dichlorodifluoromethane	15.3		1.0	0.14
100-41-4	Ethylbenzene	20.0		1.0	0.30
106-93-4	Ethylene Dibromide	20.4		1.0	0.19
98-82-8	Isopropylbenzene	19.8		1.0	0.32
79-20-9	Methyl acetate	92.5		5.0	0.58
1634-04-4	Methyl tert-butyl ether	21.5		1.0	0.13
108-87-2	Methylcyclohexane	18.4		1.0	0.22
75-09-2	Methylene Chloride	21.1		1.0	0.21
179601-23-1	m-Xylene & p-Xylene	20.0		1.0	0.28
104-51-8	n-Butylbenzene	18.5		1.0	0.27
103-65-1	N-Propylbenzene	18.6		1.0	0.29
95-47-6	o-Xylene	20.2		1.0	0.32
135-98-8	sec-Butylbenzene	18.8		1.0	0.31
100-42-5	Styrene	20.9		1.0	0.17
98-06-6	tert-Butylbenzene	18.5		1.0	0.28
127-18-4	Tetrachloroethene	19.3		1.0	0.12
108-88-3	Toluene	19.1		1.0	0.25
156-60-5	trans-1,2-Dichloroethene	22.2		1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	19.3		1.0	0.19
79-01-6	Trichloroethene	23.3		1.0	0.22
75-69-4	Trichlorofluoromethane	21.6		1.0	0.15
75-01-4	Vinyl chloride	21.1		1.0	0.060
1330-20-7	Xylenes, Total	40.3		2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
1868-53-7	Dibromofluoromethane (Surr)	109		72-131
2037-26-5	Toluene-d8 (Surr)	92		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42909.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 22-Mar-2018 08:01:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0069112-004
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 16:11:18 Calib Date: 06-Mar-2018 02:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180305-68378.b\P42060.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 22-Mar-2018 10:09:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	87	12109	20.0	14.1	
2 Dichlorodifluoromethane	85	0.871	0.871	0.001	99	42630	20.0	15.3	
4 Chloromethane	50	0.985	0.985	0.000	98	49049	20.0	19.7	
5 Vinyl chloride	62	1.007	1.007	0.000	97	66711	20.0	21.1	
3 Butadiene	54	1.014	1.014	0.000	97	51717	20.0	18.3	
6 Bromomethane	94	1.164	1.171	-0.007	99	25628	20.0	30.2	
7 Chloroethane	64	1.222	1.221	0.001	99	32853	20.0	16.4	
9 Pentane	72	1.286	1.293	-0.007	96	13230	40.0	30.4	
8 Trichlorofluoromethane	101	1.293	1.293	0.000	97	65968	20.0	21.6	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	93830	20.0	22.6	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	64509	20.0	20.1	
12 Ethyl ether	59	1.465	1.465	0.000	94	46411	20.0	21.2	
13 Ethanol	46	1.558	1.551	0.007	35	11255	800.0	771.8	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	87	59352	20.0	21.2	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	97	46882	20.0	20.9	
16 Carbon disulfide	76	1.580	1.580	0.000	99	162374	20.0	19.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	96	39349	20.0	18.9	
18 Iodomethane	142	1.637	1.637	0.000	96	39830	20.0	16.6	
19 Cyclopentene	67	1.723	1.723	0.000	96	114763	20.0	19.3	
20 Acrolein	56	2.024	1.744	0.280	67	34062	40.0	82.9	a
21 3-Chloro-1-propene	76	1.823	1.823	0.000	93	31844	20.0	22.6	
22 Isopropyl alcohol	45	1.859	1.859	0.000	97	30980	200.0	177.4	
23 Methylene Chloride	84	1.888	1.880	0.008	91	59577	20.0	21.1	
24 Acetone	43	1.916	1.916	0.000	88	61972	100.0	99.3	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	94	54842	20.0	22.2	
26 Methyl acetate	43	1.988	1.988	0.000	99	179256	100.0	92.5	
27 Hexane	86	2.024	2.024	0.000	90	10541	20.0	17.5	
28 Methyl tert-butyl ether	73	2.045	2.045	0.000	96	150073	20.0	21.5	
* 29 TBA-d9 (IS)	65	2.081	2.074	0.007	0	228698	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.124	2.124	0.000	99	49552	200.0	183.0	
31 Acetonitrile	41	2.189	2.189	0.001	100	66425	200.0	178.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.282	2.282	0.000	97	171862	20.0	19.6	
33 2-Chloro-1,3-butadiene	88	2.332	2.332	0.000	89	46330	20.0	21.2	
34 1,1-Dichloroethane	63	2.346	2.346	0.000	100	92658	20.0	21.3	
35 Acrylonitrile	53	2.382	2.382	0.000	95	193479	200.0	197.2	
36 Tert-butyl ethyl ether	59	2.518	2.518	0.000	90	160416	20.0	20.7	
37 Vinyl acetate	43	2.518	2.518	0.000	100	214735	40.0	40.4	
38 cis-1,2-Dichloroethene	96	2.712	2.711	0.001	98	59118	20.0	22.4	
39 2,2-Dichloropropane	77	2.783	2.776	0.007	98	68548	20.0	21.8	
40 Cyclohexane	56	2.840	2.840	0.000	89	72830	20.0	17.4	
41 Chlorobromomethane	128	2.848	2.848	0.000	90	30166	20.0	24.5	
42 Chloroform	83	2.905	2.905	0.000	99	88813	20.0	22.5	
43 Carbon tetrachloride	117	2.998	2.998	0.000	98	52691	20.0	20.6	
44 Ethyl acetate	70	3.012	3.012	0.000	98	11427	40.0	41.8	
45 Methyl acrylate	55	3.012	3.012	0.000	59	45310	20.0	20.2	
46 Tetrahydrofuran	42	3.020	3.019	0.001	96	38675	40.0	41.8	
$ 47 Dibromofluoromethane (Surr	113	3.041	3.041	0.000	97	114632	50.0	54.3	
48 1,1,1-Trichloroethane	97	3.048	3.048	0.000	98	69925	20.0	21.8	
* 49 2-Butanone-d5	46	3.106	3.105	0.001	0	194286	250.0	250.0	
50 2-Butanone (MEK)	72	3.141	3.141	0.000	97	32975	100.0	113.5	
51 1,1-Dichloropropene	75	3.141	3.141	0.000	87	71638	20.0	20.1	
52 Isooctane	57	3.234	3.234	0.000	100	115864	20.0	15.6	
53 n-Heptane	57	3.328	3.327	0.001	88	33062	20.0	16.9	
54 Benzene	78	3.335	3.335	0.000	93	226491	20.0	18.4	
55 Propionitrile	54	3.363	3.356	0.007	97	72709	200.0	197.3	
56 Methacrylonitrile	67	3.378	3.378	0.000	91	230140	200.0	219.7	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.442	0.000	0	122415	50.0	51.2	
58 Tert-amyl methyl ether	73	3.449	3.449	0.000	99	156950	20.0	21.7	
59 1,2-Dichloroethane	62	3.499	3.499	0.000	97	67658	20.0	21.4	
60 Isobutyl alcohol	43	3.578	3.578	0.000	98	48925	500.0	435.8	
61 t-Amyl alcohol	59	3.650	3.650	0.000	97	35685	200.0	187.4	
* 62 Fluorobenzene	96	3.686	3.686	0.000	99	259344	50.0	50.0	
63 Isopropyl acetate	43	3.750	3.750	0.000	99	91788	20.0	19.6	
64 Methylcyclohexane	83	3.815	3.815	0.000	95	75030	20.0	18.4	
65 Trichloroethene	130	3.829	3.829	0.000	98	59047	20.0	23.3	
66 2-ethoxy-2-methyl butane	59	4.080	4.080	0.000	95	123877	20.0	21.1	
67 Dibromomethane	93	4.201	4.201	0.000	96	34557	20.0	23.7	
68 n-Butanol	56	4.216	4.216	0.000	85	32700	500.0	526.9	
69 1,2-Dichloropropane	63	4.295	4.294	0.001	92	57488	20.0	21.9	
70 Ethyl acrylate	55	4.373	4.373	0.000	98	64476	20.0	21.2	
71 Dichlorobromomethane	83	4.381	4.380	0.001	99	64771	20.0	22.7	
* 72 1,4-Dioxane-d8	96	4.567	4.567	0.000	0	25002	1000.0	1000.0	
73 Methyl methacrylate	100	4.574	4.574	0.000	92	30439	40.0	45.6	
74 1,4-Dioxane	88	4.603	4.602	0.001	93	12288	400.0	387.3	
75 n-Propyl acetate	43	4.732	4.731	0.001	98	67883	20.0	19.6	
76 2-Chloroethyl vinyl ether	63	4.997	4.996	0.001	96	31850	20.0	22.3	
77 cis-1,3-Dichloropropene	75	5.025	5.032	-0.007	92	88979	20.0	18.7	
$ 78 Toluene-d8 (Surr)	98	5.226	5.226	0.000	99	516725	50.0	46.0	
79 Toluene	91	5.283	5.283	0.000	94	256417	20.0	19.1	
80 Epichlorohydrin	57	5.312	5.312	0.000	98	100981	400.0	497.4	
81 2-Nitropropane	41	5.541	5.541	0.000	97	20232	40.0	40.0	
82 Tetrachloroethene	166	5.713	5.713	0.000	97	61045	20.0	19.3	
83 4-Methyl-2-pentanone (MIBK	43	5.756	5.756	0.000	96	239278	100.0	111.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 trans-1,3-Dichloropropene	75	5.784	5.784	0.000	96	78236	20.0	19.3	
85 1,1,2-Trichloroethane	83	5.964	5.963	0.001	97	44298	20.0	20.0	
86 Ethyl methacrylate	69	6.042	6.042	0.000	90	68693	20.0	22.8	
87 Chlorodibromomethane	129	6.164	6.164	0.000	98	51913	20.0	19.6	
88 1,3-Dichloropropane	76	6.279	6.279	0.000	92	90352	20.0	19.3	
89 Ethylene Dibromide	107	6.408	6.415	-0.007	98	52184	20.0	20.4	
90 n-Butyl acetate	43	6.751	6.751	0.000	99	70207	20.0	13.4	
91 2-Hexanone	43	6.823	6.823	0.000	96	167052	100.0	111.2	
* 92 Chlorobenzene-d5	117	7.110	7.110	0.000	85	391381	50.0	50.0	
93 Chlorobenzene	112	7.124	7.124	0.000	96	171272	20.0	20.4	
94 Ethylbenzene	106	7.210	7.210	0.000	98	90898	20.0	20.0	
95 1,1,1,2-Tetrachloroethane	131	7.239	7.238	0.001	95	53069	20.0	20.4	
96 m-Xylene & p-Xylene	106	7.425	7.425	0.000	0	111970	20.0	20.0	
97 o-Xylene	106	8.019	8.019	0.000	95	107877	20.0	20.2	
98 Bromoform	173	8.084	8.084	0.000	96	30669	20.0	19.0	
99 Styrene	104	8.105	8.105	0.000	97	176761	20.0	20.9	
100 n-Butyl acrylate	73	8.428	8.428	0.000	97	36190	20.0	14.6	
101 Isopropylbenzene	105	8.506	8.506	0.000	95	277232	20.0	19.8	
102 Amyl acetate (mixed isomer	43	8.843	8.843	0.000	92	76889	20.0	12.3	
$ 103 4-Bromofluorobenzene	174	8.886	8.886	0.000	93	162626	50.0	49.6	
104 Bromobenzene	156	8.986	8.993	-0.007	97	72562	20.0	18.9	
105 N-Propylbenzene	91	9.144	9.144	0.000	99	330352	20.0	18.6	
106 1,1,2,2-Tetrachloroethane	83	9.287	9.287	0.000	98	66661	20.0	17.7	
107 2-Chlorotoluene	91	9.316	9.316	0.000	97	222137	20.0	18.1	
108 4-Ethyltoluene	105	9.330	9.330	0.000	99	283996	20.0	18.8	
109 1,2,3-Trichloropropane	110	9.423	9.423	0.000	98	19727	20.0	18.4	
110 1,3,5-Trimethylbenzene	105	9.488	9.488	0.000	94	231441	20.0	18.9	
111 trans-1,4-Dichloro-2-buten	53	9.552	9.552	0.000	89	16484	20.0	17.3	
112 4-Chlorotoluene	91	9.581	9.588	-0.007	97	201191	20.0	18.1	
113 tert-Butylbenzene	119	9.953	9.960	-0.007	96	195031	20.0	18.5	
114 Butyl Methacrylate	87	10.089	10.089	0.000	49	66948	20.0	16.8	
115 1,2,4-Trimethylbenzene	105	10.089	10.089	0.000	96	239971	20.0	18.7	
116 sec-Butylbenzene	105	10.247	10.247	0.000	99	298482	20.0	18.8	
117 1,3-Dichlorobenzene	146	10.512	10.512	0.000	97	139166	20.0	19.6	
118 4-Isopropyltoluene	119	10.526	10.526	0.000	98	253821	20.0	18.9	
* 119 1,4-Dichlorobenzene-d4	152	10.648	10.648	0.000	94	247347	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.670	10.670	0.000	96	144050	20.0	18.9	
138 1,2,3-Trimethylbenzene	105	10.777	10.777	0.000	98	247841	20.0	18.8	
121 2,3-Dihydroindene	117	10.949	10.949	0.000	94	257988	20.0	19.6	
122 Benzyl chloride	126	11.121	11.121	0.000	98	18010	20.0	13.0	
123 p-Diethylbenzene	119	11.142	11.142	0.000	94	135667	20.0	19.1	
124 n-Butylbenzene	91	11.221	11.221	0.000	98	224456	20.0	18.5	
125 1,2-Dichlorobenzene	146	11.322	11.321	0.001	97	135366	20.0	19.9	
126 1,2,4,5-Tetramethylbenzene	119	12.224	12.224	0.000	98	234652	20.0	19.6	
127 1,2-Dibromo-3-Chloropropan	157	12.367	12.367	0.000	94	11750	20.0	18.0	
128 1,3,5-Trichlorobenzene	180	12.410	12.410	0.000	98	99052	20.0	20.1	
129 1,2,4-Trichlorobenzene	180	13.076	13.083	-0.007	94	89411	20.0	19.5	
130 Hexachlorobutadiene	225	13.091	13.098	-0.007	95	31892	20.0	19.0	
131 Naphthalene	128	13.377	13.377	0.000	100	201044	20.0	18.7	
132 1,2,3-Trichlorobenzene	180	13.542	13.542	0.000	96	79456	20.0	19.9	
S 133 1,2-Dichloroethene, Total	100				0		40.0	44.6	
S 134 1,3-Dichloropropene, Total	100				0		40.0	38.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 135 Xylenes, Total	100				0		40.0	40.3	
S 137 Total BTEX	1				0		100.0	97.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 16:11:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42909.D

Injection Date: 22-Mar-2018 08:01:30 Instrument ID: CVOAMS13 Operator ID:

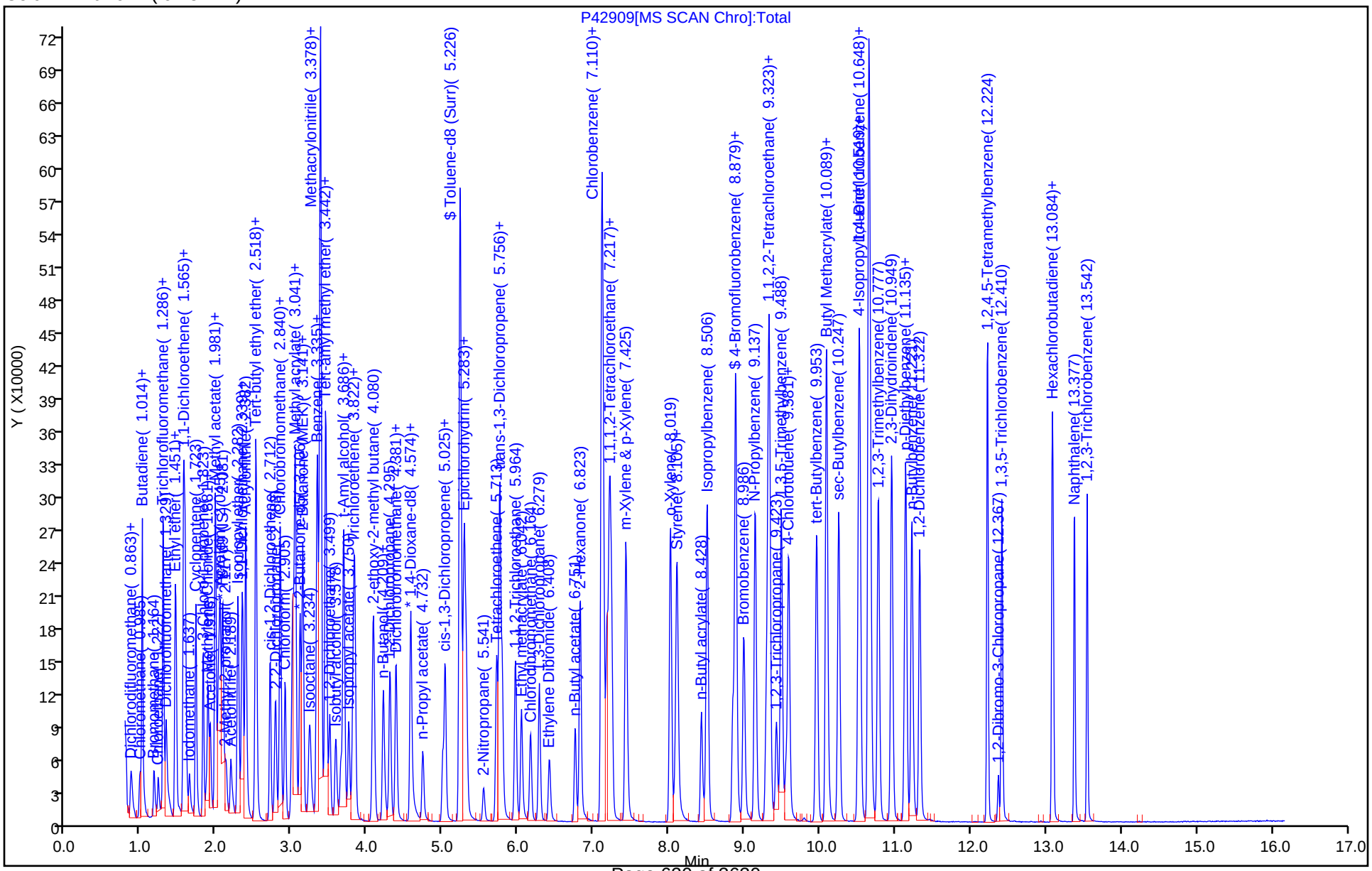
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

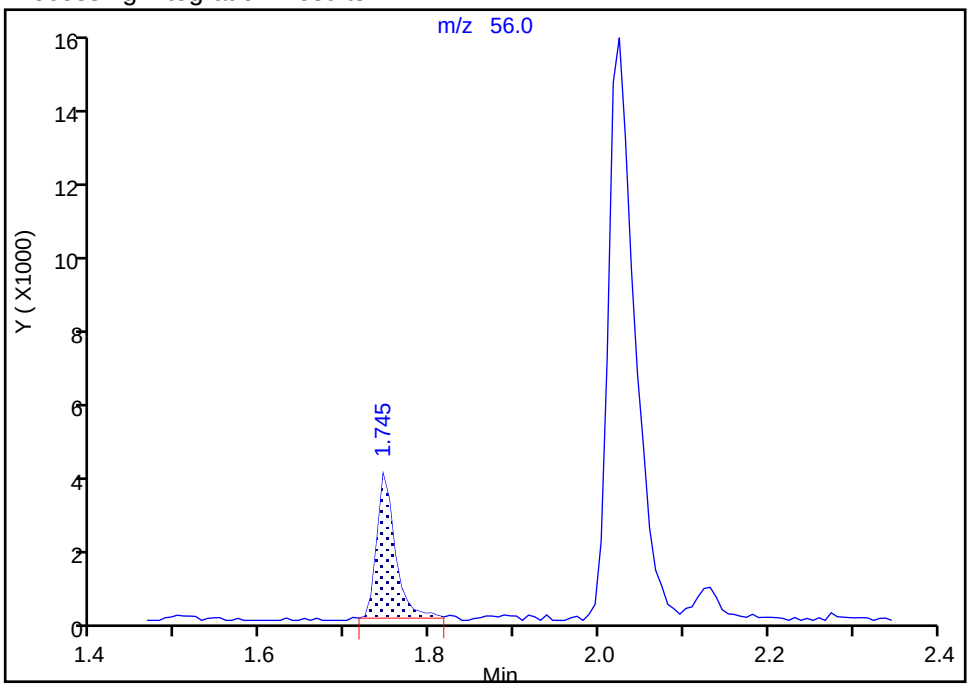
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180322-69112.b\P42909.D
Injection Date: 22-Mar-2018 08:01:30 Instrument ID: CVOAMS13
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

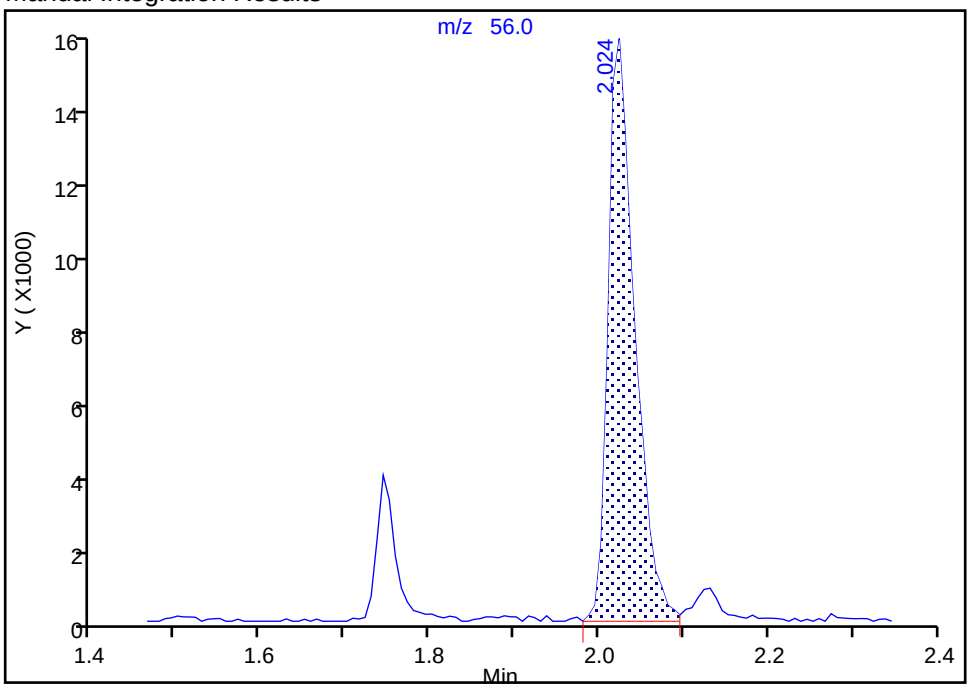
Processing Integration Results

RT: 1.74
Area: 5857
Amount: 14.257720
Amount Units: ug/l



Manual Integration Results

RT: 2.02
Area: 34062
Amount: 82.917270
Amount Units: ug/l



Reviewer: parekhv, 22-Mar-2018 16:11:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-505151/4

Matrix: Solid | Lab File ID: T04908.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/22/2018 07:59

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 505151 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	21.2		1.0	0.34
107-06-2	1,2-Dichloroethane	19.6		1.0	0.25
106-46-7	1,4-Dichlorobenzene	23.8		1.0	0.33
78-93-3	2-Butanone (MEK)	104		5.0	2.2
71-43-2	Benzene	22.9		1.0	0.19
56-23-5	Carbon tetrachloride	20.3		1.0	0.33
108-90-7	Chlorobenzene	23.0		1.0	0.24
67-66-3	Chloroform	20.6		1.0	0.22
127-18-4	Tetrachloroethene	23.6		1.0	0.36
79-01-6	Trichloroethene	21.0		1.0	0.22
75-01-4	Vinyl chloride	21.7		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
1868-53-7	Dibromofluoromethane (Surr)	93		72-131
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04908.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 22-Mar-2018 07:59:58 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Mar-2018 10:00:15 Calib Date: 13-Mar-2018 14:00:21
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180313-68698.b\T04581.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK023

First Level Reviewer: desais Date: 22-Mar-2018 09:57:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.913	0.913	0.000	84	14406	20.0	23.0	
2 Dichlorodifluoromethane	85	0.934	0.934	0.000	88	63426	20.0	16.7	
3 Chloromethane	50	1.038	1.039	-0.001	89	50375	20.0	21.1	
4 Vinyl chloride	62	1.096	1.096	0.000	84	45452	20.0	21.7	
5 Butadiene	54	1.117	1.117	0.000	96	43948	20.0	20.0	
6 Bromomethane	94	1.274	1.274	0.000	95	6204	20.0	14.0	
7 Chloroethane	64	1.332	1.337	-0.005	93	13711	20.0	13.6	
8 Dichlorofluoromethane	67	1.453	1.458	-0.005	91	71573	20.0	21.5	
9 Trichlorofluoromethane	101	1.484	1.489	-0.005	88	86505	20.0	17.7	
10 Pentane	72	1.531	1.537	-0.006	95	17969	40.0	7.36	
11 Ethanol	46	1.641	1.631	0.010	98	19933	800.0	610.8	
12 Ethyl ether	59	1.673	1.673	0.000	60	64012	20.0	22.2	
13 1,2-Dichloro-1,1,2-trifluo	117	1.673	1.673	0.000	79	54535	20.0	22.7	
14 2-Methyl-1,3-butadiene	53	1.678	1.678	0.000	86	61286	20.0	22.0	
15 Acrolein	56	1.746	1.746	0.000	97	10669	40.0	20.7	
16 1,1-Dichloroethene	96	1.804	1.804	0.000	88	59302	20.0	21.2	
17 1,1,2-Trichloro-1,2,2-trif	101	1.804	1.809	-0.005	65	58478	20.0	23.1	
18 Acetone	43	1.851	1.846	0.005	87	123218	100.0	90.8	
19 Iodomethane	142	1.898	1.898	0.000	95	26224	20.0	11.2	
21 Carbon disulfide	76	1.940	1.940	0.000	99	127330	20.0	18.0	
20 Isopropyl alcohol	45	1.956	1.951	0.005	62	54403	200.0	225.7	
24 Acetonitrile	40	2.029	2.024	0.005	85	70056	200.0	211.0	
22 3-Chloro-1-propene	76	2.035	2.035	0.000	90	43249	20.0	23.0	
23 Methyl acetate	43	2.056	2.056	0.000	99	322085	100.0	111.0	
25 Cyclopentene	67	2.087	2.092	-0.005	94	153302	20.0	22.1	
26 Methylene Chloride	84	2.113	2.119	-0.006	92	70575	20.0	20.8	
* 27 TBA-d9 (IS)	66	2.166	2.161	0.005	98	61676	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.218	2.213	0.005	99	89663	200.0	234.0	
29 Acrylonitrile	53	2.286	2.286	0.000	95	325869	200.0	230.1	
30 trans-1,2-Dichloroethene	96	2.302	2.302	0.000	77	65216	20.0	21.9	
31 Methyl tert-butyl ether	73	2.318	2.313	0.005	97	173340	20.0	22.1	
32 Hexane	57	2.501	2.507	-0.006	93	110331	20.0	23.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	2.606	2.606	0.000	94	129048	20.0	20.6	
34 Vinyl acetate	86	2.653	2.653	0.000	100	29589	40.0	51.7	
35 Isopropyl ether	45	2.674	2.674	0.000	89	257764	20.0	22.0	
36 2-Chloro-1,3-butadiene	88	2.674	2.674	0.000	64	63369	20.0	22.6	
37 Tert-butyl ethyl ether	59	2.957	2.958	-0.001	88	228639	20.0	21.0	
* 38 2-Butanone-d5	46	3.031	3.031	0.000	100	498306	250.0	250.0	
39 2,2-Dichloropropane	97	3.057	3.057	0.000	72	21394	20.0	22.3	
40 cis-1,2-Dichloroethene	96	3.057	3.057	0.000	86	76201	20.0	21.6	
41 2-Butanone (MEK)	43	3.083	3.078	0.005	99	202564	100.0	104.4	
42 Propionitrile	54	3.130	3.125	0.005	99	131260	200.0	227.9	
43 Ethyl acetate	70	3.141	3.141	0.000	99	16037	40.0	46.1	
44 Methyl acrylate	55	3.167	3.162	0.005	94	87943	20.0	21.6	
45 Methacrylonitrile	67	3.256	3.256	0.000	95	306482	200.0	228.1	
46 Chlorobromomethane	128	3.256	3.256	0.000	41	32381	20.0	22.9	
47 Tetrahydrofuran	72	3.309	3.309	0.000	87	19816	40.0	44.3	
48 Chloroform	83	3.330	3.330	0.000	92	105729	20.0	20.6	
$ 49 Dibromofluoromethane (Surr	113	3.471	3.471	0.000	97	127792	50.0	46.4	
50 1,1,1-Trichloroethane	97	3.487	3.487	0.000	84	86000	20.0	20.4	
51 Cyclohexane	84	3.534	3.534	0.000	95	96549	20.0	23.1	
52 Carbon tetrachloride	117	3.639	3.634	0.005	68	63167	20.0	20.3	
53 1,1-Dichloropropene	75	3.639	3.639	0.000	91	86086	20.0	22.4	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.770	3.770	0.000	85	140786	50.0	44.9	
54 Isobutyl alcohol	43	3.796	3.791	0.005	38	92108	500.0	599.5	a
56 Benzene	78	3.828	3.823	0.005	98	259756	20.0	22.9	
57 1,2-Dichloroethane	62	3.844	3.844	0.000	64	85580	20.0	19.6	
58 Isooctane	57	3.922	3.922	0.000	99	259666	20.0	23.3	
59 Isopropyl acetate	61	3.938	3.933	0.005	94	31573	20.0	23.3	
60 Tert-amyl methyl ether	73	3.959	3.959	0.000	83	177980	20.0	21.9	
* 61 Fluorobenzene	96	4.100	4.101	-0.001	98	547857	50.0	50.0	
62 n-Heptane	43	4.111	4.111	0.000	48	109383	20.0	22.9	
63 n-Butanol	56	4.467	4.462	0.005	73	56845	500.0	601.7	
64 Trichloroethene	95	4.473	4.473	0.000	94	67075	20.0	21.0	
65 Ethyl acrylate	55	4.630	4.625	0.005	98	103737	20.0	19.9	
66 Methylcyclohexane	83	4.672	4.672	0.000	91	114374	20.0	23.7	
67 1,2-Dichloropropane	63	4.703	4.703	0.000	87	76799	20.0	21.6	
* 68 1,4-Dioxane-d8	96	4.829	4.824	0.005	26	43285	1000.0	1000.0	
69 Dibromomethane	93	4.829	4.829	0.000	96	38562	20.0	20.7	
71 Methyl methacrylate	100	4.882	4.882	0.000	96	35952	40.0	44.0	
70 1,4-Dioxane	88	4.887	4.882	0.005	31	18203	400.0	477.8	
72 n-Propyl acetate	43	4.966	4.966	0.000	99	120987	20.0	21.1	
73 Dichlorobromomethane	83	5.023	5.018	0.005	95	62851	20.0	19.1	
74 2-Nitropropane	41	5.291	5.291	0.000	95	27876	40.0	37.4	
75 2-Chloroethyl vinyl ether	63	5.406	5.406	0.000	95	53704	20.0	21.3	
76 Epichlorohydrin	57	5.458	5.453	0.005	98	196174	400.0	496.2	
77 cis-1,3-Dichloropropene	75	5.553	5.553	0.000	90	98926	20.0	23.6	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.773	0.000	97	389072	100.0	110.2	
$ 79 Toluene-d8 (Surr)	98	5.873	5.873	0.000	99	501301	50.0	50.3	
80 Toluene	91	5.956	5.957	-0.001	93	273134	20.0	23.5	
81 trans-1,3-Dichloropropene	75	6.266	6.266	0.000	97	82215	20.0	22.7	
82 Ethyl methacrylate	69	6.444	6.444	0.000	93	75868	20.0	23.9	
83 1,1,2-Trichloroethane	83	6.491	6.491	0.000	92	48681	20.0	23.9	
84 Tetrachloroethene	166	6.659	6.659	0.000	92	74876	20.0	23.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,3-Dichloropropane	76	6.711	6.706	0.005	97	101055	20.0	23.6	
86 2-Hexanone	43	6.885	6.885	-0.001	97	268883	100.0	106.9	
87 Chlorodibromomethane	129	7.005	7.005	0.000	97	44829	20.0	20.5	
88 n-Butyl acetate	43	7.110	7.110	0.000	99	120403	20.0	23.4	
89 Ethylene Dibromide	107	7.131	7.131	0.000	79	59793	20.0	23.0	
* 90 Chlorobenzene-d5	117	7.818	7.818	0.000	85	430968	50.0	50.0	
91 Chlorobenzene	112	7.860	7.860	0.000	95	177812	20.0	23.0	
92 1,1,1,2-Tetrachloroethane	131	8.001	8.001	0.000	91	53286	20.0	22.2	
93 Ethylbenzene	106	8.064	8.059	0.005	98	97579	20.0	23.7	
94 m-Xylene & p-Xylene	106	8.248	8.248	0.000	96	119577	20.0	23.9	
95 o-Xylene	106	8.840	8.840	0.000	94	115169	20.0	24.1	
96 Styrene	104	8.866	8.867	0.000	90	184130	20.0	24.3	
97 n-Butyl acrylate	73	8.924	8.919	0.005	96	46457	20.0	23.3	
98 Bromoform	173	9.102	9.097	0.005	98	27221	20.0	20.0	
99 Amyl acetate (mixed isomer	43	9.312	9.312	0.000	89	135319	20.0	22.1	
100 Isopropylbenzene	105	9.448	9.448	0.000	96	294904	20.0	23.9	
$ 101 4-Bromofluorobenzene	174	9.653	9.653	0.000	0	159981	50.0	49.4	
102 Bromobenzene	156	9.847	9.842	0.005	94	74391	20.0	22.5	
103 1,1,2,2-Tetrachloroethane	83	9.962	9.962	0.000	91	72026	20.0	23.7	
104 1,2,3-Trichloropropane	110	9.983	9.983	0.000	91	22530	20.0	22.8	
105 trans-1,4-Dichloro-2-buten	53	10.062	10.057	0.005	79	21959	20.0	21.9	
106 N-Propylbenzene	91	10.114	10.114	0.000	99	355705	20.0	24.0	
107 2-Chlorotoluene	91	10.193	10.193	0.000	96	202391	20.0	23.3	
108 4-Ethyltoluene	105	10.319	10.314	0.005	98	296000	20.0	23.9	
109 4-Chlorotoluene	91	10.382	10.382	0.000	98	198206	20.0	23.5	
110 1,3,5-Trimethylbenzene	105	10.434	10.434	0.000	93	233536	20.0	23.6	
111 Butyl Methacrylate	87	10.712	10.712	0.000	93	73732	20.0	21.9	
112 tert-Butylbenzene	119	10.953	10.948	0.005	92	210389	20.0	23.8	
118 1,2,4-Trimethylbenzene	105	11.037	11.037	0.000	97	240218	20.0	23.5	
113 sec-Butylbenzene	105	11.310	11.310	0.000	99	319706	20.0	24.5	
114 1,3-Dichlorobenzene	146	11.399	11.399	0.000	96	140136	20.0	23.3	
* 115 1,4-Dichlorobenzene-d4	152	11.509	11.504	0.005	95	233852	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.540	11.540	0.000	93	138441	20.0	23.8	
117 4-Isopropyltoluene	119	11.551	11.551	0.000	94	258918	20.0	24.6	
135 1,2,3-Trimethylbenzene	105	11.650	11.651	-0.001	99	238477	20.0	23.4	
119 Benzyl chloride	91	11.755	11.750	0.005	98	114222	20.0	23.0	
120 2,3-Dihydroindene	117	11.881	11.881	0.000	90	235901	20.0	24.1	
121 1,2-Dichlorobenzene	146	12.018	12.018	0.000	95	129819	20.0	23.6	
122 p-Diethylbenzene	119	12.065	12.065	0.000	93	143211	20.0	24.8	
123 n-Butylbenzene	92	12.091	12.091	0.000	97	138032	20.0	24.9	
124 1,2-Dibromo-3-Chloropropan	155	12.925	12.925	0.000	70	9905	20.0	21.3	
125 1,2,4,5-Tetramethylbenzene	119	12.940	12.940	0.000	97	224917	20.0	24.7	
126 1,3,5-Trichlorobenzene	180	13.145	13.145	0.000	97	97986	20.0	23.9	
127 1,2,4-Trichlorobenzene	180	13.737	13.737	0.000	93	85287	20.0	24.1	
128 Hexachlorobutadiene	225	13.921	13.921	0.000	77	37465	20.0	24.4	
129 Naphthalene	128	13.942	13.942	0.000	99	219644	20.0	25.5	
130 1,2,3-Trichlorobenzene	180	14.162	14.162	0.000	95	77009	20.0	24.5	
S 131 1,2-Dichloroethene, Total	100				0		40.0	43.5	
S 132 Xylenes, Total	100				0		40.0	48.1	
S 136 1,3-Dichloropropene, Total	1				0		40.0	46.3	
S 133 Total BTEX	1				0		100.0	118.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00252	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00074	Amount Added:	20.00	Units: uL	
ACROLEIN W_00074	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00006	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 10:00:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180322-69114.b\T04908.D

Injection Date: 22-Mar-2018 07:59:58 Instrument ID: CVOAMS15

Lims ID: LCSD

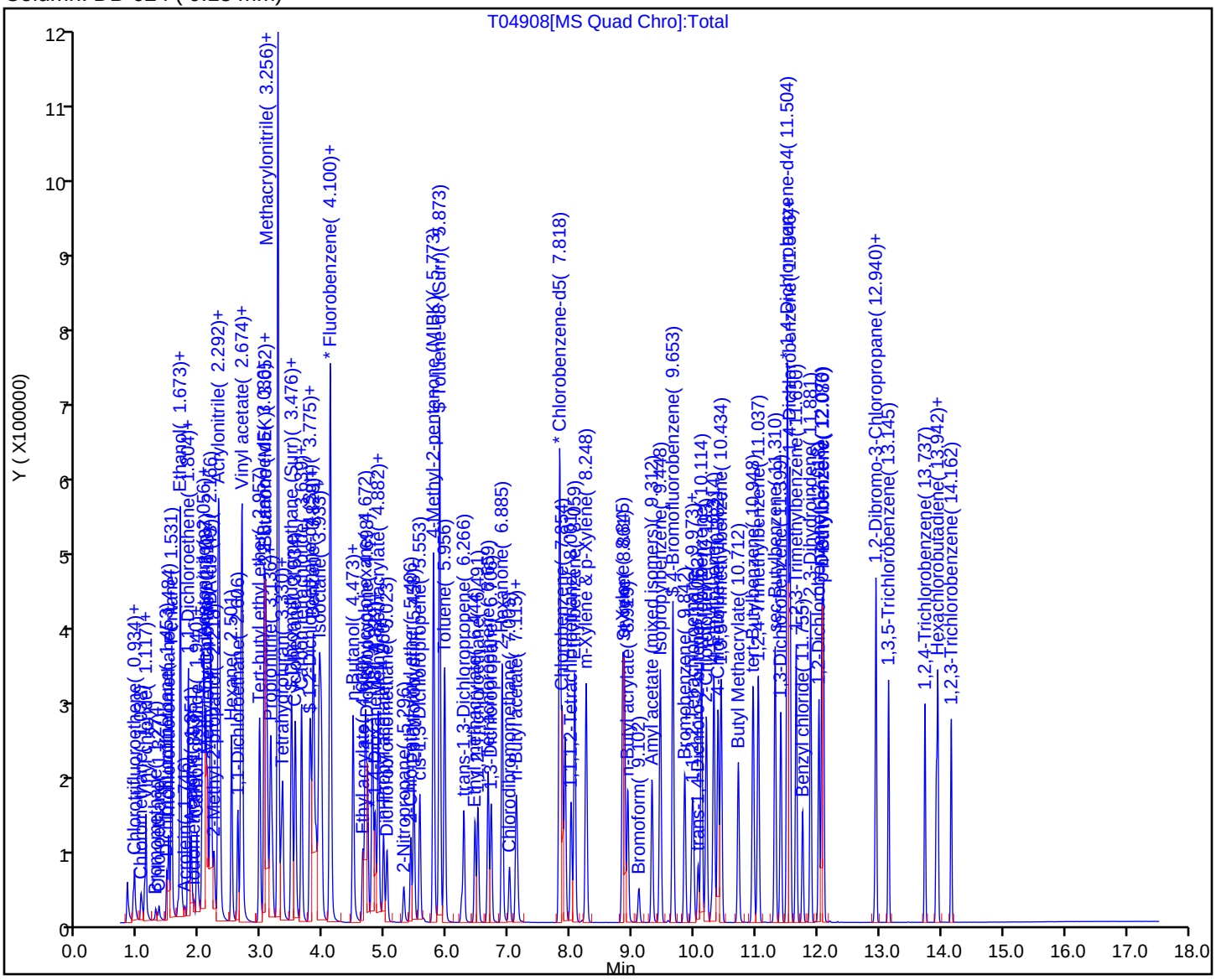
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 03/05/2018 22:08

Analysis Batch Number: 501512 End Date: 03/06/2018 08:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-501512/1		03/05/2018 22:08	1	P42051.D	Rtx-624 0.25(mm)
STD8 460-501512/3 IC		03/05/2018 23:04	1	P42053.D	Rtx-624 0.25(mm)
STD05 460-501512/4 IC		03/05/2018 23:30	1	P42054.D	Rtx-624 0.25(mm)
STD1 460-501512/5 IC		03/05/2018 23:55	1	P42055.D	Rtx-624 0.25(mm)
STD5 460-501512/6 IC		03/06/2018 00:28	1	P42056.D	Rtx-624 0.25(mm)
STD20 460-501512/7 ICIS		03/06/2018 00:54	1	P42057.D	Rtx-624 0.25(mm)
STD50 460-501512/8 IC		03/06/2018 01:19	1	P42058.D	Rtx-624 0.25(mm)
STD200 460-501512/9 IC		03/06/2018 01:45	1	P42059.D	Rtx-624 0.25(mm)
STD500 460-501512/10 IC		03/06/2018 02:10	1	P42060.D	Rtx-624 0.25(mm)
ICV 460-501512/14		03/06/2018 03:52	1	P42064.D	Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 04:34	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 05:00	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 05:25	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 06:16	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 06:41	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 07:07	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 07:32	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 07:57	1		Rtx-624 0.25(mm)
ZZZZZ		03/06/2018 08:23	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 03/21/2018 08:35

Analysis Batch Number: 504963 End Date: 03/21/2018 19:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-504963/1		03/21/2018 08:35	1	P42877.D	Rtx-624 0.25(mm)
CCVIS 460-504963/2		03/21/2018 08:50	1	P42878.D	Rtx-624 0.25(mm)
LCS 460-504963/3		03/21/2018 09:16	1	P42879.D	Rtx-624 0.25(mm)
LCSD 460-504963/4		03/21/2018 09:41	1	P42880.D	Rtx-624 0.25(mm)
MB 460-504963/7		03/21/2018 10:58	1	P42883.D	Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 11:23	1		Rtx-624 0.25(mm)
LB 460-504821/1-A		03/21/2018 11:48	10	P42885.D	Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 12:14	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 12:39	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 13:05	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 13:30	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 13:56	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 14:21	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 14:47	10		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 15:12	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 15:37	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 16:03	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 16:28	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 16:54	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 17:19	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 17:45	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 18:10	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 18:36	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 19:01	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 19:26	1		Rtx-624 0.25(mm)
ZZZZZ		03/21/2018 19:52	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 03/22/2018 06:41

Analysis Batch Number: 505144 End Date: 03/22/2018 18:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-505144/1		03/22/2018 06:41	1	P42906.D	Rtx-624 0.25(mm)
CCVIS 460-505144/2		03/22/2018 07:07	1	P42907.D	Rtx-624 0.25(mm)
LCS 460-505144/3		03/22/2018 07:36	1	P42908.D	Rtx-624 0.25(mm)
LCSD 460-505144/4		03/22/2018 08:01	1	P42909.D	Rtx-624 0.25(mm)
MB 460-505144/7		03/22/2018 09:18	1	P42912.D	Rtx-624 0.25(mm)
460-152136-3		03/22/2018 09:43	1	P42913.D	Rtx-624 0.25(mm)
460-152136-1		03/22/2018 10:08	1	P42914.D	Rtx-624 0.25(mm)
ZZZZZ		03/22/2018 10:34	1		Rtx-624 0.25(mm)
ZZZZZ		03/22/2018 10:59	1		Rtx-624 0.25(mm)
ZZZZZ		03/22/2018 11:25	1		Rtx-624 0.25(mm)
ZZZZZ		03/22/2018 18:32	10		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 03/13/2018 08:43

Analysis Batch Number: 503116 End Date: 03/13/2018 14:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-503116/1		03/13/2018 08:43	1	T04569.D	DB-624 0.18(mm)
STD8 460-503116/2 IC		03/13/2018 09:07	1	T04570.D	DB-624 0.18(mm)
STD5 460-503116/5 IC		03/13/2018 10:23	1	T04573.D	DB-624 0.18(mm)
STD20 460-503116/6 ICIS		03/13/2018 10:48	1	T04574.D	DB-624 0.18(mm)
STD50 460-503116/7 IC		03/13/2018 11:14	1	T04575.D	DB-624 0.18(mm)
STD200 460-503116/8 IC		03/13/2018 11:39	1	T04576.D	DB-624 0.18(mm)
STD500 460-503116/9 IC		03/13/2018 12:05	1	T04577.D	DB-624 0.18(mm)
STD1 460-503116/13 IC		03/13/2018 14:00	1	T04581.D	DB-624 0.18(mm)
ICV 460-503116/14		03/13/2018 14:42	1	T04582.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 03/22/2018 06:41

Analysis Batch Number: 505151 End Date: 03/22/2018 18:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-505151/1		03/22/2018 06:41	1	T04905.D	DB-624 0.18(mm)
CCVIS 460-505151/2		03/22/2018 07:07	1	T04906.D	DB-624 0.18(mm)
LCS 460-505151/3		03/22/2018 07:34	1	T04907.D	DB-624 0.18(mm)
LCSD 460-505151/4		03/22/2018 07:59	1	T04908.D	DB-624 0.18(mm)
MB 460-505151/7		03/22/2018 09:16	1	T04911.D	DB-624 0.18(mm)
460-152136-2		03/22/2018 10:07	10	T04913.D	DB-624 0.18(mm)
ZZZZZ		03/22/2018 11:49	10		DB-624 0.18(mm)
ZZZZZ		03/22/2018 12:14	10		DB-624 0.18(mm)
ZZZZZ		03/22/2018 12:39	10		DB-624 0.18(mm)
ZZZZZ		03/22/2018 13:05	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 13:30	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 13:56	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 14:21	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 14:47	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 15:13	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 15:38	1		DB-624 0.18(mm)
ZZZZZ		03/22/2018 18:11	50		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 03/09/2018 21:58

Analysis Batch Number: 502604 End Date: 03/10/2018 02:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-502604/1		03/09/2018 21:58	1	K80593.D	Rtx-624 0.25(mm)
STD1 460-502604/2 IC		03/09/2018 22:30	1	K80594.D	Rtx-624 0.25(mm)
STD5 460-502604/3 IC		03/09/2018 22:54	1	K80595.D	Rtx-624 0.25(mm)
STD20 460-502604/4 ICIS		03/09/2018 23:18	1	K80596.D	Rtx-624 0.25(mm)
STD50 460-502604/5 IC		03/09/2018 23:43	1	K80597.D	Rtx-624 0.25(mm)
STD200 460-502604/6 IC		03/10/2018 00:07	1	K80598.D	Rtx-624 0.25(mm)
STD500 460-502604/7 IC		03/10/2018 00:31	1	K80599.D	Rtx-624 0.25(mm)
ICV 460-502604/13		03/10/2018 02:57	1	K80605.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 03/20/2018 08:50

Analysis Batch Number: 504711 End Date: 03/20/2018 19:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-504711/1		03/20/2018 08:50	1	K80980.D	Rtx-624 0.25(mm)
CCVIS 460-504711/3		03/20/2018 10:04	1	K80982.D	Rtx-624 0.25(mm)
LCS 460-504711/4		03/20/2018 10:28	1	K80983.D	Rtx-624 0.25(mm)
LCSD 460-504711/5		03/20/2018 10:52	1	K80984.D	Rtx-624 0.25(mm)
MB 460-504711/8		03/20/2018 12:07	1	K80987.D	Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 12:32	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 13:20	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 13:44	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 14:09	1		Rtx-624 0.25(mm)
460-152136-2		03/20/2018 14:33	1	K80993.D	Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 14:57	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 15:20	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 15:45	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 16:09	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 16:34	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 16:57	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 17:21	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 17:45	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 18:09	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 18:34	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 18:58	1		Rtx-624 0.25(mm)
ZZZZZ		03/20/2018 19:22	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504287 Batch Start Date: 03/17/18 09:39 Batch Analyst: Morrison, Derek

Batch Method: 5035 Batch End Date: 03/17/18 09:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-152136-C-2	Ash Pit	5035, 8260C	T	+030.868 g	34.48 g	3.612 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504821 Batch Start Date: 03/20/18 13:56 Batch Analyst: Santos, Omar T

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LeachatepH	AnalysisComment		
LB 460-504821/1		1311, 8260C			500 mL	4.92			
460-152136-G-2	Ash Pit	1311, 8260C	P	25.02 g	500 mL	6.15	14		

Batch Notes	
Balance ID	60
First End time	8:00 am 03/21/18
Filter Paper ID	400145
Minumum Temperature	24.6 Celsius
pH Meter ID	H
Room Temperature Thermometer ID	R66589
First Start time	2:00 pm 03/20/18
TCLP Fluid 1 ID	ZF1031418
TCLP Fluid pH	4.92 SU
Thermometer ID	7958
Tumbler Rotations per Minute	30
Uncorrected Maximum Temperature	25 Celsius
Uncorrected Minimum Temperature	22.3 Celsius

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504963 Batch Start Date: 03/21/18 08:35 Batch Analyst: Desai, Saurab

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00121	8260MIX1COMB 00074	8260SURR250 00169	ACROLEIN W 00074
BFB 460-504963/1		8260C		5 mL	5 mL				
CCVIS 460-504963/2		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-504963/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCSD 460-504963/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-504963/7		8260C		5 mL	5 mL	1 uL		1 uL	
LB 460-504821/1-A		8260C		5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00016	GASES Li 00252				
BFB 460-504963/1		8260C		1 uL					
CCVIS 460-504963/2		8260C			20 uL				
LCS 460-504963/3		8260C			20 uL				
LCSD 460-504963/4		8260C			20 uL				
MB 460-504963/7		8260C							
LB 460-504821/1-A		8260C							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505144 Batch Start Date: 03/22/18 06:41 Batch Analyst: Desai, Saurab

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00121	8260MIX1COMB 00074	8260SURR250 00169	ACROLEIN W 00074
BFB 460-505144/1		8260C		5 mL	5 mL				
CCVIS 460-505144/2		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-505144/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCSD 460-505144/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-505144/7		8260C		5 mL	5 mL	1 uL		1 uL	
460-152136-A-3	Trip Blank	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-152136-B-1	Recharge Basin	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00016	GASES Li 00252				
BFB 460-505144/1		8260C		1 uL					
CCVIS 460-505144/2		8260C			20 uL				
LCS 460-505144/3		8260C			20 uL				
LCSD 460-505144/4		8260C			20 uL				
MB 460-505144/7		8260C							
460-152136-A-3	Trip Blank	8260C	T						
460-152136-B-1	Recharge Basin	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505151 Batch Start Date: 03/22/18 06:41 Batch Analyst: Desai, Saurab

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00074	ACROLEIN W 00074	BFB 00016	GASES Li 00252
BFB 460-505151/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-505151/2		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-505151/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-505151/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-505151/7		8260C		5 mL	5 mL				
460-152136-G-2-A	Ash Pit	8260C	P	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	SURR50 00003	VOA6IS ONLY 00006				
BFB 460-505151/1		8260C							
CCVIS 460-505151/2		8260C		5 uL	5 uL				
LCS 460-505151/3		8260C		5 uL	5 uL				
LCSD 460-505151/4		8260C		5 uL	5 uL				
MB 460-505151/7		8260C		5 uL	5 uL				
460-152136-G-2-A	Ash Pit	8260C	P	5 uL	5 uL				

Batch Notes	

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D

Semivolatile Organic Compounds (GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPHL	#
Ash Pit	460-152136-2	68		73		66		75		87		78	
	MB 460-505109/1-A	86		85		82		81		90		85	
	LCS 460-505109/2-A	91		90		87		88		101		91	
	LCS 460-505109/3-A	94	X	92	X	90		89		102		94	
	460-152022-E-1-B MS	82		83		79		82		95		86	
	460-152022-E-1-C MSD	84		84		81		85		100		90	

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	25-92
PHL = Phenol-d5 (Surr)	32-91
NBZ = Nitrobenzene-d5 (Surr)	37-94
FBP = 2-Fluorobiphenyl	38-95
TBP = 2,4,6-Tribromophenol (Surr)	10-103
TPHL = Terphenyl-d14 (Surr)	24-109

Column to be used to flag recovery values

FORM II 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
Recharge Basin	460-152136-1	52	34	102	91	111	114
	MB 460-504508/1-A	45	29	95	92	105	108
	LCS 460-504508/2-A	40	26	88	85	105	101
	LCS 460-504508/4-A	43	27	93	87	100	109
	LCSD 460-504508/3-A	38	25	90	87	108	103
	LCSD 460-504508/5-A	43	28	91	82	99	113

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	25-58
PHL = Phenol-d5 (Surr)	14-39
NBZ = Nitrobenzene-d5 (Surr)	51-108
FBP = 2-Fluorobiphenyl	45-107
TBP = 2,4,6-Tribromophenol (Surr)	26-139
TPHL = Terphenyl-d14 (Surr)	40-148

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00824.D

Lab ID: LCS 460-504508/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	80.0	65.3	82	54-108	
1,2,4,5-Tetrachlorobenzene	80.0	62.2	78	46-105	
1,4-Dioxane	80.0	31.3	39	25-66	
2,2'-oxybis[1-chloropropane]	80.0	66.2	83	50-108	
2,3,4,6-Tetrachlorophenol	80.0	86.6	108	57-122	
2,4,5-Trichlorophenol	80.0	77.1	96	59-117	
2,4,6-Trichlorophenol	80.0	74.6	93	62-120	
2,4-Dichlorophenol	80.0	71.1	89	62-102	
2,4-Dimethylphenol	80.0	64.3	80	61-95	
2,4-Dinitrophenol	160	175	109	45-125	
2,4-Dinitrotoluene	80.0	91.9	115	70-123	
2,6-Dinitrotoluene	80.0	85.4	107	68-121	
2-Chloronaphthalene	80.0	64.6	81	54-105	
2-Chlorophenol	80.0	58.2	73	54-92	
2-Methylnaphthalene	80.0	68.0	85	47-104	
2-Methylphenol	80.0	49.3	62	43-80	
2-Nitroaniline	80.0	75.6	94	46-124	
2-Nitrophenol	80.0	72.4	91	58-109	
3 & 4 Methylphenol	80.0	43.8	55	34-77	
3,3'-Dichlorobenzidine	80.0	84.8	106	68-123	
3-Nitroaniline	80.0	65.2	82	60-117	
4,6-Dinitro-2-methylphenol	160	193	120	59-132	
4-Bromophenyl phenyl ether	80.0	73.8	92	57-126	
4-Chloro-3-methylphenol	80.0	69.5	87	58-98	
4-Chloroaniline	80.0	61.9	77	51-108	
4-Chlorophenyl phenyl ether	80.0	77.7	97	60-114	
4-Methylphenol	80.0	44.2	55	34-78	
4-Nitroaniline	80.0	77.7	97	48-135	
4-Nitrophenol	160	51.5	32	11-47	
Acenaphthene	80.0	69.2	86	58-107	
Acenaphthylene	80.0	68.5	86	61-106	
Acetophenone	80.0	74.6	93	54-115	
Anthracene	80.0	78.8	99	70-118	
Benzo[a]anthracene	80.0	83.9	105	73-119	
Benzo[a]pyrene	80.0	90.1	113	76-125	
Benzo[b]fluoranthene	80.0	87.2	109	78-123	
Benzo[g,h,i]perylene	80.0	87.3	109	63-133	
Benzo[k]fluoranthene	80.0	87.1	109	71-126	
Bis(2-chloroethoxy)methane	80.0	72.6	91	67-104	
Bis(2-chloroethyl)ether	80.0	70.7	88	63-106	
Bis(2-ethylhexyl) phthalate	80.0	105	131	63-135	
Butyl benzyl phthalate	80.0	94.0	117	66-129	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00824.D

Lab ID: LCS 460-504508/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbazole	80.0	85.8	107	68-121	
Chrysene	80.0	83.3	104	73-121	
Dibenz(a,h)anthracene	80.0	92.3	115	59-136	
Dibenzofuran	80.0	71.7	90	67-108	
Diethyl phthalate	80.0	91.6	115	61-129	
Dimethyl phthalate	80.0	84.4	106	65-121	
Di-n-butyl phthalate	80.0	95.2	119	64-130	
Di-n-octyl phthalate	80.0	102	127	64-131	
Fluoranthene	80.0	91.0	114	66-123	
Fluorene	80.0	75.5	94	67-112	
Hexachlorobenzene	80.0	75.6	94	63-125	
Hexachlorobutadiene	80.0	53.0	66	34-99	
Hexachlorocyclopentadiene	80.0	57.7	72	18-99	
Hexachloroethane	80.0	44.5	56	39-92	
Indeno[1,2,3-cd]pyrene	80.0	95.6	119	57-142	
Isophorone	80.0	77.5	97	55-105	
Naphthalene	80.0	61.5	77	51-98	
Nitrobenzene	80.0	74.7	93	56-106	
N-Nitrosodi-n-propylamine	80.0	75.6	95	48-118	
N-Nitrosodiphenylamine	80.0	74.8	93	69-118	
Pentachlorophenol	160	165	103	54-120	
Phenanthrene	80.0	78.4	98	70-117	
Phenol	80.0	22.6	28	16-43	
Pyrene	80.0	80.2	100	63-129	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00826.D

Lab ID: LCS 460-504508/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Atrazine	160	212	132	38-146	
Benzaldehyde	160	144	90	46-111	
Caprolactam	160	43.9	27	10-43	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077647.d

Lab ID: LCS 460-505109/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3.33	3.11	93	64-108	
1,2,4,5-Tetrachlorobenzene	3.33	3.12	94	57-112	
1,4-Dioxane	3.33	2.12	64	27-70	
2,2'-oxybis[1-chloropropane]	3.33	2.97	89	39-122	
2,3,4,6-Tetrachlorophenol	3.33	3.32	100	60-114	
2,4,5-Trichlorophenol	3.33	3.07	92	60-106	
2,4,6-Trichlorophenol	3.33	3.37	101	62-110	
2,4-Dichlorophenol	3.33	3.29	99	61-103	
2,4-Dimethylphenol	3.33	3.13	94	63-101	
2,4-Dinitrophenol	6.67	7.32	110	56-122	
2,4-Dinitrotoluene	3.33	3.62	109	66-122	
2,6-Dinitrotoluene	3.33	3.50	105	70-114	
2-Chloronaphthalene	3.33	3.07	92	63-107	
2-Chlorophenol	3.33	3.09	93	62-97	
2-Methylnaphthalene	3.33	3.07	92	65-104	
2-Methylphenol	3.33	3.07	92	61-103	
2-Nitroaniline	3.33	3.25	97	57-114	
2-Nitrophenol	3.33	3.40	102	65-104	
3 & 4 Methylphenol	3.33	3.09	93	61-105	
3,3'-Dichlorobenzidine	3.33	1.40	42	18-88	
3-Nitroaniline	3.33	2.13	64	30-94	
4,6-Dinitro-2-methylphenol	6.67	7.29	109	67-120	
4-Bromophenyl phenyl ether	3.33	3.31	99	59-122	
4-Chloro-3-methylphenol	3.33	3.17	95	62-111	
4-Chloroaniline	3.33	1.41	42	18-94	
4-Chlorophenyl phenyl ether	3.33	3.16	95	66-110	
4-Methylphenol	3.33	3.09	93	61-105	
4-Nitroaniline	3.33	2.85	85	49-118	
4-Nitrophenol	6.67	6.59	99	43-141	
Acenaphthene	3.33	2.96	89	62-108	
Acenaphthylene	3.33	3.01	90	67-107	
Acetophenone	3.33	2.97	89	60-109	
Anthracene	3.33	3.23	97	69-111	
Benzo[a]anthracene	3.33	3.13	94	68-110	
Benzo[a]pyrene	3.33	3.39	102	72-115	
Benzo[b]fluoranthene	3.33	3.39	102	69-119	
Benzo[g,h,i]perylene	3.33	3.26	98	54-128	
Benzo[k]fluoranthene	3.33	3.38	101	70-115	
Bis(2-chloroethoxy)methane	3.33	3.07	92	65-106	
Bis(2-chloroethyl)ether	3.33	2.99	90	64-105	
Bis(2-ethylhexyl) phthalate	3.33	3.29	99	63-125	
Butyl benzyl phthalate	3.33	3.50	105	65-125	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077647.d

Lab ID: LCS 460-505109/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Carbazole	3.33	3.05	92	66-115	
Chrysene	3.33	3.21	96	70-111	
Dibenz(a,h)anthracene	3.33	3.50	105	60-130	
Dibenzofuran	3.33	3.08	92	67-107	
Diethyl phthalate	3.33	3.10	93	66-117	
Dimethyl phthalate	3.33	3.09	93	68-112	
Di-n-butyl phthalate	3.33	3.12	94	67-119	
Di-n-octyl phthalate	3.33	3.47	104	57-138	
Fluoranthene	3.33	3.08	92	64-114	
Fluorene	3.33	3.12	94	66-110	
Hexachlorobenzene	3.33	3.25	98	57-128	
Hexachlorobutadiene	3.33	3.13	94	60-108	
Hexachlorocyclopentadiene	3.33	3.00	90	50-129	
Hexachloroethane	3.33	2.91	87	63-99	
Indeno[1,2,3-cd]pyrene	3.33	3.44	103	53-137	
Isophorone	3.33	3.00	90	68-111	
Naphthalene	3.33	3.02	91	65-102	
Nitrobenzene	3.33	3.12	94	66-108	
N-Nitrosodi-n-propylamine	3.33	2.95	89	63-117	
N-Nitrosodiphenylamine	3.33	3.25	97	65-114	
Pentachlorophenol	6.67	7.41	111	56-116	
Phenanthrene	3.33	3.15	94	68-111	
Phenol	3.33	3.15	95	58-103	
Pyrene	3.33	3.41	102	64-121	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077648.d

Lab ID: LCS 460-505109/3-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6.67	7.34	110	62-137	
Benzaldehyde	6.67	6.27	94	52-113	
Caprolactam	6.67	7.53	113	53-148	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00825.D

Lab ID: LCSD 460-504508/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	80.0	65.5	82	0	30	54-108	
1,2,4,5-Tetrachlorobenzene	80.0	63.1	79	1	30	46-105	
1,4-Dioxane	80.0	28.7	36	9	30	25-66	
2,2'-oxybis[1-chloropropane]	80.0	63.5	79	4	30	50-108	
2,3,4,6-Tetrachlorophenol	80.0	87.9	110	1	30	57-122	
2,4,5-Trichlorophenol	80.0	79.0	99	2	30	59-117	
2,4,6-Trichlorophenol	80.0	76.0	95	2	30	62-120	
2,4-Dichlorophenol	80.0	69.9	87	2	30	62-102	
2,4-Dimethylphenol	80.0	65.3	82	1	30	61-95	
2,4-Dinitrophenol	160	175	109	0	30	45-125	
2,4-Dinitrotoluene	80.0	92.3	115	0	30	70-123	
2,6-Dinitrotoluene	80.0	83.9	105	2	30	68-121	
2-Chloronaphthalene	80.0	65.1	81	1	30	54-105	
2-Chlorophenol	80.0	56.8	71	2	30	54-92	
2-Methylnaphthalene	80.0	65.8	82	3	30	47-104	
2-Methylphenol	80.0	48.0	60	3	30	43-80	
2-Nitroaniline	80.0	75.5	94	0	30	46-124	
2-Nitrophenol	80.0	73.5	92	1	30	58-109	
3 & 4 Methylphenol	80.0	41.2	52	6	30	34-77	
3,3'-Dichlorobenzidine	80.0	80.7	101	5	30	68-123	
3-Nitroaniline	80.0	62.9	79	4	30	60-117	
4,6-Dinitro-2-methylphenol	160	191	119	1	30	59-132	
4-Bromophenyl phenyl ether	80.0	74.6	93	1	30	57-126	
4-Chloro-3-methylphenol	80.0	70.1	88	1	30	58-98	
4-Chloroaniline	80.0	59.3	74	4	30	51-108	
4-Chlorophenyl phenyl ether	80.0	77.6	97	0	30	60-114	
4-Methylphenol	80.0	41.4	52	6	30	34-78	
4-Nitroaniline	80.0	75.6	94	3	30	48-135	
4-Nitrophenol	160	48.4	30	6	30	11-47	
Acenaphthene	80.0	68.7	86	1	30	58-107	
Acenaphthylene	80.0	68.7	86	0	30	61-106	
Acetophenone	80.0	70.9	89	5	30	54-115	
Anthracene	80.0	78.0	97	1	30	70-118	
Benzo[a]anthracene	80.0	83.4	104	1	30	73-119	
Benzo[a]pyrene	80.0	87.7	110	3	30	76-125	
Benzo[b]fluoranthene	80.0	87.5	109	0	30	78-123	
Benzo[g,h,i]perylene	80.0	79.4	99	10	30	63-133	
Benzo[k]fluoranthene	80.0	87.4	109	0	30	71-126	
Bis(2-chloroethoxy)methane	80.0	72.4	91	0	30	67-104	
Bis(2-chloroethyl)ether	80.0	67.4	84	5	30	63-106	
Bis(2-ethylhexyl) phthalate	80.0	102	128	3	30	63-135	
Butyl benzyl phthalate	80.0	93.6	117	0	30	66-129	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00825.D

Lab ID: LCSD 460-504508/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbazole	80.0	84.0	105	2	30	68-121	
Chrysene	80.0	82.8	103	1	30	73-121	
Dibenz(a,h)anthracene	80.0	86.1	108	7	30	59-136	
Dibenzofuran	80.0	71.9	90	0	30	67-108	
Diethyl phthalate	80.0	91.9	115	0	30	61-129	
Dimethyl phthalate	80.0	85.5	107	1	30	65-121	
Di-n-butyl phthalate	80.0	93.3	117	2	30	64-130	
Di-n-octyl phthalate	80.0	104	129	2	30	64-131	
Fluoranthene	80.0	87.5	109	4	30	66-123	
Fluorene	80.0	76.9	96	2	30	67-112	
Hexachlorobenzene	80.0	73.6	92	3	30	63-125	
Hexachlorobutadiene	80.0	51.3	64	3	30	34-99	
Hexachlorocyclopentadiene	80.0	60.1	75	4	30	18-99	
Hexachloroethane	80.0	41.3	52	8	30	39-92	
Indeno[1,2,3-cd]pyrene	80.0	85.2	107	11	30	57-142	
Isophorone	80.0	77.8	97	0	30	55-105	
Naphthalene	80.0	60.7	76	1	30	51-98	
Nitrobenzene	80.0	70.8	89	5	30	56-106	
N-Nitrosodi-n-propylamine	80.0	74.8	94	1	30	48-118	
N-Nitrosodiphenylamine	80.0	74.4	93	0	30	69-118	
Pentachlorophenol	160	160	100	3	30	54-120	
Phenanthrene	80.0	76.8	96	2	30	70-117	
Phenol	80.0	21.5	27	5	30	16-43	
Pyrene	80.0	79.7	100	1	30	63-129	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00827.D

Lab ID: LCSD 460-504508/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Atrazine	160	193	121	9	30	38-146	E
Benzaldehyde	160	136	85	6	30	46-111	
Caprolactam	160	44.2	28	1	30	10-43	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077651.d

Lab ID: 460-152022-E-1-B MS Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3.61	0.0048 U	3.08	85	64-108	
1,2,4,5-Tetrachlorobenzene	3.61	0.0047 U	3.05	85	57-112	
1,4-Dioxane	3.61	0.0099 U	2.06	57	27-70	
2,2'-oxybis[1-chloropropane]	3.61	0.0065 U	2.90	81	39-122	
2,3,4,6-Tetrachlorophenol	3.61	0.024 U	3.42	95	60-114	
2,4,5-Trichlorophenol	3.61	0.012 U	3.08	86	60-106	
2,4,6-Trichlorophenol	3.61	0.018 U	3.43	95	62-110	
2,4-Dichlorophenol	3.61	0.0076 U	3.26	91	61-103	
2,4-Dimethylphenol	3.61	0.016 U	3.10	86	63-101	
2,4-Dinitrophenol	7.21	0.18 U	7.46	104	56-122	
2,4-Dinitrotoluene	3.61	0.018 U	3.66	101	66-122	
2,6-Dinitrotoluene	3.61	0.012 U	3.54	98	70-114	
2-Chloronaphthalene	3.61	0.017 U	3.04	84	63-107	
2-Chlorophenol	3.61	0.0050 U	3.04	84	62-97	
2-Methylnaphthalene	3.61	0.0045 U	3.06	85	65-104	
2-Methylphenol	3.61	0.0058 U	3.05	85	61-103	
2-Nitroaniline	3.61	0.013 U	3.33	92	57-114	
2-Nitrophenol	3.61	0.011 U	3.34	93	65-104	
3 & 4 Methylphenol	3.61	0.0061 U	3.04	84	61-105	
3,3'-Dichlorobenzidine	3.61	0.054 U	2.38	66	18-88	
3-Nitroaniline	3.61	0.019 U	2.62	73	30-94	
4,6-Dinitro-2-methylphenol	7.21	0.058 U	7.43	103	67-120	
4-Bromophenyl phenyl ether	3.61	0.0046 U	3.32	92	59-122	
4-Chloro-3-methylphenol	3.61	0.0059 U	3.24	90	62-111	
4-Chloroaniline	3.61	0.025 U	1.92	53	18-94	
4-Chlorophenyl phenyl ether	3.61	0.0056 U	3.17	88	66-110	
4-Methylphenol	3.61	0.0061 U	3.04	84	61-105	
4-Nitroaniline	3.61	0.013 U	3.12	87	49-118	
4-Nitrophenol	7.21	0.058 U	6.57	91	43-141	
Acenaphthene	3.61	0.026 U	3.00	83	62-108	
Acenaphthylene	3.61	0.0037 U	3.08	85	67-107	
Acetophenone	3.61	0.0058 U	2.91	81	60-109	
Anthracene	3.61	0.015 J	3.22	89	69-111	
Atrazine	7.21	0.0090 U	6.96	97	62-137	
Benzaldehyde	7.21	0.016 U	5.44	75	52-113	
Benzo[a]anthracene	3.61	0.026 J	3.23	89	68-110	
Benzo[a]pyrene	3.61	0.016 J	3.38	93	72-115	
Benzo[b]fluoranthene	3.61	0.025 J	3.36	93	69-119	
Benzo[g,h,i]perylene	3.61	0.012 J	3.46	96	54-128	
Benzo[k]fluoranthene	3.61	0.0070 U	3.24	90	70-115	
Bis(2-chloroethoxy)methane	3.61	0.012 U	2.97	82	65-106	
Bis(2-chloroethyl)ether	3.61	0.0043 U	2.90	81	64-105	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077651.d

Lab ID: 460-152022-E-1-B MS Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Bis(2-ethylhexyl) phthalate	3.61	0.36	3.44	85	63-125	
Butyl benzyl phthalate	3.61	0.017 U	3.57	99	65-125	
Caprolactam	7.21	0.021 U	7.29	101	53-148	
Carbazole	3.61	0.0042 U	3.16	88	66-115	
Chrysene	3.61	0.023 J	3.31	91	70-111	
Dibenz(a,h)anthracene	3.61	0.015 U	3.67	102	60-130	
Dibenzofuran	3.61	0.014 J	3.15	87	67-107	
Diethyl phthalate	3.61	0.0052 U	3.09	86	66-117	
Dimethyl phthalate	3.61	0.0043 U	3.09	86	68-112	
Di-n-butyl phthalate	3.61	0.063 U	3.13	87	67-119	
Di-n-octyl phthalate	3.61	0.019 U	3.34	93	57-138	
Fluoranthene	3.61	0.064 J	3.25	88	64-114	
Fluorene	3.61	0.020 J	3.15	87	66-110	
Hexachlorobenzene	3.61	0.0052 U	3.30	92	57-128	
Hexachlorobutadiene	3.61	0.0076 U	3.04	84	60-108	
Hexachlorocyclopentadiene	3.61	0.031 U	2.84	79	50-129	
Hexachloroethane	3.61	0.0055 U	2.80	78	63-99	
Indeno[1,2,3-cd]pyrene	3.61	0.014 U	3.67	102	53-137	
Isophorone	3.61	0.0094 U	2.96	82	68-111	
Naphthalene	3.61	0.015 J	2.96	82	65-102	
Nitrobenzene	3.61	0.0086 U	3.07	85	66-108	
N-Nitrosodi-n-propylamine	3.61	0.0057 U	2.91	81	63-117	
N-Nitrosodiphenylamine	3.61	0.0069 U	3.25	90	65-114	
Pentachlorophenol	7.21	0.073 U	7.43	103	56-116	
Phenanthrene	3.61	0.073 J	3.34	91	68-111	
Phenol	3.61	0.0053 U	3.10	86	58-103	
Pyrene	3.61	0.061 J	3.55	97	64-121	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077652.d

Lab ID: 460-152022-E-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	3.61	3.22	89	5	30	64-108	
1,2,4,5-Tetrachlorobenzene	3.61	3.19	88	4	30	57-112	
1,4-Dioxane	3.61	2.10	58	2	30	27-70	
2,2'-oxybis[1-chloropropane]	3.61	2.97	82	2	30	39-122	
2,3,4,6-Tetrachlorophenol	3.61	3.56	99	4	30	60-114	
2,4,5-Trichlorophenol	3.61	3.26	90	6	30	60-106	
2,4,6-Trichlorophenol	3.61	3.56	99	4	30	62-110	
2,4-Dichlorophenol	3.61	3.42	95	5	30	61-103	
2,4-Dimethylphenol	3.61	3.25	90	5	30	63-101	
2,4-Dinitrophenol	7.21	7.78	108	4	30	56-122	
2,4-Dinitrotoluene	3.61	3.81	106	4	30	66-122	
2,6-Dinitrotoluene	3.61	3.76	104	6	30	70-114	
2-Chloronaphthalene	3.61	3.20	89	5	30	63-107	
2-Chlorophenol	3.61	3.12	86	2	30	62-97	
2-Methylnaphthalene	3.61	3.15	87	3	30	65-104	
2-Methylphenol	3.61	3.18	88	4	30	61-103	
2-Nitroaniline	3.61	3.45	96	4	30	57-114	
2-Nitrophenol	3.61	3.47	96	4	30	65-104	
3 & 4 Methylphenol	3.61	3.15	87	3	30	61-105	
3,3'-Dichlorobenzidine	3.61	2.57	71	8	30	18-88	
3-Nitroaniline	3.61	2.69	75	3	30	30-94	
4,6-Dinitro-2-methylphenol	7.21	7.84	109	5	30	67-120	
4-Bromophenyl phenyl ether	3.61	3.47	96	5	30	59-122	
4-Chloro-3-methylphenol	3.61	3.36	93	4	30	62-111	
4-Chloroaniline	3.61	2.09	58	9	30	18-94	
4-Chlorophenyl phenyl ether	3.61	3.30	92	4	30	66-110	
4-Methylphenol	3.61	3.15	87	3	30	61-105	
4-Nitroaniline	3.61	3.22	89	3	30	49-118	
4-Nitrophenol	7.21	6.83	95	4	30	43-141	
Acenaphthene	3.61	3.14	87	5	30	62-108	
Acenaphthylene	3.61	3.16	88	3	30	67-107	
Acetophenone	3.61	2.98	83	2	30	60-109	
Anthracene	3.61	3.32	92	3	30	69-111	
Atrazine	7.21	7.41	103	6	30	62-137	
Benzaldehyde	7.21	5.58	77	3	30	52-113	
Benzo[a]anthracene	3.61	3.35	92	4	30	68-110	
Benzo[a]pyrene	3.61	3.53	97	5	30	72-115	
Benzo[b]fluoranthene	3.61	3.54	97	5	30	69-119	
Benzo[g,h,i]perylene	3.61	3.63	100	5	30	54-128	
Benzo[k]fluoranthene	3.61	3.39	94	5	30	70-115	
Bis(2-chloroethoxy)methane	3.61	3.10	86	4	30	65-106	
Bis(2-chloroethyl)ether	3.61	2.97	82	2	30	64-105	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L2077652.d

Lab ID: 460-152022-E-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Bis(2-ethylhexyl) phthalate	3.61	4.01	101	15	30	63-125	
Butyl benzyl phthalate	3.61	3.75	104	5	30	65-125	
Caprolactam	7.21	7.47	104	2	30	53-148	
Carbazole	3.61	3.26	90	3	30	66-115	
Chrysene	3.61	3.43	95	4	30	70-111	
Dibenz(a,h)anthracene	3.61	3.87	107	5	30	60-130	
Dibenzofuran	3.61	3.26	90	3	30	67-107	
Diethyl phthalate	3.61	3.25	90	5	30	66-117	
Dimethyl phthalate	3.61	3.27	91	6	30	68-112	
Di-n-butyl phthalate	3.61	3.31	92	6	30	67-119	
Di-n-octyl phthalate	3.61	3.57	99	6	30	57-138	
Fluoranthene	3.61	3.34	91	3	30	64-114	
Fluorene	3.61	3.27	90	4	30	66-110	
Hexachlorobenzene	3.61	3.45	96	4	30	57-128	
Hexachlorobutadiene	3.61	3.18	88	4	30	60-108	
Hexachlorocyclopentadiene	3.61	3.00	83	5	30	50-129	
Hexachloroethane	3.61	2.85	79	2	30	63-99	
Indeno[1,2,3-cd]pyrene	3.61	3.95	109	7	30	53-137	
Isophorone	3.61	3.09	86	4	30	68-111	
Naphthalene	3.61	3.05	84	3	30	65-102	
Nitrobenzene	3.61	3.08	85	0	30	66-108	
N-Nitrosodi-n-propylamine	3.61	3.04	84	4	30	63-117	
N-Nitrosodiphenylamine	3.61	3.37	93	4	30	65-114	
Pentachlorophenol	7.21	7.98	111	7	30	56-116	
Phenanthrene	3.61	3.42	93	2	30	68-111	
Phenol	3.61	3.21	89	3	30	58-103	
Pyrene	3.61	3.66	100	3	30	64-121	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P00823.D Lab Sample ID: MB 460-504508/1-A

Matrix: Water Date Extracted: 03/19/2018 09:12

Instrument ID: CBNAMS18 Date Analyzed: 03/19/2018 21:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-504508/2-A	P00824.D	03/19/2018 21:48
	LCSD 460-504508/3-A	P00825.D	03/19/2018 22:09
	LCS 460-504508/4-A	P00826.D	03/19/2018 22:30
	LCSD 460-504508/5-A	P00827.D	03/19/2018 22:51
Recharge Basin	460-152136-1	P00840.D	03/20/2018 03:50

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: L2077649.d Lab Sample ID: MB 460-505109/1-A

Matrix: Solid Date Extracted: 03/21/2018 21:20

Instrument ID: CBNAMS12 Date Analyzed: 03/22/2018 10:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-505109/2-A	L2077647.d	03/22/2018 10:00
	LCS 460-505109/3-A	L2077648.d	03/22/2018 10:22
	460-152022-E-1-B MS	L2077651.d	03/22/2018 11:30
	460-152022-E-1-C MSD	L2077652.d	03/22/2018 11:53
Ash Pit	460-152136-2	L2077654.d	03/22/2018 12:38

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: L2077525.d DFTPP Injection Date: 03/15/2018

Instrument ID: CBNAMS12 DFTPP Injection Time: 14:47

Analysis Batch No.: 503804

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	51.8	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	45.4	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.9	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	24.3	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	13.9	(77.4) 3
442	Greater than 40.0 % of mass 198	90.4	
443	17.0 - 23.0 % of mass 442	17.9	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-503804/2	L2077526.d	03/15/2018	15:03
	STD120 460-503804/3	L2077527.d	03/15/2018	15:25
	STD80 460-503804/4	L2077528.d	03/15/2018	15:48
	STD20 460-503804/5	L2077529.d	03/15/2018	16:11
	STD10 460-503804/6	L2077530.d	03/15/2018	16:34
	STD5 460-503804/7	L2077531.d	03/15/2018	16:56
	STD2 460-503804/8	L2077532.d	03/15/2018	17:19
	STD1 460-503804/9	L2077533.d	03/15/2018	17:42
	STD05 460-503804/10	L2077534.d	03/15/2018	18:04
	STD50 460-503804/11	L2077535.d	03/15/2018	18:27
	STD120 460-503804/12	L2077536.d	03/15/2018	18:49
	STD80 460-503804/13	L2077537.d	03/15/2018	19:12
	STD20 460-503804/14	L2077538.d	03/15/2018	19:35
	STD10 460-503804/15	L2077539.d	03/15/2018	19:57
	STD5 460-503804/16	L2077540.d	03/15/2018	20:20
	STD2 460-503804/17	L2077541.d	03/15/2018	20:42
	ICV 460-503804/18	L2077542.d	03/15/2018	21:05
	ICV 460-503804/19	L2077543.d	03/15/2018	21:28

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: L2077643.d DFTPP Injection Date: 03/22/2018

Instrument ID: CBNAMS12 DFTPP Injection Time: 08:21

Analysis Batch No.: 505174

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	54.3	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	48.4	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	50.9	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	2.2	
441	Present but less than mass 443	12.0	(78.7) 3
442	Greater than 40.0 % of mass 198	81.3	
443	17.0 - 23.0 % of mass 442	15.2	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-505174/2	L2077644.d	03/22/2018	08:43
	CCV 460-505174/3	L2077645.d	03/22/2018	09:13
	LCS 460-505109/2-A	L2077647.d	03/22/2018	10:00
	LCS 460-505109/3-A	L2077648.d	03/22/2018	10:22
	MB 460-505109/1-A	L2077649.d	03/22/2018	10:45
	460-152022-E-1-B MS	L2077651.d	03/22/2018	11:30
	460-152022-E-1-C MSD	L2077652.d	03/22/2018	11:53
Ash Pit	460-152136-2	L2077654.d	03/22/2018	12:38

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P00456A.D DFTPP Injection Date: 02/27/2018

Instrument ID: CBNAMS18 DFTPP Injection Time: 15:20

Analysis Batch No.: 500035

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	55.7	
68	Less than 2.0 % of mass 69	0.9	(1.8) 1
69	Mass 69 relative abundance	51.8	
70	Less than 2.0 % of mass 69	0.2	(0.5) 1
127	40.0 - 60.0 % of mass 198	57.9	
197	Less than 1.0 % of mass 198	0.9	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.2	
275	10.0 - 30.0 % of mass 198	26.9	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	14.0	(84.8) 3
442	Greater than 40.0 % of mass 198	85.6	
443	17.0 - 23.0 % of mass 442	16.5	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-500035/2	P00457.D	02/27/2018	15:38
	STD24 460-500035/3	P00458.D	02/27/2018	16:01
	STD16 460-500035/4	P00459.D	02/27/2018	16:25
	STD4 460-500035/5	P00460.D	02/27/2018	16:49
	STD2 460-500035/6	P00461.D	02/27/2018	17:12
	STD1 460-500035/7	P00462.D	02/27/2018	17:36
	STD02 460-500035/8	P00463.D	02/27/2018	18:00
	STD01 460-500035/9	P00464.D	02/27/2018	18:23
	STD10 460-500035/10	P00465.D	02/27/2018	18:47
	STD24 460-500035/11	P00466.D	02/27/2018	19:11
	STD16 460-500035/12	P00467.D	02/27/2018	19:35
	STD4 460-500035/13	P00468.D	02/27/2018	19:59
	STD2 460-500035/14	P00469.D	02/27/2018	20:23
	STD1 460-500035/15	P00470.D	02/27/2018	20:47
	STD02 460-500035/16	P00471.D	02/27/2018	21:11
	ICV 460-500035/17	P00472.D	02/27/2018	21:34
	ICV 460-500035/18	P00473.D	02/27/2018	21:58

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: P00820C.D DFTPP Injection Date: 03/19/2018

Instrument ID: CBNAMS18 DFTPP Injection Time: 20:14

Analysis Batch No.: 504609

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	53.5	
68	Less than 2.0 % of mass 69	0.7	(1.5) 1
69	Mass 69 relative abundance	49.2	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	57.5	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.3	
275	10.0 - 30.0 % of mass 198	25.8	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	11.3	(76.0) 3
442	Greater than 40.0 % of mass 198	74.8	
443	17.0 - 23.0 % of mass 442	14.9	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-504609/2	P00821.D	03/19/2018	20:34
	CCV 460-504609/3	P00822.D	03/19/2018	21:01
	MB 460-504508/1-A	P00823.D	03/19/2018	21:27
	LCS 460-504508/2-A	P00824.D	03/19/2018	21:48
	LCSD 460-504508/3-A	P00825.D	03/19/2018	22:09
	LCS 460-504508/4-A	P00826.D	03/19/2018	22:30
	LCSD 460-504508/5-A	P00827.D	03/19/2018	22:51
Recharge Basin	460-152136-1	P00840.D	03/20/2018	03:50

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-503804/2 Date Analyzed: 03/15/2018 15:03

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): L2077526.d Heated Purge: (Y/N) N

Calibration ID: 66990

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		195859	4.61	761021	5.82	367988	7.48
UPPER LIMIT		391718	5.11	1522042	6.32	735976	7.98
LOWER LIMIT		97930	4.11	380511	5.32	183994	6.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-503804/18		169678	4.60	692643	5.81	345776	7.48
ICV 460-503804/19		157594	4.60	621401	5.81	302510	7.48

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-503804/2 Date Analyzed: 03/15/2018 15:03

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): L2077526.d Heated Purge: (Y/N) N

Calibration ID: 66990

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		719175	8.88	720419	11.56	689091	13.55
UPPER LIMIT		1438350	9.38	1440838	12.06	1378182	14.05
LOWER LIMIT		359588	8.38	360210	11.06	344546	13.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-503804/18		670034	8.88	630023	11.56	646943	13.55
ICV 460-503804/19		596330	8.88	615280	11.56	597549	13.55

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505174/2 Date Analyzed: 03/22/2018 08:43

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): L2077644.d Heated Purge: (Y/N) N

Calibration ID: 66994

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		170744	4.57	655625	5.78	323214	7.44
UPPER LIMIT		341488	5.07	1311250	6.28	646428	7.94
LOWER LIMIT		85372	4.07	327813	5.28	161607	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505174/3		161438	4.56	647814	5.78	319401	7.44
LCS 460-505109/2-A		198334	4.57	790773	5.78	386174	7.44
LCS 460-505109/3-A		177794	4.57	710629	5.78	357584	7.44
MB 460-505109/1-A		200614	4.56	810150	5.77	404085	7.44
460-152022-E-1-B MS		206606	4.57	826834	5.78	404125	7.44
460-152022-E-1-C MSD		216043	4.57	857510	5.78	418975	7.44
460-152136-2	Ash Pit	219844	4.57	879635	5.78	430776	7.44

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505174/2 Date Analyzed: 03/22/2018 08:43

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): L2077644.d Heated Purge: (Y/N) N

Calibration ID: 66994

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		624207	8.85	649176	11.52	646542	13.49
UPPER LIMIT		1248414	9.35	1298352	12.02	1293084	13.99
LOWER LIMIT		312104	8.35	324588	11.02	323271	12.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505174/3		616921	8.84	583787	11.51	628378	13.48
LCS 460-505109/2-A		709418	8.85	603346	11.51	598178	13.48
LCS 460-505109/3-A		677990	8.84	591565	11.50	596386	13.47
MB 460-505109/1-A		772371	8.84	652634	11.50	650644	13.47
460-152022-E-1-B MS		746807	8.85	637538	11.51	677002	13.48
460-152022-E-1-C MSD		768798	8.85	655186	11.51	696578	13.48
460-152136-2	Ash Pit	798285	8.84	664706	11.50	724685	13.48

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-500035/2 Date Analyzed: 02/27/2018 15:38

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P00457.D Heated Purge: (Y/N) N

Calibration ID: 66771

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		116200	4.31	456210	5.52	175499	7.19
UPPER LIMIT		232400	4.81	912420	6.02	350998	7.69
LOWER LIMIT		58100	3.81	228105	5.02	87750	6.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-500035/17		107274	4.31	430904	5.52	167096	7.19
ICV 460-500035/18		112030	4.30	436535	5.52	170089	7.18

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-500035/2 Date Analyzed: 02/27/2018 15:38

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P00457.D Heated Purge: (Y/N) N

Calibration ID: 66771

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		304398	8.59	259542	11.19	246022	13.04
UPPER LIMIT		608796	9.09	519084	11.69	492044	13.54
LOWER LIMIT		152199	8.09	129771	10.69	123011	12.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-500035/17		287003	8.58	222183	11.19	230231	13.04
ICV 460-500035/18		291367	8.58	232981	11.19	219912	13.03

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504609/2 Date Analyzed: 03/19/2018 20:34

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P00821.D Heated Purge: (Y/N) N

Calibration ID: 66776

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		89995	4.17	368644	5.39	159392	7.07
UPPER LIMIT		179990	4.67	737288	5.89	318784	7.57
LOWER LIMIT		44998	3.67	184322	4.89	79696	6.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-504609/3		100299	4.17	419297	5.39	187309	7.06
MB 460-504508/1-A		104771	4.17	438639	5.39	189516	7.06
LCS 460-504508/2-A		98820	4.17	414014	5.39	181817	7.07
LCSD 460-504508/3-A		96701	4.17	392941	5.39	168211	7.07
LCS 460-504508/4-A		89992	4.17	376487	5.39	164328	7.06
LCSD 460-504508/5-A		99950	4.17	423594	5.39	182546	7.06
460-152136-1	Recharge Basin	90246	4.17	381667	5.39	164977	7.06

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504609/2 Date Analyzed: 03/19/2018 20:34

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P00821.D Heated Purge: (Y/N) N

Calibration ID: 66776

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		306289	8.47	261212	11.06	225906	12.87
UPPER LIMIT		612578	8.97	522424	11.56	451812	13.37
LOWER LIMIT		153145	7.97	130606	10.56	112953	12.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-504609/3		357931	8.47	332358	11.06	352954	12.87
MB 460-504508/1-A		370178	8.47	318851	11.06	305006	12.87
LCS 460-504508/2-A		341652	8.47	298846	11.06	307786	12.87
LCSD 460-504508/3-A		319904	8.47	275436	11.06	268857	12.87
LCS 460-504508/4-A		312123	8.47	276435	11.05	283184	12.86
LCSD 460-504508/5-A		353697	8.47	310679	11.05	315294	12.86
460-152136-1	Recharge Basin	307059	8.46	265950	11.05	259417	12.86

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P00840.D

Analysis Method: 8270D | Date Collected: 03/16/2018 11:00

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 240(mL) | Date Analyzed: 03/20/2018 03:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.66	U	10	0.66
95-94-3	1,2,4,5-Tetrachlorobenzene	0.45	U	10	0.45
108-60-1	2,2'-oxybis[1-chloropropane]	0.97	U	10	0.97
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	10	0.72
95-95-4	2,4,5-Trichlorophenol	0.51	U	10	0.51
88-06-2	2,4,6-Trichlorophenol	0.55	U	10	0.55
120-83-2	2,4-Dichlorophenol	0.66	U	10	0.66
105-67-9	2,4-Dimethylphenol	0.95	U	10	0.95
51-28-5	2,4-Dinitrophenol	2.5	U	21	2.5
121-14-2	2,4-Dinitrotoluene	1.1	U	2.1	1.1
606-20-2	2,6-Dinitrotoluene	0.92	U	2.1	0.92
91-58-7	2-Chloronaphthalene	0.64	U	10	0.64
95-57-8	2-Chlorophenol	0.77	U	10	0.77
91-57-6	2-Methylnaphthalene	0.92	U	10	0.92
95-48-7	2-Methylphenol	1.3	U	10	1.3
88-74-4	2-Nitroaniline	0.68	U	10	0.68
88-75-5	2-Nitrophenol	0.61	U	10	0.61
15831-10-4	3 & 4 Methylphenol	0.92	U	10	0.92
91-94-1	3,3'-Dichlorobenzidine	1.1	U	10	1.1
99-09-2	3-Nitroaniline	0.85	U	10	0.85
534-52-1	4,6-Dinitro-2-methylphenol	2.1	U	21	2.1
101-55-3	4-Bromophenyl phenyl ether	1.1	U	10	1.1
59-50-7	4-Chloro-3-methylphenol	0.79	U	10	0.79
106-47-8	4-Chloroaniline	0.76	U	10	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.0	U	10	1.0
106-44-5	4-Methylphenol	0.91	U	10	0.91
100-01-6	4-Nitroaniline	0.50	U	10	0.50
100-02-7	4-Nitrophenol	4.8	U	21	4.8
83-32-9	Acenaphthene	0.92	U	10	0.92
208-96-8	Acenaphthylene	0.68	U	10	0.68
98-86-2	Acetophenone	1.1	U	10	1.1
120-12-7	Anthracene	0.59	U	10	0.59
1912-24-9	Atrazine	0.80	U	2.1	0.80
100-52-7	Benzaldehyde	0.90	U	10	0.90

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P00840.D

Analysis Method: 8270D | Date Collected: 03/16/2018 11:00

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 240(mL) | Date Analyzed: 03/20/2018 03:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	0.57	U	1.0	0.57
50-32-8	Benzo[a]pyrene	0.17	U	1.0	0.17
205-99-2	Benzo[b]fluoranthene	0.46	U	2.1	0.46
191-24-2	Benzo[g,h,i]perylene	0.78	U	10	0.78
207-08-9	Benzo[k]fluoranthene	0.19	U	1.0	0.19
111-91-1	Bis(2-chloroethoxy)methane	0.72	U	10	0.72
111-44-4	Bis(2-chloroethyl)ether	0.13	U	1.0	0.13
117-81-7	Bis(2-ethylhexyl) phthalate	0.75	U	2.1	0.75
85-68-7	Butyl benzyl phthalate	0.63	U	10	0.63
105-60-2	Caprolactam	1.1	U	10	1.1
86-74-8	Carbazole	0.89	U	10	0.89
218-01-9	Chrysene	0.70	U	2.1	0.70
53-70-3	Dibenz(a,h)anthracene	0.094	U	1.0	0.094
132-64-9	Dibenzofuran	0.89	U	10	0.89
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	1.0	U	10	1.0
84-74-2	Di-n-butyl phthalate	0.85	U	10	0.85
117-84-0	Di-n-octyl phthalate	0.72	U	10	0.72
206-44-0	Fluoranthene	0.75	U	10	0.75
86-73-7	Fluorene	0.83	U	10	0.83
118-74-1	Hexachlorobenzene	0.49	U	1.0	0.49
87-68-3	Hexachlorobutadiene	0.79	U	1.0	0.79
77-47-4	Hexachlorocyclopentadiene	0.64	U	10	0.64
67-72-1	Hexachloroethane	0.094	U	2.1	0.094
193-39-5	Indeno[1,2,3-cd]pyrene	0.22	U	2.1	0.22
78-59-1	Isophorone	0.70	U	10	0.70
91-20-3	Naphthalene	0.83	U	10	0.83
98-95-3	Nitrobenzene	0.51	U	1.0	0.51
621-64-7	N-Nitrosodi-n-propylamine	0.86	U	1.0	0.86
86-30-6	N-Nitrosodiphenylamine	0.77	U	10	0.77
87-86-5	Pentachlorophenol	2.3	U	21	2.3
85-01-8	Phenanthrene	0.68	U	10	0.68
108-95-2	Phenol	0.43	U	10	0.43
129-00-0	Pyrene	0.86	U	10	0.86

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P00840.D

Analysis Method: 8270D | Date Collected: 03/16/2018 11:00

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 240(mL) | Date Analyzed: 03/20/2018 03:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	111		26-139
321-60-8	2-Fluorobiphenyl	91		45-107
367-12-4	2-Fluorophenol (Surr)	52		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	102		51-108
4165-62-2	Phenol-d5 (Surr)	34		14-39
1718-51-0	Terphenyl-d14 (Surr)	114		40-148

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: P00840.D

Analysis Method: 8270D | Date Collected: 03/16/2018 11:00

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 240(mL) | Date Analyzed: 03/20/2018 03:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00840.D
Lims ID: 460-152136-H-1-A
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 20-Mar-2018 03:50:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-021
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 12:04:14 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 12:04:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	2.945	2.948	0.007	93	85067	5.22	
$ 6 Phenol-d5	99	3.838	3.841	-0.003	99	69979	3.40	
* 14 1,4-Dichlorobenzene-d4	152	4.170	4.170	0.000	98	90246	8.00	
$ 27 Nitrobenzene-d5	82	4.703	4.707	-0.004	90	187990	10.2	
* 38 Naphthalene-d8	136	5.392	5.394	-0.002	99	381667	8.00	
$ 51 2-Fluorobiphenyl	172	6.430	6.432	-0.002	97	302116	9.13	
* 64 Acenaphthene-d10	164	7.062	7.065	-0.003	99	164977	8.00	
$ 80 2,4,6-Tribromophenol	330	7.809	7.816	-0.007	92	46846	11.1	
* 87 Phenanthrene-d10	188	8.464	8.468	-0.004	99	307059	8.00	
$ 96 Terphenyl-d14	244	9.985	9.988	-0.003	99	380646	11.4	
* 102 Chrysene-d12	240	11.052	11.061	-0.009	99	265950	8.00	
* 109 Perylene-d12	264	12.859	12.866	-0.007	96	259417	8.00	

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

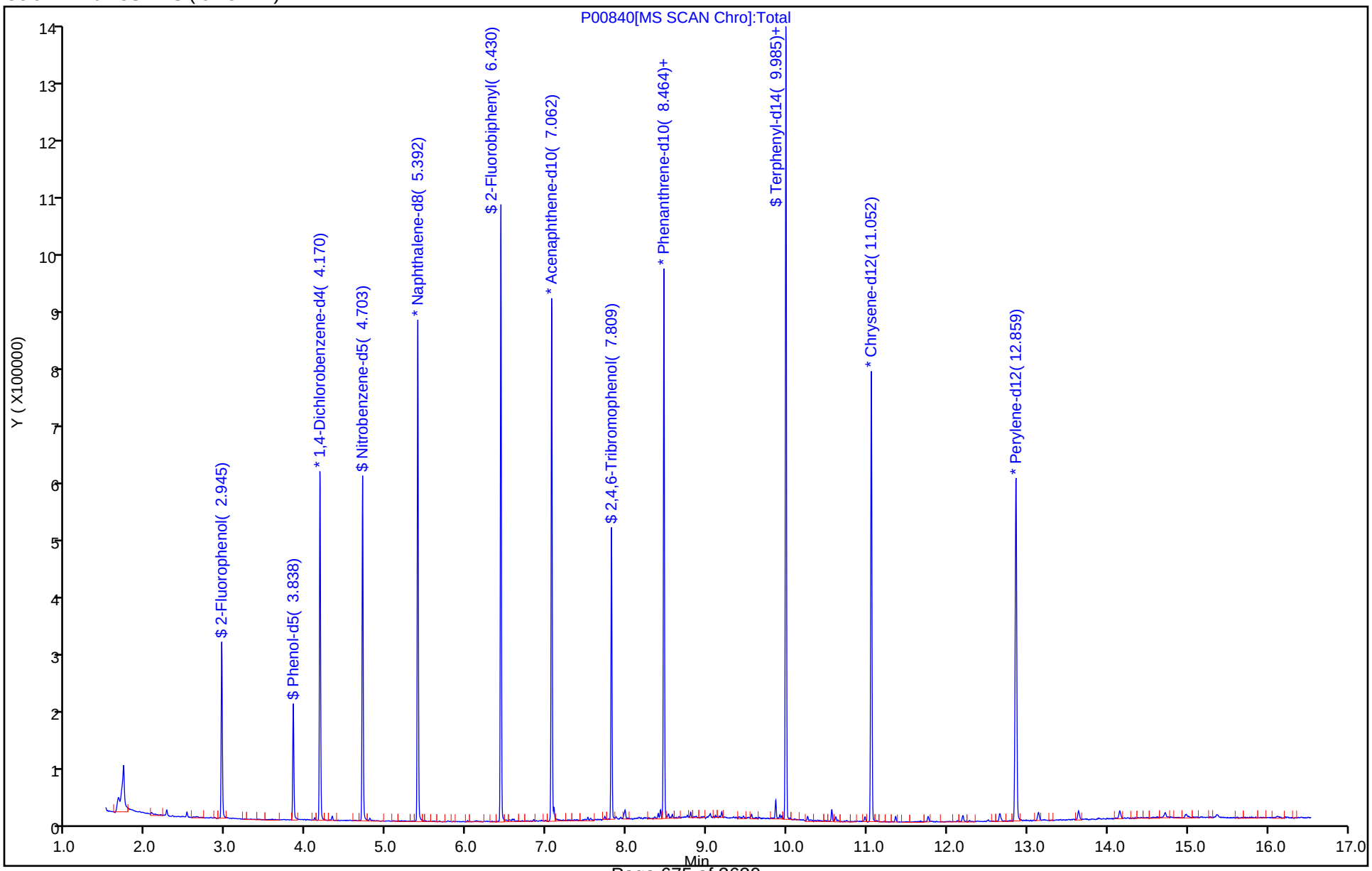
Report Date: 20-Mar-2018 12:04:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00840.D

Injection Date:	20-Mar-2018 03:50:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	460-152136-H-1-A	Lab Sample ID:	460-152136-1	Worklist Smp#:	21
Client ID:	Recharge Basin				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



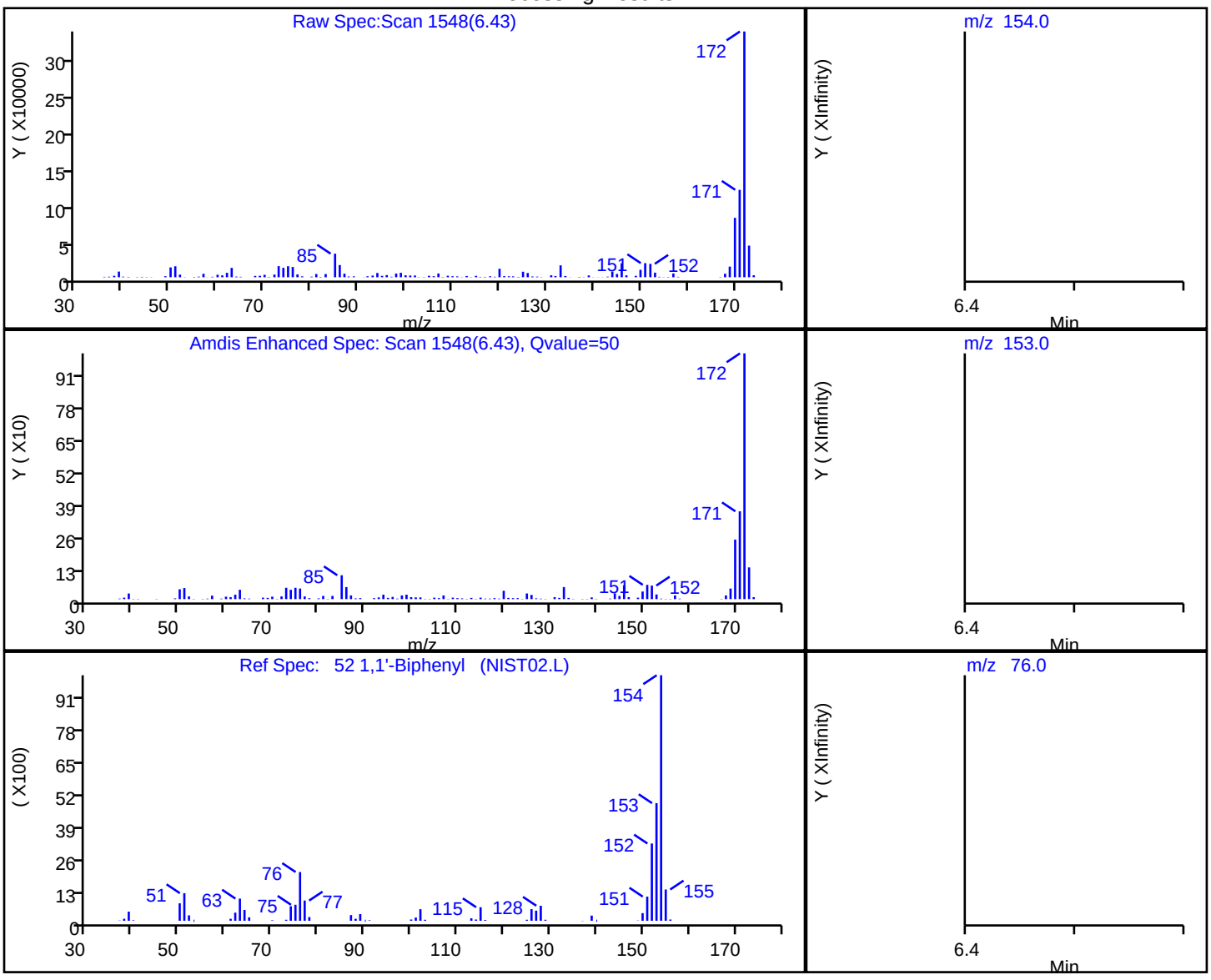
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00840.D				
Injection Date:	20-Mar-2018 03:50:30	Instrument ID:	CBNAMS18		
Lims ID:	460-152136-H-1-A	Lab Sample ID:	460-152136-1		
Client ID:	Recharge Basin				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 1,1'-Biphenyl, CAS: 92-52-4

Processing Results



RT	Mass	Response	Amount
6.43	154.00	494	0.013144
6.43	153.00	5612	
6.43	76.00	12840	

Reviewer: croccom, 20-Mar-2018 10:24:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

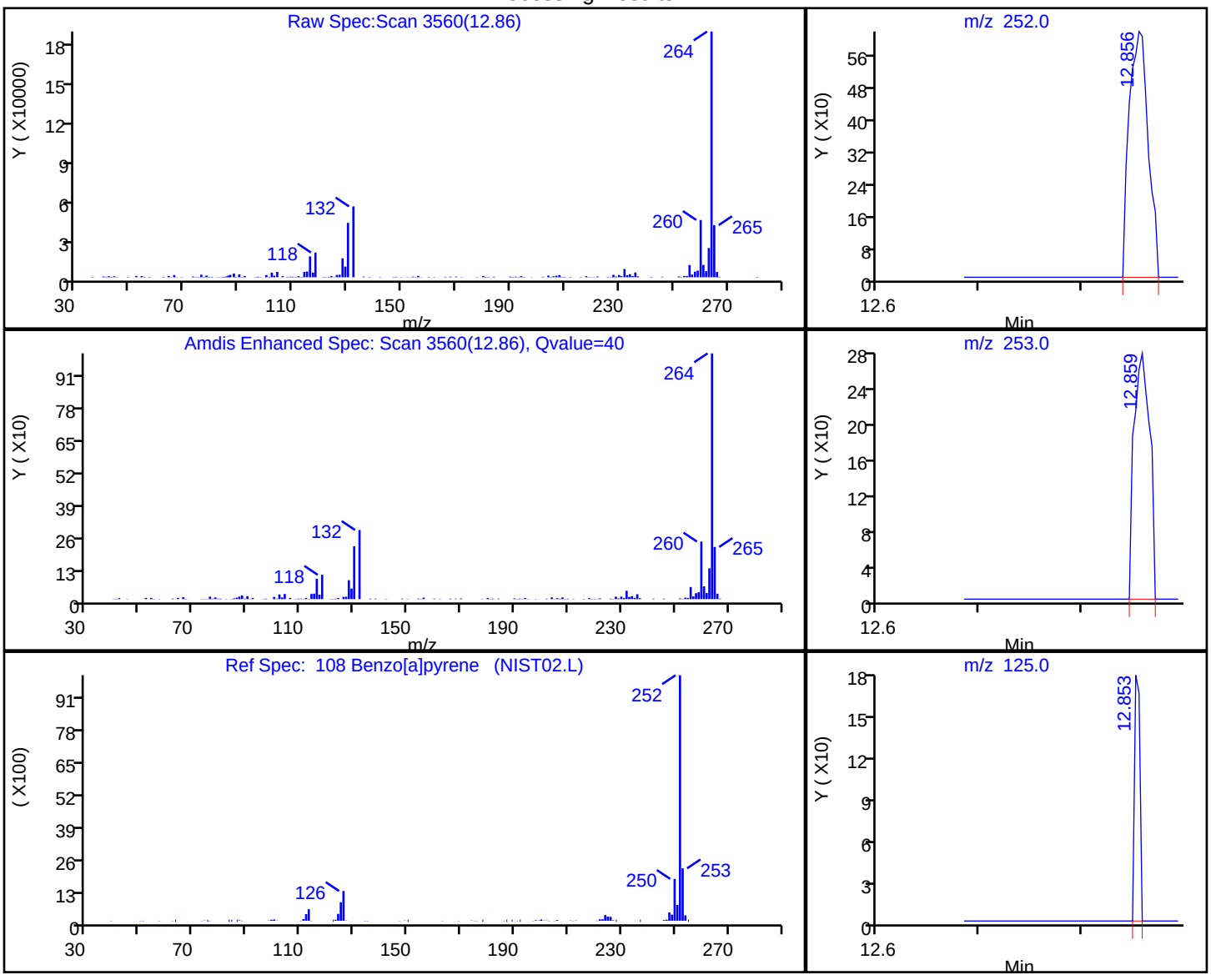
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00840.D				
Injection Date:	20-Mar-2018 03:50:30	Instrument ID:	CBNAMS18		
Lims ID:	460-152136-H-1-A	Lab Sample ID:	460-152136-1		
Client ID:	Recharge Basin				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
12.86	252.00	792	0.022356
12.86	253.00	290	
12.85	125.00	66	

Reviewer: croccom, 20-Mar-2018 10:24:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: L2077654.d

Analysis Method: 8270D | Date Collected: 03/16/2018 09:45

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0071(g) | Date Analyzed: 03/22/2018 12:38

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

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

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1.9		1.1	0.015
95-94-3	1,2,4,5-Tetrachlorobenzene	0.014	U	1.1	0.014
123-91-1	1,4-Dioxane	0.030	U	1.1	0.030
108-60-1	2,2'-oxybis[1-chloropropane]	0.020	U	1.1	0.020
58-90-2	2,3,4,6-Tetrachlorophenol	0.075	U	1.1	0.075
95-95-4	2,4,5-Trichlorophenol	0.036	U	1.1	0.036
88-06-2	2,4,6-Trichlorophenol	0.056	U	0.44	0.056
120-83-2	2,4-Dichlorophenol	0.023	U	0.44	0.023
105-67-9	2,4-Dimethylphenol	0.093	J	1.1	0.049
51-28-5	2,4-Dinitrophenol	0.54	U	0.89	0.54
121-14-2	2,4-Dinitrotoluene	0.056	U	0.22	0.056
606-20-2	2,6-Dinitrotoluene	0.036	U	0.22	0.036
91-58-7	2-Chloronaphthalene	0.051	U	1.1	0.051
95-57-8	2-Chlorophenol	0.015	U	1.1	0.015
91-57-6	2-Methylnaphthalene	0.34	J	1.1	0.014
95-48-7	2-Methylphenol	0.19	J	1.1	0.018
88-74-4	2-Nitroaniline	0.041	U	1.1	0.041
88-75-5	2-Nitrophenol	0.035	U	1.1	0.035
15831-10-4	3 & 4 Methylphenol	0.48	J	1.1	0.019
91-94-1	3,3'-Dichlorobenzidine	0.17	U	0.44	0.17
99-09-2	3-Nitroaniline	0.060	U	1.1	0.060
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	0.89	0.18
101-55-3	4-Bromophenyl phenyl ether	0.014	U	1.1	0.014
59-50-7	4-Chloro-3-methylphenol	0.018	U	1.1	0.018
106-47-8	4-Chloroaniline	0.077	U	1.1	0.077
7005-72-3	4-Chlorophenyl phenyl ether	0.017	U	1.1	0.017
106-44-5	4-Methylphenol	0.48	J	1.1	0.019
100-01-6	4-Nitroaniline	0.041	U	1.1	0.041
100-02-7	4-Nitrophenol	0.18	U	2.2	0.18
83-32-9	Acenaphthene	0.080	U	1.1	0.080
208-96-8	Acenaphthylene	0.16	J	1.1	0.011
98-86-2	Acetophenone	1.2		1.1	0.018
120-12-7	Anthracene	0.063	J	1.1	0.012
1912-24-9	Atrazine	0.028	U	0.44	0.028

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: L2077654.d

Analysis Method: 8270D | Date Collected: 03/16/2018 09:45

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0071(g) | Date Analyzed: 03/22/2018 12:38

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

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

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	0.85	J	1.1	0.048
56-55-3	Benzo[a]anthracene	0.038	U	0.11	0.038
50-32-8	Benzo[a]pyrene	0.047	J	0.11	0.029
205-99-2	Benzo[b]fluoranthene	0.091	J	0.11	0.029
191-24-2	Benzo[g,h,i]perylene	0.033	U	1.1	0.033
207-08-9	Benzo[k]fluoranthene	0.022	U	0.11	0.022
111-91-1	Bis(2-chloroethoxy)methane	0.038	U	1.1	0.038
111-44-4	Bis(2-chloroethyl)ether	0.013	U	0.11	0.013
117-81-7	Bis(2-ethylhexyl) phthalate	1.7		1.1	0.058
85-68-7	Butyl benzyl phthalate	0.052	U	1.1	0.052
105-60-2	Caprolactam	1.6		1.1	0.066
86-74-8	Carbazole	0.013	U	1.1	0.013
218-01-9	Chrysene	0.12	J	1.1	0.019
53-70-3	Dibenz(a,h)anthracene	0.048	U	0.11	0.048
132-64-9	Dibenzofuran	0.14	J	1.1	0.016
84-66-2	Diethyl phthalate	0.016	U	1.1	0.016
131-11-3	Dimethyl phthalate	0.013	U	1.1	0.013
84-74-2	Di-n-butyl phthalate	0.19	U	1.1	0.19
117-84-0	Di-n-octyl phthalate	0.46	J	1.1	0.058
206-44-0	Fluoranthene	0.17	J	1.1	0.014
86-73-7	Fluorene	0.081	J	1.1	0.015
118-74-1	Hexachlorobenzene	0.016	U	0.11	0.016
87-68-3	Hexachlorobutadiene	0.023	U	0.22	0.023
77-47-4	Hexachlorocyclopentadiene	0.097	U	1.1	0.097
67-72-1	Hexachloroethane	0.017	U	0.11	0.017
193-39-5	Indeno[1,2,3-cd]pyrene	0.043	U	0.11	0.043
78-59-1	Isophorone	0.029	U	0.44	0.029
91-20-3	Naphthalene	1.2		1.1	0.019
98-95-3	Nitrobenzene	0.027	U	0.11	0.027
621-64-7	N-Nitrosodi-n-propylamine	0.018	U	0.11	0.018
86-30-6	N-Nitrosodiphenylamine	0.021	U	1.1	0.021
87-86-5	Pentachlorophenol	0.23	U	0.89	0.23
85-01-8	Phenanthrene	0.42	J	1.1	0.019
108-95-2	Phenol	0.92	J	1.1	0.016

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: L2077654.d

Analysis Method: 8270D | Date Collected: 03/16/2018 09:45

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0071(g) | Date Analyzed: 03/22/2018 12:38

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

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

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
129-00-0	Pyrene	0.20	J	1.1	0.027

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	87		10-103
321-60-8	2-Fluorobiphenyl	75		38-95
367-12-4	2-Fluorophenol (Surr)	68		25-92
4165-60-0	Nitrobenzene-d5 (Surr)	66		37-94
4165-62-2	Phenol-d5 (Surr)	73		32-91
1718-51-0	Terphenyl-d14 (Surr)	78		24-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: L2077654.d

Analysis Method: 8270D | Date Collected: 03/16/2018 09:45

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0071(g) | Date Analyzed: 03/22/2018 12:38

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

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

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

Number TICs Found: 7 | TIC Result Total: 23.52

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
98-01-1	Furfural	2.96	1.2	J N	95%
694-87-1	Bicyclo[4.2.0]octa-1,3,5-triene	3.54	1.7	J N	96%
103495-51-8	Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-carbonitrile	4.32	4.1	J N	95%
108-67-8	Benzene, 1,3,5-trimethyl-	4.41	1.6	J N	97%
65-85-0	Benzoic Acid	5.52	0.95	J N	94%
	Unknown	7.03	0.97	J	
80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	10.26	13	J N	96%

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d
Lims ID: 460-152136-E-2-G
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 12:38:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-012
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:54:15 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:54:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.340	3.328	0.012	91	253899	34.2	
5 Benzaldehyde	77	4.152	4.152	0.000	92	26048	3.83	
$ 6 Phenol-d5	99	4.216	4.222	-0.006	0	339226	36.6	
7 Phenol	94	4.228	4.234	-0.006	98	40337	4.12	
* 13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	97	219844	40.0	
17 2-Methylphenol	108	4.804	4.804	0.000	84	5791	0.8320	
22 Acetophenone	105	4.940	4.946	-0.006	96	58805	5.38	
19 4-Methylphenol	108	4.946	4.951	-0.005	96	17241	2.16	
20 3 & 4 Methylphenol	108	4.946	4.951	-0.005	89	17241	2.16	
$ 26 Nitrobenzene-d5	82	5.087	5.093	-0.006	93	278779	33.0	
31 2,4-Dimethylphenol	122	5.463	5.457	0.006	83	2772	0.4188	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	879635	40.0	
37 Naphthalene	128	5.793	5.793	0.000	98	117870	5.38	
40 Caprolactam	113	6.145	6.151	-0.006	88	13144	7.03	
42 2-Methylnaphthalene	142	6.451	6.451	0.000	83	22886	1.55	
$ 50 2-Fluorobiphenyl	172	6.798	6.804	-0.006	97	609553	37.3	
51 1,1'-Biphenyl	154	6.893	6.898	-0.006	96	147645	8.33	
61 Acenaphthylene	152	7.298	7.304	-0.006	96	14765	0.7022	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	99	430776	40.0	
69 Dibenzofuran	168	7.628	7.634	-0.006	94	12817	0.6514	
74 Fluorene	166	7.951	7.957	-0.006	94	5822	0.3659	
$ 79 2,4,6-Tribromophenol	330	8.181	8.187	-0.006	96	100291	43.6	
* 85 Phenanthrene-d10	188	8.839	8.845	-0.006	99	798285	40.0	
86 Phenanthrene	178	8.857	8.869	-0.012	98	42937	1.88	
87 Anthracene	178	8.904	8.916	-0.012	98	6721	0.2842	
90 Fluoranthene	202	9.981	9.992	-0.011	97	18486	0.7650	
92 Pyrene	202	10.198	10.204	-0.006	96	19796	0.9048	
$ 94 Terphenyl-d14	244	10.363	10.363	0.000	99	594992	38.8	
* 100 Chrysene-d12	240	11.504	11.516	-0.012	99	664706	40.0	
101 Chrysene	228	11.528	11.545	-0.017	97	9830	0.5245	
102 Bis(2-ethylhexyl) phthalat	149	11.563	11.569	-0.006	86	109417	7.81	
103 Di-n-octyl phthalate	149	12.445	12.445	0.000	96	51780	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
104 Benzo[b]fluoranthene	252	12.922	12.933	-0.011	98	8178	0.4071	M
106 Benzo[a]pyrene	252	13.386	13.398	-0.012	96	4054	0.2125	
* 107 Perylene-d12	264	13.480	13.486	-0.006	98	724685	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.116	15.133	-0.023	92	3015	0.1715	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d
Lims ID: 460-152136-E-2-G
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 12:38:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-012
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:54:15 Calib Date: 15-Mar-2018 20:42:30
Tic RT Window: 0.000 -0.000 Response: area
Quant By: Nearest ISTD Quant LOD: 10.00000
MS Library: \\ChromNA\Edison\Database\NIST02.L
Min. Match: 80

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:54:15

Tentative Identified Compound Results

RT	Area	Amount ug/ml	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
	98-01-1	Furfural						
2.957	193909	5.51	13	95	2681	C5H4O2	96	
	694-87-1	Bicyclo[4.2.0]octa-1,3,5-triene						
3.540	268536	7.62	13	96	4766	C8H8	104	
	103495-51-8	Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-carbonitrile						
4.322	648148	18.4	13	95	4527	C7H5N	103	
	108-67-8	Benzene, 1,3,5-trimethyl-						
4.410	254428	7.22	13	97	9122	C9H12	120	
	65-85-0	Benzoic Acid						
5.522	225431	4.27	36	94	9572	C7H6O2	122	
		Unknown						
7.028	226755	4.37	63	0	0		0	
	80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-						
10.257	2932256	60.5	100	96	75160	C15H16O2	228	

Quantitation Compounds

Compound	RT	Area	Amount ug/ml
* 13 1,4-Dichlorobenzene-d4	4.569	1408736	40.0
* 36 Naphthalene-d8	5.775	2111150	40.0
* 63 Acenaphthene-d10	7.440	2074456	40.0
* 100 Chrysene-d12	11.504	1940142	40.0

QC Flag Legend

Processing Flags

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

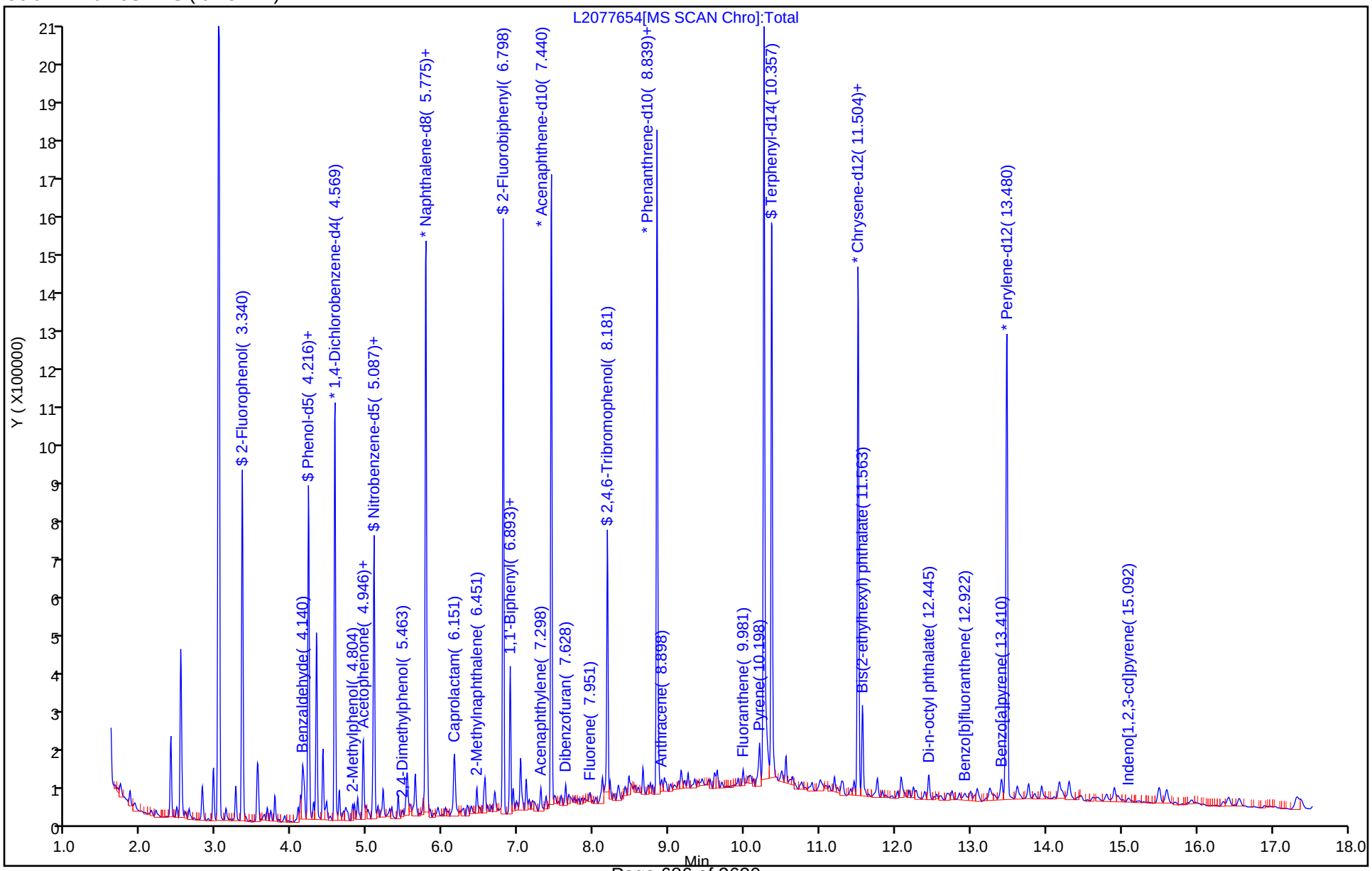
Report Date: 22-Mar-2018 15:54:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2	Worklist Smp#:	12
Client ID:	Ash Pit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



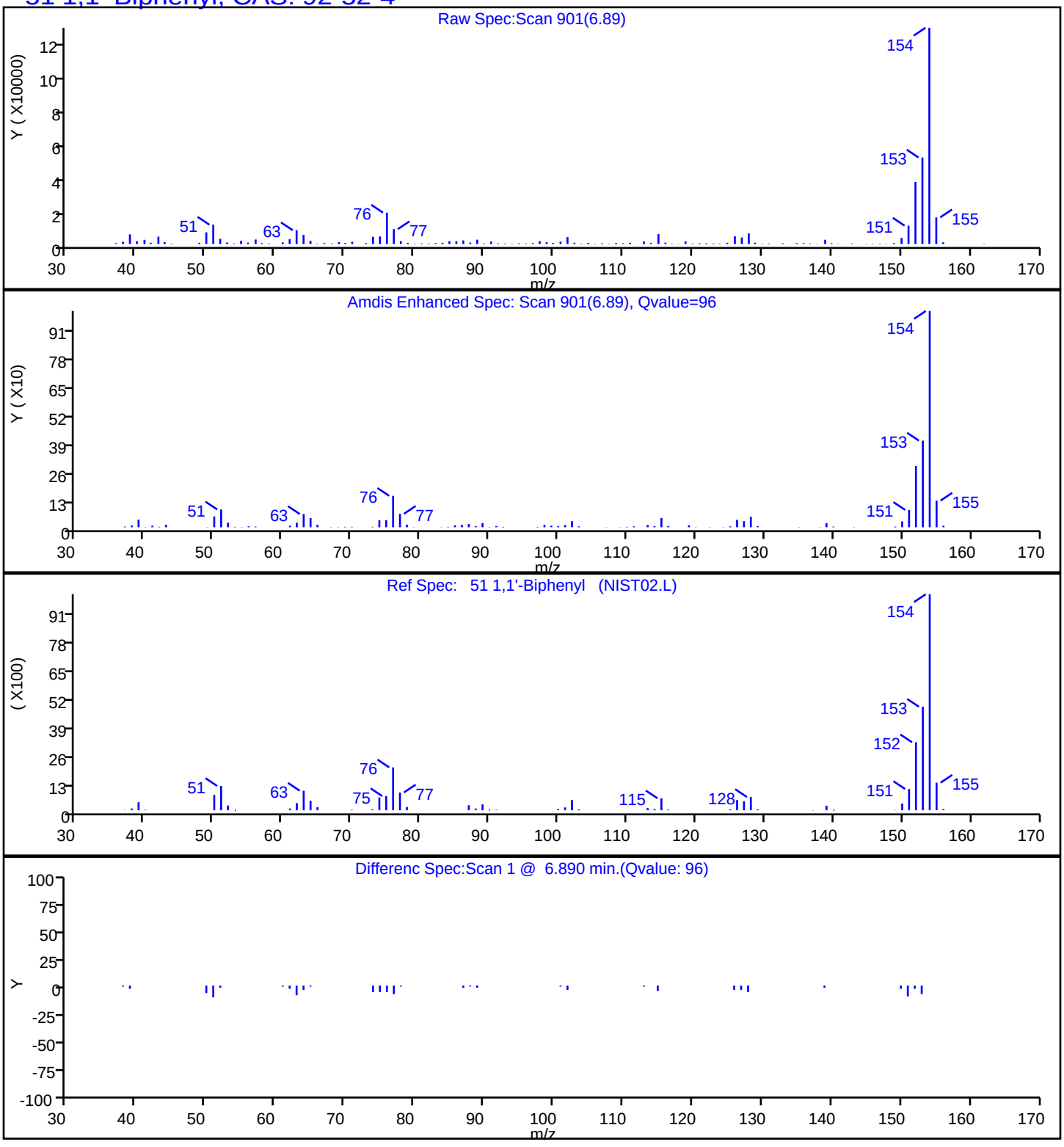
Report Date: 22-Mar-2018 15:54:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

51 1,1'-Biphenyl, CAS: 92-52-4



Report Date: 22-Mar-2018 15:54:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

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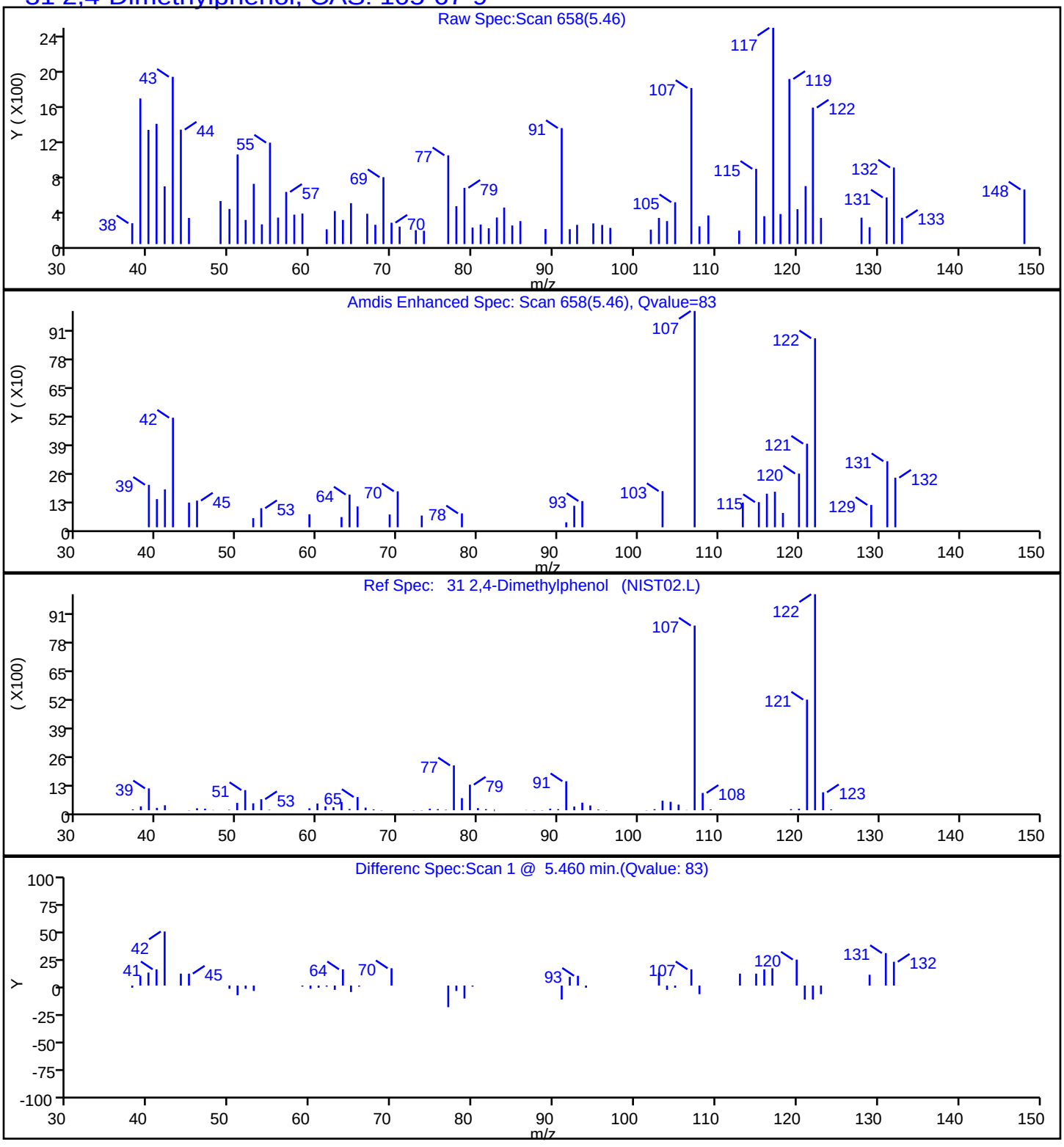
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

31 2,4-Dimethylphenol, CAS: 105-67-9



Report Date: 22-Mar-2018 15:54:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

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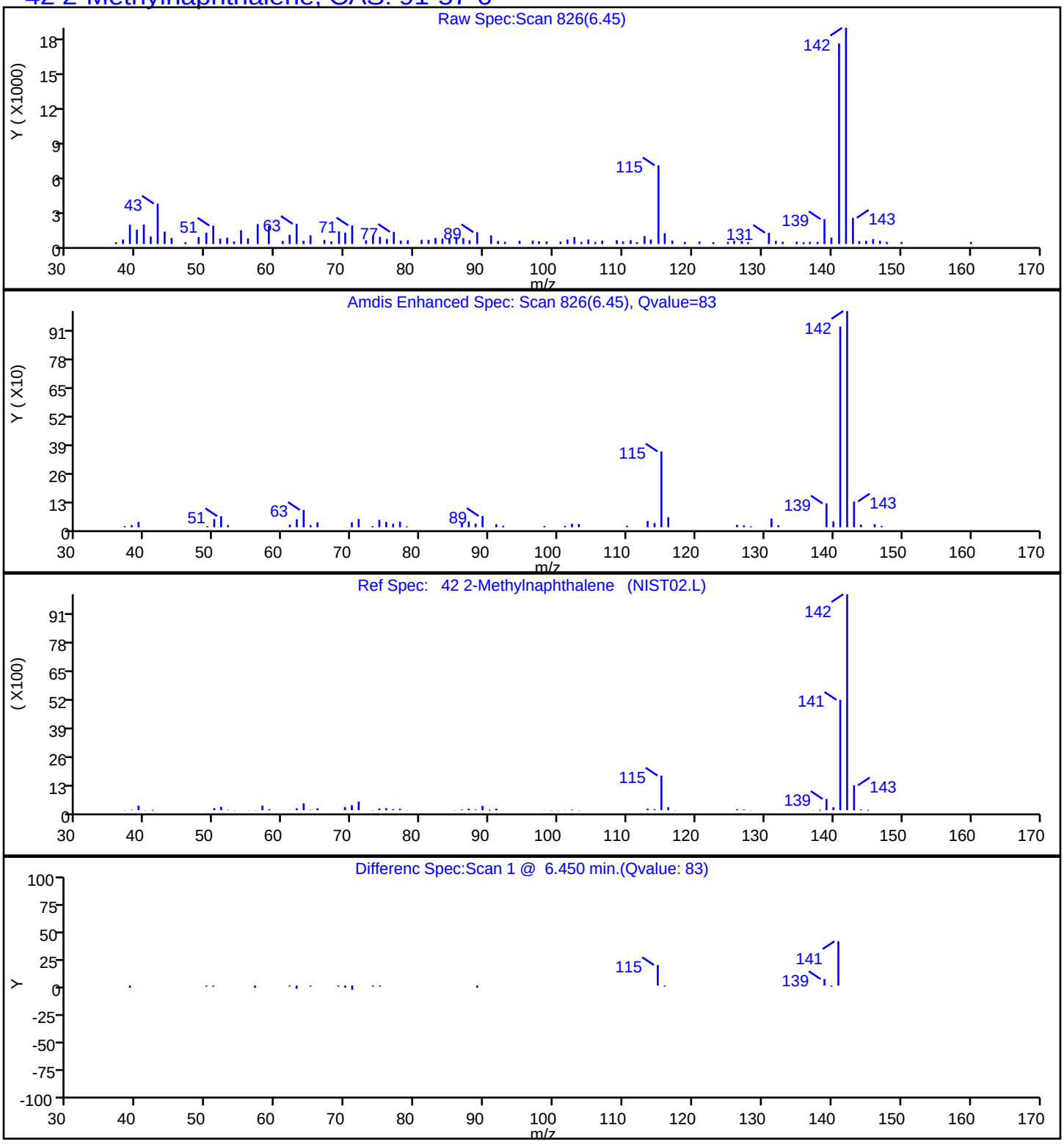
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

42 2-Methylnaphthalene, CAS: 91-57-6



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
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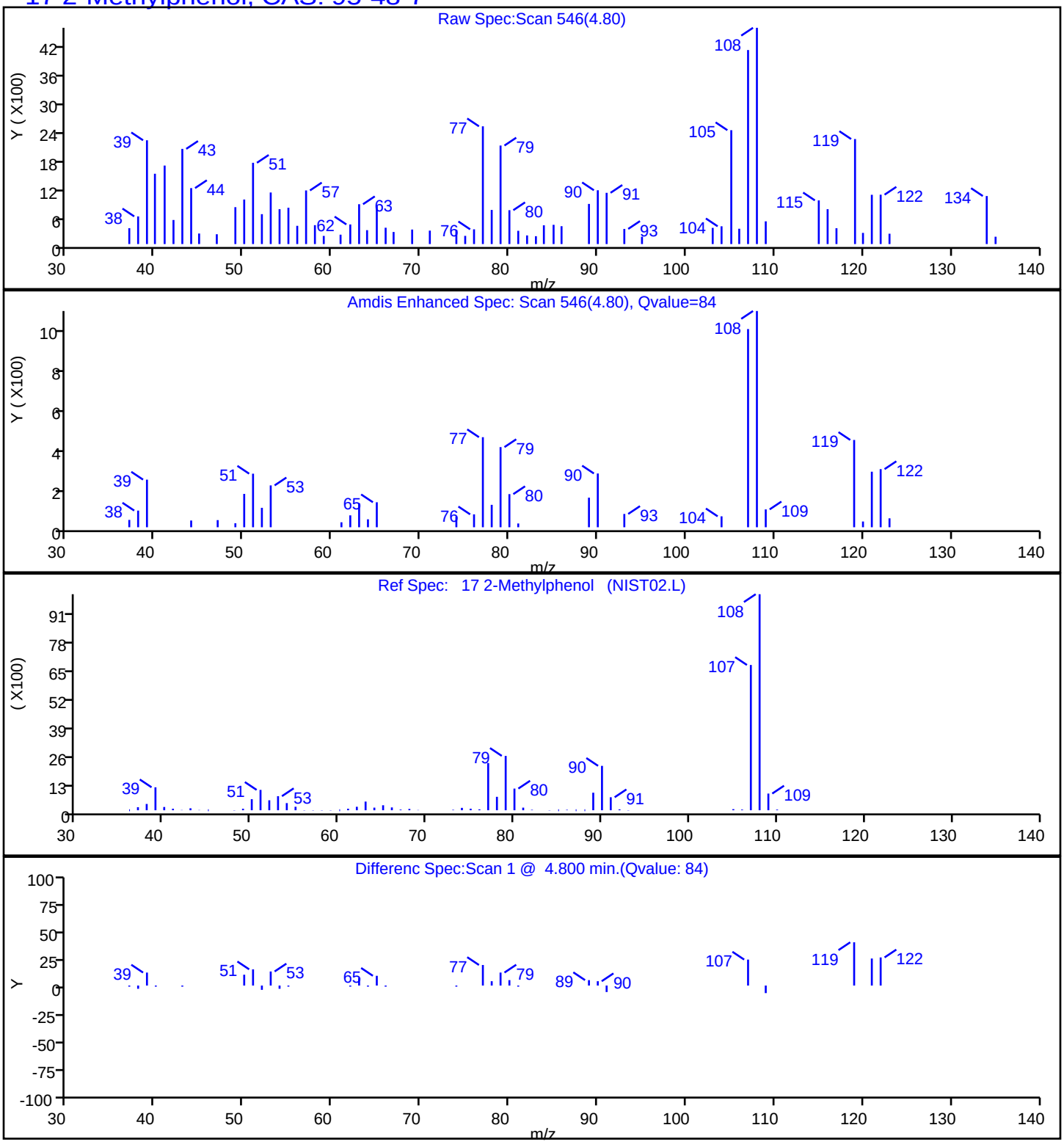
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 2-Methylphenol, CAS: 95-48-7



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TestAmerica Edison

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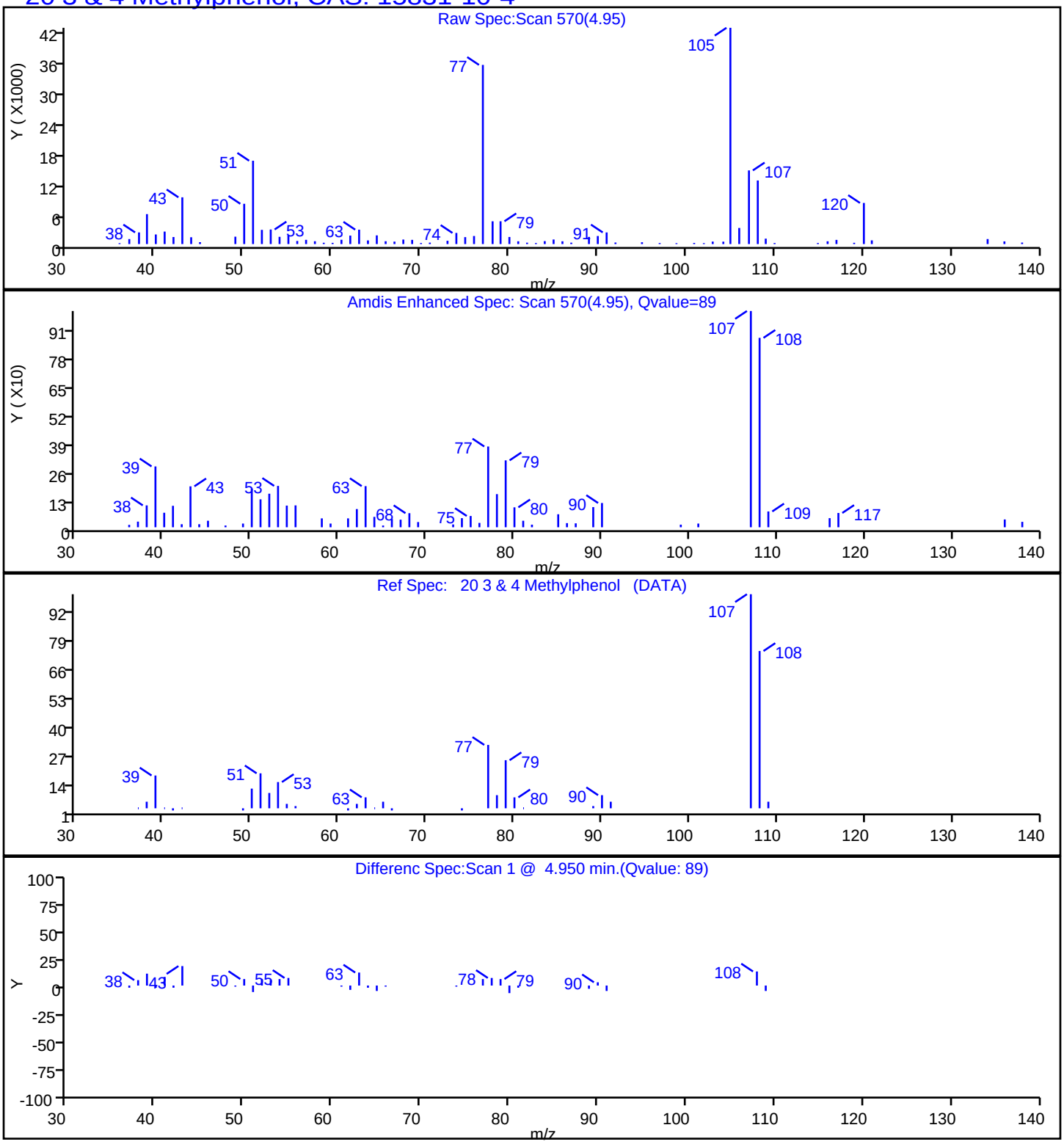
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 3 & 4 Methylphenol, CAS: 15831-10-4



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
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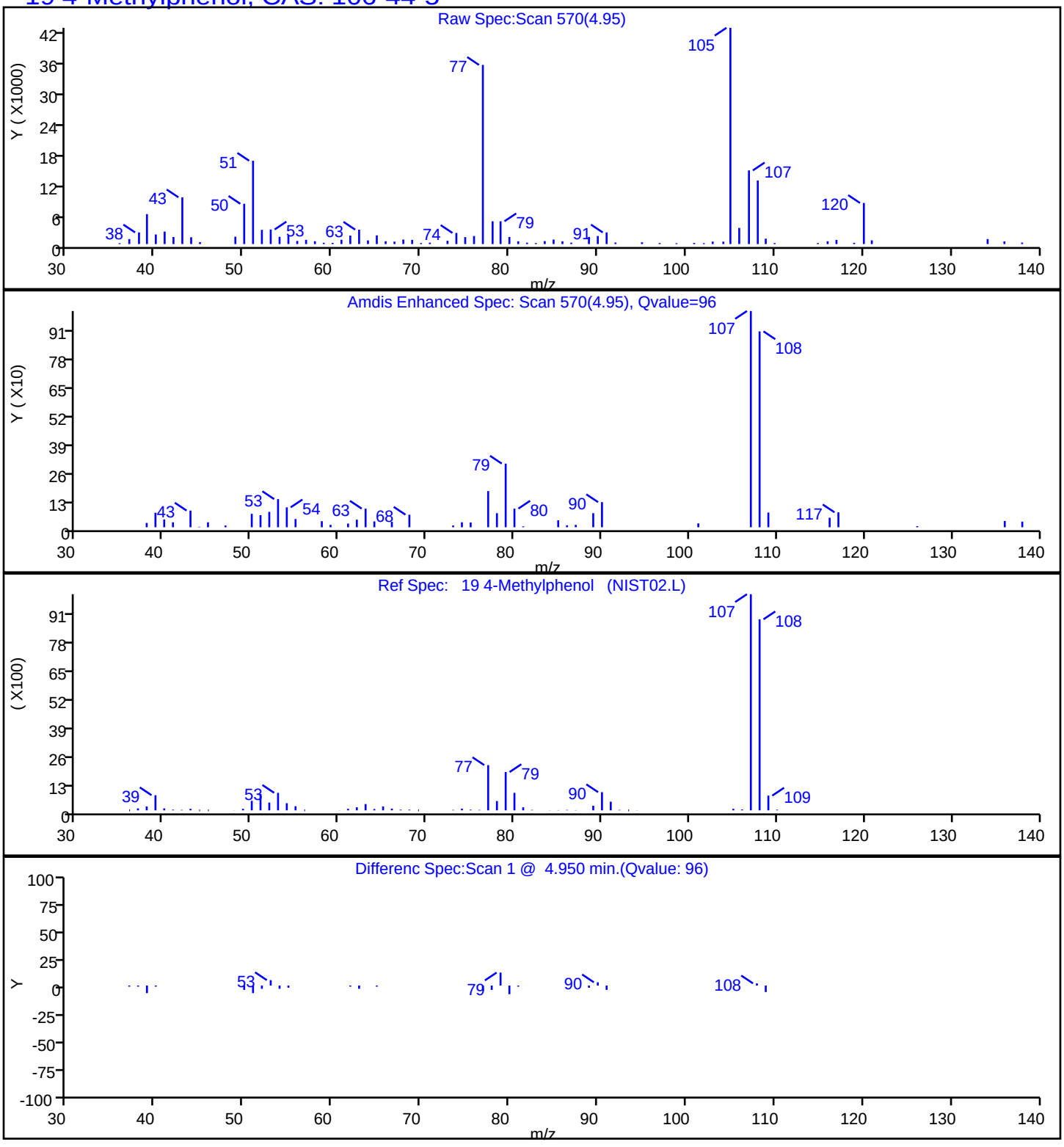
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 4-Methylphenol, CAS: 106-44-5



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TestAmerica Edison

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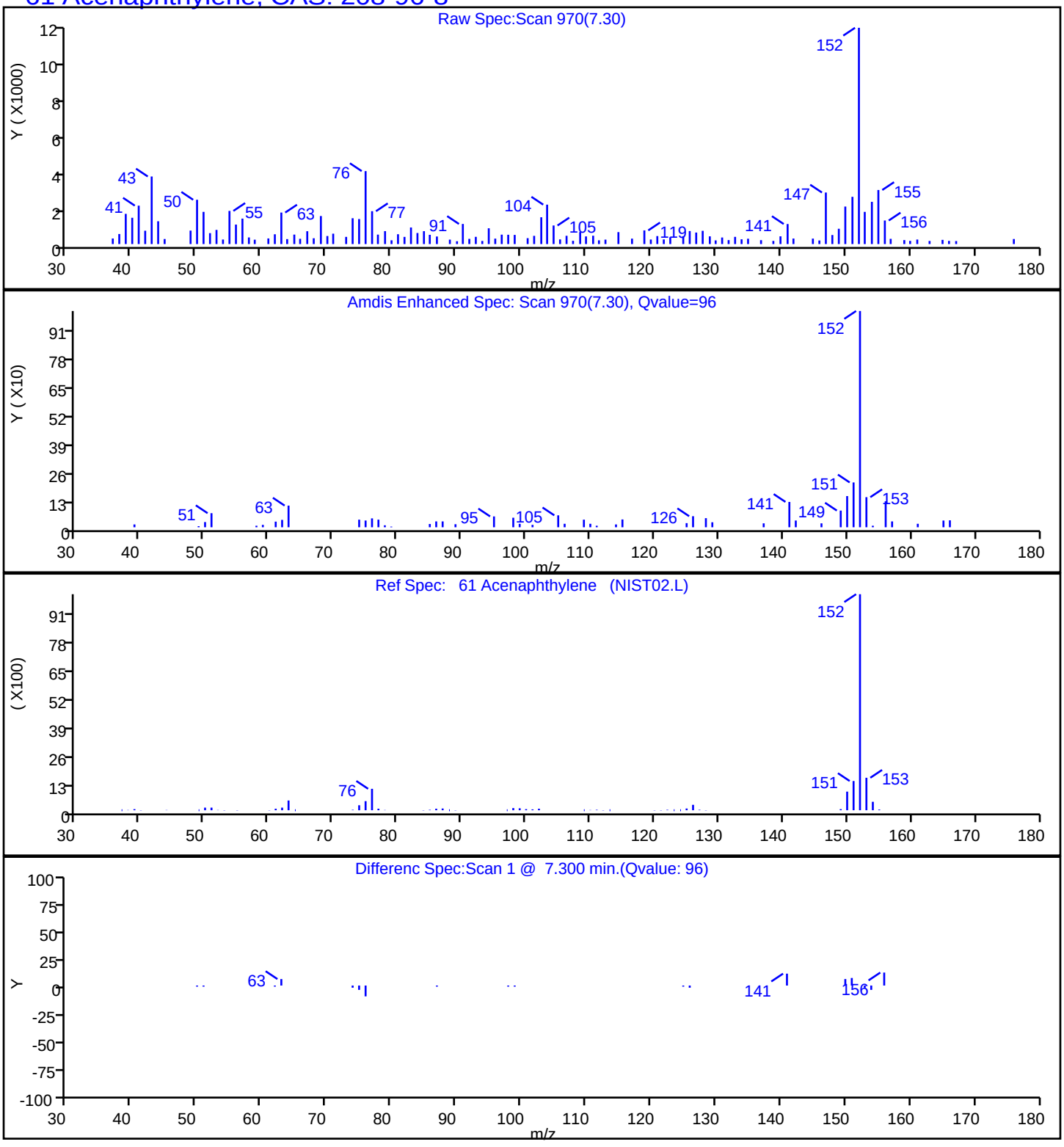
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

61 Acenaphthylene, CAS: 208-96-8



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
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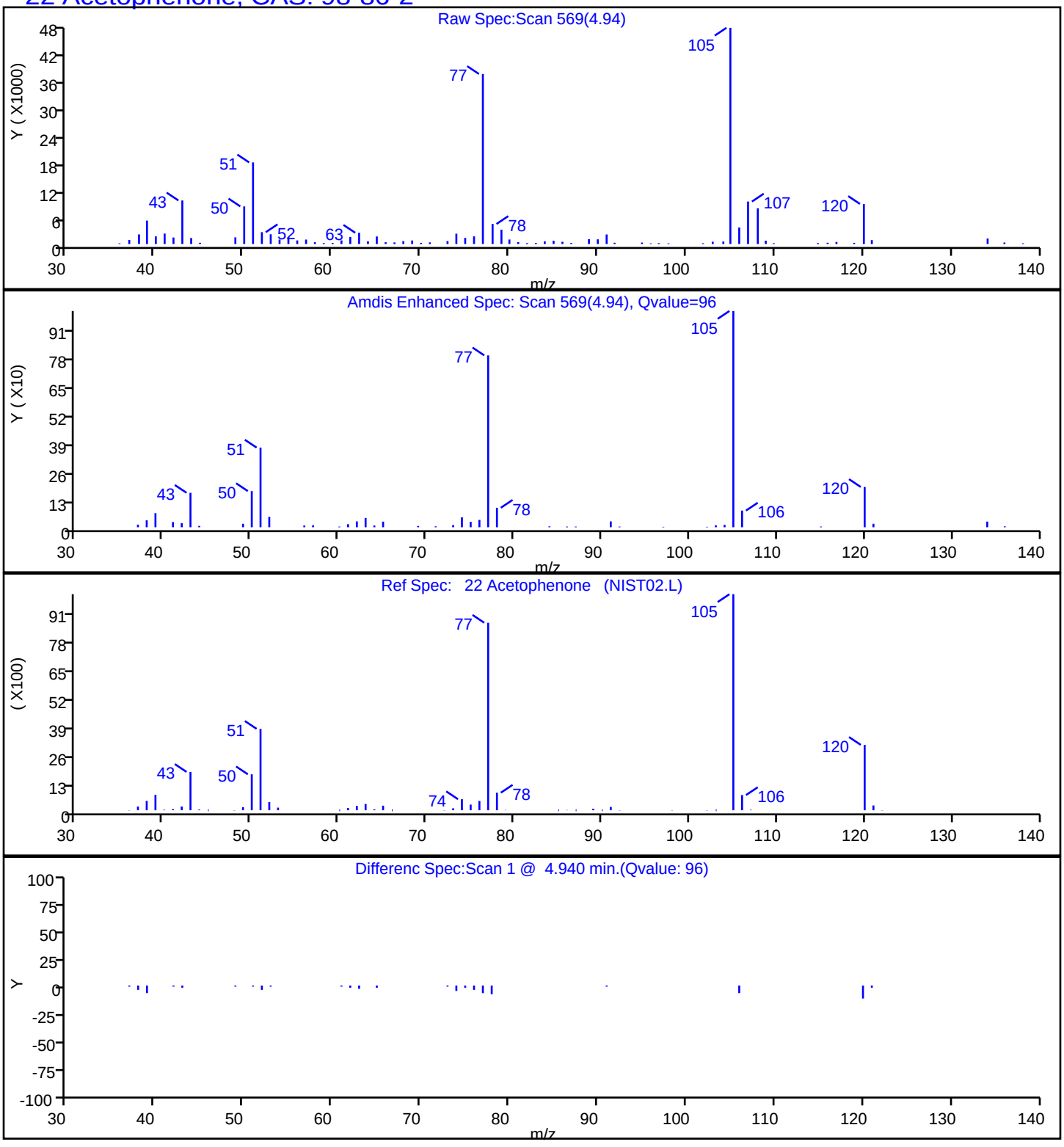
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

22 Acetophenone, CAS: 98-86-2



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
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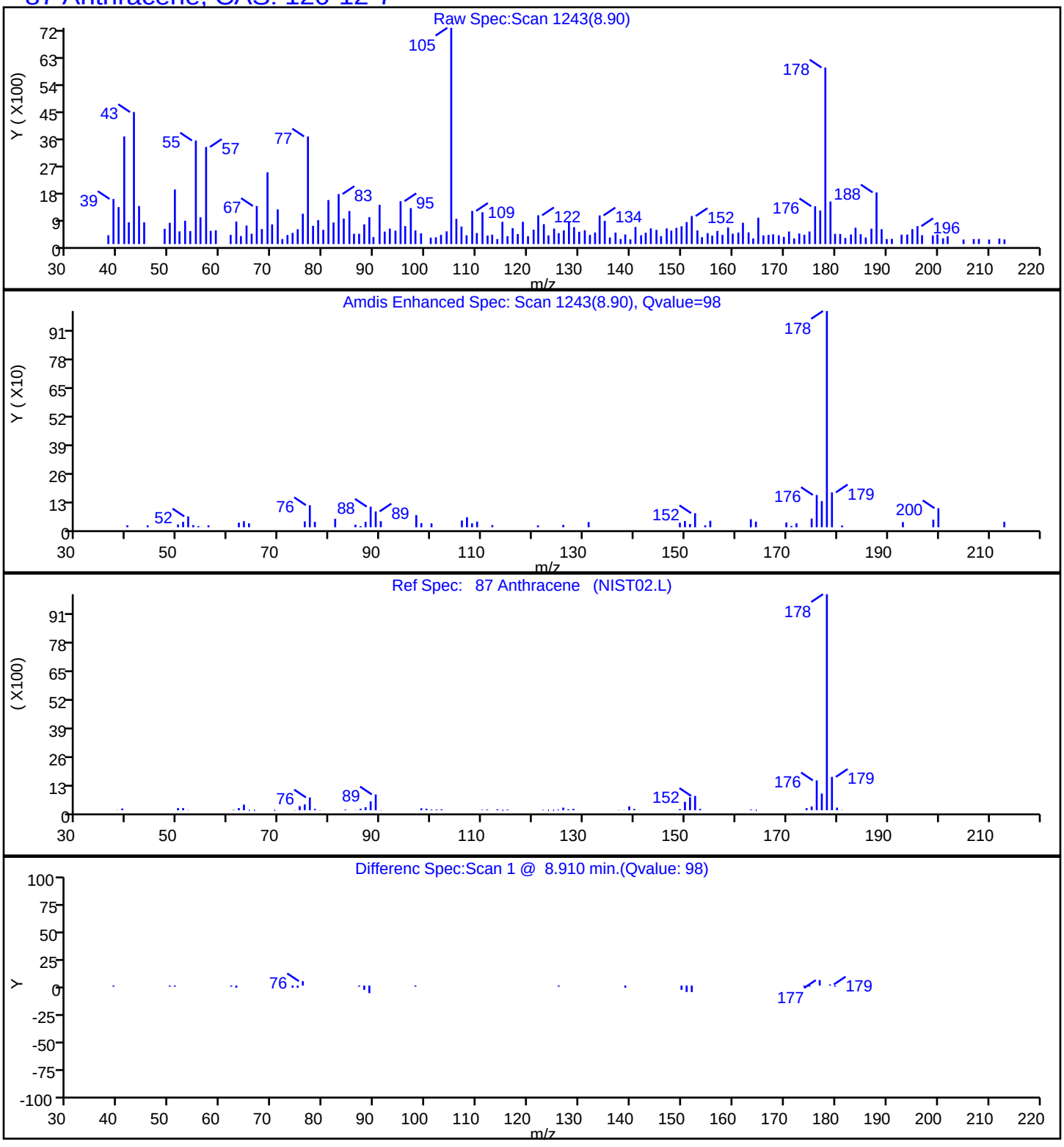
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 Anthracene, CAS: 120-12-7



Report Date: 22-Mar-2018 15:54:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

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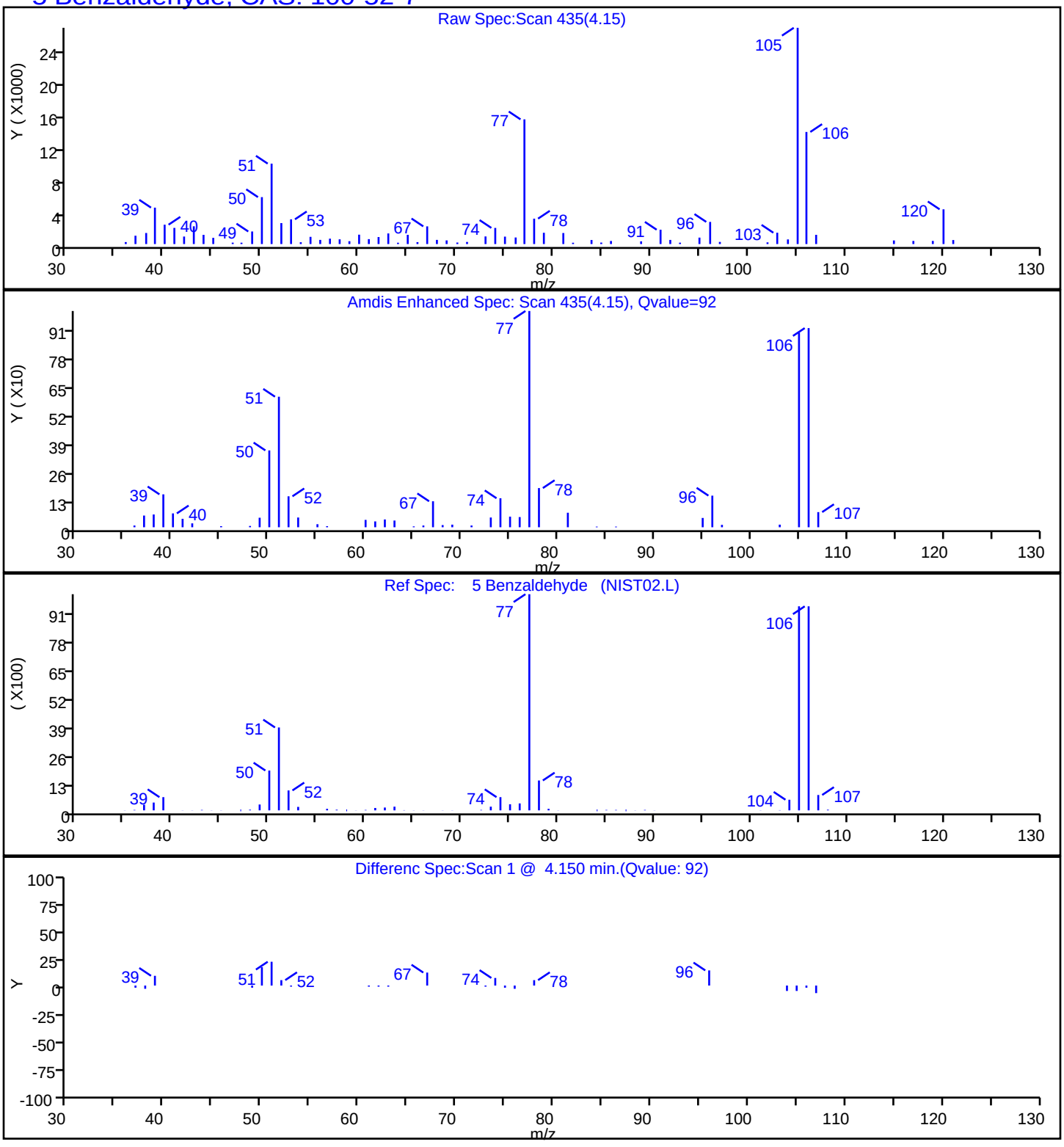
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

5 Benzaldehyde, CAS: 100-52-7



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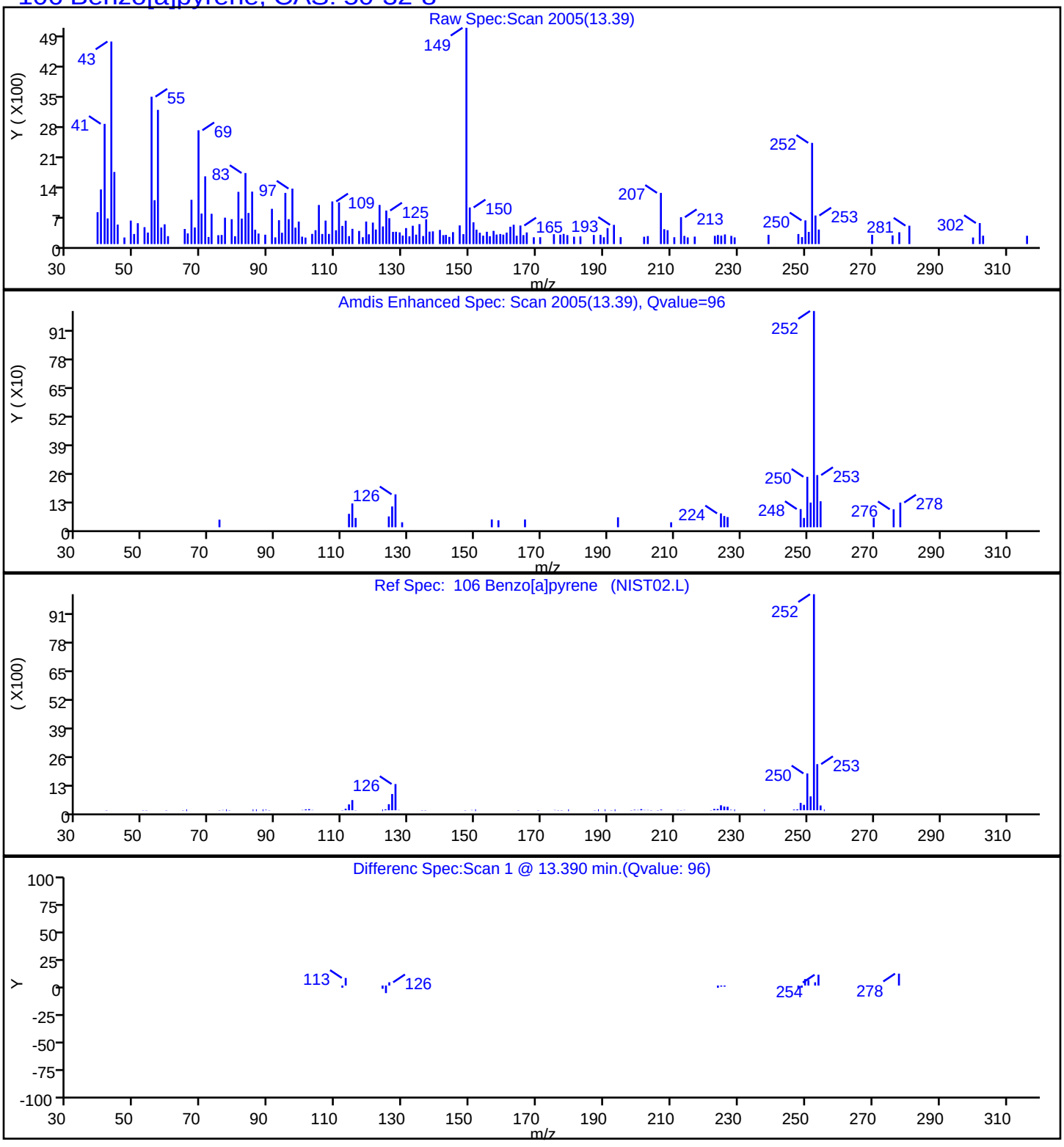
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



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TestAmerica Edison

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Client ID:	Ash Pit				
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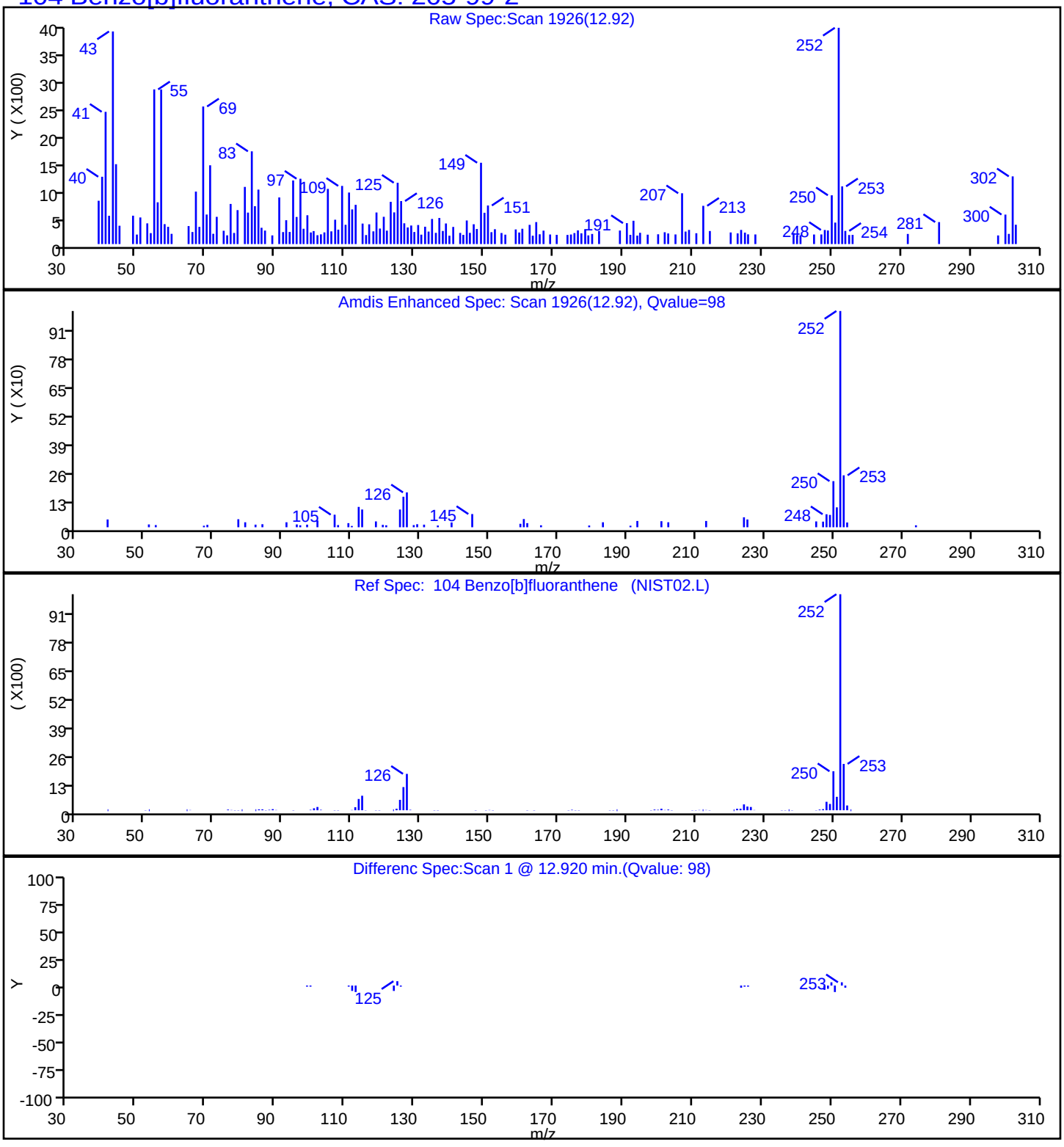
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



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TestAmerica Edison

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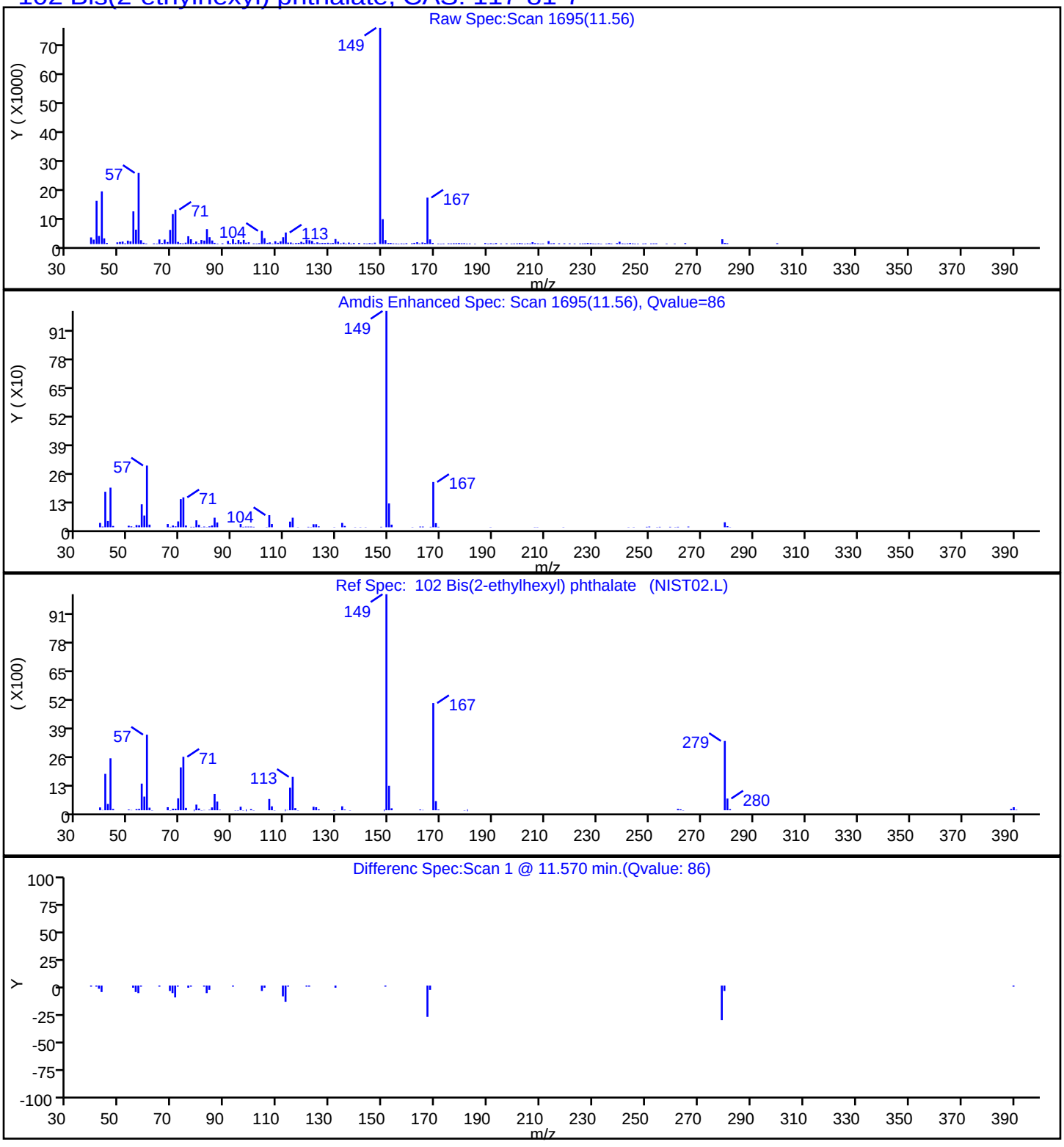
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

102 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
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Client ID:	Ash Pit				
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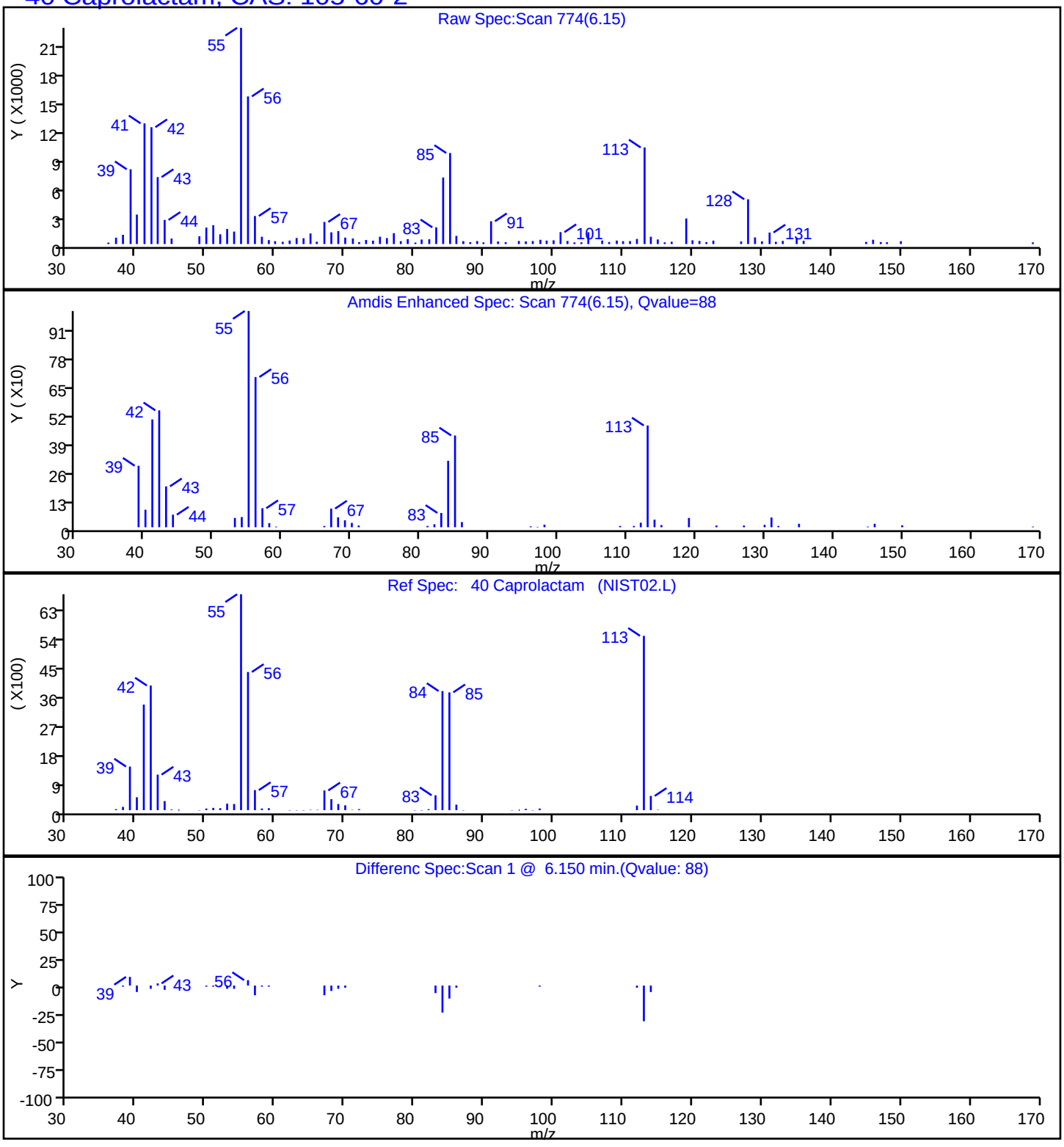
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

40 Caprolactam, CAS: 105-60-2



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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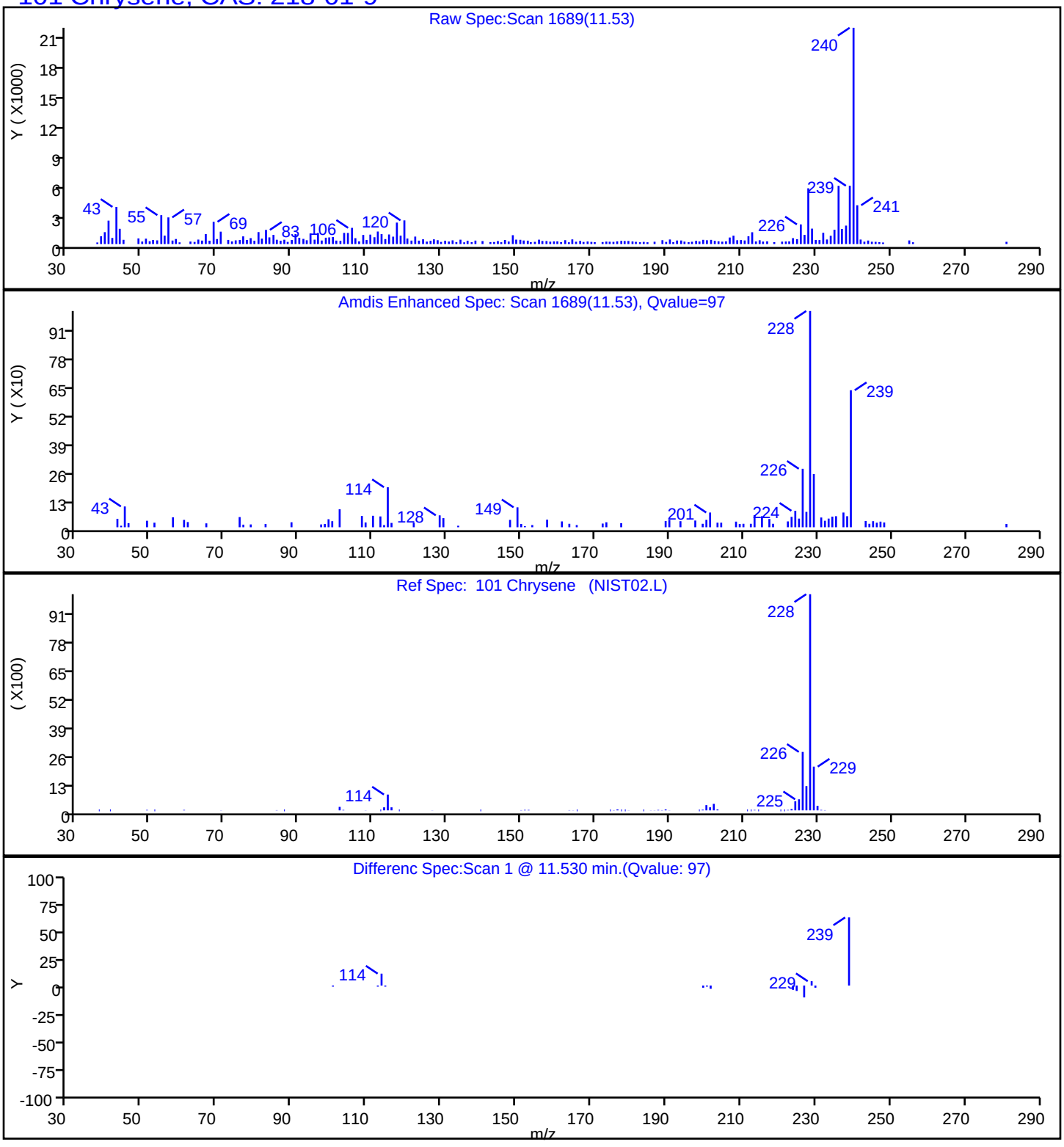
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

101 Chrysene, CAS: 218-01-9



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
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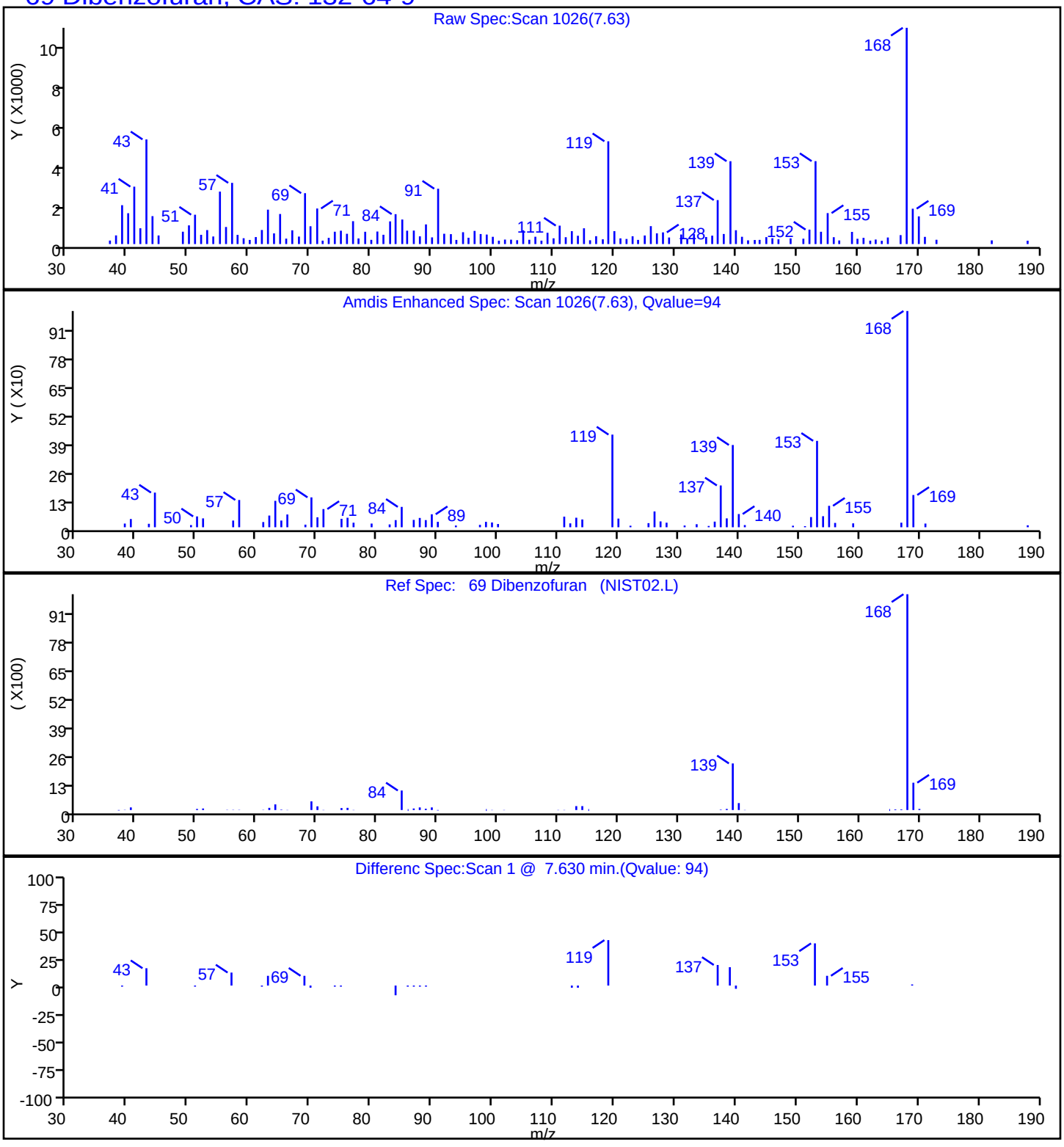
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

69 Dibenzofuran, CAS: 132-64-9



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TestAmerica Edison

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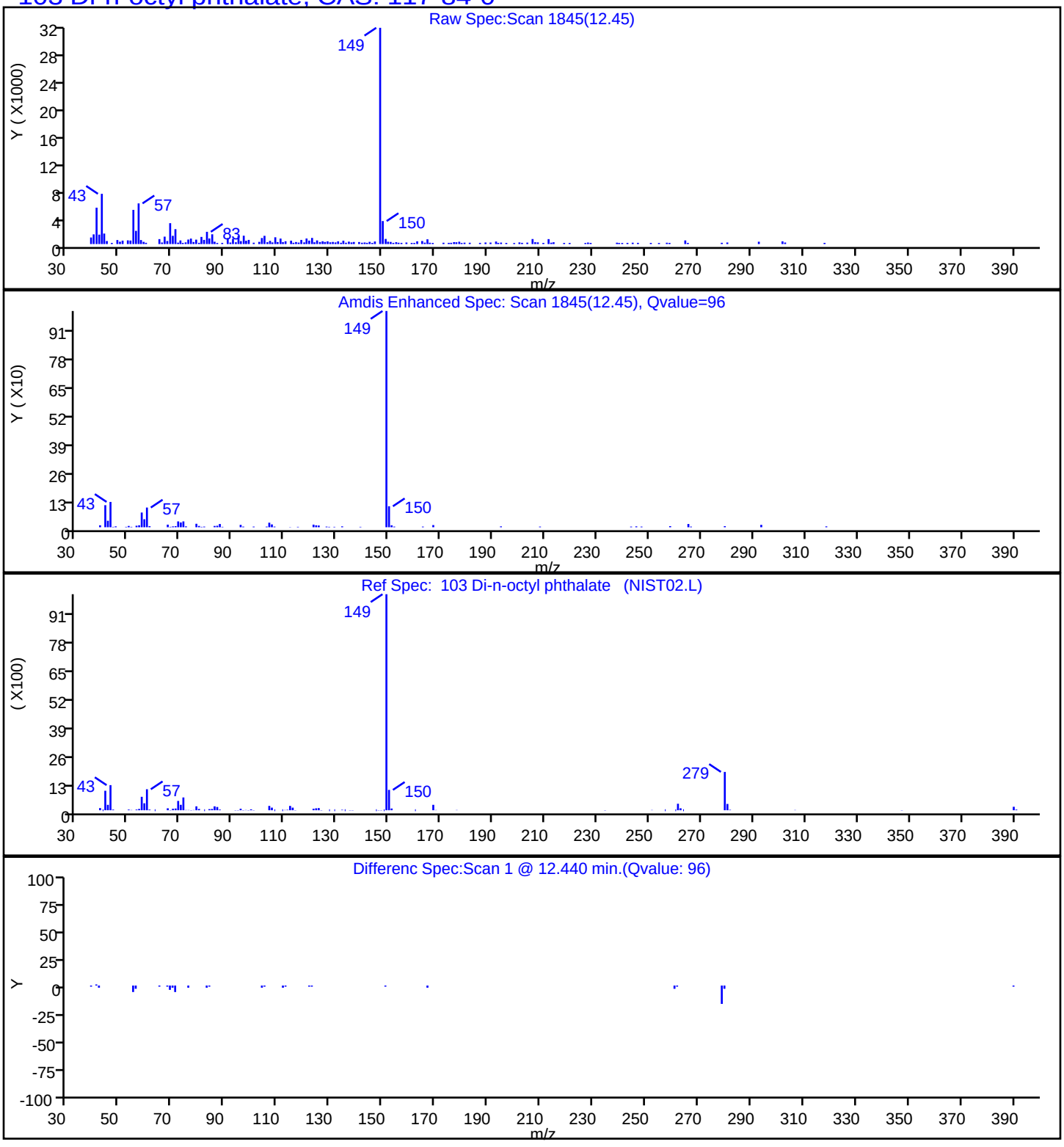
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

103 Di-n-octyl phthalate, CAS: 117-84-0



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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
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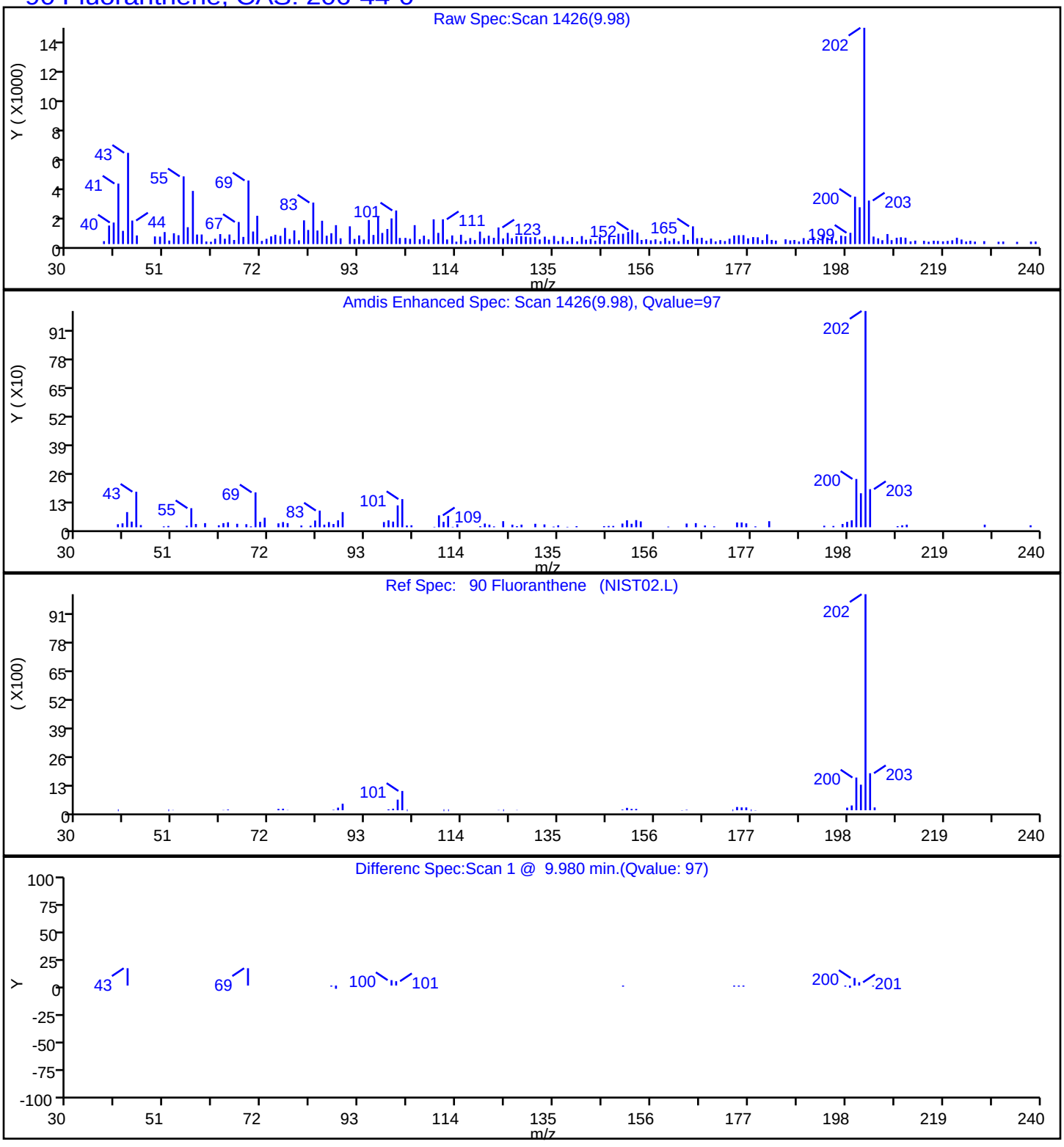
90 Fluoranthene, CAS: 206-44-0



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
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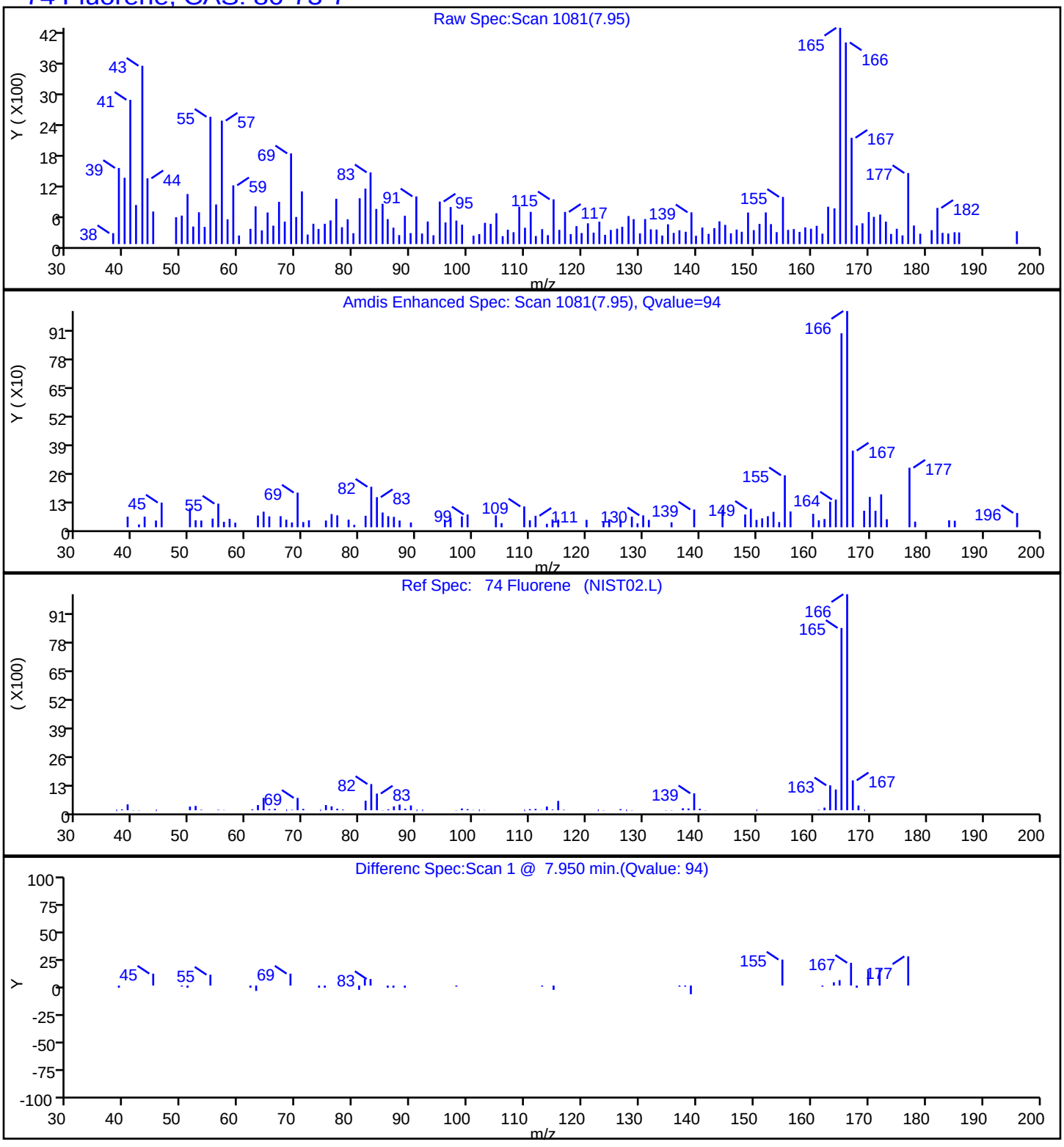
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

74 Fluorene, CAS: 86-73-7



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TestAmerica Edison

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Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
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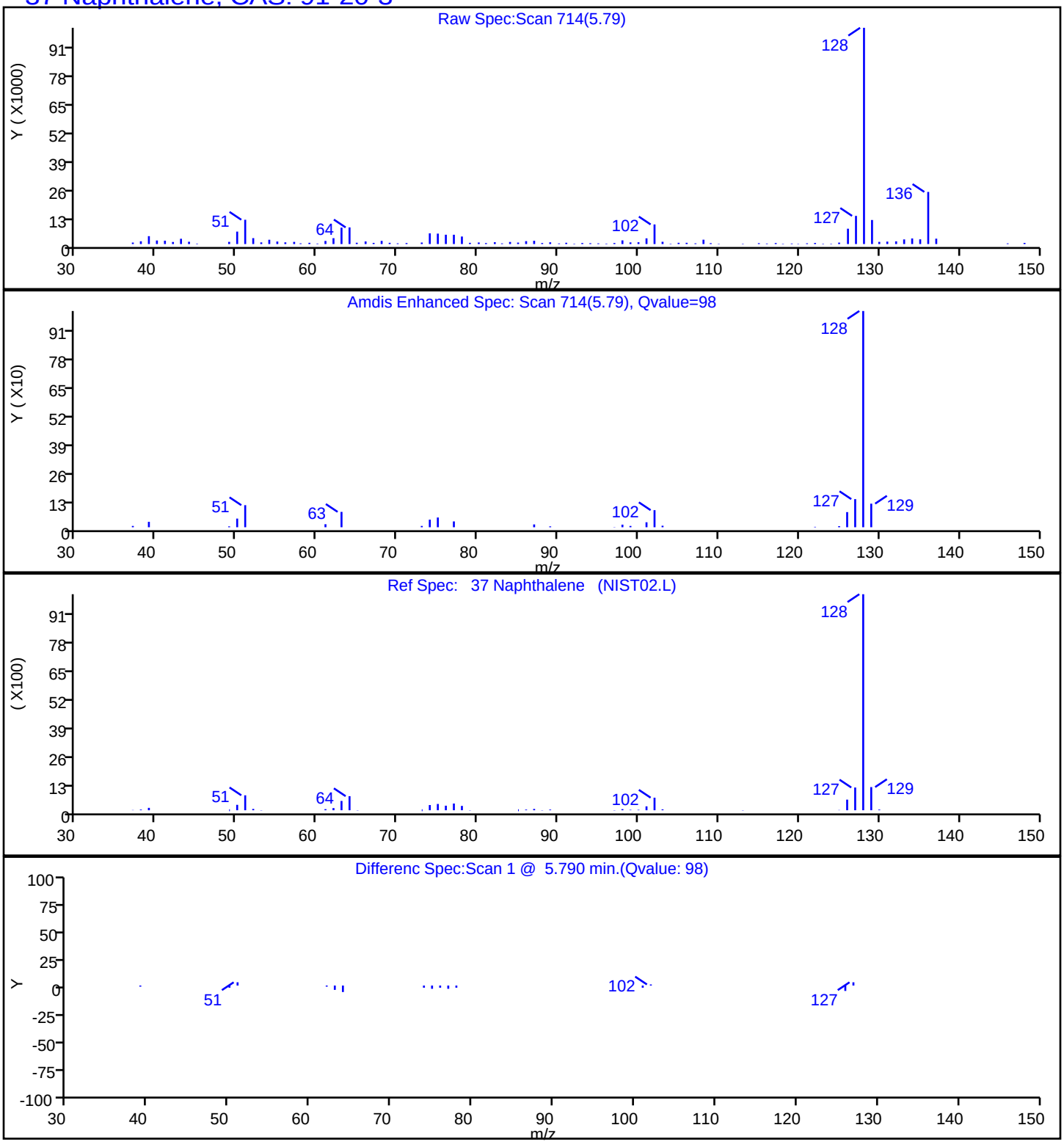
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

37 Naphthalene, CAS: 91-20-3



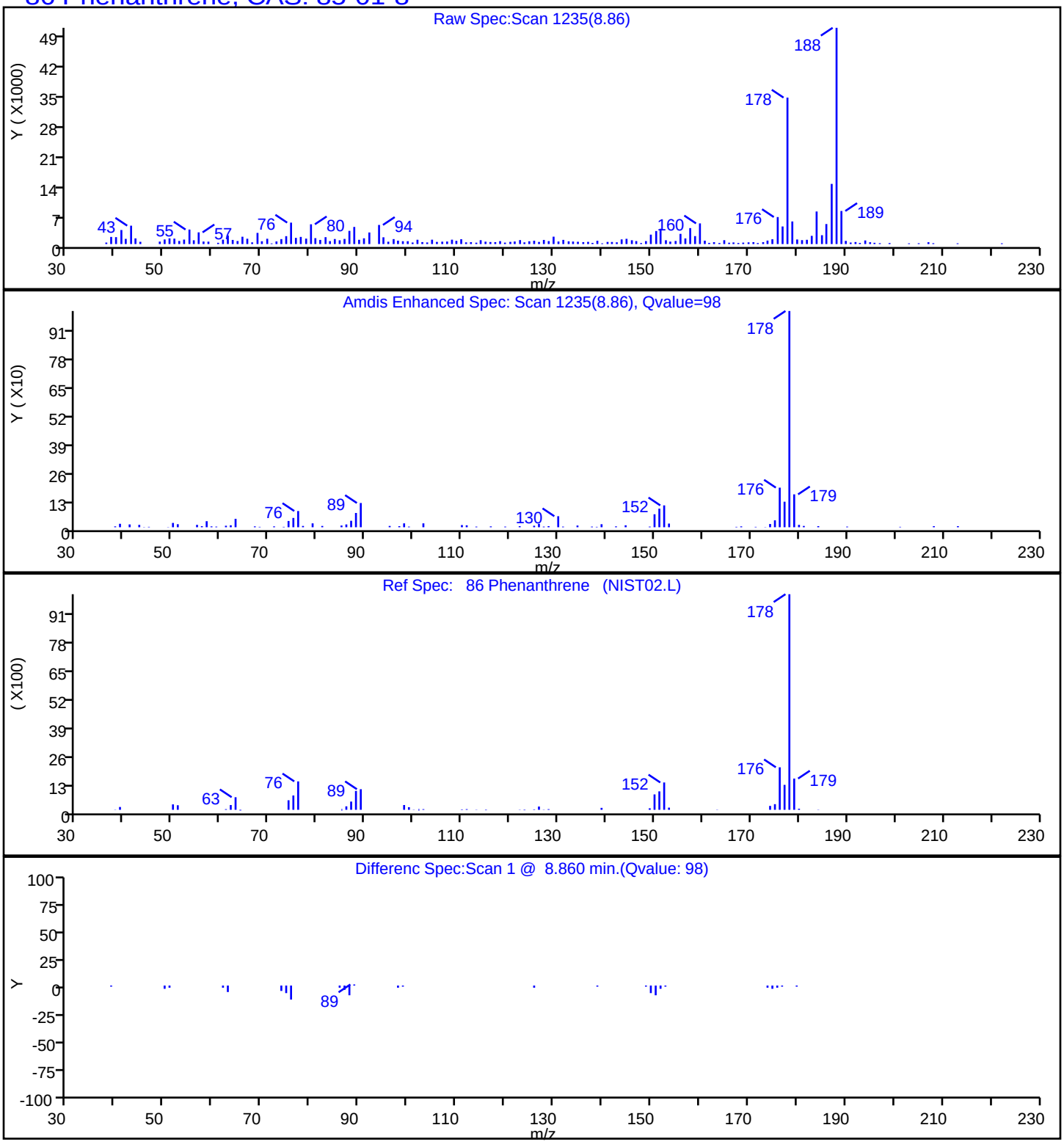
Report Date: 22-Mar-2018 15:54:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

86 Phenanthrene, CAS: 85-01-8



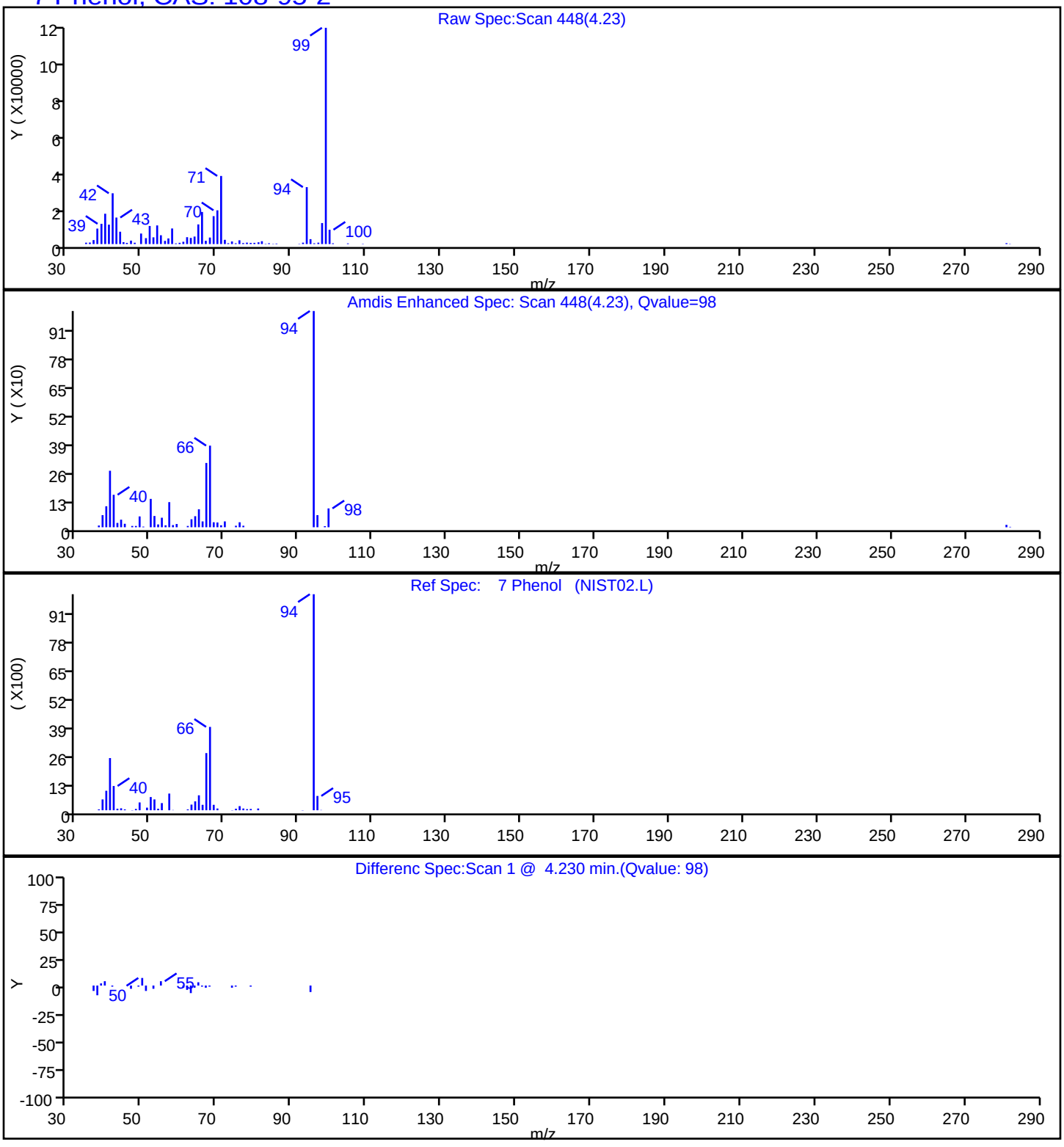
Report Date: 22-Mar-2018 15:54:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Phenol, CAS: 108-95-2

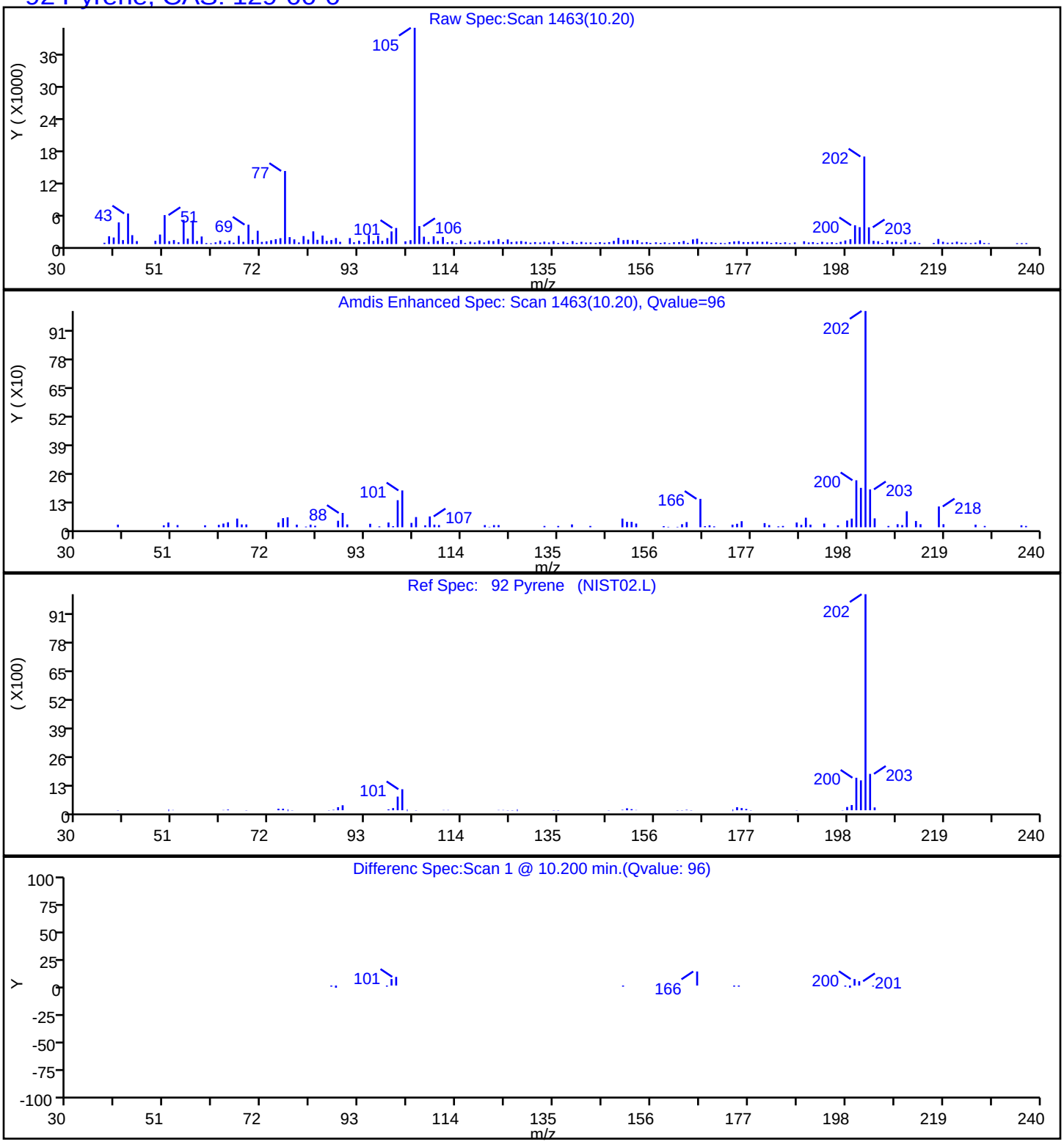


Report Date: 22-Mar-2018 15:54:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

92 Pyrene, CAS: 129-00-0



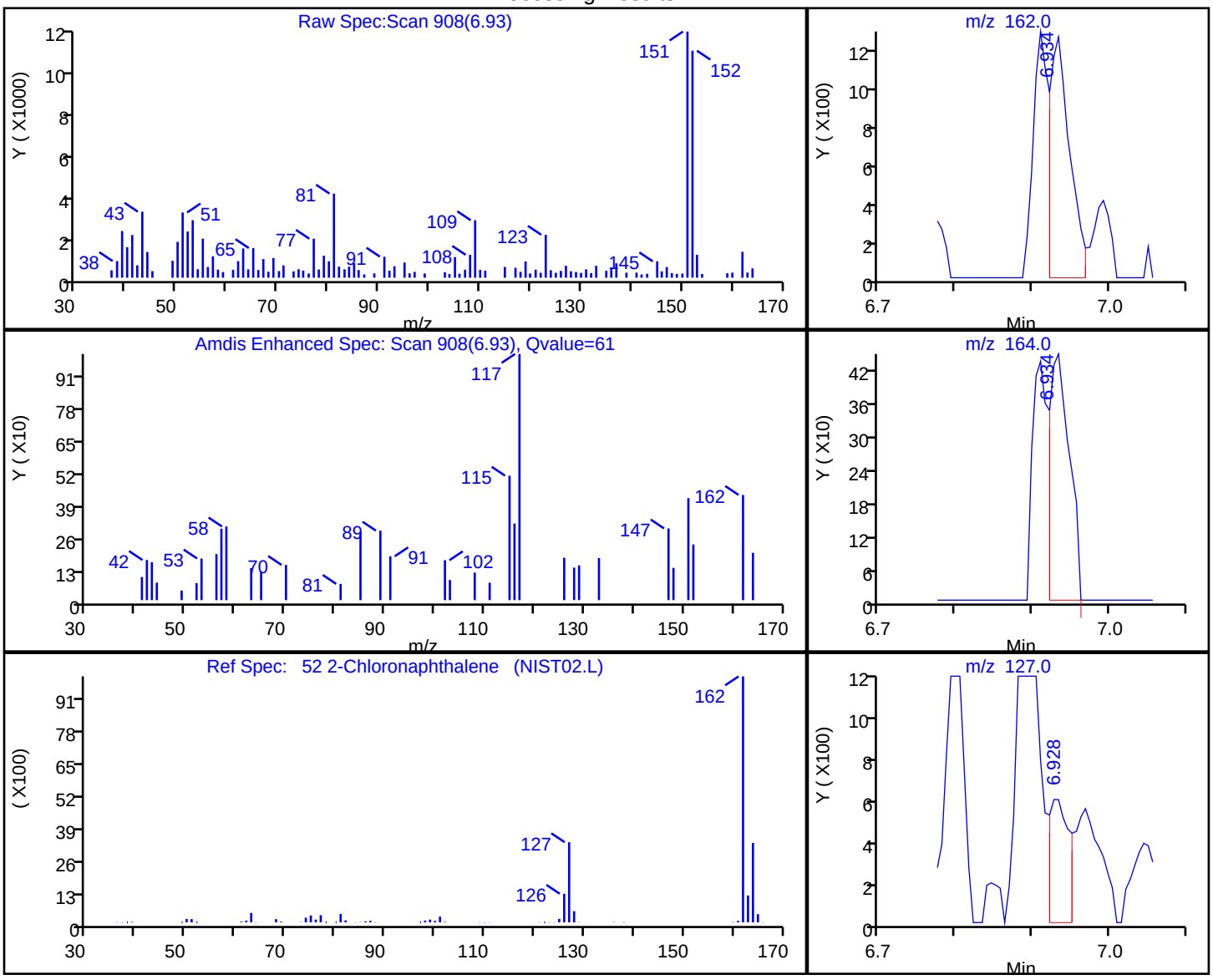
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 2-Chloronaphthalene, CAS: 91-58-7

Processing Results



RT	Mass	Response	Amount
6.93	162.00	2247	0.160656
6.93	164.00	795	
6.93	127.00	1040	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

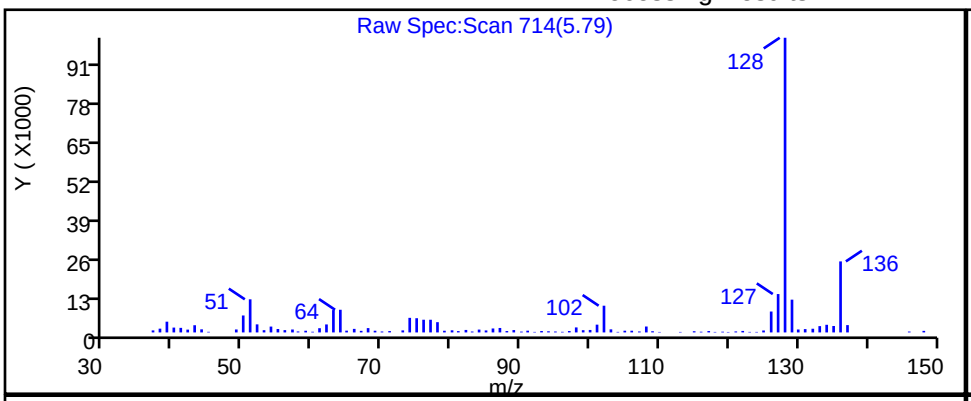
User Disabled Compound Report

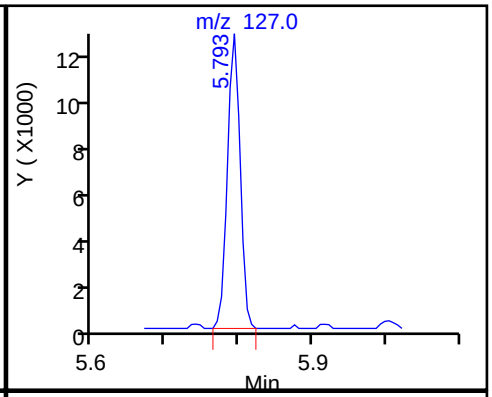
TestAmerica Edison

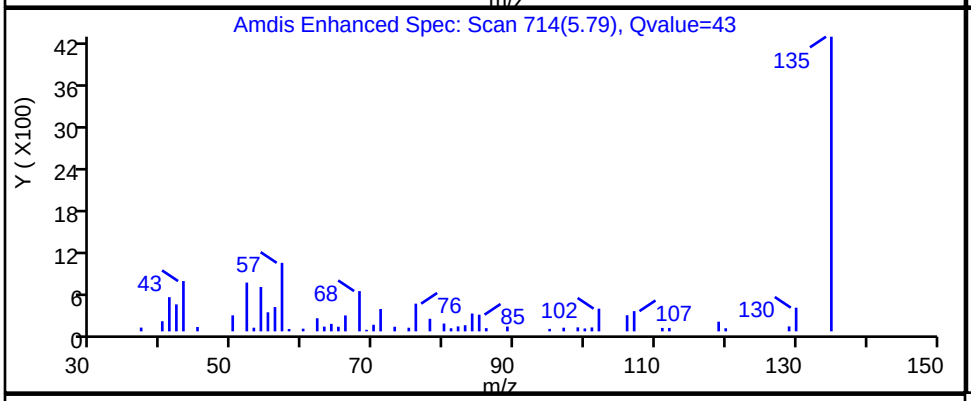
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

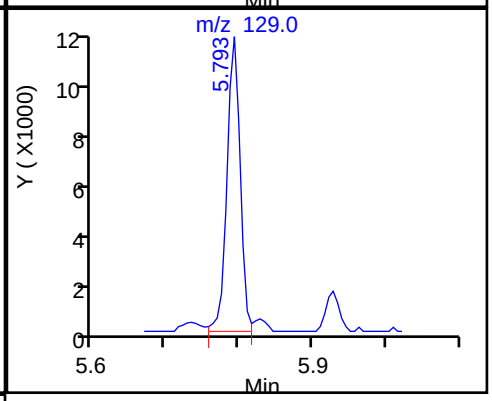
38 4-Chloroaniline, CAS: 106-47-8

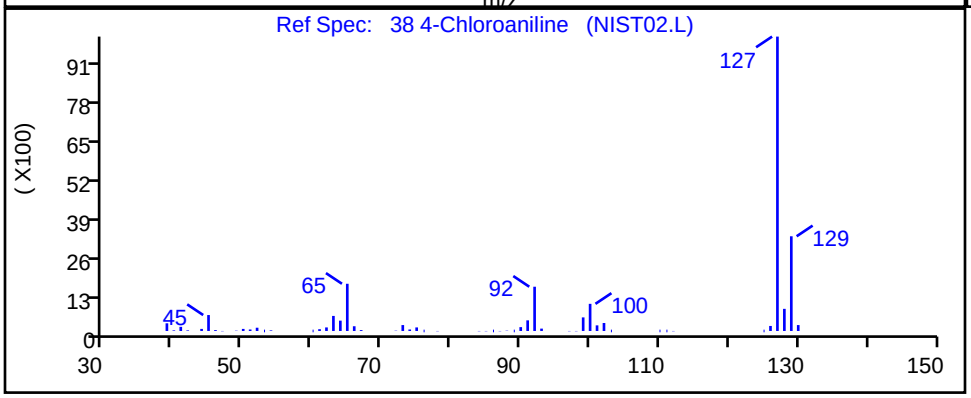
Processing Results











RT	Mass	Response	Amount
5.79	127.00	15657	1.651665
5.79	129.00	13855	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

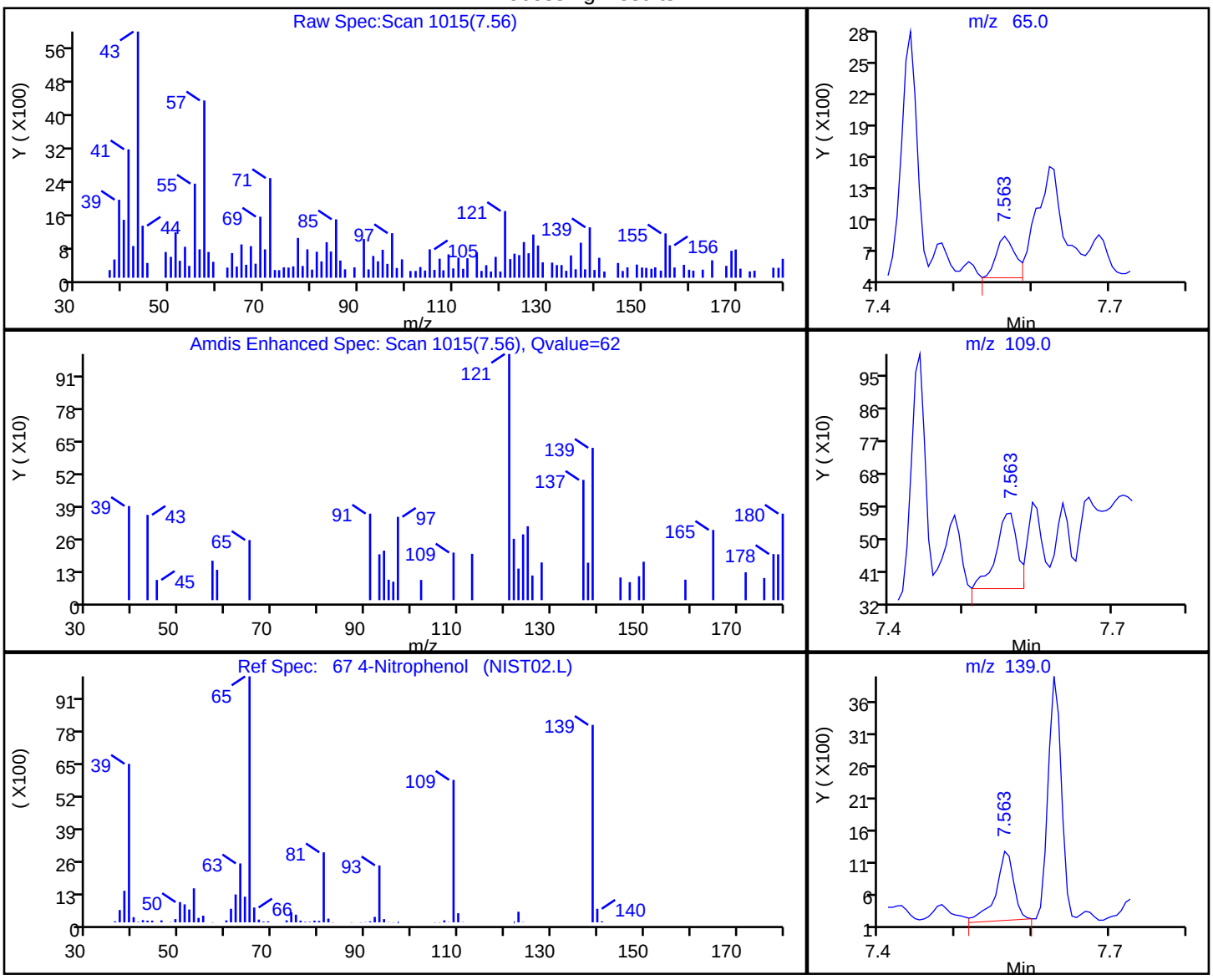
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

67 4-Nitrophenol, CAS: 100-02-7

Processing Results



RT	Mass	Response	Amount
7.56	65.00	675	0.214847
7.56	109.00	428	
7.56	139.00	1771	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

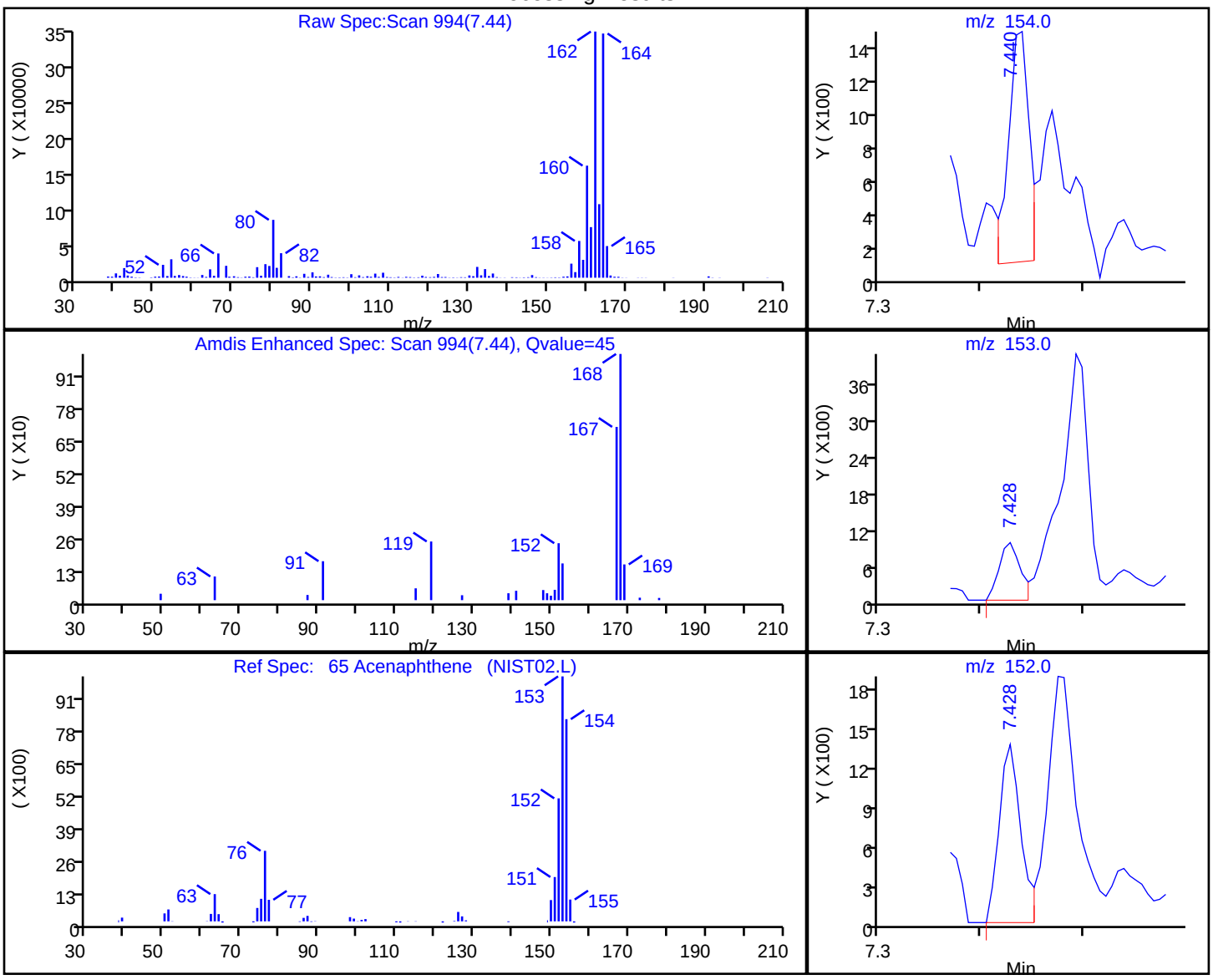
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

65 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
7.44	154.00	1919	0.133406
7.43	153.00	1364	
7.43	152.00	2000	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

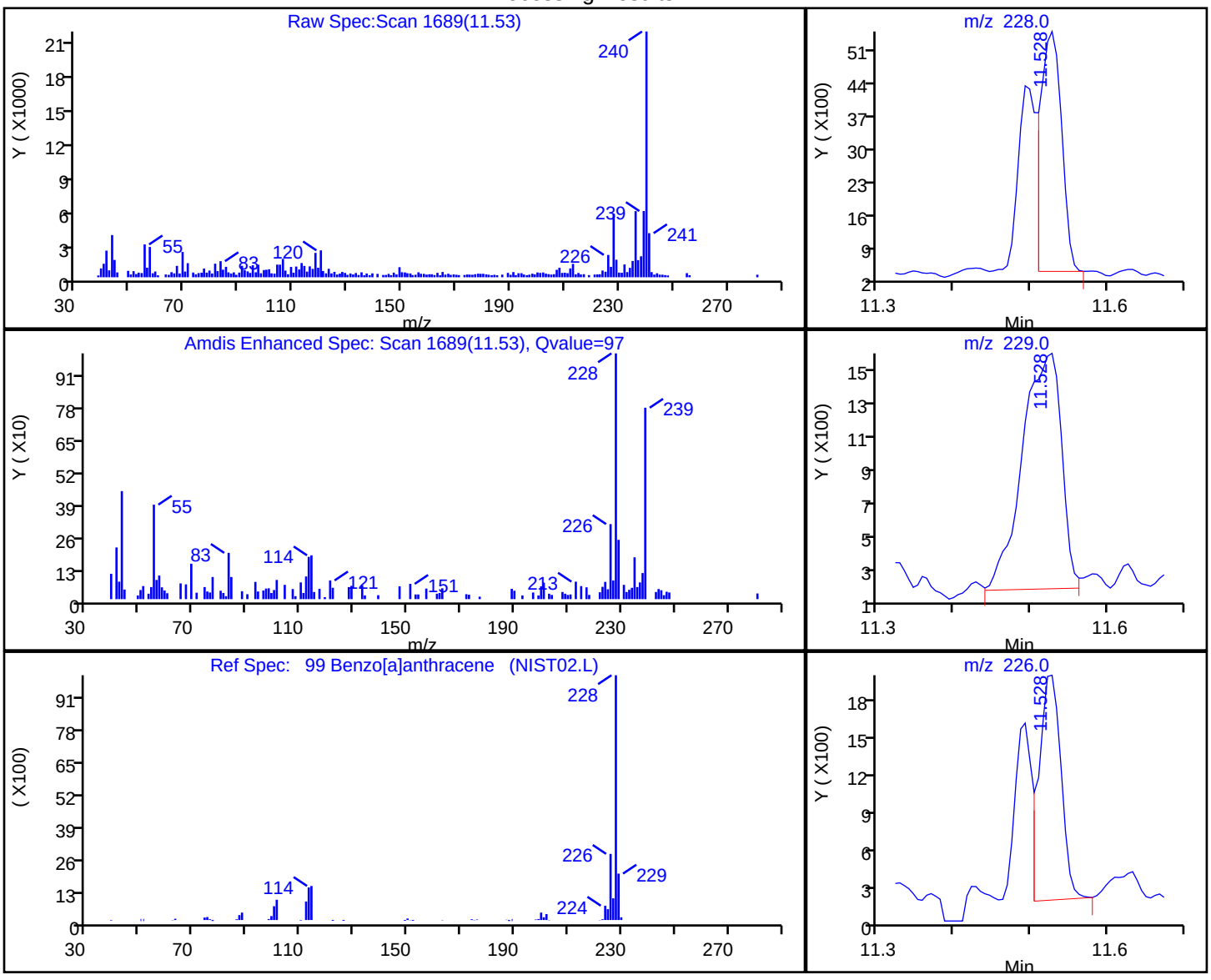
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
11.53	228.00	9830	0.476585
11.53	229.00	4491	
11.53	226.00	3566	

Reviewer: asfawa, 22-Mar-2018 15:54:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

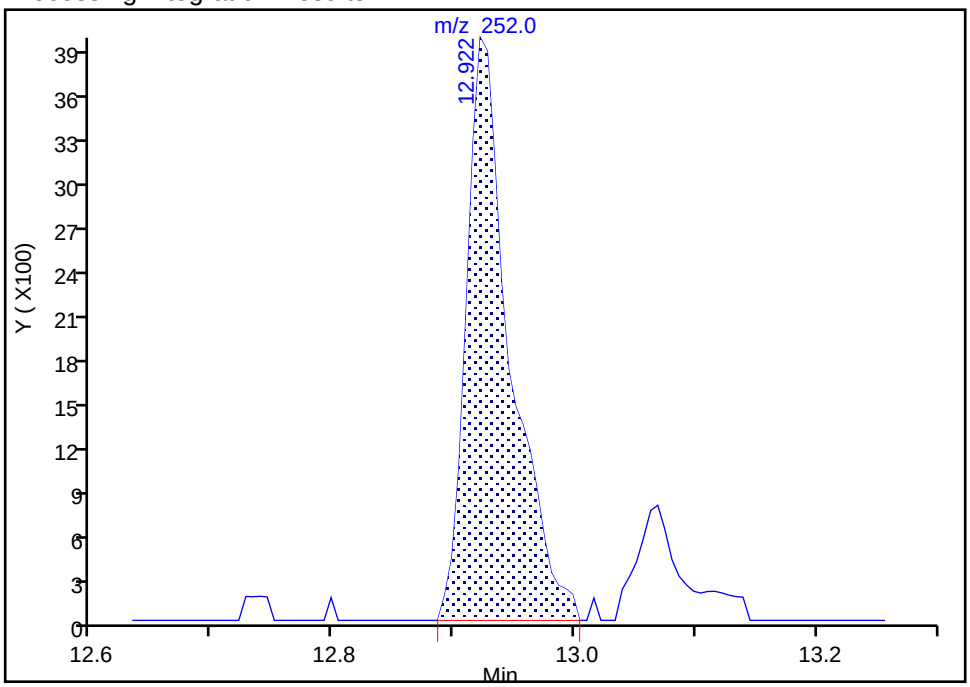
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

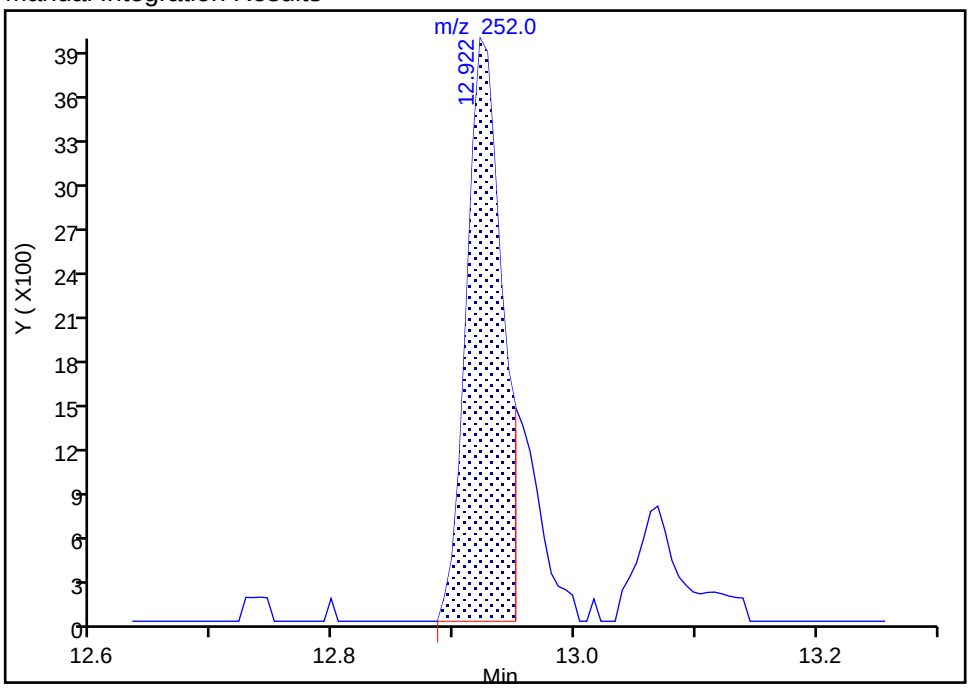
Processing Integration Results

RT: 12.92
Area: 9891
Amount: 0.492316
Amount Units: ug/ml



Manual Integration Results

RT: 12.92
Area: 8178
Amount: 0.407053
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:16:19

Audit Action: Manually Integrated Audit Reason: Shouldering

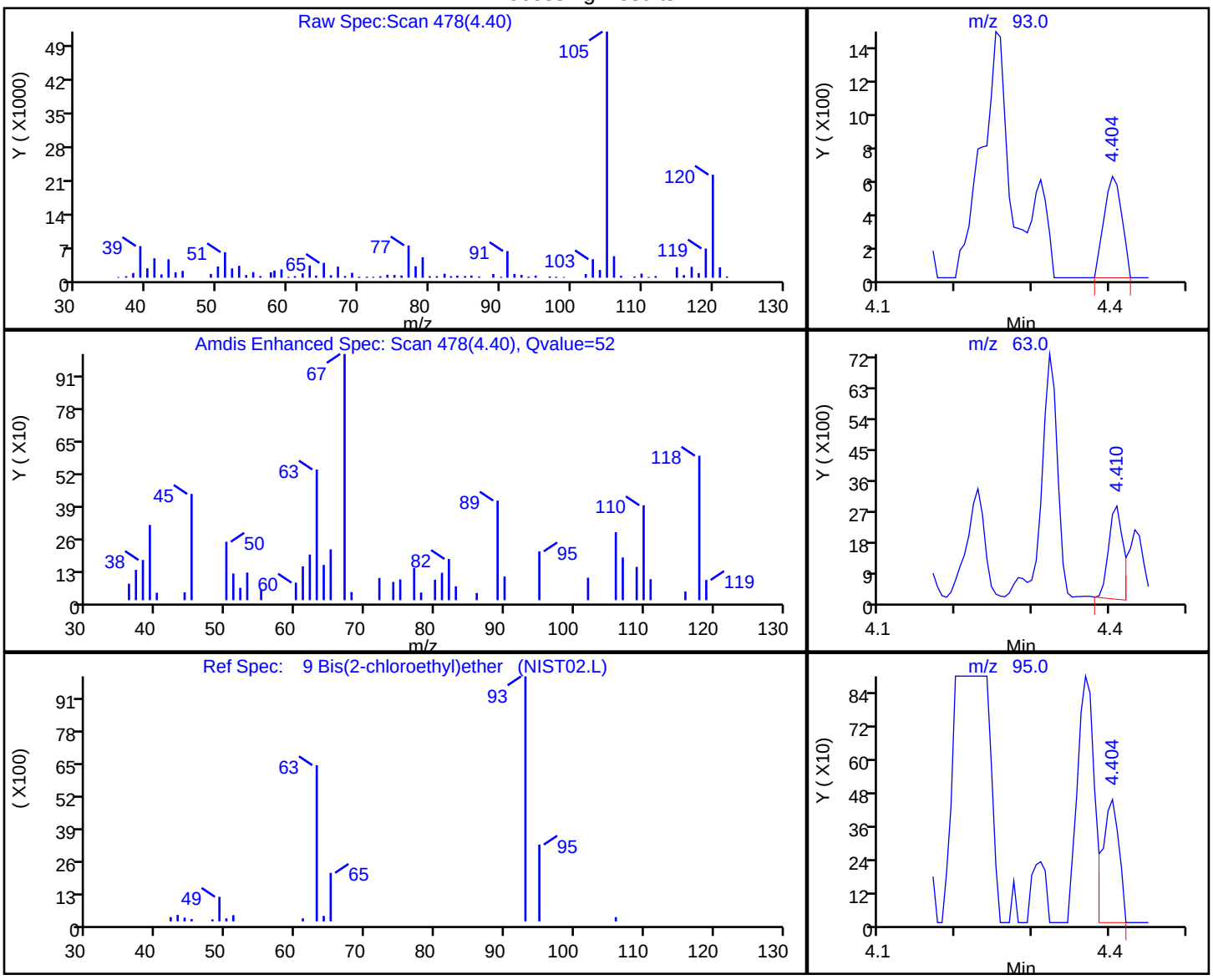
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 Bis(2-chloroethyl)ether, CAS: 111-44-4

Processing Results



RT	Mass	Response	Amount
4.40	93.00	954	0.130200
4.41	63.00	3550	
4.40	95.00	675	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

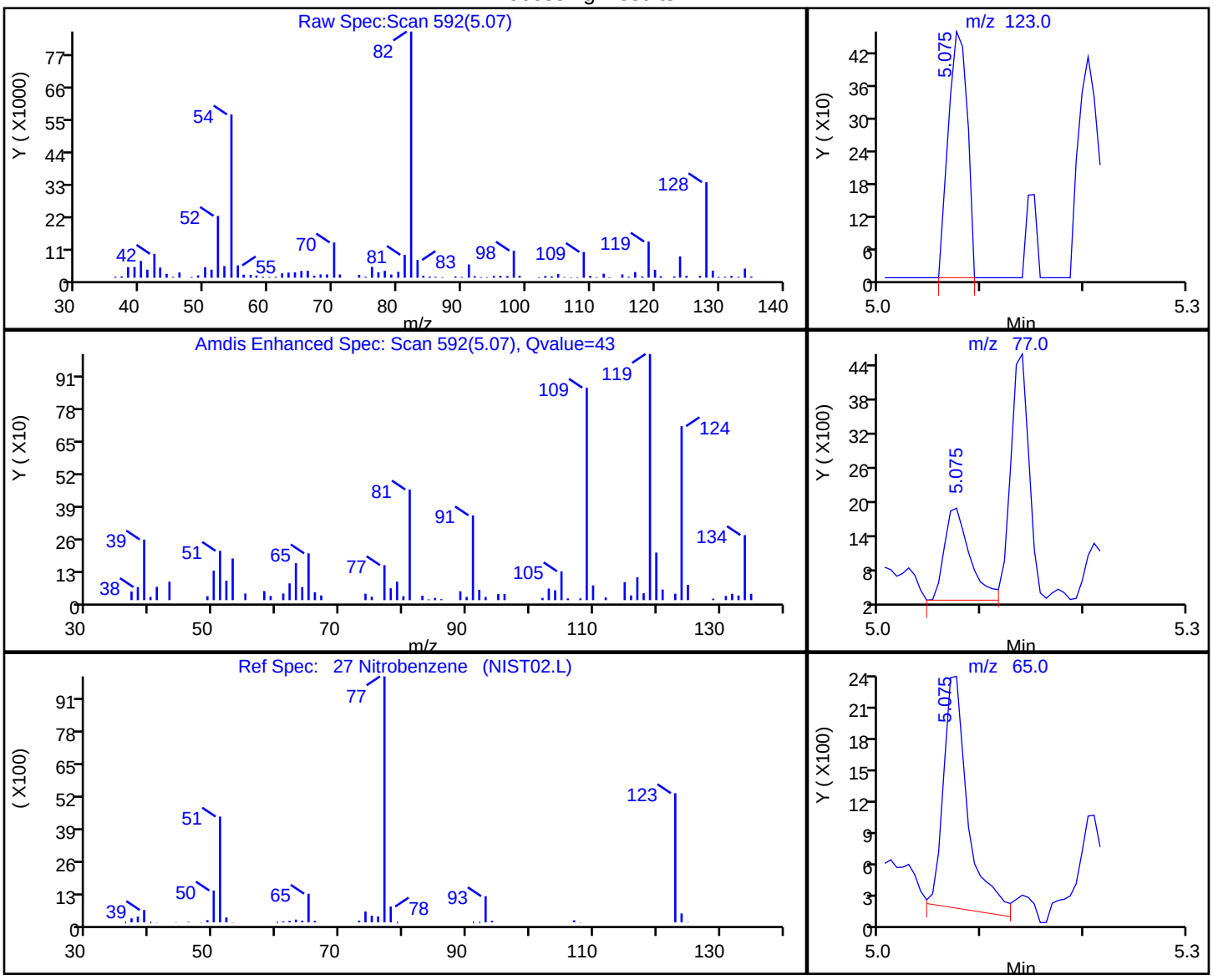
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d				
Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

27 Nitrobenzene, CAS: 98-95-3

Processing Results



RT	Mass	Response	Amount
5.07	123.00	592	0.164925
5.07	77.00	2770	
5.07	65.00	3651	

Reviewer: croccom, 22-Mar-2018 14:17:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

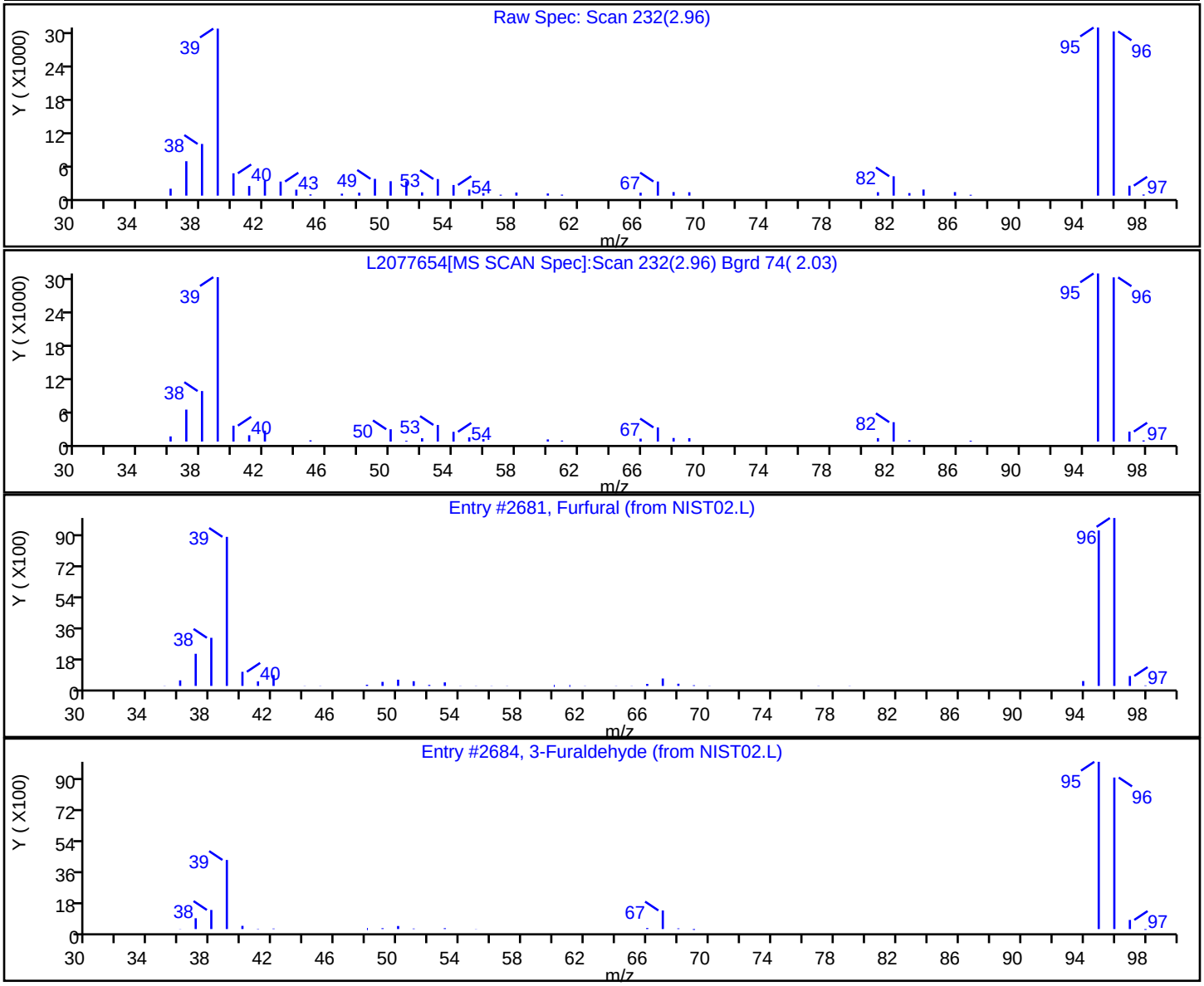
Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Furfural	98-01-1	NIST02.L	2681	C5H4O2	96	95
3-Furaldehyde	498-60-2	NIST02.L	2684	C5H4O2	96	91



Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date: 22-Mar-2018 12:38:30 Instrument ID: CBNAMS12

Lims ID: 460-152136-E-2-G Lab Sample ID: 460-152136-2

Client ID: Ash Pit

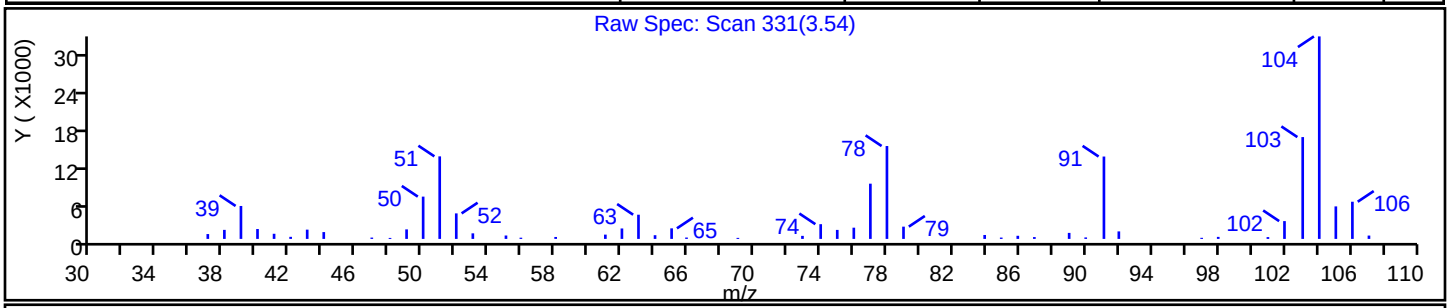
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12

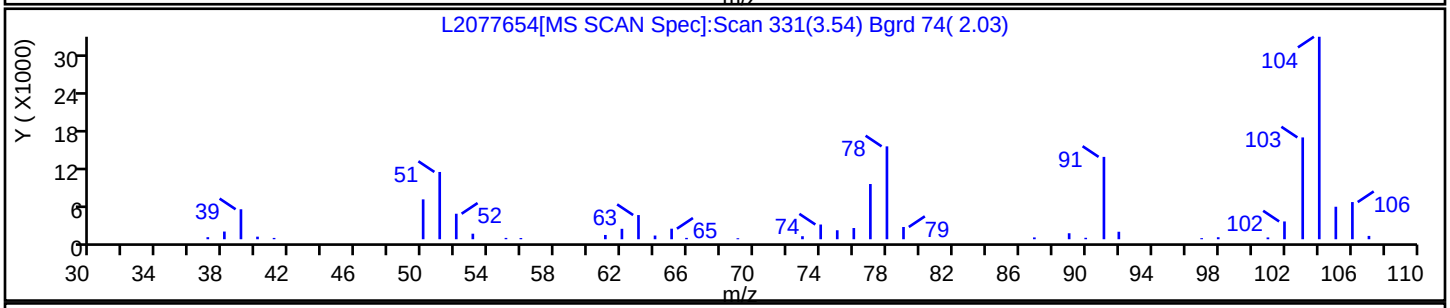
Injection Vol: 1.0 ul Dil. Factor: 1.0000

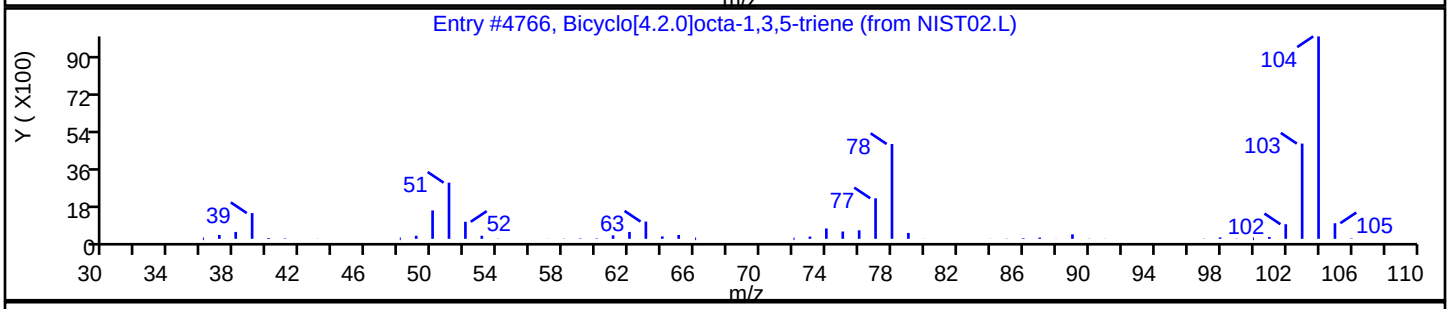
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

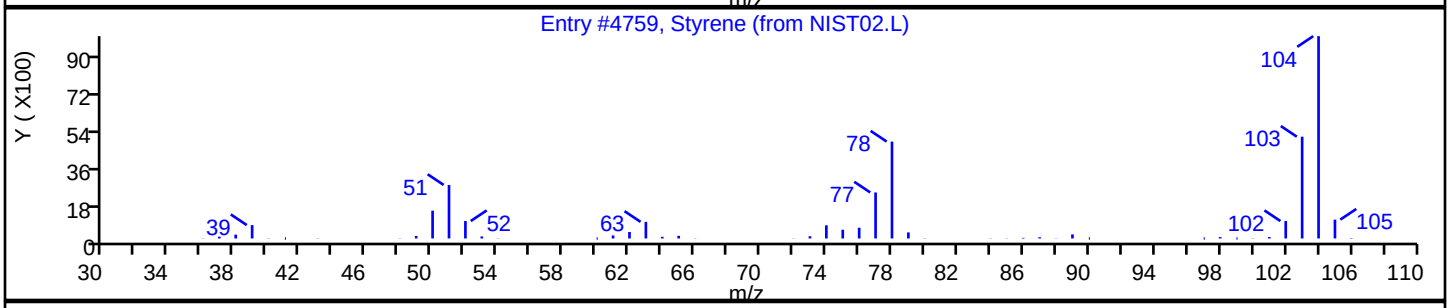
Column: Detector MS SCAN

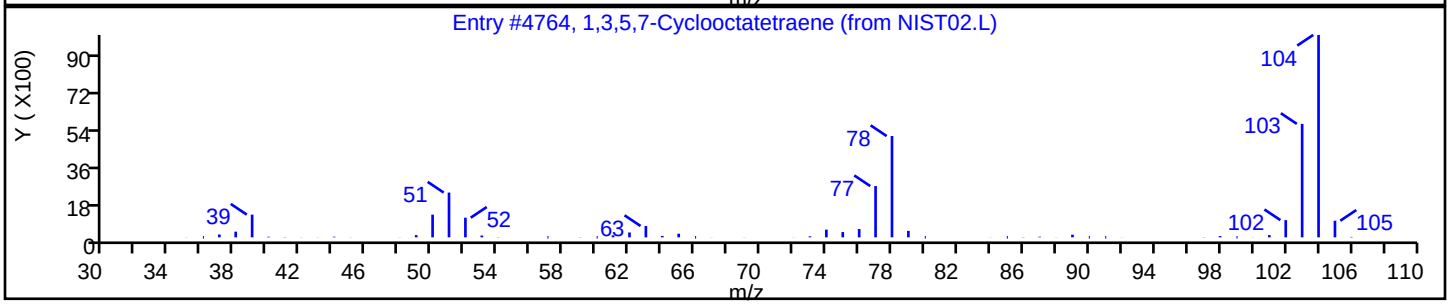
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Bicyclo[4.2.0]octa-1,3,5-triene	694-87-1	NIST02.L	4766	C8H8	104	96
Styrene	100-42-5	NIST02.L	4759	C8H8	104	95
1,3,5,7-Cyclooctatetraene	629-20-9	NIST02.L	4764	C8H8	104	90











Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date: 22-Mar-2018 12:38:30 Instrument ID: CBNAMS12

Lims ID: 460-152136-E-2-G Lab Sample ID: 460-152136-2

Client ID: Ash Pit

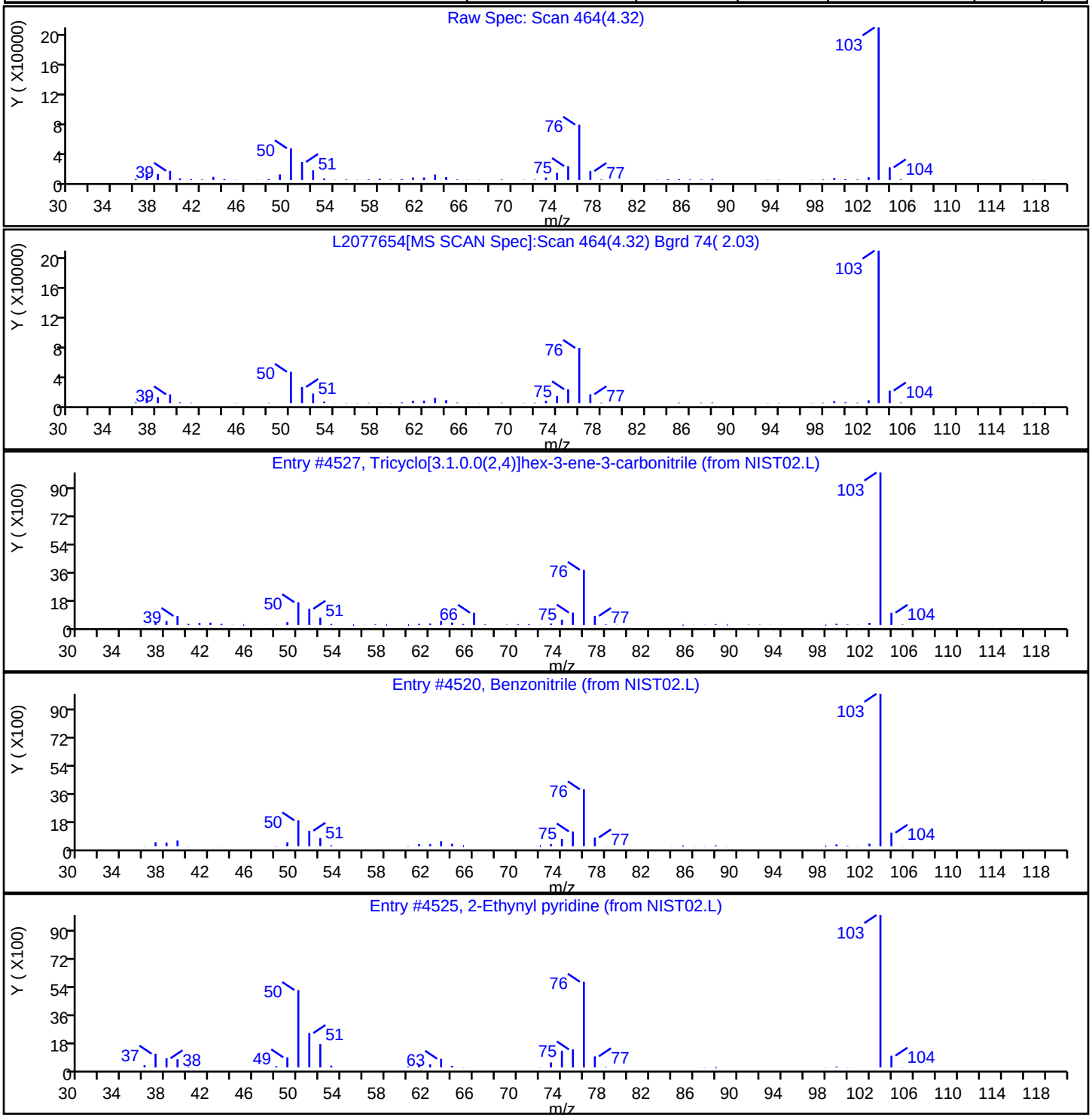
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-carbonitrile	103495-51-8	NIST02.L	4527	C7H5N	103	95
Benzonitrile	100-47-0	NIST02.L	4520	C7H5N	103	94
2-Ethynyl pyridine	1945-84-2	NIST02.L	4525	C7H5N	103	90



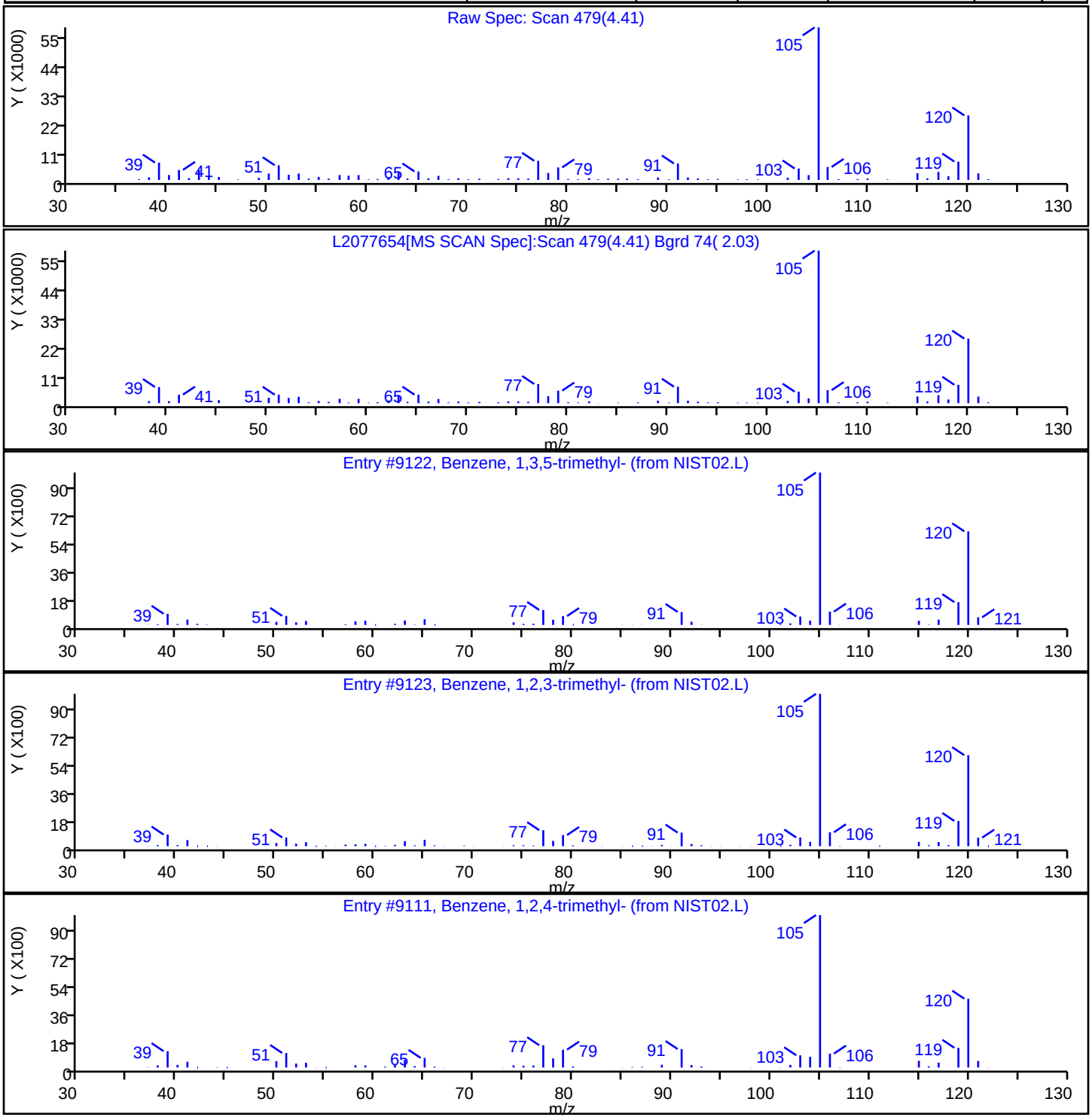
Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST02.L	9122	C9H12	120	97
Benzene, 1,2,3-trimethyl-	526-73-8	NIST02.L	9123	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST02.L	9111	C9H12	120	94



Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date: 22-Mar-2018 12:38:30 Instrument ID: CBNAMS12

Lims ID: 460-152136-E-2-G Lab Sample ID: 460-152136-2

Client ID: Ash Pit

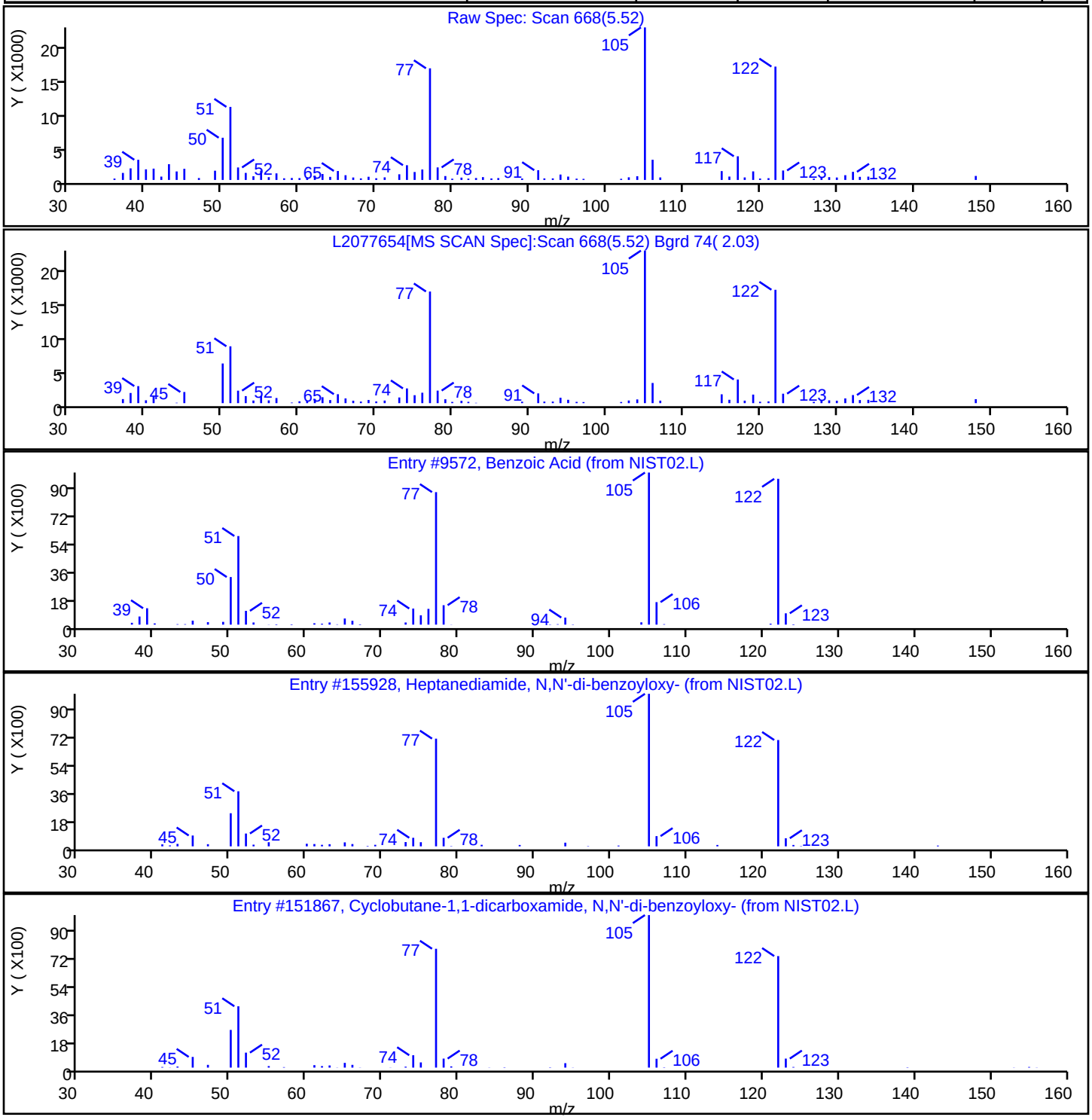
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzoic Acid	65-85-0	NIST02.L	9572	C7H6O2	122	94
Heptanediamide, N,N'-di-benzoyloxy-	1000253-26-4	NIST02.L	155928	C21H22N2O6	398	87
Cyclobutane-1,1-dicarboxamide, N,N'-di-benzoylox	1000253-25-3	NIST02.L	151867	C20H18N2O6	382	86



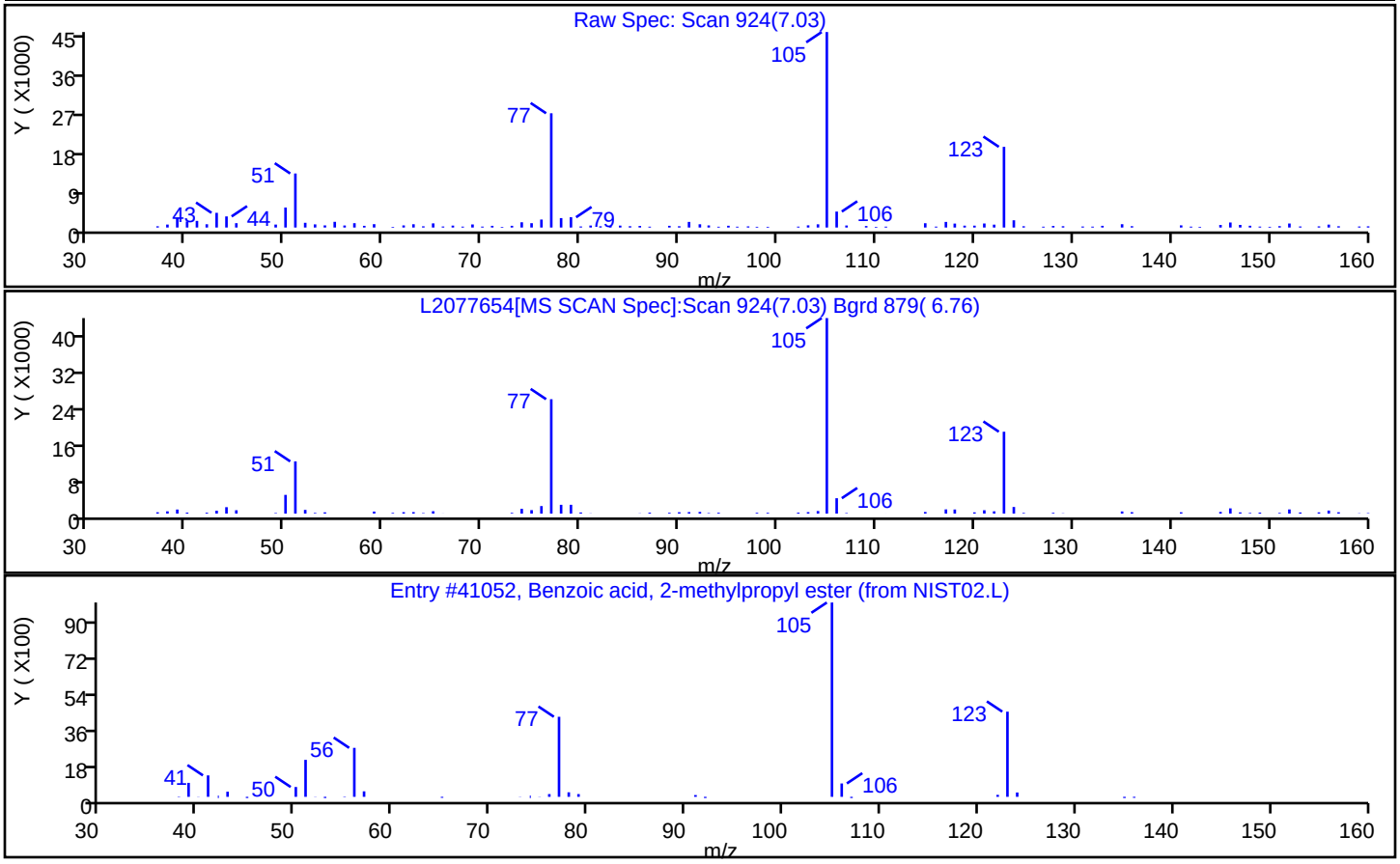
Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown						
Benzoic acid, 2-methylpropyl ester	120-50-3	NIST02.L	41052	C11H14O2	178	83



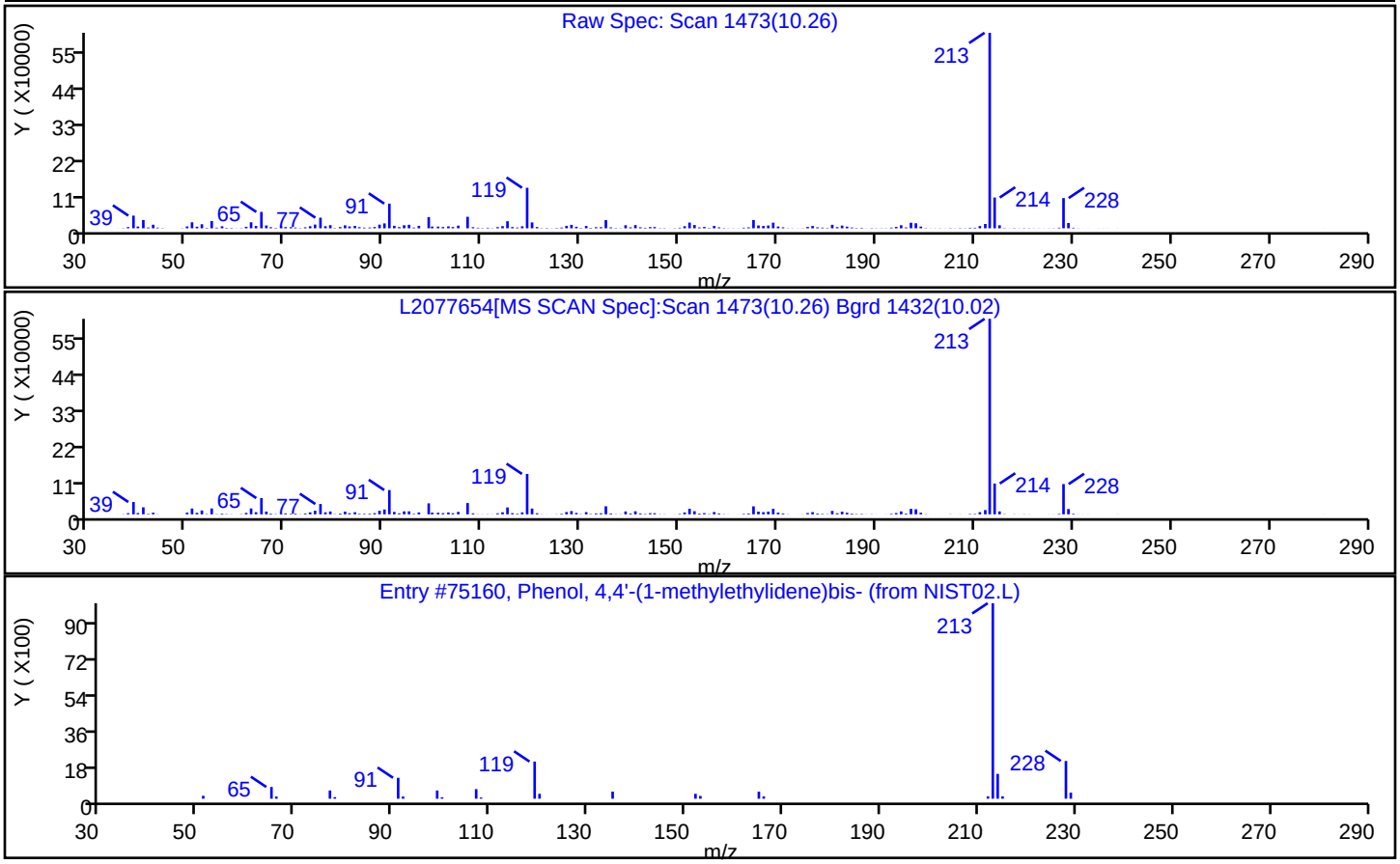
Report Date: 22-Mar-2018 15:54:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077654.d

Injection Date:	22-Mar-2018 12:38:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152136-E-2-G	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7	NIST02.L	75160	C15H16O2	228	96



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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-503804/10	L2077534.d
Level 2	STD1 460-503804/9	L2077533.d
Level 3	STD2 460-503804/8	L2077532.d
Level 4	STD5 460-503804/7	L2077531.d
Level 5	STD10 460-503804/6	L2077530.d
Level 6	STD20 460-503804/5	L2077529.d
Level 7	ICIS 460-503804/2	L2077526.d
Level 8	STD80 460-503804/4	L2077528.d
Level 9	STD120 460-503804/3	L2077527.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.4816	0.5019	0.5511	0.5741 0.5388	0.4972	Ave		0.5241				6.9		20.0			
N-Nitrosodimethylamine	0.8204	0.8750	0.9568	0.8999 0.9445	0.8387	Ave		0.8892				6.2		20.0			
Pyridine	1.4269	1.5081	1.6614	1.4717 1.6250	1.4218	Ave		1.5192				6.7		20.0			
Phenol	1.5739	1.7107	2.0095	1.7535 1.9947	1.6399	Ave		1.7804			0.8000	10.2		20.0			
Aniline	1.9725	2.1418	2.3382	2.1461 2.3189	2.0326	Ave		2.1583				6.8		20.0			
Bis(2-chloroethyl)ether	1.3929 1.2234	1.3184 1.2908	1.3399 1.4122	1.3731 1.4000	1.2475	Ave		1.3332			0.7000	5.1		20.0			
2-Chlorophenol	1.2728	1.3731	1.5071	1.3760 1.4799	1.2700	Ave		1.3798			0.8000	7.2		20.0			
n-Decane	1.7854	1.8328	2.0302	1.9838 1.9305	1.8392	Ave		1.9003				5.1		20.0			
1,3-Dichlorobenzene	1.4712	1.5592	1.7088	1.5809 1.6688	1.5078	Ave		1.5828				5.8		20.0			
1,4-Dichlorobenzene	1.4805	1.5576	1.7185	1.6082 1.6794	1.5240	Ave		1.5947				5.8		20.0			
Benzyl alcohol	0.8551	0.9140	1.0185	0.9240 1.0098	0.8499	Ave		0.9285				7.8		20.0			
1,2-Dichlorobenzene	1.4042	1.4937	1.6439	1.5201 1.6112	1.4180	Ave		1.5152				6.5		20.0			
2-Methylphenol	1.1717	1.2480	1.3870	1.2590 1.3555	1.1772	Ave		1.2664			0.7000	7.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2,2'-oxybis[1-chloropropane]				2.6008	2.4581	Ave		2.5402			0.0100	4.9		20.0			
	2.3796	2.4683	2.7060	2.6284													
N-Nitrosodi-n-propylamine	1.1634	1.0968	1.0584	1.0956	0.9990	Ave		1.0798			0.5000	5.5		20.0			
	0.9914	1.0510	1.1397	1.1231													
Acetophenone				2.0979	1.8630	Ave		1.9899			0.0100	5.8		20.0			
	1.8524	1.9590	2.0981	2.0689													
3 & 4 Methylphenol				1.4886	1.3350	Ave		1.4508				7.1		20.0			
	1.3302	1.4366	1.5680	1.5461													
4-Methylphenol				1.4886	1.3350	Ave		1.4508			0.6000	7.1		20.0			
	1.3302	1.4366	1.5680	1.5461													
Hexachloroethane	0.6786	0.6567	0.6053	0.6065	0.5505	Ave		0.6154			0.3000	7.0		20.0			
	0.5640	0.5897	0.6440	0.6431													
Nitrobenzene	0.6220	0.6193	0.6498	0.6408	0.6239	Ave		0.6531			0.2000	6.6		20.0			
	0.6126	0.6642	0.7298	0.7154													
n,n'-Dimethylaniline	2.0354	2.0350	2.0796	2.1063	1.8370	Ave		2.0616				6.0		20.0			
	1.9155	2.1519	2.1760	2.2179													
Isophorone			0.6090	0.6656	0.6125	Ave		0.6446			0.4000	5.9		20.0			
	0.5966	0.6552	0.6939	0.6796													
2-Nitrophenol				0.1440	0.1444	Ave		0.1636			0.1000	12.4		20.0			
	0.1492	0.1711	0.1879	0.1851													
2,4-Dimethylphenol				0.2849	0.2836	Ave		0.3010			0.2000	6.9		20.0			
	0.2815	0.3058	0.3281	0.3222													
Benzoic acid				0.0909	0.1097	Qua	-0.624	0.1750	0.0001534						0.9970		0.9900
	0.1469	0.1570	0.1882	0.1865													
Bis(2-chloroethoxy)methane				0.4173	0.3836	Ave		0.4114			0.3000	5.8		20.0			
	0.3813	0.4188	0.4406	0.4270													
2,4-Dichlorophenol			0.2521	0.2691	0.2643	Ave		0.2828			0.2000	9.5		20.0			
	0.2636	0.2966	0.3195	0.3143													
1,2,4-Trichlorobenzene	0.3238	0.3196	0.3153	0.3102	0.2935	Ave		0.3167				5.0		20.0			
	0.2935	0.3227	0.3403	0.3317													
Naphthalene				1.0115	0.9438	Ave		0.9964			0.7000	5.0		20.0			
	0.9288	1.0071	1.0559	1.0315													
4-Chloroaniline				0.4280	0.4030	Ave		0.4311			0.0100	6.4		20.0			
	0.3970	0.4384	0.4654	0.4547													
Hexachlorobutadiene		0.1766	0.1608	0.1653	0.1593	Ave		0.1713			0.0100	6.7		20.0			
	0.1599	0.1763	0.1885	0.1834													
4-Chloro-3-methylphenol				0.2781	0.2622	Ave		0.2841			0.2000	7.7		20.0			
	0.2601	0.2857	0.3118	0.3067													
2-Methylnaphthalene				0.6713	0.6229	Ave		0.6716			0.4000	6.2		20.0			
	0.6226	0.6861	0.7201	0.7065													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.5888	0.6514	0.6886	0.6318 0.6764	0.5982	Ave		0.6392				6.4		20.0			
Hexachlorocyclopentadiene	0.3776	0.4446	0.4773	0.3616 0.4769	0.3597	Ave		0.4163			0.0500	13.5		20.0			
1,2,4,5-Tetrachlorobenzene	0.6109	0.6806	0.7123	0.6372 0.7017	0.6071	Ave		0.6583			0.0100	7.0		20.0			
2-tertbutyl-4-methylphenol	0.3879	0.4449	0.4457	0.4115 0.4529	0.3625	Ave		0.4175				8.8		20.0			
2,4,6-Trichlorophenol	0.3635	0.4591	0.3343 0.4683	0.3580 0.4451	0.3700	Ave		0.3998			0.2000	13.9		20.0			
2,4,5-Trichlorophenol	0.4510	0.4640	0.5061	0.4535 0.5110	0.4494	Ave		0.4725			0.2000	6.0		20.0			
1,1'-Biphenyl	1.5503	1.7020	1.7485	1.6178 1.6895	1.5648	Ave		1.6455			0.0100	4.9		20.0			
2-Chloronaphthalene	1.2236	1.3330	1.3769	1.2912 1.3334	1.2342	Ave		1.2987			0.8000	4.7		20.0			
Phenyl ether	0.7540	0.8829	0.8644	0.7989 0.8736	0.7354	Ave		0.8182				7.9		20.0			
2-Nitroaniline	0.4495	0.5010	0.5226	0.4603 0.5163	0.4407	Ave		0.4817			0.0100	7.4		20.0			
1,3-Dimethylnaphthalene	0.9544	1.1129	1.0834	1.0116 1.1017	0.9304	Ave		1.0324				7.6		20.0			
Dimethyl phthalate	1.3635	1.5250	1.5703	1.4656 1.5426	1.4045	Ave		1.4786			0.0100	5.5		20.0			
Coumarin	0.2305	0.2651	0.2649	0.2520 0.2702	0.2238	Ave		0.2511				7.8		20.0			
2,6-Dinitrotoluene	0.2855	0.2302 0.3311	0.2424 0.3447	0.2656 0.3379	0.2777	Ave		0.2894			0.2000	15.2		20.0			
Acenaphthylene	1.8173	2.0236	2.0776	1.9385 2.0046	1.8535	Ave		1.9525			0.9000	5.2		20.0			
3-Nitroaniline	0.3349	0.3763	0.3981	0.3265 0.3936	0.3186	Ave		0.3580			0.0100	9.9		20.0			
3,5-di-tert-butyl-4-hydroxytol	0.9849	1.1576	1.1556	1.0273 1.1608	0.9381	Ave		1.0707				9.3		20.0			
Acenaphthene	1.2669	1.4159	1.4809	1.2946 1.2900	1.2659	Ave		1.3357			0.9000	6.8		20.0			
2,4-Dinitrophenol	0.1280	0.1651	0.0595 0.1919	0.0932 +++++	0.1104	Qua	-0.358	0.1225	0.0004492		0.0100				1.0000		0.9900
4-Nitrophenol	0.2776	0.3035	0.3178	0.2635 0.3160	0.2719	Ave		0.2917			0.0100	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,4-Dinitrotoluene	0.3855	0.2784 0.4354	0.3269 0.4651	0.3531 0.4579	0.3610	Ave		0.3829			0.2000	17.3		20.0			
Dibenzofuran	1.6971	1.8587	1.9343	1.8243 1.8850	1.7622	Ave		1.8269			0.8000	4.7		20.0			
2,3,4,6-Tetrachlorophenol	0.3138	0.3652	0.3958	0.3248 0.3892	0.3206	Ave		0.3516			0.0100	10.4		20.0			
Diethyl phthalate	1.3977	1.5540	1.5845	1.5128 1.5453	1.4267	Ave		1.5035			0.0100	5.0		20.0			
Fluorene	1.3792	1.5188	1.5672	1.4791 1.5286	1.3923	Ave		1.4775			0.9000	5.2		20.0			
4-Chlorophenyl phenyl ether	0.6223	0.7001	0.7237	0.6649 0.7228	0.6411	Ave		0.6792			0.4000	6.3		20.0			
4-Nitroaniline	0.3585	0.3972	0.4146	0.3490 0.4101	0.3460	Ave		0.3792			0.0100	8.3		20.0			
4,6-Dinitro-2-methylphenol	0.0846	0.1047	0.0499 0.1205	0.0621 +++++	0.0718	Qua	-0.198	0.0799	0.0002617		0.0100				1.0000		0.9900
N-Nitrosodiphenylamine	0.5107	0.5416	0.5913	0.5286 0.5783	0.5172	Ave		0.5446			0.0100	6.1		20.0			
1,2-Diphenylhydrazine	0.7689	0.8111	0.8546	0.8232 0.8527	0.7891	Ave		0.8166				4.2		20.0			
4-Bromophenyl phenyl ether	0.1970	0.2215	0.2401	0.2094 0.2386	0.2015	Ave		0.2180			0.1000	8.5		20.0			
Hexachlorobenzene	0.2490 0.2185	0.2490 0.2425	0.2317 0.2637	0.2380 0.2639	0.2242	Ave		0.2423			0.1000	6.6		20.0			
Pentachlorophenol	0.1243	0.1438	0.1058 0.1708	0.1203 +++++	0.1182	Ave		0.1305			0.0500	17.8		20.0			
Pentachloronitrobenzene	0.0880	0.1037	0.1086	0.0850 0.1141	0.0811	Ave		0.0967			0.0100	14.2		20.0			
n-Octadecane	0.6098	0.6346	0.6822	0.6326 0.6558	0.6149	Ave		0.6383				4.2		20.0			
Phenanthrene	1.0774	1.1493	1.2249	1.1450 1.1901	1.0858	Ave		1.1454			0.7000	5.0		20.0			
Anthracene	1.0990	1.1948	1.2745	1.1608 1.2503	1.1315	Ave		1.1852			0.7000	5.7		20.0			
Carbazole	1.0108	1.0824	1.1654	1.0772 1.1315	1.0106	Ave		1.0796			0.0100	5.8		20.0			
Di-n-butyl phthalate	1.2458	1.3550	1.4096	1.2867 1.3858	1.2427	Ave		1.3209			0.0100	5.5		20.0			
Fluoranthene	1.1278	1.2257	1.3202	1.1872 1.2731	1.1313	Ave		1.2109			0.6000	6.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzidine	0.6777	0.7343	0.8188	0.2502 0.8229	0.6190	Lin2	-2.817	0.8373			0.0100				0.9970		0.9900
Pyrene	1.2358	1.2633	1.4223	1.3166 1.3914	1.2705	Ave		1.3167			0.6000	5.7		20.0			
Bisphenol-A	0.4644	0.5049	0.6171	0.3744 0.6064	0.4278	Ave		0.4992				19.5		20.0			
Butyl benzyl phthalate	0.5413	0.5659	0.6556	0.5279 0.6493	0.5230	Ave		0.5772			0.0100	10.4		20.0			
2,3,7,8-TCDD		0.1326				Ave		0.1326						20.0			
Carbamazepine	0.4704	0.4834	0.5865	0.4305 0.5954	0.4267	Ave		0.4988				15.0		20.0			
3,3'-Dichlorobenzidine	0.4247	0.4363	0.2157 0.5167	0.4108 0.5266	0.4004	Lin2	-0.538	0.4872			0.0100				0.9920		0.9900
Benzo[a]anthracene	1.4140 1.1246	1.2924 1.1392	1.2366 1.2935	1.2204 1.2846	1.1655	Ave		1.2412			0.8000	7.4		20.0			
Chrysene	1.0651	1.0525	1.2054	1.1668 1.1885	1.0891	Ave		1.1279			0.7000	5.9		20.0			
Bis(2-ethylhexyl) phthalate	0.7896	0.8115	0.9391	0.8071 0.9246	0.7882	Ave		0.8434			0.0100	8.2		20.0			
Di-n-octyl phthalate	1.2993	1.4680	1.5327	1.2391 1.5087	1.2638	Ave		1.3853			0.0100	9.5		20.0			
Benzo[b]fluoranthene	1.0789 1.0824	1.0195 1.1792	1.0971 1.2204	1.0768 1.1968	1.0293	Ave		1.1089			0.7000	6.5		20.0			
Benzo[k]fluoranthene	1.1140 1.0560	1.0973 1.1646	1.1407 1.2467	1.1045 1.2302	1.1278	Ave		1.1424			0.7000	5.5		20.0			
Benzo[a]pyrene	0.9682 1.0059	0.9982 1.1154	1.0188 1.1896	1.0187 1.1599	1.0007	Ave		1.0528			0.7000	7.6		20.0			
Indeno[1,2,3-cd]pyrene	0.9180 0.9469	0.8695 1.0314	0.8451 1.1491	0.9041 1.1468	0.9225	Ave		0.9704			0.5000	11.7		20.0			
Dibenz(a,h)anthracene	0.7890 0.9464	0.8711 1.0493	0.9140 1.1252	0.9459 1.1126	0.9381	Ave		0.9657			0.4000	11.5		20.0			
Benzo[g,h,i]perylene	0.9960	1.0910	1.1713	1.0169 1.1355	1.0047	Ave		1.0692			0.5000	6.9		20.0			
2-Fluorophenol (Surr)	1.3719 1.2307	1.3576 1.3389	1.2888 1.4924	1.3163 1.5113	1.2546	Ave		1.3514				7.2		20.0			
Phenol-d5 (Surr)	1.7555 1.5322	1.6752 1.6853	1.5607 1.8592	1.6467 1.9009	1.5469	Ave		1.6847				7.9		20.0			
Nitrobenzene-d5 (Surr)	0.4192 0.3436	0.4094 0.3859	0.3668 0.4116	0.3687 0.4105	0.3433	Ave		0.3843				7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Fluorobiphenyl	1.3840	1.6046 1.5690	1.4889 1.6192	1.4372 1.6234	1.4122	Ave		1.5173				6.5		20.0			
2,4,6-Tribromophenol (Surr)	0.2050	0.1578 0.2401	0.1851 0.2615	0.1988 0.2616	0.1971	Ave		0.2134				17.5		20.0			
Terphenyl-d14 (Surr)	0.9715 0.8590	0.9470 0.8193	0.9022 1.0132	0.9035 1.0379	0.8533	Ave		0.9230				8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-503804/10	L2077534.d
Level 2	STD1 460-503804/9	L2077533.d
Level 3	STD2 460-503804/8	L2077532.d
Level 4	STD5 460-503804/7	L2077531.d
Level 5	STD10 460-503804/6	L2077530.d
Level 6	STD20 460-503804/5	L2077529.d
Level 7	ICIS 460-503804/2	L2077526.d
Level 8	STD80 460-503804/4	L2077528.d
Level 9	STD120 460-503804/3	L2077527.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCBd 4	Ave	50322	122875	206159	11970 293340	25039	20.0	50.0	80.0	5.00 120	10.0
N-Nitrosodimethylamine	DCBd 4	Ave	85720	214223	357924	18764 514220	42233	20.0	50.0	80.0	5.00 120	10.0
Pyridine	DCBd 4	Ave	298196	738460	1243045	61376 1769406	143200	40.0	100	160	10.0 240	20.0
Phenol	DCBd 4	Ave	164461	418821	751759	36564 1085959	82583	20.0	50.0	80.0	5.00 120	10.0
Aniline	DCBd 4	Ave	206103	524371	874701	44750 1262500	102356	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	2658 127835	5288 316029	11004 528316	28632 762220	62821	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2-Chlorophenol	DCBd 4	Ave	132992	336159	563808	28693 805719	63956	20.0	50.0	80.0	5.00 120	10.0
n-Decane	DCBd 4	Ave	186559	448721	759496	41365 1051007	92616	20.0	50.0	80.0	5.00 120	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	153723	381739	639258	32964 908560	75929	20.0	50.0	80.0	5.00 120	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	154697	381337	642890	33534 914302	76746	20.0	50.0	80.0	5.00 120	10.0
Benzyl alcohol	DCBd 4	Ave	89347	223779	381034	19266 549765	42798	20.0	50.0	80.0	5.00 120	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	146728	365691	614989	31697 877210	71405	20.0	50.0	80.0	5.00 120	10.0
2-Methylphenol	DCBd 4	Ave	122427	305551	518859	26252 737987	59279	20.0	50.0	80.0	5.00 120	10.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	248640	604287	1012306	54231 1431010	123784	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Nitrosodi-n-propylamine	DCBd 4	Ave	2220 103596	4399 257316	8692 426349	22845 611435	50305	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Acetophenone	DCBd 4	Ave	193557	479613	784900	43745 1126388	93815	20.0	50.0	80.0	5.00 120	10.0
3 & 4 Methylphenol	DCBd 4	Ave	138992	351713	586593	31039 841762	67229	20.0	50.0	80.0	5.00 120	10.0
4-Methylphenol	DCBd 4	Ave	138992	351713	586593	31039 841762	67229	20.0	50.0	80.0	5.00 120	10.0
Hexachloroethane	DCBd 4	Ave	1295 58930	2634 144373	4971 240929	12646 350147	27721	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Nitrobenzene	DCBd 4	Ave	1187 64014	2484 162618	5336 273031	13361 389514	31418	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
n,n'-Dimethylaniline	DCBd 4	Ave	3884 200153	8162 526837	17078 814035	43919 1207487	92505	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Isophorone	NPT	Ave	246416	623284	20124 1043821	57021 1509996	123603	20.0	50.0	2.00 80.0	5.00 120	10.0
2-Nitrophenol	NPT	Ave	61644	162766	282623	12337 411323	29147	20.0	50.0	80.0	5.00 120	10.0
2,4-Dimethylphenol	NPT	Ave	116266	290879	493554	24406 715911	57238	20.0	50.0	80.0	5.00 120	10.0
Benzoic acid	NPT	Qua	60657	149331	283136	7790 414493	22130	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	157510	398370	662847	35748 948779	77409	20.0	50.0	80.0	5.00 120	10.0
2,4-Dichlorophenol	NPT	Ave	108888	282171	8332 480666	23050 698351	53326	20.0	50.0	2.00 80.0	5.00 120	10.0
1,2,4-Trichlorobenzene	NPT	Ave	2467 121237	5210 306979	10419 511988	26572 737086	59231	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Naphthalene	NPT	Ave	383634	958009	1588434	86658 2291926	190460	20.0	50.0	80.0	5.00 120	10.0
4-Chloroaniline	NPT	Ave	163977	417021	700059	36663 1010304	81322	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobutadiene	NPT	Ave	66035	2878 167703	5313 283632	14158 407442	32149	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
4-Chloro-3-methylphenol	NPT	Ave	107448	271810	469043	23823 681351	52903	20.0	50.0	80.0	5.00 120	10.0
2-Methylnaphthalene	NPT	Ave	257141	652702	1083203	57509 1569834	125708	20.0	50.0	80.0	5.00 120	10.0
1-Methylnaphthalene	NPT	Ave	243180	619656	1035941	54125 1502923	120719	20.0	50.0	80.0	5.00 120	10.0
Hexachlorocyclopentadiene	ANT	Ave	75908	204521	352045	15438 523654	35082	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	122794	313064	525420	27206 770470	59210	20.0	50.0	80.0	5.00 120	10.0
2-tertbutyl-4-methylphenol	NPT	Ave	160204	423186	670462	35249 1006202	73162	20.0	50.0	80.0	5.00 120	10.0
2,4,6-Trichlorophenol	ANT	Ave	73056	211180	5493 345464	15284 488698	36087	20.0	50.0	2.00 80.0	5.00 120	10.0
2,4,5-Trichlorophenol	ANT	Ave	90644	213420	373322	19364 561048	43834	20.0	50.0	80.0	5.00 120	10.0
1,1'-Biphenyl	ANT	Ave	311607	782898	1289742	69072 1855019	152626	20.0	50.0	80.0	5.00 120	10.0
2-Chloronaphthalene	ANT	Ave	245947	613183	1015656	55128 1463980	120374	20.0	50.0	80.0	5.00 120	10.0
Phenyl ether	ANT	Ave	151566	406111	637620	34108 959221	71724	20.0	50.0	80.0	5.00 120	10.0
2-Nitroaniline	ANT	Ave	90348	230472	385502	19652 566858	42986	20.0	50.0	80.0	5.00 120	10.0
1,3-Dimethylnaphthalene	ANT	Ave	191844	511895	799158	43192 1209628	90746	20.0	50.0	80.0	5.00 120	10.0
Dimethyl phthalate	ANT	Ave	274068	701491	1158296	62574 1693746	136988	20.0	50.0	80.0	5.00 120	10.0
Coumarin	NPT	Ave	95207	252162	398465	21591 600254	45173	20.0	50.0	80.0	5.00 120	10.0
2,6-Dinitrotoluene	ANT	Ave	57385	1822 152297	3983 254232	11341 371031	27087	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Acenaphthylene	ANT	Ave	365289	930815	1532514	82765 2200928	180783	20.0	50.0	80.0	5.00 120	10.0
3-Nitroaniline	ANT	Ave	67322	173100	293656	13941 432137	31077	20.0	50.0	80.0	5.00 120	10.0
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	197959	532459	852422	43860 1274455	91499	20.0	50.0	80.0	5.00 120	10.0
Acenaphthene	ANT	Ave	254661	651276	1092322	55275 1416401	123467	20.0	50.0	80.0	5.00 120	10.0
2,4-Dinitrophenol	ANT	Qua	51440	151924	1956 283088	7961 +++++	21540	40.0	100	4.00 160	10.0 +++++	20.0
4-Nitrophenol	ANT	Ave	111600	279237	468900	22501 693846	53045	40.0	100	160	10.0 240	20.0
2,4-Dinitrotoluene	ANT	Ave	77491	2204 200294	5371 343103	15077 502786	35207	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Dibenzofuran	ANT	Ave	341125	854959	1426786	77891 2069615	171880	20.0	50.0	80.0	5.00 120	10.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	63070	167990	291980	13866 427374	31270	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Diethyl phthalate	ANT	Ave	280937	714814	1168760	64590 1696712	139150	20.0	50.0	80.0	5.00 120	10.0
Fluorene	ANT	Ave	277217	698630	1156032	63153 1678312	135803	20.0	50.0	80.0	5.00 120	10.0
4-Chlorophenyl phenyl ether	ANT	Ave	125091	322036	533825	28389 793652	62525	20.0	50.0	80.0	5.00 120	10.0
4-Nitroaniline	ANT	Ave	72059	182729	305809	14901 450244	33752	20.0	50.0	80.0	5.00 120	10.0
4,6-Dinitro-2-methylphenol	PHN	Qua	64651	188158	3191 332721	10300 +++++	26790	40.0	100	4.00 160	10.0 +++++	20.0
N-Nitrosodiphenylamine	PHN	Ave	195117	486915	816621	43849 1183261	96443	20.0	50.0	80.0	5.00 120	10.0
1,2-Diphenylhydrazine	PHN	Ave	293752	729170	1180219	68287 1744759	147157	20.0	50.0	80.0	5.00 120	10.0
4-Bromophenyl phenyl ether	PHN	Ave	75268	199110	331581	17373 488169	37569	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobenzene	PHN	Ave	1799 83486	3817 218029	7412 364155	19747 539964	41800	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Pentachlorophenol	PHN	Ave	95001	258506	6768 471692	19962 +++++	44095	40.0	100	4.00 160	10.0 +++++	20.0
Pentachloronitrobenzene	PHN	Ave	33616	93212	149917	7048 233459	15127	20.0	50.0	80.0	5.00 120	10.0
n-Octadecane	PHN	Ave	232990	570517	942181	52476 1341865	114672	20.0	50.0	80.0	5.00 120	10.0
Phenanthrene	PHN	Ave	411616	1033212	1691741	94988 2435149	202482	20.0	50.0	80.0	5.00 120	10.0
Anthracene	PHN	Ave	419906	1074051	1760165	96300 2558329	210992	20.0	50.0	80.0	5.00 120	10.0
Carbazole	PHN	Ave	386177	972999	1609560	89358 2315136	188455	20.0	50.0	80.0	5.00 120	10.0
Di-n-butyl phthalate	PHN	Ave	475986	1218120	1946747	106738 2835504	231743	20.0	50.0	80.0	5.00 120	10.0
Fluoranthene	PHN	Ave	430897	1101830	1823317	98488 2604987	210963	20.0	50.0	80.0	5.00 120	10.0
Benzidine	PHN	Lin2	258909	660130	1130837	20752 1683639	115429	20.0	50.0	80.0	5.00 120	10.0
Pyrene	CRY	Ave	443075	1137611	1855196	103088 2660497	219976	20.0	50.0	80.0	5.00 120	10.0
Bisphenol-A	CRY	Ave	166505	454702	804895	29311 1159419	74075	20.0	50.0	80.0	5.00 120	10.0
Butyl benzyl phthalate	CRY	Ave	194066	509590	855154	41332 1241584	90544	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,3,7,8-TCDD	CRY	Ave		1194					0.500			
Carbamazepine	CRY	Ave	168656	435314	765009	33705 1138426	73871	20.0	50.0	80.0	5.00 120	10.0
3,3'-Dichlorobenzidine	CRY	Lin2	152254	392894	6472 673885	32162 1006857	69326	20.0	50.0	2.00 80.0	5.00 120	10.0
Benzo[a]anthracene	CRY	Ave	9807 403193	18781 1025839	37098 1687142	95554 2456173	201802	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Chrysene	CRY	Ave	381858	947765	1572171	91355 2272530	188568	20.0	50.0	80.0	5.00 120	10.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	283105	730765	1224897	63193 1767993	136462	20.0	50.0	80.0	5.00 120	10.0
Di-n-octyl phthalate	PRY	Ave	493475	1264511	2150233	103889 3099866	228878	20.0	50.0	80.0	5.00 120	10.0
Benzo[b]fluoranthene	PRY	Ave	8020 411095	15702 1015738	34471 1712047	90283 2458916	186413	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[k]fluoranthene	PRY	Ave	8281 401048	16900 1003182	35841 1748969	92603 2527668	204239	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[a]pyrene	PRY	Ave	7197 382043	15374 960772	32011 1668821	85414 2383167	181218	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	6824 359637	13392 888404	26555 1612068	75800 2356190	167054	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Dibenz(a,h)anthracene	PRY	Ave	5865 359425	13416 903841	28720 1578590	79305 2285995	169888	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[g,h,i]perylene	PRY	Ave	378270	939745	1643176	85264 2333056	181954	20.0	50.0	80.0	5.00 120	10.0
2-Fluorophenol (Surr)	DCBd 4	Ave	2618 128597	5445 327805	10584 558305	27448 822784	63179	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Phenol-d5 (Surr)	DCBd 4	Ave	3350 160095	6719 412592	12817 695538	34337 1034896	77899	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Nitrobenzene-d5 (Surr)	NPT	Ave	3194 141908	6673 367090	12122 619109	31583 912087	69281	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2-Fluorobiphenyl	ANT	Ave	278182	12701 721695	24465 1194395	61363 1782385	137738	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	41199	1249 110440	3042 192872	8489 287257	19224	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Terphenyl-d14 (Surr)	CRY	Ave	6738 307971	13761 737760	27064 1321522	70744 1984571	147739	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 15:03 Calibration End Date: 03/15/2018 18:04 Calibration ID: 66990

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 15-Mar-2018 15:03:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-002
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:35:34 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: asfawa Date: 16-Mar-2018 10:35:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.916	0.000	95	122875	50.0	47.9	
2 N-Nitrosodimethylamine	74	2.157	2.157	0.000	79	214223	50.0	49.2	
3 Pyridine	79	2.193	2.193	0.000	81	738460	100.0	99.3	
$ 4 2-Fluorophenol	112	3.369	3.369	0.000	93	327805	50.0	49.5	
$ 6 Phenol-d5	99	4.251	4.251	0.000	0	412592	50.0	50.0	
7 Phenol	94	4.263	4.263	0.000	97	418821	50.0	48.0	
8 Aniline	93	4.293	4.293	0.000	99	524371	50.0	49.6	
9 Bis(2-chloroethyl)ether	93	4.351	4.351	0.000	90	316029	50.0	48.4	a
10 2-Chlorophenol	128	4.410	4.410	0.000	93	336159	50.0	49.8	
11 n-Decane	43	4.463	4.463	0.000	94	448721	50.0	48.2	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	381739	50.0	49.3	a
* 13 1,4-Dichlorobenzene-d4	152	4.610	4.610	0.000	97	195859	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.622	4.622	0.000	94	381337	50.0	48.8	a
15 Benzyl alcohol	108	4.734	4.734	0.000	92	223779	50.0	49.2	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	96	365691	50.0	49.3	a
17 2-Methylphenol	108	4.840	4.840	0.000	90	305551	50.0	49.3	
18 2,2'-oxybis[1-chloropropan	45	4.863	4.863	0.000	91	604287	50.0	48.6	
20 3 & 4 Methylphenol	108	4.987	4.987	0.000	83	351713	50.0	49.5	
22 Acetophenone	105	4.987	4.987	0.000	91	479613	50.0	49.2	
19 4-Methylphenol	108	4.987	4.987	0.000	84	351713	50.0	49.5	a
21 N-Nitrosodi-n-propylamine	70	4.987	4.987	0.000	94	257316	50.0	48.7	
25 Hexachloroethane	117	5.093	5.093	0.000	95	144373	50.0	47.9	
$ 26 Nitrobenzene-d5	82	5.128	5.128	0.000	94	367090	50.0	50.2	
27 Nitrobenzene	123	5.146	5.146	0.000	89	162618	50.0	50.9	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	98	526837	50.0	52.2	
29 Isophorone	82	5.375	5.375	0.000	98	623284	50.0	50.8	
30 2-Nitrophenol	139	5.451	5.451	0.000	88	162766	50.0	52.3	
31 2,4-Dimethylphenol	122	5.493	5.493	0.000	90	290879	50.0	50.8	
32 Bis(2-chloroethoxy)methane	93	5.581	5.581	0.000	95	398370	50.0	50.9	
33 Benzoic acid	122	5.587	5.587	0.000	92	149331	50.0	46.5	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	95	282171	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.763	5.763	0.000	95	306979	50.0	50.9	
* 36 Naphthalene-d8	136	5.816	5.816	0.000	99	761021	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	99	958009	50.0	50.5	
38 4-Chloroaniline	127	5.881	5.881	0.000	96	417021	50.0	50.8	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	96	167703	50.0	51.5	
41 4-Chloro-3-methylphenol	107	6.340	6.340	0.000	97	271810	50.0	50.3	
42 2-Methylnaphthalene	142	6.492	6.492	0.000	84	652702	50.0	51.1	
43 1-Methylnaphthalene	142	6.587	6.587	0.000	93	619656	50.0	51.0	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	97	204521	50.0	53.4	
45 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	98	313064	50.0	51.7	
46 2-tertbutyl-4-methylphenol	149	6.681	6.681	0.000	90	423186	50.0	53.3	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	90	211180	50.0	57.4	a
49 2,4,5-Trichlorophenol	196	6.787	6.787	0.000	97	213420	50.0	49.1	
$ 50 2-Fluorobiphenyl	172	6.840	6.840	0.000	97	721695	50.0	51.7	
51 1,1'-Biphenyl	154	6.934	6.934	0.000	97	782898	50.0	51.7	
52 2-Chloronaphthalene	162	6.951	6.951	0.000	99	613183	50.0	51.3	
53 Phenyl ether	170	7.034	7.034	0.000	90	406111	50.0	54.0	
54 2-Nitroaniline	65	7.045	7.045	0.000	97	230472	50.0	52.0	
55 1,3-Dimethylnaphthalene	156	7.163	7.163	0.000	91	511895	50.0	53.9	
58 Dimethyl phthalate	163	7.228	7.228	0.000	99	701491	50.0	51.6	
59 Coumarin	146	7.239	7.239	0.000	79	252162	50.0	52.8	
60 2,6-Dinitrotoluene	165	7.275	7.275	0.000	94	152297	50.0	57.2	
61 Acenaphthylene	152	7.345	7.345	0.000	97	930815	50.0	51.8	
62 3-Nitroaniline	138	7.434	7.434	0.000	92	173100	50.0	52.6	
* 63 Acenaphthene-d10	164	7.481	7.481	0.000	99	367988	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.504	7.504	0.000	98	532459	50.0	54.1	
65 Acenaphthene	154	7.510	7.510	0.000	96	651276	50.0	53.0	
66 2,4-Dinitrophenol	184	7.534	7.534	0.000	91	151924	100.0	100.6	
67 4-Nitrophenol	65	7.598	7.598	0.000	91	279237	100.0	104.0	
68 2,4-Dinitrotoluene	165	7.657	7.657	0.000	92	200294	50.0	56.9	
69 Dibenzofuran	168	7.675	7.675	0.000	96	854959	50.0	50.9	
70 2,3,4,6-Tetrachlorophenol	232	7.792	7.792	0.000	94	167990	50.0	51.9	
71 Diethyl phthalate	149	7.898	7.898	0.000	98	714814	50.0	51.7	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	76	322036	50.0	51.5	
74 Fluorene	166	7.998	7.998	0.000	93	698630	50.0	51.4	
75 4-Nitroaniline	138	8.016	8.016	0.000	94	182729	50.0	52.4	
76 4,6-Dinitro-2-methylphenol	198	8.045	8.045	0.000	81	188158	100.0	100.4	
77 N-Nitrosodiphenylamine	169	8.110	8.110	0.000	100	486915	50.0	49.7	
78 1,2-Diphenylhydrazine	77	8.145	8.145	0.000	99	729170	50.0	49.7	
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	95	110440	50.0	56.3	
80 4-Bromophenyl phenyl ether	248	8.457	8.457	0.000	88	199110	50.0	50.8	
81 Hexachlorobenzene	284	8.522	8.522	0.000	98	218029	50.0	50.1	
83 Pentachlorophenol	266	8.704	8.704	0.000	94	258506	100.0	110.1	
84 Pentachloronitrobenzene	237	8.722	8.722	0.000	87	93212	50.0	53.6	
72 n-Octadecane	57	8.798	8.798	0.000	92	570517	50.0	49.7	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	719175	40.0	40.0	
86 Phenanthrene	178	8.904	8.904	0.000	98	1033212	50.0	50.2	
87 Anthracene	178	8.951	8.951	0.000	98	1074051	50.0	50.4	
88 Carbazole	167	9.104	9.104	0.000	96	972999	50.0	50.1	
89 Di-n-butyl phthalate	149	9.445	9.445	0.000	100	1218120	50.0	51.3	
90 Fluoranthene	202	10.028	10.028	0.000	97	1101830	50.0	50.6	
91 Benzidine	184	10.157	10.157	0.000	99	660130	50.0	47.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.245	10.245	0.000	97	1137611	50.0	48.0	
93 Bisphenol-A	213	10.298	10.298	0.000	98	454702	50.0	50.6	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	100	737760	50.0	44.4	
95 Butyl benzyl phthalate	149	10.927	10.927	0.000	97	509590	50.0	49.0	
96 2,3,7,8-TCDD	320	11.022	11.022	0.000	90	1194	0.5000	0.5000	
97 Carbamazepine	193	11.039	11.039	0.000	93	435314	50.0	48.5	
98 3,3'-Dichlorobenzidine	252	11.527	11.527	0.000	100	392894	50.0	45.9	
99 Benzo[a]anthracene	228	11.551	11.551	0.000	100	1025839	50.0	45.9	
* 100 Chrysene-d12	240	11.563	11.563	0.000	99	720419	40.0	40.0	
101 Chrysene	228	11.598	11.598	0.000	98	947765	50.0	46.7	
102 Bis(2-ethylhexyl) phthalat	149	11.622	11.622	0.000	87	730765	50.0	48.1	
103 Di-n-octyl phthalate	149	12.504	12.504	0.000	97	1264511	50.0	53.0	
104 Benzo[b]fluoranthene	252	12.992	12.992	0.000	98	1015738	50.0	53.2	
105 Benzo[k]fluoranthene	252	13.033	13.033	0.000	99	1003182	50.0	51.0	
106 Benzo[a]pyrene	252	13.463	13.463	0.000	96	960772	50.0	53.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	98	689091	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.221	15.221	0.000	98	888404	50.0	53.1	
109 Dibenz(a,h)anthracene	278	15.274	15.274	0.000	97	903841	50.0	54.3	
110 Benzo[g,h,i]perylene	276	15.704	15.704	0.000	97	939745	50.0	51.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SV_IC_BNA_L6_00033 Amount Added: 1.00 Units: mL

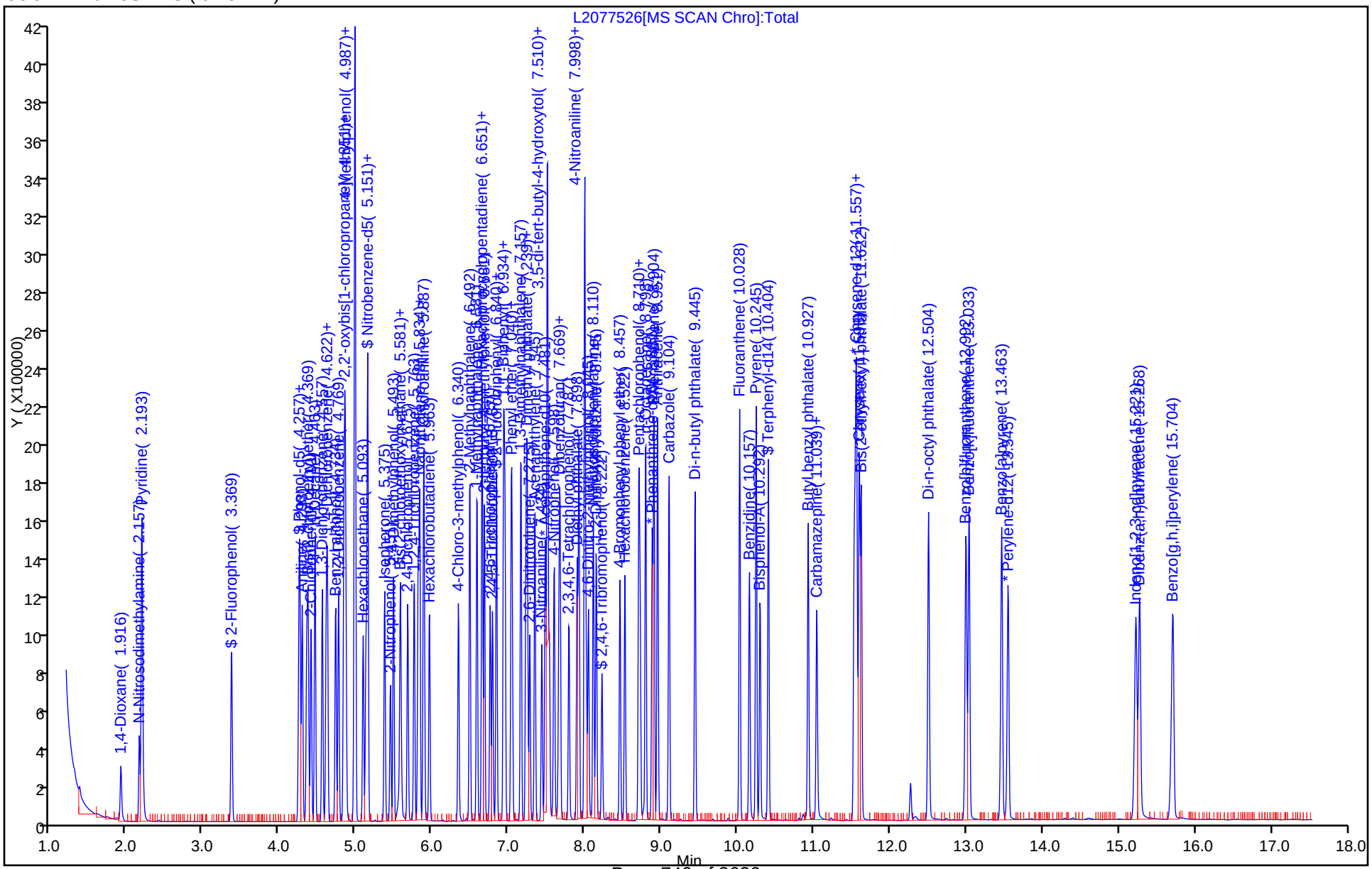
Report Date: 16-Mar-2018 10:35:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d

Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	ICIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

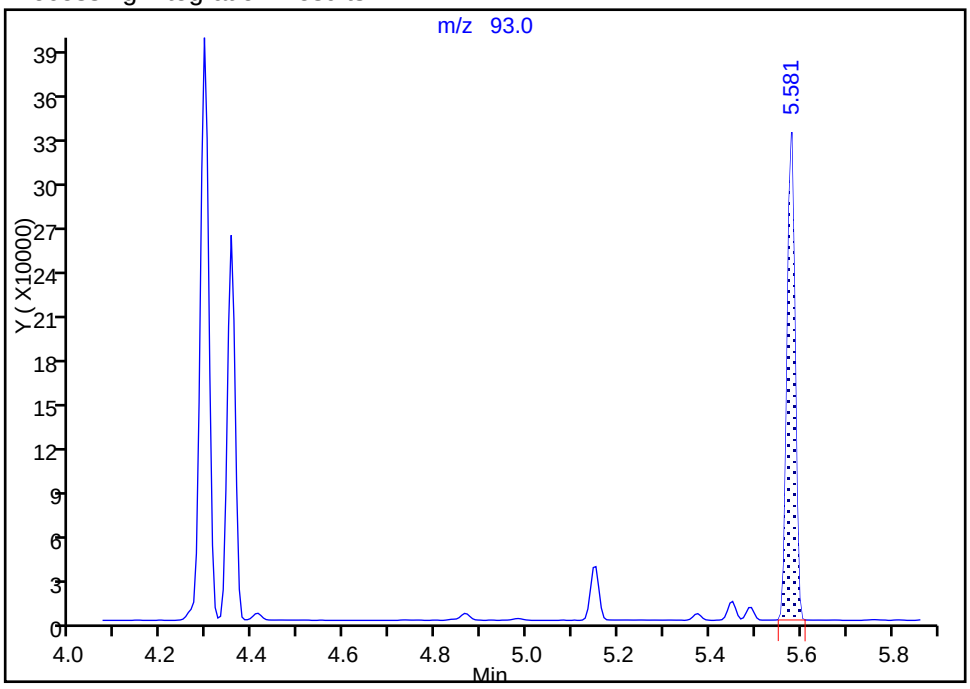
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

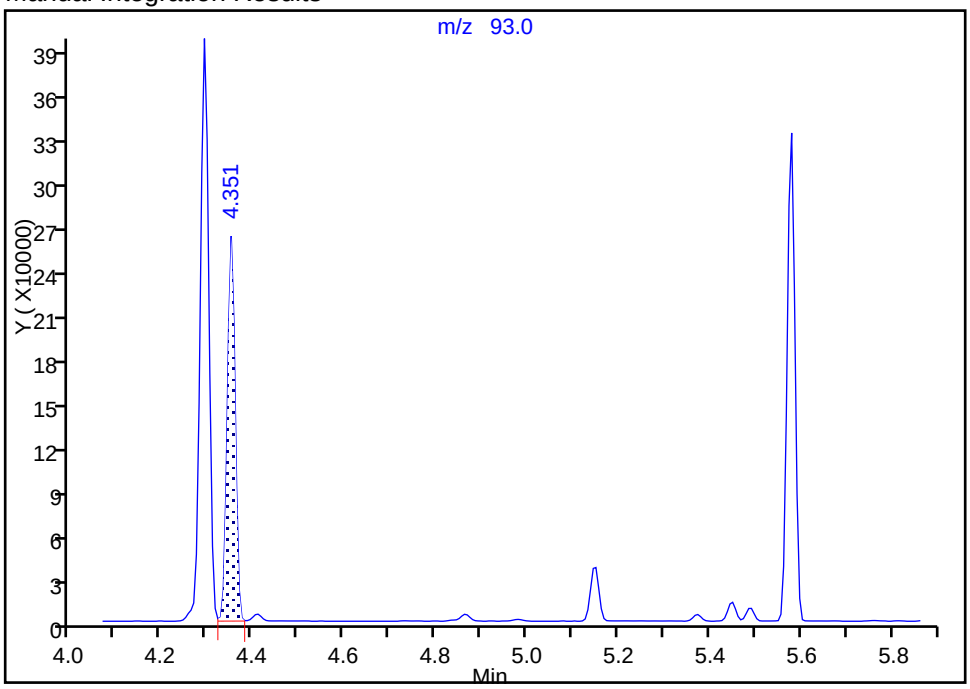
Processing Integration Results

RT: 5.58
Area: 398370
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.35
Area: 316029
Amount: 48.413016
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:34:30

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

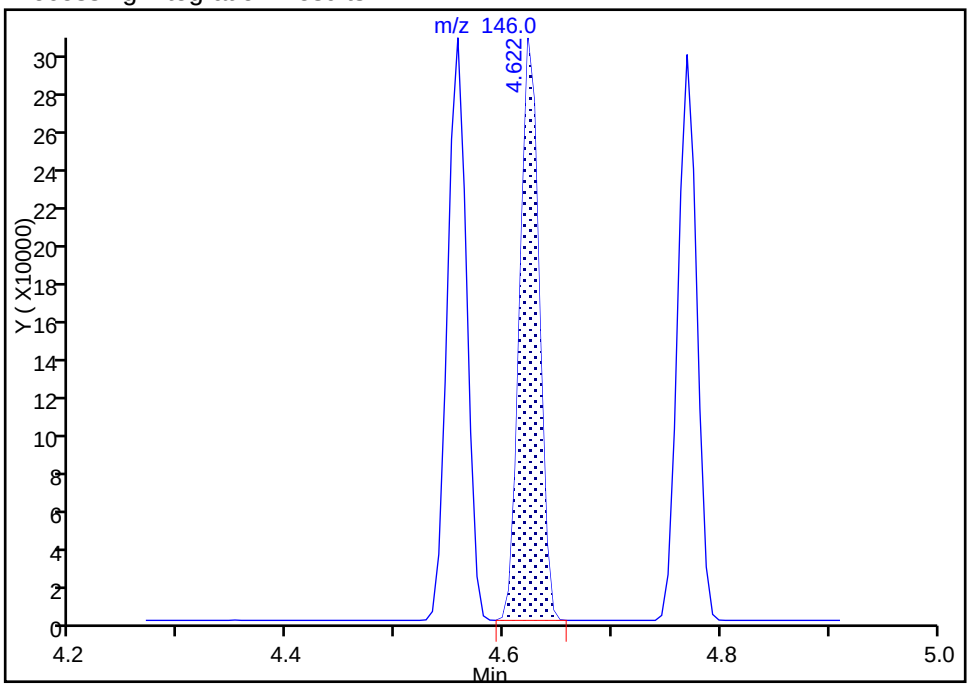
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

12 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

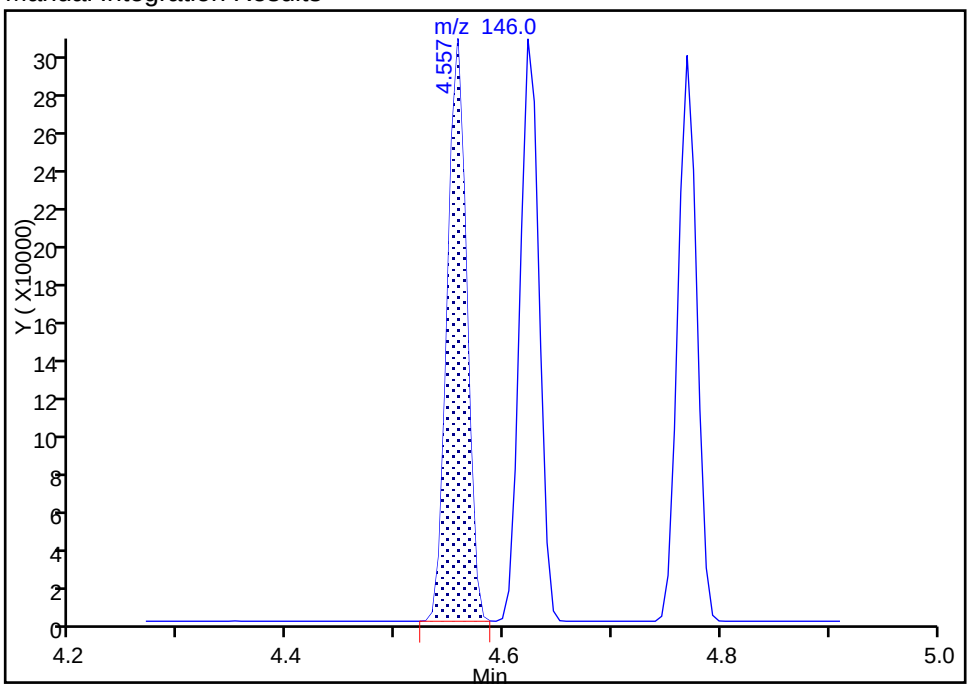
Processing Integration Results

RT: 4.62
Area: 381275
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.56
Area: 381739
Amount: 49.256298
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:33:49

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

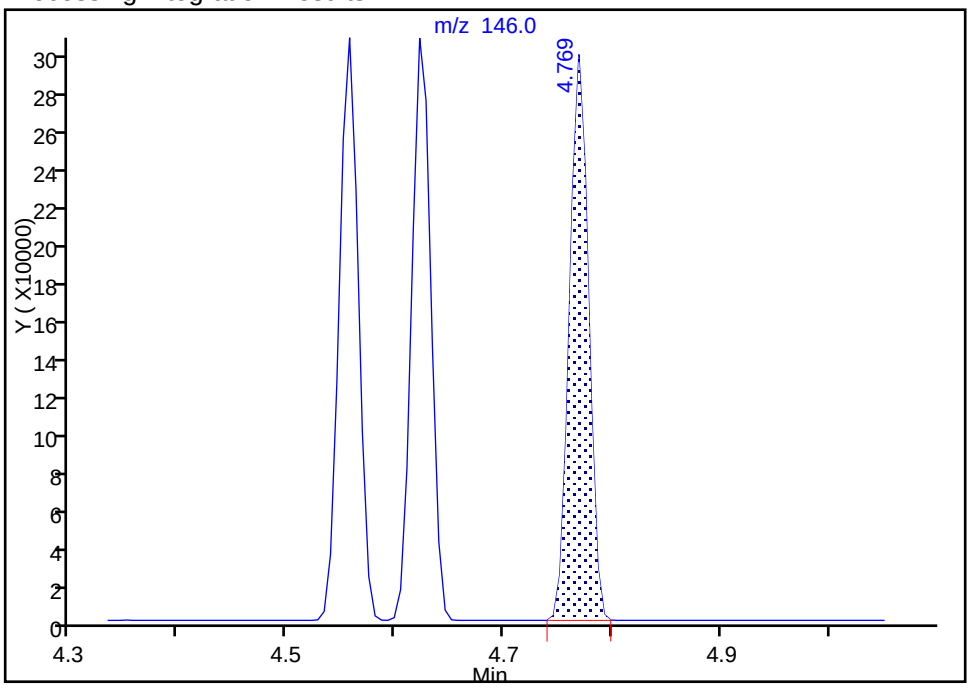
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

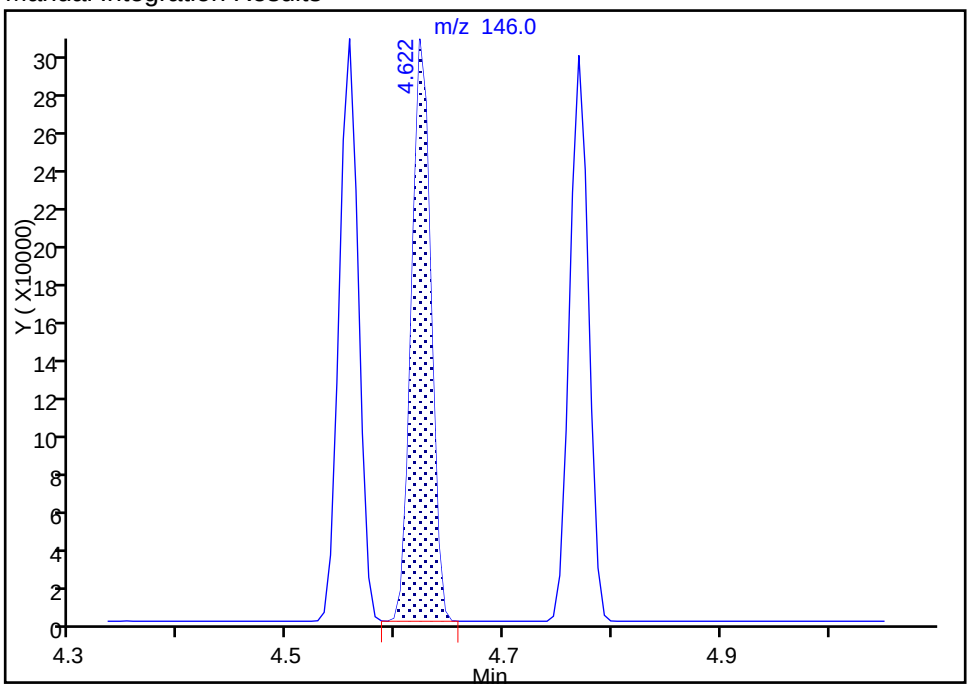
Processing Integration Results

RT: 4.77
Area: 365691
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.62
Area: 381337
Amount: 48.836767
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:33:42

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

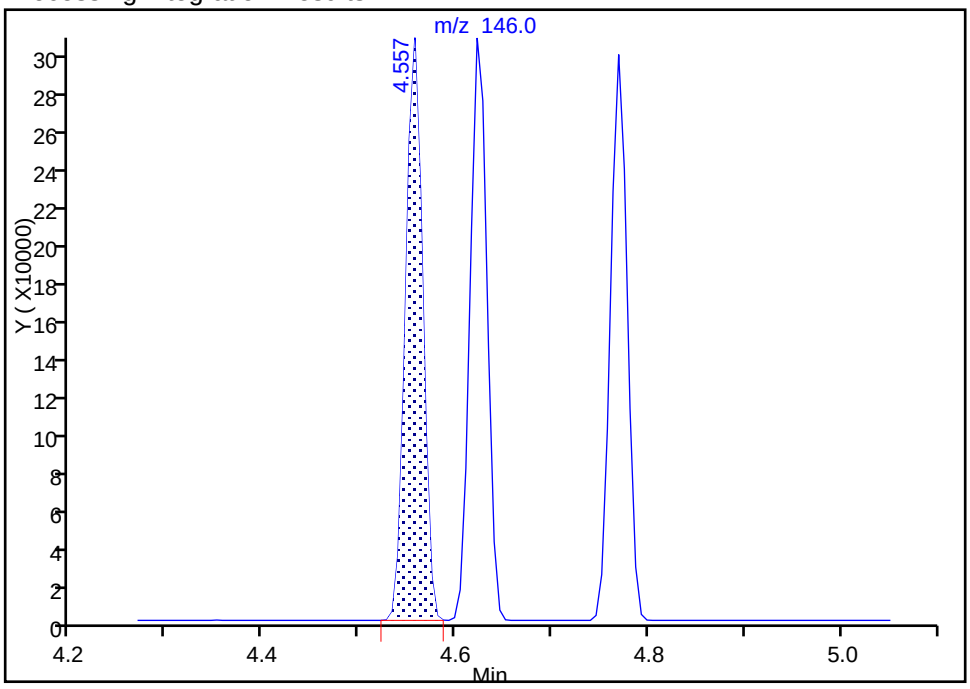
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

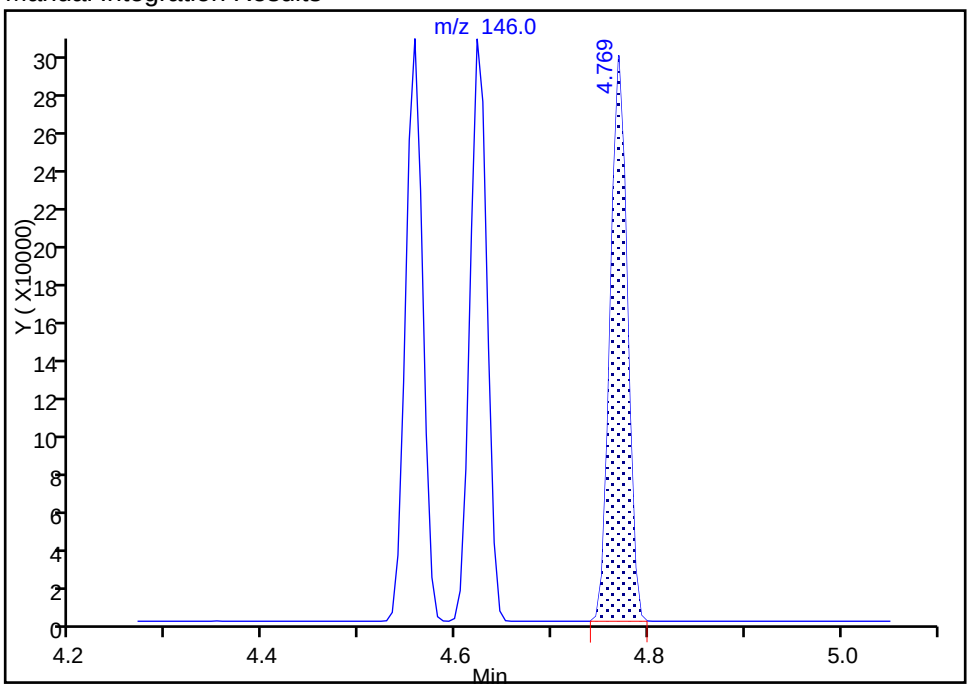
Processing Integration Results

RT: 4.56
Area: 381739
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.77
Area: 365691
Amount: 49.290517
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:34:00

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

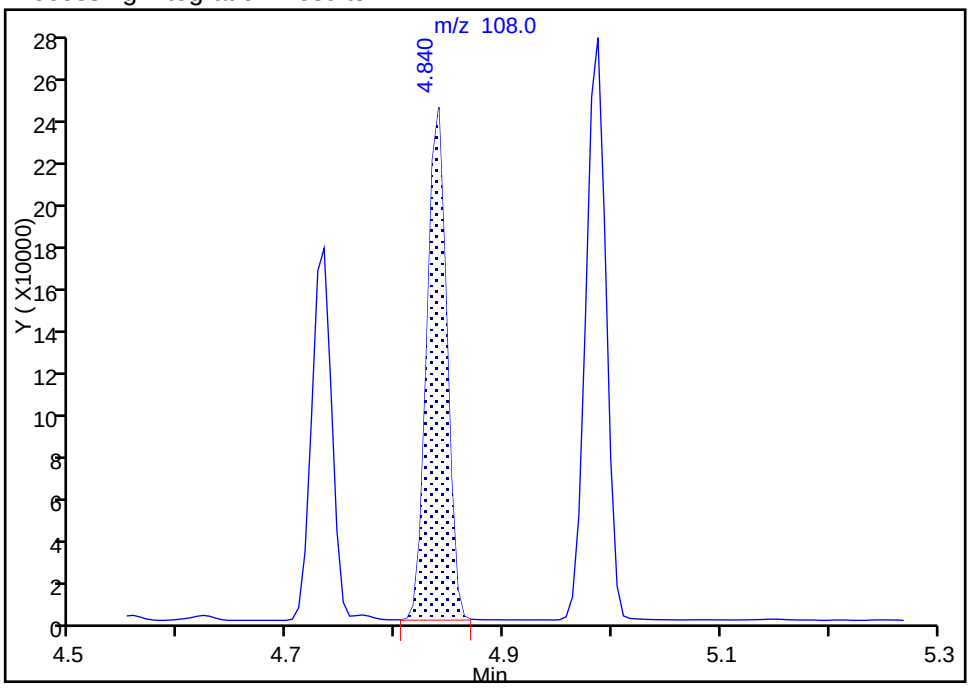
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 4-Methylphenol, CAS: 106-44-5

Signal: 1

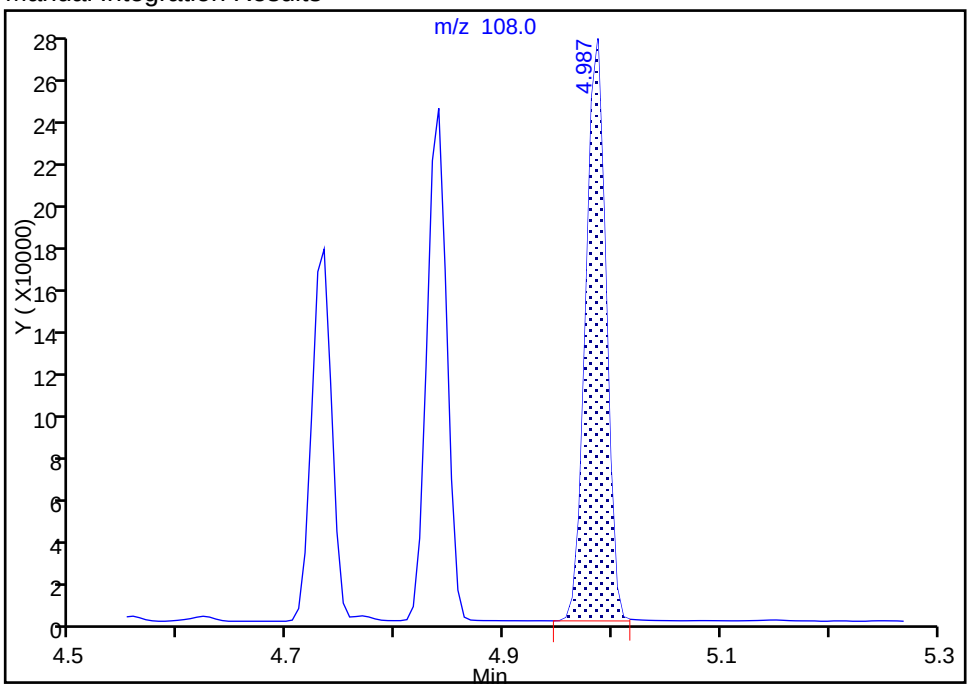
Processing Integration Results

RT: 4.84
Area: 305551
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.99
Area: 351713
Amount: 49.512108
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:33:19

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

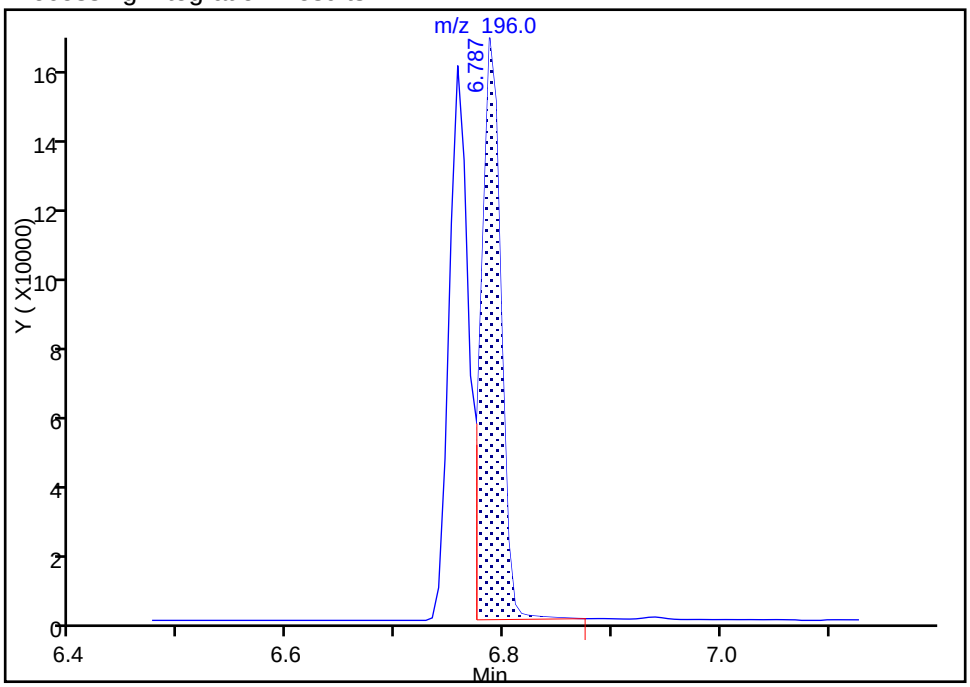
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077526.d				
Injection Date:	15-Mar-2018 15:03:30	Instrument ID:	CBNAMS12		
Lims ID:	ICIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

48 2,4,6-Trichlorophenol, CAS: 88-06-2

Signal: 1

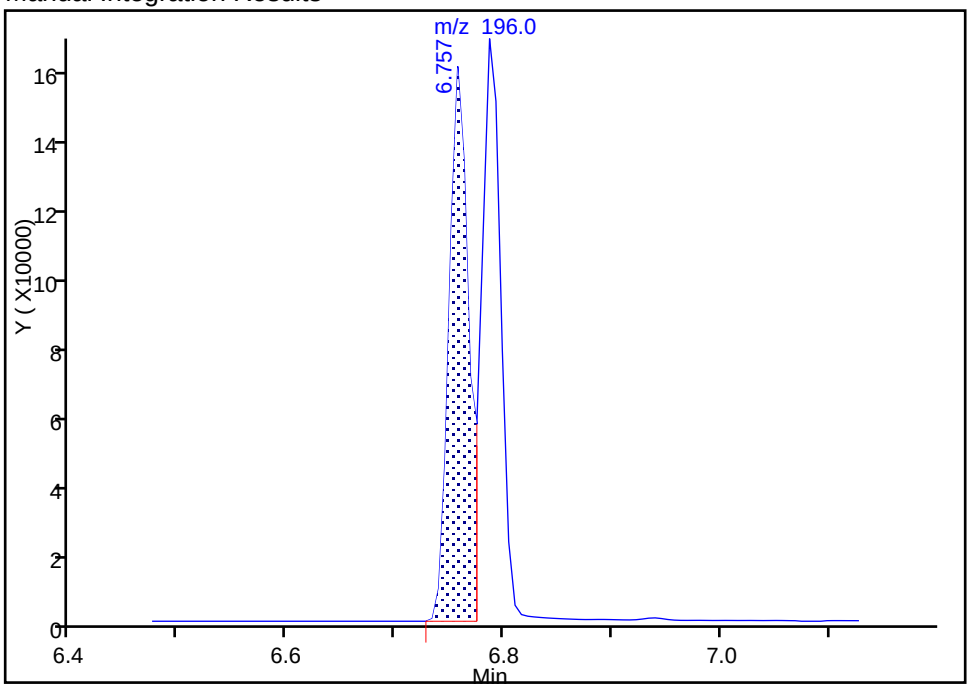
Processing Integration Results

RT: 6.79
Area: 213420
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 6.76
Area: 211180
Amount: 57.423249
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:30:54

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 16-Mar-2018 10:24:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077527.d
Lims ID: STD120
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 15-Mar-2018 15:25:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-003
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:24:31 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 15-Mar-2018 15:54:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.916	0.000	96	293340	120.0	123.4	
2 N-Nitrosodimethylamine	74	2.163	2.157	0.006	78	514220	120.0	127.5	
3 Pyridine	79	2.193	2.193	0.000	81	1769406	240.0	256.7	
$ 4 2-Fluorophenol	112	3.369	3.369	0.000	92	822784	120.0	134.2	
$ 6 Phenol-d5	99	4.263	4.251	0.012	0	1034896	120.0	135.4	
7 Phenol	94	4.275	4.263	0.012	96	1085959	120.0	134.4	
8 Aniline	93	4.298	4.293	0.005	99	1262500	120.0	128.9	
9 Bis(2-chloroethyl)ether	93	4.357	4.351	0.006	91	762220	120.0	126.0	
10 2-Chlorophenol	128	4.416	4.410	0.006	93	805719	120.0	128.7	
11 n-Decane	43	4.463	4.463	0.000	94	1051007	120.0	121.9	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	908560	120.0	126.5	
* 13 1,4-Dichlorobenzene-d4	152	4.610	4.610	0.000	97	181478	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.628	4.622	0.006	95	914302	120.0	126.4	
15 Benzyl alcohol	108	4.740	4.734	0.006	92	549765	120.0	130.5	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	96	877210	120.0	127.6	
17 2-Methylphenol	108	4.845	4.840	0.005	90	737987	120.0	128.4	
18 2,2'-oxybis[1-chloropropan	45	4.869	4.863	0.006	92	1431010	120.0	124.2	
20 3 & 4 Methylphenol	108	4.998	4.987	0.011	90	841762	120.0	127.9	
22 Acetophenone	105	4.992	4.987	0.005	87	1126388	120.0	124.8	
19 4-Methylphenol	108	4.998	4.987	0.011	85	841762	120.0	127.9	
21 N-Nitrosodi-n-propylamine	70	4.998	4.987	0.011	93	611435	120.0	124.8	
25 Hexachloroethane	117	5.092	5.093	-0.001	95	350147	120.0	125.4	
$ 26 Nitrobenzene-d5	82	5.134	5.128	0.006	93	912087	120.0	128.2	
27 Nitrobenzene	123	5.157	5.146	0.011	89	389514	120.0	131.5	
28 n,n'-Dimethylaniline	120	5.157	5.151	0.006	97	1207487	120.0	129.1	
29 Isophorone	82	5.387	5.375	0.012	98	1509996	120.0	126.5	
30 2-Nitrophenol	139	5.451	5.451	0.000	88	411323	120.0	135.8	
31 2,4-Dimethylphenol	122	5.498	5.493	0.005	91	715911	120.0	128.4	
32 Bis(2-chloroethoxy)methane	93	5.587	5.581	0.006	94	948779	120.0	124.5	
33 Benzoic acid	122	5.634	5.587	0.047	91	414493	120.0	119.1	
34 2,4-Dichlorophenol	162	5.681	5.675	0.006	95	698351	120.0	133.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.763	5.763	0.000	95	737086	120.0	125.7	
* 36 Naphthalene-d8	136	5.816	5.816	0.000	99	740629	40.0	40.0	
37 Naphthalene	128	5.839	5.834	0.005	99	2291926	120.0	124.2	
38 4-Chloroaniline	127	5.887	5.881	0.006	96	1010304	120.0	126.6	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	95	407442	120.0	128.5	
41 4-Chloro-3-methylphenol	107	6.345	6.340	0.005	98	681351	120.0	129.5	
42 2-Methylnaphthalene	142	6.492	6.492	0.000	84	1569834	120.0	126.2	
43 1-Methylnaphthalene	142	6.586	6.587	-0.001	93	1502923	120.0	127.0	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	97	523654	120.0	137.5	
45 1,2,4,5-Tetrachlorobenzene	216	6.657	6.651	0.006	98	770470	120.0	127.9	
46 2-tertbutyl-4-methylphenol	149	6.686	6.681	0.005	90	1006202	120.0	130.1	
48 2,4,6-Trichlorophenol	196	6.763	6.757	0.006	90	488698	120.0	133.6	
49 2,4,5-Trichlorophenol	196	6.792	6.787	0.005	97	561048	120.0	129.8	
$ 50 2-Fluorobiphenyl	172	6.845	6.840	0.005	97	1782385	120.0	128.4	
51 1,1'-Biphenyl	154	6.939	6.934	0.005	98	1855019	120.0	123.2	
52 2-Chloronaphthalene	162	6.957	6.951	0.006	97	1463980	120.0	123.2	
53 Phenyl ether	170	7.034	7.034	0.000	92	959221	120.0	128.1	
54 2-Nitroaniline	65	7.051	7.045	0.006	97	566858	120.0	128.6	
55 1,3-Dimethylnaphthalene	156	7.163	7.163	0.000	91	1209628	120.0	128.1	
58 Dimethyl phthalate	163	7.233	7.228	0.005	99	1693746	120.0	125.2	
59 Coumarin	146	7.251	7.239	0.012	81	600254	120.0	129.1	
60 2,6-Dinitrotoluene	165	7.286	7.275	0.011	93	371031	120.0	140.1	
61 Acenaphthylene	152	7.351	7.345	0.006	97	2200928	120.0	123.2	
62 3-Nitroaniline	138	7.445	7.434	0.011	93	432137	120.0	131.9	
* 63 Acenaphthene-d10	164	7.481	7.481	0.000	95	365984	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.510	7.504	0.006	98	1274455	120.0	130.1	
65 Acenaphthene	154	7.516	7.510	0.006	96	1416401	120.0	115.9	
66 2,4-Dinitrophenol	184	7.545	7.534	0.011	92	428040	240.0	215.1	
67 4-Nitrophenol	65	7.610	7.598	0.012	91	693846	240.0	259.9	
68 2,4-Dinitrotoluene	165	7.669	7.657	0.012	93	502786	120.0	143.5	
69 Dibenzofuran	168	7.681	7.675	0.006	96	2069615	120.0	123.8	
70 2,3,4,6-Tetrachlorophenol	232	7.792	7.792	0.000	93	427374	120.0	132.9	
71 Diethyl phthalate	149	7.904	7.898	0.006	98	1696712	120.0	123.3	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	77	793652	120.0	127.7	
74 Fluorene	166	7.998	7.998	0.000	93	1678312	120.0	124.1	
75 4-Nitroaniline	138	8.039	8.016	0.023	92	450244	120.0	129.8	
76 4,6-Dinitro-2-methylphenol	198	8.057	8.045	0.012	84	498003	240.0	215.6	
77 N-Nitrosodiphenylamine	169	8.116	8.110	0.006	99	1183261	120.0	127.4	
78 1,2-Diphenylhydrazine	77	8.151	8.145	0.006	99	1744759	120.0	125.3	
$ 79 2,4,6-Tribromophenol	330	8.228	8.222	0.006	95	287257	120.0	147.1	
80 4-Bromophenyl phenyl ether	248	8.463	8.457	0.006	88	488169	120.0	131.3	
81 Hexachlorobenzene	284	8.528	8.522	0.006	98	539964	120.0	130.7	
83 Pentachlorophenol	266	8.710	8.704	0.006	94	678251	240.0	304.7	
84 Pentachloronitrobenzene	237	8.728	8.722	0.006	88	233459	120.0	141.5	
72 n-Octadecane	57	8.798	8.798	0.000	92	1341865	120.0	123.3	
* 85 Phenanthrene-d10	188	8.886	8.881	0.005	99	682032	40.0	40.0	
86 Phenanthrene	178	8.910	8.904	0.006	98	2435149	120.0	124.7	
87 Anthracene	178	8.957	8.951	0.006	98	2558329	120.0	126.6	
88 Carbazole	167	9.110	9.104	0.006	96	2315136	120.0	125.8	
89 Di-n-butyl phthalate	149	9.445	9.445	0.000	100	2835504	120.0	125.9	
90 Fluoranthene	202	10.033	10.028	0.005	97	2604987	120.0	126.2	
91 Benzidine	184	10.163	10.157	0.006	99	1683639	120.0	121.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.251	10.245	0.006	96	2660497	120.0	126.8	
93 Bisphenol-A	213	10.304	10.298	0.006	98	1159419	120.0	145.8	
$ 94 Terphenyl-d14	244	10.410	10.404	0.006	98	1984571	120.0	134.9	
95 Butyl benzyl phthalate	149	10.927	10.927	0.000	97	1241584	120.0	135.0	
97 Carbamazepine	193	11.051	11.039	0.012	93	1138426	120.0	143.2	
98 3,3'-Dichlorobenzidine	252	11.539	11.527	0.012	100	1006857	120.0	130.8	
99 Benzo[a]anthracene	228	11.557	11.551	0.006	100	2456173	120.0	124.2	
* 100 Chrysene-d12	240	11.569	11.563	0.005	98	637361	40.0	40.0	
101 Chrysene	228	11.604	11.598	0.006	98	2272530	120.0	126.5	
102 Bis(2-ethylhexyl) phthalat	149	11.621	11.622	-0.001	88	1767993	120.0	131.6	
103 Di-n-octyl phthalate	149	12.510	12.504	0.006	97	3099866	120.0	130.7	
104 Benzo[b]fluoranthene	252	13.010	12.992	0.018	98	2458916	120.0	129.5	
105 Benzo[k]fluoranthene	252	13.051	13.033	0.018	98	2527668	120.0	129.2	
106 Benzo[a]pyrene	252	13.480	13.463	0.017	96	2383167	120.0	132.2	
* 107 Perylene-d12	264	13.551	13.545	0.006	98	684870	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.245	15.221	0.024	99	2356190	120.0	141.8	M
109 Dibenz(a,h)anthracene	278	15.298	15.274	0.024	97	2285995	120.0	138.3	
110 Benzo[g,h,i]perylene	276	15.739	15.704	0.035	98	2333056	120.0	127.4	
S 117 Total Cresols	1				0			256.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L8_00017 Amount Added: 1.00 Units: mL

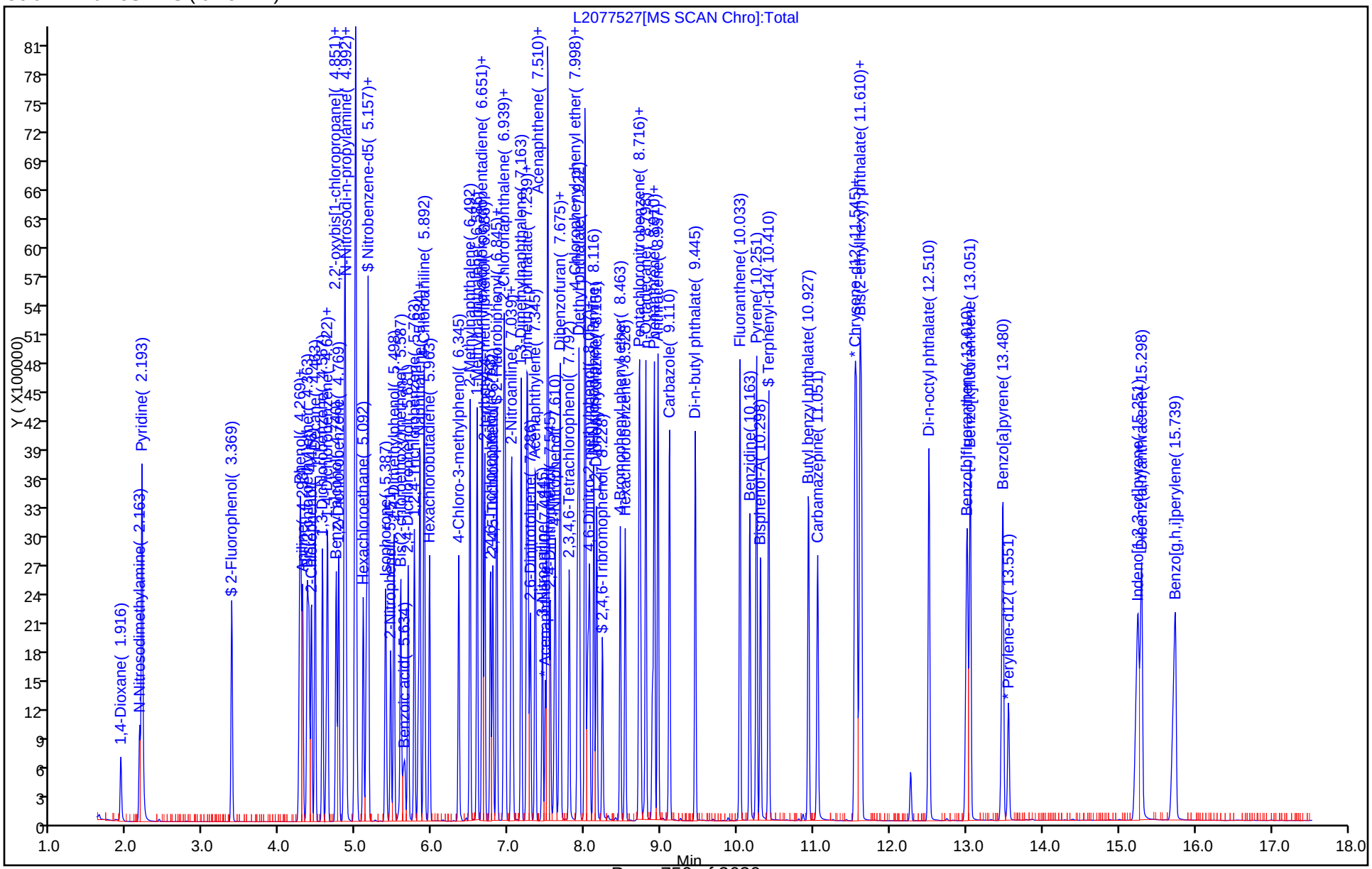
Report Date: 16-Mar-2018 10:24:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077527.d

Injection Date:	15-Mar-2018 15:25:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD120			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

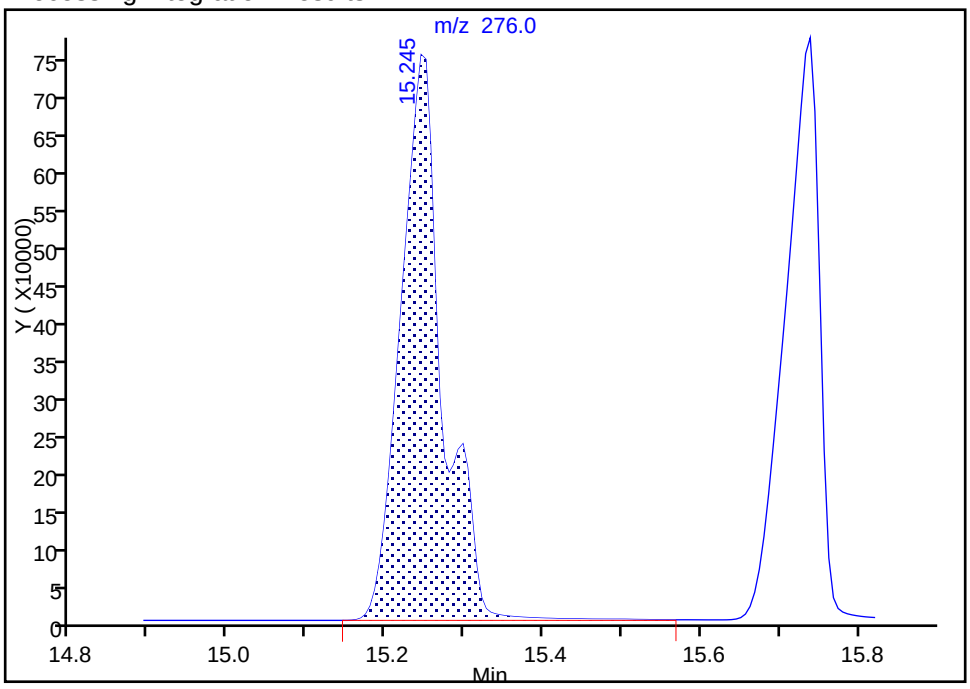
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077527.d				
Injection Date:	15-Mar-2018 15:25:30	Instrument ID:	CBNAMS12		
Lims ID:	STD120				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

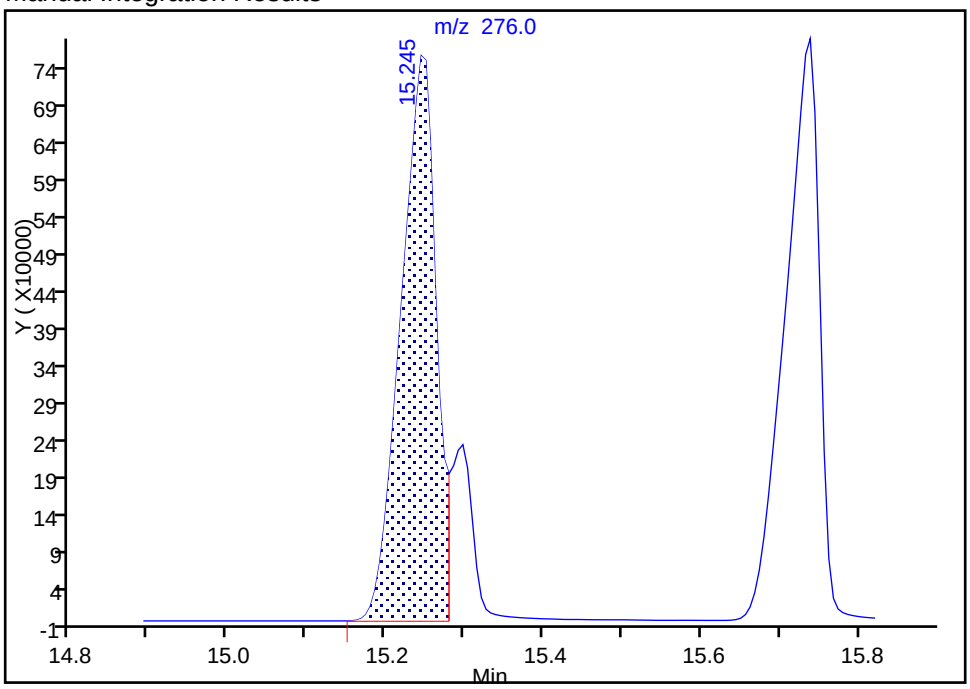
Processing Integration Results

RT: 15.24
Area: 2787819
Amount: 120.0000
Amount Units: ug/ml



Manual Integration Results

RT: 15.24
Area: 2356190
Amount: 141.8147
Amount Units: ug/ml



Reviewer: johnstonm1, 15-Mar-2018 15:47:42

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077528.d
Lims ID: STD80
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Mar-2018 15:48:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-004
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:24:39 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:43:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.916	0.000	95	206159	80.0	84.1	
2 N-Nitrosodimethylamine	74	2.163	2.157	0.006	78	357924	80.0	86.1	
3 Pyridine	79	2.193	2.193	0.000	90	1243045	160.0	175.0	
$ 4 2-Fluorophenol	112	3.369	3.369	0.000	92	558305	80.0	88.3	
$ 6 Phenol-d5	99	4.257	4.251	0.006	0	695538	80.0	88.3	
7 Phenol	94	4.269	4.263	0.006	97	751759	80.0	90.3	
8 Aniline	93	4.299	4.293	0.005	99	874701	80.0	86.7	
9 Bis(2-chloroethyl)ether	93	4.357	4.351	0.006	91	528316	80.0	84.7	
10 2-Chlorophenol	128	4.410	4.410	0.000	94	563808	80.0	87.4	
11 n-Decane	43	4.463	4.463	0.000	94	759496	80.0	85.5	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	639258	80.0	86.4	
* 13 1,4-Dichlorobenzene-d4	152	4.610	4.610	0.000	97	187049	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.628	4.622	0.006	94	642890	80.0	86.2	
15 Benzyl alcohol	108	4.734	4.734	0.000	92	381034	80.0	87.8	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	96	614989	80.0	86.8	
17 2-Methylphenol	108	4.840	4.840	0.000	90	518859	80.0	87.6	
18 2,2'-oxybis[1-chloropropan	45	4.869	4.863	0.006	92	1012306	80.0	85.2	
19 4-Methylphenol	108	4.993	4.987	0.006	73	586593	80.0	86.5	
21 N-Nitrosodi-n-propylamine	70	4.993	4.987	0.006	93	426349	80.0	84.4	
20 3 & 4 Methylphenol	108	4.993	4.987	0.006	81	586593	80.0	86.5	
22 Acetophenone	105	4.993	4.987	0.006	87	784900	80.0	84.4	
25 Hexachloroethane	117	5.093	5.093	0.000	95	240929	80.0	83.7	
$ 26 Nitrobenzene-d5	82	5.134	5.128	0.006	95	619109	80.0	85.7	
27 Nitrobenzene	123	5.151	5.146	0.005	90	273031	80.0	89.4	
28 n,n'-Dimethylaniline	120	5.157	5.151	0.006	97	814035	80.0	84.4	
29 Isophorone	82	5.381	5.375	0.006	98	1043821	80.0	86.1	
30 2-Nitrophenol	139	5.451	5.451	0.000	87	282623	80.0	91.9	
31 2,4-Dimethylphenol	122	5.493	5.493	0.000	90	493554	80.0	87.2	
32 Bis(2-chloroethoxy)methane	93	5.581	5.581	0.000	94	662847	80.0	85.7	
33 Benzoic acid	122	5.616	5.587	0.029	92	283136	80.0	83.5	
34 2,4-Dichlorophenol	162	5.681	5.675	0.006	95	480666	80.0	90.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.763	5.763	0.000	95	511988	80.0	86.0	
* 36 Naphthalene-d8	136	5.816	5.816	0.000	99	752162	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	99	1588434	80.0	84.8	
38 4-Chloroaniline	127	5.887	5.881	0.006	96	700059	80.0	86.4	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	95	283632	80.0	88.1	
41 4-Chloro-3-methylphenol	107	6.345	6.340	0.005	98	469043	80.0	87.8	
42 2-Methylnaphthalene	142	6.492	6.492	0.000	84	1083203	80.0	85.8	
43 1-Methylnaphthalene	142	6.587	6.587	0.000	93	1035941	80.0	86.2	
45 1,2,4,5-Tetrachlorobenzene	216	6.657	6.651	0.006	97	525420	80.0	86.6	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	97	352045	80.0	91.7	
46 2-tertbutyl-4-methylphenol	149	6.687	6.681	0.006	90	670462	80.0	85.4	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	90	345464	80.0	93.7	
49 2,4,5-Trichlorophenol	196	6.792	6.787	0.005	97	373322	80.0	85.7	
$ 50 2-Fluorobiphenyl	172	6.840	6.840	0.000	97	1194395	80.0	85.4	
51 1,1'-Biphenyl	154	6.934	6.934	0.000	97	1289742	80.0	85.0	
52 2-Chloronaphthalene	162	6.951	6.951	0.000	98	1015656	80.0	84.8	
53 Phenyl ether	170	7.034	7.034	0.000	91	637620	80.0	84.5	
54 2-Nitroaniline	65	7.051	7.045	0.006	97	385502	80.0	86.8	
55 1,3-Dimethylnaphthalene	156	7.163	7.163	0.000	91	799158	80.0	84.0	
58 Dimethyl phthalate	163	7.234	7.228	0.006	99	1158296	80.0	85.0	
59 Coumarin	146	7.245	7.239	0.006	81	398465	80.0	84.4	
60 2,6-Dinitrotoluene	165	7.281	7.275	0.006	93	254232	80.0	95.3	
61 Acenaphthylene	152	7.345	7.345	0.000	97	1532514	80.0	85.1	
62 3-Nitroaniline	138	7.439	7.434	0.005	93	293656	80.0	89.0	
* 63 Acenaphthene-d10	164	7.481	7.481	0.000	99	368814	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.510	7.504	0.006	98	852422	80.0	86.3	
65 Acenaphthene	154	7.510	7.510	0.000	96	1092322	80.0	88.7	
66 2,4-Dinitrophenol	184	7.539	7.534	0.005	91	283088	160.0	159.8	
67 4-Nitrophenol	65	7.604	7.598	0.006	91	468900	160.0	174.3	
68 2,4-Dinitrotoluene	165	7.663	7.657	0.006	92	343103	80.0	97.2	
69 Dibenzofuran	168	7.675	7.675	0.000	97	1426786	80.0	84.7	
70 2,3,4,6-Tetrachlorophenol	232	7.792	7.792	0.000	93	291980	80.0	90.1	
71 Diethyl phthalate	149	7.898	7.898	0.000	98	1168760	80.0	84.3	
74 Fluorene	166	7.998	7.998	0.000	94	1156032	80.0	84.9	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	76	533825	80.0	85.2	
75 4-Nitroaniline	138	8.028	8.016	0.012	93	305809	80.0	87.5	
76 4,6-Dinitro-2-methylphenol	198	8.051	8.045	0.006	83	332721	160.0	159.9	
77 N-Nitrosodiphenylamine	169	8.116	8.110	0.006	100	816621	80.0	86.9	
78 1,2-Diphenylhydrazine	77	8.151	8.145	0.006	99	1180219	80.0	83.7	
$ 79 2,4,6-Tribromophenol	330	8.228	8.222	0.006	95	192872	80.0	98.0	
80 4-Bromophenyl phenyl ether	248	8.463	8.457	0.006	89	331581	80.0	88.1	
81 Hexachlorobenzene	284	8.528	8.522	0.006	98	364155	80.0	87.1	
83 Pentachlorophenol	266	8.710	8.704	0.006	94	471692	160.0	209.3	
84 Pentachloronitrobenzene	237	8.728	8.722	0.006	89	149917	80.0	89.8	
72 n-Octadecane	57	8.798	8.798	0.000	92	942181	80.0	85.5	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	690535	40.0	40.0	
86 Phenanthrene	178	8.904	8.904	0.000	98	1691741	80.0	85.6	
87 Anthracene	178	8.957	8.951	0.006	98	1760165	80.0	86.0	
88 Carbazole	167	9.104	9.104	0.000	96	1609560	80.0	86.4	
89 Di-n-butyl phthalate	149	9.445	9.445	0.000	100	1946747	80.0	85.4	
90 Fluoranthene	202	10.033	10.028	0.005	97	1823317	80.0	87.2	
91 Benzidine	184	10.157	10.157	0.000	100	1130837	80.0	81.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.245	10.245	0.000	96	1855196	80.0	86.4	
93 Bisphenol-A	213	10.298	10.298	0.000	98	804895	80.0	98.9	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	98	1321522	80.0	87.8	
95 Butyl benzyl phthalate	149	10.927	10.927	0.000	97	855154	80.0	90.9	
97 Carbamazepine	193	11.045	11.039	0.006	93	765009	80.0	94.1	
98 3,3'-Dichlorobenzidine	252	11.533	11.527	0.006	100	673885	80.0	85.9	
99 Benzo[a]anthracene	228	11.551	11.551	0.000	100	1687142	80.0	83.4	
* 100 Chrysene-d12	240	11.569	11.563	0.006	98	652160	40.0	40.0	
101 Chrysene	228	11.598	11.598	0.000	98	1572171	80.0	85.5	
102 Bis(2-ethylhexyl) phthalat	149	11.622	11.622	0.000	89	1224897	80.0	89.1	
103 Di-n-octyl phthalate	149	12.510	12.504	0.006	97	2150233	80.0	88.5	
104 Benzo[b]fluoranthene	252	13.004	12.992	0.012	98	1712047	80.0	88.0	
105 Benzo[k]fluoranthene	252	13.045	13.033	0.012	99	1748969	80.0	87.3	
106 Benzo[a]pyrene	252	13.474	13.463	0.011	96	1668821	80.0	90.4	
* 107 Perylene-d12	264	13.551	13.545	0.006	98	701446	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.239	15.221	0.018	98	1612068	80.0	94.7	M
109 Dibenz(a,h)anthracene	278	15.286	15.274	0.012	97	1578590	80.0	93.2	
110 Benzo[g,h,i]perylene	276	15.727	15.704	0.023	96	1643176	80.0	87.6	
S 117 Total Cresols	1				0			174.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L7_00017 Amount Added: 1.00 Units: mL

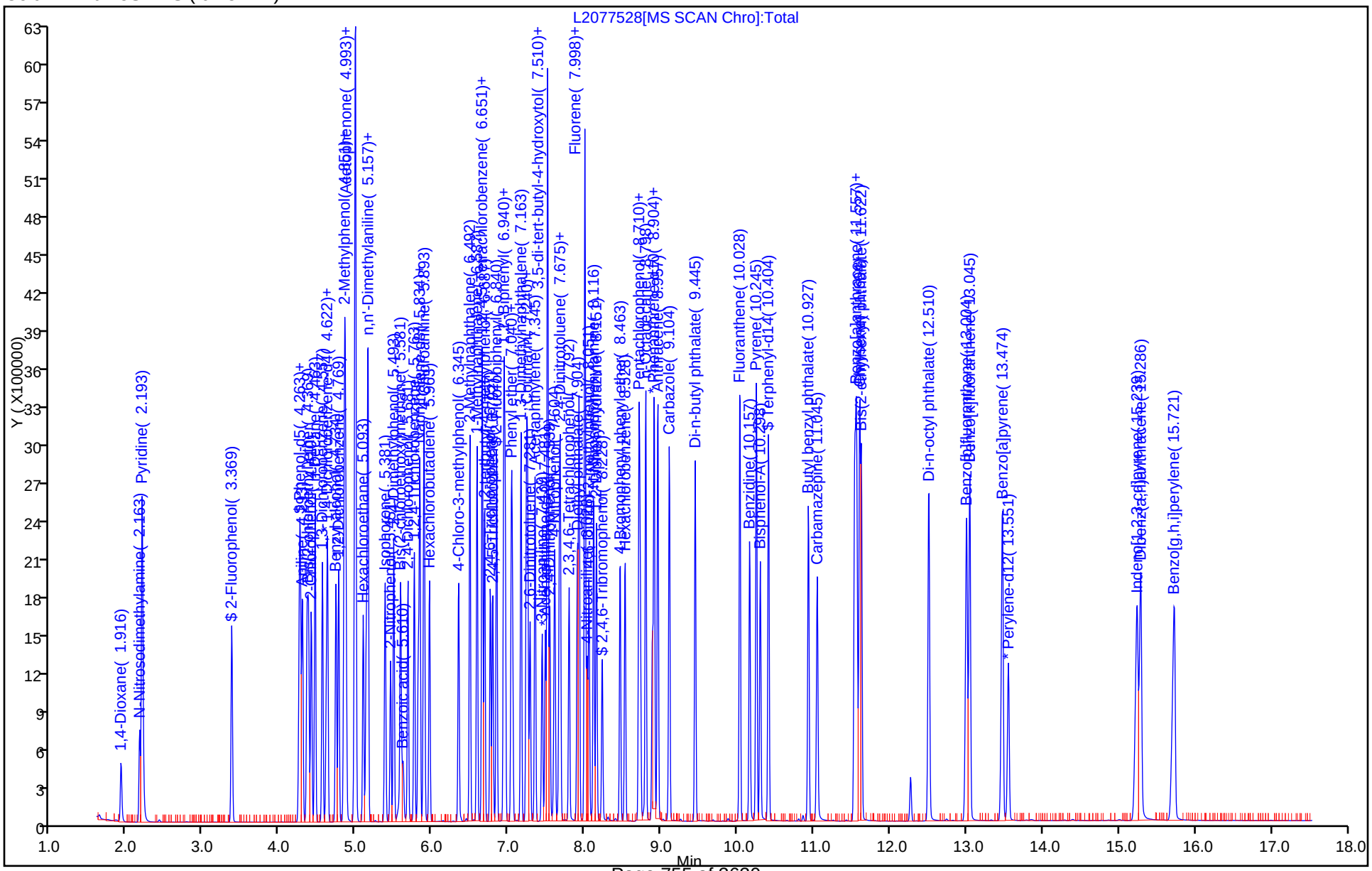
Report Date: 16-Mar-2018 10:24:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077528.d

Injection Date:	15-Mar-2018 15:48:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD80			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

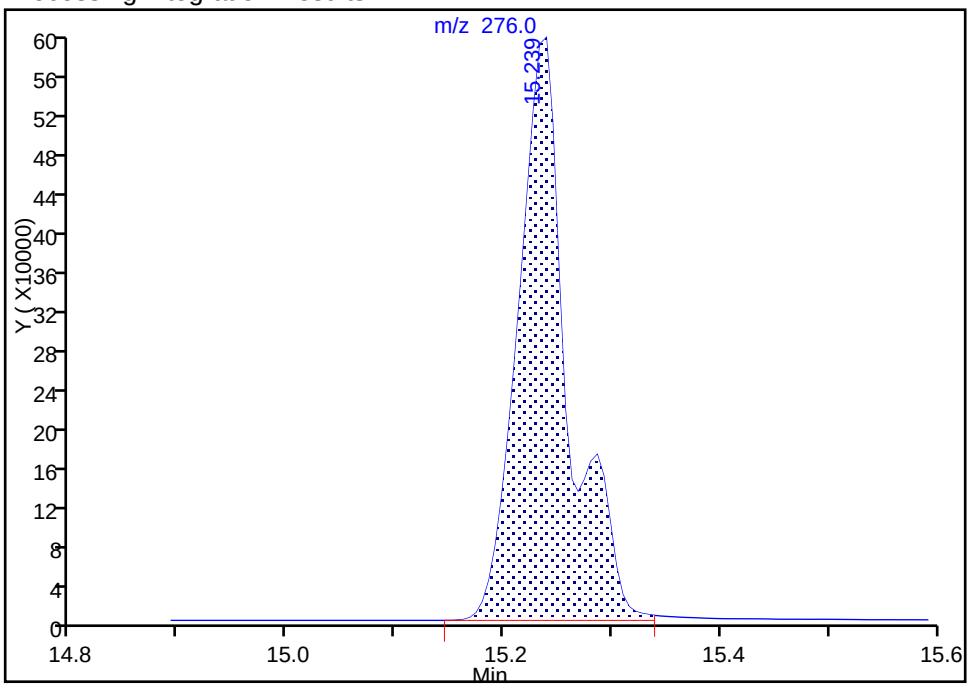
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077528.d
Injection Date: 15-Mar-2018 15:48:30 Instrument ID: CBNAMS12
Lims ID: STD80
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

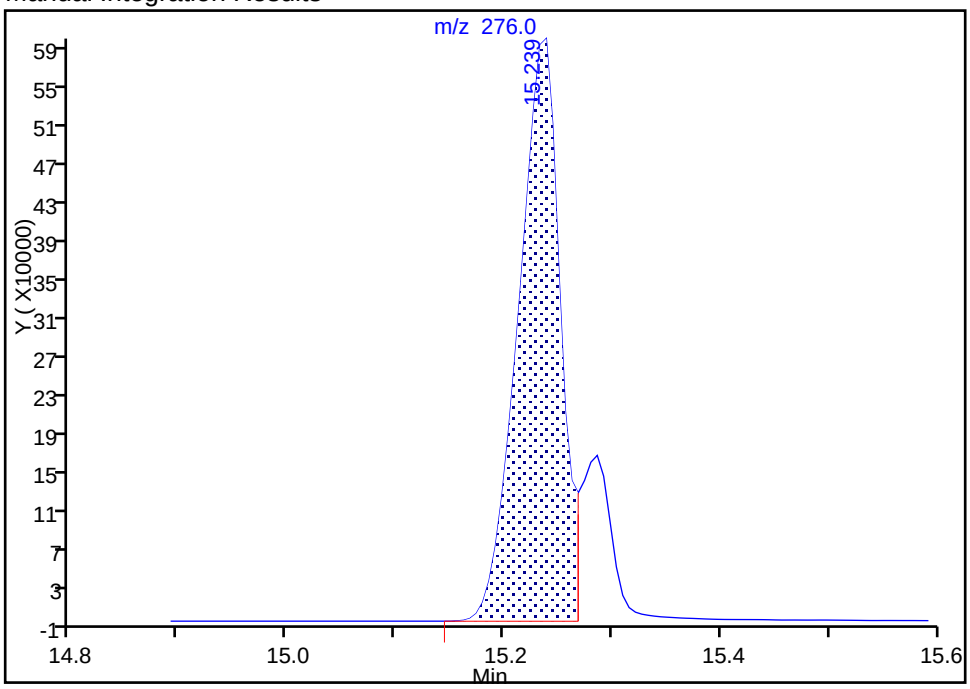
Processing Integration Results

RT: 15.24
Area: 1911012
Amount: 100.9821
Amount Units: ug/ml



Manual Integration Results

RT: 15.24
Area: 1612068
Amount: 94.734523
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:43:03
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077529.d
Lims ID: STD20
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Mar-2018 16:11:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-005
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:24:46 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:44:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.922	1.916	0.006	95	50322	20.0	18.4	
2 N-Nitrosodimethylamine	74	2.157	2.157	0.000	77	85720	20.0	18.5	
3 Pyridine	79	2.193	2.193	0.000	80	298196	40.0	37.6	
$ 4 2-Fluorophenol	112	3.369	3.369	0.000	93	128597	20.0	18.2	
$ 6 Phenol-d5	99	4.246	4.251	-0.005	0	160095	20.0	18.2	
7 Phenol	94	4.257	4.263	-0.006	97	164461	20.0	17.7	
8 Aniline	93	4.293	4.293	0.000	99	206103	20.0	18.3	
9 Bis(2-chloroethyl)ether	93	4.351	4.351	0.000	95	127835	20.0	18.4	
10 2-Chlorophenol	128	4.404	4.410	-0.006	93	132992	20.0	18.4	
11 n-Decane	43	4.457	4.463	-0.006	94	186559	20.0	18.8	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	153723	20.0	18.6	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	97	208980	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.622	4.622	0.000	93	154697	20.0	18.6	
15 Benzyl alcohol	108	4.728	4.734	-0.006	91	89347	20.0	18.4	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	95	146728	20.0	18.5	
17 2-Methylphenol	108	4.834	4.840	-0.006	90	122427	20.0	18.5	
18 2,2'-oxybis[1-chloropropan	45	4.863	4.863	0.000	92	248640	20.0	18.7	
20 3 & 4 Methylphenol	108	4.981	4.987	-0.006	85	138992	20.0	18.3	
22 Acetophenone	105	4.981	4.987	-0.006	88	193557	20.0	18.6	
19 4-Methylphenol	108	4.981	4.987	-0.006	75	138992	20.0	18.3	
21 N-Nitrosodi-n-propylamine	70	4.987	4.987	0.000	94	103596	20.0	18.4	
25 Hexachloroethane	117	5.093	5.093	0.000	95	58930	20.0	18.3	
$ 26 Nitrobenzene-d5	82	5.128	5.128	0.000	92	141908	20.0	17.9	
27 Nitrobenzene	123	5.145	5.146	-0.001	90	64014	20.0	18.8	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	93	200153	20.0	18.6	
29 Isophorone	82	5.369	5.375	-0.006	98	246416	20.0	18.5	
30 2-Nitrophenol	139	5.451	5.451	0.000	87	61644	20.0	18.2	
31 2,4-Dimethylphenol	122	5.487	5.493	-0.006	90	116266	20.0	18.7	
32 Bis(2-chloroethoxy)methane	93	5.575	5.581	-0.006	94	157510	20.0	18.5	
33 Benzoic acid	122	5.557	5.587	-0.030	93	60657	20.0	20.0	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	94	108888	20.0	18.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	94	121237	20.0	18.5	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	826075	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	99	383634	20.0	18.6	
38 4-Chloroaniline	127	5.881	5.881	0.000	97	163977	20.0	18.4	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	95	66035	20.0	18.7	
41 4-Chloro-3-methylphenol	107	6.340	6.340	0.000	97	107448	20.0	18.3	
42 2-Methylnaphthalene	142	6.487	6.492	-0.005	84	257141	20.0	18.5	
43 1-Methylnaphthalene	142	6.581	6.587	-0.006	93	243180	20.0	18.4	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	96	75908	20.0	18.1	
45 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	122794	20.0	18.6	
46 2-tertbutyl-4-methylphenol	149	6.681	6.681	0.000	89	160204	20.0	18.6	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	88	73056	20.0	18.2	
49 2,4,5-Trichlorophenol	196	6.787	6.787	0.000	97	90644	20.0	19.1	
$ 50 2-Fluorobiphenyl	172	6.839	6.840	-0.001	97	278182	20.0	18.2	
51 1,1'-Biphenyl	154	6.934	6.934	0.000	97	311607	20.0	18.8	
52 2-Chloronaphthalene	162	6.951	6.951	0.000	99	245947	20.0	18.8	
53 Phenyl ether	170	7.034	7.034	0.000	91	151566	20.0	18.4	
54 2-Nitroaniline	65	7.039	7.045	-0.006	96	90348	20.0	18.7	
55 1,3-Dimethylnaphthalene	156	7.157	7.163	-0.006	91	191844	20.0	18.5	
58 Dimethyl phthalate	163	7.222	7.228	-0.006	97	274068	20.0	18.4	
59 Coumarin	146	7.239	7.239	0.000	79	95207	20.0	18.4	
60 2,6-Dinitrotoluene	165	7.275	7.275	0.000	92	57385	20.0	19.7	
61 Acenaphthylene	152	7.339	7.345	-0.006	97	365289	20.0	18.6	
62 3-Nitroaniline	138	7.428	7.434	-0.006	92	67322	20.0	18.7	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	402008	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.504	7.504	0.000	98	197959	20.0	18.4	
65 Acenaphthene	154	7.510	7.510	0.000	96	254661	20.0	19.0	
66 2,4-Dinitrophenol	184	7.528	7.534	-0.006	90	51440	40.0	39.1	
67 4-Nitrophenol	65	7.587	7.598	-0.012	91	111600	40.0	38.1	
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	93	77491	20.0	20.1	
69 Dibenzofuran	168	7.669	7.675	-0.006	96	341125	20.0	18.6	
70 2,3,4,6-Tetrachlorophenol	232	7.786	7.792	-0.006	92	63070	20.0	17.8	
71 Diethyl phthalate	149	7.892	7.898	-0.006	98	280937	20.0	18.6	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	84	125091	20.0	18.3	
74 Fluorene	166	7.992	7.998	-0.006	95	277217	20.0	18.7	
75 4-Nitroaniline	138	8.010	8.016	-0.006	94	72059	20.0	18.9	
76 4,6-Dinitro-2-methylphenol	198	8.039	8.045	-0.006	79	64651	40.0	39.7	
77 N-Nitrosodiphenylamine	169	8.104	8.110	-0.006	100	195117	20.0	18.8	
78 1,2-Diphenylhydrazine	77	8.145	8.145	0.000	100	293752	20.0	18.8	
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	95	41199	20.0	19.2	
80 4-Bromophenyl phenyl ether	248	8.457	8.457	0.000	95	75268	20.0	18.1	
81 Hexachlorobenzene	284	8.522	8.522	0.000	98	83486	20.0	18.0	
83 Pentachlorophenol	266	8.704	8.704	0.000	94	95001	40.0	38.1	
84 Pentachloronitrobenzene	237	8.722	8.722	0.000	87	33616	20.0	18.2	
72 n-Octadecane	57	8.792	8.798	-0.006	92	232990	20.0	19.1	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	764126	40.0	40.0	
86 Phenanthrene	178	8.904	8.904	0.000	97	411616	20.0	18.8	
87 Anthracene	178	8.951	8.951	0.000	98	419906	20.0	18.5	
88 Carbazole	167	9.098	9.104	-0.006	96	386177	20.0	18.7	
89 Di-n-butyl phthalate	149	9.439	9.445	-0.006	99	475986	20.0	18.9	
90 Fluoranthene	202	10.028	10.028	0.000	97	430897	20.0	18.6	
91 Benzidine	184	10.151	10.157	-0.006	99	258909	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.239	10.245	-0.006	97	443075	20.0	18.8	
93 Bisphenol-A	213	10.292	10.298	-0.006	98	166505	20.0	18.6	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	98	307971	20.0	18.6	
95 Butyl benzyl phthalate	149	10.922	10.927	-0.005	97	194066	20.0	18.8	
97 Carbamazepine	193	11.033	11.039	-0.006	93	168656	20.0	18.9	
98 3,3'-Dichlorobenzidine	252	11.522	11.527	-0.005	100	152254	20.0	18.5	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	100	403193	20.0	18.1	
* 100 Chrysene-d12	240	11.563	11.563	0.000	99	717068	40.0	40.0	
101 Chrysene	228	11.592	11.598	-0.006	98	381858	20.0	18.9	
102 Bis(2-ethylhexyl) phthalat	149	11.622	11.622	0.000	88	283105	20.0	18.7	
103 Di-n-octyl phthalate	149	12.504	12.504	0.000	97	493475	20.0	18.8	
104 Benzo[b]fluoranthene	252	12.986	12.992	-0.006	98	411095	20.0	19.5	
105 Benzo[k]fluoranthene	252	13.027	13.033	-0.006	99	401048	20.0	18.5	
106 Benzo[a]pyrene	252	13.457	13.463	-0.006	96	382043	20.0	19.1	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	759587	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.210	15.221	-0.011	98	359637	20.0	19.5	M
109 Dibenz(a,h)anthracene	278	15.262	15.274	-0.012	97	359425	20.0	19.6	
110 Benzo[g,h,i]perylene	276	15.692	15.704	-0.012	96	378270	20.0	18.6	
S 117 Total Cresols	1				0			36.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L5_00017 Amount Added: 1.00 Units: mL

Report Date: 16-Mar-2018 10:24:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077529.d

Injection Date: 15-Mar-2018 16:11:30 Instrument ID: CBNAMS12 Operator ID:

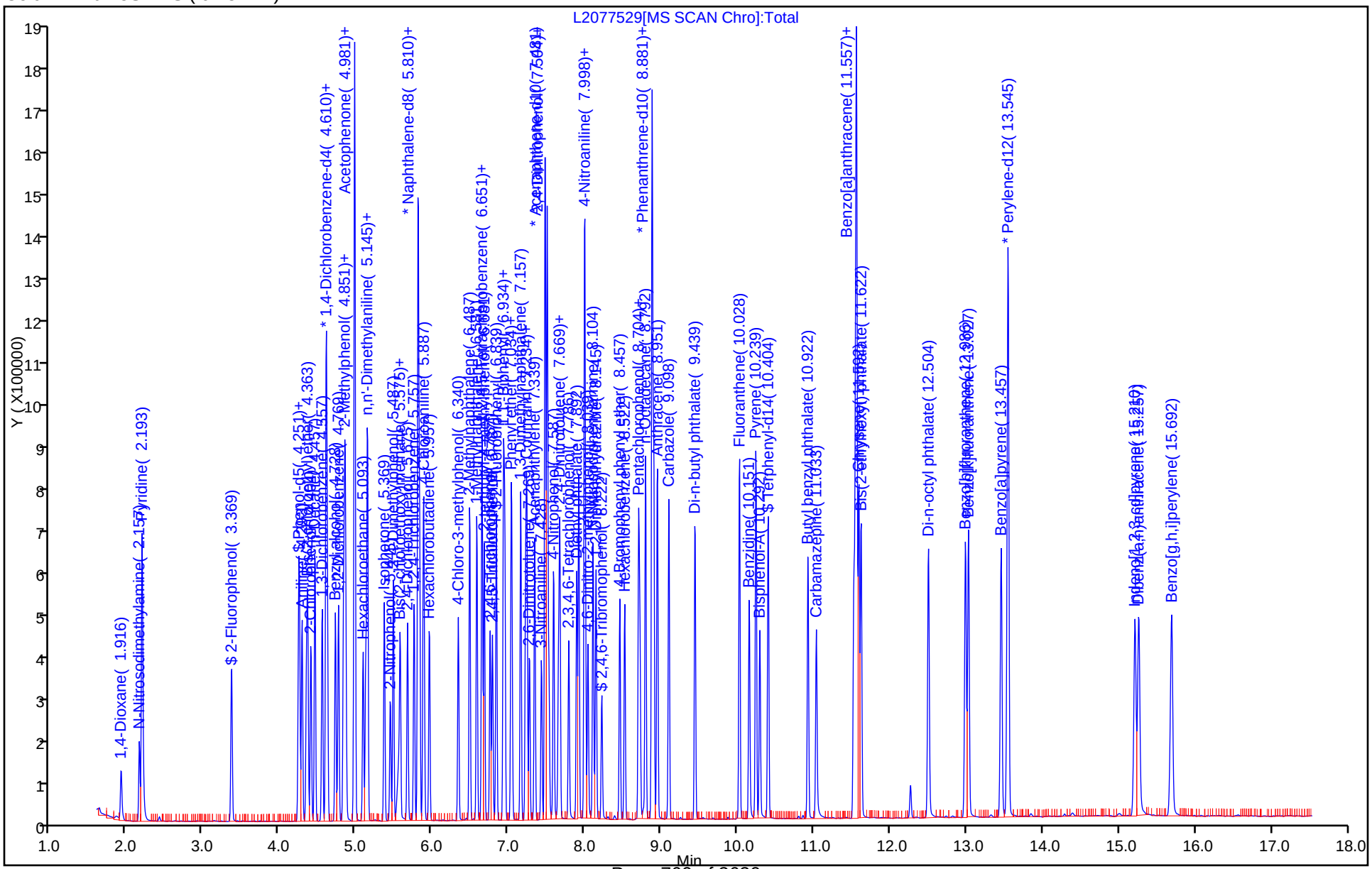
Lims ID: STD20 Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

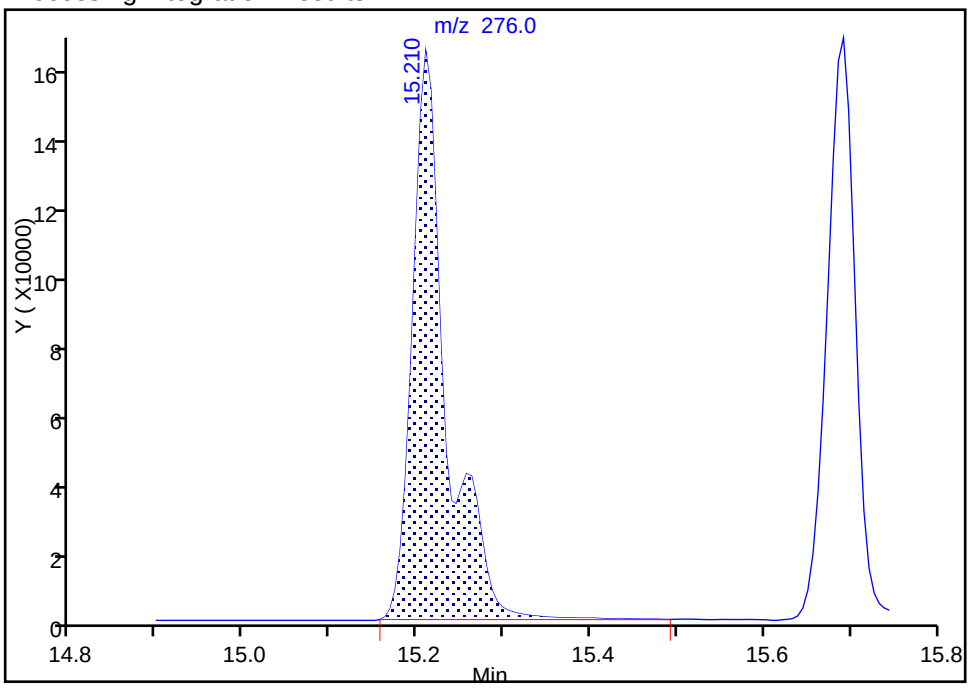
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077529.d				
Injection Date:	15-Mar-2018 16:11:30	Instrument ID:	CBNAMS12		
Lims ID:	STD20				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

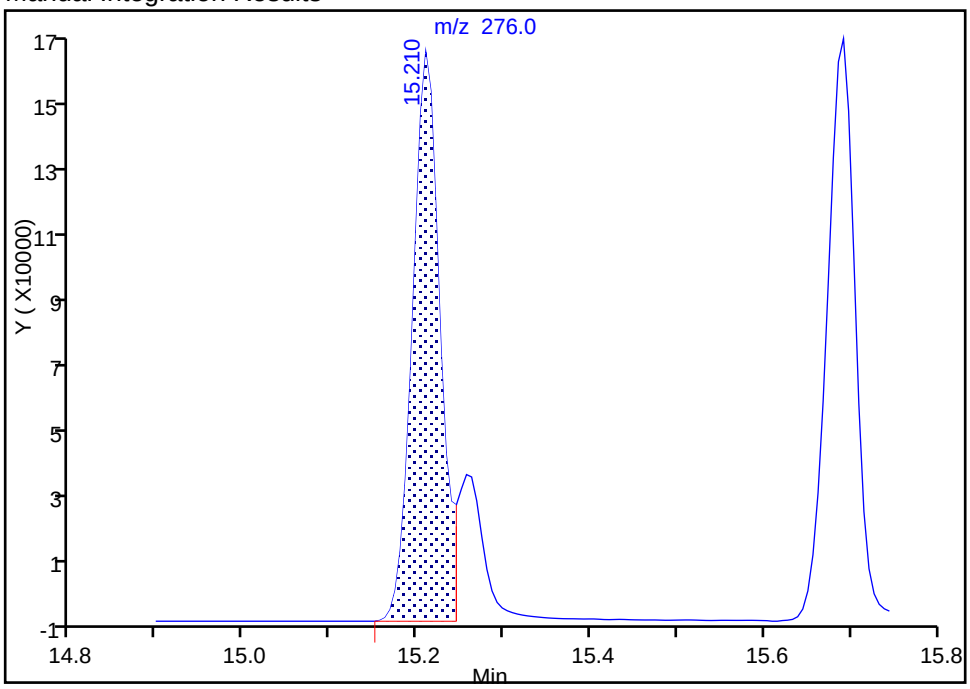
Processing Integration Results

RT: 15.21
Area: 439427
Amount: 21.923954
Amount Units: ug/ml



Manual Integration Results

RT: 15.21
Area: 359637
Amount: 19.516683
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:43:47

Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 16-Mar-2018 10:24:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077530.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Mar-2018 16:34:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-006
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:24:54 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:46:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.916	0.000	95	25039	10.0	9.49	
2 N-Nitrosodimethylamine	74	2.157	2.157	0.000	78	42233	10.0	9.43	
3 Pyridine	79	2.193	2.193	0.000	81	143200	20.0	18.7	
$ 4 2-Fluorophenol	112	3.363	3.369	-0.006	93	63179	10.0	9.28	
$ 6 Phenol-d5	99	4.245	4.251	-0.006	0	77899	10.0	9.18	
7 Phenol	94	4.257	4.263	-0.006	97	82583	10.0	9.21	
8 Aniline	93	4.287	4.293	-0.006	98	102356	10.0	9.42	
9 Bis(2-chloroethyl)ether	93	4.345	4.351	-0.006	93	62821	10.0	9.36	
10 2-Chlorophenol	128	4.404	4.410	-0.006	92	63956	10.0	9.20	
11 n-Decane	43	4.457	4.463	-0.006	94	92616	10.0	9.68	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	75929	10.0	9.53	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	97	201431	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.622	4.622	0.000	95	76746	10.0	9.56	
15 Benzyl alcohol	108	4.728	4.734	-0.006	90	42798	10.0	9.15	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	95	71405	10.0	9.36	
17 2-Methylphenol	108	4.834	4.840	-0.006	91	59279	10.0	9.30	
18 2,2'-oxybis[1-chloropropan	45	4.863	4.863	0.000	91	123784	10.0	9.68	
19 4-Methylphenol	108	4.981	4.987	-0.006	75	67229	10.0	9.20	
21 N-Nitrosodi-n-propylamine	70	4.981	4.987	-0.006	94	50305	10.0	9.25	
20 3 & 4 Methylphenol	108	4.981	4.987	-0.006	85	67229	10.0	9.20	
22 Acetophenone	105	4.981	4.987	-0.006	88	93815	10.0	9.36	
25 Hexachloroethane	117	5.092	5.093	-0.001	92	27721	10.0	8.95	
$ 26 Nitrobenzene-d5	82	5.122	5.128	-0.006	93	69281	10.0	8.93	
27 Nitrobenzene	123	5.145	5.146	-0.001	89	31418	10.0	9.55	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	94	92505	10.0	8.91	
29 Isophorone	82	5.369	5.375	-0.006	98	123603	10.0	9.50	
30 2-Nitrophenol	139	5.445	5.451	-0.006	85	29147	10.0	8.83	
31 2,4-Dimethylphenol	122	5.487	5.493	-0.006	91	57238	10.0	9.42	
32 Bis(2-chloroethoxy)methane	93	5.575	5.581	-0.006	94	77409	10.0	9.32	
33 Benzoic acid	122	5.539	5.587	-0.048	92	22130	10.0	9.75	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	94	53326	10.0	9.34	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	94	59231	10.0	9.27	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	807202	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	98	190460	10.0	9.47	
38 4-Chloroaniline	127	5.881	5.881	0.000	96	81322	10.0	9.35	
39 Hexachlorobutadiene	225	5.957	5.963	-0.006	94	32149	10.0	9.30	
41 4-Chloro-3-methylphenol	107	6.339	6.340	-0.001	96	52903	10.0	9.23	
42 2-Methylnaphthalene	142	6.486	6.492	-0.006	84	125708	10.0	9.28	
43 1-Methylnaphthalene	142	6.581	6.587	-0.006	93	120719	10.0	9.36	
45 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	59210	10.0	9.22	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	96	35082	10.0	8.64	
46 2-tertbutyl-4-methylphenol	149	6.681	6.681	0.000	89	73162	10.0	8.68	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	89	36087	10.0	9.26	
49 2,4,5-Trichlorophenol	196	6.786	6.787	-0.001	96	43834	10.0	9.51	
$ 50 2-Fluorobiphenyl	172	6.839	6.840	-0.001	98	137738	10.0	9.31	
51 1,1'-Biphenyl	154	6.934	6.934	0.000	97	152626	10.0	9.51	
52 2-Chloronaphthalene	162	6.951	6.951	0.000	98	120374	10.0	9.50	
53 Phenyl ether	170	7.034	7.034	0.000	92	71724	10.0	8.99	
54 2-Nitroaniline	65	7.039	7.045	-0.006	94	42986	10.0	9.15	
55 1,3-Dimethylnaphthalene	156	7.157	7.163	-0.006	91	90746	10.0	9.01	
58 Dimethyl phthalate	163	7.222	7.228	-0.006	1	136988	10.0	9.50	Ma
59 Coumarin	146	7.233	7.239	-0.006	78	45173	10.0	8.92	
60 2,6-Dinitrotoluene	165	7.269	7.275	-0.006	92	27087	10.0	9.60	
61 Acenaphthylene	152	7.339	7.345	-0.006	97	180783	10.0	9.49	
62 3-Nitroaniline	138	7.428	7.434	-0.006	91	31077	10.0	8.90	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	390141	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.504	7.504	0.000	98	91499	10.0	8.76	
65 Acenaphthene	154	7.504	7.510	-0.006	96	123467	10.0	9.48	
66 2,4-Dinitrophenol	184	7.528	7.534	-0.006	89	21540	20.0	19.5	
67 4-Nitrophenol	65	7.586	7.598	-0.012	90	53045	20.0	18.6	
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	91	35207	10.0	9.43	
69 Dibenzofuran	168	7.669	7.675	-0.006	96	171880	10.0	9.65	
70 2,3,4,6-Tetrachlorophenol	232	7.786	7.792	-0.006	93	31270	10.0	9.12	
71 Diethyl phthalate	149	7.892	7.898	-0.006	98	139150	10.0	9.49	
74 Fluorene	166	7.992	7.998	-0.006	96	135803	10.0	9.42	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	85	62525	10.0	9.44	
75 4-Nitroaniline	138	8.004	8.016	-0.012	96	33752	10.0	9.12	
76 4,6-Dinitro-2-methylphenol	198	8.039	8.045	-0.006	77	26790	20.0	19.2	
77 N-Nitrosodiphenylamine	169	8.104	8.110	-0.006	99	96443	10.0	9.50	
78 1,2-Diphenylhydrazine	77	8.145	8.145	0.000	100	147157	10.0	9.66	
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	95	19224	10.0	9.24	
80 4-Bromophenyl phenyl ether	248	8.457	8.457	0.000	86	37569	10.0	9.24	
81 Hexachlorobenzene	284	8.522	8.522	0.000	98	41800	10.0	9.25	
83 Pentachlorophenol	266	8.704	8.704	0.000	93	44095	20.0	18.1	
84 Pentachloronitrobenzene	237	8.722	8.722	0.000	87	15127	10.0	8.39	
72 n-Octadecane	57	8.792	8.798	-0.006	92	114672	10.0	9.63	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	745910	40.0	40.0	
86 Phenanthrene	178	8.898	8.904	-0.006	97	202482	10.0	9.48	
87 Anthracene	178	8.945	8.951	-0.006	98	210992	10.0	9.55	
88 Carbazole	167	9.098	9.104	-0.006	96	188455	10.0	9.36	
89 Di-n-butyl phthalate	149	9.439	9.445	-0.006	99	231743	10.0	9.41	
90 Fluoranthene	202	10.027	10.028	-0.001	97	210963	10.0	9.34	
91 Benzidine	184	10.151	10.157	-0.006	99	115429	10.0	10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.239	10.245	-0.006	97	219976	10.0	9.65	
93 Bisphenol-A	213	10.292	10.298	-0.006	97	74075	10.0	8.57	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	98	147739	10.0	9.24	
95 Butyl benzyl phthalate	149	10.921	10.927	-0.006	98	90544	10.0	9.06	
97 Carbamazepine	193	11.033	11.039	-0.006	93	73871	10.0	8.55	
98 3,3'-Dichlorobenzidine	252	11.521	11.527	-0.006	100	69326	10.0	9.32	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	99	201802	10.0	9.39	
* 100 Chrysene-d12	240	11.557	11.563	-0.006	99	692563	40.0	40.0	
101 Chrysene	228	11.586	11.598	-0.012	98	188568	10.0	9.66	
102 Bis(2-ethylhexyl) phthalat	149	11.621	11.622	-0.001	87	136462	10.0	9.35	
103 Di-n-octyl phthalate	149	12.504	12.504	0.000	97	228878	10.0	9.12	
104 Benzo[b]fluoranthene	252	12.986	12.992	-0.006	98	186413	10.0	9.28	
105 Benzo[k]fluoranthene	252	13.021	13.033	-0.012	99	204239	10.0	9.87	
106 Benzo[a]pyrene	252	13.451	13.463	-0.012	96	181218	10.0	9.50	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	724392	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.204	15.221	-0.017	99	167054	10.0	9.51	M
109 Dibenz(a,h)anthracene	278	15.257	15.274	-0.018	96	169888	10.0	9.71	
110 Benzo[g,h,i]perylene	276	15.686	15.704	-0.018	96	181954	10.0	9.40	
S 117 Total Cresols	1				0			18.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L4_00017 Amount Added: 1.00 Units: mL

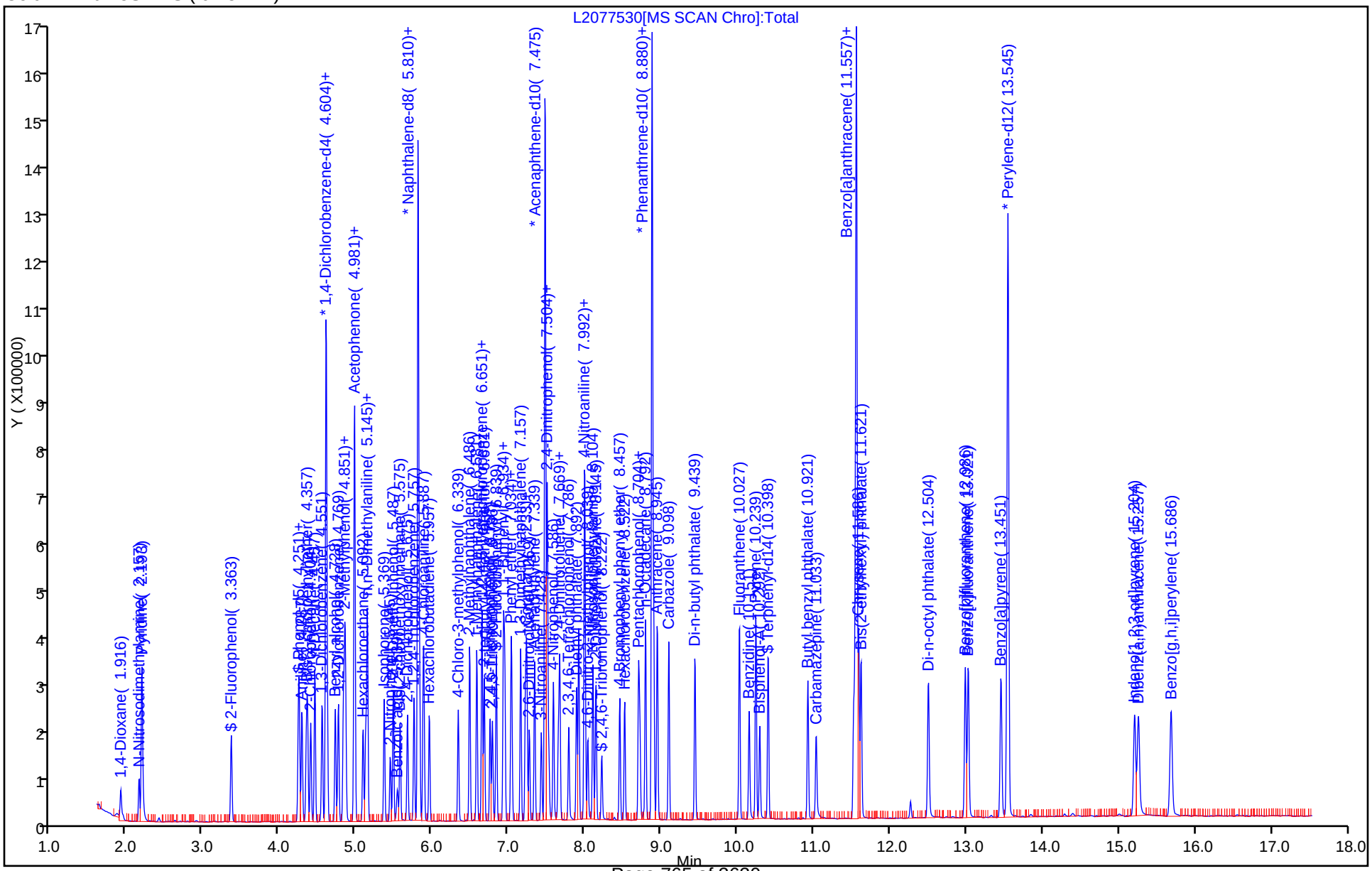
Report Date: 16-Mar-2018 10:24:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077530.d

Injection Date:	15-Mar-2018 16:34:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD10			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

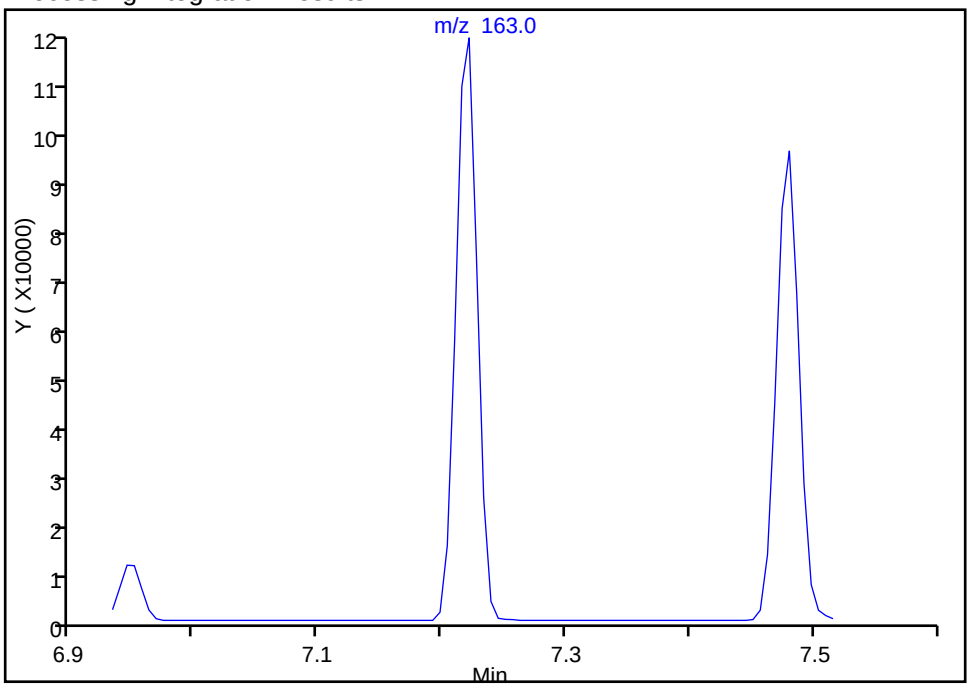
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077530.d				
Injection Date:	15-Mar-2018 16:34:30	Instrument ID:	CBNAMS12		
Lims ID:	STD10				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

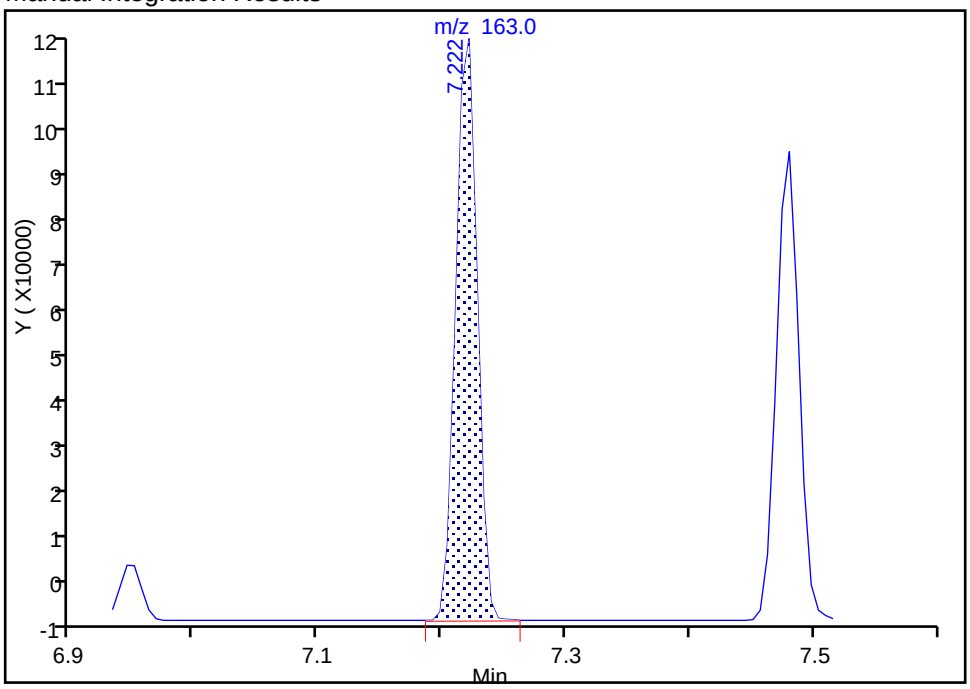
Processing Integration Results

Not Detected
Expected RT: 7.23



Manual Integration Results

RT: 7.22
Area: 136988
Amount: 9.498886
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:45:38
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

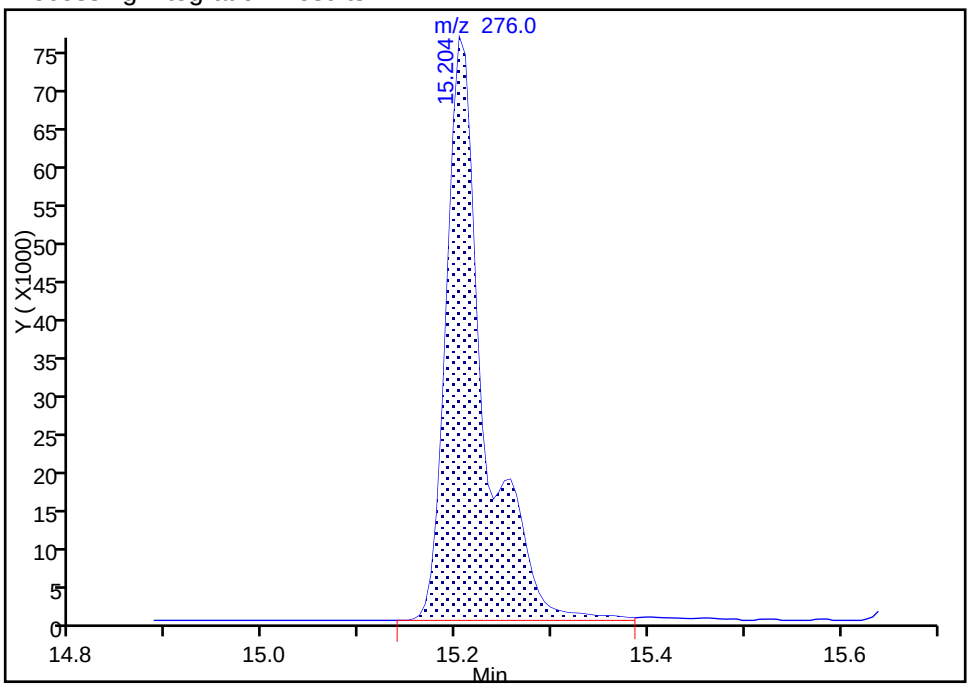
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077530.d				
Injection Date:	15-Mar-2018 16:34:30	Instrument ID:	CBNAMS12		
Lims ID:	STD10				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

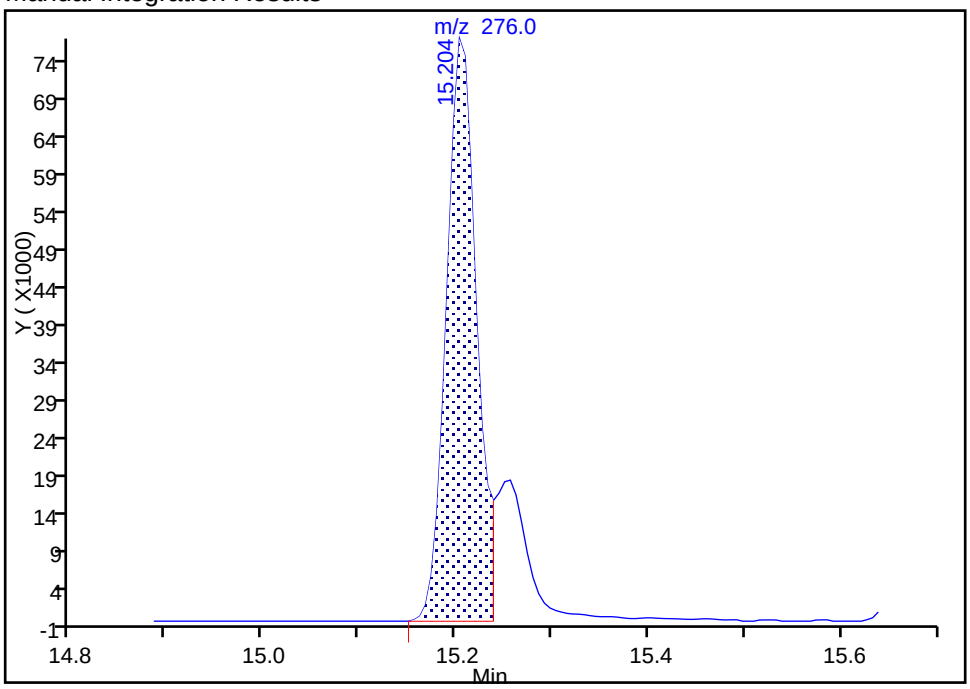
Processing Integration Results

RT: 15.20
Area: 208075
Amount: 11.131883
Amount Units: ug/ml



Manual Integration Results

RT: 15.20
Area: 167054
Amount: 9.506100
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:46:22

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077531.d
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Mar-2018 16:56:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-007
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:02 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:48:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.916	0.000	93	11970	5.00	5.48	
2 N-Nitrosodimethylamine	74	2.157	2.157	0.000	77	18764	5.00	5.06	
3 Pyridine	79	2.198	2.193	0.005	81	61376	10.0	9.69	
$ 4 2-Fluorophenol	112	3.363	3.369	-0.006	92	27448	5.00	4.87	
$ 6 Phenol-d5	99	4.240	4.251	-0.011	0	34337	5.00	4.89	
7 Phenol	94	4.257	4.263	-0.006	97	36564	5.00	4.92	
8 Aniline	93	4.287	4.293	-0.006	99	44750	5.00	4.97	
9 Bis(2-chloroethyl)ether	93	4.345	4.351	-0.006	93	28632	5.00	5.15	
10 2-Chlorophenol	128	4.404	4.410	-0.006	92	28693	5.00	4.99	
11 n-Decane	43	4.457	4.463	-0.006	94	41365	5.00	5.22	
12 1,3-Dichlorobenzene	146	4.551	4.557	-0.006	94	32964	5.00	4.99	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	97	166814	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.622	4.622	0.000	92	33534	5.00	5.04	
15 Benzyl alcohol	108	4.728	4.734	-0.006	91	19266	5.00	4.98	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	94	31697	5.00	5.02	
17 2-Methylphenol	108	4.834	4.840	-0.006	88	26252	5.00	4.97	
18 2,2'-oxybis[1-chloropropan	45	4.863	4.863	0.000	91	54231	5.00	5.12	
20 3 & 4 Methylphenol	108	4.981	4.987	-0.006	83	31039	5.00	5.13	
22 Acetophenone	105	4.981	4.987	-0.006	86	43745	5.00	5.27	
19 4-Methylphenol	108	4.981	4.987	-0.006	81	31039	5.00	5.13	
21 N-Nitrosodi-n-propylamine	70	4.981	4.987	-0.006	94	22845	5.00	5.07	
25 Hexachloroethane	117	5.092	5.093	-0.001	94	12646	5.00	4.93	
$ 26 Nitrobenzene-d5	82	5.122	5.128	-0.006	91	31583	5.00	4.80	
27 Nitrobenzene	123	5.145	5.146	-0.001	89	13361	5.00	4.91	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	92	43919	5.00	5.11	
29 Isophorone	82	5.369	5.375	-0.006	98	57021	5.00	5.16	
30 2-Nitrophenol	139	5.445	5.451	-0.006	85	12337	5.00	4.40	
31 2,4-Dimethylphenol	122	5.487	5.493	-0.007	89	24406	5.00	4.73	
32 Bis(2-chloroethoxy)methane	93	5.575	5.581	-0.006	94	35748	5.00	5.07	
33 Benzoic acid	122	5.534	5.587	-0.053	89	7790	5.00	6.13	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	93	23050	5.00	4.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	95	26572	5.00	4.90	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	685350	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	99	86658	5.00	5.08	
38 4-Chloroaniline	127	5.881	5.881	0.000	96	36663	5.00	4.96	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	93	14158	5.00	4.83	
41 4-Chloro-3-methylphenol	107	6.339	6.340	-0.001	97	23823	5.00	4.89	
42 2-Methylnaphthalene	142	6.486	6.492	-0.006	84	57509	5.00	5.00	
43 1-Methylnaphthalene	142	6.581	6.587	-0.006	92	54125	5.00	4.94	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	96	15438	5.00	4.34	
45 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	27206	5.00	4.84	
46 2-tertbutyl-4-methylphenol	149	6.681	6.681	0.000	89	35249	5.00	4.93	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	88	15284	5.00	4.48	
49 2,4,5-Trichlorophenol	196	6.786	6.787	-0.001	95	19364	5.00	4.80	
$ 50 2-Fluorobiphenyl	172	6.839	6.840	-0.001	98	61363	5.00	4.74	
51 1,1'-Biphenyl	154	6.933	6.934	-0.001	97	69072	5.00	4.92	
52 2-Chloronaphthalene	162	6.945	6.951	-0.006	98	55128	5.00	4.97	
53 Phenyl ether	170	7.033	7.034	-0.001	92	34108	5.00	4.88	
54 2-Nitroaniline	65	7.039	7.045	-0.006	94	19652	5.00	4.78	
55 1,3-Dimethylnaphthalene	156	7.157	7.163	-0.006	90	43192	5.00	4.90	
58 Dimethyl phthalate	163	7.222	7.228	-0.006	1	62574	5.00	4.96	Ma
59 Coumarin	146	7.233	7.239	-0.006	77	21591	5.00	5.02	
60 2,6-Dinitrotoluene	165	7.269	7.275	-0.006	89	11341	5.00	4.59	
61 Acenaphthylene	152	7.339	7.345	-0.006	97	82765	5.00	4.96	
62 3-Nitroaniline	138	7.428	7.434	-0.006	90	13941	5.00	4.56	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	341564	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.504	7.504	0.000	98	43860	5.00	4.80	
65 Acenaphthene	154	7.504	7.510	-0.006	96	55275	5.00	4.85	
66 2,4-Dinitrophenol	184	7.528	7.534	-0.006	91	7961	10.0	10.2	
67 4-Nitrophenol	65	7.586	7.598	-0.012	88	22501	10.0	9.03	
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	89	15077	5.00	4.61	
69 Dibenzofuran	168	7.669	7.675	-0.006	96	77891	5.00	4.99	
70 2,3,4,6-Tetrachlorophenol	232	7.786	7.792	-0.006	92	13866	5.00	4.62	
71 Diethyl phthalate	149	7.886	7.898	-0.012	97	64590	5.00	5.03	
73 4-Chlorophenyl phenyl ethe	204	7.992	7.998	-0.006	85	28389	5.00	4.90	
74 Fluorene	166	7.992	7.998	-0.006	95	63153	5.00	5.01	
75 4-Nitroaniline	138	8.004	8.016	-0.012	95	14901	5.00	4.60	
76 4,6-Dinitro-2-methylphenol	198	8.039	8.045	-0.006	78	10300	10.0	9.92	
77 N-Nitrosodiphenylamine	169	8.104	8.110	-0.006	99	43849	5.00	4.85	
78 1,2-Diphenylhydrazine	77	8.145	8.145	0.000	100	68287	5.00	5.04	
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	94	8489	5.00	4.66	
80 4-Bromophenyl phenyl ether	248	8.457	8.457	0.000	86	17373	5.00	4.80	
81 Hexachlorobenzene	284	8.522	8.522	0.000	98	19747	5.00	4.91	
83 Pentachlorophenol	266	8.704	8.704	0.000	92	19962	10.0	9.22	
84 Pentachloronitrobenzene	237	8.722	8.722	0.000	87	7048	5.00	4.39	
72 n-Octadecane	57	8.792	8.798	-0.006	92	52476	5.00	4.95	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	663659	40.0	40.0	
86 Phenanthrene	178	8.898	8.904	-0.006	96	94988	5.00	5.00	
87 Anthracene	178	8.945	8.951	-0.006	98	96300	5.00	4.90	
88 Carbazole	167	9.098	9.104	-0.006	96	89358	5.00	4.99	
89 Di-n-butyl phthalate	149	9.439	9.445	-0.006	99	106738	5.00	4.87	
90 Fluoranthene	202	10.027	10.028	-0.001	98	98488	5.00	4.90	
91 Benzidine	184	10.151	10.157	-0.006	99	20752	5.00	4.86	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.239	10.245	-0.006	97	103088	5.00	5.00	
93 Bisphenol-A	213	10.292	10.298	-0.006	97	29311	5.00	3.75	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	98	70744	5.00	4.89	
95 Butyl benzyl phthalate	149	10.921	10.927	-0.006	98	41332	5.00	4.57	
97 Carbamazepine	193	11.027	11.039	-0.012	92	33705	5.00	4.32	
98 3,3'-Dichlorobenzidine	252	11.521	11.527	-0.006	99	32162	5.00	5.32	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	100	95554	5.00	4.92	
* 100 Chrysene-d12	240	11.557	11.563	-0.006	99	626368	40.0	40.0	
101 Chrysene	228	11.586	11.598	-0.012	98	91355	5.00	5.17	
102 Bis(2-ethylhexyl) phthalat	149	11.621	11.622	-0.001	88	63193	5.00	4.79	
103 Di-n-octyl phthalate	149	12.504	12.504	0.000	97	103889	5.00	4.47	
104 Benzo[b]fluoranthene	252	12.986	12.992	-0.006	99	90283	5.00	4.86	
105 Benzo[k]fluoranthene	252	13.021	13.033	-0.012	99	92603	5.00	4.83	
106 Benzo[a]pyrene	252	13.451	13.463	-0.012	96	85414	5.00	4.84	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	670759	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.204	15.221	-0.017	98	75800	5.00	4.66	M
109 Dibenz(a,h)anthracene	278	15.256	15.274	-0.018	97	79305	5.00	4.90	
110 Benzo[g,h,i]perylene	276	15.680	15.704	-0.024	96	85264	5.00	4.76	
S 117 Total Cresols	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L3_00020 Amount Added: 1.00 Units: mL

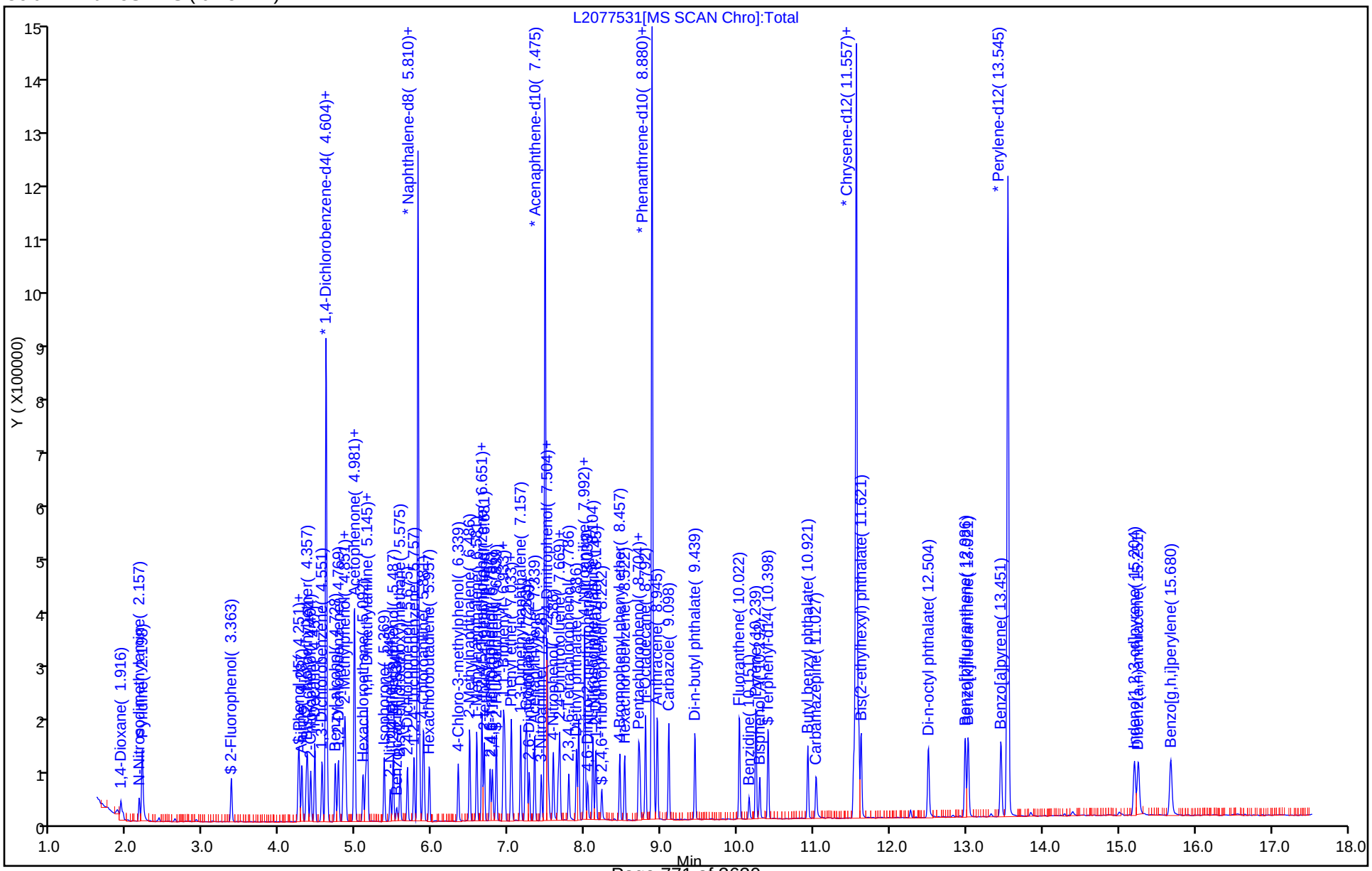
Report Date: 16-Mar-2018 10:25:03 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077531.d

Injection Date:	15-Mar-2018 16:56:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

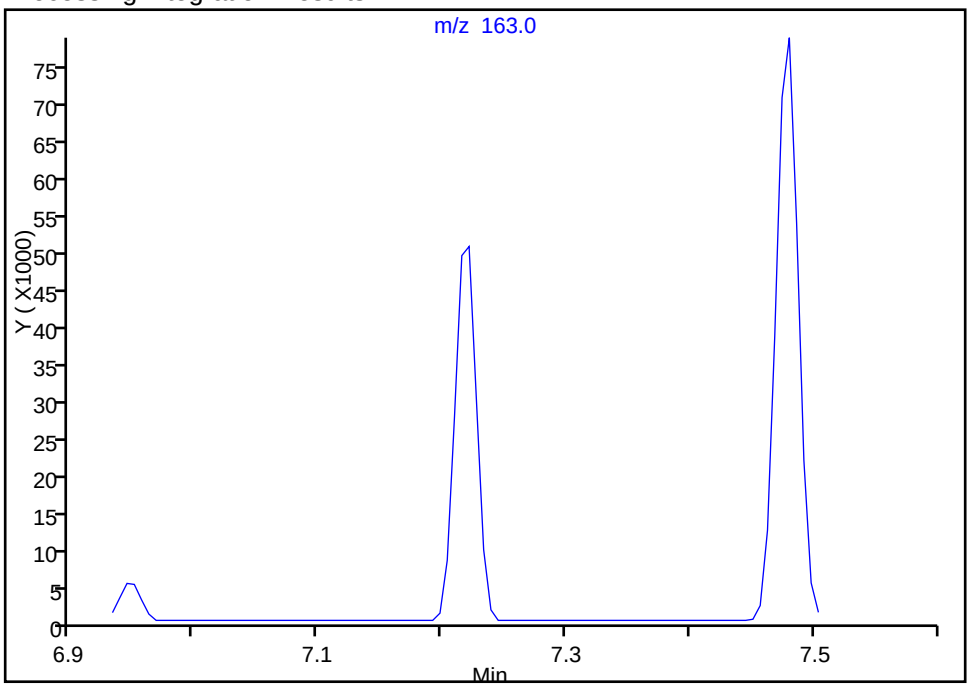
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077531.d
Injection Date: 15-Mar-2018 16:56:30 Instrument ID: CBNAMS12
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

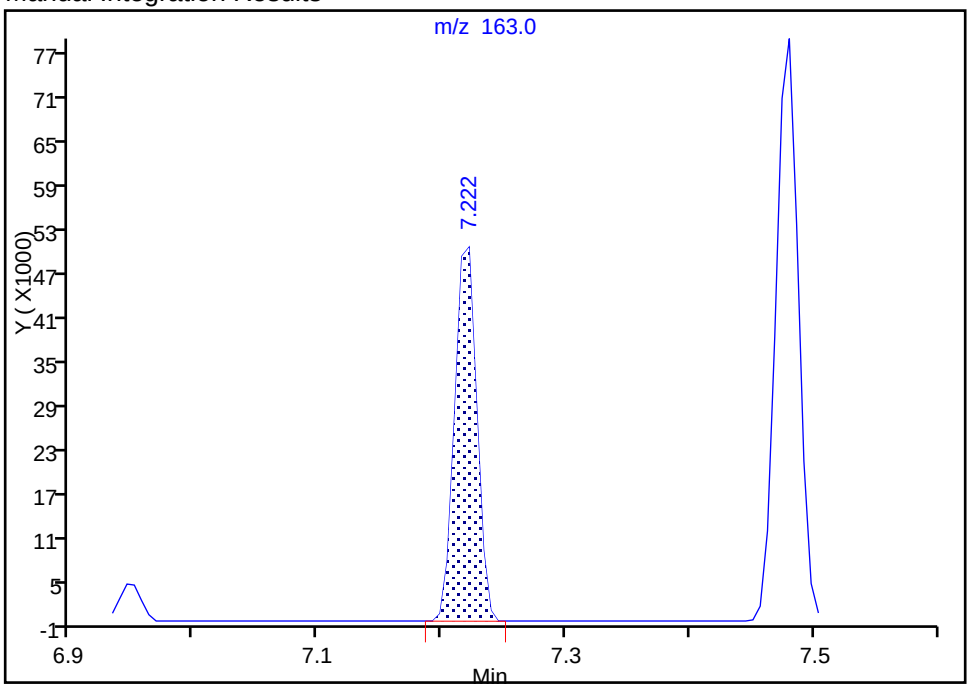
Not Detected
Expected RT: 7.23

Processing Integration Results



Manual Integration Results

RT: 7.22
Area: 62574
Amount: 4.956026
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:47:54
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

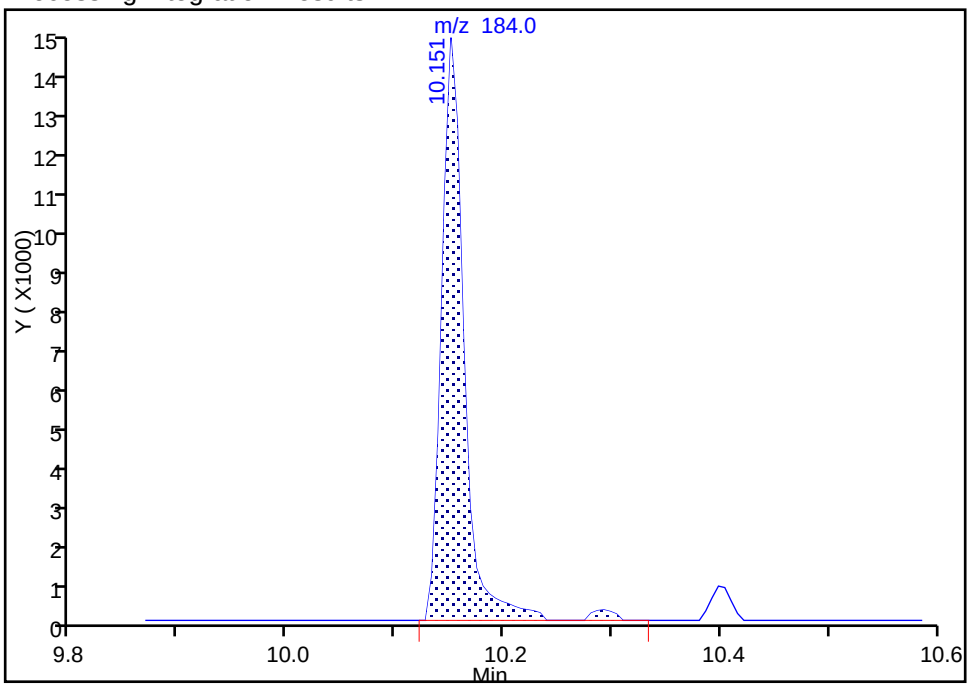
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077531.d				
Injection Date:	15-Mar-2018 16:56:30	Instrument ID:	CBNAMS12		
Lims ID:	STD5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

91 Benzidine, CAS: 92-87-5

Signal: 1

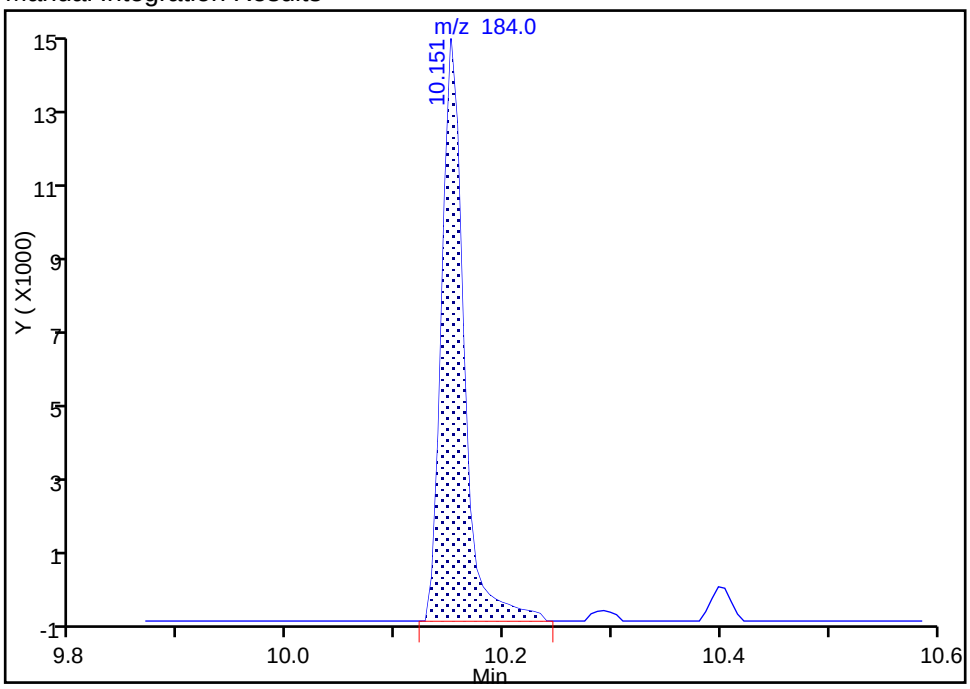
Processing Integration Results

RT: 10.15
Area: 21090
Amount: 4.862280
Amount Units: ug/ml



Manual Integration Results

RT: 10.15
Area: 20752
Amount: 4.858099
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:47:29

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

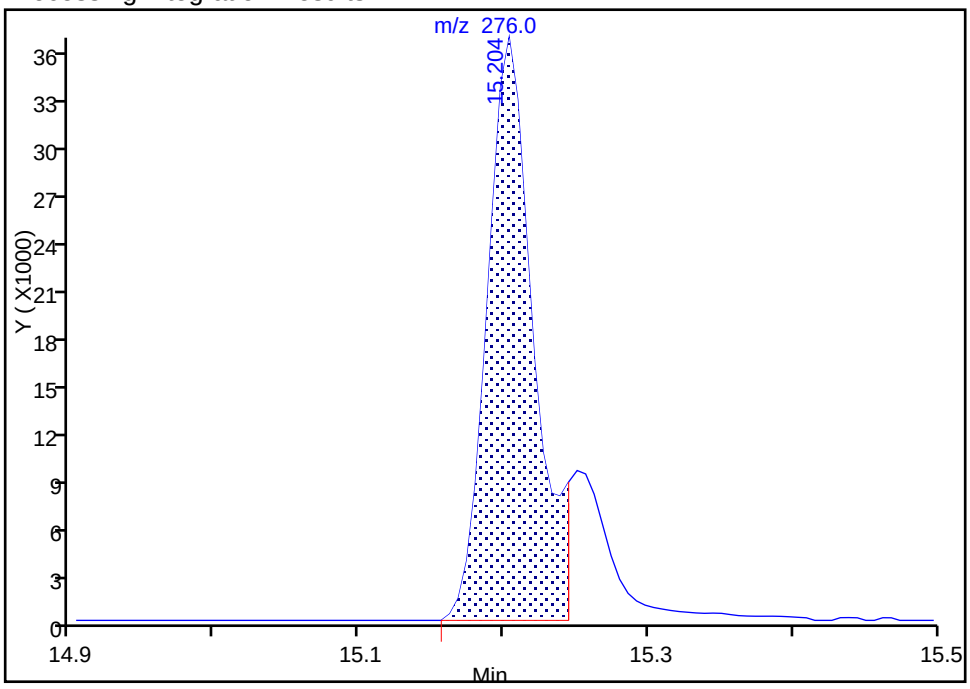
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077531.d				
Injection Date:	15-Mar-2018 16:56:30	Instrument ID:	CBNAMS12		
Lims ID:	STD5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

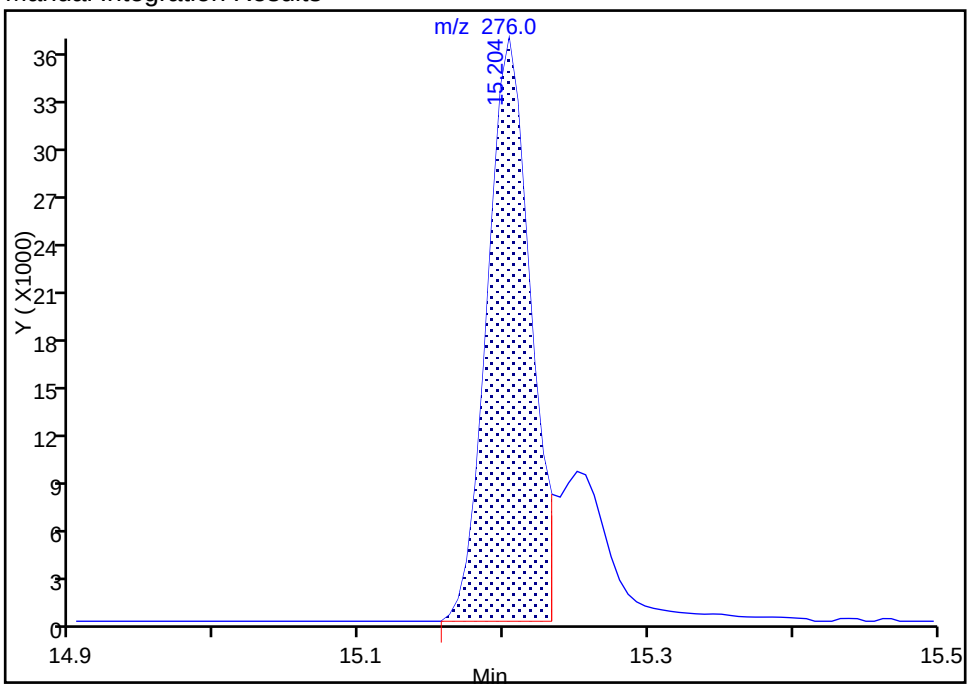
Processing Integration Results

RT: 15.20
Area: 81538
Amount: 4.914571
Amount Units: ug/ml



Manual Integration Results

RT: 15.20
Area: 75800
Amount: 4.658240
Amount Units: ug/ml



Reviewer: asfawa, 16-Mar-2018 09:51:11

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

Report Date: 16-Mar-2018 10:25:10 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077532.d
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Mar-2018 17:19:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-008
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:09 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:49:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.369	3.369	0.000	92	10584	2.00	1.91	
$ 6 Phenol-d5	99	4.245	4.251	-0.006	0	12817	2.00	1.85	
9 Bis(2-chloroethyl)ether	93	4.351	4.351	0.000	91	11004	2.00	2.01	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	98	164247	40.0	40.0	
21 N-Nitrosodi-n-propylamine	70	4.981	4.987	-0.006	94	8692	2.00	1.96	
25 Hexachloroethane	117	5.092	5.093	-0.001	92	4971	2.00	1.97	
$ 26 Nitrobenzene-d5	82	5.128	5.128	0.000	91	12122	2.00	1.91	
27 Nitrobenzene	123	5.145	5.146	-0.001	92	5336	2.00	1.99	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	92	17078	2.00	2.02	
29 Isophorone	82	5.369	5.375	-0.006	98	20124	2.00	1.89	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	93	8332	2.00	1.78	
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	94	10419	2.00	1.99	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	660893	40.0	40.0	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	94	5313	2.00	1.88	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	86	5493	2.00	1.67	
$ 50 2-Fluorobiphenyl	172	6.839	6.840	-0.001	98	24465	2.00	1.96	
60 2,6-Dinitrotoluene	165	7.269	7.275	-0.006	86	3983	2.00	1.68	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	328626	40.0	40.0	
66 2,4-Dinitrophenol	184	7.528	7.534	-0.006	1	1956	4.00	4.78	a
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	72	5371	2.00	1.71	a
76 4,6-Dinitro-2-methylphenol	198	8.039	8.045	-0.006	77	3191	4.00	4.89	
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	93	3042	2.00	1.74	
81 Hexachlorobenzene	284	8.522	8.522	0.000	97	7412	2.00	1.91	
83 Pentachlorophenol	266	8.704	8.704	0.000	91	6768	4.00	3.24	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	639678	40.0	40.0	
$ 94 Terphenyl-d14	244	10.398	10.404	-0.006	97	27064	2.00	1.95	
98 3,3'-Dichlorobenzidine	252	11.521	11.527	-0.006	96	6472	2.00	1.99	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	99	37098	2.00	1.99	
* 100 Chrysene-d12	240	11.557	11.563	-0.006	99	599976	40.0	40.0	
104 Benzo[b]fluoranthene	252	12.986	12.992	-0.006	98	34471	2.00	1.98	
105 Benzo[k]fluoranthene	252	13.021	13.033	-0.012	99	35841	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Benzo[a]pyrene	252	13.451	13.463	-0.012	96	32011	2.00	1.94	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	628427	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.204	15.221	-0.017	96	26555	2.00	1.74	M
109 Dibenz(a,h)anthracene	278	15.251	15.274	-0.023	97	28720	2.00	1.89	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L0_00015 Amount Added: 1.00 Units: mL

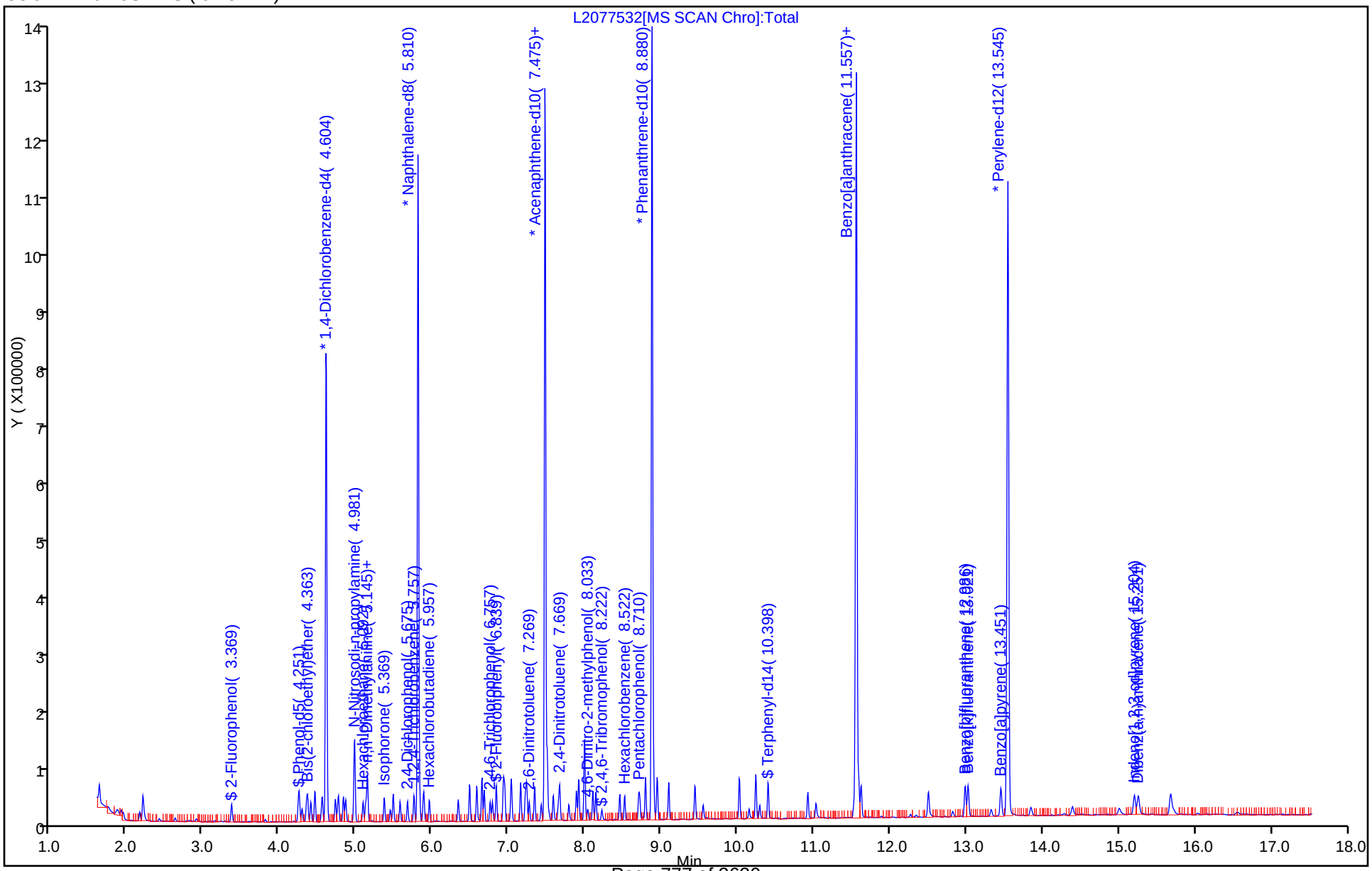
Report Date: 16-Mar-2018 10:25:10 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077532.d

Injection Date:	15-Mar-2018 17:19:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD2			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

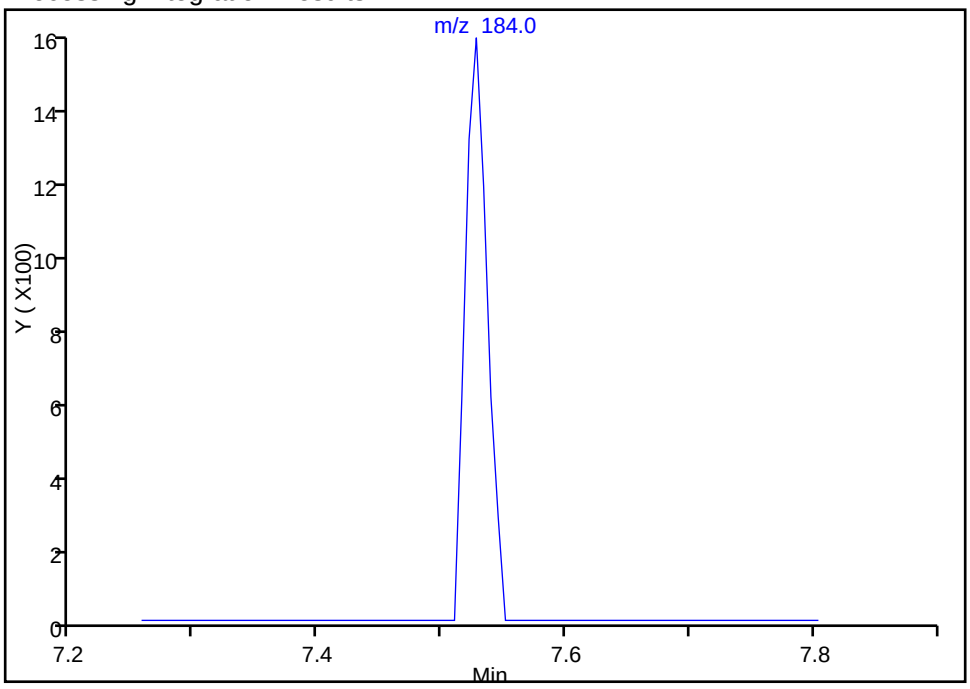
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077532.d				
Injection Date:	15-Mar-2018 17:19:30	Instrument ID:	CBNAMS12		
Lims ID:	STD2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

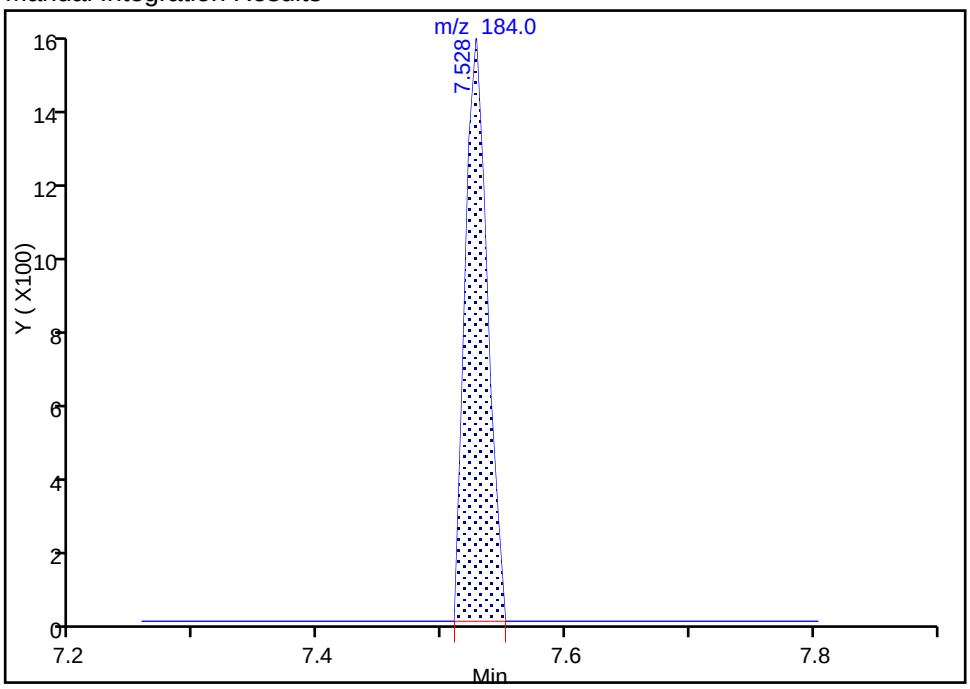
Processing Integration Results

Not Detected
Expected RT: 7.53



Manual Integration Results

RT: 7.53
Area: 1956
Amount: 4.778817
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:48:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

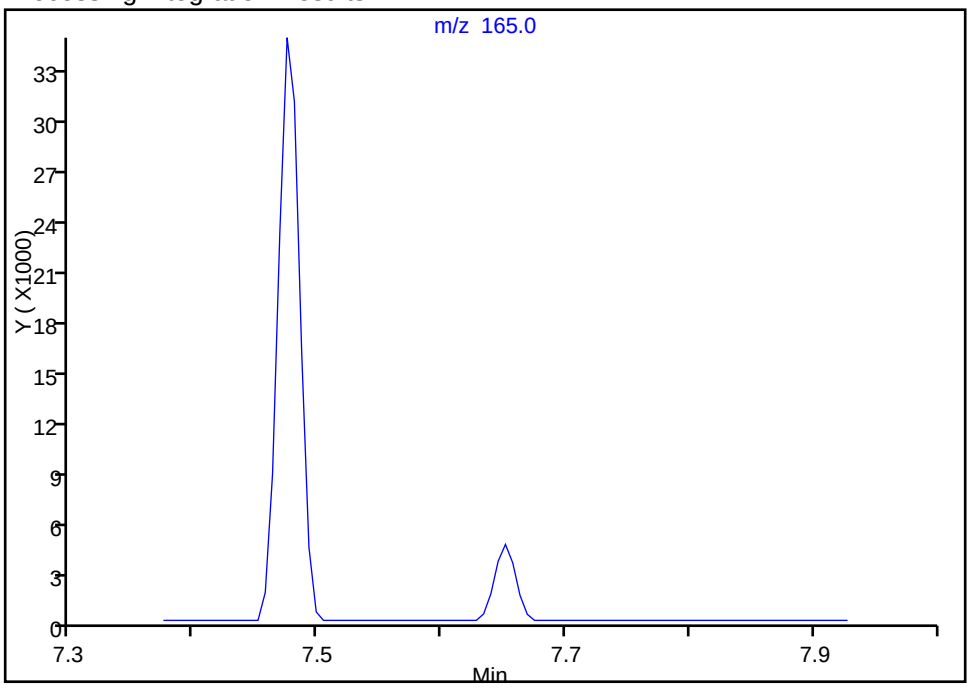
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077532.d				
Injection Date:	15-Mar-2018 17:19:30	Instrument ID:	CBNAMS12		
Lims ID:	STD2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

68 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

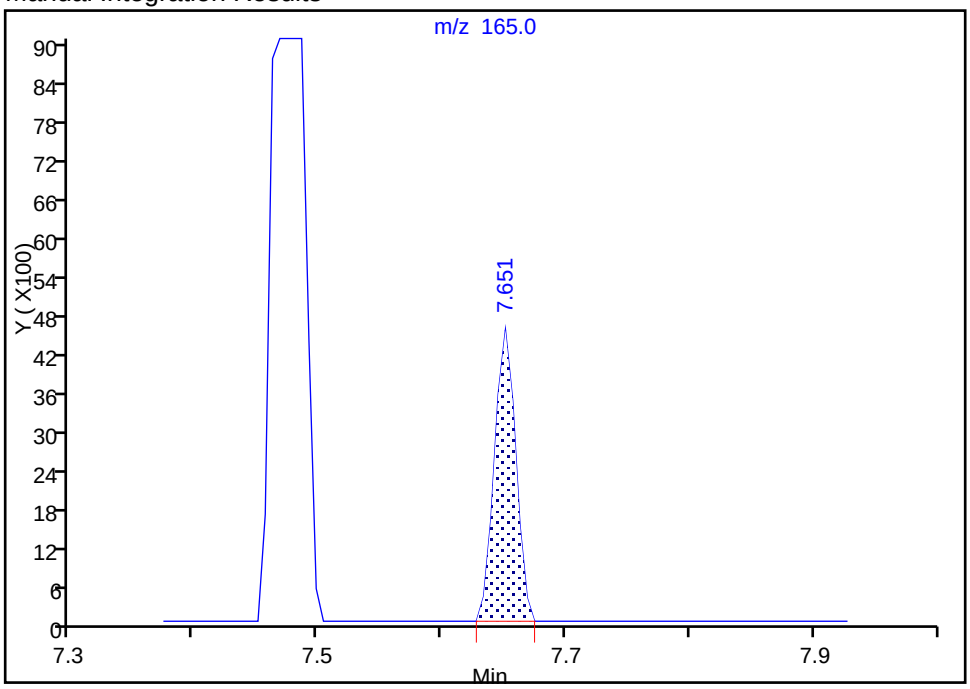
Not Detected
Expected RT: 7.66

Processing Integration Results



Manual Integration Results

RT: 7.65
Area: 5371
Amount: 1.707233
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:49:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

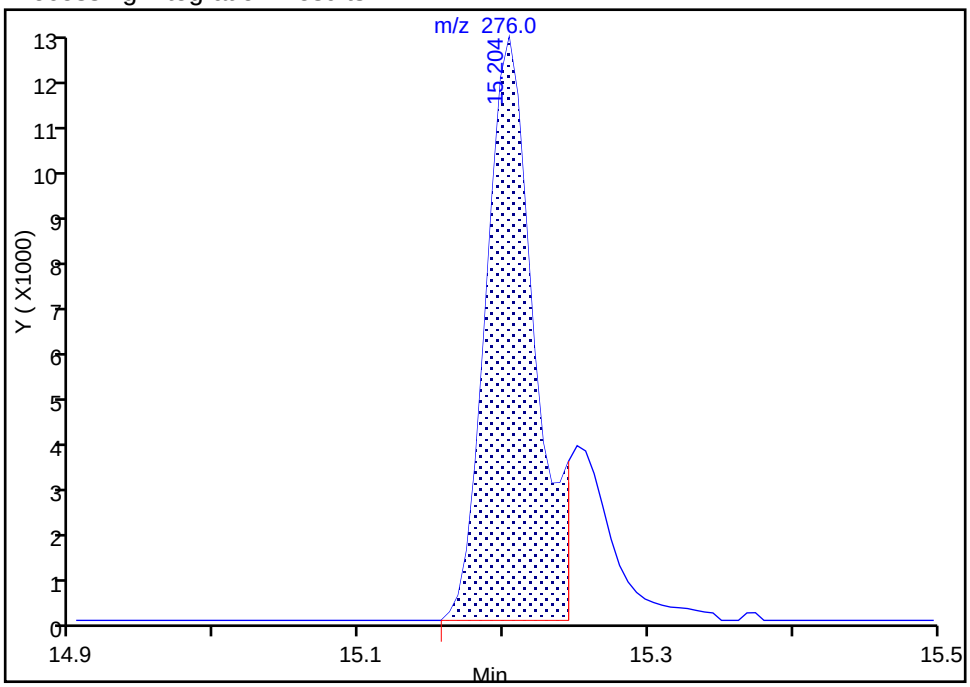
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077532.d				
Injection Date:	15-Mar-2018 17:19:30	Instrument ID:	CBNAMS12		
Lims ID:	STD2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

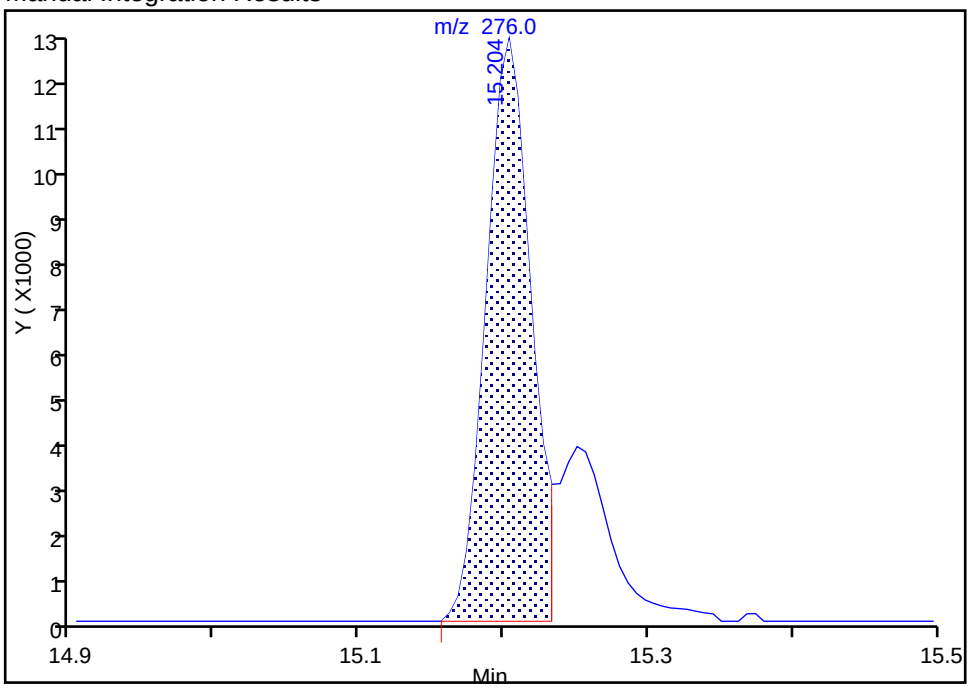
Processing Integration Results

RT: 15.20
Area: 28743
Amount: 1.863460
Amount Units: ug/ml



Manual Integration Results

RT: 15.20
Area: 26555
Amount: 1.741849
Amount Units: ug/ml



Reviewer: asfawa, 16-Mar-2018 09:51:56

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

Report Date: 16-Mar-2018 10:25:15 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077533.d
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Mar-2018 17:42:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-009
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:15 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:49:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.363	3.369	-0.006	89	5445	1.00	1.00	
$ 6 Phenol-d5	99	4.240	4.251	-0.011	0	6719	1.00	0.99	
9 Bis(2-chloroethyl)ether	93	4.345	4.351	-0.006	89	5288	1.00	0.9890	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	97	160431	40.0	40.0	
21 N-Nitrosodi-n-propylamine	70	4.981	4.987	-0.006	95	4399	1.00	1.02	
25 Hexachloroethane	117	5.093	5.093	-0.001	91	2634	1.00	1.07	
$ 26 Nitrobenzene-d5	82	5.122	5.128	-0.006	94	6673	1.00	1.07	
27 Nitrobenzene	123	5.145	5.146	-0.001	87	2484	1.00	0.9483	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	93	8162	1.00	0.9871	
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	93	5210	1.00	1.01	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	652010	40.0	40.0	
39 Hexachlorobutadiene	225	5.957	5.963	-0.006	92	2878	1.00	1.03	
$ 50 2-Fluorobiphenyl	172	6.839	6.840	-0.001	97	12701	1.00	1.06	
60 2,6-Dinitrotoluene	165	7.269	7.275	-0.006	85	1822	1.00	0.7954	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	316615	40.0	40.0	
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	56	2204	1.00	0.7271	a
$ 79 2,4,6-Tribromophenol	330	8.222	8.222	0.000	87	1249	1.00	0.7395	
81 Hexachlorobenzene	284	8.522	8.522	0.000	97	3817	1.00	1.03	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	613264	40.0	40.0	
$ 94 Terphenyl-d14	244	10.398	10.404	-0.006	98	13761	1.00	1.03	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	99	18781	1.00	1.04	
* 100 Chrysene-d12	240	11.557	11.563	-0.006	99	581256	40.0	40.0	
104 Benzo[b]fluoranthene	252	12.986	12.992	-0.006	97	15702	1.00	0.9194	
105 Benzo[k]fluoranthene	252	13.021	13.033	-0.012	99	16900	1.00	0.9605	
106 Benzo[a]pyrene	252	13.451	13.463	-0.012	96	15374	1.00	0.9481	
* 107 Perylene-d12	264	13.545	13.545	0.000	98	616055	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.204	15.221	-0.017	98	13392	1.00	0.8961	M
109 Dibenz(a,h)anthracene	278	15.251	15.274	-0.023	94	13416	1.00	0.9020	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L2_00017 Amount Added: 1.00 Units: mL

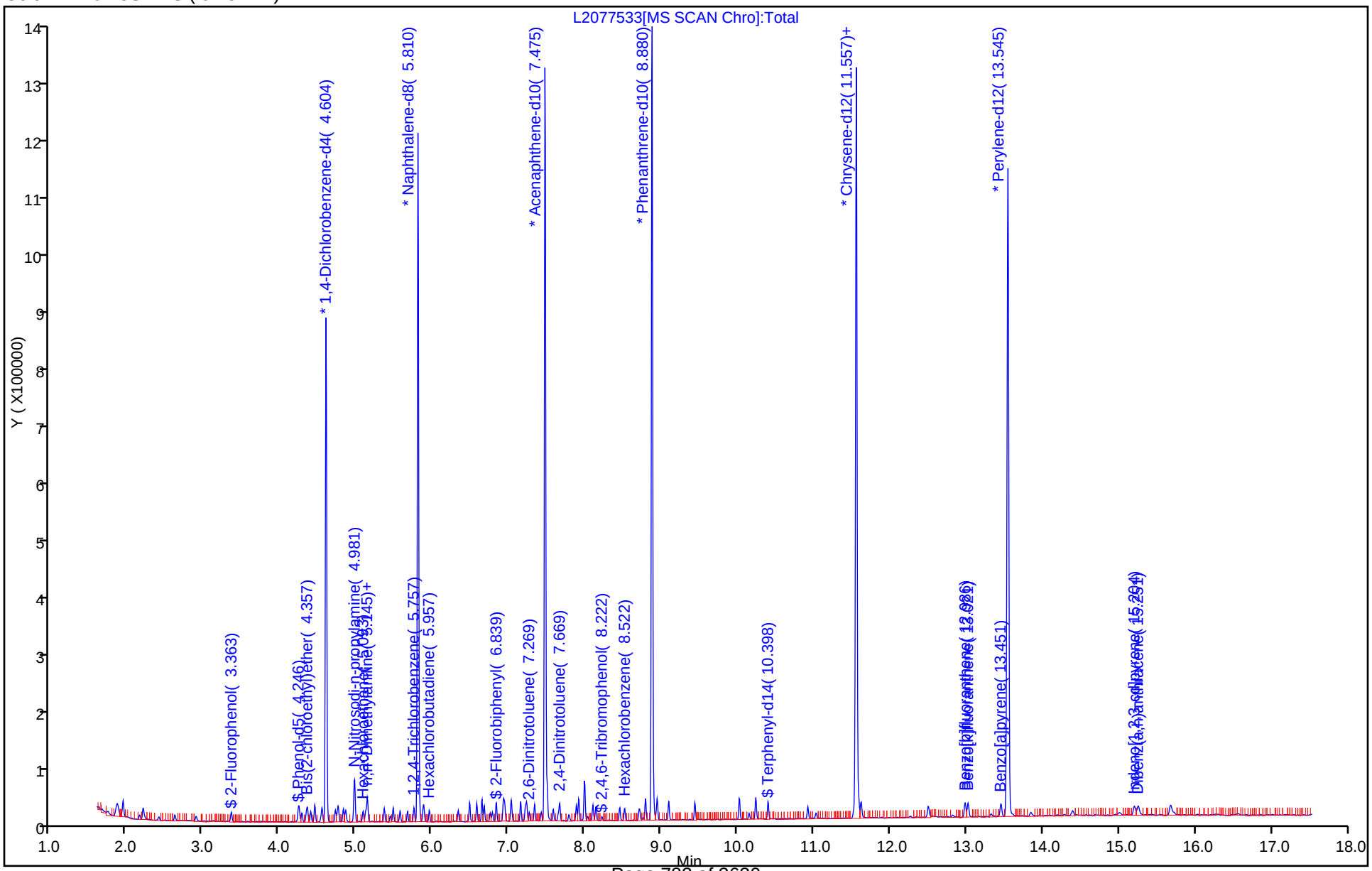
Report Date: 16-Mar-2018 10:25:15 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077533.d

Injection Date:	15-Mar-2018 17:42:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

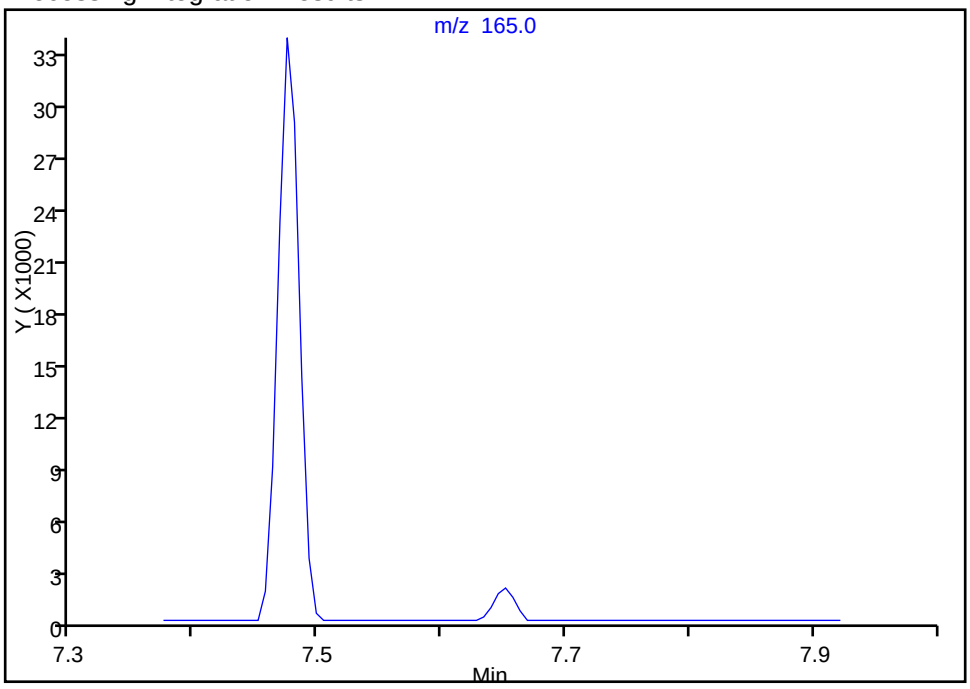
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077533.d				
Injection Date:	15-Mar-2018 17:42:30	Instrument ID:	CBNAMS12		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

68 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

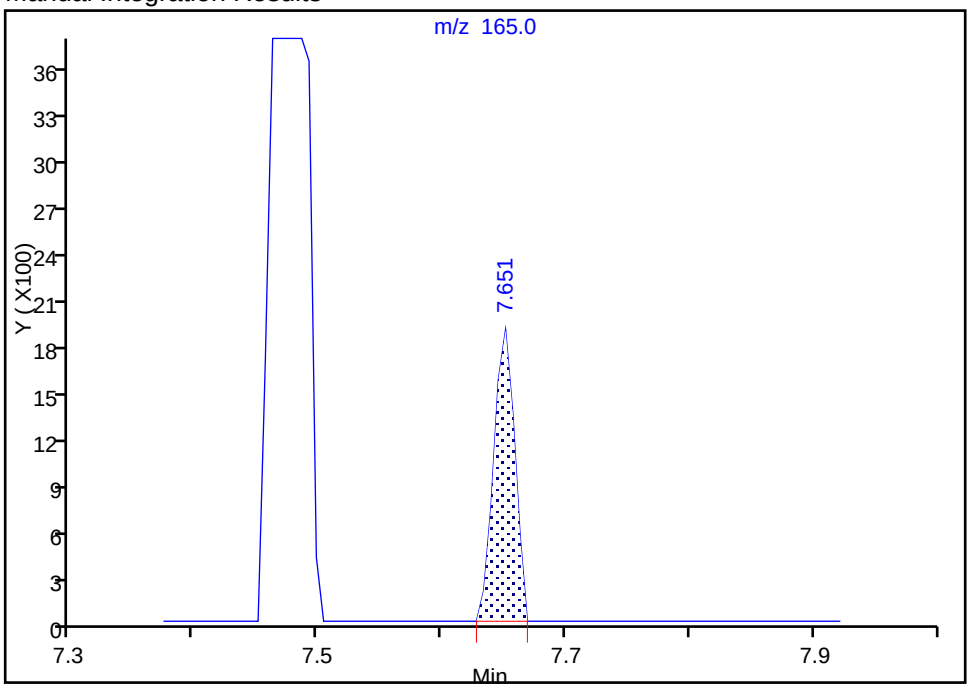
Processing Integration Results

Not Detected
Expected RT: 7.66



Manual Integration Results

RT: 7.65
Area: 2204
Amount: 0.727143
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:49:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

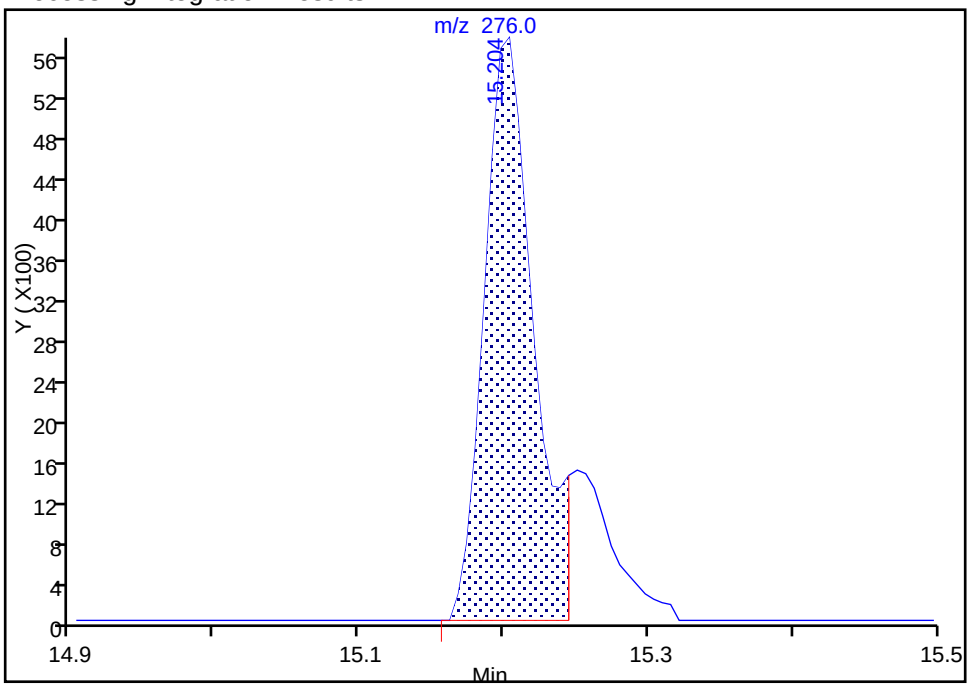
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077533.d				
Injection Date:	15-Mar-2018 17:42:30	Instrument ID:	CBNAMS12		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

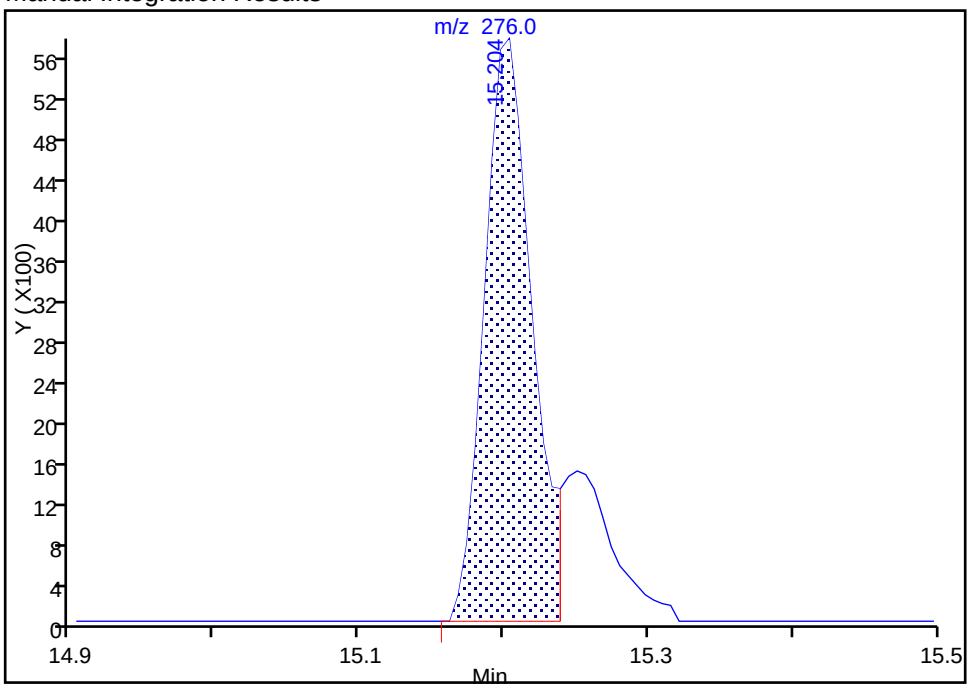
Processing Integration Results

RT: 15.20
Area: 13901
Amount: 0.926628
Amount Units: ug/ml



Manual Integration Results

RT: 15.20
Area: 13392
Amount: 0.896077
Amount Units: ug/ml



Reviewer: asfawa, 16-Mar-2018 09:52:49

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077534.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Mar-2018 18:04:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-010
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:20 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:50:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.363	3.369	-0.006	90	2618	0.5000	0.5076	
$ 6 Phenol-d5	99	4.240	4.251	-0.011	0	3350	0.5000	0.5210	
9 Bis(2-chloroethyl)ether	93	4.346	4.351	-0.005	88	2658	0.5000	0.5224	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.610	-0.006	97	152661	40.0	40.0	
21 N-Nitrosodi-n-propylamine	70	4.981	4.987	-0.006	57	2220	0.5000	0.5387	a
25 Hexachloroethane	117	5.093	5.093	0.000	88	1295	0.5000	0.5514	
$ 26 Nitrobenzene-d5	82	5.122	5.128	-0.006	93	3194	0.5000	0.5454	
27 Nitrobenzene	123	5.140	5.146	-0.006	86	1187	0.5000	0.4762	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	91	3884	0.5000	0.4936	
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	92	2467	0.5000	0.5112	
* 36 Naphthalene-d8	136	5.810	5.816	-0.006	99	609475	40.0	40.0	
* 63 Acenaphthene-d10	164	7.475	7.481	-0.006	99	299001	40.0	40.0	
81 Hexachlorobenzene	284	8.522	8.522	0.000	92	1799	0.5000	0.5139	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	577924	40.0	40.0	
$ 94 Terphenyl-d14	244	10.404	10.404	0.000	97	6738	0.5000	0.5263	
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	98	9807	0.5000	0.5696	
* 100 Chrysene-d12	240	11.557	11.563	-0.006	98	554842	40.0	40.0	
104 Benzo[b]fluoranthene	252	12.980	12.992	-0.012	96	8020	0.5000	0.4865	
105 Benzo[k]fluoranthene	252	13.021	13.033	-0.012	98	8281	0.5000	0.4876	
106 Benzo[a]pyrene	252	13.451	13.463	-0.012	93	7197	0.5000	0.4598	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	594662	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.204	15.221	-0.017	97	6824	0.5000	0.4730	M
109 Dibenz(a,h)anthracene	278	15.251	15.274	-0.023	93	5865	0.5000	0.4085	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L1_00019 Amount Added: 1.00 Units: mL

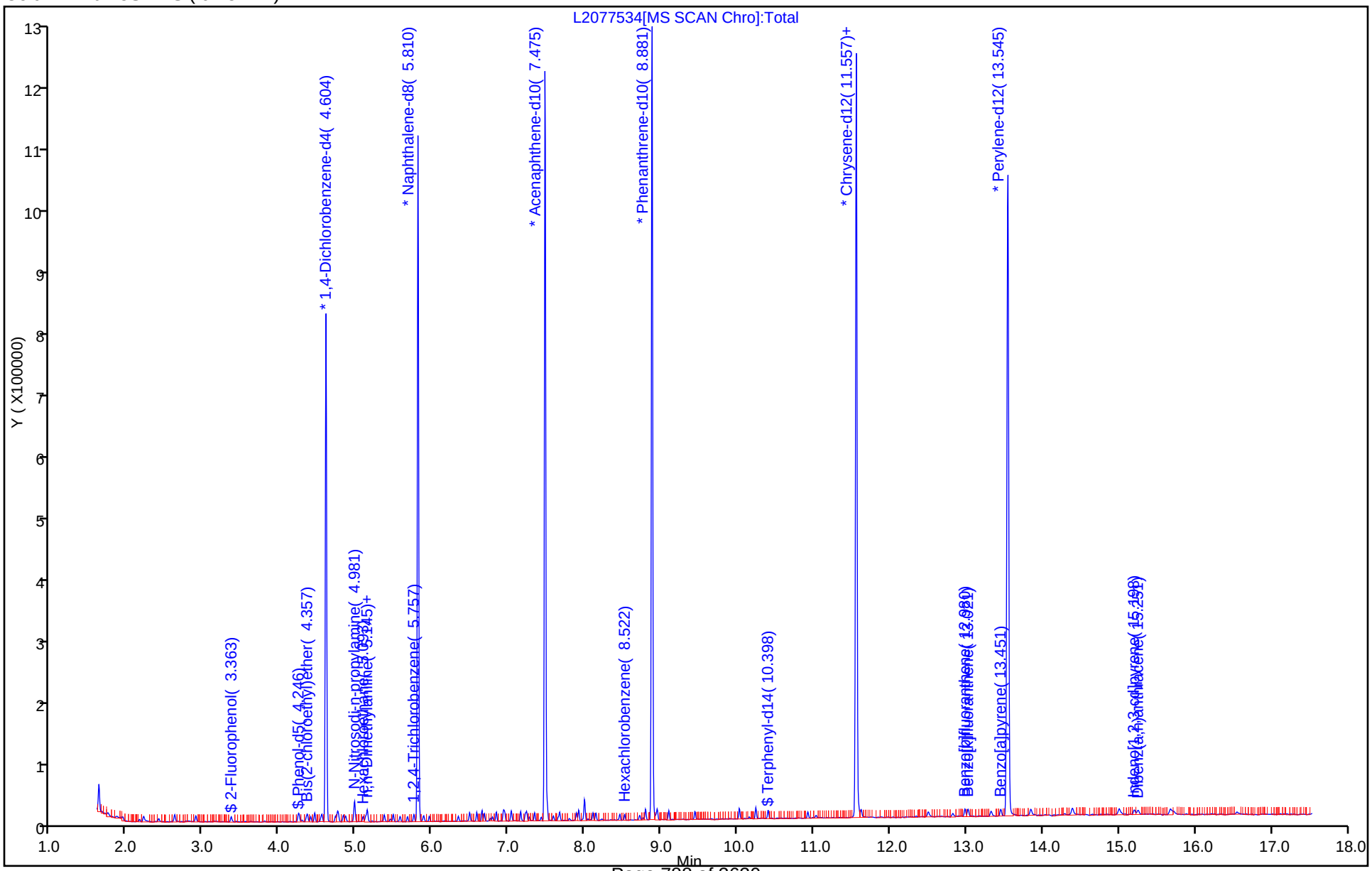
Report Date: 16-Mar-2018 10:25:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077534.d

Injection Date:	15-Mar-2018 18:04:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	STD05			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

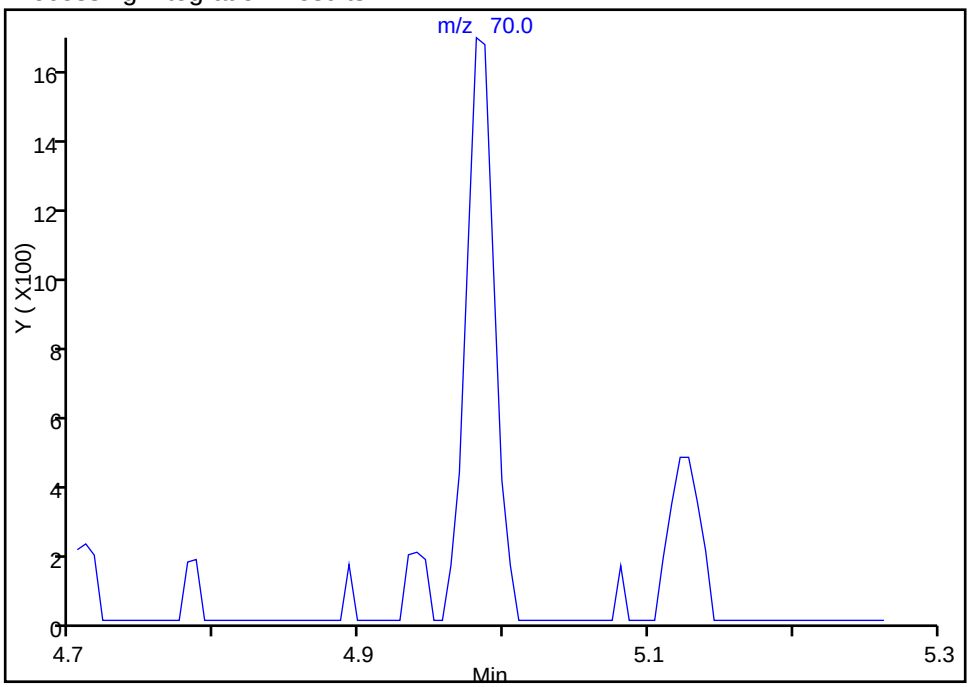
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077534.d
Injection Date: 15-Mar-2018 18:04:30 Instrument ID: CBNAMS12
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

21 N-Nitrosodi-n-propylamine, CAS: 621-64-7

Signal: 1

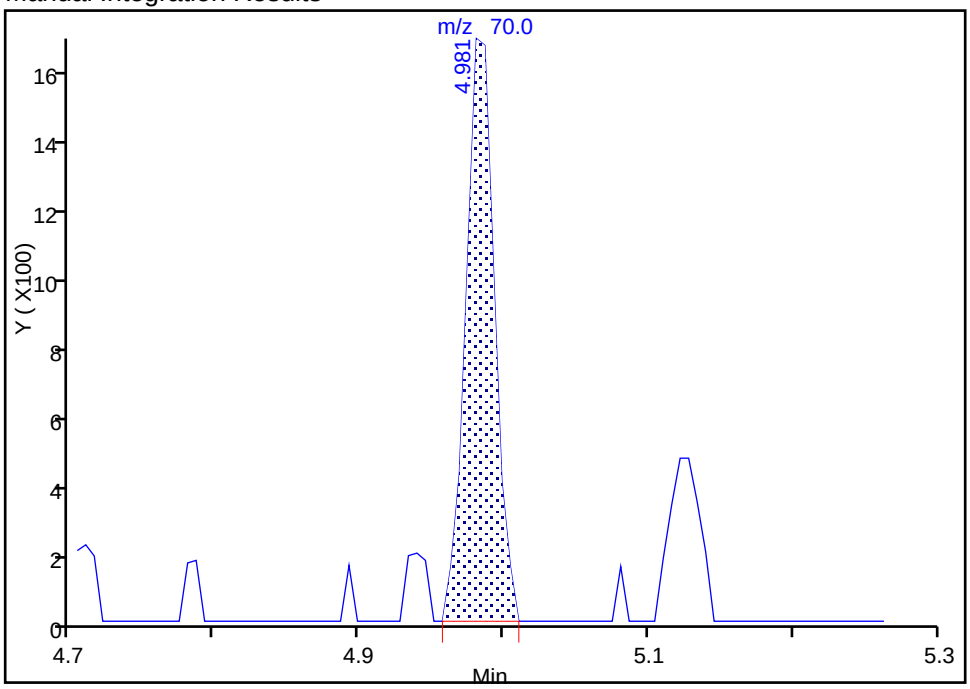
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 2220
Amount: 0.538687
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:49:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

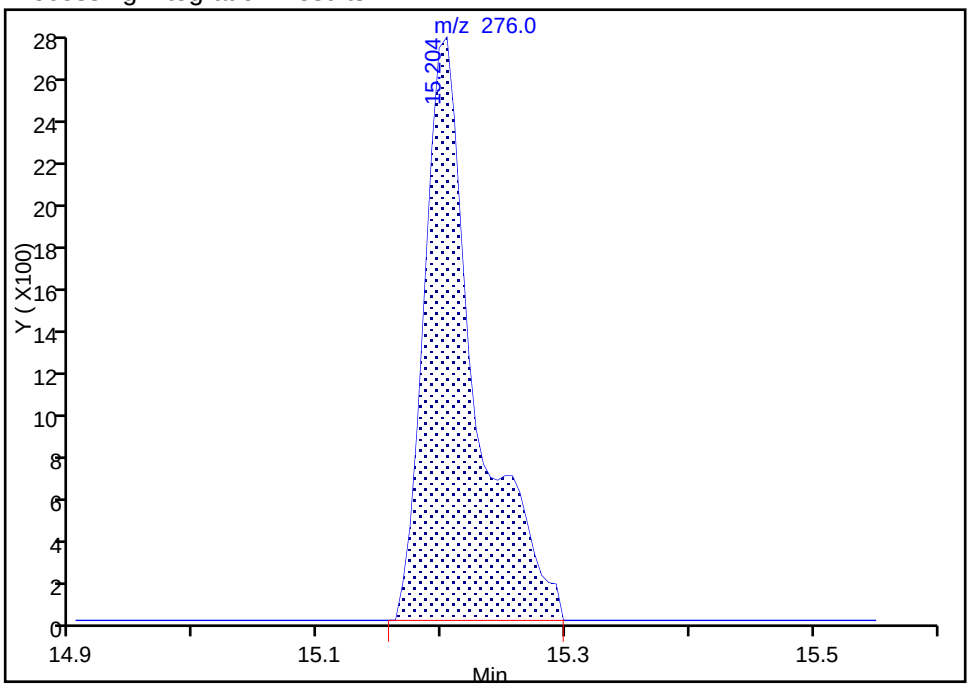
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077534.d				
Injection Date:	15-Mar-2018 18:04:30	Instrument ID:	CBNAMS12		
Lims ID:	STD05				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

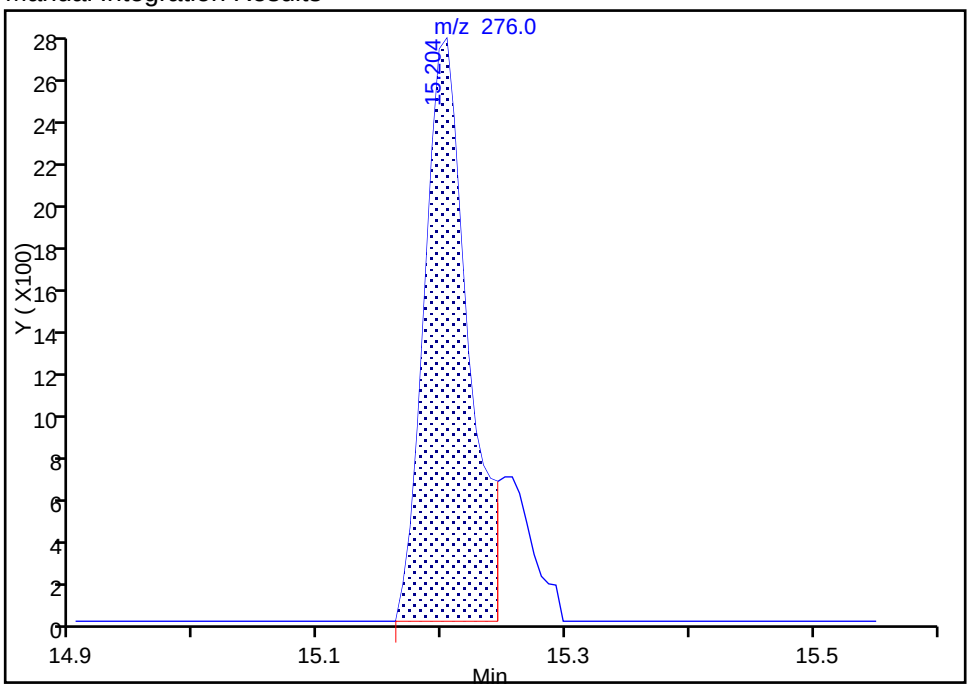
Processing Integration Results

RT: 15.20
Area: 8000
Amount: 0.534396
Amount Units: ug/ml



Manual Integration Results

RT: 15.20
Area: 6824
Amount: 0.473029
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:50:25

Audit Action: Manually Integrated Audit Reason: Split Peak

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 18:27 Calibration End Date: 03/15/2018 20:42 Calibration ID: 66994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 460-503804/11	L2077535.d
Level 2	STD120 460-503804/12	L2077536.d
Level 3	STD80 460-503804/13	L2077537.d
Level 4	STD20 460-503804/14	L2077538.d
Level 5	STD10 460-503804/15	L2077539.d
Level 6	STD5 460-503804/16	L2077540.d
Level 7	STD2 460-503804/17	L2077541.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	1.2875 1.1706	1.2801 1.2248	1.2518	1.2476	1.1889	Ave		1.2359			0.0100	3.6		20.0			
Caprolactam	0.0923 0.0717	0.0983 0.0662	0.0955	0.0870	0.0843	Ave		0.0850			0.0100	14.2		20.0			
Atrazine	0.2148 0.1810	0.2262 0.1765	0.2099	0.1932	0.1960	Ave		0.1997			0.0100	9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 503804

SDG No.:

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2018 18:27 Calibration End Date: 03/15/2018 20:42 Calibration ID: 66994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 460-503804/11	L2077535.d
Level 2	STD120 460-503804/12	L2077536.d
Level 3	STD80 460-503804/13	L2077537.d
Level 4	STD20 460-503804/14	L2077538.d
Level 5	STD10 460-503804/15	L2077539.d
Level 6	STD5 460-503804/16	L2077540.d
Level 7	STD2 460-503804/17	L2077541.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCBd 4	Ave	255721 27288	656533 10060	423242	102780	53334	50.0 5.00	120 2.00	80.0	20.0	10.0
Caprolactam	NPT	Ave	73670 6535	200786 2107	127398	28508	14783	50.0 5.00	120 2.00	80.0	20.0	10.0
Atrazine	PHN	Ave	166418 16017	453775 5434	274098	60879	33467	50.0 5.00	120 2.00	80.0	20.0	10.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077535.d
Lims ID: Std50
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Mar-2018 18:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-011
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:25 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:50:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	93	255721	50.0	52.1	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	158890	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	638267	40.0	40.0	
40 Caprolactam	113	6.181	6.181	0.000	86	73670	50.0	54.3	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	317756	40.0	40.0	
82 Atrazine	200	8.616	8.616	0.000	88	166418	50.0	53.8	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	619924	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	98	586723	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	626403	40.0	40.0	

Reagents:

SV_IC-S_L6_00034 Amount Added: 1.00 Units: mL

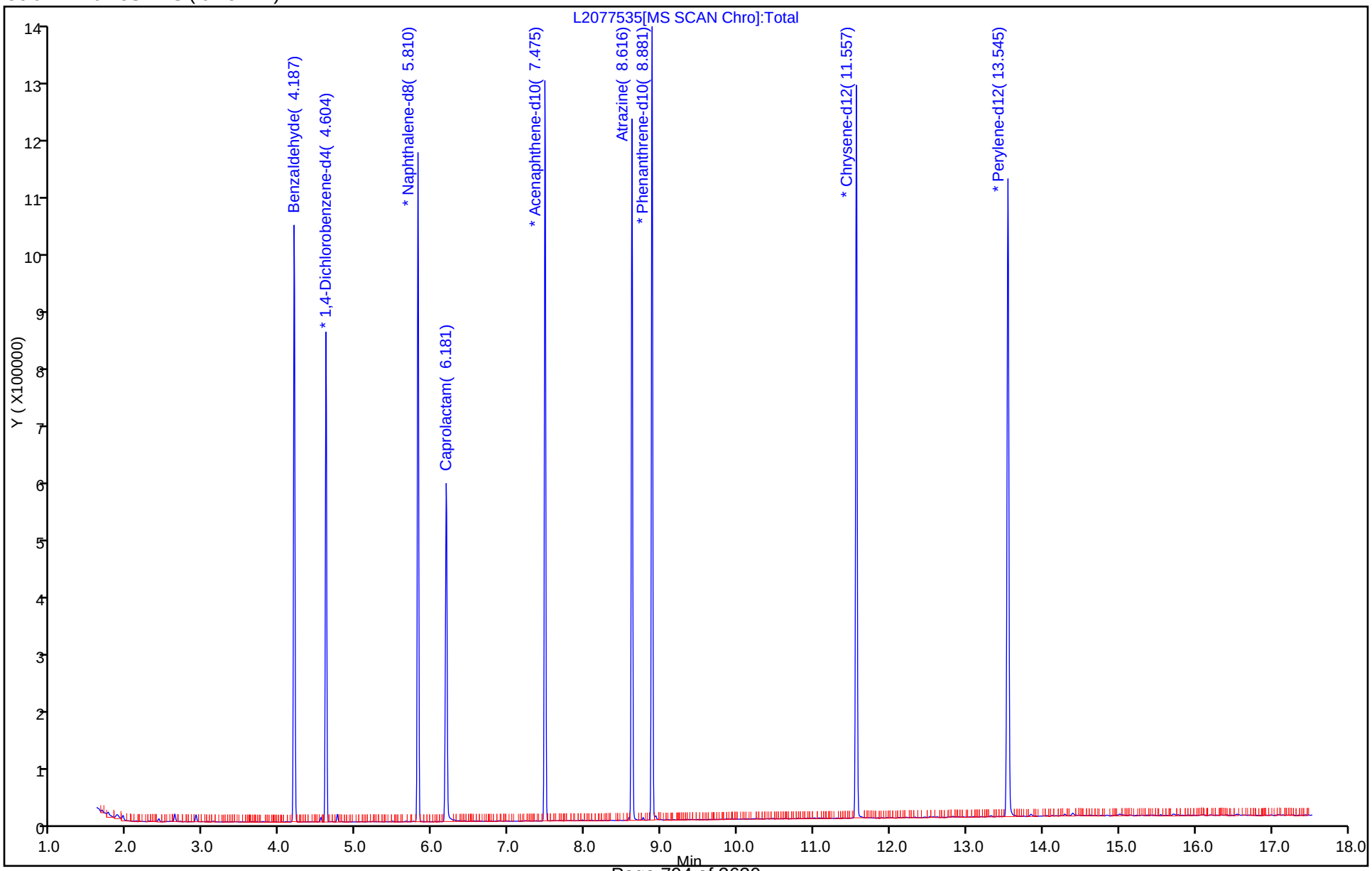
Report Date: 16-Mar-2018 10:25:26 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077535.d

Injection Date:	15-Mar-2018 18:27:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std50			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077536.d
Lims ID: Std120
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 15-Mar-2018 18:49:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-012
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:30 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:51:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.193	4.187	0.006	93	656533	120.0	124.3	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	170965	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	680989	40.0	40.0	
40 Caprolactam	113	6.198	6.181	0.017	86	200786	120.0	138.7	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	336974	40.0	40.0	
82 Atrazine	200	8.622	8.616	0.006	89	453775	120.0	136.0	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	668615	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	679966	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	645879	40.0	40.0	

Reagents:

SV_IC-S_L8_00010 Amount Added: 1.00 Units: mL

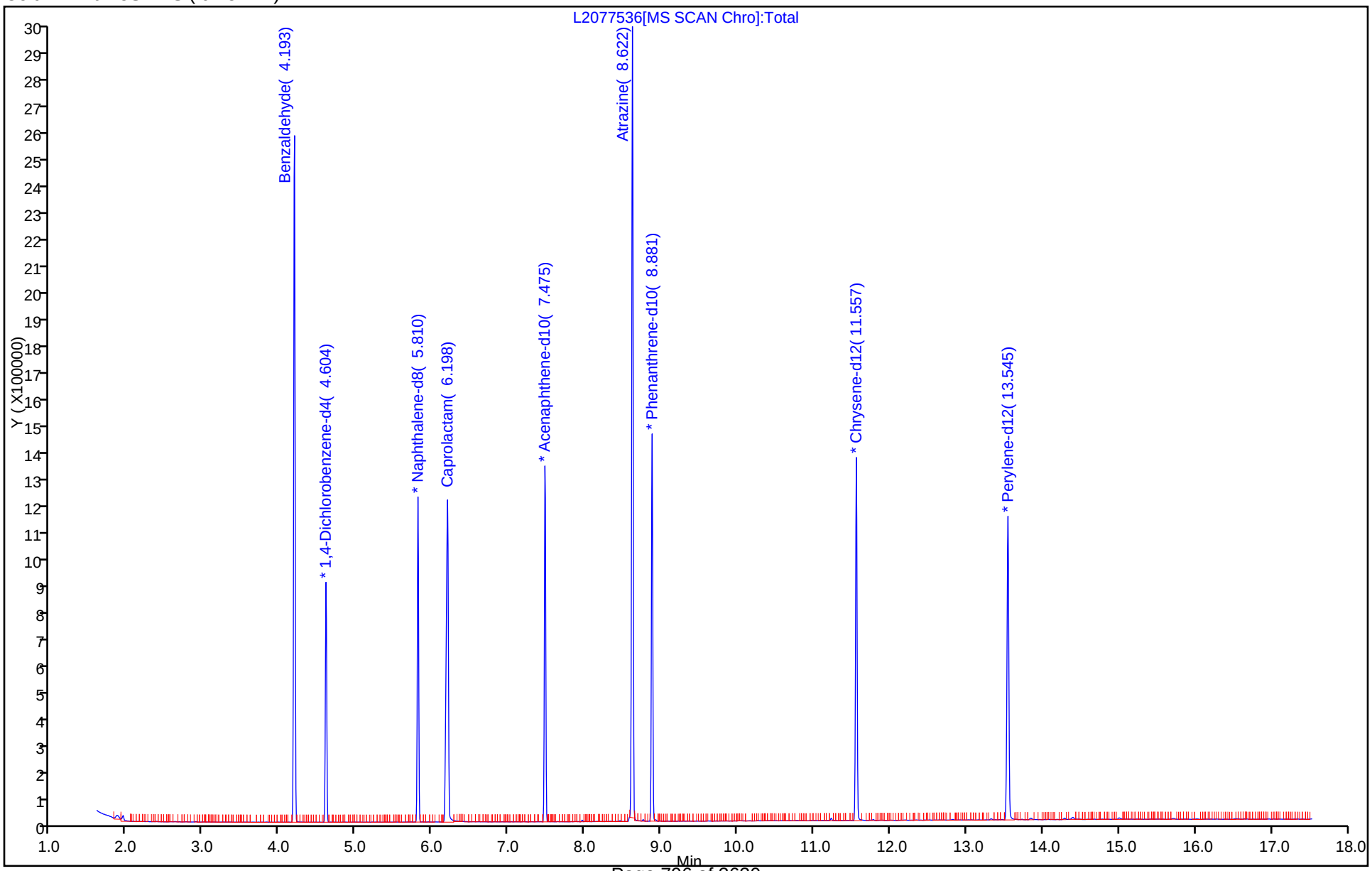
Report Date: 16-Mar-2018 10:25:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077536.d

Injection Date:	15-Mar-2018 18:49:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std120			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077537.d
Lims ID: Std80
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Mar-2018 19:12:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-013
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:35 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:51:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	93	423242	80.0	81.0	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	169051	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	666794	40.0	40.0	
40 Caprolactam	113	6.192	6.181	0.011	86	127398	80.0	89.9	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	323289	40.0	40.0	
82 Atrazine	200	8.622	8.616	0.006	88	274098	80.0	84.1	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	652824	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	651014	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	626571	40.0	40.0	

Reagents:

SV_IC-S_L7_00010 Amount Added: 1.00 Units: mL

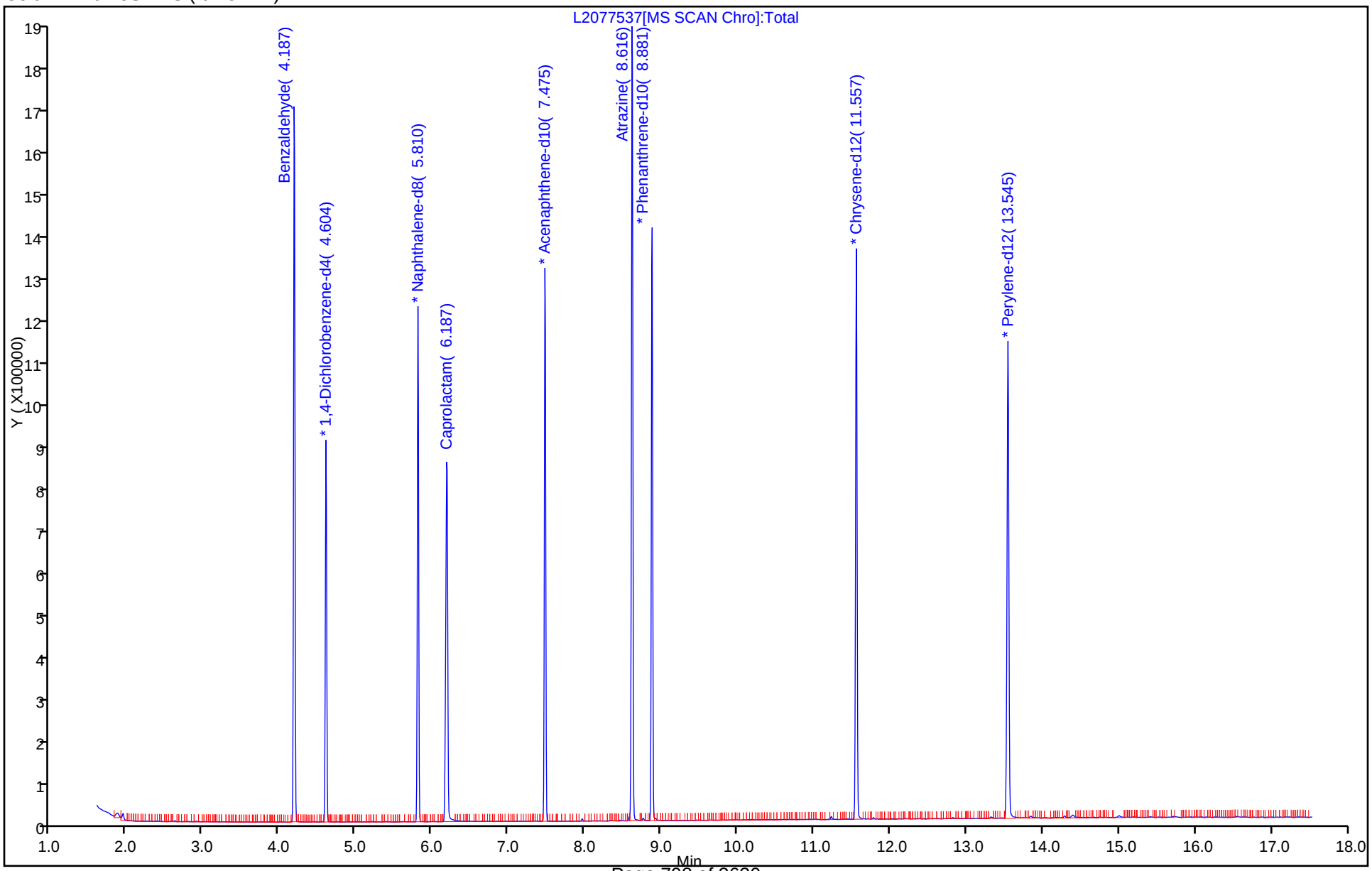
Report Date: 16-Mar-2018 10:25:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077537.d

Injection Date:	15-Mar-2018 19:12:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std80			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077538.d
Lims ID: Std20
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Mar-2018 19:35:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-014
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:40 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:51:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	92	102780	20.0	20.2	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	164759	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	655211	40.0	40.0	
40 Caprolactam	113	6.175	6.181	-0.006	86	28508	20.0	20.5	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	316938	40.0	40.0	
82 Atrazine	200	8.616	8.616	0.000	87	60879	20.0	19.4	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	630220	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	617414	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	600826	40.0	40.0	

Reagents:

SV_IC-S_L5_00013 Amount Added: 1.00 Units: mL

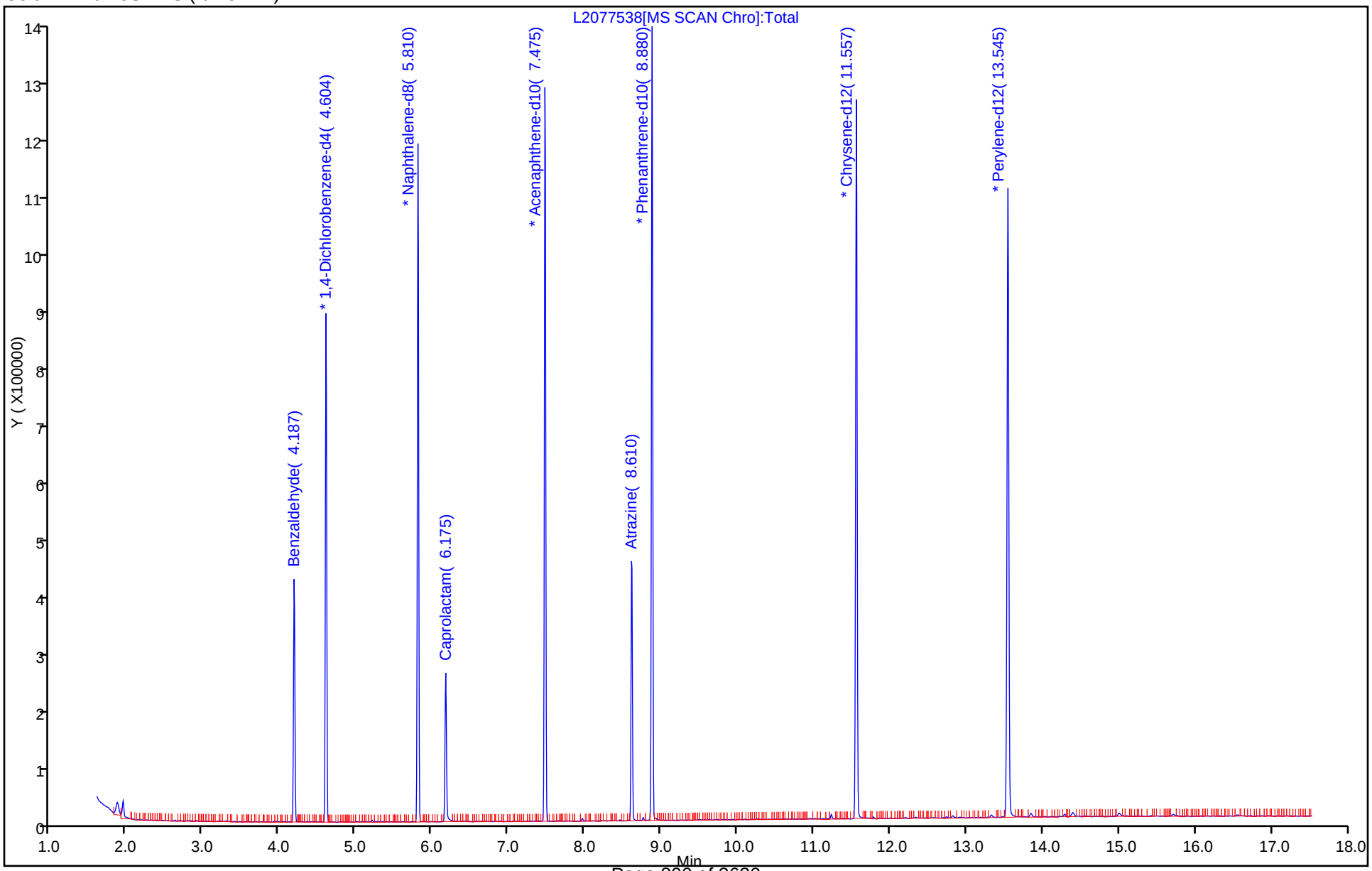
Report Date: 16-Mar-2018 10:25:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077538.d

Injection Date:	15-Mar-2018 19:35:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std20			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077539.d
Lims ID: Std10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Mar-2018 19:57:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-015
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:44 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:51:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	92	53334	10.0	9.62	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	98	179437	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	701585	40.0	40.0	
40 Caprolactam	113	6.169	6.181	-0.012	86	14783	10.0	9.91	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	346357	40.0	40.0	
82 Atrazine	200	8.610	8.616	-0.006	87	33467	10.0	9.82	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	683116	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	675188	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	646156	40.0	40.0	

Reagents:

SV_IC-S_L4_00025 Amount Added: 1.00 Units: mL

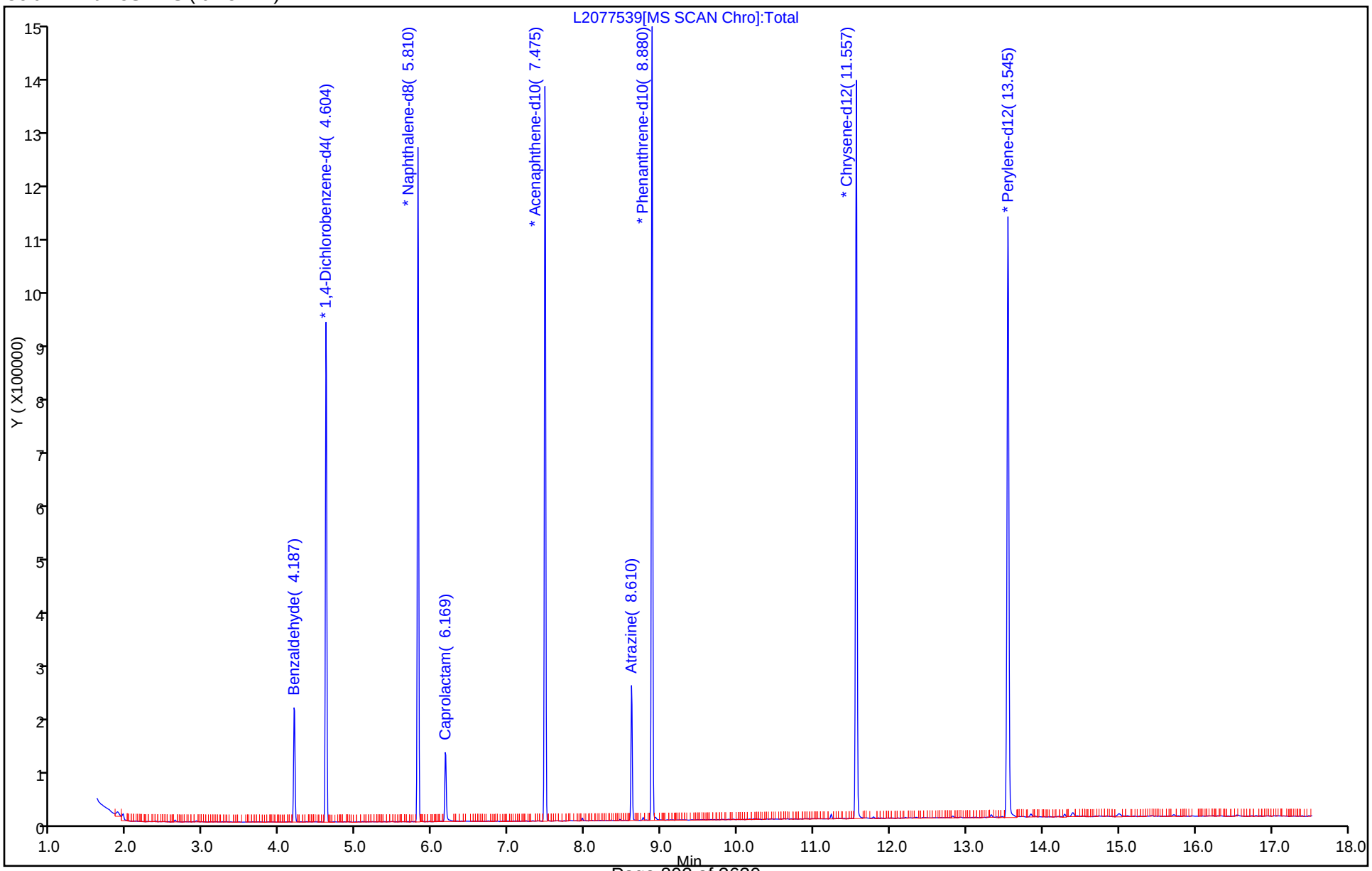
Report Date: 16-Mar-2018 10:25:45 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077539.d

Injection Date:	15-Mar-2018 19:57:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std10			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Report Date: 16-Mar-2018 10:25:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077540.d
Lims ID: Std5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Mar-2018 20:20:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-016
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:49 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:51:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	92	27288	5.00	4.74	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	186483	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	729278	40.0	40.0	
40 Caprolactam	113	6.169	6.181	-0.012	86	6535	5.00	4.21	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	357945	40.0	40.0	
82 Atrazine	200	8.610	8.616	-0.006	86	16017	5.00	4.53	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	708126	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	709924	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	98	683123	40.0	40.0	

Reagents:

SV_IC-S_L3_00017 Amount Added: 1.00 Units: mL

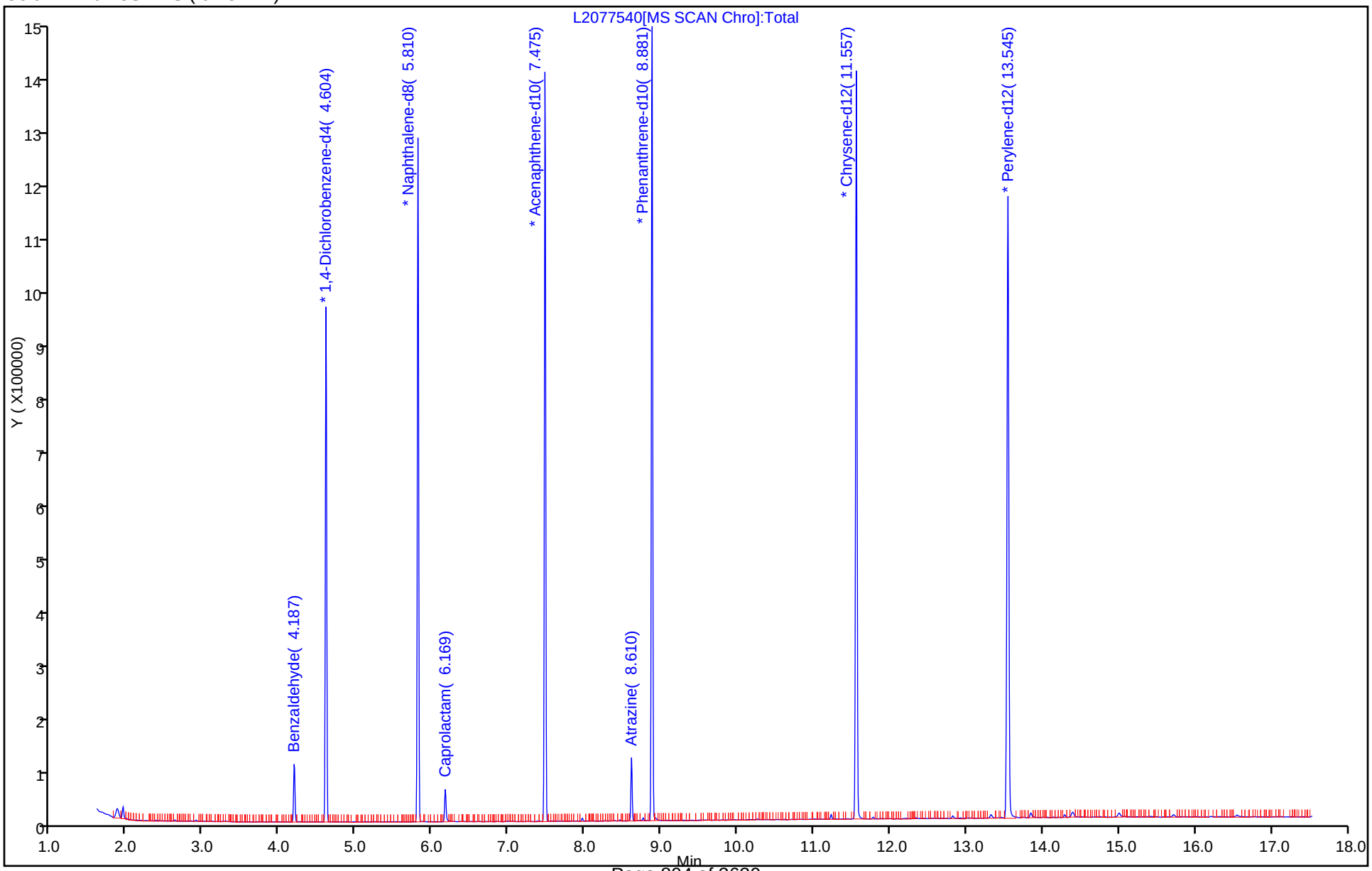
Report Date: 16-Mar-2018 10:25:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077540.d

Injection Date:	15-Mar-2018 20:20:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std5			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d
Lims ID: Std2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Mar-2018 20:42:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-017
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:54 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:52:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.192	4.187	0.005	90	10060	2.00	1.98	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	164273	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	636878	40.0	40.0	
40 Caprolactam	113	6.169	6.181	-0.012	86	2107	2.00	1.56	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	311377	40.0	40.0	
82 Atrazine	200	8.610	8.616	-0.006	85	5434	2.00	1.77	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	615646	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	622675	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	98	605163	40.0	40.0	

Reagents:

SV_IC-S_L2_00015 Amount Added: 1.00 Units: mL

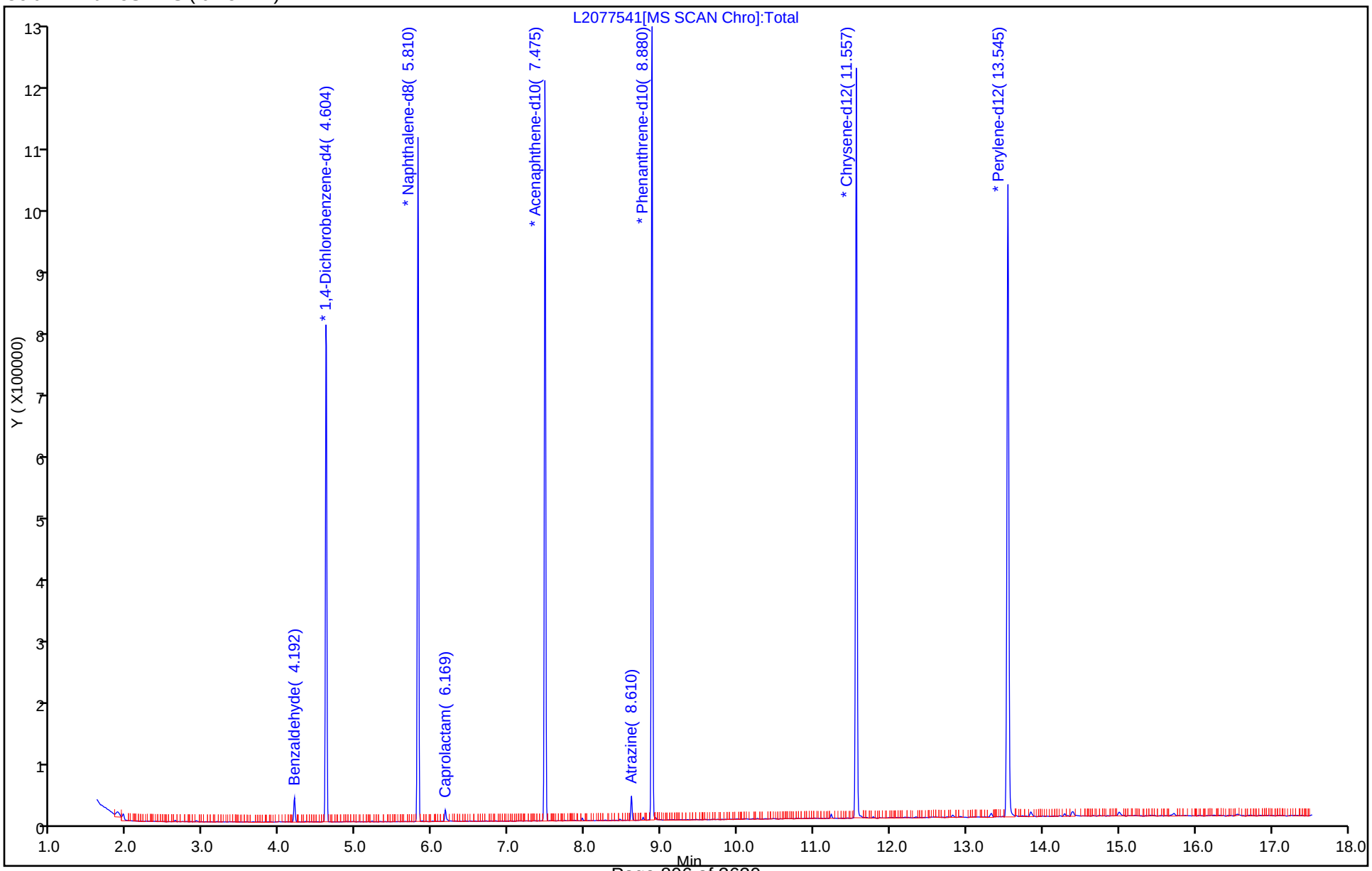
Report Date: 16-Mar-2018 10:25:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Injection Date:	15-Mar-2018 20:42:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	Std2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-500035/9	P00464.D
Level 2	STD02 460-500035/8	P00463.D
Level 3	STD1 460-500035/7	P00462.D
Level 4	STD2 460-500035/6	P00461.D
Level 5	STD4 460-500035/5	P00460.D
Level 6	ICIS 460-500035/2	P00457.D
Level 7	STD16 460-500035/4	P00459.D
Level 8	STD24 460-500035/3	P00458.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5938	0.6393	0.6578 0.6277	0.5846	0.5579	Ave		0.6102				6.2		20.0			
N-Nitrosodimethylamine	0.9910	1.0782	0.9503 1.0645	0.9107	0.8907	Ave		0.9809				8.0		20.0			
Pyridine	1.7491	1.8677	1.5780 1.7980	1.6128	1.5726	Ave		1.6964				7.4		20.0			
Phenol	2.0633	2.2293	2.0963 2.1245	1.9715	1.9420	Ave		2.0711			0.8000	5.1		20.0			
Aniline	2.3664	2.5943	2.2893 2.4705	2.2146	2.1563	Ave		2.3486				7.0		20.0			
Bis(2-chloroethyl)ether	1.3343 1.4770	1.3639 1.5920	1.5993 1.5457	1.4059	1.4065	Ave		1.4656			0.7000	7.1		20.0			
2-Chlorophenol	1.4682	1.6027	1.4424 1.5486	1.3740	1.3817	Ave		1.4696			0.8000	6.2		20.0			
n-Decane	2.1938	2.3129	2.2297 2.2410	2.0596	2.0149	Ave		2.1753				5.3		20.0			
1,3-Dichlorobenzene	1.5930	1.7325	1.6618 1.6655	1.5208	1.4824	Ave		1.6093				5.9		20.0			
1,4-Dichlorobenzene	1.5945	1.7325	1.6346 1.6746	1.5432	1.5212	Ave		1.6168				5.0		20.0			
Benzyl alcohol	0.9287	1.0093	0.9118 0.9877	0.8516	0.8066	Ave		0.9159				8.5		20.0			
1,2-Dichlorobenzene	1.5020	1.6416	1.5958 1.5770	1.4470	1.4020	Ave		1.5276				6.1		20.0			
2-Methylphenol	1.2834	1.3862	1.3529 1.3291	1.2341	1.1966	Ave		1.2970			0.7000	5.6		20.0			
2,2'-oxybis[1-chloropropane]	2.7176	2.8696	2.8586 2.7440	2.6242	2.5122	Ave		2.7210			0.0100	5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Methylaniline	0.9064 2.2210	1.7760 2.2628	2.1406 2.2626	1.9061	2.0138	Lin2	-0.120	2.1900			0.0100				0.9950		0.9900
N-Nitrosodi-n-propylamine	1.0966 1.0768	1.1658 1.1887	1.0859 1.1417	1.0477	1.0419	Ave		1.1056			0.5000	4.9		20.0			
Acetophenone	1.9713	2.1046	2.0040 2.0005	1.8564	1.8666	Ave		1.9672			0.0100	4.8		20.0			
3 & 4 Methylphenol	1.3602	1.5222	1.3934 1.4302	1.3294	1.2930	Ave		1.3881				5.9		20.0			
4-Methylphenol	1.3448	1.4983	1.3218 1.4276	1.3040	1.2814	Ave		1.3630			0.6000	6.1		20.0			
Hexachloroethane	0.6113 0.6148	0.5965 0.6602	0.6508 0.6383	0.6025	0.5704	Ave		0.6181			0.3000	4.9		20.0			
Nitrobenzene	0.5630 0.6683	0.6725 0.7082	0.6654 0.6792	0.6435	0.6151	Ave		0.6519			0.2000	6.9		20.0			
n,n'-Dimethylaniline	1.2634 2.2354	1.9135 2.2686	2.1228 2.2498	1.9393	2.0069	Lin2	-0.085	2.1794			0.0100				0.9960		0.9900
Isophorone	0.6529	0.6090 0.6906	0.6504 0.6789	0.6114	0.6039	Ave		0.6424			0.4000	5.5		20.0			
2-Nitrophenol	0.1721	0.1891	0.1559 0.1854	0.1552	0.1579	Ave		0.1693			0.1000	9.0		20.0			
2,4-Dimethylphenol	0.3033	0.3246	0.2953 0.3138	0.2859	0.2863	Ave		0.3015			0.2000	5.1		20.0			
Bis(2-chloroethoxy)methane	0.4225	0.4404	0.4107 0.4333	0.3944	0.3877	Ave		0.4148			0.3000	5.1		20.0			
Benzoic acid	0.1543	0.1700	0.0675 0.1821	0.0762	0.1171	Qua	-0.136	0.1543	0.0014104						1.0000		0.9900
2,4-Dichlorophenol	0.2638	0.2756	0.2371 0.2711	0.2416	0.2366	Ave		0.2543			0.2000	7.0		20.0			
1,2,4-Trichlorobenzene	0.2953 0.2924	0.2979 0.3027	0.2940 0.2975	0.2710	0.2629	Ave		0.2892				4.9		20.0			
Naphthalene	1.0220	1.0826	1.0365 1.0514	0.9859	0.9469	Ave		1.0209			0.7000	4.7		20.0			
4-Chloroaniline	0.4113	0.4322	0.3948 0.4271	0.3786	0.3766	Ave		0.4034			0.0100	5.9		20.0			
Hexachlorobutadiene	0.1505 0.1517	0.1377 0.1614	0.1554 0.1593	0.1418	0.1419	Ave		0.1500			0.0100	5.8		20.0			
4-Chloro-3-methylphenol	0.2645	0.2852	0.2543 0.2820	0.2534	0.2445	Ave		0.2640			0.2000	6.2		20.0			
2-Methylnaphthalene	0.6490	0.6554 0.6851	0.6515 0.6636	0.6251	0.5895	Ave		0.6456			0.4000	4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6137	0.6388	0.6279 0.6211	0.5825	0.5552	Ave		0.6065				5.2		20.0			
Hexachlorocyclopentadiene	0.3957	0.4375	0.3456 0.4279	0.3339	0.3449	Ave		0.3809			0.0500	12.0		20.0			
1,2,4,5-Tetrachlorobenzene	0.6473	0.6726	0.6452 0.6430	0.6173	0.5835	Ave		0.6348			0.0100	4.8		20.0			
2-tertbutyl-4-methylphenol	0.3890	0.3628 0.3920	0.3730 0.3959	0.3354	0.3527	Ave		0.3716				6.1		20.0			
2,4,6-Trichlorophenol	0.4106	0.4350	0.3712 0.4237	0.3627	0.3739	Ave		0.3962			0.2000	7.8		20.0			
2,4,5-Trichlorophenol	0.4413	0.4708	0.3670 0.4558	0.3744	0.3861	Ave		0.4159			0.2000	10.9		20.0			
1,1'-Biphenyl	1.8591	1.9347	1.8096 1.8675	1.7270	1.7370	Ave		1.8225			0.0100	4.4		20.0			
2-Chloronaphthalene	1.4051	1.4569	1.3765 1.4090	1.2929	1.2878	Ave		1.3714			0.8000	4.9		20.0			
Phenyl ether	0.9292	0.9095	0.8448 0.9136	0.7805	0.8164	Ave		0.8657				7.0		20.0			
2-Nitroaniline	0.5745	0.6084	0.5489 0.5158	0.4990	0.5179	Ave		0.5441			0.0100	7.6		20.0			
1,3-Dimethylnaphthalene	1.1608	1.1589	1.1061 1.1701	1.0177	1.0396	Ave		1.1089				6.0		20.0			
Dimethyl phthalate	1.4233	1.5002	1.3910 1.4625	1.3307	1.3284	Ave		1.4060			0.0100	5.0		20.0			
Coumarin	0.1987	0.2000	0.1926 0.2039	0.1688	0.1750	Ave		0.1898				7.6		20.0			
2,6-Dinitrotoluene	0.3197	0.2344 0.3378	0.2945 0.3330	0.2939	0.2951	Ave		0.3012			0.2000	11.6		20.0			
Acenaphthylene	2.0881	2.1872	2.0078 2.1481	1.9318	1.9194	Ave		2.0471			0.9000	5.5		20.0			
3-Nitroaniline	0.3912	0.4261	0.3633 0.4078	0.3489	0.3524	Ave		0.3816			0.0100	8.3		20.0			
3,5-di-tert-butyl-4-hydroxytol	1.0668	1.0606	1.0363 1.0767	0.9140	0.9494	Ave		1.0173				6.7		20.0			
Acenaphthene	1.2720	1.3012	1.2806 1.2580	1.2065	1.1844	Ave		1.2505			0.9000	3.6		20.0			
2,4-Dinitrophenol	0.1820	0.2141	0.0966 0.2150	0.1250	0.1531	Qua	-0.313	0.1988	0.0005100		0.0100				0.9980		0.9900
4-Nitrophenol	0.3028	0.3243	0.2230 0.3337	0.2439	0.2634	Ave		0.2818			0.0100	16.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dinitrotoluene	0.4288	0.3234 0.4455	0.3802 0.4428	0.3719	0.3760	Ave		0.3955			0.2000	11.4		20.0			
Dibenzofuran	1.8374	1.9178	1.8457 1.8857	1.7214	1.7073	Ave		1.8192			0.8000	4.7		20.0			
2,3,4,6-Tetrachlorophenol	0.3217	0.3551	0.2601 0.3542	0.2730	0.2901	Ave		0.3090			0.0100	13.2		20.0			
Diethyl phthalate	1.4229	1.5164	1.3732 1.5110	1.3026	1.3012	Ave		1.4045			0.0100	6.8		20.0			
Fluorene	1.4298	1.4825	1.4041 1.4366	1.3500	1.3417	Ave		1.4075			0.9000	3.8		20.0			
4-Chlorophenyl phenyl ether	0.6272	0.6448	0.6339 0.6336	0.5888	0.5949	Ave		0.6205			0.4000	3.7		20.0			
4-Nitroaniline	0.3763	0.4118	0.3394 0.4012	0.3532	0.3405	Ave		0.3704			0.0100	8.4		20.0			
4,6-Dinitro-2-methylphenol	0.1164	0.1322	0.0843 0.1318	0.0937	0.1003	Ave		0.1098			0.0100	18.4		20.0			
N-Nitrosodiphenylamine	0.5943	0.6104	0.5742 0.6172	0.5417	0.5342	Ave		0.5787			0.0100	6.0		20.0			
1,2-Diphenylhydrazine	0.9555	0.9883	0.9384 0.9930	0.8857	0.8809	Ave		0.9403				5.2		20.0			
4-Bromophenyl phenyl ether	0.2188	0.2279	0.2211 0.2266	0.2038	0.2064	Ave		0.2174			0.1000	4.7		20.0			
Hexachlorobenzene	0.2089 0.2357	0.2295 0.2433	0.2337 0.2438	0.2229	0.2165	Ave		0.2293			0.1000	5.4		20.0			
Pentachlorophenol	0.1281	0.1416	0.0732 0.1430	0.0890	0.1064	Lin2	-0.144	0.1370			0.0500				0.9910		0.9900
Pentachloronitrobenzene	0.1004	0.1065	0.0941 0.1109	0.0850	0.0857	Ave		0.0971			0.0100	11.0		20.0			
n-Octadecane	0.7352	0.7642	0.6532 0.7589	0.6594	0.6599	Ave		0.7051				7.5		20.0			
Phenanthrene	1.1516	1.2160	1.1749 1.1842	1.1074	1.0709	Ave		1.1508			0.7000	4.6		20.0			
Anthracene	1.1983	1.2431	1.1746 1.2289	1.1228	1.0768	Ave		1.1741			0.7000	5.4		20.0			
Carbazole	1.0488	1.1145	0.9903 1.0914	0.9773	0.9697	Ave		1.0320			0.0100	6.0		20.0			
Di-n-butyl phthalate	1.2447	1.3166	1.1522 1.3153	1.0782	1.1150	Ave		1.2037			0.0100	8.6		20.0			
Fluoranthene	1.1219	1.2011	1.0531 1.1737	1.0248	1.0357	Ave		1.1017			0.6000	6.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzidine	0.5860	0.7073	0.3091 0.7211	0.5048	0.5070	Qua	-0.382	0.6142	0.0053663						0.9980		0.9900
Pyrene	1.3473	1.5198	1.4683 1.4898	1.3497	1.3884	Ave		1.4272			0.6000	5.2		20.0			
Bisphenol-A	0.5325	0.6364	0.4078 0.6414	0.4472	0.5033	Ave		0.5281				18.2		20.0			
Butyl benzyl phthalate	0.5798	0.6813	0.5480 0.6856	0.5392	0.5612	Ave		0.5992			0.0100	11.1		20.0			
2,3,7,8-TCDD	0.1612					Ave		0.1612						20.0			
Carbamazepine	0.5006	0.5893	0.3185 0.6231	0.3469	0.4267	Qua	-0.299	0.4932	0.0060763						0.9990		0.9900
3,3'-Dichlorobenzidine	0.4209	0.2647 0.4985	0.3864 +++++	0.3825	0.4080	QuaF		0.3343	0.0100805		0.0100				0.9990		0.9900
Benzo[a]anthracene	1.2776 1.1013	1.1824 1.2738	1.1594 1.2511	1.0960	1.1264	Ave		1.1835			0.8000	6.4		20.0			
Chrysene	1.0555	1.1653 1.2039	1.2097 1.2077	1.1039	1.1001	Ave		1.1494			0.7000	5.5		20.0			
Bis(2-ethylhexyl) phthalate	0.7675	0.5288 0.9104	0.7057 0.9120	0.7023	0.7479	Ave		0.7535			0.0100	17.6		20.0			
Di-n-octyl phthalate	1.3356	1.4774	1.0777 1.4803	1.1071	1.1551	Ave		1.2722			0.0100	14.4		20.0			
Benzo[b]fluoranthene	1.1961	1.0496 1.2419	1.0877 1.2358	1.0429	1.0633	Ave		1.1310			0.7000	7.9		20.0			
Benzo[k]fluoranthene	0.9739 1.2295	1.1024 1.3491	1.1814 1.2667	1.1771	1.1433	Ave		1.1779			0.7000	9.5		20.0			
Benzo[a]pyrene	1.0095 1.1586	0.9851 1.2356	1.0719 1.1944	1.0388	1.0463	Ave		1.0925			0.7000	8.4		20.0			
Indeno[1,2,3-cd]pyrene	0.8299 1.0747	0.8504 1.1729	0.9508 1.2138	0.9263	0.9459	Ave		0.9956			0.5000	14.4		20.0			
Dibenz(a,h)anthracene	0.8187 1.1113	0.8663 1.2061	1.0520 1.1750	0.9706	0.9959	Ave		1.0245			0.4000	13.6		20.0			
Benzo[g,h,i]perylene	1.1628	1.2313	1.0799 1.2227	1.0260	1.0227	Ave		1.1242			0.5000	8.4		20.0			
2-Fluorophenol (Surr)	1.2717 1.4827	1.4463 1.6467	1.4029 1.6414	1.3108	1.3506	Ave		1.4441				9.8		20.0			
Phenol-d5 (Surr)	1.8754	1.6279 2.0688	1.8060 2.0337	1.6776	1.6809	Ave		1.8243				9.7		20.0			
Nitrobenzene-d5 (Surr)	0.3921 0.4008	0.3563 0.4233	0.3803 0.4319	0.3620	0.3585	Ave		0.3882				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Fluorobiphenyl	1.6448	1.6279 1.7236	1.5628 1.7173	1.4853	1.4668	Ave		1.6041				6.4		20.0			
2,4,6-Tribromophenol (Surr)	0.2058	0.0532 0.2262	0.1649 0.2303	0.1684	0.1773	Lin2	-0.032	0.2066			0.0100				0.9900		0.9900
Terphenyl-d14 (Surr)	0.9738 0.8869	0.9909 1.0951	1.0161 1.1241	0.9617	0.9600	Ave		1.0011				7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-500035/9	P00464.D
Level 2	STD02 460-500035/8	P00463.D
Level 3	STD1 460-500035/7	P00462.D
Level 4	STD2 460-500035/6	P00461.D
Level 5	STD4 460-500035/5	P00460.D
Level 6	ICIS 460-500035/2	P00457.D
Level 7	STD16 460-500035/4	P00459.D
Level 8	STD24 460-500035/3	P00458.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	86244	132152	10446 202393	18386	33965	10.0	16.0	1.00 24.0	2.00	4.00
N-Nitrosodimethylamine	DCBd 4	Ave	143937	222888	15090 343219	28644	54226	10.0	16.0	1.00 24.0	2.00	4.00
Pyridine	DCBd 4	Ave	508127	772191	50115 1159438	101457	191481	20.0	32.0	2.00 48.0	4.00	8.00
Phenol	DCBd 4	Ave	299700	460850	33288 684969	62009	118227	10.0	16.0	1.00 24.0	2.00	4.00
Aniline	DCBd 4	Ave	343725	536305	36354 796522	69656	131273	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd 4	Ave	1768 214531	3462 329109	25396 498355	44219	85630	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Chlorophenol	DCBd 4	Ave	213259	331325	22905 499301	43216	84117	10.0	16.0	1.00 24.0	2.00	4.00
n-Decane	DCBd 4	Ave	318656	478142	35407 722539	64781	122667	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dichlorobenzene	DCBd 4	Ave	231376	358147	26389 536996	47835	90247	10.0	16.0	1.00 24.0	2.00	4.00
1,4-Dichlorobenzene	DCBd 4	Ave	231606	358153	25957 539936	48538	92608	10.0	16.0	1.00 24.0	2.00	4.00
Benzyl alcohol	DCBd 4	Ave	134887	208651	14479 318469	26785	49104	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Dichlorobenzene	DCBd 4	Ave	218171	339367	25340 508454	45513	85355	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylphenol	DCBd 4	Ave	186414	286553	21483 428542	38817	72848	10.0	16.0	1.00 24.0	2.00	4.00
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	394725	593214	45393 884710	82541	152942	10.0	16.0	1.00 24.0	2.00	4.00
N-Methylaniline	DCBd 4	Lin2	1201 322593	4508 467779	33992 729507	59953	122601	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCBd 4	Ave	1453 156398	2959 245741	17244 368120	32955	63430	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acetophenone	DCBd 4	Ave	286331	435076	31822 645006	58389	113638	10.0	16.0	1.00 24.0	2.00	4.00
3 & 4 Methylphenol	DCBd 4	Ave	197563	314681	22127 461127	41813	78718	10.0	16.0	1.00 24.0	2.00	4.00
4-Methylphenol	DCBd 4	Ave	195327	309737	20989 460271	41016	78014	10.0	16.0	1.00 24.0	2.00	4.00
Hexachloroethane	DCBd 4	Ave	810 89305	1514 136473	10335 205797	18952	34723	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene	DCBd 4	Ave	746 97068	1707 146395	10567 218982	20241	37445	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
n,n'-Dimethylaniline	DCBd 4	Lin2	1674 324692	4857 468968	33710 725366	60996	122182	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Isophorone	NPT	Ave	372317	6125 578411	41900 870854	76290	146383	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Nitrophenol	NPT	Ave	98170	158372	10045 237849	19361	38276	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	172981	271869	19021 402473	35677	69403	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	240929	368889	26459 555806	49210	93978	10.0	16.0	1.00 24.0	2.00	4.00
Benzoic acid	NPT	Qua	88019	142422	4349 233552	9513	28396	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dichlorophenol	NPT	Ave	150461	230814	15277 347794	30143	57360	10.0	16.0	1.00 24.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	1583 166770	2996 253537	18941 381633	33818	63728	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Naphthalene	NPT	Ave	582802	906763	66772 1348635	123028	229521	10.0	16.0	1.00 24.0	2.00	4.00
4-Chloroaniline	NPT	Ave	234536	361984	25434 547815	47241	91294	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	807 86496	1385 135219	10012 204280	17696	34388	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
4-Chloro-3-methylphenol	NPT	Ave	150815	238871	16384 361793	31620	59273	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	370083	6592 573772	41967 851271	78001	142897	10.0	0.200 16.0	1.00 24.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	349995	535030	40446 796708	72685	134570	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorocyclopentadiene	ANT	Ave	86805	143351	8757 216180	16507	32467	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	142008	220400	16345 324830	30522	54921	10.0	16.0	1.00 24.0	2.00	4.00
2-tertbutyl-4-methylphenol	NPT	Ave	221858	3649 328351	24026 507847	41846	85501	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Ave	90064	142539	9404 214060	17930	35191	10.0	16.0	1.00 24.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Ave	96813	154279	9298 230266	18509	36341	10.0	16.0	1.00 24.0	2.00	4.00
1,1'-Biphenyl	ANT	Ave	407841	633953	45846 943406	85382	163504	10.0	16.0	1.00 24.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	308233	477388	34874 711793	63921	121216	10.0	16.0	1.00 24.0	2.00	4.00
Phenyl ether	ANT	Ave	203834	298026	21404 461545	38587	76845	10.0	16.0	1.00 24.0	2.00	4.00
2-Nitroaniline	ANT	Ave	126034	199370	13907 260589	24669	48745	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dimethylnaphthalene	ANT	Ave	254643	379762	28023 591108	50314	97854	10.0	16.0	1.00 24.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	312229	491584	35241 738821	65792	125041	10.0	16.0	1.00 24.0	2.00	4.00
Coumarin	NPT	Ave	113310	167483	12404 261537	21062	42419	10.0	16.0	1.00 24.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Ave	70134	930 110696	7460 168208	14533	27773	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acenaphthylene	ANT	Ave	458078	716712	50868 1085167	95508	180671	10.0	16.0	1.00 24.0	2.00	4.00
3-Nitroaniline	ANT	Ave	85812	139629	9203 205995	17248	33168	10.0	16.0	1.00 24.0	2.00	4.00
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	234027	347534	26255 543931	45189	89364	10.0	16.0	1.00 24.0	2.00	4.00
Acenaphthene	ANT	Ave	279043	426364	32445 635509	59650	111491	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dinitrophenol	ANT	Qua	79872	140279	4895 217265	12365	28822	20.0	32.0	2.00 48.0	4.00	8.00
4-Nitrophenol	ANT	Ave	132836	212555	11297 337202	24115	49584	20.0	32.0	2.00 48.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Ave	94068	1283 145971	9632 223675	18385	35394	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenzofuran	ANT	Ave	403084	628420	46760 952584	85107	160711	10.0	16.0	1.00 24.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	70570	116345	6590 178918	13495	27307	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Diethyl phthalate	ANT	Ave	312139	496904	34790 763311	64399	122478	10.0	16.0	1.00 24.0	2.00	4.00
Fluorene	ANT	Ave	313663	485785	35574 725727	66747	126297	10.0	16.0	1.00 24.0	2.00	4.00
4-Chlorophenyl phenyl ether	ANT	Ave	137593	211290	16060 320076	29113	55997	10.0	16.0	1.00 24.0	2.00	4.00
4-Nitroaniline	ANT	Ave	82555	134939	8599 202688	17460	32047	10.0	16.0	1.00 24.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Ave	88588	152029	7335 231991	15930	32933	20.0	32.0	2.00 48.0	4.00	8.00
N-Nitrosodiphenylamine	PHN	Ave	226118	351062	24985 543186	46068	87738	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	363555	568430	40830 873971	75327	144671	10.0	16.0	1.00 24.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	83249	131056	9622 199407	17331	33896	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	738 89667	1546 139958	10167 214570	18958	35557	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Pentachlorophenol	PHN	Lin2	97455	162830	6370 251697	15134	34934	20.0	32.0	2.00 48.0	4.00	8.00
Pentachloronitrobenzene	PHN	Ave	38210	61263	4095 97592	7231	14071	10.0	16.0	1.00 24.0	2.00	4.00
n-Octadecane	PHN	Ave	279758	439514	28421 667903	56080	108381	10.0	16.0	1.00 24.0	2.00	4.00
Phenanthrene	PHN	Ave	438189	699375	51121 1042240	94179	175871	10.0	16.0	1.00 24.0	2.00	4.00
Anthracene	PHN	Ave	455965	714935	51109 1081541	95490	176845	10.0	16.0	1.00 24.0	2.00	4.00
Carbazole	PHN	Ave	399070	641012	43087 960586	83114	159247	10.0	16.0	1.00 24.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	473608	757206	50132 1157647	91699	183115	10.0	16.0	1.00 24.0	2.00	4.00
Fluoranthene	PHN	Ave	426865	690812	45820 1032984	87153	170083	10.0	16.0	1.00 24.0	2.00	4.00
Benzidine	PHN	Qua	222956	406801	13447 634620	42931	83258	10.0	16.0	1.00 24.0	2.00	4.00
Pyrene	CRY	Ave	437105	691052	48797 1036228	89864	176180	10.0	16.0	1.00 24.0	2.00	4.00
Bisphenol-A	CRY	Ave	172746	289391	13553 446096	29777	63863	10.0	16.0	1.00 24.0	2.00	4.00
Butyl benzyl phthalate	CRY	Ave	188104	309792	18213 476840	35902	71213	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,3,7,8-TCDD	CRY	Ave	523					0.100				
Carbamazepine	CRY	Qua	162414	267955	10584 433384	23094	54139	10.0	16.0	1.00 24.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	QuaF	136549	1312 226676	12842 +++++	25464	51767	10.0	0.200 16.0	1.00 +++++	2.00	4.00
Benzo[a]anthracene	CRY	Ave	3301 357283	5861 579208	38531 870196	72970	142929	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Chrysene	CRY	Ave	342421	5776 547411	40205 839988	73498	139594	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	248986	2621 413976	23453 634329	46759	94904	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Di-n-octyl phthalate	PRY	Ave	410737	697474	36362 1083742	73784	149785	10.0	16.0	1.00 24.0	2.00	4.00
Benzo[b]fluoranthene	PRY	Ave	367822	5390 586313	36700 904704	69508	137874	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[k]fluoranthene	PRY	Ave	2517 378100	5661 636894	39860 927376	78451	148255	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[a]pyrene	PRY	Ave	2609 356296	5059 583334	36166 874430	69230	135678	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	2145 330489	4367 553703	32082 888597	61734	122653	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Ave	2116 341769	4449 569386	35496 860220	64689	129142	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[g,h,i]perylene	PRY	Ave	357583	581300	36436 895155	68382	132616	10.0	16.0	1.00 24.0	2.00	4.00
2-Fluorophenol (Surr)	DCBd 4	Ave	1685 215355	3671 340413	22278 529208	41230	82226	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Phenol-d5 (Surr)	DCBd 4	Ave	272397	4132 427679	28678 655711	52767	102336	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene-d5 (Surr)	NPT	Ave	2102 228565	3584 354550	24498 554026	45169	86905	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	360817	6459 564785	39594 867524	73436	138073	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Tribromophenol (Surr)	ANT	Lin2	45146	211 74108	4179 116341	8326	16685	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Terphenyl-d14 (Surr)	CRY	Ave	2516 287729	4912 497943	33769 781870	64029	121819	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 15:38 Calibration End Date: 02/27/2018 18:23 Calibration ID: 66771

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00457.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 27-Feb-2018 15:38:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-002
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:39:32 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 27-Feb-2018 16:03:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.764	1.764	0.000	95	86244	10.0	9.73	
2 N-Nitrosodimethylamine	74	1.971	1.971	0.000	86	143937	10.0	10.1	
3 Pyridine	79	2.003	2.003	0.000	83	508127	20.0	20.6	
$ 4 2-Fluorophenol	112	3.085	3.085	0.000	92	215355	10.0	10.3	
$ 6 Phenol-d5	99	3.969	3.969	0.000	98	272397	10.0	10.3	
7 Phenol	94	3.982	3.982	0.000	95	299700	10.0	9.96	
8 Aniline	93	3.995	3.995	0.000	94	343725	10.0	10.1	
9 Bis(2-chloroethyl)ether	93	4.049	4.049	0.000	90	214531	10.0	10.1	
10 Benzonitrile	103	4.068	4.068	0.000	99	424937	NC	NC	
11 2-Chlorophenol	128	4.113	4.113	0.000	92	213259	10.0	10.0	
12 n-Decane	43	4.158	4.158	0.000	94	318656	10.0	10.1	
13 1,3-Dichlorobenzene	146	4.254	4.254	0.000	94	231376	10.0	9.90	
* 14 1,4-Dichlorobenzene-d4	152	4.308	4.308	0.000	97	116200	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.324	4.324	0.000	92	231606	10.0	9.86	
16 Benzyl alcohol	108	4.439	4.439	0.000	91	134887	10.0	10.1	
17 1,2-Dichlorobenzene	146	4.471	4.471	0.000	94	218171	10.0	9.83	
18 2-Methylphenol	108	4.557	4.557	0.000	85	186414	10.0	9.89	
19 2,2'-oxybis[1-chloropropan	45	4.567	4.567	0.000	93	394725	10.0	9.99	
20 N-Methylaniline	106	4.682	4.682	0.000	92	322593	10.0	10.2	
22 N-Nitrosodi-n-propylamine	70	4.691	4.691	0.000	93	156398	10.0	9.74	
21 Acetophenone	105	4.691	4.691	0.000	93	286331	10.0	10.0	
23 3 & 4 Methylphenol	108	4.707	4.707	0.000	75	197563	10.0	9.80	
24 4-Methylphenol	108	4.707	4.707	0.000	94	195327	10.0	9.87	
25 Hexachloroethane	117	4.793	4.793	0.000	93	89305	10.0	9.95	
$ 27 Nitrobenzene-d5	82	4.835	4.835	0.000	91	228565	10.0	10.3	
28 Nitrobenzene	123	4.851	4.851	0.000	90	97068	10.0	10.3	
29 n,n'-Dimethylaniline	120	4.857	4.857	0.000	98	324692	10.0	10.3	
30 Isophorone	82	5.078	5.078	0.000	99	372317	10.0	10.2	
32 2-Nitrophenol	139	5.158	5.158	0.000	87	98170	10.0	10.2	
33 2,4-Dimethylphenol	122	5.209	5.209	0.000	90	172981	10.0	10.1	
34 Bis(2-chloroethoxy)methane	93	5.289	5.289	0.000	95	240929	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.320	5.320	0.000	89	88019	10.0	9.98	
36 2,4-Dichlorophenol	162	5.394	5.394	0.000	93	150461	10.0	10.4	
37 1,2,4-Trichlorobenzene	180	5.467	5.467	0.000	94	166770	10.0	10.1	
* 38 Naphthalene-d8	136	5.519	5.519	0.000	99	456210	8.00	8.00	
39 Naphthalene	128	5.541	5.541	0.000	99	582802	10.0	10.0	
40 4-Chloroaniline	127	5.595	5.595	0.000	95	234536	10.0	10.2	
41 Hexachlorobutadiene	225	5.669	5.669	0.000	93	86496	10.0	10.1	
43 4-Chloro-3-methylphenol	107	6.071	6.071	0.000	98	150815	10.0	10.0	
44 2-Methylnaphthalene	142	6.199	6.199	0.000	84	370083	10.0	10.1	
45 1-Methylnaphthalene	142	6.292	6.292	0.000	93	349995	10.0	10.1	
46 Hexachlorocyclopentadiene	237	6.359	6.359	0.000	96	86805	10.0	10.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.362	6.362	0.000	95	142008	10.0	10.2	
48 2-tertbutyl-4-methylphenol	149	6.400	6.400	0.000	89	221858	10.0	10.5	
49 2,4,6-Trichlorophenol	196	6.474	6.474	0.000	86	90064	10.0	10.4	
50 2,4,5-Trichlorophenol	196	6.512	6.512	0.000	96	96813	10.0	10.6	
$ 51 2-Fluorobiphenyl	172	6.551	6.551	0.000	97	360817	10.0	10.3	
52 1,1'-Biphenyl	154	6.643	6.643	0.000	96	407841	10.0	10.2	
53 2-Chloronaphthalene	162	6.659	6.659	0.000	97	308233	10.0	10.2	
54 Phenyl ether	170	6.742	6.742	0.000	88	203834	10.0	10.7	
55 2-Nitroaniline	65	6.762	6.762	0.000	96	126034	10.0	10.6	
57 1,3-Dimethylnaphthalene	156	6.867	6.867	0.000	89	254643	10.0	10.5	
59 Dimethyl phthalate	163	6.937	6.937	0.000	98	312229	10.0	10.1	
60 Coumarin	146	6.953	6.953	0.000	78	113310	10.0	10.5	
61 2,6-Dinitrotoluene	165	6.989	6.989	0.000	91	70134	10.0	10.6	
62 Acenaphthylene	152	7.053	7.053	0.000	97	458078	10.0	10.2	
63 3-Nitroaniline	138	7.148	7.148	0.000	92	85812	10.0	10.3	
* 64 Acenaphthene-d10	164	7.187	7.187	0.000	99	175499	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.216	7.216	0.000	98	234027	10.0	10.5	
66 Acenaphthene	154	7.216	7.216	0.000	97	279043	10.0	10.2	
67 2,4-Dinitrophenol	184	7.248	7.248	0.000	90	79872	20.0	19.0	
68 4-Nitrophenol	65	7.334	7.334	0.000	95	132836	20.0	21.5	
69 2,4-Dinitrotoluene	165	7.369	7.369	0.000	93	94068	10.0	10.8	
70 Dibenzofuran	168	7.382	7.382	0.000	95	403084	10.0	10.1	
72 2,3,4,6-Tetrachlorophenol	232	7.503	7.503	0.000	90	70570	10.0	10.4	
73 Diethyl phthalate	149	7.606	7.606	0.000	97	312139	10.0	10.1	
75 Fluorene	166	7.702	7.702	0.000	94	313663	10.0	10.2	
74 4-Chlorophenyl phenyl ethe	204	7.705	7.705	0.000	82	137593	10.0	10.1	
76 4-Nitroaniline	138	7.730	7.730	0.000	95	82555	10.0	10.2	
77 4,6-Dinitro-2-methylphenol	198	7.756	7.756	0.000	76	88588	20.0	21.2	
78 N-Nitrosodiphenylamine	169	7.820	7.820	0.000	98	226118	10.0	10.3	
79 1,2-Diphenylhydrazine	77	7.855	7.855	0.000	99	363555	10.0	10.2	
$ 80 2,4,6-Tribromophenol	330	7.932	7.932	0.000	94	45146	10.0	10.1	
81 4-Bromophenyl phenyl ether	248	8.165	8.165	0.000	87	83249	10.0	10.1	
82 Hexachlorobenzene	284	8.229	8.229	0.000	99	89667	10.0	10.3	
84 Pentachlorophenol	266	8.417	8.417	0.000	93	97455	20.0	19.7	
85 Pentachloronitrobenzene	237	8.427	8.427	0.000	86	38210	10.0	10.3	
86 n-Octadecane	57	8.504	8.504	0.000	93	279758	10.0	10.4	
* 87 Phenanthrene-d10	188	8.587	8.587	0.000	99	304398	8.00	8.00	
88 Phenanthrene	178	8.609	8.609	0.000	99	438189	10.0	10.0	
89 Anthracene	178	8.654	8.654	0.000	98	455965	10.0	10.2	
90 Carbazole	167	8.814	8.814	0.000	96	399070	10.0	10.2	
91 Di-n-butyl phthalate	149	9.152	9.152	0.000	99	473608	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.730	9.730	0.000	97	426865	10.0	10.2	
93 Benzidine	184	9.864	9.864	0.000	99	222956	10.0	9.39	
94 Pyrene	202	9.944	9.944	0.000	96	437105	10.0	9.44	
95 Bisphenol-A	213	10.005	10.005	0.000	97	172746	10.0	10.1	
$ 96 Terphenyl-d14	244	10.101	10.101	0.000	99	287729	10.0	8.86	
97 Butyl benzyl phthalate	149	10.596	10.596	0.000	97	188104	10.0	9.68	
98 2,3,7,8-TCDD	320	10.688	10.688	0.000	87	523	0.1000	0.1000	
99 Carbamazepine	193	10.704	10.704	0.000	93	162414	10.0	9.62	
100 3,3'-Dichlorobenzidine	252	11.164	11.164	0.000	99	136549	10.0	9.73	
101 Benzo[a]anthracene	228	11.180	11.180	0.000	99	357283	10.0	9.31	
* 102 Chrysene-d12	240	11.193	11.193	0.000	98	259542	8.00	8.00	
104 Chrysene	228	11.222	11.222	0.000	98	342421	10.0	9.18	
103 Bis(2-ethylhexyl) phthalat	149	11.247	11.247	0.000	88	248986	10.0	10.2	
105 Di-n-octyl phthalate	149	12.058	12.058	0.000	97	410737	10.0	10.5	
106 Benzo[b]fluoranthene	252	12.521	12.521	0.000	97	367822	10.0	10.6	
107 Benzo[k]fluoranthene	252	12.560	12.560	0.000	98	378100	10.0	10.4	
108 Benzo[a]pyrene	252	12.962	12.962	0.000	96	356296	10.0	10.6	M
* 109 Perylene-d12	264	13.039	13.039	0.000	97	246022	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.559	14.559	0.000	98	330489	10.0	10.8	M
111 Dibenz(a,h)anthracene	278	14.597	14.597	0.000	96	341769	10.0	10.8	
112 Benzo[g,h,i]perylene	276	14.971	14.971	0.000	94	357583	10.0	10.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL6_00048 Amount Added: 1.00 Units: mL

Report Date: 28-Feb-2018 11:39:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00457.D

Injection Date: 27-Feb-2018 15:38:30 Instrument ID: CBNAMS18 Operator ID:

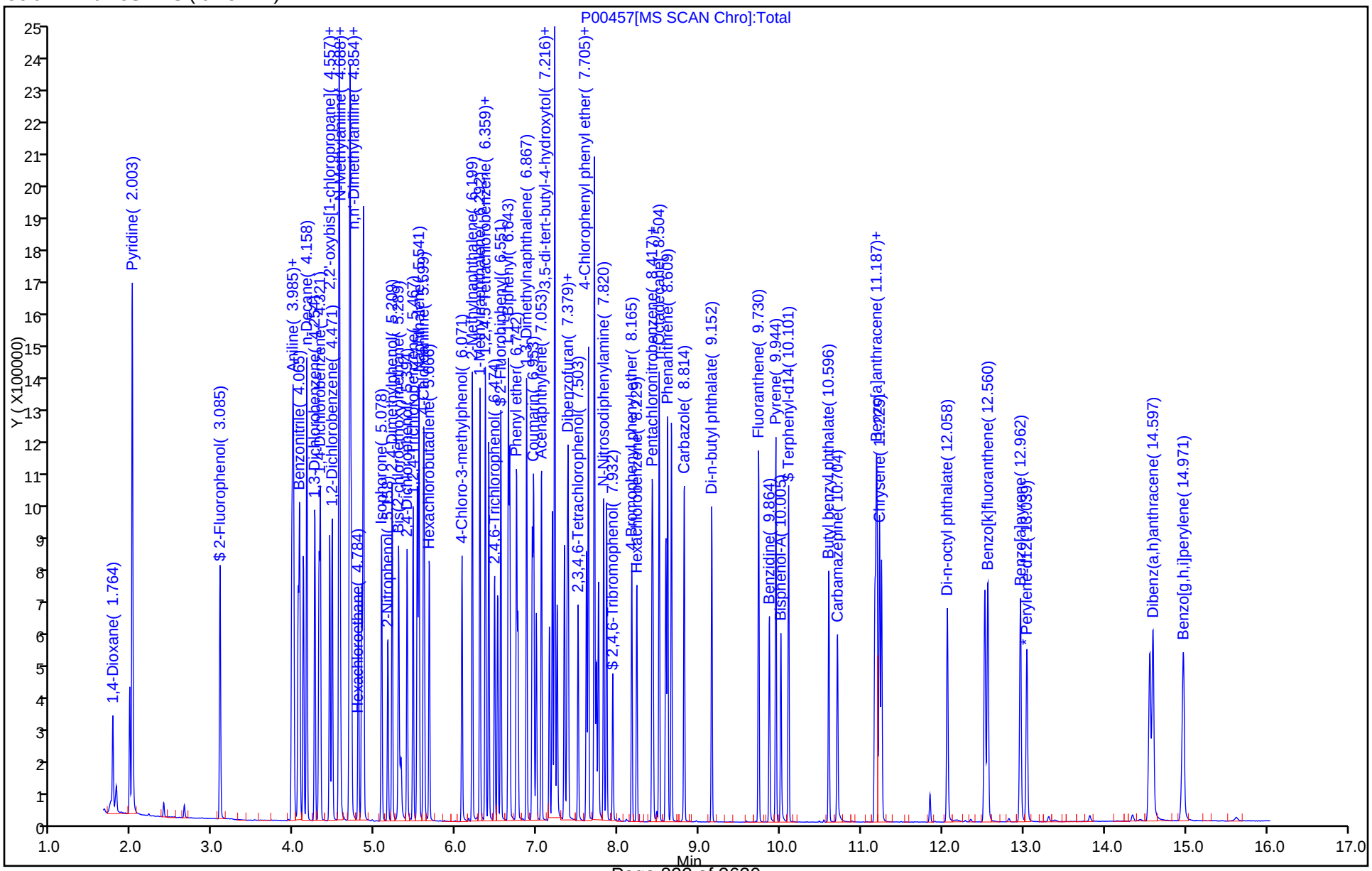
Lims ID: icis Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

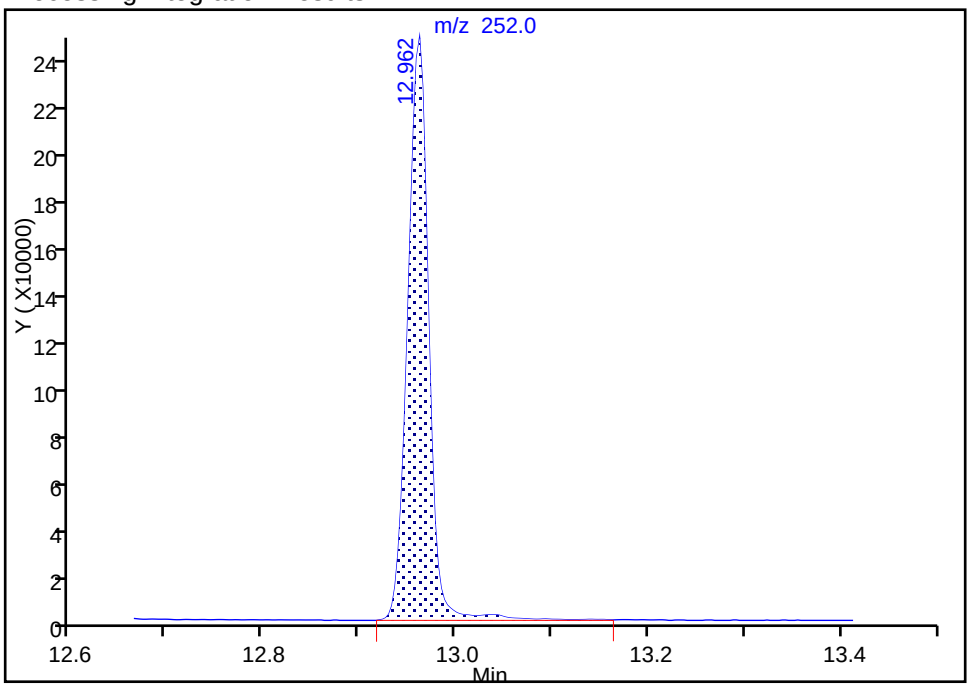
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00457.D				
Injection Date:	27-Feb-2018 15:38:30	Instrument ID:	CBNAMS18		
Lims ID:	icis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

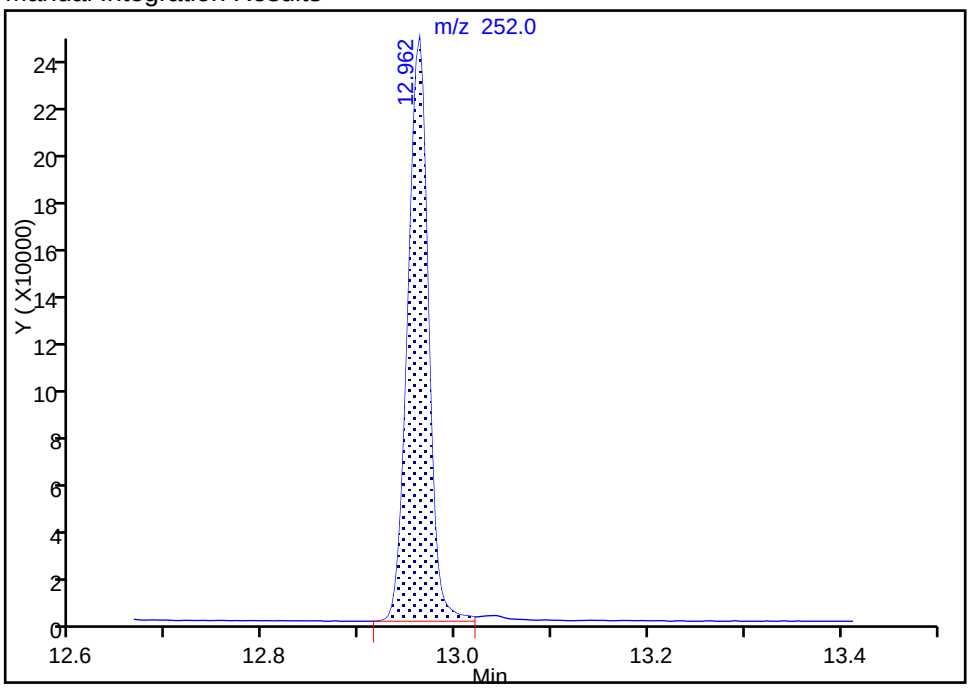
Processing Integration Results

RT: 12.96
Area: 363315
Amount: 10.654178
Amount Units: ug/ml



Manual Integration Results

RT: 12.96
Area: 356296
Amount: 10.604649
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:34:05

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

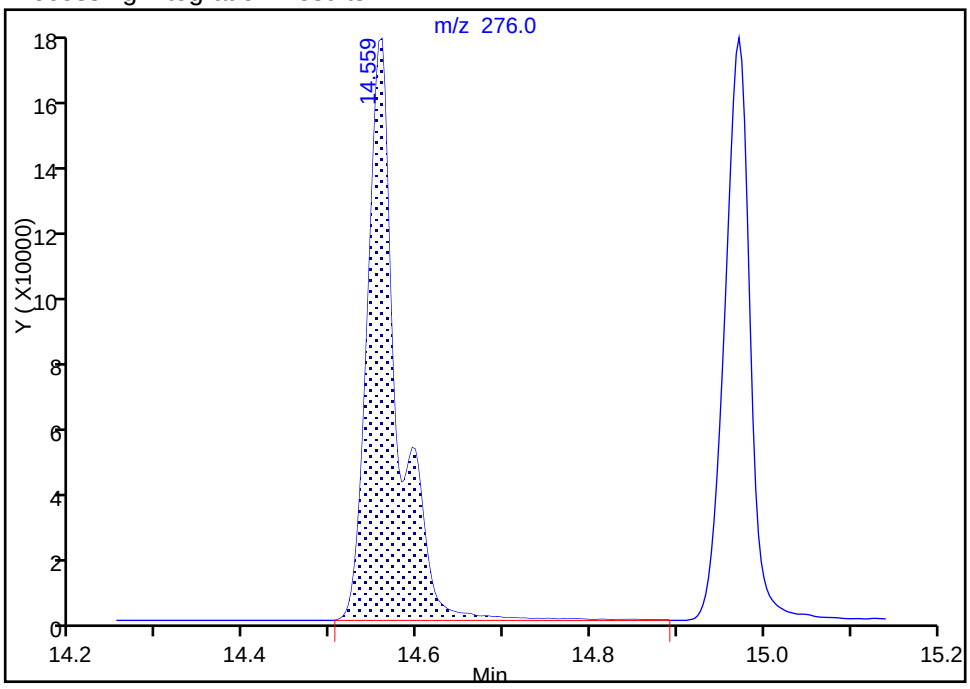
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00457.D				
Injection Date:	27-Feb-2018 15:38:30	Instrument ID:	CBNAMS18		
Lims ID:	icis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

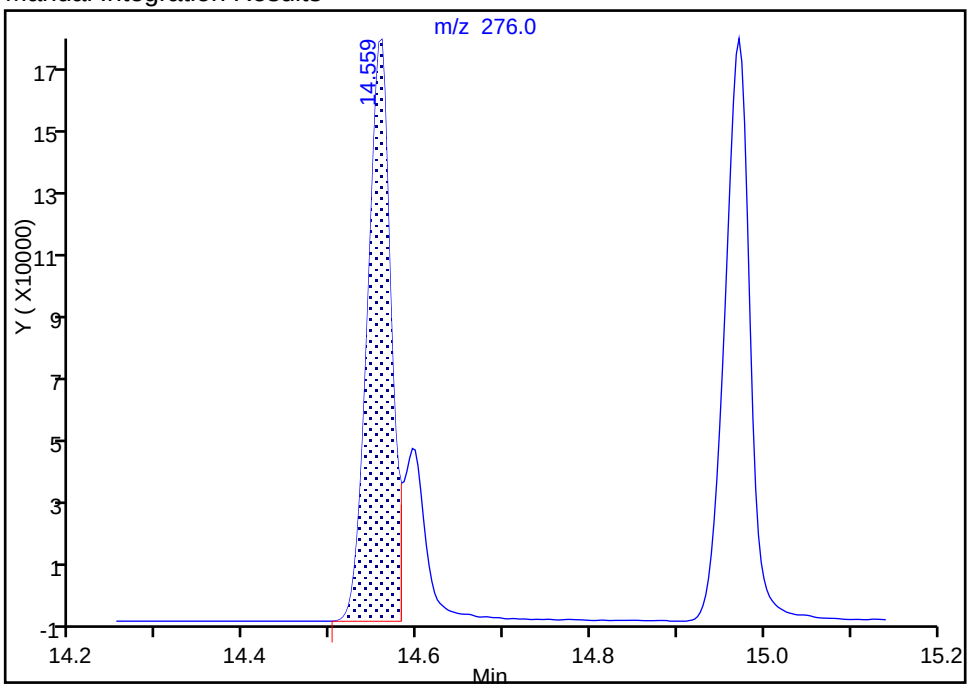
Processing Integration Results

RT: 14.56
Area: 425906
Amount: 10.000000
Amount Units: ug/ml



Manual Integration Results

RT: 14.56
Area: 330489
Amount: 10.794397
Amount Units: ug/ml



Reviewer: johnstonm1, 27-Feb-2018 16:02:13

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00458.D
Lims ID: STD24
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Feb-2018 16:01:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-003
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:39:41 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:27:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.764	1.764	0.000	96	202393	24.0	24.7	
	2 N-Nitrosodimethylamine	74	1.978	1.971	0.007	86	343219	24.0	26.0	
	3 Pyridine	79	2.007	2.003	0.004	83	1159438	48.0	50.9	
$	4 2-Fluorophenol	112	3.088	3.085	0.003	91	529208	24.0	27.3	
$	6 Phenol-d5	99	3.979	3.969	0.010	98	655711	24.0	26.8	
	7 Phenol	94	3.992	3.982	0.010	98	684969	24.0	24.6	
	8 Aniline	93	3.998	3.995	0.003	98	796522	24.0	25.2	
	9 Bis(2-chloroethyl)ether	93	4.055	4.049	0.006	91	498355	24.0	25.3	
	10 Benzonitrile	103	4.075	4.068	0.007	100	970363	NC	NC	
	11 2-Chlorophenol	128	4.119	4.113	0.006	92	499301	24.0	25.3	
	12 n-Decane	43	4.158	4.158	0.000	94	722539	24.0	24.7	
	13 1,3-Dichlorobenzene	146	4.257	4.254	0.003	94	536996	24.0	24.8	
*	14 1,4-Dichlorobenzene-d4	152	4.308	4.308	0.000	97	107473	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.324	4.324	0.000	92	539936	24.0	24.9	
	16 Benzyl alcohol	108	4.445	4.439	0.006	91	318469	24.0	25.9	
	17 1,2-Dichlorobenzene	146	4.471	4.471	0.000	95	508454	24.0	24.8	
	18 2-Methylphenol	108	4.563	4.557	0.006	85	428542	24.0	24.6	
	19 2,2'-oxybis[1-chloropropan	45	4.570	4.567	0.003	93	884710	24.0	24.2	
	20 N-Methylaniline	106	4.688	4.682	0.006	94	729507	24.0	24.9	
	21 Acetophenone	105	4.698	4.691	0.007	92	645006	24.0	24.4	
	22 N-Nitrosodi-n-propylamine	70	4.701	4.691	0.010	92	368120	24.0	24.8	
	24 4-Methylphenol	108	4.714	4.707	0.007	90	460271	24.0	25.1	
	23 3 & 4 Methylphenol	108	4.714	4.707	0.007	62	461127	24.0	24.7	
	25 Hexachloroethane	117	4.794	4.793	0.001	93	205797	24.0	24.8	
$	27 Nitrobenzene-d5	82	4.838	4.835	0.003	91	554026	24.0	26.7	
	28 Nitrobenzene	123	4.861	4.851	0.010	91	218982	24.0	25.0	
	29 n,n'-Dimethylaniline	120	4.861	4.857	0.004	99	725366	24.0	24.8	
	30 Isophorone	82	5.088	5.078	0.010	99	870854	24.0	25.4	
	32 2-Nitrophenol	139	5.161	5.158	0.003	87	237849	24.0	26.3	
	33 2,4-Dimethylphenol	122	5.215	5.209	0.006	90	402473	24.0	25.0	
	34 Bis(2-chloroethoxy)methane	93	5.292	5.289	0.003	94	555806	24.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.356	5.320	0.036	91	233552	24.0	24.0	
36 2,4-Dichlorophenol	162	5.397	5.394	0.003	94	347794	24.0	25.6	
37 1,2,4-Trichlorobenzene	180	5.471	5.467	0.004	94	381633	24.0	24.7	
* 38 Naphthalene-d8	136	5.522	5.519	0.003	99	427577	8.00	8.00	
39 Naphthalene	128	5.545	5.541	0.004	99	1348635	24.0	24.7	
40 4-Chloroaniline	127	5.602	5.595	0.007	95	547815	24.0	25.4	
41 Hexachlorobutadiene	225	5.669	5.669	0.000	93	204280	24.0	25.5	
43 4-Chloro-3-methylphenol	107	6.075	6.071	0.004	98	361793	24.0	25.6	
44 2-Methylnaphthalene	142	6.200	6.199	0.001	84	851271	24.0	24.7	
45 1-Methylnaphthalene	142	6.296	6.292	0.004	93	796708	24.0	24.6	
46 Hexachlorocyclopentadiene	237	6.359	6.359	0.000	96	216180	24.0	27.0	
47 1,2,4,5-Tetrachlorobenzene	216	6.363	6.362	0.001	95	324830	24.0	24.3	
48 2-tertbutyl-4-methylphenol	149	6.404	6.400	0.004	88	507847	24.0	25.6	
49 2,4,6-Trichlorophenol	196	6.475	6.474	0.001	86	214060	24.0	25.7	
50 2,4,5-Trichlorophenol	196	6.513	6.512	0.001	96	230266	24.0	26.3	
$ 51 2-Fluorobiphenyl	172	6.552	6.551	0.001	97	867524	24.0	25.7	
52 1,1'-Biphenyl	154	6.648	6.643	0.005	96	943406	24.0	24.6	
53 2-Chloronaphthalene	162	6.664	6.659	0.005	98	711793	24.0	24.7	
54 Phenyl ether	170	6.744	6.742	0.002	88	461545	24.0	25.3	
55 2-Nitroaniline	65	6.766	6.762	0.004	96	260589	24.0	22.8	
57 1,3-Dimethylnaphthalene	156	6.871	6.867	0.004	89	591108	24.0	25.3	
59 Dimethyl phthalate	163	6.945	6.937	0.008	97	738821	24.0	25.0	
60 Coumarin	146	6.958	6.953	0.005	80	261537	24.0	25.8	
61 2,6-Dinitrotoluene	165	6.996	6.989	0.007	92	168208	24.0	26.5	
62 Acenaphthylene	152	7.054	7.053	0.002	97	1085167	24.0	25.2	
63 3-Nitroaniline	138	7.156	7.148	0.008	92	205995	24.0	25.6	
* 64 Acenaphthene-d10	164	7.188	7.187	0.001	99	168391	8.00	8.00	
66 Acenaphthene	154	7.220	7.216	0.004	97	635509	24.0	24.1	
65 3,5-di-tert-butyl-4-hydrox	205	7.220	7.216	0.004	98	543931	24.0	25.4	
67 2,4-Dinitrophenol	184	7.256	7.248	0.008	89	217265	48.0	47.7	
68 4-Nitrophenol	65	7.345	7.334	0.011	95	337202	48.0	56.8	
69 2,4-Dinitrotoluene	165	7.374	7.369	0.005	92	223675	24.0	26.9	
70 Dibenzofuran	168	7.384	7.382	0.002	95	952584	24.0	24.9	
72 2,3,4,6-Tetrachlorophenol	232	7.505	7.503	0.002	91	178918	24.0	27.5	
73 Diethyl phthalate	149	7.614	7.606	0.008	97	763311	24.0	25.8	
75 Fluorene	166	7.707	7.702	0.005	94	725727	24.0	24.5	
74 4-Chlorophenyl phenyl ethe	204	7.707	7.705	0.002	79	320076	24.0	24.5	
76 4-Nitroaniline	138	7.745	7.730	0.015	92	202688	24.0	26.0	
77 4,6-Dinitro-2-methylphenol	198	7.768	7.756	0.012	85	231991	48.0	57.6	
78 N-Nitrosodiphenylamine	169	7.825	7.820	0.005	98	543186	24.0	25.6	
79 1,2-Diphenylhydrazine	77	7.860	7.855	0.005	99	873971	24.0	25.3	
$ 80 2,4,6-Tribromophenol	330	7.937	7.932	0.005	94	116341	24.0	26.9	
81 4-Bromophenyl phenyl ether	248	8.167	8.165	0.002	84	199407	24.0	25.0	
82 Hexachlorobenzene	284	8.231	8.229	0.002	99	214570	24.0	25.5	
84 Pentachlorophenol	266	8.420	8.417	0.003	94	251697	48.0	51.1	
85 Pentachloronitrobenzene	237	8.433	8.427	0.006	86	97592	24.0	27.4	
86 n-Octadecane	57	8.506	8.504	0.002	91	667903	24.0	25.8	
* 87 Phenanthrene-d10	188	8.590	8.587	0.003	99	293369	8.00	8.00	
88 Phenanthrene	178	8.612	8.609	0.003	99	1042240	24.0	24.7	
89 Anthracene	178	8.660	8.654	0.006	98	1081541	24.0	25.1	
90 Carbazole	167	8.817	8.814	0.003	96	960586	24.0	25.4	
91 Di-n-butyl phthalate	149	9.155	9.152	0.003	99	1157647	24.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.733	9.730	0.003	97	1032984	24.0	25.6	
93 Benzidine	184	9.868	9.864	0.004	100	634620	24.0	23.8	
94 Pyrene	202	9.948	9.944	0.004	96	1036228	24.0	25.1	
95 Bisphenol-A	213	10.012	10.005	0.007	97	446096	24.0	29.1	
$ 96 Terphenyl-d14	244	10.104	10.101	0.003	98	781870	24.0	26.9	
97 Butyl benzyl phthalate	149	10.600	10.596	0.004	97	476840	24.0	27.5	
99 Carbamazepine	193	10.711	10.704	0.007	92	433384	24.0	23.9	
100 3,3'-Dichlorobenzidine	252	11.171	11.164	0.007	99	349978	24.0	21.8	
101 Benzo[a]anthracene	228	11.187	11.180	0.007	99	870196	24.0	25.4	
* 102 Chrysene-d12	240	11.200	11.193	0.007	98	231847	8.00	8.00	
104 Chrysene	228	11.229	11.222	0.007	98	839988	24.0	25.2	
103 Bis(2-ethylhexyl) phthalat	149	11.248	11.247	0.001	88	634329	24.0	29.0	
105 Di-n-octyl phthalate	149	12.063	12.058	0.005	97	1083742	24.0	27.9	
106 Benzo[b]fluoranthene	252	12.532	12.521	0.011	97	904704	24.0	26.2	
107 Benzo[k]fluoranthene	252	12.571	12.560	0.011	98	927376	24.0	25.8	
108 Benzo[a]pyrene	252	12.970	12.962	0.008	95	874430	24.0	26.2	M
* 109 Perylene-d12	264	13.044	13.039	0.005	96	244034	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.574	14.559	0.015	98	888597	24.0	29.3	M
111 Dibenz(a,h)anthracene	278	14.612	14.597	0.015	96	860220	24.0	27.5	
112 Benzo[g,h,i]perylene	276	14.989	14.971	0.018	95	895155	24.0	26.1	
S 119 Total Cresols	1				0			49.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL8_00017 Amount Added: 1.00 Units: mL

Report Date: 28-Feb-2018 11:39:44 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00458.D

Injection Date: 27-Feb-2018 16:01:30 Instrument ID: CBNAMS18 Operator ID:

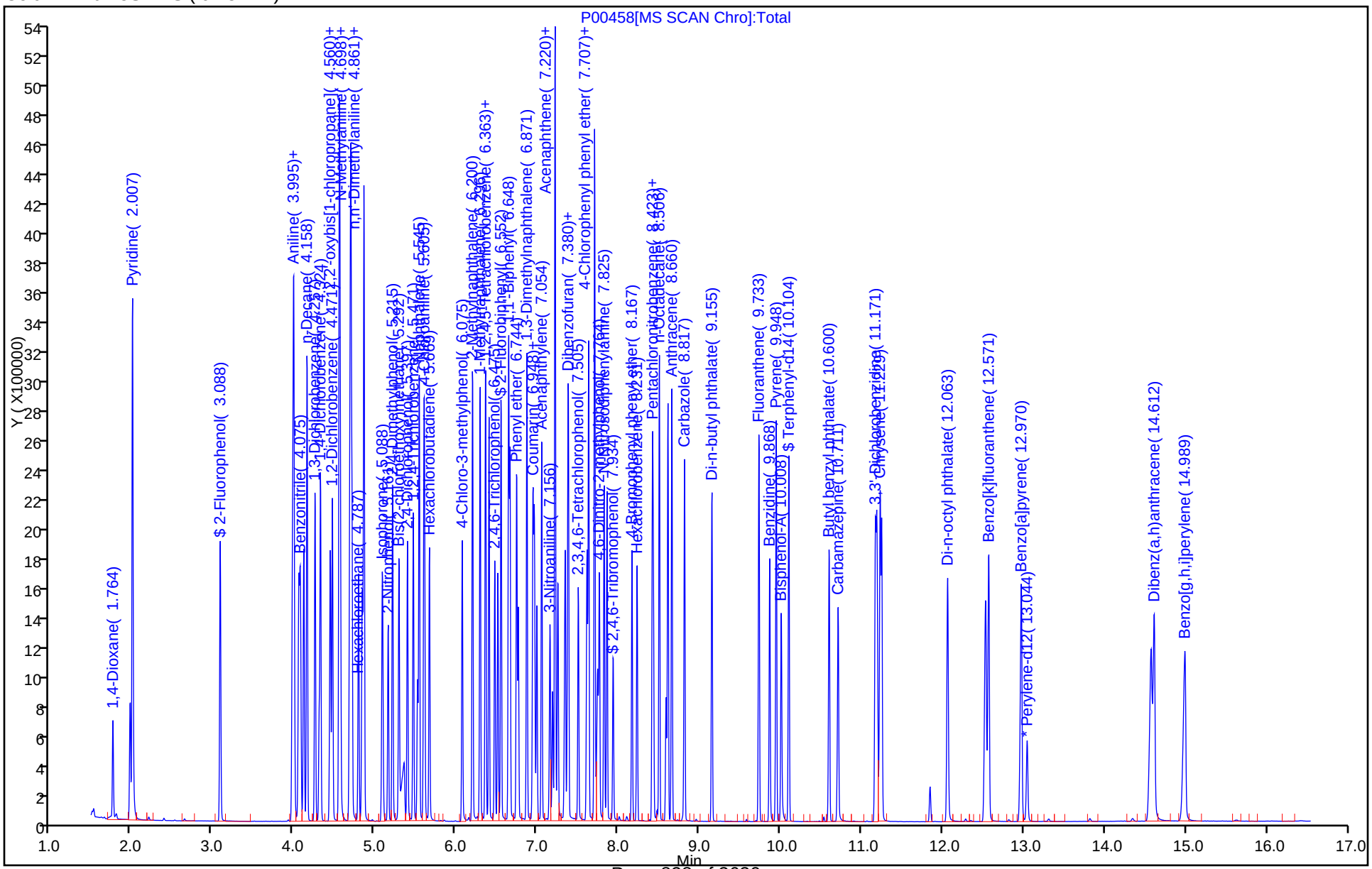
Lims ID: STD24 Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

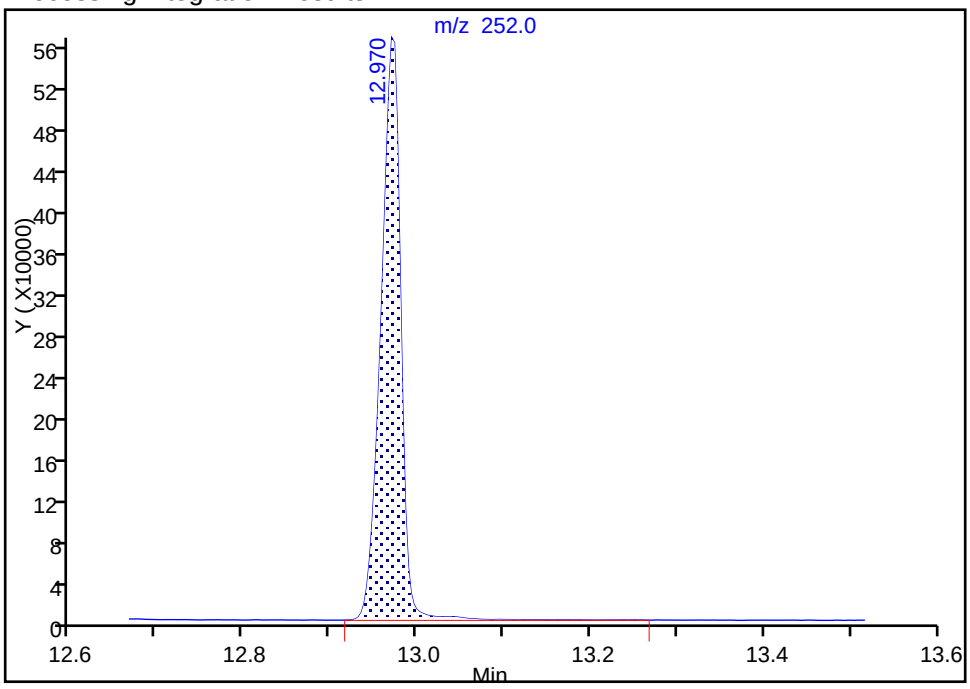
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00458.D
Injection Date: 27-Feb-2018 16:01:30 Instrument ID: CBNAMS18
Lims ID: STD24
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

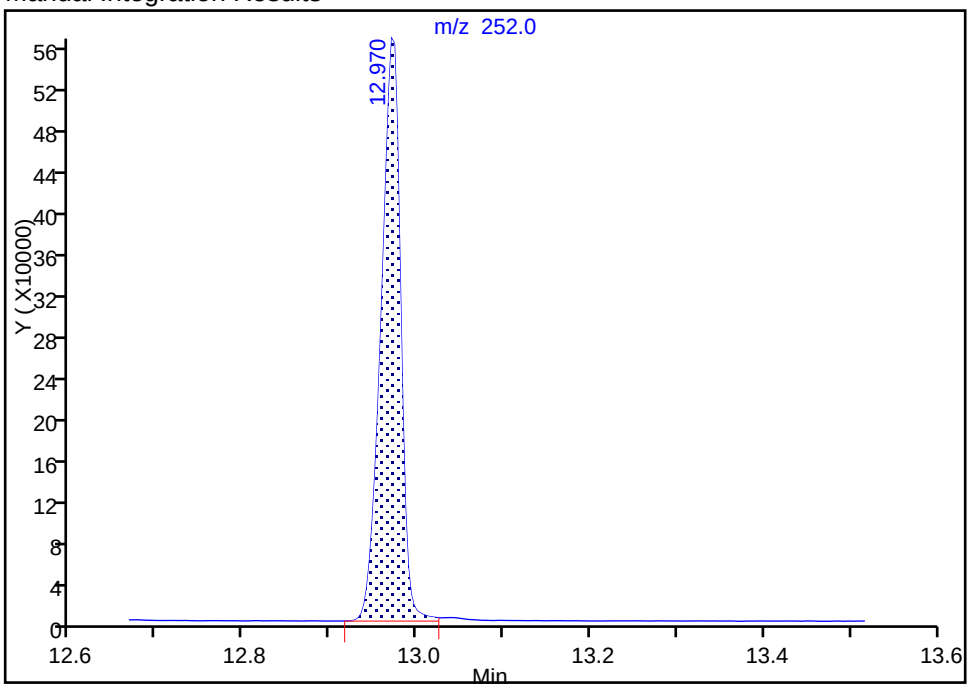
Processing Integration Results

RT: 12.97
Area: 888088
Amount: 26.322981
Amount Units: ug/ml



Manual Integration Results

RT: 12.97
Area: 874430
Amount: 26.238199
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:34:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

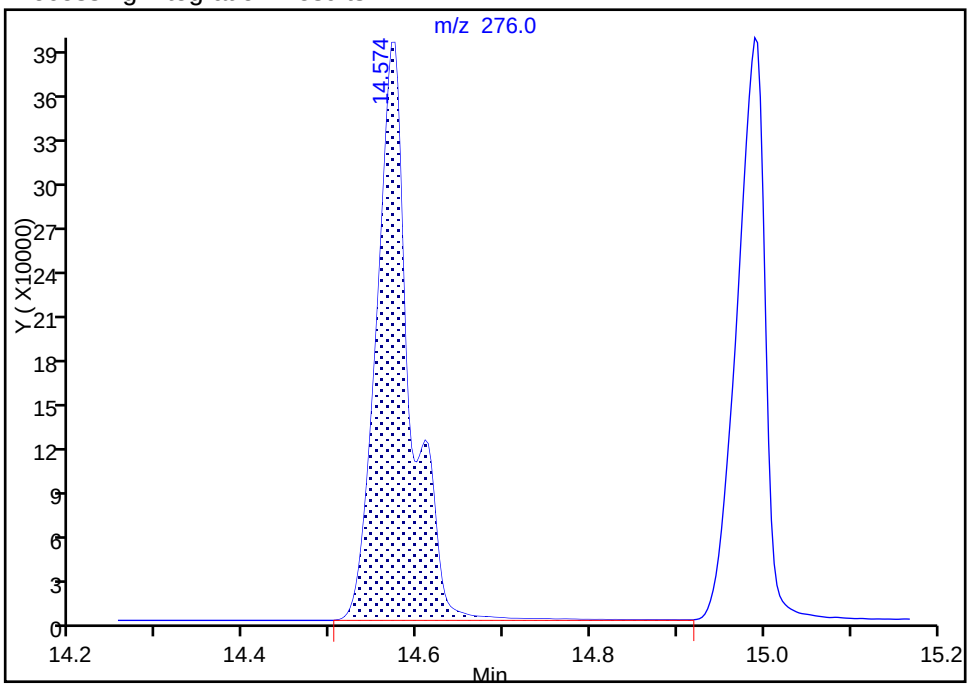
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00458.D
Injection Date: 27-Feb-2018 16:01:30 Instrument ID: CBNAMS18
Lims ID: STD24
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

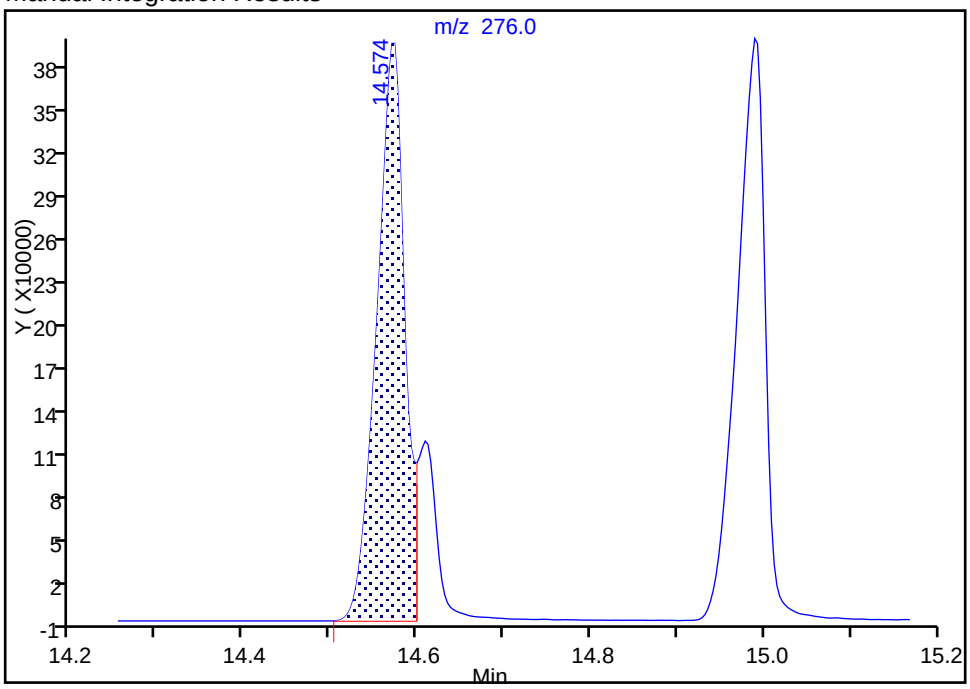
Processing Integration Results

RT: 14.57
Area: 1069690
Amount: 28.270979
Amount Units: ug/ml



Manual Integration Results

RT: 14.57
Area: 888597
Amount: 29.259697
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:26:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 28-Feb-2018 11:39:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00459.D
Lims ID: STD16
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Feb-2018 16:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-004
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:39:49 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:28:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.764	1.764	0.000	97	132152	16.0	16.8	
	2 N-Nitrosodimethylamine	74	1.975	1.971	0.004	85	222888	16.0	17.6	
	3 Pyridine	79	2.004	2.003	0.000	84	772191	32.0	35.2	
$	4 2-Fluorophenol	112	3.089	3.085	0.004	92	340413	16.0	18.2	
$	6 Phenol-d5	99	3.976	3.969	0.007	98	427679	16.0	18.1	
	7 Phenol	94	3.988	3.982	0.006	95	460850	16.0	17.2	
	8 Aniline	93	3.995	3.995	0.000	98	536305	16.0	17.7	
	9 Bis(2-chloroethyl)ether	93	4.052	4.049	0.003	90	329109	16.0	17.4	
	10 Benzonitrile	103	4.072	4.068	0.004	99	623777	NC	NC	
	11 2-Chlorophenol	128	4.116	4.113	0.003	92	331325	16.0	17.4	
	12 n-Decane	43	4.158	4.158	0.000	94	478142	16.0	17.0	
	13 1,3-Dichlorobenzene	146	4.257	4.254	0.003	94	358147	16.0	17.2	
*	14 1,4-Dichlorobenzene-d4	152	4.308	4.308	0.000	98	103362	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.324	4.324	0.000	92	358153	16.0	17.1	
	16 Benzyl alcohol	108	4.442	4.439	0.003	91	208651	16.0	17.6	
	17 1,2-Dichlorobenzene	146	4.471	4.471	0.000	94	339367	16.0	17.2	
	18 2-Methylphenol	108	4.560	4.557	0.003	85	286553	16.0	17.1	
	19 2,2'-oxybis[1-chloropropan	45	4.567	4.567	0.000	93	593214	16.0	16.9	
	20 N-Methylaniline	106	4.685	4.682	0.003	95	467779	16.0	16.6	
	22 N-Nitrosodi-n-propylamine	70	4.695	4.691	0.004	91	245741	16.0	17.2	
	21 Acetophenone	105	4.695	4.691	0.004	93	435076	16.0	17.1	
	23 3 & 4 Methylphenol	108	4.707	4.707	0.000	76	314681	16.0	17.5	
	24 4-Methylphenol	108	4.707	4.707	0.000	96	309737	16.0	17.6	
	25 Hexachloroethane	117	4.794	4.793	0.001	93	136473	16.0	17.1	
$	27 Nitrobenzene-d5	82	4.835	4.835	0.000	91	354550	16.0	17.4	
	28 Nitrobenzene	123	4.854	4.851	0.003	93	146395	16.0	17.4	
	29 n,n'-Dimethylaniline	120	4.858	4.857	0.001	99	468968	16.0	16.7	
	30 Isophorone	82	5.084	5.078	0.006	99	578411	16.0	17.2	
	32 2-Nitrophenol	139	5.158	5.158	0.000	86	158372	16.0	17.9	
	33 2,4-Dimethylphenol	122	5.212	5.209	0.003	90	271869	16.0	17.2	
	34 Bis(2-chloroethoxy)methane	93	5.292	5.289	0.003	94	368889	16.0	17.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.337	5.320	0.017	91	142422	16.0	16.1	
36 2,4-Dichlorophenol	162	5.394	5.394	0.000	94	230814	16.0	17.3	
37 1,2,4-Trichlorobenzene	180	5.468	5.467	0.001	95	253537	16.0	16.7	
* 38 Naphthalene-d8	136	5.522	5.519	0.003	99	418771	8.00	8.00	
39 Naphthalene	128	5.541	5.541	0.000	99	906763	16.0	17.0	
40 4-Chloroaniline	127	5.599	5.595	0.004	97	361984	16.0	17.1	
41 Hexachlorobutadiene	225	5.669	5.669	0.000	93	135219	16.0	17.2	
43 4-Chloro-3-methylphenol	107	6.072	6.071	0.001	98	238871	16.0	17.3	
44 2-Methylnaphthalene	142	6.199	6.199	0.000	86	573772	16.0	17.0	
45 1-Methylnaphthalene	142	6.292	6.292	0.000	92	535030	16.0	16.9	
46 Hexachlorocyclopentadiene	237	6.359	6.359	0.000	96	143351	16.0	18.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.362	6.362	0.000	96	220400	16.0	17.0	
48 2-tertbutyl-4-methylphenol	149	6.401	6.400	0.001	88	328351	16.0	16.9	
49 2,4,6-Trichlorophenol	196	6.474	6.474	0.000	86	142539	16.0	17.6	
50 2,4,5-Trichlorophenol	196	6.513	6.512	0.001	94	154279	16.0	18.1	
$ 51 2-Fluorobiphenyl	172	6.551	6.551	0.000	97	564785	16.0	17.2	
52 1,1'-Biphenyl	154	6.644	6.643	0.001	97	633953	16.0	17.0	
53 2-Chloronaphthalene	162	6.660	6.659	0.001	99	477388	16.0	17.0	
54 Phenyl ether	170	6.743	6.742	0.001	88	298026	16.0	16.8	
55 2-Nitroaniline	65	6.762	6.762	0.000	95	199370	16.0	17.9	
57 1,3-Dimethylnaphthalene	156	6.871	6.867	0.004	89	379762	16.0	16.7	
59 Dimethyl phthalate	163	6.941	6.937	0.004	97	491584	16.0	17.1	
60 Coumarin	146	6.954	6.953	0.001	78	167483	16.0	16.9	
61 2,6-Dinitrotoluene	165	6.993	6.989	0.004	91	110696	16.0	17.9	
62 Acenaphthylene	152	7.053	7.053	0.001	97	716712	16.0	17.1	
63 3-Nitroaniline	138	7.152	7.148	0.004	93	139629	16.0	17.9	
* 64 Acenaphthene-d10	164	7.188	7.187	0.001	99	163839	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.216	7.216	0.000	98	347534	16.0	16.7	
66 Acenaphthene	154	7.216	7.216	0.000	97	426364	16.0	16.6	
67 2,4-Dinitrophenol	184	7.248	7.248	0.000	89	140279	32.0	33.2	
68 4-Nitrophenol	65	7.338	7.334	0.004	94	212555	32.0	36.8	
69 2,4-Dinitrotoluene	165	7.370	7.369	0.001	92	145971	16.0	18.0	
70 Dibenzofuran	168	7.383	7.382	0.001	95	628420	16.0	16.9	
72 2,3,4,6-Tetrachlorophenol	232	7.504	7.503	0.001	90	116345	16.0	18.4	
73 Diethyl phthalate	149	7.610	7.606	0.004	97	496904	16.0	17.3	
75 Fluorene	166	7.706	7.702	0.004	94	485785	16.0	16.9	
74 4-Chlorophenyl phenyl ethe	204	7.706	7.705	0.001	80	211290	16.0	16.6	
76 4-Nitroaniline	138	7.735	7.730	0.005	94	134939	16.0	17.8	
77 4,6-Dinitro-2-methylphenol	198	7.760	7.756	0.004	80	152029	32.0	38.5	
78 N-Nitrosodiphenylamine	169	7.821	7.820	0.001	99	351062	16.0	16.9	
79 1,2-Diphenylhydrazine	77	7.856	7.855	0.001	99	568430	16.0	16.8	
$ 80 2,4,6-Tribromophenol	330	7.933	7.932	0.001	94	74108	16.0	17.7	
81 4-Bromophenyl phenyl ether	248	8.166	8.165	0.001	83	131056	16.0	16.8	
82 Hexachlorobenzene	284	8.227	8.229	-0.002	99	139958	16.0	17.0	
84 Pentachlorophenol	266	8.419	8.417	0.002	92	162830	32.0	34.1	
85 Pentachloronitrobenzene	237	8.428	8.427	0.001	87	61263	16.0	17.6	
86 n-Octadecane	57	8.505	8.504	0.001	91	439514	16.0	17.3	
* 87 Phenanthrene-d10	188	8.585	8.587	-0.002	99	287569	8.00	8.00	
88 Phenanthrene	178	8.611	8.609	0.002	98	699375	16.0	16.9	
89 Anthracene	178	8.656	8.654	0.002	98	714935	16.0	16.9	
90 Carbazole	167	8.812	8.814	-0.002	96	641012	16.0	17.3	
91 Di-n-butyl phthalate	149	9.154	9.152	0.002	99	757206	16.0	17.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.732	9.730	0.002	97	690812	16.0	17.4	
93 Benzidine	184	9.863	9.864	-0.001	99	406801	16.0	16.6	
94 Pyrene	202	9.946	9.944	0.002	96	691052	16.0	17.0	
95 Bisphenol-A	213	10.007	10.005	0.002	97	289391	16.0	19.3	
$ 96 Terphenyl-d14	244	10.099	10.101	-0.002	98	497943	16.0	17.5	
97 Butyl benzyl phthalate	149	10.598	10.596	0.002	97	309792	16.0	18.2	
99 Carbamazepine	193	10.706	10.704	0.002	92	267955	16.0	16.4	
100 3,3'-Dichlorobenzidine	252	11.166	11.164	0.002	99	226676	16.0	16.1	
101 Benzo[a]anthracene	228	11.182	11.180	0.002	99	579208	16.0	17.2	
* 102 Chrysene-d12	240	11.195	11.193	0.002	98	227353	8.00	8.00	
104 Chrysene	228	11.227	11.222	0.005	98	547411	16.0	16.8	
103 Bis(2-ethylhexyl) phthalat	149	11.250	11.247	0.003	88	413976	16.0	19.3	
105 Di-n-octyl phthalate	149	12.061	12.058	0.003	97	697474	16.0	18.6	
106 Benzo[b]fluoranthene	252	12.524	12.521	0.003	98	586313	16.0	17.6	
107 Benzo[k]fluoranthene	252	12.562	12.560	0.002	98	636894	16.0	18.3	
108 Benzo[a]pyrene	252	12.964	12.962	0.002	95	583334	16.0	18.1	M
* 109 Perylene-d12	264	13.041	13.039	0.002	97	236046	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.561	14.559	0.002	98	553703	16.0	18.8	M
111 Dibenz(a,h)anthracene	278	14.600	14.597	0.003	96	569386	16.0	18.8	
112 Benzo[g,h,i]perylene	276	14.977	14.971	0.006	95	581300	16.0	17.5	
S 119 Total Cresols	1				0			34.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL7_00017 Amount Added: 1.00 Units: mL

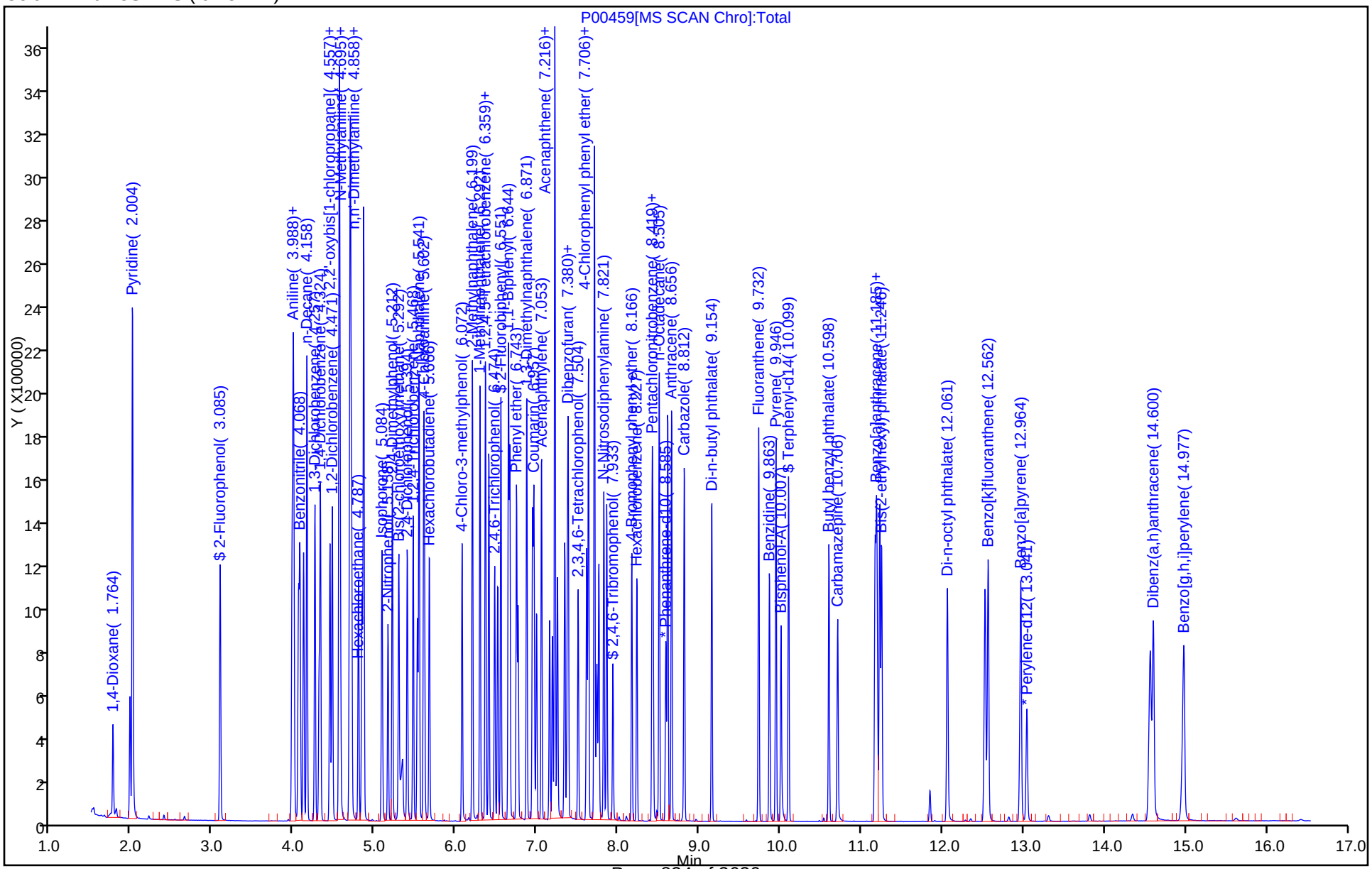
Report Date: 28-Feb-2018 11:39:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00459.D

Injection Date:	27-Feb-2018 16:25:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD16			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

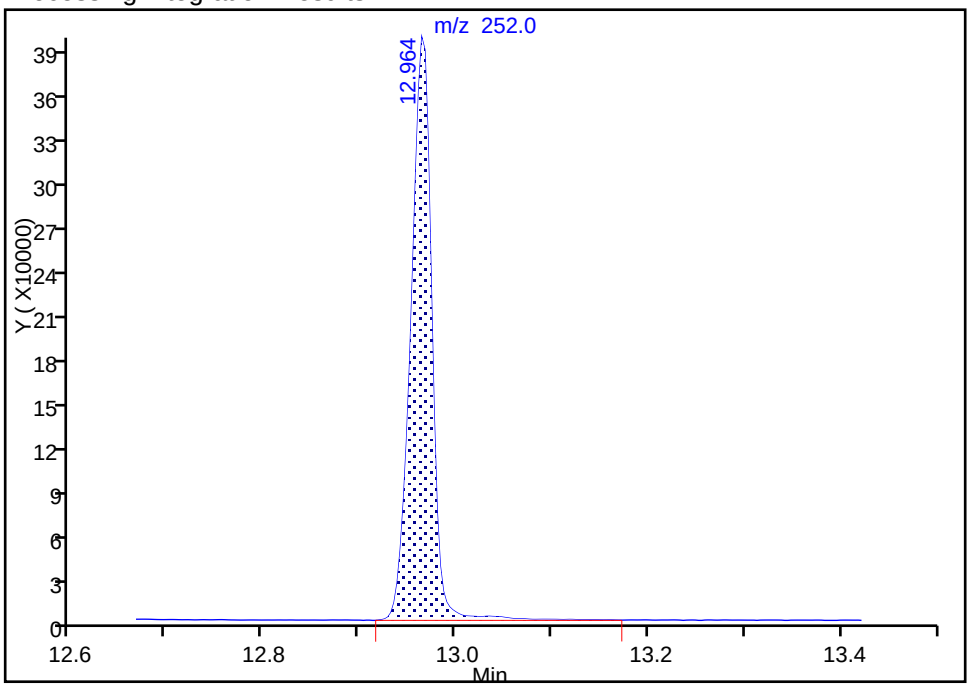
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00459.D
Injection Date: 27-Feb-2018 16:25:30 Instrument ID: CBNAMS18
Lims ID: STD16
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

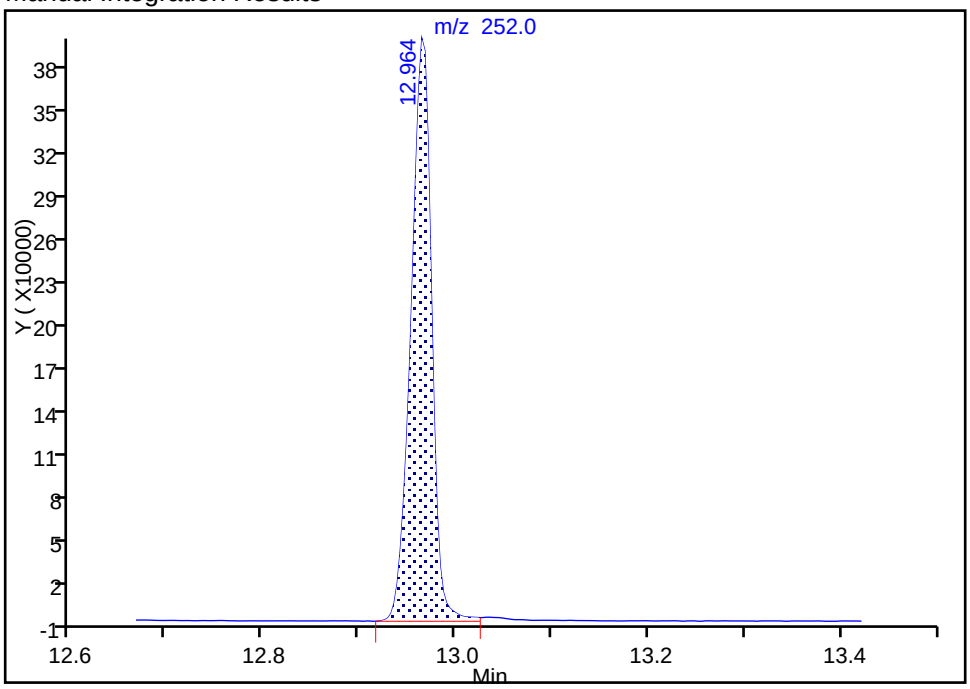
Processing Integration Results

RT: 12.96
Area: 591431
Amount: 18.161575
Amount Units: ug/ml



Manual Integration Results

RT: 12.96
Area: 583334
Amount: 18.095890
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:35:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

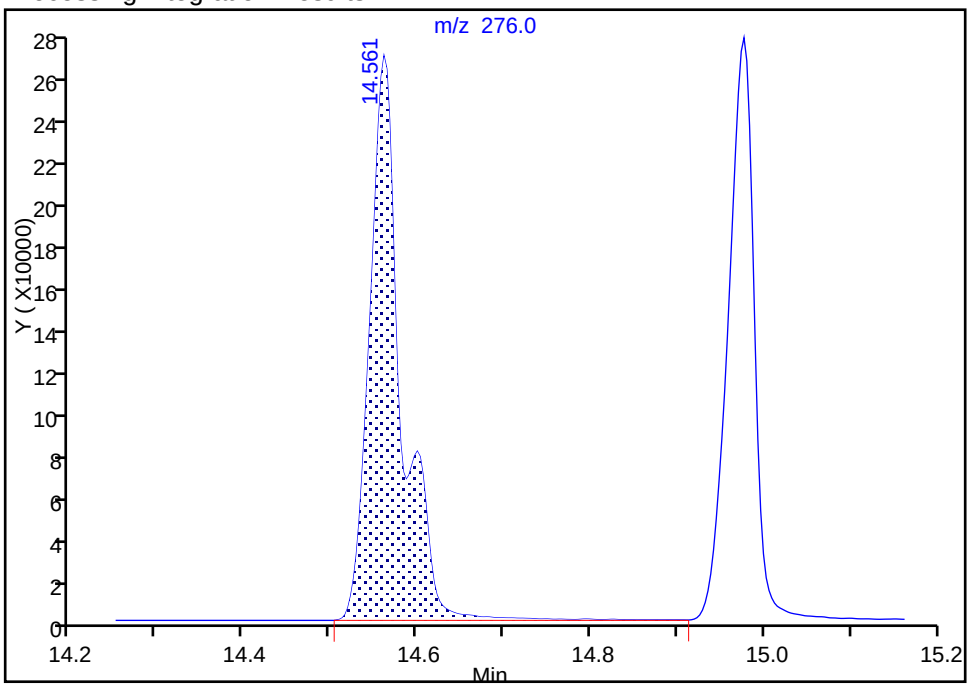
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00459.D				
Injection Date:	27-Feb-2018 16:25:30	Instrument ID:	CBNAMS18		
Lims ID:	STD16				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

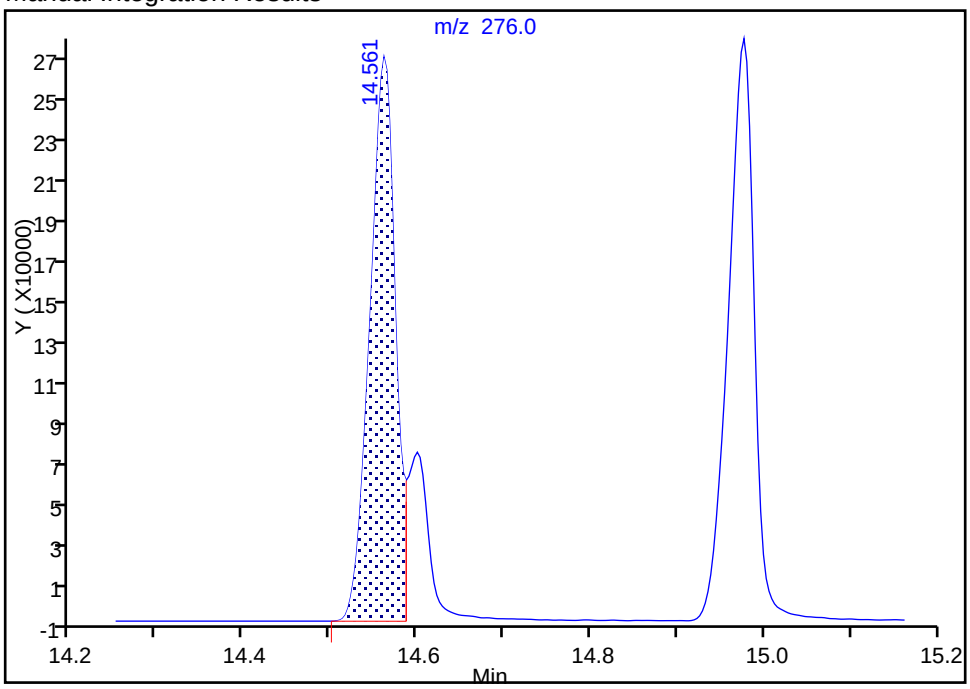
Processing Integration Results

RT: 14.56
Area: 689241
Amount: 19.313942
Amount Units: ug/ml



Manual Integration Results

RT: 14.56
Area: 553703
Amount: 18.849314
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:28:07

Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 28-Feb-2018 11:48:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Feb-2018 16:49:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-005
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:48:33 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:31:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.767	1.764	0.003	94	33965	4.00	3.66	
2 N-Nitrosodimethylamine	74	1.975	1.971	0.004	85	54226	4.00	3.63	
3 Pyridine	79	2.007	2.003	0.004	84	191481	8.00	7.42	
$ 4 2-Fluorophenol	112	3.088	3.085	0.003	91	82226	4.00	3.74	
$ 6 Phenol-d5	99	3.966	3.969	-0.003	98	102336	4.00	3.69	
7 Phenol	94	3.979	3.982	-0.003	97	118227	4.00	3.75	
8 Aniline	93	3.992	3.995	-0.003	96	131273	4.00	3.67	
9 Bis(2-chloroethyl)ether	93	4.046	4.049	-0.003	93	85630	4.00	3.84	
10 Benzonitrile	103	4.065	4.068	-0.003	100	159560	NC	NC	
11 2-Chlorophenol	128	4.113	4.113	0.000	93	84117	4.00	3.76	
12 n-Decane	43	4.155	4.158	-0.003	94	122667	4.00	3.70	
13 1,3-Dichlorobenzene	146	4.254	4.254	0.000	93	90247	4.00	3.68	
* 14 1,4-Dichlorobenzene-d4	152	4.308	4.304	0.004	98	121760	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.324	4.324	0.000	93	92608	4.00	3.76	
16 Benzyl alcohol	108	4.436	4.439	-0.003	91	49104	4.00	3.52	
17 1,2-Dichlorobenzene	146	4.471	4.471	0.000	94	85355	4.00	3.67	
18 2-Methylphenol	108	4.554	4.557	-0.003	81	72848	4.00	3.69	
19 2,2'-oxybis[1-chloropropan	45	4.567	4.567	-0.001	94	152942	4.00	3.69	
20 N-Methylaniline	106	4.682	4.682	0.000	93	122601	4.00	3.73	
21 Acetophenone	105	4.688	4.691	-0.003	89	113638	4.00	3.80	
22 N-Nitrosodi-n-propylamine	70	4.688	4.691	-0.003	92	63430	4.00	3.77	
24 4-Methylphenol	108	4.704	4.707	-0.003	94	78014	4.00	3.76	
23 3 & 4 Methylphenol	108	4.704	4.707	-0.003	74	78718	4.00	3.73	
25 Hexachloroethane	117	4.793	4.793	0.000	92	34723	4.00	3.69	
$ 27 Nitrobenzene-d5	82	4.832	4.835	-0.003	90	86905	4.00	3.69	
28 Nitrobenzene	123	4.851	4.851	0.000	90	37445	4.00	3.77	
29 n,n'-Dimethylaniline	120	4.854	4.857	-0.003	93	122182	4.00	3.72	
30 Isophorone	82	5.074	5.078	-0.004	99	146383	4.00	3.76	
32 2-Nitrophenol	139	5.154	5.158	-0.004	93	38276	4.00	3.73	
33 2,4-Dimethylphenol	122	5.208	5.209	-0.001	90	69403	4.00	3.80	
34 Bis(2-chloroethoxy)methane	93	5.288	5.289	-0.001	97	93978	4.00	3.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.291	5.320	-0.029	93	28396	4.00	3.79	
36 2,4-Dichlorophenol	162	5.390	5.394	-0.004	93	57360	4.00	3.72	
37 1,2,4-Trichlorobenzene	180	5.467	5.467	0.000	95	63728	4.00	3.64	
* 38 Naphthalene-d8	136	5.518	5.516	0.002	99	484800	8.00	8.00	
39 Naphthalene	128	5.537	5.541	-0.004	99	229521	4.00	3.71	
40 4-Chloroaniline	127	5.592	5.595	-0.003	96	91294	4.00	3.73	
41 Hexachlorobutadiene	225	5.665	5.669	-0.004	93	34388	4.00	3.78	
43 4-Chloro-3-methylphenol	107	6.067	6.071	-0.004	98	59273	4.00	3.70	
44 2-Methylnaphthalene	142	6.198	6.199	-0.001	84	142897	4.00	3.65	
45 1-Methylnaphthalene	142	6.291	6.292	-0.001	93	134570	4.00	3.66	
46 Hexachlorocyclopentadiene	237	6.355	6.359	-0.004	96	32467	4.00	3.62	
47 1,2,4,5-Tetrachlorobenzene	216	6.358	6.362	-0.004	95	54921	4.00	3.68	
48 2-tertbutyl-4-methylphenol	149	6.400	6.400	0.000	88	85501	4.00	3.80	
49 2,4,6-Trichlorophenol	196	6.470	6.474	-0.004	87	35191	4.00	3.77	
50 2,4,5-Trichlorophenol	196	6.508	6.512	-0.004	94	36341	4.00	3.71	
$ 51 2-Fluorobiphenyl	172	6.547	6.551	-0.004	97	138073	4.00	3.66	
52 1,1'-Biphenyl	154	6.639	6.643	-0.004	96	163504	4.00	3.81	
53 2-Chloronaphthalene	162	6.655	6.659	-0.004	97	121216	4.00	3.76	
54 Phenyl ether	170	6.741	6.742	-0.001	89	76845	4.00	3.77	
55 2-Nitroaniline	65	6.757	6.762	-0.005	95	48745	4.00	3.81	
57 1,3-Dimethylnaphthalene	156	6.866	6.867	-0.001	89	97854	4.00	3.75	
59 Dimethyl phthalate	163	6.933	6.937	-0.004	98	125041	4.00	3.78	
60 Coumarin	146	6.949	6.953	-0.004	77	42419	4.00	3.69	
61 2,6-Dinitrotoluene	165	6.984	6.989	-0.005	91	27773	4.00	3.92	
62 Acenaphthylene	152	7.048	7.053	-0.004	97	180671	4.00	3.75	
63 3-Nitroaniline	138	7.144	7.148	-0.004	92	33168	4.00	3.69	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	188258	8.00	8.00	
66 Acenaphthene	154	7.214	7.216	-0.002	97	111491	4.00	3.79	
65 3,5-di-tert-butyl-4-hydrox	205	7.211	7.216	-0.005	98	89364	4.00	3.73	
67 2,4-Dinitrophenol	184	7.240	7.248	-0.008	63	28822	8.00	7.59	a
68 4-Nitrophenol	65	7.329	7.334	-0.005	95	49584	8.00	7.48	M
69 2,4-Dinitrotoluene	165	7.365	7.369	-0.004	91	35394	4.00	3.80	
70 Dibenzofuran	168	7.377	7.382	-0.005	95	160711	4.00	3.75	
72 2,3,4,6-Tetrachlorophenol	232	7.502	7.503	-0.001	91	27307	4.00	3.76	
73 Diethyl phthalate	149	7.601	7.606	-0.005	97	122478	4.00	3.71	
75 Fluorene	166	7.700	7.702	-0.002	95	126297	4.00	3.81	
74 4-Chlorophenyl phenyl ethe	204	7.703	7.705	-0.002	83	55997	4.00	3.83	
76 4-Nitroaniline	138	7.722	7.730	-0.008	96	32047	4.00	3.68	
77 4,6-Dinitro-2-methylphenol	198	7.751	7.756	-0.005	73	32933	8.00	7.31	
78 N-Nitrosodiphenylamine	169	7.815	7.820	-0.005	98	87738	4.00	3.69	
79 1,2-Diphenylhydrazine	77	7.850	7.855	-0.005	99	144671	4.00	3.75	
$ 80 2,4,6-Tribromophenol	330	7.930	7.932	-0.002	93	16685	4.00	3.59	
81 4-Bromophenyl phenyl ether	248	8.163	8.165	-0.002	91	33896	4.00	3.80	
82 Hexachlorobenzene	284	8.224	8.229	-0.005	99	35557	4.00	3.78	
84 Pentachlorophenol	266	8.412	8.417	-0.005	92	34934	8.00	7.26	
85 Pentachloronitrobenzene	237	8.425	8.427	-0.002	87	14071	4.00	3.53	
86 n-Octadecane	57	8.502	8.504	-0.002	91	108381	4.00	3.74	
* 87 Phenanthrene-d10	188	8.585	8.583	0.002	99	328453	8.00	8.00	
88 Phenanthrene	178	8.604	8.609	-0.005	99	175871	4.00	3.72	
89 Anthracene	178	8.652	8.654	-0.002	97	176845	4.00	3.67	
90 Carbazole	167	8.809	8.814	-0.005	96	159247	4.00	3.76	
91 Di-n-butyl phthalate	149	9.150	9.152	-0.002	99	183115	4.00	3.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.728	9.730	-0.002	97	170083	4.00	3.76	
93 Benzidine	184	9.862	9.864	-0.002	99	83258	4.00	3.80	
94 Pyrene	202	9.942	9.944	-0.002	96	176180	4.00	3.89	
95 Bisphenol-A	213	10.002	10.005	-0.003	97	63863	4.00	3.81	
$ 96 Terphenyl-d14	244	10.098	10.101	-0.003	98	121819	4.00	3.84	
97 Butyl benzyl phthalate	149	10.593	10.596	-0.003	97	71213	4.00	3.75	
99 Carbamazepine	193	10.698	10.704	-0.006	91	54139	4.00	3.88	
100 3,3'-Dichlorobenzidine	252	11.161	11.164	-0.003	99	51767	4.00	4.32	
101 Benzo[a]anthracene	228	11.177	11.180	-0.003	99	142929	4.00	3.81	
* 102 Chrysene-d12	240	11.190	11.186	0.004	98	253784	8.00	8.00	
104 Chrysene	228	11.219	11.222	-0.003	98	139594	4.00	3.83	
103 Bis(2-ethylhexyl) phthalat	149	11.248	11.247	0.001	88	94904	4.00	3.97	
105 Di-n-octyl phthalate	149	12.055	12.058	-0.003	97	149785	4.00	3.63	
106 Benzo[b]fluoranthene	252	12.515	12.521	-0.006	97	137874	4.00	3.76	
107 Benzo[k]fluoranthene	252	12.550	12.560	-0.010	99	148255	4.00	3.88	
108 Benzo[a]pyrene	252	12.956	12.962	-0.006	95	135678	4.00	3.83	M
* 109 Perylene-d12	264	13.039	13.037	0.002	97	259341	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.546	14.559	-0.013	97	122653	4.00	3.80	M
111 Dibenz(a,h)anthracene	278	14.588	14.597	-0.009	96	129142	4.00	3.89	
112 Benzo[g,h,i]perylene	276	14.958	14.971	-0.013	94	132616	4.00	3.64	
S 119 Total Cresols	1				0			7.42	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SM_BNAL5_00025 Amount Added: 1.00 Units: mL

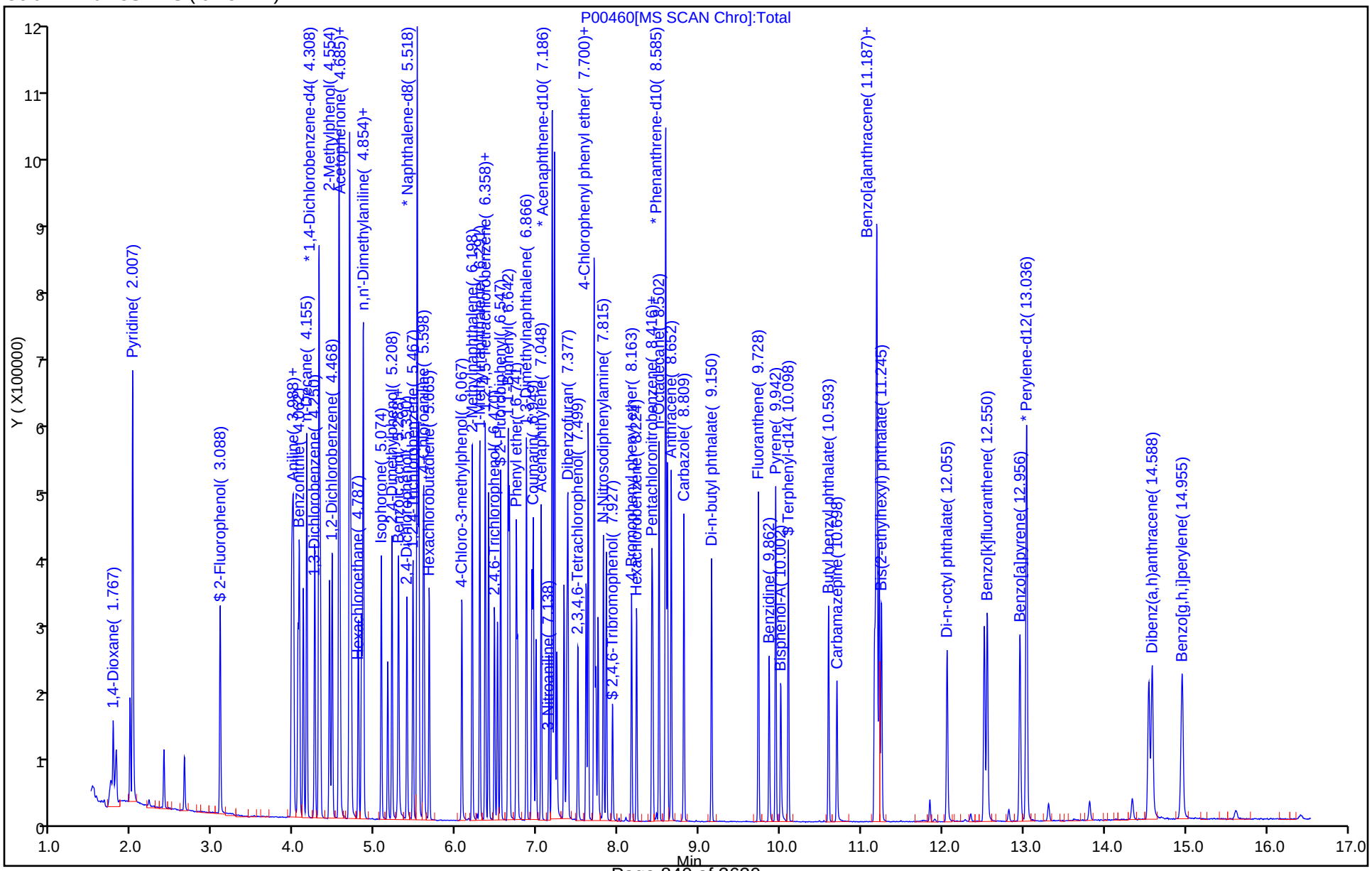
Report Date: 28-Feb-2018 11:48:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D

Injection Date:	27-Feb-2018 16:49:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

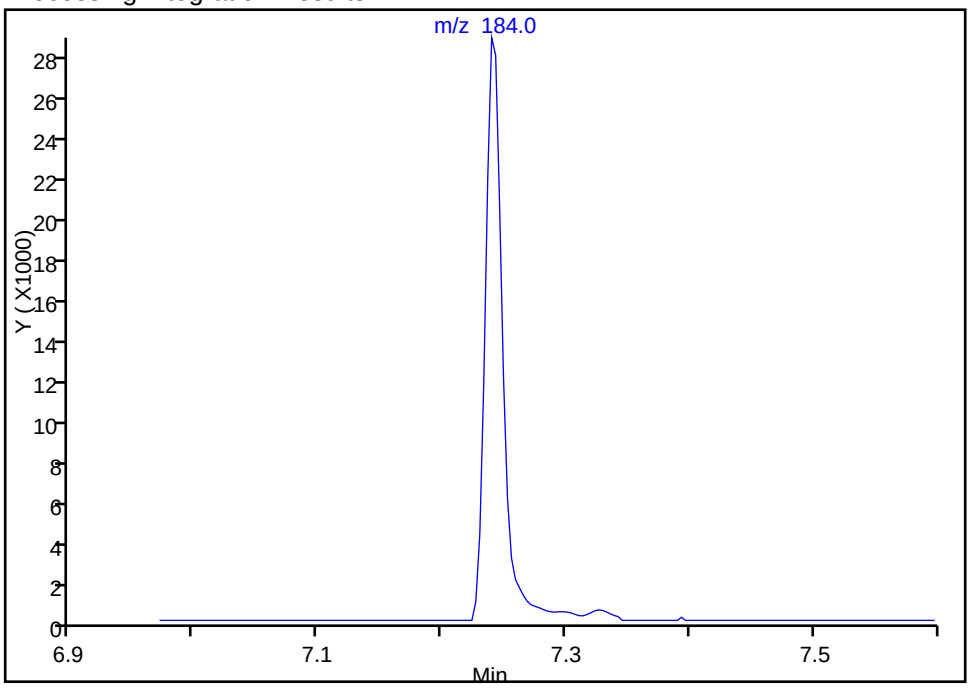
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D				
Injection Date:	27-Feb-2018 16:49:30	Instrument ID:	CBNAMS18		
Lims ID:	STD4				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

67 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

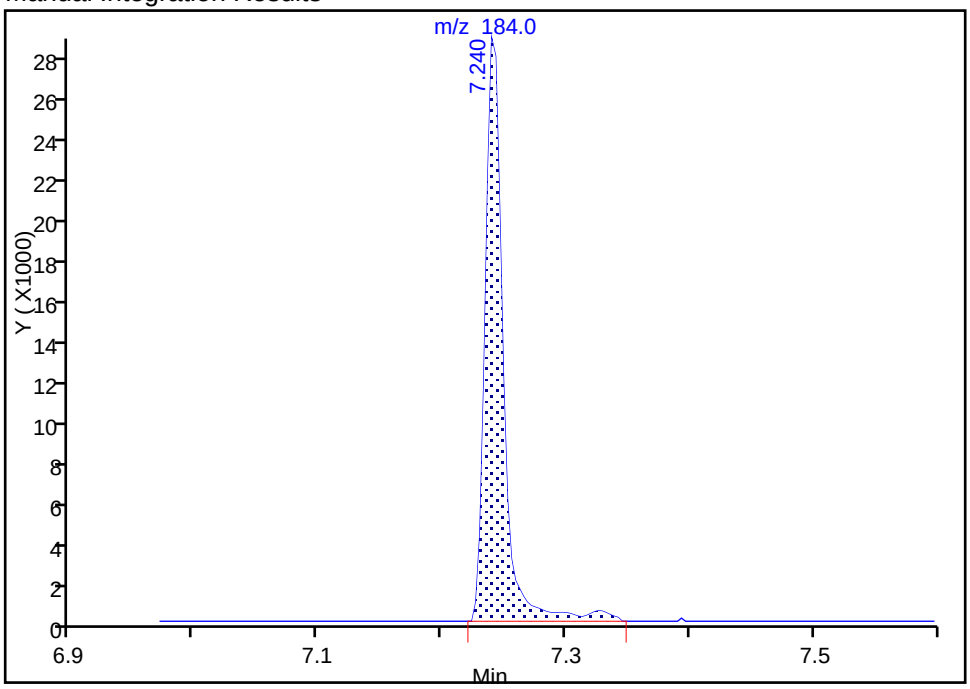
Processing Integration Results

Not Detected
Expected RT: 7.25



Manual Integration Results

RT: 7.24
Area: 28822
Amount: 7.586037
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:30:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

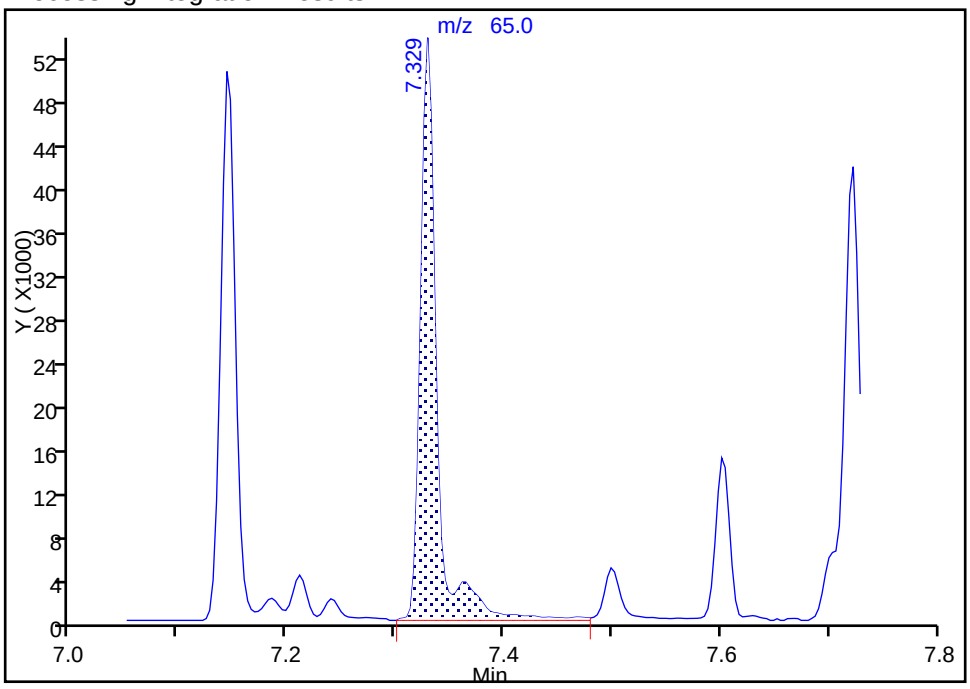
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D
Injection Date: 27-Feb-2018 16:49:30 Instrument ID: CBNAMS18
Lims ID: STD4
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

68 4-Nitrophenol, CAS: 100-02-7

Signal: 1

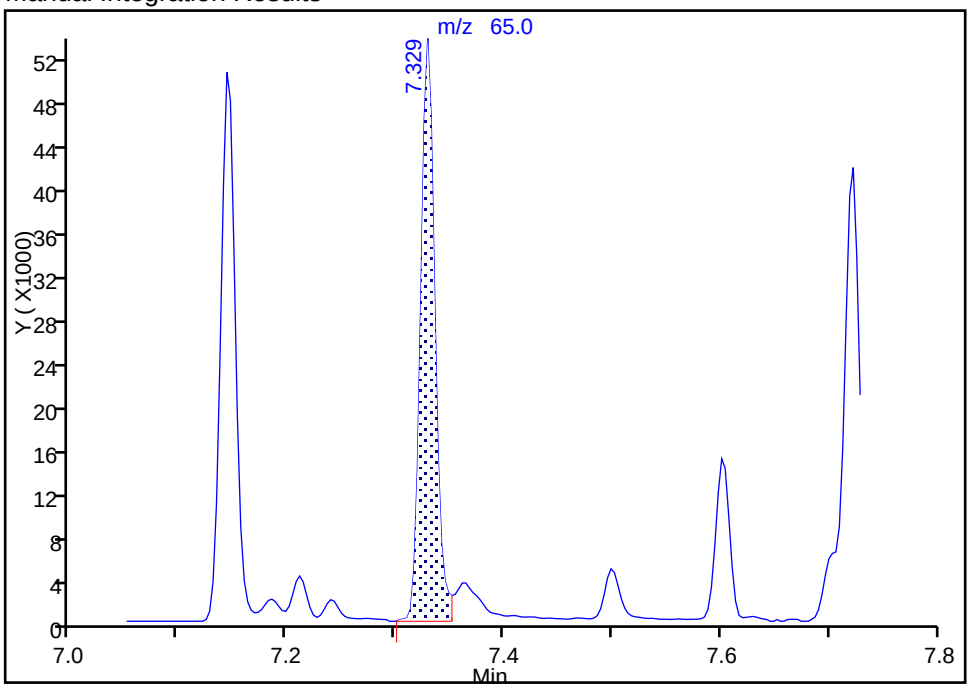
Processing Integration Results

RT: 7.33
Area: 56653
Amount: 8.162006
Amount Units: ug/ml



Manual Integration Results

RT: 7.33
Area: 49584
Amount: 7.476020
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:38:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

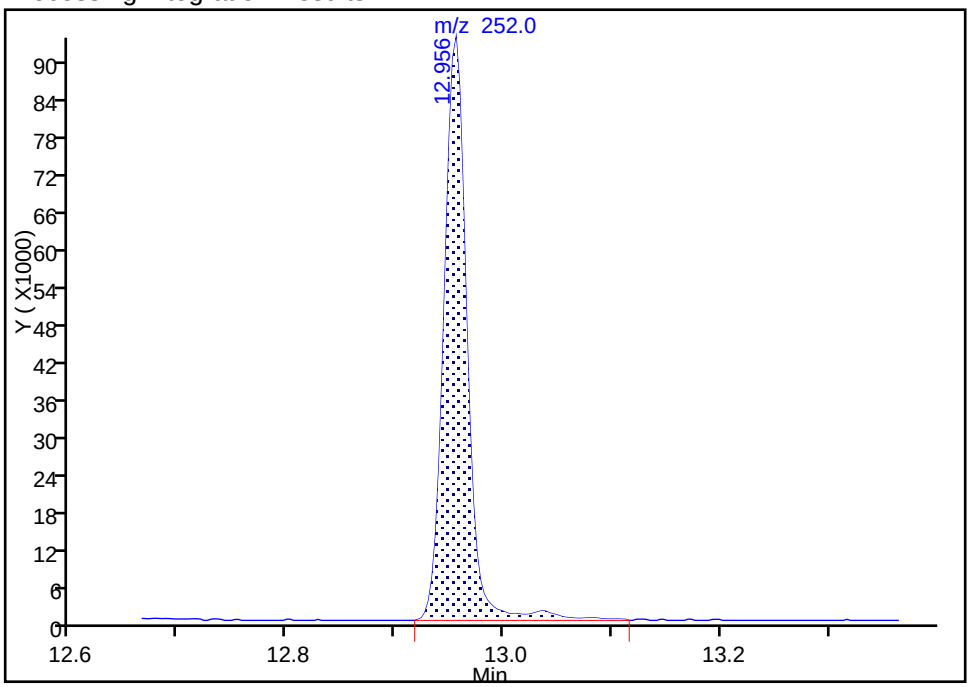
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D
Injection Date: 27-Feb-2018 16:49:30 Instrument ID: CBNAMS18
Lims ID: STD4
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

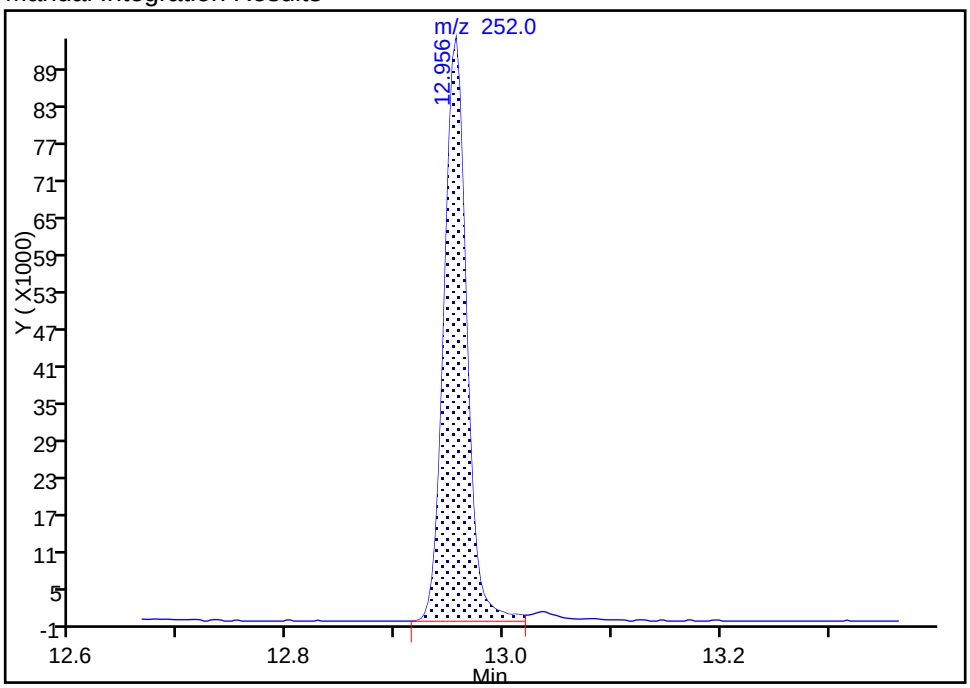
Processing Integration Results

RT: 12.96
Area: 139002
Amount: 3.892605
Amount Units: ug/ml



Manual Integration Results

RT: 12.96
Area: 135678
Amount: 3.830871
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:35:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

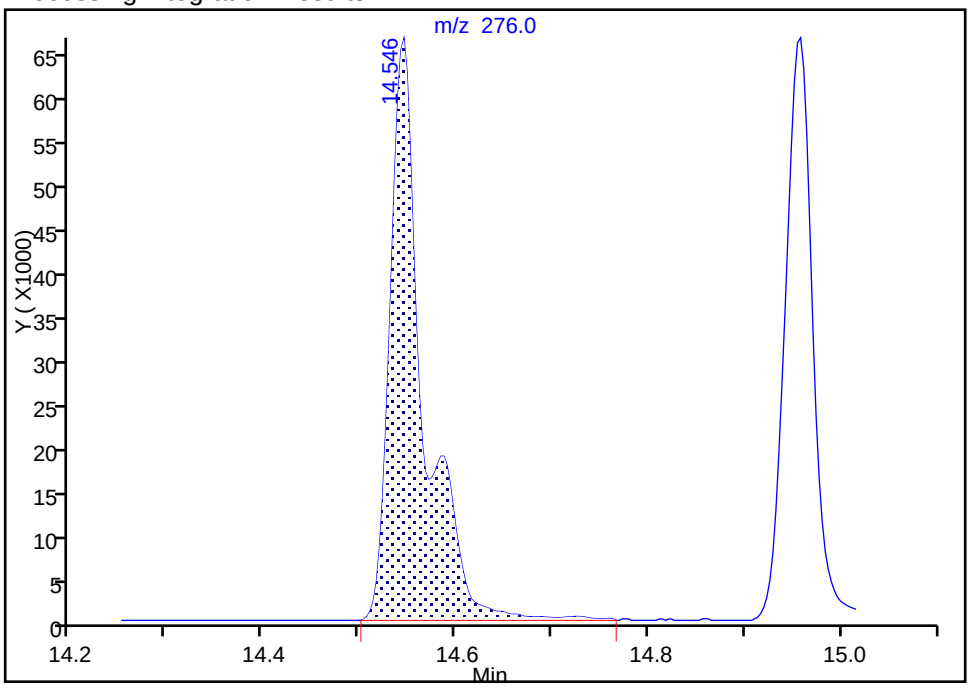
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00460.D
Injection Date: 27-Feb-2018 16:49:30 Instrument ID: CBNAMS18
Lims ID: STD4
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

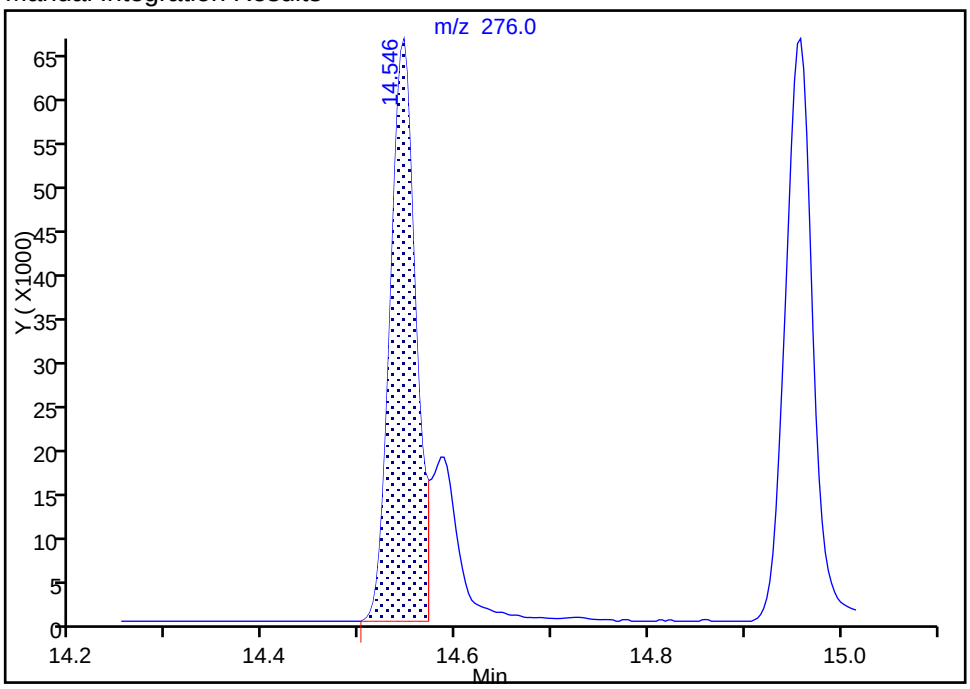
Processing Integration Results

RT: 14.55
Area: 160512
Amount: 4.219047
Amount Units: ug/ml



Manual Integration Results

RT: 14.55
Area: 122653
Amount: 3.800339
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:31:20
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00461.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Feb-2018 17:12:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-006
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:06 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:33:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.764	1.764	0.000	97	18386	2.00	1.92	
2 N-Nitrosodimethylamine	74	1.975	1.971	0.004	87	28644	2.00	1.86	
3 Pyridine	79	2.007	2.003	0.004	84	101457	4.00	3.80	
$ 4 2-Fluorophenol	112	3.085	3.085	0.000	91	41230	2.00	1.82	
$ 6 Phenol-d5	99	3.966	3.969	-0.003	98	52767	2.00	1.84	
7 Phenol	94	3.979	3.982	-0.003	95	62009	2.00	1.90	
8 Aniline	93	3.991	3.995	-0.004	96	69656	2.00	1.89	
9 Bis(2-chloroethyl)ether	93	4.046	4.049	-0.003	89	44219	2.00	1.92	
10 Benzonitrile	103	4.062	4.068	-0.006	99	79971	NC	NC	
11 2-Chlorophenol	128	4.113	4.113	0.000	92	43216	2.00	1.87	
12 n-Decane	43	4.154	4.158	-0.004	93	64781	2.00	1.89	
13 1,3-Dichlorobenzene	146	4.253	4.254	-0.001	93	47835	2.00	1.89	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.308	-0.004	98	125813	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.320	4.324	-0.004	95	48538	2.00	1.91	
16 Benzyl alcohol	108	4.435	4.439	-0.004	91	26785	2.00	1.86	
17 1,2-Dichlorobenzene	146	4.467	4.471	-0.004	93	45513	2.00	1.89	
18 2-Methylphenol	108	4.553	4.557	-0.004	86	38817	2.00	1.90	
19 2,2'-oxybis[1-chloropropan	45	4.563	4.567	-0.004	93	82541	2.00	1.93	
20 N-Methylaniline	106	4.678	4.682	-0.004	93	59953	2.00	1.80	
22 N-Nitrosodi-n-propylamine	70	4.684	4.691	-0.007	91	32955	2.00	1.90	
21 Acetophenone	105	4.684	4.691	-0.007	90	58389	2.00	1.89	
23 3 & 4 Methylphenol	108	4.700	4.707	-0.007	69	41813	2.00	1.92	
24 4-Methylphenol	108	4.700	4.707	-0.007	92	41016	2.00	1.91	
25 Hexachloroethane	117	4.790	4.793	-0.003	92	18952	2.00	1.95	
$ 27 Nitrobenzene-d5	82	4.831	4.835	-0.004	89	45169	2.00	1.87	
28 Nitrobenzene	123	4.847	4.851	-0.004	90	20241	2.00	1.97	
29 n,n'-Dimethylaniline	120	4.854	4.857	-0.003	99	60996	2.00	1.82	
30 Isophorone	82	5.074	5.078	-0.004	99	76290	2.00	1.90	
32 2-Nitrophenol	139	5.154	5.158	-0.004	86	19361	2.00	1.83	
33 2,4-Dimethylphenol	122	5.205	5.209	-0.004	90	35677	2.00	1.90	
34 Bis(2-chloroethoxy)methane	93	5.288	5.289	-0.001	94	49210	2.00	1.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.278	5.320	-0.042	93	9513	2.00	1.84	
36 2,4-Dichlorophenol	162	5.393	5.394	-0.001	93	30143	2.00	1.90	
37 1,2,4-Trichlorobenzene	180	5.467	5.467	0.000	94	33818	2.00	1.87	
* 38 Naphthalene-d8	136	5.518	5.519	-0.001	99	499128	8.00	8.00	
39 Naphthalene	128	5.537	5.541	-0.004	99	123028	2.00	1.93	
40 4-Chloroaniline	127	5.591	5.595	-0.004	95	47241	2.00	1.88	
41 Hexachlorobutadiene	225	5.665	5.669	-0.004	93	17696	2.00	1.89	
43 4-Chloro-3-methylphenol	107	6.070	6.071	-0.001	98	31620	2.00	1.92	
44 2-Methylnaphthalene	142	6.198	6.199	-0.001	83	78001	2.00	1.94	
45 1-Methylnaphthalene	142	6.290	6.292	-0.002	93	72685	2.00	1.92	
46 Hexachlorocyclopentadiene	237	6.354	6.359	-0.005	96	16507	2.00	1.75	
47 1,2,4,5-Tetrachlorobenzene	216	6.360	6.362	-0.002	96	30522	2.00	1.94	
48 2-tertbutyl-4-methylphenol	149	6.399	6.400	-0.001	88	41846	2.00	1.81	
49 2,4,6-Trichlorophenol	196	6.472	6.474	-0.002	85	17930	2.00	1.83	
50 2,4,5-Trichlorophenol	196	6.511	6.512	-0.001	93	18509	2.00	1.80	
$ 51 2-Fluorobiphenyl	172	6.549	6.551	-0.002	97	73436	2.00	1.85	
52 1,1'-Biphenyl	154	6.638	6.643	-0.005	97	85382	2.00	1.90	
53 2-Chloronaphthalene	162	6.658	6.659	-0.001	97	63921	2.00	1.89	
54 Phenyl ether	170	6.741	6.742	-0.001	87	38587	2.00	1.80	
55 2-Nitroaniline	65	6.757	6.762	-0.005	93	24669	2.00	1.83	
57 1,3-Dimethylnaphthalene	156	6.865	6.867	-0.002	89	50314	2.00	1.84	
59 Dimethyl phthalate	163	6.932	6.937	-0.005	98	65792	2.00	1.89	
60 Coumarin	146	6.948	6.953	-0.005	77	21062	2.00	1.78	
61 2,6-Dinitrotoluene	165	6.983	6.989	-0.006	90	14533	2.00	1.95	
62 Acenaphthylene	152	7.047	7.053	-0.005	97	95508	2.00	1.89	
63 3-Nitroaniline	138	7.146	7.148	-0.002	93	17248	2.00	1.83	
* 64 Acenaphthene-d10	164	7.184	7.187	-0.003	99	197762	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.210	7.216	-0.006	98	45189	2.00	1.80	
66 Acenaphthene	154	7.213	7.216	-0.003	97	59650	2.00	1.93	
67 2,4-Dinitrophenol	184	7.242	7.248	-0.006	86	12365	4.00	4.05	
68 4-Nitrophenol	65	7.328	7.334	-0.006	95	24115	4.00	3.46	M
69 2,4-Dinitrotoluene	165	7.363	7.369	-0.006	88	18385	2.00	1.88	
70 Dibenzofuran	168	7.376	7.382	-0.006	96	85107	2.00	1.89	
72 2,3,4,6-Tetrachlorophenol	232	7.501	7.503	-0.002	89	13495	2.00	1.77	
73 Diethyl phthalate	149	7.600	7.606	-0.006	97	64399	2.00	1.85	
75 Fluorene	166	7.699	7.702	-0.003	94	66747	2.00	1.92	
74 4-Chlorophenyl phenyl ethe	204	7.702	7.705	-0.003	82	29113	2.00	1.90	
76 4-Nitroaniline	138	7.721	7.730	-0.009	95	17460	2.00	1.91	
77 4,6-Dinitro-2-methylphenol	198	7.750	7.756	-0.006	75	15930	4.00	3.41	
78 N-Nitrosodiphenylamine	169	7.814	7.820	-0.006	98	46068	2.00	1.87	
79 1,2-Diphenylhydrazine	77	7.852	7.855	-0.003	99	75327	2.00	1.88	
$ 80 2,4,6-Tribromophenol	330	7.929	7.932	-0.003	93	8326	2.00	1.78	
81 4-Bromophenyl phenyl ether	248	8.165	8.165	0.000	83	17331	2.00	1.87	
82 Hexachlorobenzene	284	8.226	8.229	-0.003	99	18958	2.00	1.94	
84 Pentachlorophenol	266	8.414	8.417	-0.003	91	15134	4.00	3.65	
85 Pentachloronitrobenzene	237	8.424	8.427	-0.003	86	7231	2.00	1.75	
86 n-Octadecane	57	8.500	8.504	-0.004	91	56080	2.00	1.87	
* 87 Phenanthrene-d10	188	8.583	8.587	-0.004	99	340192	8.00	8.00	
88 Phenanthrene	178	8.606	8.609	-0.003	98	94179	2.00	1.92	
89 Anthracene	178	8.650	8.654	-0.004	98	95490	2.00	1.91	
90 Carbazole	167	8.807	8.814	-0.007	96	83114	2.00	1.89	
91 Di-n-butyl phthalate	149	9.148	9.152	-0.004	99	91699	2.00	1.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.729	9.730	-0.001	96	87153	2.00	1.86	
93 Benzidine	184	9.860	9.864	-0.004	99	42931	2.00	2.22	
94 Pyrene	202	9.940	9.944	-0.004	96	89864	2.00	1.89	
95 Bisphenol-A	213	10.004	10.005	-0.001	97	29777	2.00	1.69	
$ 96 Terphenyl-d14	244	10.096	10.101	-0.005	98	64029	2.00	1.92	
97 Butyl benzyl phthalate	149	10.594	10.596	-0.002	97	35902	2.00	1.80	
99 Carbamazepine	193	10.696	10.704	-0.008	94	23094	2.00	1.97	
100 3,3'-Dichlorobenzidine	252	11.159	11.164	-0.005	99	25464	2.00	2.15	
101 Benzo[a]anthracene	228	11.178	11.180	-0.002	99	72970	2.00	1.85	
* 102 Chrysene-d12	240	11.188	11.193	-0.005	98	266317	8.00	8.00	
104 Chrysene	228	11.217	11.222	-0.005	98	73498	2.00	1.92	
103 Bis(2-ethylhexyl) phthalat	149	11.246	11.247	-0.001	88	46759	2.00	1.86	
105 Di-n-octyl phthalate	149	12.056	12.058	-0.002	97	73784	2.00	1.74	
106 Benzo[b]fluoranthene	252	12.513	12.521	-0.008	97	69508	2.00	1.84	
107 Benzo[k]fluoranthene	252	12.548	12.560	-0.012	99	78451	2.00	2.00	
108 Benzo[a]pyrene	252	12.953	12.962	-0.009	95	69230	2.00	1.90	M
* 109 Perylene-d12	264	13.036	13.039	-0.003	96	266586	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.543	14.559	-0.016	97	61734	2.00	1.86	M
111 Dibenz(a,h)anthracene	278	14.585	14.597	-0.012	96	64689	2.00	1.89	
112 Benzo[g,h,i]perylene	276	14.952	14.971	-0.019	94	68382	2.00	1.83	
S 119 Total Cresols	1				0			3.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL4_00038 Amount Added: 1.00 Units: mL

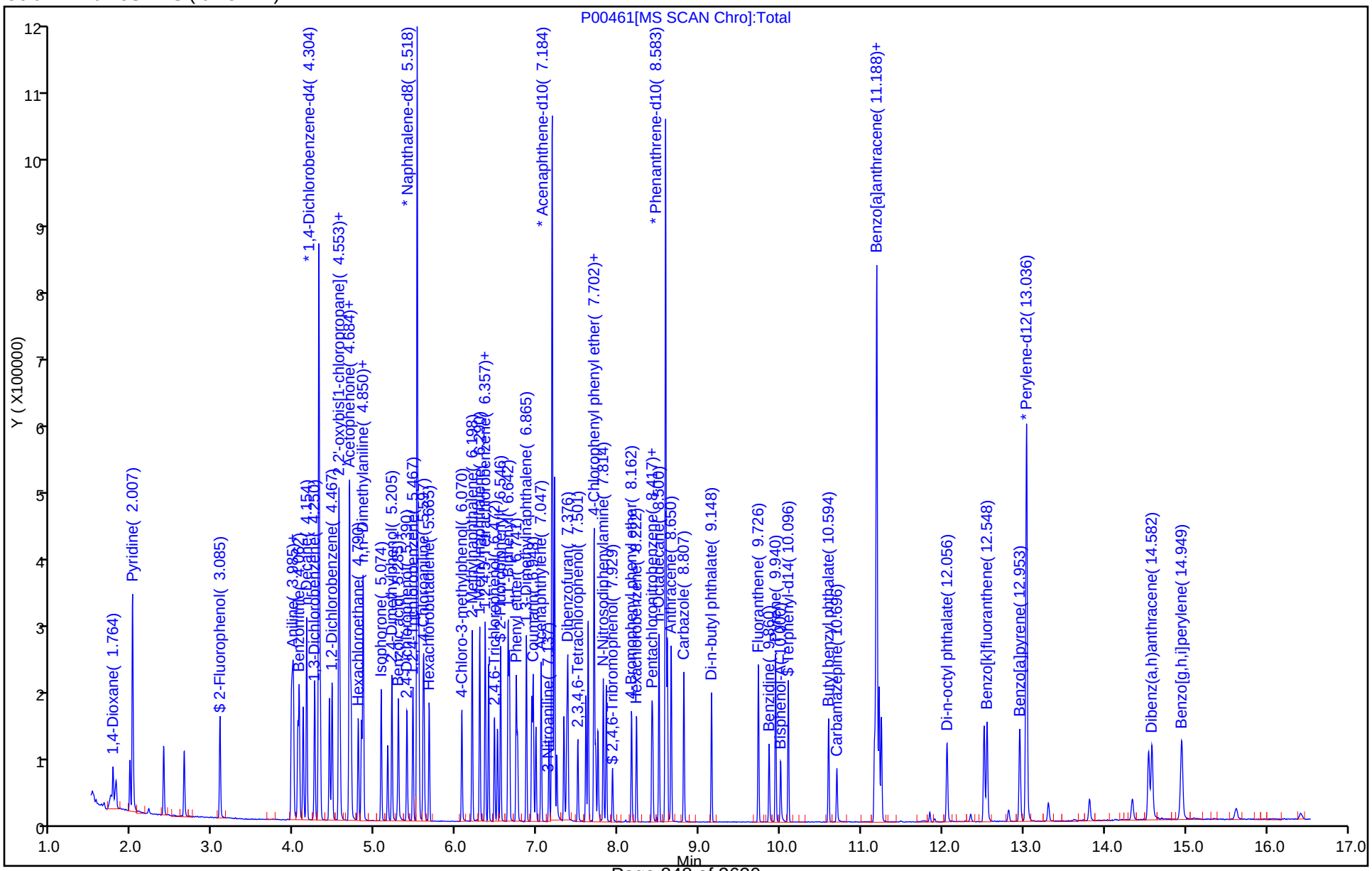
Report Date: 28-Feb-2018 11:40:08 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00461.D

Injection Date:	27-Feb-2018 17:12:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

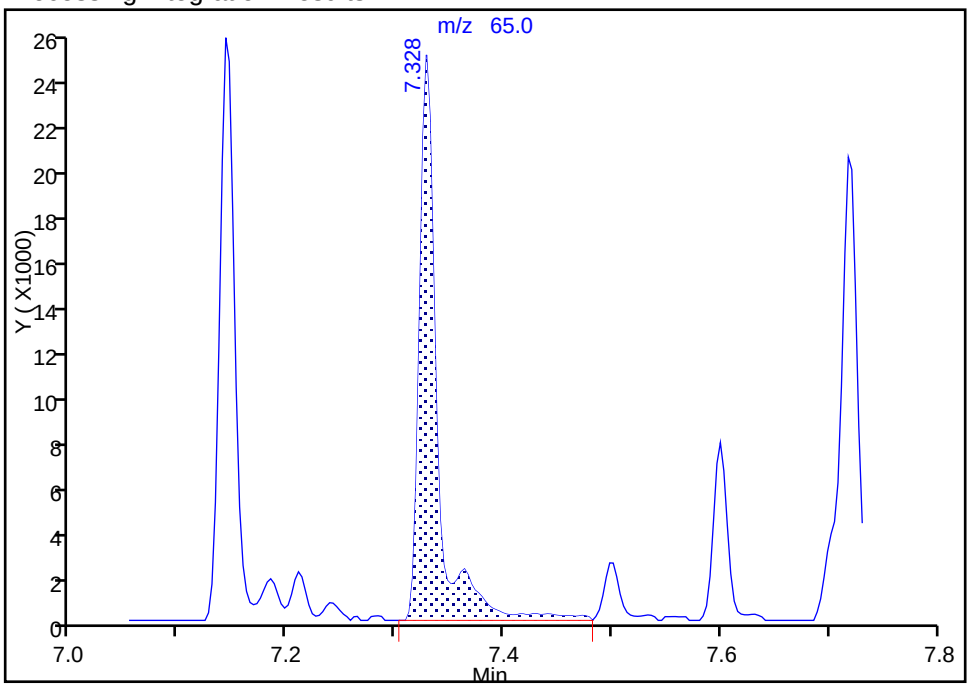
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00461.D
Injection Date: 27-Feb-2018 17:12:30 Instrument ID: CBNAMS18
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

68 4-Nitrophenol, CAS: 100-02-7

Signal: 1

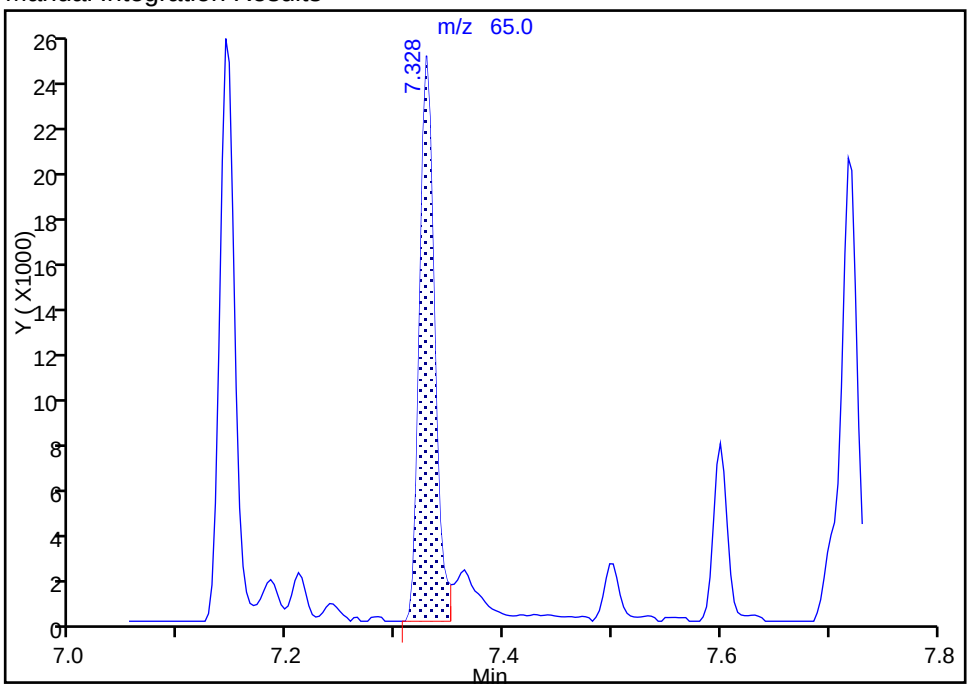
Processing Integration Results

RT: 7.33
Area: 28763
Amount: 3.842680
Amount Units: ug/ml



Manual Integration Results

RT: 7.33
Area: 24115
Amount: 3.461200
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:37:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

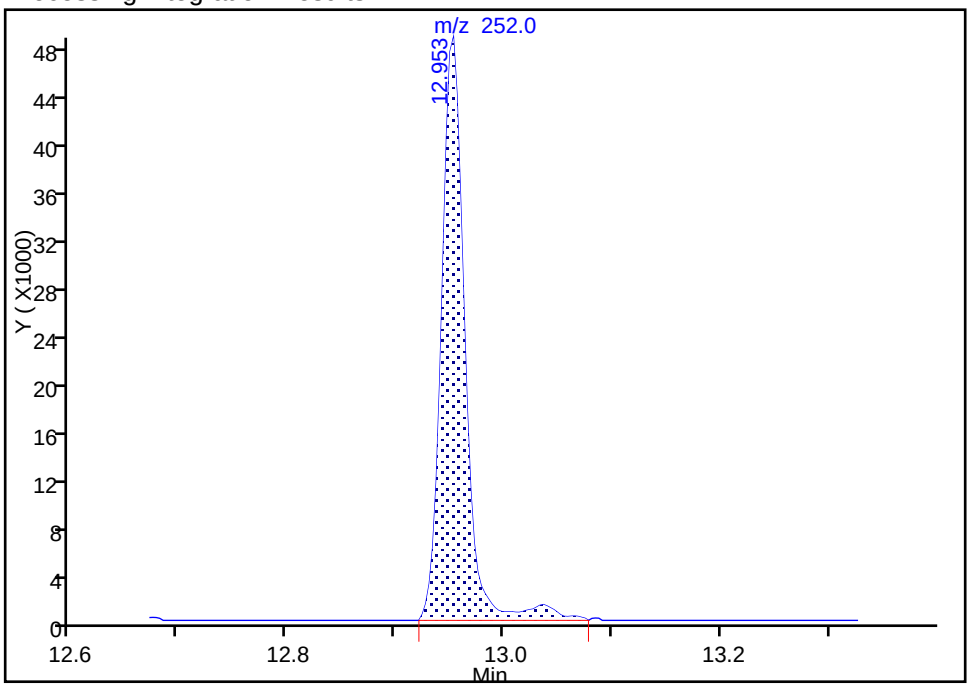
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00461.D
Injection Date: 27-Feb-2018 17:12:30 Instrument ID: CBNAMS18
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

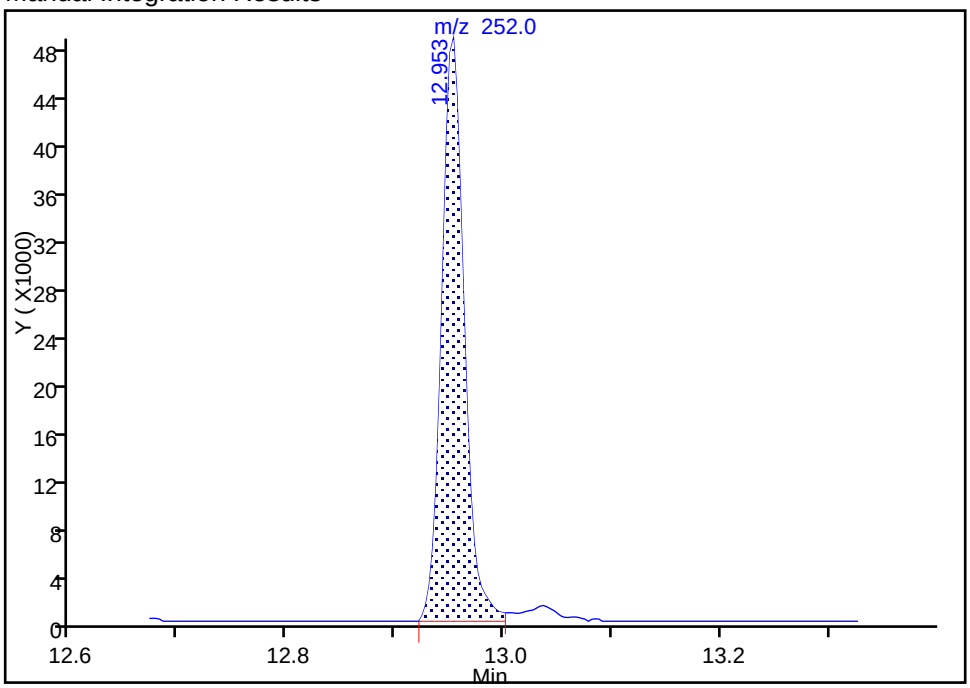
Processing Integration Results

RT: 12.95
Area: 72328
Amount: 1.976172
Amount Units: ug/ml



Manual Integration Results

RT: 12.95
Area: 69230
Amount: 1.901587
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:36:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

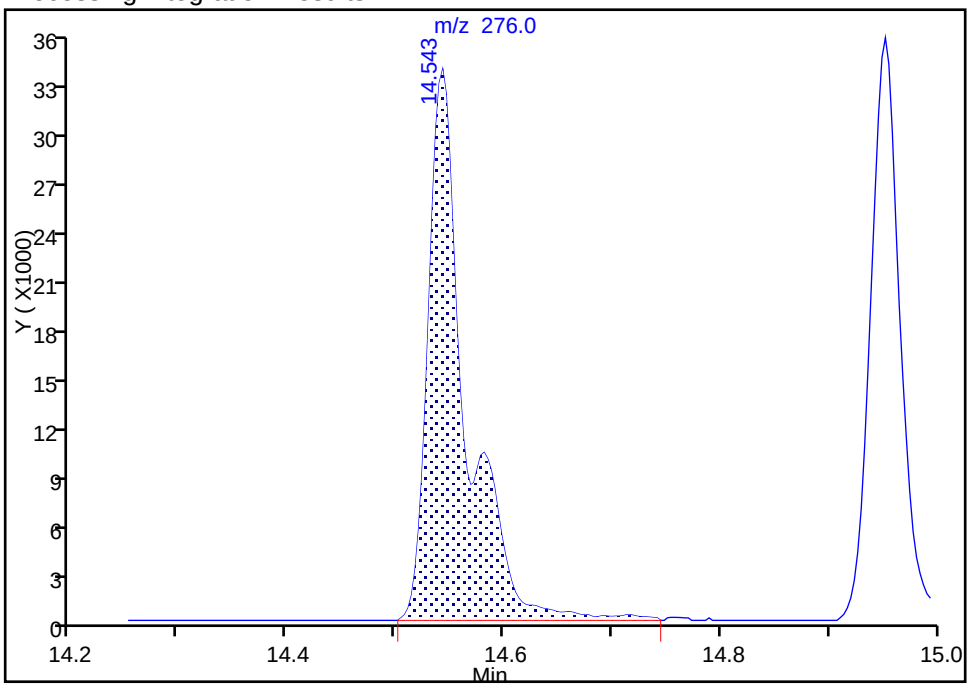
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00461.D
Injection Date: 27-Feb-2018 17:12:30 Instrument ID: CBNAMS18
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

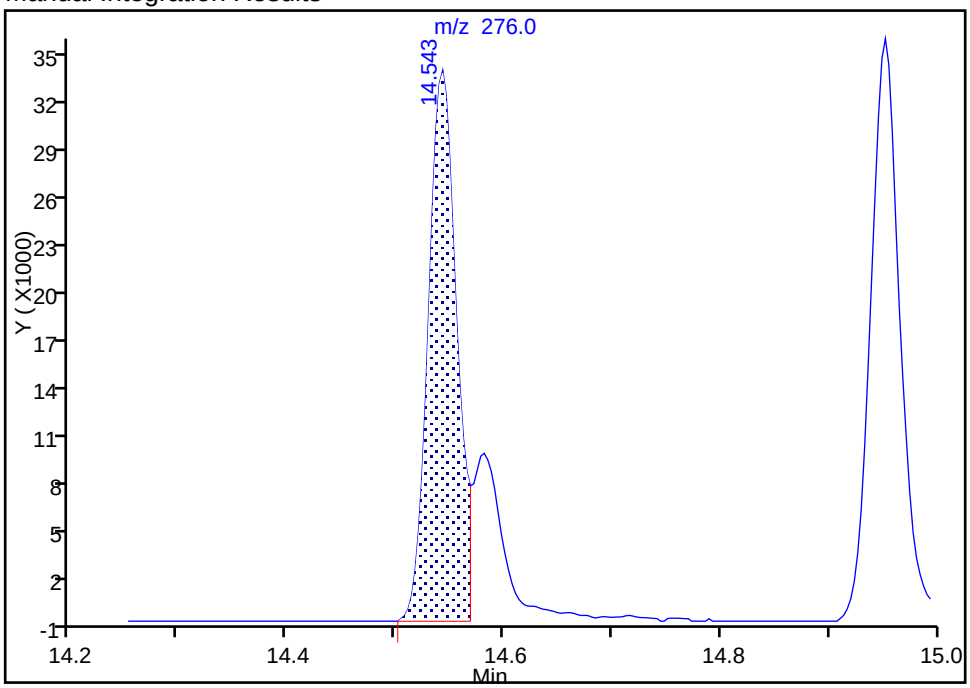
Processing Integration Results

RT: 14.54
Area: 82385
Amount: 2.174246
Amount Units: ug/ml



Manual Integration Results

RT: 14.54
Area: 61734
Amount: 1.860812
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:32:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 28-Feb-2018 11:40:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00462.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Feb-2018 17:36:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-007
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:14 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:40:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.770	1.764	0.006	96	10446	1.00	1.08	
2 N-Nitrosodimethylamine	74	1.981	1.971	0.010	86	15090	1.00	0.9688	
3 Pyridine	79	2.013	2.003	0.010	84	50115	2.00	1.86	
$ 4 2-Fluorophenol	112	3.089	3.085	0.004	90	22278	1.00	0.9715	
$ 6 Phenol-d5	99	3.966	3.969	-0.003	99	28678	1.00	0.9899	
7 Phenol	94	3.979	3.982	-0.003	97	33288	1.00	1.01	
8 Aniline	93	3.992	3.995	-0.003	96	36354	1.00	0.9748	
9 Bis(2-chloroethyl)ether	93	4.046	4.049	-0.003	92	25396	1.00	1.09	
10 Benzonitrile	103	4.065	4.068	-0.003	99	45381	NC	NC	
11 2-Chlorophenol	128	4.113	4.113	0.000	90	22905	1.00	0.9815	
12 n-Decane	43	4.155	4.158	-0.004	94	35407	1.00	1.02	
13 1,3-Dichlorobenzene	146	4.253	4.254	-0.001	94	26389	1.00	1.03	
* 14 1,4-Dichlorobenzene-d4	152	4.305	4.308	-0.003	98	127037	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.321	4.324	-0.004	93	25957	1.00	1.01	
16 Benzyl alcohol	108	4.435	4.439	-0.004	91	14479	1.00	1.00	
17 1,2-Dichlorobenzene	146	4.471	4.471	0.000	94	25340	1.00	1.04	
18 2-Methylphenol	108	4.554	4.557	-0.003	86	21483	1.00	1.04	
19 2,2'-oxybis[1-chloropropan	45	4.563	4.567	-0.004	93	45393	1.00	1.05	
20 N-Methylaniline	106	4.678	4.682	-0.004	92	33992	1.00	1.03	
21 Acetophenone	105	4.685	4.691	-0.007	90	31822	1.00	1.02	
22 N-Nitrosodi-n-propylamine	70	4.688	4.691	-0.003	92	17244	1.00	0.9822	
24 4-Methylphenol	108	4.704	4.707	-0.003	92	20989	1.00	0.9698	
23 3 & 4 Methylphenol	108	4.704	4.707	-0.003	69	22127	1.00	1.00	
25 Hexachloroethane	117	4.790	4.793	-0.003	92	10335	1.00	1.05	
$ 27 Nitrobenzene-d5	82	4.831	4.835	-0.004	90	24498	1.00	0.9797	
28 Nitrobenzene	123	4.851	4.851	0.000	90	10567	1.00	1.02	
29 n,n'-Dimethylaniline	120	4.854	4.857	-0.003	94	33710	1.00	1.01	
30 Isophorone	82	5.074	5.078	-0.004	99	41900	1.00	1.01	
32 2-Nitrophenol	139	5.154	5.158	-0.004	84	10045	1.00	0.9212	
33 2,4-Dimethylphenol	122	5.208	5.209	-0.001	89	19021	1.00	0.9792	
34 Bis(2-chloroethoxy)methane	93	5.285	5.289	-0.004	94	26459	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.275	5.320	-0.045	83	4349	1.00	1.31	
36 2,4-Dichlorophenol	162	5.393	5.394	-0.001	92	15277	1.00	0.9325	
37 1,2,4-Trichlorobenzene	180	5.467	5.467	0.000	93	18941	1.00	1.02	
* 38 Naphthalene-d8	136	5.518	5.519	-0.001	99	515354	8.00	8.00	
39 Naphthalene	128	5.537	5.541	-0.004	98	66772	1.00	1.02	
40 4-Chloroaniline	127	5.591	5.595	-0.004	96	25434	1.00	0.9787	
41 Hexachlorobutadiene	225	5.665	5.669	-0.004	93	10012	1.00	1.04	
43 4-Chloro-3-methylphenol	107	6.070	6.071	-0.001	97	16384	1.00	0.9634	
44 2-Methylnaphthalene	142	6.198	6.199	-0.001	85	41967	1.00	1.01	
45 1-Methylnaphthalene	142	6.290	6.292	-0.002	94	40446	1.00	1.04	
46 Hexachlorocyclopentadiene	237	6.354	6.359	-0.005	96	8757	1.00	0.9074	
47 1,2,4,5-Tetrachlorobenzene	216	6.360	6.362	-0.002	95	16345	1.00	1.02	
48 2-tertbutyl-4-methylphenol	149	6.399	6.400	-0.001	88	24026	1.00	1.00	
49 2,4,6-Trichlorophenol	196	6.472	6.474	-0.002	87	9404	1.00	0.9369	
50 2,4,5-Trichlorophenol	196	6.511	6.512	-0.001	92	9298	1.00	0.8824	
$ 51 2-Fluorobiphenyl	172	6.546	6.551	-0.005	96	39594	1.00	0.9743	
52 1,1'-Biphenyl	154	6.638	6.643	-0.005	96	45846	1.00	0.99	
53 2-Chloronaphthalene	162	6.657	6.659	-0.002	97	34874	1.00	1.00	
54 Phenyl ether	170	6.740	6.742	-0.002	87	21404	1.00	0.9759	
55 2-Nitroaniline	65	6.756	6.762	-0.006	94	13907	1.00	1.01	
57 1,3-Dimethylnaphthalene	156	6.865	6.867	-0.002	90	28023	1.00	1.00	
59 Dimethyl phthalate	163	6.932	6.937	-0.005	98	35241	1.00	0.9893	
60 Coumarin	146	6.948	6.953	-0.005	79	12404	1.00	1.01	
61 2,6-Dinitrotoluene	165	6.983	6.989	-0.006	89	7460	1.00	0.9776	
62 Acenaphthylene	152	7.047	7.053	-0.005	97	50868	1.00	0.9808	
63 3-Nitroaniline	138	7.143	7.148	-0.005	91	9203	1.00	0.9519	
* 64 Acenaphthene-d10	164	7.184	7.187	-0.003	99	202681	8.00	8.00	
66 Acenaphthene	154	7.213	7.216	-0.003	97	32445	1.00	1.02	
65 3,5-di-tert-butyl-4-hydrox	205	7.210	7.216	-0.006	97	26255	1.00	1.02	
67 2,4-Dinitrophenol	184	7.242	7.248	-0.006	87	4895	2.00	2.53	
68 4-Nitrophenol	65	7.328	7.334	-0.006	91	11297	2.00	1.58	M
69 2,4-Dinitrotoluene	165	7.363	7.369	-0.006	90	9632	1.00	0.9613	
70 Dibenzofuran	168	7.376	7.382	-0.006	95	46760	1.00	1.01	
72 2,3,4,6-Tetrachlorophenol	232	7.501	7.503	-0.002	87	6590	1.00	0.8418	
73 Diethyl phthalate	149	7.600	7.606	-0.006	97	34790	1.00	0.9777	
75 Fluorene	166	7.698	7.702	-0.004	95	35574	1.00	1.00	
74 4-Chlorophenyl phenyl ethe	204	7.702	7.705	-0.003	83	16060	1.00	1.02	
76 4-Nitroaniline	138	7.718	7.730	-0.012	94	8599	1.00	0.9163	
77 4,6-Dinitro-2-methylphenol	198	7.750	7.756	-0.006	74	7335	2.00	1.54	
78 N-Nitrosodiphenylamine	169	7.814	7.820	-0.006	98	24985	1.00	0.99	
79 1,2-Diphenylhydrazine	77	7.852	7.855	-0.003	99	40830	1.00	1.00	
$ 80 2,4,6-Tribromophenol	330	7.928	7.932	-0.004	92	4179	1.00	0.9516	
81 4-Bromophenyl phenyl ether	248	8.161	8.165	-0.004	86	9622	1.00	1.02	
82 Hexachlorobenzene	284	8.225	8.229	-0.004	98	10167	1.00	1.02	
84 Pentachlorophenol	266	8.414	8.417	-0.003	91	6370	2.00	2.12	
85 Pentachloronitrobenzene	237	8.423	8.427	-0.004	86	4095	1.00	0.9692	
86 n-Octadecane	57	8.500	8.504	-0.004	92	28421	1.00	0.9263	
* 87 Phenanthrene-d10	188	8.583	8.587	-0.004	99	348083	8.00	8.00	
88 Phenanthrene	178	8.602	8.609	-0.007	97	51121	1.00	1.02	
89 Anthracene	178	8.650	8.654	-0.004	98	51109	1.00	1.00	
90 Carbazole	167	8.810	8.814	-0.004	97	43087	1.00	0.9596	
91 Di-n-butyl phthalate	149	9.148	9.152	-0.004	99	50132	1.00	0.9572	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.729	9.730	-0.001	96	45820	1.00	0.9559	
93 Benzidine	184	9.859	9.864	-0.005	99	13447	1.00	1.11	
94 Pyrene	202	9.939	9.944	-0.005	95	48797	1.00	1.03	
95 Bisphenol-A	213	10.003	10.005	-0.002	96	13553	1.00	0.7722	
$ 96 Terphenyl-d14	244	10.096	10.101	-0.005	97	33769	1.00	1.01	
97 Butyl benzyl phthalate	149	10.594	10.596	-0.002	97	18213	1.00	0.9146	
99 Carbamazepine	193	10.696	10.704	-0.008	93	10584	1.00	1.23	
100 3,3'-Dichlorobenzidine	252	11.158	11.164	-0.006	98	12842	1.00	1.12	
101 Benzo[a]anthracene	228	11.178	11.180	-0.002	99	38531	1.00	0.9796	
* 102 Chrysene-d12	240	11.187	11.193	-0.006	98	265875	8.00	8.00	
104 Chrysene	228	11.216	11.222	-0.006	98	40205	1.00	1.05	
103 Bis(2-ethylhexyl) phthalat	149	11.245	11.247	-0.002	88	23453	1.00	0.9365	
105 Di-n-octyl phthalate	149	12.055	12.058	-0.003	97	36362	1.00	0.8471	
106 Benzo[b]fluoranthene	252	12.512	12.521	-0.009	96	36700	1.00	0.9617	
107 Benzo[k]fluoranthene	252	12.547	12.560	-0.013	98	39860	1.00	1.00	
108 Benzo[a]pyrene	252	12.952	12.962	-0.010	95	36166	1.00	0.9811	
* 109 Perylene-d12	264	13.036	13.039	-0.003	96	269928	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.539	14.559	-0.020	95	32082	1.00	0.9551	M
111 Dibenz(a,h)anthracene	278	14.581	14.597	-0.016	95	35496	1.00	1.03	
112 Benzo[g,h,i]perylene	276	14.951	14.971	-0.020	95	36436	1.00	0.9605	
S 119 Total Cresols	1				0			2.05	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL3_00034 Amount Added: 1.00 Units: mL

Report Date: 28-Feb-2018 11:40:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00462.D

Injection Date: 27-Feb-2018 17:36:30 Instrument ID: CBNAMS18 Operator ID:

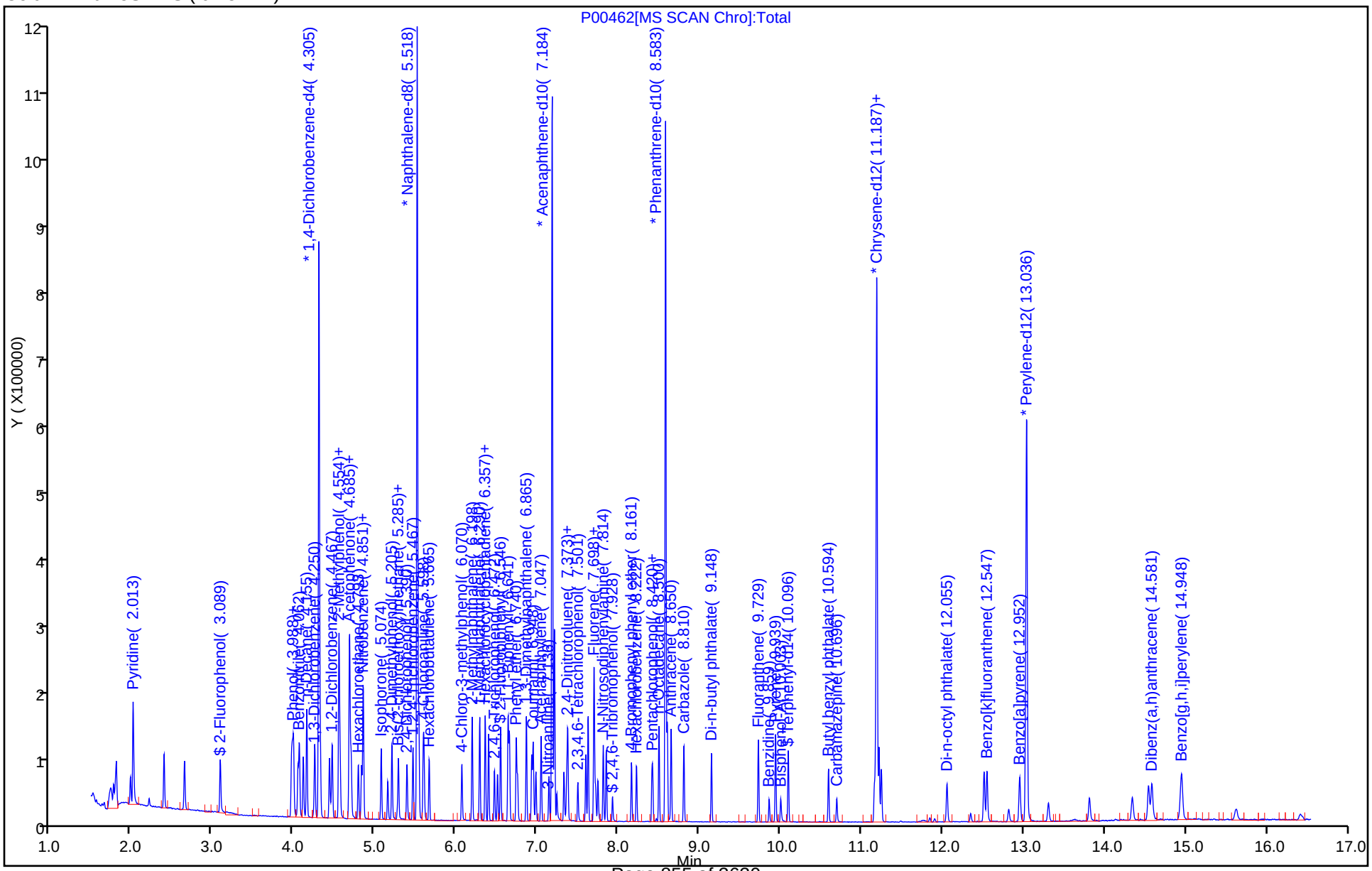
Lims ID: STD1 Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

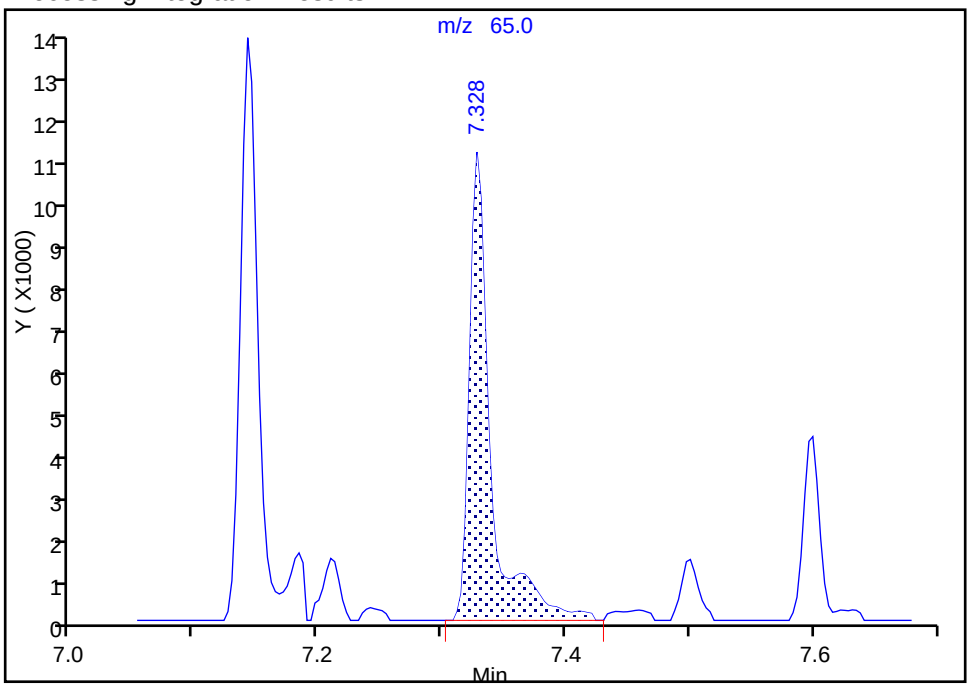
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00462.D
Injection Date: 27-Feb-2018 17:36:30 Instrument ID: CBNAMS18
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

68 4-Nitrophenol, CAS: 100-02-7

Signal: 1

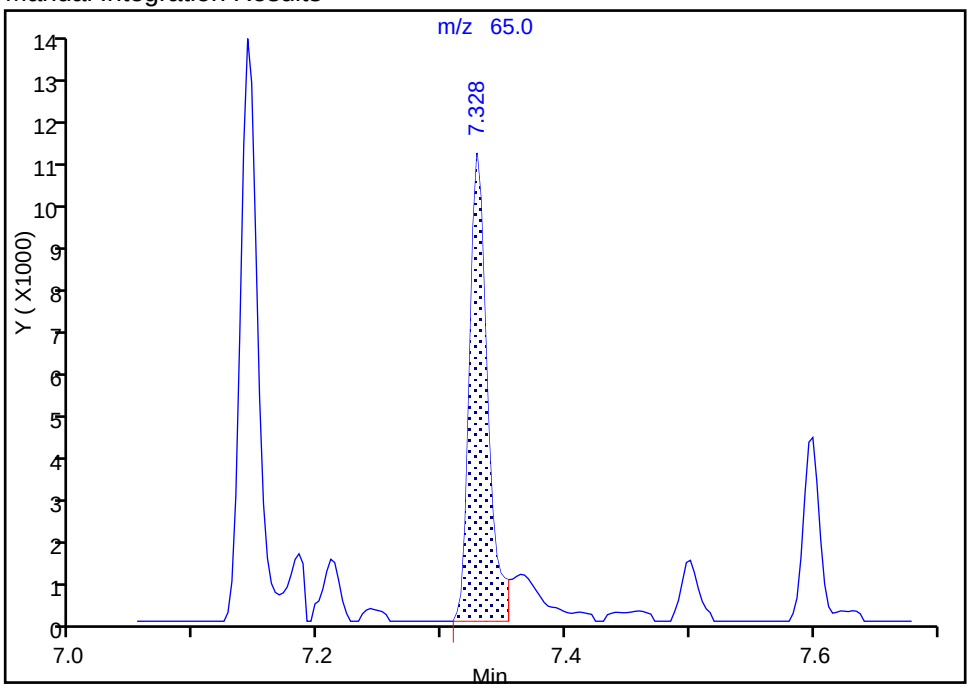
Processing Integration Results

RT: 7.33
Area: 13382
Amount: 1.829571
Amount Units: ug/ml



Manual Integration Results

RT: 7.33
Area: 11297
Amount: 1.582094
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:39:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

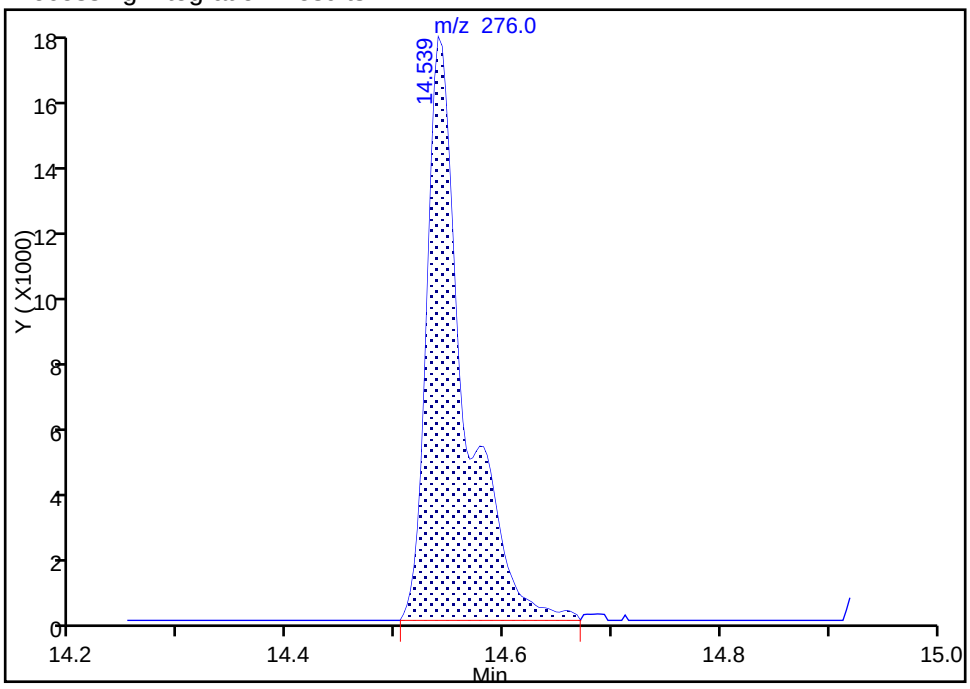
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00462.D
Injection Date: 27-Feb-2018 17:36:30 Instrument ID: CBNAMS18
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

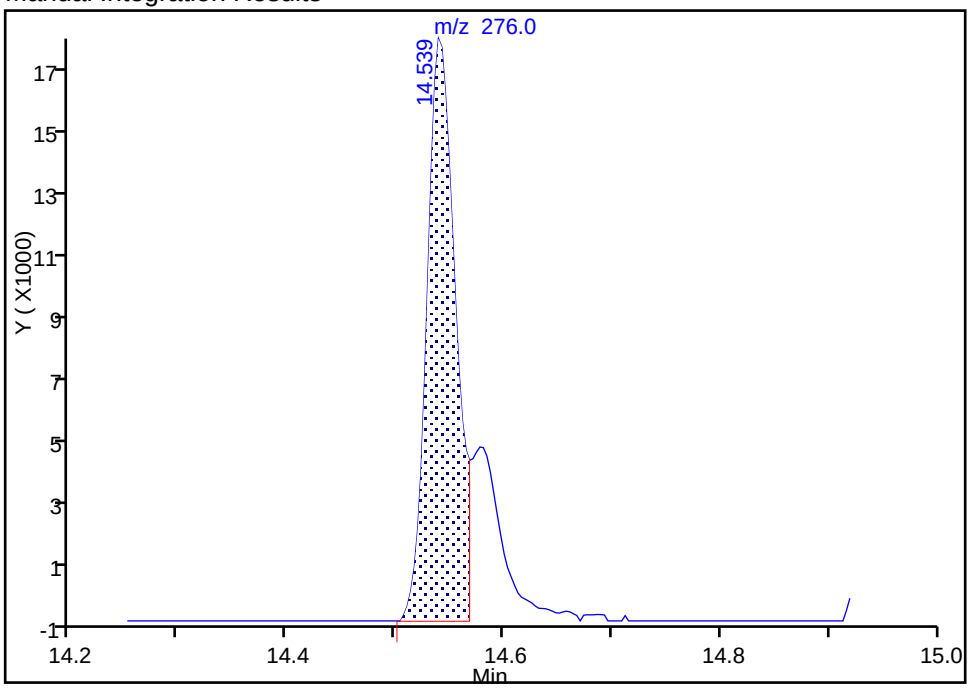
Processing Integration Results

RT: 14.54
Area: 42099
Amount: 1.135986
Amount Units: ug/ml



Manual Integration Results

RT: 14.54
Area: 32082
Amount: 0.955056
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:40:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 28-Feb-2018 11:40:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Feb-2018 18:00:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-008
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:21 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:42:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.085	3.085	0.000	93	3671	0.2000	0.2003	
$ 6 Phenol-d5	99	3.966	3.969	-0.003	95	4132	0.2000	0.1785	
9 Bis(2-chloroethyl)ether	93	4.045	4.049	-0.004	90	3462	0.2000	0.1861	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.308	-0.004	98	101531	8.00	8.00	
20 N-Methylaniline	106	4.677	4.682	-0.005	90	4508	0.2000	0.2169	
22 N-Nitrosodi-n-propylamine	70	4.687	4.691	-0.004	71	2959	0.2000	0.2109	a
25 Hexachloroethane	117	4.789	4.793	-0.004	86	1514	0.2000	0.1930	
$ 27 Nitrobenzene-d5	82	4.831	4.835	-0.004	91	3584	0.2000	0.1836	
28 Nitrobenzene	123	4.850	4.851	-0.001	91	1707	0.2000	0.2063	
29 n,n'-Dimethylaniline	120	4.853	4.857	-0.004	92	4857	0.2000	0.2144	
30 Isophorone	82	5.073	5.078	-0.005	83	6125	0.2000	0.1896	a
37 1,2,4-Trichlorobenzene	180	5.466	5.467	-0.001	92	2996	0.2000	0.2060	
* 38 Naphthalene-d8	136	5.517	5.519	-0.002	99	402302	8.00	8.00	
41 Hexachlorobutadiene	225	5.664	5.669	-0.005	89	1385	0.2000	0.1837	
44 2-Methylnaphthalene	142	6.196	6.199	-0.003	86	6592	0.2000	0.2030	
48 2-tertbutyl-4-methylphenol	149	6.397	6.400	-0.003	87	3649	0.2000	0.1953	
$ 51 2-Fluorobiphenyl	172	6.547	6.551	-0.004	96	6459	0.2000	0.2030	
61 2,6-Dinitrotoluene	165	6.981	6.989	-0.008	88	930	0.2000	0.1556	
* 64 Acenaphthene-d10	164	7.182	7.187	-0.005	99	158712	8.00	8.00	
69 2,4-Dinitrotoluene	165	7.364	7.369	-0.005	30	1283	0.2000	0.1635	a
$ 80 2,4,6-Tribromophenol	330	7.932	7.932	0.000	1	211	0.2000	0.2046	a
82 Hexachlorobenzene	284	8.223	8.229	-0.006	92	1546	0.2000	0.2002	
* 87 Phenanthrene-d10	188	8.583	8.587	-0.004	99	269482	8.00	8.00	
$ 96 Terphenyl-d14	244	10.096	10.101	-0.005	96	4912	0.2000	0.1980	
100 3,3'-Dichlorobenzidine	252	11.162	11.164	-0.002	94	1312	0.2000	0.1576	
101 Benzo[a]anthracene	228	11.174	11.180	-0.006	97	5861	0.2000	0.1998	
* 102 Chrysene-d12	240	11.187	11.193	-0.006	98	198275	8.00	8.00	
104 Chrysene	228	11.216	11.222	-0.006	98	5776	0.2000	0.2028	
103 Bis(2-ethylhexyl) phthalat	149	11.245	11.247	-0.002	34	2621	0.2000	0.1403	a
106 Benzo[b]fluoranthene	252	12.511	12.521	-0.010	96	5390	0.2000	0.1856	
107 Benzo[k]fluoranthene	252	12.547	12.560	-0.013	95	5661	0.2000	0.1872	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
108 Benzo[a]pyrene	252	12.949	12.962	-0.013	95	5059	0.2000	0.1803	
* 109 Perylene-d12	264	13.035	13.039	-0.004	97	205415	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.542	14.559	-0.017	93	4367	0.2000	0.1708	M
111 Dibenz(a,h)anthracene	278	14.580	14.597	-0.017	96	4449	0.2000	0.1691	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_BNAL2_00029 Amount Added: 1.00 Units: mL

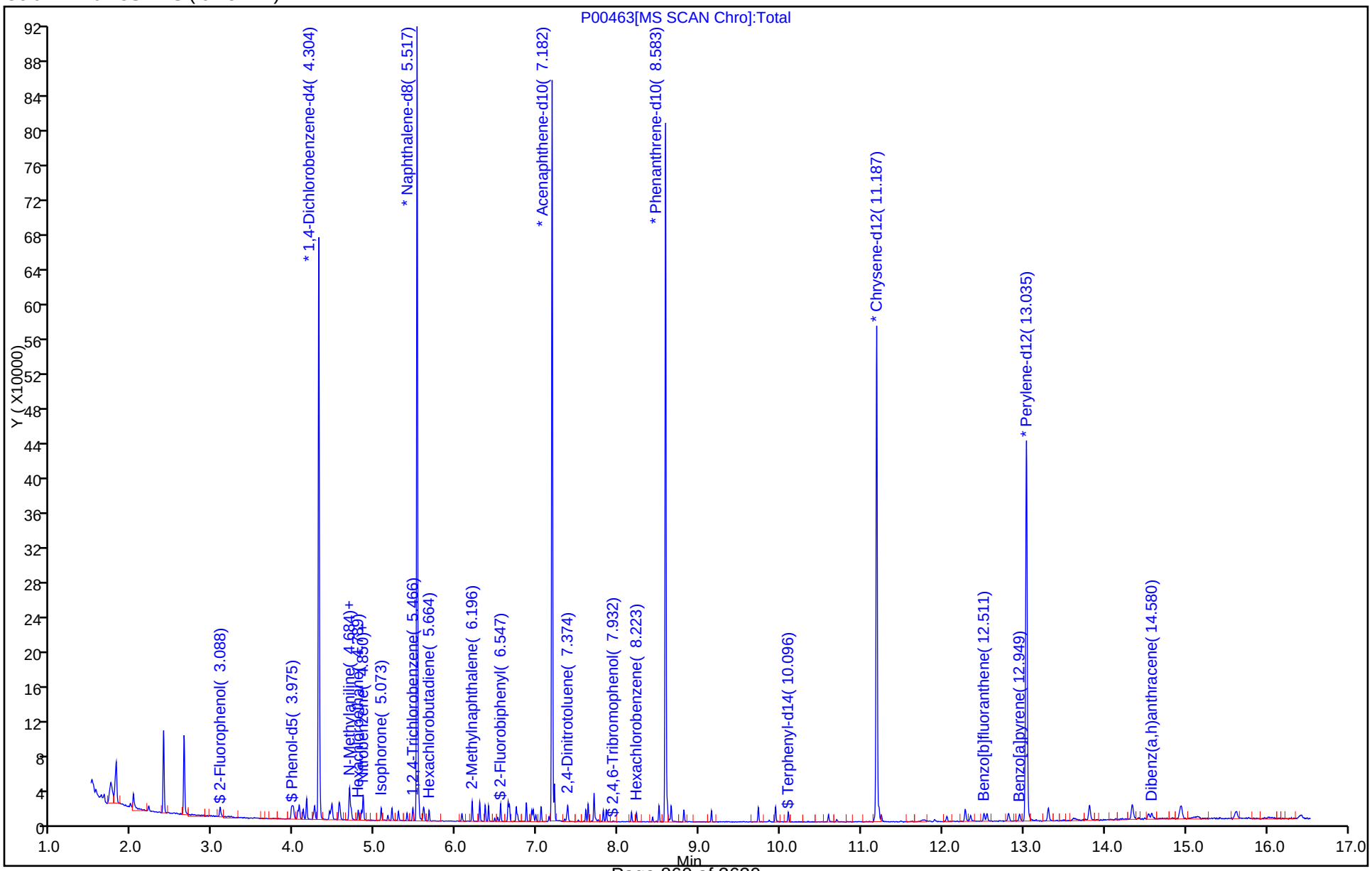
Report Date: 28-Feb-2018 11:40:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D

Injection Date:	27-Feb-2018 18:00:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD02			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

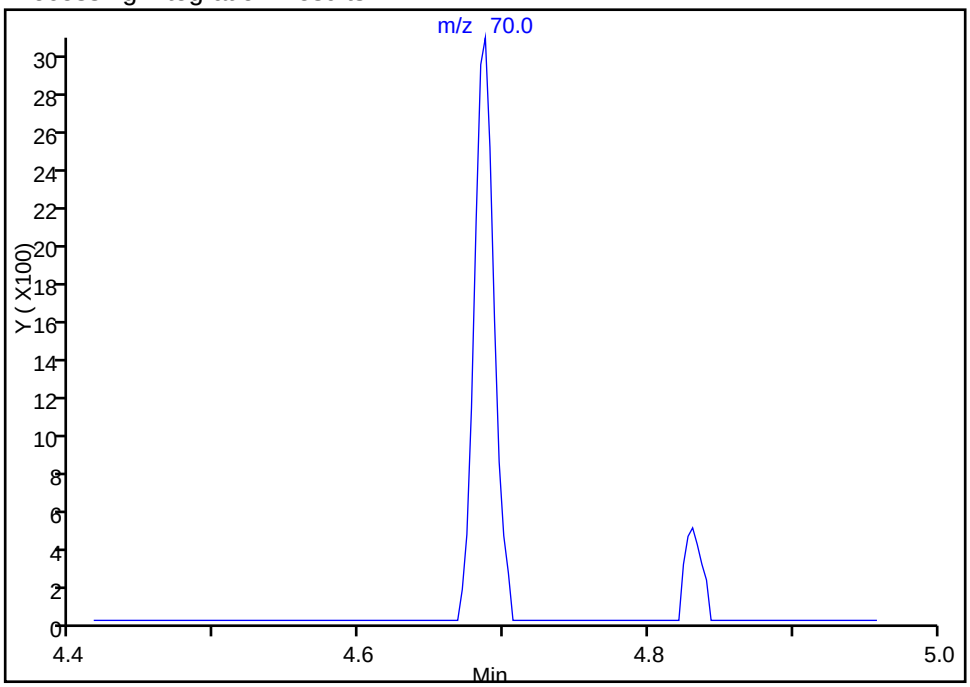
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D
Injection Date: 27-Feb-2018 18:00:30 Instrument ID: CBNAMS18
Lims ID: STD02
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

22 N-Nitrosodi-n-propylamine, CAS: 621-64-7

Signal: 1

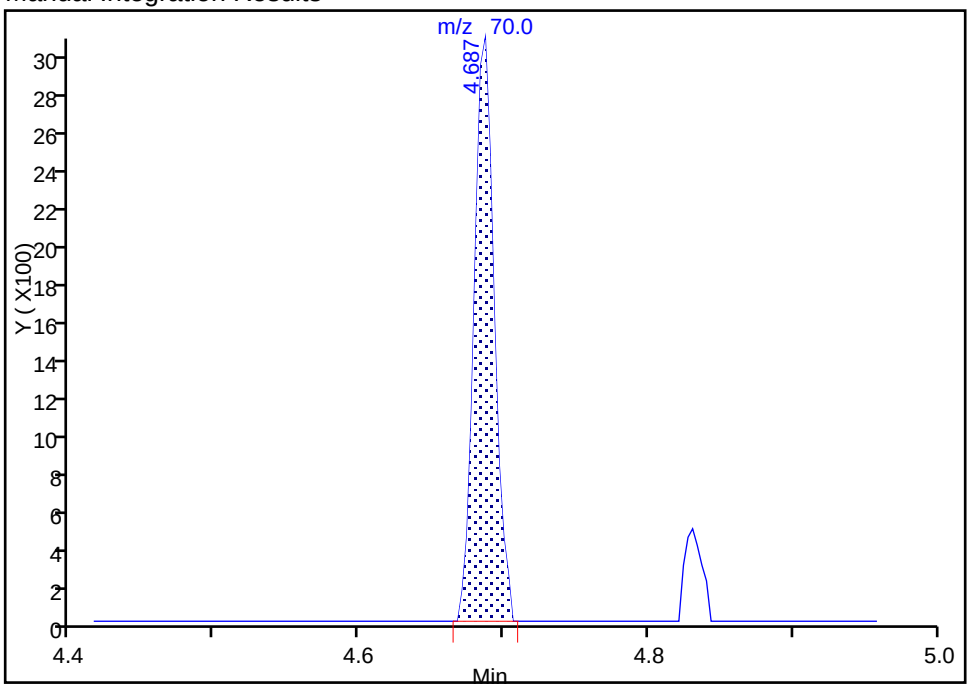
Not Detected
Expected RT: 4.69

Processing Integration Results



Manual Integration Results

RT: 4.69
Area: 2959
Amount: 0.210873
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:42:01
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

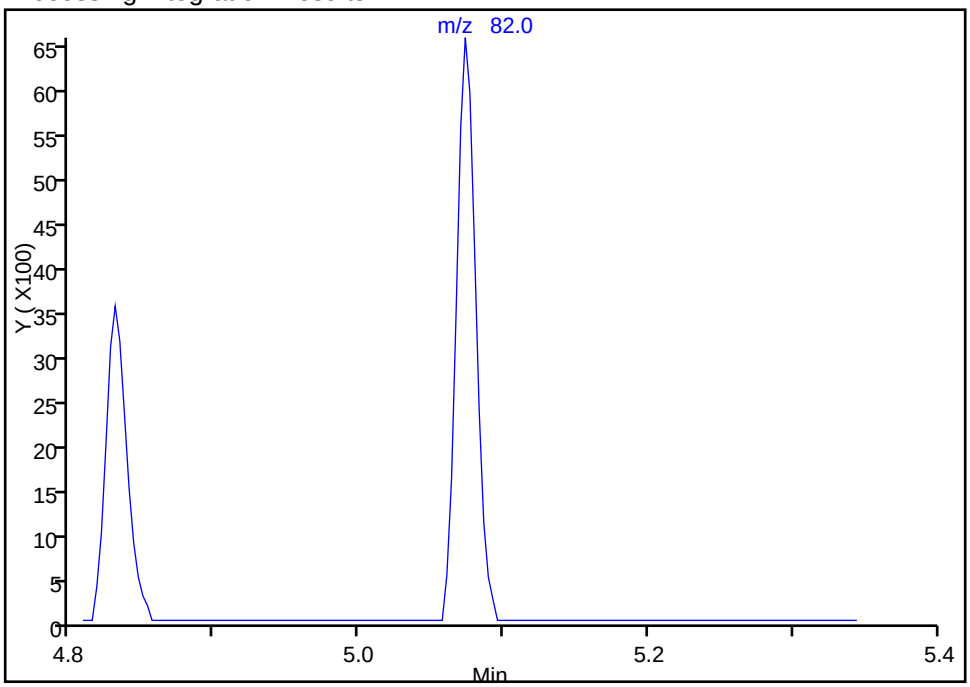
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D
Injection Date: 27-Feb-2018 18:00:30 Instrument ID: CBNAMS18
Lims ID: STD02
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

30 Isophorone, CAS: 78-59-1

Signal: 1

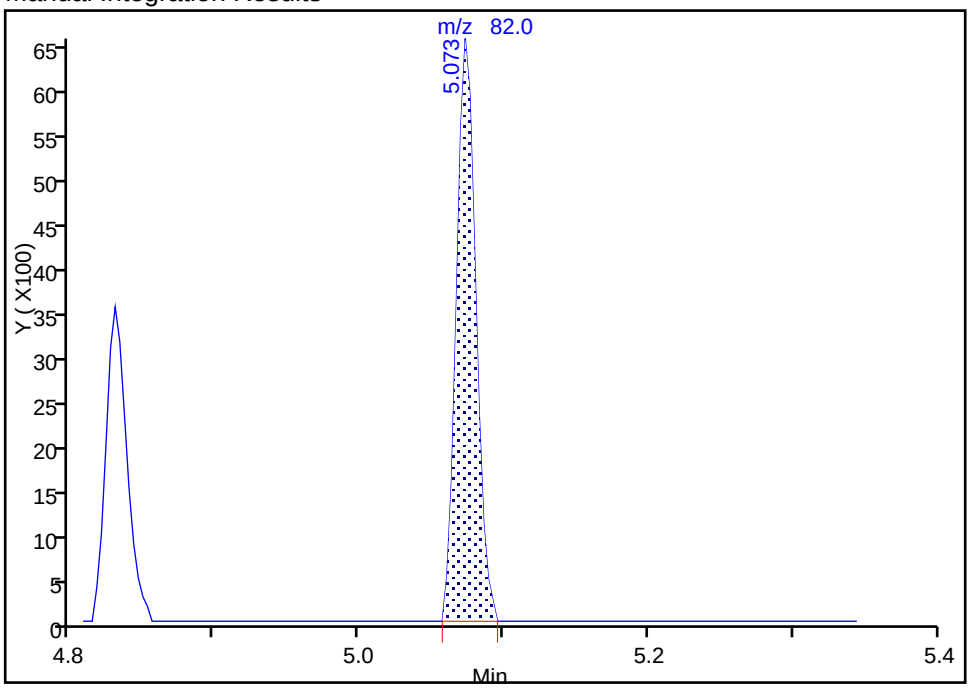
Not Detected
Expected RT: 5.08

Processing Integration Results



Manual Integration Results

RT: 5.07
Area: 6125
Amount: 0.189587
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:40:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

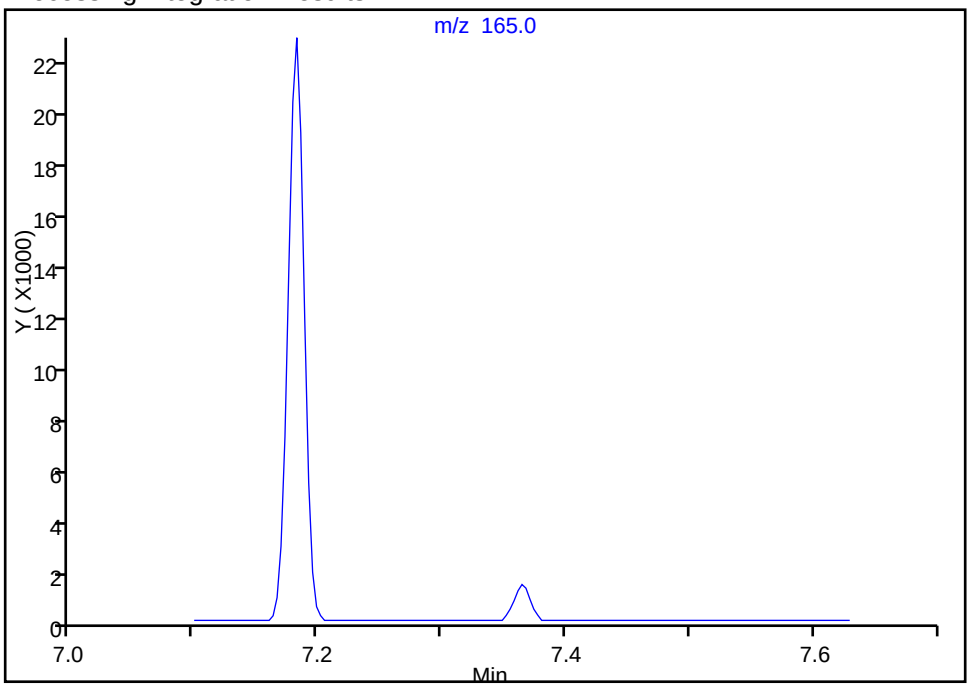
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D				
Injection Date:	27-Feb-2018 18:00:30	Instrument ID:	CBNAMS18		
Lims ID:	STD02				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

69 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

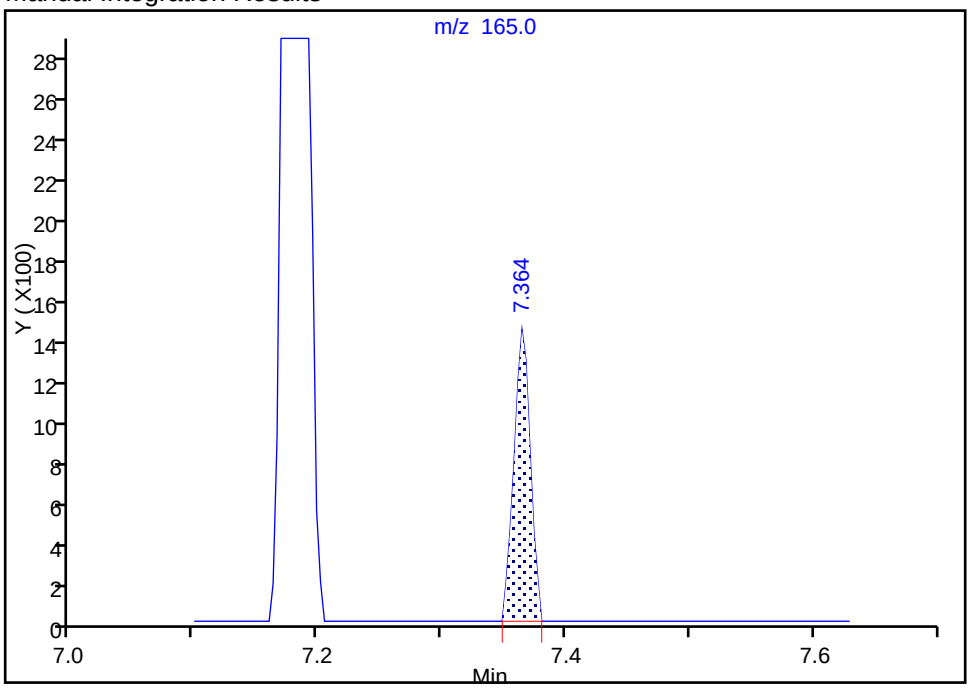
Not Detected
Expected RT: 7.37

Processing Integration Results



Manual Integration Results

RT: 7.36
Area: 1283
Amount: 0.163519
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:41:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

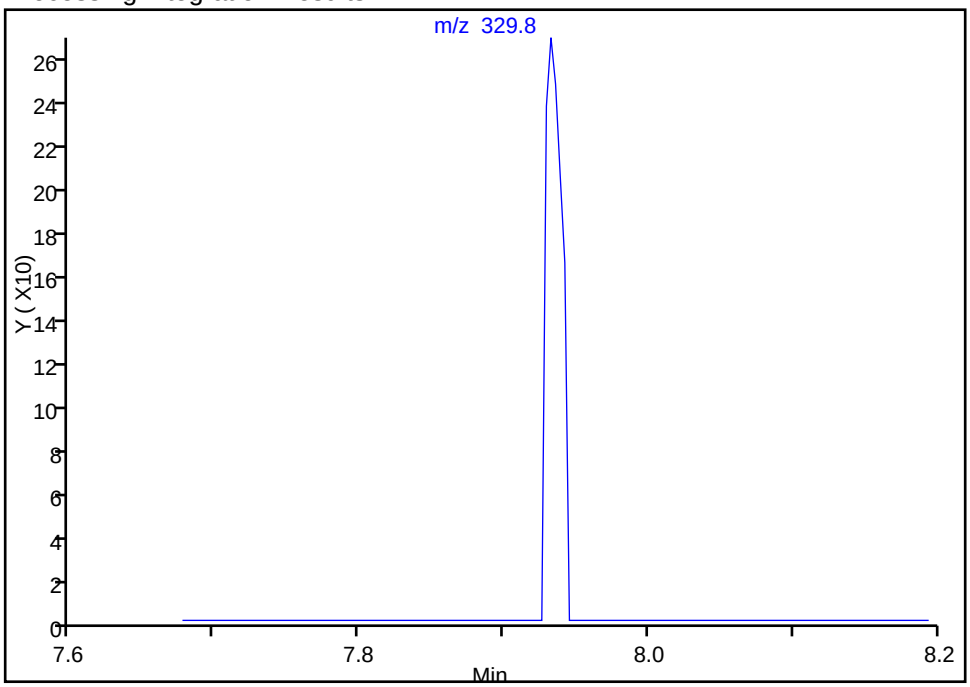
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D				
Injection Date:	27-Feb-2018 18:00:30	Instrument ID:	CBNAMS18		
Lims ID:	STD02				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

$ 80 2,4,6-Tribromophenol, CAS: 118-79-6

Signal: 1

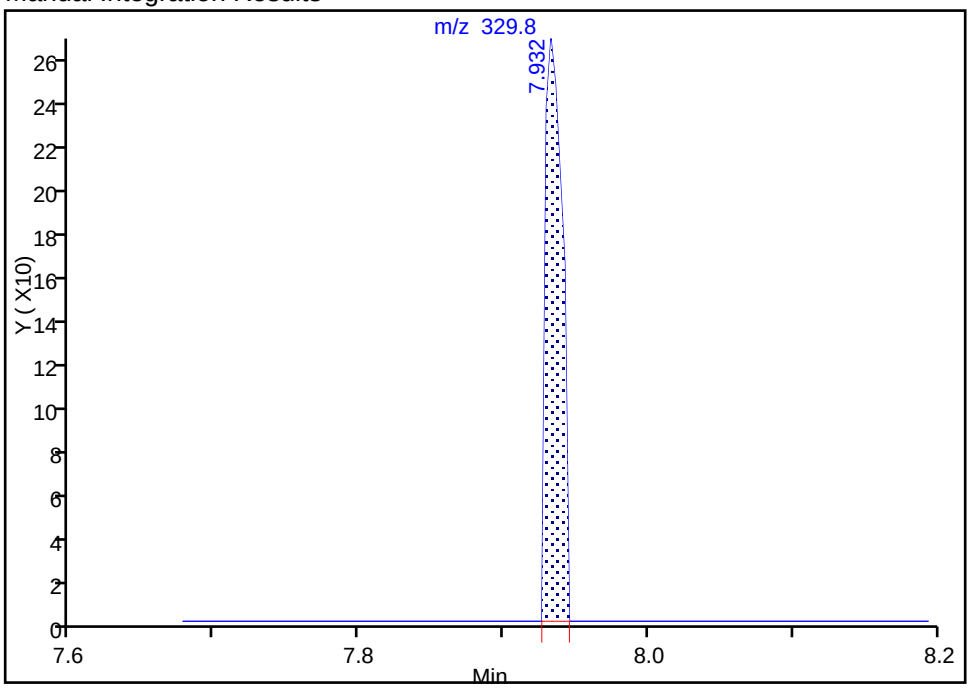
Not Detected
Expected RT: 7.93

Processing Integration Results



Manual Integration Results

RT: 7.93
Area: 211
Amount: 0.204627
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:41:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

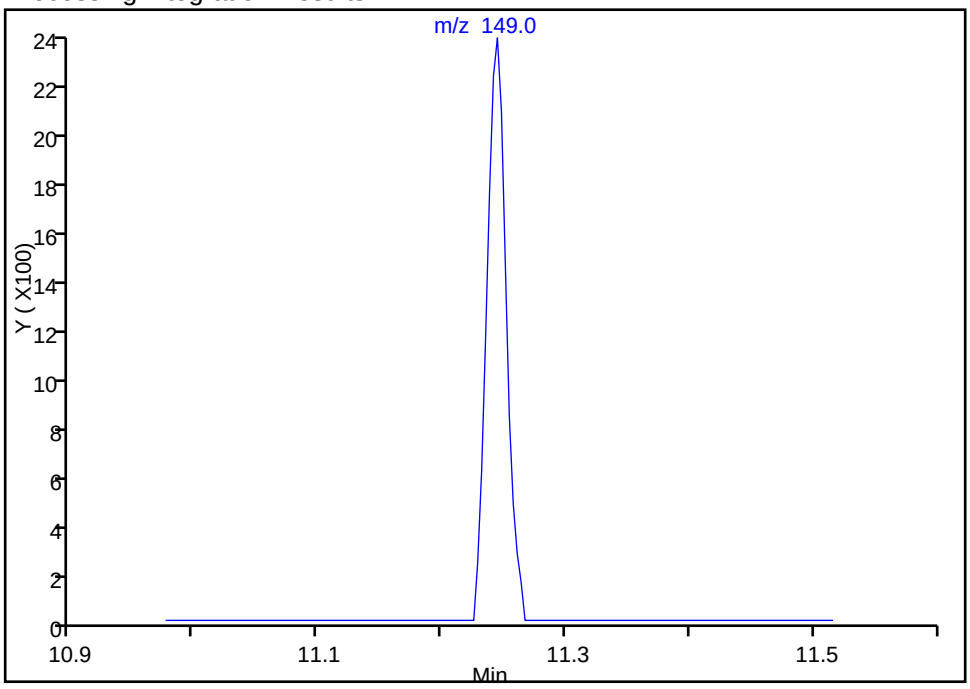
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D				
Injection Date:	27-Feb-2018 18:00:30	Instrument ID:	CBNAMS18		
Lims ID:	STD02				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

103 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

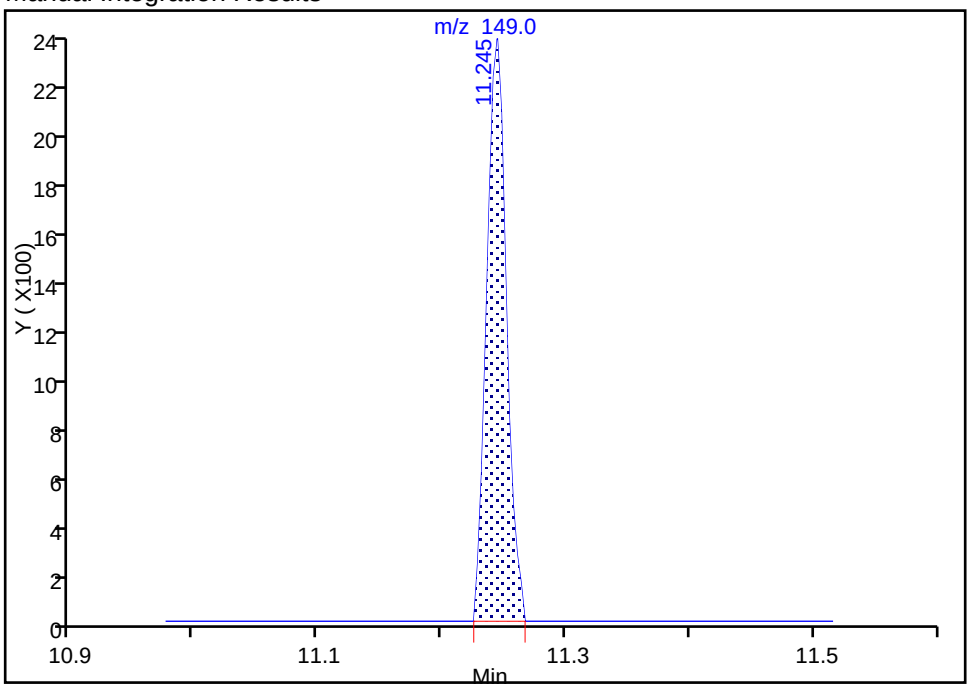
Processing Integration Results

Not Detected
Expected RT: 11.25



Manual Integration Results

RT: 11.24
Area: 2621
Amount: 0.140347
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:41:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

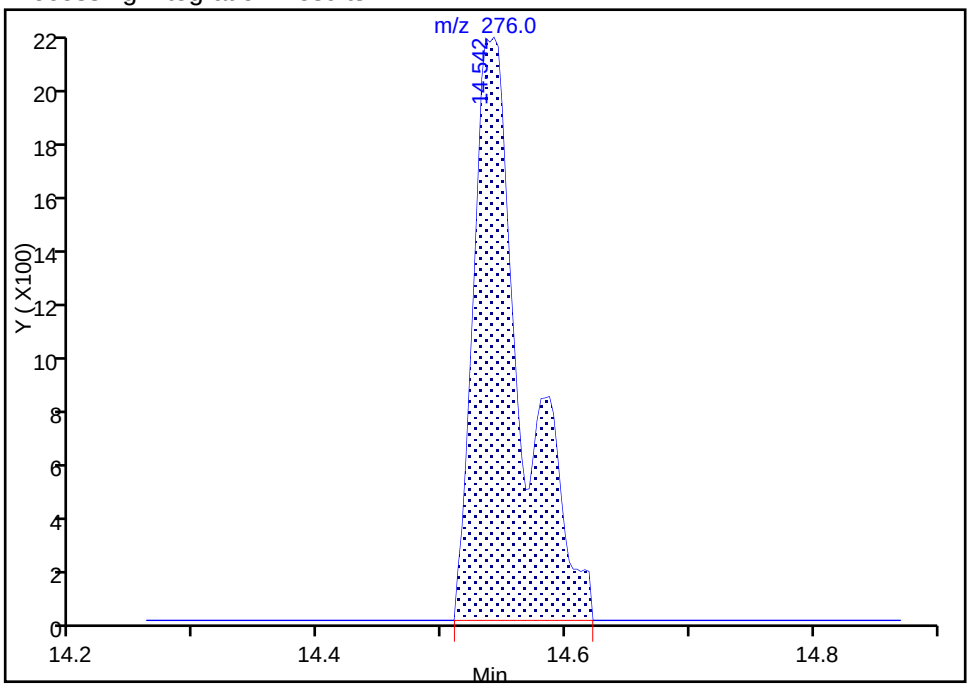
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00463.D
Injection Date: 27-Feb-2018 18:00:30 Instrument ID: CBNAMS18
Lims ID: STD02
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

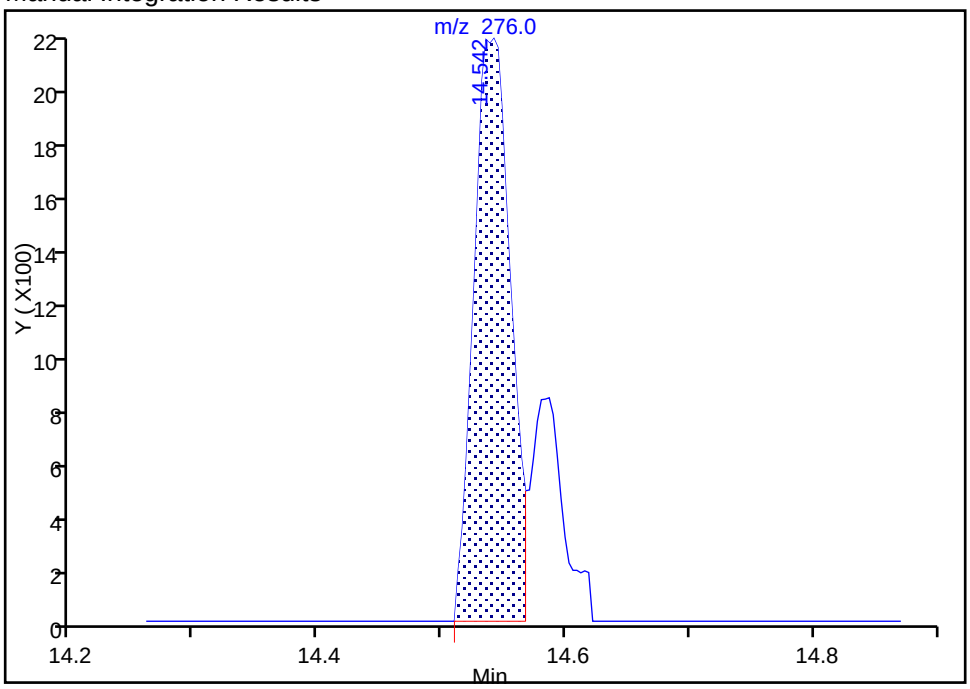
Processing Integration Results

RT: 14.54
Area: 5795
Amount: 0.212666
Amount Units: ug/ml



Manual Integration Results

RT: 14.54
Area: 4367
Amount: 0.170831
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:41:41
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00464.D
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Feb-2018 18:23:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-009
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:26 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:42:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.091	3.085	0.006	92	1685	0.1000	0.0881	
9 Bis(2-chloroethyl)ether	93	4.049	4.049	0.000	89	1768	0.1000	0.0910	
* 14 1,4-Dichlorobenzene-d4	152	4.307	4.308	-0.001	98	106000	8.00	8.00	
20 N-Methylaniline	106	4.680	4.682	-0.002	81	1201	0.1000	0.0961	
22 N-Nitrosodi-n-propylamine	70	4.687	4.691	-0.004	60	1453	0.1000	0.0992	a
25 Hexachloroethane	117	4.792	4.793	-0.001	87	810	0.1000	0.0989	
$ 27 Nitrobenzene-d5	82	4.834	4.835	-0.001	90	2102	0.1000	0.1010	
28 Nitrobenzene	123	4.850	4.851	-0.001	88	746	0.1000	0.0864	
29 n,n'-Dimethylaniline	120	4.853	4.857	-0.004	68	1674	0.1000	0.0968	
37 1,2,4-Trichlorobenzene	180	5.465	5.467	-0.002	91	1583	0.1000	0.1021	
* 38 Naphthalene-d8	136	5.516	5.519	-0.003	99	428828	8.00	8.00	
41 Hexachlorobutadiene	225	5.666	5.669	-0.003	87	807	0.1000	0.1004	
* 64 Acenaphthene-d10	164	7.182	7.187	-0.005	99	164733	8.00	8.00	
82 Hexachlorobenzene	284	8.225	8.229	-0.004	89	738	0.1000	0.0911	
* 87 Phenanthrene-d10	188	8.583	8.587	-0.004	99	282597	8.00	8.00	
$ 96 Terphenyl-d14	244	10.098	10.101	-0.003	96	2516	0.1000	0.0973	
101 Benzo[a]anthracene	228	11.177	11.180	-0.003	97	3301	0.1000	0.1080	
* 102 Chrysene-d12	240	11.186	11.193	-0.007	99	206696	8.00	8.00	
107 Benzo[k]fluoranthene	252	12.549	12.560	-0.011	95	2517	0.1000	0.0827	
108 Benzo[a]pyrene	252	12.948	12.962	-0.014	95	2609	0.1000	0.0924	
* 109 Perylene-d12	264	13.034	13.039	-0.005	95	206763	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.541	14.559	-0.018	93	2145	0.1000	0.0834	M
111 Dibenz(a,h)anthracene	278	14.582	14.597	-0.015	93	2116	0.1000	0.0799	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_BNAL1_00027 Amount Added: 1.00 Units: mL

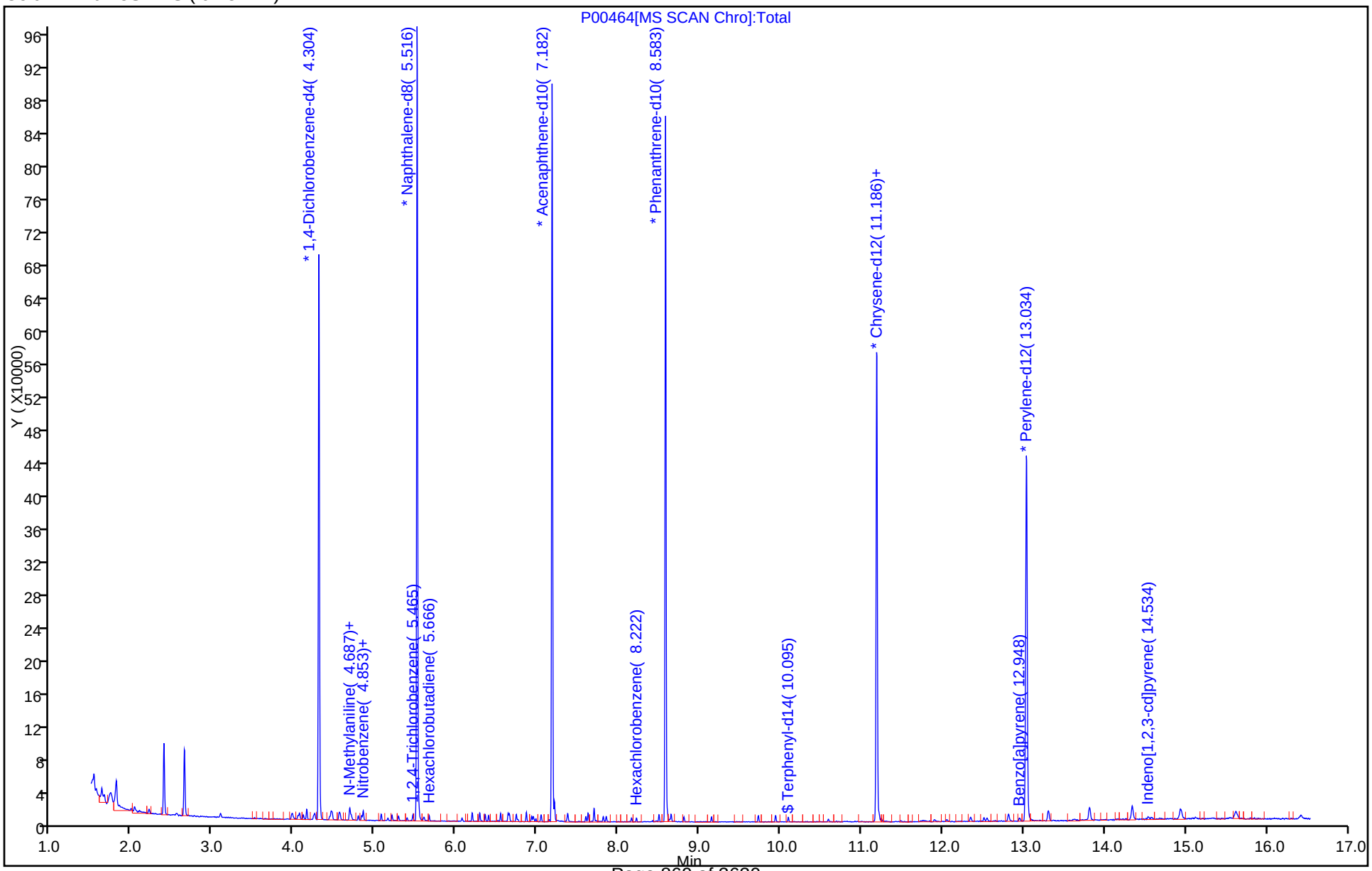
Report Date: 28-Feb-2018 11:40:27 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00464.D

Injection Date:	27-Feb-2018 18:23:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD01			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

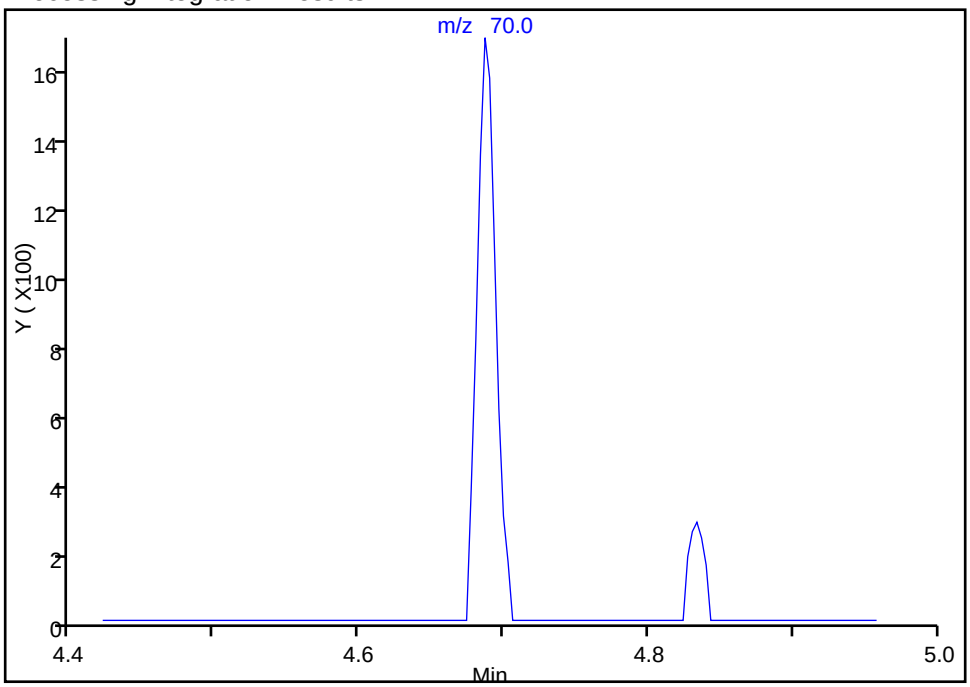
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00464.D
Injection Date: 27-Feb-2018 18:23:30 Instrument ID: CBNAMS18
Lims ID: STD01
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

22 N-Nitrosodi-n-propylamine, CAS: 621-64-7

Signal: 1

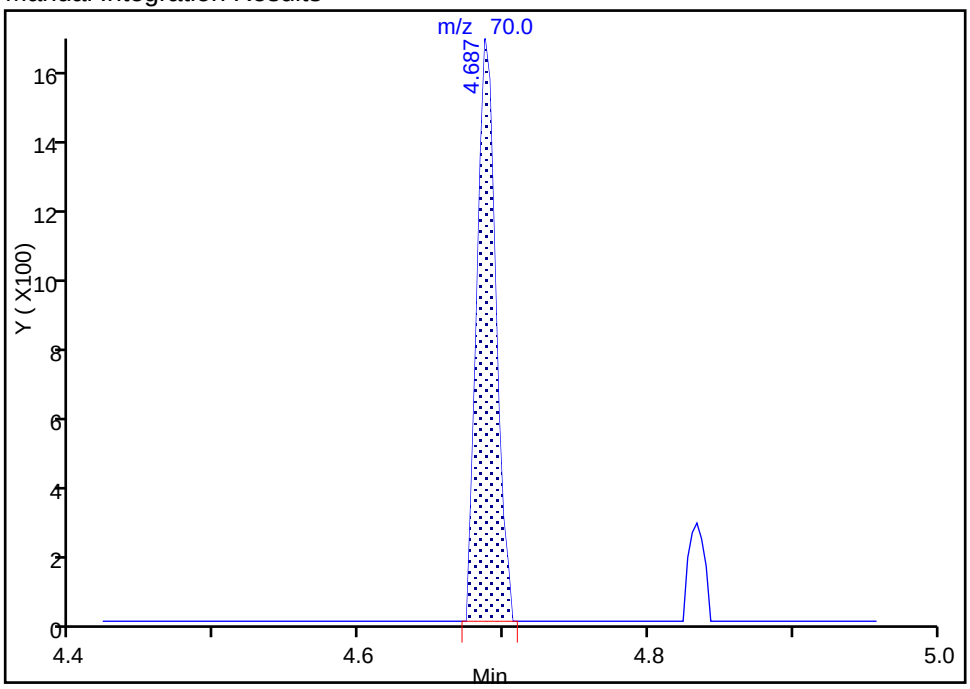
Not Detected
Expected RT: 4.69

Processing Integration Results



Manual Integration Results

RT: 4.69
Area: 1453
Amount: 0.099182
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:42:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

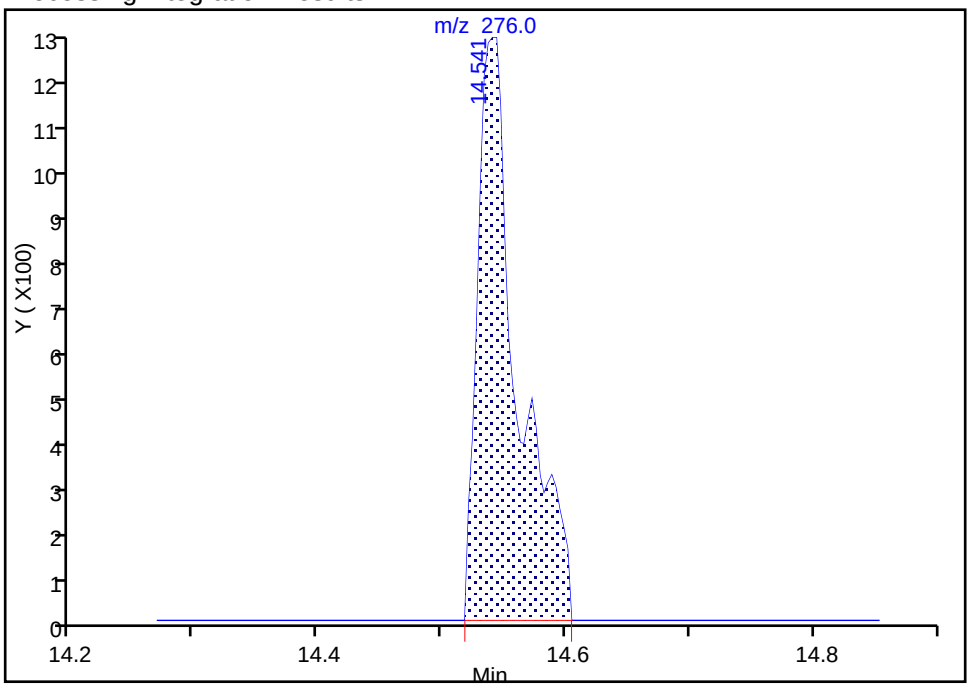
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00464.D
Injection Date: 27-Feb-2018 18:23:30 Instrument ID: CBNAMS18
Lims ID: STD01
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

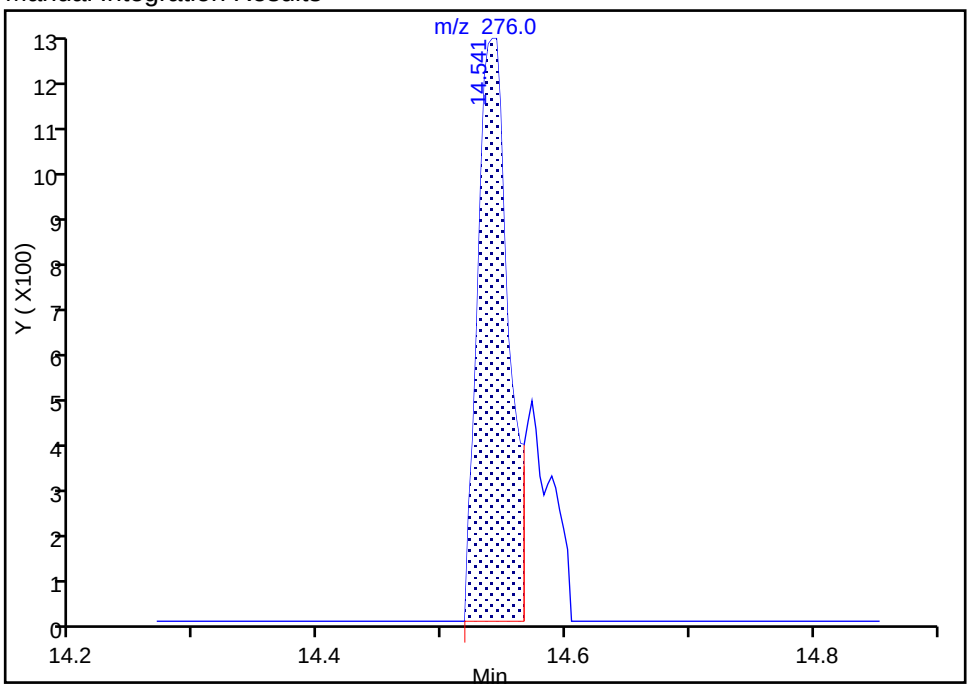
Processing Integration Results

RT: 14.54
Area: 2784
Amount: 0.104939
Amount Units: ug/ml



Manual Integration Results

RT: 14.54
Area: 2145
Amount: 0.083362
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 07:42:41
Audit Action: Manually Integrated Audit Reason: Split Peak

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 18:47 Calibration End Date: 02/27/2018 21:11 Calibration ID: 66776

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD10 460-500035/10	P00465.D
Level 2	STD24 460-500035/11	P00466.D
Level 3	STD16 460-500035/12	P00467.D
Level 4	STD4 460-500035/13	P00468.D
Level 5	STD2 460-500035/14	P00469.D
Level 6	STD1 460-500035/15	P00470.D
Level 7	STD02 460-500035/16	P00471.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	1.4413 1.3000	1.4491 1.1862	1.4163	1.3933	1.3445	Ave		1.3615			0.0100	6.9		20.0			
Caprolactam	0.0792 0.0627	0.0865 0.0524	0.0831	0.0790	0.0692	Ave		0.0732			0.0100	16.8		20.0			
Atrazine	0.1927 0.1710	0.1988 0.1528	0.1960	0.1808	0.1695	Ave		0.1802			0.0100	9.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 500035

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/27/2018 18:47 Calibration End Date: 02/27/2018 21:11 Calibration ID: 66776

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD10 460-500035/10	P00465.D
Level 2	STD24 460-500035/11	P00466.D
Level 3	STD16 460-500035/12	P00467.D
Level 4	STD4 460-500035/13	P00468.D
Level 5	STD2 460-500035/14	P00469.D
Level 6	STD1 460-500035/15	P00470.D
Level 7	STD02 460-500035/16	P00471.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCBd 4	Ave	202619 19115	477614 3401	323546	77529	39227	10.0 1.00	24.0 0.200	16.0	4.00	2.00
Caprolactam	NPT	Ave	44546 3671	112925 591	74334	17140	7900	10.0 1.00	24.0 0.200	16.0	4.00	2.00
Atrazine	PHN	Ave	69713 6568	175494 1157	117373	26617	13024	10.0 1.00	24.0 0.200	16.0	4.00	2.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00465.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Feb-2018 18:47:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-010
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:31 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:43:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.889	3.889	0.000	93	202619	10.0	10.6	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	99	112463	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	449834	8.00	8.00	
42 Caprolactam	113	5.893	5.893	0.000	87	44546	10.0	10.8	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	171209	8.00	8.00	
83 Atrazine	200	8.327	8.327	0.000	85	69713	10.0	10.7	
* 87 Phenanthrene-d10	188	8.583	8.583	0.000	99	289364	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	214875	8.00	8.00	
* 109 Perylene-d12	264	13.037	13.037	0.000	97	220774	8.00	8.00	

Reagents:

SM_BNAL5B_00036 Amount Added: 1.00 Units: mL

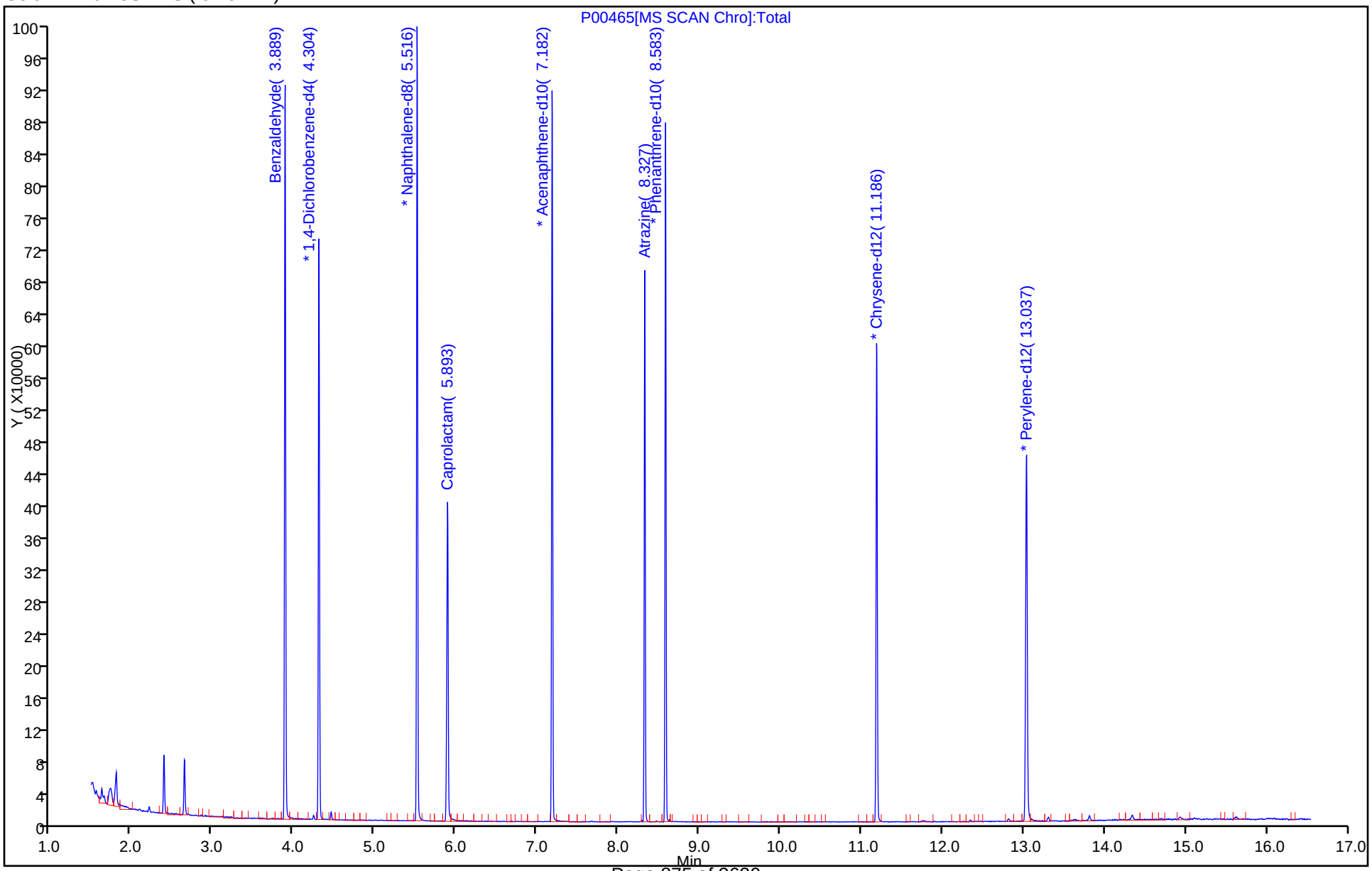
Report Date: 28-Feb-2018 11:40:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00465.D

Injection Date:	27-Feb-2018 18:47:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std10			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00466.D
Lims ID: std24
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Feb-2018 19:11:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-011
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:34 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:43:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.889	3.889	0.000	93	477614	24.0	25.5	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	98	109866	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	435160	8.00	8.00	
42 Caprolactam	113	5.906	5.893	0.013	87	112925	24.0	28.4	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	167272	8.00	8.00	
83 Atrazine	200	8.330	8.327	0.003	86	175494	24.0	26.5	
* 87 Phenanthrene-d10	188	8.583	8.583	0.000	99	294208	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	232476	8.00	8.00	
* 109 Perylene-d12	264	13.037	13.037	0.000	96	214869	8.00	8.00	

Reagents:

SM_BNAL7B_00011 Amount Added: 1.00 Units: mL

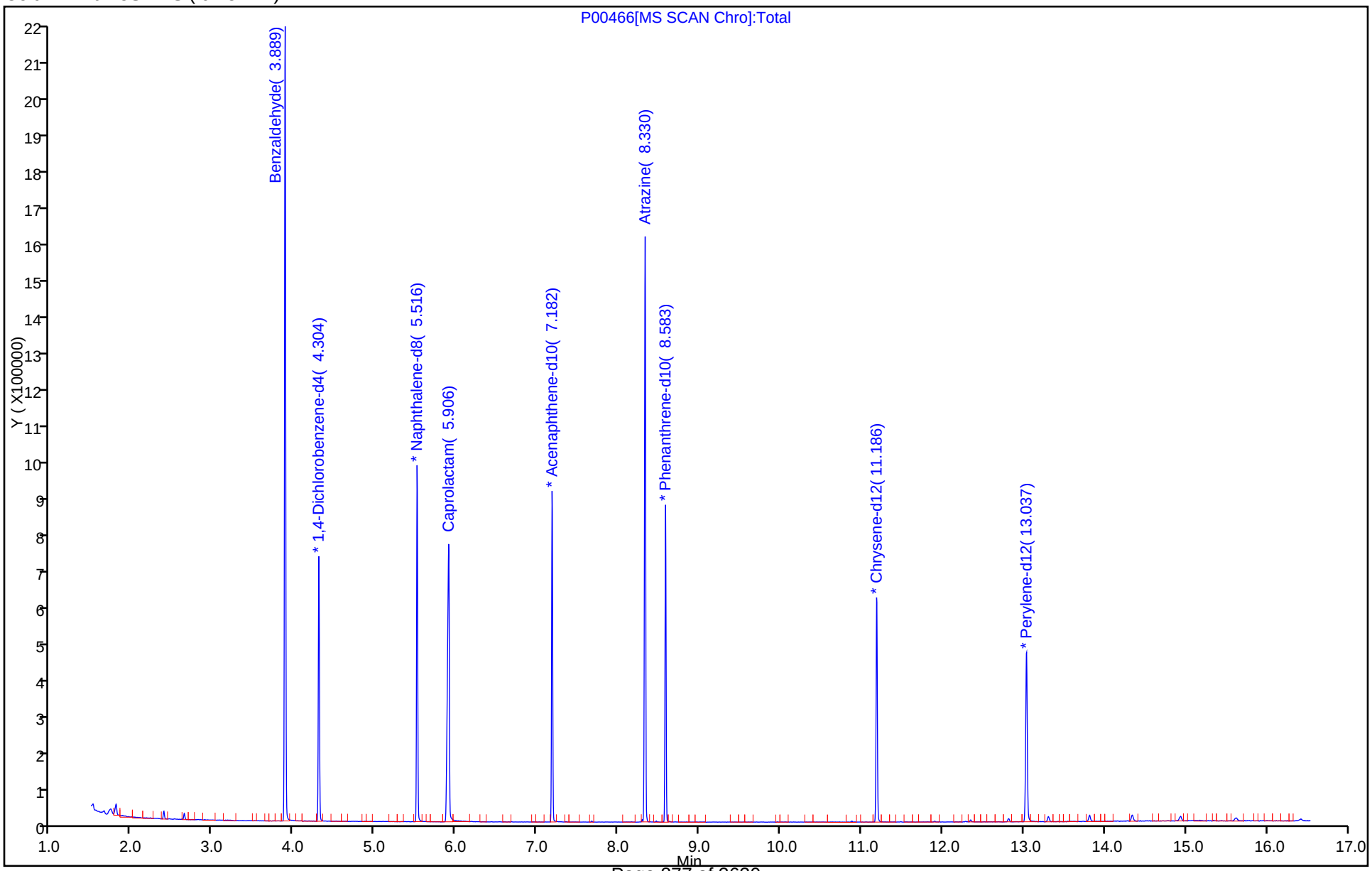
Report Date: 28-Feb-2018 11:40:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00466.D

Injection Date:	27-Feb-2018 19:11:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std24			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00467.D
Lims ID: std16
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Feb-2018 19:35:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-012
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:36 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:43:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.886	3.889	-0.003	93	323546	16.0	16.6	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	99	114226	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	447398	8.00	8.00	
42 Caprolactam	113	5.899	5.893	0.006	87	74334	16.0	18.2	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	98	170364	8.00	8.00	
83 Atrazine	200	8.327	8.327	0.000	85	117373	16.0	17.4	
* 87 Phenanthrene-d10	188	8.583	8.583	0.000	99	299407	8.00	8.00	
* 102 Chrysene-d12	240	11.189	11.186	0.003	98	241493	8.00	8.00	
* 109 Perylene-d12	264	13.034	13.037	-0.003	95	221058	8.00	8.00	

Reagents:

SM_BNAL6B_00018 Amount Added: 1.00 Units: mL

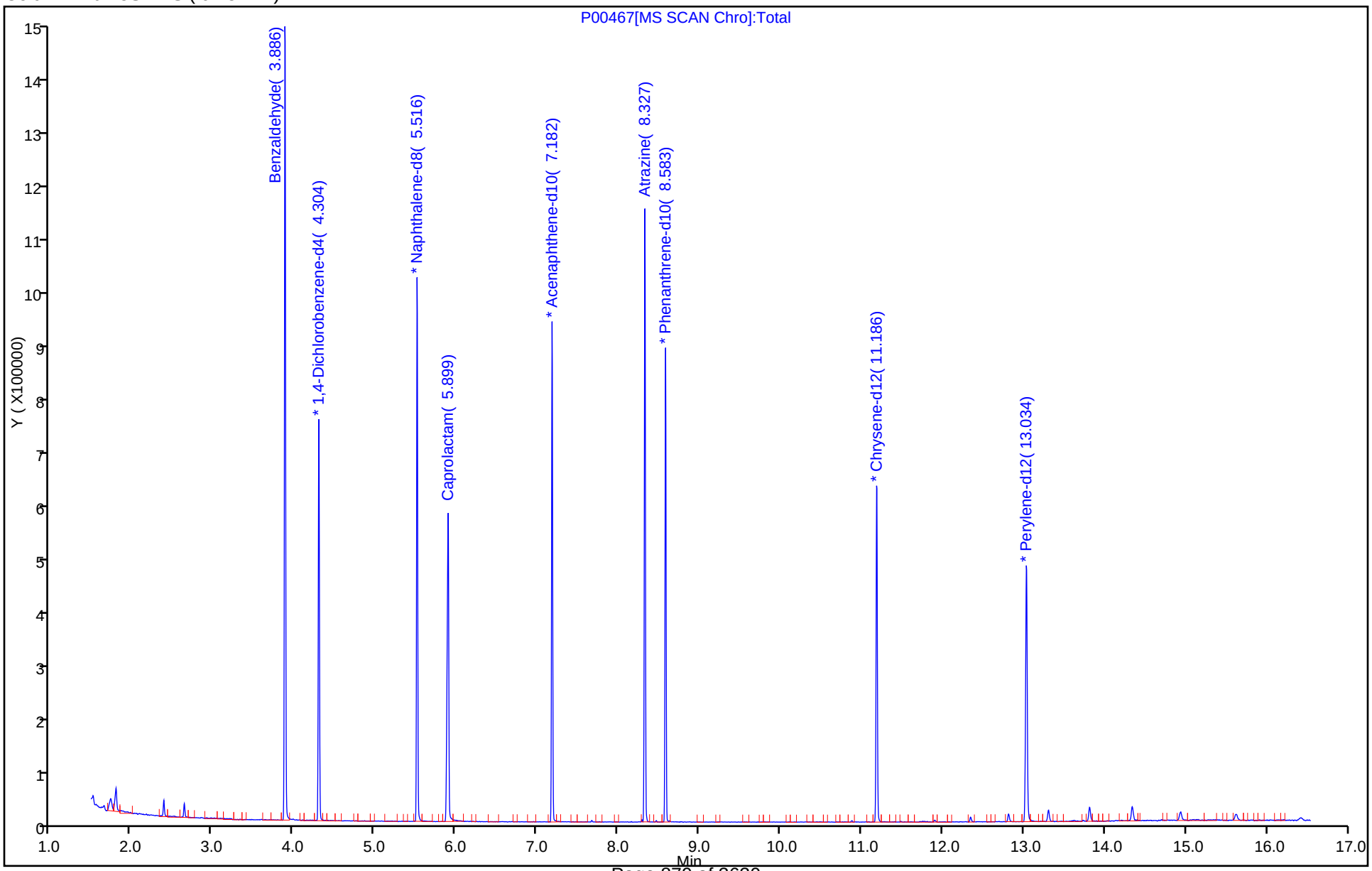
Report Date: 28-Feb-2018 11:40:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00467.D

Injection Date:	27-Feb-2018 19:35:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std16			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00468.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Feb-2018 19:59:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-013
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:39 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:43:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.886	3.889	-0.003	94	77529	4.00	4.09	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	99	111285	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	434016	8.00	8.00	
42 Caprolactam	113	5.886	5.893	-0.007	87	17140	4.00	4.32	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	167790	8.00	8.00	
83 Atrazine	200	8.324	8.327	-0.003	85	26617	4.00	4.01	
* 87 Phenanthrene-d10	188	8.582	8.583	-0.001	99	294429	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	230918	8.00	8.00	
* 109 Perylene-d12	264	13.037	13.037	0.000	96	216020	8.00	8.00	

Reagents:

SM_BNAL4B_00027 Amount Added: 1.00 Units: mL

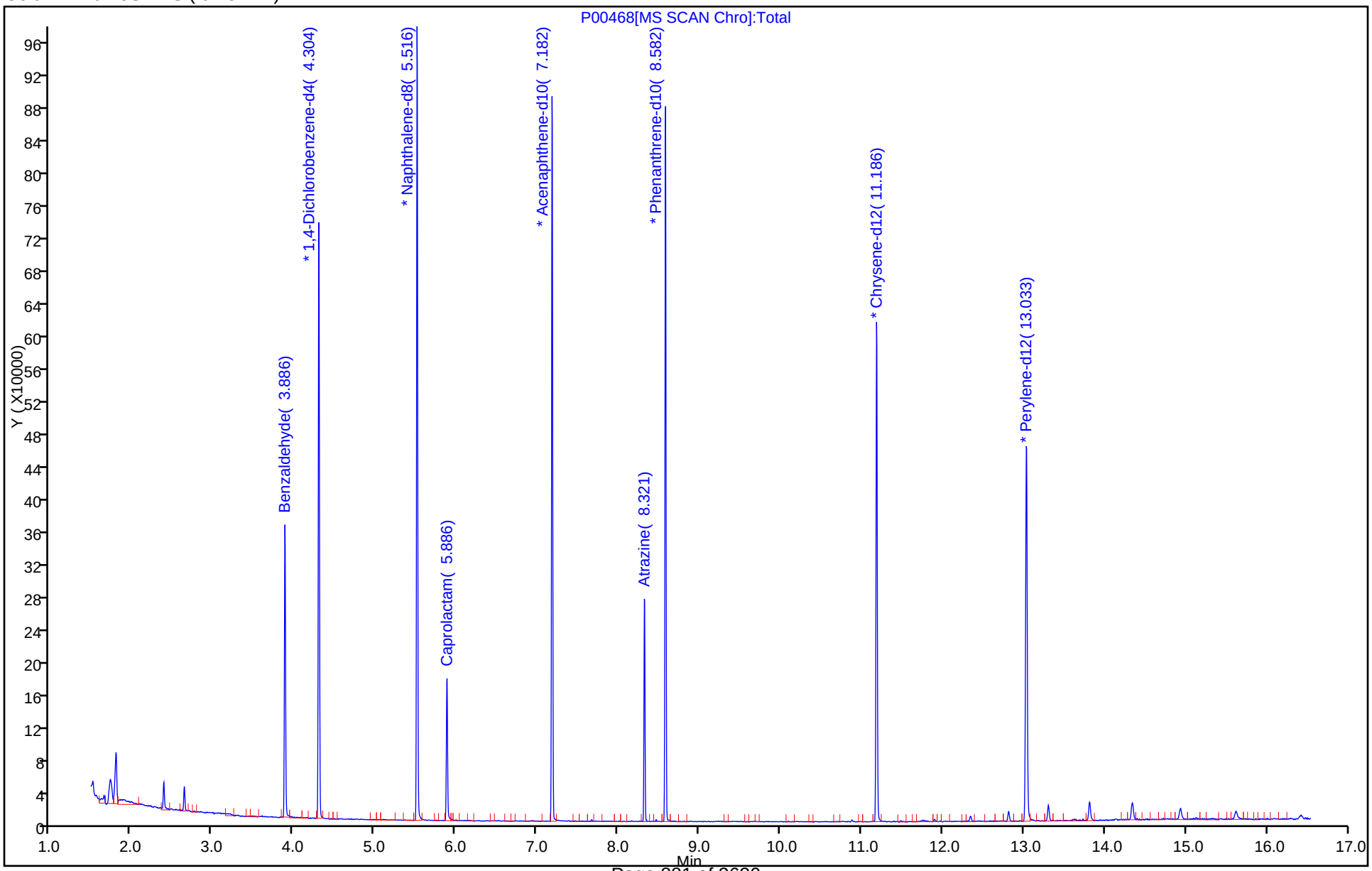
Report Date: 28-Feb-2018 11:40:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00468.D

Injection Date:	27-Feb-2018 19:59:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std4			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00469.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Feb-2018 20:23:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-014
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:42 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:43:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.889	3.889	0.000	94	39227	2.00	1.98	
* 14 1,4-Dichlorobenzene-d4	152	4.307	4.304	0.003	98	116703	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	456690	8.00	8.00	
42 Caprolactam	113	5.883	5.893	-0.010	86	7900	2.00	1.89	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	100	178100	8.00	8.00	
83 Atrazine	200	8.321	8.327	-0.006	84	13024	2.00	1.88	
* 87 Phenanthrene-d10	188	8.583	8.583	0.000	99	307359	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	241542	8.00	8.00	
* 109 Perylene-d12	264	13.037	13.037	0.000	97	230800	8.00	8.00	

Reagents:

SM_BNAL3B_00018 Amount Added: 1.00 Units: mL

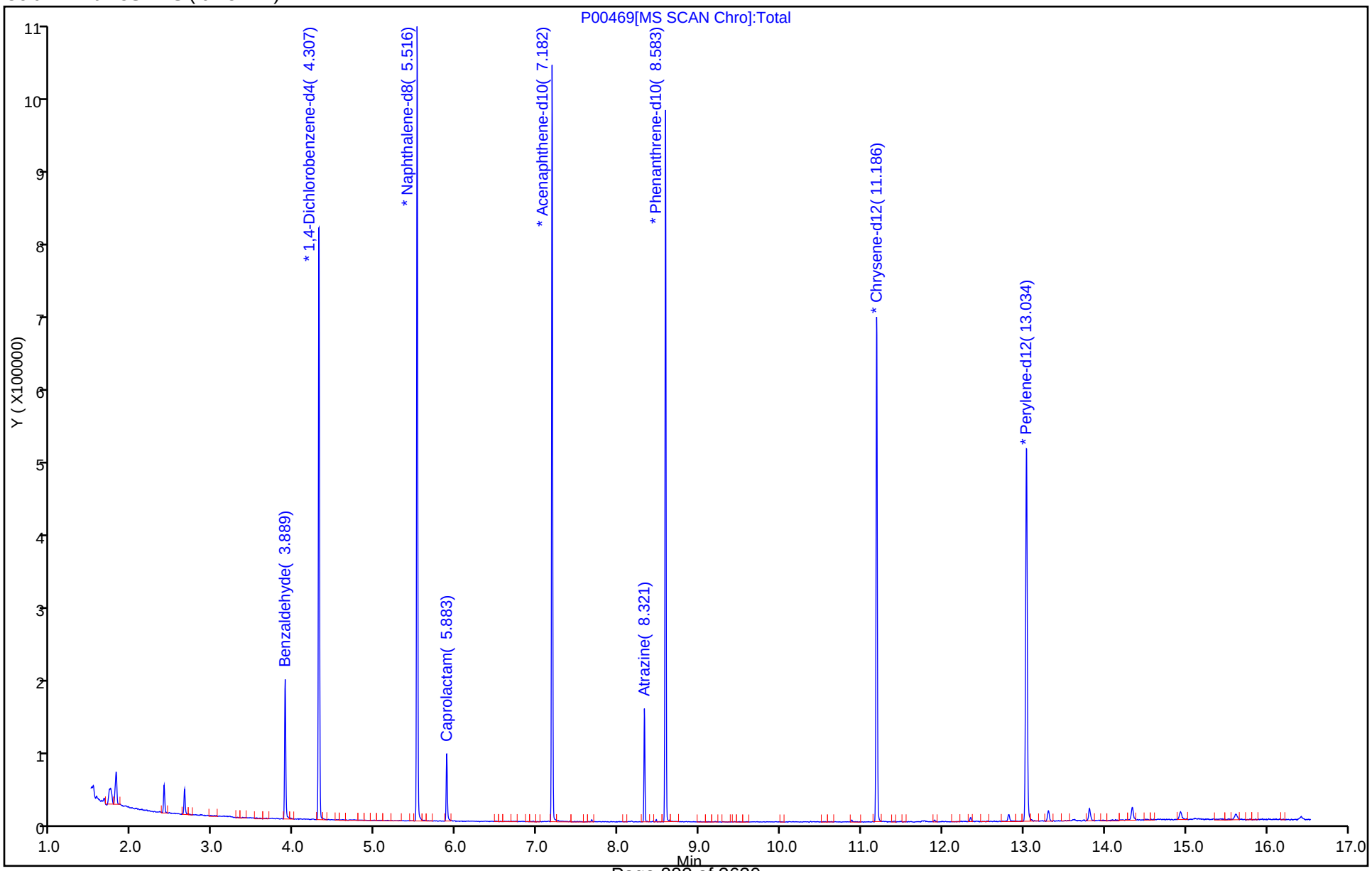
Report Date: 28-Feb-2018 11:40:43 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00469.D

Injection Date:	27-Feb-2018 20:23:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std2			Worklist Smp#:	14
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00470.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Feb-2018 20:47:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-015
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:45 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:44:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.889	3.889	0.000	92	19115	1.00	0.9548	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	99	117635	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	468223	8.00	8.00	
42 Caprolactam	113	5.880	5.893	-0.013	86	3671	1.00	0.8574	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	178571	8.00	8.00	
83 Atrazine	200	8.321	8.327	-0.006	87	6568	1.00	0.9485	
* 87 Phenanthrene-d10	188	8.582	8.583	-0.001	99	307347	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	243864	8.00	8.00	
* 109 Perylene-d12	264	13.033	13.037	-0.004	96	230570	8.00	8.00	

Reagents:

SM_BNAL2B_00022 Amount Added: 1.00 Units: mL

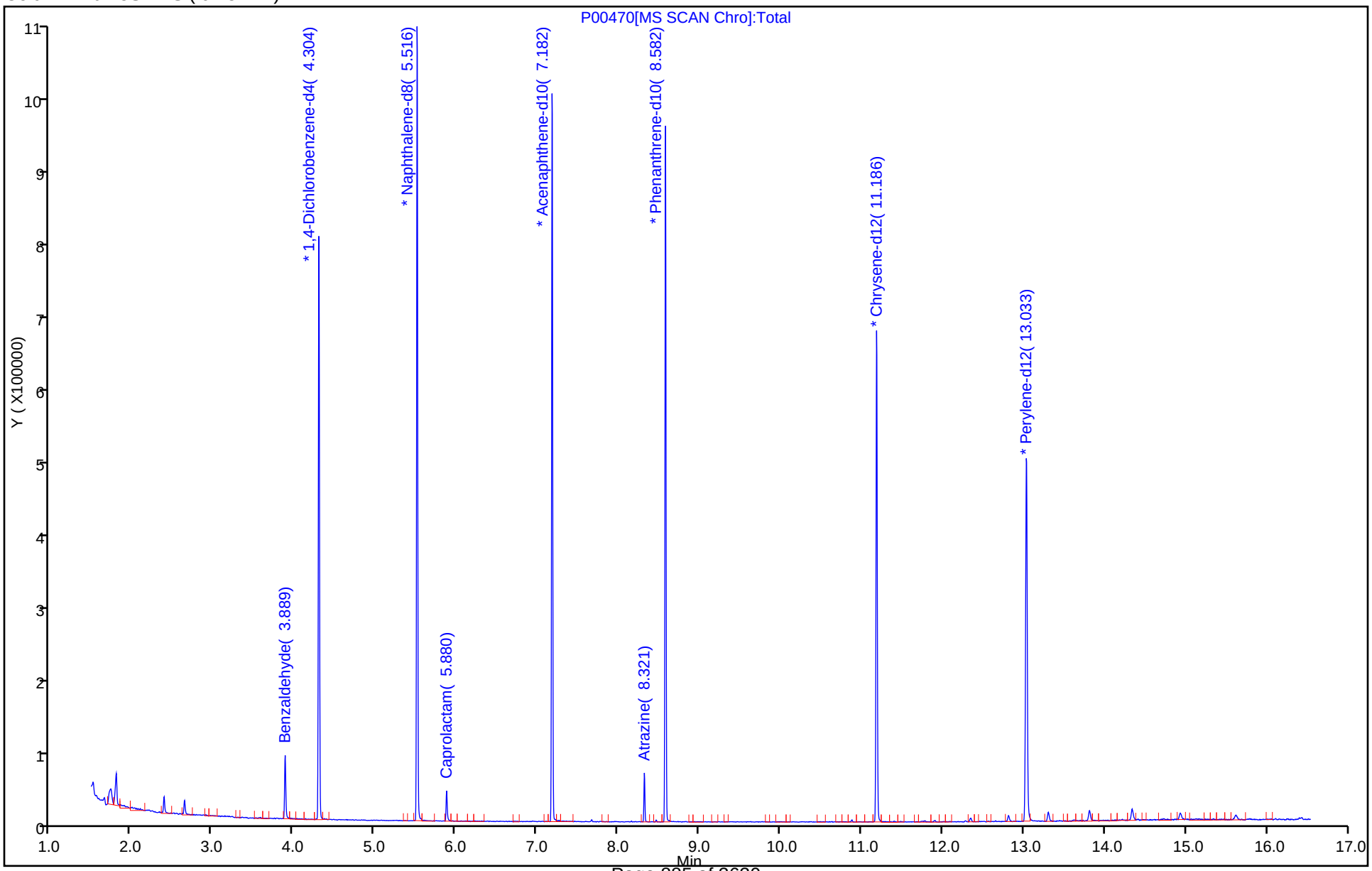
Report Date: 28-Feb-2018 11:40:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00470.D

Injection Date:	27-Feb-2018 20:47:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std1			Worklist Smp#:	15
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D
Lims ID: std02
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Feb-2018 21:11:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-016
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:48 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 07:44:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.892	3.889	0.003	89	3401	0.2000	0.1742	
* 14 1,4-Dichlorobenzene-d4	152	4.307	4.304	0.003	98	114686	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	451241	8.00	8.00	
42 Caprolactam	113	5.880	5.893	-0.013	82	591	0.2000	0.1432	
* 64 Acenaphthene-d10	164	7.181	7.182	-0.001	99	172540	8.00	8.00	
83 Atrazine	200	8.320	8.327	-0.007	77	1157	0.2000	0.1696	
* 87 Phenanthrene-d10	188	8.582	8.583	-0.001	99	302848	8.00	8.00	
* 102 Chrysene-d12	240	11.188	11.186	0.002	98	238833	8.00	8.00	
* 109 Perylene-d12	264	13.036	13.037	-0.001	97	221980	8.00	8.00	

Reagents:

SM_BNAL1B_00020 Amount Added: 1.00 Units: mL

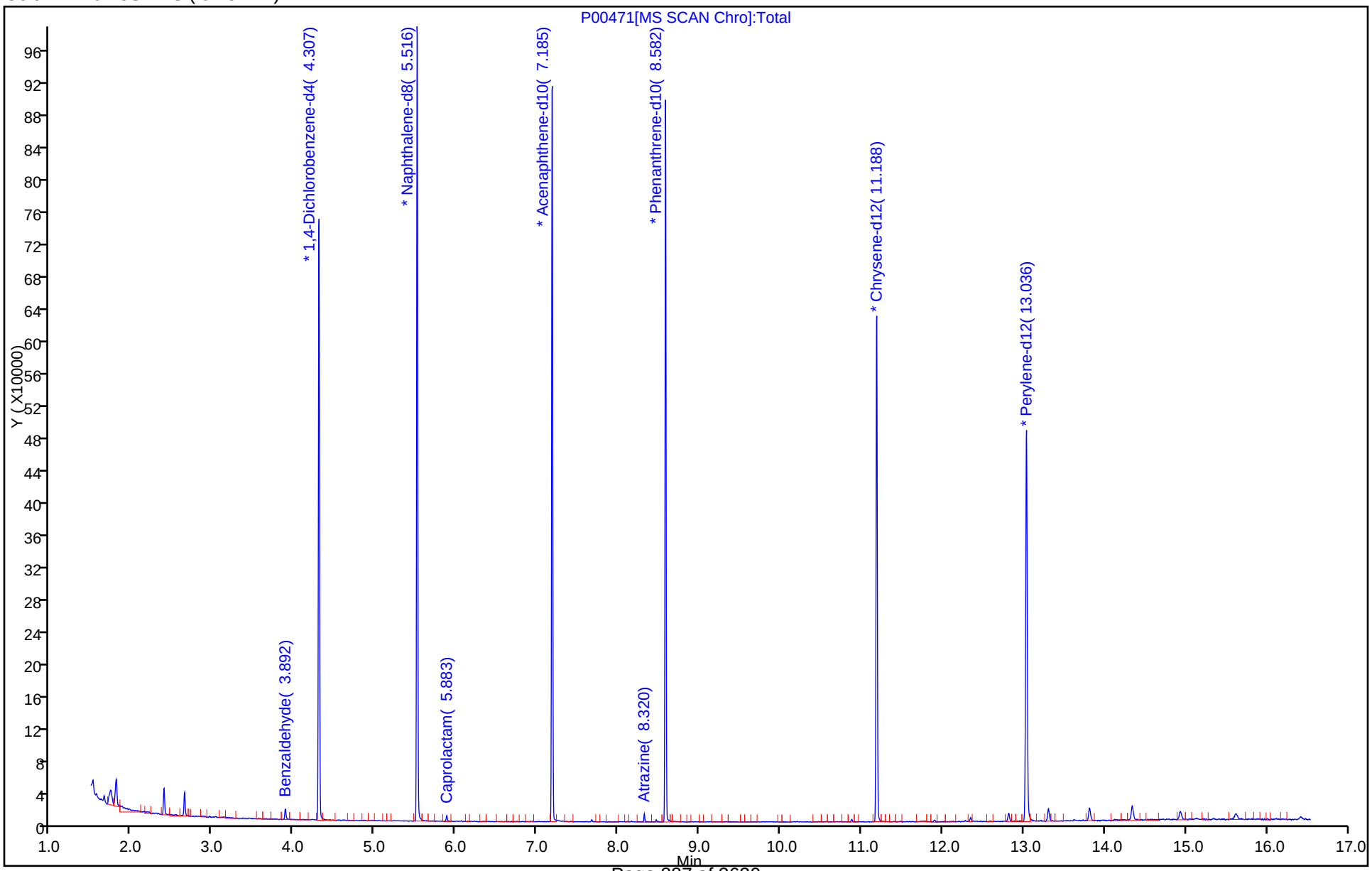
Report Date: 28-Feb-2018 11:40:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Injection Date:	27-Feb-2018 21:11:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	std02			Worklist Smp#:	16
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504609/2 Instrument ID (1): CBNAMS18

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/19/2018 20:34

ANALYTE	RT	RESOLUTION (%)
1,4-Dioxane	1.62	100.0
Pyridine	1.86	100.0
2-Fluorophenol (Surr)	2.94	100.0
Phenol-d5 (Surr)	3.84	100.0
Phenol	3.85	100.0
Aniline	3.85	100.0
Bis(2-chloroethyl)ether	3.92	100.0
2-Chlorophenol	3.98	100.0
1,4-Dichlorobenzene	4.19	100.0
Benzyl alcohol	4.31	100.0
1,2-Dichlorobenzene	4.34	100.0
2-Methylphenol	4.43	100.0
2,2'-oxybis[1-chloropropane]	4.44	100.0
N-Methylaniline	4.55	100.0
Acetophenone	4.56	100.0
N-Nitrosodi-n-propylamine	4.56	100.0
4-Methylphenol	4.58	100.0
3 & 4 Methylphenol	4.58	100.0
Hexachloroethane	4.66	100.0
Nitrobenzene-d5 (Surr)	4.71	100.0
Nitrobenzene	4.72	100.0
n,n'-Dimethylaniline	4.73	100.0
Isophorone	4.95	100.0
2-Nitrophenol	5.03	100.0
2,4-Dimethylphenol	5.09	100.0
Bis(2-chloroethoxy)methane	5.17	100.0
Benzoic acid	5.20	100.0
2,4-Dichlorophenol	5.27	100.0
1,2,4-Trichlorobenzene	5.34	100.0
Naphthalene	5.42	100.0
4-Chloroaniline	5.47	100.0
Hexachlorobutadiene	5.54	100.0
4-Chloro-3-methylphenol	5.96	100.0
2-Methylnaphthalene	6.08	100.0
1-Methylnaphthalene	6.17	100.0
Hexachlorocyclopentadiene	6.24	100.0
1,2,4,5-Tetrachlorobenzene	6.24	100.0
2-tertbutyl-4-methylphenol	6.29	100.0
2,4,6-Trichlorophenol	6.36	100.0
2,4,5-Trichlorophenol	6.39	100.0
2-Fluorobiphenyl	6.43	100.0
1,1'-Biphenyl	6.52	100.0
2-Chloronaphthalene	6.54	100.0
Phenyl ether	6.63	100.0
2-Nitroaniline	6.64	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504609/2 Instrument ID (1): CBNAMS18

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/19/2018 20:34

ANALYTE	RT	RESOLUTION (%)
1,3-Dimethylnaphthalene	6.75	100.0
Dimethyl phthalate	6.83	100.0
Coumarin	6.84	100.0
2,6-Dinitrotoluene	6.87	100.0
Acenaphthylene	6.93	100.0
3-Nitroaniline	7.04	100.0
Acenaphthene	7.10	100.0
3,5-di-tert-butyl-4-hydroxytol	7.10	100.0
2,4-Dinitrophenol	7.13	100.0
4-Nitrophenol	7.23	100.0
2,4-Dinitrotoluene	7.25	100.0
Dibenzofuran	7.26	100.0
2,3,4,6-Tetrachlorophenol	7.39	100.0
Diethyl phthalate	7.50	100.0
Fluorene	7.59	100.0
4-Chlorophenyl phenyl ether	7.59	100.0
4-Nitroaniline	7.62	100.0
4,6-Dinitro-2-methylphenol	7.64	100.0
N-Nitrosodiphenylamine	7.70	100.0
2,4,6-Tribromophenol (Surr)	7.82	100.0
4-Bromophenyl phenyl ether	8.05	100.0
Hexachlorobenzene	8.11	100.0
Pentachlorophenol	8.30	100.0
Pentachloronitrobenzene	8.31	100.0
n-Octadecane	8.39	100.0
Phenanthrene	8.49	100.0
Anthracene	8.54	100.0
Carbazole	8.70	100.0
Di-n-butyl phthalate	9.04	100.0
Fluoranthene	9.62	100.0
Benzidine	9.75	100.0
Pyrene	9.83	100.0
Bisphenol-A	9.90	100.0
Terphenyl-d14 (Surr)	9.99	100.0
Butyl benzyl phthalate	10.48	100.0
Carbamazepine	10.58	100.0
3,3'-Dichlorobenzidine	11.04	100.0
Benzo[a]anthracene	11.05	100.0
Chrysene	11.09	100.0
Bis(2-ethylhexyl) phthalate	11.13	100.0
Di-n-octyl phthalate	11.92	100.0
Benzo[b]fluoranthene	12.36	100.0
Benzo[k]fluoranthene	12.40	100.0
Benzo[a]pyrene	12.79	100.0
Indeno[1,2,3-cd]pyrene	14.35	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504609/2 Instrument ID (1): CBNAMS18

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/19/2018 20:34

ANALYTE	RT	RESOLUTION (%)
Dibenz(a,h)anthracene	14.39	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505174/2 Instrument ID (1): CBNAMS12

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/22/2018 08:43

ANALYTE	RT	RESOLUTION (%)
1,4-Dioxane	1.88	100.0
N-Nitrosodimethylamine	2.12	100.0
Pyridine	2.15	100.0
2-Fluorophenol (Surr)	3.33	100.0
Phenol-d5 (Surr)	4.22	100.0
Phenol	4.23	100.0
Aniline	4.25	100.0
Bis(2-chloroethyl)ether	4.31	100.0
2-Chlorophenol	4.37	100.0
n-Decane	4.42	100.0
1,3-Dichlorobenzene	4.52	100.0
1,4-Dichlorobenzene	4.58	100.0
1,2-Dichlorobenzene	4.73	100.0
2-Methylphenol	4.80	100.0
2,2'-oxybis[1-chloropropane]	4.82	100.0
Acetophenone	4.95	100.0
4-Methylphenol	4.95	100.0
N-Nitrosodi-n-propylamine	4.95	100.0
3 & 4 Methylphenol	4.95	100.0
Hexachloroethane	5.05	100.0
Nitrobenzene-d5 (Surr)	5.09	100.0
Nitrobenzene	5.11	100.0
n,n'-Dimethylaniline	5.12	100.0
Isophorone	5.33	100.0
2-Nitrophenol	5.41	100.0
2,4-Dimethylphenol	5.46	100.0
Bis(2-chloroethoxy)methane	5.54	100.0
Benzoic acid	5.56	100.0
2,4-Dichlorophenol	5.65	100.0
1,2,4-Trichlorobenzene	5.72	100.0
Naphthalene	5.79	100.0
4-Chloroaniline	5.85	100.0
Hexachlorobutadiene	5.92	100.0
4-Chloro-3-methylphenol	6.31	100.0
2-Methylnaphthalene	6.45	100.0
1-Methylnaphthalene	6.55	100.0
Hexachlorocyclopentadiene	6.61	100.0
1,2,4,5-Tetrachlorobenzene	6.62	100.0
2-tertbutyl-4-methylphenol	6.65	100.0
2,4,6-Trichlorophenol	6.72	100.0
2,4,5-Trichlorophenol	6.76	100.0
2-Fluorobiphenyl	6.80	100.0
1,1'-Biphenyl	6.90	100.0
2-Chloronaphthalene	6.92	100.0
Phenyl ether	7.00	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505174/2 Instrument ID (1): CBNAMS12

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/22/2018 08:43

ANALYTE	RT	RESOLUTION (%)
2-Nitroaniline	7.01	100.0
1,3-Dimethylnaphthalene	7.12	100.0
Dimethyl phthalate	7.19	100.0
Coumarin	7.20	100.0
2,6-Dinitrotoluene	7.24	100.0
Acenaphthylene	7.30	100.0
3-Nitroaniline	7.40	100.0
3,5-di-tert-butyl-4-hydroxytol	7.47	100.0
Acenaphthene	7.48	100.0
2,4-Dinitrophenol	7.50	100.0
4-Nitrophenol	7.57	100.0
2,4-Dinitrotoluene	7.62	100.0
Dibenzofuran	7.63	100.0
2,3,4,6-Tetrachlorophenol	7.76	100.0
Diethyl phthalate	7.86	100.0
4-Chlorophenyl phenyl ether	7.96	100.0
Fluorene	7.96	100.0
4-Nitroaniline	7.98	100.0
4,6-Dinitro-2-methylphenol	8.02	100.0
N-Nitrosodiphenylamine	8.08	100.0
1,2-Diphenylhydrazine	8.11	100.0
2,4,6-Tribromophenol (Surr)	8.19	100.0
4-Bromophenyl phenyl ether	8.42	100.0
Hexachlorobenzene	8.49	100.0
Pentachlorophenol	8.68	100.0
Pentachloronitrobenzene	8.69	100.0
Phenanthrene	8.87	100.0
Anthracene	8.92	100.0
Carbazole	9.07	100.0
Di-n-butyl phthalate	9.40	100.0
Fluoranthene	9.99	100.0
Pyrene	10.20	100.0
Bisphenol-A	10.26	100.0
Terphenyl-d14 (Surr)	10.36	100.0
Butyl benzyl phthalate	10.88	100.0
Carbamazepine	10.99	100.0
3,3'-Dichlorobenzidine	11.48	100.0
Benzo[a]anthracene	11.50	100.0
Chrysene	11.55	100.0
Bis(2-ethylhexyl) phthalate	11.57	100.0
Di-n-octyl phthalate	12.45	100.0
Benzo[b]fluoranthene	12.93	100.0
Benzo[k]fluoranthene	12.97	100.0
Benzo[a]pyrene	13.40	100.0
Indeno[1,2,3-cd]pyrene	15.14	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505174/2 Instrument ID (1): CBNAMS12

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/22/2018 08:43

ANALYTE	RT	RESOLUTION (%)
Dibenz(a,h)anthracene	15.19	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503804/18 Calibration Date: 03/15/2018 21:05

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077542.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5241	0.5179	0.0100	24700	25000	-1.2	30.0
N-Nitrosodimethylamine	Ave	0.8892	0.8860		24900	25000	-0.4	30.0
Pyridine	Ave	1.519	1.528		50300	50000	0.6	30.0
Phenol	Ave	1.780	1.703	0.8000	23900	25000	-4.3	30.0
Aniline	Ave	2.158	2.143		24800	25000	-0.7	30.0
Bis(2-chloroethyl)ether	Ave	1.333	1.350	0.7000	25300	25000	1.2	30.0
2-Chlorophenol	Ave	1.380	1.399	0.8000	25300	25000	1.4	30.0
n-Decane	Ave	1.900	1.987	0.0100	26100	25000	4.5	30.0
1,3-Dichlorobenzene	Ave	1.583	1.606		25400	25000	1.5	30.0
1,4-Dichlorobenzene	Ave	1.595	1.631		25600	25000	2.3	30.0
Benzyl alcohol	Ave	0.9285	0.9325	0.0100	25100	25000	0.4	30.0
1,2-Dichlorobenzene	Ave	1.515	1.557		25700	25000	2.8	30.0
2-Methylphenol	Ave	1.266	1.285	0.7000	25400	25000	1.5	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.540	2.648	0.0100	26100	25000	4.2	30.0
3 & 4 Methylphenol	Ave	1.451	1.507		26000	25000	3.9	30.0
4-Methylphenol	Ave	1.451	1.507	0.6000	26000	25000	3.9	30.0
Acetophenone	Ave	1.990	2.092	0.0100	26300	25000	5.1	30.0
N-Nitrosodi-n-propylamine	Ave	1.080	1.121	0.5000	25900	25000	3.8	30.0
Hexachloroethane	Ave	0.6154	0.6201	0.3000	25200	25000	0.8	30.0
Nitrobenzene	Ave	0.6531	0.6454	0.2000	24700	25000	-1.2	30.0
n,n'-Dimethylaniline	Ave	2.062	2.234	0.0100	27100	25000	8.4	30.0
Isophorone	Ave	0.6446	0.6668	0.4000	25900	25000	3.4	30.0
2-Nitrophenol	Ave	0.1636	0.1457	0.1000	22300	25000	-11.0	30.0
2,4-Dimethylphenol	Ave	0.3010	0.3032	0.2000	25200	25000	0.7	30.0
Benzoic acid	Qua		0.1427		23500	25000	-6.1	30.0
Bis(2-chloroethoxy)methane	Ave	0.4114	0.4228	0.3000	25700	25000	2.7	30.0
2,4-Dichlorophenol	Ave	0.2828	0.2897	0.2000	25600	25000	2.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3167	0.3194		25200	25000	0.8	30.0
Naphthalene	Ave	0.996	1.017	0.7000	25500	25000	2.0	30.0
4-Chloroaniline	Ave	0.4311	0.4317	0.0100	25000	25000	0.1	30.0
Hexachlorobutadiene	Ave	0.1713	0.1757	0.0100	25700	25000	2.6	30.0
4-Chloro-3-methylphenol	Ave	0.2841	0.2896		25500	25000	1.9	30.0
2-Methylnaphthalene	Ave	0.6716	0.6889	0.4000	25600	25000	2.6	30.0
1-Methylnaphthalene	Ave	0.6392	0.6508	0.0100	25500	25000	1.8	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6583	0.6565	0.0100	24900	25000	-0.3	30.0
Hexachlorocyclopentadiene	Ave	0.4163	0.3640	0.0500	21900	25000	-12.6	30.0
2-tertbutyl-4-methylphenol	Ave	0.4175	0.4401	0.0100	26400	25000	5.4	30.0
2,4,6-Trichlorophenol	Ave	0.3998	0.4384	0.2000	27400	25000	9.7	30.0
2,4,5-Trichlorophenol	Ave	0.4725	0.4402	0.2000	23300	25000	-6.8	30.0
1,1'-Biphenyl	Ave	1.645	1.674	0.0100	25400	25000	1.7	30.0
2-Chloronaphthalene	Ave	1.299	1.307	0.8000	25200	25000	0.7	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503804/18 Calibration Date: 03/15/2018 21:05

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077542.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8182	0.8560	0.0100	26200	25000	4.6	30.0
2-Nitroaniline	Ave	0.4817	0.4777	0.0100	24800	25000	-0.8	30.0
1,3-Dimethylnaphthalene	Ave	1.032	1.067	0.0100	25800	25000	3.4	30.0
Dimethyl phthalate	Ave	1.479	1.518	0.0100	25700	25000	2.6	30.0
Coumarin	Ave	0.2511	0.2635	0.0100	26200	25000	4.9	30.0
2,6-Dinitrotoluene	Ave	0.2894	0.3108	0.2000	26800	25000	7.4	30.0
Acenaphthylene	Ave	1.953	1.981	0.9000	25400	25000	1.4	30.0
3-Nitroaniline	Ave	0.3580	0.3505	0.0100	24500	25000	-2.1	30.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.071	1.101	0.0100	25700	25000	2.8	30.0
Acenaphthene	Ave	1.336	1.373	0.9000	25700	25000	2.8	30.0
2,4-Dinitrophenol	Qua		0.1240	0.0100	45800	50000	-8.3	30.0
4-Nitrophenol	Ave	0.2917	0.2982	0.0100	51100	50000	2.2	30.0
2,4-Dinitrotoluene	Ave	0.3829	0.4075	0.2000	26600	25000	6.4	30.0
Dibenzofuran	Ave	1.827	1.868	0.8000	25600	25000	2.2	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3516	0.3480	0.0100	24700	25000	-1.0	30.0
Diethyl phthalate	Ave	1.503	1.526	0.0100	25400	25000	1.5	30.0
Fluorene	Ave	1.478	1.511	0.9000	25600	25000	2.2	30.0
4-Chlorophenyl phenyl ether	Ave	0.6792	0.6937	0.4000	25500	25000	2.1	30.0
4-Nitroaniline	Ave	0.3792	0.3780	0.0100	24900	25000	-0.3	30.0
4,6-Dinitro-2-methylphenol	Qua		0.0866	0.0100	48900	50000	-2.3	30.0
N-Nitrosodiphenylamine	Ave	0.5446	0.5436	0.0100	25000	25000	-0.2	30.0
1,2-Diphenylhydrazine	Ave	0.8166	0.8210	0.0100	25100	25000	0.5	30.0
4-Bromophenyl phenyl ether	Ave	0.2180	0.2207	0.1000	25300	25000	1.2	30.0
Hexachlorobenzene	Ave	0.2423	0.2431	0.1000	25100	25000	0.3	30.0
Pentachlorophenol	Ave	0.1305	0.1371	0.0500	52500	50000	5.0	30.0
Pentachloronitrobenzene	Ave	0.0967	0.1001	0.0100	25900	25000	3.5	30.0
n-Octadecane	Ave	0.6383	0.6599	0.0100	25800	25000	3.4	30.0
Phenanthrene	Ave	1.145	1.151	0.7000	25100	25000	0.5	30.0
Anthracene	Ave	1.185	1.211	0.7000	25500	25000	2.1	30.0
Carbazole	Ave	1.080	1.094	0.0100	25300	25000	1.4	30.0
Di-n-butyl phthalate	Ave	1.321	1.341	0.0100	25400	25000	1.5	30.0
Fluoranthene	Ave	1.211	1.230	0.6000	25400	25000	1.6	30.0
Benzidine	Lin2		0.7472		25700	25000	2.7	30.0
Pyrene	Ave	1.317	1.352	0.6000	25700	25000	2.7	30.0
Bisphenol-A	Ave	0.4992	0.5494		27500	25000	10.1	30.0
Butyl benzyl phthalate	Ave	0.5772	0.5801	0.0100	25100	25000	0.5	30.0
Carbamazepine	Ave	0.4988	0.5156	0.0100	25800	25000	3.4	30.0
3,3'-Dichlorobenzidine	Lin2		0.4553	0.0100	24500	25000	-2.1	30.0
Benzo[a]anthracene	Ave	1.241	1.202	0.8000	24200	25000	-3.1	30.0
Chrysene	Ave	1.128	1.162	0.7000	25800	25000	3.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503804/18 Calibration Date: 03/15/2018 21:05

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077542.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-ethylhexyl) phthalate	Ave	0.8434	0.8588	0.0100	25500	25000	1.8	30.0
Di-n-octyl phthalate	Ave	1.385	1.368	0.0100	24700	25000	-1.2	30.0
Benzo[b]fluoranthene	Ave	1.109	1.134	0.7000	25600	25000	2.2	30.0
Benzo[k]fluoranthene	Ave	1.142	1.209	0.7000	26500	25000	5.8	30.0
Benzo[a]pyrene	Ave	1.053	1.094	0.7000	26000	25000	4.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.9704	0.9716	0.5000	25000	25000	0.1	30.0
Dibenz(a,h)anthracene	Ave	0.9657	0.999	0.4000	25900	25000	3.4	30.0
Benzo[g,h,i]perylene	Ave	1.069	1.067	0.5000	25000	25000	-0.2	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077542.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Mar-2018 21:05:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-018
Operator ID: Instrument ID: CBNAMS12
Sublist:

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:54 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 07:53:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.910	1.916	-0.006	95	54922	25.0	24.7	
2 N-Nitrosodimethylamine	74	2.152	2.157	-0.005	76	93954	25.0	24.9	
3 Pyridine	79	2.187	2.193	-0.006	80	324177	50.0	50.3	
7 Phenol	94	4.257	4.263	-0.006	97	180596	25.0	23.9	
8 Aniline	93	4.293	4.293	0.000	98	227268	25.0	24.8	
9 Bis(2-chloroethyl)ether	93	4.346	4.351	-0.005	92	143123	25.0	25.3	
10 2-Chlorophenol	128	4.404	4.410	-0.006	93	148334	25.0	25.3	
11 n-Decane	43	4.457	4.463	-0.006	94	210676	25.0	26.1	
12 1,3-Dichlorobenzene	146	4.557	4.557	0.000	95	170359	25.0	25.4	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	169678	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.622	4.622	0.000	96	173016	25.0	25.6	
15 Benzyl alcohol	108	4.728	4.734	-0.006	91	98888	25.0	25.1	
16 1,2-Dichlorobenzene	146	4.769	4.769	0.000	95	165142	25.0	25.7	
17 2-Methylphenol	108	4.834	4.840	-0.006	89	136265	25.0	25.4	
18 2,2'-oxybis[1-chloropropan	45	4.863	4.863	0.000	91	280824	25.0	26.1	
19 4-Methylphenol	108	4.981	4.987	-0.006	77	159786	25.0	26.0	
21 N-Nitrosodi-n-propylamine	70	4.987	4.987	0.000	95	118846	25.0	25.9	
20 3 & 4 Methylphenol	108	4.981	4.987	-0.006	85	159786	25.0	26.0	
22 Acetophenone	105	4.981	4.987	-0.006	87	221801	25.0	26.3	
25 Hexachloroethane	117	5.093	5.093	0.000	94	65757	25.0	25.2	
27 Nitrobenzene	123	5.146	5.146	0.000	88	68447	25.0	24.7	
28 n,n'-Dimethylaniline	120	5.151	5.151	0.000	94	236912	25.0	27.1	
29 Isophorone	82	5.369	5.375	-0.006	98	288640	25.0	25.9	
30 2-Nitrophenol	139	5.451	5.451	0.000	86	63069	25.0	22.3	
31 2,4-Dimethylphenol	122	5.487	5.493	-0.006	90	131248	25.0	25.2	
32 Bis(2-chloroethoxy)methane	93	5.575	5.581	-0.006	96	183009	25.0	25.7	
33 Benzoic acid	122	5.569	5.587	-0.018	93	61773	25.0	23.5	
34 2,4-Dichlorophenol	162	5.675	5.675	0.000	94	125402	25.0	25.6	
35 1,2,4-Trichlorobenzene	180	5.757	5.763	-0.006	94	138284	25.0	25.2	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	692643	40.0	40.0	
37 Naphthalene	128	5.834	5.834	0.000	99	440134	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
38 4-Chloroaniline	127	5.881	5.881	0.000	96	186870	25.0	25.0	
39 Hexachlorobutadiene	225	5.963	5.963	0.000	95	76074	25.0	25.7	
41 4-Chloro-3-methylphenol	107	6.340	6.340	0.000	98	125369	25.0	25.5	
42 2-Methylnaphthalene	142	6.487	6.492	-0.005	84	298236	25.0	25.6	
43 1-Methylnaphthalene	142	6.581	6.587	-0.006	93	281723	25.0	25.5	
45 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	141866	25.0	24.9	
44 Hexachlorocyclopentadiene	237	6.651	6.651	0.000	96	78673	25.0	21.9	
46 2-tertbutyl-4-methylphenol	149	6.681	6.681	0.000	89	190527	25.0	26.4	
48 2,4,6-Trichlorophenol	196	6.757	6.757	0.000	89	94752	25.0	27.4	
49 2,4,5-Trichlorophenol	196	6.787	6.787	0.000	97	95126	25.0	23.3	
51 1,1'-Biphenyl	154	6.934	6.934	0.000	97	361683	25.0	25.4	
52 2-Chloronaphthalene	162	6.951	6.951	0.000	99	282498	25.0	25.2	
53 Phenyl ether	170	7.034	7.034	0.000	91	184992	25.0	26.2	
54 2-Nitroaniline	65	7.040	7.045	-0.005	95	103244	25.0	24.8	
55 1,3-Dimethylnaphthalene	156	7.157	7.163	-0.006	91	230596	25.0	25.8	
58 Dimethyl phthalate	163	7.222	7.228	-0.006	98	327961	25.0	25.7	
59 Coumarin	146	7.240	7.239	0.001	79	114071	25.0	26.2	
60 2,6-Dinitrotoluene	165	7.275	7.275	0.000	92	67163	25.0	26.8	
61 Acenaphthylene	152	7.340	7.345	-0.005	97	428037	25.0	25.4	
62 3-Nitroaniline	138	7.434	7.434	0.000	92	75741	25.0	24.5	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	98	345776	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.504	7.504	0.000	98	237886	25.0	25.7	
65 Acenaphthene	154	7.510	7.510	0.000	97	296802	25.0	25.7	
66 2,4-Dinitrophenol	184	7.528	7.534	-0.006	90	53611	50.0	45.8	
67 4-Nitrophenol	65	7.592	7.598	-0.006	91	128866	50.0	51.1	
68 2,4-Dinitrotoluene	165	7.651	7.657	-0.006	91	88058	25.0	26.6	
69 Dibenzofuran	168	7.669	7.675	-0.006	96	403696	25.0	25.6	
70 2,3,4,6-Tetrachlorophenol	232	7.787	7.792	-0.005	92	75201	25.0	24.7	
71 Diethyl phthalate	149	7.892	7.898	-0.006	97	329856	25.0	25.4	
74 Fluorene	166	7.992	7.998	-0.006	95	326482	25.0	25.6	
73 4-Chlorophenyl phenyl ethe	204	7.998	7.998	0.000	84	149915	25.0	25.5	
75 4-Nitroaniline	138	8.010	8.016	-0.006	94	81699	25.0	24.9	
76 4,6-Dinitro-2-methylphenol	198	8.040	8.045	-0.005	78	72559	50.0	48.9	
77 N-Nitrosodiphenylamine	169	8.104	8.110	-0.006	100	227653	25.0	25.0	
78 1,2-Diphenylhydrazine	77	8.145	8.145	0.000	100	343818	25.0	25.1	
80 4-Bromophenyl phenyl ether	248	8.457	8.457	0.000	86	92425	25.0	25.3	
81 Hexachlorobenzene	284	8.522	8.522	0.000	98	101814	25.0	25.1	
83 Pentachlorophenol	266	8.704	8.704	0.000	93	114811	50.0	52.5	
84 Pentachloronitrobenzene	237	8.722	8.722	0.000	87	41929	25.0	25.9	
72 n-Octadecane	57	8.792	8.798	-0.006	92	276362	25.0	25.8	
* 85 Phenanthrene-d10	188	8.881	8.881	0.000	99	670034	40.0	40.0	
86 Phenanthrene	178	8.904	8.904	0.000	98	482090	25.0	25.1	
87 Anthracene	178	8.951	8.951	0.000	98	506972	25.0	25.5	
88 Carbazole	167	9.098	9.104	-0.006	96	458340	25.0	25.3	
89 Di-n-butyl phthalate	149	9.445	9.445	0.000	99	561719	25.0	25.4	
90 Fluoranthene	202	10.028	10.028	0.000	97	515289	25.0	25.4	
91 Benzidine	184	10.157	10.157	0.000	99	312896	25.0	25.7	
92 Pyrene	202	10.245	10.245	0.000	97	532482	25.0	25.7	
93 Bisphenol-A	213	10.292	10.298	-0.006	97	216349	25.0	27.5	
95 Butyl benzyl phthalate	149	10.922	10.927	-0.005	97	228405	25.0	25.1	
97 Carbamazepine	193	11.033	11.039	-0.006	93	203041	25.0	25.8	
98 3,3'-Dichlorobenzidine	252	11.528	11.527	0.001	99	179265	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 Benzo[a]anthracene	228	11.545	11.551	-0.006	100	473499	25.0	24.2	
* 100 Chrysene-d12	240	11.563	11.557	0.006	99	630023	40.0	40.0	
101 Chrysene	228	11.592	11.598	-0.006	98	457597	25.0	25.8	
102 Bis(2-ethylhexyl) phthalat	149	11.622	11.622	0.000	87	338157	25.0	25.5	
103 Di-n-octyl phthalate	149	12.504	12.504	0.000	97	553209	25.0	24.7	
104 Benzo[b]fluoranthene	252	12.992	12.992	0.000	98	458389	25.0	25.6	
105 Benzo[k]fluoranthene	252	13.027	13.033	-0.006	99	488867	25.0	26.5	
106 Benzo[a]pyrene	252	13.457	13.463	-0.006	96	442528	25.0	26.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	98	646943	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.216	15.221	-0.005	98	392862	25.0	25.0	M
109 Dibenz(a,h)anthracene	278	15.263	15.274	-0.011	96	403826	25.0	25.9	
110 Benzo[g,h,i]perylene	276	15.692	15.704	-0.012	96	431616	25.0	25.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_ICV-long_00018 Amount Added: 1.00 Units: mL

Report Date: 16-Mar-2018 10:26:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077542.d

Injection Date: 15-Mar-2018 21:05:30 Instrument ID: CBNAMS12 Operator ID:

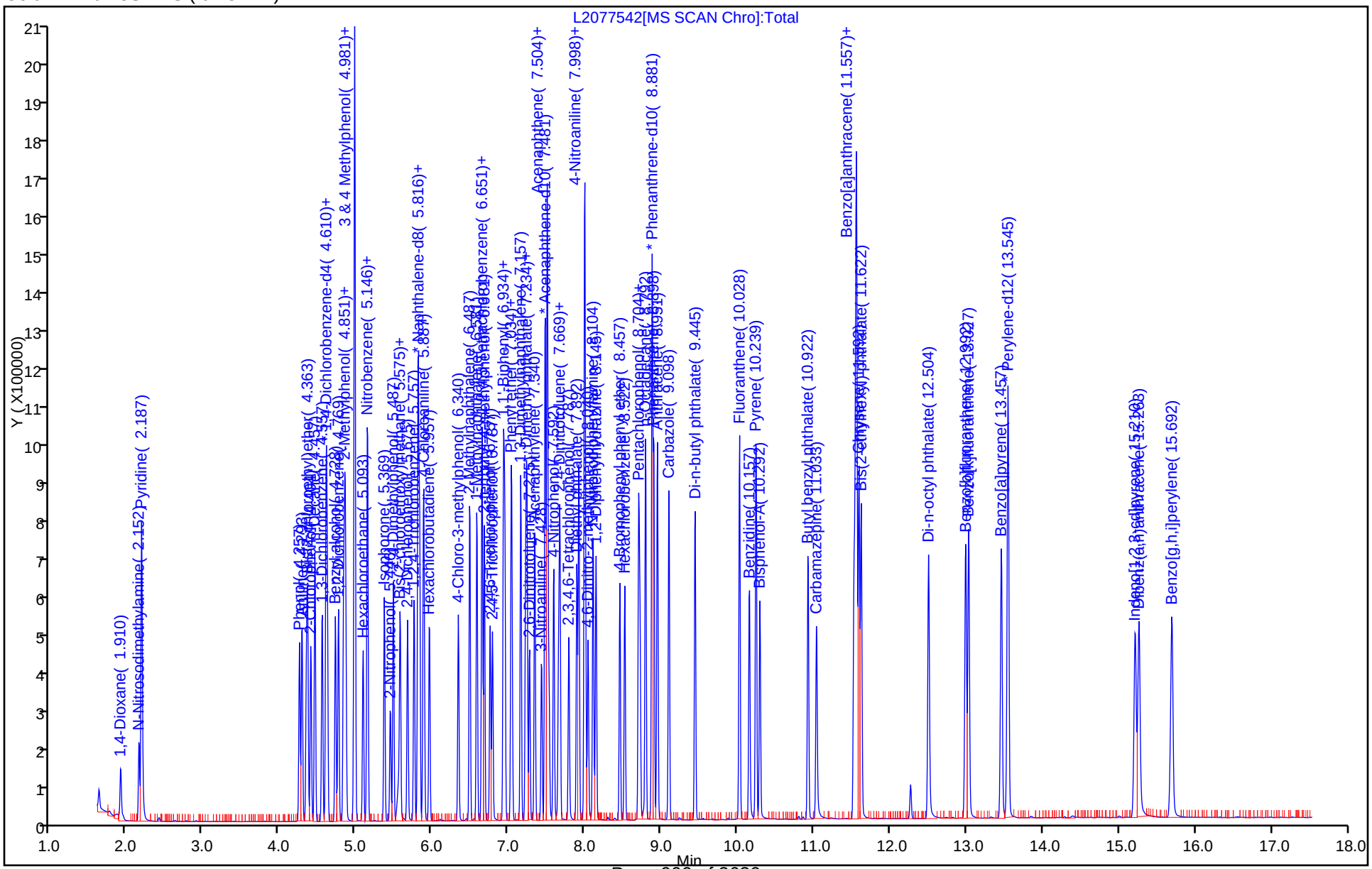
Lims ID: ICV Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 18

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

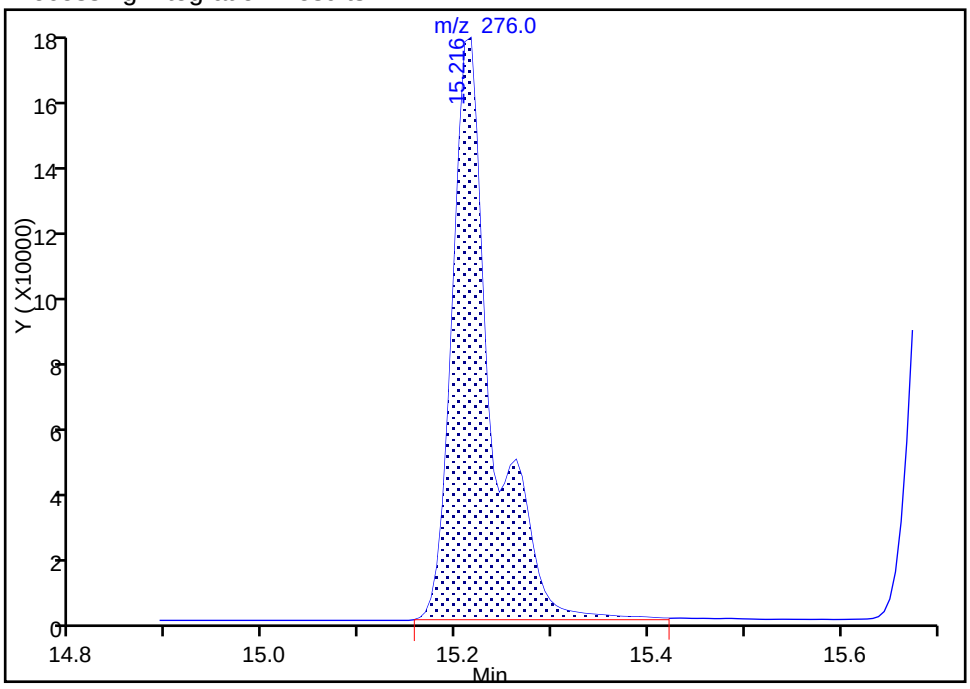
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077542.d				
Injection Date:	15-Mar-2018 21:05:30	Instrument ID:	CBNAMS12		
Lims ID:	ICV				
Client ID:					
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

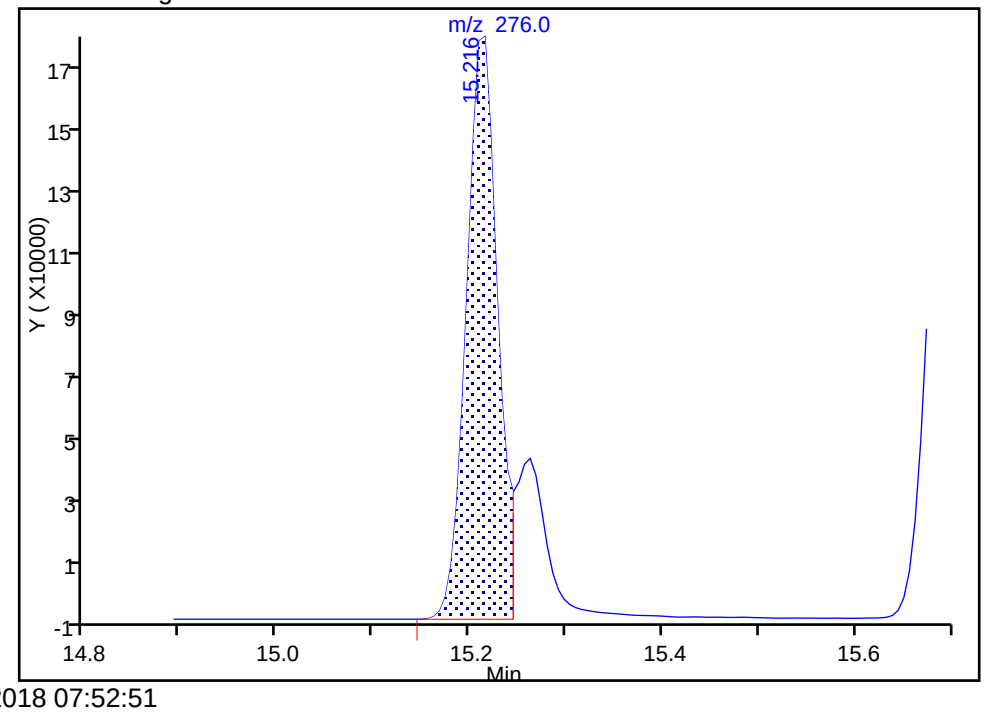
Processing Integration Results

RT: 15.22
Area: 493731
Amount: 30.854351
Amount Units: ug/ml



Manual Integration Results

RT: 15.22
Area: 392862
Amount: 25.031862
Amount Units: ug/ml



Reviewer: johnstonm1, 16-Mar-2018 07:52:51

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-503804/19 Calibration Date: 03/15/2018 21:28

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 18:27

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 20:42

Lab File ID: L2077543.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.236	1.268	0.0100	25600	25000	2.6	30.0
Caprolactam	Ave	0.0850	0.0878	0.0100	25800	25000	3.2	30.0
Atrazine	Ave	0.1997	0.2005	0.0100	25100	25000	0.4	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077543.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Mar-2018 21:28:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-019
Operator ID: Instrument ID: CBNAMS12
Sublist:

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 10:25:54 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 16-Mar-2018 08:01:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.187	4.187	0.000	92	124868	25.0	25.6	
* 13 1,4-Dichlorobenzene-d4	152	4.604	4.604	0.000	97	157594	40.0	40.0	
* 36 Naphthalene-d8	136	5.810	5.810	0.000	99	621401	40.0	40.0	
40 Caprolactam	113	6.175	6.181	-0.006	86	34091	25.0	25.8	
* 63 Acenaphthene-d10	164	7.475	7.475	0.000	99	302510	40.0	40.0	
82 Atrazine	200	8.616	8.616	0.000	87	74710	25.0	25.1	
* 85 Phenanthrene-d10	188	8.880	8.881	-0.001	99	596330	40.0	40.0	
* 100 Chrysene-d12	240	11.557	11.557	0.000	99	615280	40.0	40.0	
* 107 Perylene-d12	264	13.545	13.545	0.000	97	597549	40.0	40.0	

Reagents:

SM_ICV-short_00017 Amount Added: 1.00 Units: mL

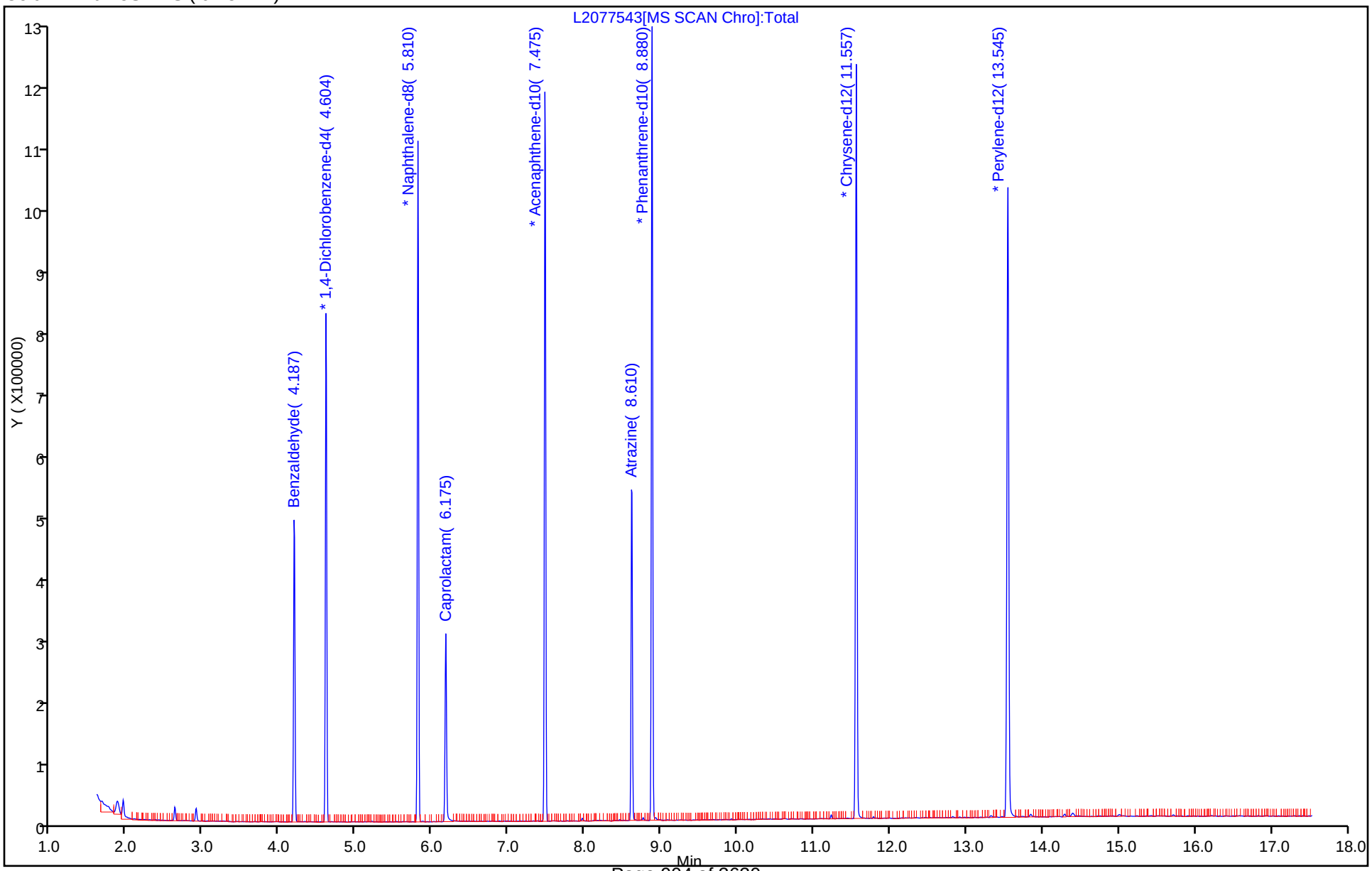
Report Date: 16-Mar-2018 10:26:10 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077543.d

Injection Date:	15-Mar-2018 21:28:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505174/2 Calibration Date: 03/22/2018 08:43

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077644.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5241	0.4926	0.0100	47000	50000	-6.0	20.0
N-Nitrosodimethylamine	Ave	0.8892	0.8847		49700	50000	-0.5	20.0
Pyridine	Ave	1.519	1.504		99000	100000	-1.0	20.0
Phenol	Ave	1.780	1.836	0.8000	51600	50000	3.1	20.0
Aniline	Ave	2.158	2.135		49500	50000	-1.1	20.0
Bis(2-chloroethyl)ether	Ave	1.333	1.307	0.7000	49000	50000	-1.9	20.0
2-Chlorophenol	Ave	1.380	1.388	0.8000	50300	50000	0.6	20.0
n-Decane	Ave	1.900	1.863	0.0100	49000	50000	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.583	1.564		49400	50000	-1.2	20.0
1,4-Dichlorobenzene	Ave	1.595	1.573		49300	50000	-1.3	20.0
Benzyl alcohol	Ave	0.9285	0.9096	0.0100	49000	50000	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.515	1.515		50000	50000	0.0	20.0
2-Methylphenol	Ave	1.266	1.256	0.7000	49600	50000	-0.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.540	2.499	0.0100	49200	50000	-1.6	20.0
Acetophenone	Ave	1.990	1.972	0.0100	49600	50000	-0.9	20.0
3 & 4 Methylphenol	Ave	1.451	1.449		50000	50000	-0.1	20.0
4-Methylphenol	Ave	1.451	1.449	0.6000	50000	50000	-0.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.080	1.050	0.5000	48600	50000	-2.8	20.0
Hexachloroethane	Ave	0.6154	0.6024	0.3000	48900	50000	-2.1	20.0
Nitrobenzene	Ave	0.6531	0.6751	0.2000	51700	50000	3.4	20.0
n,n'-Dimethylaniline	Ave	2.062	2.135	0.0100	51800	50000	3.6	20.0
Isophorone	Ave	0.6446	0.6638	0.4000	51500	50000	3.0	20.0
2-Nitrophenol	Ave	0.1636	0.1883	0.1000	57500	50000	15.0	20.0
2,4-Dimethylphenol	Ave	0.3010	0.3132	0.2000	52000	50000	4.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.4114	0.4195	0.3000	51000	50000	2.0	20.0
Benzoic acid	Qua		0.2012		58100	50000	16.2	20.0
2,4-Dichlorophenol	Ave	0.2828	0.3068	0.2000	54200	50000	8.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3167	0.3267		51600	50000	3.1	20.0
Naphthalene	Ave	0.996	1.026	0.7000	51500	50000	3.0	20.0
4-Chloroaniline	Ave	0.4311	0.4384	0.0100	50900	50000	1.7	20.0
Hexachlorobutadiene	Ave	0.1713	0.1793	0.0100	52300	50000	4.7	20.0
4-Chloro-3-methylphenol	Ave	0.2841	0.3003		52900	50000	5.7	20.0
2-Methylnaphthalene	Ave	0.6716	0.6942	0.4000	51700	50000	3.4	20.0
1-Methylnaphthalene	Ave	0.6392	0.6573	0.0100	51400	50000	2.8	20.0
Hexachlorocyclopentadiene	Ave	0.4163	0.4238	0.0500	50900	50000	1.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6583	0.6811	0.0100	51700	50000	3.5	20.0
2-tertbutyl-4-methylphenol	Ave	0.4175	0.4490	0.0100	53800	50000	7.5	20.0
2,4,6-Trichlorophenol	Ave	0.3998	0.4459	0.2000	55800	50000	11.5	20.0
2,4,5-Trichlorophenol	Ave	0.4725	0.4847	0.2000	51300	50000	2.6	20.0
1,1'-Biphenyl	Ave	1.645	1.684	0.0100	51200	50000	2.4	20.0
2-Chloronaphthalene	Ave	1.299	1.308	0.8000	50300	50000	0.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505174/2 Calibration Date: 03/22/2018 08:43

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077644.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8182	0.8816	0.0100	53900	50000	7.7	20.0
2-Nitroaniline	Ave	0.4817	0.5242	0.0100	54400	50000	8.8	20.0
1,3-Dimethylnaphthalene	Ave	1.032	1.094	0.0100	53000	50000	5.9	20.0
Dimethyl phthalate	Ave	1.479	1.518	0.0100	51300	50000	2.6	20.0
Coumarin	Ave	0.2511	0.2677	0.0100	53300	50000	6.6	20.0
2,6-Dinitrotoluene	Ave	0.2894	0.3353	0.2000	57900	50000	15.9	20.0
Acenaphthylene	Ave	1.953	1.996	0.9000	51100	50000	2.2	20.0
3-Nitroaniline	Ave	0.3580	0.3926	0.0100	54800	50000	9.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.071	1.151	0.0100	53800	50000	7.5	20.0
Acenaphthene	Ave	1.336	1.289	0.9000	48200	50000	-3.5	20.0
2,4-Dinitrophenol	Qua		0.2108	0.0100	121000	100000	21.2*	20.0
4-Nitrophenol	Ave	0.2917	0.3115	0.0100	107000	100000	6.8	20.0
2,4-Dinitrotoluene	Ave	0.3829	0.4494	0.2000	58700	50000	17.4	20.0
Dibenzofuran	Ave	1.827	1.870	0.8000	51200	50000	2.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3516	0.3814	0.0100	54200	50000	8.5	20.0
Diethyl phthalate	Ave	1.503	1.522	0.0100	50600	50000	1.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6792	0.7106	0.4000	52300	50000	4.6	20.0
Fluorene	Ave	1.478	1.519	0.9000	51400	50000	2.8	20.0
4-Nitroaniline	Ave	0.3792	0.4056	0.0100	53500	50000	7.0	20.0
4,6-Dinitro-2-methylphenol	Qua		0.1250	0.0100	115000	100000	15.3	20.0
N-Nitrosodiphenylamine	Ave	0.5446	0.5481	0.0100	50300	50000	0.6	20.0
1,2-Diphenylhydrazine	Ave	0.8166	0.8074	0.0100	49400	50000	-1.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2180	0.2265	0.1000	51900	50000	3.9	20.0
Hexachlorobenzene	Ave	0.2423	0.2475	0.1000	51100	50000	2.1	20.0
Pentachlorophenol	Ave	0.1305	0.1540	0.0500	118000	100000	18.0	20.0
Pentachloronitrobenzene	Ave	0.0967	0.1084	0.0100	56000	50000	12.1	20.0
n-Octadecane	Ave	0.6383	0.6249	0.0100	48900	50000	-2.1	20.0
Phenanthrene	Ave	1.145	1.160	0.7000	50700	50000	1.3	20.0
Anthracene	Ave	1.185	1.196	0.7000	50400	50000	0.9	20.0
Carbazole	Ave	1.080	1.091	0.0100	50500	50000	1.1	20.0
Di-n-butyl phthalate	Ave	1.321	1.334	0.0100	50500	50000	1.0	20.0
Fluoranthene	Ave	1.211	1.250	0.6000	51600	50000	3.3	20.0
Benzidine	Lin2		0.7174		46200	50000	-7.6	20.0
Pyrene	Ave	1.317	1.221	0.6000	46400	50000	-7.2	20.0
Bisphenol-A	Ave	0.4992	0.5613		56200	50000	12.4	20.0
Butyl benzyl phthalate	Ave	0.5772	0.5642	0.0100	48900	50000	-2.2	20.0
2,3,7,8-TCDD	Ave	0.1326	0.1458	0.0100	550	500	10.0	20.0
Carbamazepine	Ave	0.4988	0.5563	0.0100	55800	50000	11.5	20.0
3,3'-Dichlorobenzidine	Lin2		0.4601	0.0100	48300	50000	-3.4	20.0
Benzo[a]anthracene	Ave	1.241	1.133	0.8000	45600	50000	-8.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505174/2 Calibration Date: 03/22/2018 08:43

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 15:03

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 18:04

Lab File ID: L2077644.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.128	1.077	0.7000	47800	50000	-4.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8434	0.8012	0.0100	47500	50000	-5.0	20.0
Di-n-octyl phthalate	Ave	1.385	1.445	0.0100	52200	50000	4.3	20.0
Benzo[b]fluoranthene	Ave	1.109	1.217	0.7000	54900	50000	9.7	20.0
Benzo[k]fluoranthene	Ave	1.142	1.160	0.7000	50800	50000	1.6	20.0
Benzo[a]pyrene	Ave	1.053	1.151	0.7000	54600	50000	9.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9704	1.116	0.5000	57500	50000	15.0	20.0
Dibenz(a,h)anthracene	Ave	0.9657	1.105	0.4000	57200	50000	14.5	20.0
Benzo[g,h,i]perylene	Ave	1.069	1.145	0.5000	53500	50000	7.0	20.0
2-Fluorophenol (Surr)	Ave	1.351	1.346		49800	50000	-0.4	20.0
Phenol-d5 (Surr)	Ave	1.685	1.697		50400	50000	0.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3843	0.3967		51600	50000	3.2	20.0
2-Fluorobiphenyl	Ave	1.517	1.551		51100	50000	2.2	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2134	0.2527		59200	50000	18.4	20.0
Terphenyl-d14 (Surr)	Ave	0.9230	0.8123		44000	50000	-12.0	20.0

Report Date: 22-Mar-2018 15:44:22 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 08:43:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-002
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub18

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:44:20 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:44:19

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.875	1.875	0.000	96	105124	50.0	47.0	
	2 N-Nitrosodimethylamine	74	2.116	2.116	0.000	76	188826	50.0	49.7	
	3 Pyridine	79	2.152	2.152	0.000	80	641929	100.0	99.0	
$	4 2-Fluorophenol	112	3.328	3.328	0.000	92	287336	50.0	49.8	
$	6 Phenol-d5	99	4.222	4.222	0.000	0	362234	50.0	50.4	
	7 Phenol	94	4.234	4.234	0.000	95	391905	50.0	51.6	a
	8 Aniline	93	4.252	4.252	0.000	98	455599	50.0	49.5	
	9 Bis(2-chloroethyl)ether	93	4.310	4.310	0.000	93	278993	50.0	49.0	
	10 2-Chlorophenol	128	4.369	4.369	0.000	93	296321	50.0	50.3	
	11 n-Decane	43	4.416	4.416	0.000	94	397550	50.0	49.0	
	12 1,3-Dichlorobenzene	146	4.516	4.516	0.000	95	333804	50.0	49.4	
*	13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	96	170744	40.0	40.0	
	14 1,4-Dichlorobenzene	146	4.581	4.581	0.000	94	335769	50.0	49.3	
	15 Benzyl alcohol	108	4.693	4.693	0.000	92	194134	50.0	49.0	
	16 1,2-Dichlorobenzene	146	4.728	4.728	0.000	96	323423	50.0	50.0	
	17 2-Methylphenol	108	4.804	4.804	0.000	90	268097	50.0	49.6	
	18 2,2'-oxybis[1-chloropropan	45	4.822	4.822	0.000	91	533461	50.0	49.2	
	22 Acetophenone	105	4.946	4.946	0.000	87	420970	50.0	49.6	
	19 4-Methylphenol	108	4.951	4.951	0.000	79	309337	50.0	50.0	
	20 3 & 4 Methylphenol	108	4.951	4.951	0.000	85	309337	50.0	50.0	
	21 N-Nitrosodi-n-propylamine	70	4.951	4.951	0.000	94	224045	50.0	48.6	
	25 Hexachloroethane	117	5.051	5.051	0.000	95	128576	50.0	48.9	
$	26 Nitrobenzene-d5	82	5.093	5.093	0.000	94	325130	50.0	51.6	
	27 Nitrobenzene	123	5.110	5.110	0.000	90	144092	50.0	51.7	
	28 n,n'-Dimethylaniline	120	5.116	5.116	0.000	94	455772	50.0	51.8	
	29 Isophorone	82	5.334	5.334	0.000	98	544010	50.0	51.5	
	30 2-Nitrophenol	139	5.410	5.410	0.000	86	154278	50.0	57.5	
	31 2,4-Dimethylphenol	122	5.457	5.457	0.000	90	256657	50.0	52.0	
	32 Bis(2-chloroethoxy)methane	93	5.540	5.540	0.000	94	343764	50.0	51.0	
	33 Benzoic acid	122	5.563	5.563	0.000	91	164876	50.0	58.1	
	34 2,4-Dichlorophenol	162	5.646	5.646	0.000	94	251410	50.0	54.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 1,2,4-Trichlorobenzene	180	5.722	5.722	0.000	94	267758	50.0	51.6	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	655625	40.0	40.0	
37 Naphthalene	128	5.793	5.793	0.000	99	840894	50.0	51.5	
38 4-Chloroaniline	127	5.846	5.846	0.000	96	359300	50.0	50.9	
39 Hexachlorobutadiene	225	5.922	5.922	0.000	95	146912	50.0	52.3	
41 4-Chloro-3-methylphenol	107	6.310	6.310	0.000	98	246132	50.0	52.9	
42 2-Methylnaphthalene	142	6.451	6.451	0.000	84	568875	50.0	51.7	
43 1-Methylnaphthalene	142	6.545	6.545	0.000	93	538695	50.0	51.4	
44 Hexachlorocyclopentadiene	237	6.610	6.610	0.000	97	171215	50.0	50.9	
45 1,2,4,5-Tetrachlorobenzene	216	6.616	6.616	0.000	98	275191	50.0	51.7	
46 2-tertbutyl-4-methylphenol	149	6.645	6.645	0.000	90	367964	50.0	53.8	
48 2,4,6-Trichlorophenol	196	6.722	6.722	0.000	89	180133	50.0	55.8	
49 2,4,5-Trichlorophenol	196	6.757	6.757	0.000	96	195821	50.0	51.3	
$ 50 2-Fluorobiphenyl	172	6.804	6.804	0.000	97	626437	50.0	51.1	
51 1,1'-Biphenyl	154	6.898	6.898	0.000	97	680461	50.0	51.2	
52 2-Chloronaphthalene	162	6.916	6.916	0.000	99	528309	50.0	50.3	
53 Phenyl ether	170	6.998	6.998	0.000	92	356160	50.0	53.9	
54 2-Nitroaniline	65	7.010	7.010	0.000	97	211789	50.0	54.4	
55 1,3-Dimethylnaphthalene	156	7.122	7.122	0.000	91	441793	50.0	53.0	
58 Dimethyl phthalate	163	7.193	7.193	0.000	98	613207	50.0	51.3	a
59 Coumarin	146	7.204	7.204	0.000	79	219414	50.0	53.3	
60 2,6-Dinitrotoluene	165	7.240	7.240	0.000	93	135455	50.0	57.9	
61 Acenaphthylene	152	7.304	7.304	0.000	97	806496	50.0	51.1	
62 3-Nitroaniline	138	7.398	7.398	0.000	93	158620	50.0	54.8	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	98	323214	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.469	7.469	0.000	98	465144	50.0	53.8	
65 Acenaphthene	154	7.475	7.475	0.000	96	520656	50.0	48.2	
66 2,4-Dinitrophenol	184	7.498	7.498	0.000	63	170326	100.0	121.2	a
67 4-Nitrophenol	65	7.569	7.569	0.000	90	251722	100.0	106.8	
68 2,4-Dinitrotoluene	165	7.622	7.622	0.000	92	181582	50.0	58.7	
69 Dibenzofuran	168	7.634	7.634	0.000	96	755648	50.0	51.2	
70 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	0.000	94	154110	50.0	54.2	
71 Diethyl phthalate	149	7.857	7.857	0.000	98	614798	50.0	50.6	
74 Fluorene	166	7.957	7.957	0.000	93	613642	50.0	51.4	
73 4-Chlorophenyl phenyl ethe	204	7.957	7.957	0.000	76	287107	50.0	52.3	
75 4-Nitroaniline	138	7.981	7.981	0.000	94	163887	50.0	53.5	
76 4,6-Dinitro-2-methylphenol	198	8.016	8.016	0.000	82	195032	100.0	115.3	
77 N-Nitrosodiphenylamine	169	8.075	8.075	0.000	100	427677	50.0	50.3	
78 1,2-Diphenylhydrazine	77	8.110	8.110	0.000	99	630007	50.0	49.4	
$ 79 2,4,6-Tribromophenol	330	8.187	8.187	0.000	95	102112	50.0	59.2	
80 4-Bromophenyl phenyl ether	248	8.422	8.422	0.000	88	176715	50.0	51.9	
81 Hexachlorobenzene	284	8.487	8.487	0.000	98	193107	50.0	51.1	
83 Pentachlorophenol	266	8.675	8.675	0.000	94	240325	100.0	118.0	
84 Pentachloronitrobenzene	237	8.687	8.687	0.000	88	84586	50.0	56.0	
72 n-Octadecane	57	8.757	8.757	0.000	93	487591	50.0	48.9	
* 85 Phenanthrene-d10	188	8.845	8.845	0.000	99	624207	40.0	40.0	
86 Phenanthrene	178	8.869	8.869	0.000	98	905425	50.0	50.7	
87 Anthracene	178	8.916	8.916	0.000	98	932937	50.0	50.4	
88 Carbazole	167	9.069	9.069	0.000	96	851549	50.0	50.5	
89 Di-n-butyl phthalate	149	9.404	9.404	0.000	99	1041096	50.0	50.5	a
90 Fluoranthene	202	9.992	9.992	0.000	97	975622	50.0	51.6	
91 Benzidine	184	10.116	10.116	0.000	99	559728	50.0	46.2	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Pyrene	202	10.204	10.204	0.000	96	991012	50.0	46.4	
93 Bisphenol-A	213	10.257	10.257	0.000	98	455475	50.0	56.2	
$ 94 Terphenyl-d14	244	10.363	10.363	0.000	100	659154	50.0	44.0	
95 Butyl benzyl phthalate	149	10.881	10.881	0.000	97	457861	50.0	48.9	
96 2,3,7,8-TCDD	320	10.980	10.980	0.000	90	1183	0.5000	0.5498	
97 Carbamazepine	193	10.992	10.992	0.000	93	451437	50.0	55.8	
98 3,3'-Dichlorobenzidine	252	11.480	11.480	0.000	99	373386	50.0	48.3	
99 Benzo[a]anthracene	228	11.498	11.498	0.000	100	919123	50.0	45.6	
* 100 Chrysene-d12	240	11.516	11.516	0.000	99	649176	40.0	40.0	
101 Chrysene	228	11.545	11.545	0.000	98	874237	50.0	47.8	
102 Bis(2-ethylhexyl) phthalat	149	11.569	11.569	0.000	87	650175	50.0	47.5	
103 Di-n-octyl phthalate	149	12.445	12.445	0.000	97	1167979	50.0	52.2	
104 Benzo[b]fluoranthene	252	12.933	12.933	0.000	98	983240	50.0	54.9	
105 Benzo[k]fluoranthene	252	12.974	12.974	0.000	99	937598	50.0	50.8	
106 Benzo[a]pyrene	252	13.398	13.398	0.000	96	929869	50.0	54.6	
* 107 Perylene-d12	264	13.486	13.486	0.000	98	646542	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.139	15.139	0.000	98	901684	50.0	57.5	M
109 Dibenz(a,h)anthracene	278	15.186	15.186	0.000	97	893269	50.0	57.2	
110 Benzo[g,h,i]perylene	276	15.615	15.615	0.000	96	925030	50.0	53.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SV_IC_BNA_L6_00033 Amount Added: 1.00 Units: mL

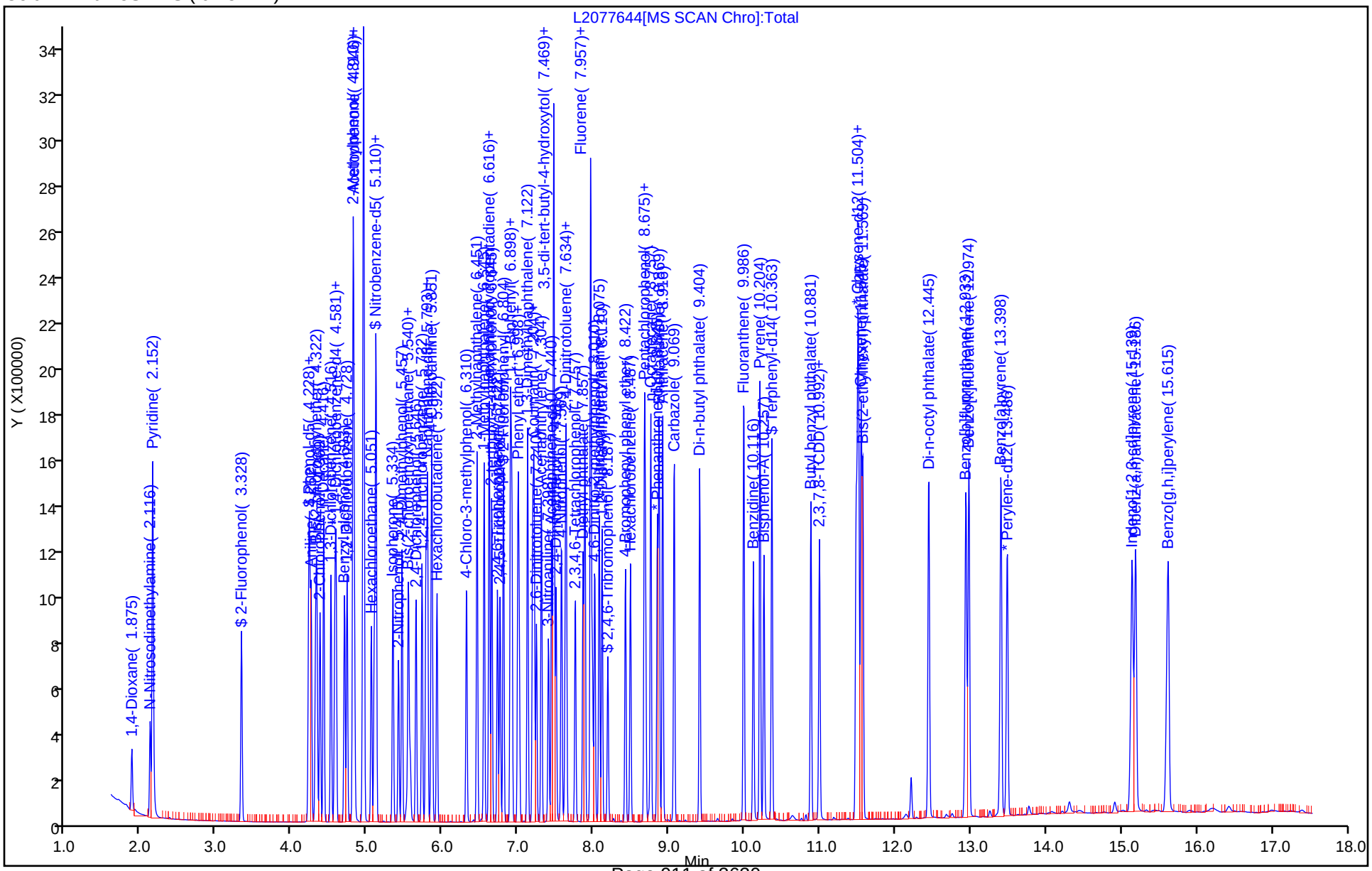
Report Date: 22-Mar-2018 15:44:23 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d

Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

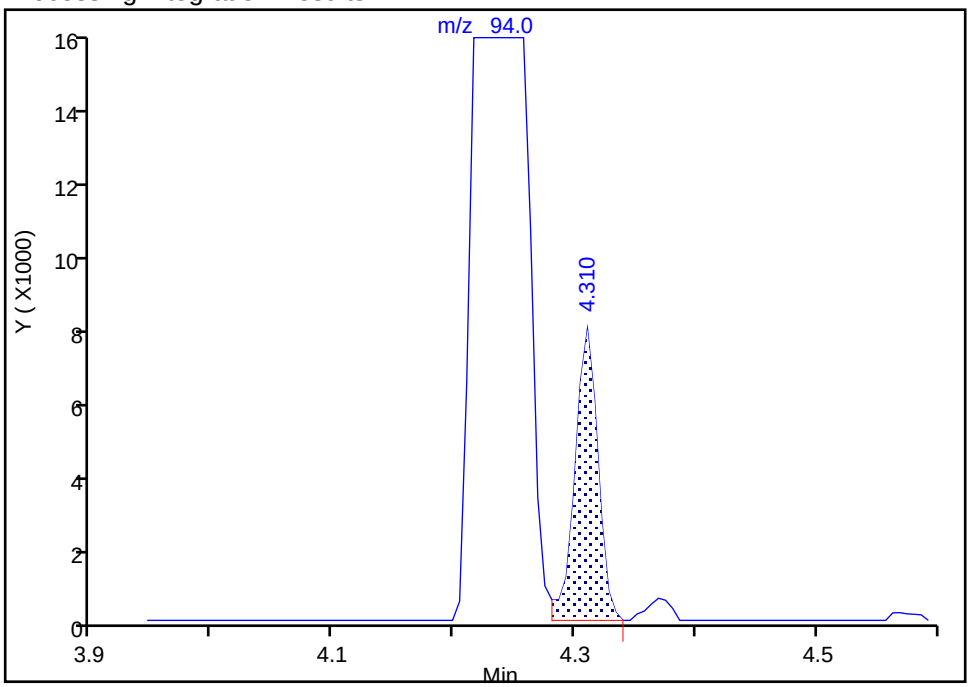
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d				
Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Phenol, CAS: 108-95-2

Signal: 1

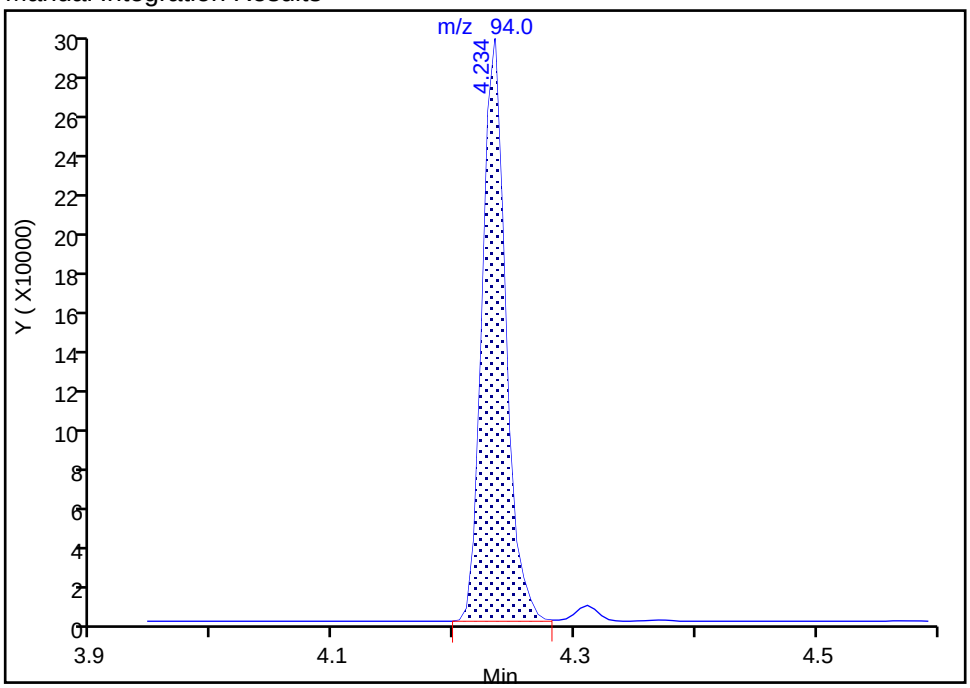
Processing Integration Results

RT: 4.31
Area: 10564
Amount: 1.390050
Amount Units: ug/ml



Manual Integration Results

RT: 4.23
Area: 391905
Amount: 51.568310
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:07:55

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

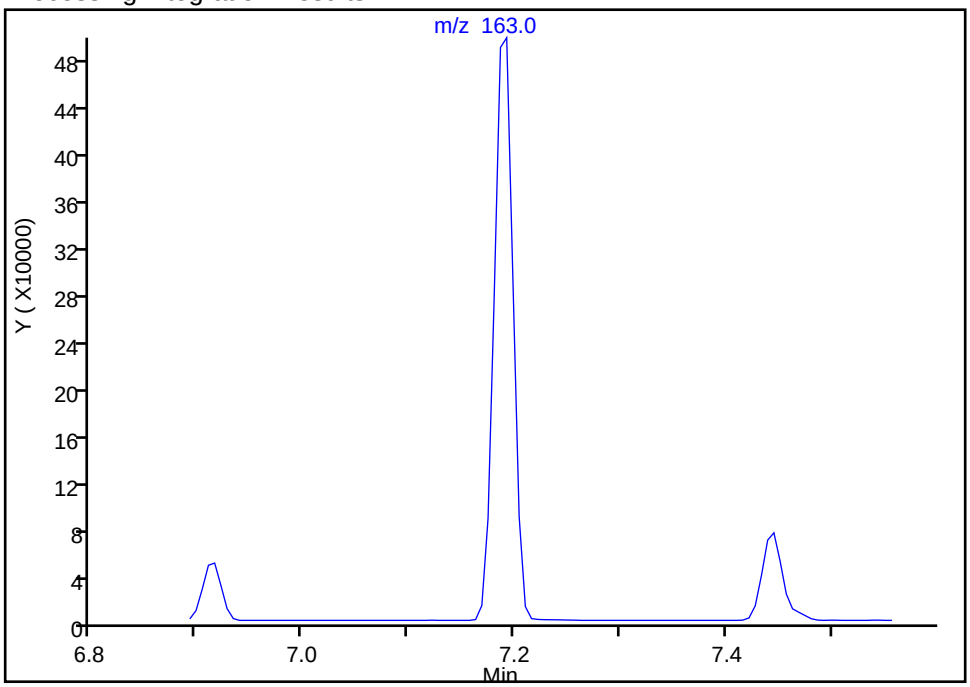
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d				
Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

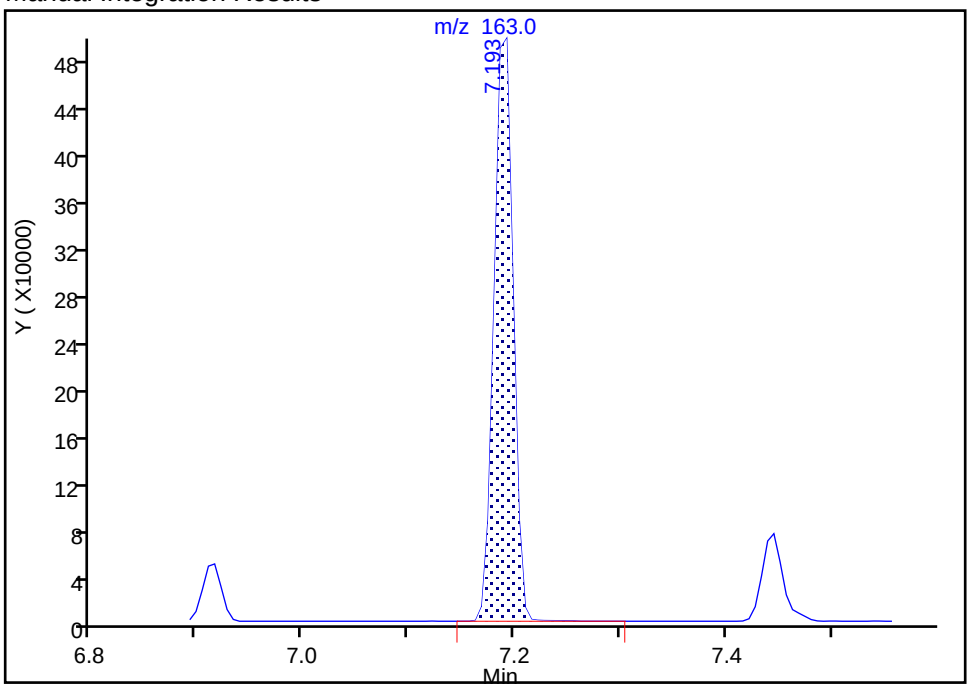
Processing Integration Results

Not Detected
Expected RT: 7.19



Manual Integration Results

RT: 7.19
Area: 613207
Amount: 51.324967
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:08:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

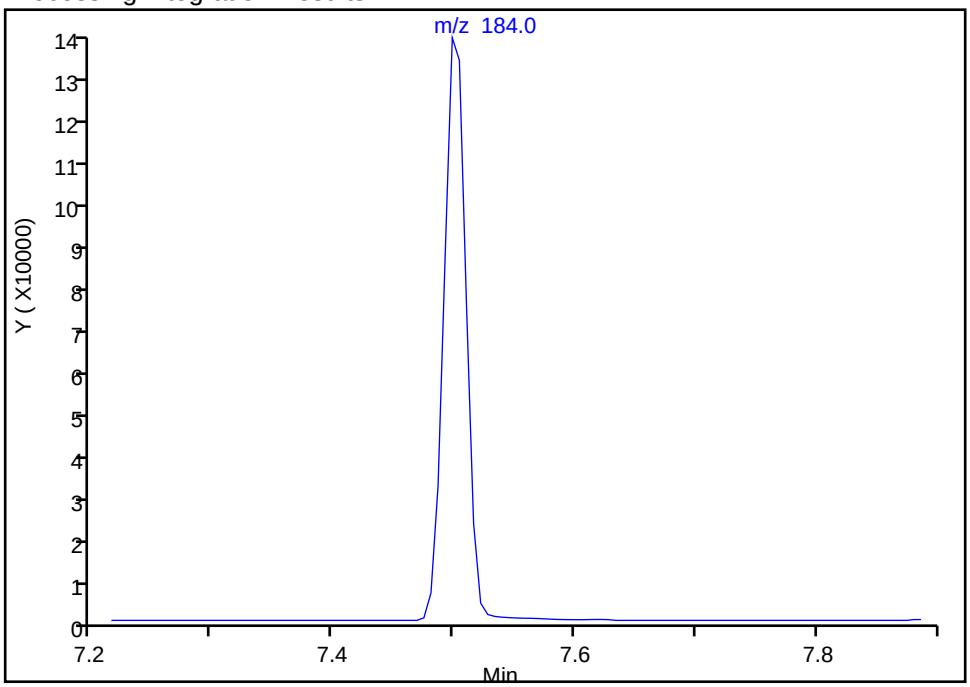
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d				
Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

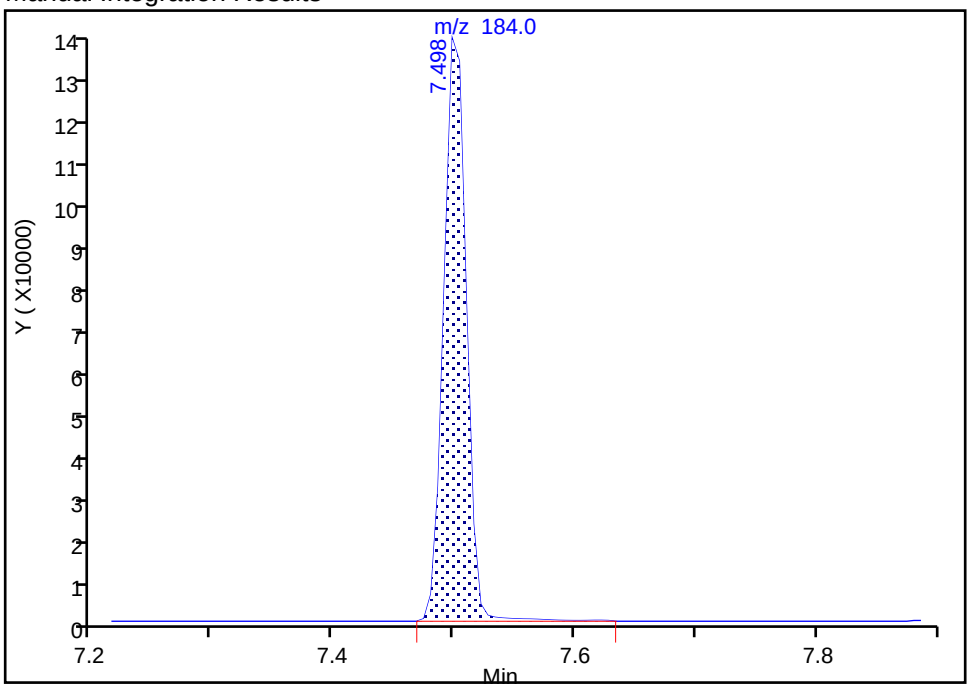
Not Detected
Expected RT: 7.50

Processing Integration Results



Manual Integration Results

RT: 7.50
Area: 170326
Amount: 121.1581
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:08:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

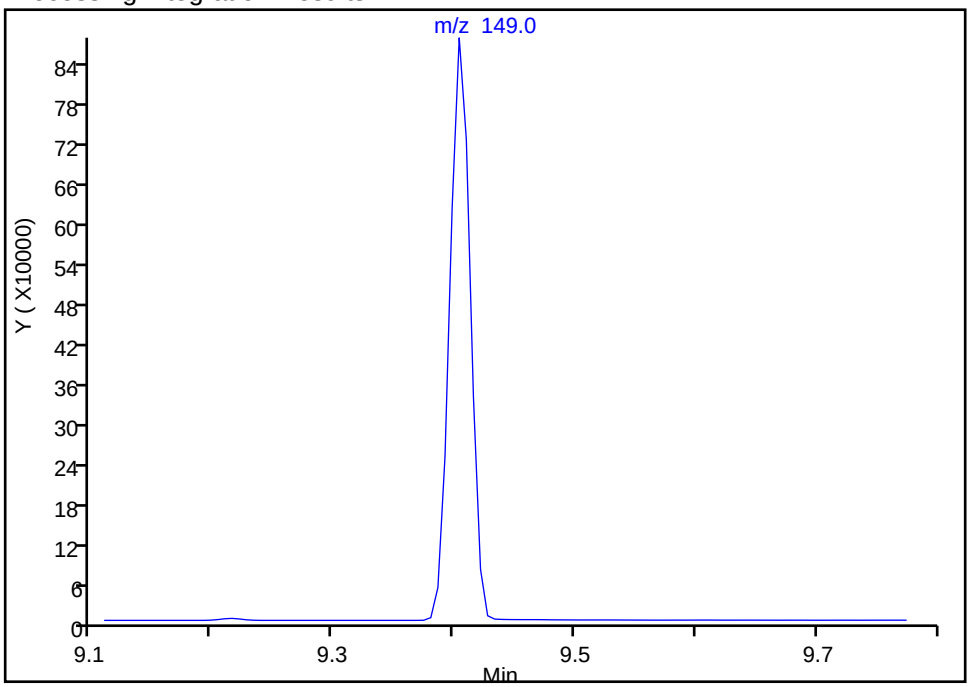
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d				
Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

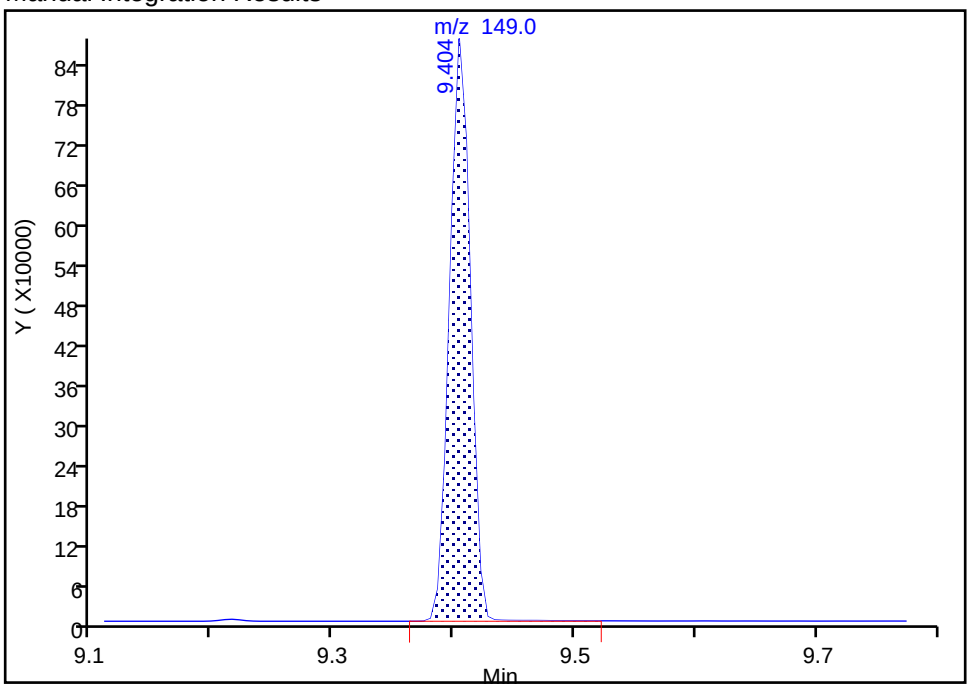
Processing Integration Results

Not Detected
Expected RT: 9.40



Manual Integration Results

RT: 9.40
Area: 1041096
Amount: 50.505440
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:08:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

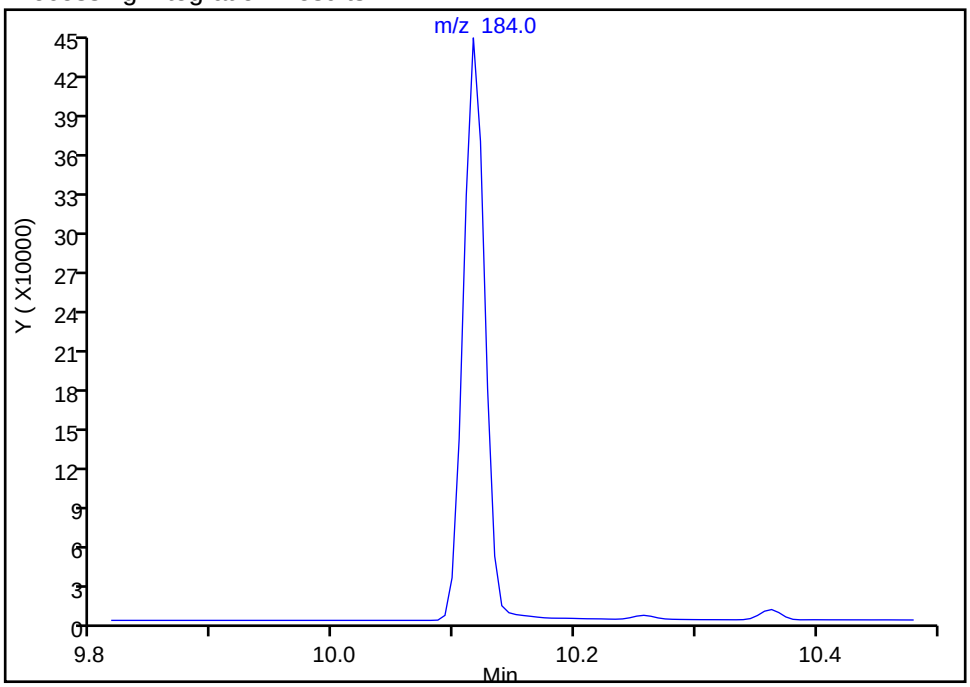
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d				
Injection Date:	22-Mar-2018 08:43:30	Instrument ID:	CBNAMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

91 Benzidine, CAS: 92-87-5

Signal: 1

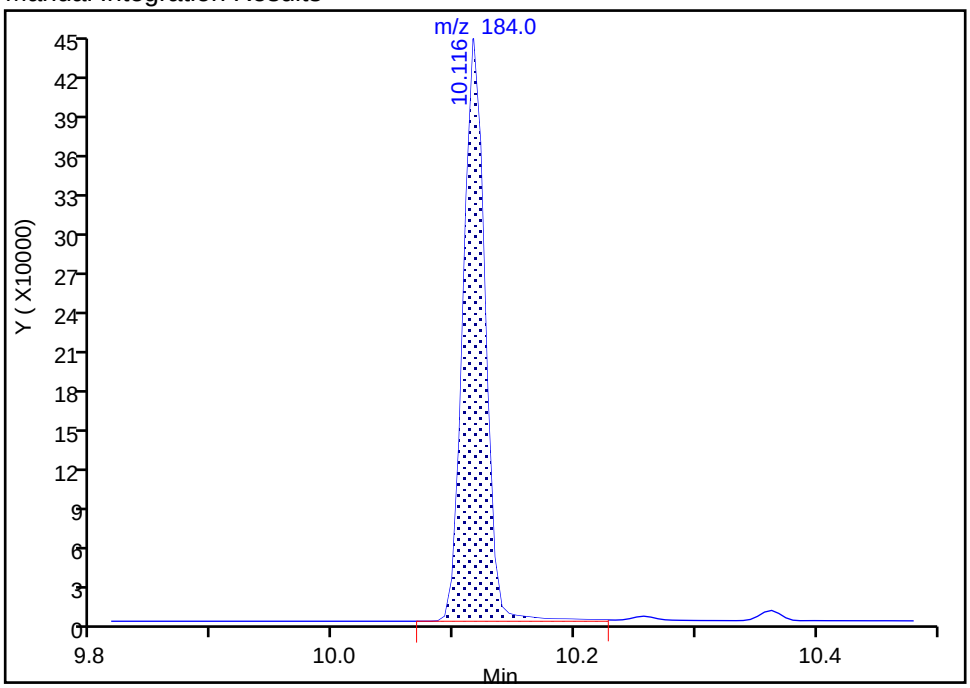
Not Detected
Expected RT: 10.12

Processing Integration Results



Manual Integration Results

RT: 10.12
Area: 559728
Amount: 46.202789
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:08:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

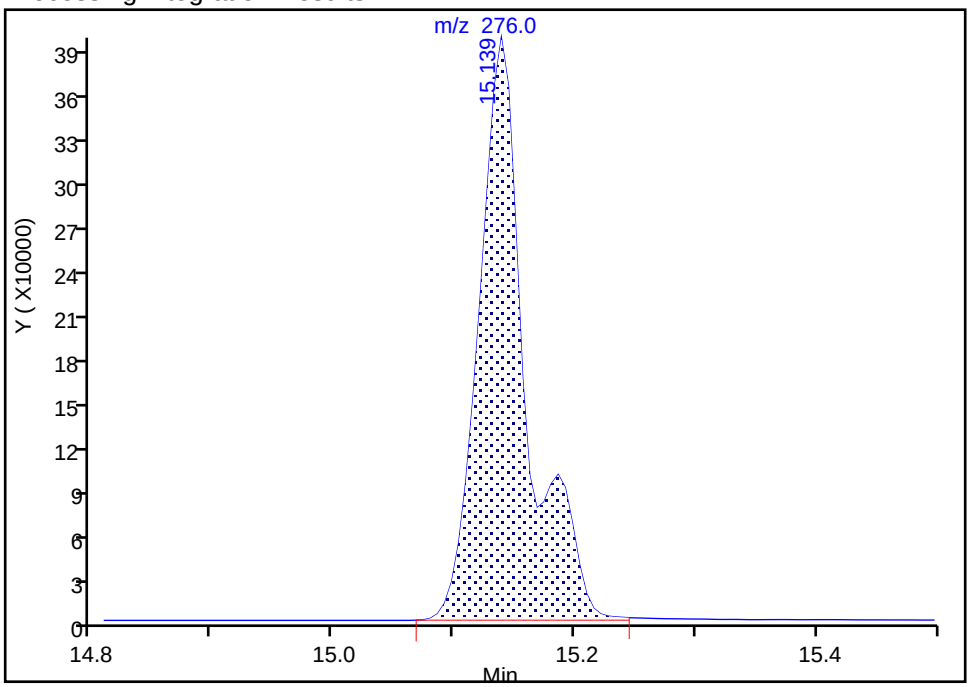
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077644.d
Injection Date: 22-Mar-2018 08:43:30 Instrument ID: CBNAMS12
Lims ID: ccvis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

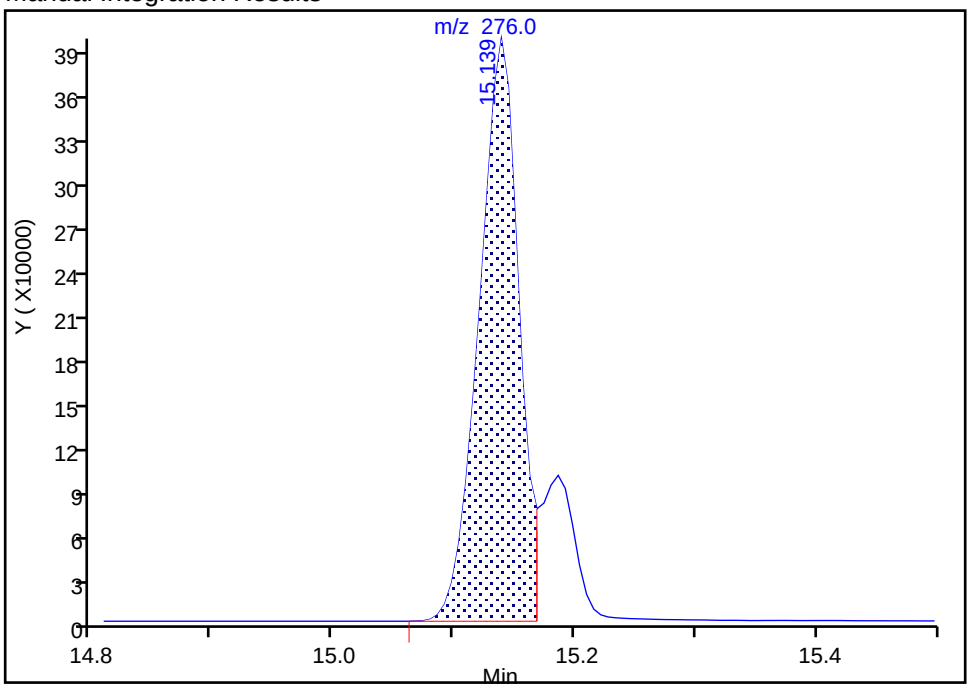
Processing Integration Results

RT: 15.14
Area: 1076928
Amount: 68.660836
Amount Units: ug/ml



Manual Integration Results

RT: 15.14
Area: 901684
Amount: 57.487944
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 09:09:16
Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505174/3 Calibration Date: 03/22/2018 09:13

Instrument ID: CBNAMS12 Calib Start Date: 03/15/2018 18:27

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/15/2018 20:42

Lab File ID: L2077645.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.236	1.261	0.0100	51000	50000	2.0	20.0
Caprolactam	Ave	0.0850	0.0938	0.0100	55100	50000	10.2	20.0
Atrazine	Ave	0.1997	0.2169	0.0100	54300	50000	8.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077645.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:13:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-003
Operator ID: Instrument ID: CBNAMS12
Sublist: chrom-8270_12R_9*sub15

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:44:52 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:44:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.152	4.152	0.000	93	254449	50.0	51.0	
* 13 1,4-Dichlorobenzene-d4	152	4.563	4.563	0.000	97	161438	40.0	40.0	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	100	647814	40.0	40.0	
40 Caprolactam	113	6.151	6.151	0.000	86	75914	50.0	55.1	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	99	319401	40.0	40.0	
82 Atrazine	200	8.581	8.581	0.000	89	167222	50.0	54.3	
* 85 Phenanthrene-d10	188	8.839	8.839	0.000	99	616921	40.0	40.0	
* 100 Chrysene-d12	240	11.510	11.510	0.000	99	583787	40.0	40.0	
* 107 Perylene-d12	264	13.480	13.480	0.000	97	628378	40.0	40.0	

Reagents:

SV_IC-S_L6_00034 Amount Added: 1.00 Units: mL

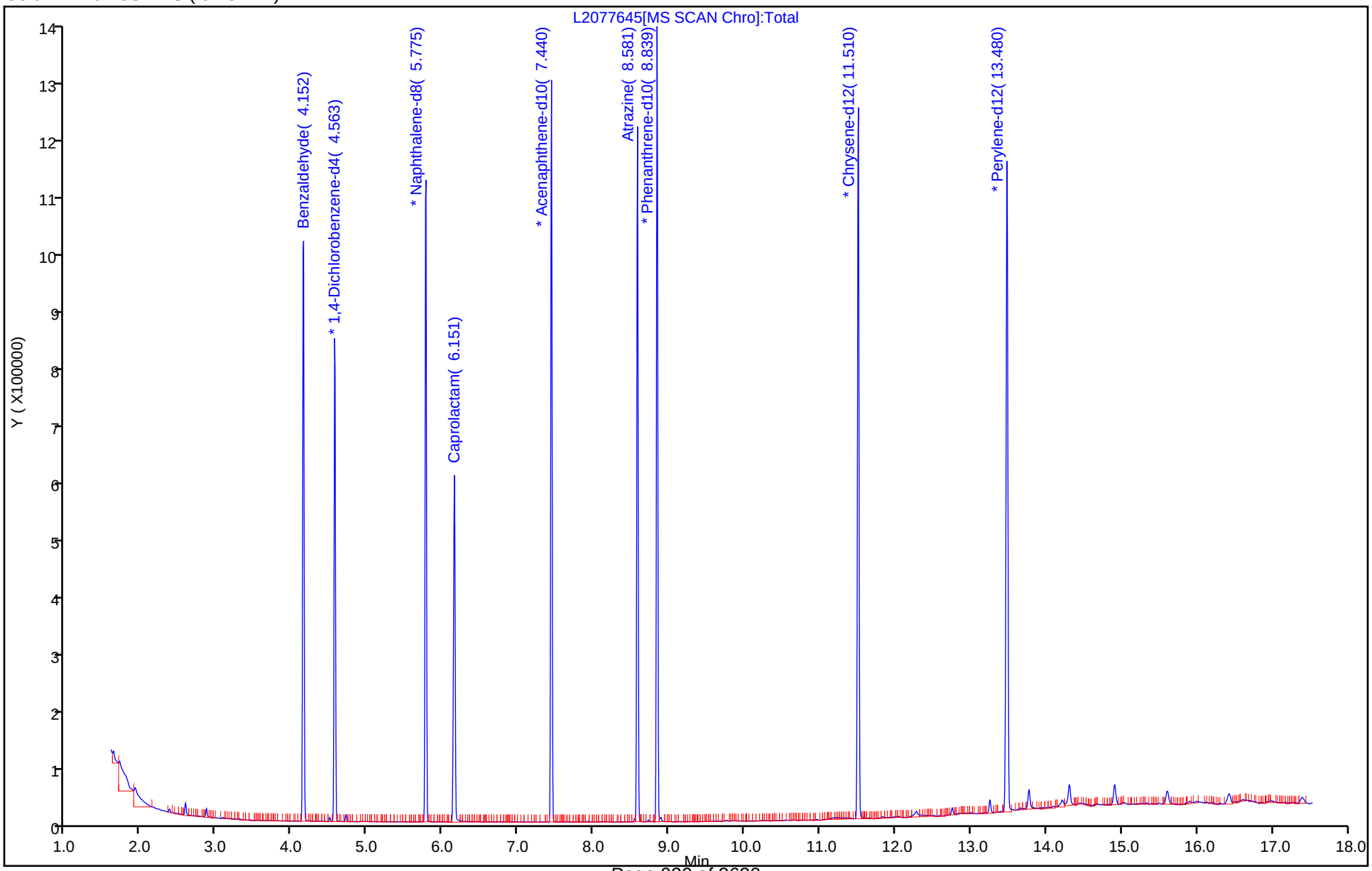
Report Date: 22-Mar-2018 15:44:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077645.d

Injection Date:	22-Mar-2018 09:13:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-500035/17 Calibration Date: 02/27/2018 21:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00472.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6102	0.6336	0.0100	5190	5000	3.8	30.0
N-Nitrosodimethylamine	Ave	0.9809	0.998		5090	5000	1.7	30.0
Pyridine	Ave	1.696	1.804		10600	10000	6.3	30.0
Phenol	Ave	2.071	2.128	0.8000	5140	5000	2.7	30.0
Aniline	Ave	2.349	2.474		5270	5000	5.3	30.0
Bis(2-chloroethyl)ether	Ave	1.466	1.537	0.7000	5240	5000	4.9	30.0
2-Chlorophenol	Ave	1.470	1.501	0.8000	5110	5000	2.1	30.0
n-Decane	Ave	2.175	2.271	0.0100	5220	5000	4.4	30.0
1,3-Dichlorobenzene	Ave	1.609	1.634		5080	5000	1.5	30.0
1,4-Dichlorobenzene	Ave	1.617	1.663		5140	5000	2.8	30.0
Benzyl alcohol	Ave	0.9159	0.9000	0.0100	4910	5000	-1.7	30.0
1,2-Dichlorobenzene	Ave	1.528	1.579		5170	5000	3.4	30.0
2-Methylphenol	Ave	1.297	1.340	0.7000	5170	5000	3.3	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.721	2.800	0.0100	5150	5000	2.9	30.0
N-Methylaniline	Lin2		2.255		5200	5000	4.0	30.0
Acetophenone	Ave	1.967	2.066	0.0100	5250	5000	5.0	30.0
N-Nitrosodi-n-propylamine	Ave	1.106	1.127	0.5000	5100	5000	2.0	30.0
3 & 4 Methylphenol	Ave	1.388	1.547		5570	5000	11.5	30.0
4-Methylphenol	Ave	1.363	1.547	0.6000	5680	5000	13.5	30.0
Hexachloroethane	Ave	0.6181	0.6272	0.3000	5070	5000	1.5	30.0
Nitrobenzene	Ave	0.6519	0.6742	0.2000	5170	5000	3.4	30.0
n,n'-Dimethylaniline	Lin2		2.290	0.0100	5290	5000	5.8	30.0
Isophorone	Ave	0.6424	0.6538	0.4000	5090	5000	1.8	30.0
2-Nitrophenol	Ave	0.1693	0.1679	0.1000	4960	5000	-0.8	30.0
2,4-Dimethylphenol	Ave	0.3015	0.3115	0.2000	5170	5000	3.3	30.0
Bis(2-chloroethoxy)methane	Ave	0.4148	0.4268	0.3000	5140	5000	2.9	30.0
Benzoic acid	Qua		0.1252		4730	5000	-5.3	30.0
2,4-Dichlorophenol	Ave	0.2543	0.2599	0.2000	5110	5000	2.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2892	0.2935		5070	5000	1.5	30.0
Naphthalene	Ave	1.021	1.028	0.7000	5040	5000	0.7	30.0
4-Chloroaniline	Ave	0.4034	0.4173	0.0100	5170	5000	3.4	30.0
Hexachlorobutadiene	Ave	0.1500	0.1523	0.0100	5080	5000	1.5	30.0
4-Chloro-3-methylphenol	Ave	0.2640	0.2618		4960	5000	-0.8	30.0
2-Methylnaphthalene	Ave	0.6456	0.6623	0.4000	5130	5000	2.6	30.0
1-Methylnaphthalene	Ave	0.6065	0.6105	0.0100	5030	5000	0.7	30.0
Hexachlorocyclopentadiene	Ave	0.3809	0.3662	0.0500	4810	5000	-3.9	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6348	0.6505	0.0100	5120	5000	2.5	30.0
2-tertbutyl-4-methylphenol	Ave	0.3716	0.3858	0.0100	5190	5000	3.8	30.0
2,4,6-Trichlorophenol	Ave	0.3962	0.3971	0.2000	5010	5000	0.2	30.0
2,4,5-Trichlorophenol	Ave	0.4159	0.4100	0.2000	4930	5000	-1.4	30.0
1,1'-Biphenyl	Ave	1.822	1.819	0.0100	4990	5000	-0.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-500035/17 Calibration Date: 02/27/2018 21:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00472.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.371	1.370	0.8000	5000	5000	-0.0	30.0
Phenyl ether	Ave	0.8657	0.9160	0.0100	5290	5000	5.8	30.0
2-Nitroaniline	Ave	0.5441	0.5686	0.0100	5230	5000	4.5	30.0
1,3-Dimethylnaphthalene	Ave	1.109	1.153	0.0100	5200	5000	3.9	30.0
Dimethyl phthalate	Ave	1.406	1.394	0.0100	4960	5000	-0.9	30.0
Coumarin	Ave	0.1898	0.1993	0.0100	5250	5000	5.0	30.0
2,6-Dinitrotoluene	Ave	0.3012	0.3153	0.2000	5230	5000	4.7	30.0
Acenaphthylene	Ave	2.047	2.091	0.9000	5110	5000	2.1	30.0
3-Nitroaniline	Ave	0.3816	0.3854	0.0100	5050	5000	1.0	30.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.017	1.023	0.0100	5030	5000	0.6	30.0
Acenaphthene	Ave	1.250	1.265	0.9000	5060	5000	1.1	30.0
2,4-Dinitrophenol	Qua		0.1509	0.0100	8960	10000	-10.4	30.0
4-Nitrophenol	Ave	0.2818	0.2803	0.0100	9950	10000	-0.5	30.0
2,4-Dinitrotoluene	Ave	0.3955	0.4081	0.2000	5160	5000	3.2	30.0
Dibenzofuran	Ave	1.819	1.855	0.8000	5100	5000	1.9	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3090	0.3007	0.0100	4870	5000	-2.7	30.0
Diethyl phthalate	Ave	1.405	1.393	0.0100	4960	5000	-0.8	30.0
Fluorene	Ave	1.407	1.416	0.9000	5030	5000	0.6	30.0
4-Chlorophenyl phenyl ether	Ave	0.6205	0.6414	0.4000	5170	5000	3.4	30.0
4-Nitroaniline	Ave	0.3704	0.3943	0.0100	5320	5000	6.4	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1098	0.1062	0.0100	9680	10000	-3.2	30.0
N-Nitrosodiphenylamine	Ave	0.5787	0.5902	0.0100	5100	5000	2.0	30.0
1,2-Diphenylhydrazine	Ave	0.9403	0.9664	0.0100	5140	5000	2.8	30.0
4-Bromophenyl phenyl ether	Ave	0.2174	0.2157	0.1000	4960	5000	-0.8	30.0
Hexachlorobenzene	Ave	0.2293	0.2356	0.1000	5140	5000	2.8	30.0
Pentachlorophenol	Lin2		0.1102	0.0500	9100	10000	-9.0	30.0
Pentachloronitrobenzene	Ave	0.0971	0.0969	0.0100	4990	5000	-0.2	30.0
n-Octadecane	Ave	0.7051	0.6984	0.0100	4950	5000	-1.0	30.0
Phenanthrene	Ave	1.151	1.172	0.7000	5090	5000	1.8	30.0
Anthracene	Ave	1.174	1.182	0.7000	5030	5000	0.7	30.0
Carbazole	Ave	1.032	1.062	0.0100	5150	5000	2.9	30.0
Di-n-butyl phthalate	Ave	1.204	1.172	0.0100	4870	5000	-2.7	30.0
Fluoranthene	Ave	1.102	1.117	0.6000	5070	5000	1.4	30.0
Benzidine	Qua		0.6430		5580	5000	11.7	30.0
Pyrene	Ave	1.427	1.460	0.6000	5120	5000	2.3	30.0
Bisphenol-A	Ave	0.5281	0.5724		5420	5000	8.4	30.0
Butyl benzyl phthalate	Ave	0.5992	0.5848	0.0100	4880	5000	-2.4	30.0
Carbamazepine	Qua		0.4536	0.0100	4910	5000	-1.8	30.0
3,3'-Dichlorobenzidine	QuaF		0.4542	0.0100	5780	5000	15.7	30.0
Benzo[a]anthracene	Ave	1.183	1.190	0.8000	5030	5000	0.6	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-500035/17 Calibration Date: 02/27/2018 21:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00472.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.149	1.167	0.7000	5080	5000	1.5	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7535	0.7770	0.0100	5160	5000	3.1	30.0
Di-n-octyl phthalate	Ave	1.272	1.183	0.0100	4650	5000	-7.0	30.0
Benzo[b]fluoranthene	Ave	1.131	1.144	0.7000	5060	5000	1.1	30.0
Benzo[k]fluoranthene	Ave	1.178	1.242	0.7000	5270	5000	5.5	30.0
Benzo[a]pyrene	Ave	1.093	1.136	0.7000	5200	5000	4.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.996	1.040	0.5000	5220	5000	4.4	30.0
Dibenz(a,h)anthracene	Ave	1.025	1.105	0.4000	5390	5000	7.8	30.0
Benzo[g,h,i]perylene	Ave	1.124	1.171	0.5000	5210	5000	4.2	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Feb-2018 21:34:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-017
Operator ID: Instrument ID: CBNAMS18
Sublist:

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 12:36:15 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: asfawa Date: 28-Feb-2018 15:38:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.767	1.764	0.003	97	42478	5.00	5.19	
	2 N-Nitrosodimethylamine	74	1.975	1.971	0.004	84	66896	5.00	5.09	
	3 Pyridine	79	2.007	2.003	0.004	84	241865	10.0	10.6	
	7 Phenol	94	3.978	3.982	-0.004	98	142676	5.00	5.14	
	8 Aniline	93	3.991	3.995	-0.004	95	165872	5.00	5.27	
	9 Bis(2-chloroethyl)ether	93	4.046	4.049	-0.003	90	103064	5.00	5.24	
	10 Benzonitrile	103	4.065	4.068	-0.003	99	198740	NC	NC	
	11 2-Chlorophenol	128	4.113	4.113	0.000	92	100624	5.00	5.11	
	12 n-Decane	43	4.157	4.158	-0.001	94	152287	5.00	5.22	
	13 1,3-Dichlorobenzene	146	4.253	4.254	-0.001	93	109551	5.00	5.08	
*	14 1,4-Dichlorobenzene-d4	152	4.307	4.304	0.003	98	107274	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.323	4.324	-0.001	93	111478	5.00	5.14	
	16 Benzyl alcohol	108	4.435	4.439	-0.004	91	60342	5.00	4.91	
	17 1,2-Dichlorobenzene	146	4.470	4.471	-0.001	93	105873	5.00	5.17	
	18 2-Methylphenol	108	4.553	4.557	-0.004	94	89851	5.00	5.17	
	19 2,2'-oxybis[1-chloropropan	45	4.566	4.567	-0.001	93	187730	5.00	5.15	
	20 N-Methylaniline	106	4.681	4.682	-0.001	93	151164	5.00	5.20	
	22 N-Nitrosodi-n-propylamine	70	4.687	4.691	-0.004	91	75577	5.00	5.10	
	21 Acetophenone	105	4.687	4.691	-0.004	89	138524	5.00	5.25	
	23 3 & 4 Methylphenol	108	4.703	4.707	-0.004	75	103724	5.00	5.57	
	24 4-Methylphenol	108	4.703	4.707	-0.004	93	103724	5.00	5.68	
	25 Hexachloroethane	117	4.793	4.793	0.000	92	42053	5.00	5.07	
	28 Nitrobenzene	123	4.850	4.851	-0.001	90	45199	5.00	5.17	
	29 n,n'-Dimethylaniline	120	4.854	4.857	-0.003	93	153510	5.00	5.29	
	30 Isophorone	82	5.077	5.078	-0.001	99	176075	5.00	5.09	
	32 2-Nitrophenol	139	5.157	5.158	-0.001	88	45212	5.00	4.96	
	33 2,4-Dimethylphenol	122	5.208	5.209	-0.001	90	83896	5.00	5.17	
	34 Bis(2-chloroethoxy)methane	93	5.288	5.289	-0.001	94	114948	5.00	5.14	
	35 Benzoic acid	122	5.297	5.320	-0.023	92	33704	5.00	4.73	
	36 2,4-Dichlorophenol	162	5.393	5.394	-0.001	93	69986	5.00	5.11	
	37 1,2,4-Trichlorobenzene	180	5.467	5.467	0.000	94	79054	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 38 Naphthalene-d8	136	5.518	5.516	0.002	99	430904	8.00	8.00	
39 Naphthalene	128	5.537	5.541	-0.004	99	276905	5.00	5.04	
40 4-Chloroaniline	127	5.594	5.595	-0.001	95	112397	5.00	5.17	
41 Hexachlorobutadiene	225	5.665	5.669	-0.004	93	41014	5.00	5.08	
43 4-Chloro-3-methylphenol	107	6.070	6.071	-0.001	98	70513	5.00	4.96	
44 2-Methylnaphthalene	142	6.198	6.199	-0.001	84	178359	5.00	5.13	
45 1-Methylnaphthalene	142	6.290	6.292	-0.002	93	164411	5.00	5.03	
46 Hexachlorocyclopentadiene	237	6.354	6.359	-0.005	95	38242	5.00	4.81	
47 1,2,4,5-Tetrachlorobenzene	216	6.361	6.362	-0.001	96	67933	5.00	5.12	
48 2-tertbutyl-4-methylphenol	149	6.399	6.400	-0.001	89	103904	5.00	5.19	
49 2,4,6-Trichlorophenol	196	6.472	6.474	-0.002	86	41468	5.00	5.01	
50 2,4,5-Trichlorophenol	196	6.508	6.512	-0.004	93	42813	5.00	4.93	
52 1,1'-Biphenyl	154	6.642	6.643	-0.001	97	189971	5.00	4.99	
53 2-Chloronaphthalene	162	6.658	6.659	-0.001	97	143090	5.00	5.00	
54 Phenyl ether	170	6.741	6.742	-0.001	88	95659	5.00	5.29	
55 2-Nitroaniline	65	6.757	6.762	-0.005	95	59382	5.00	5.23	
57 1,3-Dimethylnaphthalene	156	6.865	6.867	-0.002	89	120361	5.00	5.20	
59 Dimethyl phthalate	163	6.932	6.937	-0.005	98	145587	5.00	4.96	
60 Coumarin	146	6.948	6.953	-0.005	79	53672	5.00	5.25	
61 2,6-Dinitrotoluene	165	6.984	6.989	-0.005	92	32925	5.00	5.23	
62 Acenaphthylene	152	7.047	7.053	-0.005	97	218361	5.00	5.11	
63 3-Nitroaniline	138	7.146	7.148	-0.002	93	40252	5.00	5.05	
* 64 Acenaphthene-d10	164	7.185	7.182	0.003	99	167096	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.214	7.216	-0.002	98	106831	5.00	5.03	
66 Acenaphthene	154	7.214	7.216	-0.002	98	132059	5.00	5.06	
67 2,4-Dinitrophenol	184	7.242	7.248	-0.006	88	31519	10.0	8.96	
68 4-Nitrophenol	65	7.329	7.334	-0.005	93	58553	10.0	9.95	
69 2,4-Dinitrotoluene	165	7.364	7.369	-0.005	91	42624	5.00	5.16	
70 Dibenzofuran	168	7.377	7.382	-0.005	95	193676	5.00	5.10	
72 2,3,4,6-Tetrachlorophenol	232	7.501	7.503	-0.002	89	31403	5.00	4.87	
73 Diethyl phthalate	149	7.603	7.606	-0.003	97	145467	5.00	4.96	
75 Fluorene	166	7.699	7.702	-0.003	93	147857	5.00	5.03	
74 4-Chlorophenyl phenyl ethe	204	7.703	7.705	-0.002	84	66988	5.00	5.17	
76 4-Nitroaniline	138	7.722	7.730	-0.008	95	41174	5.00	5.32	
77 4,6-Dinitro-2-methylphenol	198	7.751	7.756	-0.005	74	38114	10.0	9.68	
78 N-Nitrosodiphenylamine	169	7.814	7.820	-0.006	98	105865	5.00	5.10	
79 1,2-Diphenylhydrazine	77	7.853	7.855	-0.002	99	173357	5.00	5.14	
81 4-Bromophenyl phenyl ether	248	8.162	8.165	-0.003	83	38684	5.00	4.96	
82 Hexachlorobenzene	284	8.226	8.229	-0.003	99	42268	5.00	5.14	
84 Pentachlorophenol	266	8.415	8.417	-0.002	92	39549	10.0	9.10	
85 Pentachloronitrobenzene	237	8.424	8.427	-0.003	87	17387	5.00	4.99	
86 n-Octadecane	57	8.501	8.504	-0.003	91	125277	5.00	4.95	
* 87 Phenanthrene-d10	188	8.584	8.583	0.001	99	287003	8.00	8.00	
88 Phenanthrene	178	8.607	8.609	-0.003	98	210246	5.00	5.09	
89 Anthracene	178	8.651	8.654	-0.003	98	212075	5.00	5.03	
90 Carbazole	167	8.808	8.814	-0.006	96	190516	5.00	5.15	
91 Di-n-butyl phthalate	149	9.149	9.152	-0.003	99	210173	5.00	4.87	
92 Fluoranthene	202	9.727	9.730	-0.003	97	200355	5.00	5.07	
93 Benzidine	184	9.861	9.864	-0.003	99	115347	5.00	5.58	
94 Pyrene	202	9.941	9.944	-0.003	96	202769	5.00	5.12	
95 Bisphenol-A	213	10.001	10.005	-0.004	97	79490	5.00	5.42	
97 Butyl benzyl phthalate	149	10.595	10.596	-0.001	97	81208	5.00	4.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 Carbamazepine	193	10.697	10.704	-0.007	92	62989	5.00	4.91	
100 3,3'-Dichlorobenzidine	252	11.160	11.164	-0.004	98	63066	5.00	5.78	
101 Benzo[a]anthracene	228	11.176	11.180	-0.004	99	165307	5.00	5.03	
* 102 Chrysene-d12	240	11.189	11.186	0.003	98	222183	8.00	8.00	
104 Chrysene	228	11.218	11.222	-0.004	98	162089	5.00	5.08	
103 Bis(2-ethylhexyl) phthalat	149	11.247	11.247	0.000	88	107891	5.00	5.16	
105 Di-n-octyl phthalate	149	12.054	12.058	-0.004	97	170228	5.00	4.65	
106 Benzo[b]fluoranthene	252	12.514	12.521	-0.007	97	164572	5.00	5.06	
107 Benzo[k]fluoranthene	252	12.552	12.560	-0.008	98	178745	5.00	5.27	M
108 Benzo[a]pyrene	252	12.954	12.962	-0.008	96	163523	5.00	5.20	M
* 109 Perylene-d12	264	13.037	13.037	0.000	96	230231	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.547	14.559	-0.012	97	149593	5.00	5.22	M
111 Dibenz(a,h)anthracene	278	14.589	14.597	-0.008	96	158983	5.00	5.39	M
112 Benzo[g,h,i]perylene	276	14.956	14.971	-0.015	94	168538	5.00	5.21	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_ICV LVI_00024 Amount Added: 1.00 Units: mL

Report Date: 28-Feb-2018 15:38:29 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D

Injection Date: 27-Feb-2018 21:34:30 Instrument ID: CBNAMS18 Operator ID:

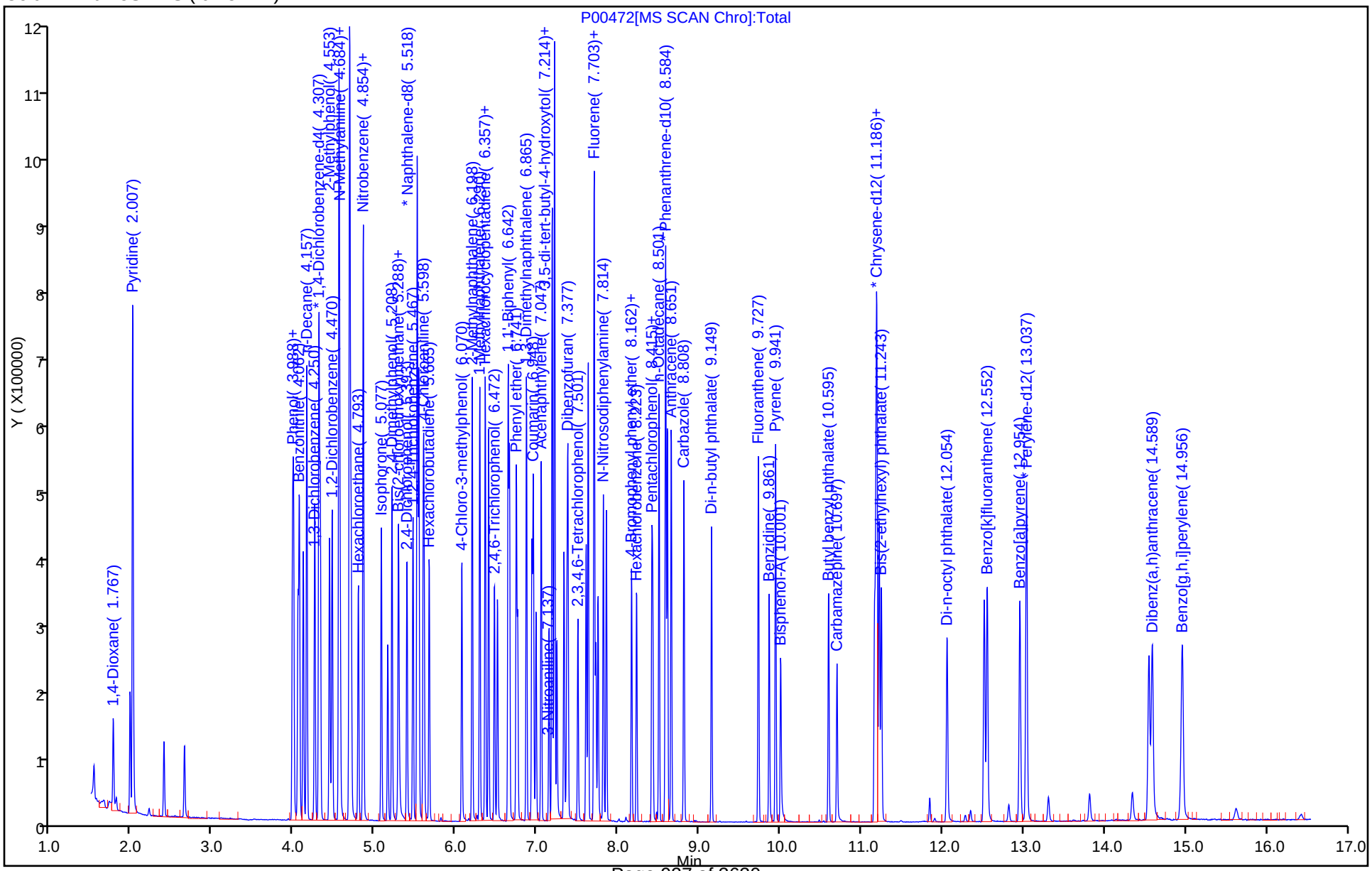
Lims ID: ICV Worklist Smp#: 17

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 17

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

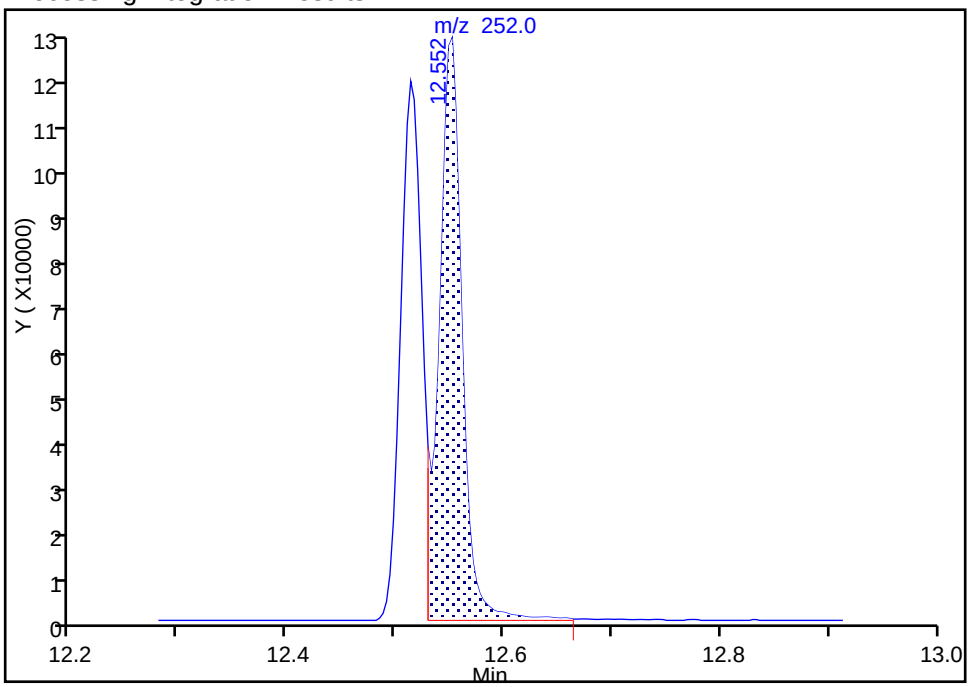
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D
Injection Date: 27-Feb-2018 21:34:30 Instrument ID: CBNAMS18
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

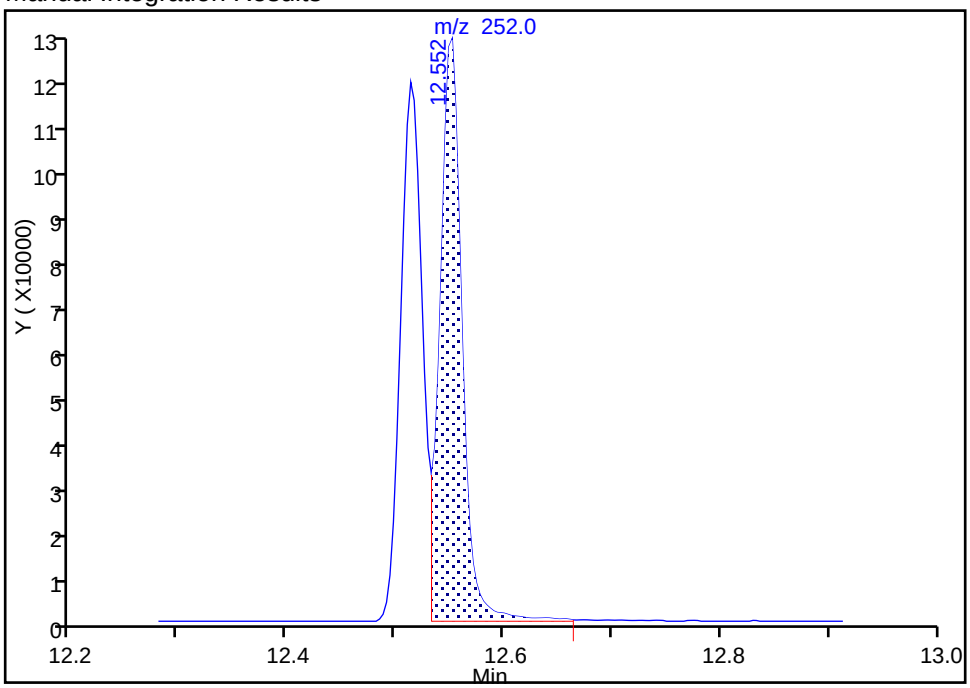
Processing Integration Results

RT: 12.55
Area: 185933
Amount: 5.484900
Amount Units: ug/ml



Manual Integration Results

RT: 12.55
Area: 178745
Amount: 5.272859
Amount Units: ug/ml



Reviewer: asfawa, 28-Feb-2018 09:19:29
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

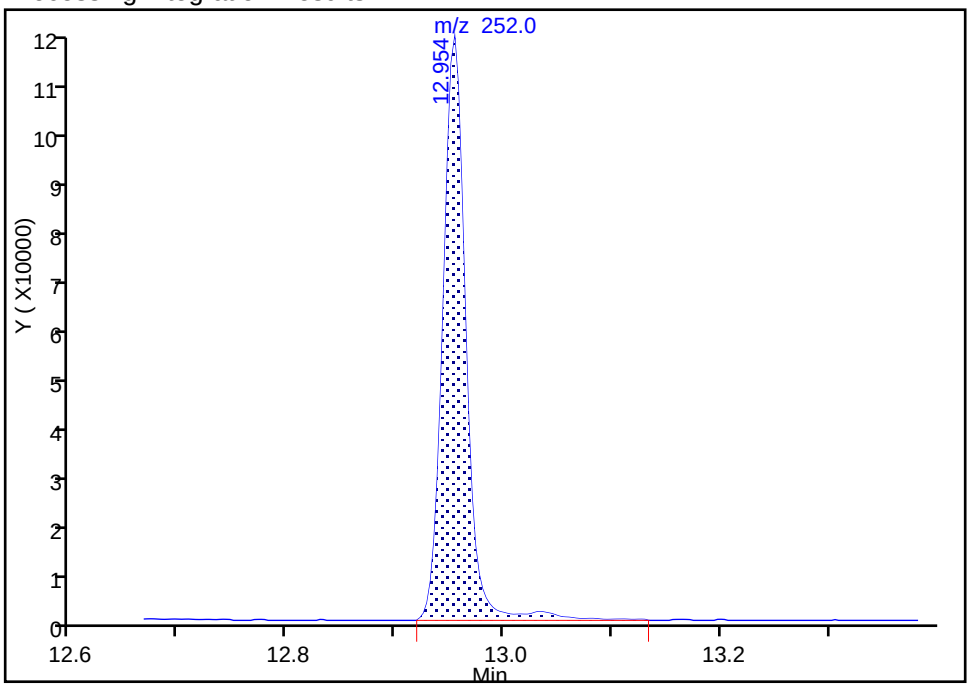
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D
Injection Date: 27-Feb-2018 21:34:30 Instrument ID: CBNAMS18
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

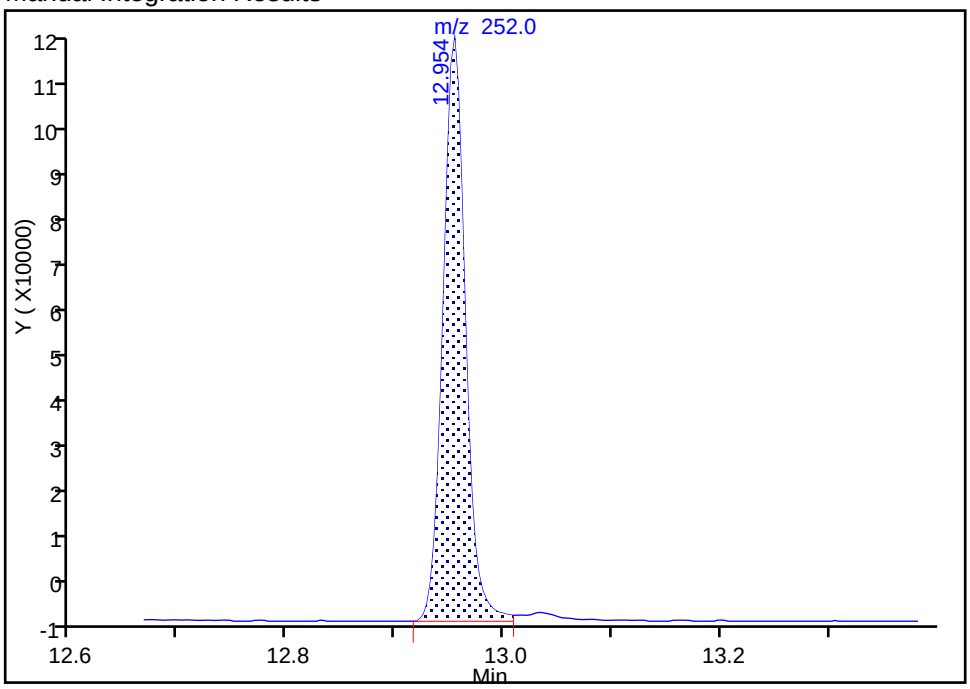
Processing Integration Results

RT: 12.95
Area: 168275
Amount: 5.351988
Amount Units: ug/ml



Manual Integration Results

RT: 12.95
Area: 163523
Amount: 5.200850
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 08:15:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

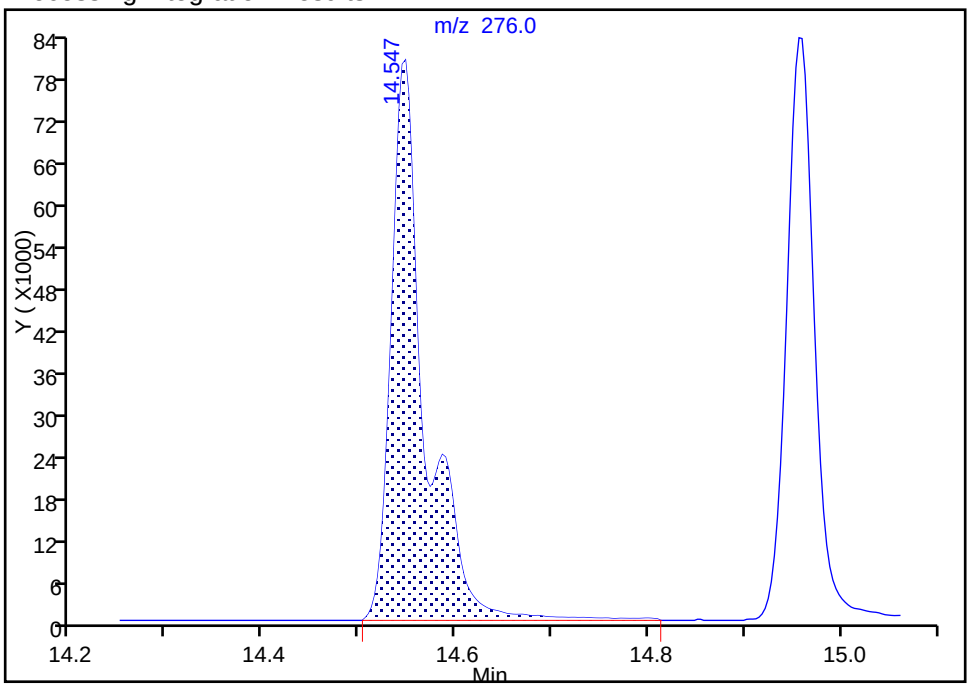
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D
Injection Date: 27-Feb-2018 21:34:30 Instrument ID: CBNAMS18
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

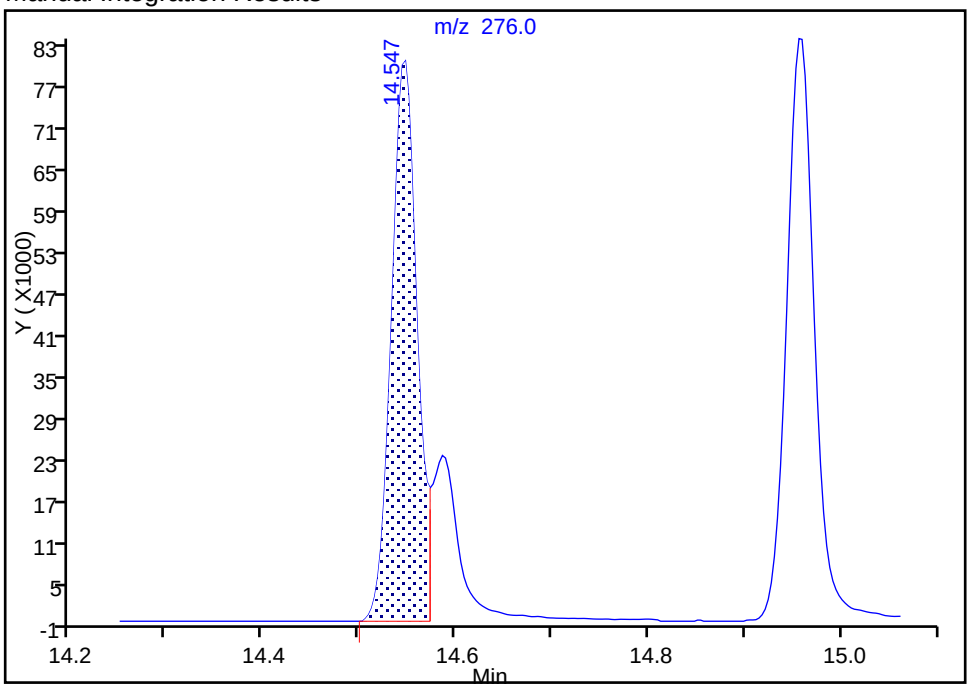
Processing Integration Results

RT: 14.55
Area: 196642
Amount: 6.863218
Amount Units: ug/ml



Manual Integration Results

RT: 14.55
Area: 149593
Amount: 5.221109
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Feb-2018 08:15:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

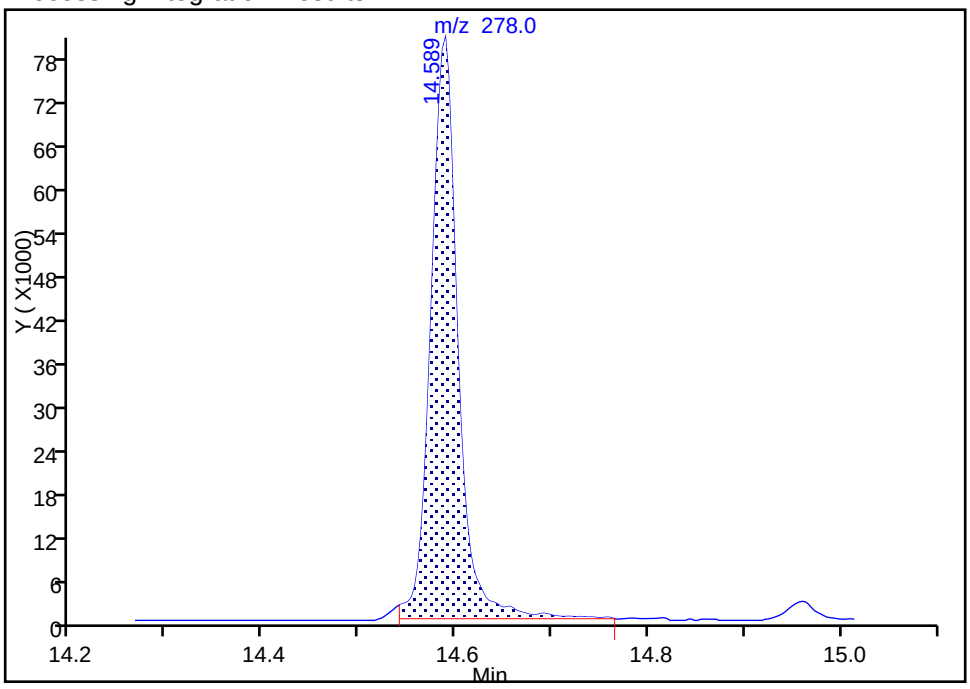
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00472.D				
Injection Date:	27-Feb-2018 21:34:30	Instrument ID:	CBNAMS18		
Lims ID:	ICV				
Client ID:					
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

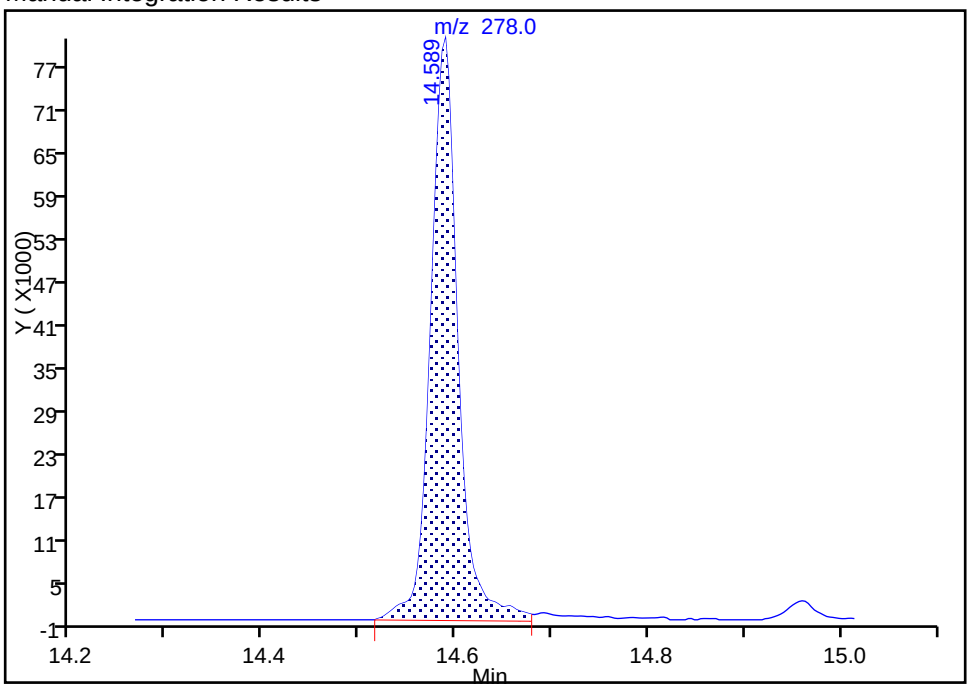
Processing Integration Results

RT: 14.59
Area: 156430
Amount: 5.305557
Amount Units: ug/ml



Manual Integration Results

RT: 14.59
Area: 158983
Amount: 5.392146
Amount Units: ug/ml



Reviewer: asfawa, 28-Feb-2018 09:19:54

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-500035/18 Calibration Date: 02/27/2018 21:58

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 18:47

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 21:11

Lab File ID: P00473.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.362	1.408	0.0100	5170	5000	3.4	30.0
Caprolactam	Ave	0.0732	0.0788	0.0100	5390	5000	7.8	30.0
Atrazine	Ave	0.1802	0.1909	0.0100	5300	5000	5.9	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00473.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Feb-2018 21:58:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-018
Operator ID: Instrument ID: CBNAMS18
Sublist:

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 11:40:48 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 28-Feb-2018 08:17:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.886	3.889	-0.003	93	98609	5.00	5.17	
* 14 1,4-Dichlorobenzene-d4	152	4.304	4.304	0.000	98	112030	8.00	8.00	
* 38 Naphthalene-d8	136	5.516	5.516	0.000	99	436535	8.00	8.00	
42 Caprolactam	113	5.886	5.893	-0.007	87	21510	5.00	5.39	
* 64 Acenaphthene-d10	164	7.182	7.182	0.000	99	170089	8.00	8.00	
83 Atrazine	200	8.324	8.327	-0.003	85	34761	5.00	5.30	
* 87 Phenanthrene-d10	188	8.582	8.583	-0.001	99	291367	8.00	8.00	
* 102 Chrysene-d12	240	11.186	11.186	0.000	98	232981	8.00	8.00	
* 109 Perylene-d12	264	13.033	13.037	-0.004	98	219912	8.00	8.00	

Reagents:

SM_ICVLVI-Ben_00020 Amount Added: 1.00 Units: mL

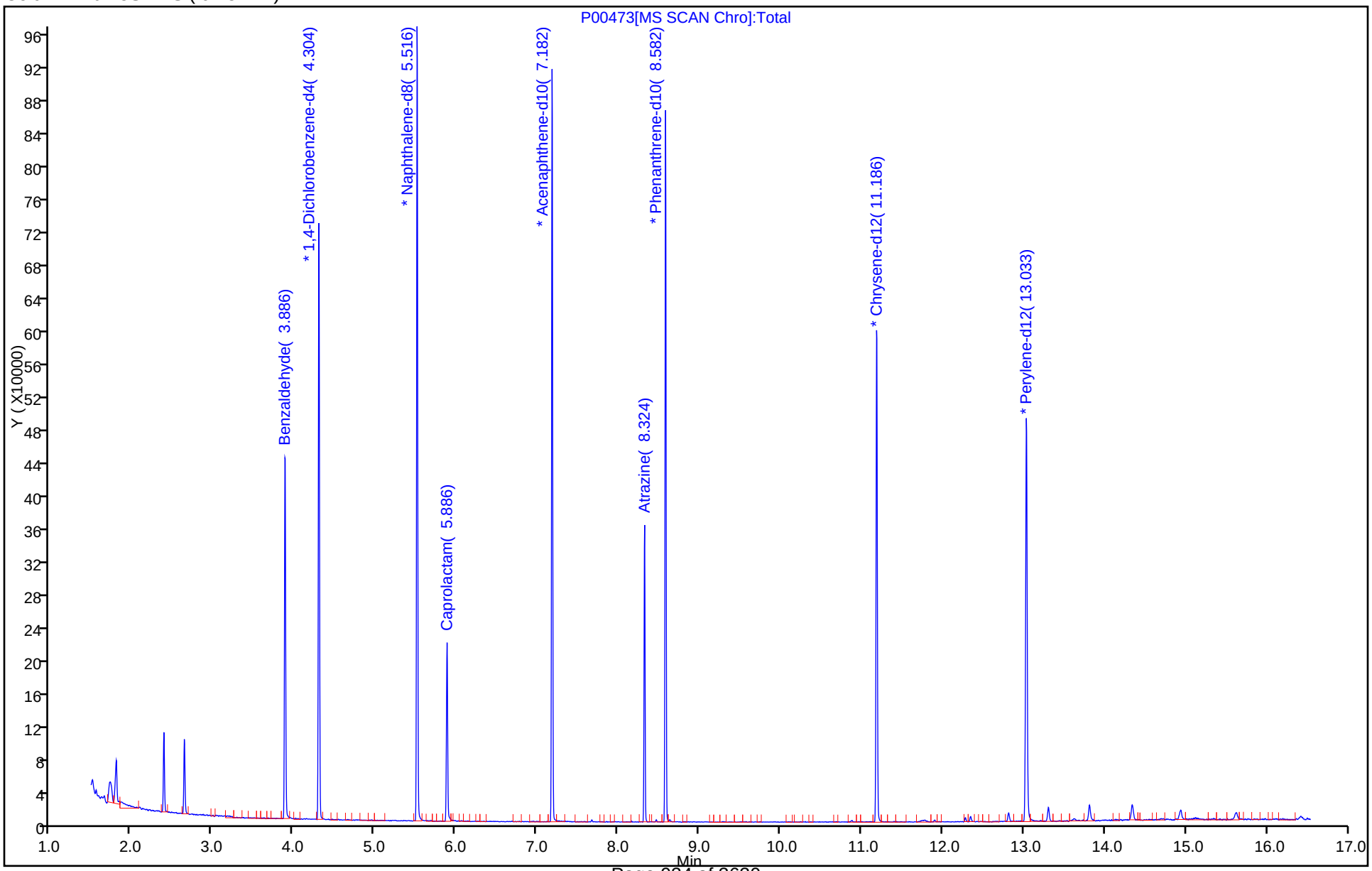
Report Date: 28-Feb-2018 11:41:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00473.D

Injection Date:	27-Feb-2018 21:58:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	18
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504609/2 Calibration Date: 03/19/2018 20:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00821.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6102	0.5284	0.0100	8660	10000	-13.4	20.0
N-Nitrosodimethylamine	Ave	0.9809	0.8879		9050	10000	-9.5	20.0
Pyridine	Ave	1.696	1.572		18500	20000	-7.3	20.0
Phenol	Ave	2.071	1.988	0.8000	9600	10000	-4.0	20.0
Aniline	Ave	2.349	2.285		9730	10000	-2.7	20.0
Bis(2-chloroethyl)ether	Ave	1.466	1.460	0.7000	9960	10000	-0.4	20.0
2-Chlorophenol	Ave	1.470	1.452	0.8000	9880	10000	-1.2	20.0
n-Decane	Ave	2.175	1.950	0.0100	8960	10000	-10.4	20.0
1,3-Dichlorobenzene	Ave	1.609	1.549		9620	10000	-3.8	20.0
1,4-Dichlorobenzene	Ave	1.617	1.578		9760	10000	-2.4	20.0
Benzyl alcohol	Ave	0.9159	0.9346	0.0100	10200	10000	2.0	20.0
1,2-Dichlorobenzene	Ave	1.528	1.490		9750	10000	-2.5	20.0
2-Methylphenol	Ave	1.297	1.275	0.7000	9830	10000	-1.7	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.721	2.576	0.0100	9470	10000	-5.3	20.0
N-Methylaniline	Lin2		2.204		10100	10000	1.2	20.0
Acetophenone	Ave	1.967	2.046	0.0100	10400	10000	4.0	20.0
N-Nitrosodi-n-propylamine	Ave	1.106	1.166	0.5000	10500	10000	5.5	20.0
3 & 4 Methylphenol	Ave	1.388	1.369		9860	10000	-1.4	20.0
4-Methylphenol	Ave	1.363	1.350	0.6000	9900	10000	-1.0	20.0
Hexachloroethane	Ave	0.6181	0.6024	0.3000	9750	10000	-2.5	20.0
Nitrobenzene	Ave	0.6519	0.6829	0.2000	10500	10000	4.8	20.0
n,n'-Dimethylaniline	Lin2		2.329	0.0100	10700	10000	7.3	20.0
Isophorone	Ave	0.6424	0.6795	0.4000	10600	10000	5.8	20.0
2-Nitrophenol	Ave	0.1693	0.1769	0.1000	10500	10000	4.5	20.0
2,4-Dimethylphenol	Ave	0.3015	0.3087	0.2000	10200	10000	2.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4148	0.4295	0.3000	10400	10000	3.5	20.0
Benzoic acid	Qua		0.1991		12400	10000	23.8*	20.0
2,4-Dichlorophenol	Ave	0.2543	0.2660	0.2000	10500	10000	4.6	20.0
1,2,4-Trichlorobenzene	Ave	0.2892	0.2911		10100	10000	0.6	20.0
Naphthalene	Ave	1.021	0.999	0.7000	9790	10000	-2.1	20.0
4-Chloroaniline	Ave	0.4034	0.4222	0.0100	10500	10000	4.7	20.0
Hexachlorobutadiene	Ave	0.1500	0.1550	0.0100	10300	10000	3.4	20.0
4-Chloro-3-methylphenol	Ave	0.2640	0.2896		11000	10000	9.7	20.0
2-Methylnaphthalene	Ave	0.6456	0.6767	0.4000	10500	10000	4.8	20.0
1-Methylnaphthalene	Ave	0.6065	0.6369	0.0100	10500	10000	5.0	20.0
Hexachlorocyclopentadiene	Ave	0.3809	0.4075	0.0500	10700	10000	7.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6348	0.6179	0.0100	9730	10000	-2.7	20.0
2-tertbutyl-4-methylphenol	Ave	0.3716	0.4243	0.0100	11400	10000	14.2	20.0
2,4,6-Trichlorophenol	Ave	0.3962	0.4123	0.2000	10400	10000	4.1	20.0
2,4,5-Trichlorophenol	Ave	0.4159	0.4464	0.2000	10700	10000	7.3	20.0
1,1'-Biphenyl	Ave	1.822	1.802	0.0100	9890	10000	-1.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504609/2 Calibration Date: 03/19/2018 20:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00821.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.371	1.345	0.8000	9810	10000	-1.9	20.0
Phenyl ether	Ave	0.8657	0.9057	0.0100	10500	10000	4.6	20.0
2-Nitroaniline	Ave	0.5441	0.5703	0.0100	10500	10000	4.8	20.0
1,3-Dimethylnaphthalene	Ave	1.109	1.160	0.0100	10500	10000	4.6	20.0
Dimethyl phthalate	Ave	1.406	1.548	0.0100	11000	10000	10.1	20.0
Coumarin	Ave	0.1898	0.2344	0.0100	12300	10000	23.5*	20.0
2,6-Dinitrotoluene	Ave	0.3012	0.3415	0.2000	11300	10000	13.4	20.0
Acenaphthylene	Ave	2.047	2.060	0.9000	10100	10000	0.6	20.0
3-Nitroaniline	Ave	0.3816	0.4135	0.0100	10800	10000	8.3	20.0
Acenaphthene	Ave	1.250	1.259	0.9000	10100	10000	0.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.017	1.122	0.0100	11000	10000	10.3	20.0
2,4-Dinitrophenol	Qua		0.2285	0.0100	23200	20000	15.9	20.0
4-Nitrophenol	Ave	0.2818	0.3171	0.0100	22500	20000	12.5	20.0
2,4-Dinitrotoluene	Ave	0.3955	0.4654	0.2000	11800	10000	17.7	20.0
Dibenzofuran	Ave	1.819	1.836	0.8000	10100	10000	0.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3090	0.3629	0.0100	11700	10000	17.4	20.0
Diethyl phthalate	Ave	1.405	1.611	0.0100	11500	10000	14.7	20.0
Fluorene	Ave	1.407	1.507	0.9000	10700	10000	7.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6205	0.6687	0.4000	10800	10000	7.8	20.0
4-Nitroaniline	Ave	0.3704	0.4010	0.0100	10800	10000	8.3	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1098	0.1288	0.0100	23500	20000	17.4	20.0
N-Nitrosodiphenylamine	Ave	0.5787	0.5735	0.0100	9910	10000	-0.9	20.0
1,2-Diphenylhydrazine	Ave	0.9403	0.8799	0.0100	9360	10000	-6.4	20.0
4-Bromophenyl phenyl ether	Ave	0.2174	0.2162	0.1000	9940	10000	-0.6	20.0
Hexachlorobenzene	Ave	0.2293	0.2241	0.1000	9770	10000	-2.3	20.0
Pentachlorophenol	Lin2		0.1301	0.0500	20000	20000	0.2	20.0
Pentachloronitrobenzene	Ave	0.0971	0.1102	0.0100	11400	10000	13.5	20.0
n-Octadecane	Ave	0.7051	0.6943	0.0100	9850	10000	-1.5	20.0
Phenanthrene	Ave	1.151	1.152	0.7000	10000	10000	0.0	20.0
Anthracene	Ave	1.174	1.193	0.7000	10200	10000	1.6	20.0
Carbazole	Ave	1.032	1.067	0.0100	10300	10000	3.3	20.0
Di-n-butyl phthalate	Ave	1.204	1.347	0.0100	11200	10000	11.9	20.0
Fluoranthene	Ave	1.102	1.156	0.6000	10500	10000	4.9	20.0
Benzidine	Qua		0.6301		10000	10000	0.0	20.0
Pyrene	Ave	1.427	1.378	0.6000	9660	10000	-3.4	20.0
Bisphenol-A	Ave	0.5281	0.6060		11500	10000	14.8	20.0
Butyl benzyl phthalate	Ave	0.5992	0.6479	0.0100	10800	10000	8.1	20.0
2,3,7,8-TCDD	Ave	0.1612	0.1225	0.0100	76.0	100	-24.0*	20.0
Carbamazepine	Qua		0.5411	0.0100	10300	10000	2.8	20.0
3,3'-Dichlorobenzidine	QuaF		0.4296	0.0100	9900	10000	-1.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504609/2 Calibration Date: 03/19/2018 20:34

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 15:38

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 18:23

Lab File ID: P00821.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.183	1.139	0.8000	9620	10000	-3.8	20.0
Chrysene	Ave	1.149	1.083	0.7000	9430	10000	-5.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7535	0.8538	0.0100	11300	10000	13.3	20.0
Di-n-octyl phthalate	Ave	1.272	1.644	0.0100	12900	10000	29.3*	20.0
Benzo[b]fluoranthene	Ave	1.131	1.241	0.7000	11000	10000	9.7	20.0
Benzo[k]fluoranthene	Ave	1.178	1.270	0.7000	10800	10000	7.8	20.0
Benzo[a]pyrene	Ave	1.093	1.214	0.7000	11100	10000	11.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.996	1.026	0.5000	10300	10000	3.0	20.0
Dibenz(a,h)anthracene	Ave	1.025	1.063	0.4000	10400	10000	3.8	20.0
Benzo[g,h,i]perylene	Ave	1.124	1.092	0.5000	9710	10000	-2.9	20.0
2-Fluorophenol (Surr)	Ave	1.444	1.374		9520	10000	-4.8	20.0
Phenol-d5 (Surr)	Ave	1.824	1.825		10000	10000	0.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3882	0.3838		9890	10000	-1.1	20.0
2-Fluorobiphenyl	Ave	1.604	1.601		9980	10000	-0.2	20.0
2,4,6-Tribromophenol (Surr)	Lin2		0.2193		10800	10000	7.7	20.0
Terphenyl-d14 (Surr)	Ave	1.001	0.9146		9140	10000	-8.6	20.0

Report Date: 20-Mar-2018 11:35:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00821.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Mar-2018 20:34:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-002
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:03 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: hamziy Date: 19-Mar-2018 21:01:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.620	1.620	0.000	98	59444	10.0	8.66	
	2 N-Nitrosodimethylamine	74	1.828	1.828	0.000	87	99880	10.0	9.05	
	3 Pyridine	79	1.856	1.856	0.000	85	353735	20.0	18.5	
$	4 2-Fluorophenol	112	2.938	2.938	0.000	92	154587	10.0	9.52	
$	6 Phenol-d5	99	3.841	3.841	0.000	99	205335	10.0	10.0	
	7 Phenol	94	3.851	3.851	0.000	99	223661	10.0	9.60	
	8 Aniline	93	3.854	3.854	0.000	97	257038	10.0	9.73	
	9 Bis(2-chloroethyl)ether	93	3.915	3.915	0.000	91	164251	10.0	9.96	
	10 Benzonitrile	103	3.928	3.928	0.000	100	325413	NC	NC	
	11 2-Chlorophenol	128	3.975	3.975	0.000	93	163350	10.0	9.88	
	12 n-Decane	43	4.023	4.023	0.000	93	219335	10.0	8.96	
	13 1,3-Dichlorobenzene	146	4.119	4.119	0.000	94	174216	10.0	9.62	
*	14 1,4-Dichlorobenzene-d4	152	4.170	4.170	0.000	97	89995	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.186	4.186	0.000	93	177525	10.0	9.76	
	16 Benzyl alcohol	108	4.308	4.308	0.000	91	105139	10.0	10.2	
	17 1,2-Dichlorobenzene	146	4.336	4.336	0.000	94	167619	10.0	9.75	
	18 2-Methylphenol	108	4.432	4.432	0.000	88	143446	10.0	9.83	
	19 2,2'-oxybis[1-chloropropan	45	4.439	4.439	0.000	94	289819	10.0	9.47	
	20 N-Methylaniline	106	4.554	4.554	0.000	97	247916	10.0	10.1	
	21 Acetophenone	105	4.560	4.560	0.000	91	230185	10.0	10.4	
	22 N-Nitrosodi-n-propylamine	70	4.563	4.563	0.000	91	131203	10.0	10.5	
	23 3 & 4 Methylphenol	108	4.582	4.582	0.000	63	154022	10.0	9.86	
	24 4-Methylphenol	108	4.582	4.582	0.000	97	151815	10.0	9.90	
	25 Hexachloroethane	117	4.659	4.659	0.000	93	67765	10.0	9.75	
$	27 Nitrobenzene-d5	82	4.707	4.707	0.000	90	176836	10.0	9.89	
	28 Nitrobenzene	123	4.723	4.723	0.000	91	76825	10.0	10.5	
	29 n,n'-Dimethylaniline	120	4.729	4.729	0.000	99	262024	10.0	10.7	
	30 Isophorone	82	4.953	4.953	0.000	99	313116	10.0	10.6	
	32 2-Nitrophenol	139	5.033	5.033	0.000	89	81520	10.0	10.5	
	33 2,4-Dimethylphenol	122	5.090	5.090	0.000	91	142271	10.0	10.2	
	34 Bis(2-chloroethoxy)methane	93	5.167	5.167	0.000	95	197918	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.199	5.199	0.000	90	91742	10.0	12.4	
36 2,4-Dichlorophenol	162	5.272	5.272	0.000	94	122563	10.0	10.5	
37 1,2,4-Trichlorobenzene	180	5.342	5.342	0.000	95	134131	10.0	10.1	
* 38 Naphthalene-d8	136	5.394	5.394	0.000	99	368644	8.00	8.00	
39 Naphthalene	128	5.416	5.416	0.000	99	460520	10.0	9.79	
40 4-Chloroaniline	127	5.473	5.473	0.000	96	194570	10.0	10.5	
41 Hexachlorobutadiene	225	5.544	5.544	0.000	93	71423	10.0	10.3	
43 4-Chloro-3-methylphenol	107	5.956	5.956	0.000	98	133426	10.0	11.0	
44 2-Methylnaphthalene	142	6.077	6.077	0.000	84	311846	10.0	10.5	
45 1-Methylnaphthalene	142	6.170	6.170	0.000	93	293494	10.0	10.5	
46 Hexachlorocyclopentadiene	237	6.237	6.237	0.000	96	81191	10.0	10.7	
47 1,2,4,5-Tetrachlorobenzene	216	6.240	6.240	0.000	95	123113	10.0	9.73	
48 2-tertbutyl-4-methylphenol	149	6.288	6.288	0.000	89	195511	10.0	11.4	
49 2,4,6-Trichlorophenol	196	6.355	6.355	0.000	87	82155	10.0	10.4	
50 2,4,5-Trichlorophenol	196	6.393	6.393	0.000	95	88933	10.0	10.7	
$ 51 2-Fluorobiphenyl	172	6.432	6.432	0.000	97	318956	10.0	9.98	
52 1,1'-Biphenyl	154	6.524	6.524	0.000	96	359023	10.0	9.89	
53 2-Chloronaphthalene	162	6.541	6.541	0.000	97	267910	10.0	9.81	
54 Phenyl ether	170	6.627	6.627	0.000	86	180460	10.0	10.5	
55 2-Nitroaniline	65	6.643	6.643	0.000	95	113629	10.0	10.5	
57 1,3-Dimethylnaphthalene	156	6.748	6.748	0.000	89	231065	10.0	10.5	
59 Dimethyl phthalate	163	6.825	6.825	0.000	97	308496	10.0	11.0	
60 Coumarin	146	6.835	6.835	0.000	78	107998	10.0	12.3	
61 2,6-Dinitrotoluene	165	6.873	6.873	0.000	93	68048	10.0	11.3	
62 Acenaphthylene	152	6.930	6.930	0.000	97	410460	10.0	10.1	
63 3-Nitroaniline	138	7.036	7.036	0.000	93	82375	10.0	10.8	
* 64 Acenaphthene-d10	164	7.065	7.065	0.000	99	159392	8.00	8.00	
66 Acenaphthene	154	7.097	7.097	0.000	97	250804	10.0	10.1	
65 3,5-di-tert-butyl-4-hydrox	205	7.100	7.100	0.000	98	223602	10.0	11.0	
67 2,4-Dinitrophenol	184	7.132	7.132	0.000	91	91068	20.0	23.2	
68 4-Nitrophenol	65	7.225	7.225	0.000	93	126367	20.0	22.5	
69 2,4-Dinitrotoluene	165	7.253	7.253	0.000	94	92720	10.0	11.8	
70 Dibenzofuran	168	7.263	7.263	0.000	95	365873	10.0	10.1	
72 2,3,4,6-Tetrachlorophenol	232	7.388	7.388	0.000	91	72300	10.0	11.7	
73 Diethyl phthalate	149	7.496	7.496	0.000	97	321047	10.0	11.5	
75 Fluorene	166	7.586	7.586	0.000	95	300231	10.0	10.7	
74 4-Chlorophenyl phenyl ethe	204	7.589	7.589	0.000	85	133240	10.0	10.8	
76 4-Nitroaniline	138	7.615	7.615	0.000	94	79895	10.0	10.8	
77 4,6-Dinitro-2-methylphenol	198	7.643	7.643	0.000	78	98647	20.0	23.5	
78 N-Nitrosodiphenylamine	169	7.704	7.704	0.000	99	219572	10.0	9.91	
79 1,2-Diphenylhydrazine	77	7.739	7.739	0.000	99	336876	10.0	9.36	
$ 80 2,4,6-Tribromophenol	330	7.816	7.816	0.000	93	43699	10.0	10.8	
81 4-Bromophenyl phenyl ether	248	8.049	8.049	0.000	85	82757	10.0	9.94	
82 Hexachlorobenzene	284	8.110	8.110	0.000	99	85796	10.0	9.77	
84 Pentachlorophenol	266	8.302	8.302	0.000	92	99621	20.0	20.0	
85 Pentachloronitrobenzene	237	8.311	8.311	0.000	86	42206	10.0	11.4	
86 n-Octadecane	57	8.394	8.394	0.000	91	265815	10.0	9.85	
* 87 Phenanthrene-d10	188	8.468	8.468	0.000	99	306289	8.00	8.00	
88 Phenanthrene	178	8.490	8.490	0.000	98	440885	10.0	10.0	
89 Anthracene	178	8.538	8.538	0.000	98	456571	10.0	10.2	
90 Carbazole	167	8.698	8.698	0.000	96	408343	10.0	10.3	
91 Di-n-butyl phthalate	149	9.043	9.043	0.000	100	515757	10.0	11.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.617	9.617	0.000	97	442405	10.0	10.5	
93 Benzidine	184	9.751	9.751	0.000	99	241229	10.0	10.0	
94 Pyrene	202	9.828	9.828	0.000	96	450058	10.0	9.66	
95 Bisphenol-A	213	9.898	9.898	0.000	97	197870	10.0	11.5	
$ 96 Terphenyl-d14	244	9.988	9.988	0.000	99	298633	10.0	9.14	
97 Butyl benzyl phthalate	149	10.483	10.483	0.000	97	211535	10.0	10.8	
98 2,3,7,8-TCDD	320	10.566	10.566	0.000	1	400	0.1000	0.0760	
99 Carbamazepine	193	10.582	10.582	0.000	93	176676	10.0	10.3	
100 3,3'-Dichlorobenzidine	252	11.035	11.035	0.000	99	140258	10.0	9.90	
101 Benzo[a]anthracene	228	11.048	11.048	0.000	100	371933	10.0	9.62	
* 102 Chrysene-d12	240	11.061	11.061	0.000	98	261212	8.00	8.00	
104 Chrysene	228	11.090	11.090	0.000	98	353735	10.0	9.43	
103 Bis(2-ethylhexyl) phthalat	149	11.125	11.125	0.000	88	278793	10.0	11.3	
105 Di-n-octyl phthalate	149	11.917	11.917	0.000	97	464353	10.0	12.9	
106 Benzo[b]fluoranthene	252	12.358	12.358	0.000	97	350505	10.0	11.0	
107 Benzo[k]fluoranthene	252	12.396	12.396	0.000	99	358708	10.0	10.8	
108 Benzo[a]pyrene	252	12.789	12.789	0.000	98	342796	10.0	11.1	
* 109 Perylene-d12	264	12.866	12.866	0.000	96	225906	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.345	14.345	0.000	97	289614	10.0	10.3	M
111 Dibenz(a,h)anthracene	278	14.386	14.386	0.000	94	300250	10.0	10.4	
112 Benzo[g,h,i]perylene	276	14.741	14.741	0.000	94	308259	10.0	9.71	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL6_00051 Amount Added: 1.00 Units: mL

Report Date: 20-Mar-2018 11:35:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00821.D

Injection Date: 19-Mar-2018 20:34:30 Instrument ID: CBNAMS18 Operator ID:

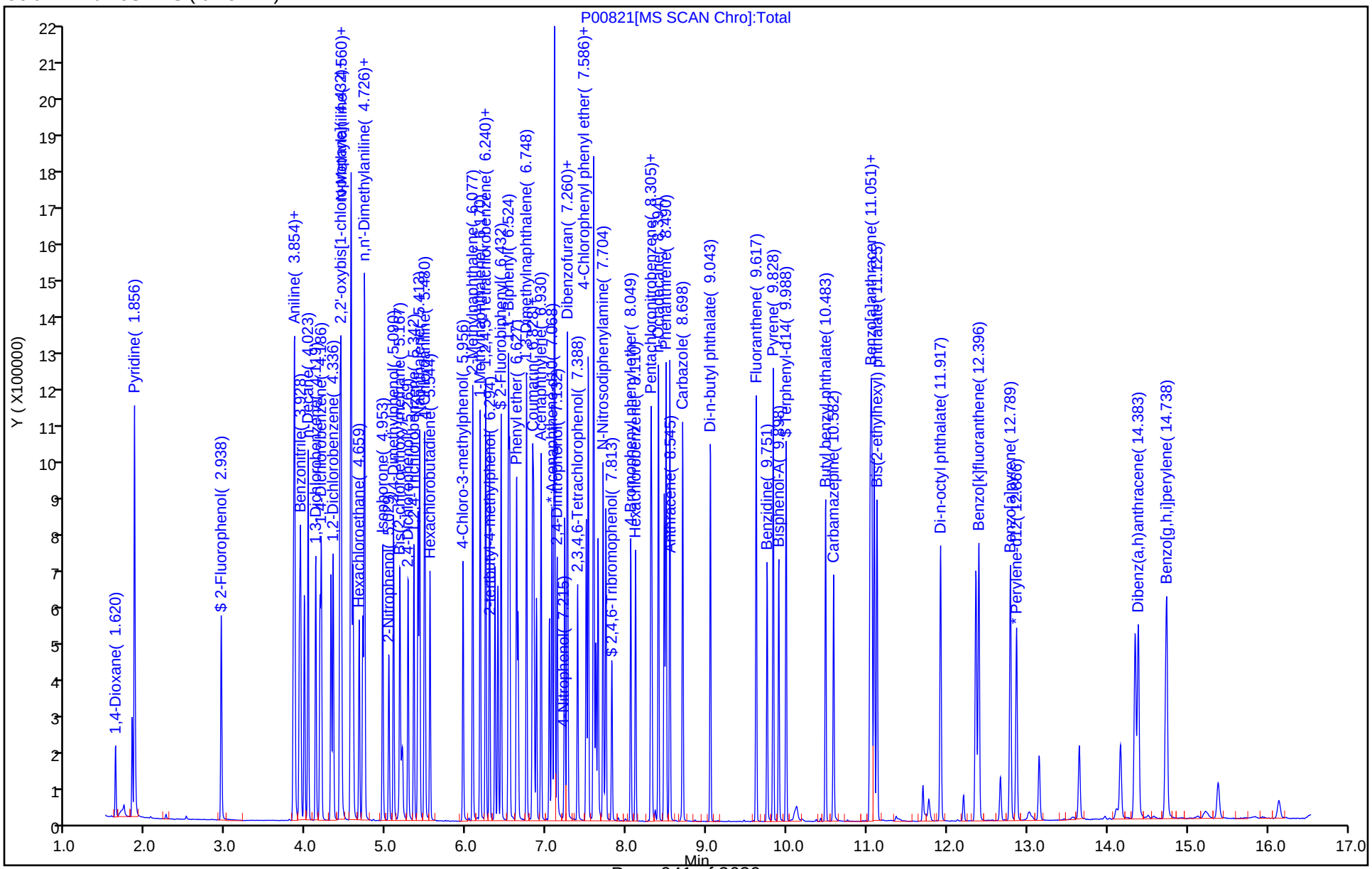
Lims ID: ccvis Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

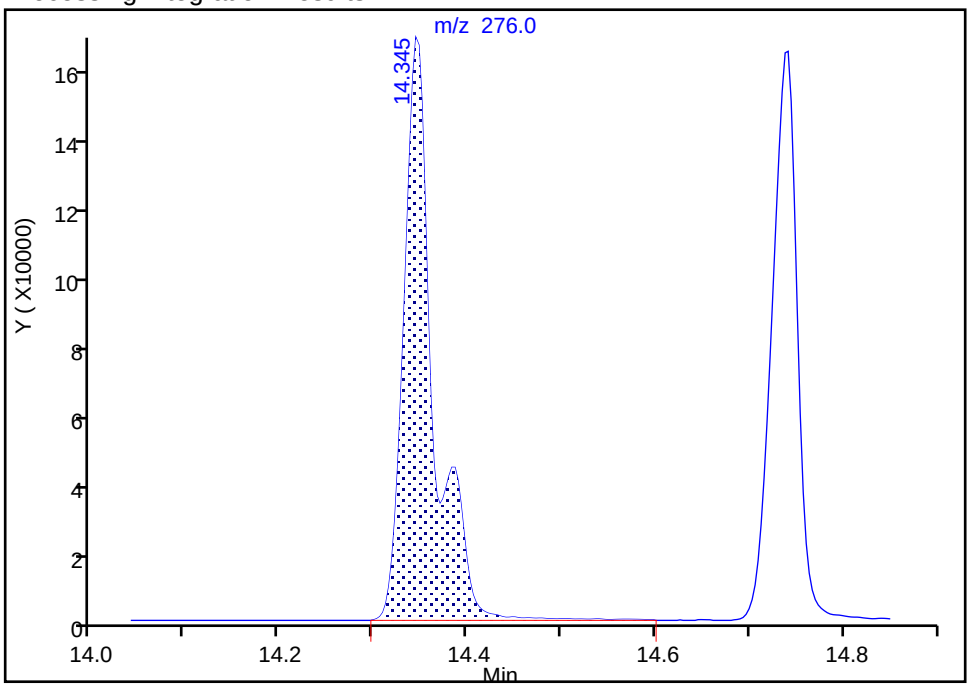
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00821.D				
Injection Date:	19-Mar-2018 20:34:30	Instrument ID:	CBNAMS18		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

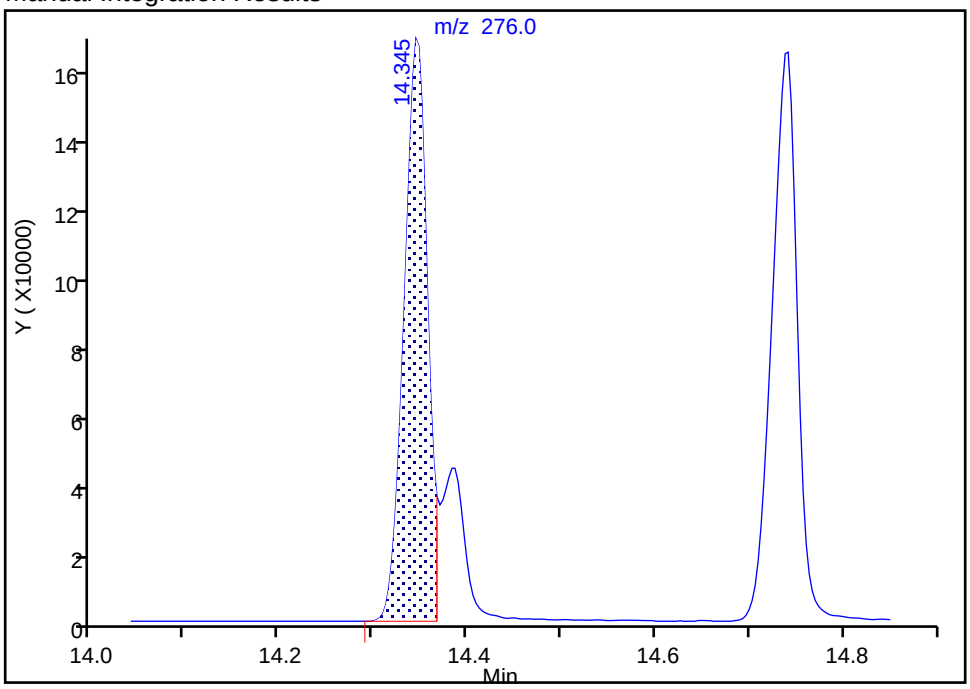
Processing Integration Results

RT: 14.34
Area: 369253
Amount: 13.134441
Amount Units: ug/ml



Manual Integration Results

RT: 14.34
Area: 289614
Amount: 10.301658
Amount Units: ug/ml



Reviewer: johnstonm1, 20-Mar-2018 07:47:52

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-504609/3 Calibration Date: 03/19/2018 21:01

Instrument ID: CBNAMS18 Calib Start Date: 02/27/2018 18:47

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 02/27/2018 21:11

Lab File ID: P00822.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.362	1.406	0.0100	10300	10000	3.2	20.0
Caprolactam	Ave	0.0732	0.0928	0.0100	12700	10000	26.8*	20.0
Atrazine	Ave	0.1802	0.2207	0.0100	12200	10000	22.4*	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00822.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 19-Mar-2018 21:01:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-003
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: hamziy Date: 19-Mar-2018 21:26:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.749	3.784	-0.038	95	176219	10.0	10.3	
* 14 1,4-Dichlorobenzene-d4	152	4.173	4.170	0.003	98	100299	8.00	8.00	
* 38 Naphthalene-d8	136	5.392	5.394	-0.002	99	419297	8.00	8.00	
42 Caprolactam	113	5.778	5.778	-0.004	87	48610	10.0	12.7	a
* 64 Acenaphthene-d10	164	7.064	7.065	-0.001	100	187309	8.00	8.00	
83 Atrazine	200	8.219	8.215	0.000	84	98733	10.0	12.2	a
* 87 Phenanthrene-d10	188	8.468	8.468	0.000	99	357931	8.00	8.00	
* 102 Chrysene-d12	240	11.059	11.061	-0.002	98	332358	8.00	8.00	
* 109 Perylene-d12	264	12.868	12.866	0.002	96	352954	8.00	8.00	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

SM_BNAL5B_00036 Amount Added: 1.00 Units: mL

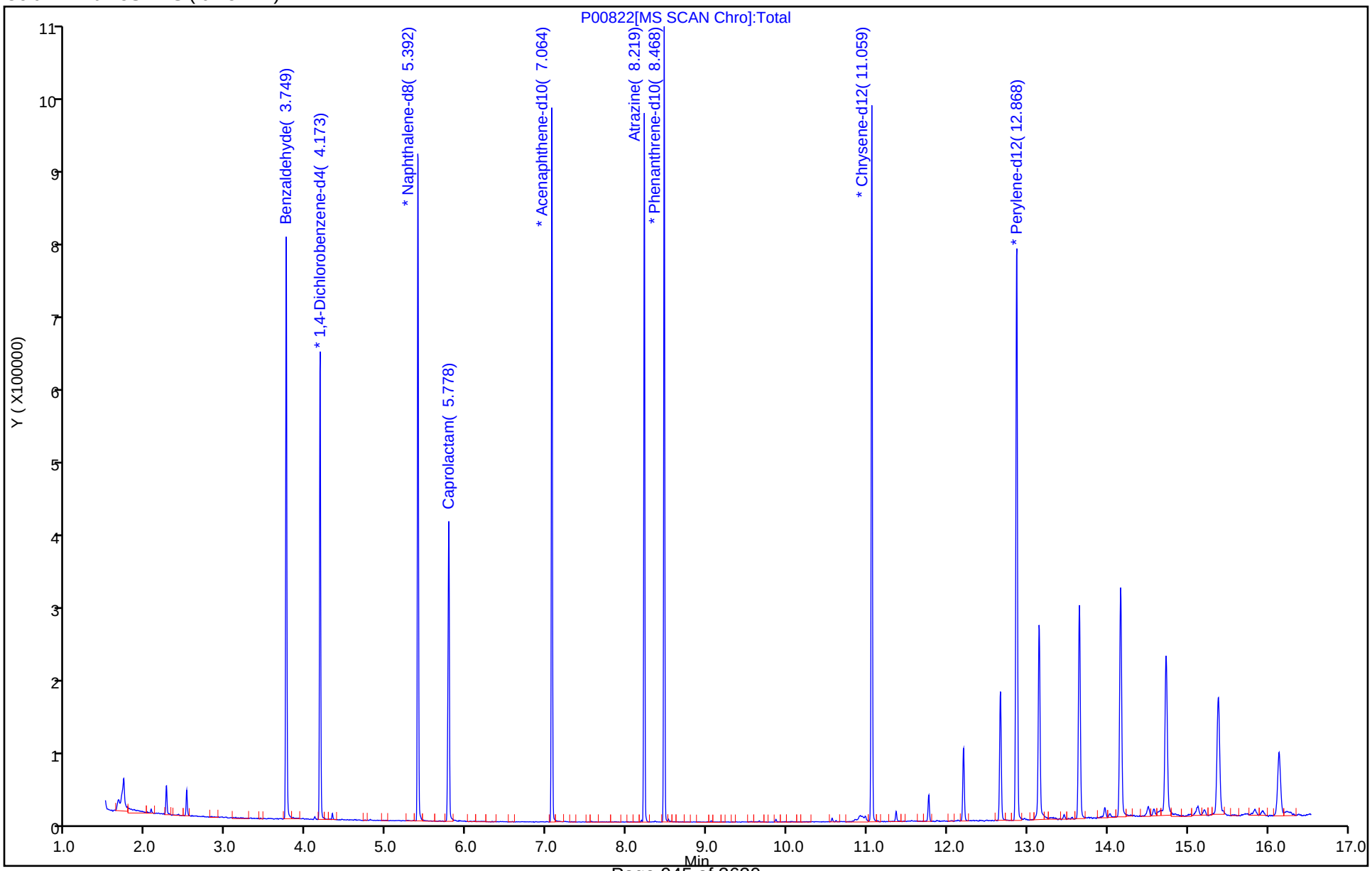
Report Date: 20-Mar-2018 11:35:22 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00822.D

Injection Date:	19-Mar-2018 21:01:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

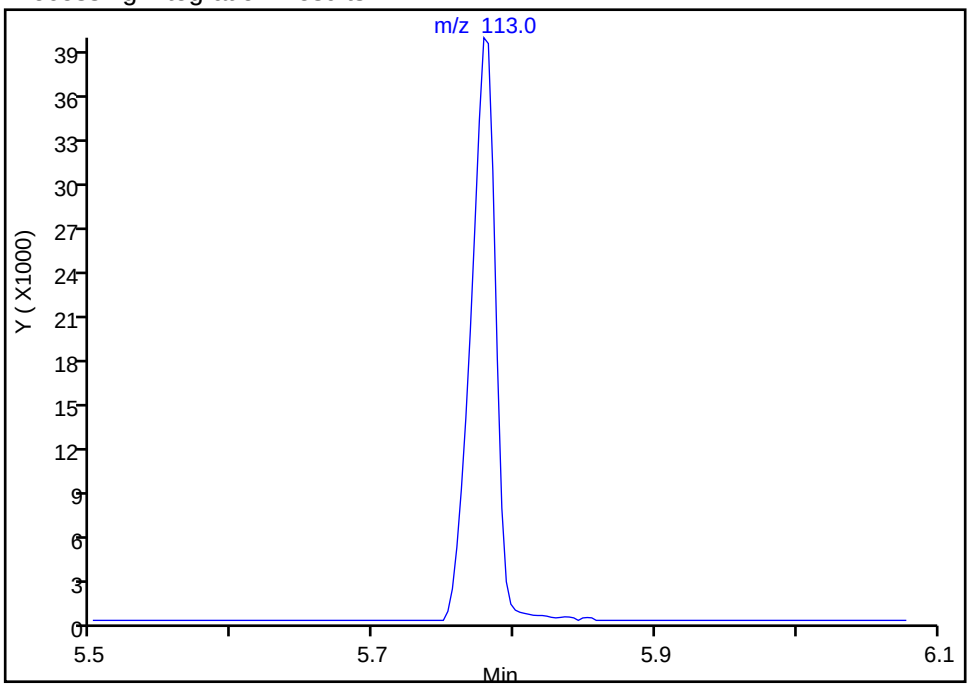
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00822.D				
Injection Date:	19-Mar-2018 21:01:30	Instrument ID:	CBNAMS18		
Lims ID:	ccv				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

42 Caprolactam, CAS: 105-60-2

Signal: 1

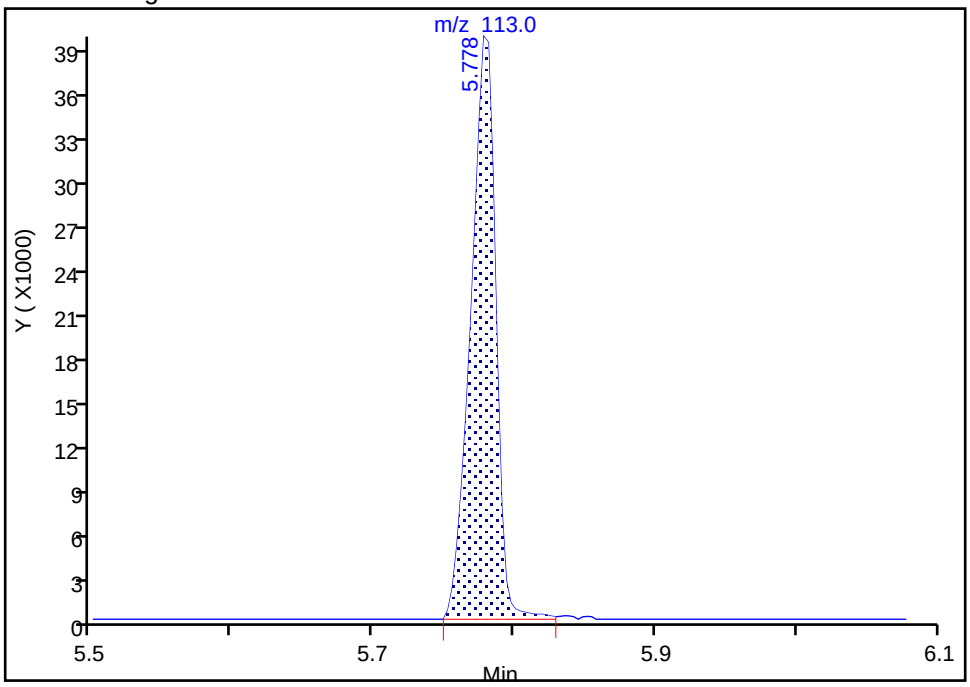
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 48610
Amount: 12.677987
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 21:21:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

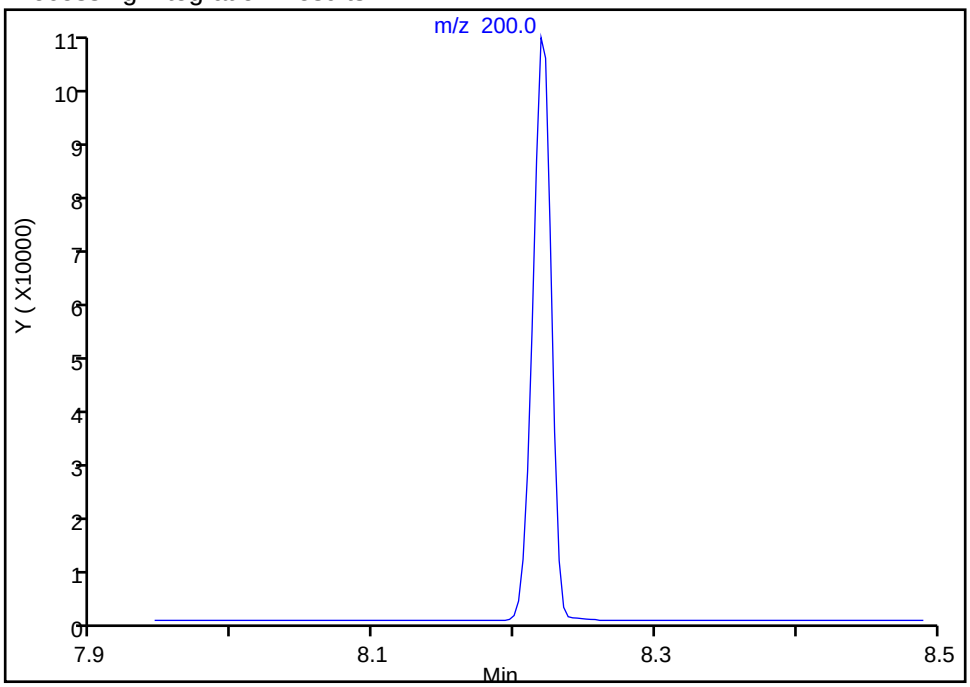
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00822.D				
Injection Date:	19-Mar-2018 21:01:30	Instrument ID:	CBNAMS18		
Lims ID:	ccv				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

83 Atrazine, CAS: 1912-24-9

Signal: 1

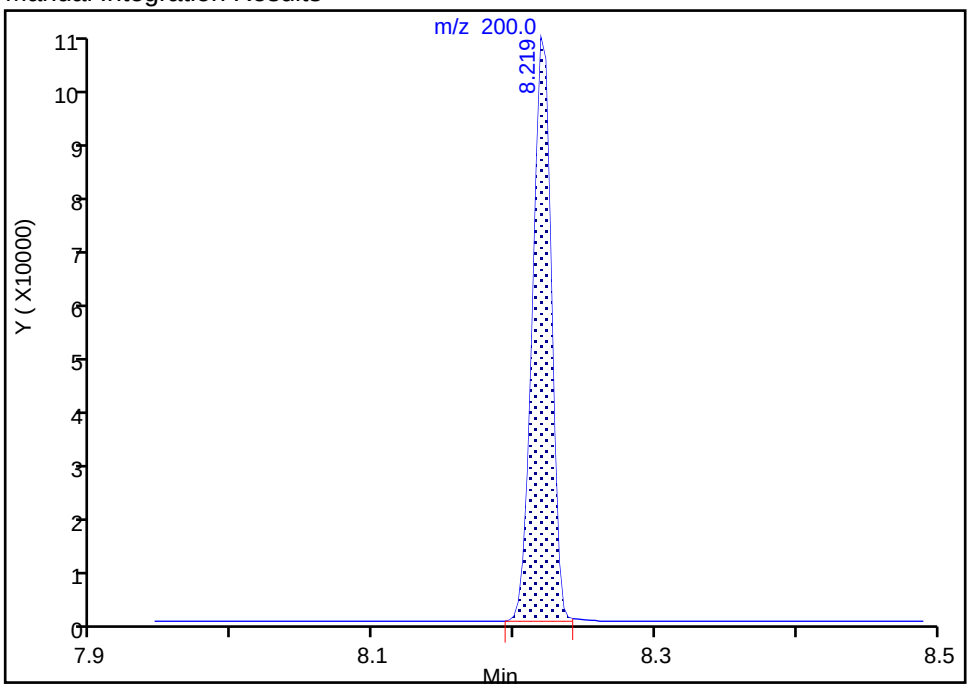
Not Detected
Expected RT: 8.22

Processing Integration Results



Manual Integration Results

RT: 8.22
Area: 98733
Amount: 12.243673
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 21:21:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 15-Mar-2018 14:47:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068833-001
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 16-Mar-2018 11:00:15 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: johnstonm1 Date: 15-Mar-2018 15:18:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
23 Pentachlorophenol_T	266	5.387	5.387	0.000	92	9351	NR	NR	
47 Benzidine_T	184	7.110	7.110	0.000	99	66834	NR	NR	
121 DFTPP									
123 4,4'-DDD	235	7.745	7.745	0.000	1	222		NR	a
124 4,4'-DDT	235	8.045	8.045	0.000	97	26406	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

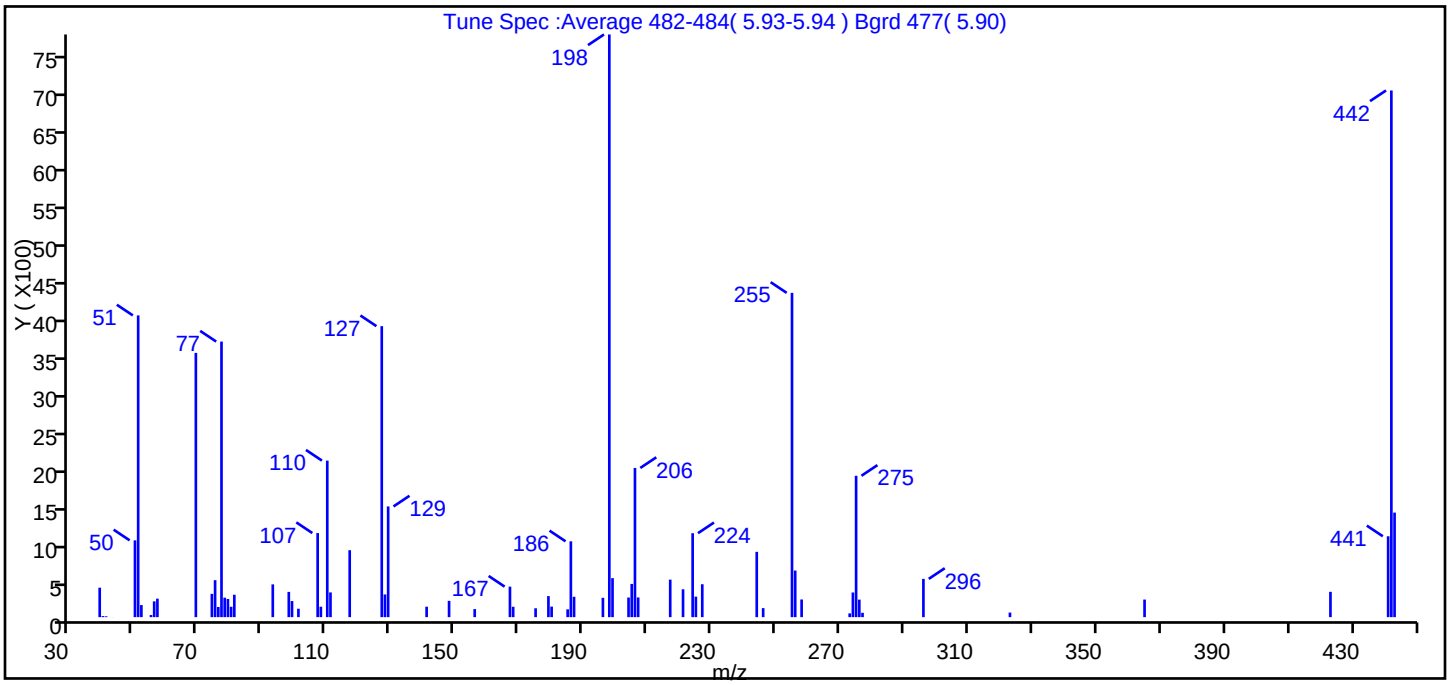
SMDFTP_CH_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d
Injection Date: 15-Mar-2018 14:47:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

121 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	51.8
68	<2% of mass 69	0.0 (0.0)
69	Present	45.4
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.9
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-30% of mass 198	24.3
365	>1% of mass 198	3.0
441	Present but less than mass 443	13.9 (77.4)
442	>40% of mass 198	90.4
443	17-23% of mass 442	17.9 (19.8)

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d\8270_12R_9.rslt\spectra.d
Injection Date: 15-Mar-2018 14:47:30
Spectrum: Tune Spec :Average 482-484(5.93-5.94) Bgrd 477(5.90)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 71

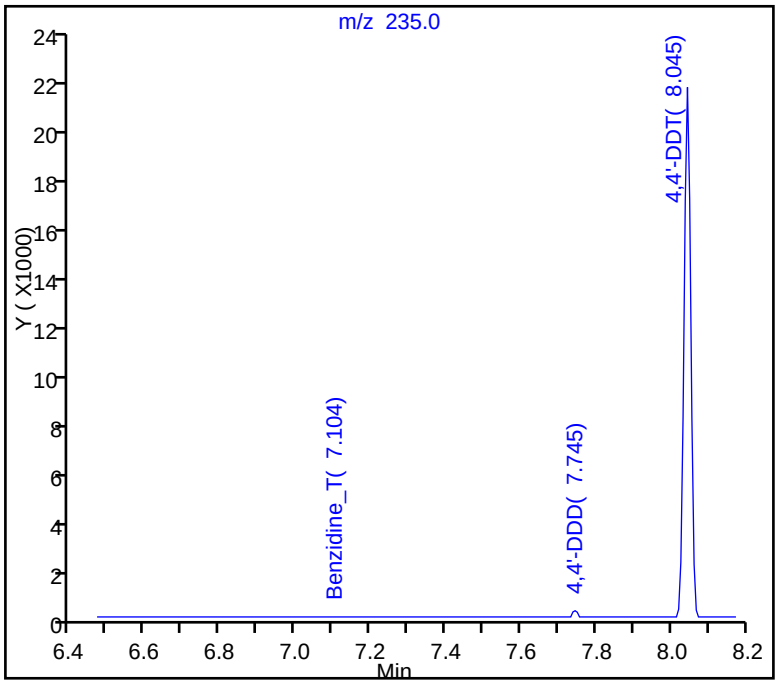
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	392	81.00	298	175.00	118	244.00	869
40.00	14	93.00	436	179.00	280	246.00	120
41.00	11	98.00	336	180.00	140	255.00	4315
43.00	1	99.00	214	185.00	104	256.00	620
50.00	1022	101.00	112	186.00	1009	258.00	235
51.00	4015	107.00	1119	187.00	271	273.00	50
52.00	161	108.00	139	196.00	257	274.00	328
55.00	28	110.00	2083	198.00	7753	275.00	1881
56.00	210	111.00	329	199.00	519	276.00	233
57.00	246	117.00	891	204.00	261	277.00	58
69.00	3516	127.00	3872	205.00	442	296.00	509
74.00	310	128.00	302	206.00	1985	323.00	61
75.00	492	129.00	1473	207.00	262	365.00	234
76.00	135	141.00	139	217.00	499	423.00	337
77.00	3667	148.00	217	221.00	371	441.00	1076
78.00	259	156.00	107	224.00	1117	442.00	7008
79.00	242	167.00	406	225.00	273	443.00	1391
80.00	138	168.00	138	227.00	438		

Breakdown Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d		
Injection Date:	15-Mar-2018 14:47:30	Instrument ID:	CBNAMS12
Lims ID:	dftpp		
Client ID:			
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL

124 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

124 4,4'-DDT, Area = 26406
123 4,4'-DDD, Area = 222
122 4,4'-DDE, Area = 0

%Breakdown: 0.83%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

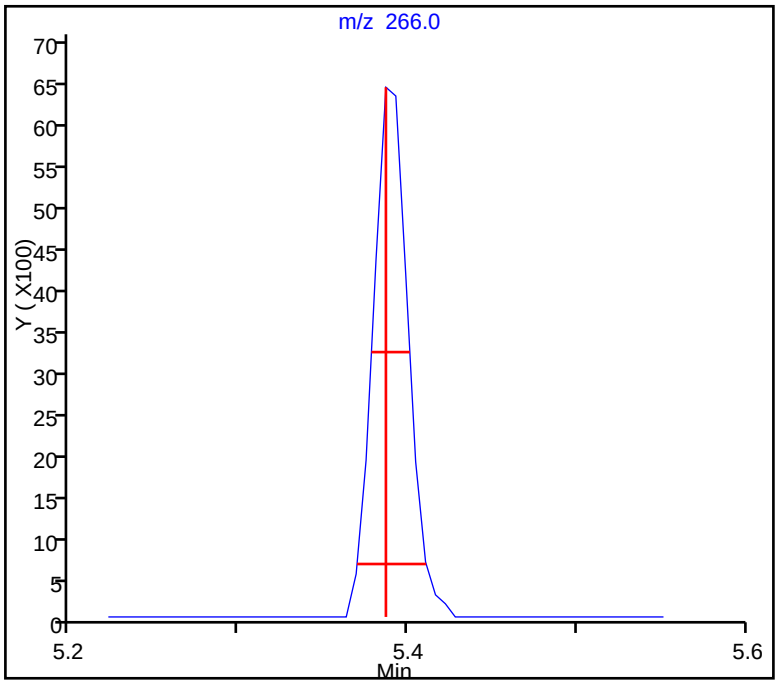
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d
Injection Date: 15-Mar-2018 14:47:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

23 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

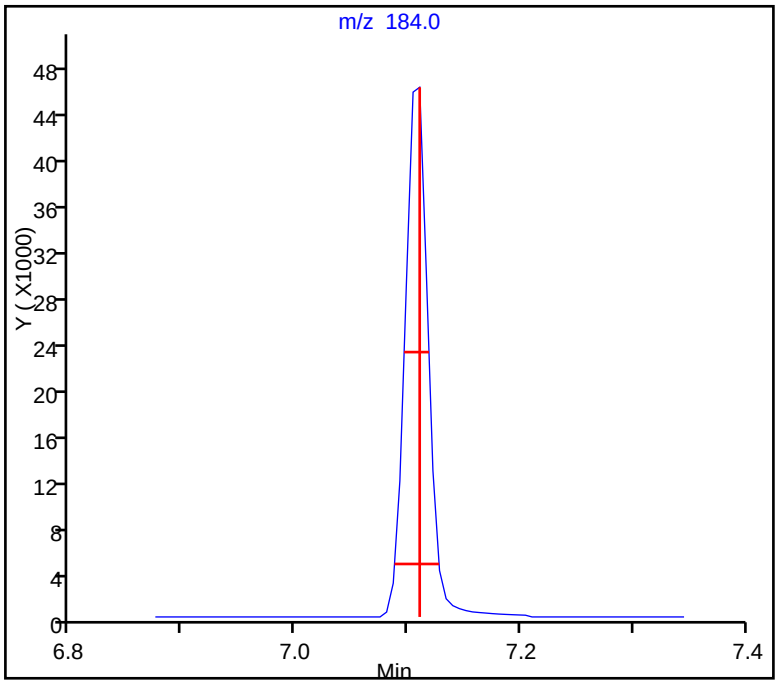
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077525.d
Injection Date: 15-Mar-2018 14:47:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

47 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 22-Mar-2018 08:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-001
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:41:23 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:41:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
23 Pentachlorophenol_T	266	5.345	5.345	0.000	92	9802	NR	NR	
47 Benzidine_T	184	7.057	7.057	0.000	99	63556	NR	NR	
121 DFTPP									
122 4,4'-DDE	246	7.262	7.262	0.000	1	0		NR	a
123 4,4'-DDD	235	7.692	7.692	0.000	1	257		NR	a
124 4,4'-DDT	235	7.992	7.992	0.000	97	27093	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

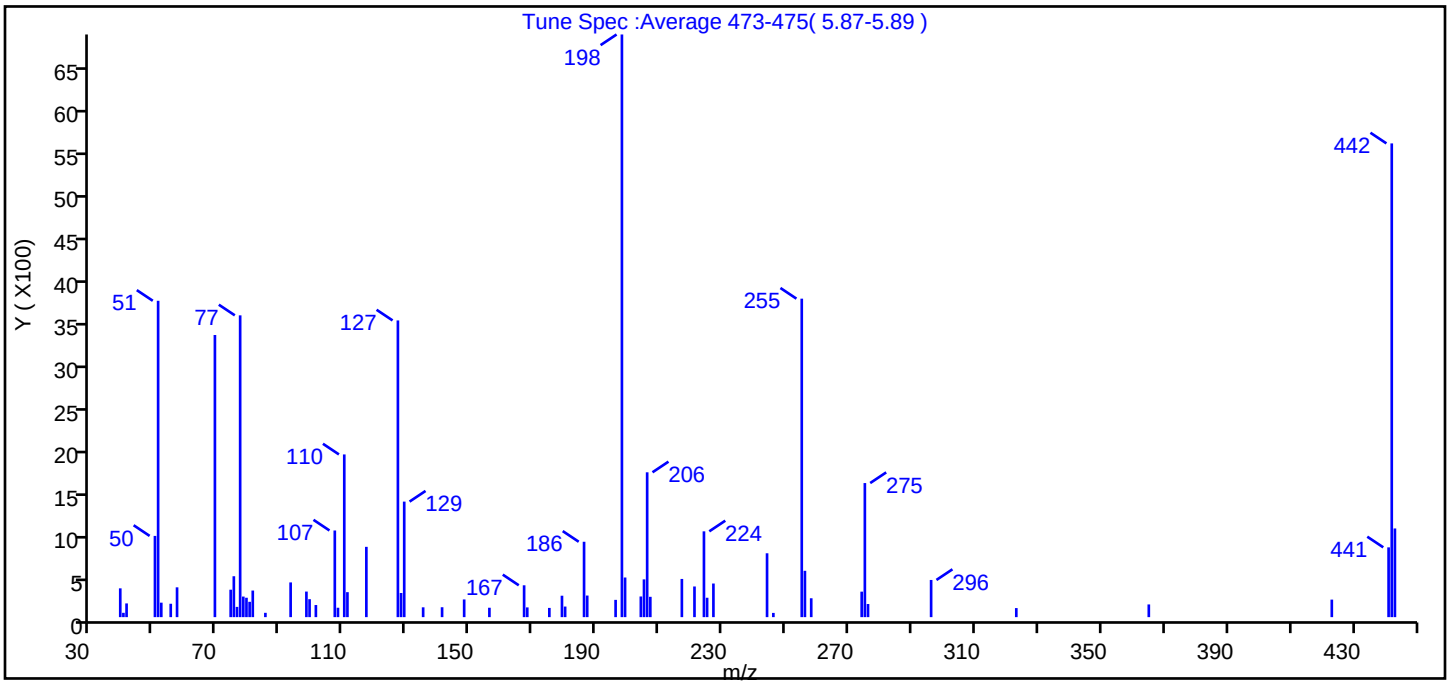
SMDFTP_CH_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d
Injection Date: 22-Mar-2018 08:21:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

121 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	54.3
68	<2% of mass 69	0.0 (0.0)
69	Present	48.4
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	50.9
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-30% of mass 198	23.0
365	>1% of mass 198	2.2
441	Present but less than mass 443	12.0 (78.7)
442	>40% of mass 198	81.3
443	17-23% of mass 442	15.2 (18.7)

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d\8270_12R_9.rslt\spectra.d
Injection Date: 22-Mar-2018 08:21:30
Spectrum: Tune Spec :Average 473-475(5.87-5.89)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 68

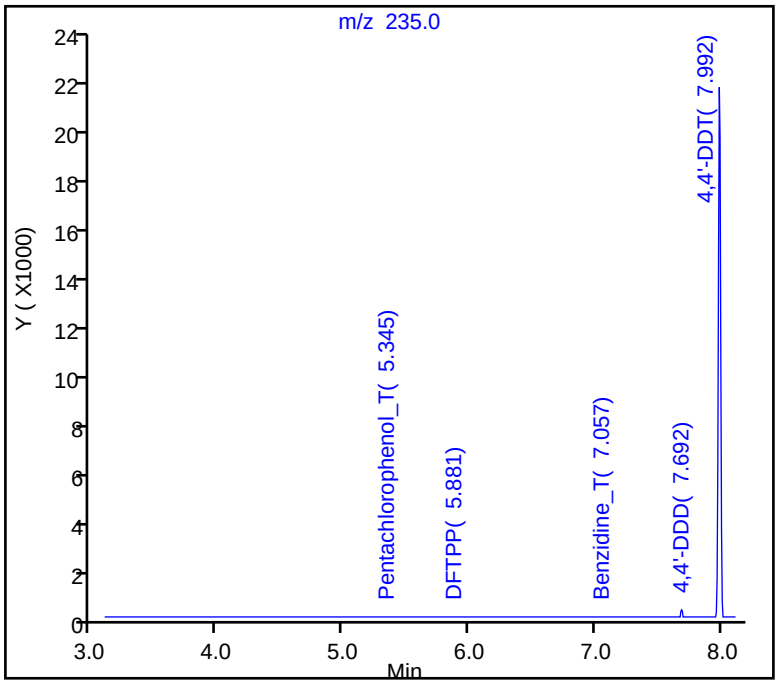
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	340	85.00	51	167.00	376	225.00	229
40.00	51	93.00	410	168.00	115	227.00	397
41.00	162	98.00	302	175.00	109	244.00	754
50.00	959	99.00	212	179.00	253	246.00	50
51.00	3735	101.00	143	180.00	125	255.00	3760
52.00	171	107.00	1023	186.00	890	256.00	547
55.00	158	108.00	111	187.00	255	258.00	223
57.00	352	110.00	1921	196.00	204	274.00	301
69.00	3331	111.00	295	198.00	6879	275.00	1583
74.00	324	117.00	830	199.00	468	276.00	155
75.00	483	127.00	3503	204.00	244	296.00	439
76.00	121	128.00	285	205.00	446	323.00	107
77.00	3563	129.00	1364	206.00	1710	365.00	150
78.00	243	135.00	116	207.00	240	423.00	207
79.00	229	141.00	117	217.00	451	441.00	824
80.00	181	148.00	209	221.00	362	442.00	5593
81.00	314	156.00	111	224.00	1013	443.00	1047

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d
Injection Date: 22-Mar-2018 08:21:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

124 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

124 4,4'-DDT, Area = 27093
123 4,4'-DDD, Area = 257
122 4,4'-DDE, Area = 0

%Breakdown: 0.94%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

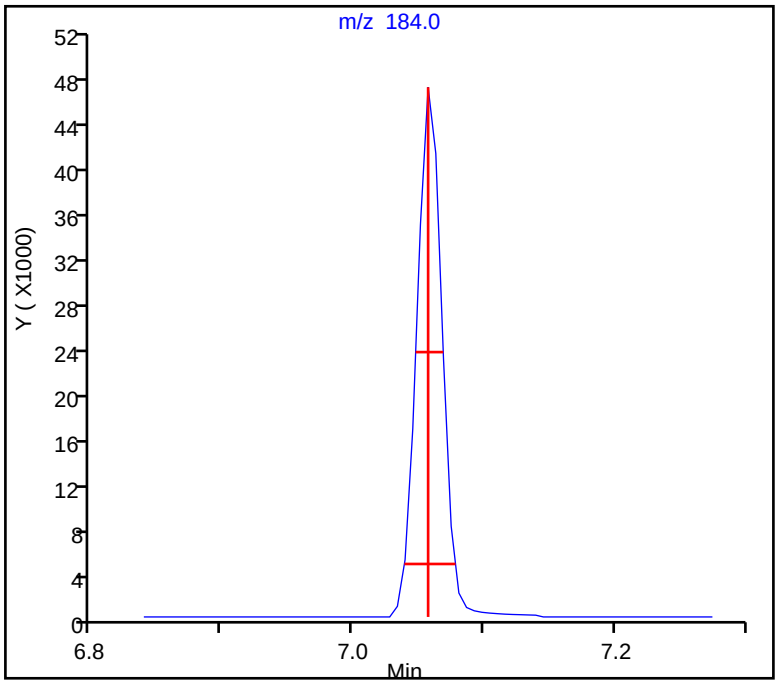
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d
Injection Date: 22-Mar-2018 08:21:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

47 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

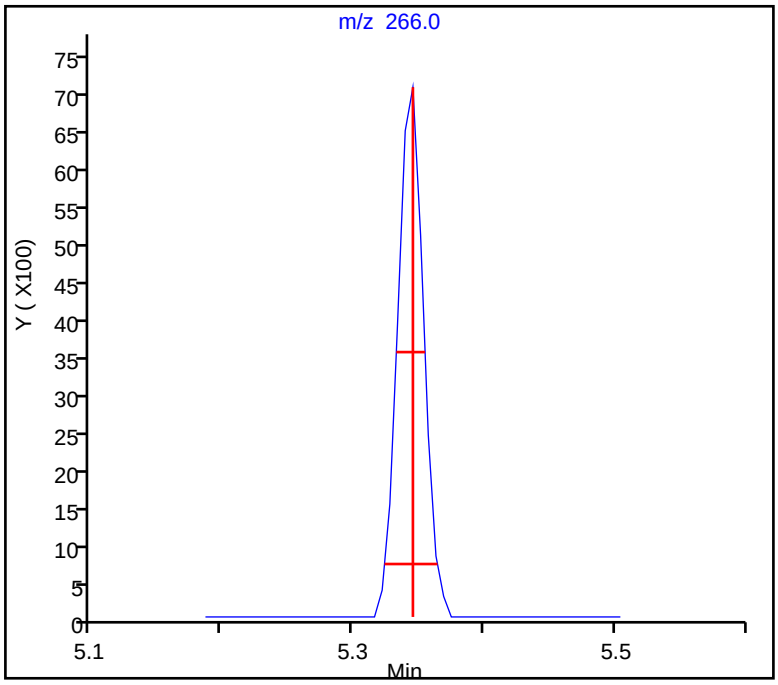
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077643.d
Injection Date: 22-Mar-2018 08:21:30 Instrument ID: CBNAMS12
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_12R_9 Limit Group: SV 8270D ICAL

23 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Feb-2018 15:20:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068083-001
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Feb-2018 09:05:52 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: asfawa Date: 28-Feb-2018 09:05:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	5.045	5.045	0.000	91	63265	NR	NR	
56 Benzidine_T	184	6.762	6.762	0.000	99	548281	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.986	6.986	0.000	79	181		NR	
126 4,4'-DDD	235	7.397	7.397	0.000	93	2467		NR	
127 4,4'-DDT	235	7.701	7.701	0.000	97	220120	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

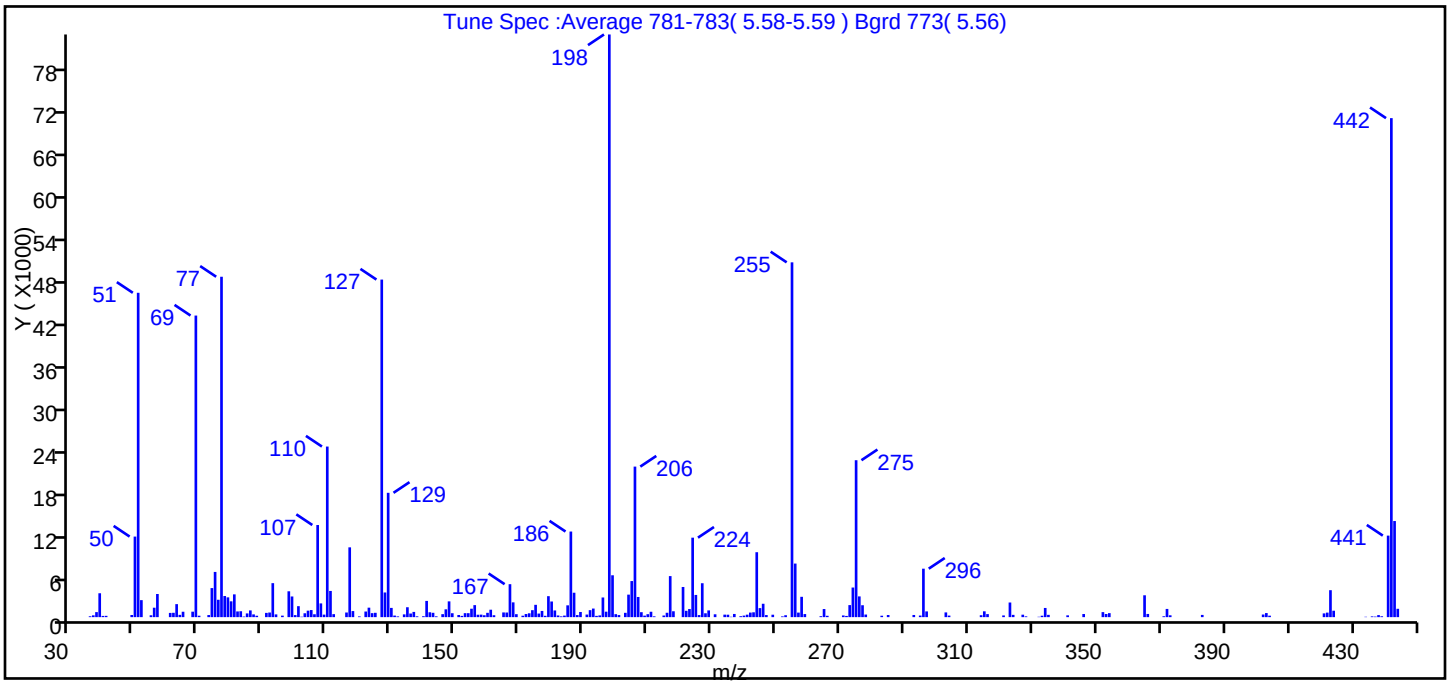
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D
Injection Date: 27-Feb-2018 15:20:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	55.7
68	<2% of mass 69	0.9 (1.8)
69	Present	51.8
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	57.9
197	<1% of mass 198	0.9
199	5-9% of mass 198	7.2
275	10-30% of mass 198	26.9
365	>1% of mass 198	3.8
441	Present but less than mass 443	14.0 (84.8)
442	>40% of mass 198	85.6
443	17-23% of mass 442	16.5 (19.3)

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D\8270LVI_18.rslt\spectra.d
Injection Date: 27-Feb-2018 15:20:30
Spectrum: Tune Spec :Average 781-783(5.58-5.59) Bgrd 773(5.56)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	122	118.00	859	187.00	3458	264.00	133
37.00	255	120.00	105	188.00	295	265.00	1149
38.00	712	122.00	795	189.00	729	266.00	192
39.00	3383	123.00	1342	191.00	365	271.00	239
40.00	175	124.00	567	192.00	989	272.00	173
41.00	185	125.00	614	193.00	1215	273.00	1704
49.00	302	127.00	47808	194.00	183	274.00	4193
50.00	11410	128.00	3493	195.00	244	275.00	22224
51.00	45936	129.00	17608	196.00	2784	276.00	2937
52.00	2408	130.00	1309	197.00	774	277.00	1686
55.00	264	131.00	222	198.00	82520	278.00	368
56.00	1336	132.00	104	199.00	5929	283.00	201
57.00	3278	134.00	392	200.00	422	285.00	301
61.00	599	135.00	1402	201.00	294	293.00	306
62.00	615	136.00	512	203.00	612	295.00	225
63.00	1843	137.00	741	204.00	3188	296.00	6863
64.00	324	138.00	114	205.00	5111	297.00	813
65.00	766	140.00	128	206.00	21320	303.00	671
68.00	775	141.00	2298	207.00	2855	304.00	221
69.00	42712	142.00	690	208.00	701	314.00	272
70.00	204	143.00	614	209.00	213	315.00	825
73.00	295	144.00	112	210.00	416	316.00	429
74.00	4115	146.00	423	211.00	764	321.00	242
75.00	6403	147.00	1109	212.00	112	323.00	2073
76.00	2461	148.00	2234	215.00	230	324.00	324
77.00	48208	149.00	555	216.00	620	327.00	348
78.00	2991	151.00	304	217.00	5813	328.00	110
79.00	2803	152.00	180	218.00	834	332.00	51
80.00	2240	153.00	564	221.00	4271	333.00	202
81.00	3227	154.00	562	222.00	897	334.00	1301
82.00	808	155.00	1193	223.00	1150	335.00	325
83.00	837	156.00	1701	224.00	11255	341.00	255
84.00	82	157.00	341	225.00	3145	346.00	442

Report Date: 28-Feb-2018 09:05:58 Chrom Revision: 2.2 08-Feb-2018 13:38:42
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D\8270LVI_18.rslt\spectra.d
Injection Date: 27-Feb-2018 15:20:30
Spectrum: Tune Spec :Average 781-783(5.58-5.59) Bgrd 773(5.56)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 235

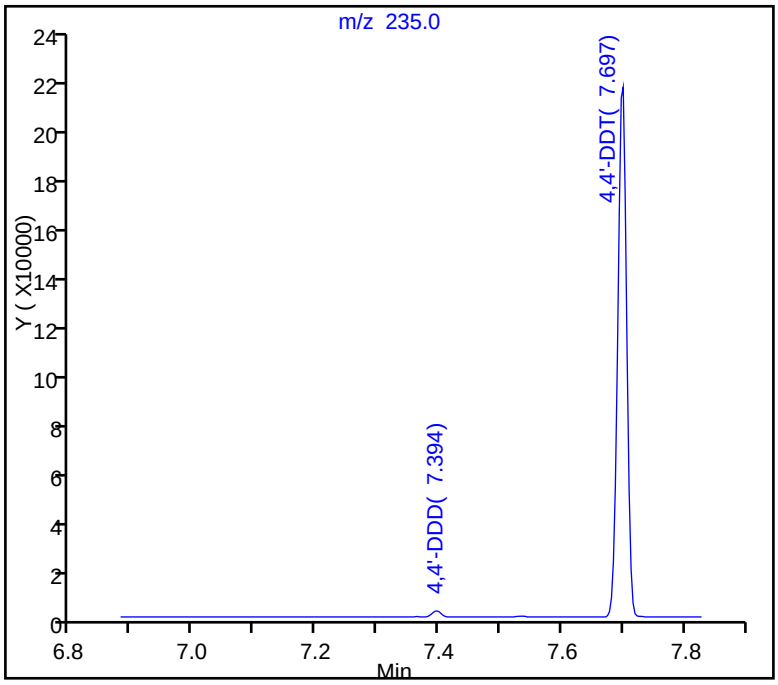
m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	528	158.00	355	226.00	293	352.00	712
86.00	953	159.00	268	227.00	4803	353.00	445
87.00	390	160.00	612	228.00	548	354.00	567
88.00	199	161.00	1052	229.00	953	365.00	3096
91.00	603	162.00	271	231.00	405	366.00	452
92.00	654	165.00	666	234.00	355	371.00	124
93.00	4813	166.00	655	235.00	345	372.00	1163
94.00	389	167.00	4668	236.00	51	373.00	261
96.00	213	168.00	2093	237.00	450	383.00	316
98.00	3662	169.00	420	239.00	133	402.00	372
99.00	2927	171.00	202	240.00	218	403.00	579
100.00	289	172.00	442	241.00	349	404.00	209
101.00	1555	173.00	546	242.00	645	421.00	531
102.00	59	174.00	986	243.00	687	422.00	642
103.00	548	175.00	1744	244.00	9196	423.00	3817
104.00	918	176.00	506	245.00	1279	424.00	908
105.00	1004	177.00	878	246.00	1896	434.00	51
106.00	409	178.00	191	247.00	296	436.00	106
107.00	13047	179.00	2970	249.00	344	437.00	77
108.00	1946	180.00	2216	252.00	105	438.00	289
109.00	357	181.00	947	253.00	270	439.00	123
110.00	24160	182.00	237	255.00	50248	441.00	11547
111.00	3710	183.00	107	256.00	7587	442.00	70672
112.00	425	184.00	218	257.00	643	443.00	13611
116.00	657	185.00	1672	258.00	2879	444.00	1182
117.00	9886	186.00	12124	259.00	436		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D
Injection Date: 27-Feb-2018 15:20:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 220120
126 4,4'-DDD, Area = 2467
125 4,4'-DDE, Area = 181

%Breakdown: 1.19%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

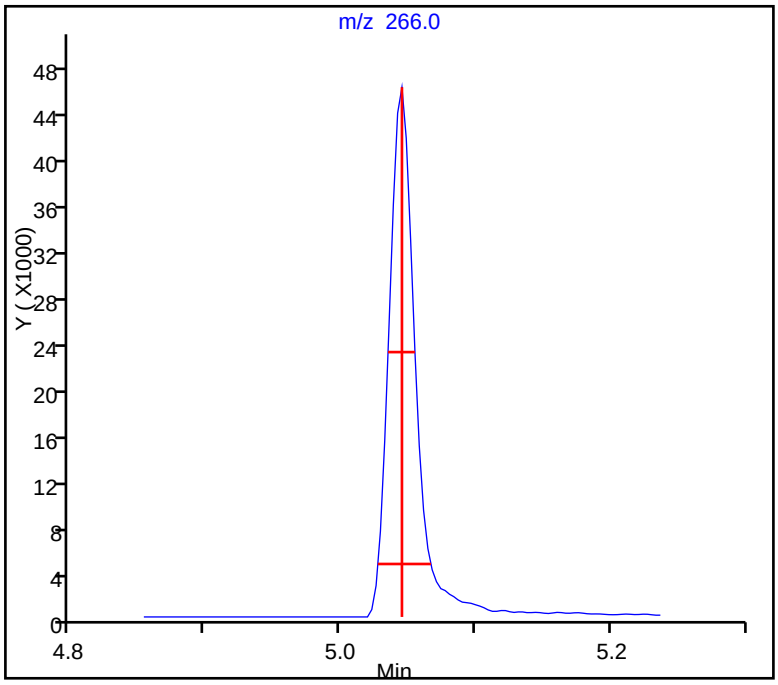
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D
Injection Date: 27-Feb-2018 15:20:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

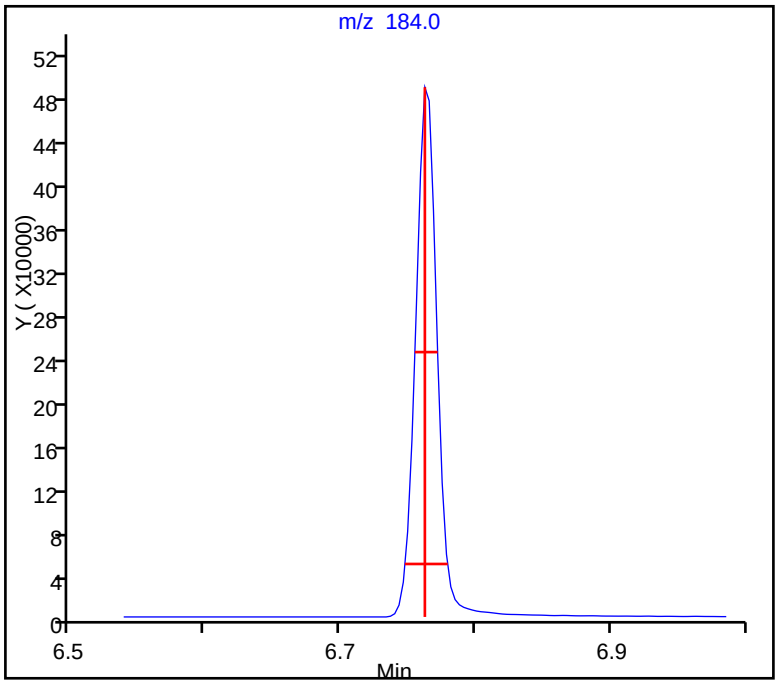
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00456A.D
Injection Date: 27-Feb-2018 15:20:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 19-Mar-2018 20:14:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-001
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:34:46 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: eisam Date: 19-Mar-2018 20:29:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	4.892	4.892	0.000	92	52912	NR	NR	
56 Benzidine_T	184	6.622	6.622	0.000	99	439386	NR	NR	
124 DFTPP									
126 4,4'-DDD	235	7.260	7.260	0.000	93	2455		NR	
125 4,4'-DDE	246	7.563	7.563	0.000	54	13401		NR	
127 4,4'-DDT	235	7.563	7.563	0.000	98	194411	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

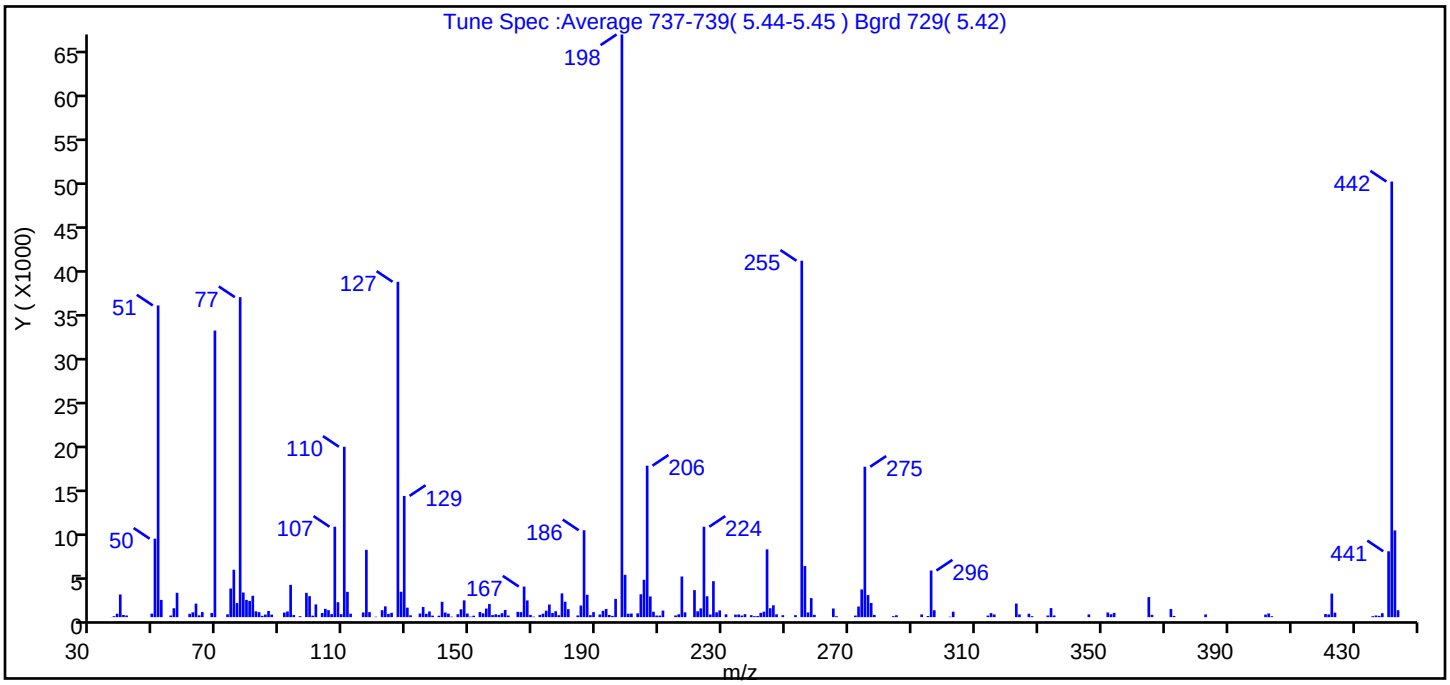
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D
Injection Date: 19-Mar-2018 20:14:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	53.5
68	<2% of mass 69	0.7 (1.5)
69	Present	49.2
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	57.5
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.3
275	10-30% of mass 198	25.8
365	>1% of mass 198	3.4
441	Present but less than mass 443	11.3 (76.0)
442	>40% of mass 198	74.8
443	17-23% of mass 442	14.9 (19.9)

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D\8270LVI_18.rslt\spectra.d
Injection Date: 19-Mar-2018 20:14:30
Spectrum: Tune Spec :Average 737-739(5.44-5.45) Bgrd 729(5.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	14	117.00	7632	185.00	1321	257.00	534
37.00	106	118.00	567	186.00	9852	258.00	2161
38.00	384	120.00	50	187.00	2538	259.00	257
39.00	2572	122.00	788	188.00	225	265.00	980
40.00	243	123.00	1222	189.00	571	266.00	105
41.00	186	124.00	364	191.00	299	272.00	179
49.00	400	125.00	493	192.00	716	273.00	1206
50.00	8896	127.00	38024	193.00	931	274.00	3145
51.00	35344	128.00	2880	194.00	245	275.00	17056
52.00	1952	129.00	13745	195.00	143	276.00	2507
55.00	185	130.00	1077	196.00	2073	277.00	1603
56.00	1008	131.00	211	198.00	66072	278.00	248
57.00	2760	134.00	411	199.00	4799	284.00	111
61.00	378	135.00	1148	200.00	387	285.00	215
62.00	547	136.00	380	201.00	409	293.00	310
63.00	1534	137.00	646	203.00	432	295.00	128
64.00	204	138.00	172	204.00	2593	296.00	5288
65.00	575	140.00	162	205.00	4240	297.00	783
68.00	472	141.00	1743	206.00	17176	302.00	50
69.00	32496	142.00	521	207.00	2349	303.00	618
73.00	319	143.00	397	208.00	617	314.00	176
74.00	3246	144.00	54	209.00	183	315.00	456
75.00	5377	146.00	329	210.00	179	316.00	304
76.00	1598	147.00	889	211.00	744	323.00	1543
77.00	36288	148.00	1903	215.00	192	324.00	307
78.00	2793	149.00	410	216.00	321	327.00	389
79.00	1957	150.00	60	217.00	4608	328.00	108
80.00	1839	151.00	163	218.00	542	333.00	187
81.00	2423	153.00	585	221.00	3065	334.00	1028
82.00	663	154.00	431	222.00	664	335.00	186
83.00	563	155.00	974	223.00	994	346.00	312
84.00	153	156.00	1485	224.00	10252	352.00	526
85.00	295	157.00	237	225.00	2371	353.00	328

Report Date: 20-Mar-2018 11:34:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D\8270LVI_18.rslt\spectra.d
Injection Date: 19-Mar-2018 20:14:30
Spectrum: Tune Spec :Average 737-739(5.44-5.45) Bgrd 729(5.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 219

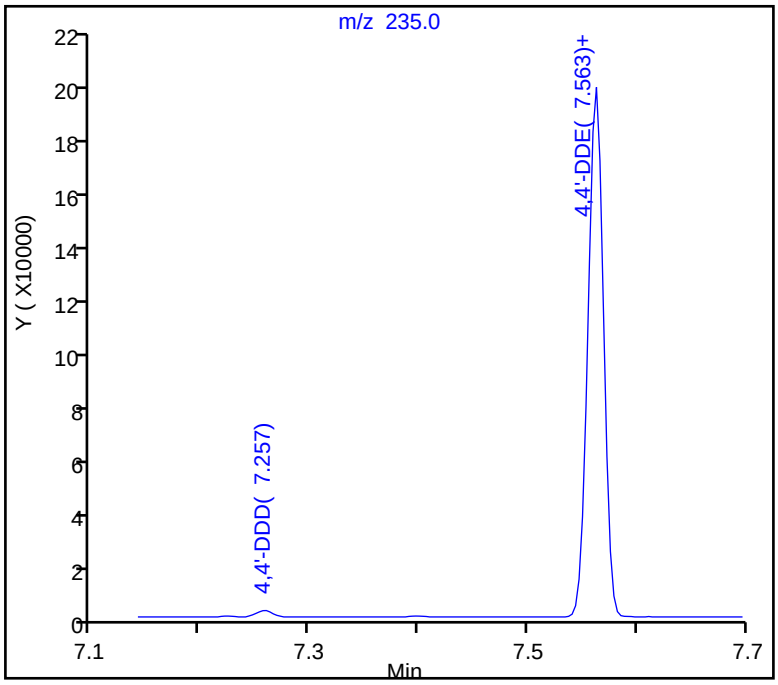
m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	694	158.00	321	226.00	300	354.00	483
87.00	289	159.00	251	227.00	4079	365.00	2278
91.00	518	160.00	443	228.00	549	366.00	263
92.00	642	161.00	817	229.00	763	372.00	921
93.00	3660	162.00	188	231.00	321	373.00	138
94.00	237	165.00	599	234.00	288	383.00	306
96.00	108	166.00	565	235.00	299	402.00	294
98.00	2756	167.00	3469	236.00	185	403.00	419
99.00	2381	168.00	1896	237.00	340	404.00	103
100.00	170	169.00	248	239.00	225	421.00	354
101.00	1444	170.00	57	240.00	111	422.00	309
103.00	469	172.00	256	241.00	126	423.00	2674
104.00	941	173.00	389	242.00	483	424.00	506
105.00	792	174.00	732	243.00	618	436.00	112
106.00	341	175.00	1429	244.00	7689	437.00	192
107.00	10255	176.00	473	245.00	1010	438.00	145
108.00	1691	177.00	667	246.00	1344	439.00	449
109.00	333	178.00	219	247.00	323	441.00	7470
110.00	19320	179.00	2696	249.00	220	442.00	49392
111.00	2872	180.00	1748	253.00	225	443.00	9835
112.00	391	181.00	901	255.00	40416	444.00	787
116.00	529	184.00	189	256.00	5790		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D
Injection Date: 19-Mar-2018 20:14:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 194411
126 4,4'-DDD, Area = 2455
125 4,4'-DDE, Area = 13401

%Breakdown: 7.54%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

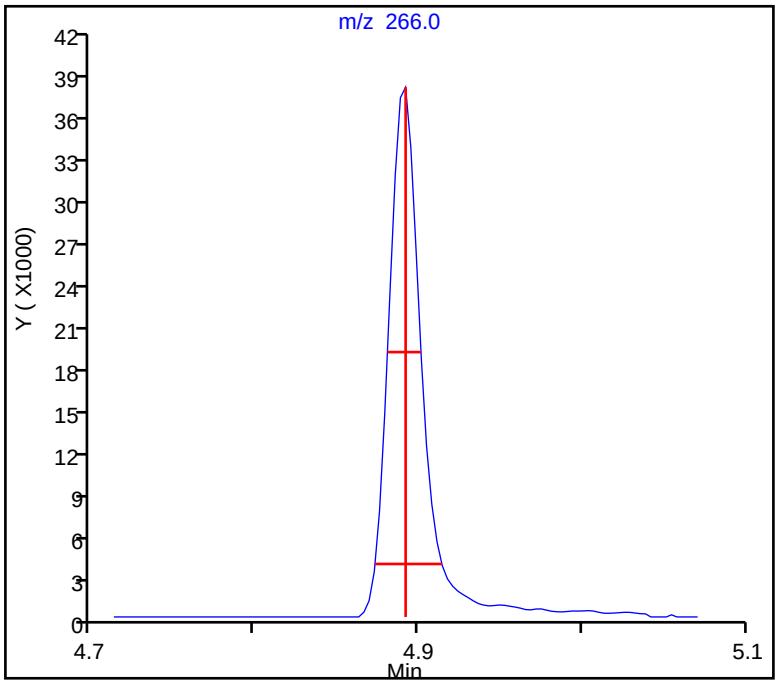
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D
Injection Date: 19-Mar-2018 20:14:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

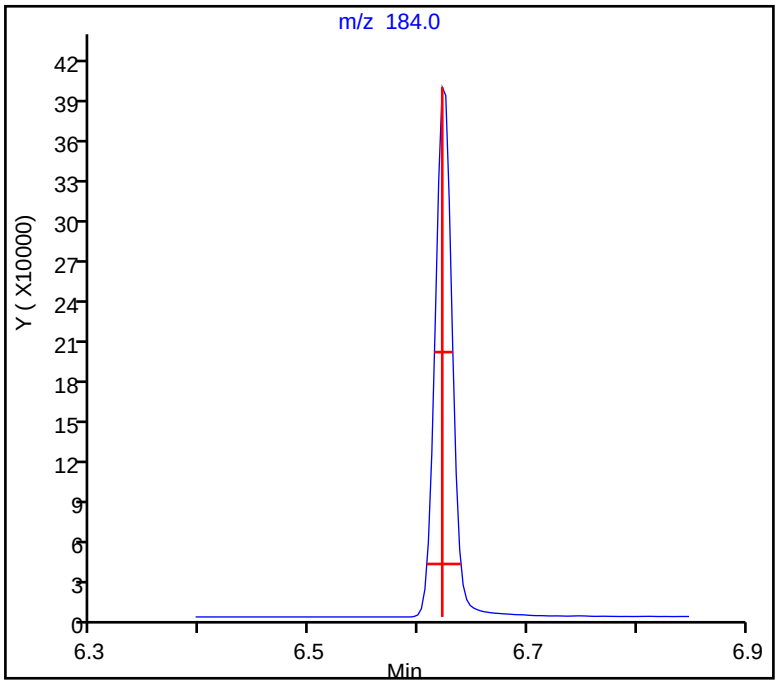
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00820C.D
Injection Date: 19-Mar-2018 20:14:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504508/1-A

Matrix: Water | Lab File ID: P00823.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	U	10	0.43
123-91-1	1,4-Dioxane	3.1	U	10	3.1
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	U	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	U	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	U	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	U	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	U	10	0.61
95-57-8	2-Chlorophenol	0.74	U	10	0.74
91-57-6	2-Methylnaphthalene	0.88	U	10	0.88
95-48-7	2-Methylphenol	1.3	U	10	1.3
88-74-4	2-Nitroaniline	0.65	U	10	0.65
88-75-5	2-Nitrophenol	0.59	U	10	0.59
15831-10-4	3 & 4 Methylphenol	0.88	U	10	0.88
91-94-1	3,3'-Dichlorobenzidine	1.0	U	10	1.0
99-09-2	3-Nitroaniline	0.82	U	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	U	10	0.76
106-47-8	4-Chloroaniline	0.73	U	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	U	10	0.96
106-44-5	4-Methylphenol	0.87	U	10	0.87
100-01-6	4-Nitroaniline	0.48	U	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	U	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	U	10	1.0
120-12-7	Anthracene	0.57	U	10	0.57
1912-24-9	Atrazine	0.77	U	2.0	0.77

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504508/1-A

Matrix: Water | Lab File ID: P00823.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	0.86	U	10	0.86
56-55-3	Benzo[a]anthracene	0.55	U	1.0	0.55
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	U	2.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	U	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	U	1.0	0.18
111-91-1	Bis(2-chloroethoxy)methane	0.69	U	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	U	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	U	10	0.60
105-60-2	Caprolactam	1.1	U	10	1.1
86-74-8	Carbazole	0.85	U	10	0.85
218-01-9	Chrysene	0.67	U	2.0	0.67
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
132-64-9	Dibenzofuran	0.85	U	10	0.85
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	0.98	U	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	U	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	U	10	0.69
206-44-0	Fluoranthene	0.72	U	10	0.72
86-73-7	Fluorene	0.80	U	10	0.80
118-74-1	Hexachlorobenzene	0.47	U	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	U	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.61
67-72-1	Hexachloroethane	0.090	U	2.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	2.0	0.21
78-59-1	Isophorone	0.67	U	10	0.67
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	U	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	U	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	U	10	0.74
87-86-5	Pentachlorophenol	2.2	U	20	2.2
85-01-8	Phenanthrene	0.65	U	10	0.65
108-95-2	Phenol	0.41	U	10	0.41

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504508/1-A

Matrix: Water | Lab File ID: P00823.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
129-00-0	Pyrene	0.83	U	10	0.83

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	105		26-139
321-60-8	2-Fluorobiphenyl	92		45-107
367-12-4	2-Fluorophenol (Surr)	45		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	95		51-108
4165-62-2	Phenol-d5 (Surr)	29		14-39
1718-51-0	Terphenyl-d14 (Surr)	108		40-148

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504508/1-A

Matrix: Water | Lab File ID: P00823.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

Number TICs Found: 4 | TIC Result Total: 29.46

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	7.75	7.86	J	
7098-22-8	Tetratetracontane	10.94	6.90	J N	90%
	Unknown	13.15	7.19	J	
	Unknown	14.67	7.51	J	

Report Date: 20-Mar-2018 11:36:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D
Lims ID: MB 460-504508/1-A
Client ID:
Sample Type: MB
Inject. Date: 19-Mar-2018 21:27:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-004
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: nimerd Date: 20-Mar-2018 11:36:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	2.945	2.938	0.007	92	85629	10.0	4.53	
$ 6 Phenol-d5	99	3.838	3.841	-0.003	99	70181	10.0	2.94	
* 14 1,4-Dichlorobenzene-d4	152	4.173	4.170	0.003	98	104771	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.703	4.707	-0.004	91	203249	10.0	9.55	
* 38 Naphthalene-d8	136	5.392	5.394	-0.002	99	438639	8.00	8.00	
$ 51 2-Fluorobiphenyl	172	6.432	6.432	0.000	97	348799	10.0	9.18	
* 64 Acenaphthene-d10	164	7.064	7.065	-0.001	99	189516	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.814	7.816	-0.002	94	50805	10.0	10.5	
71 2-Naphthylamine	143	8.466	8.407	0.056	41	91		NC	
* 87 Phenanthrene-d10	188	8.466	8.468	-0.002	99	370178	8.00	8.00	
$ 96 Terphenyl-d14	244	9.991	9.988	0.003	99	432609	10.0	10.8	
* 102 Chrysene-d12	240	11.057	11.061	-0.004	98	318851	8.00	8.00	
* 109 Perylene-d12	264	12.867	12.866	0.001	96	305006	8.00	8.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D
Lims ID: MB 460-504508/1-A
Client ID:
Sample Type: MB
Inject. Date: 19-Mar-2018 21:27:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-004
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Tic RT Window: 0.000 -0.000 Response: area
Quant By: Nearest ISTD Quant LOD: 10.00000
MS Library: \\ChromNA\Edison\Database\NIST02.L
Min. Match: 80

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: nimerd Date: 20-Mar-2018 11:36:37

Tentative Identified Compound Results

RT	Area	Amount ug/ml	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
7.747	119705	0.9826	64	0	0		0	
	7098-22-8	Tetratetracontane						
10.939	104786	0.8629	102	90	172957	C44H90	619	
		Unknown						
13.145	105471	0.8988	109	0	0		0	
		Unknown						
14.674	110208	0.9391	109					

Quantitation Compounds

Compound	RT	Area	Amount ug/ml
* 64 Acenaphthene-d10	7.064	974566	8.00
* 102 Chrysene-d12	11.057	971444	8.00
* 109 Perylene-d12	12.867	938812	8.00

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 20-Mar-2018 11:36:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D

Injection Date: 19-Mar-2018 21:27:30 Instrument ID: CBNAMS18 Operator ID:

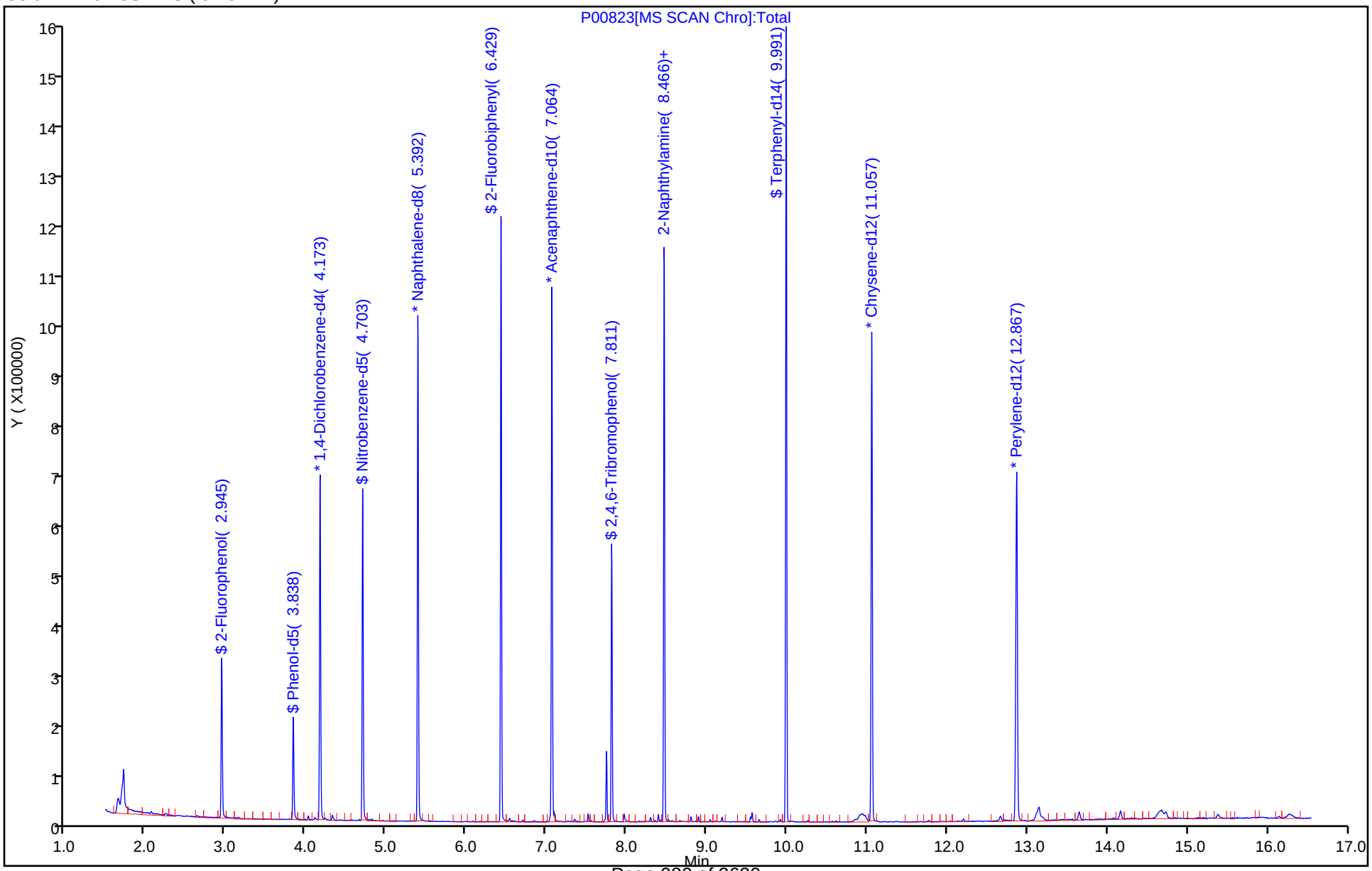
Lims ID: MB 460-504508/1-A Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



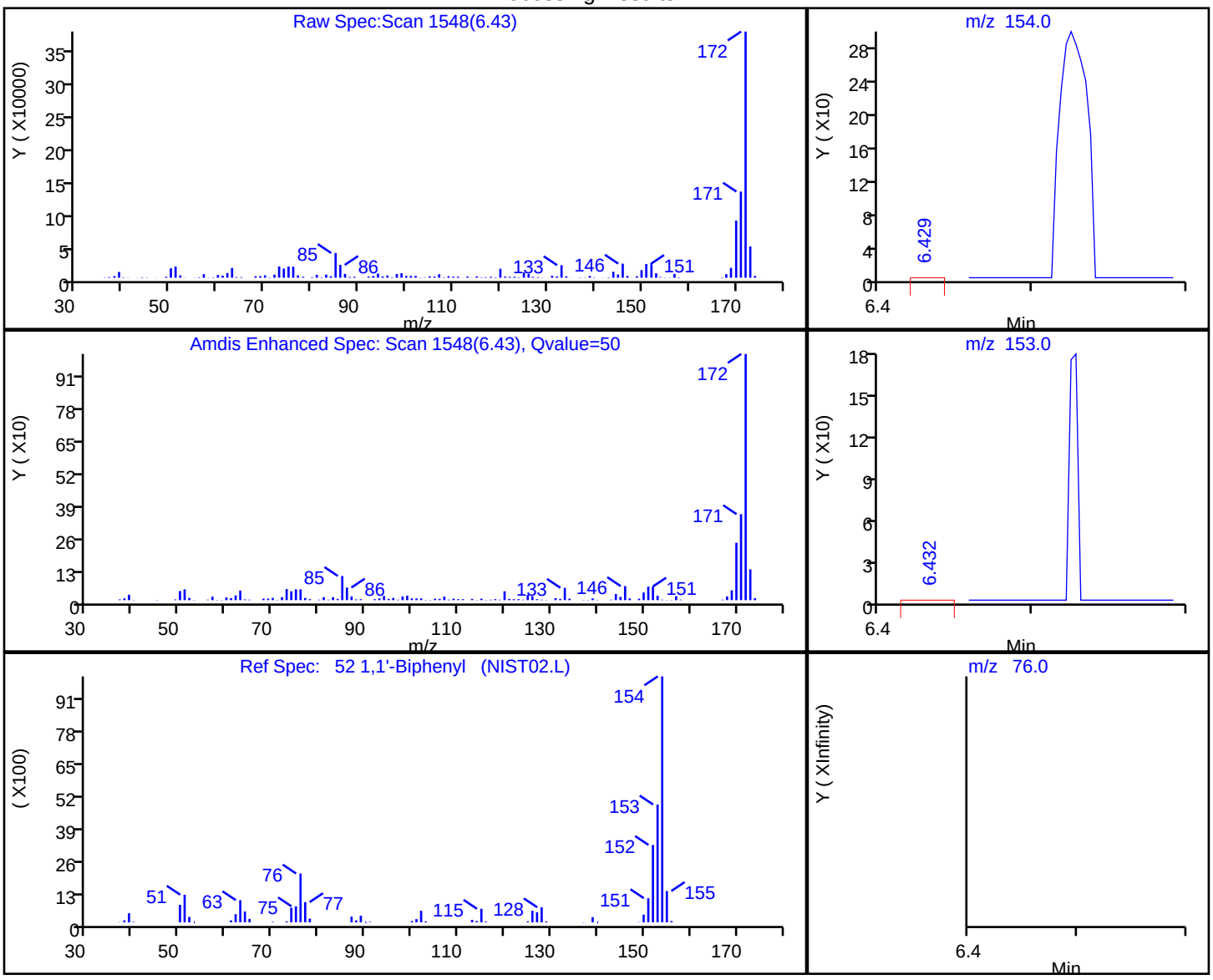
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D				
Injection Date:	19-Mar-2018 21:27:30	Instrument ID:	CBNAMS18		
Lims ID:	MB 460-504508/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

52 1,1'-Biphenyl, CAS: 92-52-4

Processing Results



RT	Mass	Response	Amount
6.43	154.00	754	0.017464
6.43	153.00	6222	
6.43	76.00	15534	

Reviewer: eisam, 19-Mar-2018 22:14:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 20-Mar-2018 11:36:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

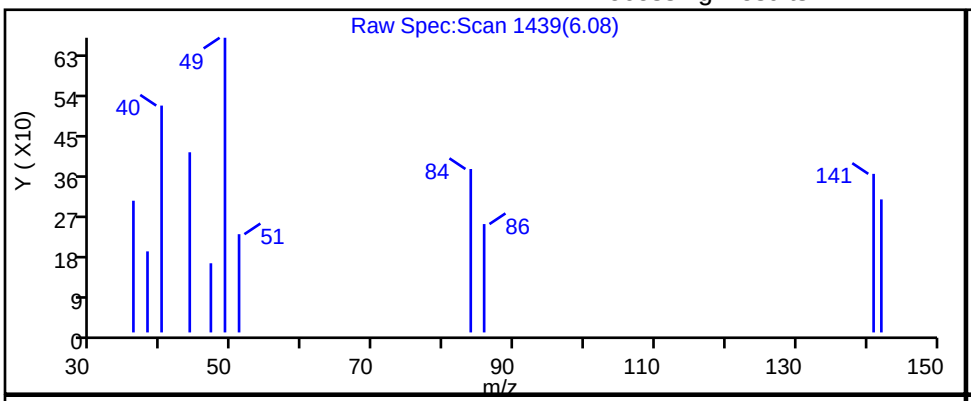
User Disabled Compound Report

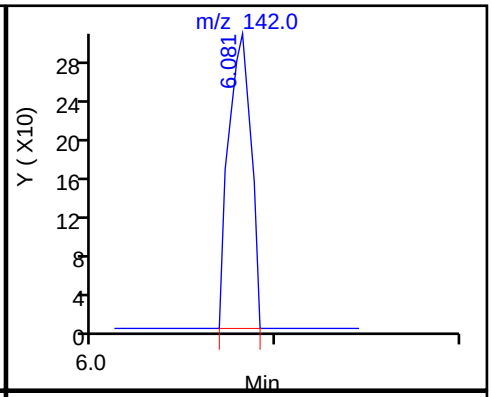
TestAmerica Edison

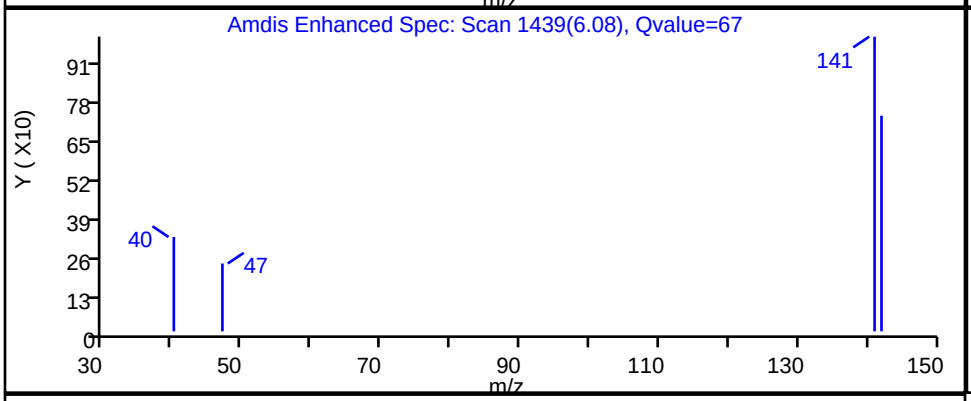
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D				
Injection Date:	19-Mar-2018 21:27:30	Instrument ID:	CBNAMS18		
Lims ID:	MB 460-504508/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

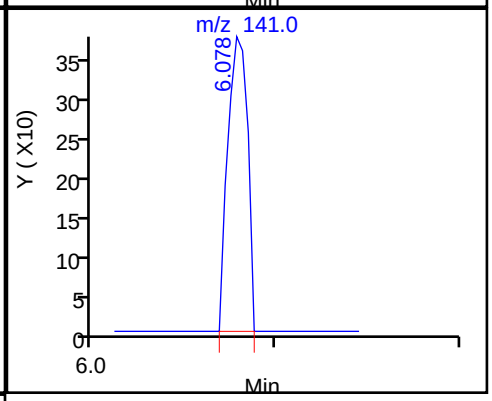
44 2-Methylnaphthalene, CAS: 91-57-6

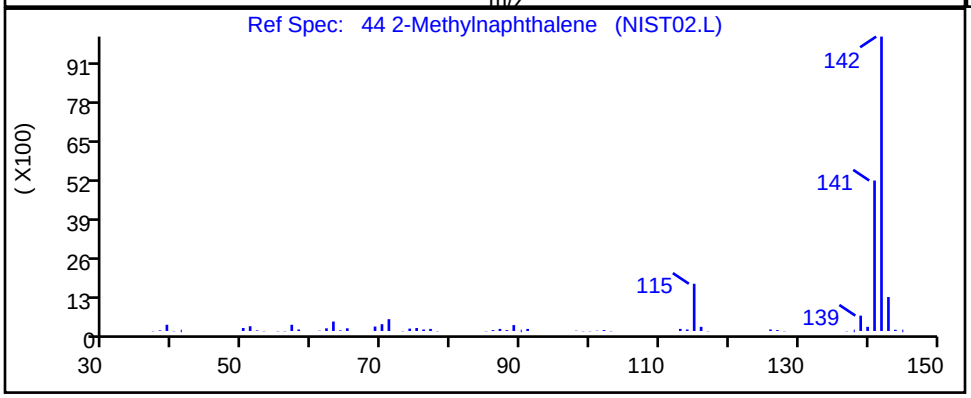
Processing Results











RT	Mass	Response	Amount
6.08	142.00	256	0.007232
6.08	141.00	284	

Reviewer: hamziy, 19-Mar-2018 22:31:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

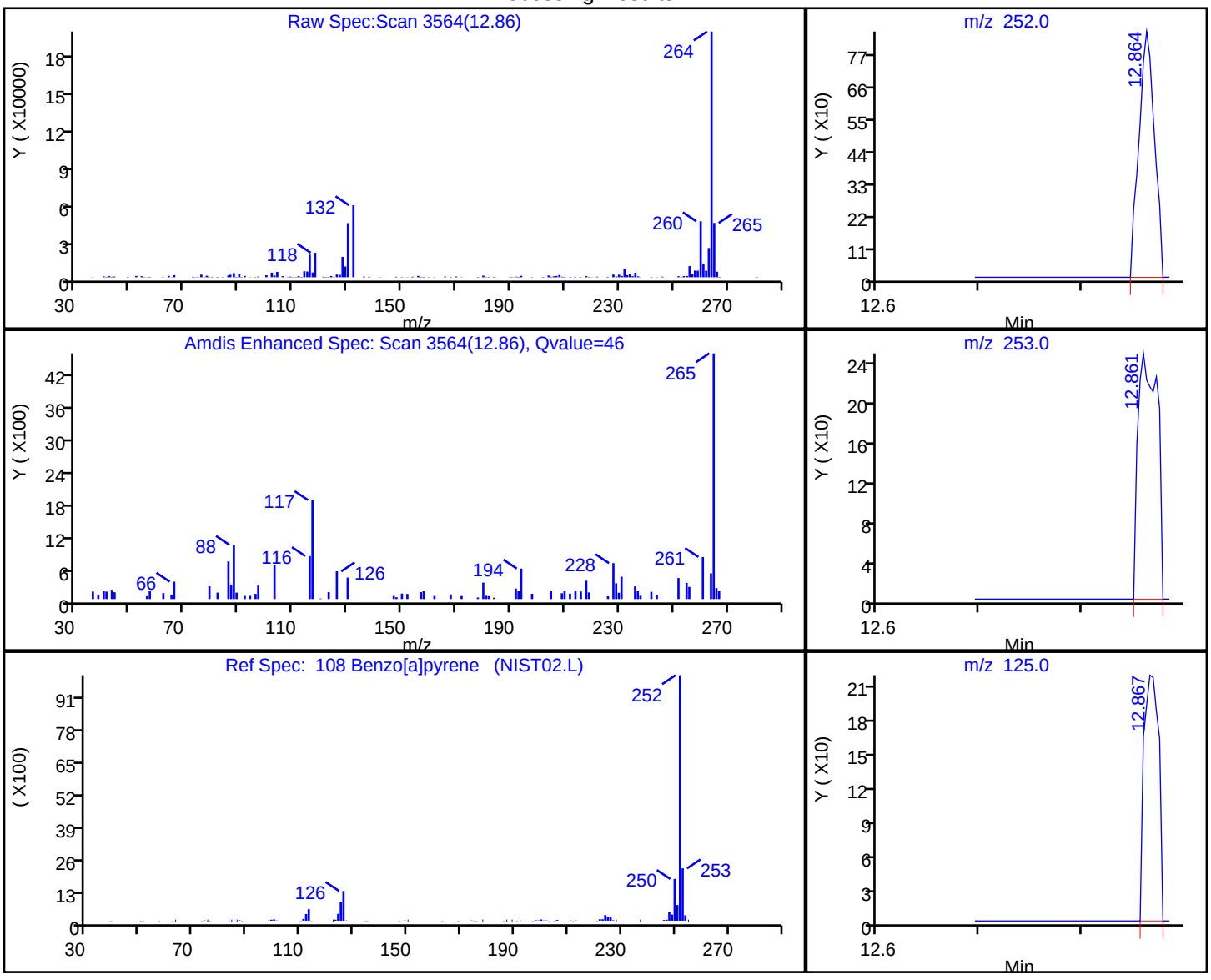
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D				
Injection Date:	19-Mar-2018 21:27:30	Instrument ID:	CBNAMS18		
Lims ID:	MB 460-504508/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
12.86	252.00	889	0.021343
12.86	253.00	327	
12.87	125.00	213	

Reviewer: eisam, 19-Mar-2018 22:14:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 20-Mar-2018 11:36:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D

Injection Date: 19-Mar-2018 21:27:30 Instrument ID: CBNAMS18

Lims ID: MB 460-504508/1-A

Client ID:

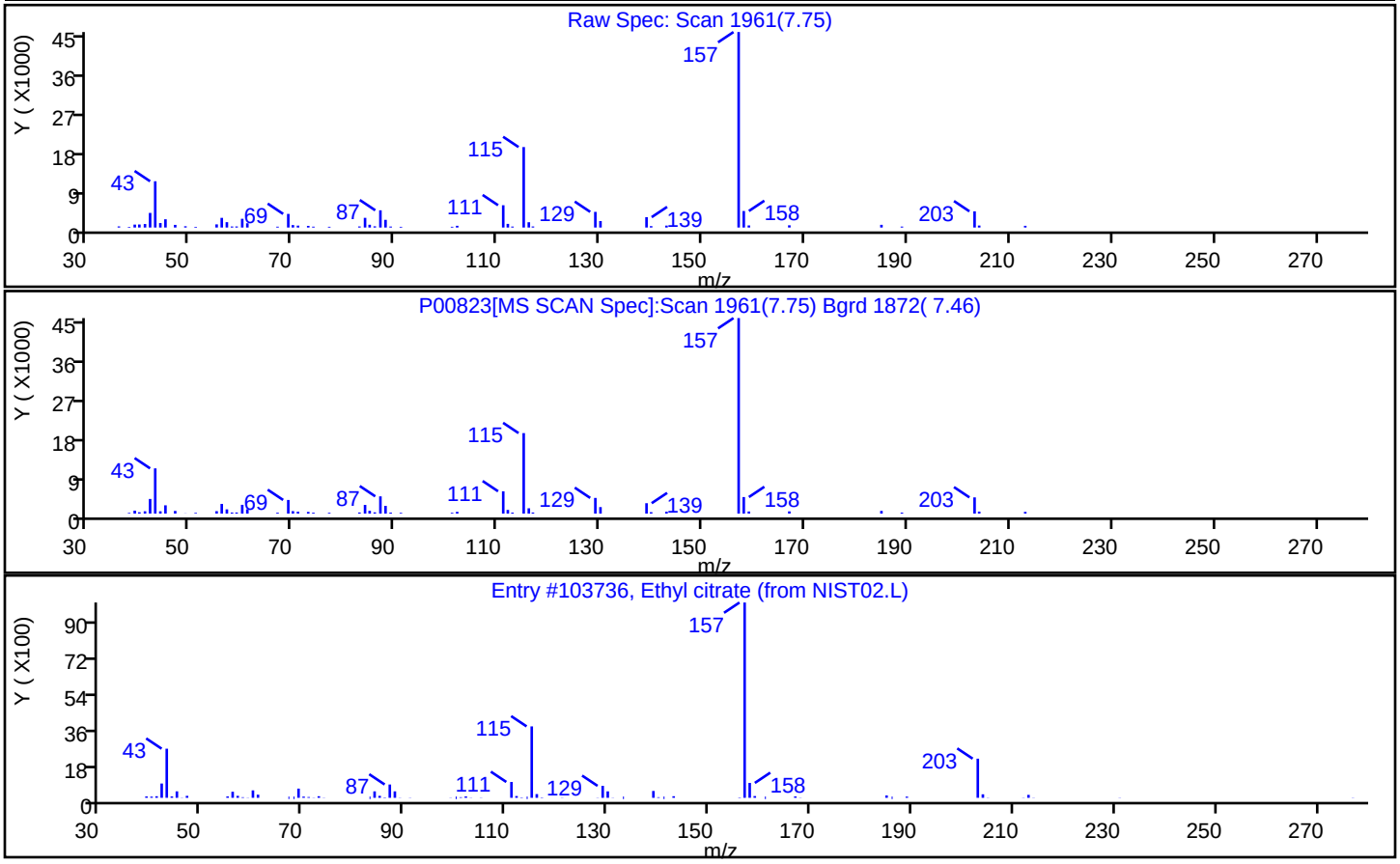
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown						
Ethyl citrate	77-93-0	NIST02.L	103736	C12H20O7	276	83



Report Date: 20-Mar-2018 11:36:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D

Injection Date: 19-Mar-2018 21:27:30 Instrument ID: CBNAMS18

Lims ID: MB 460-504508/1-A

Client ID:

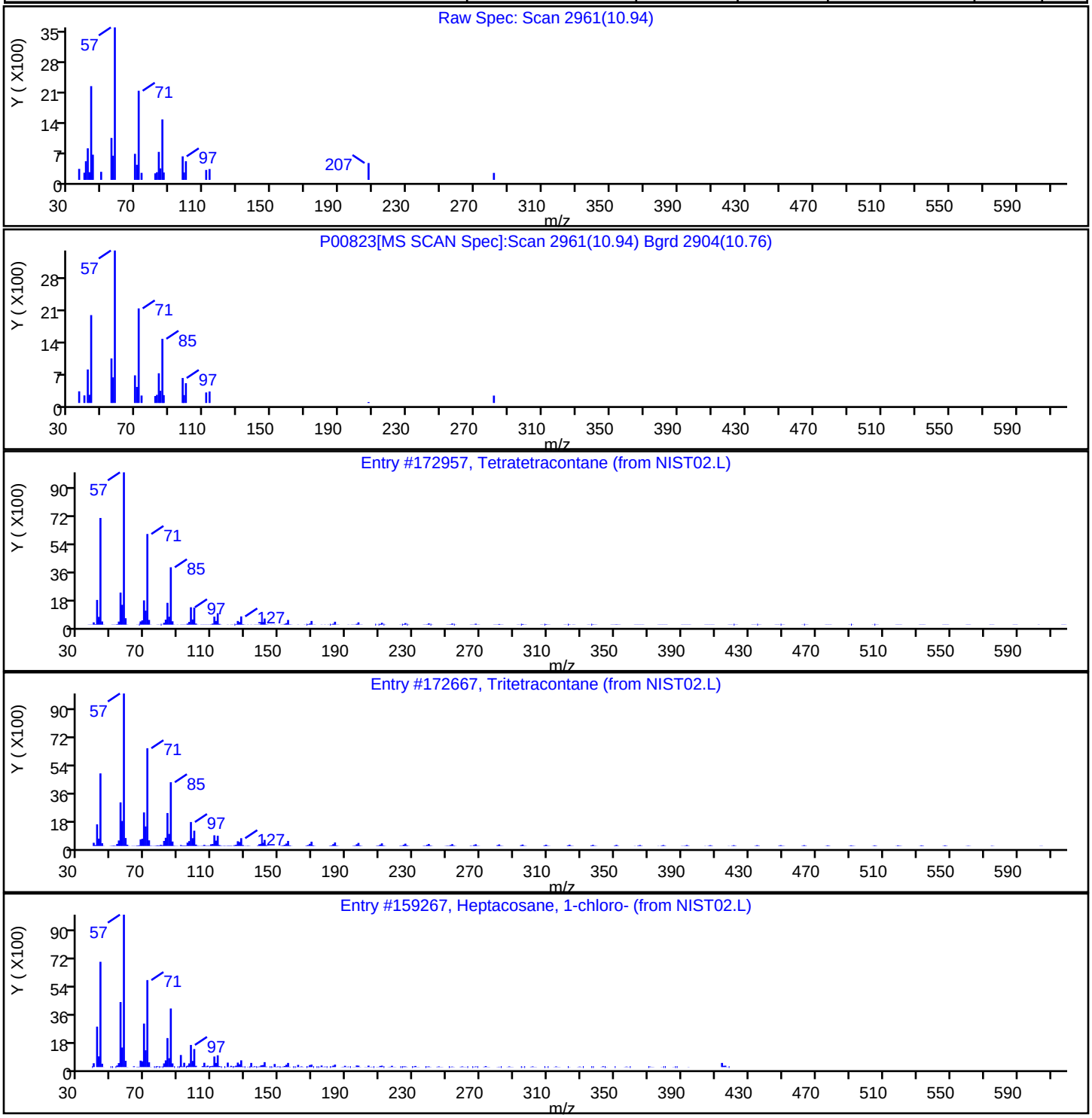
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Tetratetracontane	7098-22-8	NIST02.L	172957	C44H90	619	90
Tritetracontane	7098-21-7	NIST02.L	172667	C43H88	605	90
Heptacosane, 1-chloro-	62016-79-9	NIST02.L	159267	C27H55Cl	414	90



Report Date: 20-Mar-2018 11:36:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D

Injection Date: 19-Mar-2018 21:27:30 Instrument ID: CBNAMS18

Lims ID: MB 460-504508/1-A

Client ID:

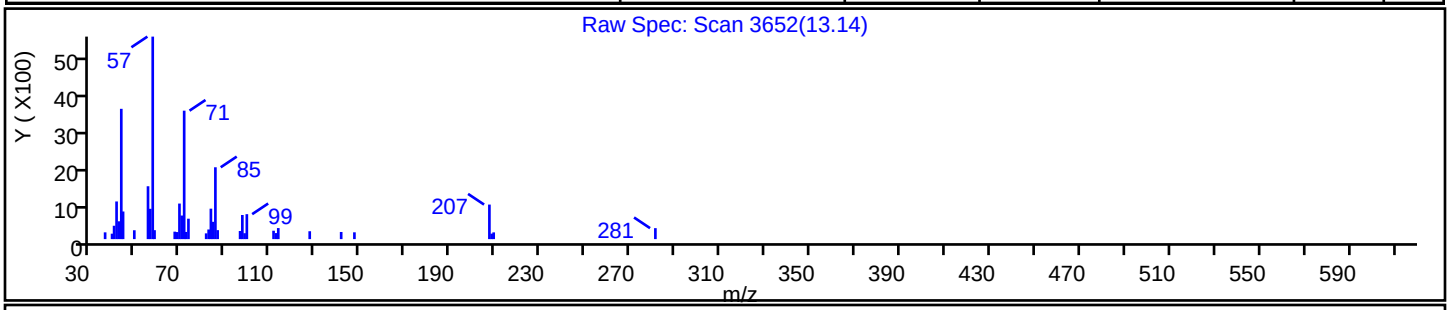
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

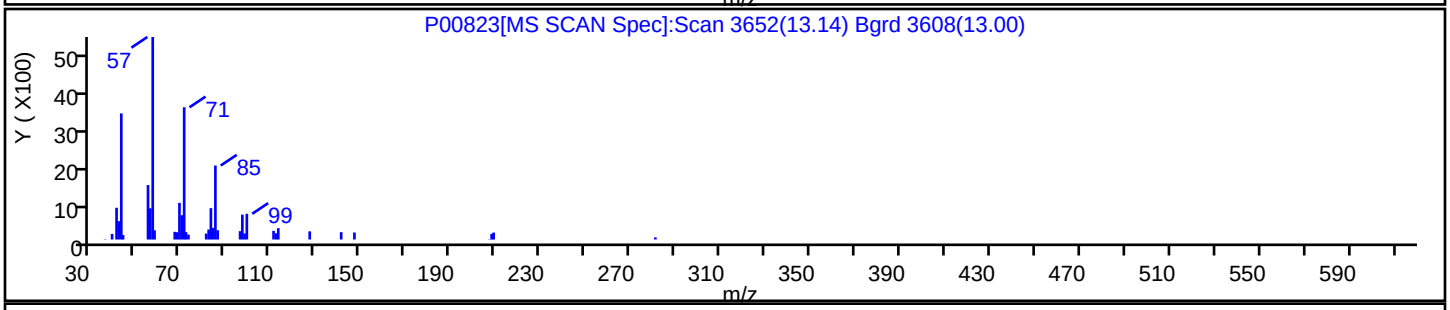
Injection Vol: 5.0 ul Dil. Factor: 1.0000

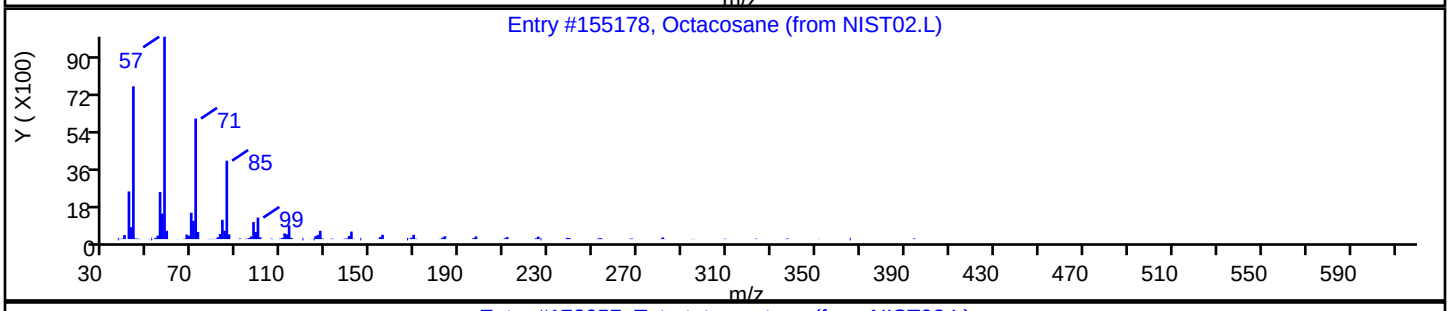
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

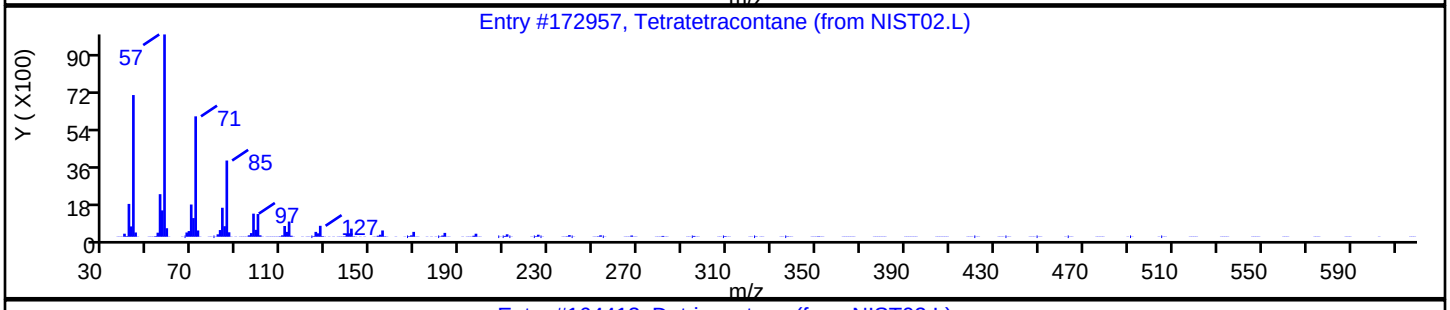
Column: Detector MS SCAN

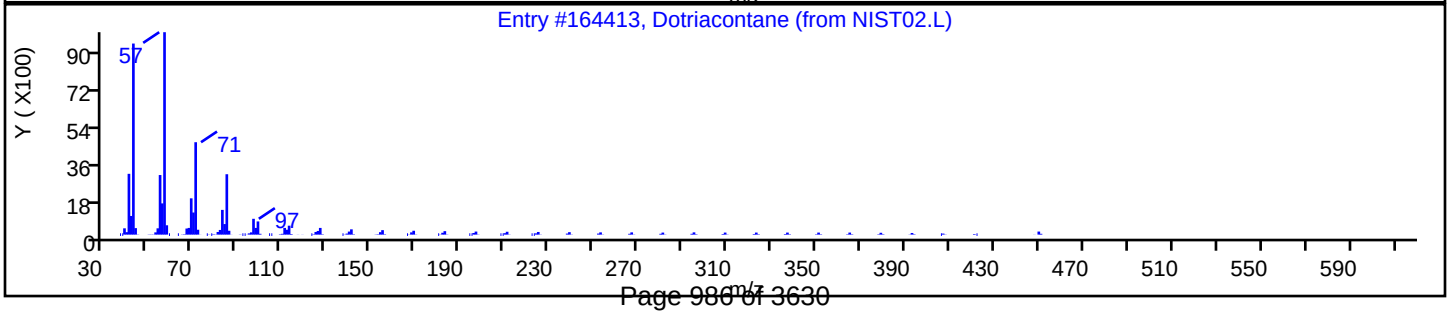
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown						
Octacosane	630-02-4	NIST02.L	155178	C28H58	394	83
Tetratetracontane	7098-22-8	NIST02.L	172957	C44H90	619	80
Dotriacontane	544-85-4	NIST02.L	164413	C32H66	451	80











Report Date: 20-Mar-2018 11:36:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00823.D

Injection Date: 19-Mar-2018 21:27:30 Instrument ID: CBNAMS18

Lims ID: MB 460-504508/1-A

Client ID:

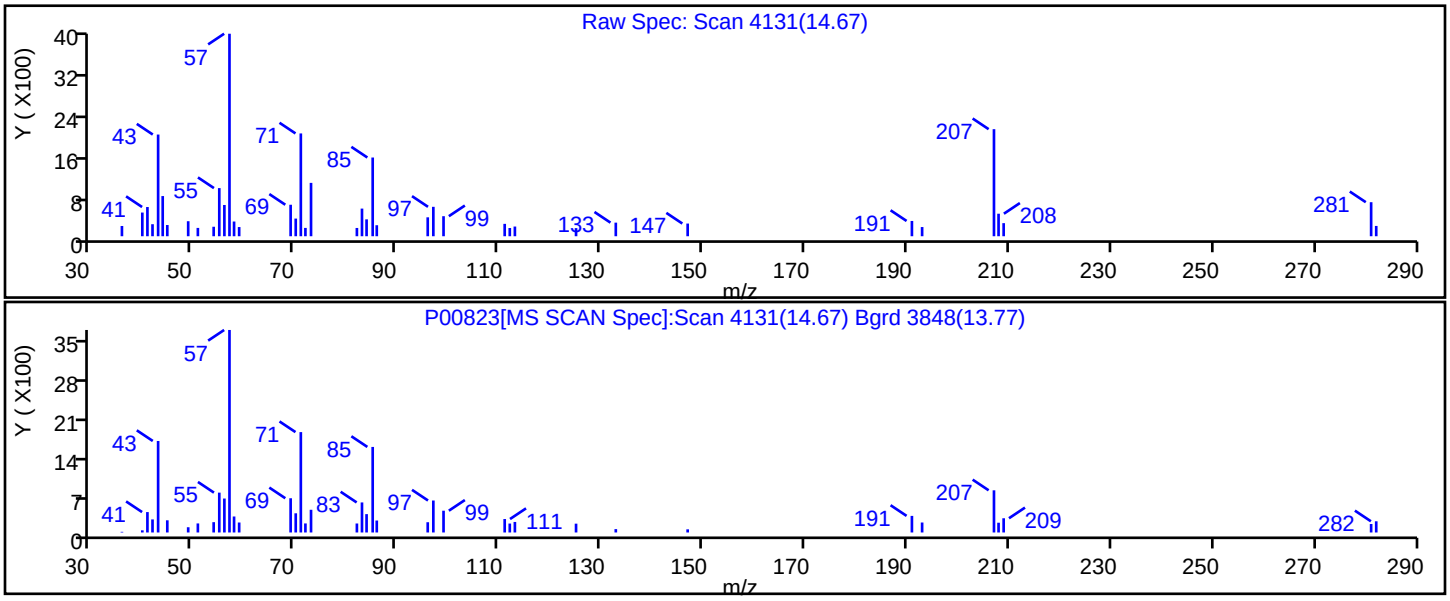
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

No Library Matches Found above the Threshold: 80



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505109/1-A

Matrix: Solid | Lab File ID: L2077649.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:45

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.0044	U	0.33	0.0044
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0043	U	0.33	0.0043
123-91-1	1,4-Dioxane	0.0091	U	0.33	0.0091
108-60-1	2,2'-oxybis[1-chloropropane]	0.0060	U	0.33	0.0060
58-90-2	2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022
95-95-4	2,4,5-Trichlorophenol	0.011	U	0.33	0.011
88-06-2	2,4,6-Trichlorophenol	0.017	U	0.13	0.017
120-83-2	2,4-Dichlorophenol	0.0070	U	0.13	0.0070
105-67-9	2,4-Dimethylphenol	0.015	U	0.33	0.015
51-28-5	2,4-Dinitrophenol	0.16	U	0.27	0.16
121-14-2	2,4-Dinitrotoluene	0.017	U	0.067	0.017
606-20-2	2,6-Dinitrotoluene	0.011	U	0.067	0.011
91-58-7	2-Chloronaphthalene	0.015	U	0.33	0.015
95-57-8	2-Chlorophenol	0.0046	U	0.33	0.0046
91-57-6	2-Methylnaphthalene	0.0041	U	0.33	0.0041
95-48-7	2-Methylphenol	0.0053	U	0.33	0.0053
88-74-4	2-Nitroaniline	0.012	U	0.33	0.012
88-75-5	2-Nitrophenol	0.011	U	0.33	0.011
15831-10-4	3 & 4 Methylphenol	0.0056	U	0.33	0.0056
91-94-1	3,3'-Dichlorobenzidine	0.050	U	0.13	0.050
99-09-2	3-Nitroaniline	0.018	U	0.33	0.018
534-52-1	4,6-Dinitro-2-methylphenol	0.054	U	0.27	0.054
101-55-3	4-Bromophenyl phenyl ether	0.0043	U	0.33	0.0043
59-50-7	4-Chloro-3-methylphenol	0.0055	U	0.33	0.0055
106-47-8	4-Chloroaniline	0.023	U	0.33	0.023
7005-72-3	4-Chlorophenyl phenyl ether	0.0052	U	0.33	0.0052
106-44-5	4-Methylphenol	0.0056	U	0.33	0.0056
100-01-6	4-Nitroaniline	0.012	U	0.33	0.012
100-02-7	4-Nitrophenol	0.054	U	0.67	0.054
83-32-9	Acenaphthene	0.024	U	0.33	0.024
208-96-8	Acenaphthylene	0.0034	U	0.33	0.0034
98-86-2	Acetophenone	0.0053	U	0.33	0.0053
120-12-7	Anthracene	0.0037	U	0.33	0.0037
1912-24-9	Atrazine	0.0083	U	0.13	0.0083

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505109/1-A

Matrix: Solid | Lab File ID: L2077649.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:45

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	0.014	U	0.33	0.014
56-55-3	Benzo[a]anthracene	0.012	U	0.033	0.012
50-32-8	Benzo[a]pyrene	0.0088	U	0.033	0.0088
205-99-2	Benzo[b]fluoranthene	0.0086	U	0.033	0.0086
191-24-2	Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098
207-08-9	Benzo[k]fluoranthene	0.0065	U	0.033	0.0065
111-91-1	Bis(2-chloroethoxy)methane	0.011	U	0.33	0.011
111-44-4	Bis(2-chloroethyl)ether	0.0040	U	0.033	0.0040
117-81-7	Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017
85-68-7	Butyl benzyl phthalate	0.016	U	0.33	0.016
105-60-2	Caprolactam	0.020	U	0.33	0.020
86-74-8	Carbazole	0.0039	U	0.33	0.0039
218-01-9	Chrysene	0.0056	U	0.33	0.0056
53-70-3	Dibenz(a,h)anthracene	0.014	U	0.033	0.014
132-64-9	Dibenzofuran	0.0046	U	0.33	0.0046
84-66-2	Diethyl phthalate	0.0048	U	0.33	0.0048
131-11-3	Dimethyl phthalate	0.0040	U	0.33	0.0040
84-74-2	Di-n-butyl phthalate	0.058	U	0.33	0.058
117-84-0	Di-n-octyl phthalate	0.018	U	0.33	0.018
206-44-0	Fluoranthene	0.0043	U	0.33	0.0043
86-73-7	Fluorene	0.0045	U	0.33	0.0045
118-74-1	Hexachlorobenzene	0.0048	U	0.033	0.0048
87-68-3	Hexachlorobutadiene	0.0070	U	0.067	0.0070
77-47-4	Hexachlorocyclopentadiene	0.029	U	0.33	0.029
67-72-1	Hexachloroethane	0.0051	U	0.033	0.0051
193-39-5	Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013
78-59-1	Isophorone	0.0087	U	0.13	0.0087
91-20-3	Naphthalene	0.0057	U	0.33	0.0057
98-95-3	Nitrobenzene	0.0079	U	0.033	0.0079
621-64-7	N-Nitrosodi-n-propylamine	0.0053	U	0.033	0.0053
86-30-6	N-Nitrosodiphenylamine	0.0063	U	0.33	0.0063
87-86-5	Pentachlorophenol	0.068	U	0.27	0.068
85-01-8	Phenanthrene	0.0058	U	0.33	0.0058
108-95-2	Phenol	0.0049	U	0.33	0.0049

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505109/1-A

Matrix: Solid | Lab File ID: L2077649.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:45

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
129-00-0	Pyrene	0.0082	U	0.33	0.0082

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	90		10-103
321-60-8	2-Fluorobiphenyl	81		38-95
367-12-4	2-Fluorophenol (Surr)	86		25-92
4165-60-0	Nitrobenzene-d5 (Surr)	82		37-94
4165-62-2	Phenol-d5 (Surr)	85		32-91
1718-51-0	Terphenyl-d14 (Surr)	85		24-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-505109/1-A

Matrix: Solid | Lab File ID: L2077649.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:45

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

Number TICs Found: 1 | TIC Result Total: 25.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Aldol condensation product	3.04	25.3	A J	

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077649.d
Lims ID: MB 460-505109/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 10:45:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-007
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:47:47 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:47:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.340	3.328	0.012	92	292669	50.0	43.2	
$ 6 Phenol-d5	99	4.216	4.222	-0.006	0	358221	50.0	42.4	
* 13 1,4-Dichlorobenzene-d4	152	4.563	4.569	-0.006	97	200614	40.0	40.0	
$ 26 Nitrobenzene-d5	82	5.087	5.093	-0.006	93	319972	50.0	41.1	
* 36 Naphthalene-d8	136	5.769	5.775	-0.006	99	810150	40.0	40.0	
$ 50 2-Fluorobiphenyl	172	6.798	6.804	-0.006	97	621908	50.0	40.6	
56 1-Naphthylamine	143	6.798	6.863	-0.065	43	1047		NC	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	98	404085	40.0	40.0	
$ 79 2,4,6-Tribromophenol	330	8.181	8.187	-0.006	95	96773	50.0	44.9	
* 85 Phenanthrene-d10	188	8.839	8.845	-0.006	99	772371	40.0	40.0	
$ 94 Terphenyl-d14	244	10.357	10.363	-0.006	100	637077	50.0	42.3	
* 100 Chrysene-d12	240	11.504	11.516	-0.012	99	652634	40.0	40.0	
* 107 Perylene-d12	264	13.474	13.486	-0.012	97	650644	40.0	40.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077649.d
Lims ID: MB 460-505109/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 10:45:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-007
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:47:47 Calib Date: 15-Mar-2018 20:42:30
Tic RT Window: 0.000 -0.000 Response: area
Quant By: Nearest ISTD Quant LOD: 10.00000
MS Library: \\ChromNA\Edison\Database\NIST02.L
Min. Match: 80

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:47:47

Tentative Identified Compound Results

RT	Area	Amount ug/ml	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Aldol condensation product						
3.040	11849087	379.9	13	0	0		0	

Quantitation Compounds

Compound	RT	Area	Amount ug/ml
* 13 1,4-Dichlorobenzene-d4	4.563	1247686	40.0

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

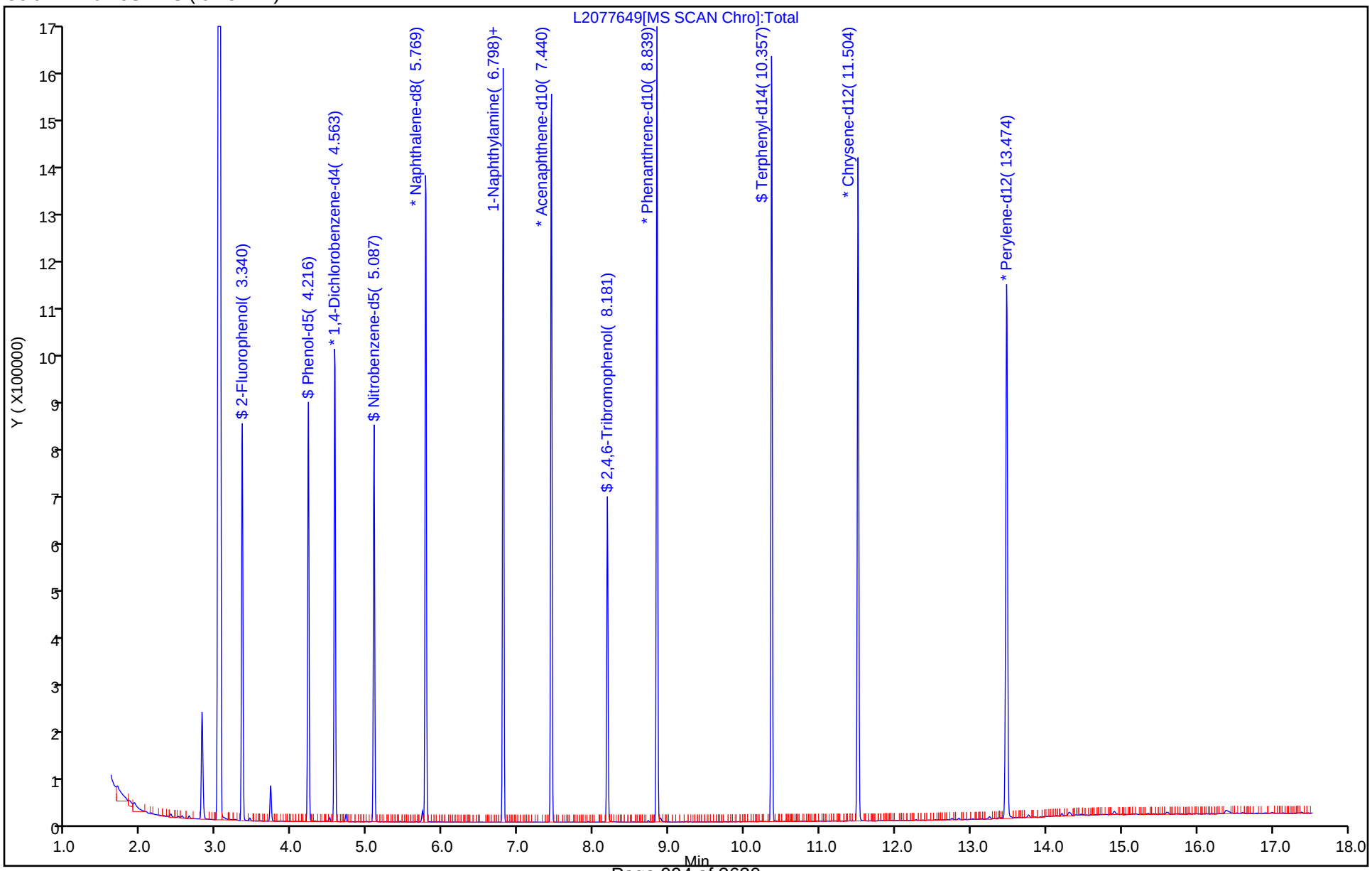
Report Date: 22-Mar-2018 15:47:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077649.d

Injection Date:	22-Mar-2018 10:45:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	MB 460-505109/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



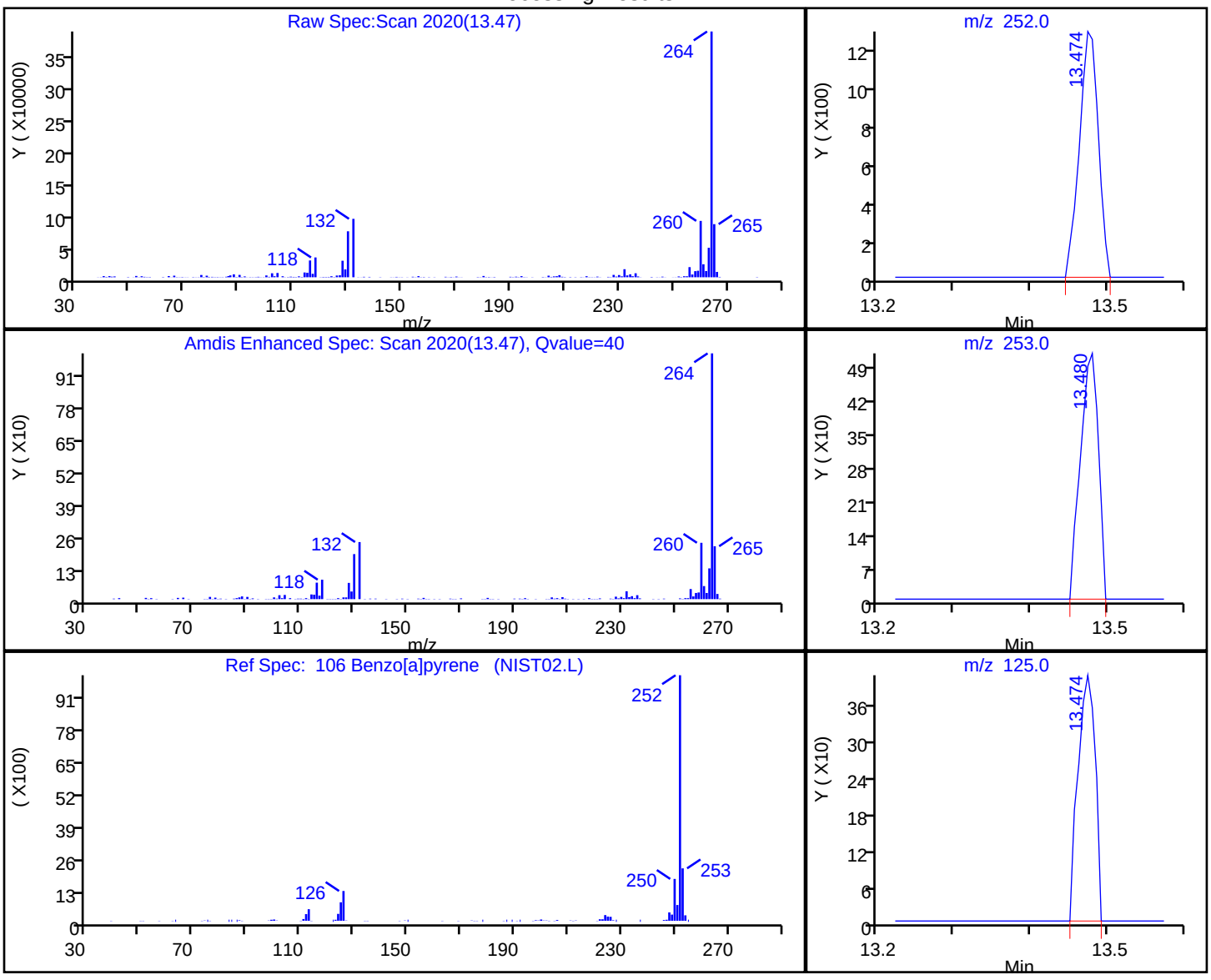
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077649.d				
Injection Date:	22-Mar-2018 10:45:30	Instrument ID:	CBNAMS12		
Lims ID:	MB 460-505109/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
13.47	252.00	2159	0.126071
13.48	253.00	847	
13.47	125.00	629	

Reviewer: croccom, 22-Mar-2018 11:06:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Mar-2018 15:47:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077649.d

Injection Date: 22-Mar-2018 10:45:30 Instrument ID: CBNAMS12

Lims ID: MB 460-505109/1-A

Client ID:

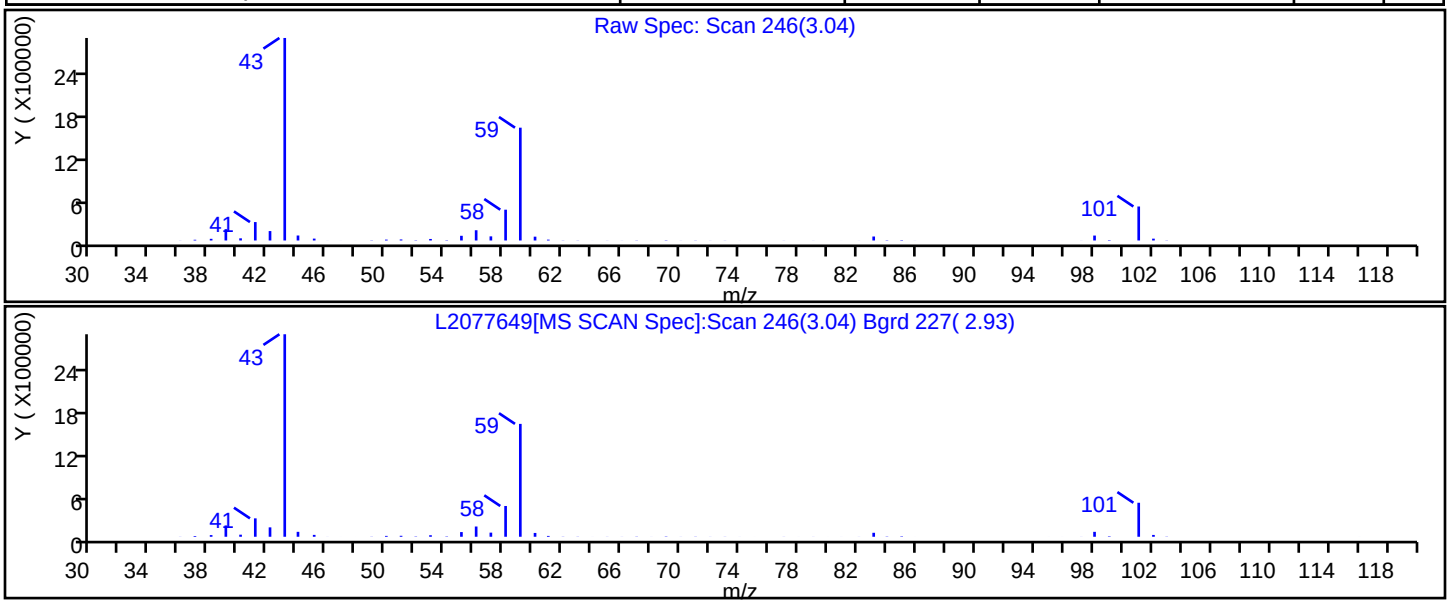
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Aldol condensation product						



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504508/2-A

Matrix: Water | Lab File ID: P00824.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	65.3		10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	62.2		10	0.43
123-91-1	1,4-Dioxane	31.3		10	3.1
108-60-1	2,2'-oxybis[1-chloropropane]	66.2		10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	86.6		10	0.69
95-95-4	2,4,5-Trichlorophenol	77.1		10	0.49
88-06-2	2,4,6-Trichlorophenol	74.6		10	0.53
120-83-2	2,4-Dichlorophenol	71.1		10	0.63
105-67-9	2,4-Dimethylphenol	64.3		10	0.91
51-28-5	2,4-Dinitrophenol	175		20	2.4
121-14-2	2,4-Dinitrotoluene	91.9		2.0	1.0
606-20-2	2,6-Dinitrotoluene	85.4		2.0	0.88
91-58-7	2-Chloronaphthalene	64.6		10	0.61
95-57-8	2-Chlorophenol	58.2		10	0.74
91-57-6	2-Methylnaphthalene	68.0		10	0.88
95-48-7	2-Methylphenol	49.3		10	1.3
88-74-4	2-Nitroaniline	75.6		10	0.65
88-75-5	2-Nitrophenol	72.4		10	0.59
15831-10-4	3 & 4 Methylphenol	43.8		10	0.88
91-94-1	3,3'-Dichlorobenzidine	84.8		10	1.0
99-09-2	3-Nitroaniline	65.2		10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	193		20	2.0
101-55-3	4-Bromophenyl phenyl ether	73.8		10	1.0
59-50-7	4-Chloro-3-methylphenol	69.5		10	0.76
106-47-8	4-Chloroaniline	61.9		10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	77.7		10	0.96
106-44-5	4-Methylphenol	44.2		10	0.87
100-01-6	4-Nitroaniline	77.7		10	0.48
100-02-7	4-Nitrophenol	51.5		20	4.7
83-32-9	Acenaphthene	69.2		10	0.88
208-96-8	Acenaphthylene	68.5		10	0.65
98-86-2	Acetophenone	74.6		10	1.0
120-12-7	Anthracene	78.8		10	0.57
56-55-3	Benzo[a]anthracene	83.9		1.0	0.55

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504508/2-A

Matrix: Water | Lab File ID: P00824.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	90.1		1.0	0.16
205-99-2	Benzo[b]fluoranthene	87.2		2.0	0.44
191-24-2	Benzo[g,h,i]perylene	87.3		10	0.75
207-08-9	Benzo[k]fluoranthene	87.1		1.0	0.18
111-91-1	Bis(2-chloroethoxy)methane	72.6		10	0.69
111-44-4	Bis(2-chloroethyl)ether	70.7		1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	105		2.0	0.72
85-68-7	Butyl benzyl phthalate	94.0		10	0.60
86-74-8	Carbazole	85.8		10	0.85
218-01-9	Chrysene	83.3		2.0	0.67
53-70-3	Dibenz(a,h)anthracene	92.3		1.0	0.090
132-64-9	Dibenzofuran	71.7		10	0.85
84-66-2	Diethyl phthalate	91.6		10	1.0
131-11-3	Dimethyl phthalate	84.4		10	0.98
84-74-2	Di-n-butyl phthalate	95.2		10	0.82
117-84-0	Di-n-octyl phthalate	102		10	0.69
206-44-0	Fluoranthene	91.0		10	0.72
86-73-7	Fluorene	75.5		10	0.80
118-74-1	Hexachlorobenzene	75.6		1.0	0.47
87-68-3	Hexachlorobutadiene	53.0		1.0	0.76
77-47-4	Hexachlorocyclopentadiene	57.7		10	0.61
67-72-1	Hexachloroethane	44.5		2.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	95.6		2.0	0.21
78-59-1	Isophorone	77.5		10	0.67
91-20-3	Naphthalene	61.5		10	0.80
98-95-3	Nitrobenzene	74.7		1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	75.6		1.0	0.83
86-30-6	N-Nitrosodiphenylamine	74.8		10	0.74
87-86-5	Pentachlorophenol	165		20	2.2
85-01-8	Phenanthrene	78.4		10	0.65
108-95-2	Phenol	22.6		10	0.41
129-00-0	Pyrene	80.2		10	0.83

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504508/2-A

Matrix: Water | Lab File ID: P00824.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 21:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	105		26-139
321-60-8	2-Fluorobiphenyl	85		45-107
367-12-4	2-Fluorophenol (Surr)	40		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	88		51-108
4165-62-2	Phenol-d5 (Surr)	26		14-39
1718-51-0	Terphenyl-d14 (Surr)	101		40-148

Report Date: 20-Mar-2018 11:37:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00824.D
Lims ID: LCS 460-504508/2-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Mar-2018 21:48:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-005
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: eisam Date: 19-Mar-2018 22:16:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.639	1.620	0.019	98	29461	10.0	3.91	
	2 N-Nitrosodimethylamine	74	1.844	1.828	0.016	87	49966	10.0	4.12	
	3 Pyridine	79	1.876	1.856	0.020	85	106156	20.0	5.07	
$	4 2-Fluorophenol	112	2.951	2.938	0.013	92	71019	10.0	3.98	
$	6 Phenol-d5	99	3.841	3.841	0.000	99	58827	10.0	2.61	
	7 Phenol	94	3.854	3.851	0.003	95	72205	10.0	2.82	
	8 Aniline	93	3.861	3.854	0.006	99	167835	10.0	5.79	
	9 Bis(2-chloroethyl)ether	93	3.918	3.915	0.003	91	160055	10.0	8.84	
	10 Benzonitrile	103	3.931	3.928	0.003	100	324446	NC	NC	
	11 2-Chlorophenol	128	3.982	3.975	0.007	93	131991	10.0	7.27	
	12 n-Decane	43	4.027	4.023	0.004	94	117568	10.0	4.38	
	13 1,3-Dichlorobenzene	146	4.122	4.119	0.003	94	118686	10.0	5.97	
*	14 1,4-Dichlorobenzene-d4	152	4.174	4.170	0.004	98	98820	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.189	4.186	0.003	93	121617	10.0	6.09	
	16 Benzyl alcohol	108	4.311	4.308	0.003	92	77864	10.0	6.88	
	17 1,2-Dichlorobenzene	146	4.340	4.336	0.004	94	121507	10.0	6.44	
	18 2-Methylphenol	108	4.432	4.432	0.000	91	98832	10.0	6.17	
	19 2,2'-oxybis[1-chloropropan	45	4.439	4.439	0.000	94	277948	10.0	8.27	
	20 N-Methylaniline	106	4.557	4.554	0.003	98	218508	10.0	8.13	
	21 Acetophenone	105	4.563	4.560	0.003	95	226586	10.0	9.32	
	22 N-Nitrosodi-n-propylamine	70	4.566	4.563	0.003	91	129120	10.0	9.45	
	23 3 & 4 Methylphenol	108	4.586	4.582	0.004	63	93813	10.0	5.47	
	24 4-Methylphenol	108	4.586	4.582	0.004	94	92955	10.0	5.52	
	25 Hexachloroethane	117	4.662	4.659	0.003	94	42468	10.0	5.56	
$	27 Nitrobenzene-d5	82	4.707	4.707	0.000	90	176818	10.0	8.80	
	28 Nitrobenzene	123	4.726	4.723	0.003	91	75180	10.0	9.34	
	29 n,n'-Dimethylaniline	120	4.729	4.729	0.000	98	224073	10.0	8.36	
	30 Isophorone	82	4.953	4.953	0.000	99	322016	10.0	9.69	
	32 2-Nitrophenol	139	5.033	5.033	0.000	89	79301	10.0	9.05	
	33 2,4-Dimethylphenol	122	5.090	5.090	0.000	90	125476	10.0	8.04	
	34 Bis(2-chloroethoxy)methane	93	5.167	5.167	0.000	95	194952	10.0	9.08	
	35 Benzoic acid	122	5.167	5.199	-0.032	87	20937	10.0	3.40	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.272	5.272	0.000	94	116892	10.0	8.88	
37 1,2,4-Trichlorobenzene	180	5.342	5.342	0.000	94	110795	10.0	7.40	
* 38 Naphthalene-d8	136	5.394	5.394	0.000	99	414014	8.00	8.00	
39 Naphthalene	128	5.416	5.416	0.000	99	405842	10.0	7.68	
40 4-Chloroaniline	127	5.473	5.473	0.000	96	161503	10.0	7.74	
41 Hexachlorobutadiene	225	5.544	5.544	0.000	94	51438	10.0	6.63	
43 4-Chloro-3-methylphenol	107	5.956	5.956	0.000	97	118624	10.0	8.68	
44 2-Methylnaphthalene	142	6.077	6.077	0.000	84	283992	10.0	8.50	
45 1-Methylnaphthalene	142	6.170	6.170	0.000	93	269545	10.0	8.59	
46 Hexachlorocyclopentadiene	237	6.237	6.237	0.000	96	62420	10.0	7.21	
47 1,2,4,5-Tetrachlorobenzene	216	6.240	6.240	0.000	96	112221	10.0	7.78	
48 2-tertbutyl-4-methylphenol	149	6.288	6.288	0.000	88	207629	10.0	10.8	
49 2,4,6-Trichlorophenol	196	6.355	6.355	0.000	87	83916	10.0	9.32	
50 2,4,5-Trichlorophenol	196	6.390	6.393	-0.003	95	91122	10.0	9.64	
$ 51 2-Fluorobiphenyl	172	6.432	6.432	0.000	97	310419	10.0	8.51	
52 1,1'-Biphenyl	154	6.524	6.524	0.000	97	338191	10.0	8.16	
53 2-Chloronaphthalene	162	6.537	6.541	-0.003	97	251638	10.0	8.07	
54 Phenyl ether	170	6.624	6.627	-0.003	87	176015	10.0	8.95	
55 2-Nitroaniline	65	6.643	6.643	0.000	97	116799	10.0	9.45	
57 1,3-Dimethylnaphthalene	156	6.748	6.748	0.000	90	227082	10.0	9.01	
59 Dimethyl phthalate	163	6.822	6.825	-0.003	97	337320	10.0	10.6	
60 Coumarin	146	6.835	6.835	0.000	78	119077	10.0	12.1	
61 2,6-Dinitrotoluene	165	6.873	6.873	0.000	93	73113	10.0	10.7	
62 Acenaphthylene	152	6.930	6.930	0.000	97	398349	10.0	8.56	
63 3-Nitroaniline	138	7.033	7.036	-0.003	92	70734	10.0	8.16	
* 64 Acenaphthene-d10	164	7.065	7.065	0.000	99	181817	8.00	8.00	
66 Acenaphthene	154	7.097	7.097	0.000	97	245667	10.0	8.64	
65 3,5-di-tert-butyl-4-hydrox	205	7.100	7.100	0.000	98	228747	10.0	9.89	
67 2,4-Dinitrophenol	184	7.132	7.132	0.000	92	97111	20.0	21.8	
68 4-Nitrophenol	65	7.221	7.225	-0.004	96	41209	20.0	6.43	M
69 2,4-Dinitrotoluene	165	7.253	7.253	0.000	95	103266	10.0	11.5	
70 Dibenzofuran	168	7.260	7.263	-0.003	95	370379	10.0	8.96	
72 2,3,4,6-Tetrachlorophenol	232	7.384	7.388	-0.004	91	76037	10.0	10.8	
73 Diethyl phthalate	149	7.493	7.496	-0.003	97	365581	10.0	11.5	
75 Fluorene	166	7.583	7.586	-0.003	95	301701	10.0	9.43	
74 4-Chlorophenyl phenyl ethe	204	7.589	7.589	0.000	85	136947	10.0	9.71	
76 4-Nitroaniline	138	7.615	7.615	0.000	94	81803	10.0	9.72	
77 4,6-Dinitro-2-methylphenol	198	7.640	7.643	-0.003	87	112936	20.0	24.1	
78 N-Nitrosodiphenylamine	169	7.704	7.704	0.000	98	230946	10.0	9.35	
79 1,2-Diphenylhydrazine	77	7.736	7.739	-0.003	99	358560	10.0	8.93	
$ 80 2,4,6-Tribromophenol	330	7.813	7.816	-0.003	93	48766	10.0	10.5	
81 4-Bromophenyl phenyl ether	248	8.049	8.049	0.000	84	85693	10.0	9.23	
82 Hexachlorobenzene	284	8.110	8.110	0.000	99	92519	10.0	9.45	
84 Pentachlorophenol	266	8.302	8.302	0.000	92	114474	20.0	20.6	
85 Pentachloronitrobenzene	237	8.311	8.311	0.000	86	46492	10.0	11.2	
86 n-Octadecane	57	8.395	8.394	0.001	91	281523	10.0	9.35	
* 87 Phenanthrene-d10	188	8.468	8.468	0.000	99	341652	8.00	8.00	
88 Phenanthrene	178	8.491	8.490	0.001	98	481575	10.0	9.80	
89 Anthracene	178	8.539	8.538	0.000	98	494074	10.0	9.85	
90 Carbazole	167	8.698	8.698	0.000	96	472555	10.0	10.7	
91 Di-n-butyl phthalate	149	9.043	9.043	0.000	100	611636	10.0	11.9	
92 Fluoranthene	202	9.615	9.617	-0.003	97	535404	10.0	11.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Benzidine	184	9.749	9.751	-0.002	99	69104	10.0	3.17	
94 Pyrene	202	9.829	9.828	0.001	96	534517	10.0	10.0	
95 Bisphenol-A	213	9.896	9.898	-0.002	97	104301	5.00	5.29	
$ 96 Terphenyl-d14	244	9.988	9.988	0.000	99	377717	10.0	10.1	
97 Butyl benzyl phthalate	149	10.480	10.483	-0.003	97	262976	10.0	11.7	
99 Carbamazepine	193	10.582	10.582	0.000	92	238370	10.0	11.8	
100 3,3'-Dichlorobenzidine	252	11.036	11.035	0.001	99	174595	10.0	10.6	
101 Benzo[a]anthracene	228	11.049	11.048	0.001	100	463644	10.0	10.5	
* 102 Chrysene-d12	240	11.058	11.061	-0.003	98	298846	8.00	8.00	
104 Chrysene	228	11.087	11.090	-0.003	98	447342	10.0	10.4	
103 Bis(2-ethylhexyl) phthalat	149	11.123	11.125	-0.003	87	369813	10.0	13.1	
105 Di-n-octyl phthalate	149	11.914	11.917	-0.003	97	623783	10.0	12.7	
106 Benzo[b]fluoranthene	252	12.358	12.358	0.000	97	474088	10.0	10.9	
107 Benzo[k]fluoranthene	252	12.393	12.396	-0.003	98	493539	10.0	10.9	
108 Benzo[a]pyrene	252	12.786	12.789	-0.003	95	473495	10.0	11.3	
* 109 Perylene-d12	264	12.866	12.866	0.000	96	307786	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.345	14.345	0.000	97	457639	10.0	11.9	M
111 Dibenz(a,h)anthracene	278	14.383	14.386	-0.003	96	454857	10.0	11.5	
112 Benzo[g,h,i]perylene	276	14.741	14.741	0.000	94	471956	10.0	10.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 20-Mar-2018 11:37:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00824.D

Injection Date: 19-Mar-2018 21:48:30 Instrument ID: CBNAMS18 Operator ID:

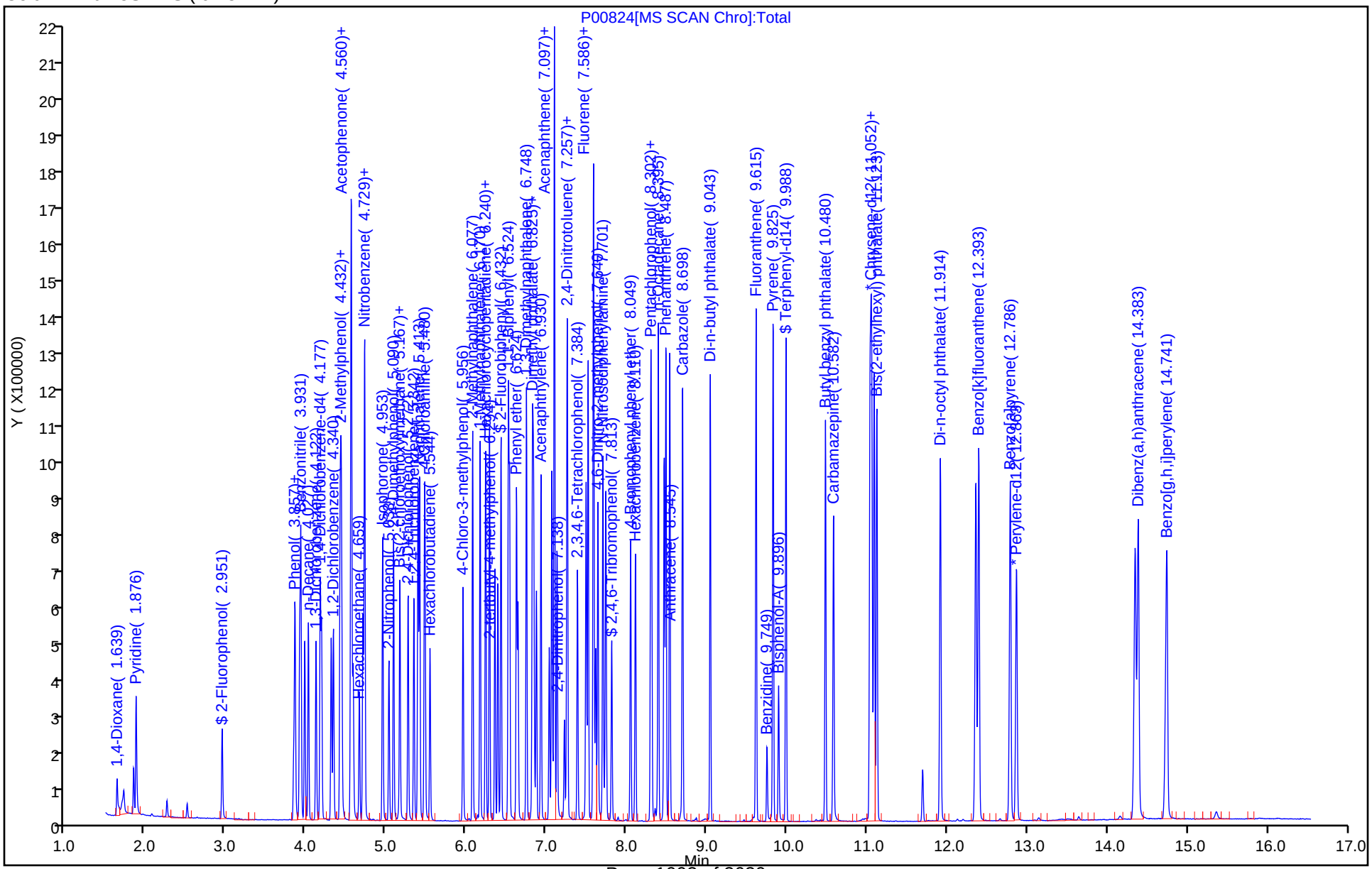
Lims ID: LCS 460-504508/2-A Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

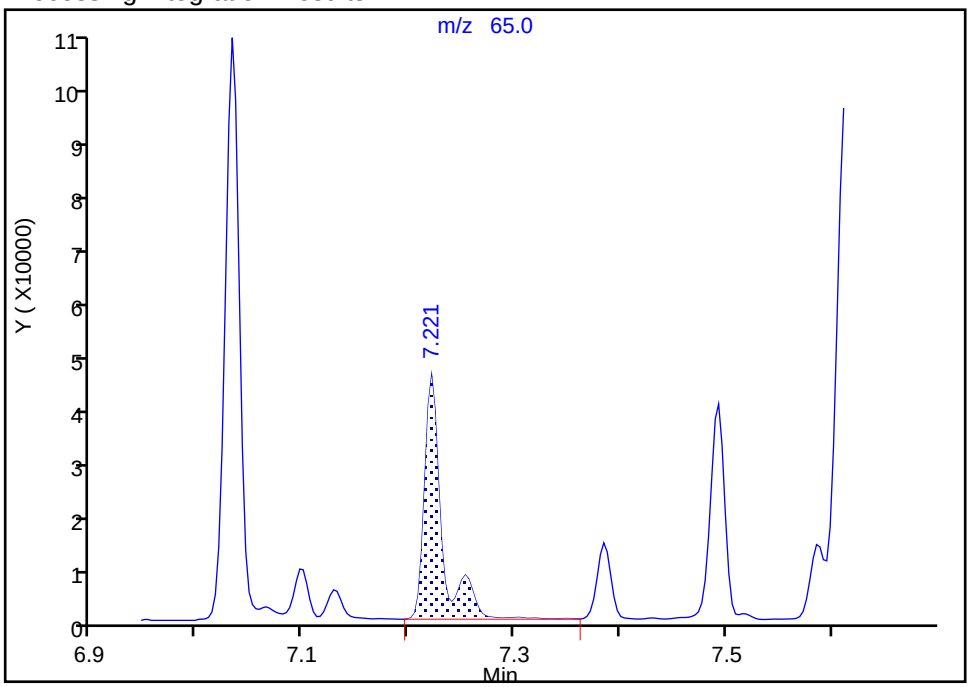
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00824.D				
Injection Date:	19-Mar-2018 21:48:30	Instrument ID:	CBNAMS18		
Lims ID:	LCS 460-504508/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

68 4-Nitrophenol, CAS: 100-02-7

Signal: 1

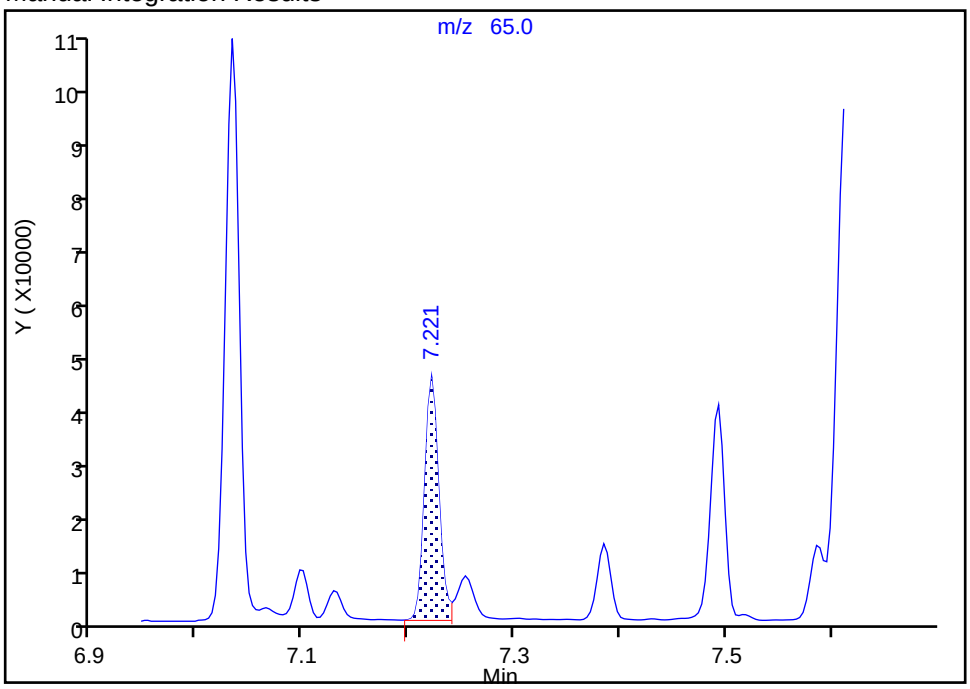
Processing Integration Results

RT: 7.22
Area: 50354
Amount: 7.861073
Amount Units: ug/ml



Manual Integration Results

RT: 7.22
Area: 41209
Amount: 6.433390
Amount Units: ug/ml



Reviewer: croccom, 20-Mar-2018 10:08:03

Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

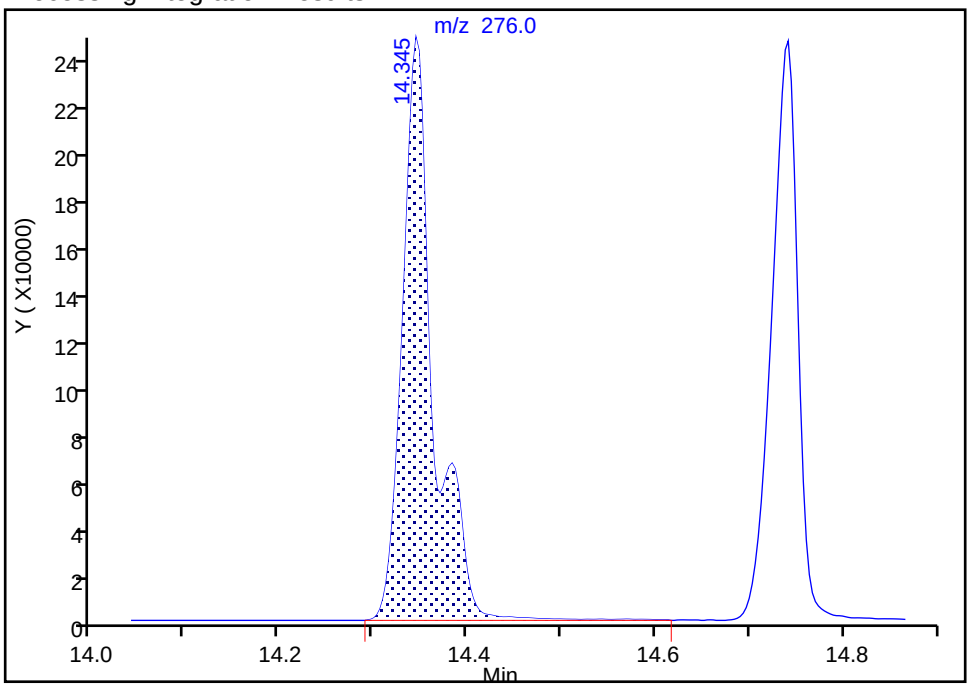
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00824.D				
Injection Date:	19-Mar-2018 21:48:30	Instrument ID:	CBNAMS18		
Lims ID:	LCS 460-504508/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

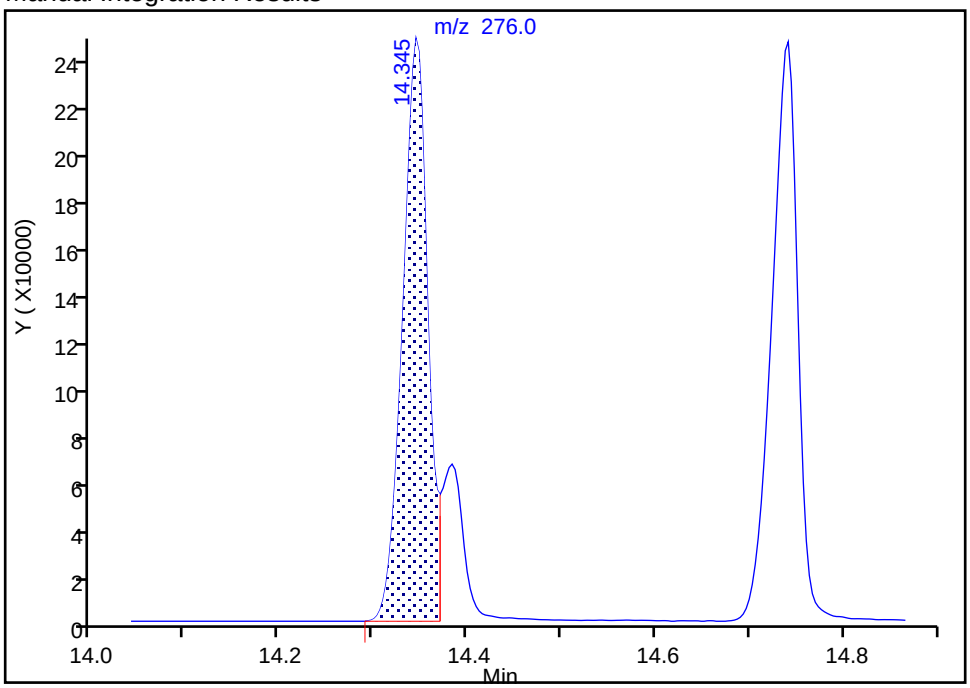
Processing Integration Results

RT: 14.35
Area: 562241
Amount: 11.175768
Amount Units: ug/ml



Manual Integration Results

RT: 14.35
Area: 457639
Amount: 11.947843
Amount Units: ug/ml



Reviewer: eisam, 19-Mar-2018 22:16:23

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504508/4-A

Matrix: Water | Lab File ID: P00826.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 22:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	212		2.0	0.77
100-52-7	Benzaldehyde	144		10	0.86
105-60-2	Caprolactam	43.9		10	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	100		26-139
321-60-8	2-Fluorobiphenyl	87		45-107
367-12-4	2-Fluorophenol (Surr)	43		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	93		51-108
4165-62-2	Phenol-d5 (Surr)	27		14-39
1718-51-0	Terphenyl-d14 (Surr)	109		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00826.D
Lims ID: LCS 460-504508/4-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Mar-2018 22:30:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-007
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: hamziy Date: 19-Mar-2018 22:51:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	2.948	2.938	0.010	93	69565	10.0	4.28	
5 Benzaldehyde	77	3.752	3.784	-0.035	95	276324	20.0	18.0	
$ 6 Phenol-d5	99	3.841	3.841	0.000	98	55326	10.0	2.70	
* 14 1,4-Dichlorobenzene-d4	152	4.173	4.170	0.003	98	89992	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.703	4.707	-0.004	90	169634	10.0	9.29	
* 38 Naphthalene-d8	136	5.392	5.394	-0.002	99	376487	8.00	8.00	
42 Caprolactam	113	5.769	5.778	-0.013	86	18890	20.0	5.49	a
$ 51 2-Fluorobiphenyl	172	6.429	6.432	-0.003	97	286828	10.0	8.71	
* 64 Acenaphthene-d10	164	7.064	7.065	-0.001	99	164328	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.811	7.816	-0.005	93	41991	10.0	10.0	
83 Atrazine	200	8.219	8.215	0.000	84	186231	20.0	26.5	Ea
* 87 Phenanthrene-d10	188	8.465	8.468	-0.003	99	312123	8.00	8.00	
$ 96 Terphenyl-d14	244	9.987	9.988	-0.001	99	376793	10.0	10.9	
* 102 Chrysene-d12	240	11.053	11.061	-0.008	98	276435	8.00	8.00	
* 109 Perylene-d12	264	12.862	12.866	-0.004	97	283184	8.00	8.00	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
a - User Assigned ID

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

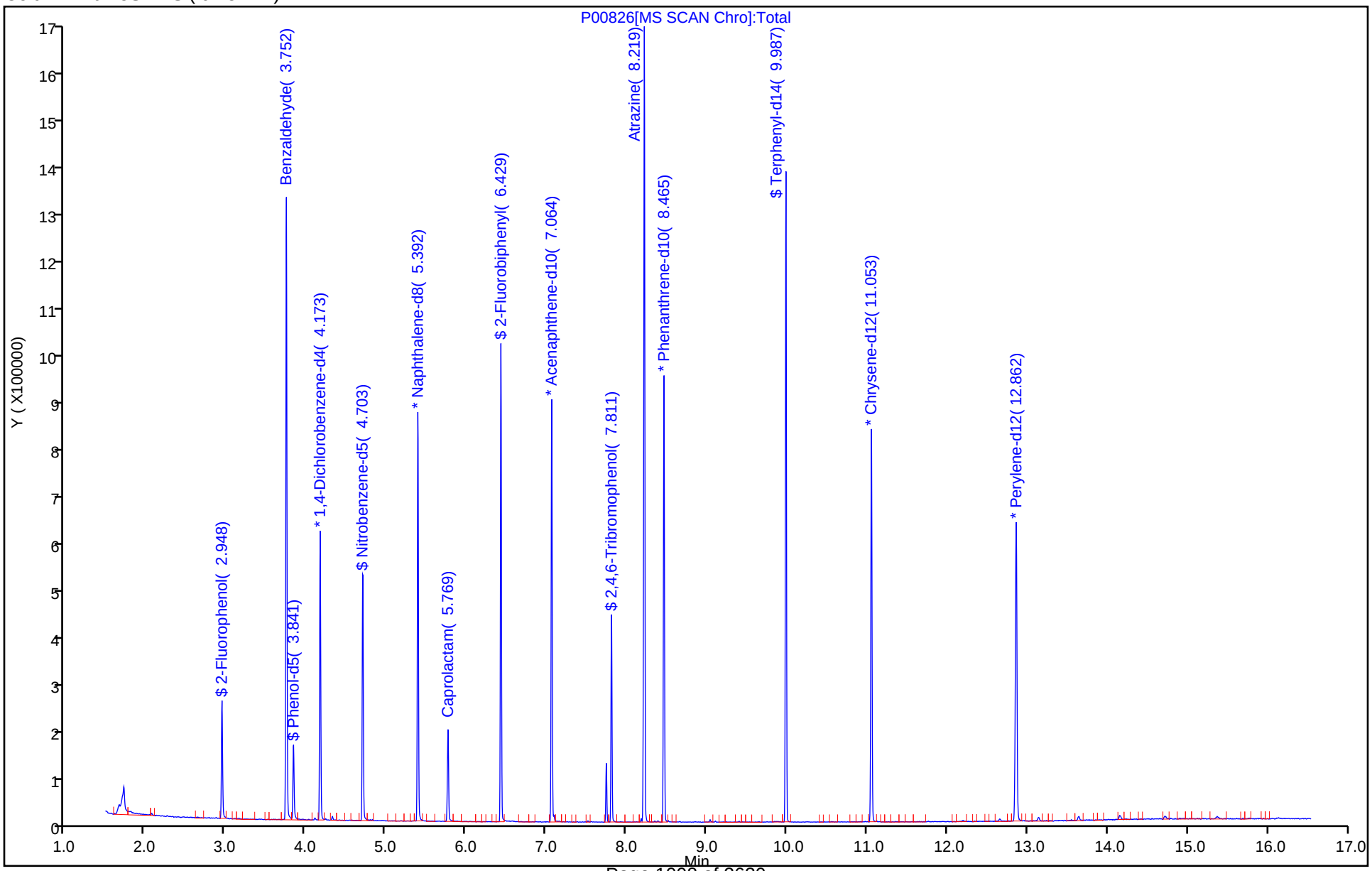
Report Date: 20-Mar-2018 11:37:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00826.D

Injection Date:	19-Mar-2018 22:30:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	LCS 460-504508/4-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

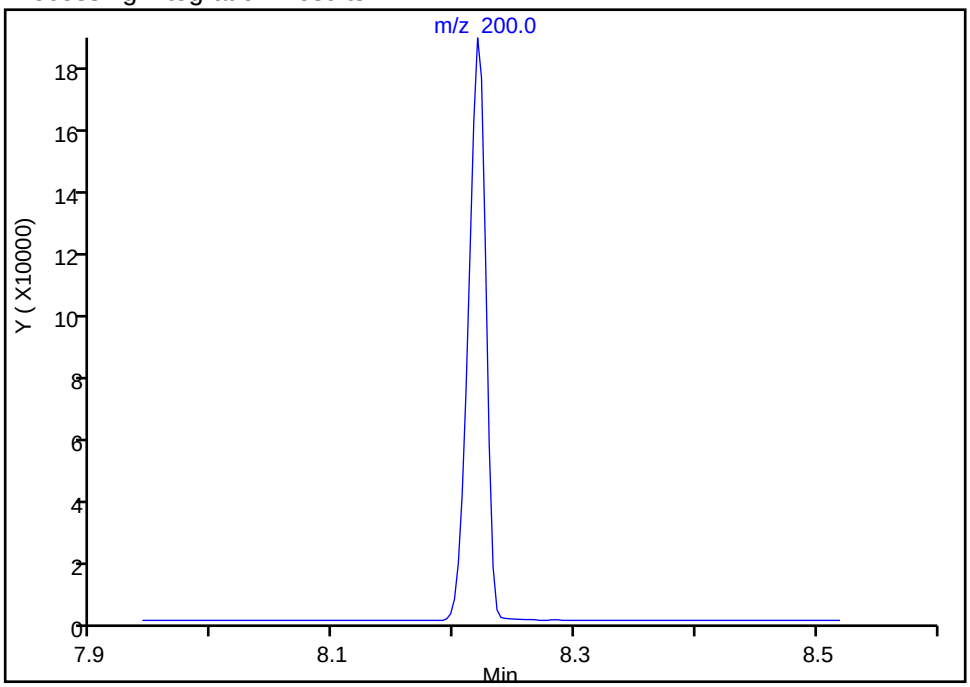
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00826.D				
Injection Date:	19-Mar-2018 22:30:30	Instrument ID:	CBNAMS18		
Lims ID:	LCS 460-504508/4-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

83 Atrazine, CAS: 1912-24-9

Signal: 1

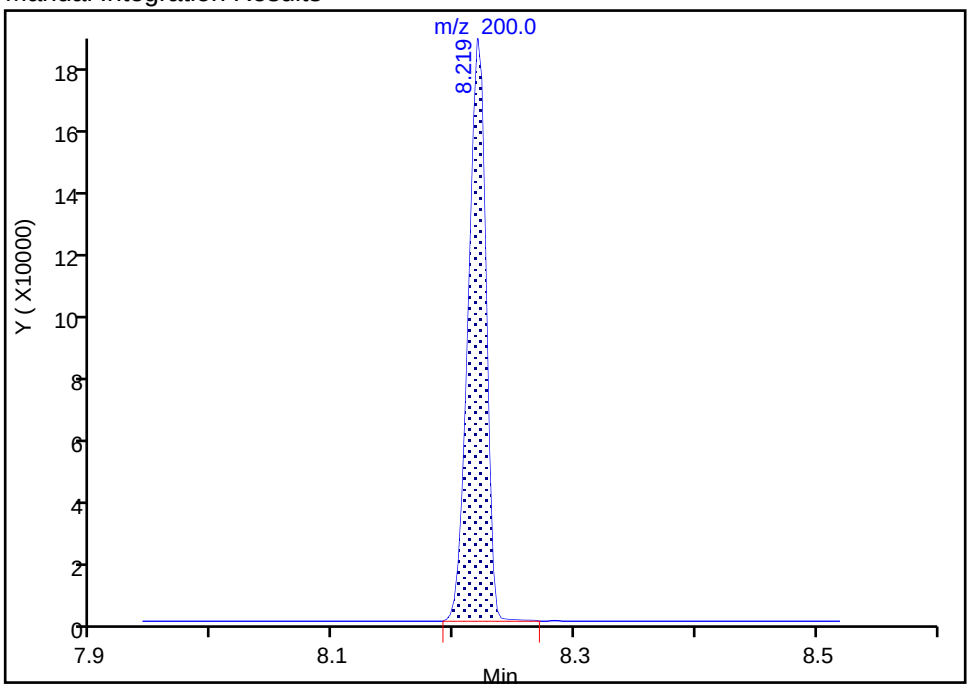
Not Detected
Expected RT: 8.22

Processing Integration Results



Manual Integration Results

RT: 8.22
Area: 186231
Amount: 26.483471
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 22:50:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

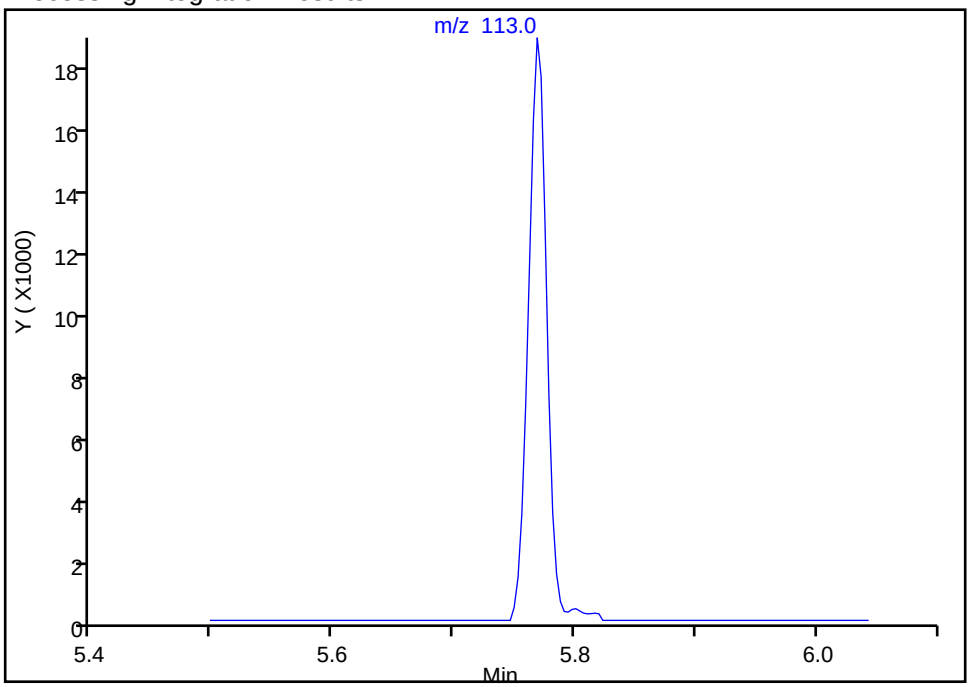
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00826.D				
Injection Date:	19-Mar-2018 22:30:30	Instrument ID:	CBNAMS18		
Lims ID:	LCS 460-504508/4-A				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

42 Caprolactam, CAS: 105-60-2

Signal: 1

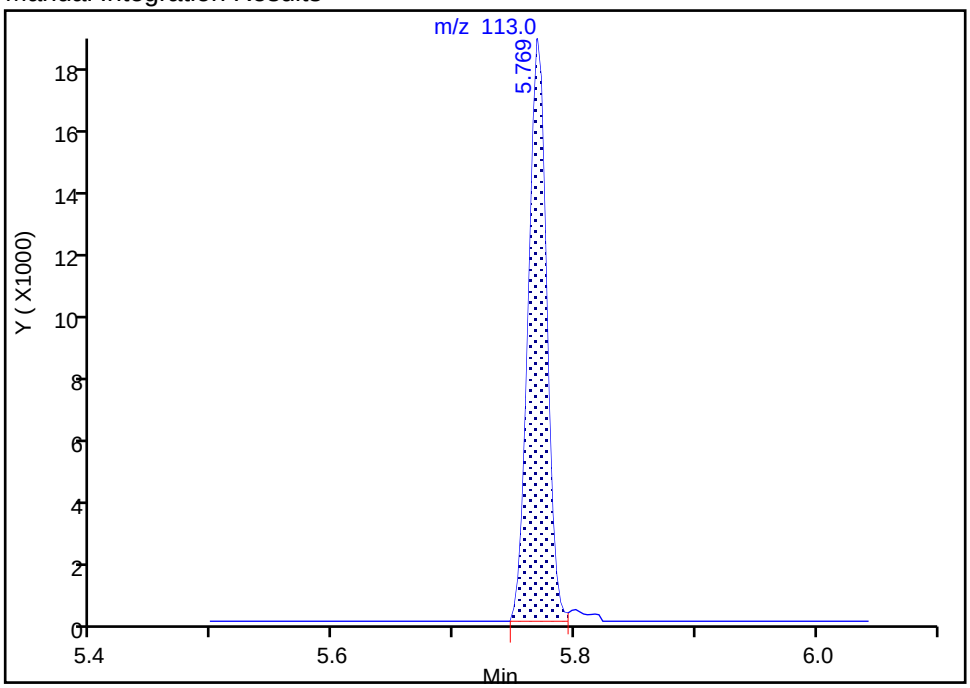
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.77
Area: 18890
Amount: 5.486917
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 22:50:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505109/2-A

Matrix: Solid | Lab File ID: L2077647.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:00

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3.11		0.33	0.0044
95-94-3	1,2,4,5-Tetrachlorobenzene	3.12		0.33	0.0043
123-91-1	1,4-Dioxane	2.12		0.33	0.0091
108-60-1	2,2'-oxybis[1-chloropropane]	2.97		0.33	0.0060
58-90-2	2,3,4,6-Tetrachlorophenol	3.32		0.33	0.022
95-95-4	2,4,5-Trichlorophenol	3.07		0.33	0.011
88-06-2	2,4,6-Trichlorophenol	3.37		0.13	0.017
120-83-2	2,4-Dichlorophenol	3.29		0.13	0.0070
105-67-9	2,4-Dimethylphenol	3.13		0.33	0.015
51-28-5	2,4-Dinitrophenol	7.32		0.27	0.16
121-14-2	2,4-Dinitrotoluene	3.62		0.067	0.017
606-20-2	2,6-Dinitrotoluene	3.50		0.067	0.011
91-58-7	2-Chloronaphthalene	3.07		0.33	0.015
95-57-8	2-Chlorophenol	3.09		0.33	0.0046
91-57-6	2-Methylnaphthalene	3.07		0.33	0.0041
95-48-7	2-Methylphenol	3.07		0.33	0.0053
88-74-4	2-Nitroaniline	3.25		0.33	0.012
88-75-5	2-Nitrophenol	3.40		0.33	0.011
15831-10-4	3 & 4 Methylphenol	3.09		0.33	0.0056
91-94-1	3,3'-Dichlorobenzidine	1.40		0.13	0.050
99-09-2	3-Nitroaniline	2.13		0.33	0.018
534-52-1	4,6-Dinitro-2-methylphenol	7.29		0.27	0.054
101-55-3	4-Bromophenyl phenyl ether	3.31		0.33	0.0043
59-50-7	4-Chloro-3-methylphenol	3.17		0.33	0.0055
106-47-8	4-Chloroaniline	1.41		0.33	0.023
7005-72-3	4-Chlorophenyl phenyl ether	3.16		0.33	0.0052
106-44-5	4-Methylphenol	3.09		0.33	0.0056
100-01-6	4-Nitroaniline	2.85		0.33	0.012
100-02-7	4-Nitrophenol	6.59		0.67	0.054
83-32-9	Acenaphthene	2.96		0.33	0.024
208-96-8	Acenaphthylene	3.01		0.33	0.0034
98-86-2	Acetophenone	2.97		0.33	0.0053
120-12-7	Anthracene	3.23		0.33	0.0037
56-55-3	Benzo[a]anthracene	3.13		0.033	0.012

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505109/2-A

Matrix: Solid | Lab File ID: L2077647.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:00

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	3.39		0.033	0.0088
205-99-2	Benzo[b]fluoranthene	3.39		0.033	0.0086
191-24-2	Benzo[g,h,i]perylene	3.26		0.33	0.0098
207-08-9	Benzo[k]fluoranthene	3.38		0.033	0.0065
111-91-1	Bis(2-chloroethoxy)methane	3.07		0.33	0.011
111-44-4	Bis(2-chloroethyl)ether	2.99		0.033	0.0040
117-81-7	Bis(2-ethylhexyl) phthalate	3.29		0.33	0.017
85-68-7	Butyl benzyl phthalate	3.50		0.33	0.016
86-74-8	Carbazole	3.05		0.33	0.0039
218-01-9	Chrysene	3.21		0.33	0.0056
53-70-3	Dibenz(a,h)anthracene	3.50		0.033	0.014
132-64-9	Dibenzofuran	3.08		0.33	0.0046
84-66-2	Diethyl phthalate	3.10		0.33	0.0048
131-11-3	Dimethyl phthalate	3.09		0.33	0.0040
84-74-2	Di-n-butyl phthalate	3.12		0.33	0.058
117-84-0	Di-n-octyl phthalate	3.47		0.33	0.018
206-44-0	Fluoranthene	3.08		0.33	0.0043
86-73-7	Fluorene	3.12		0.33	0.0045
118-74-1	Hexachlorobenzene	3.25		0.033	0.0048
87-68-3	Hexachlorobutadiene	3.13		0.067	0.0070
77-47-4	Hexachlorocyclopentadiene	3.00		0.33	0.029
67-72-1	Hexachloroethane	2.91		0.033	0.0051
193-39-5	Indeno[1,2,3-cd]pyrene	3.44		0.033	0.013
78-59-1	Isophorone	3.00		0.13	0.0087
91-20-3	Naphthalene	3.02		0.33	0.0057
98-95-3	Nitrobenzene	3.12		0.033	0.0079
621-64-7	N-Nitrosodi-n-propylamine	2.95		0.033	0.0053
86-30-6	N-Nitrosodiphenylamine	3.25		0.33	0.0063
87-86-5	Pentachlorophenol	7.41		0.27	0.068
85-01-8	Phenanthrene	3.15		0.33	0.0058
108-95-2	Phenol	3.15		0.33	0.0049
129-00-0	Pyrene	3.41		0.33	0.0082

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505109/2-A

Matrix: Solid | Lab File ID: L2077647.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:00

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	101		10-103
321-60-8	2-Fluorobiphenyl	88		38-95
367-12-4	2-Fluorophenol (Surr)	91		25-92
4165-60-0	Nitrobenzene-d5 (Surr)	87		37-94
4165-62-2	Phenol-d5 (Surr)	90		32-91
1718-51-0	Terphenyl-d14 (Surr)	91		24-109

Report Date: 22-Mar-2018 15:46:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d
Lims ID: LCS 460-505109/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 10:00:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-005
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:46:32 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:46:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.899	1.875	0.024	97	82541	50.0	31.8	
	2 N-Nitrosodimethylamine	74	2.134	2.116	0.018	76	187402	50.0	42.5	
	3 Pyridine	79	2.169	2.152	0.017	81	544022	100.0	72.2	
$	4 2-Fluorophenol	112	3.340	3.328	0.012	93	304374	50.0	45.4	
$	6 Phenol-d5	99	4.222	4.222	0.000	0	374273	50.0	44.8	
	7 Phenol	94	4.234	4.234	0.000	96	417449	50.0	47.3	
	8 Aniline	93	4.251	4.252	-0.001	96	418245	50.0	39.1	a
	9 Bis(2-chloroethyl)ether	93	4.310	4.310	0.000	93	296816	50.0	44.9	
	10 2-Chlorophenol	128	4.375	4.369	0.006	93	317265	50.0	46.4	
	11 n-Decane	43	4.422	4.416	0.006	94	391232	50.0	41.5	
	12 1,3-Dichlorobenzene	146	4.516	4.516	0.000	95	346507	50.0	44.2	
*	13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	97	198334	40.0	40.0	
	14 1,4-Dichlorobenzene	146	4.581	4.581	0.000	93	354207	50.0	44.8	
	15 Benzyl alcohol	108	4.693	4.693	0.000	92	211284	50.0	45.9	
	16 1,2-Dichlorobenzene	146	4.728	4.728	0.000	96	338772	50.0	45.1	
	17 2-Methylphenol	108	4.804	4.804	0.000	91	289342	50.0	46.1	
	18 2,2'-oxybis[1-chloropropan	45	4.822	4.822	0.000	91	560753	50.0	44.5	
	22 Acetophenone	105	4.945	4.946	-0.001	81	439351	50.0	44.5	
	19 4-Methylphenol	108	4.951	4.951	0.000	80	332918	50.0	46.3	
	20 3 & 4 Methylphenol	108	4.951	4.951	0.000	81	332918	50.0	46.3	
	21 N-Nitrosodi-n-propylamine	70	4.951	4.951	0.000	94	237033	50.0	44.3	
	25 Hexachloroethane	117	5.051	5.051	0.000	94	133173	50.0	43.6	
$	26 Nitrobenzene-d5	82	5.093	5.093	0.000	91	330937	50.0	43.6	
	27 Nitrobenzene	123	5.110	5.110	0.000	89	151536	50.0	46.8	
	28 n,n'-Dimethylaniline	120	5.116	5.116	0.000	93	474476	50.0	46.4	
	29 Isophorone	82	5.334	5.334	0.000	98	573993	50.0	45.0	
	30 2-Nitrophenol	139	5.410	5.410	0.000	86	165163	50.0	51.1	
	31 2,4-Dimethylphenol	122	5.457	5.457	0.000	90	279600	50.0	47.0	
	32 Bis(2-chloroethoxy)methane	93	5.540	5.540	0.000	94	375071	50.0	46.1	
	33 Benzoic acid	122	5.563	5.563	0.000	92	170733	50.0	50.7	
	34 2,4-Dichlorophenol	162	5.645	5.646	-0.001	95	275726	50.0	49.3	
	35 1,2,4-Trichlorobenzene	180	5.722	5.722	0.000	95	286057	50.0	45.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	790773	40.0	40.0	
37 Naphthalene	128	5.793	5.793	-0.001	99	891697	50.0	45.3	
38 4-Chloroaniline	127	5.845	5.846	-0.001	96	180076	50.0	21.1	
39 Hexachlorobutadiene	225	5.922	5.922	0.000	95	159120	50.0	47.0	
41 4-Chloro-3-methylphenol	107	6.310	6.310	0.000	97	267007	50.0	47.5	
42 2-Methylnaphthalene	142	6.451	6.451	0.000	84	611725	50.0	46.1	
43 1-Methylnaphthalene	142	6.545	6.545	0.000	93	584682	50.0	46.3	
44 Hexachlorocyclopentadiene	237	6.610	6.610	0.000	97	180785	50.0	45.0	
45 1,2,4,5-Tetrachlorobenzene	216	6.616	6.616	0.000	97	297612	50.0	46.8	
46 2-tertbutyl-4-methylphenol	149	6.645	6.645	0.000	90	407875	50.0	49.4	
48 2,4,6-Trichlorophenol	196	6.722	6.722	0.000	89	194996	50.0	50.5	
49 2,4,5-Trichlorophenol	196	6.757	6.757	0.000	97	210200	50.0	46.1	
$ 50 2-Fluorobiphenyl	172	6.804	6.804	0.000	97	646667	50.0	44.1	
51 1,1'-Biphenyl	154	6.898	6.898	0.000	97	740879	50.0	46.6	
52 2-Chloronaphthalene	162	6.916	6.916	0.000	98	576730	50.0	46.0	
53 Phenyl ether	170	6.998	6.998	0.000	92	388859	50.0	49.2	
54 2-Nitroaniline	65	7.010	7.010	0.000	97	226637	50.0	48.7	
55 1,3-Dimethylnaphthalene	156	7.122	7.122	0.000	91	478696	50.0	48.0	
58 Dimethyl phthalate	163	7.187	7.193	-0.005	98	662496	50.0	46.4	a
59 Coumarin	146	7.204	7.204	0.000	80	237113	50.0	47.8	
60 2,6-Dinitrotoluene	165	7.239	7.240	-0.001	93	146671	50.0	52.5	
61 Acenaphthylene	152	7.304	7.304	0.000	97	852339	50.0	45.2	
62 3-Nitroaniline	138	7.398	7.398	0.000	93	110546	50.0	32.0	
* 63 Acenaphthene-d10	164	7.439	7.440	-0.001	98	386174	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.469	7.469	0.000	98	520582	50.0	50.4	
65 Acenaphthene	154	7.469	7.475	-0.006	96	572659	50.0	44.4	
66 2,4-Dinitrophenol	184	7.498	7.498	0.000	61	178841	100.0	109.9	a
67 4-Nitrophenol	65	7.569	7.569	0.000	92	278481	100.0	98.9	
68 2,4-Dinitrotoluene	165	7.622	7.622	0.000	94	200905	50.0	54.3	
69 Dibenzofuran	168	7.634	7.634	0.000	96	814018	50.0	46.2	
70 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	0.000	94	169100	50.0	49.8	
71 Diethyl phthalate	149	7.857	7.857	0.000	98	674692	50.0	46.5	
74 Fluorene	166	7.957	7.957	0.000	94	666943	50.0	46.8	
73 4-Chlorophenyl phenyl ethe	204	7.957	7.957	0.000	76	310921	50.0	47.4	
75 4-Nitroaniline	138	7.981	7.981	0.000	93	156357	50.0	42.7	
76 4,6-Dinitro-2-methylphenol	198	8.010	8.016	-0.006	81	207151	100.0	109.4	
77 N-Nitrosodiphenylamine	169	8.069	8.075	-0.006	99	470576	50.0	48.7	
78 1,2-Diphenylhydrazine	77	8.110	8.110	0.000	100	674773	50.0	46.6	
$ 79 2,4,6-Tribromophenol	330	8.186	8.187	-0.001	95	103643	50.0	50.3	
80 4-Bromophenyl phenyl ether	248	8.422	8.422	0.000	89	191713	50.0	49.6	
81 Hexachlorobenzene	284	8.486	8.487	-0.001	98	209699	50.0	48.8	
83 Pentachlorophenol	266	8.669	8.675	-0.006	95	257308	100.0	111.1	
84 Pentachloronitrobenzene	237	8.686	8.687	-0.001	88	91846	50.0	53.5	
72 n-Octadecane	57	8.757	8.757	0.000	94	540986	50.0	47.8	
* 85 Phenanthrene-d10	188	8.845	8.845	0.000	99	709418	40.0	40.0	
86 Phenanthrene	178	8.863	8.869	-0.006	98	958903	50.0	47.2	
87 Anthracene	178	8.910	8.916	-0.006	98	1018283	50.0	48.4	
88 Carbazole	167	9.063	9.069	-0.006	96	876640	50.0	45.8	
89 Di-n-butyl phthalate	149	9.404	9.404	0.000	99	1096039	50.0	46.8	a
90 Fluoranthene	202	9.986	9.992	-0.006	97	991354	50.0	46.2	
91 Benzidine	184	10.116	10.116	0.000	99	341982	50.0	26.4	a
92 Pyrene	202	10.204	10.204	0.000	97	1014676	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Bisphenol-A	213	10.257	10.257	0.000	98	230108	25.0	30.6	
$ 94 Terphenyl-d14	244	10.363	10.363	0.000	99	630231	50.0	45.3	
95 Butyl benzyl phthalate	149	10.880	10.881	0.000	97	456805	50.0	52.5	
97 Carbamazepine	193	10.992	10.992	0.000	93	404142	50.0	53.7	
98 3,3'-Dichlorobenzidine	252	11.474	11.480	-0.006	99	145854	50.0	21.0	
99 Benzo[a]anthracene	228	11.498	11.498	0.000	100	878862	50.0	46.9	
* 100 Chrysene-d12	240	11.510	11.516	-0.006	99	603346	40.0	40.0	
101 Chrysene	228	11.545	11.545	0.000	98	818402	50.0	48.1	
102 Bis(2-ethylhexyl) phthalat	149	11.569	11.569	0.000	87	628106	50.0	49.4	
103 Di-n-octyl phthalate	149	12.439	12.445	-0.006	97	1078988	50.0	52.1	
104 Benzo[b]fluoranthene	252	12.933	12.933	0.000	98	843434	50.0	50.9	
105 Benzo[k]fluoranthene	252	12.974	12.974	0.000	99	865745	50.0	50.7	
106 Benzo[a]pyrene	252	13.398	13.398	0.000	96	800901	50.0	50.9	
* 107 Perylene-d12	264	13.480	13.486	-0.006	97	598178	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.133	15.133	-0.006	98	748050	50.0	51.5	M
109 Dibenz(a,h)anthracene	278	15.180	15.179	-0.006	97	757336	50.0	52.4	
110 Benzo[g,h,i]perylene	276	15.610	15.615	-0.005	96	780773	50.0	48.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 15:46:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d

Injection Date: 22-Mar-2018 10:00:30 Instrument ID: CBNAMS12 Operator ID:

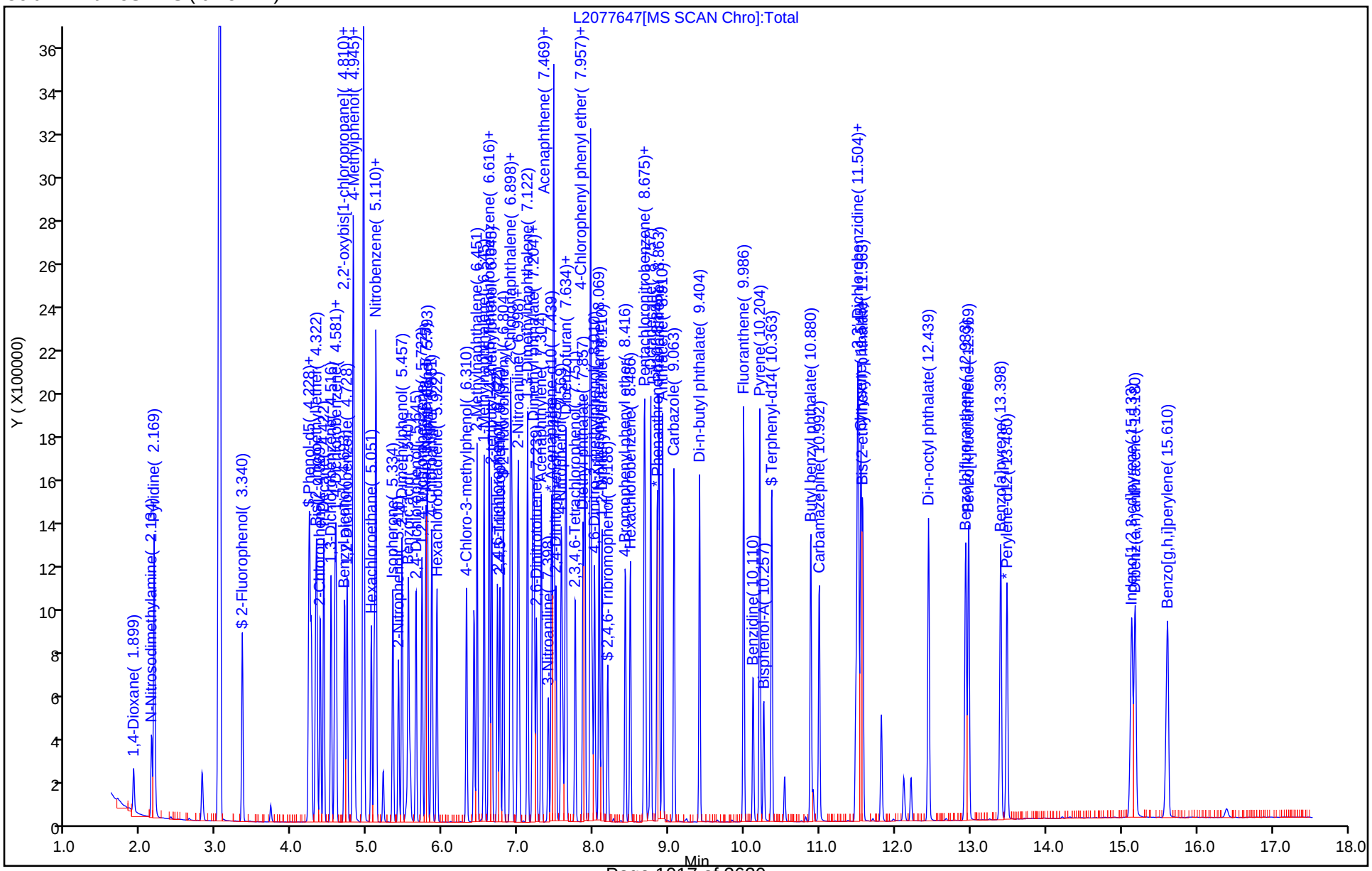
Lims ID: LCS 460-505109/2-A Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

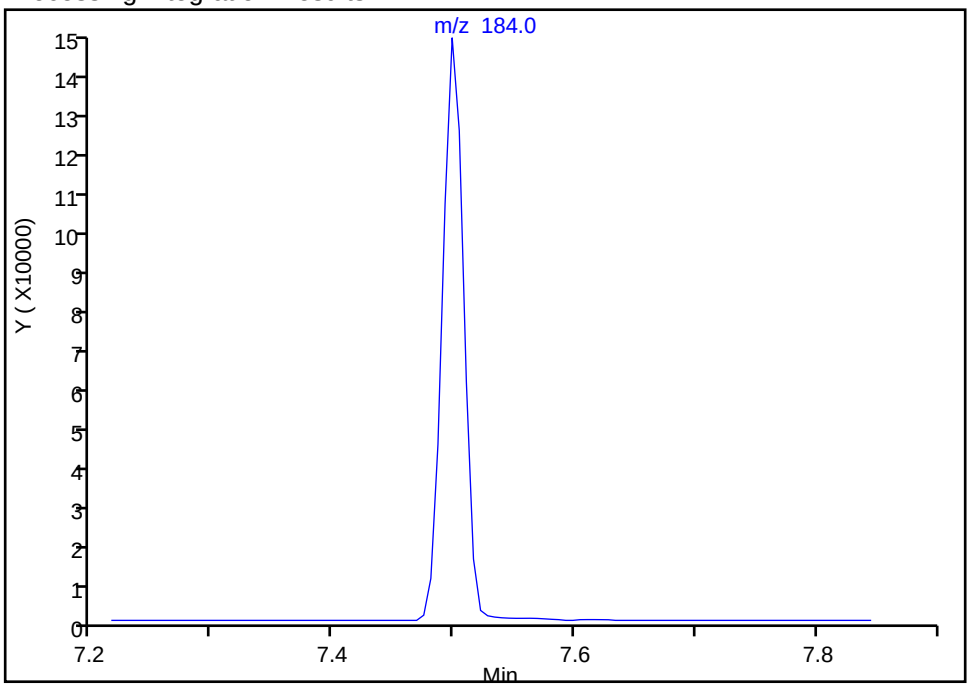
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d				
Injection Date:	22-Mar-2018 10:00:30	Instrument ID:	CBNAMS12		
Lims ID:	LCS 460-505109/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

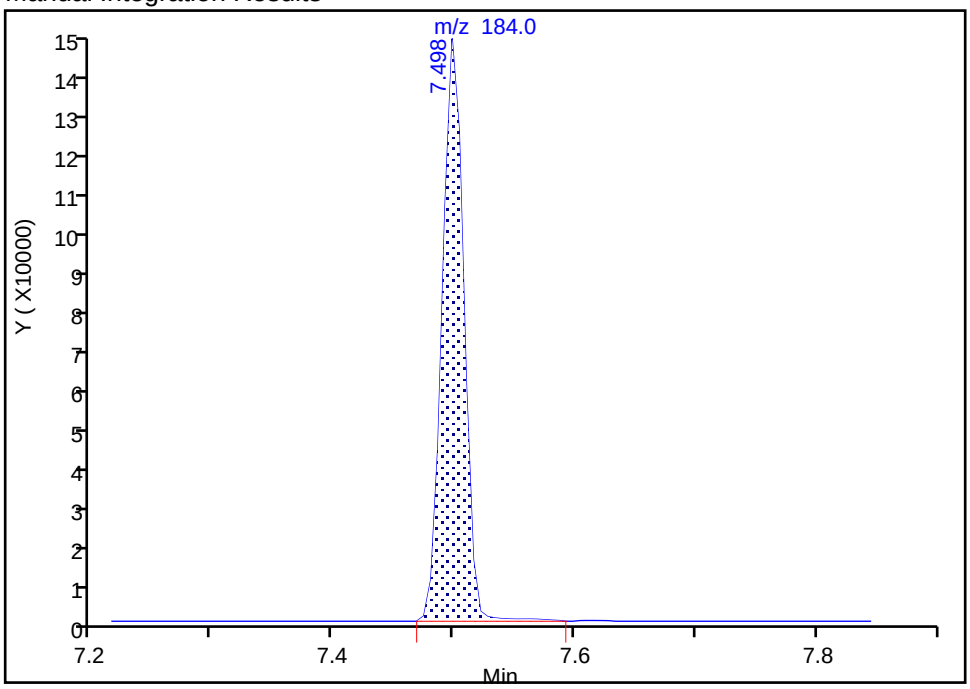
Processing Integration Results

Not Detected
Expected RT: 7.50



Manual Integration Results

RT: 7.50
Area: 178841
Amount: 109.8687
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 10:19:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

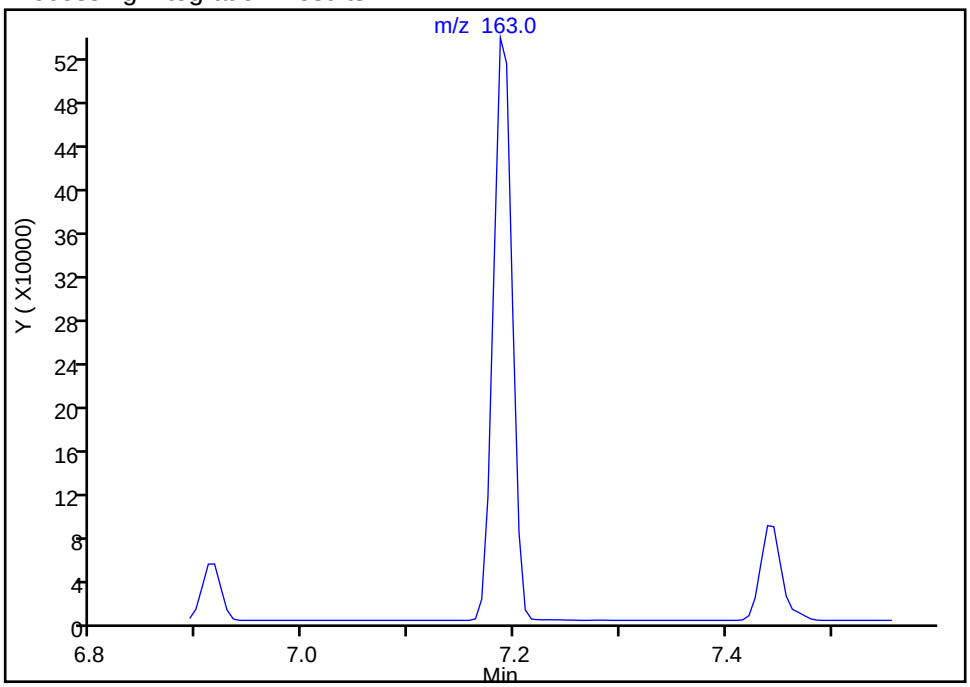
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d				
Injection Date:	22-Mar-2018 10:00:30	Instrument ID:	CBNAMS12		
Lims ID:	LCS 460-505109/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

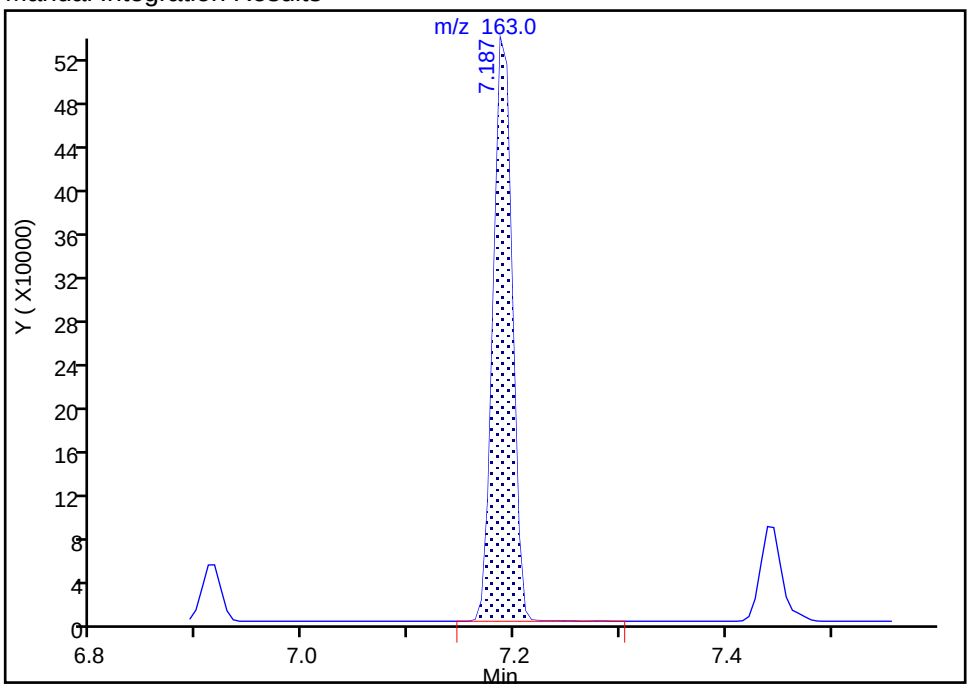
Not Detected
Expected RT: 7.19

Processing Integration Results



Manual Integration Results

RT: 7.19
Area: 662496
Amount: 46.410043
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 10:19:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

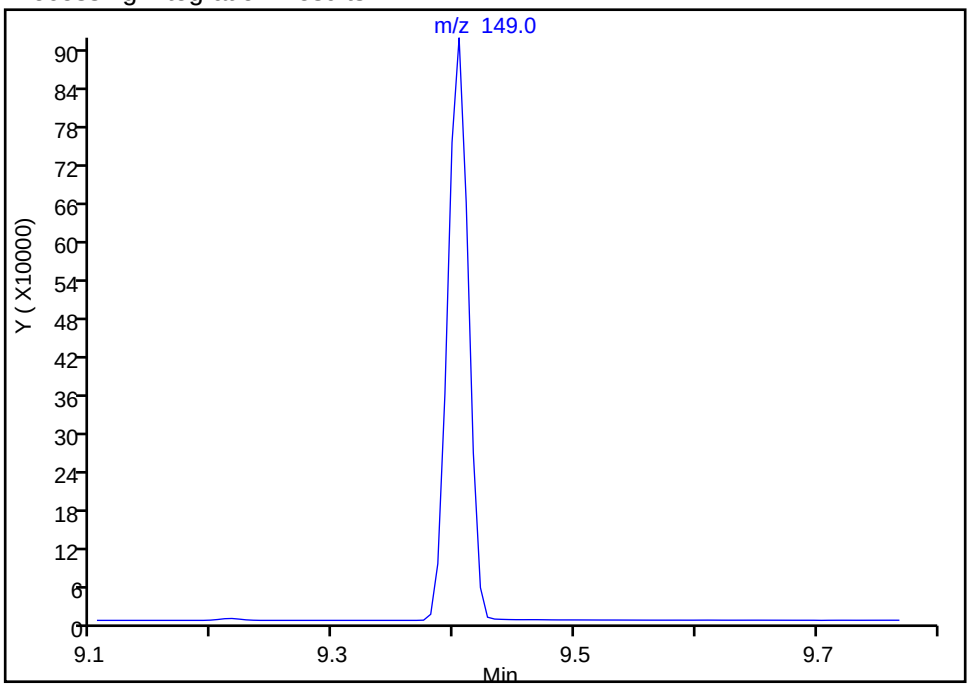
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d				
Injection Date:	22-Mar-2018 10:00:30	Instrument ID:	CBNAMS12		
Lims ID:	LCS 460-505109/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

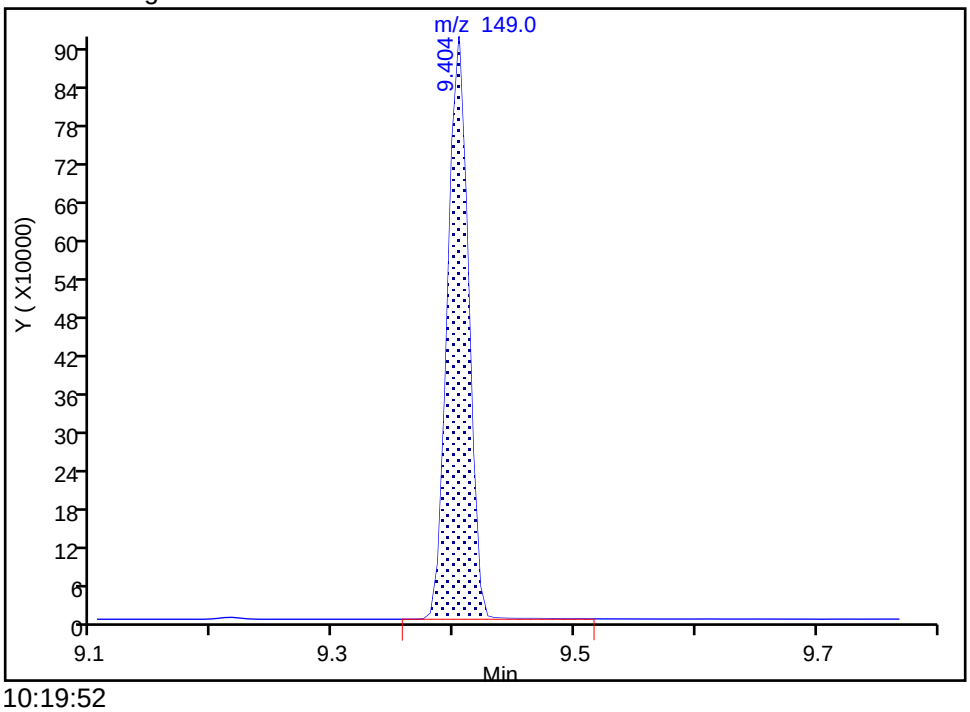
Processing Integration Results

Not Detected
Expected RT: 9.40



Manual Integration Results

RT: 9.40
Area: 1096039
Amount: 46.784266
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 10:19:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

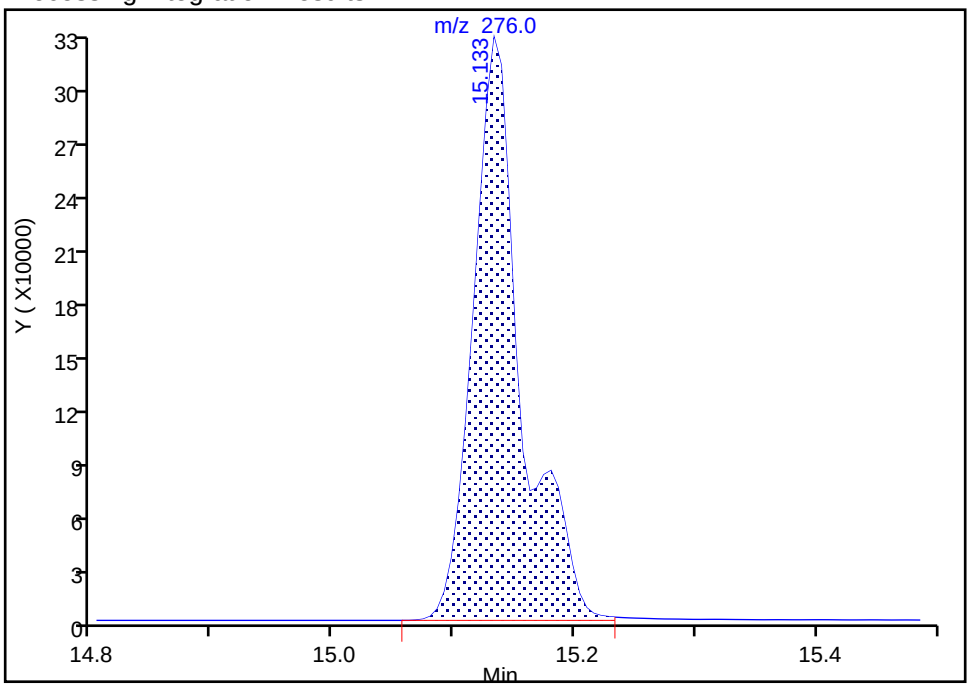
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077647.d				
Injection Date:	22-Mar-2018 10:00:30	Instrument ID:	CBNAMS12		
Lims ID:	LCS 460-505109/2-A				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

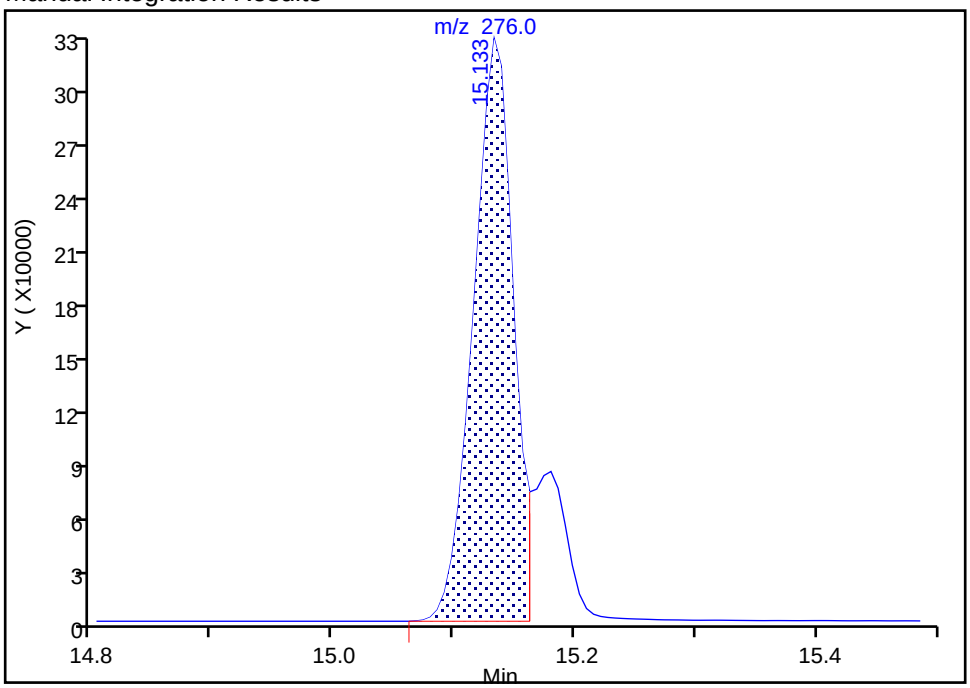
Processing Integration Results

RT: 15.13
Area: 899956
Amount: 62.016892
Amount Units: ug/ml



Manual Integration Results

RT: 15.13
Area: 748050
Amount: 51.548894
Amount Units: ug/ml



Reviewer: asfawa, 22-Mar-2018 15:46:12

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-505109/3-A

Matrix: Solid | Lab File ID: L2077648.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0000(g) | Date Analyzed: 03/22/2018 10:22

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

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

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

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	7.34		0.13	0.0083
100-52-7	Benzaldehyde	6.27		0.33	0.014
105-60-2	Caprolactam	7.53		0.33	0.020

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	102		10-103
321-60-8	2-Fluorobiphenyl	89		38-95
367-12-4	2-Fluorophenol (Surr)	94	X	25-92
4165-60-0	Nitrobenzene-d5 (Surr)	90		37-94
4165-62-2	Phenol-d5 (Surr)	92	X	32-91
1718-51-0	Terphenyl-d14 (Surr)	94		24-109

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077648.d
Lims ID: LCS 460-505109/3-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 10:22:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-006
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:47:04 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:47:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.340	3.328	0.012	92	282807	50.0	47.1	
5 Benzaldehyde	77	4.151	4.152	-0.001	93	516711	100.0	94.1	
$ 6 Phenol-d5	99	4.216	4.222	-0.006	0	344419	50.0	46.0	
* 13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	98	177794	40.0	40.0	
$ 26 Nitrobenzene-d5	82	5.087	5.093	-0.006	93	307566	50.0	45.0	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	710629	40.0	40.0	
40 Caprolactam	113	6.163	6.151	0.012	86	170620	100.0	112.9	
$ 50 2-Fluorobiphenyl	172	6.798	6.804	-0.006	97	601870	50.0	44.4	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	99	357584	40.0	40.0	
$ 79 2,4,6-Tribromophenol	330	8.181	8.187	-0.006	95	97698	50.0	51.2	
82 Atrazine	200	8.581	8.581	0.000	89	372350	100.0	110.0	
* 85 Phenanthrene-d10	188	8.839	8.845	-0.006	99	677990	40.0	40.0	
$ 94 Terphenyl-d14	244	10.363	10.363	0.000	99	640050	50.0	46.9	
* 100 Chrysene-d12	240	11.504	11.516	-0.012	99	591565	40.0	40.0	
* 107 Perylene-d12	264	13.474	13.486	-0.012	97	596386	40.0	40.0	

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

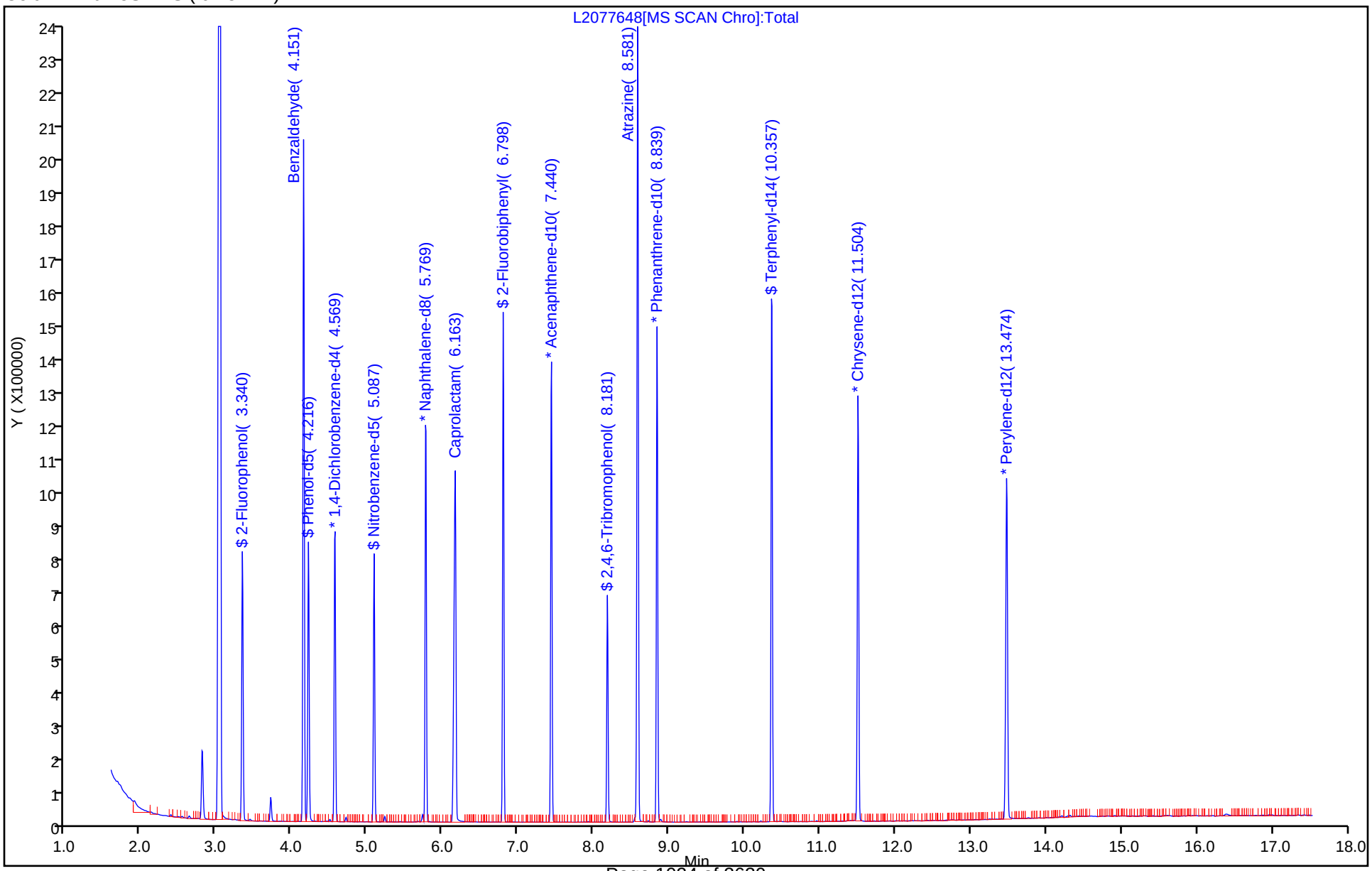
Report Date: 22-Mar-2018 15:47:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077648.d

Injection Date:	22-Mar-2018 10:22:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	LCS 460-505109/3-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504508/3-A

Matrix: Water | Lab File ID: P00825.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 22:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	65.5		10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	63.1		10	0.43
123-91-1	1,4-Dioxane	28.7		10	3.1
108-60-1	2,2'-oxybis[1-chloropropane]	63.5		10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	87.9		10	0.69
95-95-4	2,4,5-Trichlorophenol	79.0		10	0.49
88-06-2	2,4,6-Trichlorophenol	76.0		10	0.53
120-83-2	2,4-Dichlorophenol	69.9		10	0.63
105-67-9	2,4-Dimethylphenol	65.3		10	0.91
51-28-5	2,4-Dinitrophenol	175		20	2.4
121-14-2	2,4-Dinitrotoluene	92.3		2.0	1.0
606-20-2	2,6-Dinitrotoluene	83.9		2.0	0.88
91-58-7	2-Chloronaphthalene	65.1		10	0.61
95-57-8	2-Chlorophenol	56.8		10	0.74
91-57-6	2-Methylnaphthalene	65.8		10	0.88
95-48-7	2-Methylphenol	48.0		10	1.3
88-74-4	2-Nitroaniline	75.5		10	0.65
88-75-5	2-Nitrophenol	73.5		10	0.59
15831-10-4	3 & 4 Methylphenol	41.2		10	0.88
91-94-1	3,3'-Dichlorobenzidine	80.7		10	1.0
99-09-2	3-Nitroaniline	62.9		10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	191		20	2.0
101-55-3	4-Bromophenyl phenyl ether	74.6		10	1.0
59-50-7	4-Chloro-3-methylphenol	70.1		10	0.76
106-47-8	4-Chloroaniline	59.3		10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	77.6		10	0.96
106-44-5	4-Methylphenol	41.4		10	0.87
100-01-6	4-Nitroaniline	75.6		10	0.48
100-02-7	4-Nitrophenol	48.4		20	4.7
83-32-9	Acenaphthene	68.7		10	0.88
208-96-8	Acenaphthylene	68.7		10	0.65
98-86-2	Acetophenone	70.9		10	1.0
120-12-7	Anthracene	78.0		10	0.57
56-55-3	Benzo[a]anthracene	83.4		1.0	0.55

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504508/3-A

Matrix: Water | Lab File ID: P00825.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 22:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	87.7		1.0	0.16
205-99-2	Benzo[b]fluoranthene	87.5		2.0	0.44
191-24-2	Benzo[g,h,i]perylene	79.4		10	0.75
207-08-9	Benzo[k]fluoranthene	87.4		1.0	0.18
111-91-1	Bis(2-chloroethoxy)methane	72.4		10	0.69
111-44-4	Bis(2-chloroethyl)ether	67.4		1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	102		2.0	0.72
85-68-7	Butyl benzyl phthalate	93.6		10	0.60
86-74-8	Carbazole	84.0		10	0.85
218-01-9	Chrysene	82.8		2.0	0.67
53-70-3	Dibenz(a,h)anthracene	86.1		1.0	0.090
132-64-9	Dibenzofuran	71.9		10	0.85
84-66-2	Diethyl phthalate	91.9		10	1.0
131-11-3	Dimethyl phthalate	85.5		10	0.98
84-74-2	Di-n-butyl phthalate	93.3		10	0.82
117-84-0	Di-n-octyl phthalate	104		10	0.69
206-44-0	Fluoranthene	87.5		10	0.72
86-73-7	Fluorene	76.9		10	0.80
118-74-1	Hexachlorobenzene	73.6		1.0	0.47
87-68-3	Hexachlorobutadiene	51.3		1.0	0.76
77-47-4	Hexachlorocyclopentadiene	60.1		10	0.61
67-72-1	Hexachloroethane	41.3		2.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	85.2		2.0	0.21
78-59-1	Isophorone	77.8		10	0.67
91-20-3	Naphthalene	60.7		10	0.80
98-95-3	Nitrobenzene	70.8		1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	74.8		1.0	0.83
86-30-6	N-Nitrosodiphenylamine	74.4		10	0.74
87-86-5	Pentachlorophenol	160		20	2.2
85-01-8	Phenanthrene	76.8		10	0.65
108-95-2	Phenol	21.5		10	0.41
129-00-0	Pyrene	79.7		10	0.83

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504508/3-A

Matrix: Water | Lab File ID: P00825.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 22:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	108		26-139
321-60-8	2-Fluorobiphenyl	87		45-107
367-12-4	2-Fluorophenol (Surr)	38		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	90		51-108
4165-62-2	Phenol-d5 (Surr)	25		14-39
1718-51-0	Terphenyl-d14 (Surr)	103		40-148

Report Date: 20-Mar-2018 11:37:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00825.D
Lims ID: LCSD 460-504508/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 19-Mar-2018 22:09:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-006
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: eisam Date: 20-Mar-2018 00:16:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.633	1.620	0.013	98	26447	10.0	3.59	
	2 N-Nitrosodimethylamine	74	1.837	1.828	0.009	87	44887	10.0	3.79	
	3 Pyridine	79	1.869	1.856	0.013	85	92805	20.0	4.53	
$	4 2-Fluorophenol	112	2.945	2.938	0.007	92	66823	10.0	3.83	
$	6 Phenol-d5	99	3.842	3.841	0.001	98	54052	10.0	2.45	
	7 Phenol	94	3.854	3.851	0.003	98	67250	10.0	2.69	
	8 Aniline	93	3.857	3.854	0.003	99	151602	10.0	5.34	
	9 Bis(2-chloroethyl)ether	93	3.915	3.915	0.000	91	149242	10.0	8.42	
	10 Benzonitrile	103	3.931	3.928	0.003	99	304218	NC	NC	
	11 2-Chlorophenol	128	3.979	3.975	0.004	93	126075	10.0	7.10	
	12 n-Decane	43	4.027	4.023	0.004	93	106406	10.0	4.05	
	13 1,3-Dichlorobenzene	146	4.119	4.119	0.000	94	109584	10.0	5.63	
*	14 1,4-Dichlorobenzene-d4	152	4.174	4.170	0.004	98	96701	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.190	4.186	0.004	94	116295	10.0	5.95	
	16 Benzyl alcohol	108	4.311	4.308	0.003	92	70339	10.0	6.35	
	17 1,2-Dichlorobenzene	146	4.337	4.336	0.001	95	115084	10.0	6.23	
	18 2-Methylphenol	108	4.432	4.432	0.000	86	94121	10.0	6.00	
	19 2,2'-oxybis[1-chloropropan	45	4.439	4.439	0.000	91	261120	10.0	7.94	
	20 N-Methylaniline	106	4.554	4.554	0.000	93	196351	10.0	7.47	
	21 Acetophenone	105	4.560	4.560	0.000	92	210793	10.0	8.86	
	22 N-Nitrosodi-n-propylamine	70	4.563	4.563	0.000	90	124985	10.0	9.35	
	23 3 & 4 Methylphenol	108	4.582	4.582	0.000	63	86462	10.0	5.15	
	24 4-Methylphenol	108	4.582	4.582	0.000	95	85313	10.0	5.18	
	25 Hexachloroethane	117	4.662	4.659	0.003	93	38537	10.0	5.16	
$	27 Nitrobenzene-d5	82	4.707	4.707	0.000	90	171004	10.0	8.97	
	28 Nitrobenzene	123	4.726	4.723	0.003	93	69773	10.0	8.85	
	29 n,n'-Dimethylaniline	120	4.729	4.729	0.000	93	206045	10.0	7.86	
	30 Isophorone	82	4.953	4.953	0.000	99	306734	10.0	9.72	
	32 2-Nitrophenol	139	5.033	5.033	0.000	89	76367	10.0	9.18	
	33 2,4-Dimethylphenol	122	5.090	5.090	0.000	90	120831	10.0	8.16	
	34 Bis(2-chloroethoxy)methane	93	5.167	5.167	0.000	95	184450	10.0	9.05	
	35 Benzoic acid	122	5.167	5.199	-0.032	30	20765	10.0	3.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.272	5.272	0.000	94	109147	10.0	8.74	
37 1,2,4-Trichlorobenzene	180	5.343	5.342	0.001	95	102492	10.0	7.21	
* 38 Naphthalene-d8	136	5.394	5.394	0.000	99	392941	8.00	8.00	
39 Naphthalene	128	5.413	5.416	-0.003	99	380324	10.0	7.58	
40 4-Chloroaniline	127	5.474	5.473	0.001	96	146867	10.0	7.41	
41 Hexachlorobutadiene	225	5.544	5.544	0.000	93	47247	10.0	6.41	
43 4-Chloro-3-methylphenol	107	5.956	5.956	0.000	98	113584	10.0	8.76	
44 2-Methylnaphthalene	142	6.077	6.077	0.000	84	260951	10.0	8.23	
45 1-Methylnaphthalene	142	6.170	6.170	0.000	92	248335	10.0	8.34	
46 Hexachlorocyclopentadiene	237	6.237	6.237	0.000	96	60139	10.0	7.51	
47 1,2,4,5-Tetrachlorobenzene	216	6.240	6.240	0.000	96	105297	10.0	7.89	
48 2-tertbutyl-4-methylphenol	149	6.288	6.288	0.000	89	198099	10.0	10.9	
49 2,4,6-Trichlorophenol	196	6.355	6.355	0.000	87	79092	10.0	9.49	
50 2,4,5-Trichlorophenol	196	6.393	6.393	0.000	94	86352	10.0	9.87	
$ 51 2-Fluorobiphenyl	172	6.432	6.432	0.000	97	294405	10.0	8.73	
52 1,1'-Biphenyl	154	6.525	6.524	0.001	97	313753	10.0	8.19	
53 2-Chloronaphthalene	162	6.537	6.541	-0.003	97	234537	10.0	8.13	
54 Phenyl ether	170	6.624	6.627	-0.003	86	161874	10.0	8.89	
55 2-Nitroaniline	65	6.643	6.643	0.000	97	107908	10.0	9.43	
57 1,3-Dimethylnaphthalene	156	6.748	6.748	0.000	90	208461	10.0	8.94	
59 Dimethyl phthalate	163	6.822	6.825	-0.003	97	315972	10.0	10.7	
60 Coumarin	146	6.831	6.835	-0.004	79	111579	10.0	12.0	
61 2,6-Dinitrotoluene	165	6.873	6.873	0.000	92	66428	10.0	10.5	
62 Acenaphthylene	152	6.930	6.930	0.000	97	369783	10.0	8.59	
63 3-Nitroaniline	138	7.033	7.036	-0.003	92	63124	10.0	7.87	
* 64 Acenaphthene-d10	164	7.065	7.065	0.000	99	168211	8.00	8.00	
66 Acenaphthene	154	7.097	7.097	0.000	97	225847	10.0	8.59	
65 3,5-di-tert-butyl-4-hydrox	205	7.100	7.100	0.000	98	215790	10.0	10.1	
67 2,4-Dinitrophenol	184	7.132	7.132	0.000	91	90052	20.0	21.9	
68 4-Nitrophenol	65	7.221	7.225	-0.004	94	35859	20.0	6.05	M
69 2,4-Dinitrotoluene	165	7.253	7.253	0.000	92	95927	10.0	11.5	
70 Dibenzofuran	168	7.260	7.263	-0.003	95	343884	10.0	8.99	
72 2,3,4,6-Tetrachlorophenol	232	7.384	7.388	-0.004	91	71382	10.0	11.0	
73 Diethyl phthalate	149	7.493	7.496	-0.003	97	339384	10.0	11.5	
75 Fluorene	166	7.583	7.586	-0.003	94	284567	10.0	9.62	
74 4-Chlorophenyl phenyl ethe	204	7.589	7.589	0.000	84	126616	10.0	9.70	
76 4-Nitroaniline	138	7.611	7.615	-0.004	93	73582	10.0	9.45	
77 4,6-Dinitro-2-methylphenol	198	7.640	7.643	-0.003	80	104581	20.0	23.8	
78 N-Nitrosodiphenylamine	169	7.704	7.704	0.000	99	215291	10.0	9.30	
79 1,2-Diphenylhydrazine	77	7.736	7.739	-0.003	99	329237	10.0	8.76	
$ 80 2,4,6-Tribromophenol	330	7.813	7.816	-0.003	93	46175	10.0	10.8	
81 4-Bromophenyl phenyl ether	248	8.049	8.049	0.000	84	81034	10.0	9.32	
82 Hexachlorobenzene	284	8.110	8.110	0.000	99	84323	10.0	9.20	
84 Pentachlorophenol	266	8.302	8.302	0.000	90	103951	20.0	20.0	
85 Pentachloronitrobenzene	237	8.311	8.311	0.000	86	42876	10.0	11.0	
86 n-Octadecane	57	8.394	8.394	0.000	91	259414	10.0	9.20	
* 87 Phenanthrene-d10	188	8.465	8.468	-0.003	99	319904	8.00	8.00	
88 Phenanthrene	178	8.487	8.490	-0.003	99	441852	10.0	9.60	
89 Anthracene	178	8.535	8.538	-0.003	98	457532	10.0	9.75	
90 Carbazole	167	8.698	8.698	0.000	96	433443	10.0	10.5	
91 Di-n-butyl phthalate	149	9.043	9.043	0.000	99	561206	10.0	11.7	
92 Fluoranthene	202	9.614	9.617	-0.003	97	481804	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Benzidine	184	9.748	9.751	-0.003	99	81461	10.0	3.81	
94 Pyrene	202	9.825	9.828	-0.003	96	489269	10.0	9.96	
95 Bisphenol-A	213	9.895	9.898	-0.003	97	95121	5.00	5.23	
$ 96 Terphenyl-d14	244	9.988	9.988	0.000	99	354352	10.0	10.3	
97 Butyl benzyl phthalate	149	10.480	10.483	-0.003	97	241470	10.0	11.7	
99 Carbamazepine	193	10.579	10.582	-0.003	92	210468	10.0	11.4	
100 3,3'-Dichlorobenzidine	252	11.032	11.035	-0.003	99	151537	10.0	10.1	
101 Benzo[a]anthracene	228	11.048	11.048	0.000	100	424554	10.0	10.4	
* 102 Chrysene-d12	240	11.058	11.061	-0.003	99	275436	8.00	8.00	
104 Chrysene	228	11.087	11.090	-0.003	98	409558	10.0	10.3	
103 Bis(2-ethylhexyl) phthalat	149	11.122	11.125	-0.003	87	331140	10.0	12.8	
105 Di-n-octyl phthalate	149	11.914	11.917	-0.003	97	553335	10.0	12.9	
106 Benzo[b]fluoranthene	252	12.355	12.358	-0.003	97	415914	10.0	10.9	
107 Benzo[k]fluoranthene	252	12.393	12.396	-0.003	98	432497	10.0	10.9	
108 Benzo[a]pyrene	252	12.786	12.789	-0.003	95	402528	10.0	11.0	
* 109 Perylene-d12	264	12.866	12.866	0.000	97	268857	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.344	14.345	-0.001	97	356341	10.0	10.7	M
111 Dibenz(a,h)anthracene	278	14.383	14.386	-0.003	96	370705	10.0	10.8	
112 Benzo[g,h,i]perylene	276	14.738	14.741	-0.003	94	374775	10.0	9.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 20-Mar-2018 11:37:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00825.D

Injection Date: 19-Mar-2018 22:09:30 Instrument ID: CBNAMS18 Operator ID:

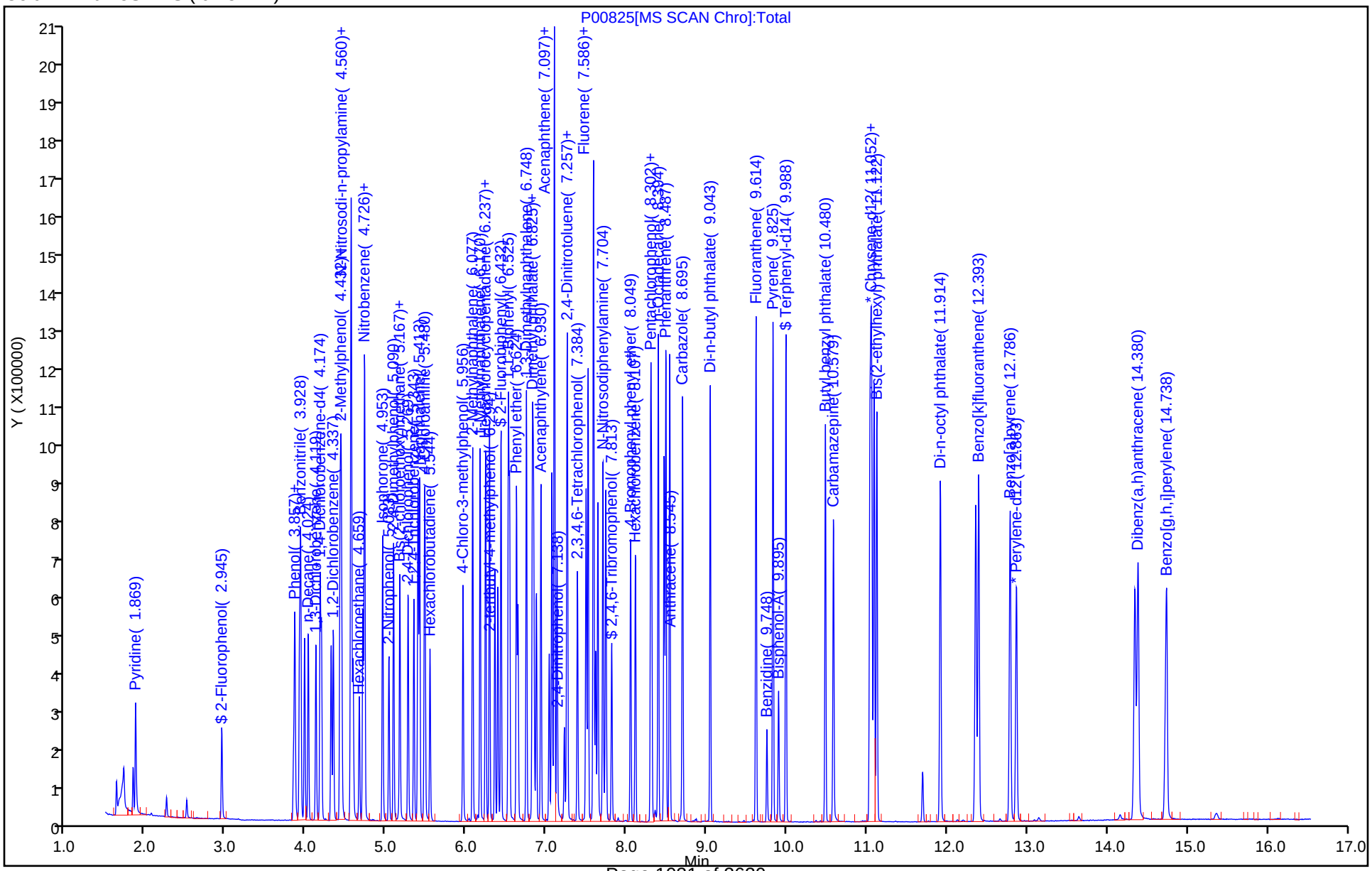
Lims ID: LCSD 460-504508/3-A Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

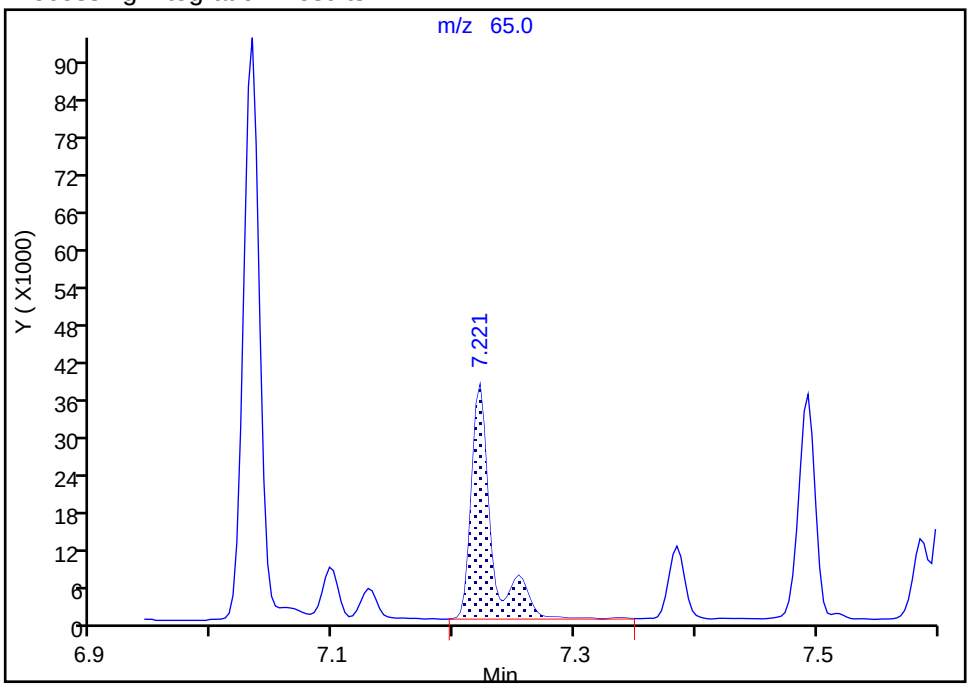
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00825.D
Injection Date: 19-Mar-2018 22:09:30 Instrument ID: CBNAMS18
Lims ID: LCSD 460-504508/3-A
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

68 4-Nitrophenol, CAS: 100-02-7

Signal: 1

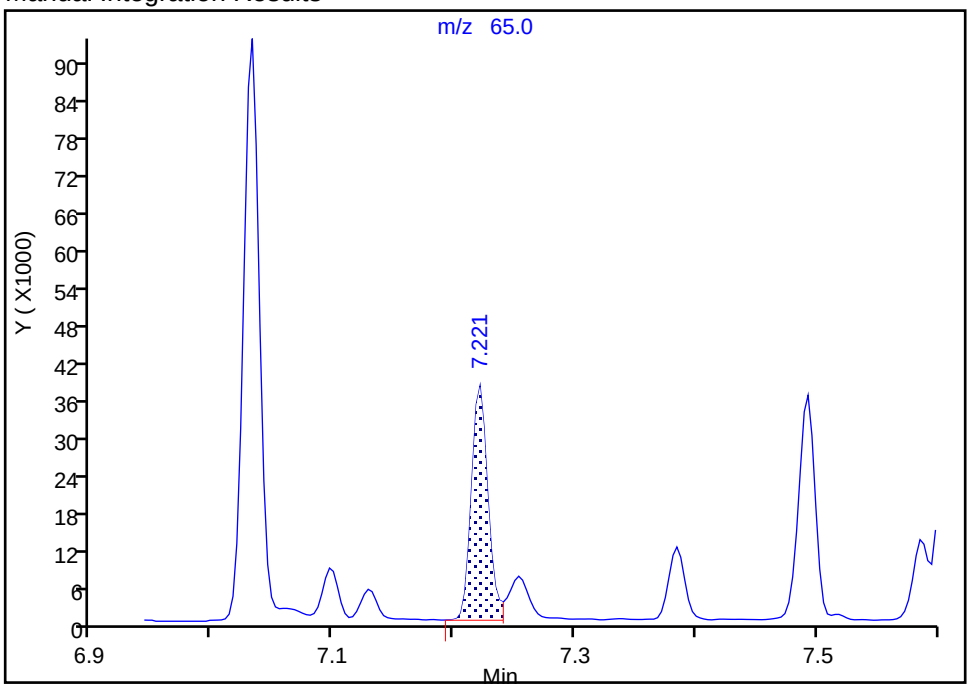
Processing Integration Results

RT: 7.22
Area: 44086
Amount: 7.439241
Amount Units: ug/ml



Manual Integration Results

RT: 7.22
Area: 35859
Amount: 6.050985
Amount Units: ug/ml



Reviewer: croccom, 20-Mar-2018 10:10:13
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

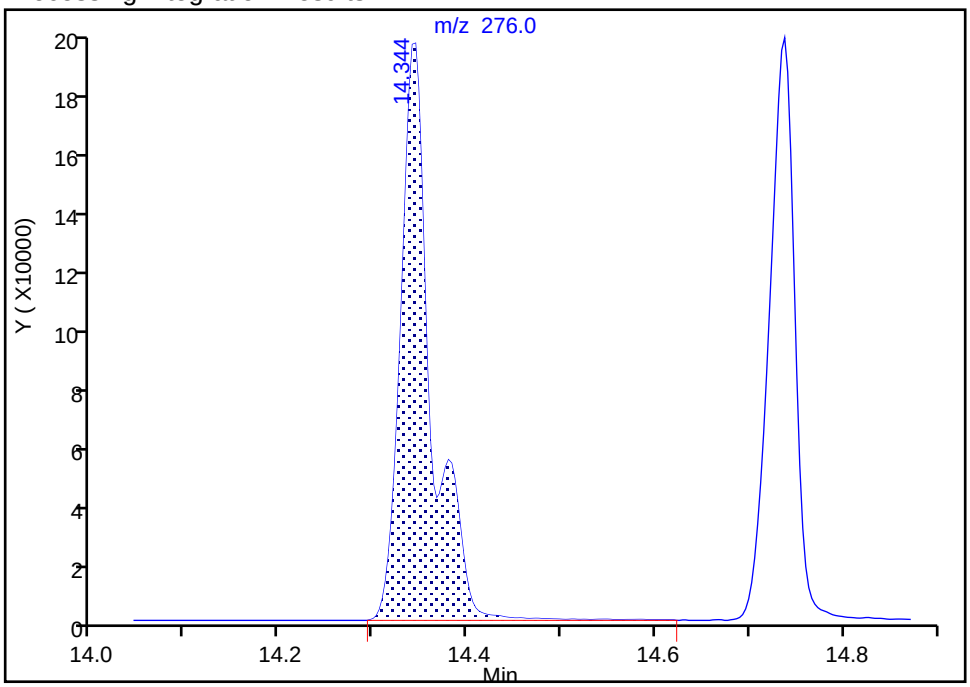
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00825.D				
Injection Date:	19-Mar-2018 22:09:30	Instrument ID:	CBNAMS18		
Lims ID:	LCSD 460-504508/3-A				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

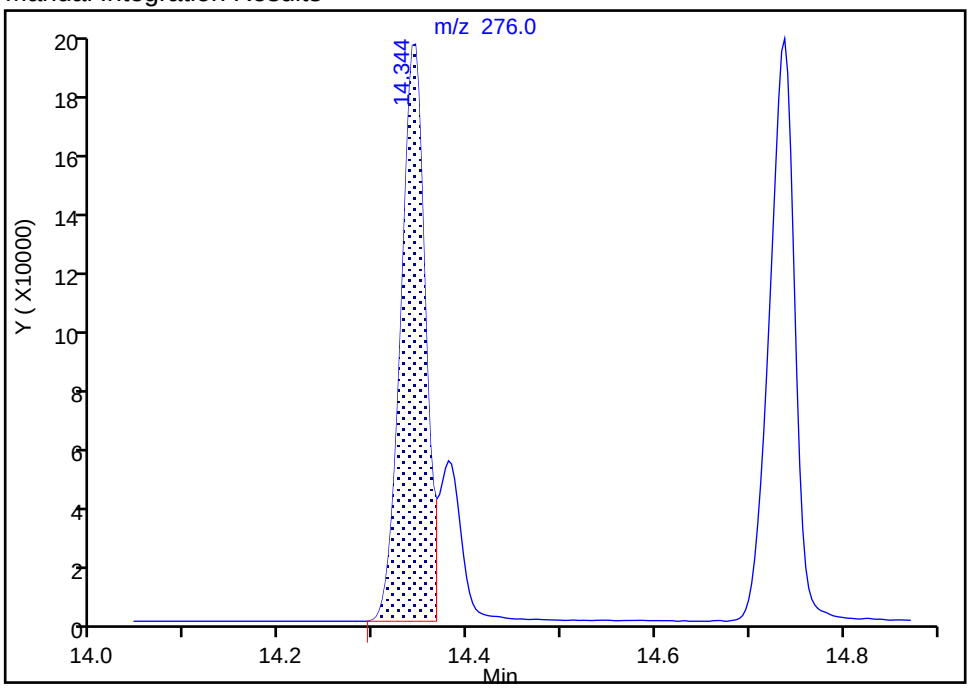
Processing Integration Results

RT: 14.34
Area: 446127
Amount: 10.151750
Amount Units: ug/ml



Manual Integration Results

RT: 14.34
Area: 356341
Amount: 10.650249
Amount Units: ug/ml



Reviewer: eisam, 20-Mar-2018 00:14:51

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504508/5-A

Matrix: Water | Lab File ID: P00827.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/19/2018 22:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504609 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	193		2.0	0.77
100-52-7	Benzaldehyde	136		10	0.86
105-60-2	Caprolactam	44.2		10	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	99		26-139
321-60-8	2-Fluorobiphenyl	82		45-107
367-12-4	2-Fluorophenol (Surr)	43		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	91		51-108
4165-62-2	Phenol-d5 (Surr)	28		14-39
1718-51-0	Terphenyl-d14 (Surr)	113		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00827.D
Lims ID: LCSD 460-504508/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 19-Mar-2018 22:51:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069001-008
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 20-Mar-2018 11:35:19 Calib Date: 27-Feb-2018 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180227-68083.b\P00471.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK059

First Level Reviewer: hamziy Date: 19-Mar-2018 23:12:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	2.948	2.938	0.010	91	77396	10.0	4.29	
5 Benzaldehyde	77	3.752	3.784	-0.035	95	288164	20.0	16.9	
$ 6 Phenol-d5	99	3.841	3.841	0.000	99	64013	10.0	2.81	
* 14 1,4-Dichlorobenzene-d4	152	4.173	4.170	0.003	98	99950	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.706	4.707	-0.001	90	187997	10.0	9.15	
* 38 Naphthalene-d8	136	5.392	5.394	-0.002	99	423594	8.00	8.00	
42 Caprolactam	113	5.769	5.778	-0.013	87	21416	20.0	5.53	a
$ 51 2-Fluorobiphenyl	172	6.429	6.432	-0.003	97	301960	10.0	8.25	
* 64 Acenaphthene-d10	164	7.064	7.065	-0.001	99	182546	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.811	7.816	-0.005	93	45774	10.0	9.86	
83 Atrazine	200	8.219	8.215	0.000	84	192417	20.0	24.1	Ea
* 87 Phenanthrene-d10	188	8.465	8.468	-0.003	99	353697	8.00	8.00	
$ 96 Terphenyl-d14	244	9.987	9.988	-0.001	99	440467	10.0	11.3	
* 102 Chrysene-d12	240	11.053	11.061	-0.008	98	310679	8.00	8.00	
* 109 Perylene-d12	264	12.863	12.866	-0.003	95	315294	8.00	8.00	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
a - User Assigned ID

Reagents:

SM_ISTD_LVI_00169 Amount Added: 20.00 Units: uL Run Reagent

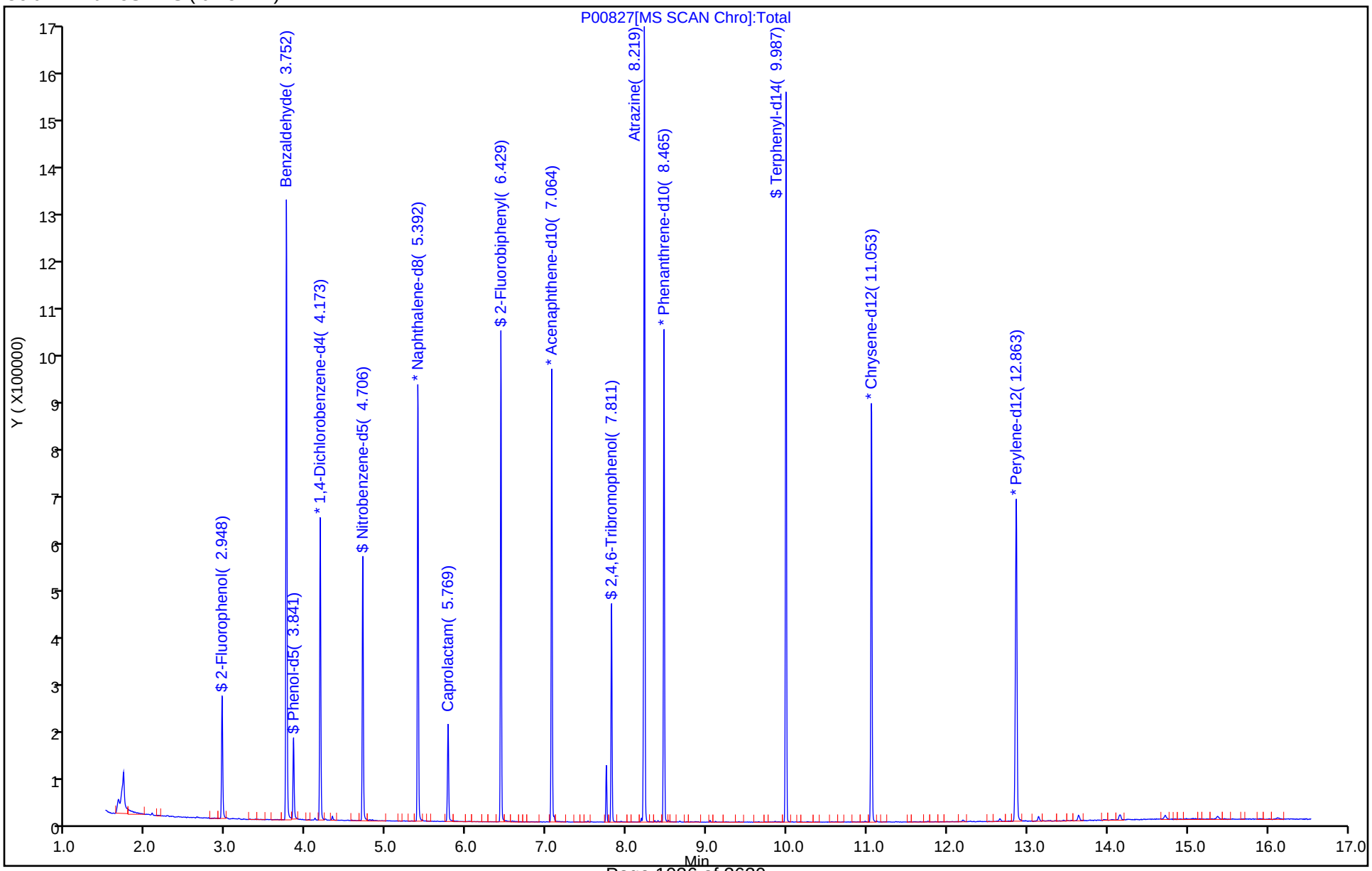
Report Date: 20-Mar-2018 11:36:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00827.D

Injection Date:	19-Mar-2018 22:51:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	LCSD 460-504508/5-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

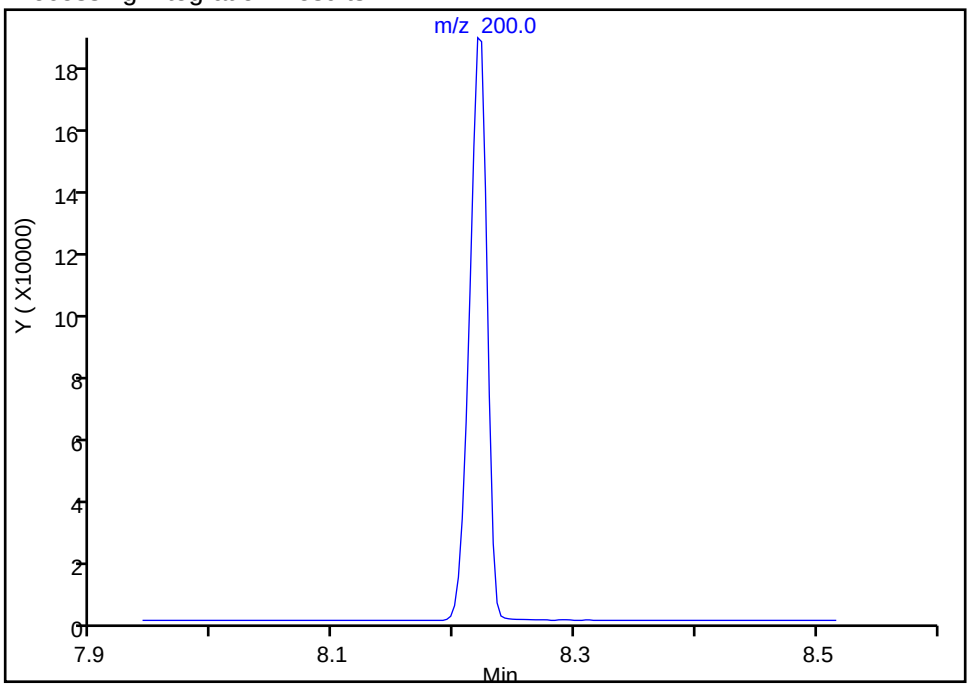
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00827.D				
Injection Date:	19-Mar-2018 22:51:30	Instrument ID:	CBNAMS18		
Lims ID:	LCSD 460-504508/5-A				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

83 Atrazine, CAS: 1912-24-9

Signal: 1

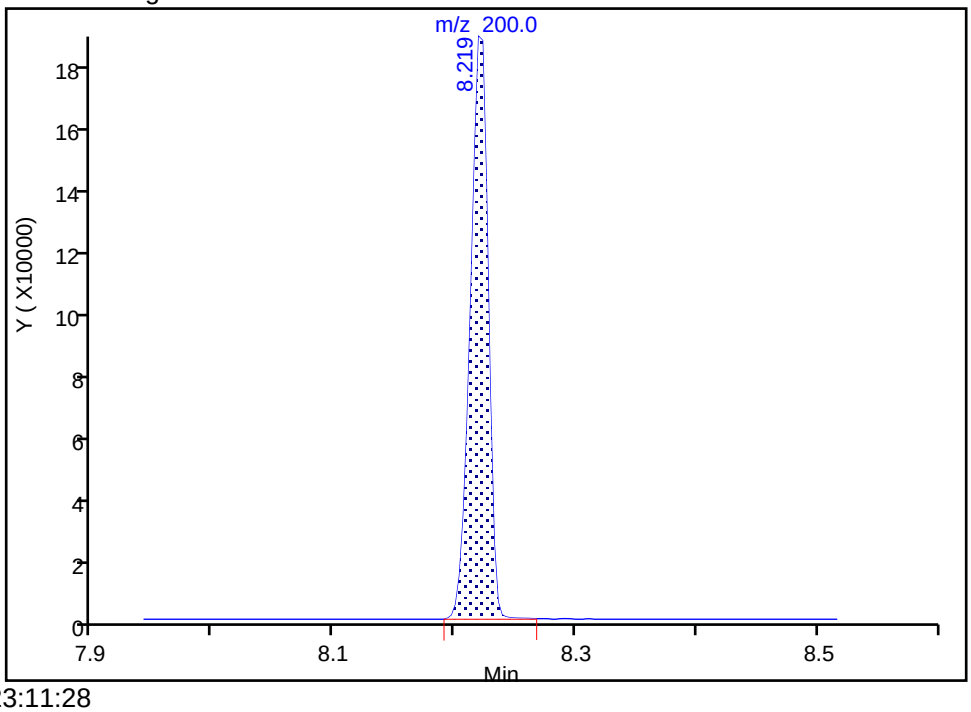
Not Detected
Expected RT: 8.22

Processing Integration Results



Manual Integration Results

RT: 8.22
Area: 192417
Amount: 24.146866
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 23:11:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

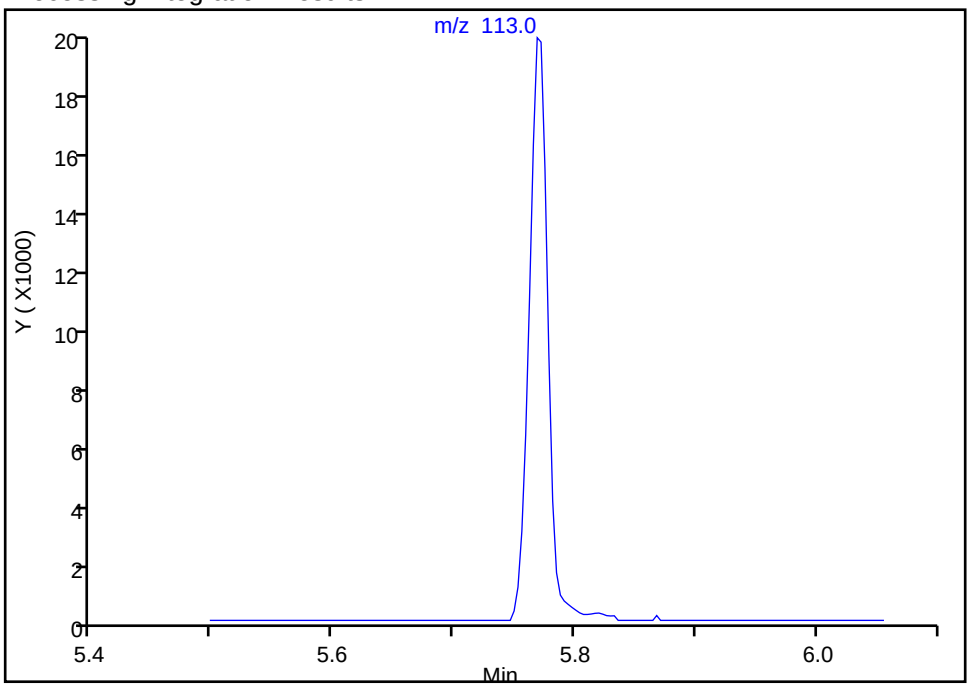
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180319-69001.b\P00827.D				
Injection Date:	19-Mar-2018 22:51:30	Instrument ID:	CBNAMS18		
Lims ID:	LCSD 460-504508/5-A				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

42 Caprolactam, CAS: 105-60-2

Signal: 1

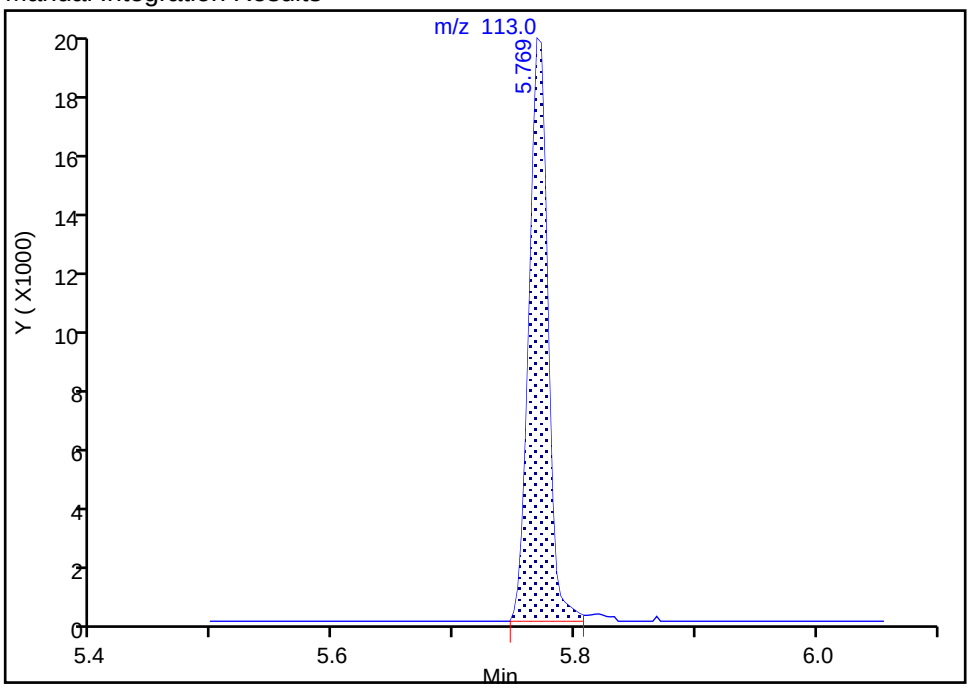
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.77
Area: 21416
Amount: 5.528852
Amount Units: ug/ml



Reviewer: hamziy, 19-Mar-2018 23:11:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-B MS

Matrix: Solid | Lab File ID: L2077651.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0119(g) | Date Analyzed: 03/22/2018 11:30

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3.08		0.36	0.0048
95-94-3	1,2,4,5-Tetrachlorobenzene	3.05		0.36	0.0047
123-91-1	1,4-Dioxane	2.06		0.36	0.0099
108-60-1	2,2'-oxybis[1-chloropropane]	2.90		0.36	0.0065
58-90-2	2,3,4,6-Tetrachlorophenol	3.42		0.36	0.024
95-95-4	2,4,5-Trichlorophenol	3.08		0.36	0.012
88-06-2	2,4,6-Trichlorophenol	3.43		0.14	0.018
120-83-2	2,4-Dichlorophenol	3.26		0.14	0.0076
105-67-9	2,4-Dimethylphenol	3.10		0.36	0.016
51-28-5	2,4-Dinitrophenol	7.46		0.29	0.18
121-14-2	2,4-Dinitrotoluene	3.66		0.072	0.018
606-20-2	2,6-Dinitrotoluene	3.54		0.072	0.012
91-58-7	2-Chloronaphthalene	3.04		0.36	0.017
95-57-8	2-Chlorophenol	3.04		0.36	0.0050
91-57-6	2-Methylnaphthalene	3.06		0.36	0.0045
95-48-7	2-Methylphenol	3.05		0.36	0.0058
88-74-4	2-Nitroaniline	3.33		0.36	0.013
88-75-5	2-Nitrophenol	3.34		0.36	0.011
15831-10-4	3 & 4 Methylphenol	3.04		0.36	0.0061
91-94-1	3,3'-Dichlorobenzidine	2.38		0.14	0.054
99-09-2	3-Nitroaniline	2.62		0.36	0.019
534-52-1	4,6-Dinitro-2-methylphenol	7.43		0.29	0.058
101-55-3	4-Bromophenyl phenyl ether	3.32		0.36	0.0046
59-50-7	4-Chloro-3-methylphenol	3.24		0.36	0.0059
106-47-8	4-Chloroaniline	1.92		0.36	0.025
7005-72-3	4-Chlorophenyl phenyl ether	3.17		0.36	0.0056
106-44-5	4-Methylphenol	3.04		0.36	0.0061
100-01-6	4-Nitroaniline	3.12		0.36	0.013
100-02-7	4-Nitrophenol	6.57		0.72	0.058
83-32-9	Acenaphthene	3.00		0.36	0.026
208-96-8	Acenaphthylene	3.08		0.36	0.0037
98-86-2	Acetophenone	2.91		0.36	0.0058
120-12-7	Anthracene	3.22		0.36	0.0040
1912-24-9	Atrazine	6.96		0.14	0.0090

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-B MS

Matrix: Solid | Lab File ID: L2077651.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0119(g) | Date Analyzed: 03/22/2018 11:30

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	5.44		0.36	0.016
56-55-3	Benzo[a]anthracene	3.23		0.036	0.012
50-32-8	Benzo[a]pyrene	3.38		0.036	0.0095
205-99-2	Benzo[b]fluoranthene	3.36		0.036	0.0093
191-24-2	Benzo[g,h,i]perylene	3.46		0.36	0.011
207-08-9	Benzo[k]fluoranthene	3.24		0.036	0.0070
111-91-1	Bis(2-chloroethoxy)methane	2.97		0.36	0.012
111-44-4	Bis(2-chloroethyl)ether	2.90		0.036	0.0043
117-81-7	Bis(2-ethylhexyl) phthalate	3.44		0.36	0.019
85-68-7	Butyl benzyl phthalate	3.57		0.36	0.017
105-60-2	Caprolactam	7.29		0.36	0.021
86-74-8	Carbazole	3.16		0.36	0.0042
218-01-9	Chrysene	3.31		0.36	0.0060
53-70-3	Dibenz(a,h)anthracene	3.67		0.036	0.015
132-64-9	Dibenzofuran	3.15		0.36	0.0050
84-66-2	Diethyl phthalate	3.09		0.36	0.0052
131-11-3	Dimethyl phthalate	3.09		0.36	0.0043
84-74-2	Di-n-butyl phthalate	3.13		0.36	0.063
117-84-0	Di-n-octyl phthalate	3.34		0.36	0.019
206-44-0	Fluoranthene	3.25		0.36	0.0046
86-73-7	Fluorene	3.15		0.36	0.0049
118-74-1	Hexachlorobenzene	3.30		0.036	0.0052
87-68-3	Hexachlorobutadiene	3.04		0.072	0.0076
77-47-4	Hexachlorocyclopentadiene	2.84		0.36	0.031
67-72-1	Hexachloroethane	2.80		0.036	0.0055
193-39-5	Indeno[1,2,3-cd]pyrene	3.67		0.036	0.014
78-59-1	Isophorone	2.96		0.14	0.0094
91-20-3	Naphthalene	2.96		0.36	0.0062
98-95-3	Nitrobenzene	3.07		0.036	0.0086
621-64-7	N-Nitrosodi-n-propylamine	2.91		0.036	0.0057
86-30-6	N-Nitrosodiphenylamine	3.25		0.36	0.0068
87-86-5	Pentachlorophenol	7.43		0.29	0.073
85-01-8	Phenanthrene	3.34		0.36	0.0063
108-95-2	Phenol	3.10		0.36	0.0053

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-B MS

Matrix: Solid | Lab File ID: L2077651.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0119(g) | Date Analyzed: 03/22/2018 11:30

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
129-00-0	Pyrene	3.55		0.36	0.0089

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	95		10-103
321-60-8	2-Fluorobiphenyl	82		38-95
367-12-4	2-Fluorophenol (Surr)	82		25-92
4165-60-0	Nitrobenzene-d5 (Surr)	79		37-94
4165-62-2	Phenol-d5 (Surr)	83		32-91
1718-51-0	Terphenyl-d14 (Surr)	86		24-109

Report Date: 22-Mar-2018 15:49:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d
Lims ID: 460-152022-E-1-B MS
Client ID:
Sample Type: MS
Inject. Date: 22-Mar-2018 11:30:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-009
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:48:52 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:49:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.899	1.875	0.024	96	77370	50.0	28.6	
2 N-Nitrosodimethylamine	74	2.134	2.116	0.018	76	174076	50.0	37.9	
3 Pyridine	79	2.169	2.152	0.017	80	507578	100.0	64.7	
$ 4 2-Fluorophenol	112	3.340	3.328	0.012	92	285765	50.0	40.9	
5 Benzaldehyde	77	4.151	4.152	-0.001	93	481387	100.0	75.4	
$ 6 Phenol-d5	99	4.222	4.222	0.000	0	359587	50.0	41.3	
7 Phenol	94	4.234	4.234	0.000	97	395002	50.0	43.0	
8 Aniline	93	4.257	4.252	0.005	98	411362	50.0	36.9	a
9 Bis(2-chloroethyl)ether	93	4.310	4.310	0.000	90	277389	50.0	40.3	
10 2-Chlorophenol	128	4.375	4.369	0.006	93	300801	50.0	42.2	
11 n-Decane	43	4.422	4.416	0.006	94	356272	50.0	36.3	
12 1,3-Dichlorobenzene	146	4.516	4.516	0.000	95	317201	50.0	38.8	
* 13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	97	206606	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.587	4.581	0.006	94	321792	50.0	39.1	
15 Benzyl alcohol	108	4.698	4.693	0.005	91	196806	50.0	41.0	
16 1,2-Dichlorobenzene	146	4.728	4.728	0.000	96	308714	50.0	39.4	
17 2-Methylphenol	108	4.804	4.804	0.000	90	276689	50.0	42.3	
18 2,2'-oxybis[1-chloropropan	45	4.822	4.822	0.000	91	528301	50.0	40.3	
22 Acetophenone	105	4.945	4.946	-0.001	81	414896	50.0	40.4	
19 4-Methylphenol	108	4.951	4.951	0.000	81	316376	50.0	42.2	
20 3 & 4 Methylphenol	108	4.951	4.951	0.000	80	316376	50.0	42.2	
21 N-Nitrosodi-n-propylamine	70	4.951	4.951	0.000	94	224902	50.0	40.3	
25 Hexachloroethane	117	5.051	5.051	0.000	95	123343	50.0	38.8	
24 2-Toluidine	107	5.110	5.099	0.017	35	5285		NC	
$ 26 Nitrobenzene-d5	82	5.092	5.093	-0.001	91	314434	50.0	39.6	
27 Nitrobenzene	123	5.110	5.110	0.000	89	143795	50.0	42.6	
28 n,n'-Dimethylaniline	120	5.116	5.116	0.000	94	447465	50.0	42.0	
29 Isophorone	82	5.334	5.334	0.000	98	547065	50.0	41.1	
30 2-Nitrophenol	139	5.410	5.410	0.000	86	156856	50.0	46.4	
31 2,4-Dimethylphenol	122	5.457	5.457	0.000	90	267295	50.0	43.0	
32 Bis(2-chloroethoxy)methane	93	5.539	5.540	-0.001	95	350380	50.0	41.2	
33 Benzoic acid	122	5.551	5.563	-0.012	92	113889	50.0	34.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 2,4-Dichlorophenol	162	5.645	5.646	-0.001	94	264684	50.0	45.3	
35 1,2,4-Trichlorobenzene	180	5.722	5.722	0.000	95	270151	50.0	41.3	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	826834	40.0	40.0	
37 Naphthalene	128	5.792	5.793	-0.001	99	845764	50.0	41.1	
38 4-Chloroaniline	127	5.845	5.846	-0.001	96	236930	50.0	26.6	
39 Hexachlorobutadiene	225	5.922	5.922	0.000	95	149489	50.0	42.2	
40 Caprolactam	113	6.186	6.151	0.035	87	177677	100.0	101.1	
41 4-Chloro-3-methylphenol	107	6.322	6.310	0.012	98	263911	50.0	44.9	
42 2-Methylnaphthalene	142	6.451	6.451	0.000	85	588493	50.0	42.4	
43 1-Methylnaphthalene	142	6.545	6.545	0.000	93	557389	50.0	42.2	
44 Hexachlorocyclopentadiene	237	6.610	6.610	0.000	97	165631	50.0	39.4	
45 1,2,4,5-Tetrachlorobenzene	216	6.616	6.616	0.000	98	281655	50.0	42.3	
46 2-tertbutyl-4-methylphenol	149	6.651	6.645	0.006	90	399409	50.0	46.3	
48 2,4,6-Trichlorophenol	196	6.728	6.722	0.006	90	192259	50.0	47.6	
49 2,4,5-Trichlorophenol	196	6.763	6.757	0.006	97	204206	50.0	42.8	
$ 50 2-Fluorobiphenyl	172	6.804	6.804	0.000	97	628656	50.0	41.0	
56 1-Naphthylamine	143	6.804	6.863	-0.059	43	1220		NC	
51 1,1'-Biphenyl	154	6.898	6.898	0.000	97	709495	50.0	42.7	
52 2-Chloronaphthalene	162	6.910	6.916	-0.006	98	552391	50.0	42.1	
53 Phenyl ether	170	6.992	6.998	-0.006	91	374171	50.0	45.3	
54 2-Nitroaniline	65	7.010	7.010	0.000	97	224551	50.0	46.1	
57 2-Naphthylamine	143	7.122	7.104	0.018	47	2892		NC	
55 1,3-Dimethylnaphthalene	156	7.122	7.122	0.000	91	473225	50.0	45.4	
58 Dimethyl phthalate	163	7.186	7.193	-0.006	98	641131	50.0	42.9	a
59 Coumarin	146	7.204	7.204	0.000	80	231152	50.0	44.5	
60 2,6-Dinitrotoluene	165	7.239	7.240	-0.001	93	143410	50.0	49.1	
61 Acenaphthylene	152	7.304	7.304	0.000	97	842141	50.0	42.7	
62 3-Nitroaniline	138	7.398	7.398	0.000	93	131191	50.0	36.3	
* 63 Acenaphthene-d10	164	7.439	7.440	-0.001	99	404125	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.469	7.469	0.000	98	500376	50.0	46.3	
65 Acenaphthene	154	7.469	7.475	-0.006	96	561098	50.0	41.6	
66 2,4-Dinitrophenol	184	7.498	7.498	0.000	62	173159	100.0	103.5	a
67 4-Nitrophenol	65	7.569	7.569	0.000	90	268772	100.0	91.2	
68 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	196312	50.0	50.7	
69 Dibenzofuran	168	7.633	7.634	-0.001	96	807367	50.0	43.7	
70 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	0.000	94	168314	50.0	47.4	
71 Diethyl phthalate	149	7.857	7.857	0.000	98	650143	50.0	42.8	
74 Fluorene	166	7.957	7.957	0.000	93	653125	50.0	43.8	
73 4-Chlorophenyl phenyl ethe	204	7.957	7.957	0.000	76	301615	50.0	44.0	
75 4-Nitroaniline	138	7.980	7.981	-0.001	93	165757	50.0	43.3	
76 4,6-Dinitro-2-methylphenol	198	8.010	8.016	-0.006	81	202121	100.0	103.1	
77 N-Nitrosodiphenylamine	169	8.069	8.075	-0.006	99	457731	50.0	45.0	
78 1,2-Diphenylhydrazine	77	8.110	8.110	0.000	100	675856	50.0	44.3	
$ 79 2,4,6-Tribromophenol	330	8.186	8.187	-0.001	95	102872	50.0	47.7	
80 4-Bromophenyl phenyl ether	248	8.422	8.422	0.000	90	187137	50.0	46.0	
81 Hexachlorobenzene	284	8.486	8.487	-0.001	98	207017	50.0	45.8	
82 Atrazine	200	8.586	8.581	0.005	89	359810	100.0	96.5	
83 Pentachlorophenol	266	8.669	8.675	-0.006	94	251115	100.0	103.0	
84 Pentachloronitrobenzene	237	8.686	8.687	-0.001	88	90820	50.0	50.3	
72 n-Octadecane	57	8.757	8.757	0.000	93	520524	50.0	43.7	
* 85 Phenanthrene-d10	188	8.845	8.845	0.000	99	746807	40.0	40.0	
86 Phenanthrene	178	8.863	8.869	-0.006	98	989958	50.0	46.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Anthracene	178	8.910	8.916	-0.006	98	987371	50.0	44.6	
88 Carbazole	167	9.063	9.069	-0.006	96	883656	50.0	43.8	
89 Di-n-butyl phthalate	149	9.404	9.404	0.000	99	1070400	50.0	43.4	a
90 Fluoranthene	202	9.986	9.992	-0.006	97	1020006	50.0	45.1	
91 Benzidine	184	10.110	10.116	-0.006	99	212232	50.0	16.9	a
92 Pyrene	202	10.204	10.204	0.000	97	1033602	50.0	49.3	
93 Bisphenol-A	213	10.257	10.257	0.000	98	231909	25.0	29.1	
$ 94 Terphenyl-d14	244	10.363	10.363	0.000	100	631420	50.0	42.9	
95 Butyl benzyl phthalate	149	10.880	10.881	0.000	97	455417	50.0	49.5	
97 Carbamazepine	193	10.992	10.992	0.000	93	406427	50.0	51.1	
98 3,3'-Dichlorobenzidine	252	11.474	11.480	-0.006	100	247801	50.0	33.0	
99 Benzo[a]anthracene	228	11.498	11.486	0.000	100	885896	50.0	44.8	
* 100 Chrysene-d12	240	11.510	11.516	-0.006	99	637538	40.0	40.0	
101 Chrysene	228	11.545	11.545	0.000	98	826406	50.0	46.0	
102 Bis(2-ethylhexyl) phthalat	149	11.563	11.569	-0.006	88	640674	50.0	47.7	
103 Di-n-octyl phthalate	149	12.439	12.445	-0.006	97	1086854	50.0	46.4	
104 Benzo[b]fluoranthene	252	12.933	12.933	0.000	98	875835	50.0	46.7	
105 Benzo[k]fluoranthene	252	12.968	12.974	-0.006	99	868211	50.0	44.9	
106 Benzo[a]pyrene	252	13.398	13.398	0.000	96	834362	50.0	46.8	
* 107 Perylene-d12	264	13.480	13.486	-0.006	97	677002	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.133	15.133	-0.006	98	835929	50.0	50.9	M
109 Dibenz(a,h)anthracene	278	15.180	15.179	-0.006	97	832844	50.0	51.0	
110 Benzo[g,h,i]perylene	276	15.609	15.615	-0.006	96	868900	50.0	48.0	
S 117 Total Cresols	1				0			84.5	
123 4,4'-DDD	235	7.757	7.692	0.065	54	5108		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
7 - Failed Limit of Detection

Review Flags

M - Manually Integrated
a - User Assigned ID

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 15:49:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d

Injection Date: 22-Mar-2018 11:30:30 Instrument ID: CBNAMS12 Operator ID:

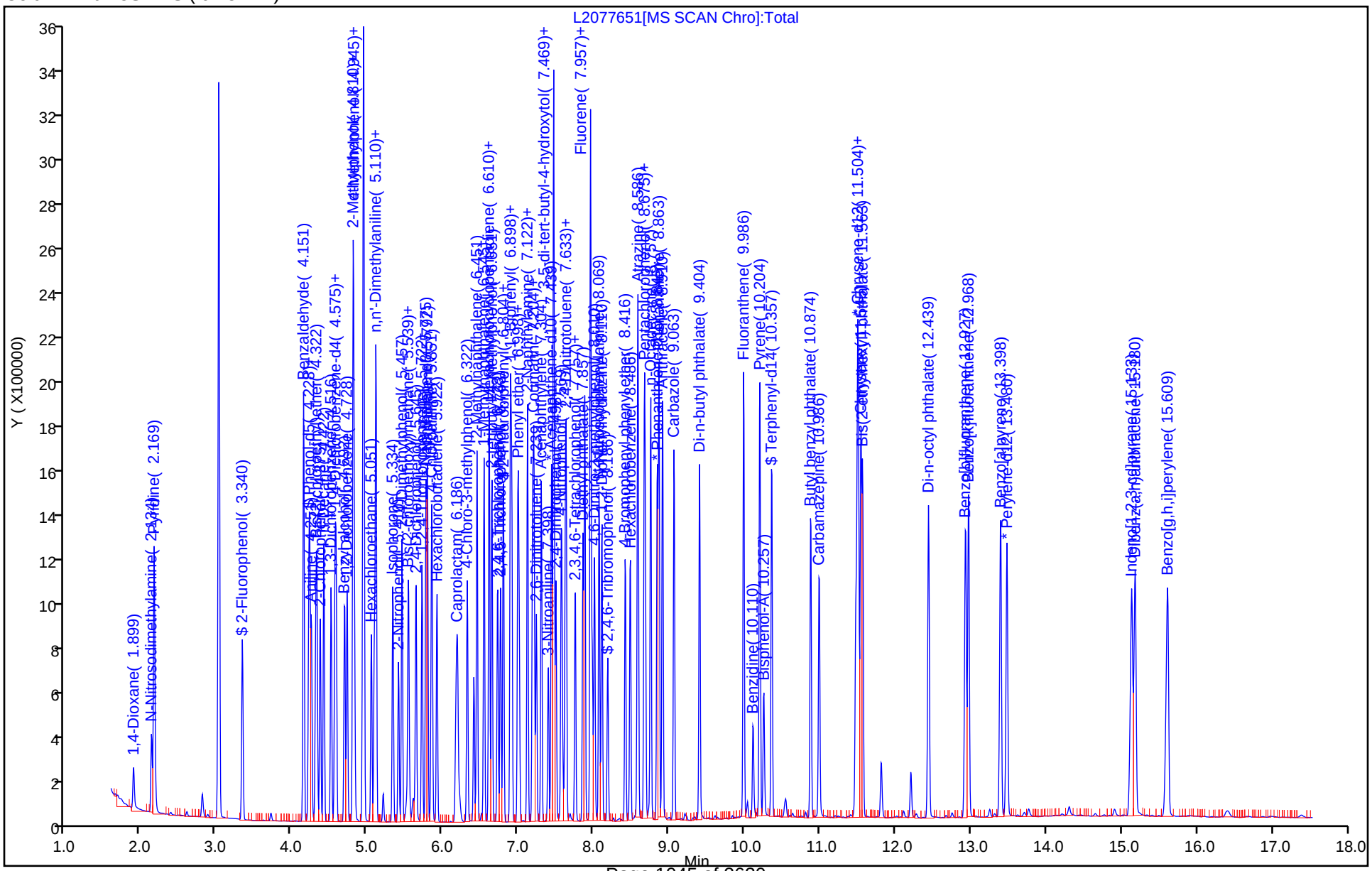
Lims ID: 460-152022-E-1-B MS Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8270_12R_9 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

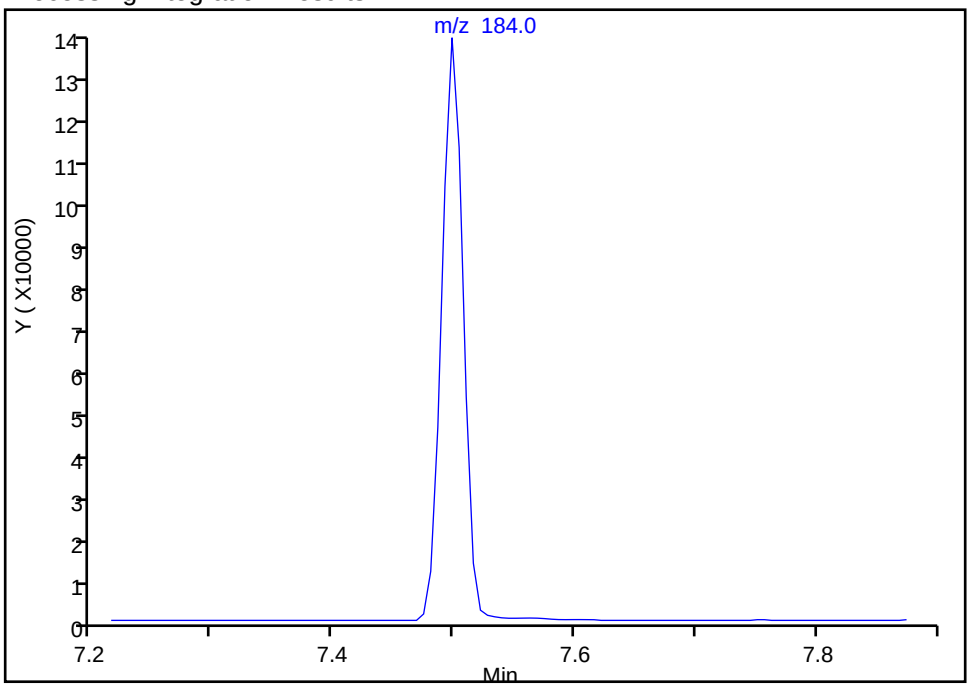
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d				
Injection Date:	22-Mar-2018 11:30:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-B MS				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

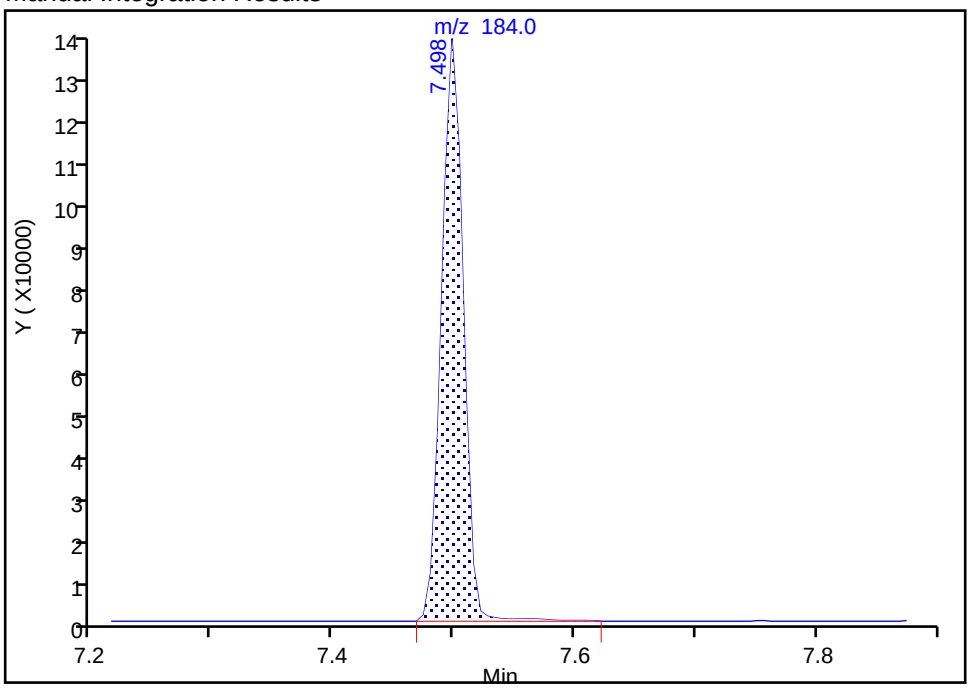
Processing Integration Results

Not Detected
Expected RT: 7.50



Manual Integration Results

RT: 7.50
Area: 173159
Amount: 103.5249
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:08:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

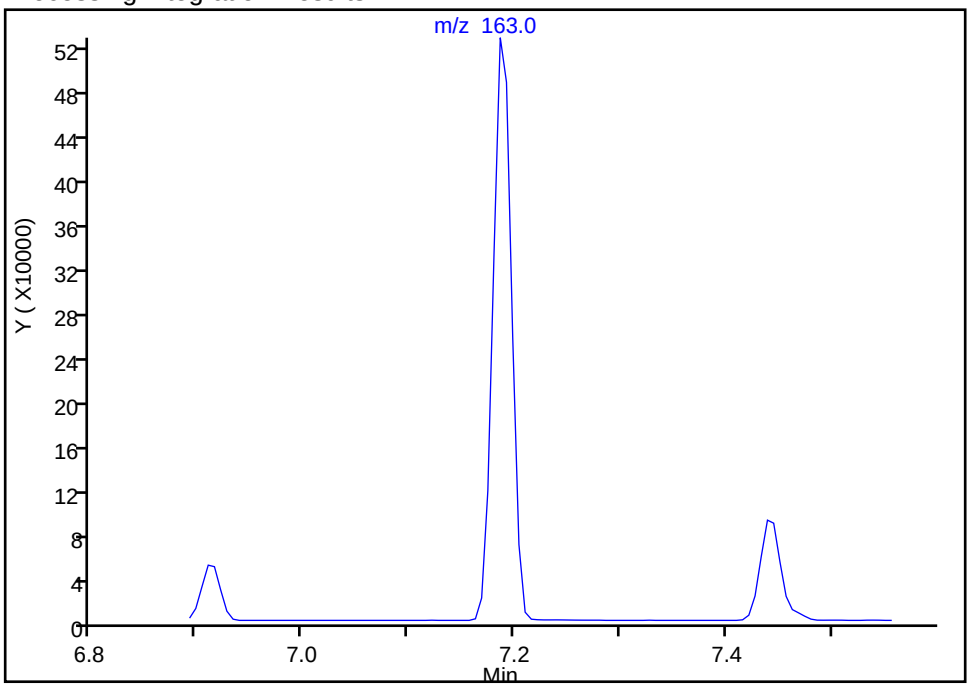
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d				
Injection Date:	22-Mar-2018 11:30:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-B MS				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

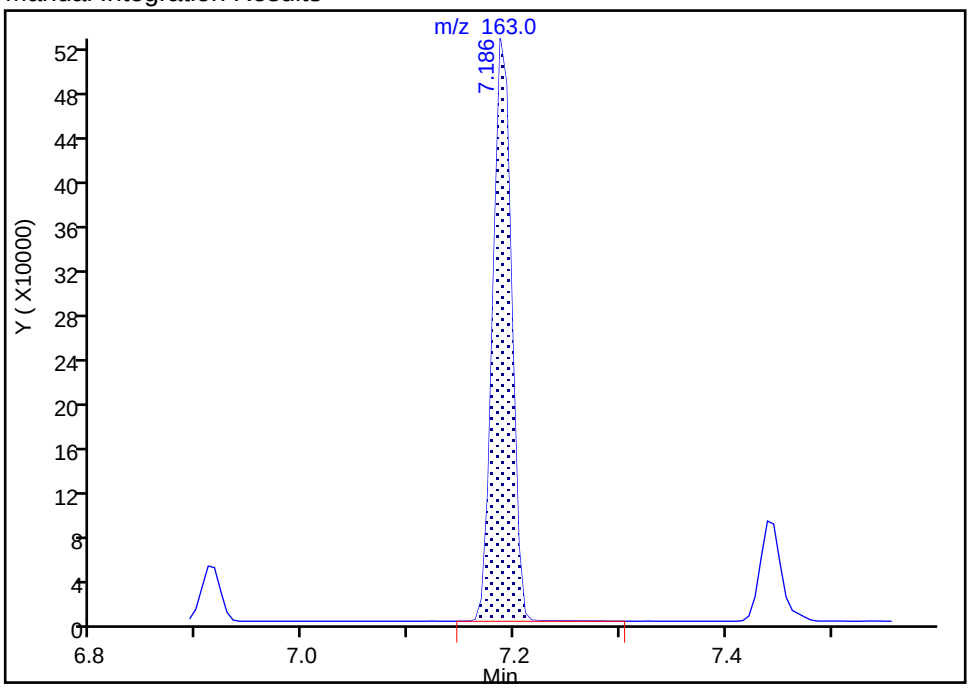
Not Detected
Expected RT: 7.19

Processing Integration Results



Manual Integration Results

RT: 7.19
Area: 641131
Amount: 42.918328
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:07:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

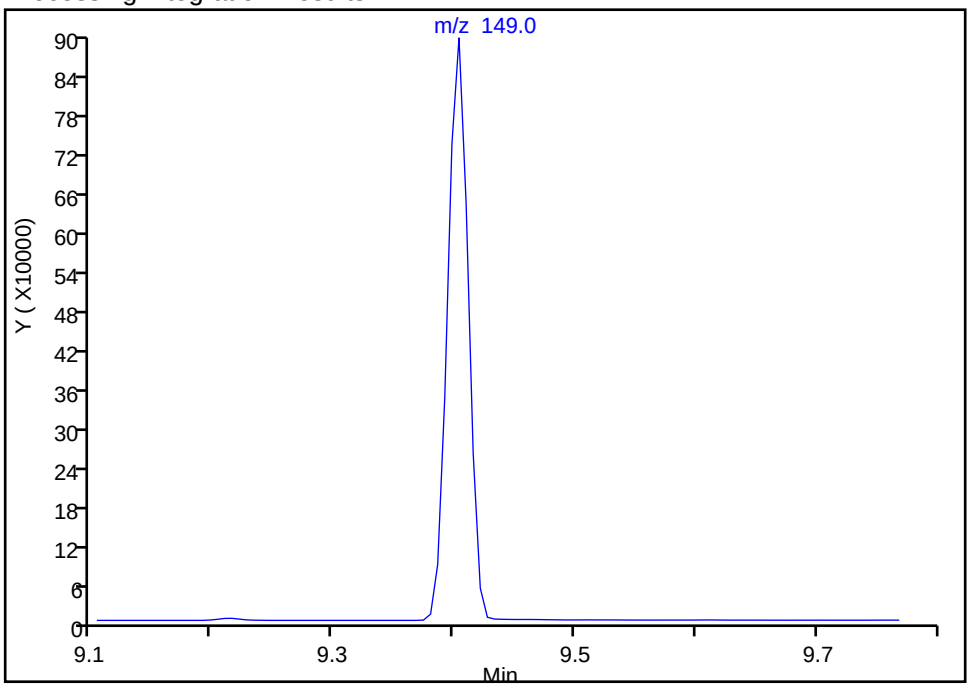
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d				
Injection Date:	22-Mar-2018 11:30:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-B MS				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

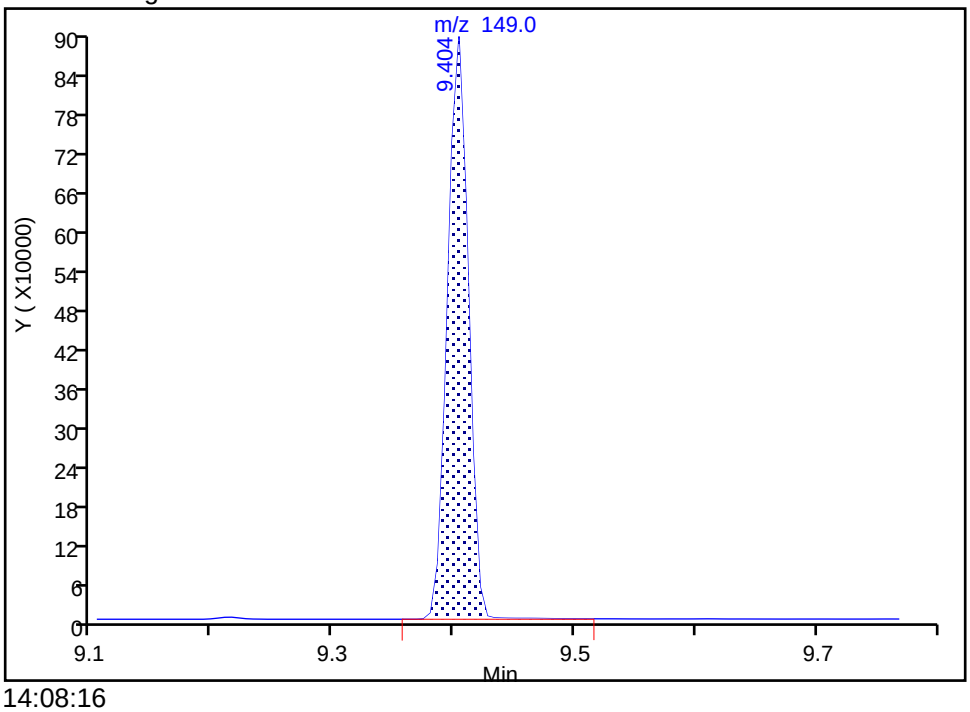
Processing Integration Results

Not Detected
Expected RT: 9.40



Manual Integration Results

RT: 9.40
Area: 1070400
Amount: 43.402399
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:08:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

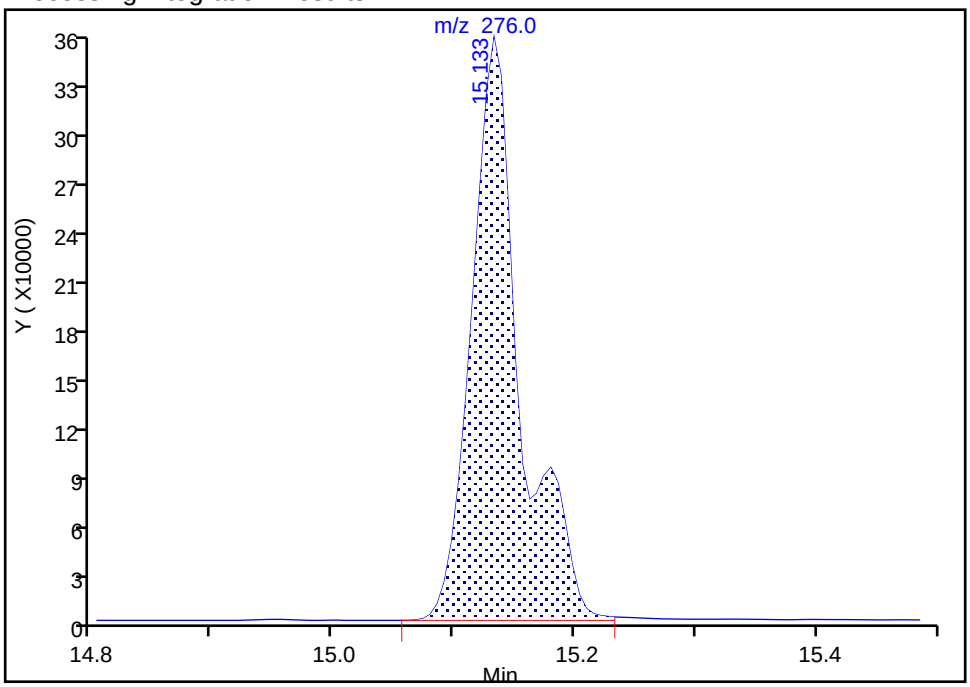
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077651.d				
Injection Date:	22-Mar-2018 11:30:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-B MS				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

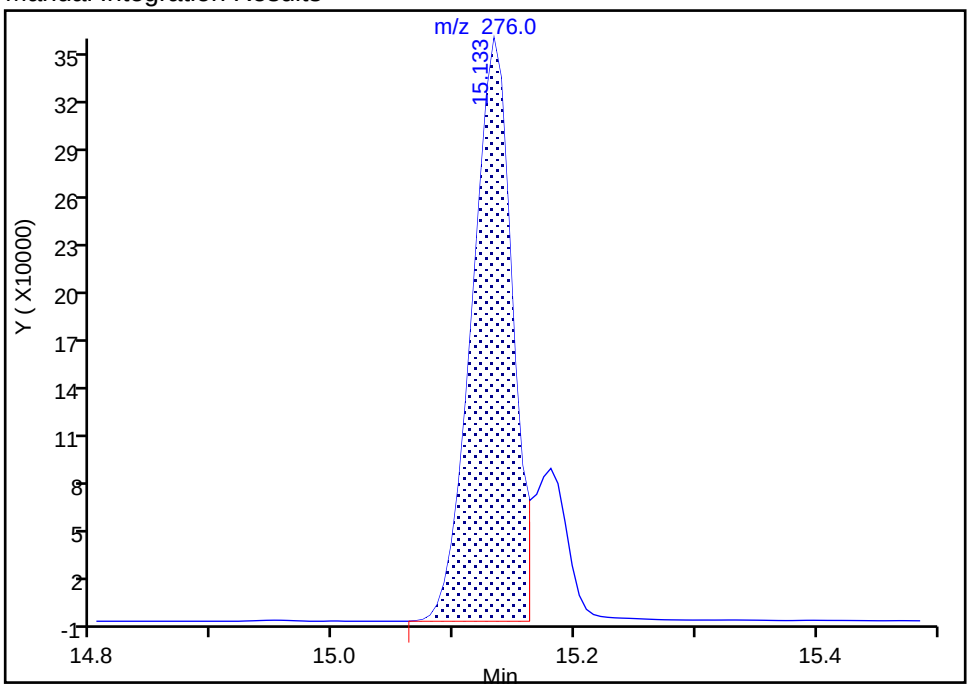
Processing Integration Results

RT: 15.13
Area: 1003571
Amount: 61.105079
Amount Units: ug/ml



Manual Integration Results

RT: 15.13
Area: 835929
Amount: 50.897752
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:08:54

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-C MSD

Matrix: Solid | Lab File ID: L2077652.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0044(g) | Date Analyzed: 03/22/2018 11:53

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3.22		0.36	0.0048
95-94-3	1,2,4,5-Tetrachlorobenzene	3.19		0.36	0.0047
123-91-1	1,4-Dioxane	2.10		0.36	0.0099
108-60-1	2,2'-oxybis[1-chloropropane]	2.97		0.36	0.0065
58-90-2	2,3,4,6-Tetrachlorophenol	3.56		0.36	0.024
95-95-4	2,4,5-Trichlorophenol	3.26		0.36	0.012
88-06-2	2,4,6-Trichlorophenol	3.56		0.14	0.018
120-83-2	2,4-Dichlorophenol	3.42		0.14	0.0076
105-67-9	2,4-Dimethylphenol	3.25		0.36	0.016
51-28-5	2,4-Dinitrophenol	7.78		0.29	0.18
121-14-2	2,4-Dinitrotoluene	3.81		0.072	0.018
606-20-2	2,6-Dinitrotoluene	3.76		0.072	0.012
91-58-7	2-Chloronaphthalene	3.20		0.36	0.017
95-57-8	2-Chlorophenol	3.12		0.36	0.0050
91-57-6	2-Methylnaphthalene	3.15		0.36	0.0045
95-48-7	2-Methylphenol	3.18		0.36	0.0058
88-74-4	2-Nitroaniline	3.45		0.36	0.013
88-75-5	2-Nitrophenol	3.47		0.36	0.011
15831-10-4	3 & 4 Methylphenol	3.15		0.36	0.0061
91-94-1	3,3'-Dichlorobenzidine	2.57		0.14	0.054
99-09-2	3-Nitroaniline	2.69		0.36	0.019
534-52-1	4,6-Dinitro-2-methylphenol	7.84		0.29	0.058
101-55-3	4-Bromophenyl phenyl ether	3.47		0.36	0.0046
59-50-7	4-Chloro-3-methylphenol	3.36		0.36	0.0059
106-47-8	4-Chloroaniline	2.09		0.36	0.025
7005-72-3	4-Chlorophenyl phenyl ether	3.30		0.36	0.0056
106-44-5	4-Methylphenol	3.15		0.36	0.0061
100-01-6	4-Nitroaniline	3.22		0.36	0.013
100-02-7	4-Nitrophenol	6.83		0.72	0.058
83-32-9	Acenaphthene	3.14		0.36	0.026
208-96-8	Acenaphthylene	3.16		0.36	0.0037
98-86-2	Acetophenone	2.98		0.36	0.0058
120-12-7	Anthracene	3.32		0.36	0.0040
1912-24-9	Atrazine	7.41		0.14	0.0090

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-C MSD

Matrix: Solid | Lab File ID: L2077652.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0044(g) | Date Analyzed: 03/22/2018 11:53

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	5.58		0.36	0.016
56-55-3	Benzo[a]anthracene	3.35		0.036	0.012
50-32-8	Benzo[a]pyrene	3.53		0.036	0.0095
205-99-2	Benzo[b]fluoranthene	3.54		0.036	0.0093
191-24-2	Benzo[g,h,i]perylene	3.63		0.36	0.011
207-08-9	Benzo[k]fluoranthene	3.39		0.036	0.0070
111-91-1	Bis(2-chloroethoxy)methane	3.10		0.36	0.012
111-44-4	Bis(2-chloroethyl)ether	2.97		0.036	0.0043
117-81-7	Bis(2-ethylhexyl) phthalate	4.01		0.36	0.019
85-68-7	Butyl benzyl phthalate	3.75		0.36	0.017
105-60-2	Caprolactam	7.47		0.36	0.021
86-74-8	Carbazole	3.26		0.36	0.0042
218-01-9	Chrysene	3.43		0.36	0.0061
53-70-3	Dibenz(a,h)anthracene	3.87		0.036	0.015
132-64-9	Dibenzofuran	3.26		0.36	0.0050
84-66-2	Diethyl phthalate	3.25		0.36	0.0052
131-11-3	Dimethyl phthalate	3.27		0.36	0.0043
84-74-2	Di-n-butyl phthalate	3.31		0.36	0.063
117-84-0	Di-n-octyl phthalate	3.57		0.36	0.019
206-44-0	Fluoranthene	3.34		0.36	0.0046
86-73-7	Fluorene	3.27		0.36	0.0049
118-74-1	Hexachlorobenzene	3.45		0.036	0.0052
87-68-3	Hexachlorobutadiene	3.18		0.072	0.0076
77-47-4	Hexachlorocyclopentadiene	3.00		0.36	0.031
67-72-1	Hexachloroethane	2.85		0.036	0.0055
193-39-5	Indeno[1,2,3-cd]pyrene	3.95		0.036	0.014
78-59-1	Isophorone	3.09		0.14	0.0094
91-20-3	Naphthalene	3.05		0.36	0.0062
98-95-3	Nitrobenzene	3.08		0.036	0.0086
621-64-7	N-Nitrosodi-n-propylamine	3.04		0.036	0.0057
86-30-6	N-Nitrosodiphenylamine	3.37		0.36	0.0069
87-86-5	Pentachlorophenol	7.98		0.29	0.073
85-01-8	Phenanthrene	3.42		0.36	0.0063
108-95-2	Phenol	3.21		0.36	0.0053

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152022-E-1-C MSD

Matrix: Solid | Lab File ID: L2077652.d

Analysis Method: 8270D | Date Collected: 03/14/2018 09:40

Extract. Method: 3546 | Date Extracted: 03/21/2018 21:20

Sample wt/vol: +15.0044(g) | Date Analyzed: 03/22/2018 11:53

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

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

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505174 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
129-00-0	Pyrene	3.66		0.36	0.0089

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	100		10-103
321-60-8	2-Fluorobiphenyl	85		38-95
367-12-4	2-Fluorophenol (Surr)	84		25-92
4165-60-0	Nitrobenzene-d5 (Surr)	81		37-94
4165-62-2	Phenol-d5 (Surr)	84		32-91
1718-51-0	Terphenyl-d14 (Surr)	90		24-109

Report Date: 22-Mar-2018 15:50:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077652.d
Lims ID: 460-152022-E-1-C MSD
Client ID:
Sample Type: MSD
Inject. Date: 22-Mar-2018 11:53:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069122-010
Operator ID: Instrument ID: CBNAMS12

Method: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\8270_12R_9.m
Limit Group: SV 8270D ICAL
Last Update: 22-Mar-2018 15:48:52 Calib Date: 15-Mar-2018 20:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20180315-68833.b\L2077541.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: asfawa Date: 22-Mar-2018 15:50:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.899	1.875	0.024	96	82522	50.0	29.2	
2 N-Nitrosodimethylamine	74	2.134	2.116	0.018	76	186253	50.0	38.8	
3 Pyridine	79	2.169	2.152	0.017	80	537538	100.0	65.5	
$ 4 2-Fluorophenol	112	3.340	3.328	0.012	92	307388	50.0	42.1	
5 Benzaldehyde	77	4.152	4.152	0.000	93	516464	100.0	77.4	
$ 6 Phenol-d5	99	4.222	4.222	0.000	0	382678	50.0	42.1	
7 Phenol	94	4.234	4.234	0.000	96	427424	50.0	44.4	
8 Aniline	93	4.251	4.252	-0.001	97	440060	50.0	37.7	a
9 Bis(2-chloroethyl)ether	93	4.310	4.310	0.000	93	296631	50.0	41.2	
10 2-Chlorophenol	128	4.369	4.369	0.000	93	321949	50.0	43.2	
11 n-Decane	43	4.422	4.416	0.006	94	377528	50.0	36.8	
12 1,3-Dichlorobenzene	146	4.516	4.516	0.000	95	338737	50.0	39.6	
* 13 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	97	216043	40.0	40.0	
14 1,4-Dichlorobenzene	146	4.581	4.581	0.000	95	342131	50.0	39.7	
15 Benzyl alcohol	108	4.693	4.693	0.000	92	213912	50.0	42.7	
16 1,2-Dichlorobenzene	146	4.728	4.728	0.000	96	334440	50.0	40.9	
17 2-Methylphenol	108	4.804	4.804	0.000	91	301899	50.0	44.1	
18 2,2'-oxybis[1-chloropropan	45	4.822	4.822	0.000	91	565266	50.0	41.2	
22 Acetophenone	105	4.946	4.946	0.000	87	443680	50.0	41.3	
19 4-Methylphenol	108	4.951	4.951	0.000	81	341733	50.0	43.6	
20 3 & 4 Methylphenol	108	4.951	4.951	0.000	85	341733	50.0	43.6	
21 N-Nitrosodi-n-propylamine	70	4.951	4.951	0.000	94	245376	50.0	42.1	
25 Hexachloroethane	117	5.051	5.051	0.000	95	131354	50.0	39.5	
24 2-Toluidine	107	5.110	5.099	0.017	35	5260		NC	
$ 26 Nitrobenzene-d5	82	5.093	5.093	0.000	91	335711	50.0	40.7	
27 Nitrobenzene	123	5.110	5.110	0.000	88	150407	50.0	42.6	
28 n,n'-Dimethylaniline	120	5.116	5.116	0.000	93	478438	50.0	43.0	
29 Isophorone	82	5.334	5.334	0.000	98	591590	50.0	42.8	
30 2-Nitrophenol	139	5.410	5.410	0.000	86	168763	50.0	48.1	
31 2,4-Dimethylphenol	122	5.457	5.457	0.000	90	290420	50.0	45.0	
32 Bis(2-chloroethoxy)methane	93	5.540	5.540	0.000	96	379458	50.0	43.0	
33 Benzoic acid	122	5.551	5.563	-0.012	93	127318	50.0	36.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 2,4-Dichlorophenol	162	5.646	5.646	0.000	94	287164	50.0	47.4	
35 1,2,4-Trichlorobenzene	180	5.722	5.722	0.000	95	287591	50.0	42.4	
* 36 Naphthalene-d8	136	5.775	5.775	0.000	99	857510	40.0	40.0	
37 Naphthalene	128	5.793	5.793	0.000	99	904471	50.0	42.3	
38 4-Chloroaniline	127	5.846	5.846	0.000	96	267861	50.0	29.0	
39 Hexachlorobutadiene	225	5.922	5.922	0.000	95	161721	50.0	44.1	
40 Caprolactam	113	6.193	6.151	0.042	86	188829	100.0	103.6	
41 4-Chloro-3-methylphenol	107	6.322	6.310	0.012	98	284083	50.0	46.6	
42 2-Methylnaphthalene	142	6.451	6.451	0.000	85	629199	50.0	43.7	
43 1-Methylnaphthalene	142	6.545	6.545	0.000	93	605740	50.0	44.2	
44 Hexachlorocyclopentadiene	237	6.610	6.610	0.000	97	181122	50.0	41.5	
45 1,2,4,5-Tetrachlorobenzene	216	6.616	6.616	0.000	98	305094	50.0	44.2	
46 2-tertbutyl-4-methylphenol	149	6.651	6.645	0.006	90	430690	50.0	48.1	
48 2,4,6-Trichlorophenol	196	6.728	6.722	0.006	92	206857	50.0	49.4	
49 2,4,5-Trichlorophenol	196	6.763	6.757	0.006	98	223821	50.0	45.2	
$ 50 2-Fluorobiphenyl	172	6.804	6.804	0.000	97	676630	50.0	42.6	
56 1-Naphthylamine	143	6.804	6.863	-0.059	43	1185		NC	
51 1,1'-Biphenyl	154	6.893	6.898	-0.006	97	769120	50.0	44.6	
52 2-Chloronaphthalene	162	6.910	6.916	-0.006	99	602562	50.0	44.3	
53 Phenyl ether	170	6.992	6.998	-0.006	91	403151	50.0	47.0	
54 2-Nitroaniline	65	7.010	7.010	0.000	97	241297	50.0	47.8	
57 2-Naphthylamine	143	7.122	7.104	0.018	47	3451		NC	
55 1,3-Dimethylnaphthalene	156	7.122	7.122	0.000	91	509993	50.0	47.2	
58 Dimethyl phthalate	163	7.187	7.193	-0.005	98	703102	50.0	45.4	a
59 Coumarin	146	7.204	7.204	0.000	79	250870	50.0	46.6	
60 2,6-Dinitrotoluene	165	7.240	7.240	0.000	94	157991	50.0	52.1	
61 Acenaphthylene	152	7.304	7.304	0.000	97	895056	50.0	43.8	
62 3-Nitroaniline	138	7.398	7.398	0.000	93	139776	50.0	37.3	
* 63 Acenaphthene-d10	164	7.440	7.440	0.000	98	418975	40.0	40.0	
64 3,5-di-tert-butyl-4-hydrox	205	7.469	7.469	0.000	98	545200	50.0	48.6	
65 Acenaphthene	154	7.469	7.475	-0.006	96	608749	50.0	43.5	
66 2,4-Dinitrophenol	184	7.498	7.498	0.000	62	189480	100.0	107.9	a
67 4-Nitrophenol	65	7.569	7.569	0.000	93	289123	100.0	94.6	
68 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	212052	50.0	52.9	
69 Dibenzofuran	168	7.634	7.634	0.000	96	863477	50.0	45.1	
70 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	0.000	94	181701	50.0	49.3	
71 Diethyl phthalate	149	7.857	7.857	0.000	98	710378	50.0	45.1	
74 Fluorene	166	7.957	7.957	0.000	93	701049	50.0	45.3	
73 4-Chlorophenyl phenyl ethe	204	7.957	7.957	0.000	76	325702	50.0	45.8	
75 4-Nitroaniline	138	7.981	7.981	0.000	93	177046	50.0	44.6	
76 4,6-Dinitro-2-methylphenol	198	8.010	8.016	-0.006	89	222560	100.0	108.7	
77 N-Nitrosodiphenylamine	169	8.069	8.075	-0.006	99	488896	50.0	46.7	
78 1,2-Diphenylhydrazine	77	8.110	8.110	0.000	100	718386	50.0	45.8	
$ 79 2,4,6-Tribromophenol	330	8.187	8.187	0.000	95	111226	50.0	49.8	
80 4-Bromophenyl phenyl ether	248	8.422	8.422	0.000	90	201843	50.0	48.2	
81 Hexachlorobenzene	284	8.487	8.487	-0.001	98	222709	50.0	47.8	
82 Atrazine	200	8.587	8.581	0.005	90	394117	100.0	102.7	
83 Pentachlorophenol	266	8.669	8.675	-0.006	94	277591	100.0	110.6	
84 Pentachloronitrobenzene	237	8.687	8.687	-0.001	88	97684	50.0	52.5	
72 n-Octadecane	57	8.757	8.757	0.000	92	569018	50.0	46.4	
* 85 Phenanthrene-d10	188	8.845	8.845	0.000	99	768798	40.0	40.0	
86 Phenanthrene	178	8.863	8.869	-0.006	98	1043167	50.0	47.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
87 Anthracene	178	8.916	8.916	0.000	98	1048193	50.0	46.0	
88 Carbazole	167	9.063	9.069	-0.006	96	938480	50.0	45.2	
89 Di-n-butyl phthalate	149	9.404	9.404	0.000	99	1164726	50.0	45.9	
90 Fluoranthene	202	9.986	9.992	-0.006	97	1078253	50.0	46.3	
91 Benzidine	184	10.110	10.116	-0.006	99	205160	50.0	16.1	
92 Pyrene	202	10.204	10.204	0.000	97	1094456	50.0	50.7	
93 Bisphenol-A	213	10.257	10.257	0.000	98	256863	25.0	31.4	
$ 94 Terphenyl-d14	244	10.357	10.363	-0.006	100	680386	50.0	45.0	
95 Butyl benzyl phthalate	149	10.875	10.881	-0.005	97	491275	50.0	52.0	
97 Carbamazepine	193	10.992	10.992	0.000	93	436095	50.0	53.4	
98 3,3'-Dichlorobenzidine	252	11.475	11.480	-0.005	100	275514	50.0	35.6	
99 Benzo[a]anthracene	228	11.498	11.486	0.000	100	945005	50.0	46.5	
* 100 Chrysene-d12	240	11.510	11.516	-0.006	99	655186	40.0	40.0	
101 Chrysene	228	11.545	11.545	0.000	98	879244	50.0	47.6	
102 Bis(2-ethylhexyl) phthalat	149	11.563	11.569	-0.006	88	767344	50.0	55.5	
103 Di-n-octyl phthalate	149	12.439	12.445	-0.006	97	1192514	50.0	49.4	
104 Benzo[b]fluoranthene	252	12.933	12.933	0.000	98	946865	50.0	49.0	
105 Benzo[k]fluoranthene	252	12.969	12.974	-0.005	99	934208	50.0	47.0	
106 Benzo[a]pyrene	252	13.398	13.398	0.000	96	897866	50.0	49.0	
* 107 Perylene-d12	264	13.480	13.486	-0.006	98	696578	40.0	40.0	
108 Indeno[1,2,3-cd]pyrene	276	15.139	15.133	0.000	98	924835	50.0	54.7	M
109 Dibenz(a,h)anthracene	278	15.180	15.179	-0.006	98	903267	50.0	53.7	
110 Benzo[g,h,i]perylene	276	15.610	15.615	-0.005	96	937753	50.0	50.4	
S 117 Total Cresols	1				0			87.8	
123 4,4'-DDD	235	7.757	7.692	0.065	55	5659		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
7 - Failed Limit of Detection

Review Flags

M - Manually Integrated
a - User Assigned ID

Reagents:

SM_ISTD_00142 Amount Added: 20.00 Units: uL Run Reagent

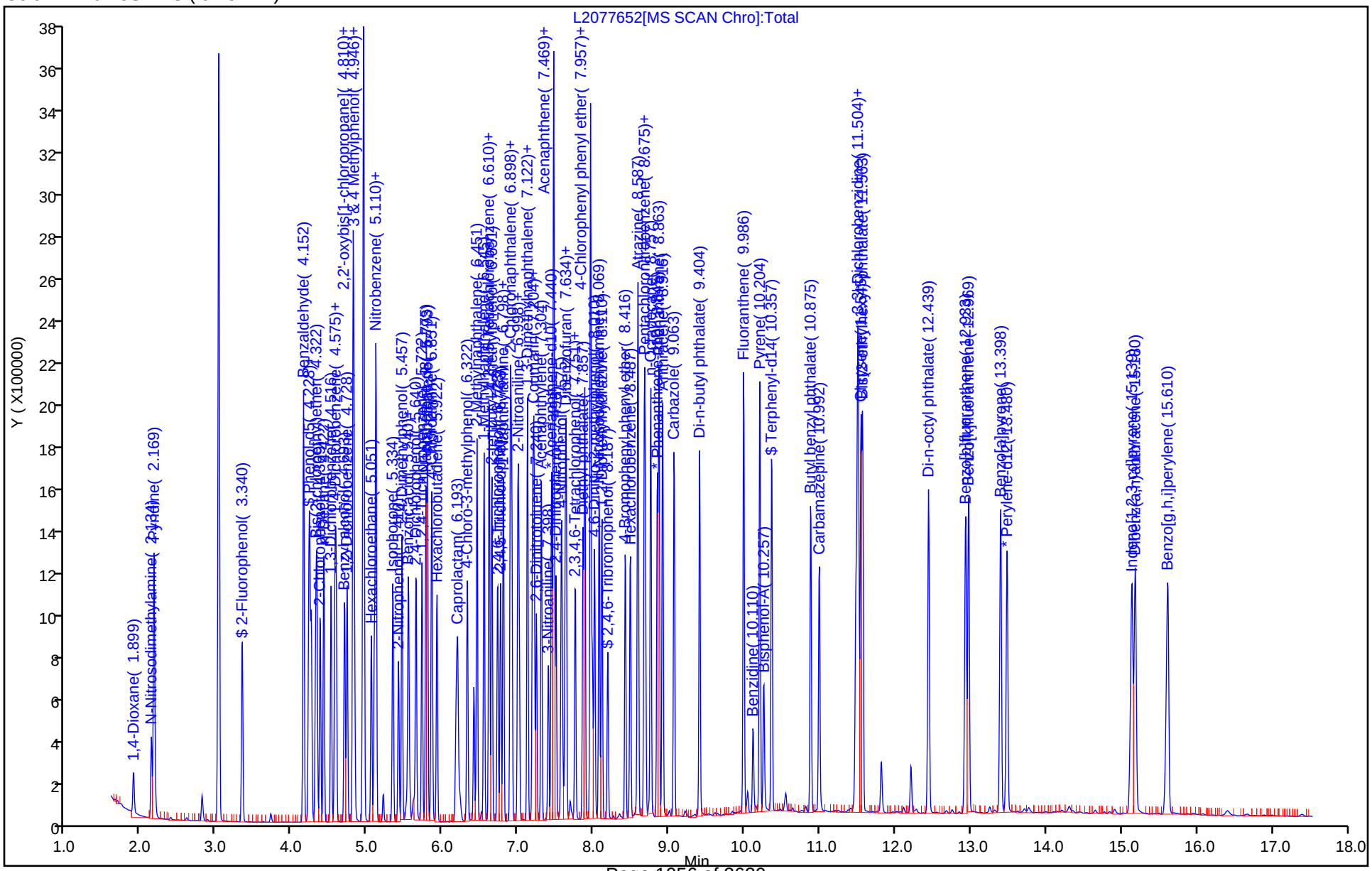
Report Date: 22-Mar-2018 15:50:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077652.d

Injection Date:	22-Mar-2018 11:53:30	Instrument ID:	CBNAMS12	Operator ID:	
Lims ID:	460-152022-E-1-C MSD			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

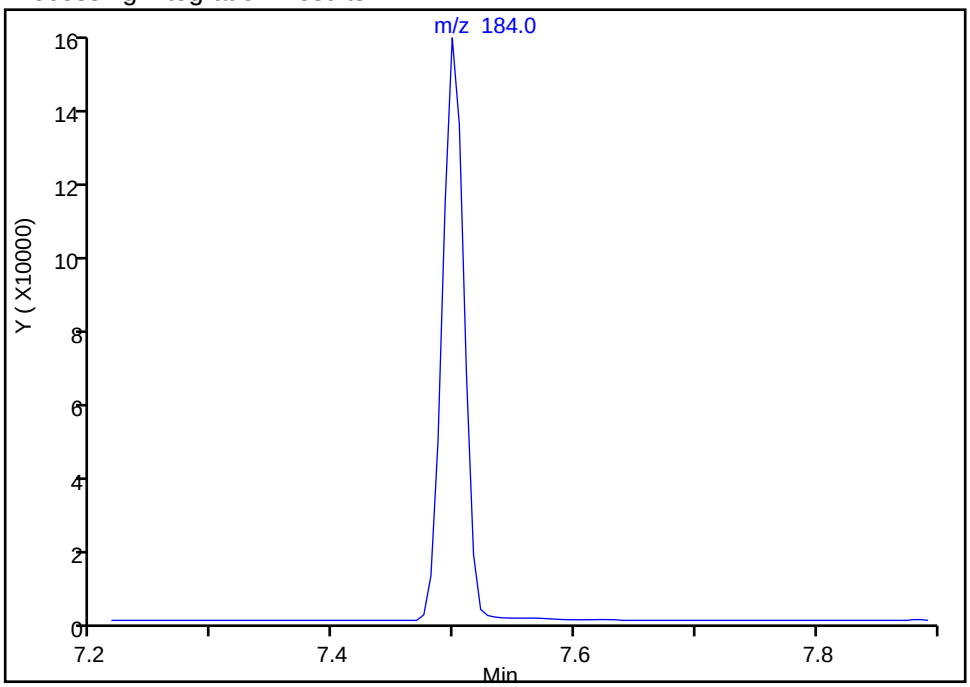
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077652.d				
Injection Date:	22-Mar-2018 11:53:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-C MSD				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

66 2,4-Dinitrophenol, CAS: 51-28-5

Signal: 1

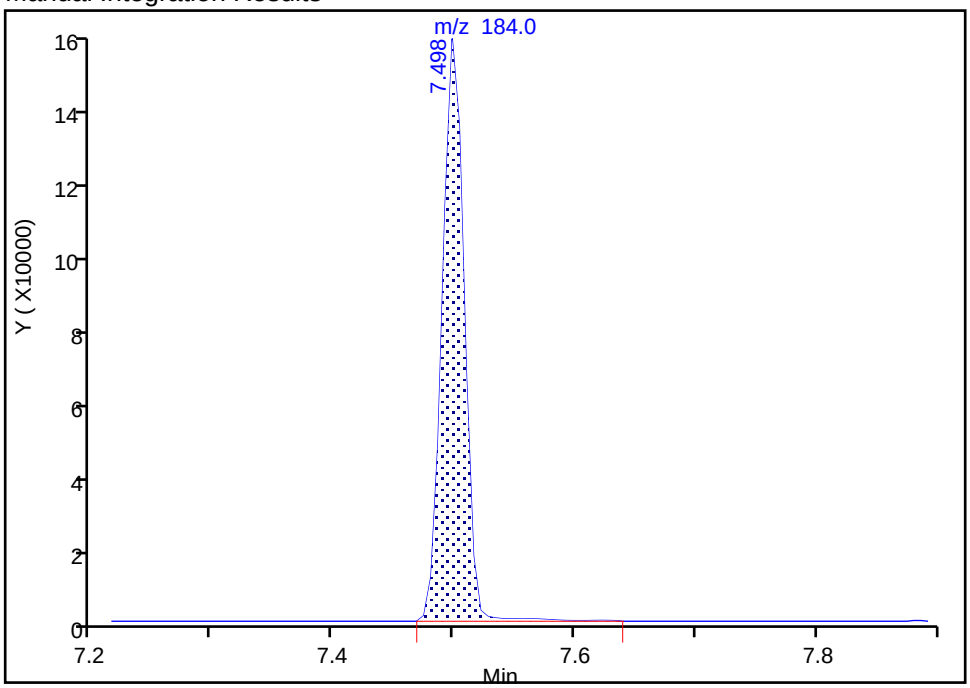
Not Detected
Expected RT: 7.50

Processing Integration Results



Manual Integration Results

RT: 7.50
Area: 189480
Amount: 107.8964
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:10:33
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

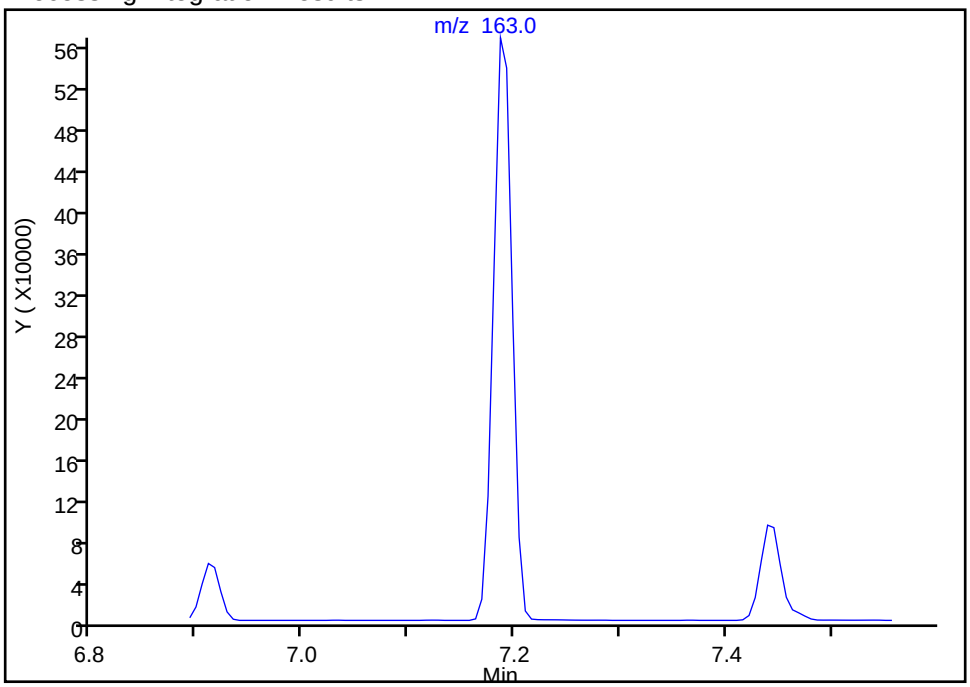
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077652.d				
Injection Date:	22-Mar-2018 11:53:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-C MSD				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

58 Dimethyl phthalate, CAS: 131-11-3

Signal: 1

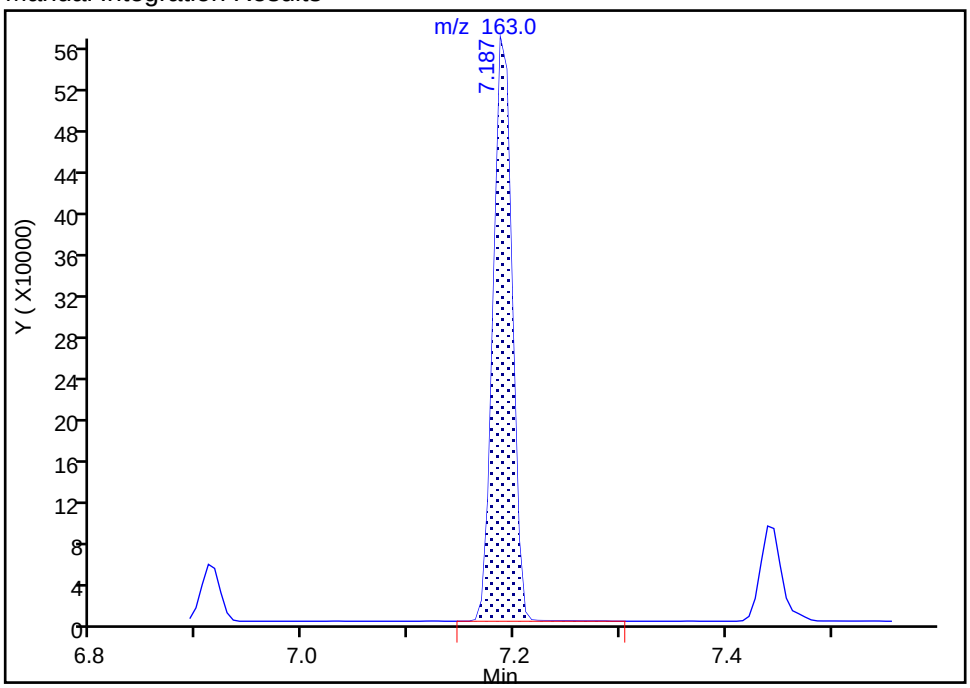
Not Detected
Expected RT: 7.19

Processing Integration Results



Manual Integration Results

RT: 7.19
Area: 703102
Amount: 45.398548
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:10:24
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

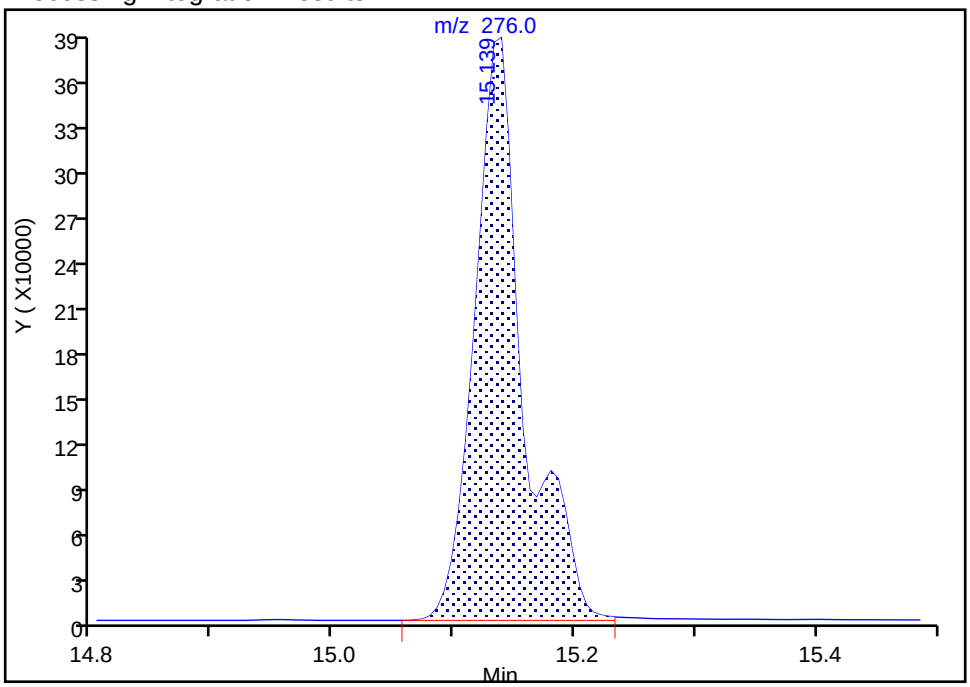
Data File:	\\ChromNA\Edison\ChromData\CBNAMS12\20180322-69122.b\L2077652.d				
Injection Date:	22-Mar-2018 11:53:30	Instrument ID:	CBNAMS12		
Lims ID:	460-152022-E-1-C MSD				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_12R_9	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

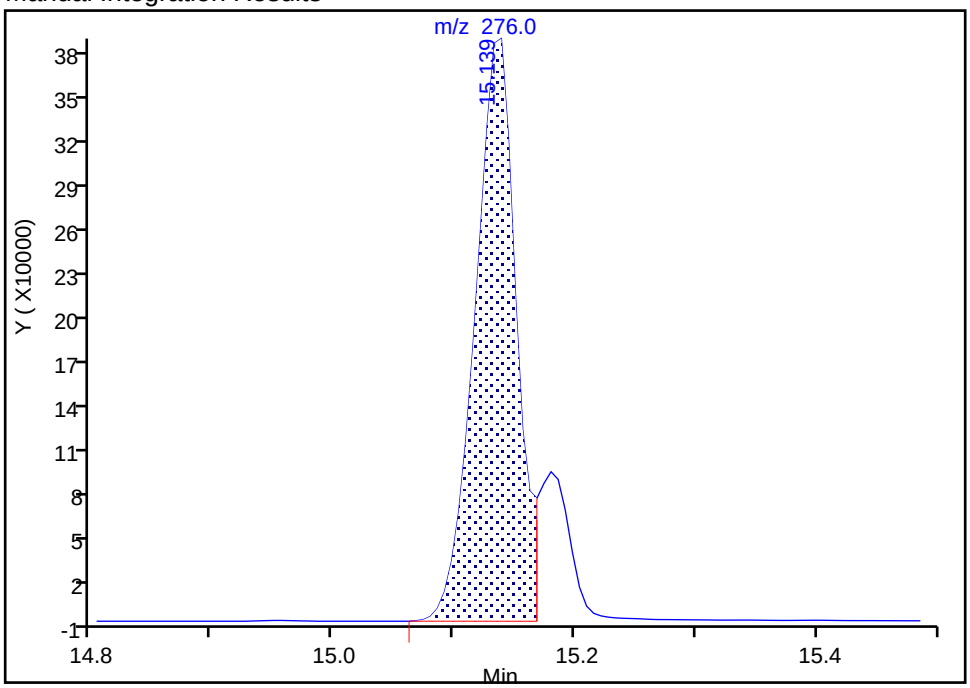
Processing Integration Results

RT: 15.14
Area: 1083398
Amount: 64.111721
Amount Units: ug/ml



Manual Integration Results

RT: 15.14
Area: 924835
Amount: 54.728515
Amount Units: ug/ml



Reviewer: croccom, 22-Mar-2018 14:09:57

Audit Action: Manually Integrated Audit Reason: Shouldering

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS12 Start Date: 03/15/2018 14:47

Analysis Batch Number: 503804 End Date: 03/15/2018 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-503804/1		03/15/2018 14:47	1	L2077525.d	Rtxi-5Sil MS 0.25(mm)
ICIS 460-503804/2		03/15/2018 15:03	1	L2077526.d	Rtxi-5Sil MS 0.25(mm)
STD120 460-503804/3 IC		03/15/2018 15:25	1	L2077527.d	Rtxi-5Sil MS 0.25(mm)
STD80 460-503804/4 IC		03/15/2018 15:48	1	L2077528.d	Rtxi-5Sil MS 0.25(mm)
STD20 460-503804/5 IC		03/15/2018 16:11	1	L2077529.d	Rtxi-5Sil MS 0.25(mm)
STD10 460-503804/6 IC		03/15/2018 16:34	1	L2077530.d	Rtxi-5Sil MS 0.25(mm)
STD5 460-503804/7 IC		03/15/2018 16:56	1	L2077531.d	Rtxi-5Sil MS 0.25(mm)
STD2 460-503804/8 IC		03/15/2018 17:19	1	L2077532.d	Rtxi-5Sil MS 0.25(mm)
STD1 460-503804/9 IC		03/15/2018 17:42	1	L2077533.d	Rtxi-5Sil MS 0.25(mm)
STD05 460-503804/10 IC		03/15/2018 18:04	1	L2077534.d	Rtxi-5Sil MS 0.25(mm)
STD50 460-503804/11 IC		03/15/2018 18:27	1	L2077535.d	Rtxi-5Sil MS 0.25(mm)
STD120 460-503804/12 IC		03/15/2018 18:49	1	L2077536.d	Rtxi-5Sil MS 0.25(mm)
STD80 460-503804/13 IC		03/15/2018 19:12	1	L2077537.d	Rtxi-5Sil MS 0.25(mm)
STD20 460-503804/14 IC		03/15/2018 19:35	1	L2077538.d	Rtxi-5Sil MS 0.25(mm)
STD10 460-503804/15 IC		03/15/2018 19:57	1	L2077539.d	Rtxi-5Sil MS 0.25(mm)
STD5 460-503804/16 IC		03/15/2018 20:20	1	L2077540.d	Rtxi-5Sil MS 0.25(mm)
STD2 460-503804/17 IC		03/15/2018 20:42	1	L2077541.d	Rtxi-5Sil MS 0.25(mm)
ICV 460-503804/18		03/15/2018 21:05	1	L2077542.d	Rtxi-5Sil MS 0.25(mm)
ICV 460-503804/19		03/15/2018 21:28	1	L2077543.d	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS12 Start Date: 03/22/2018 08:21

Analysis Batch Number: 505174 End Date: 03/22/2018 17:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-505174/1		03/22/2018 08:21	1	L2077643.d	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-505174/2		03/22/2018 08:43	1	L2077644.d	Rtxi-5Sil MS 0.25(mm)
CCV 460-505174/3		03/22/2018 09:13	1	L2077645.d	Rtxi-5Sil MS 0.25(mm)
LCS 460-505109/2-A		03/22/2018 10:00	1	L2077647.d	Rtxi-5Sil MS 0.25(mm)
LCS 460-505109/3-A		03/22/2018 10:22	1	L2077648.d	Rtxi-5Sil MS 0.25(mm)
MB 460-505109/1-A		03/22/2018 10:45	1	L2077649.d	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 11:07	1		Rtxi-5Sil MS 0.25(mm)
460-152022-E-1-B MS		03/22/2018 11:30	1	L2077651.d	Rtxi-5Sil MS 0.25(mm)
460-152022-E-1-C MSD		03/22/2018 11:53	1	L2077652.d	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 12:15	1		Rtxi-5Sil MS 0.25(mm)
460-152136-2		03/22/2018 12:38	1	L2077654.d	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 13:00	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 13:23	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 13:45	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 14:08	5		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 14:30	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 14:53	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 15:16	2		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 15:38	2		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 16:01	2		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 16:50	4		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/22/2018 17:21	10		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS18 Start Date: 02/27/2018 15:20

Analysis Batch Number: 500035 End Date: 02/27/2018 21:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-500035/1		02/27/2018 15:20	1	P00456A.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-500035/2		02/27/2018 15:38	1	P00457.D	Rtxi-5Sil MS 0.25(mm)
STD24 460-500035/3 IC		02/27/2018 16:01	1	P00458.D	Rtxi-5Sil MS 0.25(mm)
STD16 460-500035/4 IC		02/27/2018 16:25	1	P00459.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-500035/5 IC		02/27/2018 16:49	1	P00460.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-500035/6 IC		02/27/2018 17:12	1	P00461.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-500035/7 IC		02/27/2018 17:36	1	P00462.D	Rtxi-5Sil MS 0.25(mm)
STD02 460-500035/8 IC		02/27/2018 18:00	1	P00463.D	Rtxi-5Sil MS 0.25(mm)
STD01 460-500035/9 IC		02/27/2018 18:23	1	P00464.D	Rtxi-5Sil MS 0.25(mm)
STD10 460-500035/10 IC		02/27/2018 18:47	1	P00465.D	Rtxi-5Sil MS 0.25(mm)
STD24 460-500035/11 IC		02/27/2018 19:11	1	P00466.D	Rtxi-5Sil MS 0.25(mm)
STD16 460-500035/12 IC		02/27/2018 19:35	1	P00467.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-500035/13 IC		02/27/2018 19:59	1	P00468.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-500035/14 IC		02/27/2018 20:23	1	P00469.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-500035/15 IC		02/27/2018 20:47	1	P00470.D	Rtxi-5Sil MS 0.25(mm)
STD02 460-500035/16 IC		02/27/2018 21:11	1	P00471.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-500035/17		02/27/2018 21:34	1	P00472.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-500035/18		02/27/2018 21:58	1	P00473.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS18 Start Date: 03/19/2018 20:14

Analysis Batch Number: 504609 End Date: 03/20/2018 08:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-504609/1		03/19/2018 20:14	1	P00820C.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-504609/2		03/19/2018 20:34	1	P00821.D	Rtxi-5Sil MS 0.25(mm)
CCV 460-504609/3		03/19/2018 21:01	1	P00822.D	Rtxi-5Sil MS 0.25(mm)
MB 460-504508/1-A		03/19/2018 21:27	1	P00823.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-504508/2-A		03/19/2018 21:48	1	P00824.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-504508/3-A		03/19/2018 22:09	1	P00825.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-504508/4-A		03/19/2018 22:30	1	P00826.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-504508/5-A		03/19/2018 22:51	1	P00827.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 01:28	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 01:51	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 02:14	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 02:37	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 03:01	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 03:25	1		Rtxi-5Sil MS 0.25(mm)
460-152136-1		03/20/2018 03:50	1	P00840.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 04:15	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 04:39	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 05:05	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 05:30	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 05:56	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 06:22	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 06:48	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 07:14	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 07:41	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 08:08	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504508 Batch Start Date: 03/19/18 09:11 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_Benzald_sp 00005
MB 460-504508/1		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-504508/2		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCSD 460-504508/3		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-504508/4		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
LCSD 460-504508/5		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
460-152136-H-1	Recharge Basin	3510C, 8270D	T	240 mL	2 mL	6 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNA SPIK 00025	OP_BNASurroga 00014				
MB 460-504508/1		3510C, 8270D			200 uL				
LCS 460-504508/2		3510C, 8270D		200 uL	200 uL				
LCSD 460-504508/3		3510C, 8270D		200 uL	200 uL				
LCS 460-504508/4		3510C, 8270D			200 uL				
LCSD 460-504508/5		3510C, 8270D			200 uL				
460-152136-H-1	Recharge Basin	3510C, 8270D	T		200 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504508 Batch Start Date: 03/19/18 09:11 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2414
Batch Comment	3510C LVI 8270D
Analyst ID - Concentration	SZ
Equipment ID - Concentration 1	41888
Analyst ID - Extraction	SZ
Na2SO4 ID	171698
Pipette/Syringe/Dispenser ID	BNA
Prep Solvent ID	Methylene Chloride / 192637
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	SZ
Analyst ID - Spike Witness Analyst	AM
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505109 Batch Start Date: 03/21/18 21:20 Batch Analyst: Alinea, Archilles R

Batch Method: 3546 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP_Benzald_sp 00005	OP_BNA SPIK 00025	OP_BNASurroga 00014	
MB 460-505109/1		3546, 8270D		+15.0000 g	1 mL			500 uL	
LCS 460-505109/2		3546, 8270D		+15.0000 g	1 mL		500 uL	500 uL	
LCS 460-505109/3		3546, 8270D		+15.0000 g	1 mL	50 uL		500 uL	
460-152022-E-1 MS		3546, 8270D	T	+15.0119 g	1 mL	50 uL	500 uL	500 uL	
460-152022-E-1 MSD		3546, 8270D	T	+15.0044 g	1 mL	50 uL	500 uL	500 uL	
460-152136-E-2	Ash Pit	3546, 8270D	T	+15.0071 g	1 mL			500 uL	

Batch Notes	
Balance ID	A1
Batch Comment	BNA Soil
Blank Matrix ID	186856
Analyst ID - Concentration	archie
Concentration 1 Corrected Temperature	37 Degrees C
Analyst ID - Extraction	archie
Method/Fraction	8270
Microwave Oven ID	MD1952/4965/5095
Na2SO4 ID	176006
Prep Solvent ID	MeCl2 / 192637 Acetone / 133166
Analyst ID - Spike Analyst	archie
Concentration 1 Uncorrected Temperature	37 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D_SIM

Semivolatile Organic Compounds (GC/MS SIM)

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U59656.D

Lab ID: LCS 460-504508/6-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.800	0.880	110	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U59657.D

Lab ID: LCSD 460-504508/7-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	0.800	0.990	124	12	30	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: U59655.D Lab Sample ID: MB 460-504508/1-A

Matrix: Water Date Extracted: 03/19/2018 09:12

Instrument ID: CBNAMS4 Date Analyzed: 03/20/2018 12:19

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-504508/6-A	U59656.D	03/20/2018 12:40
	LCSD 460-504508/7-A	U59657.D	03/20/2018 13:02
Recharge Basin	460-152136-1	U59662.D	03/20/2018 14:52

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: U59526.D DFTPP Injection Date: 03/06/2018

Instrument ID: CBNAMS4 DFTPP Injection Time: 11:42

Analysis Batch No.: 501678

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	46.0	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	60.4	
70	Less than 2.0 % of mass 69	0.4	(0.7) 1
127	40.0 - 60.0 % of mass 198	44.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	2.3	
441	Present but less than mass 443	13.3	(75.6) 3
442	Greater than 40.0 % of mass 198	87.6	
443	17.0 - 23.0 % of mass 442	17.5	(20.0) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD6 460-501678/3	U59528.D	03/06/2018	12:27
	STD5 460-501678/4	U59529.D	03/06/2018	12:49
	STD4 460-501678/5	U59530.D	03/06/2018	13:10
	STD2 460-501678/6	U59531.D	03/06/2018	13:32
	STD1 460-501678/7	U59532.D	03/06/2018	13:54
	ICIS 460-501678/9	U59534.D	03/06/2018	15:25
	ICV 460-501678/8	U59535.D	03/06/2018	16:45

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab File ID: U59652.D DFTPP Injection Date: 03/20/2018

Instrument ID: CBNAMS4 DFTPP Injection Time: 10:32

Analysis Batch No.: 504754

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	51.2	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	76.6	
70	Less than 2.0 % of mass 69	0.1	(0.1) 1
127	40.0 - 60.0 % of mass 198	44.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	5.6	
275	10.0 - 30.0 % of mass 198	24.7	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	21.3	(87.0) 3
442	Greater than 40.0 % of mass 198	129.1	
443	17.0 - 23.0 % of mass 442	24.5	(18.9) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-504754/2	U59653.D	03/20/2018	11:29
	MB 460-504508/1-A	U59655.D	03/20/2018	12:19
	LCS 460-504508/6-A	U59656.D	03/20/2018	12:40
	LCSD 460-504508/7-A	U59657.D	03/20/2018	13:02
Recharge Basin	460-152136-1	U59662.D	03/20/2018	14:52

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-501678/9 Date Analyzed: 03/06/2018 15:25

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): U59534.D Heated Purge: (Y/N) N

Calibration ID: 66855

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		28634	4.68	97241	5.95	50352	7.69
UPPER LIMIT		57268	5.18	194482	6.45	100704	8.19
LOWER LIMIT		14317	4.18	48621	5.45	25176	7.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-501678/8		30549	4.69	102977	5.95	57778	7.69

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: ICIS 460-501678/9 Date Analyzed: 03/06/2018 15:25

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): U59534.D Heated Purge: (Y/N) N

Calibration ID: 66855

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		69486	9.15	52859	11.96	31415	13.94
UPPER LIMIT		138972	9.65	105718	12.46	62830	14.44
LOWER LIMIT		34743	8.65	26430	11.46	15708	13.44
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-501678/8		80713	9.16	51172	11.97	30778	13.95

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504754/2 Date Analyzed: 03/20/2018 11:29

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): U59653.D Heated Purge: (Y/N) N

Calibration ID: 66855

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		30716	4.34	103406	5.61	49485	7.36
UPPER LIMIT		61432	4.84	206812	6.11	98970	7.86
LOWER LIMIT		15358	3.84	51703	5.11	24743	6.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504508/1-A		27285	4.35	89928	5.61	35927	7.36
LCS 460-504508/6-A		26555	4.34	96361	5.62	41508	7.35
LCSD 460-504508/7-A		27046	4.35	91180	5.62	45510	7.35
460-152136-1	Recharge Basin	27279	4.35	96817	5.61	38970	7.36

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-504754/2 Date Analyzed: 03/20/2018 11:29

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): U59653.D Heated Purge: (Y/N) N

Calibration ID: 66855

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84672	8.81	43997	11.54	27411	13.44
UPPER LIMIT		169344	9.31	87994	12.04	54822	13.94
LOWER LIMIT		42336	8.31	21999	11.04	13706	12.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504508/1-A		69097	8.81	37786	11.54	26540	13.44
LCS 460-504508/6-A		65618	8.80	45378	11.54	34970	13.44
LCSD 460-504508/7-A		73896	8.80	46120	11.55	34473	13.44
460-152136-1	Recharge Basin	82581	8.81	42961	11.55	33820	13.44

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: U59662.D

Analysis Method: 8270D SIM | Date Collected: 03/16/2018 11:00

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 240(mL) | Date Analyzed: 03/20/2018 14:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504754 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.046	U	0.42	0.046

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59662.D
Lims ID: 460-152136-H-1-A
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 20-Mar-2018 14:52:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-011
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:31:31 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 15:30:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 6 1,4-Dichlorobenzene-d4	152	4.348	4.344	0.004	99	27279	0.2000	
* 9 Naphthalene-d8	136	5.614	5.614	0.000	100	96817	0.2000	
* 13 Acenaphthene-d10	164	7.360	7.355	0.005	99	38970	0.2000	
* 20 Phenanthrene-d10	188	8.810	8.807	0.003	100	82581	0.2000	
* 27 Chrysene-d12	240	11.549	11.540	0.009	89	42961	0.2000	
* 32 Perylene-d12	264	13.436	13.441	-0.005	99	33820	0.2000	

Reagents:

SM_SIMISTDLVI_00022 Amount Added: 20.00 Units: uL Run Reagent

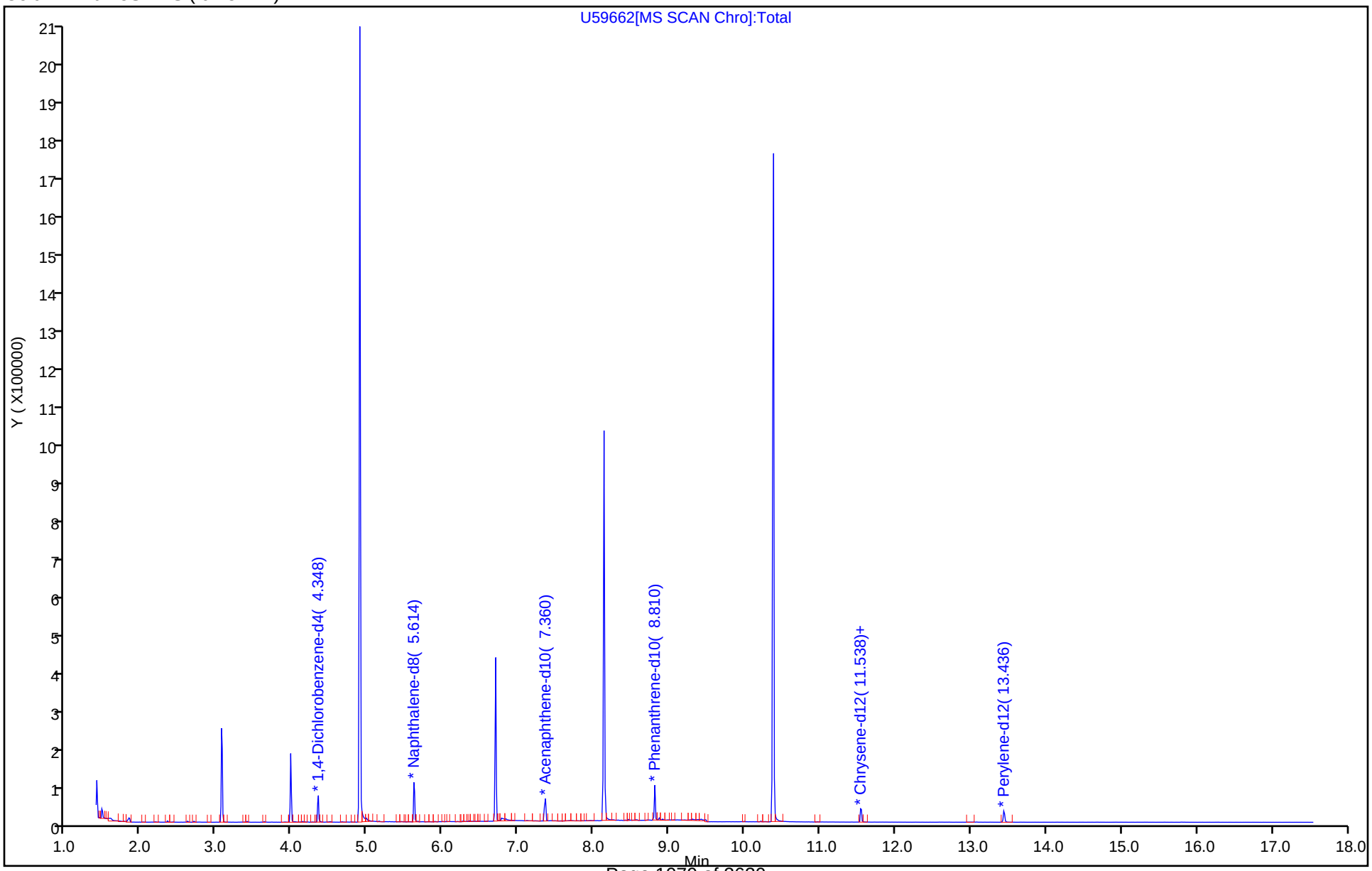
Report Date: 20-Mar-2018 15:31:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59662.D

Injection Date:	20-Mar-2018 14:52:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	460-152136-H-1-A	Lab Sample ID:	460-152136-1	Worklist Smp#:	11
Client ID:	Recharge Basin				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501678

SDG No.:

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2018 12:27 Calibration End Date: 03/06/2018 15:25 Calibration ID: 66855

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-501678/7	U59532.D
Level 2	STD2 460-501678/6	U59531.D
Level 3	ICIS 460-501678/9	U59534.D
Level 4	STD4 460-501678/5	U59530.D
Level 5	STD5 460-501678/4	U59529.D
Level 6	STD6 460-501678/3	U59528.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6374 0.5125	0.6203	0.5809	0.5555	0.5421	Ave		0.5748			0.0100	8.3		20.0			
N-Nitrosodimethylamine	0.6410 0.6785	0.4895	0.8336	0.6625	0.7468	Ave		0.6753			0.0100	17.0		20.0			
Bis(2-chloroethyl)ether	1.7174 1.3193	1.4899	1.4263	1.5295	1.3732	Ave		1.4759			0.7000	9.5		20.0			
Naphthalene	1.6321 0.8958	1.3677	1.1035	0.9336	0.9476	Lin2	0.0038	0.9164			0.7000				0.9970		0.9900
Acenaphthylene	2.0174 1.8937	1.9410	2.0257	1.9309	1.7394	Ave		1.9247			0.9000	5.4		20.0			
Acenaphthene	1.2225 1.1988	1.1634	1.3261	1.1677	1.1656	Ave		1.2073			0.9000	5.2		20.0			
Fluorene	1.4350 1.1811	1.4502	1.2625	1.5085	1.4164	Ave		1.3756			0.9000	9.1		20.0			
4,6-Dinitro-2-methylphenol	0.0154 0.0879	0.0189	0.0338	0.0499	0.0793	Qua2	-0.002	0.0314	0.0318260						6.7000		
Hexachlorobenzene	0.1664 0.1795	0.1769	0.1730	0.1910	0.1864	Ave		0.1789			0.1000	5.0		20.0			
Pentachlorophenol	0.0425 0.1127	0.0377	0.0449	0.0555	0.0640	QuaF		0.0348	0.0777657	*	0.0500				1.0000		0.9900
Phenanthrene	1.0068 1.0434	1.0018	1.2831	0.9506	1.2455	Ave		1.0885			0.7000	12.8		20.0			
Anthracene	1.0557 0.9901	1.1417	1.1738	1.0653	1.0909	Ave		1.0863			0.7000	6.0		20.0			
Fluoranthene	0.8505 0.8609	0.9082	1.0326	0.9029	1.0576	Ave		0.9355			0.6000	9.4		20.0			
Pyrene	1.3880 1.3146	1.3348	1.4673	1.3146	1.3932	Ave		1.3688			0.6000	4.3		20.0			
Benzo[a]anthracene	1.0962 0.9839	1.0255	0.9627	0.9765	1.0713	Ave		1.0194			0.8000	5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501678

SDG No.:

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2018 12:27 Calibration End Date: 03/06/2018 15:25 Calibration ID: 66855

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chrysene	0.9415 0.9749	1.0029	1.0208	0.9706	1.0515	Ave		0.9937			0.7000	4.0		20.0			
Benzo[b]fluoranthene	1.4249 1.3801	1.3503	1.2462	1.3167	1.4200	Ave		1.3564			0.7000	5.0		20.0			
Benzo[k]fluoranthene	1.1647 1.2600	1.3284	1.5149	1.3760	1.4387	Ave		1.3471			0.7000	9.3		20.0			
Benzo[a]pyrene	0.9937 1.0325	0.9991	1.0972	1.0719	1.1306	Ave		1.0542			0.7000	5.2		20.0			
Indeno[1,2,3-cd]pyrene	0.7157 0.7573	0.7068	0.6704	0.7339	0.7589	Ave		0.7238			0.5000	4.7		20.0			
Dibenz(a,h)anthracene	0.6901 0.7777	0.7147	0.7286	0.7514	0.8046	Ave		0.7445			0.4000	5.7		20.0			
Benzo[g,h,i]perylene	0.7501 0.7667	0.7827	0.8423	0.7420	0.7974	Ave		0.7802			0.5000	4.7		20.0			
Nitrobenzene-d5	0.3782 0.2974	0.3907	0.3764	0.3669	0.3726	Ave		0.3637			0.0100	9.2		20.0			
2-Fluorobiphenyl	1.6600 0.8764	1.5162	1.4562	1.4027	1.1291	Qua	0.0818	1.1808	-0.031263		0.0100				1.0000		0.9900
2,4,6-Tribromophenol	0.0993 0.1002	0.1101	0.1337	0.1120	0.0982	Ave		0.1089			0.0100	12.4		20.0			
Terphenyl-d14	1.0710 0.6650	1.0237	0.9786	0.9057	0.9244	Ave		0.9281			0.0100	15.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501678

SDG No.:

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2018 12:27 Calibration End Date: 03/06/2018 15:25 Calibration ID: 66855

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-501678/7	U59532.D
Level 2	STD2 460-501678/6	U59531.D
Level 3	ICIS 460-501678/9	U59534.D
Level 4	STD4 460-501678/5	U59530.D
Level 5	STD5 460-501678/4	U59529.D
Level 6	STD6 460-501678/3	U59528.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	3578 135990	8660	16633	28980	62317	0.0400 2.00	0.100	0.200	0.400	0.800
N-Nitrosodimethylamine	DCBd 4	Ave	1799 90019	3417	11935	17282	42926	0.0200 1.00	0.0500	0.100	0.200	0.400
Bis(2-chloroethyl)ether	DCBd 4	Ave	482 175031	1040	4084	39898	78927	0.00200 1.00	0.00500	0.0200	0.200	0.400
Naphthalene	NPT	Lin2	3928 168718	6665	10731	44017	95550	0.00500 0.400	0.0100	0.0200	0.100	0.200
Acenaphthylene	ANT	Ave	2383 181470	4635	10200	44527	92620	0.00500 0.400	0.0100	0.0200	0.100	0.200
Acenaphthene	ANT	Ave	1444 114882	2778	6677	26927	62065	0.00500 0.400	0.0100	0.0200	0.100	0.200
Fluorene	ANT	Ave	1695 113184	3463	6357	34786	75418	0.00500 0.400	0.0100	0.0200	0.100	0.200
4,6-Dinitro-2-methylphenol	PHN	Qua2	611 58854	1472	4697	14842	28350	0.100 2.00	0.200	0.400	0.800	1.00
Hexachlorobenzene	PHN	Ave	132 60111	345	1202	14200	26668	0.00200 1.00	0.00500	0.0200	0.200	0.400
Pentachlorophenol	PHN	QuaF	337 37737	736	1560	4127	9160	0.0200 1.00	0.0500	0.100	0.200	0.400
Phenanthrene	PHN	Ave	1997 139767	3908	8916	35345	89085	0.00500 0.400	0.0100	0.0200	0.100	0.200
Anthracene	PHN	Ave	2094 132624	4454	8156	39611	78024	0.00500 0.400	0.0100	0.0200	0.100	0.200
Fluoranthene	PHN	Ave	1687 115318	3543	7175	33570	75645	0.00500 0.400	0.0100	0.0200	0.100	0.200
Pyrene	CRY	Ave	1741 119861	3535	7756	34234	74376	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[a]anthracene	CRY	Ave	1375 89706	2716	5089	25430	57190	0.00500 0.400	0.0100	0.0200	0.100	0.200
Chrysene	CRY	Ave	1181 88884	2656	5396	25276	56131	0.00500 0.400	0.0100	0.0200	0.100	0.200

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

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 501678

SDG No.:

Instrument ID: CBNAMS4 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2018 12:27 Calibration End Date: 03/06/2018 15:25 Calibration ID: 66855

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[b]fluoranthene	PRY	Ave	1117 89383	2222	3915	21703	49346	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[k]fluoranthene	PRY	Ave	913 81604	2186	4759	22680	49996	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[a]pyrene	PRY	Ave	779 66872	1644	3447	17668	39290	0.00500 0.400	0.0100	0.0200	0.100	0.200
Indeno[1,2,3-cd]pyrene	PRY	Ave	561 49048	1163	2106	12097	26374	0.00500 0.400	0.0100	0.0200	0.100	0.200
Dibenz(a,h)anthracene	PRY	Ave	541 50365	1176	2289	12386	27962	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[g,h,i]perylene	PRY	Ave	588 49657	1288	2646	12230	27712	0.00500 0.400	0.0100	0.0200	0.100	0.200
Nitrobenzene-d5	NPT	Ave	18206 1400442	38073	73207	138396	187836	0.100 10.0	0.200	0.400	0.800	1.00
2-Fluorobiphenyl	ANT	Qua	39215 2099573	72412	146650	258766	300618	0.100 10.0	0.200	0.400	0.800	1.00
2,4,6-Tribromophenol	ANT	Ave	2345 240039	5257	13462	20661	26139	0.100 10.0	0.200	0.400	0.800	1.00
Terphenyl-d14	CRY	Ave	26867 1515795	54225	103456	188691	246738	0.100 10.0	0.200	0.400	0.800	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59528.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Mar-2018 12:27:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-003
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:31 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: johnstonm1 Date: 06-Mar-2018 13:08:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.957	1.996	-0.039	94	135990	2.00	1.78	
2 N-Nitrosodimethylamine	74	2.201	2.224	-0.023	91	90019	1.00	1.00	
3 Bis(2-chloroethyl)ether	93	4.404	4.404	0.000	82	175031	1.00	0.8939	
* 6 1,4-Dichlorobenzene-d4	152	4.678	4.680	-0.002	100	26534	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.227	5.221	0.006	100	1400442	10.0	8.18	
* 9 Naphthalene-d8	136	5.952	5.946	0.006	100	94173	0.2000	0.2000	
10 Naphthalene	128	5.971	5.974	-0.003	100	168718	0.4000	0.3869	
$ 11 2-Fluorobiphenyl	172	7.030	7.019	0.011	97	2099573	10.0	10.0	
12 Acenaphthylene	152	7.543	7.545	-0.002	99	181470	0.4000	0.3935	
* 13 Acenaphthene-d10	164	7.690	7.692	-0.002	98	47915	0.2000	0.2000	
14 Acenaphthene	154	7.720	7.720	0.000	95	114882	0.4000	0.3972	
15 Fluorene	166	8.232	8.232	0.000	97	113184	0.4000	0.3434	
16 4,6-Dinitro-2-methylphenol	198	8.276	8.276	0.000	96	58854	2.00	1.92	
$ 17 2,4,6-Tribromophenol	330	8.466	8.468	-0.002	94	240039	10.0	9.20	
18 Hexachlorobenzene	284	8.775	8.774	0.001	87	60111	1.00	1.00	
19 Pentachlorophenol	266	8.965	8.979	-0.014	93	37737	1.00	1.00	
* 20 Phenanthrene-d10	188	9.153	9.153	0.000	100	66976	0.2000	0.2000	
21 Phenanthrene	178	9.168	9.168	0.000	38	139767	0.4000	0.3834	
22 Anthracene	178	9.226	9.227	-0.001	99	132624	0.4000	0.3646	
23 Fluoranthene	202	10.338	10.336	0.002	99	115318	0.4000	0.3681	
24 Pyrene	202	10.573	10.571	0.002	96	119861	0.4000	0.3842	
$ 25 Terphenyl-d14	244	10.729	10.727	0.002	99	1515795	10.0	7.17	
26 Benzo[a]anthracene	228	11.942	11.947	-0.005	80	89706	0.4000	0.3861	
* 27 Chrysene-d12	240	11.964	11.958	0.006	100	45587	0.2000	0.2000	
28 Chrysene	228	11.997	11.991	0.006	100	88884	0.4000	0.3924	
29 Benzo[b]fluoranthene	252	13.398	13.403	-0.005	100	89383	0.4000	0.4070	
30 Benzo[k]fluoranthene	252	13.431	13.436	-0.005	99	81604	0.4000	0.3741	
31 Benzo[a]pyrene	252	13.846	13.851	-0.005	100	66872	0.4000	0.3918	
* 32 Perylene-d12	264	13.935	13.940	-0.005	100	32382	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.544	15.558	-0.014	97	49048	0.4000	0.4185	M
34 Dibenz(a,h)anthracene	278	15.589	15.591	-0.002	93	50365	0.4000	0.4178	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.004	16.006	-0.002	99	49657	0.4000	0.3931	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL6_00008 Amount Added: 1.00 Units: mL

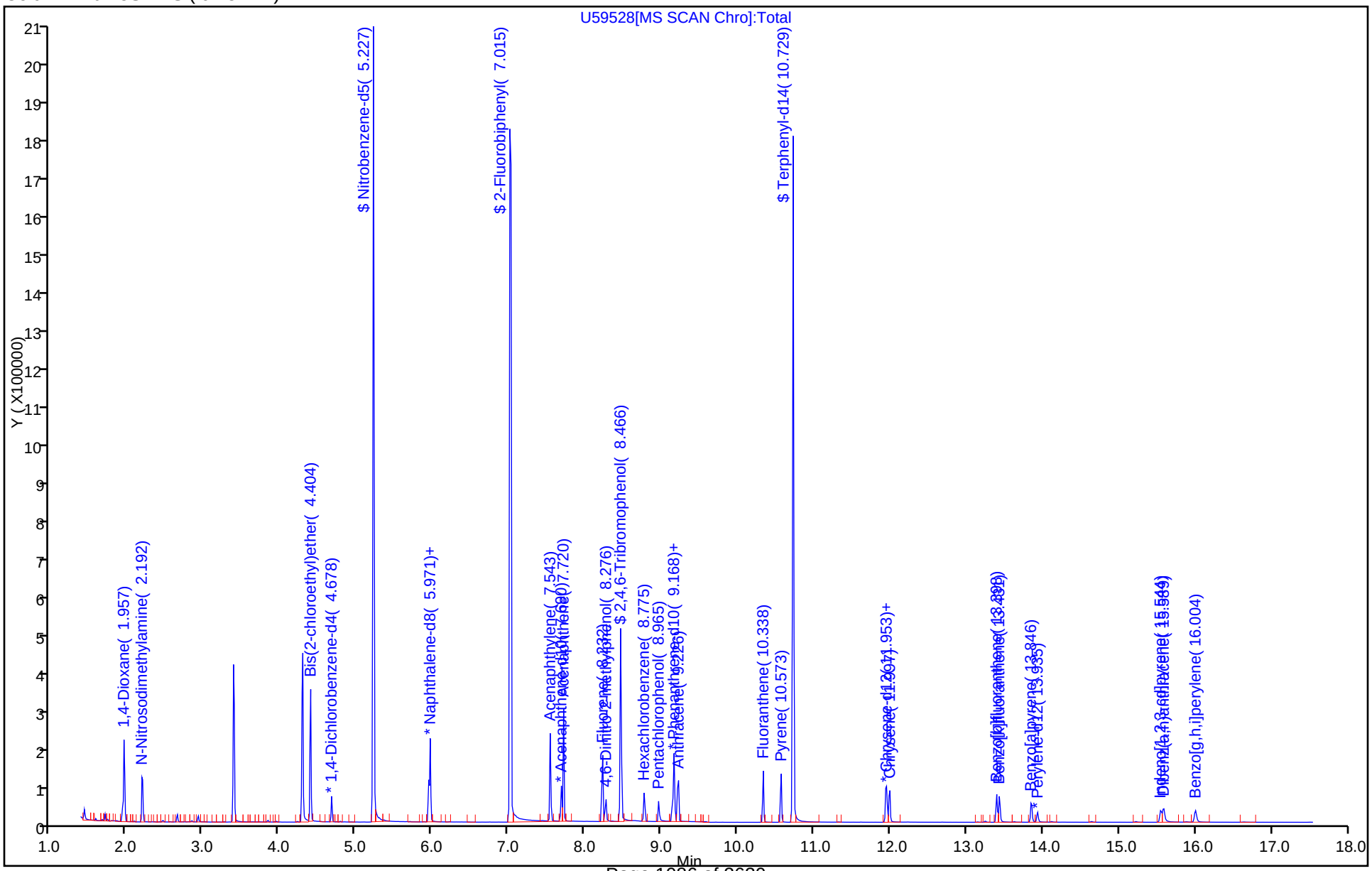
Report Date: 06-Mar-2018 18:55:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59528.D

Injection Date:	06-Mar-2018 12:27:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	std6			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

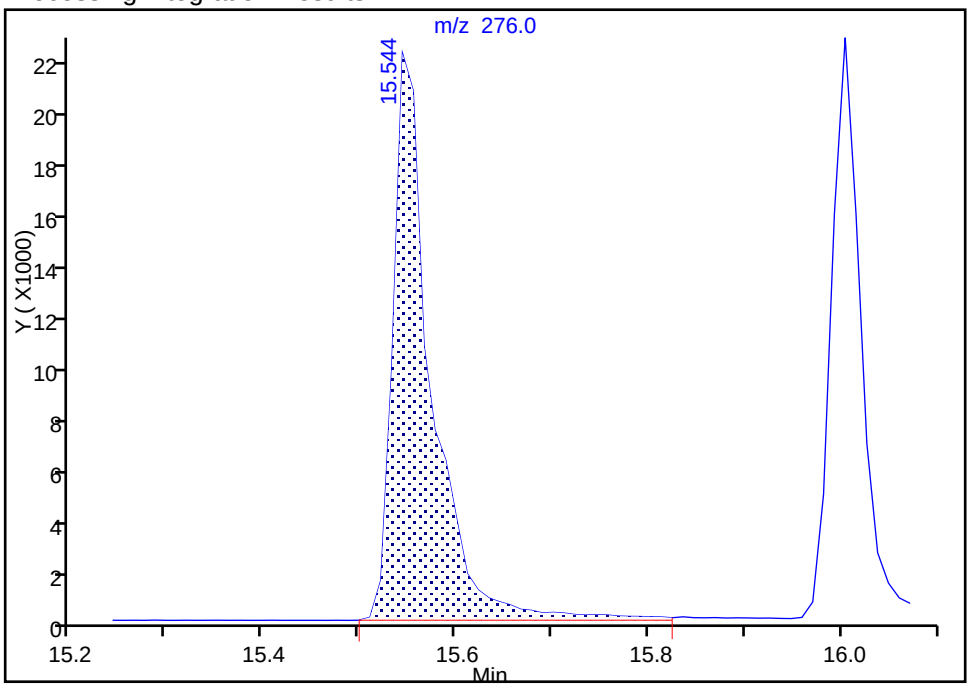
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59528.D				
Injection Date:	06-Mar-2018 12:27:30	Instrument ID:	CBNAMS4		
Lims ID:	std6				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

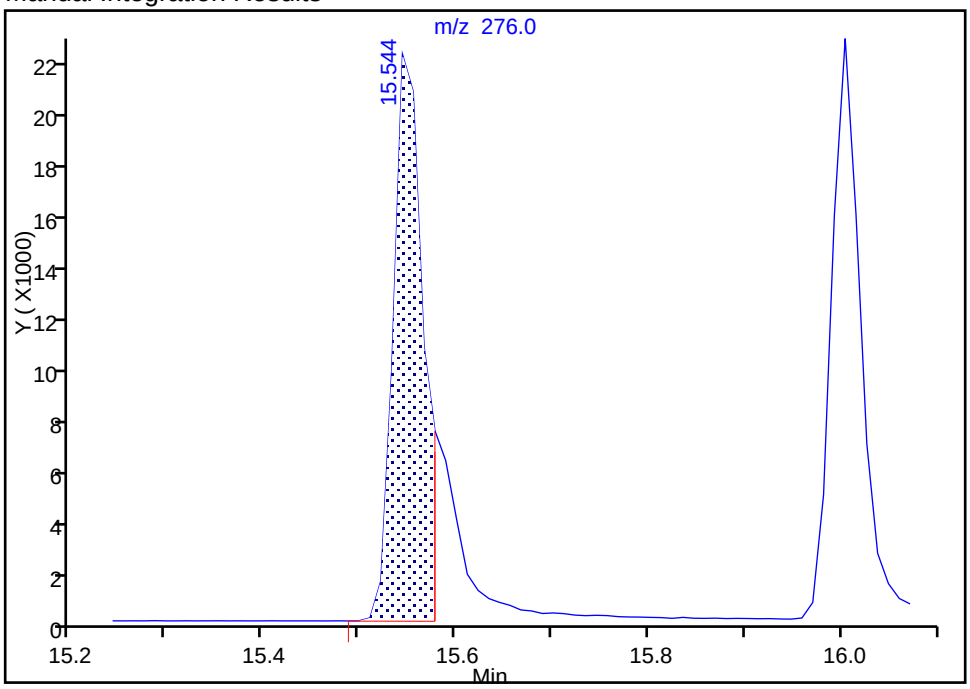
Processing Integration Results

RT: 15.54
Area: 61502
Amount: 0.421766
Amount Units: ug/ml



Manual Integration Results

RT: 15.54
Area: 49048
Amount: 0.418516
Amount Units: ug/ml



Reviewer: johnstonm1, 06-Mar-2018 13:08:10

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59529.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Mar-2018 12:49:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-004
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:34 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: johnstonm1 Date: 06-Mar-2018 13:09:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.984	1.996	-0.012	93	62317	0.8000	0.7545	
2 N-Nitrosodimethylamine	74	2.211	2.224	-0.013	98	42926	0.4000	0.4423	
3 Bis(2-chloroethyl)ether	93	4.403	4.404	-0.001	81	78927	0.4000	0.3722	
* 6 1,4-Dichlorobenzene-d4	152	4.678	4.680	-0.002	100	28739	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.226	5.221	0.005	96	187836	1.00	1.02	
* 9 Naphthalene-d8	136	5.953	5.946	0.007	100	100832	0.2000	0.2000	
10 Naphthalene	128	5.972	5.974	-0.002	100	95550	0.2000	0.2027	
$ 11 2-Fluorobiphenyl	172	7.024	7.019	0.005	96	300618	1.00	0.9088	
12 Acenaphthylene	152	7.539	7.545	-0.006	100	92620	0.2000	0.1807	
* 13 Acenaphthene-d10	164	7.684	7.692	-0.008	100	53247	0.2000	0.2000	
14 Acenaphthene	154	7.713	7.720	-0.007	99	62065	0.2000	0.1931	
15 Fluorene	166	8.228	8.232	-0.004	98	75418	0.2000	0.2059	
16 4,6-Dinitro-2-methylphenol	198	8.272	8.276	-0.004	97	28350	1.00	1.18	
$ 17 2,4,6-Tribromophenol	330	8.463	8.468	-0.005	94	26139	1.00	0.9016	
18 Hexachlorobenzene	284	8.785	8.774	0.011	83	26668	0.4000	0.4169	
19 Pentachlorophenol	266	8.976	8.979	-0.003	97	9160	0.4000	0.3921	
* 20 Phenanthrene-d10	188	9.153	9.153	0.000	100	71524	0.2000	0.2000	
21 Phenanthrene	178	9.167	9.168	-0.001	38	89085	0.2000	0.2288	
22 Anthracene	178	9.211	9.227	-0.016	96	78024	0.2000	0.2009	
23 Fluoranthene	202	10.338	10.336	0.002	100	75645	0.2000	0.2261	
24 Pyrene	202	10.574	10.571	0.003	94	74376	0.2000	0.2036	
$ 25 Terphenyl-d14	244	10.719	10.727	-0.008	98	246738	1.00	1.00	
26 Benzo[a]anthracene	228	11.949	11.947	0.002	94	57190	0.2000	0.2102	
* 27 Chrysene-d12	240	11.960	11.958	0.002	100	53384	0.2000	0.2000	
28 Chrysene	228	11.994	11.991	0.003	100	56131	0.2000	0.2116	
29 Benzo[b]fluoranthene	252	13.392	13.403	-0.011	100	49346	0.2000	0.2094	
30 Benzo[k]fluoranthene	252	13.426	13.436	-0.010	100	49996	0.2000	0.2136	
31 Benzo[a]pyrene	252	13.853	13.851	0.002	100	39290	0.2000	0.2145	
* 32 Perylene-d12	264	13.932	13.940	-0.008	100	34751	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.540	15.558	-0.018	95	26374	0.2000	0.2097	M
34 Dibenz(a,h)anthracene	278	15.585	15.591	-0.006	94	27962	0.2000	0.2161	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.001	16.006	-0.005	98	27712	0.2000	0.2044	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL5_00008 Amount Added: 1.00 Units: mL

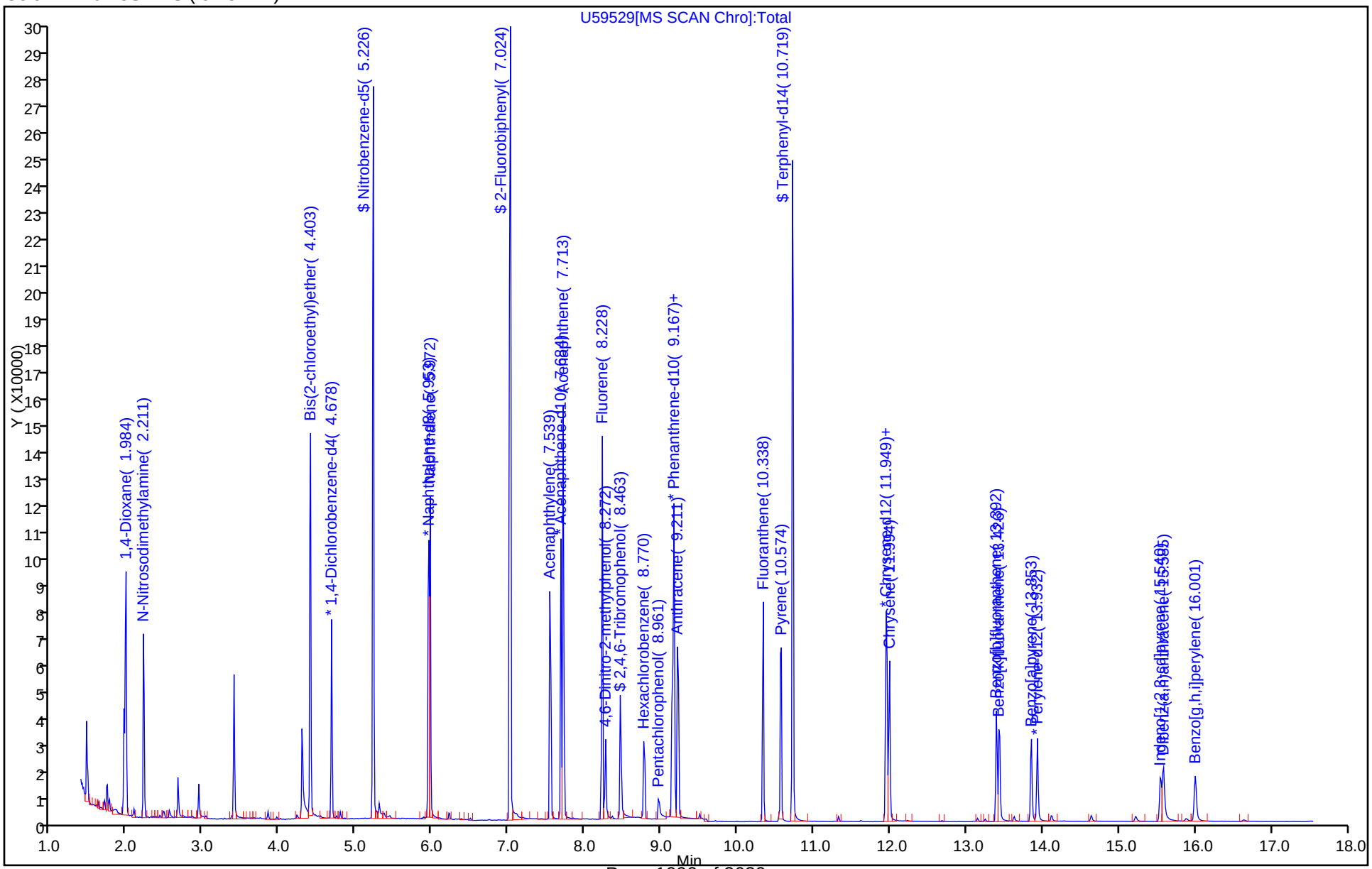
Report Date: 06-Mar-2018 18:55:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59529.D

Injection Date:	06-Mar-2018 12:49:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	std5			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

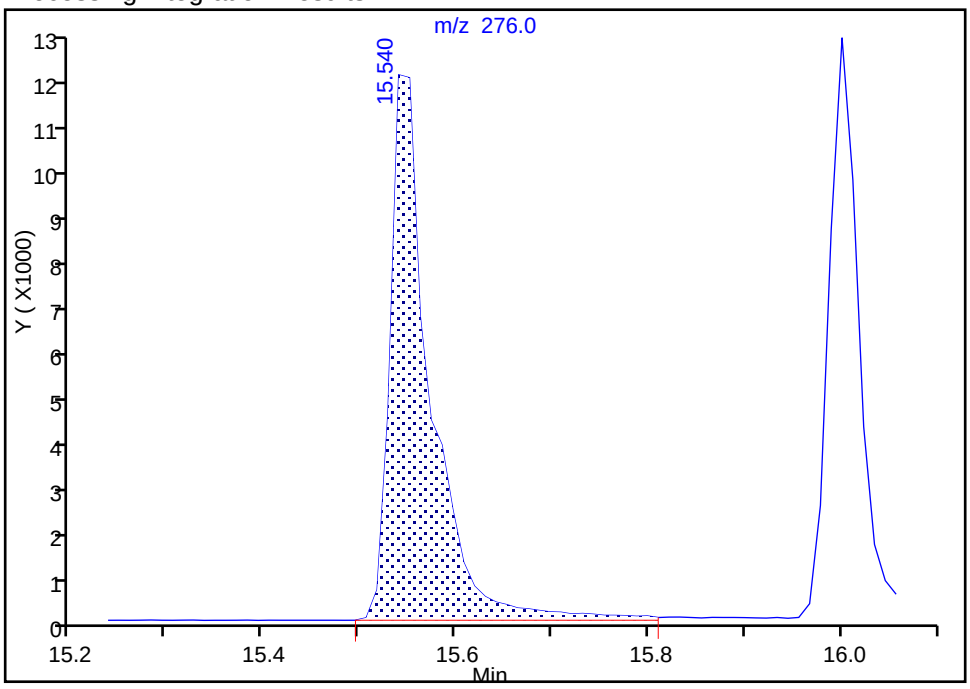
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59529.D				
Injection Date:	06-Mar-2018 12:49:30	Instrument ID:	CBNAMS4		
Lims ID:	std5				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

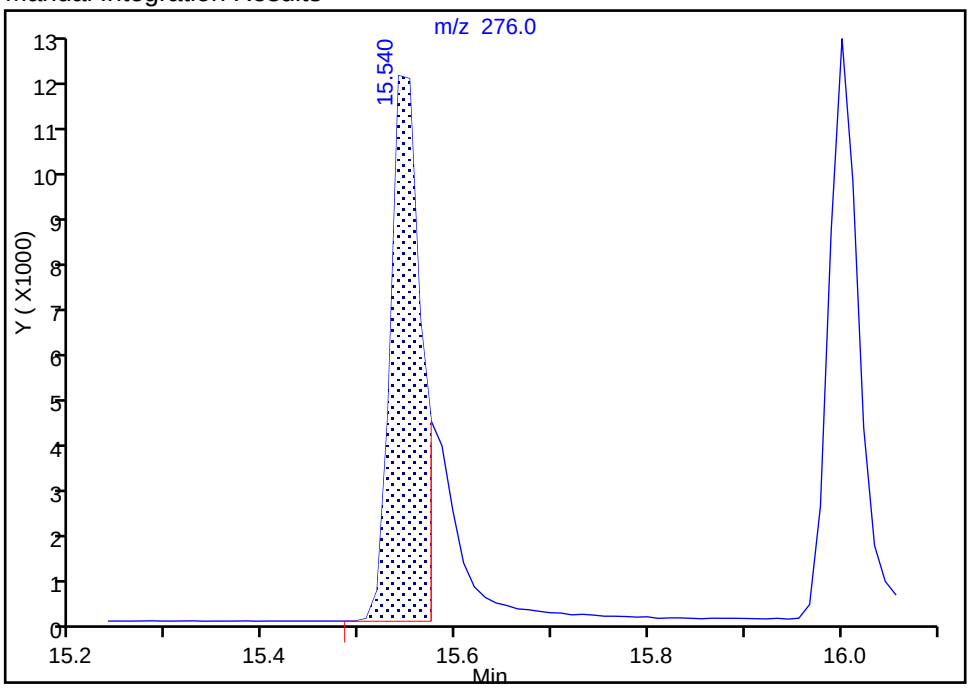
Processing Integration Results

RT: 15.54
Area: 33973
Amount: 0.233732
Amount Units: ug/ml



Manual Integration Results

RT: 15.54
Area: 26374
Amount: 0.209702
Amount Units: ug/ml



Reviewer: johnstonm1, 06-Mar-2018 13:09:28

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59530.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Mar-2018 13:10:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-005
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:37 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: johnstonm1 Date: 06-Mar-2018 13:29:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.983	1.996	-0.013	97	28980	0.4000	0.3866	
2 N-Nitrosodimethylamine	74	2.220	2.224	-0.004	93	17282	0.2000	0.1962	
3 Bis(2-chloroethyl)ether	93	4.401	4.404	-0.003	83	39898	0.2000	0.2073	
* 6 1,4-Dichlorobenzene-d4	152	4.677	4.680	-0.003	100	26085	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.225	5.221	0.004	98	138396	0.8000	0.8071	
* 9 Naphthalene-d8	136	5.952	5.946	0.006	100	94292	0.2000	0.2000	
10 Naphthalene	128	5.971	5.974	-0.003	100	44017	0.1000	0.0978	
$ 11 2-Fluorobiphenyl	172	7.021	7.019	0.002	97	258766	0.8000	0.9026	
12 Acenaphthylene	152	7.550	7.545	0.005	99	44527	0.1000	0.1003	
* 13 Acenaphthene-d10	164	7.682	7.692	-0.010	99	46120	0.2000	0.2000	
14 Acenaphthene	154	7.712	7.720	-0.008	99	26927	0.1000	0.0967	
15 Fluorene	166	8.225	8.232	-0.007	100	34786	0.1000	0.1097	
16 4,6-Dinitro-2-methylphenol	198	8.270	8.276	-0.006	99	14842	0.8000	0.7594	
$ 17 2,4,6-Tribromophenol	330	8.461	8.468	-0.007	97	20661	0.8000	0.8228	
18 Hexachlorobenzene	284	8.780	8.774	0.006	96	14200	0.2000	0.2135	
19 Pentachlorophenol	266	8.971	8.979	-0.008	96	4127	0.2000	0.2152	
* 20 Phenanthrene-d10	188	9.147	9.153	-0.006	100	74363	0.2000	0.2000	
21 Phenanthrene	178	9.162	9.168	-0.006	53	35345	0.1000	0.0873	
22 Anthracene	178	9.221	9.227	-0.006	100	39611	0.1000	0.0981	
23 Fluoranthene	202	10.339	10.336	0.003	100	33570	0.1000	0.0965	
24 Pyrene	202	10.564	10.571	-0.007	100	34234	0.1000	0.0960	
$ 25 Terphenyl-d14	244	10.719	10.727	-0.008	97	188691	0.8000	0.7807	
26 Benzo[a]anthracene	228	11.947	11.947	0.000	94	25430	0.1000	0.0958	
* 27 Chrysene-d12	240	11.957	11.958	-0.001	99	52083	0.2000	0.2000	
28 Chrysene	228	11.991	11.991	0.000	99	25276	0.1000	0.0977	
29 Benzo[b]fluoranthene	252	13.392	13.403	-0.011	100	21703	0.1000	0.0971	
30 Benzo[k]fluoranthene	252	13.437	13.436	0.001	98	22680	0.1000	0.1021	
31 Benzo[a]pyrene	252	13.849	13.851	-0.002	99	17668	0.1000	0.1017	
* 32 Perylene-d12	264	13.927	13.940	-0.013	100	32966	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.548	15.558	-0.010	97	12097	0.1000	0.1014	M
34 Dibenz(a,h)anthracene	278	15.582	15.591	-0.009	99	12386	0.1000	0.1009	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.007	16.006	0.001	94	12230	0.1000	0.0951	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL4_00007 Amount Added: 1.00 Units: mL

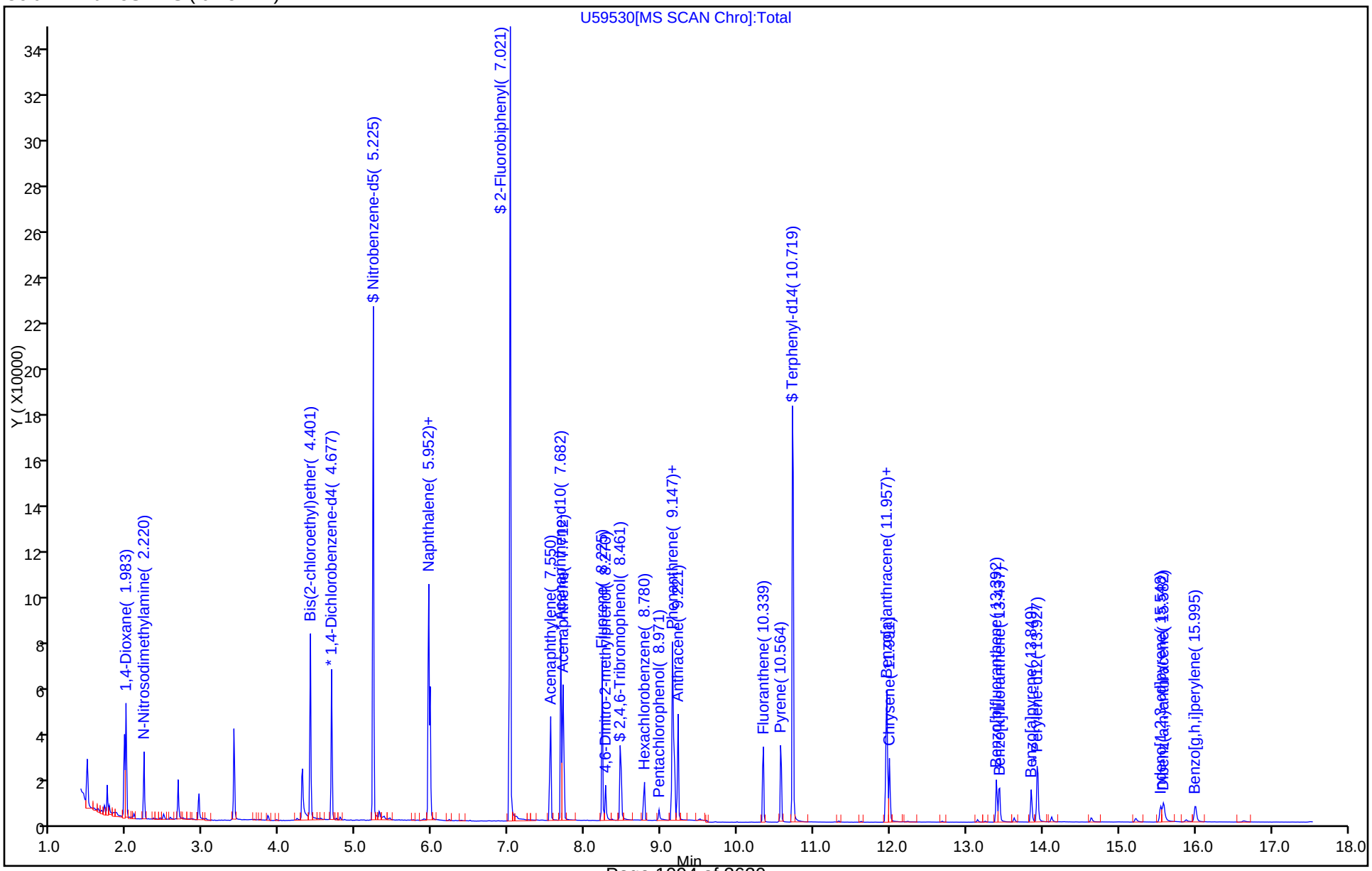
Report Date: 06-Mar-2018 18:55:39 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59530.D

Injection Date:	06-Mar-2018 13:10:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	std4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

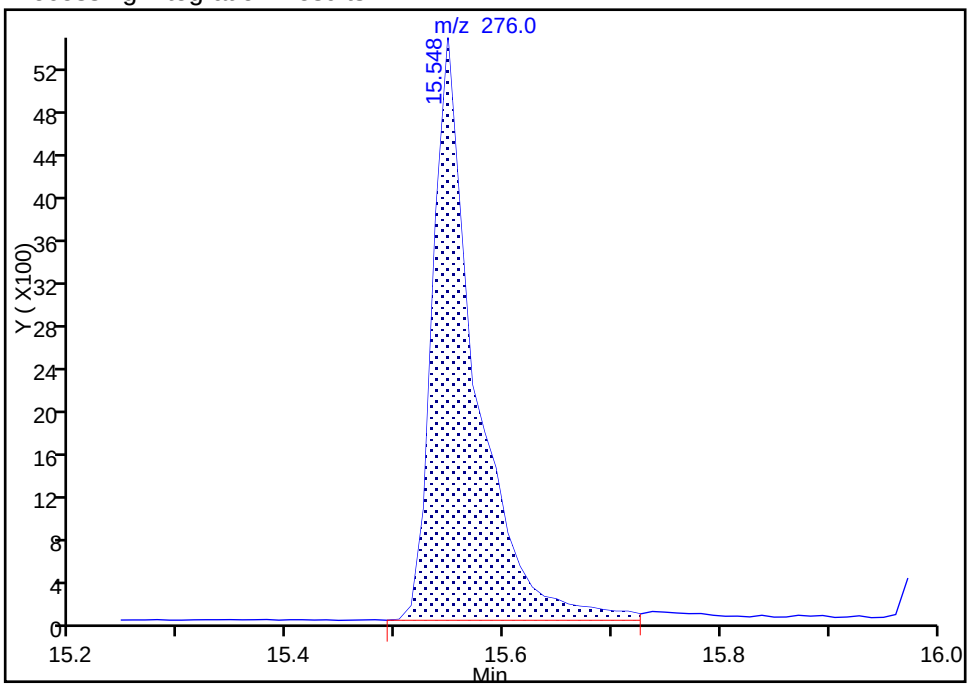
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59530.D				
Injection Date:	06-Mar-2018 13:10:30	Instrument ID:	CBNAMS4		
Lims ID:	std4				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

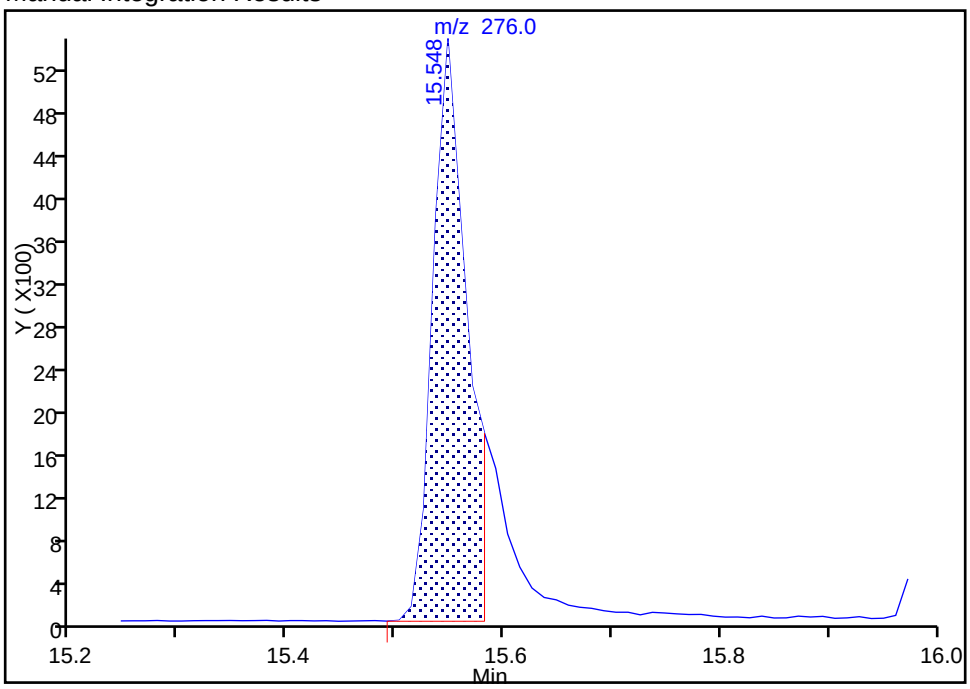
Processing Integration Results

RT: 15.55
Area: 14739
Amount: 0.112297
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 12097
Amount: 0.101392
Amount Units: ug/ml



Reviewer: johnstonm1, 06-Mar-2018 13:28:58

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59531.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Mar-2018 13:32:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-006
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:40 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: zhaoc Date: 06-Mar-2018 14:25:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.991	1.996	-0.005	100	8660	0.1000	0.1079	
2 N-Nitrosodimethylamine	74	2.228	2.224	0.004	94	3417	0.0500	0.0362	
3 Bis(2-chloroethyl)ether	93	4.401	4.404	-0.003	81	1040	0.005000	0.005047	
* 6 1,4-Dichlorobenzene-d4	152	4.683	4.680	0.003	96	27921	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.221	5.221	0.000	96	38073	0.2000	0.2148	
* 9 Naphthalene-d8	136	5.948	5.946	0.002	100	97460	0.2000	0.2000	
10 Naphthalene	128	5.967	5.974	-0.007	100	6665	0.0100	0.0108	
$ 11 2-Fluorobiphenyl	172	7.021	7.019	0.002	97	72412	0.2000	0.1885	
12 Acenaphthylene	152	7.550	7.545	0.005	99	4635	0.0100	0.0101	
* 13 Acenaphthene-d10	164	7.681	7.692	-0.011	98	47758	0.2000	0.2000	
14 Acenaphthene	154	7.711	7.720	-0.009	95	2778	0.0100	0.009636	
15 Fluorene	166	8.223	8.232	-0.009	99	3463	0.0100	0.0105	
16 4,6-Dinitro-2-methylphenol	198	8.267	8.276	-0.009	93	1472	0.2000	0.1656	
$ 17 2,4,6-Tribromophenol	330	8.472	8.468	0.004	78	5257	0.2000	0.2022	
18 Hexachlorobenzene	284	8.781	8.774	0.007	80	345	0.005000	0.004945	
19 Pentachlorophenol	266	8.971	8.979	-0.008	94	736	0.0500	0.0488	
* 20 Phenanthrene-d10	188	9.147	9.153	-0.006	100	78021	0.2000	0.2000	
21 Phenanthrene	178	9.176	9.168	0.008	56	3908	0.0100	0.009203	
22 Anthracene	178	9.221	9.227	-0.007	100	4454	0.0100	0.0105	
23 Fluoranthene	202	10.332	10.336	-0.004	98	3543	0.0100	0.009709	
24 Pyrene	202	10.566	10.571	-0.005	97	3535	0.0100	0.009752	
$ 25 Terphenyl-d14	244	10.722	10.727	-0.005	99	54225	0.2000	0.2206	
26 Benzo[a]anthracene	228	11.943	11.947	-0.004	64	2716	0.0100	0.0101	
* 27 Chrysene-d12	240	11.965	11.958	0.007	100	52968	0.2000	0.2000	
28 Chrysene	228	11.988	11.991	-0.003	99	2656	0.0100	0.0101	
29 Benzo[b]fluoranthene	252	13.397	13.403	-0.006	100	2222	0.0100	0.0100	
30 Benzo[k]fluoranthene	252	13.431	13.436	-0.005	100	2186	0.0100	0.009861	
31 Benzo[a]pyrene	252	13.856	13.851	0.005	99	1644	0.0100	0.009477	
* 32 Perylene-d12	264	13.935	13.940	-0.005	100	32911	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.560	15.558	0.002	96	1163	0.0100	0.009764	M
34 Dibenz(a,h)anthracene	278	15.594	15.591	0.003	88	1176	0.0100	0.009599	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.006	16.006	0.000	92	1288	0.0100	0.0100	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL2_00008 Amount Added: 1.00 Units: mL

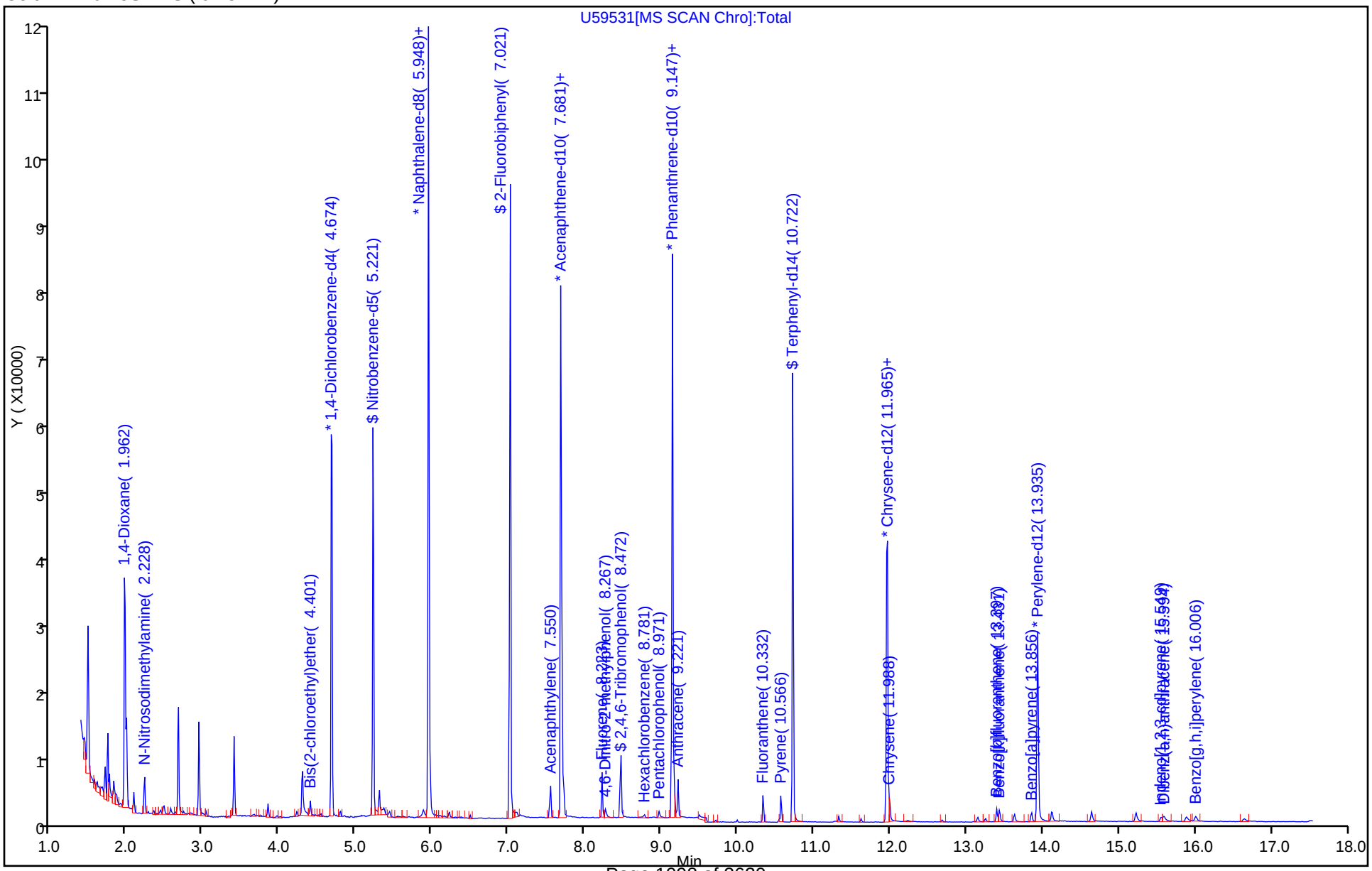
Report Date: 06-Mar-2018 18:55:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59531.D

Injection Date:	06-Mar-2018 13:32:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	std2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

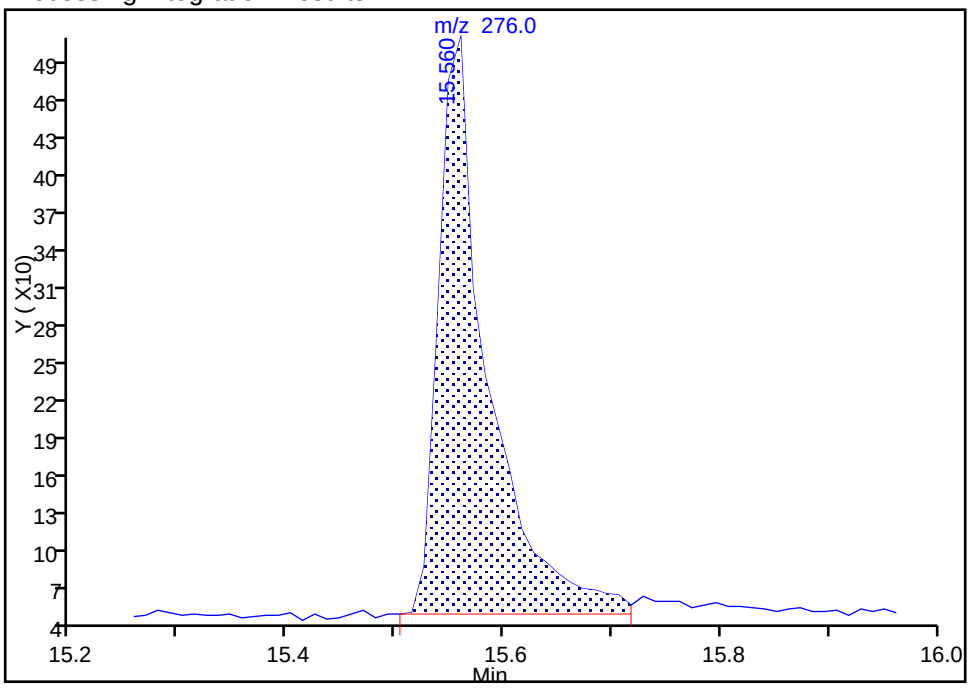
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59531.D				
Injection Date:	06-Mar-2018 13:32:30	Instrument ID:	CBNAMS4		
Lims ID:	std2				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

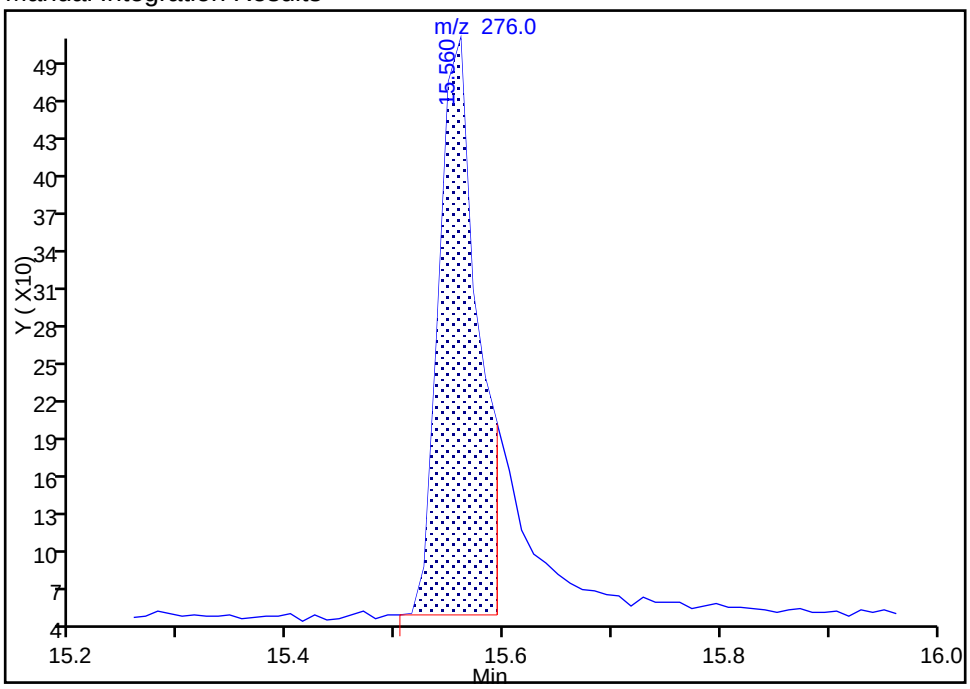
Processing Integration Results

RT: 15.56
Area: 1435
Amount: 0.011189
Amount Units: ug/ml



Manual Integration Results

RT: 15.56
Area: 1163
Amount: 0.009764
Amount Units: ug/ml



Reviewer: asfawa, 06-Mar-2018 14:47:47

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59532.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Mar-2018 13:54:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-007
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:42 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: zhaoc Date: 06-Mar-2018 14:20:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.991	1.996	-0.005	85	3578	0.0400	0.0444	
2 N-Nitrosodimethylamine	74	2.228	2.224	0.004	90	1799	0.0200	0.0190	
3 Bis(2-chloroethyl)ether	93	4.398	4.404	-0.006	89	482	0.002000	0.002327	
* 6 1,4-Dichlorobenzene-d4	152	4.683	4.680	0.003	96	28066	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.222	5.221	0.001	97	18206	0.1000	0.1040	
* 9 Naphthalene-d8	136	5.951	5.946	0.005	100	96268	0.2000	0.2000	
10 Naphthalene	128	5.969	5.974	-0.005	100	3928	0.005000	0.004802	
$ 11 2-Fluorobiphenyl	172	7.018	7.019	-0.001	98	39215	0.1000	0.0714	
12 Acenaphthylene	152	7.547	7.545	0.002	99	2383	0.005000	0.005241	
* 13 Acenaphthene-d10	164	7.680	7.692	-0.012	96	47248	0.2000	0.2000	
14 Acenaphthene	154	7.724	7.720	0.004	92	1444	0.005000	0.005063	
15 Fluorene	166	8.224	8.232	-0.008	99	1695	0.005000	0.005216	
16 4,6-Dinitro-2-methylphenol	198	8.282	8.276	0.006	87	611	0.1000	0.1101	
$ 17 2,4,6-Tribromophenol	330	8.474	8.468	0.006	75	2345	0.1000	0.0912	
18 Hexachlorobenzene	284	8.779	8.774	0.005	80	132	0.002000	0.001860	
19 Pentachlorophenol	266	8.970	8.979	-0.009	91	337	0.0200	0.0232	
* 20 Phenanthrene-d10	188	9.147	9.153	-0.006	100	79339	0.2000	0.2000	
21 Phenanthrene	178	9.176	9.168	0.008	71	1997	0.005000	0.004625	
22 Anthracene	178	9.220	9.227	-0.007	99	2094	0.005000	0.004859	
23 Fluoranthene	202	10.332	10.336	-0.004	98	1687	0.005000	0.004546	
24 Pyrene	202	10.568	10.571	-0.003	91	1741	0.005000	0.005070	
$ 25 Terphenyl-d14	244	10.725	10.727	-0.003	100	26867	0.1000	0.1154	
26 Benzo[a]anthracene	228	11.944	11.947	-0.003	38	1375	0.005000	0.005377	
* 27 Chrysene-d12	240	11.955	11.958	-0.003	98	50173	0.2000	0.2000	
28 Chrysene	228	11.989	11.991	-0.002	99	1181	0.005000	0.004738	
29 Benzo[b]fluoranthene	252	13.399	13.403	-0.004	99	1117	0.005000	0.005253	
30 Benzo[k]fluoranthene	252	13.433	13.436	-0.003	100	913	0.005000	0.004323	
31 Benzo[a]pyrene	252	13.848	13.851	-0.003	99	779	0.005000	0.004713	
* 32 Perylene-d12	264	13.938	13.940	-0.002	100	31356	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.548	15.558	-0.010	91	561	0.005000	0.004944	M
34 Dibenz(a,h)anthracene	278	15.593	15.591	0.002	37	541	0.005000	0.004635	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.006	16.006	0.000	93	588	0.005000	0.004807	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL1_00008 Amount Added: 1.00 Units: mL

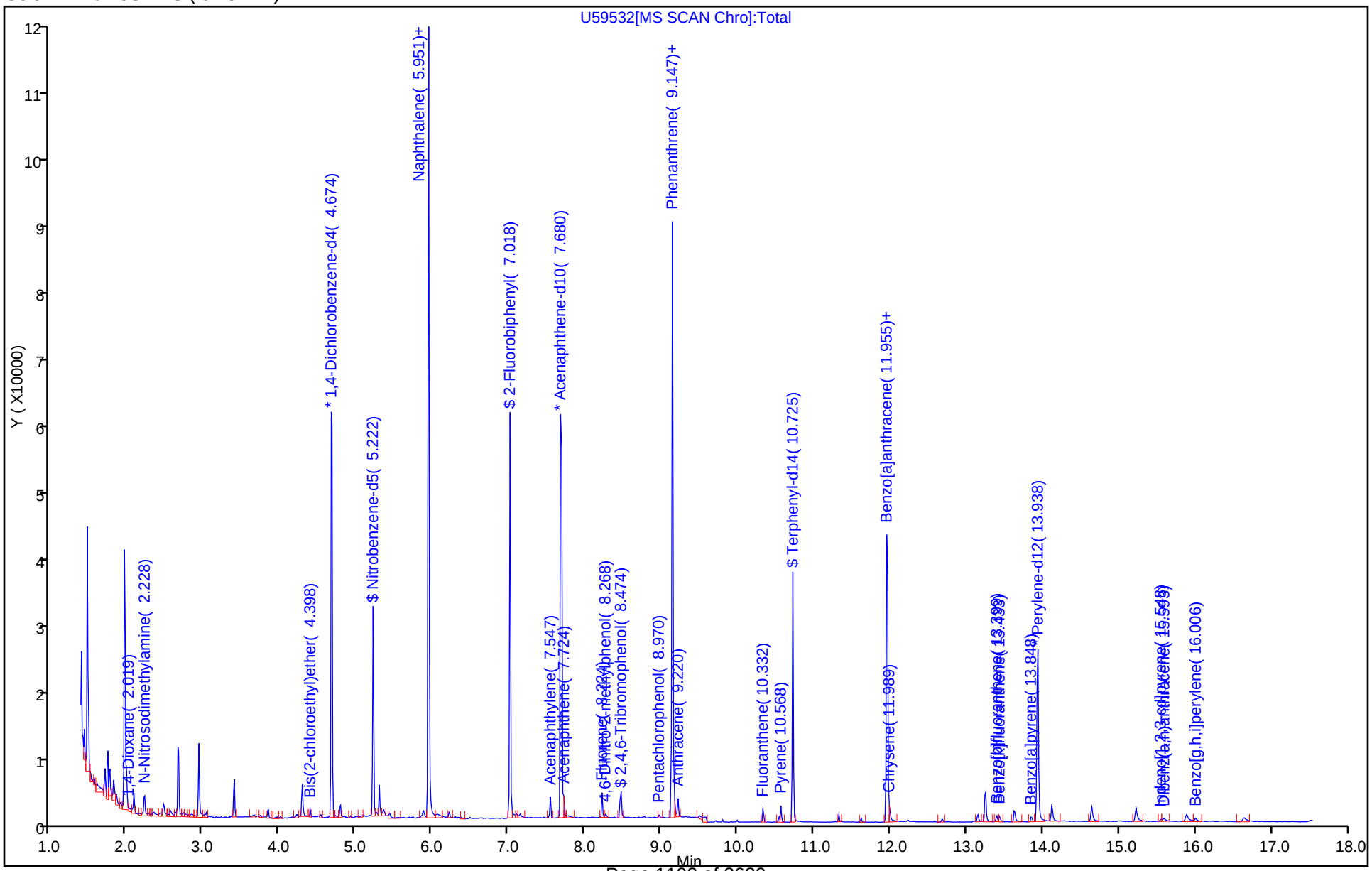
Report Date: 06-Mar-2018 18:55:43 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59532.D

Injection Date:	06-Mar-2018 13:54:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	std1			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

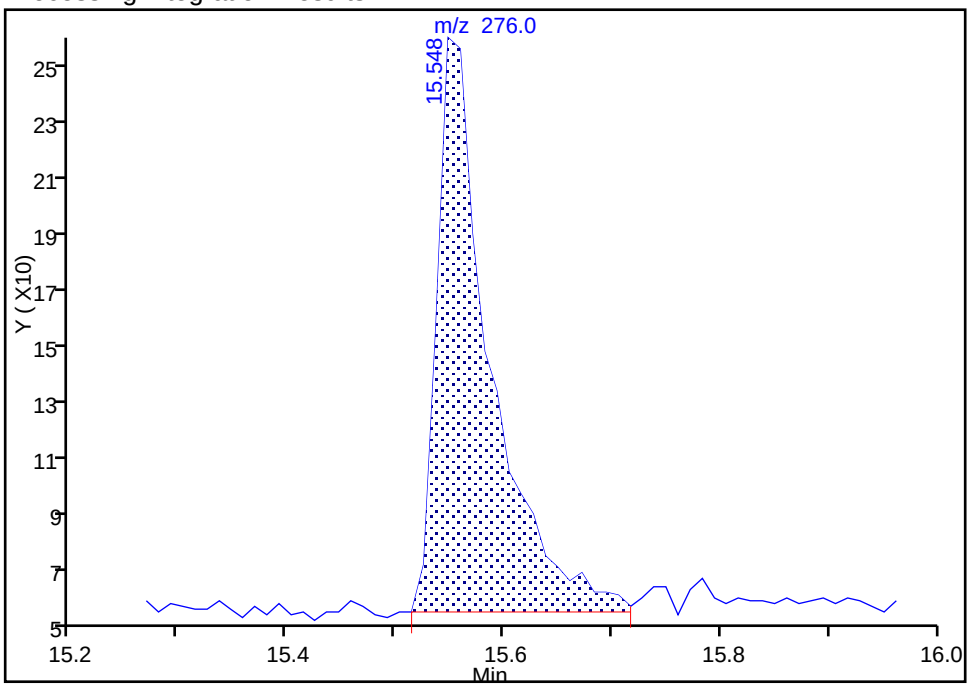
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59532.D				
Injection Date:	06-Mar-2018 13:54:30	Instrument ID:	CBNAMS4		
Lims ID:	std1				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

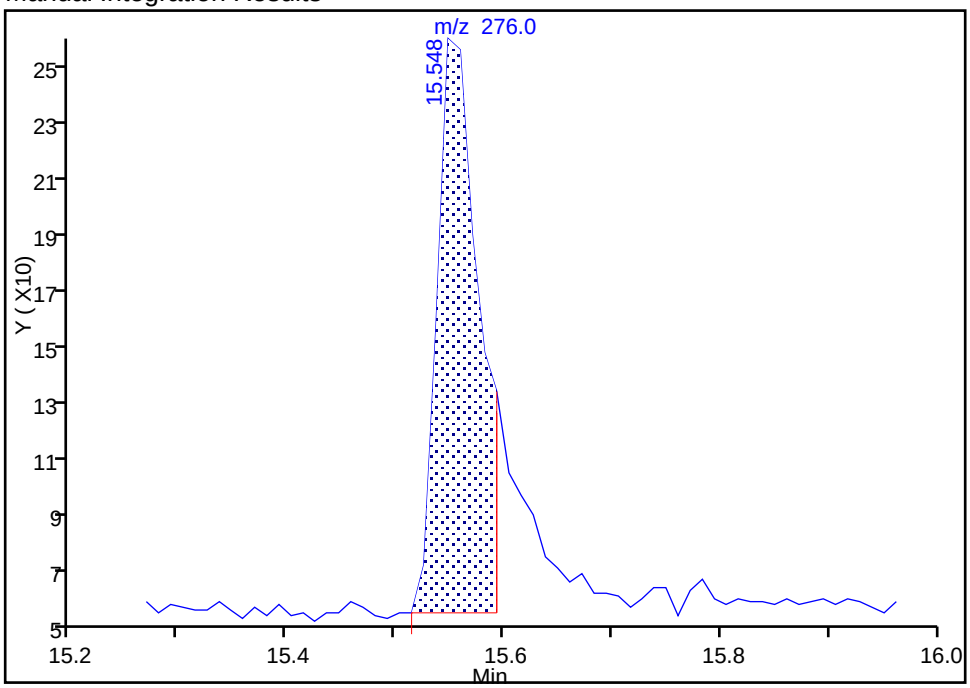
Processing Integration Results

RT: 15.55
Area: 703
Amount: 0.005813
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 561
Amount: 0.004944
Amount Units: ug/ml



Reviewer: asfawa, 06-Mar-2018 14:48:55

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

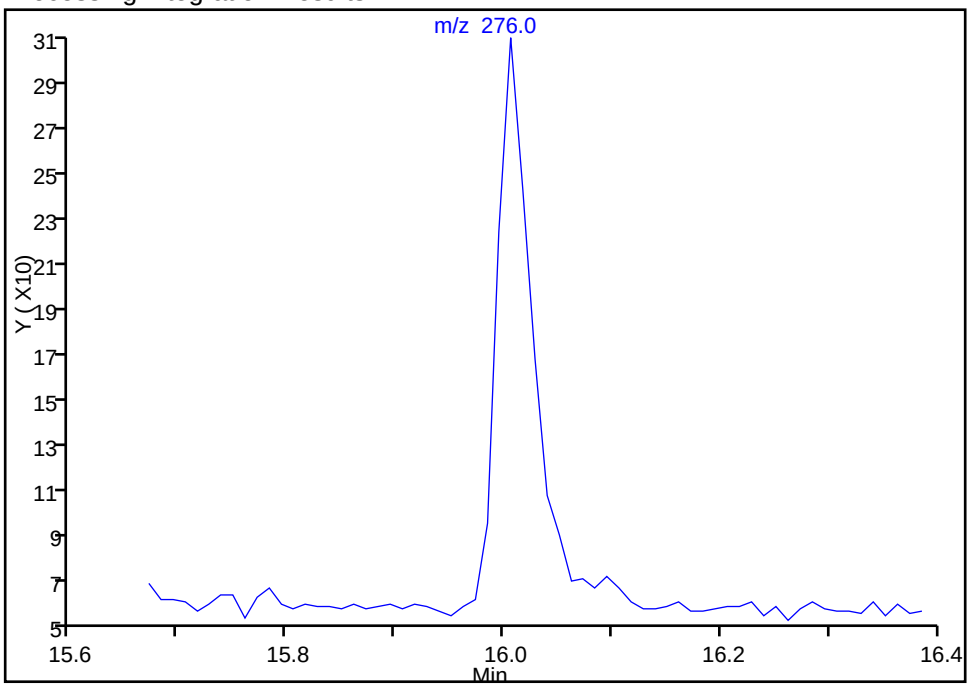
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59532.D				
Injection Date:	06-Mar-2018 13:54:30	Instrument ID:	CBNAMS4		
Lims ID:	std1				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

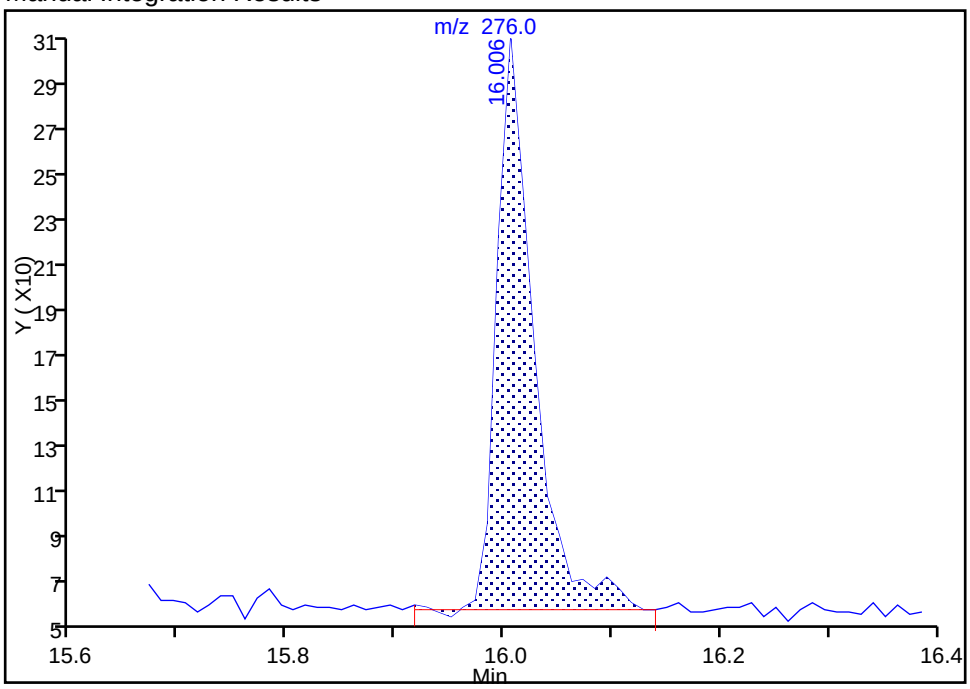
Not Detected
Expected RT: 16.01

Processing Integration Results



Manual Integration Results

RT: 16.01
Area: 588
Amount: 0.004807
Amount Units: ug/ml



Reviewer: asfawa, 06-Mar-2018 14:49:09
Audit Action: Assigned Compound ID Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Mar-2018 15:25:30 ALS Bottle#: 2 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-002
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 18:55:45 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: hamziy Date: 06-Mar-2018 16:38:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.996	1.996	0.000	94	16633	0.2000	0.2021	
2 N-Nitrosodimethylamine	74	2.224	2.224	0.000	97	11935	0.1000	0.1234	
3 Bis(2-chloroethyl)ether	93	4.404	4.404	0.000	88	4084	0.0200	0.0193	
* 6 1,4-Dichlorobenzene-d4	152	4.680	4.680	0.000	100	28634	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	5.221	5.221	0.000	91	73207	0.4000	0.4140	
* 9 Naphthalene-d8	136	5.946	5.946	0.000	100	97241	0.2000	0.2000	
10 Naphthalene	128	5.974	5.974	0.000	52	10731	0.0200	0.0200	
$ 11 2-Fluorobiphenyl	172	7.019	7.019	0.000	100	146650	0.4000	0.4289	
12 Acenaphthylene	152	7.545	7.545	0.000	99	10200	0.0200	0.0210	
* 13 Acenaphthene-d10	164	7.692	7.692	0.000	96	50352	0.2000	0.2000	
14 Acenaphthene	154	7.720	7.720	0.000	93	6677	0.0200	0.0220	
15 Fluorene	166	8.232	8.232	0.000	95	6357	0.0200	0.0184	
16 4,6-Dinitro-2-methylphenol	198	8.276	8.276	0.000	93	4697	0.4000	0.3671	
$ 17 2,4,6-Tribromophenol	330	8.468	8.468	0.000	94	13462	0.4000	0.4910	
18 Hexachlorobenzene	284	8.774	8.774	0.000	91	1202	0.0200	0.0193	
19 Pentachlorophenol	266	8.979	8.979	0.000	98	1560	0.1000	0.1045	
* 20 Phenanthrene-d10	188	9.153	9.153	0.000	99	69486	0.2000	0.2000	
21 Phenanthrene	178	9.168	9.168	0.000	97	8916	0.0200	0.0236	
22 Anthracene	178	9.227	9.227	0.000	98	8156	0.0200	0.0216	
23 Fluoranthene	202	10.336	10.336	0.000	98	7175	0.0200	0.0221	
24 Pyrene	202	10.571	10.571	0.000	99	7756	0.0200	0.0214	
$ 25 Terphenyl-d14	244	10.727	10.727	0.000	97	103456	0.4000	0.4218	
26 Benzo[a]anthracene	228	11.947	11.947	0.000	75	5089	0.0200	0.0189	
* 27 Chrysene-d12	240	11.958	11.958	0.000	98	52859	0.2000	0.2000	
28 Chrysene	228	11.991	11.991	0.000	98	5396	0.0200	0.0205	
29 Benzo[b]fluoranthene	252	13.403	13.403	0.000	100	3915	0.0200	0.0184	
30 Benzo[k]fluoranthene	252	13.436	13.436	0.000	62	4759	0.0200	0.0225	
31 Benzo[a]pyrene	252	13.851	13.851	0.000	99	3447	0.0200	0.0208	
* 32 Perylene-d12	264	13.940	13.940	0.000	100	31415	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.558	15.558	0.000	98	2106	0.0200	0.0185	M
34 Dibenz(a,h)anthracene	278	15.591	15.591	0.000	98	2289	0.0200	0.0196	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzo[g,h,i]perylene	276	16.006	16.006	0.000	97	2646	0.0200	0.0216	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL3_00010 Amount Added: 1.00 Units: mL

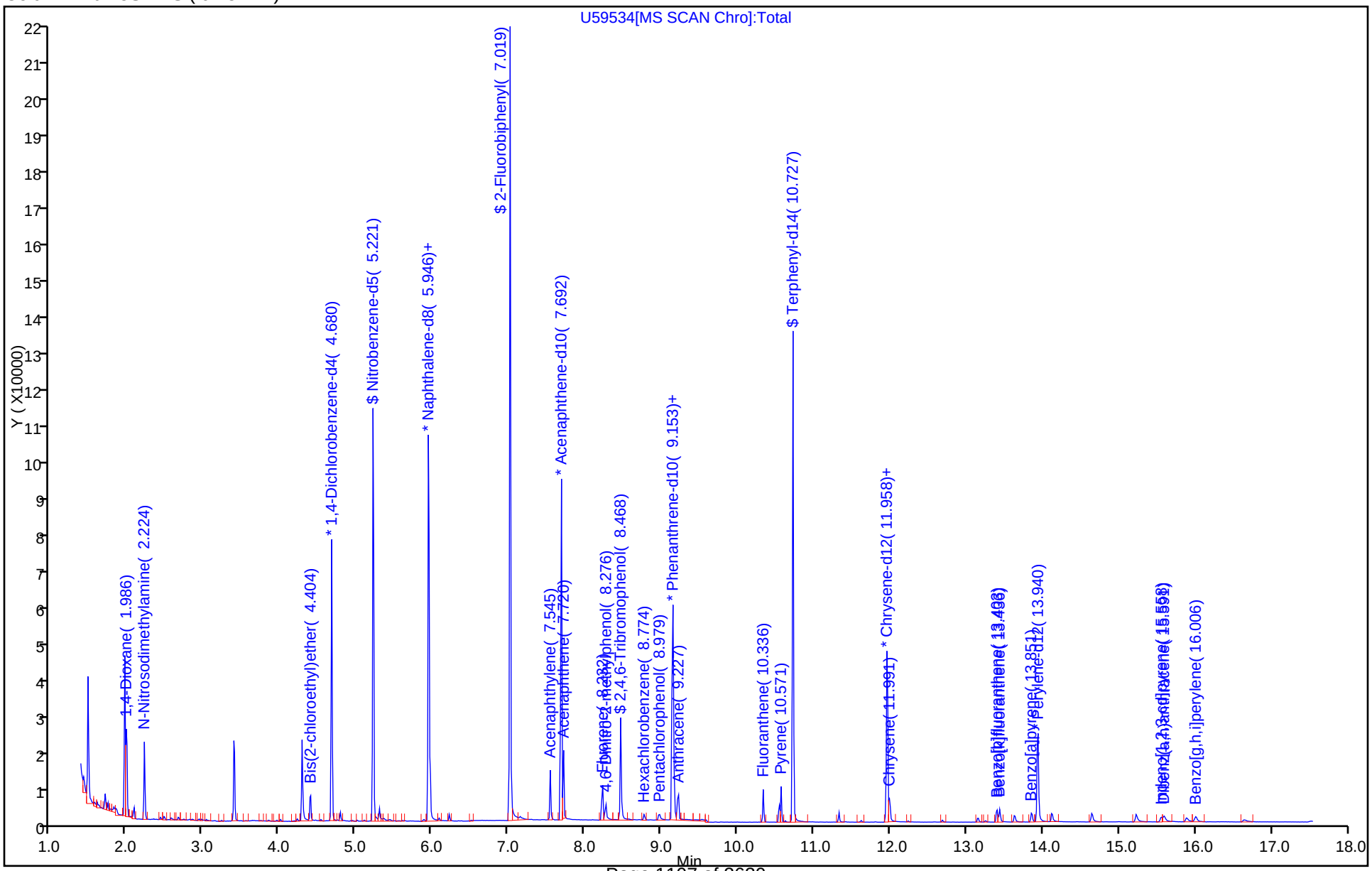
Report Date: 06-Mar-2018 18:55:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Injection Date:	06-Mar-2018 15:25:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	icis			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

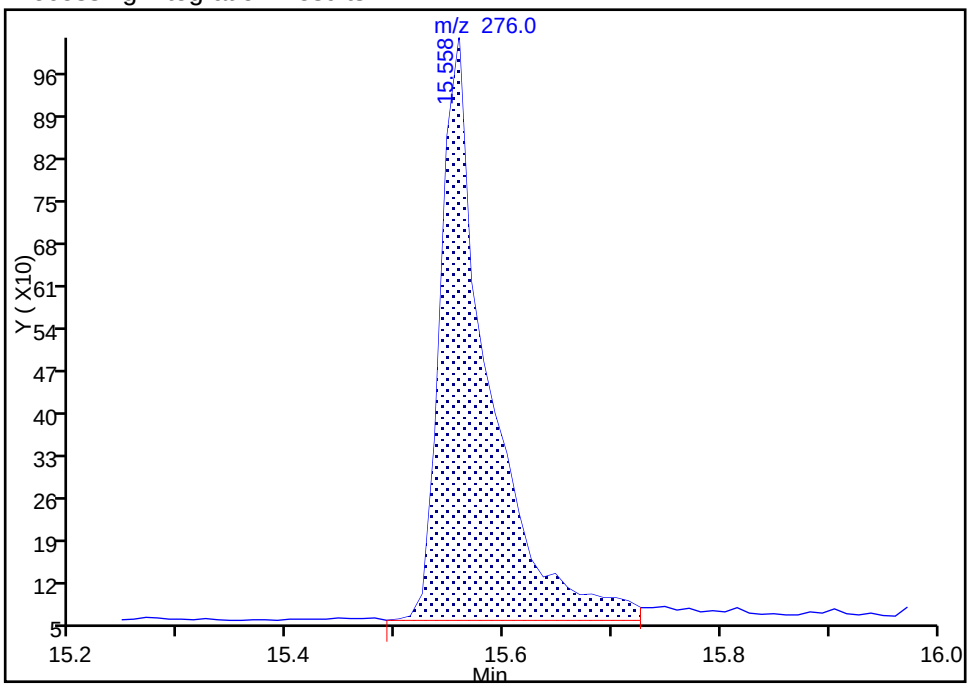
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D				
Injection Date:	06-Mar-2018 15:25:30	Instrument ID:	CBNAMS4		
Lims ID:	icis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	9
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

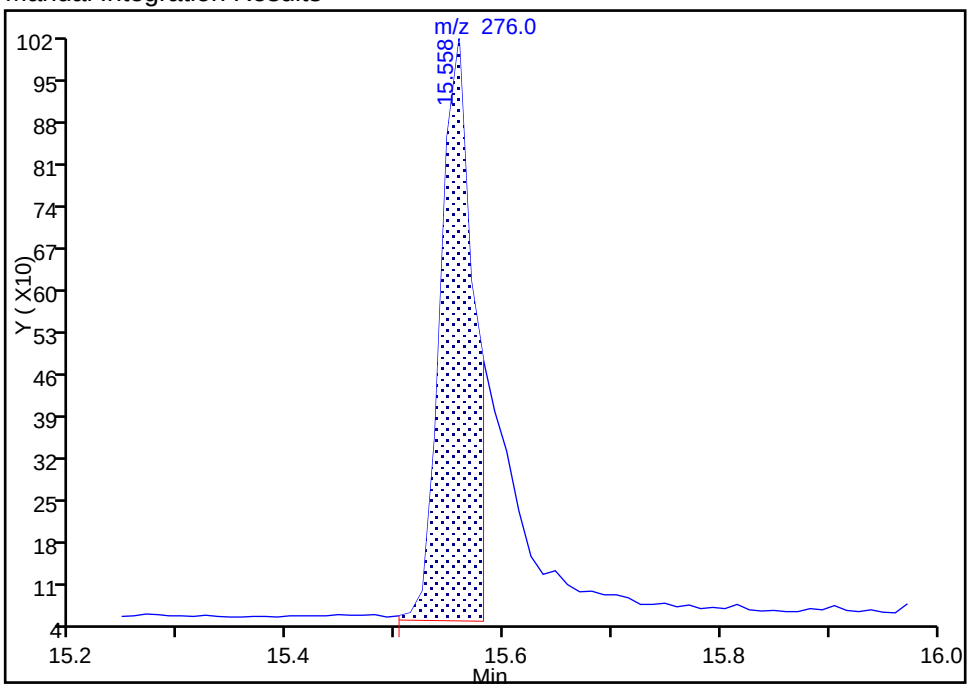
Processing Integration Results

RT: 15.56
Area: 2952
Amount: 0.024448
Amount Units: ug/ml



Manual Integration Results

RT: 15.56
Area: 2106
Amount: 0.018523
Amount Units: ug/ml



Reviewer: xuyvo, 06-Mar-2018 18:54:32

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-504754/2 Instrument ID (1): CBNAMS4

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/20/2018 11:29

ANALYTE	RT	RESOLUTION (%)
1,4-Dioxane	1.68	100.0
Nitrobenzene-d5	4.89	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-501678/8 Calibration Date: 03/06/2018 16:45

Instrument ID: CBNAMS4 Calib Start Date: 03/06/2018 12:27

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/06/2018 15:25

Lab File ID: U59535.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5748	0.5978		208	200	4.0	30.0
N-Nitrosodimethylamine	Ave	0.6753	0.5565		82.4	100	-17.6	30.0
Bis(2-chloroethyl)ether	Ave	1.476	1.751	0.7000	23.7	20.0	18.7	30.0
Naphthalene	Lin2		1.020	0.7000	18.2	20.0	-9.2	30.0
Acenaphthylene	Ave	1.925	1.729	0.9000	18.0	20.0	-10.2	30.0
Acenaphthene	Ave	1.207	1.150	0.9000	19.0	20.0	-4.8	30.0
Fluorene	Ave	1.376	1.310	0.9000	19.0	20.0	-4.8	30.0
4,6-Dinitro-2-methylphenol	Qua2		0.0313	0.0100	349	400	-12.8	30.0
Hexachlorobenzene	Ave	0.1789	0.1384	0.1000	15.5	20.0	-22.6	30.0
Pentachlorophenol	QuaF		0.0389*	0.0500	92.4	100	-7.6	30.0
Phenanthrene	Ave	1.089	1.119	0.7000	20.6	20.0	2.8	30.0
Anthracene	Ave	1.086	1.036	0.7000	19.1	20.0	-4.7	30.0
Fluoranthene	Ave	0.9355	0.9410	0.6000	20.1	20.0	0.6	30.0
Pyrene	Ave	1.369	1.536	0.6000	22.4	20.0	12.2	30.0
Benzo[a]anthracene	Ave	1.019	1.119	0.8000	22.0	20.0	9.8	30.0
Chrysene	Ave	0.9937	1.173	0.7000	23.6	20.0	18.1	30.0
Benzo[b]fluoranthene	Ave	1.356	1.547		22.8	20.0	14.0	30.0
Benzo[k]fluoranthene	Ave	1.347	1.577	0.7000	23.4	20.0	17.1	30.0
Benzo[a]pyrene	Ave	1.054	1.105	0.7000	21.0	20.0	4.8	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.7238	0.7460	0.5000	20.6	20.0	3.1	30.0
Dibenz(a,h)anthracene	Ave	0.7445	0.8513	0.4000	22.9	20.0	14.3	30.0
Benzo[g,h,i]perylene	Ave	0.7802	0.9107	0.5000	23.3	20.0	16.7	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59535.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 06-Mar-2018 16:45:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-008
Operator ID: Instrument ID: CBNAMS4
Sublist:

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 07-Mar-2018 09:13:21 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: zhaoc Date: 07-Mar-2018 09:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.989	1.995	-0.007	98	18261	0.2000	0.2080	
2 N-Nitrosodimethylamine	74	2.225	2.223	0.001	97	8500	0.1000	0.0824	
3 Bis(2-chloroethyl)ether	93	4.409	4.403	0.005	88	5350	0.0200	0.0237	
* 6 1,4-Dichlorobenzene-d4	152	4.685	4.680	0.005	99	30549	0.2000	0.2000	
* 9 Naphthalene-d8	136	5.953	5.946	0.007	100	102977	0.2000	0.2000	
10 Naphthalene	128	5.981	5.973	0.007	52	10503	0.0200	0.0182	
12 Acenaphthylene	152	7.548	7.532	0.003	99	9989	0.0200	0.0180	
* 13 Acenaphthene-d10	164	7.694	7.692	0.002	99	57778	0.2000	0.2000	
14 Acenaphthene	154	7.723	7.707	0.003	99	6644	0.0200	0.0190	
15 Fluorene	166	8.236	8.218	0.004	99	7569	0.0200	0.0190	
16 4,6-Dinitro-2-methylphenol	198	8.280	8.257	0.004	95	5054	0.4000	0.3487	
18 Hexachlorobenzene	284	8.794	8.753	0.020	89	1117	0.0200	0.0155	
19 Pentachlorophenol	266	8.986	8.959	0.007	99	1568	0.1000	0.0924	
* 20 Phenanthrene-d10	188	9.160	9.153	0.007	100	80713	0.2000	0.2000	
21 Phenanthrene	178	9.175	9.147	0.007	92	9028	0.0200	0.0206	
22 Anthracene	178	9.233	9.206	0.006	99	8359	0.0200	0.0191	
23 Fluoranthene	202	10.341	10.312	0.005	97	7595	0.0200	0.0201	
24 Pyrene	202	10.574	10.569	0.003	97	7858	0.0200	0.0224	
26 Benzo[a]anthracene	228	11.963	11.944	0.016	96	5727	0.0200	0.0220	
* 27 Chrysene-d12	240	11.974	11.958	0.016	100	51172	0.2000	0.2000	
28 Chrysene	228	12.008	11.988	0.017	100	6005	0.0200	0.0236	
29 Benzo[b]fluoranthene	252	13.408	13.399	0.005	100	4761	0.0200	0.0228	
30 Benzo[k]fluoranthene	252	13.441	13.432	0.005	92	4854	0.0200	0.0234	
31 Benzo[a]pyrene	252	13.867	13.847	0.016	100	3401	0.0200	0.0210	
* 32 Perylene-d12	264	13.945	13.940	0.005	100	30778	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	15.568	15.554	0.010	99	2296	0.0200	0.0206	M
34 Dibenz(a,h)anthracene	278	15.602	15.587	0.011	99	2620	0.0200	0.0229	
35 Benzo[g,h,i]perylene	276	16.024	16.002	0.018	93	2803	0.0200	0.0233	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMICV_LVI_00023 Amount Added: 1.00 Units: mL

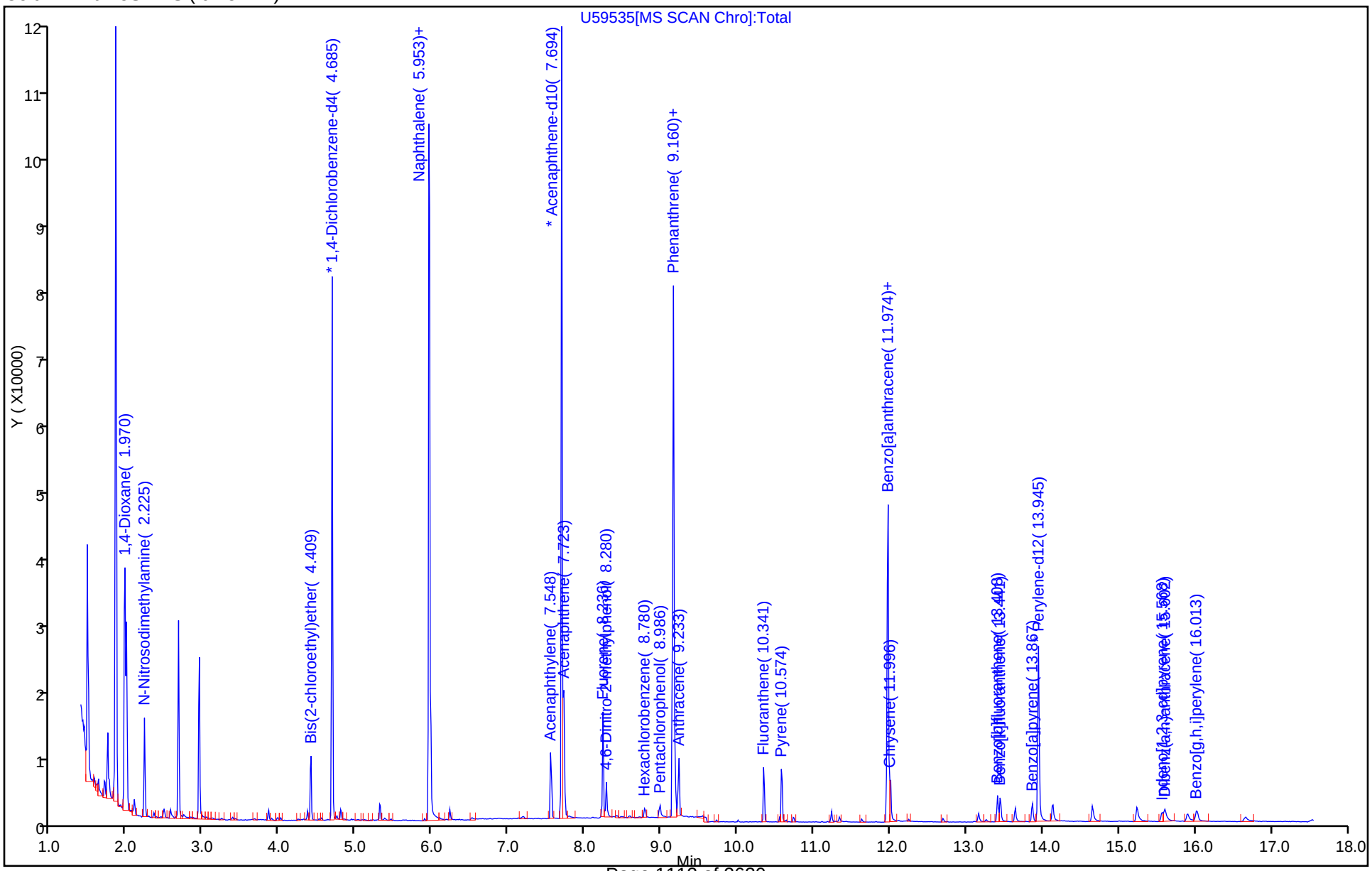
Report Date: 07-Mar-2018 09:13:22 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59535.D

Injection Date:	06-Mar-2018 16:45:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	icv			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

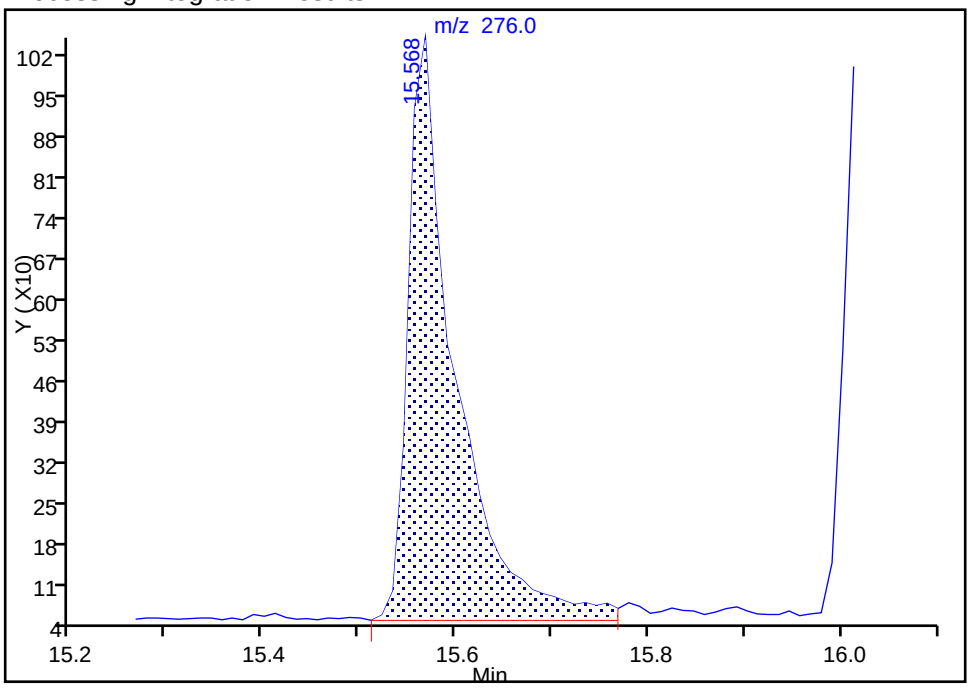
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59535.D				
Injection Date:	06-Mar-2018 16:45:30	Instrument ID:	CBNAMS4		
Lims ID:	icv				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

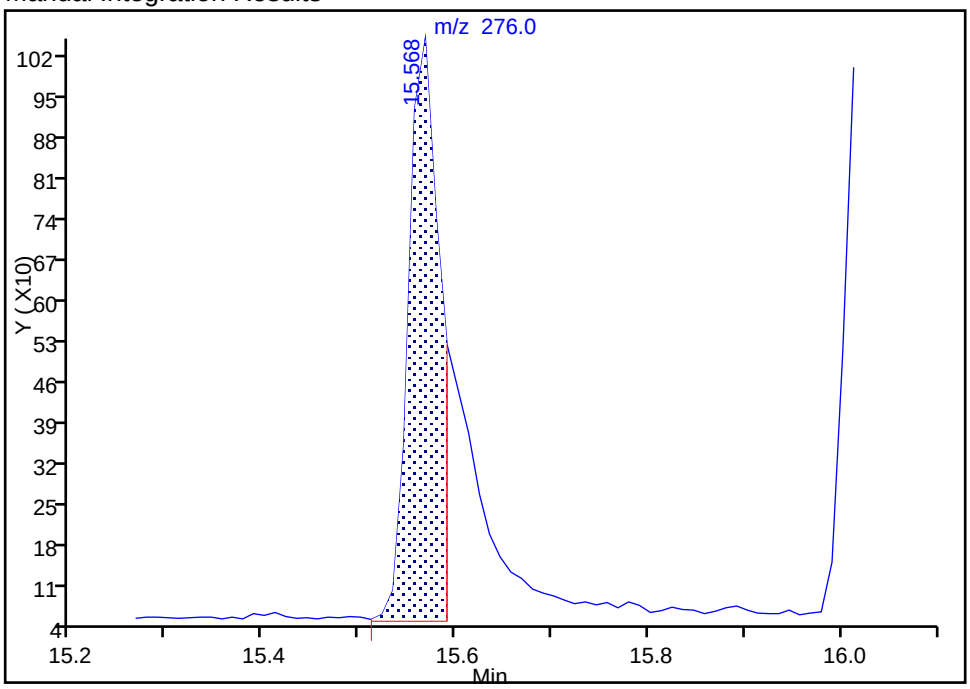
Processing Integration Results

RT: 15.57
Area: 3350
Amount: 0.028319
Amount Units: ug/ml



Manual Integration Results

RT: 15.57
Area: 2296
Amount: 0.020612
Amount Units: ug/ml



Reviewer: xuyvo, 06-Mar-2018 18:52:28

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-504754/2 Calibration Date: 03/20/2018 11:29

Instrument ID: CBNAMS4 Calib Start Date: 03/06/2018 12:27

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/06/2018 15:25

Lab File ID: U59653.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5748	0.5998		209	200	4.3	20.0
N-Nitrosodimethylamine	Ave	0.6753	0.6148		91.0	100	-9.0	20.0
Bis(2-chloroethyl)ether	Ave	1.476	1.297	0.7000	17.6	20.0	-12.1	20.0
Naphthalene	Lin2		1.086	0.7000	19.6	20.0	-2.0	20.0
Acenaphthylene	Ave	1.925	1.833	0.9000	19.0	20.0	-4.8	20.0
Acenaphthene	Ave	1.207	1.481	0.9000	24.5	20.0	22.6*	20.0
Fluorene	Ave	1.376	1.083	0.9000	15.7	20.0	-21.3*	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.0600	0.0100	541	400	35.2*	20.0
Hexachlorobenzene	Ave	0.1789	0.1922	0.1000	21.5	20.0	7.4	20.0
Pentachlorophenol	QuaF		0.0342*	0.0500	82.8	100	-17.2	20.0
Phenanthrene	Ave	1.089	1.087	0.7000	20.0	20.0	-0.2	20.0
Anthracene	Ave	1.086	1.118	0.7000	20.6	20.0	2.9	20.0
Fluoranthene	Ave	0.9355	0.8263	0.6000	17.7	20.0	-11.7	20.0
Pyrene	Ave	1.369	1.709	0.6000	25.0	20.0	24.8*	20.0
Benzo[a]anthracene	Ave	1.019	1.057	0.8000	20.7	20.0	3.7	20.0
Chrysene	Ave	0.9937	1.120	0.7000	22.5	20.0	12.7	20.0
Benzo[b]fluoranthene	Ave	1.356	1.113		16.4	20.0	-17.9	20.0
Benzo[k]fluoranthene	Ave	1.347	1.384	0.7000	20.6	20.0	2.8	20.0
Benzo[a]pyrene	Ave	1.054	0.9759	0.7000	18.5	20.0	-7.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.7238	0.6220	0.5000	17.2	20.0	-14.1	20.0
Dibenz(a,h)anthracene	Ave	0.7445	0.6775	0.4000	18.2	20.0	-9.0	20.0
Benzo[g,h,i]perylene	Ave	0.7802	0.7778	0.5000	19.9	20.0	-0.3	20.0
Nitrobenzene-d5	Ave	0.3637	0.4132		454	400	13.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59653.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Mar-2018 11:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-002
Operator ID: Instrument ID: CBNAMS4
Sublist: chrom-Surr SIM_LVI_4*sub5

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:21:34 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 15:21:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.675	1.675	0.000	83	18423	0.2000	0.2087	M
2 N-Nitrosodimethylamine	74	1.902	1.902	0.000	91	9442	0.1000	0.0910	
3 Bis(2-chloroethyl)ether	93	4.072	4.072	0.000	92	3985	0.0200	0.0176	
* 6 1,4-Dichlorobenzene-d4	152	4.344	4.344	0.000	100	30716	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	4.894	4.894	0.000	96	85458	0.4000	0.4545	
* 9 Naphthalene-d8	136	5.614	5.614	0.000	100	103406	0.2000	0.2000	
10 Naphthalene	128	5.633	5.633	0.000	100	11228	0.0200	0.0196	
12 Acenaphthylene	152	7.208	7.208	0.000	100	9071	0.0200	0.0190	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	98	49485	0.2000	0.2000	
14 Acenaphthene	154	7.385	7.385	0.000	98	7327	0.0200	0.0245	
15 Fluorene	166	7.899	7.899	0.000	84	5360	0.0200	0.0157	
16 4,6-Dinitro-2-methylphenol	198	7.944	7.944	0.000	85	10156	0.4000	0.5407	
$ 17 2,4,6-Tribromophenol	330	8.132	8.132	0.000	100	20533	0.4000	0.7621	
18 Hexachlorobenzene	284	8.441	8.441	0.000	97	1627	0.0200	0.0215	
19 Pentachlorophenol	266	8.632	8.632	0.000	1	1448	0.1000	0.0828	
* 20 Phenanthrene-d10	188	8.807	8.807	0.000	100	84672	0.2000	0.2000	
21 Phenanthrene	178	8.836	8.836	0.000	100	9200	0.0200	0.0200	
22 Anthracene	178	8.881	8.881	0.000	68	9466	0.0200	0.0206	
23 Fluoranthene	202	9.993	9.993	0.000	99	6996	0.0200	0.0177	
24 Pyrene	202	10.217	10.217	0.000	80	7517	0.0200	0.0250	
$ 25 Terphenyl-d14	244	10.373	10.373	0.000	100	95256	0.4000	0.4666	
26 Benzo[a]anthracene	228	11.529	11.529	0.000	87	4649	0.0200	0.0207	
* 27 Chrysene-d12	240	11.540	11.540	0.000	93	43997	0.2000	0.2000	
28 Chrysene	228	11.574	11.574	0.000	95	4928	0.0200	0.0225	
29 Benzo[b]fluoranthene	252	12.925	12.925	0.000	100	3051	0.0200	0.0164	
30 Benzo[k]fluoranthene	252	12.959	12.959	0.000	18	3795	0.0200	0.0206	
31 Benzo[a]pyrene	252	13.362	13.362	0.000	100	2675	0.0200	0.0185	
* 32 Perylene-d12	264	13.441	13.441	0.000	99	27411	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	14.929	14.929	0.000	95	1705	0.0200	0.0172	M
34 Dibenz(a,h)anthracene	278	14.963	14.963	0.000	96	1857	0.0200	0.0182	
35 Benzo[g,h,i]perylene	276	15.332	15.332	0.000	98	2132	0.0200	0.0199	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL3_00010 Amount Added: 1.00 Units: mL

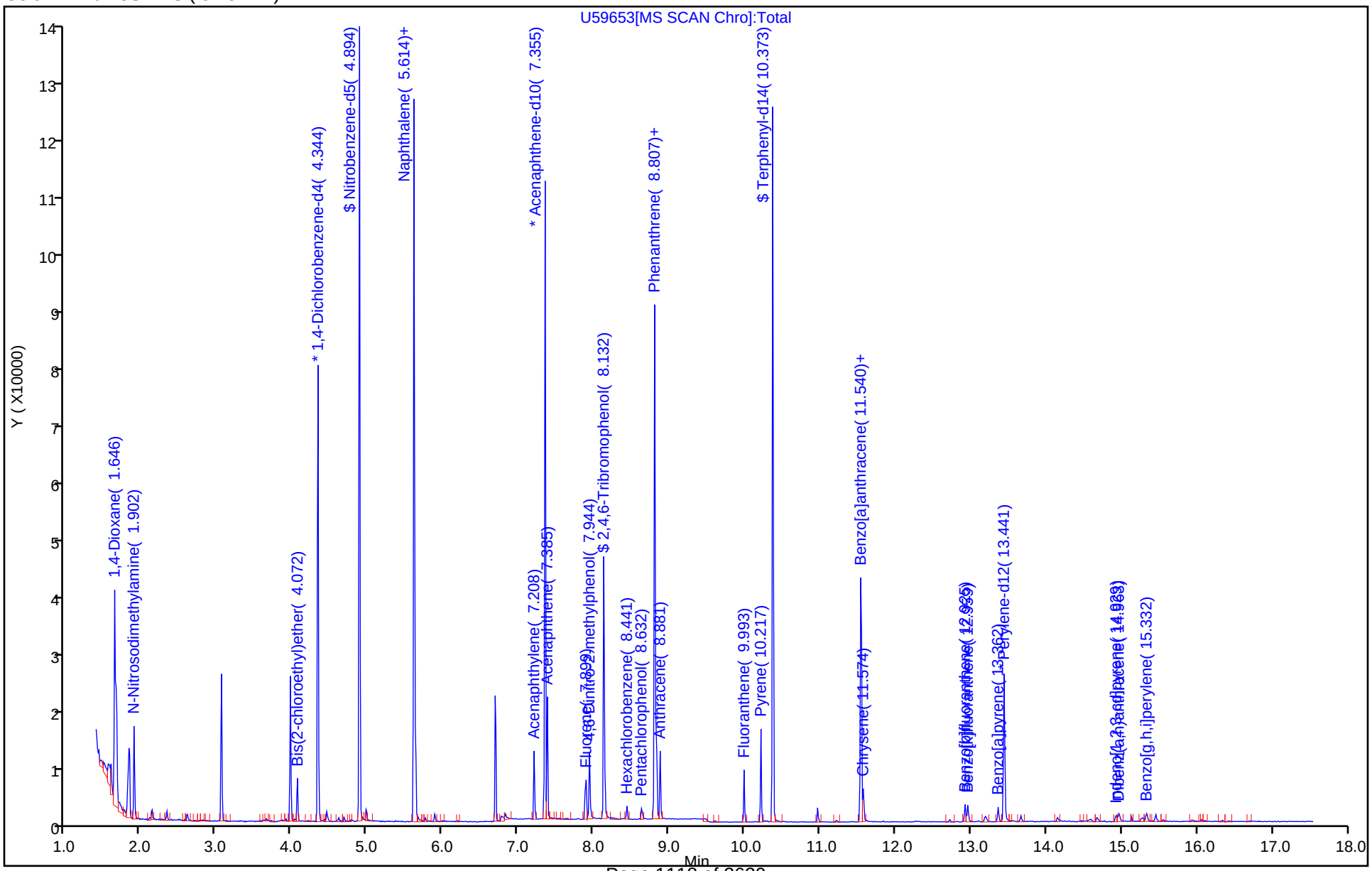
Report Date: 20-Mar-2018 15:21:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59653.D

Injection Date:	20-Mar-2018 11:29:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

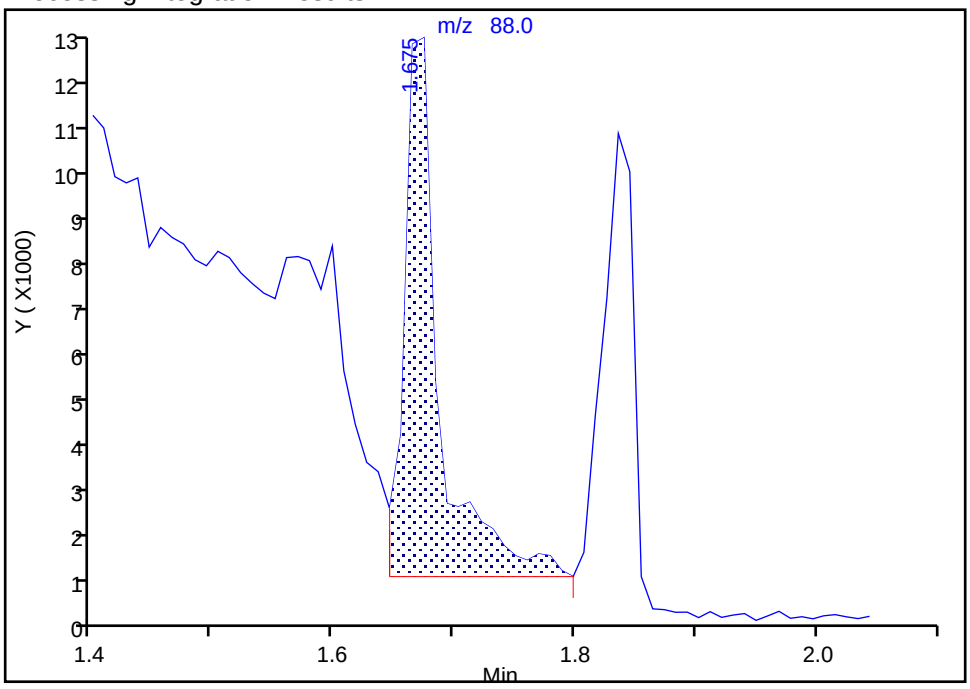
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59653.D
Injection Date: 20-Mar-2018 11:29:30 Instrument ID: CBNAMS4
Lims ID: ccvis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

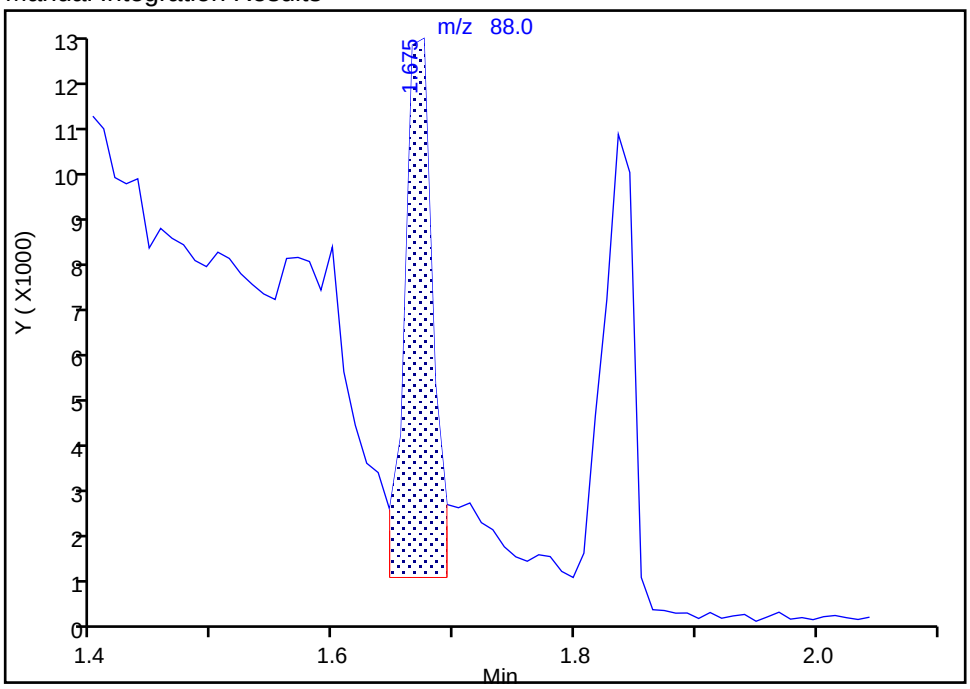
Processing Integration Results

RT: 1.67
Area: 22773
Amount: 0.257975
Amount Units: ug/ml



Manual Integration Results

RT: 1.67
Area: 18423
Amount: 0.208698
Amount Units: ug/ml



Reviewer: zhaoc, 20-Mar-2018 12:10:10
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Edison

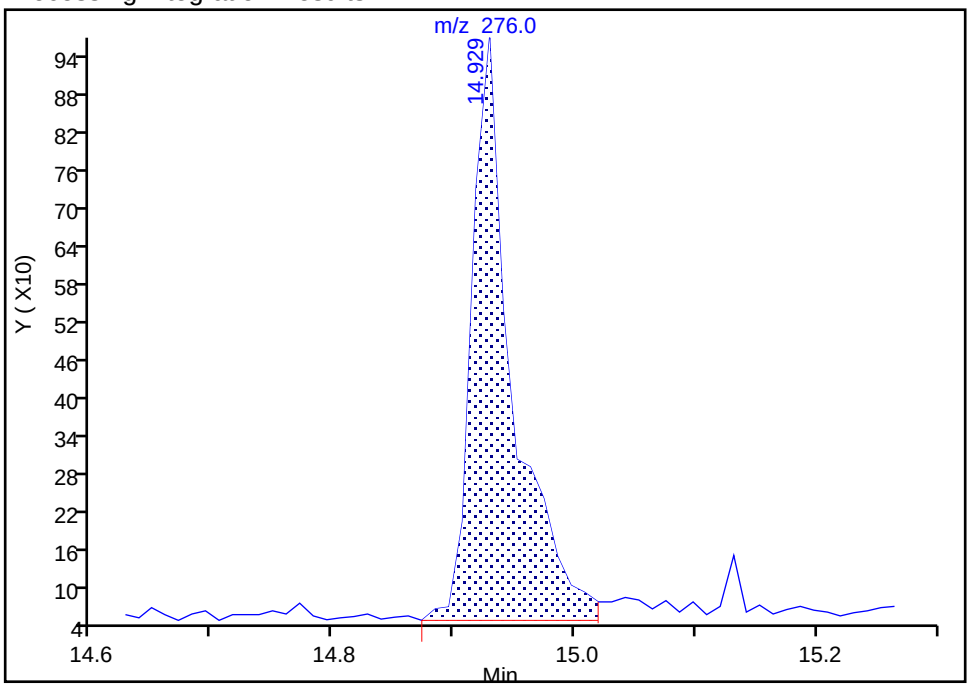
Data File:	\\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59653.D				
Injection Date:	20-Mar-2018 11:29:30	Instrument ID:	CBNAMS4		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

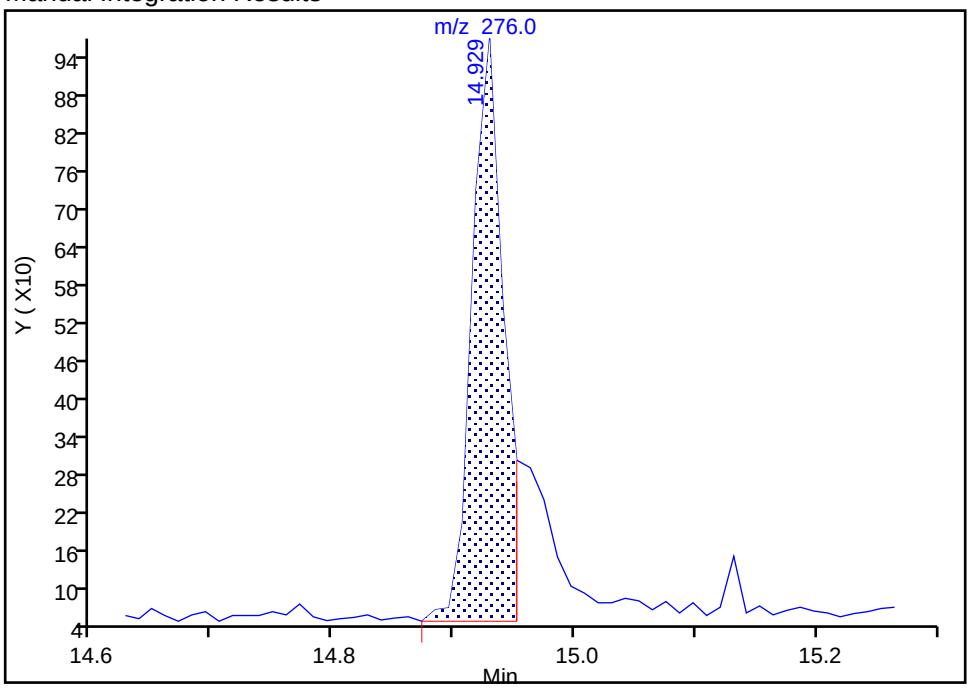
Processing Integration Results

RT: 14.93
Area: 2151
Amount: 0.021683
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 1705
Amount: 0.017187
Amount Units: ug/ml



Reviewer: zhaoc, 20-Mar-2018 12:10:29

Audit Action: Split an Integrated Peak Audit Reason: Other

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Mar-2018 11:42:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0068415-001
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Mar-2018 14:44:43 Calib Date: 06-Mar-2018 13:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59532.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: asfawa Date: 06-Mar-2018 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	5.528	5.528	0.000	0	137871	NR	NR	
37 DFTPP									
38 Benzidine_T	184	7.300	7.300	0.000	0	742002	NR	NR	
39 4,4'-DDE	246	7.533	7.533	0.000	0	568		NR	
40 4,4'-DDD	235	7.966	7.966	0.000	0	3625		NR	
41 4,4'-DDT	235	8.276	8.276	0.000	0	299951	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

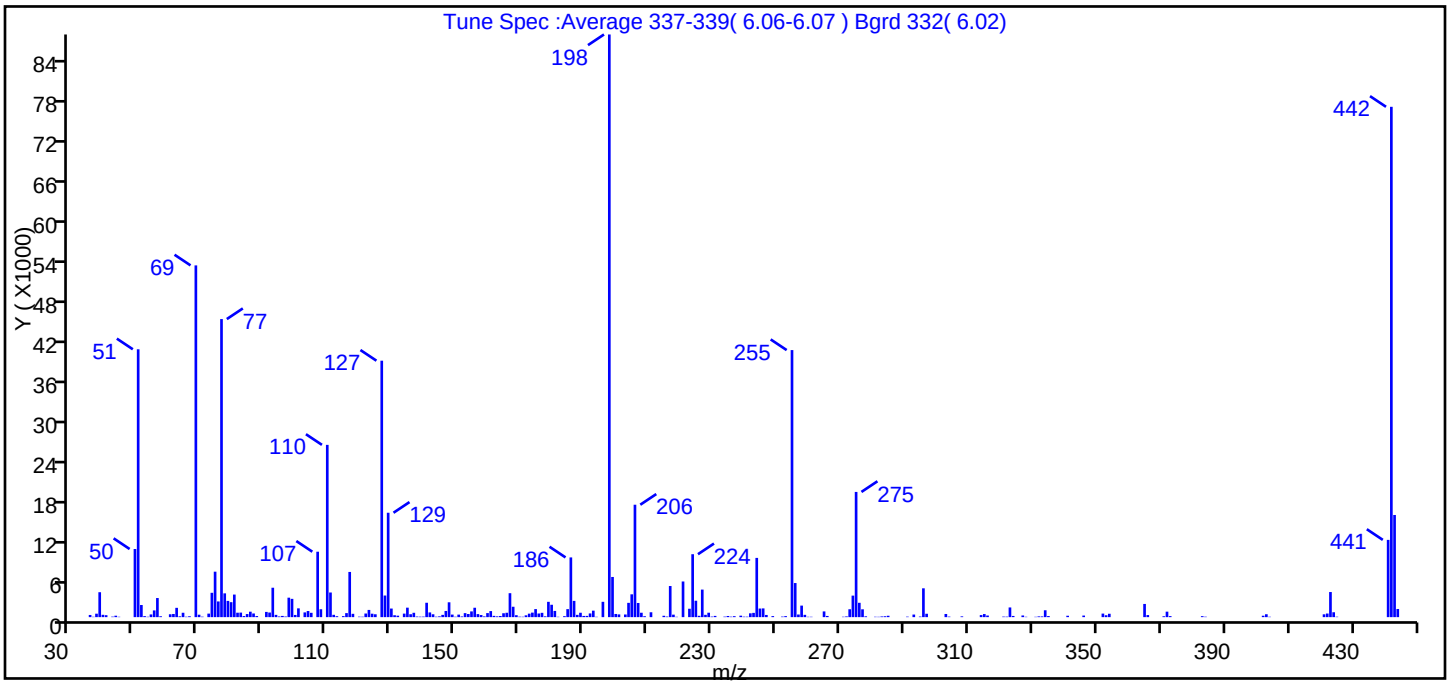
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D
Injection Date: 06-Mar-2018 11:42:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL
Tune Method: DFTPP Method 8270

37 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	46.0
68	<2% of mass 69	0.0 (0.0)
69	Present	60.4
70	<2% of mass 69	0.4 (0.7)
127	40-60% of mass 198	44.0
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	21.5
365	>1% of mass 198	2.3
441	Present but less than mass 443	13.3 (75.6)
442	>40% of mass 198	87.6
443	17-23% of mass 442	17.5 (20.0)

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D\Surr SIM_LVI_4.rslt\spectra.d
Injection Date: 06-Mar-2018 11:42:30
Spectrum: Tune Spec :Average 337-339(6.06-6.07) Bgrd 332(6.02)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	327	113.00	140	180.00	1857	260.00	54
37.00	54	115.00	154	181.00	932	261.00	55
38.00	517	116.00	606	182.00	55	265.00	860
39.00	3741	117.00	6784	184.00	145	266.00	180
40.00	351	118.00	499	185.00	1202	271.00	61
41.00	293	120.00	72	186.00	8964	272.00	106
43.00	77	121.00	64	187.00	2440	273.00	1186
44.00	215	122.00	543	188.00	343	274.00	3230
45.00	54	123.00	1084	189.00	660	275.00	18792
50.00	10224	124.00	515	190.00	181	276.00	2153
51.00	40200	125.00	432	191.00	187	277.00	1178
52.00	1820	127.00	38488	192.00	556	278.00	123
53.00	151	128.00	3244	193.00	973	281.00	58
54.00	57	129.00	15668	194.00	52	282.00	51
55.00	407	130.00	1291	196.00	2301	283.00	104
56.00	1009	131.00	285	198.00	87448	284.00	135
57.00	2869	132.00	219	199.00	6029	285.00	208
58.00	133	134.00	529	200.00	475	291.00	75
61.00	432	135.00	1422	201.00	410	293.00	389
62.00	475	136.00	438	203.00	399	295.00	85
63.00	1397	137.00	655	204.00	2145	296.00	4327
64.00	121	138.00	88	205.00	3425	297.00	507
65.00	658	139.00	71	206.00	16872	303.00	473
66.00	62	140.00	81	207.00	2125	304.00	80
67.00	132	141.00	2158	208.00	661	308.00	115
69.00	52792	142.00	707	209.00	138	314.00	310
70.00	365	143.00	430	211.00	732	315.00	465
71.00	71	144.00	66	215.00	205	316.00	242
73.00	529	145.00	119	216.00	87	321.00	81
74.00	3653	146.00	341	217.00	4672	322.00	73
75.00	6823	147.00	927	218.00	374	323.00	1455
76.00	2356	148.00	2228	219.00	51	324.00	180
77.00	44736	149.00	384	221.00	5352	327.00	250

Report Date: 06-Mar-2018 14:44:44 Chrom Revision: 2.2 08-Feb-2018 13:38:42
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D\Surr SIM_LVI_4.rslt\spectra.d
Injection Date: 06-Mar-2018 11:42:30
Spectrum: Tune Spec :Average 337-339(6.06-6.07) Bgrd 332(6.02)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 252

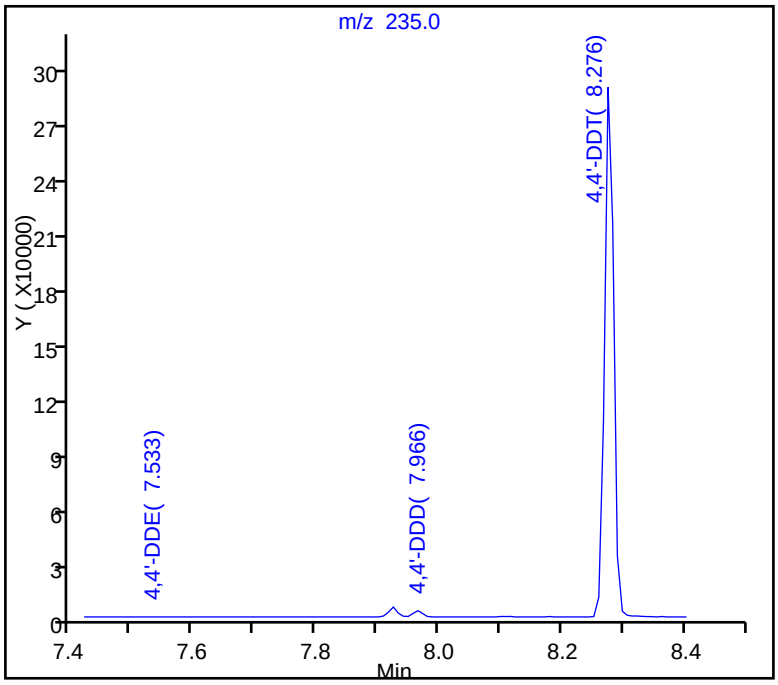
m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	3571	150.00	62	223.00	1259	328.00	55
79.00	2437	151.00	379	224.00	9444	331.00	50
80.00	2246	152.00	105	225.00	2464	332.00	113
81.00	3389	153.00	603	226.00	201	333.00	106
82.00	665	154.00	468	227.00	4136	334.00	1032
83.00	681	155.00	863	228.00	346	335.00	164
84.00	163	156.00	1410	229.00	664	341.00	209
85.00	463	157.00	457	230.00	83	346.00	237
86.00	819	158.00	316	231.00	187	352.00	534
87.00	549	159.00	109	234.00	76	353.00	285
88.00	162	160.00	609	235.00	173	354.00	507
91.00	785	161.00	907	236.00	72	365.00	1981
92.00	691	162.00	193	237.00	144	366.00	312
93.00	4414	163.00	118	239.00	220	371.00	131
94.00	341	164.00	168	240.00	71	372.00	823
95.00	102	165.00	585	241.00	69	373.00	155
96.00	183	166.00	657	242.00	574	383.00	147
97.00	91	167.00	3595	243.00	640	384.00	66
98.00	2921	168.00	1560	244.00	8891	402.00	213
99.00	2745	169.00	292	245.00	1291	403.00	436
100.00	329	170.00	73	246.00	1312	404.00	58
101.00	1320	171.00	61	247.00	328	421.00	425
103.00	713	172.00	272	249.00	155	422.00	543
104.00	917	173.00	523	252.00	84	423.00	3768
105.00	650	174.00	678	253.00	154	424.00	735
107.00	9819	175.00	1208	255.00	40080	425.00	65
108.00	1186	176.00	546	256.00	5117	441.00	11596
110.00	25856	177.00	648	257.00	395	442.00	76592
111.00	3698	178.00	119	258.00	1732	443.00	15332
112.00	349	179.00	2299	259.00	347	444.00	1224

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D
Injection Date: 06-Mar-2018 11:42:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

41 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

41 4,4'-DDT, Area = 299951
40 4,4'-DDD, Area = 3625
39 4,4'-DDE, Area = 568

%Breakdown: 1.38%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

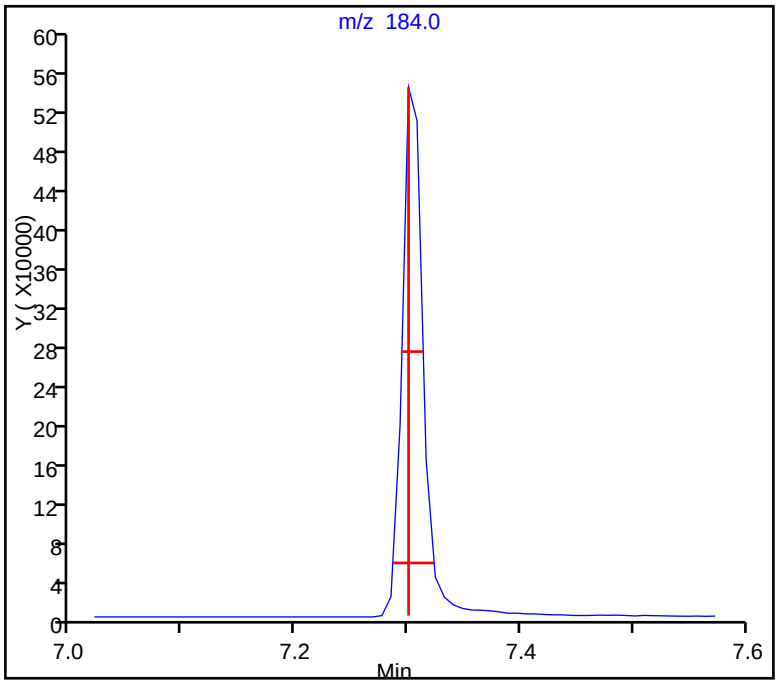
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D
Injection Date: 06-Mar-2018 11:42:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

38 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

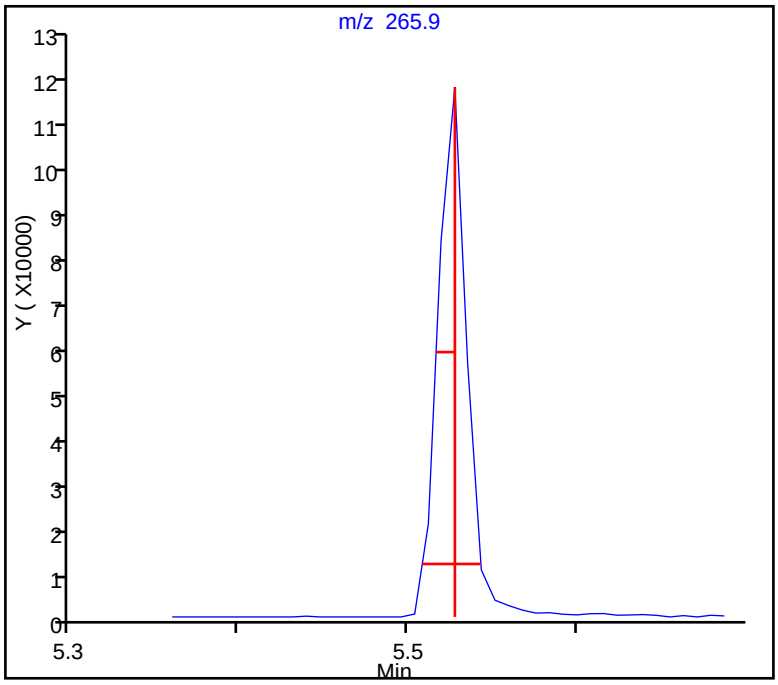
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59526.D
Injection Date: 06-Mar-2018 11:42:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 20-Mar-2018 10:32:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-001
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:20:03 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 15:20:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	5.129	5.129	0.000	0	279990	NR	NR	a
37 DFTPP									
38 Benzidine_T	184	6.919	6.919	0.000	0	1683627	NR	NR	
40 4,4'-DDD	235	7.573	7.573	0.000	0	7185		NR	
41 4,4'-DDT	235	7.895	7.895	0.000	0	679684	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

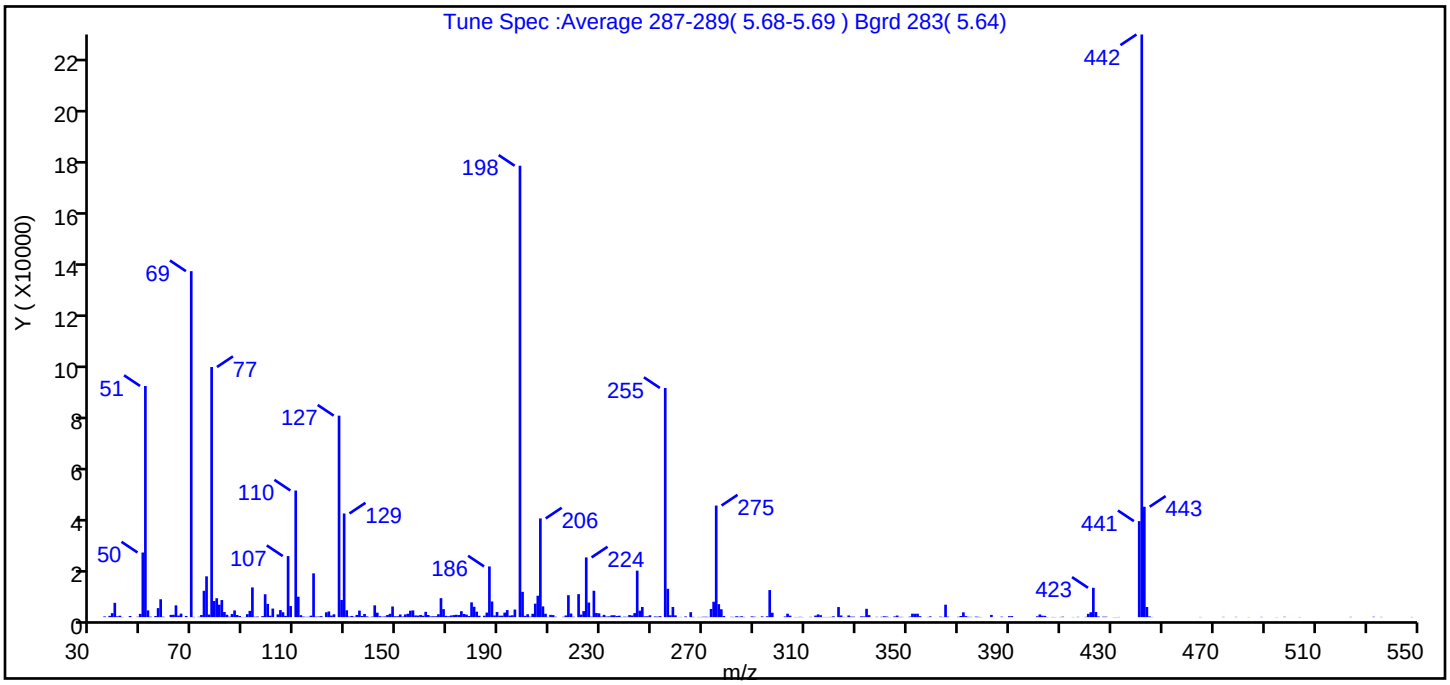
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D
Injection Date: 20-Mar-2018 10:32:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL
Tune Method: DFTPP Method 8270

37 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	51.2
68	<2% of mass 69	0.0 (0.0)
69	Present	76.6
70	<2% of mass 69	0.1 (0.1)
127	40-60% of mass 198	44.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	5.6
275	10-30% of mass 198	24.7
365	>1% of mass 198	2.8
441	Present but less than mass 443	21.3 (87.0)
442	>40% of mass 198	129.1
443	17-23% of mass 442	24.5 (18.9)

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D\Surr SIM_LVI_4.rslt\spectra.d
Injection Date: 20-Mar-2018 10:32:30
Spectrum: Tune Spec :Average 287-289(5.68-5.69) Bgrd 283(5.64)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	267	132.00	458	219.00	155	324.00	644
37.00	486	133.00	169	221.00	8717	325.00	83
38.00	1502	134.00	841	222.00	966	326.00	72
39.00	5425	135.00	2483	223.00	2286	327.00	640
40.00	313	136.00	444	224.00	22632	328.00	207
41.00	526	137.00	1191	225.00	5534	329.00	187
42.00	79	138.00	295	226.00	194	332.00	317
45.00	435	139.00	73	227.00	10011	333.00	267
48.00	152	140.00	206	228.00	1560	334.00	3159
49.00	1232	141.00	4474	229.00	1433	335.00	759
50.00	24496	142.00	1690	230.00	233	338.00	121
51.00	87576	143.00	354	231.00	868	340.00	155
52.00	2555	144.00	194	232.00	243	341.00	334
53.00	192	145.00	265	233.00	304	342.00	231
55.00	416	146.00	818	234.00	702	343.00	55
56.00	3430	147.00	1279	235.00	724	345.00	267
57.00	6777	148.00	4040	236.00	418	346.00	609
58.00	171	149.00	342	237.00	551	347.00	97
59.00	7	150.00	329	238.00	67	348.00	106
61.00	853	151.00	1017	239.00	180	351.00	203
62.00	894	152.00	262	240.00	144	352.00	1309
63.00	4463	153.00	1031	241.00	787	353.00	1293
64.00	597	154.00	1272	242.00	622	354.00	1300
65.00	1326	155.00	2452	243.00	1536	355.00	375
67.00	453	156.00	2548	244.00	17608	358.00	73
69.00	131072	157.00	650	245.00	2455	359.00	280
70.00	99	158.00	593	246.00	3848	363.00	179
72.00	137	159.00	815	247.00	314	364.00	81
73.00	813	160.00	528	248.00	336	365.00	4723
74.00	9973	161.00	2018	249.00	712	366.00	189
75.00	15462	162.00	805	251.00	252	370.00	138
76.00	983	163.00	295	252.00	204	371.00	433
77.00	94752	164.00	328	253.00	369	372.00	1829

Report Date: 20-Mar-2018 15:20:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D\Surr SIM_LVI_4.rslt\spectra.d
Injection Date: 20-Mar-2018 10:32:30
Spectrum: Tune Spec :Average 287-289(5.68-5.69) Bgrd 283(5.64)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	6122	165.00	340	255.00	86816	373.00	382
79.00	7159	166.00	1100	256.00	10729	374.00	132
80.00	4718	167.00	7202	257.00	704	375.00	105
81.00	6481	168.00	3041	258.00	3856	377.00	206
82.00	1935	169.00	491	259.00	679	378.00	120
83.00	913	170.00	345	261.00	92	379.00	61
84.00	175	171.00	635	263.00	266	383.00	846
85.00	1171	172.00	775	265.00	1877	387.00	180
86.00	2536	173.00	897	266.00	118	390.00	373
87.00	809	174.00	825	268.00	76	391.00	404
88.00	435	175.00	2259	269.00	83	401.00	327
89.00	48	176.00	1190	270.00	148	402.00	1018
90.00	86	177.00	969	271.00	160	403.00	551
91.00	1122	178.00	446	272.00	99	404.00	485
92.00	2372	179.00	5607	273.00	3100	405.00	61
93.00	11265	180.00	3926	274.00	5832	407.00	73
94.00	164	181.00	2067	275.00	42280	408.00	61
95.00	228	182.00	521	276.00	4920	410.00	73
97.00	397	184.00	527	277.00	2987	411.00	182
98.00	8680	185.00	1717	278.00	412	415.00	69
99.00	5007	186.00	19208	281.00	128	417.00	117
100.00	536	187.00	5923	282.00	87	420.00	110
101.00	3249	188.00	639	283.00	346	421.00	1253
102.00	35	189.00	1936	284.00	179	422.00	1847
103.00	1042	190.00	545	285.00	333	423.00	11123
104.00	2683	191.00	561	286.00	92	424.00	1933
105.00	1849	192.00	1723	289.00	280	425.00	265
106.00	471	193.00	2671	290.00	178	427.00	188
107.00	23136	194.00	576	291.00	17	428.00	173
108.00	4202	195.00	705	293.00	288	431.00	54
110.00	47968	196.00	2885	295.00	315	432.00	54
111.00	7746	198.00	171008	296.00	10263	433.00	78
112.00	738	199.00	9579	297.00	1657	441.00	36368
113.00	217	200.00	492	302.00	252	442.00	220736

Report Date: 20-Mar-2018 15:20:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D\Surr SIM_LVI_4.rslt\spectra.d
Injection Date: 20-Mar-2018 10:32:30
Spectrum: Tune Spec :Average 287-289(5.68-5.69) Bgrd 283(5.64)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

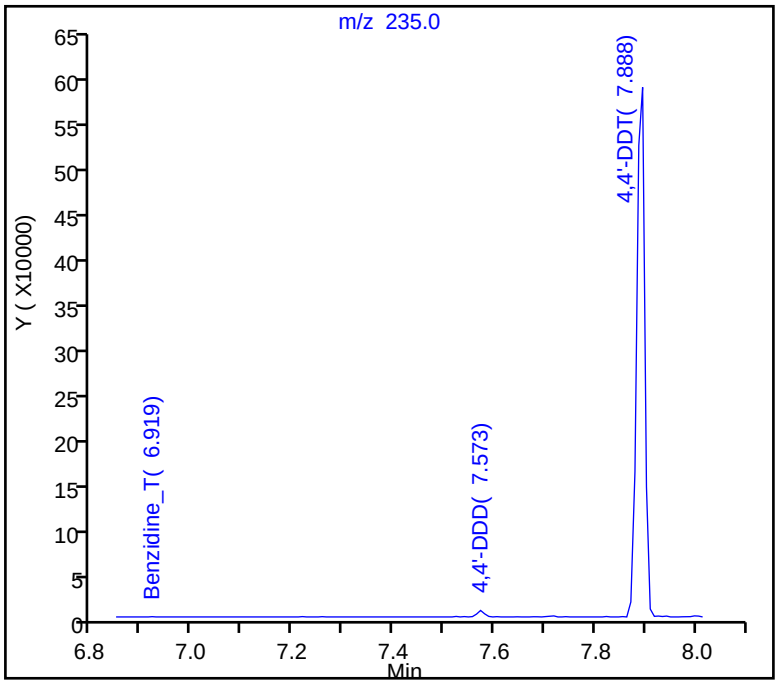
m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	111	201.00	1097	303.00	1299	443.00	41824
115.00	138	202.00	202	304.00	560	444.00	3851
116.00	558	203.00	1279	306.00	68	445.00	291
117.00	16592	204.00	5109	307.00	70	446.00	77
118.00	194	205.00	8110	308.00	123	465.00	75
119.00	219	206.00	37400	309.00	58	474.00	103
120.00	372	207.00	4066	312.00	109	479.00	104
122.00	1819	208.00	1279	314.00	595	484.00	61
123.00	2158	209.00	93	315.00	1029	489.00	104
124.00	594	210.00	864	316.00	738	495.00	54
125.00	1075	211.00	769	317.00	73	498.00	134
127.00	76336	212.00	154	318.00	69	504.00	74
128.00	6484	215.00	136	319.00	71	524.00	107
129.00	39272	216.00	627	320.00	97	533.00	158
130.00	2590	217.00	8318	321.00	320	536.00	87
131.00	250	218.00	1373	323.00	3827	548.00	78

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D
Injection Date: 20-Mar-2018 10:32:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

41 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

41 4,4'-DDT, Area = 679684
40 4,4'-DDD, Area = 7185
39 4,4'-DDE, Area = 0

%Breakdown: 1.05%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

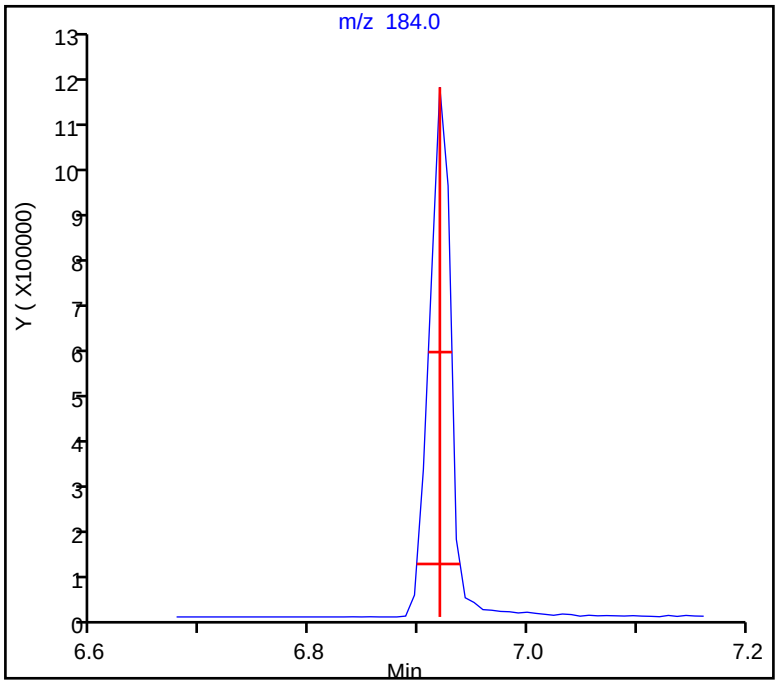
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D
Injection Date: 20-Mar-2018 10:32:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

38 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

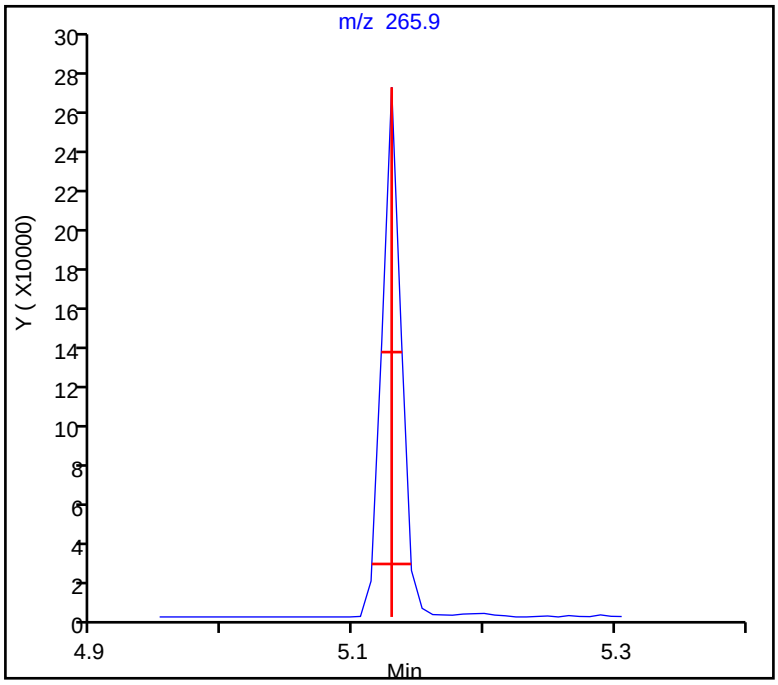
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59652.D
Injection Date: 20-Mar-2018 10:32:30 Instrument ID: CBNAMS4
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504508/1-A

Matrix: Water | Lab File ID: U59655.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/20/2018 12:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504754 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.044	U	0.40	0.044

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59655.D
Lims ID: MB 460-504508/1-A
Client ID:
Sample Type: MB
Inject. Date: 20-Mar-2018 12:19:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-004
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:30:35 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: zhaoc Date: 20-Mar-2018 13:00:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 6 1,4-Dichlorobenzene-d4	152	4.346	4.344	0.002	99	27285	0.2000	0.2000	
$ 7 Nitrobenzene-d5	82	4.896	4.894	0.002	96	1440850	10.0	8.81	
* 9 Naphthalene-d8	136	5.613	5.614	-0.001	100	89928	0.2000	0.2000	
$ 11 2-Fluorobiphenyl	172	6.771	6.779	-0.005	96	113415	10.0	0.4713	
* 13 Acenaphthene-d10	164	7.359	7.355	0.003	98	35927	0.2000	0.2000	
$ 17 2,4,6-Tribromophenol	330	8.133	8.132	0.001	97	412155	10.0	21.1	
* 20 Phenanthrene-d10	188	8.807	8.807	0.000	100	69097	0.2000	0.2000	
$ 25 Terphenyl-d14	244	10.376	10.373	0.003	100	1617174	10.0	9.22	
* 27 Chrysene-d12	240	11.541	11.540	0.001	90	37786	0.2000	0.2000	
* 32 Perylene-d12	264	13.435	13.441	-0.006	100	26540	0.2000	0.2000	

Reagents:

SM_SIMISTDLVI_00022 Amount Added: 20.00 Units: uL Run Reagent

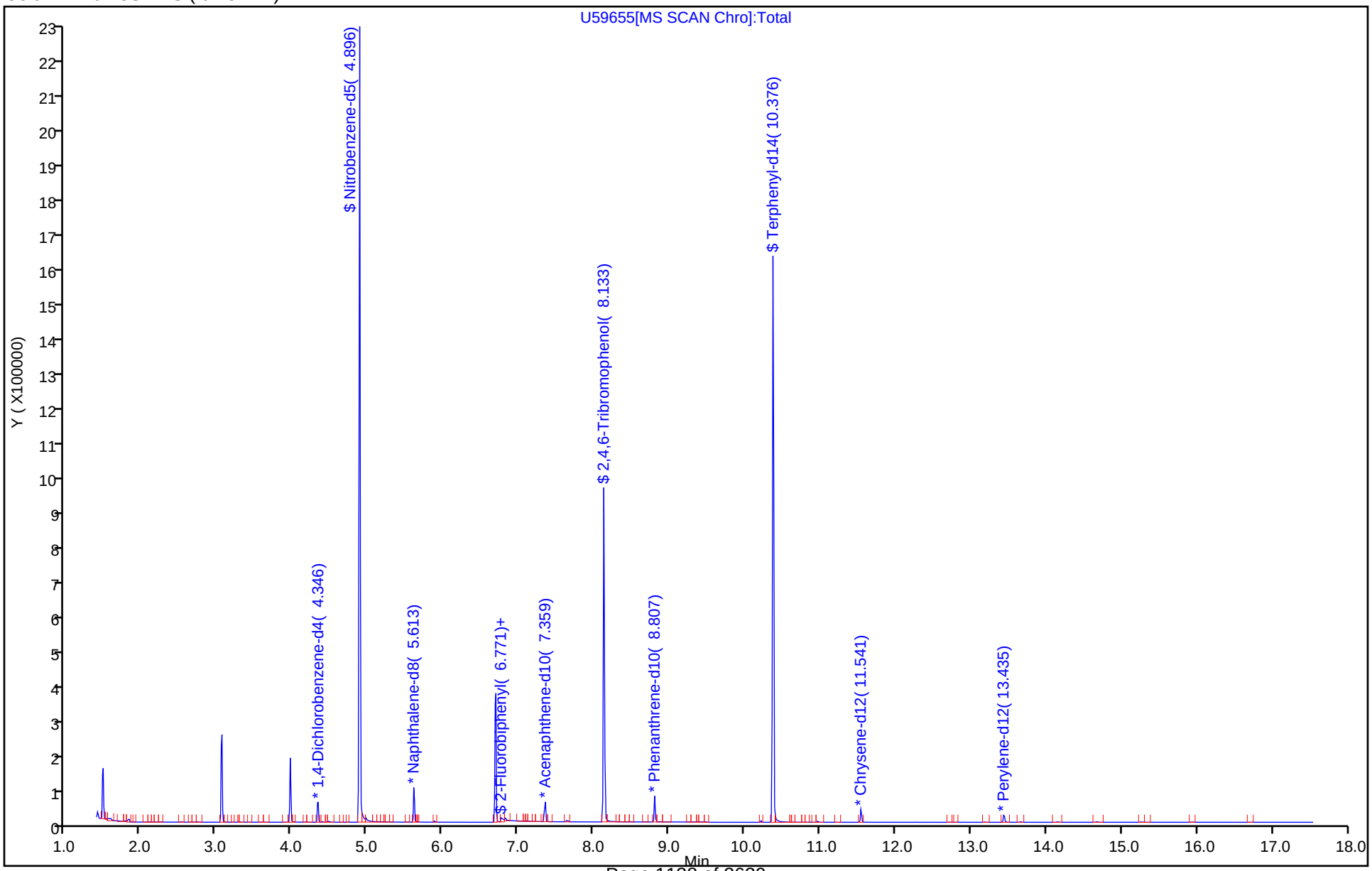
Report Date: 20-Mar-2018 15:31:25 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59655.D

Injection Date:	20-Mar-2018 12:19:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	MB 460-504508/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504508/6-A

Matrix: Water | Lab File ID: U59656.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/20/2018 12:40

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504754 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.880		0.40	0.044

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59656.D
Lims ID: LCS 460-504508/6-A
Client ID:
Sample Type: LCS
Inject. Date: 20-Mar-2018 12:40:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-005
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:27:26 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 15:27:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.682	1.675	0.007	81	8396	0.1000	0.1100	M
2 N-Nitrosodimethylamine	74	1.917	1.902	0.015	81	4051	0.1000	0.0452	
3 Bis(2-chloroethyl)ether	93	4.076	4.072	0.004	97	13584	0.1000	0.0693	
* 6 1,4-Dichlorobenzene-d4	152	4.340	4.344	-0.004	97	26555	0.2000	0.2000	
* 9 Naphthalene-d8	136	5.615	5.614	0.001	100	96361	0.2000	0.2000	
10 Naphthalene	128	5.633	5.633	0.000	100	30302	0.1000	0.0645	
12 Acenaphthylene	152	7.202	7.208	-0.006	99	25090	0.1000	0.0628	
* 13 Acenaphthene-d10	164	7.349	7.355	-0.006	94	41508	0.2000	0.2000	
14 Acenaphthene	154	7.378	7.385	-0.007	95	17590	0.1000	0.0702	
15 Fluorene	166	7.891	7.899	-0.008	95	22595	0.1000	0.0791	
16 4,6-Dinitro-2-methylphenol	198	7.949	7.944	0.005	91	2657	0.2000	0.2617	
18 Hexachlorobenzene	284	8.435	8.441	-0.006	90	4412	0.1000	0.0752	
19 Pentachlorophenol	266	8.641	8.633	0.008	80	924	0.2000	0.0699	
* 20 Phenanthrene-d10	188	8.801	8.807	-0.006	97	65618	0.2000	0.2000	
21 Phenanthrene	178	8.831	8.836	-0.005	100	37090	0.1000	0.1039	
22 Anthracene	178	8.874	8.881	-0.007	100	26281	0.1000	0.0737	
23 Fluoranthene	202	9.986	9.993	-0.007	100	30995	0.1000	0.1010	
24 Pyrene	202	10.210	10.219	-0.007	100	31820	0.1000	0.1025	
26 Benzo[a]anthracene	228	11.527	11.529	-0.002	100	23995	0.1000	0.1037	
* 27 Chrysene-d12	240	11.538	11.540	-0.002	99	45378	0.2000	0.2000	
28 Chrysene	228	11.572	11.574	-0.002	100	24357	0.1000	0.1080	
29 Benzo[b]fluoranthene	252	12.926	12.925	0.001	99	19656	0.1000	0.0829	
30 Benzo[k]fluoranthene	252	12.959	12.959	0.000	94	21508	0.1000	0.0913	
31 Benzo[a]pyrene	252	13.361	13.362	-0.001	100	14550	0.1000	0.0789	
* 32 Perylene-d12	264	13.440	13.441	-0.001	99	34970	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	14.919	14.919	-0.010	97	12745	0.1000	0.1007	M
34 Dibenz(a,h)anthracene	278	14.964	14.963	0.001	47	12117	0.1000	0.0931	
35 Benzo[g,h,i]perylene	276	15.322	15.332	-0.010	99	14583	0.1000	0.1069	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMISTDLVI_00022 Amount Added: 20.00 Units: uL Run Reagent

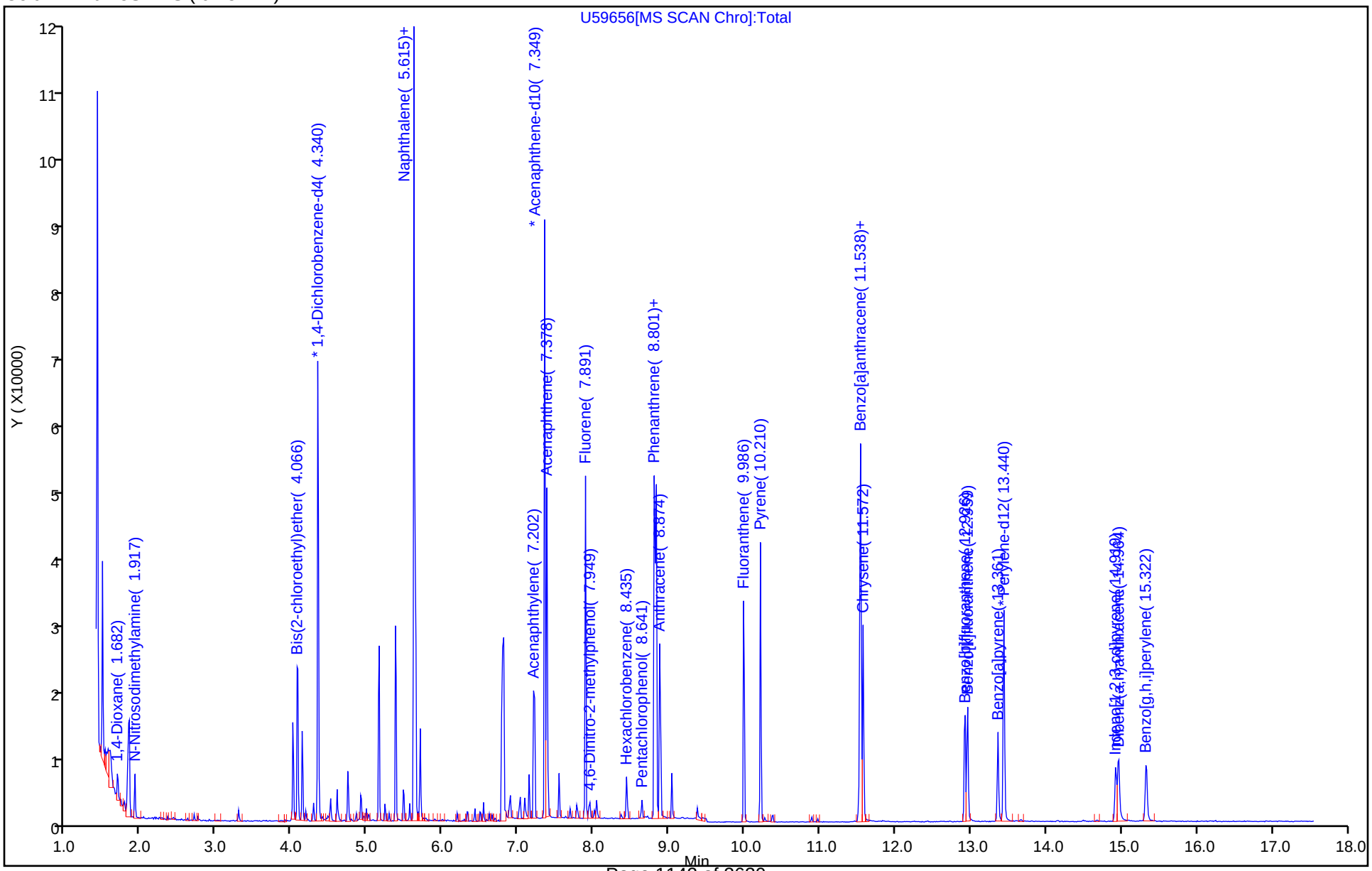
Report Date: 20-Mar-2018 15:27:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59656.D

Injection Date:	20-Mar-2018 12:40:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	LCS 460-504508/6-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

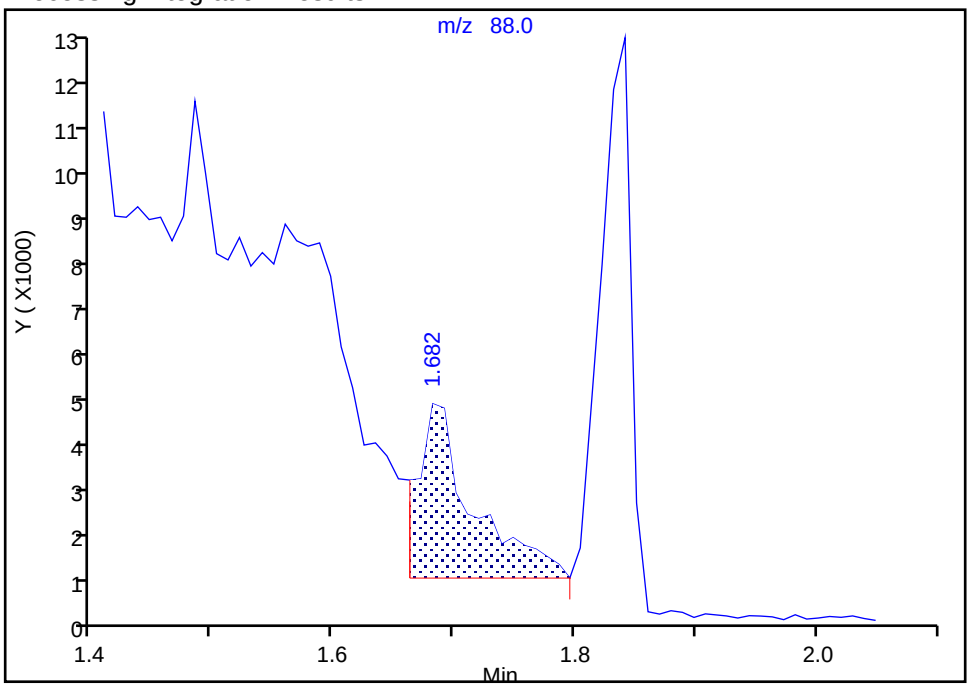
Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59656.D
Injection Date: 20-Mar-2018 12:40:30 Instrument ID: CBNAMS4
Lims ID: LCS 460-504508/6-A
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Surr SIM_LVI_4 Limit Group: SV 8270D SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

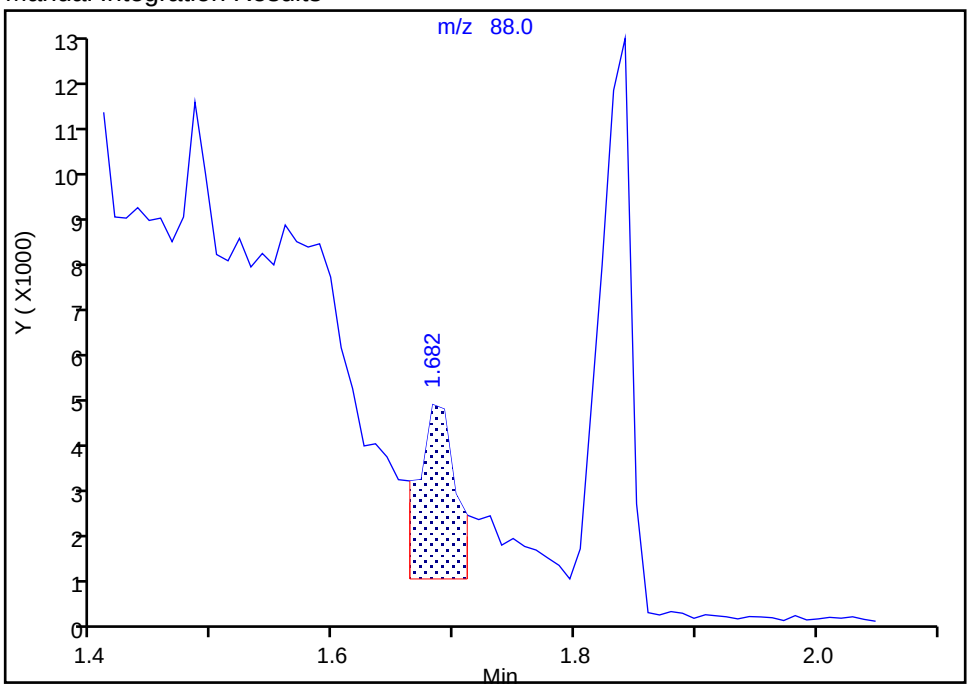
Processing Integration Results

RT: 1.68
Area: 11902
Amount: 0.155954
Amount Units: ug/ml



Manual Integration Results

RT: 1.68
Area: 8396
Amount: 0.110014
Amount Units: ug/ml



Reviewer: zhaoc, 20-Mar-2018 13:01:22
Audit Action: Split an Integrated Peak Audit Reason: Other

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504508/7-A

Matrix: Water | Lab File ID: U59657.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/19/2018 09:12

Sample wt/vol: 250(mL) | Date Analyzed: 03/20/2018 13:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 504754 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.990		0.40	0.044

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59657.D
Lims ID: LCSD 460-504508/7-A
Client ID:
Sample Type: LCSD
Inject. Date: 20-Mar-2018 13:02:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069037-006
Operator ID: Instrument ID: CBNAMS4

Method: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\Surr SIM_LVI_4.m
Limit Group: SV 8270D SIM ICAL
Last Update: 20-Mar-2018 15:28:24 Calib Date: 06-Mar-2018 15:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS4\20180306-68415.b\U59534.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: asfawa Date: 20-Mar-2018 15:28:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.692	1.675	0.017	96	9621	0.1000	0.1238	
2 N-Nitrosodimethylamine	74	1.918	1.902	0.016	88	3753	0.1000	0.0411	
3 Bis(2-chloroethyl)ether	93	4.073	4.072	0.001	99	13189	0.1000	0.0661	
* 6 1,4-Dichlorobenzene-d4	152	4.347	4.344	0.003	100	27046	0.2000	0.2000	
* 9 Naphthalene-d8	136	5.617	5.614	0.003	100	91180	0.2000	0.2000	
10 Naphthalene	128	5.636	5.633	0.003	100	30252	0.1000	0.0683	
12 Acenaphthylene	152	7.204	7.208	-0.004	99	28094	0.1000	0.0641	
* 13 Acenaphthene-d10	164	7.351	7.355	-0.004	96	45510	0.2000	0.2000	
14 Acenaphthene	154	7.380	7.385	-0.005	98	19089	0.1000	0.0695	
15 Fluorene	166	7.895	7.899	-0.005	90	19430	0.1000	0.0621	
16 4,6-Dinitro-2-methylphenol	198	7.938	7.944	-0.006	86	2543	0.2000	0.2360	a
18 Hexachlorobenzene	284	8.437	8.441	-0.004	97	5221	0.1000	0.0790	
19 Pentachlorophenol	266	8.643	8.633	0.011	50	1013	0.2000	0.0683	
* 20 Phenanthrene-d10	188	8.804	8.807	-0.003	100	73896	0.2000	0.2000	
21 Phenanthrene	178	8.833	8.836	-0.003	100	33420	0.1000	0.0831	
22 Anthracene	178	8.877	8.881	-0.004	98	32369	0.1000	0.0807	
23 Fluoranthene	202	9.989	9.993	-0.004	100	33239	0.1000	0.0962	
24 Pyrene	202	10.212	10.219	-0.005	99	33269	0.1000	0.1054	
26 Benzo[a]anthracene	228	11.524	11.529	-0.005	98	23694	0.1000	0.1008	
* 27 Chrysene-d12	240	11.547	11.540	0.007	89	46120	0.2000	0.2000	
28 Chrysene	228	11.569	11.574	-0.005	96	25947	0.1000	0.1132	
29 Benzo[b]fluoranthene	252	12.923	12.925	-0.002	100	19256	0.1000	0.0824	
30 Benzo[k]fluoranthene	252	12.957	12.959	-0.002	96	24015	0.1000	0.1034	
31 Benzo[a]pyrene	252	13.358	13.362	-0.004	100	15148	0.1000	0.0834	
* 32 Perylene-d12	264	13.437	13.441	-0.004	98	34473	0.2000	0.2000	
33 Indeno[1,2,3-cd]pyrene	276	14.915	14.915	-0.014	95	13112	0.1000	0.1051	M
34 Dibenz(a,h)anthracene	278	14.960	14.963	-0.003	98	12744	0.1000	0.0993	
35 Benzo[g,h,i]perylene	276	15.329	15.332	-0.003	99	13678	0.1000	0.1017	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_SIMISTDLVI_00022 Amount Added: 20.00 Units: uL Run Reagent

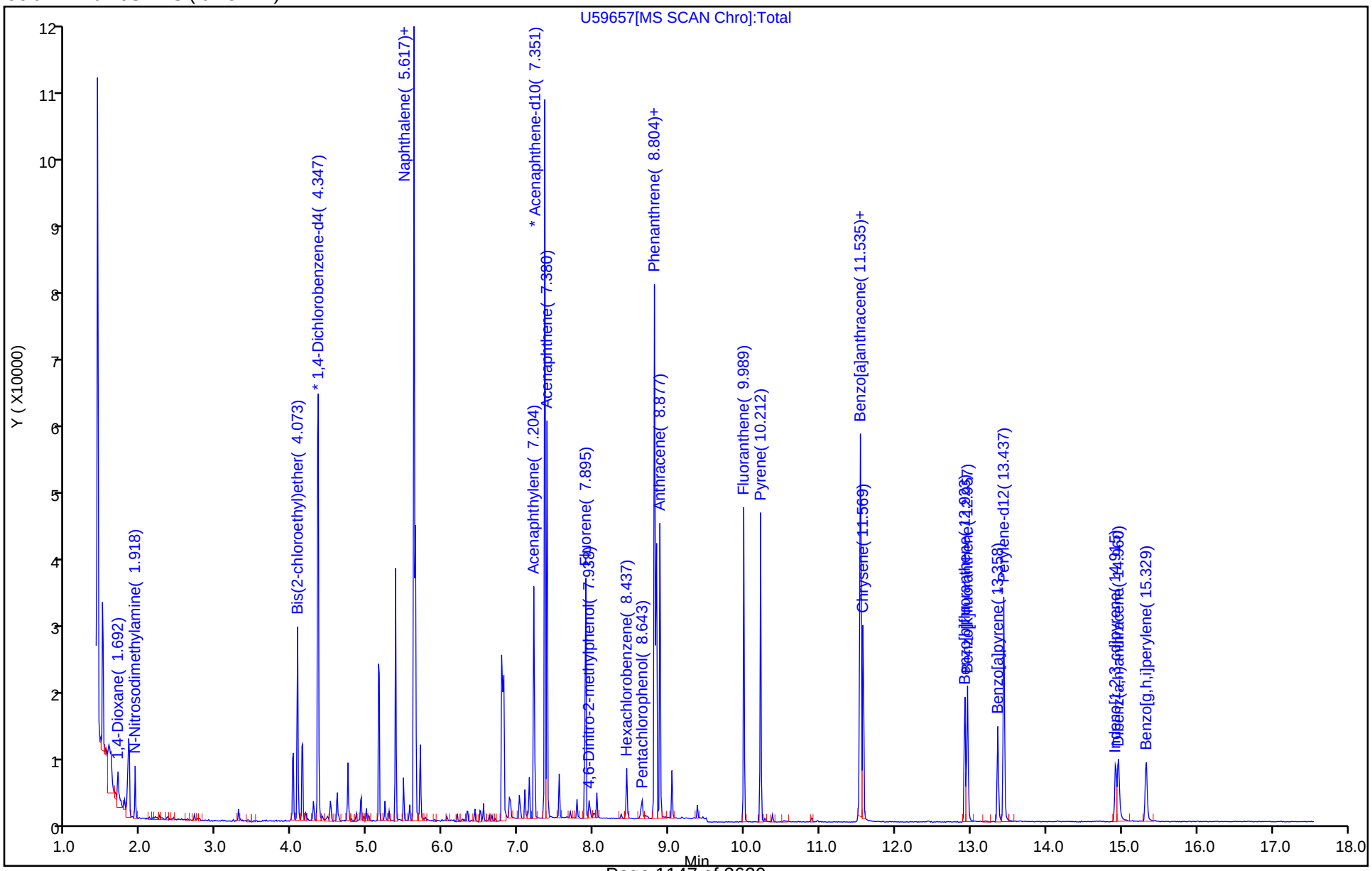
Report Date: 20-Mar-2018 15:28:24 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS4\20180320-69037.b\U59657.D

Injection Date:	20-Mar-2018 13:02:30	Instrument ID:	CBNAMS4	Operator ID:	
Lims ID:	LCSD 460-504508/7-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Surr SIM_LVI_4	Limit Group:	SV 8270D SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS4 Start Date: 03/06/2018 11:42

Analysis Batch Number: 501678 End Date: 03/06/2018 22:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-501678/1		03/06/2018 11:42	1	U59526.D	Rtxi-5Sil MS 0.25(mm)
STD6 460-501678/3 IC		03/06/2018 12:27	1	U59528.D	Rtxi-5Sil MS 0.25(mm)
STD5 460-501678/4 IC		03/06/2018 12:49	1	U59529.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-501678/5 IC		03/06/2018 13:10	1	U59530.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-501678/6 IC		03/06/2018 13:32	1	U59531.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-501678/7 IC		03/06/2018 13:54	1	U59532.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-501678/9		03/06/2018 15:25	1	U59534.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-501678/8		03/06/2018 16:45	1	U59535.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 17:08	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 17:30	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 19:25	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 19:47	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 20:09	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 20:31	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 20:53	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 21:14	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 21:36	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 21:58	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/06/2018 22:20	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CBNAMS4 Start Date: 03/20/2018 10:32

Analysis Batch Number: 504754 End Date: 03/20/2018 14:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-504754/1		03/20/2018 10:32	1	U59652.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-504754/2		03/20/2018 11:29	1	U59653.D	Rtxi-5Sil MS 0.25(mm)
MB 460-504508/1-A		03/20/2018 12:19	1	U59655.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-504508/6-A		03/20/2018 12:40	1	U59656.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-504508/7-A		03/20/2018 13:02	1	U59657.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 13:24	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 13:46	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 14:08	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		03/20/2018 14:30	1		Rtxi-5Sil MS 0.25(mm)
460-152136-1		03/20/2018 14:52	1	U59662.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504508 Batch Start Date: 03/19/18 09:11 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SIM SP 00013
MB 460-504508/1		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-504508/6		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
LCSD 460-504508/7		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
460-152136-H-1	Recharge Basin	3510C, 8270D SIM	T	240 mL	2 mL	6 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00014					
MB 460-504508/1		3510C, 8270D SIM		200 uL					
LCS 460-504508/6		3510C, 8270D SIM							
LCSD 460-504508/7		3510C, 8270D SIM							
460-152136-H-1	Recharge Basin	3510C, 8270D SIM	T	200 uL					

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2414
Batch Comment	3510C LVI 8270D
Analyst ID - Concentration	SZ
Equipment ID - Concentration 1	41888
Analyst ID - Extraction	SZ
Na2SO4 ID	171698
Pipette/Syringe/Dispenser ID	BNA
Prep Solvent ID	Methylene Chloride / 192637
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	SZ
Analyst ID - Spike Witness Analyst	AM
Sufficient Volume for Batch QC	Yes

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504508 Batch Start Date: 03/19/18 09:11 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8081B

Organochlorine Pesticides by Gas Chromatography

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
Ash Pit	460-152136-2	88	92	97	113
	MB 460-504832/1-A	89	92	87	95
	LCS 460-504832/2-A	90	95	92	99
	460-152046-E-4-G MS	70 X	93	73	98
	460-152046-E-4-H MSD	93	95	99	100

	QC LIMITS
TCX = Tetrachloro-m-xylene	74-150
DCBP = DCB Decachlorobiphenyl	69-150

Column to be used to flag recovery values

FORM II 8081B

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
Recharge Basin	460-152136-1	89	94	79	83
	MB 460-504710/1-A	80	81	76	80
	LCS 460-504710/2-A	100	91	88	92
	460-152194-I-4-A MS	101	90	90	94
	460-152194-J-4-A MSD	97	86	57	60

	QC LIMITS
TCX = Tetrachloro-m-xylene	12-136
DCBP = DCB Decachlorobiphenyl	10-150

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5F919148.D

Lab ID: LCS 460-504710/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	0.800	1.06	132	58-136	
4,4'-DDD	0.800	0.991	124	58-136	
4,4'-DDE	0.800	0.904	113	56-132	
4,4'-DDE	0.800	0.892	112	56-132	
4,4'-DDT	0.800	0.876	110	56-134	
4,4'-DDT	0.800	0.826	103	56-134	
Aldrin	0.800	0.892	111	52-125	
Aldrin	0.800	0.827	103	52-125	
alpha-BHC	0.800	0.892	111	57-133	
alpha-BHC	0.800	0.865	108	57-133	
beta-BHC	0.800	0.957	120	61-134	
beta-BHC	0.800	0.916	115	61-134	
delta-BHC	0.800	0.601	75	56-130	
delta-BHC	0.800	0.574	72	56-130	
Dieldrin	0.800	0.917	115	61-135	
Dieldrin	0.800	0.898	112	61-135	
Endosulfan I	0.800	0.957	120	61-134	
Endosulfan I	0.800	0.861	108	61-134	
Endosulfan II	0.800	0.951	119	61-133	
Endosulfan II	0.800	0.912	114	61-133	
Endosulfan sulfate	0.800	0.876	109	59-133	
Endosulfan sulfate	0.800	0.868	108	59-133	
Endrin	0.800	0.994	124	60-135	
Endrin	0.800	0.912	114	60-135	
Endrin aldehyde	0.800	0.935	117	59-130	
Endrin aldehyde	0.800	0.903	113	59-130	
Endrin ketone	0.800	0.997	125	60-137	
Endrin ketone	0.800	0.920	115	60-137	
gamma-BHC (Lindane)	0.800	0.899	112	59-131	
gamma-BHC (Lindane)	0.800	0.876	109	59-131	
Heptachlor	0.800	0.842	105	54-126	
Heptachlor	0.800	0.802	100	54-126	
Heptachlor epoxide	0.800	0.902	113	60-130	
Heptachlor epoxide	0.800	0.844	105	60-130	
Methoxychlor	0.800	0.845	106	57-133	
Methoxychlor	0.800	0.843	105	57-133	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4076563.D

Lab ID: LCS 460-504832/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	0.133	0.123	92	67-130	
4,4'-DDD	0.133	0.123	92	67-130	
4,4'-DDE	0.133	0.129	97	70-127	
4,4'-DDE	0.133	0.122	91	70-127	
4,4'-DDT	0.133	0.118	89	70-122	
4,4'-DDT	0.133	0.121	91	70-122	
Aldrin	0.133	0.119	89	66-137	
Aldrin	0.133	0.126	94	66-137	
alpha-BHC	0.133	0.125	94	65-142	
alpha-BHC	0.133	0.130	98	65-142	
beta-BHC	0.133	0.126	94	70-132	
beta-BHC	0.133	0.130	97	70-132	
delta-BHC	0.133	0.123	92	65-136	
delta-BHC	0.133	0.131	99	65-136	
Dieldrin	0.133	0.127	95	70-134	
Dieldrin	0.133	0.127	95	70-134	
Endosulfan I	0.133	0.126	94	70-136	
Endosulfan I	0.133	0.127	95	70-136	
Endosulfan II	0.133	0.122	91	72-127	
Endosulfan II	0.133	0.123	92	72-127	
Endosulfan sulfate	0.133	0.117	88	71-128	
Endosulfan sulfate	0.133	0.117	88	71-128	
Endrin	0.133	0.126	94	74-129	
Endrin	0.133	0.126	94	74-129	
Endrin aldehyde	0.133	0.118	88	71-129	
Endrin aldehyde	0.133	0.118	88	71-129	
Endrin ketone	0.133	0.127	95	68-135	
Endrin ketone	0.133	0.117	88	68-135	
gamma-BHC (Lindane)	0.133	0.120	90	68-136	
gamma-BHC (Lindane)	0.133	0.129	96	68-136	
Heptachlor	0.133	0.121	91	68-132	
Heptachlor	0.133	0.127	96	68-132	
Heptachlor epoxide	0.133	0.124	93	72-131	
Heptachlor epoxide	0.133	0.124	93	72-131	
Methoxychlor	0.133	0.120	90	63-135	
Methoxychlor	0.133	0.110	82	63-135	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5F919149.D

Lab ID: 460-152194-I-4-A MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
4,4'-DDD	0.800	0.0060 U	1.13	141	58-136	F1
4,4'-DDD	0.800	0.0060 U	1.07	133	58-136	
4,4'-DDE	0.800	0.0020 U	1.01	126	56-132	
4,4'-DDE	0.800	0.0020 U	0.977	122	56-132	
4,4'-DDT	0.800	0.0040 U	1.01	126	56-134	
4,4'-DDT	0.800	0.0040 U	0.971	121	56-134	
Aldrin	0.800	0.0030 U	0.922	115	52-125	
Aldrin	0.800	0.0030 U	0.866	108	52-125	
alpha-BHC	0.800	0.0070 U	1.01	126	57-133	
alpha-BHC	0.800	0.0070 U	0.980	123	57-133	
beta-BHC	0.800	0.0040 U	1.07	134	61-134	
beta-BHC	0.800	0.0040 U	1.05	131	61-134	
delta-BHC	0.800	0.0050 U	0.666	83	56-130	
delta-BHC	0.800	0.0050 U	0.645	81	56-130	
Dieldrin	0.800	0.0030 U	1.02	128	61-135	
Dieldrin	0.800	0.0030 U	1.01	126	61-135	
Endosulfan I	0.800	0.0020 U	1.04	130	61-134	
Endosulfan I	0.800	0.0020 U	0.966	121	61-134	
Endosulfan II	0.800	0.0040 U	1.07	133	61-133	
Endosulfan II	0.800	0.0040 U	1.02	128	61-133	
Endosulfan sulfate	0.800	0.0060 U	1.05	131	59-133	
Endosulfan sulfate	0.800	0.0060 U	0.975	122	59-133	
Endrin	0.800	0.0040 U	1.14	142	60-135	F1
Endrin	0.800	0.0040 U	1.04	131	60-135	
Endrin aldehyde	0.800	0.0080 U	0.996	124	59-130	
Endrin aldehyde	0.800	0.0080 U	0.982	123	59-130	
Endrin ketone	0.800	0.0080 U	1.11	139	60-137	F1
Endrin ketone	0.800	0.0080 U	1.05	131	60-137	
gamma-BHC (Lindane)	0.800	0.012 U	1.02	128	59-131	
gamma-BHC (Lindane)	0.800	0.012 U	1.01	126	59-131	
Heptachlor	0.800	0.0030 U	0.889	111	54-126	
Heptachlor	0.800	0.0030 U	0.858	107	54-126	
Heptachlor epoxide	0.800	0.0050 U	1.00	126	60-130	
Heptachlor epoxide	0.800	0.0050 U	0.939	117	60-130	
Methoxychlor	0.800	0.0040 U	0.906	113	57-133	
Methoxychlor	0.800	0.0040 U	1.06	132	57-133	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4076582.D

Lab ID: 460-152046-E-4-G MS Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	0.148	0.0013 U	0.148	100	67-130	
4,4'-DDD	0.148	0.0013 U	0.113	77	67-130	
4,4'-DDE	0.148	0.00088 U	0.146	99	70-127	
4,4'-DDE	0.148	0.00088 U	0.117	79	70-127	
4,4'-DDT	0.148	0.0014 U	0.136	92	70-122	
4,4'-DDT	0.148	0.0014 U	0.114	77	70-122	
Aldrin	0.148	0.0011 U	0.133	90	66-137	
Aldrin	0.148	0.0011 U	0.117	79	66-137	
alpha-BHC	0.148	0.00075 U	0.143	97	65-142	
alpha-BHC	0.148	0.00075 U	0.121	82	65-142	
beta-BHC	0.148	0.00083 U	0.145	98	70-132	
beta-BHC	0.148	0.00083 U	0.121	82	70-132	
delta-BHC	0.148	0.00045 U	0.139	94	65-136	
delta-BHC	0.148	0.00045 U	0.124	84	65-136	
Dieldrin	0.148	0.00096 U	0.146	99	70-134	
Dieldrin	0.148	0.00096 U	0.119	80	70-134	
Endosulfan I	0.148	0.0011 U	0.142	96	70-136	
Endosulfan I	0.148	0.0011 U	0.118	80	70-136	
Endosulfan II	0.148	0.0019 U	0.143	97	72-127	
Endosulfan II	0.148	0.0019 U	0.116	78	72-127	
Endosulfan sulfate	0.148	0.00093 U	0.138	93	71-128	
Endosulfan sulfate	0.148	0.00093 U	0.107	73	71-128	
Endrin	0.148	0.0011 U	0.147	100	74-129	
Endrin	0.148	0.0011 U	0.116	79	74-129	
Endrin aldehyde	0.148	0.0018 U	0.137	93	71-129	
Endrin aldehyde	0.148	0.0018 U	0.114	77	71-129	
Endrin ketone	0.148	0.0014 U	0.146	99	68-135	
Endrin ketone	0.148	0.0014 U	0.107	73	68-135	
gamma-BHC (Lindane)	0.148	0.00069 U	0.139	94	68-136	
gamma-BHC (Lindane)	0.148	0.00069 U	0.120	81	68-136	
Heptachlor	0.148	0.00088 U	0.133	90	68-132	
Heptachlor	0.148	0.00088 U	0.118	80	68-132	
Heptachlor epoxide	0.148	0.0011 U	0.139	94	72-131	
Heptachlor epoxide	0.148	0.0011 U	0.116	79	72-131	
Methoxychlor	0.148	0.0017 U	0.140	94	63-135	
Methoxychlor	0.148	0.0017 U	0.102	69	63-135	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5F919150.D

Lab ID: 460-152194-J-4-A MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	0.800	1.19	149	6	30	58-136	F1
4,4'-DDD	0.800	1.10	137	3	30	58-136	F1
4,4'-DDE	0.800	1.08	135	6	30	56-132	F1
4,4'-DDE	0.800	0.925	116	6	30	56-132	
4,4'-DDT	0.800	0.991	124	2	30	56-134	
4,4'-DDT	0.800	0.926	116	5	30	56-134	
Aldrin	0.800	0.924	116	0	30	52-125	
Aldrin	0.800	0.838	105	3	30	52-125	
alpha-BHC	0.800	1.09	136	7	30	57-133	F1
alpha-BHC	0.800	1.03	129	5	30	57-133	
beta-BHC	0.800	1.17	146	9	30	61-134	F1
beta-BHC	0.800	1.11	138	6	30	61-134	F1
delta-BHC	0.800	0.723	90	8	30	56-130	
delta-BHC	0.800	0.675	84	5	30	56-130	
Dieldrin	0.800	1.09	136	6	30	61-135	F1
Dieldrin	0.800	1.04	130	3	30	61-135	
Endosulfan I	0.800	1.01	127	3	30	61-134	
Endosulfan I	0.800	1.00	125	4	30	61-134	
Endosulfan II	0.800	1.15	143	7	30	61-133	F1
Endosulfan II	0.800	1.07	134	5	30	61-133	F1
Endosulfan sulfate	0.800	1.09	137	4	30	59-133	F1
Endosulfan sulfate	0.800	1.04	130	6	30	59-133	
Endrin	0.800	1.23	154	7	30	60-135	F1
Endrin	0.800	1.09	136	4	30	60-135	F1
Endrin aldehyde	0.800	1.08	135	8	30	59-130	F1
Endrin aldehyde	0.800	1.06	133	8	30	59-130	F1
Endrin ketone	0.800	1.20	150	7	30	60-137	F1
Endrin ketone	0.800	1.12	140	6	30	60-137	F1
gamma-BHC (Lindane)	0.800	1.10	137	7	30	59-131	F1
gamma-BHC (Lindane)	0.800	1.05	131	4	30	59-131	
Heptachlor	0.800	0.907	113	2	30	54-126	
Heptachlor	0.800	0.844	105	2	30	54-126	
Heptachlor epoxide	0.800	1.07	134	6	30	60-130	F1
Heptachlor epoxide	0.800	0.975	122	4	30	60-130	
Methoxychlor	0.800	0.715	89	38	30	57-133	p F2
Methoxychlor	0.800	1.12	140	21	30	57-133	F1

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4076583.D

Lab ID: 460-152046-E-4-H MSD Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	0.148	0.152	103	29	30	67-130	
4,4'-DDD	0.148	0.160	109	8	30	67-130	
4,4'-DDE	0.148	0.152	103	26	30	70-127	
4,4'-DDE	0.148	0.162	110	10	30	70-127	
4,4'-DDT	0.148	0.141	96	21	30	70-122	
4,4'-DDT	0.148	0.156	105	13	30	70-122	
Aldrin	0.148	0.140	95	18	30	66-137	
Aldrin	0.148	0.156	106	16	30	66-137	
alpha-BHC	0.148	0.148	100	20	30	65-142	
alpha-BHC	0.148	0.162	110	12	30	65-142	
beta-BHC	0.148	0.147	99	19	30	70-132	
beta-BHC	0.148	0.162	109	11	30	70-132	
delta-BHC	0.148	0.145	98	16	30	65-136	
delta-BHC	0.148	0.166	112	18	30	65-136	
Dieldrin	0.148	0.151	102	24	30	70-134	
Dieldrin	0.148	0.161	109	9	30	70-134	
Endosulfan I	0.148	0.148	100	23	30	70-136	
Endosulfan I	0.148	0.163	111	14	30	70-136	
Endosulfan II	0.148	0.144	98	22	30	72-127	
Endosulfan II	0.148	0.156	106	9	30	72-127	
Endosulfan sulfate	0.148	0.145	98	30	30	71-128	
Endosulfan sulfate	0.148	0.150	101	8	30	71-128	
Endrin	0.148	0.152	103	27	30	74-129	
Endrin	0.148	0.162	109	10	30	74-129	
Endrin aldehyde	0.148	0.143	97	22	30	71-129	
Endrin aldehyde	0.148	0.155	105	12	30	71-129	
Endrin ketone	0.148	0.153	104	5	30	68-135	
Endrin ketone	0.148	0.151	102	34	30	68-135	F2
gamma-BHC (Lindane)	0.148	0.143	97	17	30	68-136	
gamma-BHC (Lindane)	0.148	0.161	109	15	30	68-136	
Heptachlor	0.148	0.140	95	17	30	68-132	
Heptachlor	0.148	0.159	107	17	30	68-132	
Heptachlor epoxide	0.148	0.145	98	22	30	72-131	
Heptachlor epoxide	0.148	0.159	107	13	30	72-131	
Methoxychlor	0.148	0.144	97	3	30	63-135	
Methoxychlor	0.148	0.142	96	33	30	63-135	F2

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: MB 460-504710/1-A

Matrix: Water Date Extracted: 03/20/2018 08:11

Lab File ID:(1) 5F919147.D Lab File ID:(2) 5F919147.D

Date Analyzed:(1) 03/21/2018 09:08 Date Analyzed:(2) 03/21/2018 09:08

Instrument ID:(1) CPESTGC5 Instrument ID:(2) CPESTGC5

GC Column:(1) Rtx-CLP ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-504710/2-A	03/21/2018 09:21	03/21/2018 09:21
	460-152194-I-4-A MS	03/21/2018 09:34	03/21/2018 09:34
	460-152194-J-4-A MSD	03/21/2018 09:47	03/21/2018 09:47
Recharge Basin	460-152136-1	03/21/2018 14:46	03/21/2018 14:46

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: MB 460-504832/1-A

Matrix: Solid Date Extracted: 03/20/2018 14:42

Lab File ID:(1) P4076562.D Lab File ID:(2) P4076562.D

Date Analyzed:(1) 03/22/2018 10:13 Date Analyzed:(2) 03/22/2018 10:13

Instrument ID:(1) CPESTGC4 Instrument ID:(2) CPESTGC4

GC Column:(1) Rtx-CLP ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-504832/2-A	03/22/2018 10:25	03/22/2018 10:25
Ash Pit	460-152136-2	03/22/2018 11:24	03/22/2018 11:24
	460-152046-E-4-G MS	03/22/2018 14:14	03/22/2018 14:14
	460-152046-E-4-H MSD	03/22/2018 14:27	03/22/2018 14:27

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD 460-465107/5 Date Analyzed: 09/27/2017 08:46

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4004884.D Heated Purge: (Y/N) N

Calibration ID: 64207

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		31440597	1.68				
UPPER LIMIT		62881194	1.75				
LOWER LIMIT		15720299	1.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-465107/8		31405718	1.68				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD 460-465107/5 Date Analyzed: 09/27/2017 08:46

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): P4004884.D Heated Purge: (Y/N) N

Calibration ID: 64208

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		41941013	1.51				
UPPER LIMIT		83882026	1.58				
LOWER LIMIT		20970507	1.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-465107/8		39607967	1.51				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505161/3 Date Analyzed: 03/22/2018 09:30

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4076559.D Heated Purge: (Y/N) N

Calibration ID: 64225

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		51408396	1.56				
UPPER LIMIT		102816792	1.63				
LOWER LIMIT		25704198	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505161/4		49484640	1.56				
CCV 460-505161/5		42382234	1.56				
MB 460-504832/1-A		42712669	1.57				
LCS 460-504832/2-A		44020978	1.56				
460-152136-2	Ash Pit	40830279	1.56				
460-152046-E-4-G MS		42601606	1.57				
460-152046-E-4-H MSD		40654325	1.56				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505161/3 Date Analyzed: 03/22/2018 09:30

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): P4076559.D Heated Purge: (Y/N) N

Calibration ID: 64226

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		68215649	1.40				
UPPER LIMIT		136431298	1.47				
LOWER LIMIT		34107825	1.33				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505161/4		63109675	1.41				
CCV 460-505161/5		55082915	1.41				
MB 460-504832/1-A		54620350	1.41				
LCS 460-504832/2-A		58391675	1.41				
460-152136-2	Ash Pit	51345092	1.41				
460-152046-E-4-G MS		69400877	1.41				
460-152046-E-4-H MSD		50804699	1.41				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD 460-495906/5 Date Analyzed: 02/08/2018 15:33

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): 5F917982.D Heated Purge: (Y/N) N

Calibration ID: 66472

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		106430102	1.68				
UPPER LIMIT		212860204	1.75				
LOWER LIMIT		53215051	1.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-495906/9		105146058	1.68				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: STD 460-495906/5 Date Analyzed: 02/08/2018 15:33

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): 5F917982.D Heated Purge: (Y/N) N

Calibration ID: 66473

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		51235598	1.69				
UPPER LIMIT		102471196	1.76				
LOWER LIMIT		25617799	1.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-495906/9		53812659	1.70				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505044/3 Date Analyzed: 03/21/2018 07:23

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): 5F919144.D Heated Purge: (Y/N) N

Calibration ID: 66490

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		155622150	1.66				
UPPER LIMIT		311244300	1.73				
LOWER LIMIT		77811075	1.59				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505044/4		155280671	1.66				
CCV 460-505044/5		119331618	1.66				
MB 460-504710/1-A		126134875	1.66				
LCS 460-504710/2-A		116668864	1.66				
460-152194-I-4-A MS		106746238	1.66				
460-152194-J-4-A MSD		114494836	1.66				
460-152136-1	Recharge Basin	109767419	1.67				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505044/3 Date Analyzed: 03/21/2018 07:23

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): 5F919144.D Heated Purge: (Y/N) N

Calibration ID: 66491

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		75663969	1.67				
UPPER LIMIT		151327938	1.74				
LOWER LIMIT		37831985	1.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 460-505044/4		75457918	1.68				
CCV 460-505044/5		59402791	1.68				
MB 460-504710/1-A		64383966	1.68				
LCS 460-504710/2-A		58543637	1.68				
460-152194-I-4-A MS		53268044	1.68				
460-152194-J-4-A MSD		57984008	1.68				
460-152136-1	Recharge Basin	56678449	1.68				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-504710/2-A

Instrument ID (1): CPESTGC5 Instrument ID (2): CPESTGC5

Date Analyzed (1): 03/21/2018 09:21 Date Analyzed (2): 03/21/2018 09:21

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.38	2.37	2.39	0.865		3.0
	2		2.37	2.36	2.38	0.892		
gamma-BHC (Lindane)	1		2.58	2.56	2.58	0.876		2.6
	2		2.57	2.55	2.57	0.899		
beta-BHC	1		2.62	2.61	2.63	0.916		4.3
	2		2.61	2.60	2.62	0.957		
delta-BHC	1		2.75	2.73	2.75	0.574		4.6
	2		2.73	2.72	2.74	0.601		
Heptachlor	1		2.89	2.88	2.90	0.802		4.9
	2		2.88	2.86	2.88	0.842		
Aldrin	1		3.11	3.10	3.12	0.827		7.6
	2		3.10	3.09	3.11	0.892		
Heptachlor epoxide	1		3.60	3.58	3.60	0.844		6.7
	2		3.59	3.58	3.60	0.902		
4,4'-DDE	1		3.89	3.87	3.89	0.892		1.3
	2		3.97	3.96	3.98	0.904		
Endosulfan I	1		3.98	3.96	3.98	0.861		10.6
	2		3.88	3.87	3.89	0.957		
Dieldrin	1		4.23	4.21	4.23	0.898		2.1
	2		4.22	4.21	4.23	0.917		
Endrin	1		4.47	4.46	4.48	0.912		8.6
	2		4.47	4.45	4.47	0.994		
4,4'-DDD	1		4.52	4.51	4.53	0.991		6.3
	2		4.52	4.50	4.52	1.06		
Endosulfan II	1		4.69	4.68	4.70	0.912		4.2
	2		4.69	4.67	4.69	0.951		
4,4'-DDT	1		4.78	4.77	4.79	0.826		5.9
	2		4.78	4.76	4.78	0.876		
Endrin aldehyde	1		5.00	4.99	5.01	0.903		3.4
	2		5.00	4.99	5.01	0.935		
Methoxychlor	1		5.12	5.10	5.12	0.843		0.2
	2		5.21	5.20	5.22	0.845		
Endosulfan sulfate	1		5.28	5.27	5.29	0.868		0.9
	2		5.12	5.10	5.12	0.876		
Endrin ketone	1		5.46	5.44	5.46	0.920		8.0
	2		5.46	5.45	5.47	0.997		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152194-I-4-A MS

Instrument ID (1): CPESTGC5 Instrument ID (2): CPESTGC5

Date Analyzed (1): 03/21/2018 09:34 Date Analyzed (2): 03/21/2018 09:34

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.38	2.37	2.39	0.980		3.1
	2		2.37	2.36	2.38	1.01		
gamma-BHC (Lindane)	1		2.58	2.56	2.58	1.01		1.6
	2		2.56	2.55	2.57	1.02		
beta-BHC	1		2.62	2.61	2.63	1.05		2.6
	2		2.61	2.60	2.62	1.07		
delta-BHC	1		2.74	2.73	2.75	0.645		3.2
	2		2.73	2.72	2.74	0.666		
Heptachlor	1		2.89	2.88	2.90	0.858		3.6
	2		2.88	2.86	2.88	0.889		
Aldrin	1		3.11	3.10	3.12	0.866		6.2
	2		3.10	3.09	3.11	0.922		
Heptachlor epoxide	1		3.60	3.58	3.60	0.939		6.7
	2		3.59	3.58	3.60	1.00		
4,4'-DDE	1		3.89	3.87	3.89	0.977		3.4
	2		3.97	3.96	3.98	1.01		
Endosulfan I	1		3.98	3.96	3.98	0.966		7.4
	2		3.88	3.87	3.89	1.04		
Dieldrin	1		4.23	4.21	4.23	1.01		1.8
	2		4.22	4.21	4.23	1.02		
Endrin	1		4.47	4.46	4.48	1.04		8.7
	2		4.47	4.45	4.47	1.14		
4,4'-DDD	1		4.52	4.51	4.53	1.07		5.3
	2		4.52	4.50	4.52	1.13		
Endosulfan II	1		4.69	4.68	4.70	1.02		4.2
	2		4.69	4.67	4.69	1.07		
4,4'-DDT	1		4.78	4.77	4.79	0.971		4.0
	2		4.78	4.76	4.78	1.01		
Endrin aldehyde	1		5.00	4.99	5.01	0.982		1.4
	2		5.00	4.99	5.01	0.996		
Methoxychlor	1		5.12	5.10	5.12	1.06		15.2
	2		5.21	5.20	5.22	0.906		
Endosulfan sulfate	1		5.28	5.27	5.29	0.975		7.1
	2		5.12	5.10	5.12	1.05		
Endrin ketone	1		5.46	5.44	5.46	1.05		6.0
	2		5.46	5.45	5.47	1.11		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152194-J-4-A MSD

Instrument ID (1): CPESTGC5 Instrument ID (2): CPESTGC5

Date Analyzed (1): 03/21/2018 09:47 Date Analyzed (2): 03/21/2018 09:47

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.39	2.37	2.39	1.03		5.2
	2		2.37	2.36	2.38	1.09		
gamma-BHC (Lindane)	1		2.58	2.56	2.58	1.05		4.6
	2		2.57	2.55	2.57	1.10		
beta-BHC	1		2.63	2.61	2.63	1.11		5.6
	2		2.61	2.60	2.62	1.17		
delta-BHC	1		2.75	2.73	2.75	0.675		6.9
	2		2.73	2.72	2.74	0.723		
Heptachlor	1		2.89	2.88	2.90	0.844		7.2
	2		2.88	2.86	2.88	0.907		
Aldrin	1		3.11	3.10	3.12	0.838		9.7
	2		3.10	3.09	3.11	0.924		
Heptachlor epoxide	1		3.60	3.58	3.60	0.975		9.4
	2		3.59	3.58	3.60	1.07		
4,4'-DDE	1		3.89	3.87	3.89	0.925		15.2
	2		3.97	3.96	3.98	1.08		
Endosulfan I	1		3.98	3.96	3.98	1.00		1.2
	2		3.88	3.87	3.89	1.01		
Dieldrin	1		4.23	4.21	4.23	1.04		4.7
	2		4.22	4.21	4.23	1.09		
Endrin	1		4.47	4.46	4.48	1.09		12.2
	2		4.47	4.45	4.47	1.23		
4,4'-DDD	1		4.52	4.51	4.53	1.10		8.2
	2		4.52	4.50	4.52	1.19		
Endosulfan II	1		4.69	4.68	4.70	1.07		6.8
	2		4.69	4.67	4.69	1.15		
4,4'-DDT	1		4.78	4.77	4.79	0.926		6.8
	2		4.78	4.76	4.78	0.991		
Endrin aldehyde	1		5.00	4.99	5.01	1.06		1.7
	2		5.00	4.99	5.01	1.08		
Methoxychlor	1		5.12	5.10	5.12	1.12		43.9
	2		5.21	5.20	5.22	0.715		
Endosulfan sulfate	1		5.28	5.27	5.29	1.04		4.9
	2		5.12	5.10	5.12	1.09		
Endrin ketone	1		5.46	5.44	5.46	1.12		7.0
	2		5.46	5.45	5.47	1.20		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-504832/2-A

Instrument ID (1): CPESTGC4 Instrument ID (2): CPESTGC4

Date Analyzed (1): 03/22/2018 10:25 Date Analyzed (2): 03/22/2018 10:25

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.02	2.01	2.03	0.130		3.8
	2		2.45	2.44	2.46	0.125		
gamma-BHC (Lindane)	1		2.20	2.19	2.21	0.129		6.5
	2		2.69	2.68	2.70	0.120		
beta-BHC	1		2.25	2.23	2.25	0.130		3.1
	2		2.74	2.72	2.74	0.126		
delta-BHC	1		2.35	2.34	2.36	0.131		6.9
	2		2.96	2.95	2.97	0.123		
Heptachlor	1		2.48	2.47	2.49	0.127		5.1
	2		3.03	3.01	3.03	0.121		
Aldrin	1		2.67	2.65	2.67	0.126		5.7
	2		3.30	3.28	3.30	0.119		
Heptachlor epoxide	1		3.07	3.06	3.08	0.124		0.4
	2		3.83	3.81	3.83	0.124		
4,4'-DDE	1		3.32	3.31	3.33	0.122		5.5
	2		4.36	4.34	4.36	0.129		
Endosulfan I	1		3.38	3.36	3.38	0.127		1.0
	2		4.26	4.24	4.26	0.126		
Dieldrin	1		3.58	3.56	3.58	0.127		0.5
	2		4.56	4.54	4.56	0.127		
Endrin	1		3.80	3.78	3.80	0.126		0.2
	2		4.84	4.83	4.85	0.126		
4,4'-DDD	1		3.86	3.84	3.86	0.123		0.1
	2		4.92	4.90	4.92	0.123		
Endosulfan II	1		4.02	4.01	4.03	0.123		0.6
	2		5.00	4.98	5.00	0.122		
4,4'-DDT	1		4.16	4.14	4.16	0.121		2.0
	2		5.15	5.13	5.15	0.118		
Endrin aldehyde	1		4.47	4.45	4.47	0.118		0.1
	2		5.23	5.22	5.24	0.118		
Methoxychlor	1		4.68	4.67	4.69	0.110		8.6
	2		5.63	5.62	5.64	0.120		
Endosulfan sulfate	1		4.86	4.85	4.87	0.117		0.1
	2		5.42	5.40	5.42	0.117		
Endrin ketone	1		5.06	4.98	5.12	0.117		7.5
	2		5.83	5.75	5.89	0.127		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152046-E-4-G MS

Instrument ID (1): CPESTGC4 Instrument ID (2): CPESTGC4

Date Analyzed (1): 03/22/2018 14:14 Date Analyzed (2): 03/22/2018 14:14

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.03	2.01	2.03	0.121		17.0
	2		2.45	2.44	2.46	0.143		
gamma-BHC (Lindane)	1		2.20	2.19	2.21	0.120		14.1
	2		2.69	2.68	2.70	0.139		
beta-BHC	1		2.25	2.23	2.25	0.121		18.0
	2		2.74	2.72	2.74	0.145		
delta-BHC	1		2.36	2.34	2.36	0.124		11.3
	2		2.96	2.95	2.97	0.139		
Heptachlor	1		2.48	2.47	2.49	0.118		12.3
	2		3.03	3.01	3.03	0.133		
Aldrin	1		2.67	2.65	2.67	0.117		13.3
	2		3.30	3.28	3.30	0.133		
Heptachlor epoxide	1		3.07	3.06	3.08	0.116		17.8
	2		3.83	3.81	3.83	0.139		
4,4'-DDE	1		3.32	3.31	3.33	0.117		22.0
	2		4.36	4.34	4.36	0.146		
Endosulfan I	1		3.38	3.36	3.38	0.118		18.5
	2		4.26	4.24	4.26	0.142		
Dieldrin	1		3.58	3.56	3.58	0.119		20.6
	2		4.56	4.54	4.56	0.146		
Endrin	1		3.79	3.78	3.80	0.116		23.3
	2		4.84	4.83	4.85	0.147		
4,4'-DDD	1		3.86	3.84	3.86	0.113		26.9
	2		4.92	4.90	4.92	0.148		
Endosulfan II	1		4.02	4.01	4.03	0.116		20.9
	2		5.00	4.98	5.00	0.143		
4,4'-DDT	1		4.16	4.14	4.16	0.114		17.6
	2		5.14	5.13	5.15	0.136		
Endrin aldehyde	1		4.47	4.45	4.47	0.114		17.9
	2		5.23	5.22	5.24	0.137		
Methoxychlor	1		4.68	4.67	4.69	0.102		30.7
	2		5.63	5.62	5.64	0.140		
Endosulfan sulfate	1		4.86	4.85	4.87	0.107		24.9
	2		5.42	5.40	5.42	0.138		
Endrin ketone	1		5.05	4.98	5.12	0.107		30.7
	2		5.83	5.75	5.89	0.146		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152046-E-4-H MSD

Instrument ID (1): CPESTGC4 Instrument ID (2): CPESTGC4

Date Analyzed (1): 03/22/2018 14:27 Date Analyzed (2): 03/22/2018 14:27

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.03	2.01	2.03	0.162		9.3
	2		2.45	2.44	2.46	0.148		
gamma-BHC (Lindane)	1		2.20	2.19	2.21	0.161		11.9
	2		2.69	2.68	2.70	0.143		
beta-BHC	1		2.25	2.23	2.25	0.162		9.7
	2		2.74	2.72	2.74	0.147		
delta-BHC	1		2.35	2.34	2.36	0.166		13.4
	2		2.96	2.95	2.97	0.145		
Heptachlor	1		2.48	2.47	2.49	0.159		12.3
	2		3.03	3.01	3.03	0.140		
Aldrin	1		2.67	2.65	2.67	0.156		11.0
	2		3.30	3.28	3.30	0.140		
Heptachlor epoxide	1		3.07	3.06	3.08	0.159		9.1
	2		3.83	3.81	3.83	0.145		
4,4'-DDE	1		3.32	3.31	3.33	0.162		6.5
	2		4.36	4.34	4.36	0.152		
Endosulfan I	1		3.37	3.36	3.38	0.163		9.6
	2		4.26	4.24	4.26	0.148		
Dieldrin	1		3.58	3.56	3.58	0.161		6.2
	2		4.56	4.54	4.56	0.151		
Endrin	1		3.79	3.78	3.80	0.162		6.2
	2		4.84	4.83	4.85	0.152		
4,4'-DDD	1		3.86	3.84	3.86	0.160		5.6
	2		4.92	4.90	4.92	0.152		
Endosulfan II	1		4.02	4.01	4.03	0.156		7.9
	2		5.00	4.98	5.00	0.144		
4,4'-DDT	1		4.16	4.14	4.16	0.156		9.7
	2		5.14	5.13	5.15	0.141		
Endrin aldehyde	1		4.47	4.45	4.47	0.155		7.5
	2		5.23	5.22	5.24	0.143		
Methoxychlor	1		4.68	4.67	4.69	0.142		0.9
	2		5.63	5.62	5.64	0.144		
Endosulfan sulfate	1		4.86	4.85	4.87	0.150		3.2
	2		5.42	5.40	5.42	0.145		
Endrin ketone	1		5.05	4.98	5.12	0.151		1.4
	2		5.83	5.75	5.89	0.153		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: 5F919164.D

Analysis Method: 8081B | Date Collected: 03/16/2018 11:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 14:46

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	83		10-150
877-09-8	Tetrachloro-m-xylene	94		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919164.D
Lims ID: 460-152136-G-1-A
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 21-Mar-2018 14:46:12 ALS Bottle#: 58 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-023
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 19:29:32 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.666	1.660	0.006	109767419	100.0	
2	1.681	1.676	0.005	56678449	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.046	2.041	0.005	109046073	93.8	
2	2.061	2.056	0.005	51996793	88.5	
					RPD = 5.79	
$ 24 DCB Decachlorobiphenyl						
1	6.263	6.261	0.002	118208950	82.7	
2	6.257	6.255	0.002	49249190	78.8	
					RPD = 4.84	

Reagents:

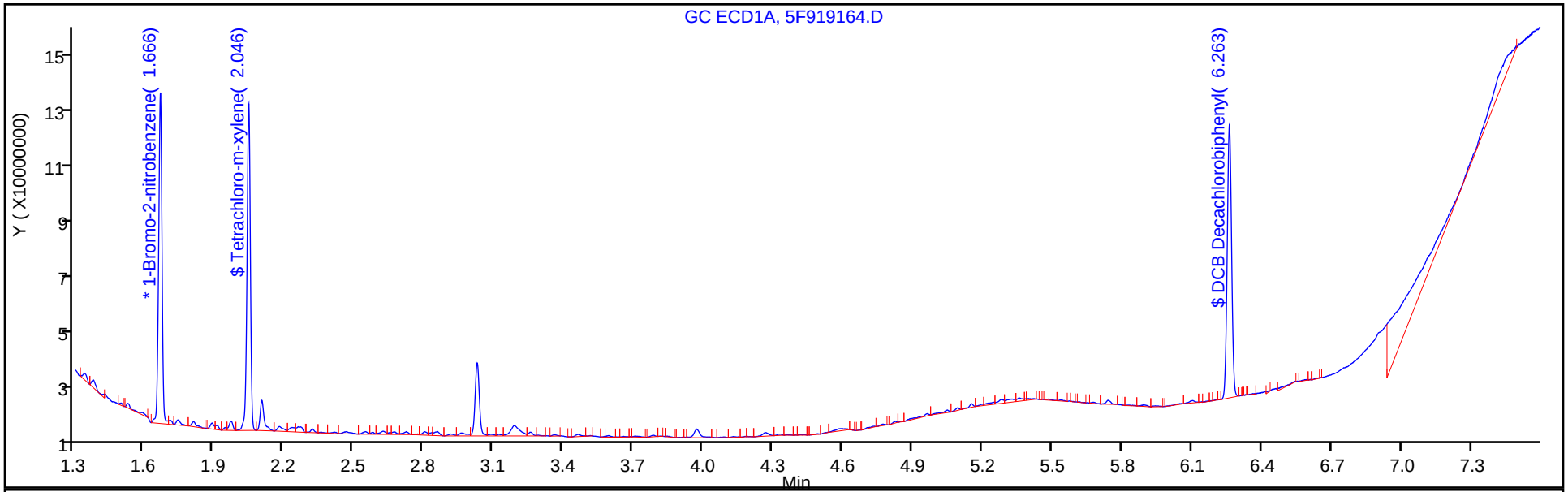
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

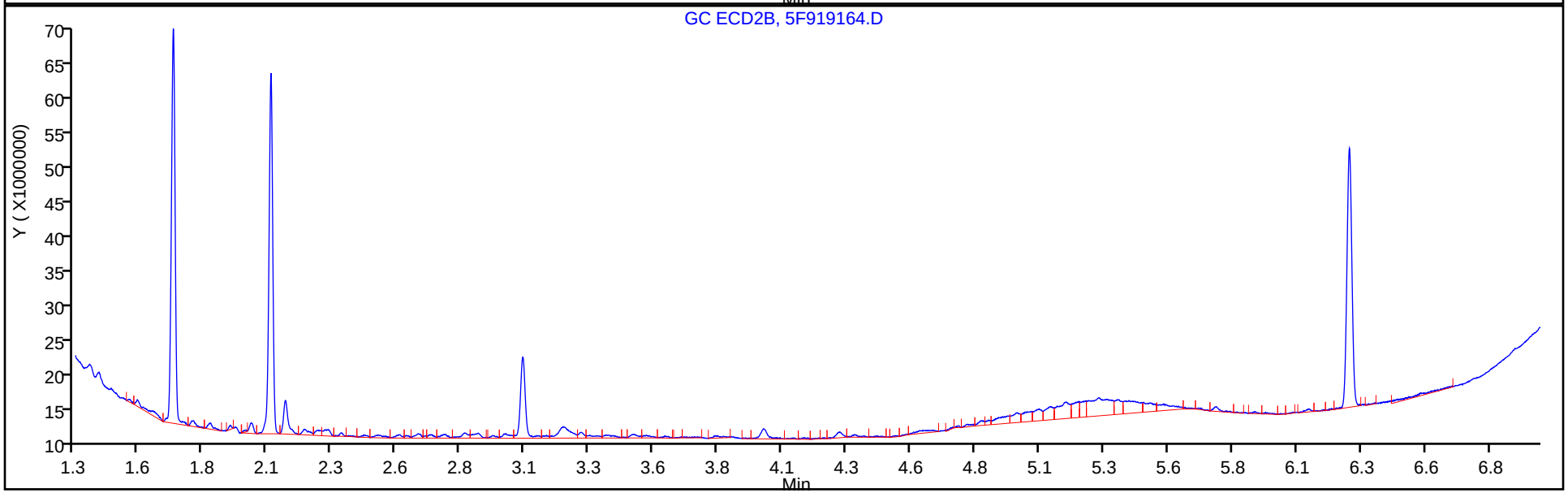
Report Date: 21-Mar-2018 19:32:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919164.D

Injection Date:	21-Mar-2018 14:46:12	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152136-G-1-A	Lab Sample ID:	460-152136-1	Worklist Smp#:	23
Client ID:	Recharge Basin				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: 5F919164.D

Analysis Method: 8081B | Date Collected: 03/16/2018 11:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 14:46

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.0060	U	0.020	0.0060
72-55-9	4,4'-DDE	0.0020	U	0.020	0.0020
50-29-3	4,4'-DDT	0.0040	U	0.020	0.0040
309-00-2	Aldrin	0.0030	U	0.020	0.0030
319-84-6	alpha-BHC	0.0070	U	0.020	0.0070
319-85-7	beta-BHC	0.0040	U	0.020	0.0040
12789-03-6	Chlordane (technical)	0.055	U	0.50	0.055
319-86-8	delta-BHC	0.0050	U	0.020	0.0050
60-57-1	Dieldrin	0.0030	U	0.020	0.0030
959-98-8	Endosulfan I	0.0020	U	0.020	0.0020
33213-65-9	Endosulfan II	0.0040	U	0.020	0.0040
1031-07-8	Endosulfan sulfate	0.0060	U	0.020	0.0060
72-20-8	Endrin	0.0040	U	0.020	0.0040
7421-93-4	Endrin aldehyde	0.0080	U	0.020	0.0080
53494-70-5	Endrin ketone	0.0080	U	0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.012	U	0.020	0.012
76-44-8	Heptachlor	0.0030	U	0.020	0.0030
1024-57-3	Heptachlor epoxide	0.0050	U	0.020	0.0050
72-43-5	Methoxychlor	0.0040	U	0.020	0.0040
8001-35-2	Toxaphene	0.11	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	79		10-150
877-09-8	Tetrachloro-m-xylene	89		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919164.D
Lims ID: 460-152136-G-1-A
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 21-Mar-2018 14:46:12 ALS Bottle#: 58 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-023
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 19:29:32 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.666	1.660	0.006	109767419	100.0	
2	1.681	1.676	0.005	56678449	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.046	2.041	0.005	109046073	93.8	
2	2.061	2.056	0.005	51996793	88.5	
					RPD = 5.79	
$ 24 DCB Decachlorobiphenyl						
1	6.263	6.261	0.002	118208950	82.7	
2	6.257	6.255	0.002	49249190	78.8	
					RPD = 4.84	

Reagents:

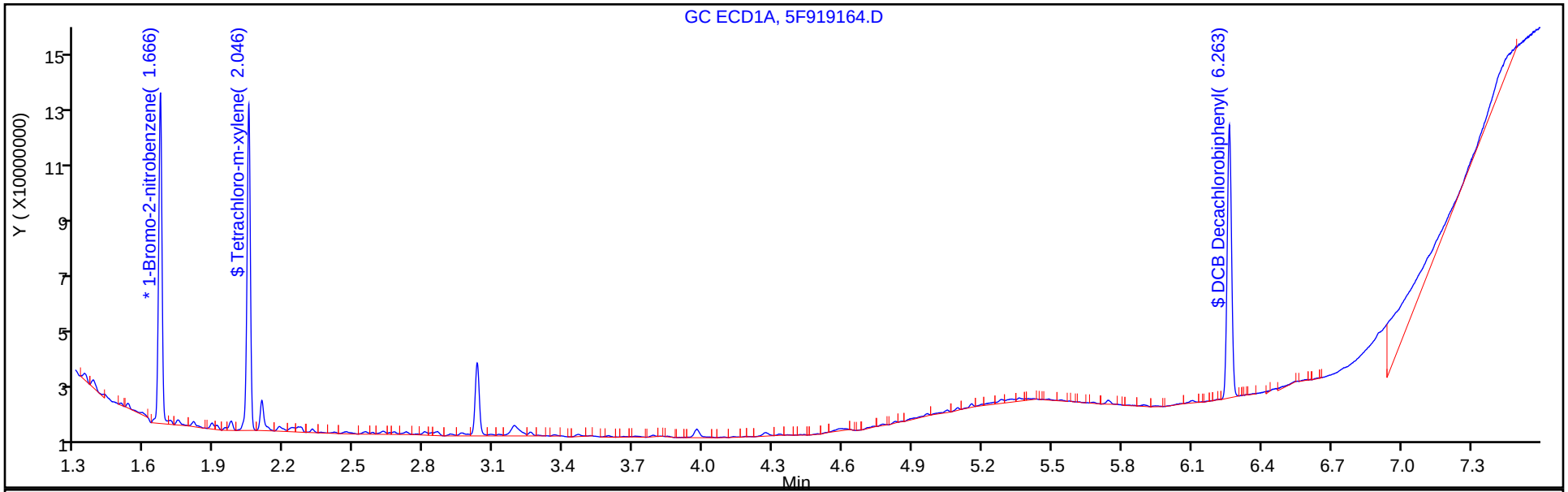
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

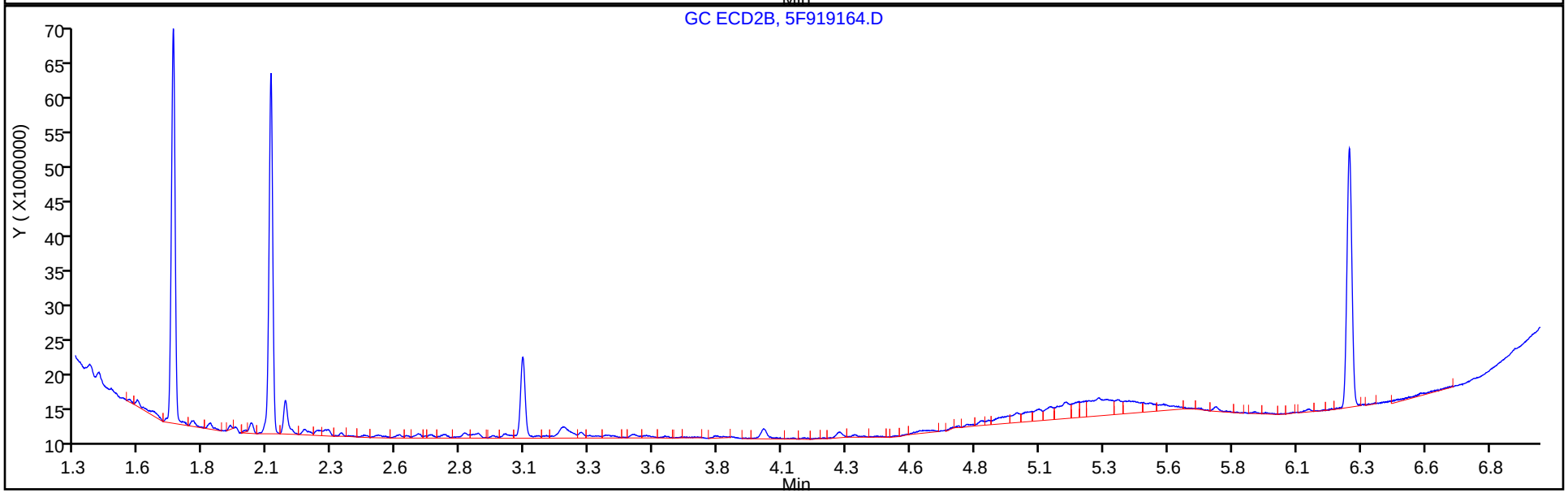
Report Date: 21-Mar-2018 19:32:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919164.D

Injection Date:	21-Mar-2018 14:46:12	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152136-G-1-A	Lab Sample ID:	460-152136-1	Worklist Smp#:	23
Client ID:	Recharge Basin				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: P4076568.D

Analysis Method: 8081B | Date Collected: 03/16/2018 09:45

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0126(g) | Date Analyzed: 03/22/2018 11:24

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		69-150
877-09-8	Tetrachloro-m-xylene	92		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D
Lims ID: 460-152136-E-2-E
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 11:24:28 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 12:38:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.561	1.558	0.003	40830279	100.0	
2	1.410	1.404	0.006	51345092	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.058	2.055	0.003	18740183	46.0	
2	1.738	1.732	0.006	21508411	44.2	
					RPD = 3.87	
$ 24 DCB Decachlorobiphenyl						
1	6.884	6.879	0.005	17019748	56.5	
2	5.789	5.784	0.005	22458665	48.3	
					RPD = 15.62	

Reagents:

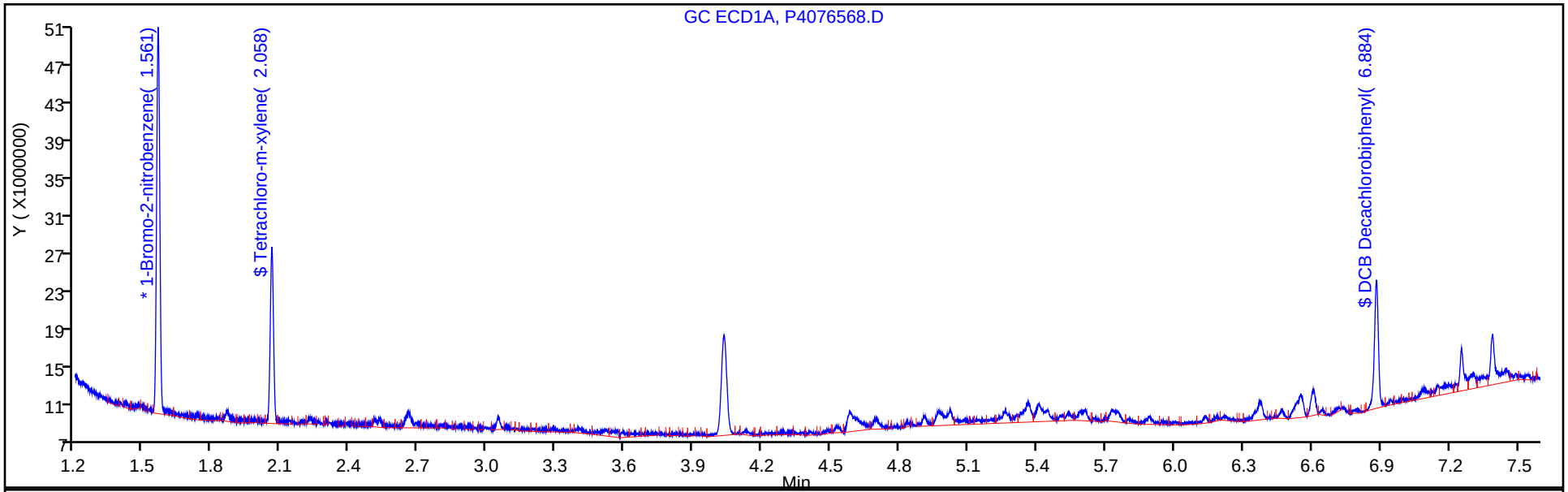
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

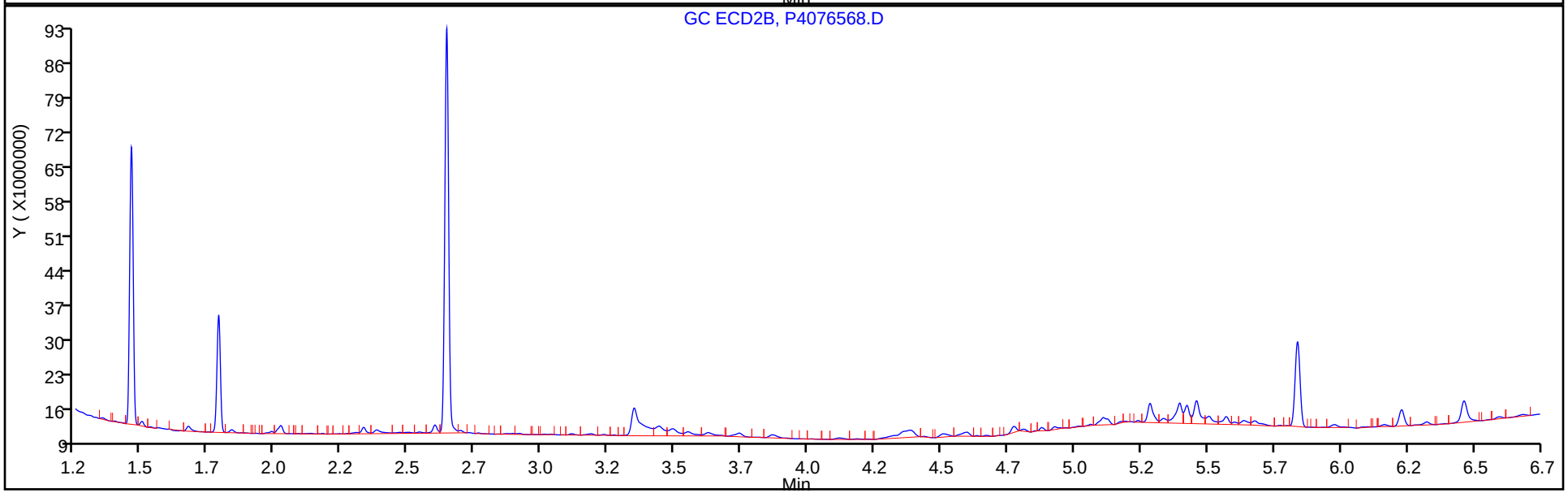
Report Date: 22-Mar-2018 13:36:02 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D

Injection Date:	22-Mar-2018 11:24:28	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152136-E-2-E	Lab Sample ID:	460-152136-2	Worklist Smp#:	11
Client ID:	Ash Pit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





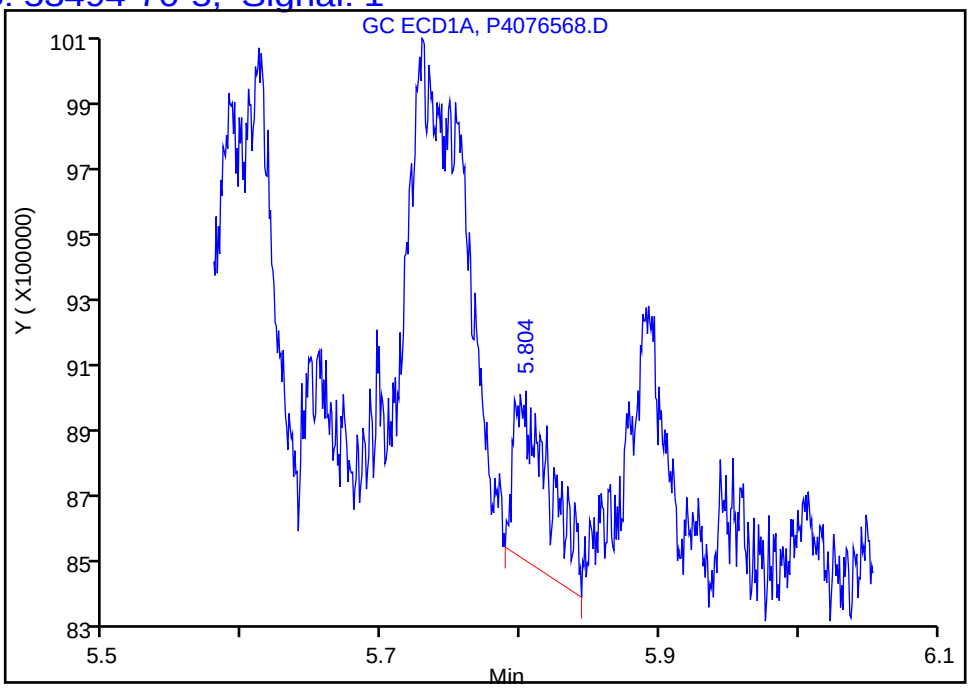
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D				
Injection Date:	22-Mar-2018 11:24:28	Instrument ID:	CPESTGC4		
Lims ID:	460-152136-E-2-E	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5, Signal: 1

RT: 5.80
Response: 872507
Amount: 2.018914



Reviewer: kapoors, 22-Mar-2018 12:38:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: P4076568.D

Analysis Method: 8081B | Date Collected: 03/16/2018 09:45

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0126(g) | Date Analyzed: 03/22/2018 11:24

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.0038	U	0.022	0.0038
72-55-9	4,4'-DDE	0.0026	U	0.022	0.0026
50-29-3	4,4'-DDT	0.0041	U	0.022	0.0041
309-00-2	Aldrin	0.0034	U	0.022	0.0034
319-84-6	alpha-BHC	0.0023	U	0.0067	0.0023
319-85-7	beta-BHC	0.0025	U	0.0067	0.0025
12789-03-6	Chlordane (technical)	0.054	U	0.22	0.054
319-86-8	delta-BHC	0.0014	U	0.0067	0.0014
60-57-1	Dieldrin	0.0029	U	0.0067	0.0029
959-98-8	Endosulfan I	0.0034	U	0.022	0.0034
33213-65-9	Endosulfan II	0.0057	U	0.022	0.0057
1031-07-8	Endosulfan sulfate	0.0028	U	0.022	0.0028
72-20-8	Endrin	0.0032	U	0.022	0.0032
7421-93-4	Endrin aldehyde	0.0053	U	0.022	0.0053
53494-70-5	Endrin ketone	0.0043	U	0.022	0.0043
58-89-9	gamma-BHC (Lindane)	0.0021	U	0.0067	0.0021
76-44-8	Heptachlor	0.0026	U	0.022	0.0026
1024-57-3	Heptachlor epoxide	0.0033	U	0.022	0.0033
72-43-5	Methoxychlor	0.0051	U	0.022	0.0051
8001-35-2	Toxaphene	0.081	U	0.22	0.081

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	97		69-150
877-09-8	Tetrachloro-m-xylene	88		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D
Lims ID: 460-152136-E-2-E
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 11:24:28 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 12:38:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.561	1.558	0.003	40830279	100.0	
2	1.410	1.404	0.006	51345092	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.058	2.055	0.003	18740183	46.0	
2	1.738	1.732	0.006	21508411	44.2	
					RPD = 3.87	
$ 24 DCB Decachlorobiphenyl						
1	6.884	6.879	0.005	17019748	56.5	
2	5.789	5.784	0.005	22458665	48.3	
					RPD = 15.62	

Reagents:

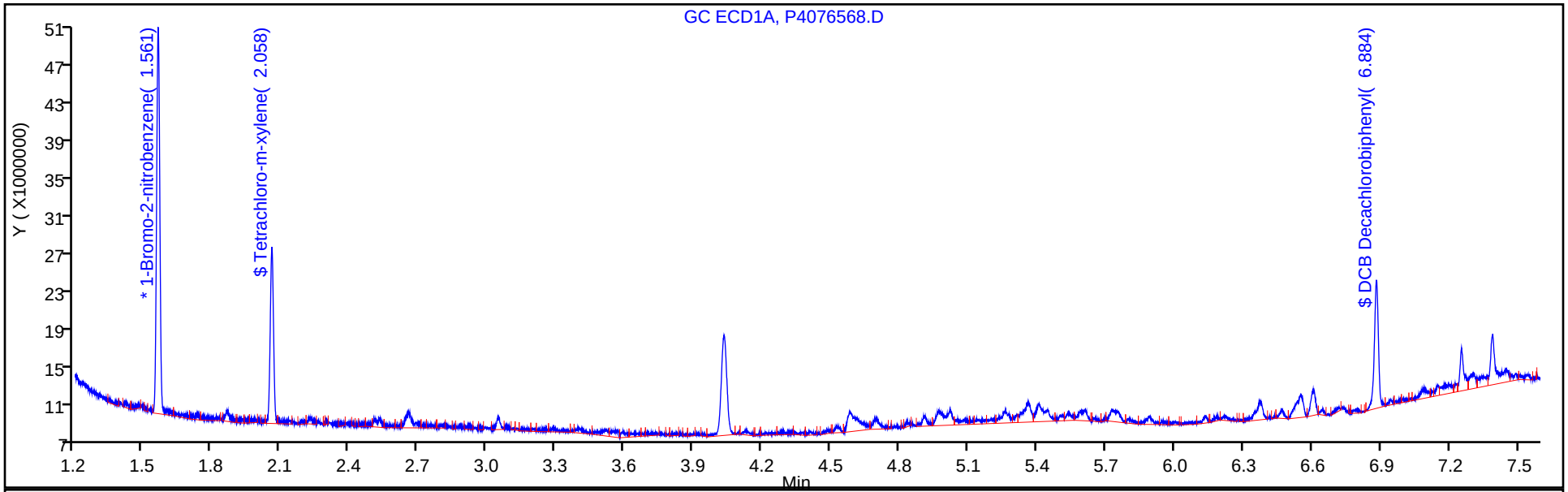
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

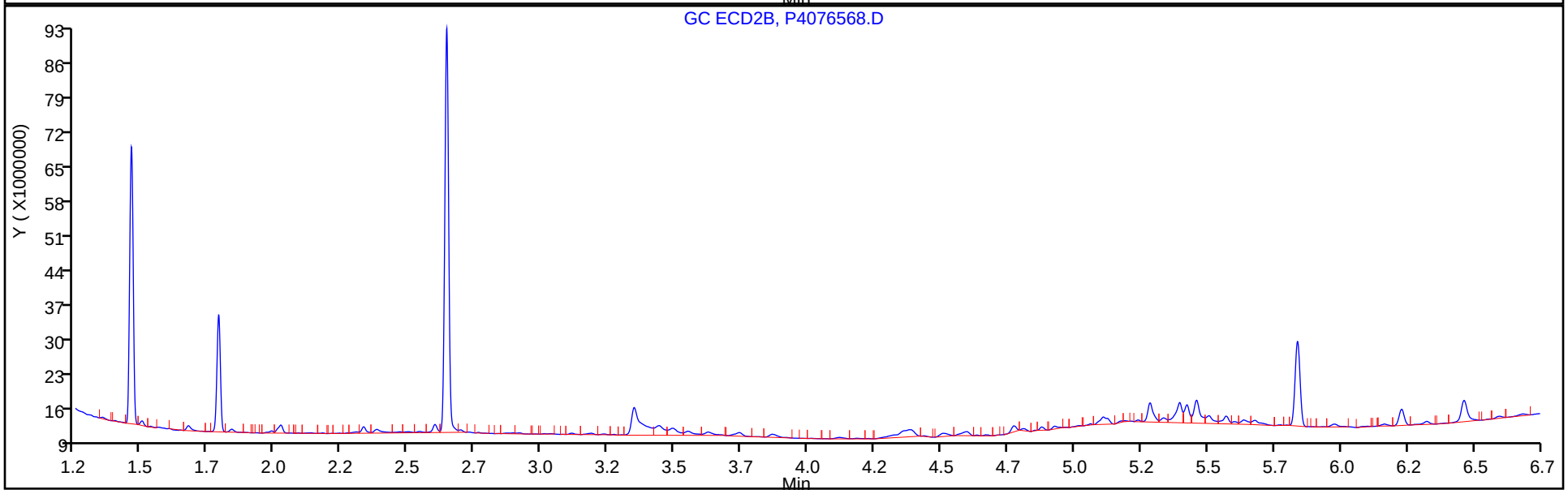
Report Date: 22-Mar-2018 13:36:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D

Injection Date:	22-Mar-2018 11:24:28	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152136-E-2-E	Lab Sample ID:	460-152136-2	Worklist Smp#:	11
Client ID:	Ash Pit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





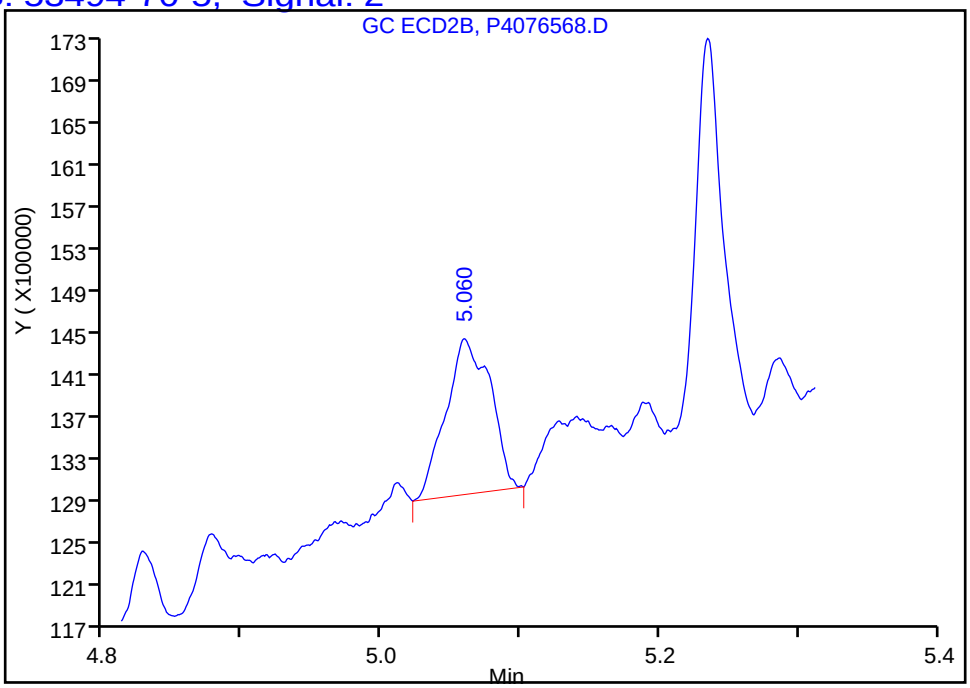
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076568.D				
Injection Date:	22-Mar-2018 11:24:28	Instrument ID:	CPESTGC4		
Lims ID:	460-152136-E-2-E	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

13 Endrin ketone, CAS: 53494-70-5, Signal: 2

RT: 5.06
Response: 3284183
Amount: 5.651227



Reviewer: kapoors, 22-Mar-2018 12:38:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64207

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.6221	1.4372	1.4287	1.3452	1.3671	Ave		1.4400				7.6		20.0			
gamma-BHC (Lindane)	1.4365	1.3813	1.3434	1.2576	1.2665	Ave		1.3371				5.7		20.0			
beta-BHC	0.6322	0.6328	0.5945	0.5364	0.5234	Ave		0.5839				8.9		20.0			
delta-BHC	1.4960	1.4029	1.3623	1.2721	1.2851	Ave		1.3637				6.7		20.0			
Heptachlor	1.5010	1.3625	1.3162	1.2212	1.2289	Ave		1.3259				8.6		20.0			
Aldrin	1.4626	1.3000	1.2254	1.1301	1.1323	Ave		1.2501				11.1		20.0			
Heptachlor epoxide	1.1444	1.2214	1.1981	1.0665	1.0585	Ave		1.1378				6.5		20.0			
trans-Chlordane	1.2898	1.1610	1.1609	1.0382	1.0419	Ave		1.1383				9.1		20.0			
cis-Chlordane	1.2220	1.0929	1.0931	0.9828	0.9916	Ave		1.0765				9.0		20.0			
Endosulfan I	1.1749	1.0504	1.0657	0.9578	0.9661	Ave		1.0430				8.5		20.0			
4,4'-DDE	1.1212	1.1026	1.1196	1.0080	1.0221	Ave		1.0747				5.1		20.0			
Dieldrin	1.2144	1.1571	1.1764	1.0722	1.0848	Ave		1.1410				5.3		20.0			
Endrin	1.0699	1.0137	1.0489	0.9556	0.9594	Ave		1.0095				5.1		20.0			
4,4'-DDD	0.9353	0.8924	0.9521	0.8579	0.8601	Ave		0.8996				4.8		20.0			
Endosulfan II	1.0308	0.9677	1.0341	0.9204	0.9115	Ave		0.9729				6.0		20.0			
4,4'-DDT	0.9686	0.9523	1.0174	0.9076	0.9081	Ave		0.9508				4.8		20.0			
Endrin aldehyde	0.8480	0.8173	0.8984	0.7718	0.7571	Ave		0.8185				7.0		20.0			
Endosulfan sulfate	1.0157	0.9488	0.9832	0.8794	0.8707	Ave		0.9396				6.8		20.0			
Methoxychlor	0.5455	0.5386	0.5412	0.4886	0.4806	Ave		0.5189				6.1		20.0			
Mirex	0.7210	0.6424	0.6611	0.6566	0.6425	Ave		0.6647				4.9		20.0			
Endrin ketone	1.1286	1.0777	1.0782	0.9994	1.0082	Ave		1.0584				5.1		20.0			
Tetrachloro-m-xylene	0.9680	0.9822	0.9998	1.0237	1.0156	Ave		0.9979				2.3		20.0			
DCB Decachlorobiphenyl	0.6327	0.7510	0.7565	0.7817	0.7692	Ave		0.7382				8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64207

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	1291740	22273426	44917872	95133296	196927550	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	1143940	21406764	42238244	88938478	182445699	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	503444	9807394	18689999	37933647	75403540	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	1191307	21741221	42830724	89965643	185126474	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	1195306	21115027	41381412	86364255	177024434	2.50	50.0	100	250	500
Aldrin	BNB	Ave	1164753	20146283	38526393	79920244	163104958	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	911326	18929078	37669401	75424009	152479122	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	1027152	17992167	36499048	73419330	150086696	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	973142	16937472	34366860	69503361	142847352	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	935618	16278318	33506968	67737216	139163926	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	892866	17087976	35199730	71287260	147238748	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	967073	17932440	36985897	75827707	156273747	2.50	50.0	100	250	500
Endrin	BNB	Ave	852038	15709414	32977577	67577298	138200668	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	744819	13829574	29934272	60672774	123895825	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	820853	14997308	32512750	65092408	131298067	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	771321	14759027	31987959	64186095	130809930	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	675307	12666436	28247674	54582165	109066149	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	808856	14704500	30913060	62190154	125420628	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	434392	8347253	17015761	34556840	69228051	2.50	50.0	100	250	500
Mirex	BNB	Ave	574199	9955340	20783921	46437684	92553381	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	898789	16702227	33900608	70677969	145234779	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	1927219	15222511	31435133	43436997	58517789	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	1259714	11638272	23785382	33167313	44320427	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 08:22:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:32:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.679	0.006	31853746	100.0	100.0	
2	1.512	1.513	-0.001	42073150	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							M
1	2.239	2.230	0.009	1927219	6.25	6.06	M
2	1.886	1.885	0.001	2073728	6.25	5.21	M
						RPD = 15.21	
15 alpha-BHC							M
1	2.659	2.651	0.008	1291740	2.50	2.82	M
2	2.208	2.208	0.000	1445319	2.50	2.49	M
						RPD = 12.18	
2 gamma-BHC (Lindane)							M
1	2.930	2.918	0.012	1143940	2.50	2.69	M
2	2.402	2.400	0.002	1348560	2.50	2.55	M
						RPD = 5.31	
6 beta-BHC							M
1	2.982	2.967	0.015	503444	2.50	2.71	M
2	2.450	2.447	0.003	630309	2.50	2.75	M
						RPD = 1.48	
32 delta-BHC							M
1	3.231	3.218	0.013	1191307	2.50	2.74	M
2	2.565	2.563	0.002	1332138	2.50	2.52	M
						RPD = 8.47	
18 Heptachlor							M
1	3.307	3.294	0.013	1195306	2.50	2.83	M
2	2.700	2.698	0.002	1395704	2.50	2.69	M
						RPD = 5.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.615	3.603	0.012	1164753	2.50	2.93	M
2	2.907	2.905	0.002	1383561	2.50	2.88	M
						RPD = 1.66	
12 Heptachlor epoxide							M
1	4.227	4.208	0.019	911326	2.50	2.51	M
2	3.363	3.359	0.004	1270694	2.50	2.80	M
						RPD = 10.83	
9 gamma-Chlordane							M
1	4.432	4.418	0.014	1027152	2.50	2.83	M
2	3.466	3.462	0.004	1245826	2.50	2.76	M
						RPD = 2.44	
23 alpha-Chlordane							M
1	4.594	4.578	0.016	973142	2.50	2.84	M
2	3.581	3.577	0.004	1245737	2.50	2.84	M
						RPD = 0.18	
7 Endosulfan I							M
1	4.661	4.648	0.013	935618	2.50	2.82	a
2	3.714	3.709	0.005	1182813	2.50	2.77	M
						RPD = 1.81	
25 4,4'-DDE							M
1	4.733	4.722	0.011	892866	2.50	2.61	M
2	3.637	3.632	0.005	1142514	2.50	2.63	M
						RPD = 0.72	
30 Dieldrin							M
1	4.897	4.886	0.011	967073	2.50	2.66	M
2	3.950	3.943	0.007	1218459	2.50	2.58	
						RPD = 3.11	
20 Endrin							M
1	5.120	5.110	0.010	852038	2.50	2.65	M
2	4.202	4.198	0.004	1176601	2.50	2.69	M
						RPD = 1.61	
16 4,4'-DDD							M
1	5.174	5.165	0.009	744819	2.50	2.60	
2	4.259	4.253	0.006	977082	2.50	2.58	M
						RPD = 0.91	
11 Endosulfan II							M
1	5.261	5.253	0.008	820853	2.50	2.65	M
2	4.442	4.437	0.005	1086632	2.50	2.63	M
						RPD = 0.60	
21 4,4'-DDT							M
1	5.389	5.380	0.009	771321	2.50	2.55	M
2	4.560	4.555	0.005	953977	2.50	2.42	
						RPD = 4.90	
5 Endrin aldehyde							M
1	5.489	5.480	0.009	675307	2.50	2.59	M
2	4.838	4.834	0.004	848959	2.50	2.47	M
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.700	5.692	0.008	808856	2.50	2.70	
2	5.146	5.142	0.004	1101769	2.50	2.62	M
						RPD = 3.22	
10 Methoxychlor							M
1	5.939	5.927	0.012	434392	2.50	2.63	M
2	4.972	4.968	0.004	585719	2.50	2.66	M
						RPD = 1.12	
34 Mirex							M
1	6.141	6.133	0.008	574199	2.50	2.71	M
2	5.067	5.063	0.004	810826	2.50	2.68	M
						RPD = 1.09	
13 Endrin ketone							M
1	6.177	6.167	0.010	898789	2.50	2.67	M
2	5.326	5.323	0.003	1235923	2.50	2.60	M
						RPD = 2.68	
$ 24 DCB Decachlorobiphenyl							M
1	7.099	7.092	0.007	1259714	6.25	5.36	M
2	6.122	6.116	0.006	2027199	6.25	5.32	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

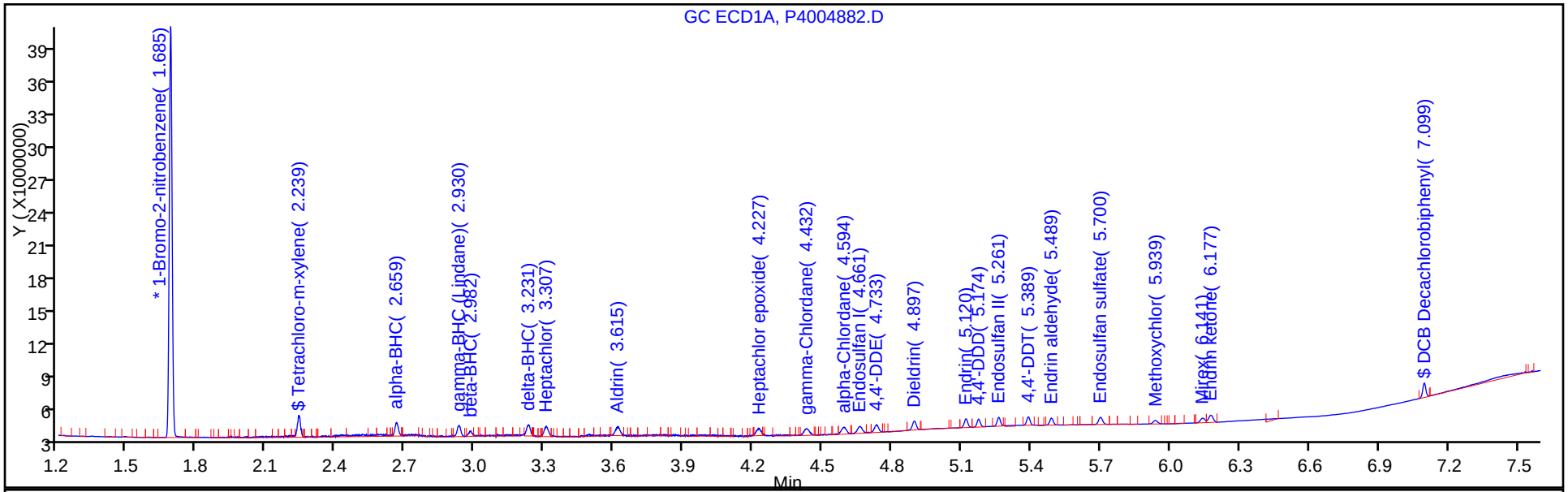
SGPEST-L1_00008	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

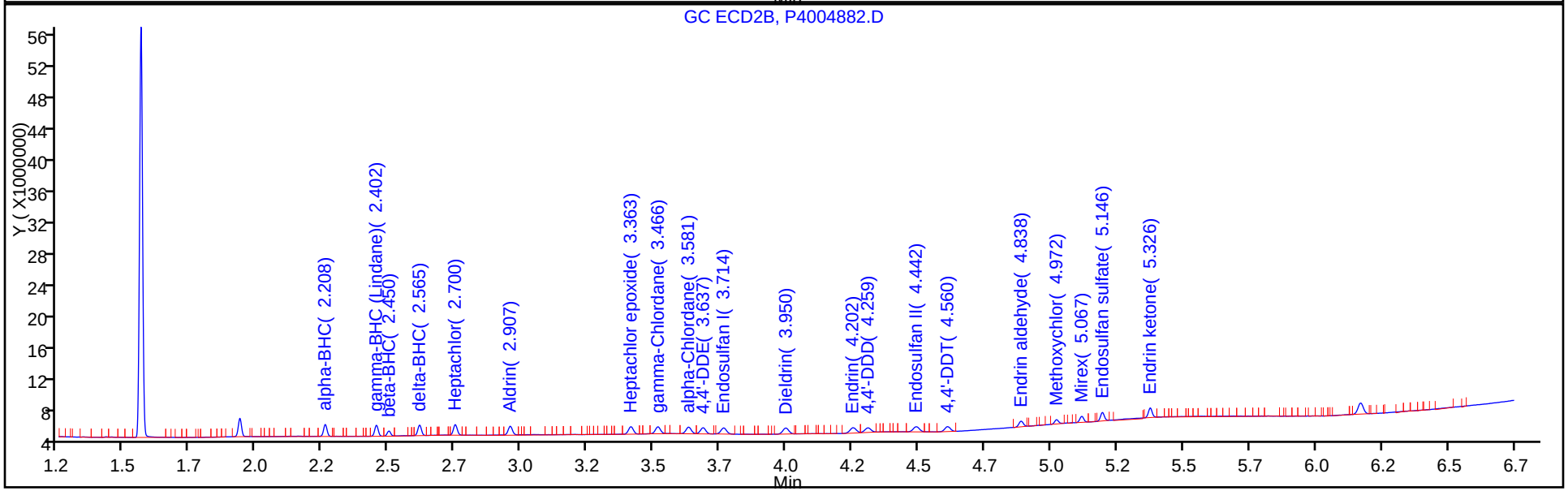
Report Date: 27-Sep-2017 13:43:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

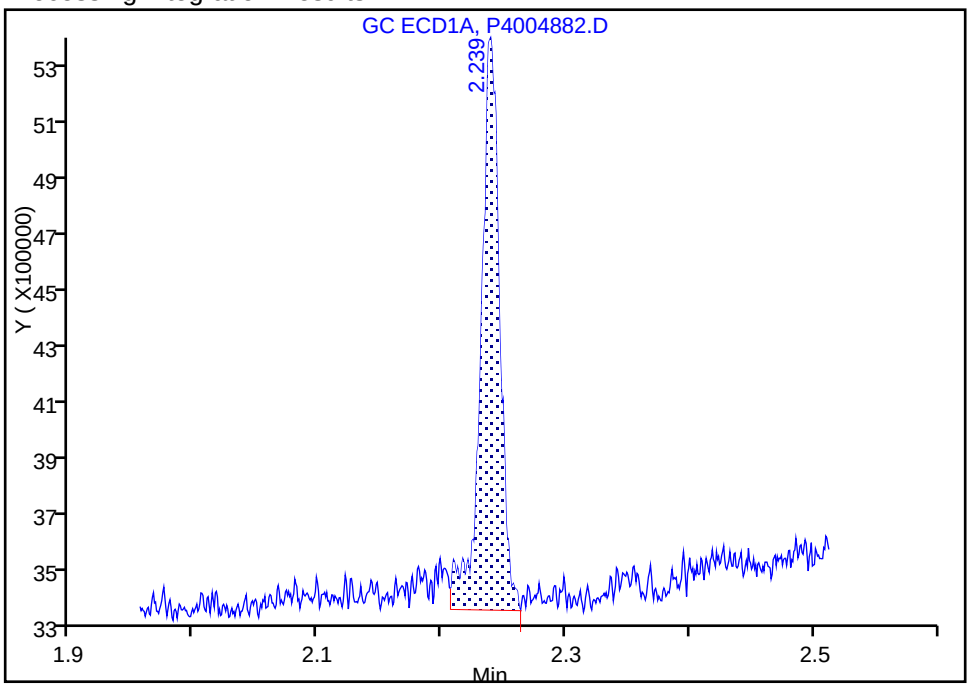
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

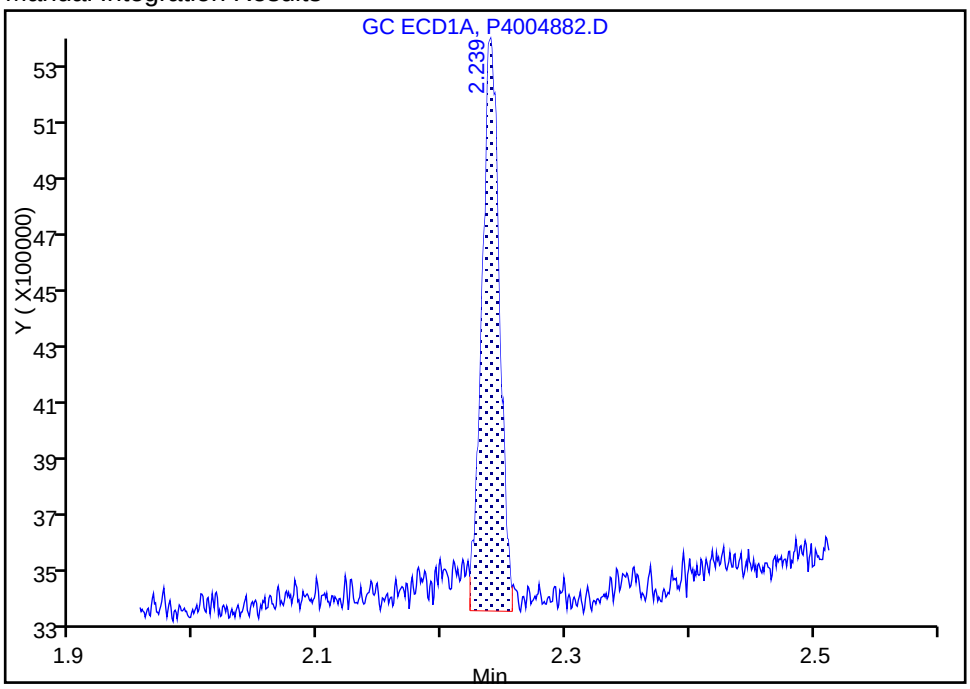
Processing Integration Results

RT: 2.24
Area: 2081082
Amount: 6.447305
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 1927219
Amount: 6.063114
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:33

Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

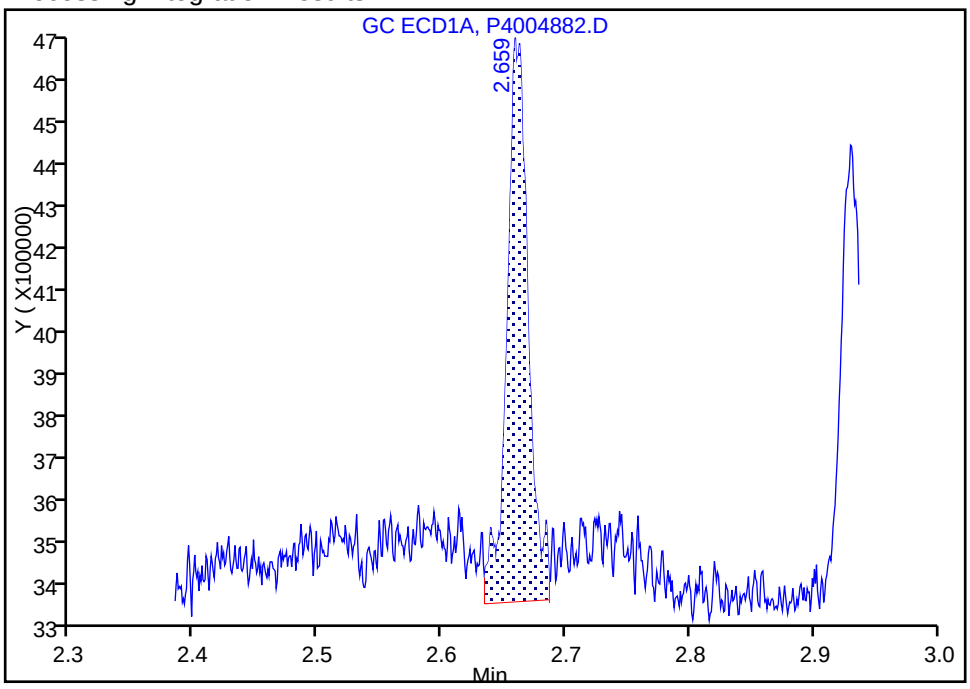
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

15 alpha-BHC, CAS: 319-84-6

Signal: 1

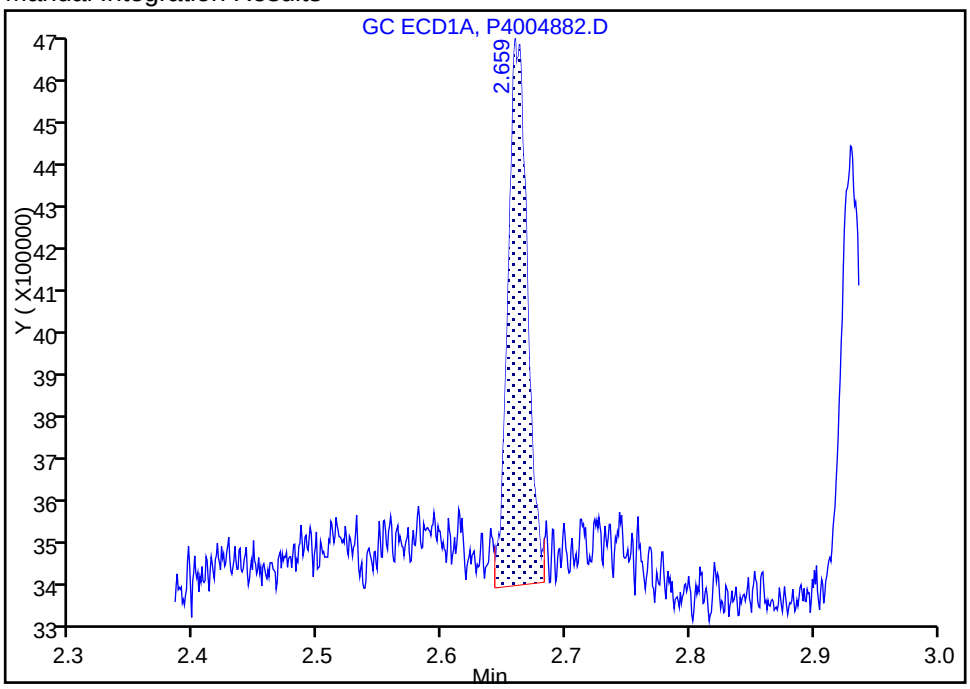
Processing Integration Results

RT: 2.66
Area: 1471513
Amount: 3.110426
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 1291740
Amount: 2.816036
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:00
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

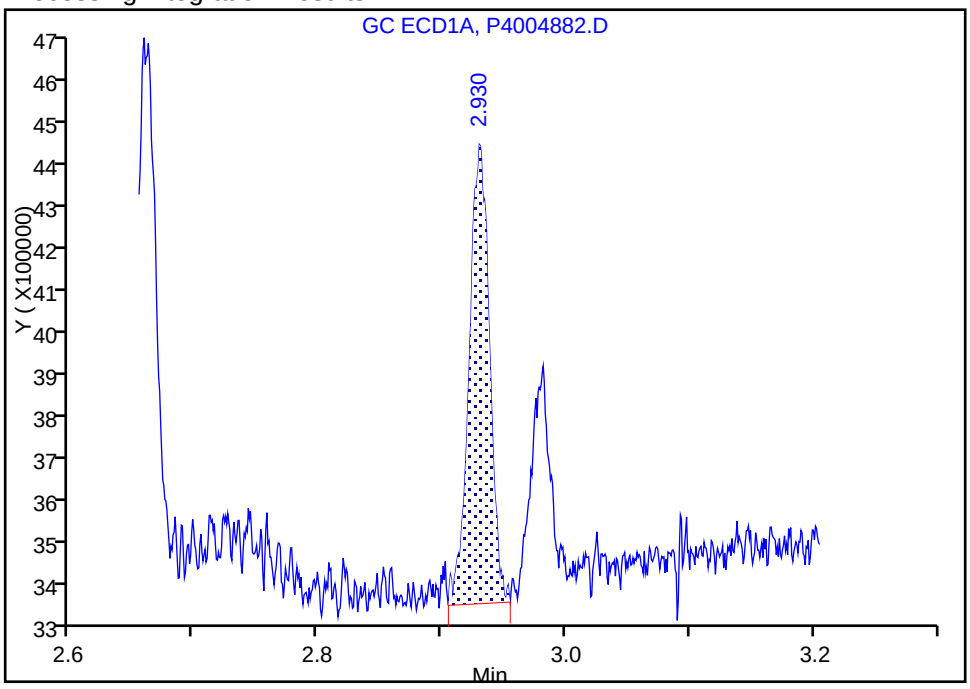
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 1

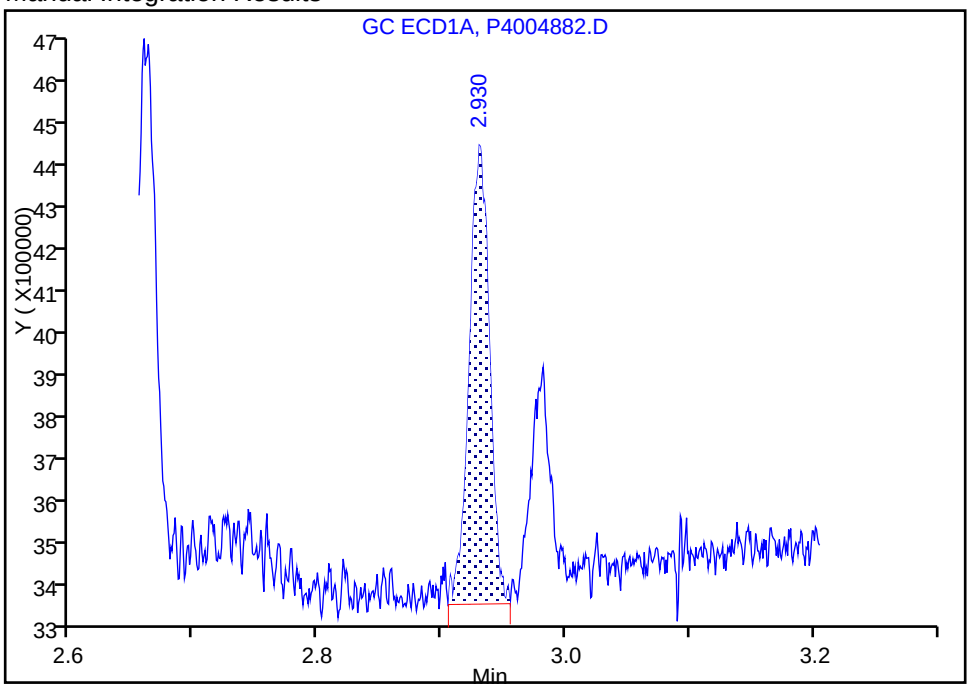
Processing Integration Results

RT: 2.93
Area: 1147300
Amount: 2.692081
Amount Units: ug/l



Manual Integration Results

RT: 2.93
Area: 1143940
Amount: 2.685891
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:21
Audit Action: Assigned New Baseline Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

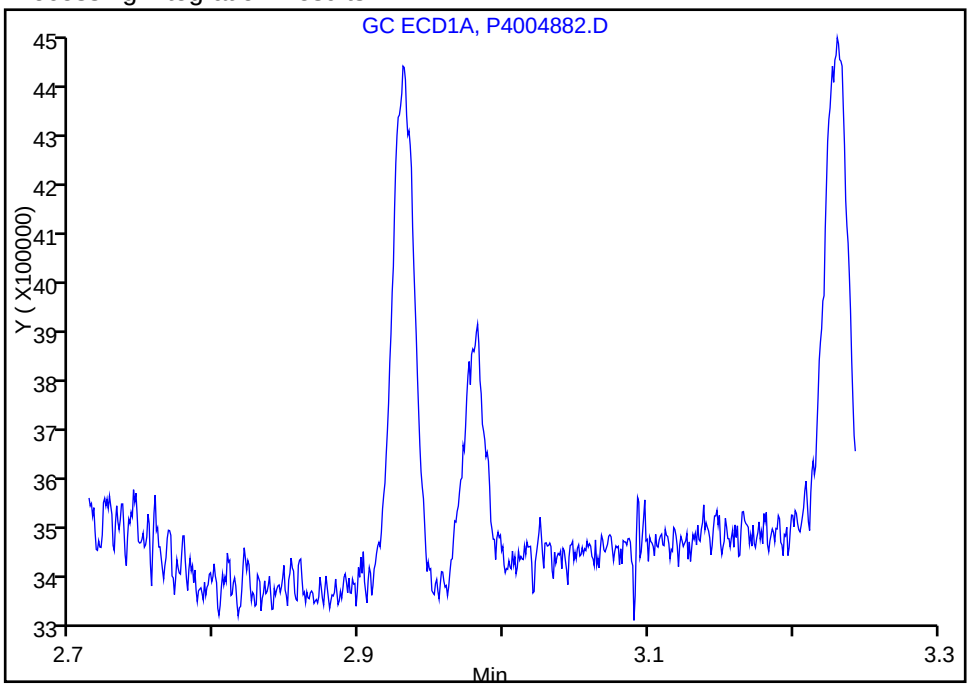
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

6 beta-BHC, CAS: 319-85-7

Signal: 1

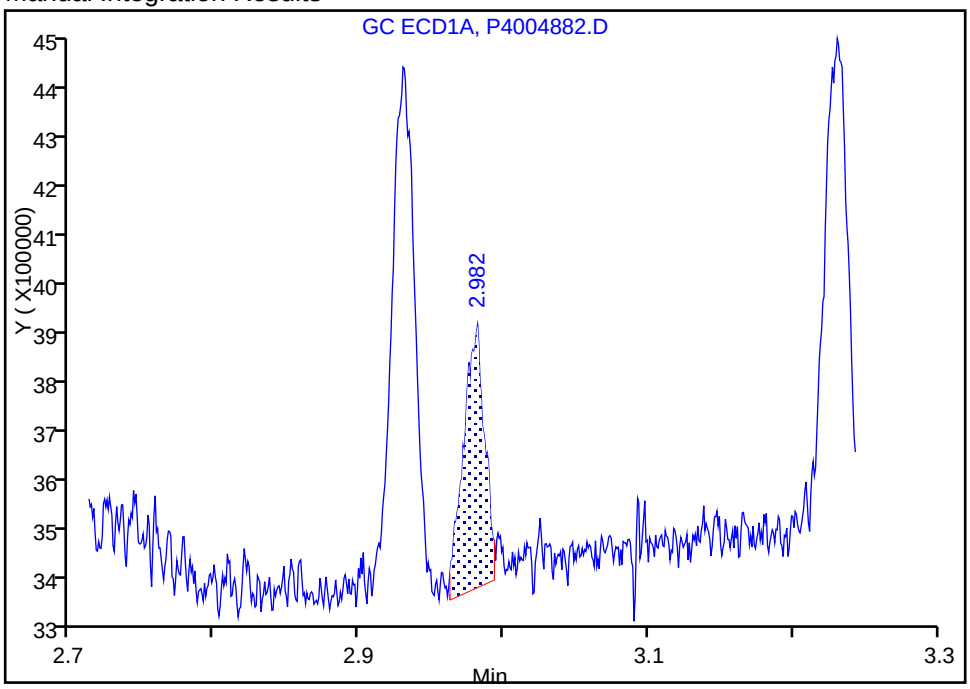
Not Detected
Expected RT: 2.97

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 503444
Amount: 2.706943
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:36
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

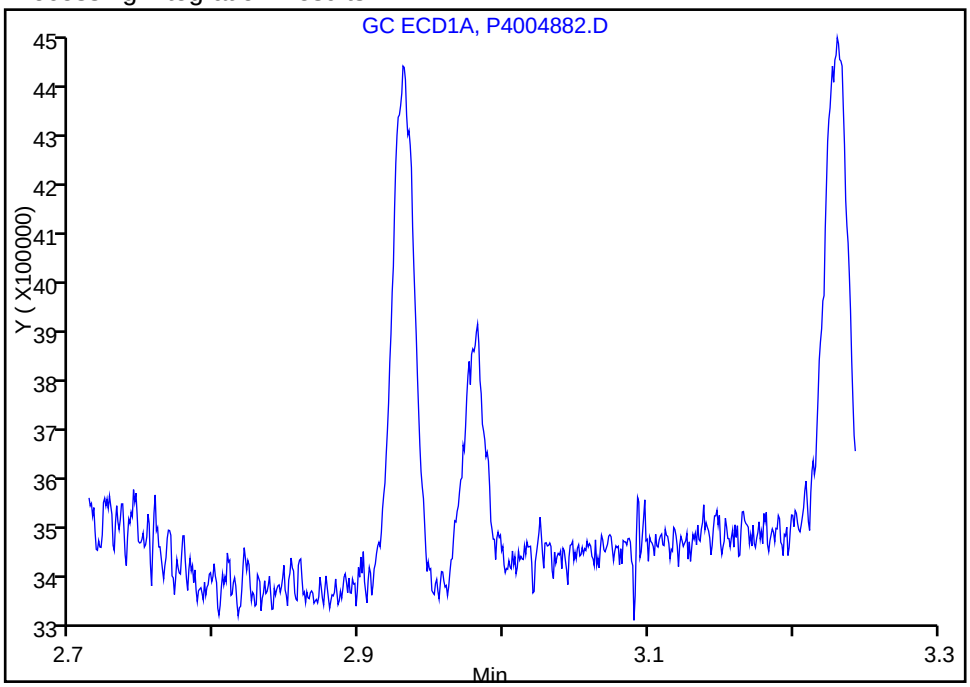
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

Signal: 1

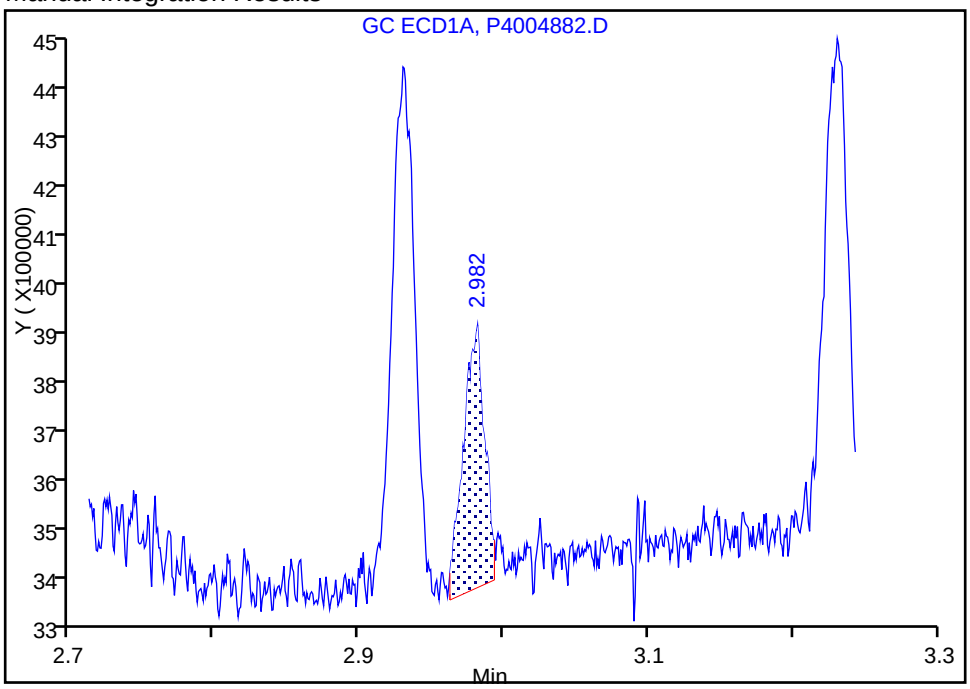
Not Detected
Expected RT: 2.97

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 503444
Amount: 2.706943
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:49:06
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

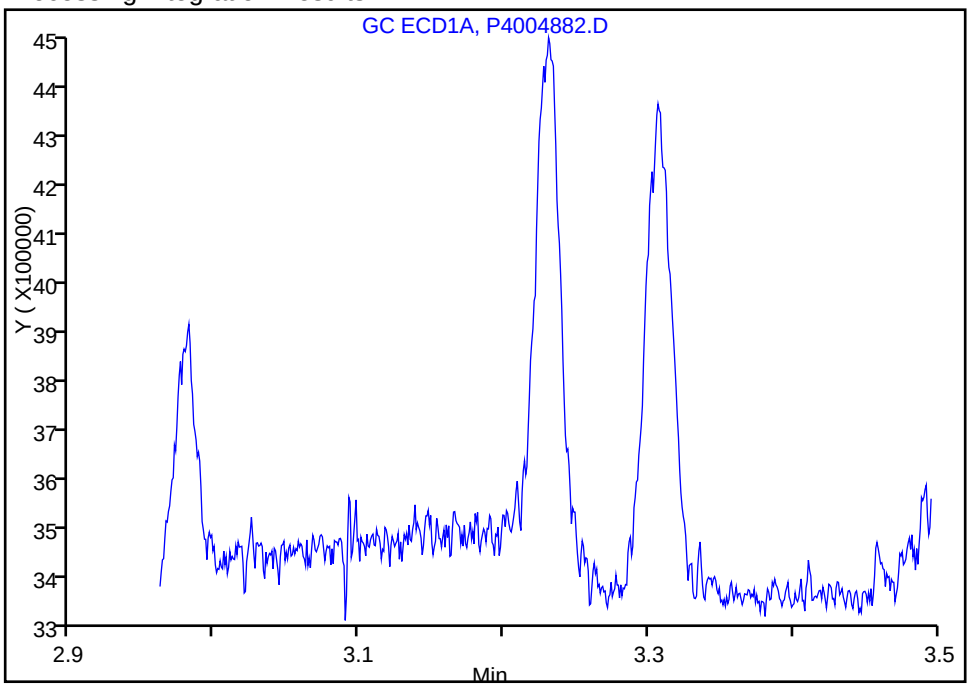
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

32 delta-BHC, CAS: 319-86-8

Signal: 1

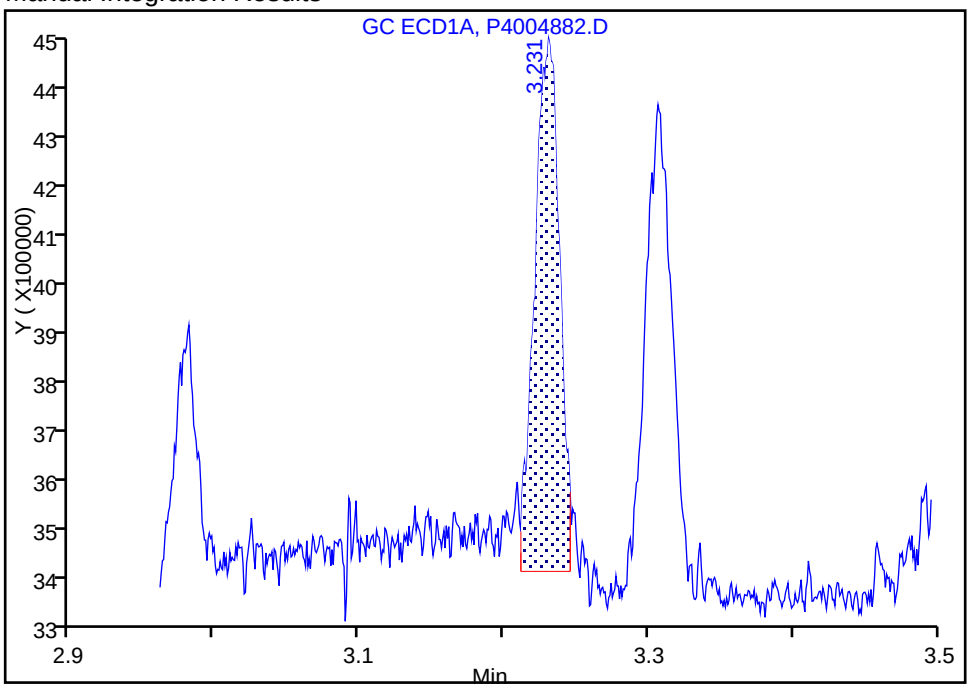
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 1191307
Amount: 2.742528
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

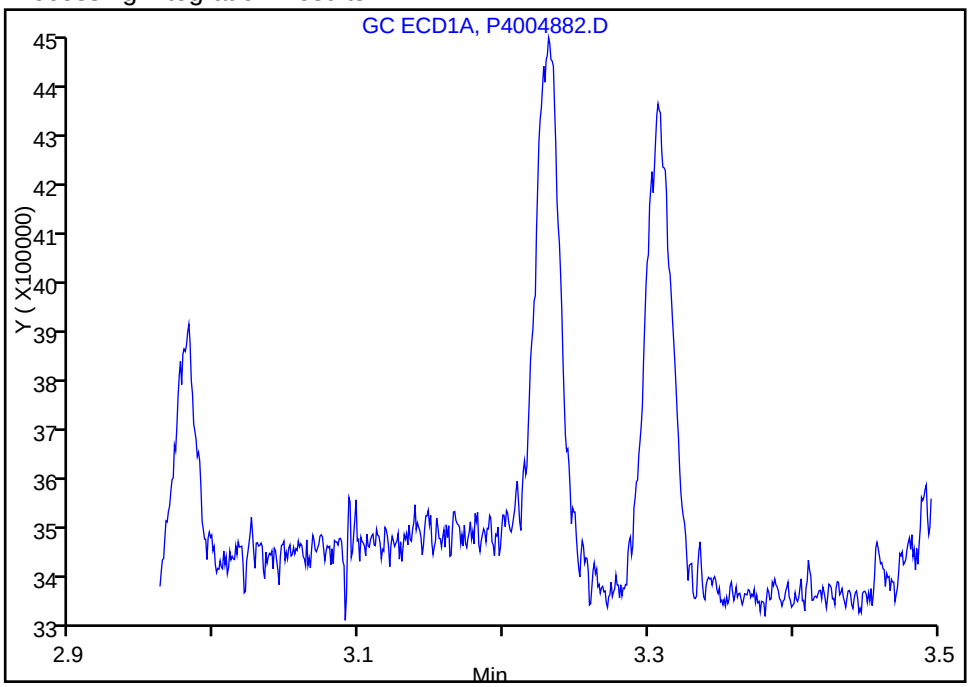
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

32 delta-BHC, CAS: 319-86-8

Signal: 1

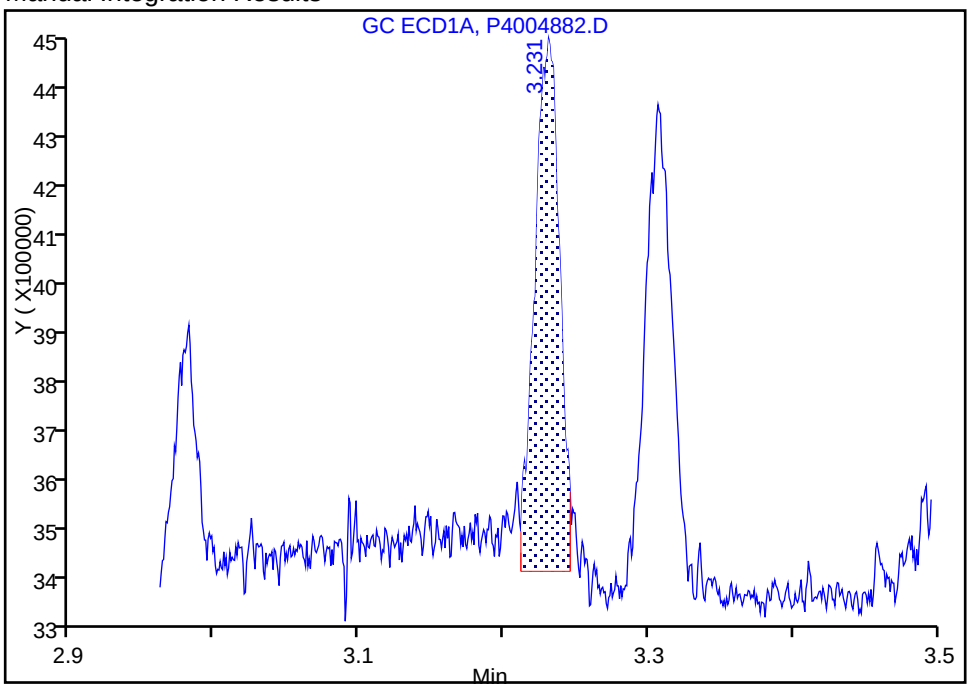
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 1191307
Amount: 2.742528
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:50:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

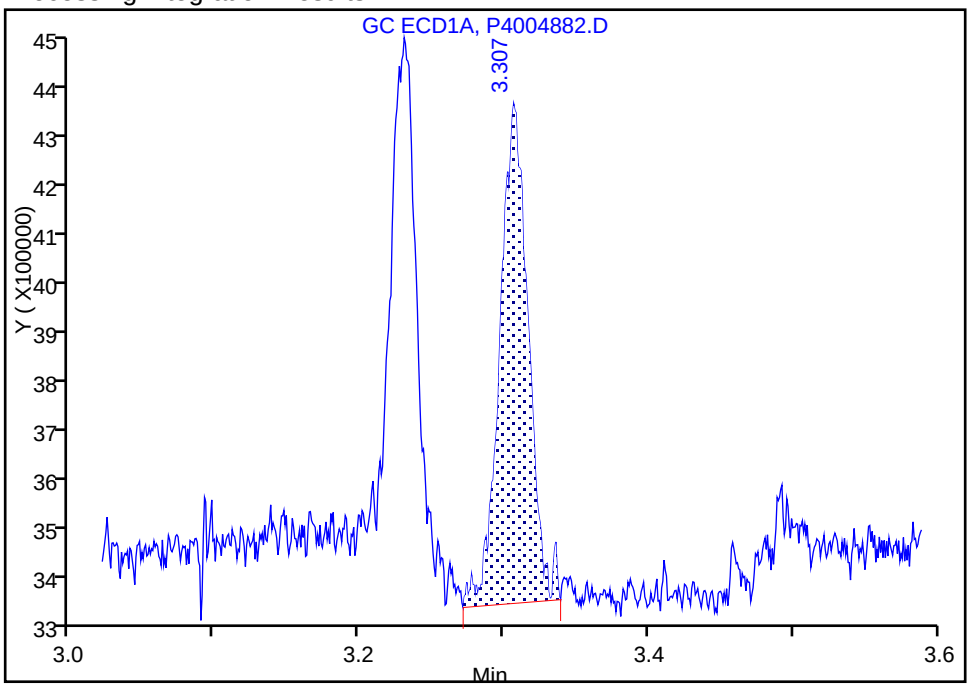
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

18 Heptachlor, CAS: 76-44-8

Signal: 1

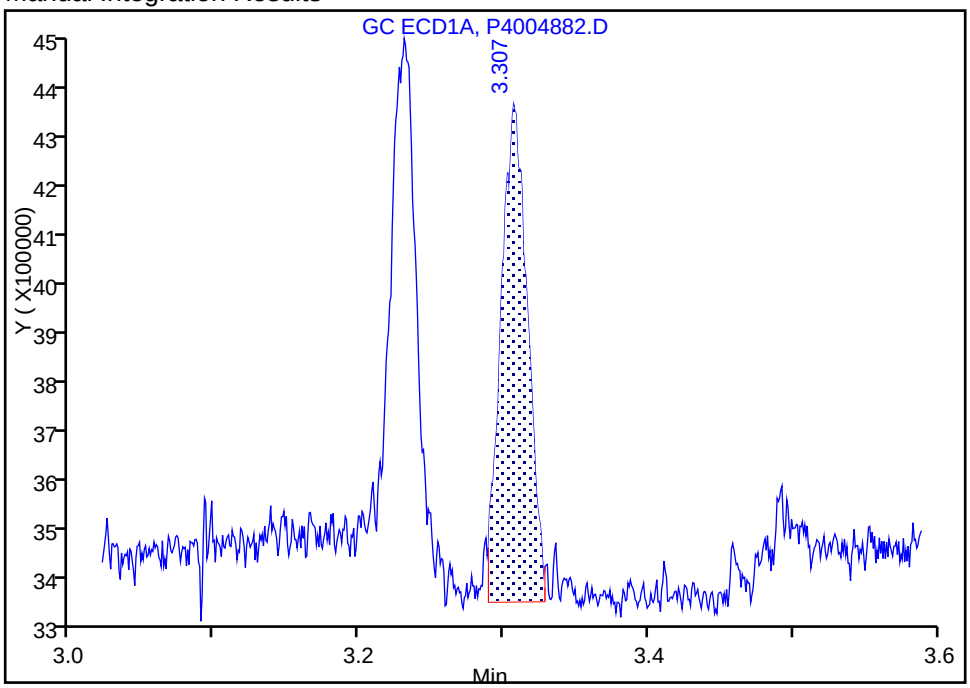
Processing Integration Results

RT: 3.31
Area: 1284921
Amount: 2.991433
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 1195306
Amount: 2.830035
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:31

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

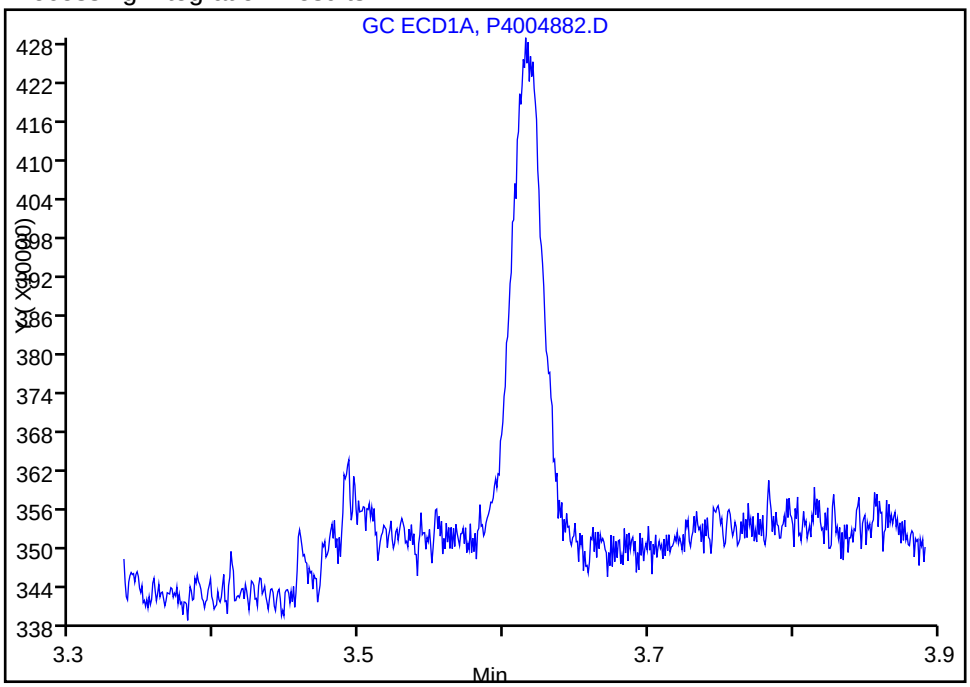
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL1		
Client ID:			
Operator ID:		ALS Bottle#: 3	Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

8 Aldrin, CAS: 309-00-2

Signal: 1

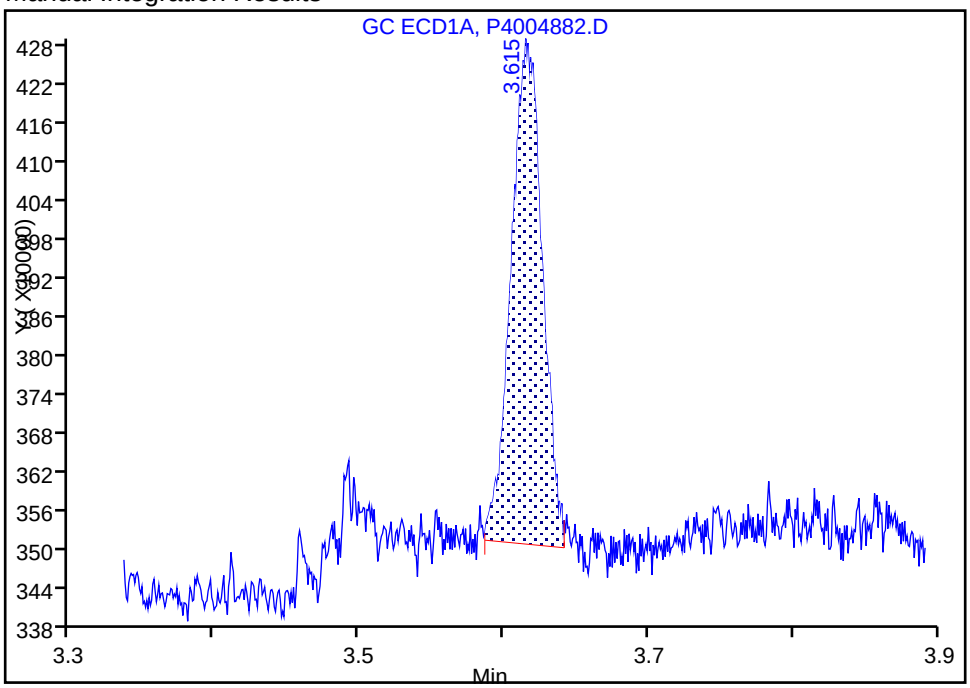
Not Detected
Expected RT: 3.60

Processing Integration Results



Manual Integration Results

RT: 3.61
Area: 1164753
Amount: 2.925105
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

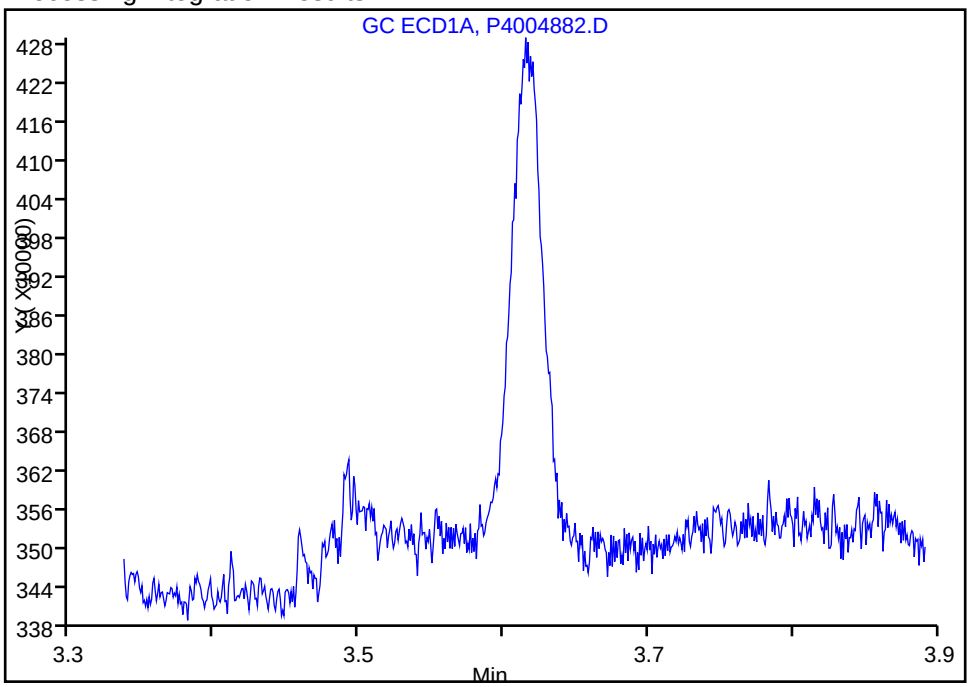
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

8 Aldrin, CAS: 309-00-2

Signal: 1

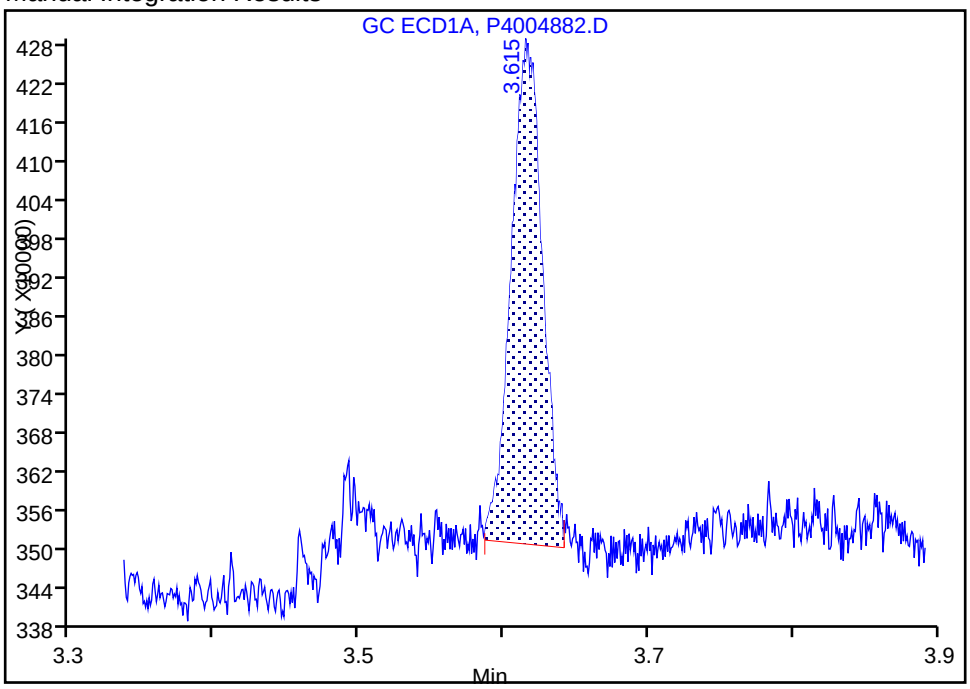
Not Detected
Expected RT: 3.60

Processing Integration Results



Manual Integration Results

RT: 3.61
Area: 1164753
Amount: 2.925105
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 11:15:40
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

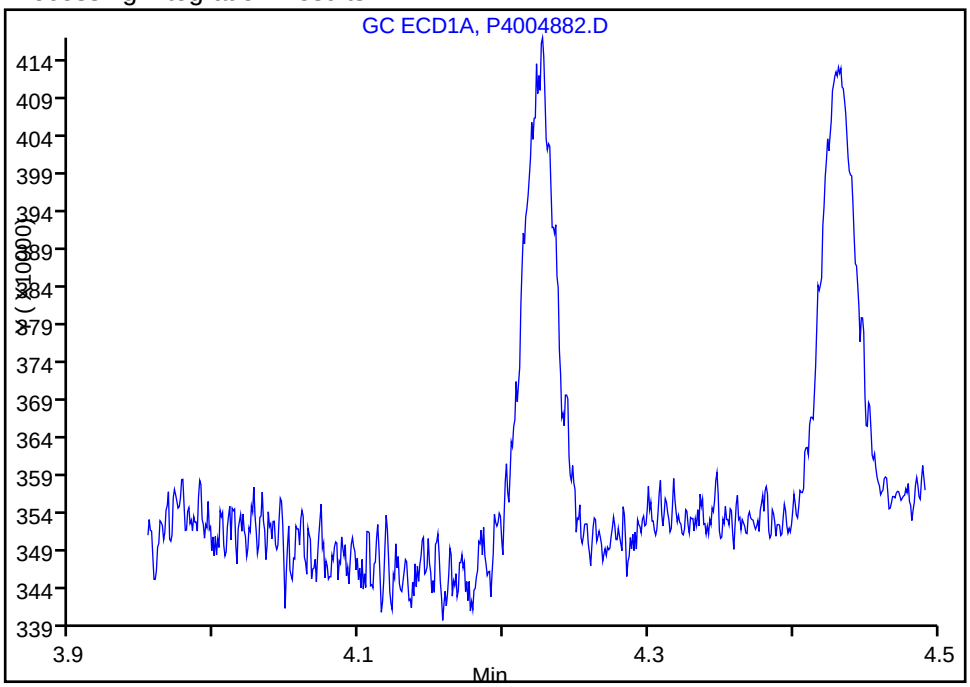
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

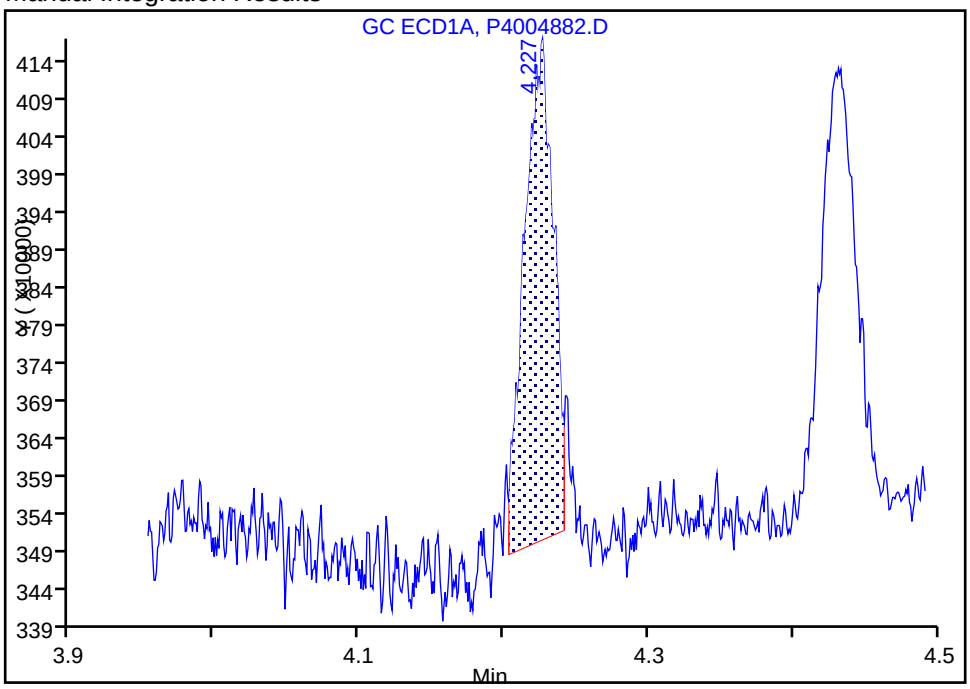
Not Detected
Expected RT: 4.21

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 911326
Amount: 2.514504
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:28
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

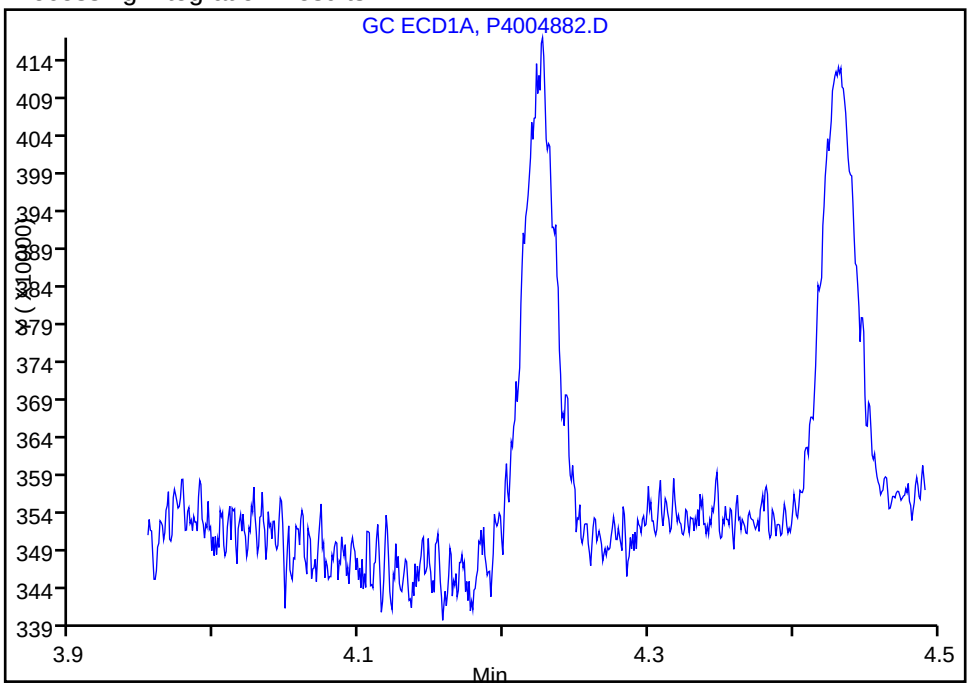
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

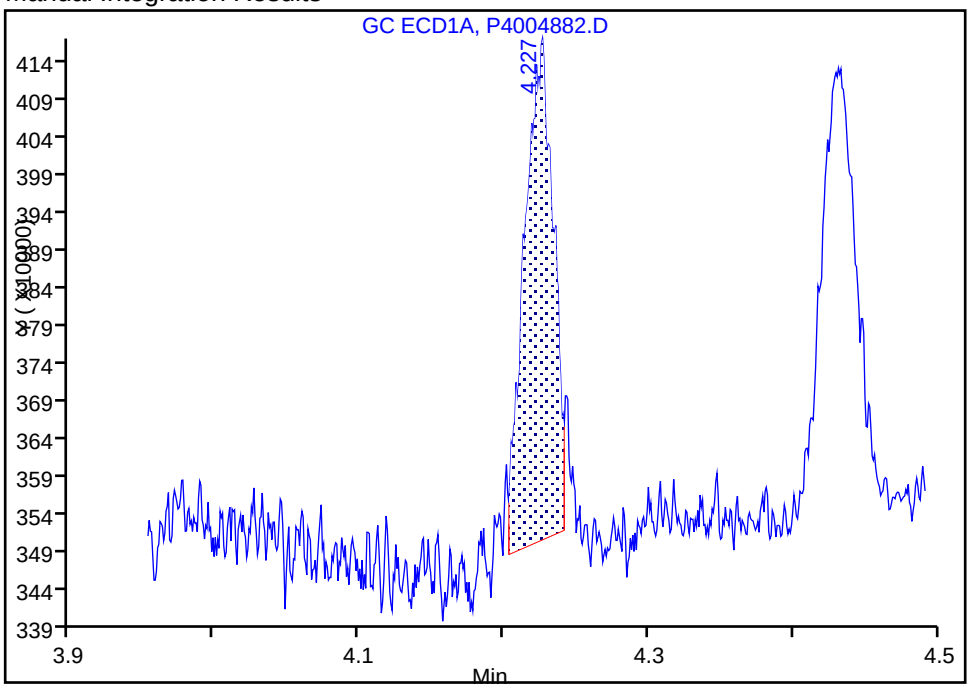
Processing Integration Results

Not Detected
Expected RT: 4.21



Manual Integration Results

RT: 4.23
Area: 911326
Amount: 2.514504
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:04:15
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

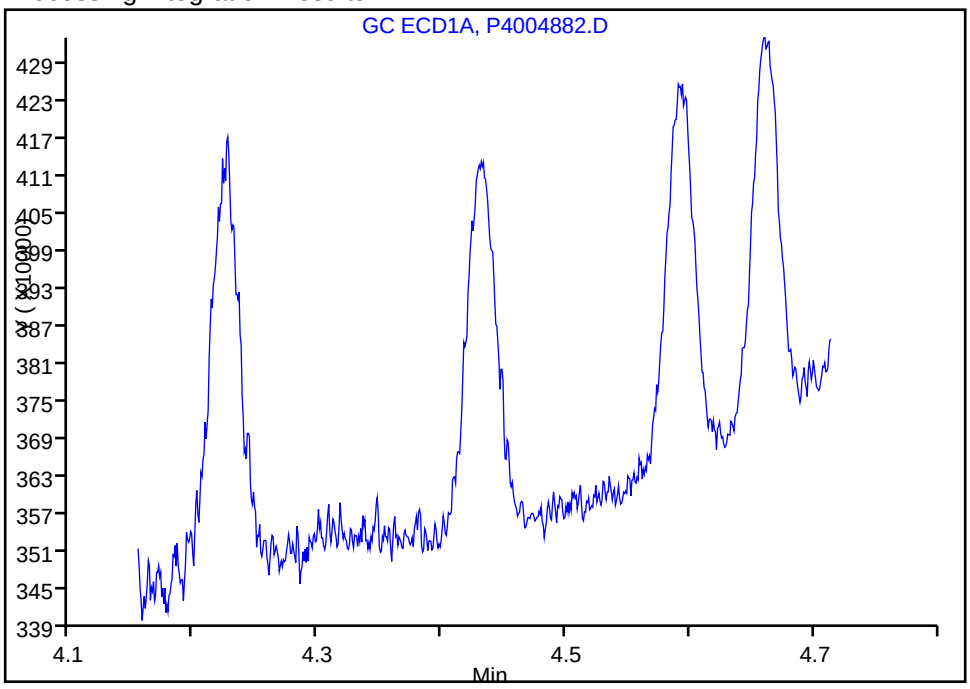
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

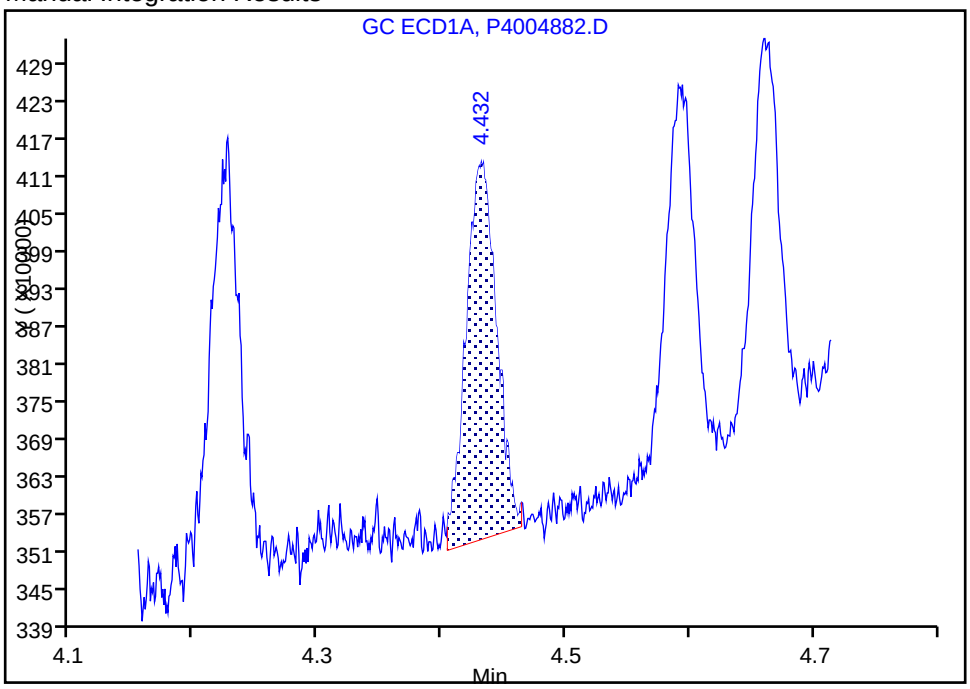
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 1027152
Amount: 2.832687
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:44
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

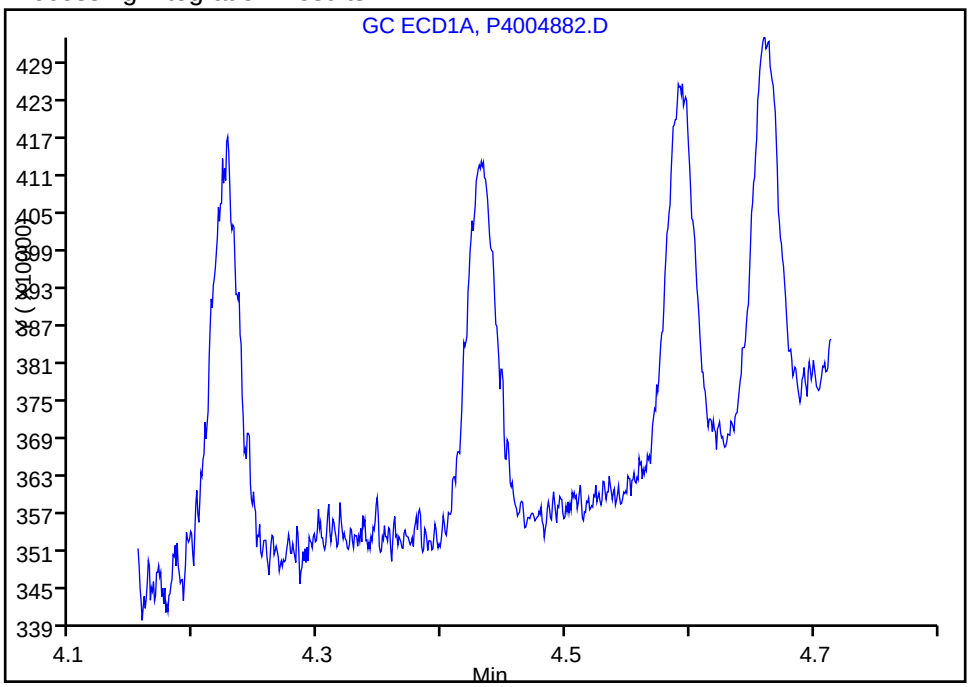
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

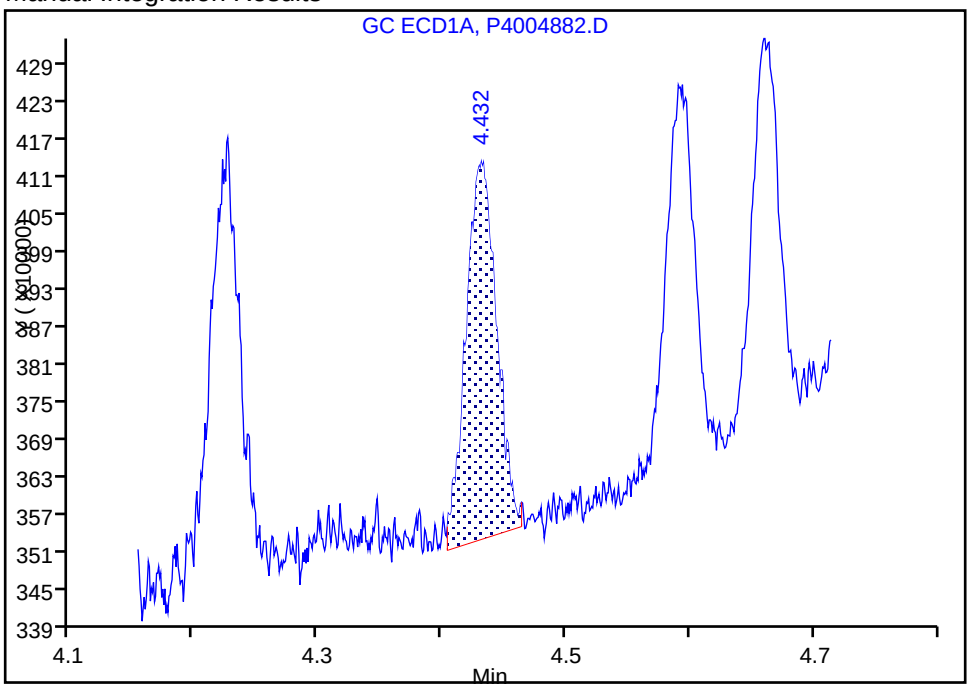
Processing Integration Results

Not Detected
Expected RT: 4.42



Manual Integration Results

RT: 4.43
Area: 1027152
Amount: 2.832687
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:05:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

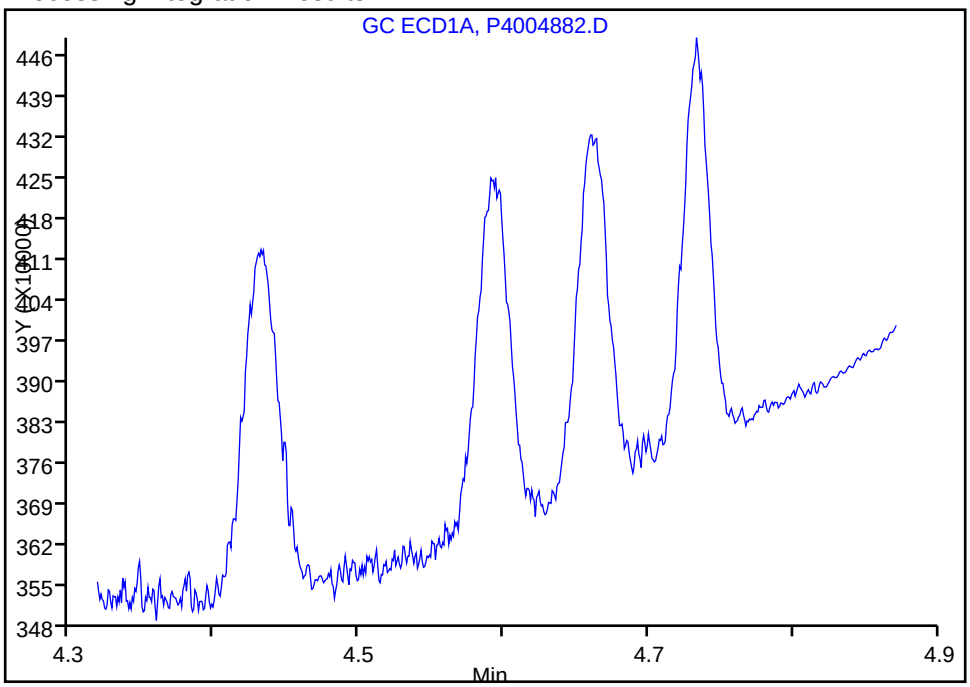
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

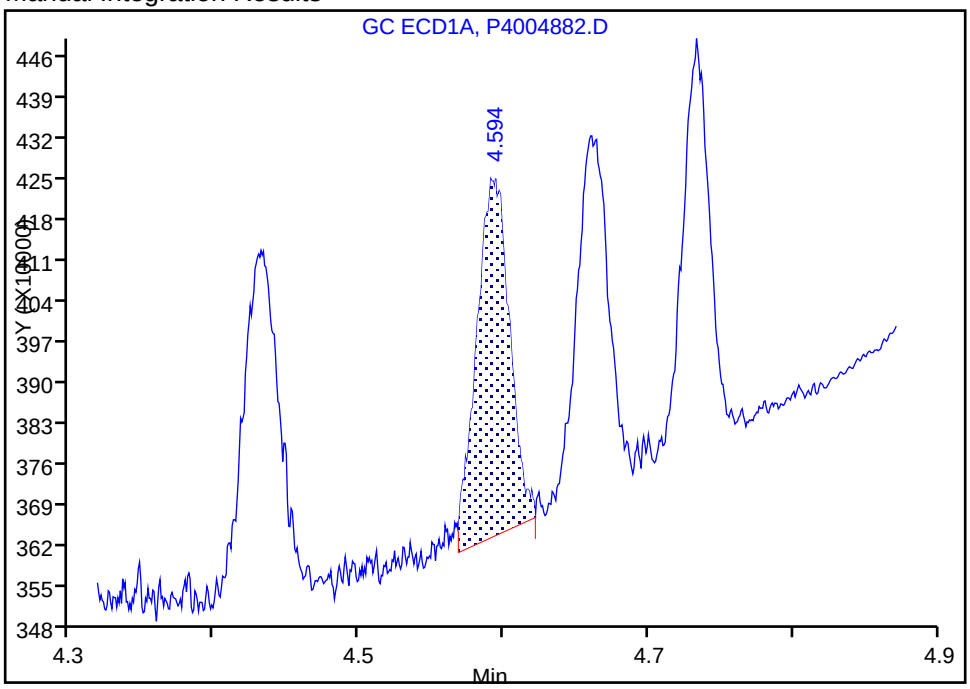
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 973142
Amount: 2.837969
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:56
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

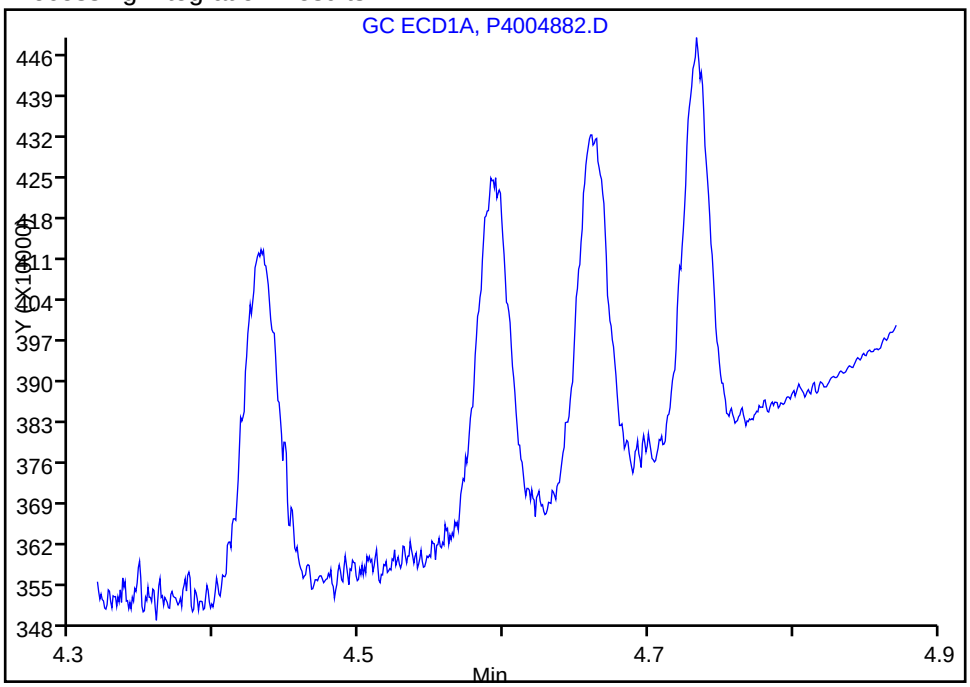
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

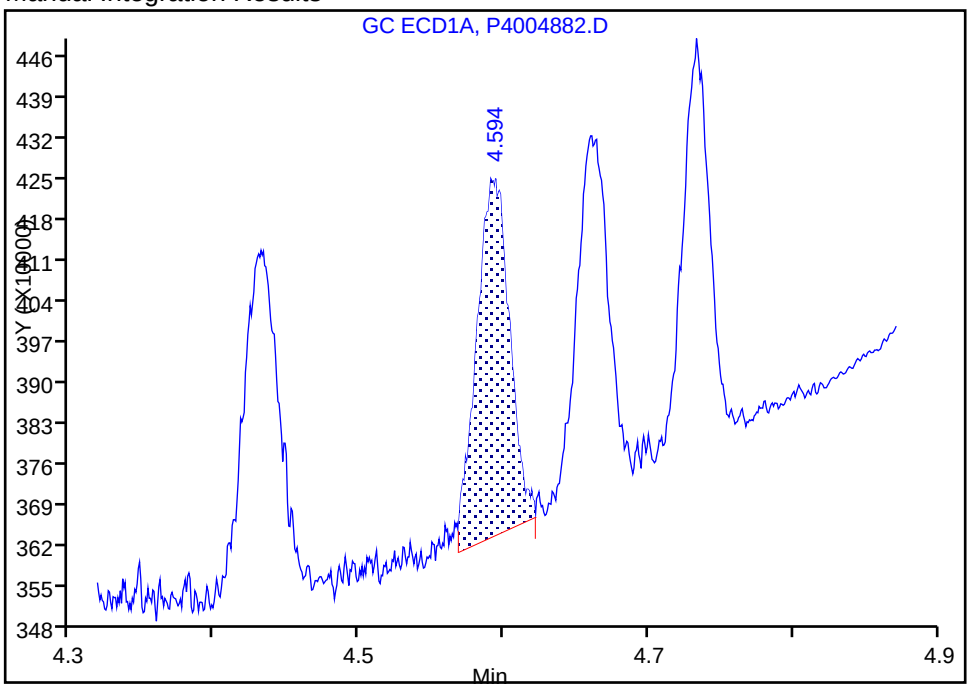
Processing Integration Results

Not Detected
Expected RT: 4.58



Manual Integration Results

RT: 4.59
Area: 973142
Amount: 2.837969
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:57
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

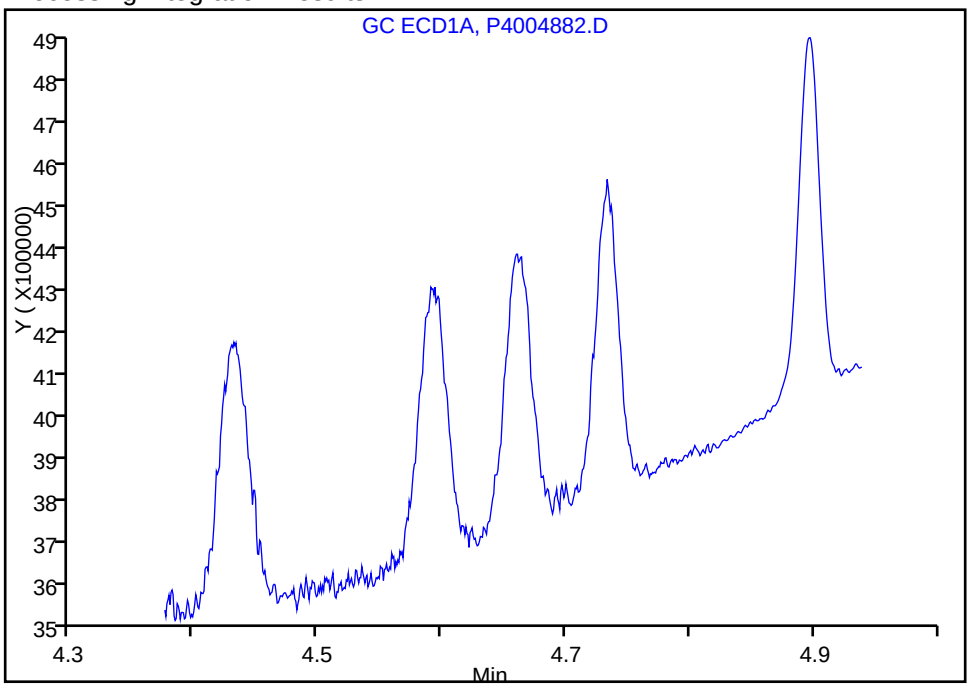
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

7 Endosulfan I, CAS: 959-98-8

Signal: 1

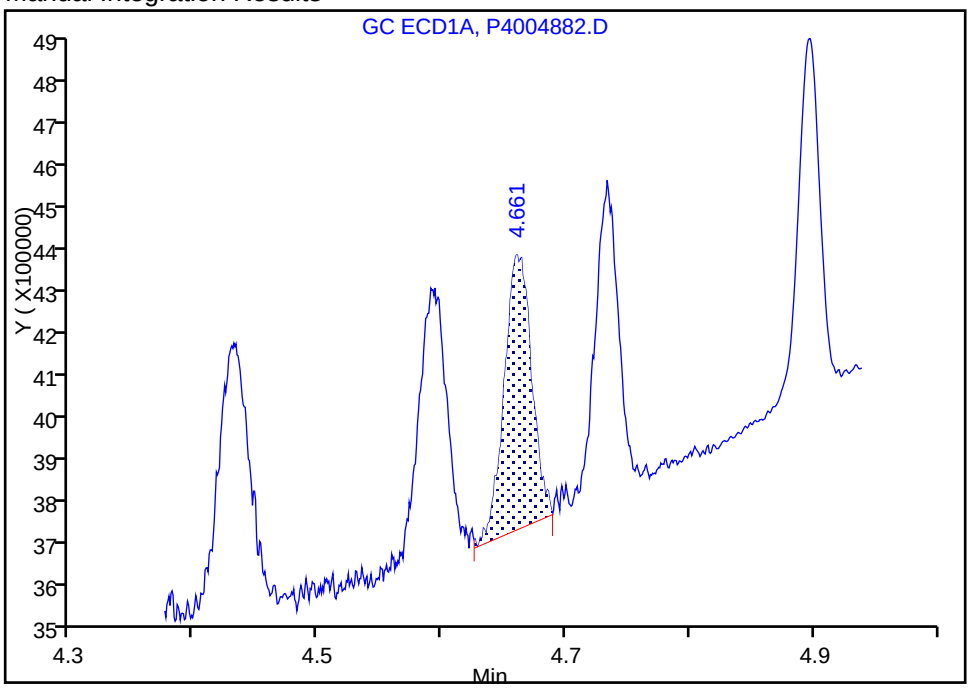
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 935618
Amount: 2.816202
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:07
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

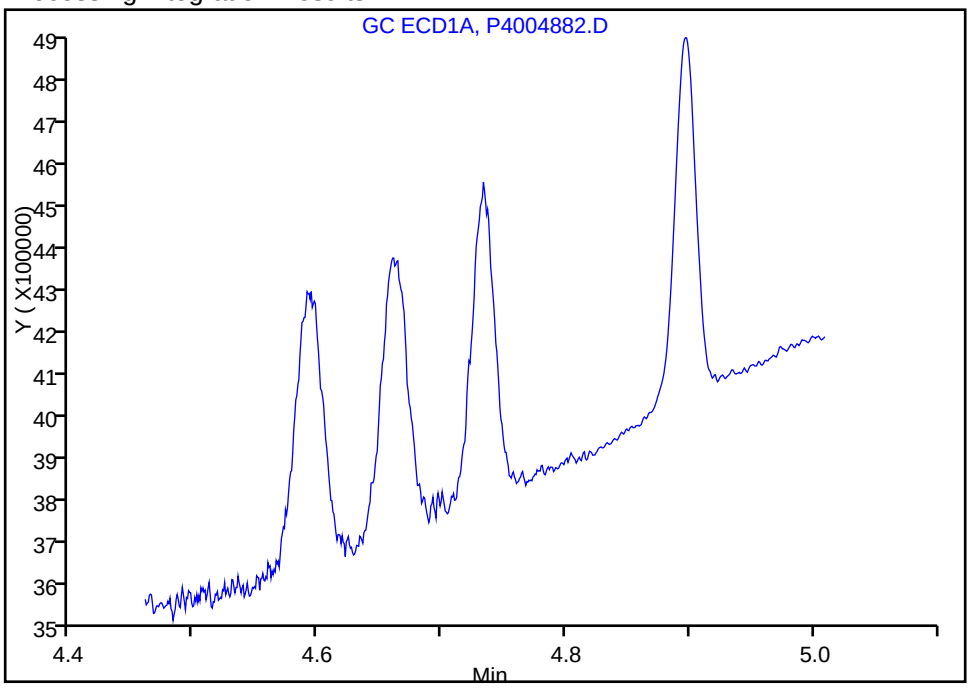
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

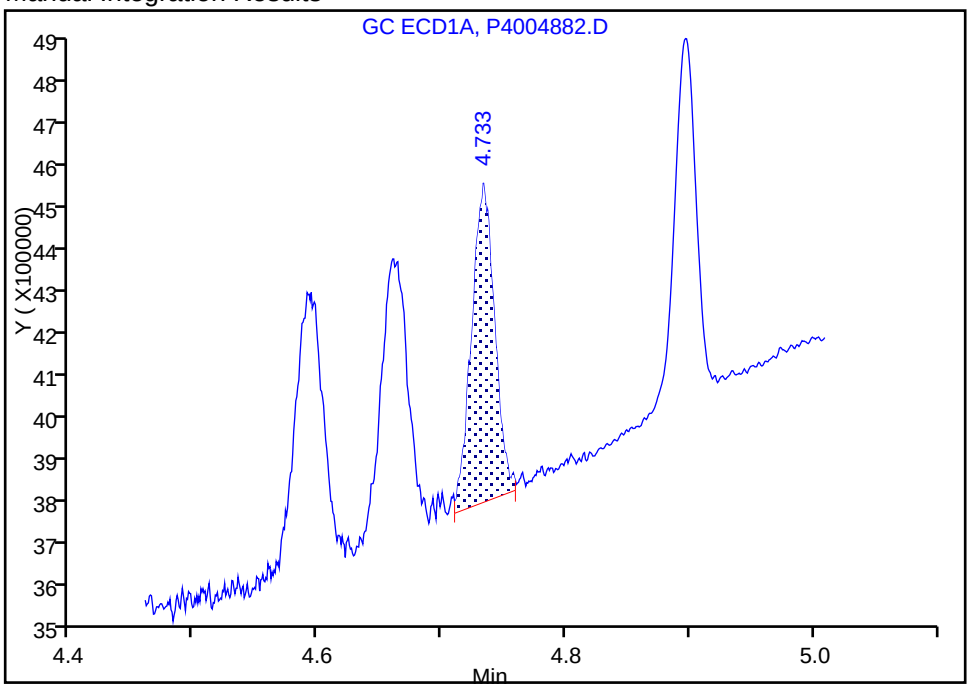
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.73
Area: 892866
Amount: 2.608170
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:24
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

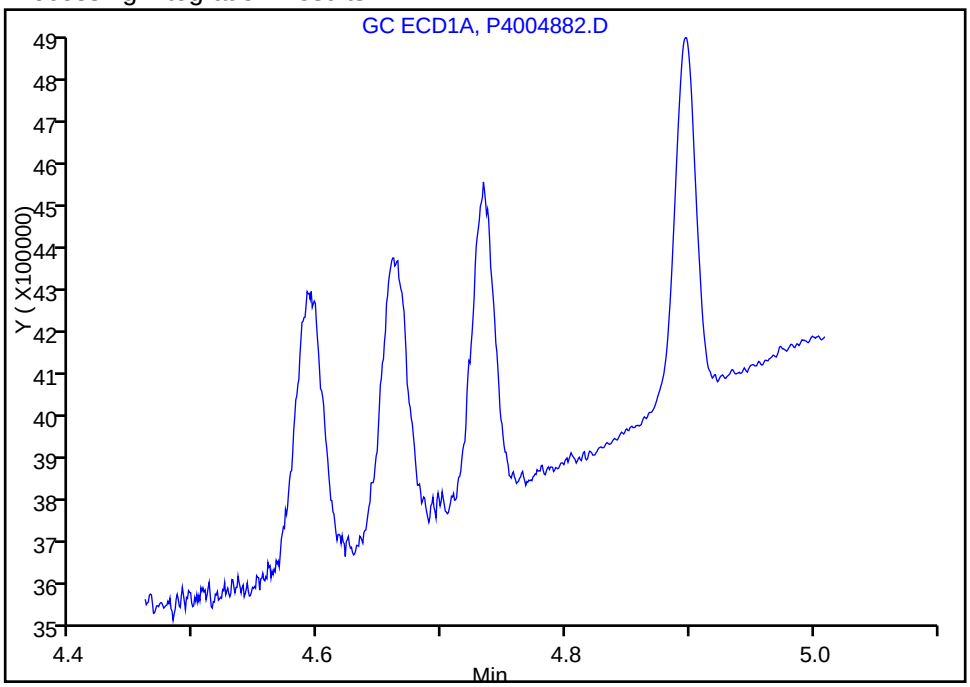
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

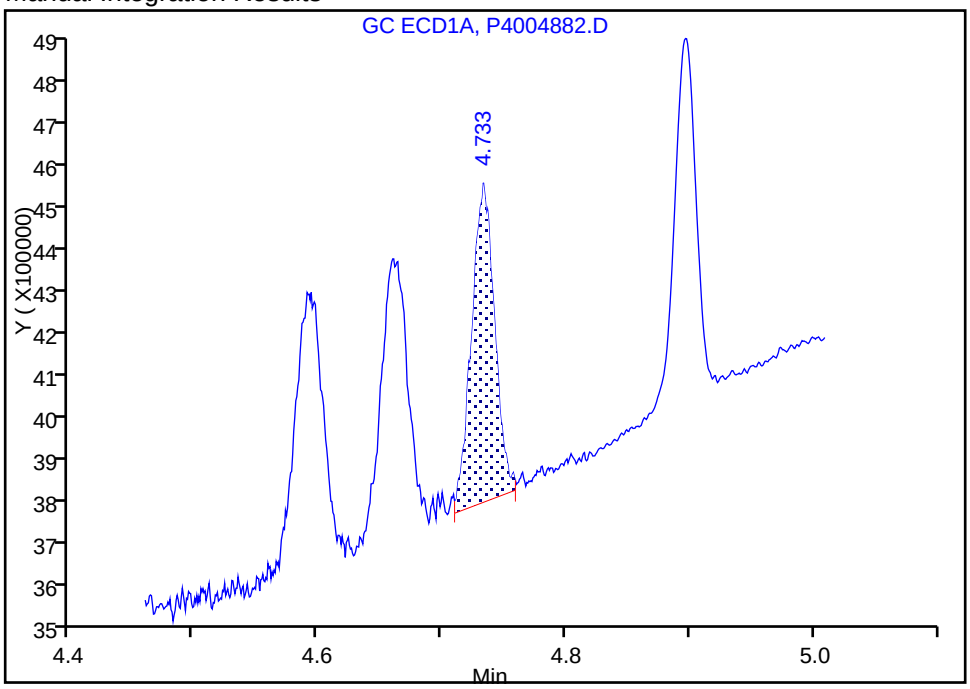
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.73
Area: 892866
Amount: 2.608170
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:40
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

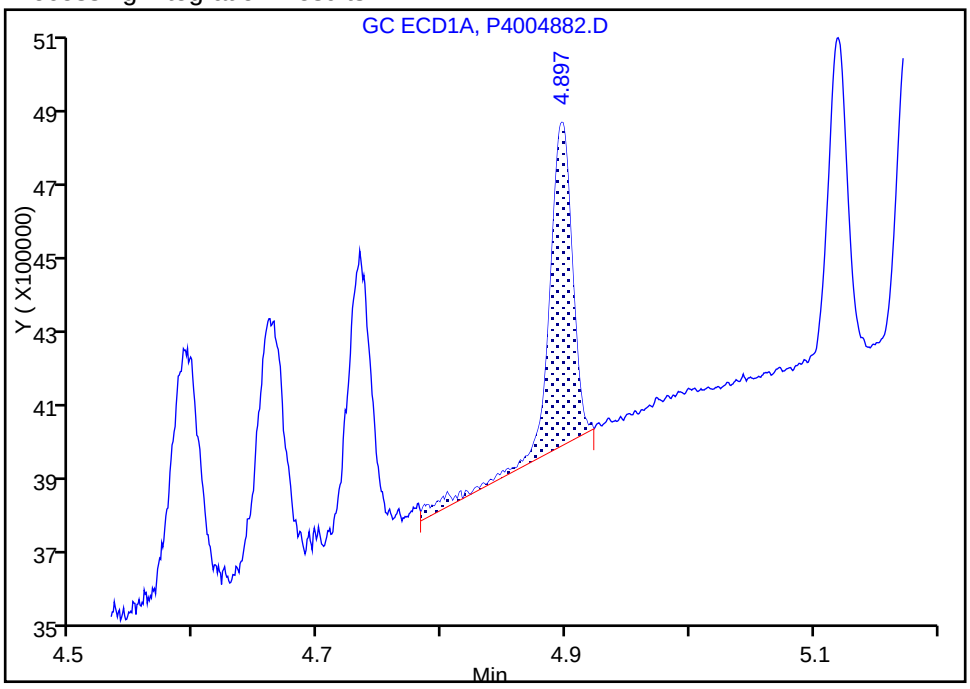
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

30 Dieldrin, CAS: 60-57-1

Signal: 1

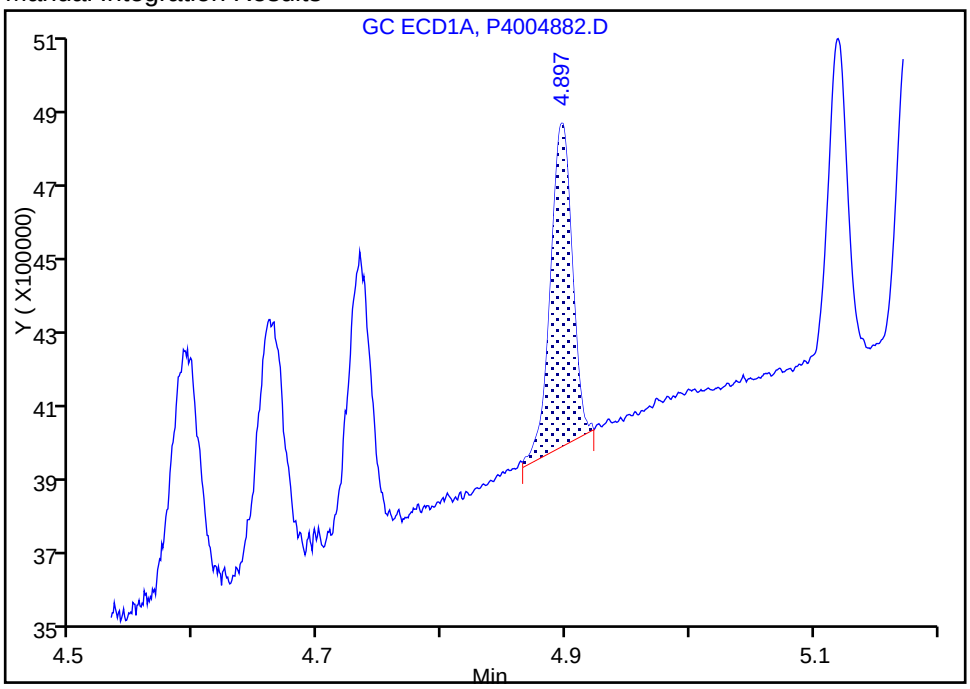
Processing Integration Results

RT: 4.90
Area: 1038061
Amount: 2.812209
Amount Units: ug/l



Manual Integration Results

RT: 4.90
Area: 967073
Amount: 2.660833
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:37
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

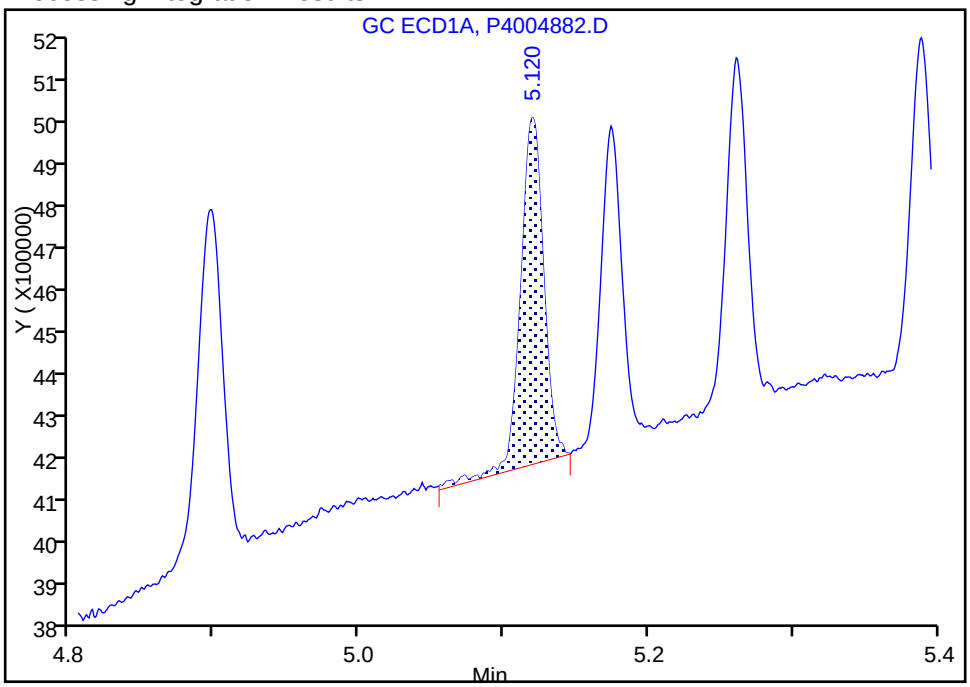
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

20 Endrin, CAS: 72-20-8

Signal: 1

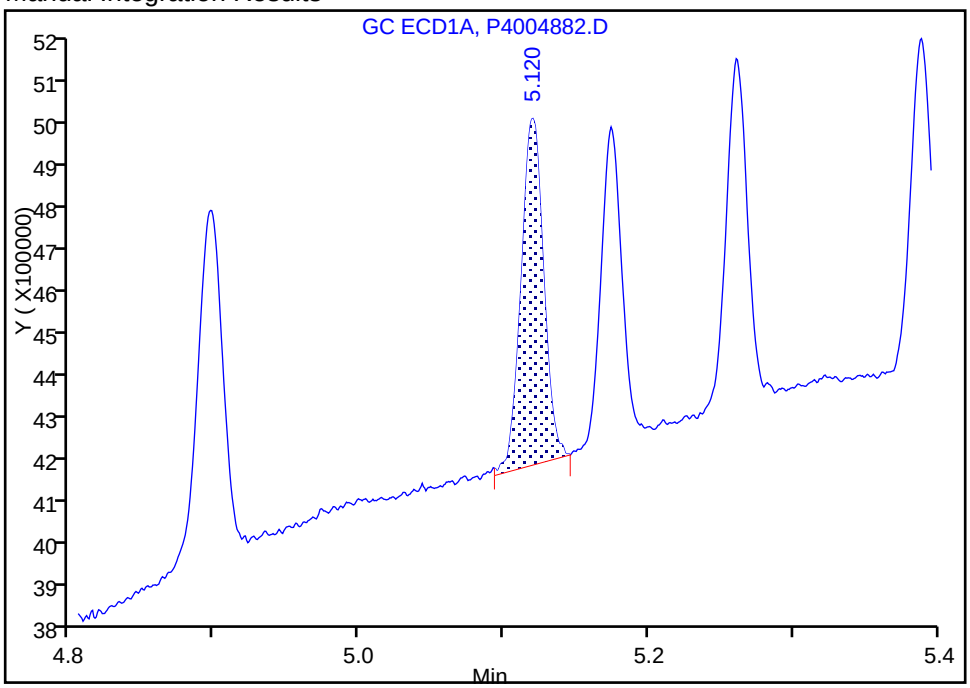
Processing Integration Results

RT: 5.12
Area: 877021
Amount: 2.710555
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 852038
Amount: 2.649709
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:41

Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

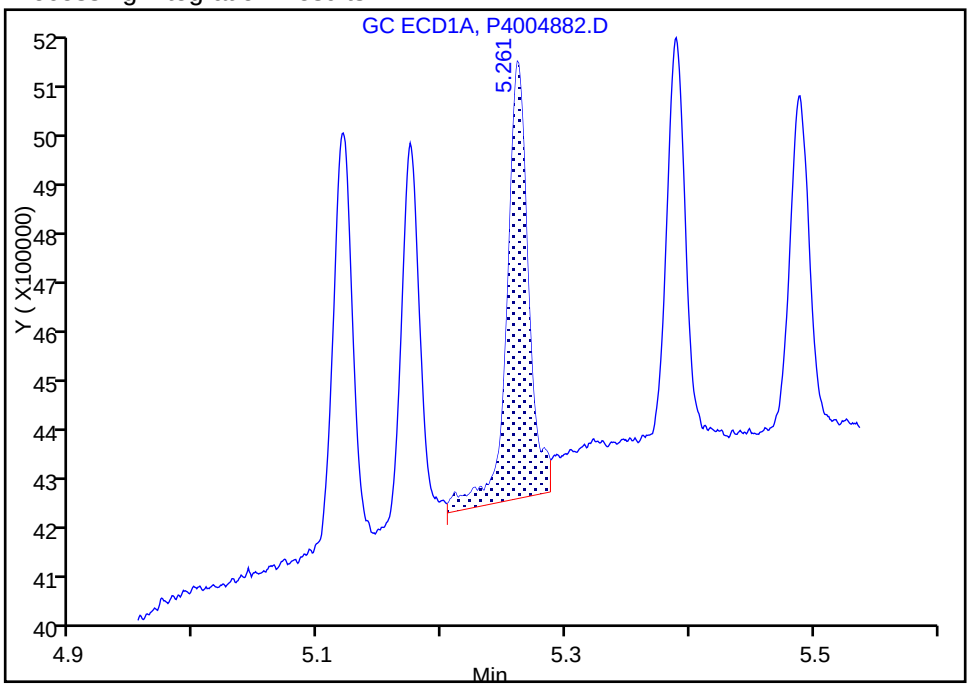
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

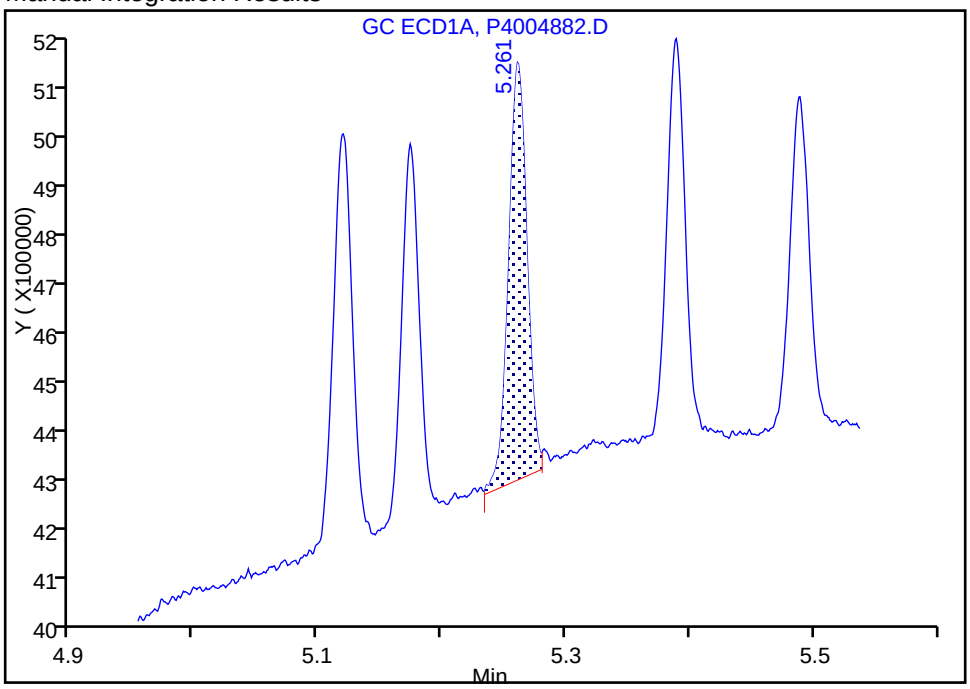
Processing Integration Results

RT: 5.26
Area: 1003246
Amount: 3.105393
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 820853
Amount: 2.648734
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:47

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

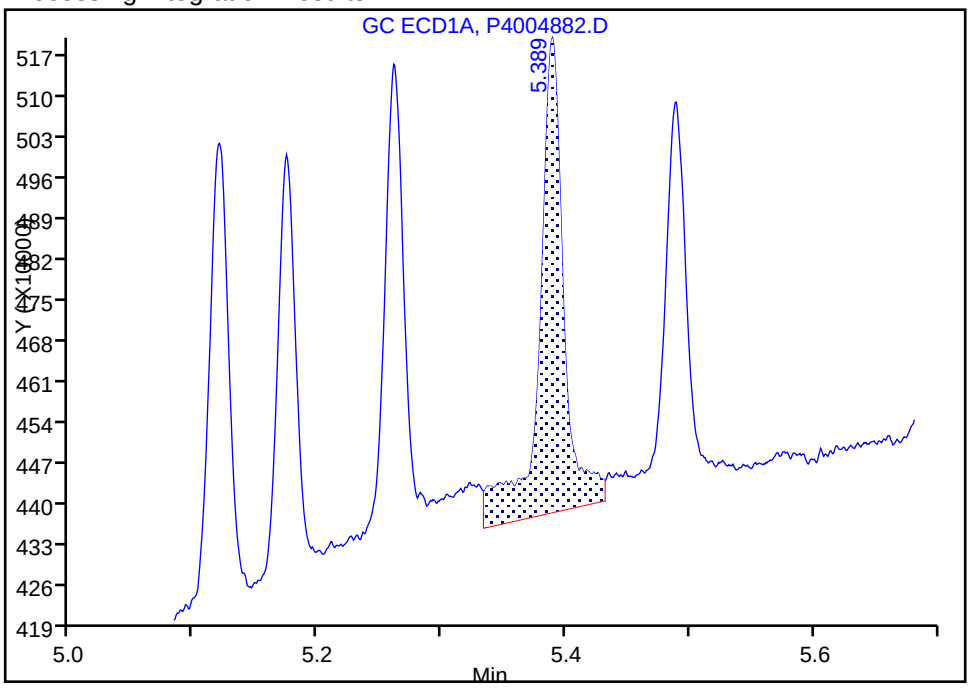
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

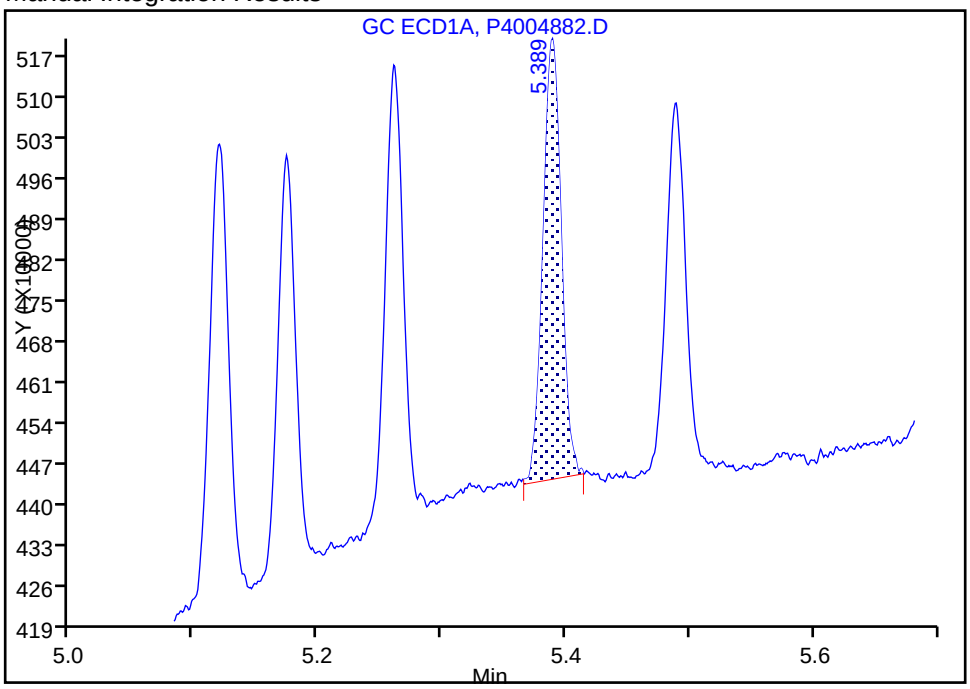
Processing Integration Results

RT: 5.39
Area: 1126631
Amount: 2.225593
Amount Units: ug/l



Manual Integration Results

RT: 5.39
Area: 771321
Amount: 2.546739
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:49

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

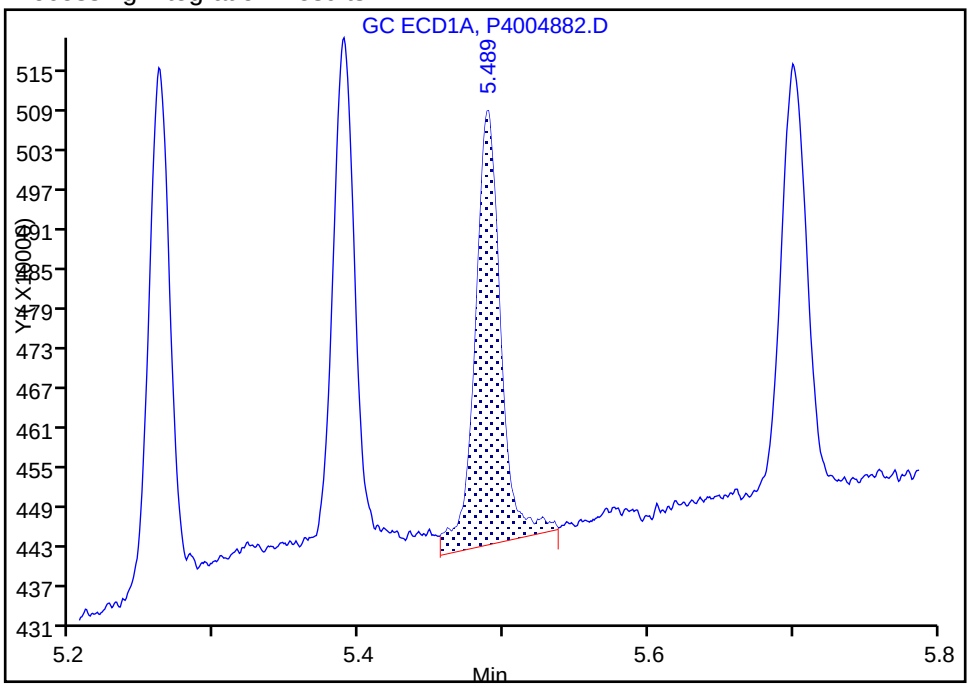
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

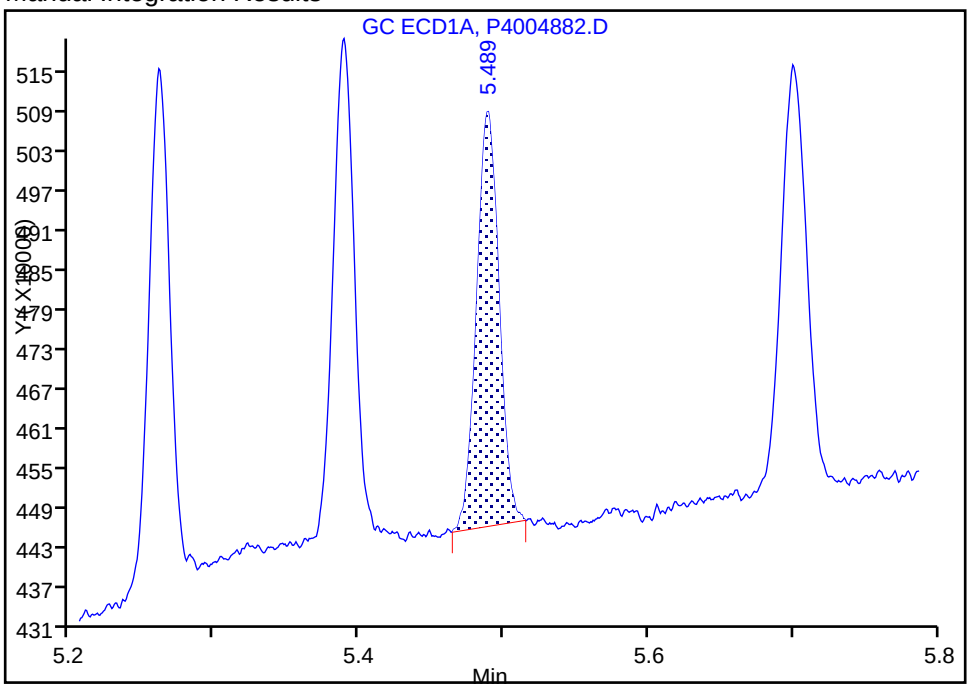
Processing Integration Results

RT: 5.49
Area: 804971
Amount: 2.974844
Amount Units: ug/l



Manual Integration Results

RT: 5.49
Area: 675307
Amount: 2.590002
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:53

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

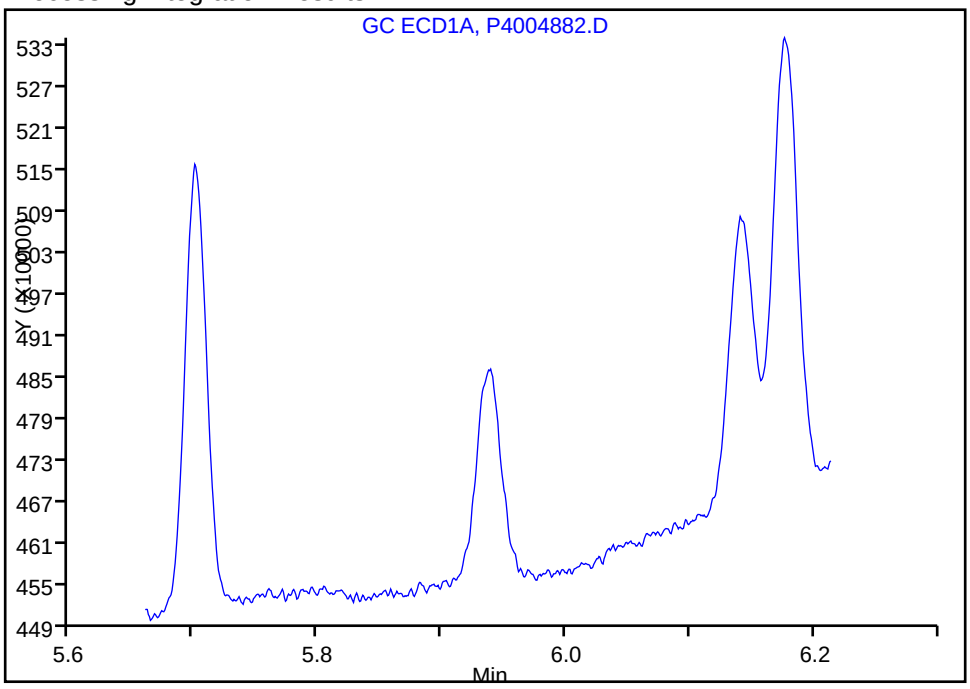
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

10 Methoxychlor, CAS: 72-43-5

Signal: 1

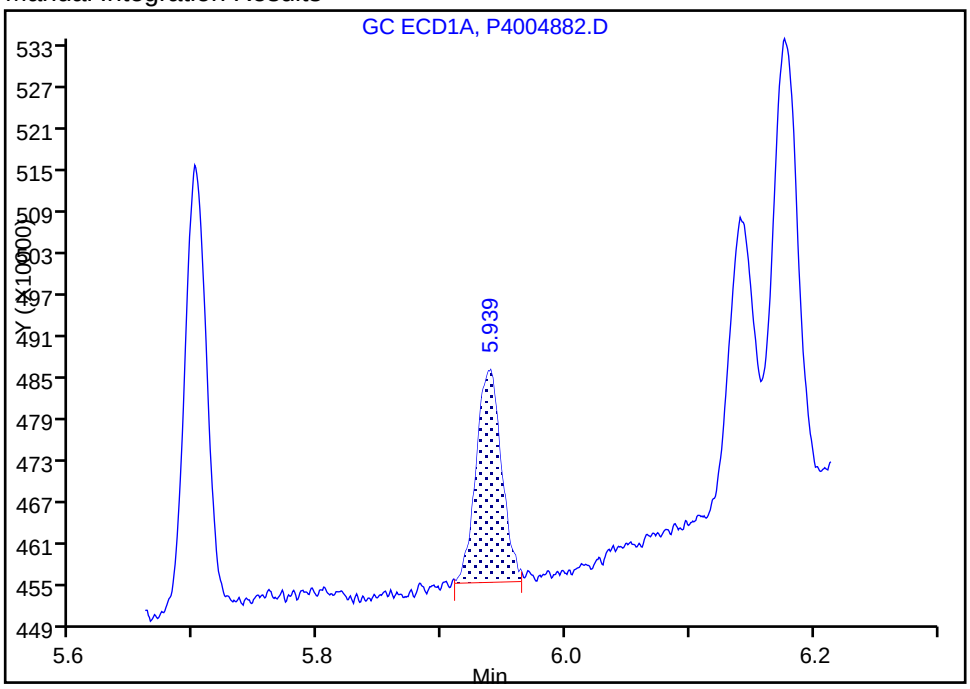
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.94
Area: 434392
Amount: 2.628053
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:43
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

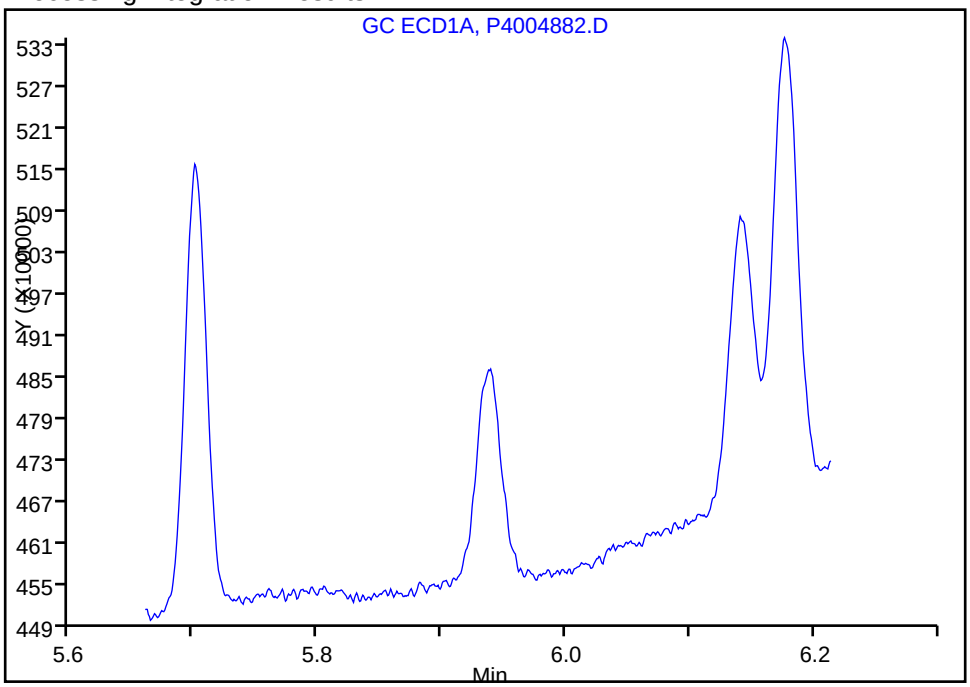
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

10 Methoxychlor, CAS: 72-43-5

Signal: 1

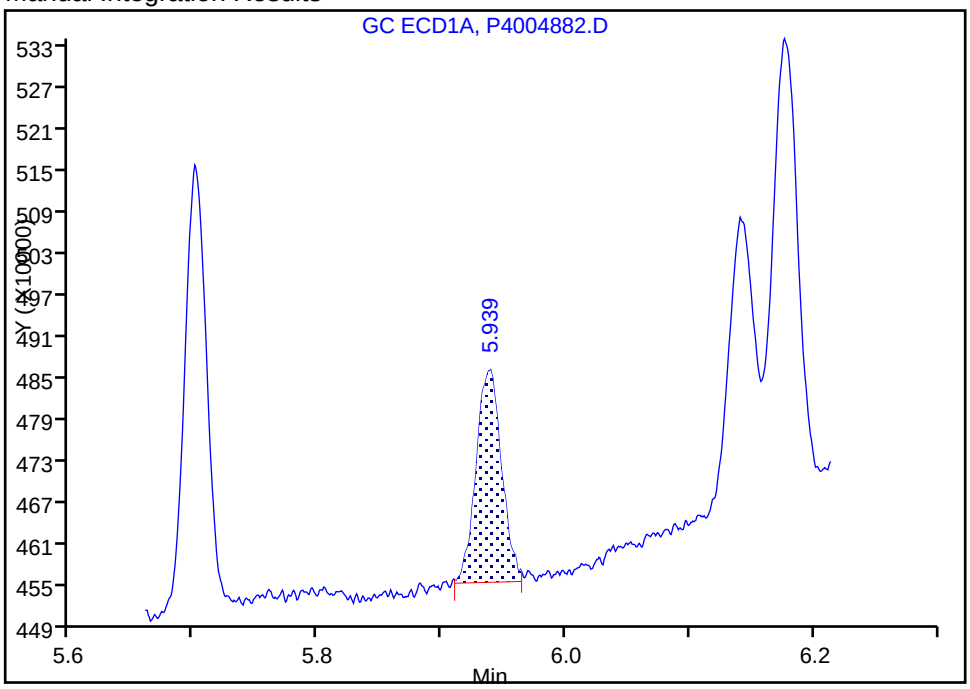
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.94
Area: 434392
Amount: 2.628053
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:52:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

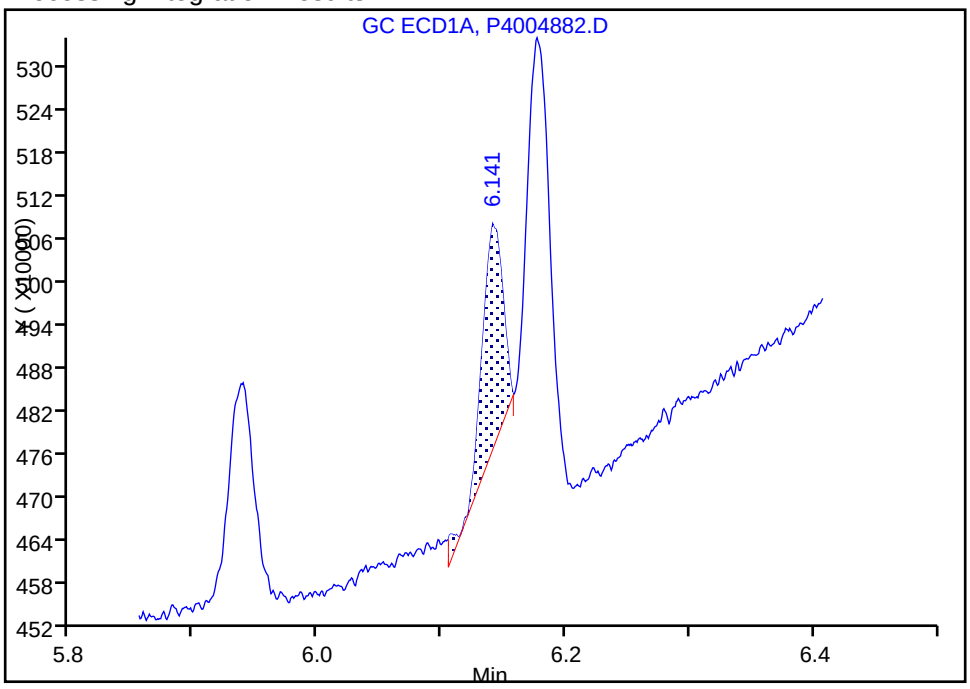
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

34 Mirex, CAS: 2385-85-5

Signal: 1

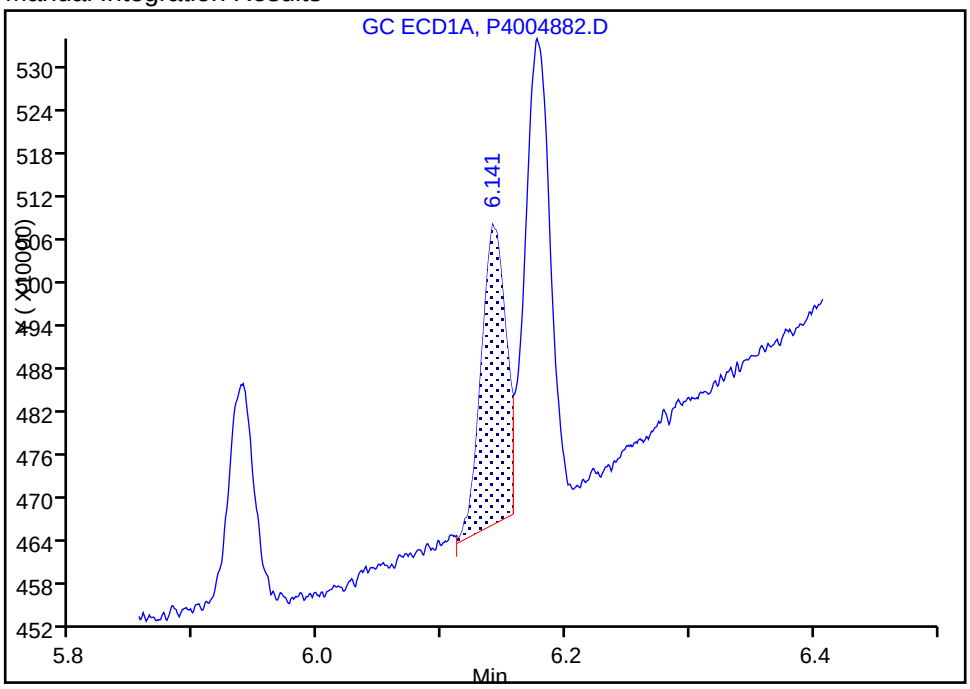
Processing Integration Results

RT: 6.14
Area: 364868
Amount: 1.863642
Amount Units: ug/l



Manual Integration Results

RT: 6.14
Area: 574199
Amount: 2.711820
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:00
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

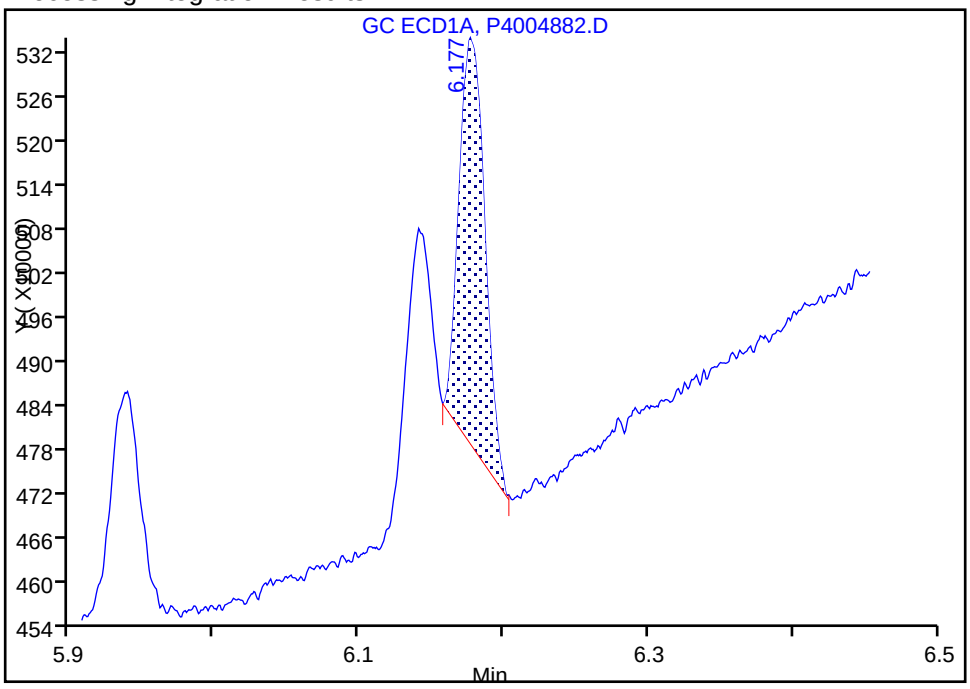
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

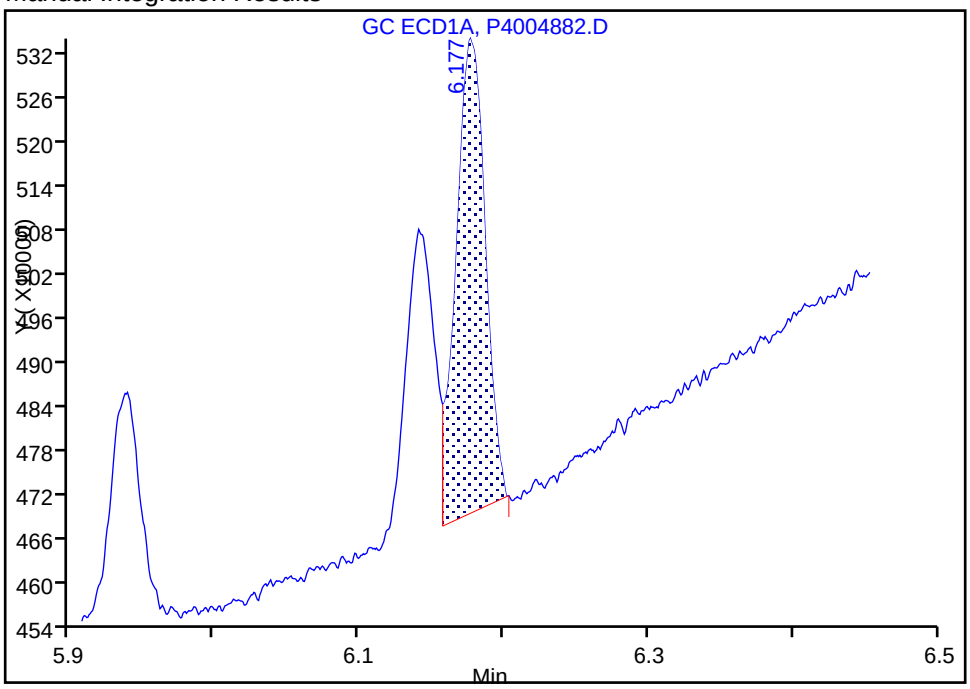
Processing Integration Results

RT: 6.18
Area: 682380
Amount: 2.129386
Amount Units: ug/l



Manual Integration Results

RT: 6.18
Area: 898789
Amount: 2.665805
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:58:26

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

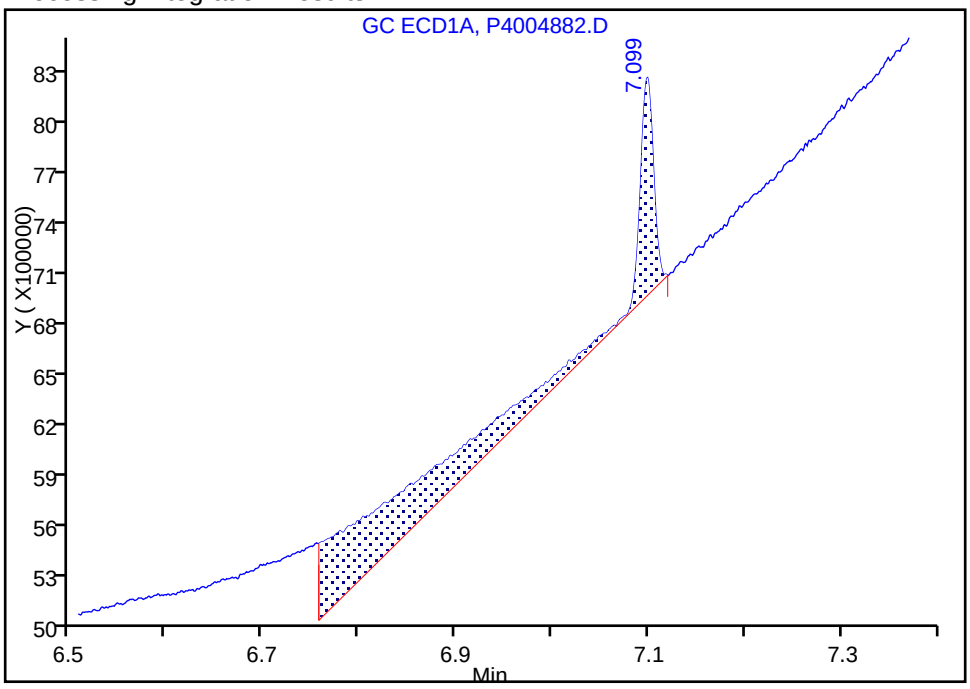
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

$ 24 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

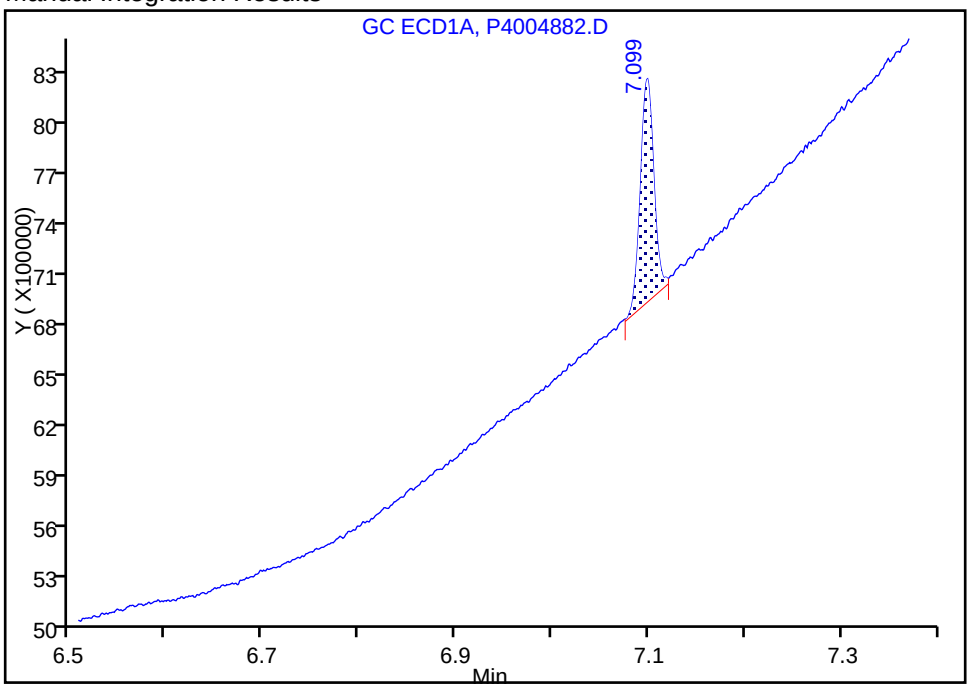
Processing Integration Results

RT: 7.10
Area: 4803020
Amount: 7.326267
Amount Units: ug/l



Manual Integration Results

RT: 7.10
Area: 1259714
Amount: 5.357092
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:41:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 08:34:19 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-004
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:36:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	30995442	100.0	100.0	
2	1.514	1.513	0.001	41249170	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.230	0.003	15222511	50.0	49.2	
2	1.887	1.885	0.002	19404595	50.0	49.7	
						RPD = 0.96	
15 alpha-BHC							
1	2.654	2.651	0.003	22273426	50.0	49.9	
2	2.209	2.208	0.001	28125700	50.0	49.5	
						RPD = 0.86	
2 gamma-BHC (Lindane)							
1	2.922	2.918	0.004	21406764	50.0	51.7	
2	2.402	2.400	0.002	25889272	50.0	49.9	
						RPD = 3.50	
6 beta-BHC							
1	2.971	2.967	0.004	9807394	50.0	54.2	
2	2.448	2.447	0.001	11597674	50.0	51.6	
						RPD = 4.98	
32 delta-BHC							
1	3.220	3.218	0.002	21741221	50.0	51.4	
2	2.565	2.563	0.002	25739135	50.0	49.7	
						RPD = 3.52	
18 Heptachlor							
1	3.297	3.294	0.003	21115027	50.0	51.4	
2	2.699	2.698	0.001	25502692	50.0	50.1	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.605	3.603	0.002	20146283	50.0	52.0	M
2	2.907	2.905	0.002	22924487	50.0	48.6	
						RPD = 6.71	
12 Heptachlor epoxide							M
1	4.210	4.208	0.002	18929078	50.0	53.7	M
2	3.361	3.359	0.002	22174471	50.0	49.9	
						RPD = 7.33	
9 gamma-Chlordane							M
1	4.419	4.418	0.001	17992167	50.0	51.0	M
2	3.464	3.462	0.002	22027564	50.0	49.9	
						RPD = 2.26	
23 alpha-Chlordane							
1	4.580	4.578	0.002	16937472	50.0	50.8	
2	3.579	3.577	0.002	21460792	50.0	50.0	
						RPD = 1.60	
7 Endosulfan I							
1	4.651	4.648	0.003	16278318	50.0	50.4	
2	3.711	3.709	0.002	21290606	50.0	50.8	
						RPD = 0.84	
25 4,4'-DDE							
1	4.723	4.722	0.001	17087976	50.0	51.3	
2	3.634	3.632	0.002	21496333	50.0	50.4	
						RPD = 1.74	
30 Dieldrin							
1	4.889	4.886	0.003	17932440	50.0	50.7	
2	3.945	3.943	0.002	23215863	50.0	50.1	
						RPD = 1.15	
20 Endrin							
1	5.112	5.110	0.002	15709414	50.0	50.2	
2	4.199	4.198	0.001	21185619	50.0	49.5	
						RPD = 1.52	
16 4,4'-DDD							
1	5.167	5.165	0.002	13829574	50.0	49.6	
2	4.255	4.253	0.002	18476782	50.0	49.7	
						RPD = 0.16	
11 Endosulfan II							
1	5.254	5.253	0.001	14997308	50.0	49.7	
2	4.439	4.437	0.002	20626396	50.0	51.0	
						RPD = 2.47	
21 4,4'-DDT							
1	5.382	5.380	0.002	14759027	50.0	50.1	
2	4.557	4.555	0.002	19665583	50.0	51.0	
						RPD = 1.80	
5 Endrin aldehyde							
1	5.482	5.480	0.002	12666436	50.0	49.9	
2	4.834	4.834	0.000	17226948	50.0	51.0	
						RPD = 2.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.693	5.692	0.001	14704500	50.0	50.5	
2	5.142	5.142	0.000	21141579	50.0	51.2	
						RPD = 1.43	
10 Methoxychlor							
1	5.929	5.927	0.002	8347253	50.0	51.9	
2	4.969	4.968	0.001	10951141	50.0	50.7	
						RPD = 2.38	
34 Mirex							M
1	6.134	6.133	0.001	9955340	50.0	48.3	M
2	5.064	5.063	0.001	14534654	50.0	49.0	
						RPD = 1.49	
13 Endrin ketone							M
1	6.169	6.167	0.002	16702227	50.0	50.9	M
2	5.323	5.323	0.000	24267944	50.0	52.0	
						RPD = 2.08	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.092	0.002	11638272	50.0	50.9	
2	6.117	6.116	0.001	19292555	50.0	51.6	
						RPD = 1.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

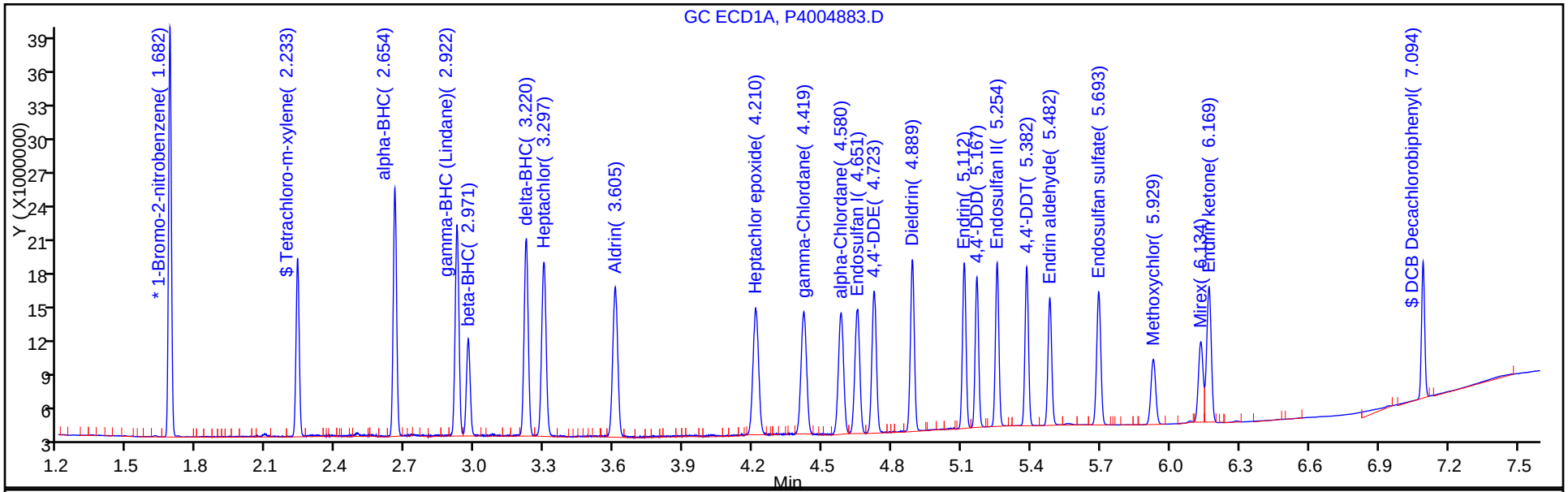
SGPESTL2_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

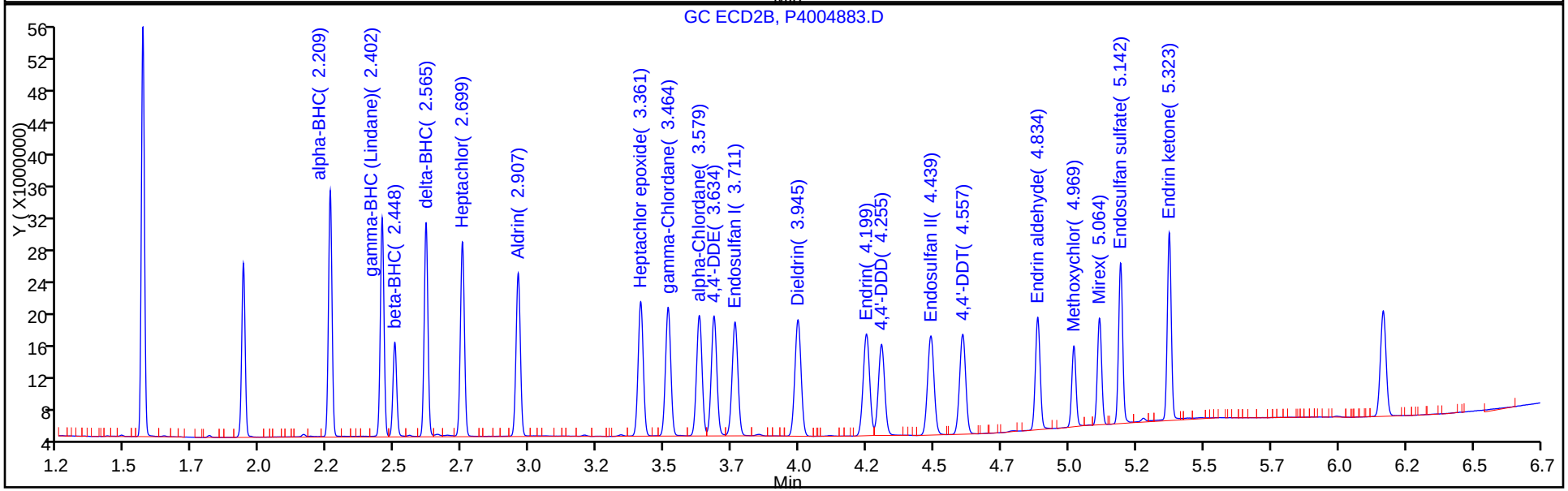
Report Date: 27-Sep-2017 13:43:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D

Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

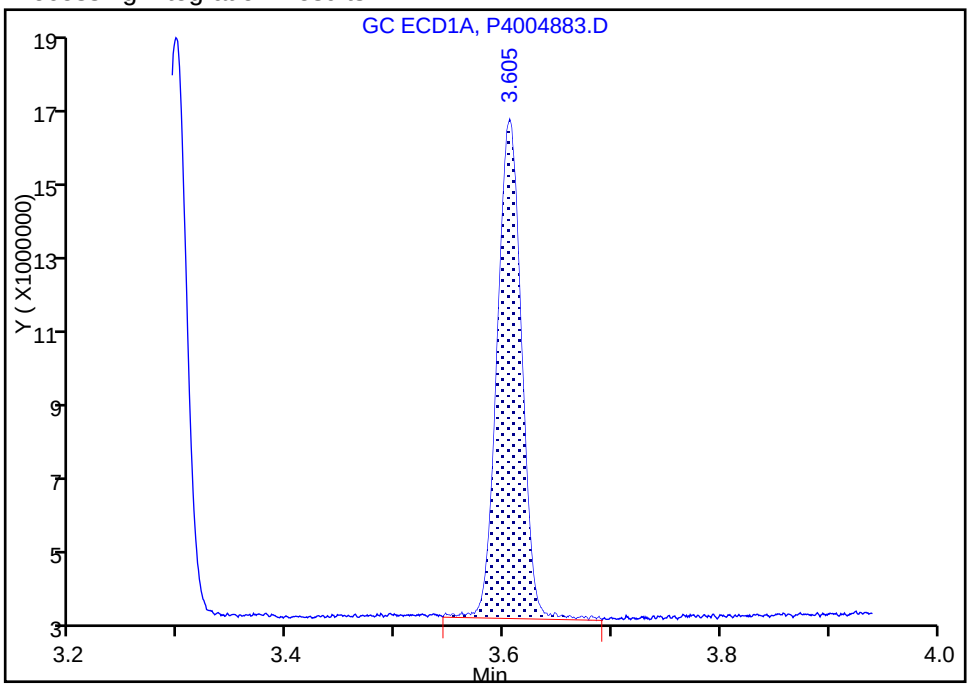
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Injection Date: 27-Sep-2017 08:34:19 Instrument ID: CPESTGC4
Lims ID: STD PESTL2
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

8 Aldrin, CAS: 309-00-2

Signal: 1

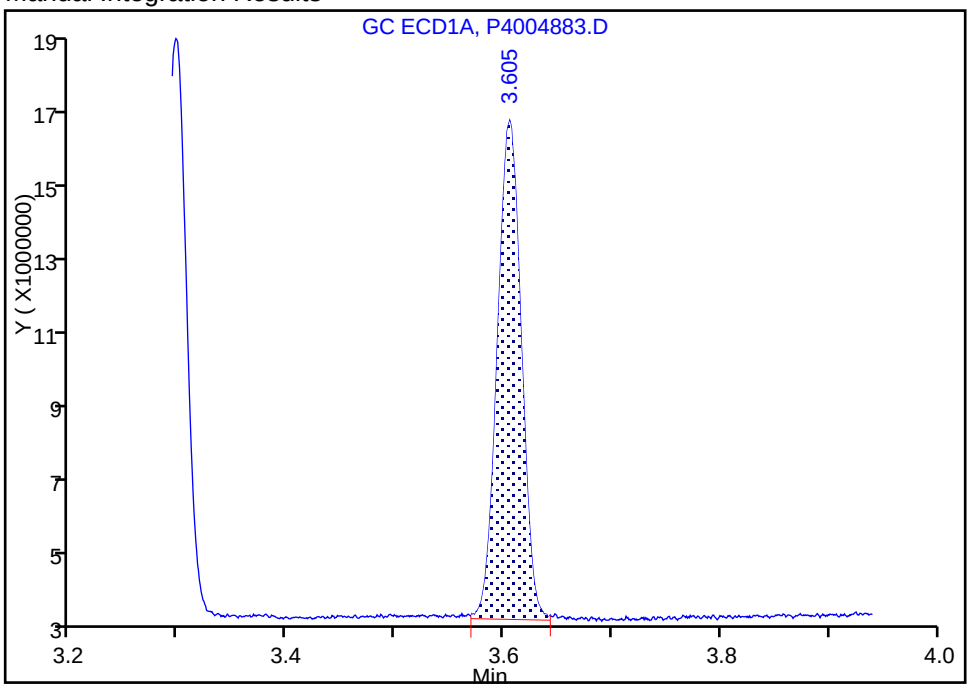
Processing Integration Results

RT: 3.61
Area: 20453436
Amount: 51.580580
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 20146283
Amount: 51.995445
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 11:13:48
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

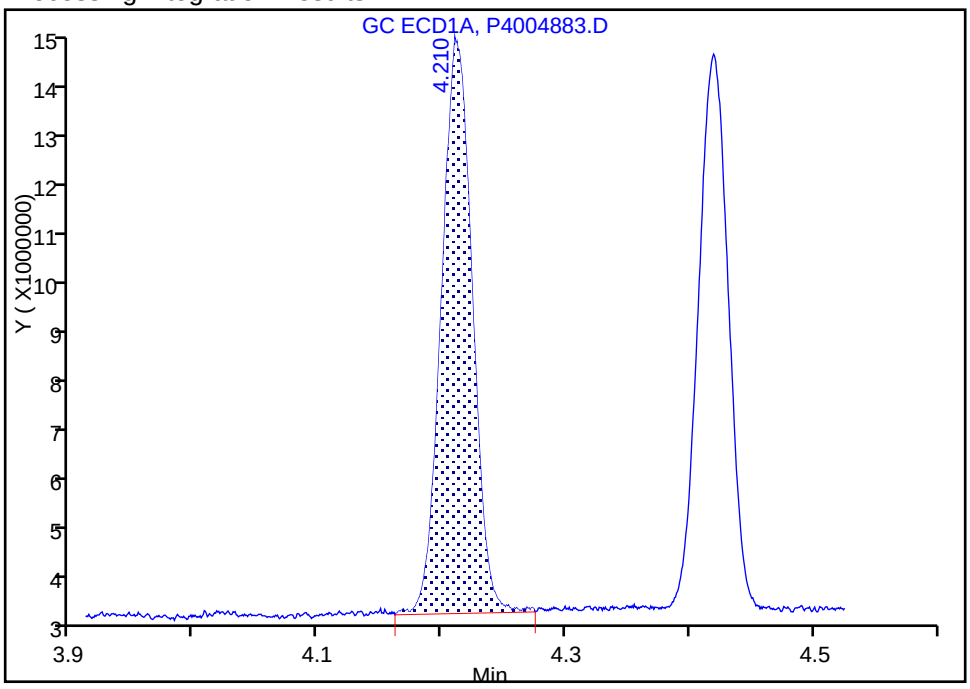
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

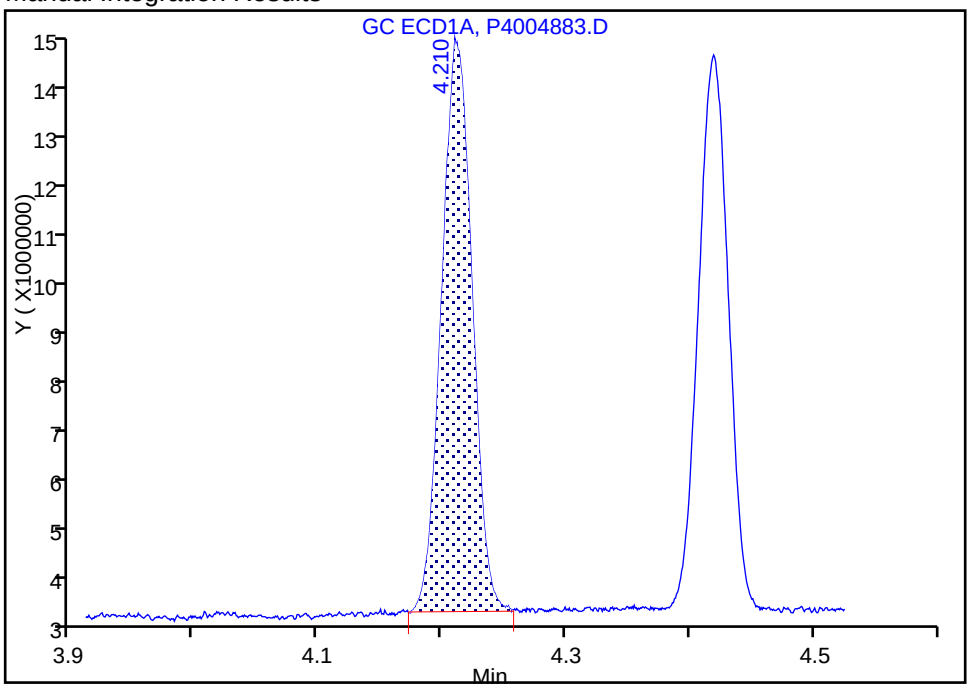
Processing Integration Results

RT: 4.21
Area: 19304351
Amount: 52.586019
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 18929078
Amount: 53.674832
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:03:45

Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

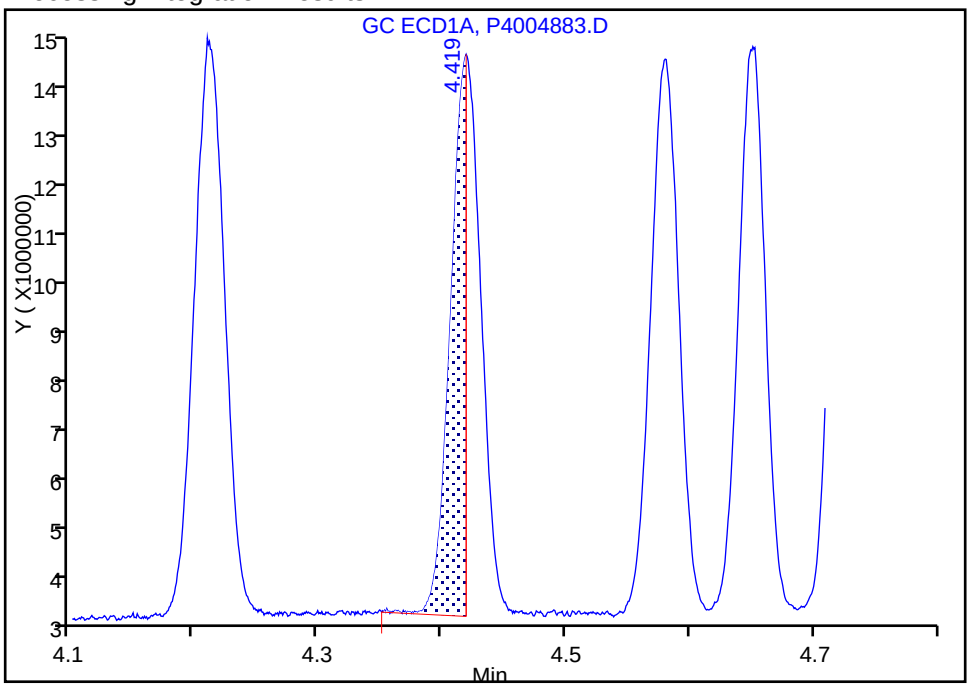
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

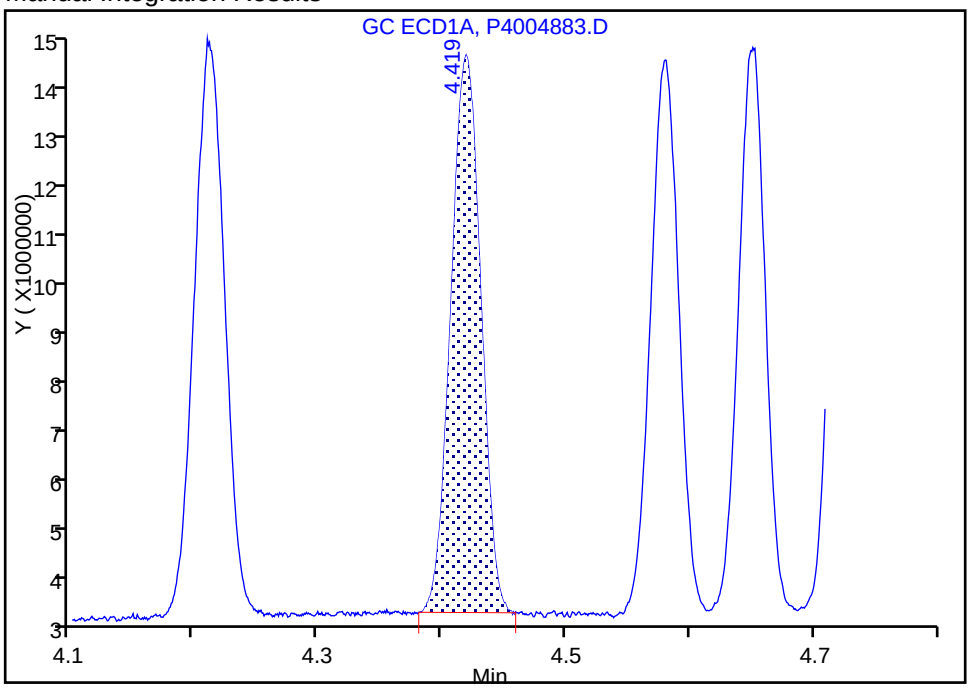
Processing Integration Results

RT: 4.42
Area: 9249583
Amount: 28.718647
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 17992167
Amount: 50.992932
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:05:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

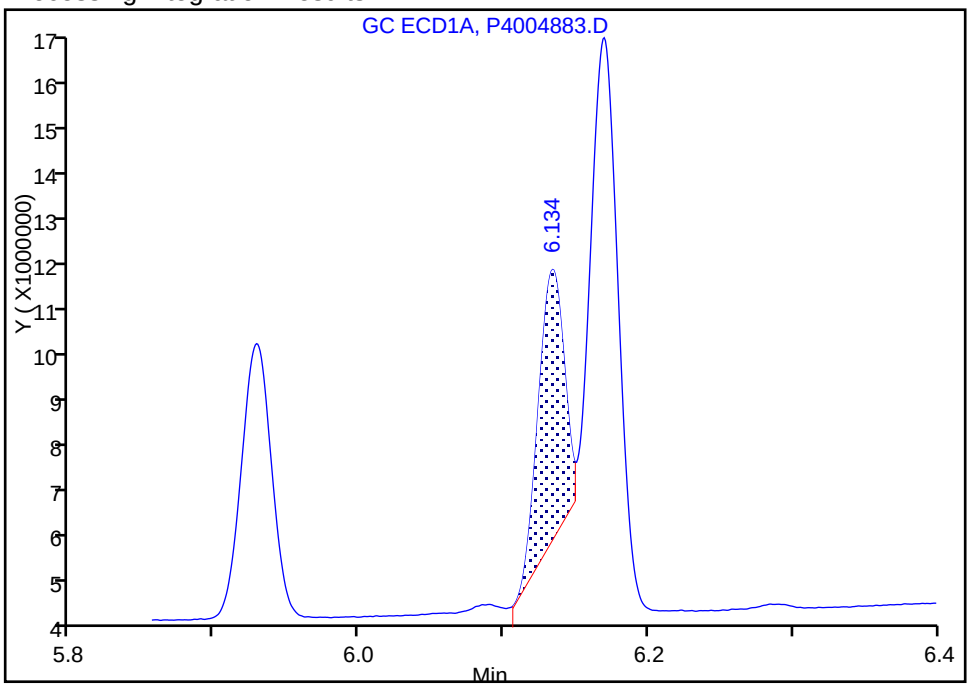
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Injection Date: 27-Sep-2017 08:34:19 Instrument ID: CPESTGC4
Lims ID: STD PESTL2
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

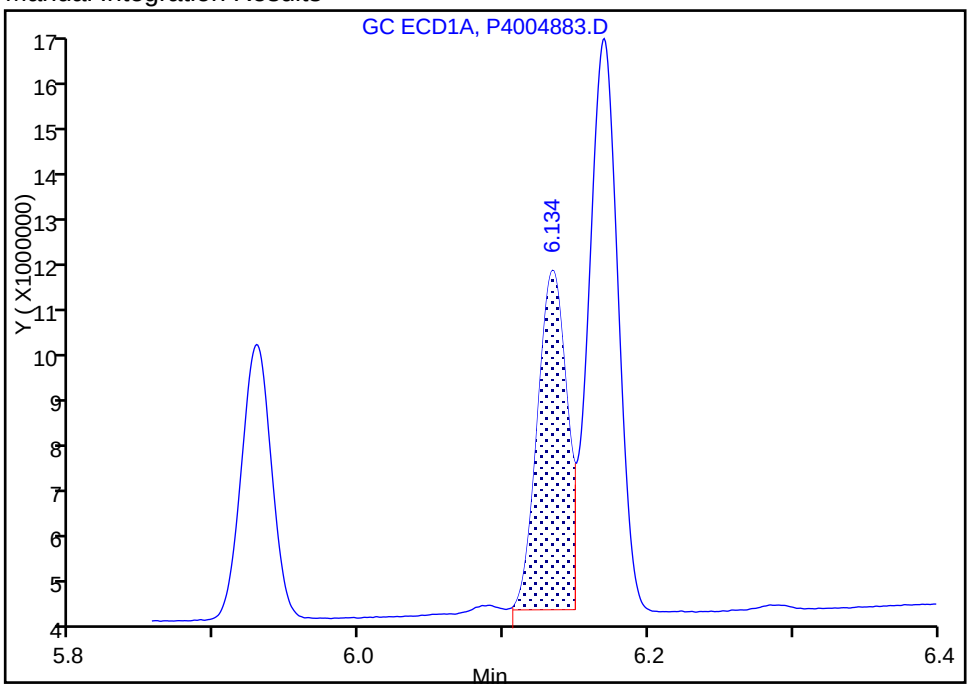
Processing Integration Results

RT: 6.13
Area: 7025039
Amount: 40.131467
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 9955340
Amount: 48.318922
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:59:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

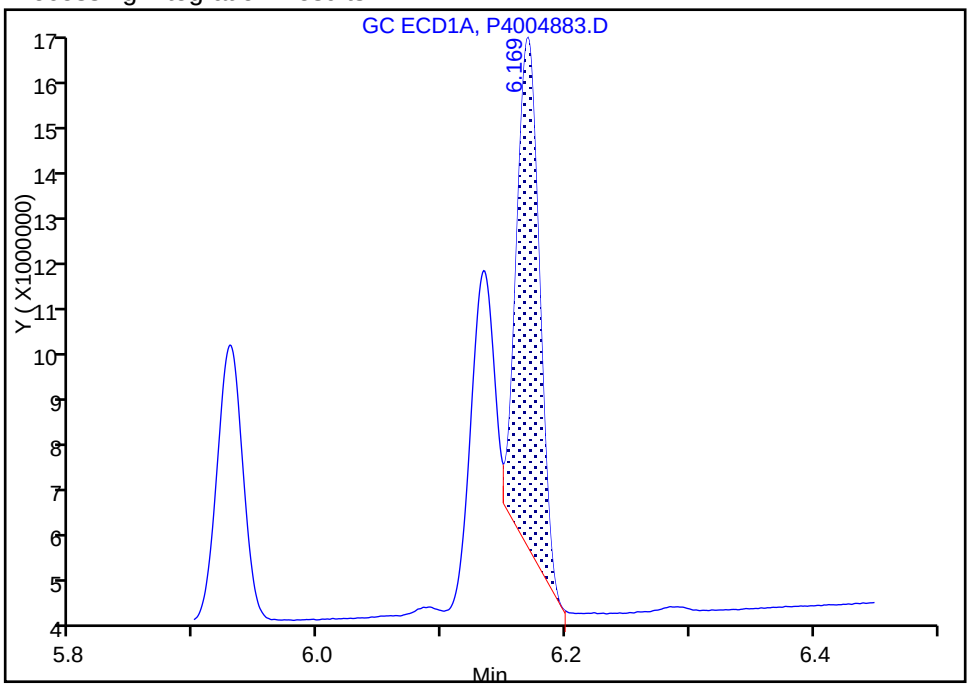
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

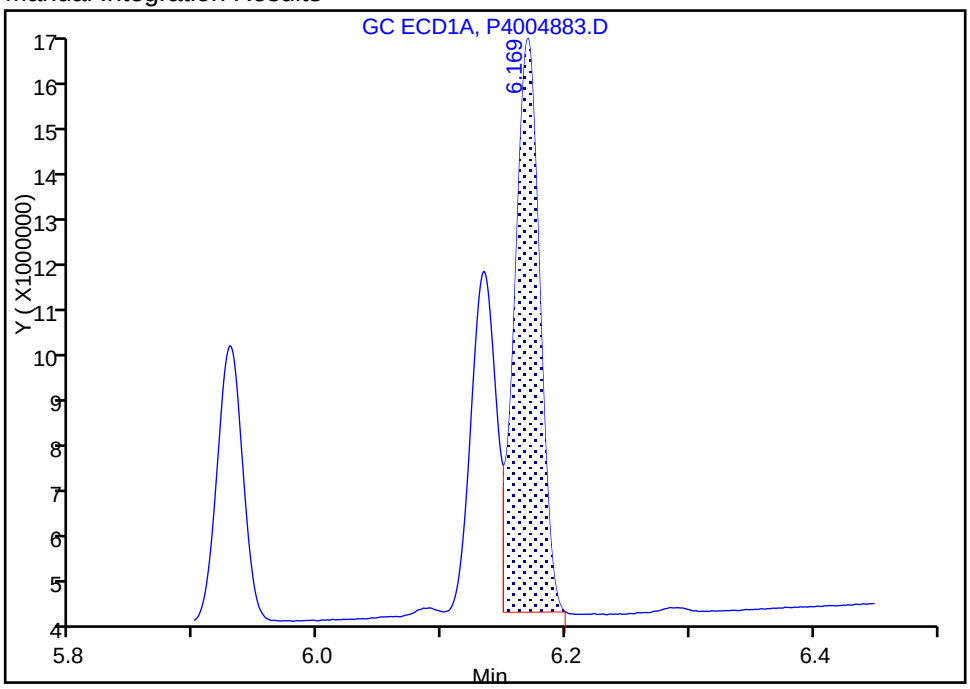
Processing Integration Results

RT: 6.17
Area: 13413711
Amount: 45.322181
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 16702227
Amount: 50.910539
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:59:20

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 08:46:34 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-005
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:19 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:14:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31440597	100.0	100.0	
2	1.514	1.514	0.000	41941013	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	31435133	100.0	100.2	
2	1.887	1.887	0.000	40999889	100.0	103.3	
						RPD = 3.01	
15 alpha-BHC							
1	2.654	2.654	0.000	44917872	100.0	99.2	
2	2.210	2.210	0.000	58964160	100.0	102.0	
						RPD = 2.79	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	42238244	100.0	100.5	
2	2.402	2.402	0.000	53365655	100.0	101.1	
						RPD = 0.63	
6 beta-BHC							
1	2.970	2.970	0.000	18689999	100.0	101.8	
2	2.449	2.449	0.000	22684079	100.0	99.2	
						RPD = 2.62	
32 delta-BHC							
1	3.220	3.220	0.000	42830724	100.0	99.9	
2	2.565	2.565	0.000	53466596	100.0	101.4	
						RPD = 1.54	
18 Heptachlor							
1	3.297	3.297	0.000	41381412	100.0	99.3	
2	2.700	2.700	0.000	52065379	100.0	100.5	
						RPD = 1.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	38526393	100.0	98.0	
2	2.907	2.907	0.000	47263361	100.0	98.6	
						RPD = 0.58	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	37669401	100.0	105.3	
2	3.362	3.362	0.000	45313024	100.0	100.2	
						RPD = 4.92	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	36499048	100.0	102.0	M
2	3.464	3.464	0.000	45042212	100.0	100.3	
						RPD = 1.70	
23 alpha-Chlordane							
1	4.580	4.580	0.000	34366860	100.0	101.5	
2	3.580	3.580	0.000	43513175	100.0	99.6	
						RPD = 1.91	
7 Endosulfan I							
1	4.651	4.651	0.000	33506968	100.0	102.2	
2	3.712	3.712	0.000	42806026	100.0	100.4	
						RPD = 1.75	
25 4,4'-DDE							
1	4.723	4.723	0.000	35199730	100.0	104.2	
2	3.634	3.634	0.000	43691386	100.0	100.8	
						RPD = 3.31	
30 Dieldrin							
1	4.887	4.887	0.000	36985897	100.0	103.1	
2	3.946	3.946	0.000	48478494	100.0	102.9	
						RPD = 0.15	
20 Endrin							
1	5.112	5.112	0.000	32977577	100.0	103.9	
2	4.200	4.200	0.000	44412680	100.0	102.0	
						RPD = 1.89	
16 4,4'-DDD							M
1	5.166	5.166	0.000	29934272	100.0	105.8	M
2	4.256	4.256	0.000	39034234	100.0	103.2	
						RPD = 2.50	
11 Endosulfan II							M
1	5.254	5.254	0.000	32512750	100.0	106.3	M
2	4.439	4.439	0.000	42274152	100.0	102.8	
						RPD = 3.38	
21 4,4'-DDT							M
1	5.381	5.381	0.000	31987959	100.0	107.0	M
2	4.557	4.557	0.000	40739512	100.0	103.9	
						RPD = 2.96	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	28247674	100.0	109.8	M
2	4.835	4.835	0.000	36095786	100.0	105.2	M
						RPD = 4.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.692	5.692	0.000	30913060	100.0	104.6	M
2	5.143	5.143	0.000	42870824	100.0	102.1	M
						RPD = 2.42	
10 Methoxychlor							M
1	5.928	5.928	0.000	17015761	100.0	104.3	
2	4.969	4.969	0.000	22746030	100.0	103.5	M
						RPD = 0.74	
34 Mirex							M
1	6.133	6.133	0.000	20783921	100.0	99.4	
2	5.065	5.065	0.000	29991407	100.0	99.5	M
						RPD = 0.08	
13 Endrin ketone							M
1	6.169	6.169	0.000	33900608	100.0	101.9	
2	5.323	5.323	0.000	48279033	100.0	101.7	M
						RPD = 0.16	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	23785382	100.0	102.5	
2	6.117	6.117	0.000	38977750	100.0	102.6	
						RPD = 0.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

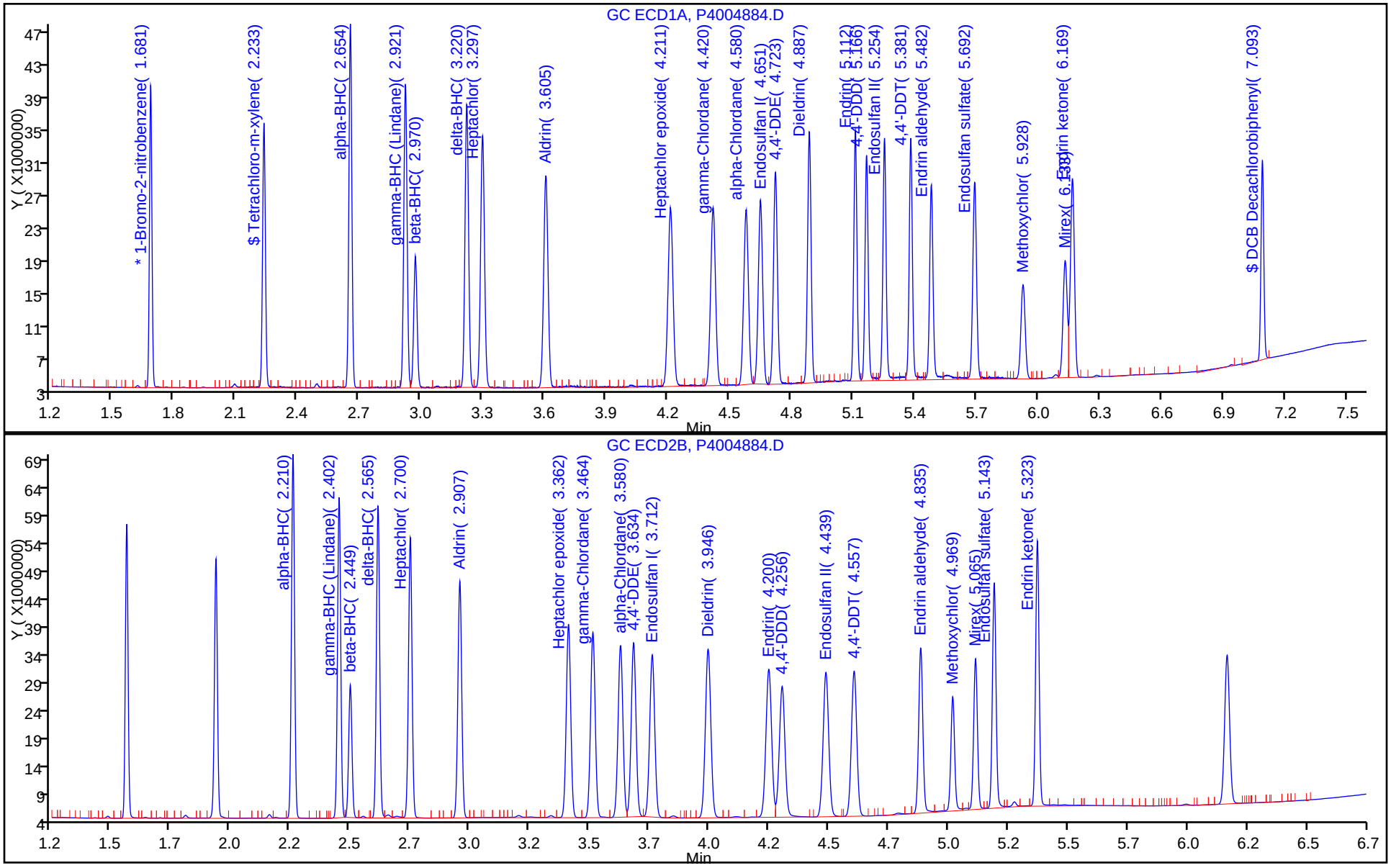
SGPESTL3_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D

Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

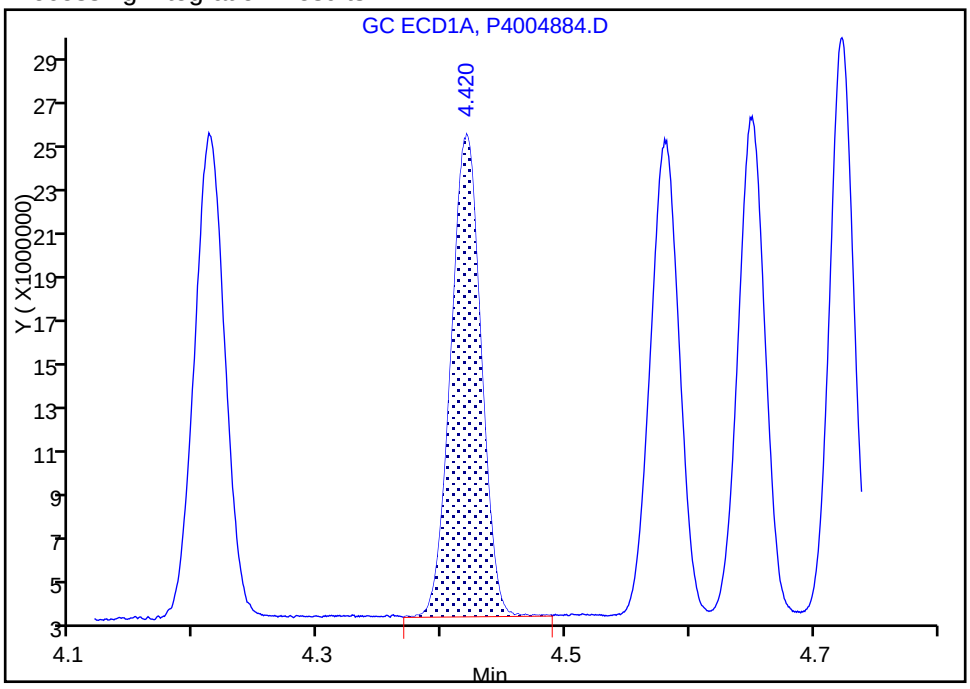
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

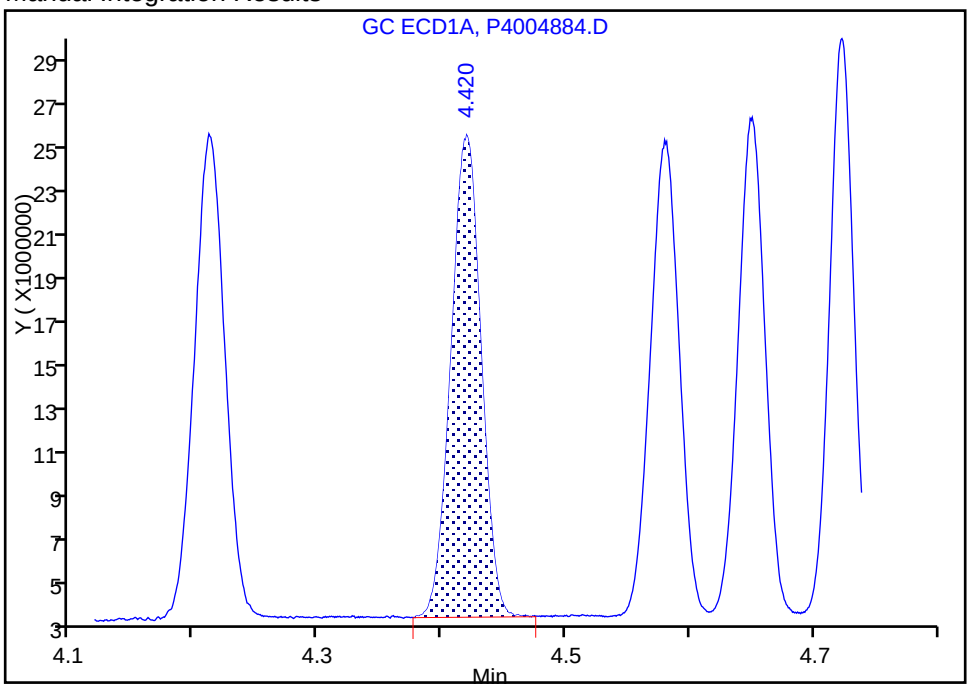
Processing Integration Results

RT: 4.42
Area: 36674875
Amount: 101.0059
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 36499048
Amount: 101.9800
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:00:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

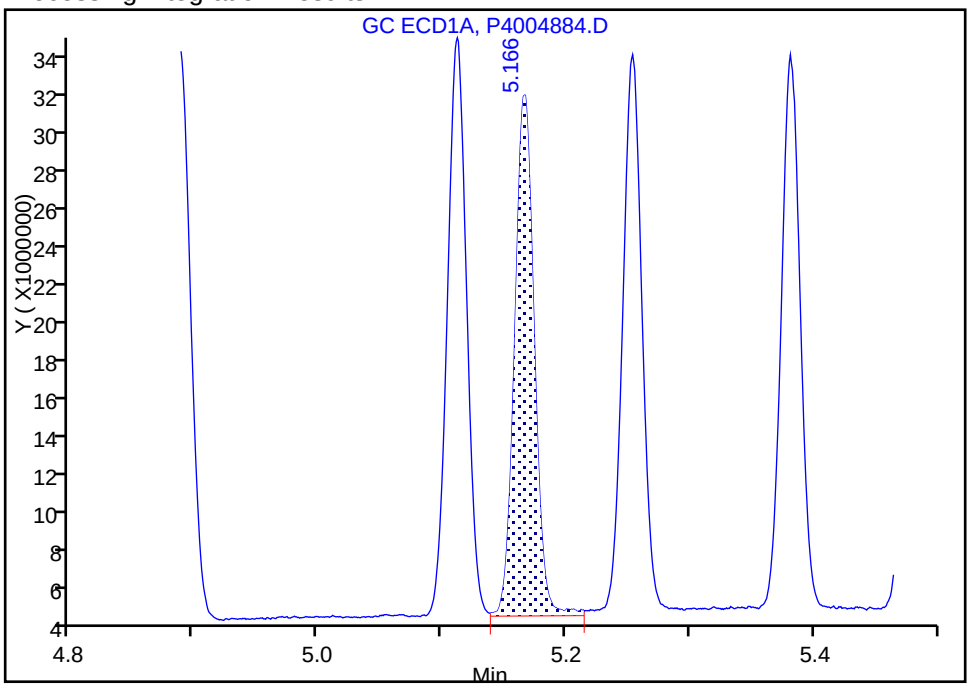
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

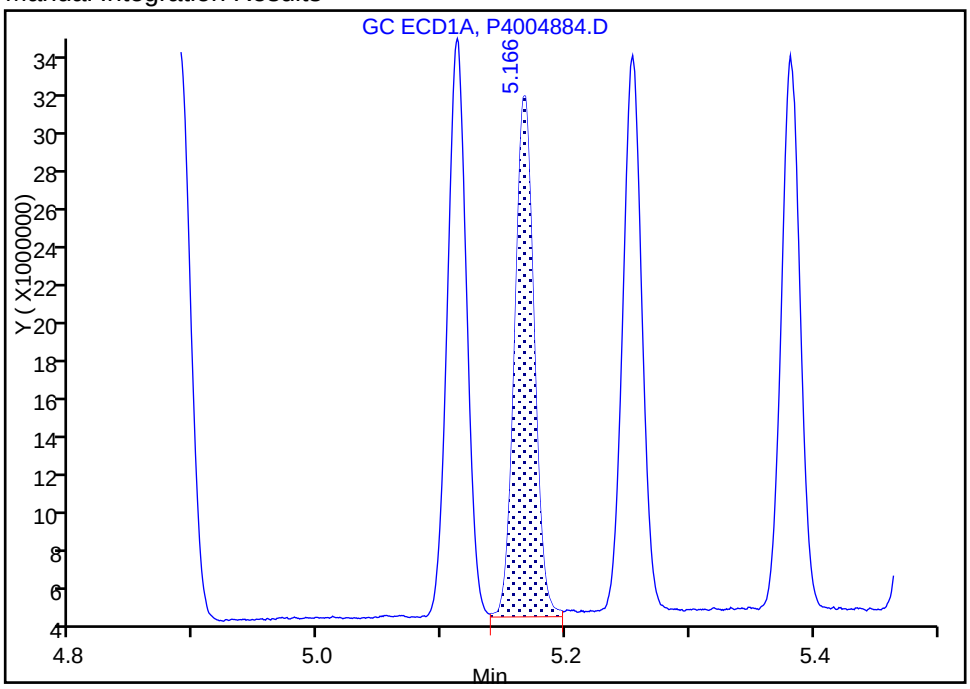
Processing Integration Results

RT: 5.17
Area: 30242331
Amount: 106.6972
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 29934272
Amount: 105.8404
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:38

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

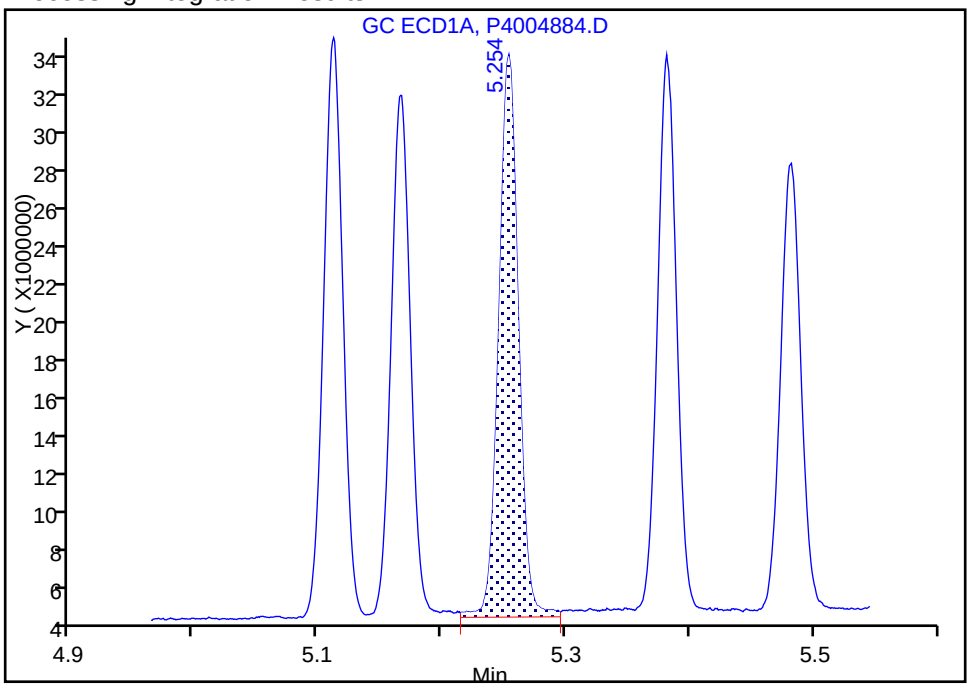
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

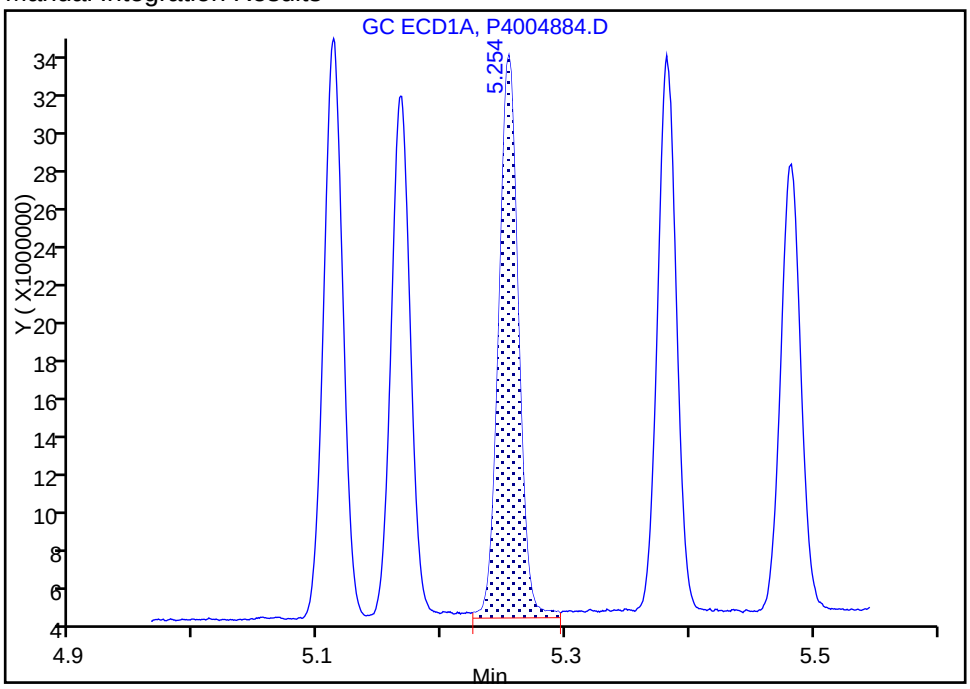
Processing Integration Results

RT: 5.25
Area: 32677620
Amount: 106.7149
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 32512750
Amount: 106.2910
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:37

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

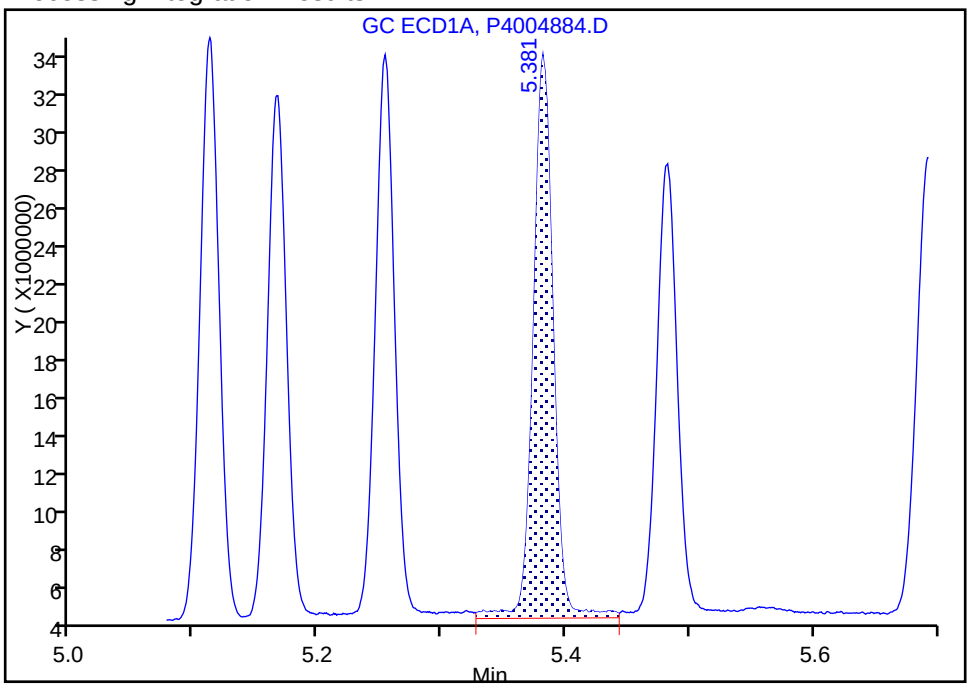
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

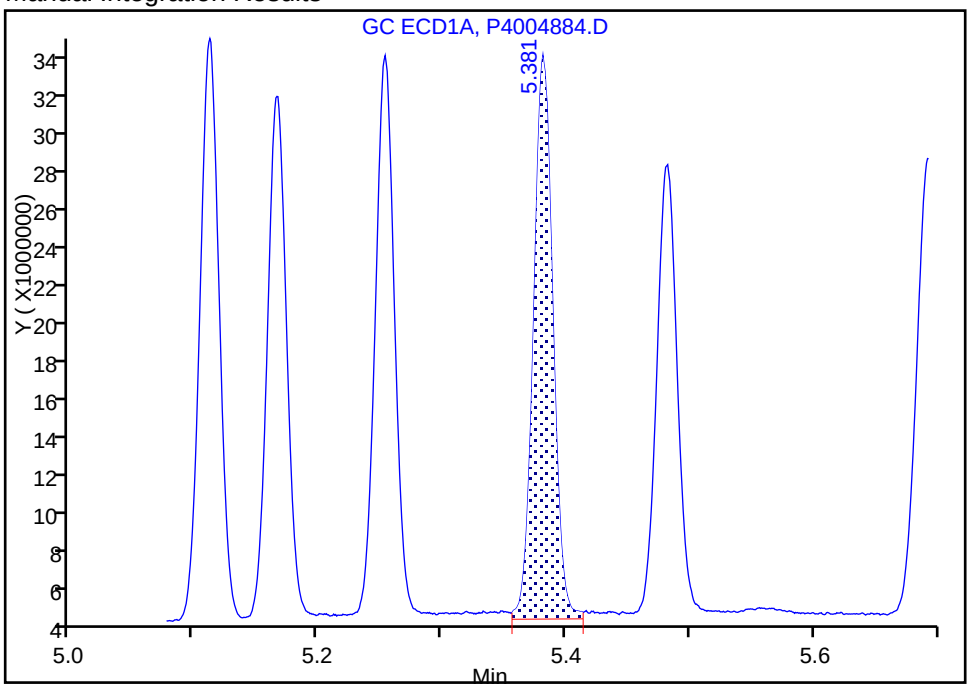
Processing Integration Results

RT: 5.38
Area: 33204597
Amount: 110.1784
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 31987959
Amount: 107.0054
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:33
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

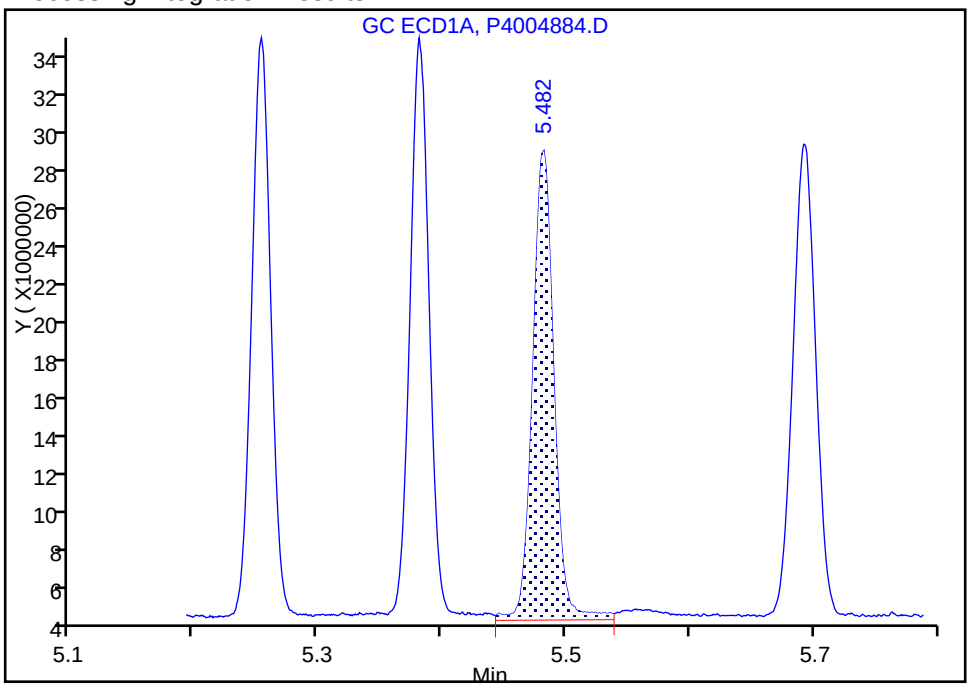
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

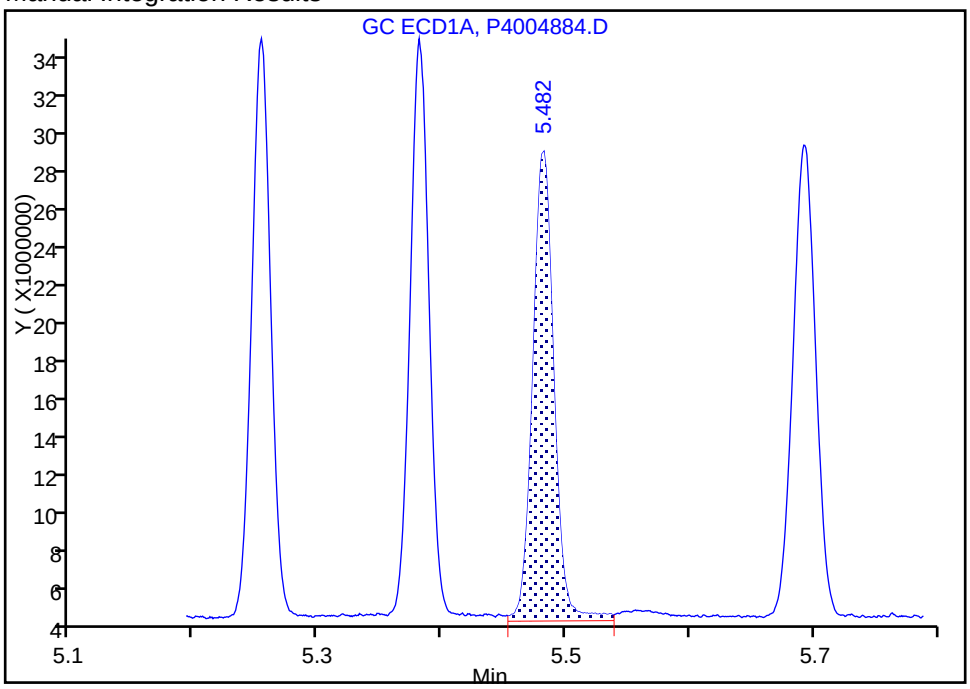
Processing Integration Results

RT: 5.48
Area: 28424606
Amount: 110.2977
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 28247674
Amount: 109.7618
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:31

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

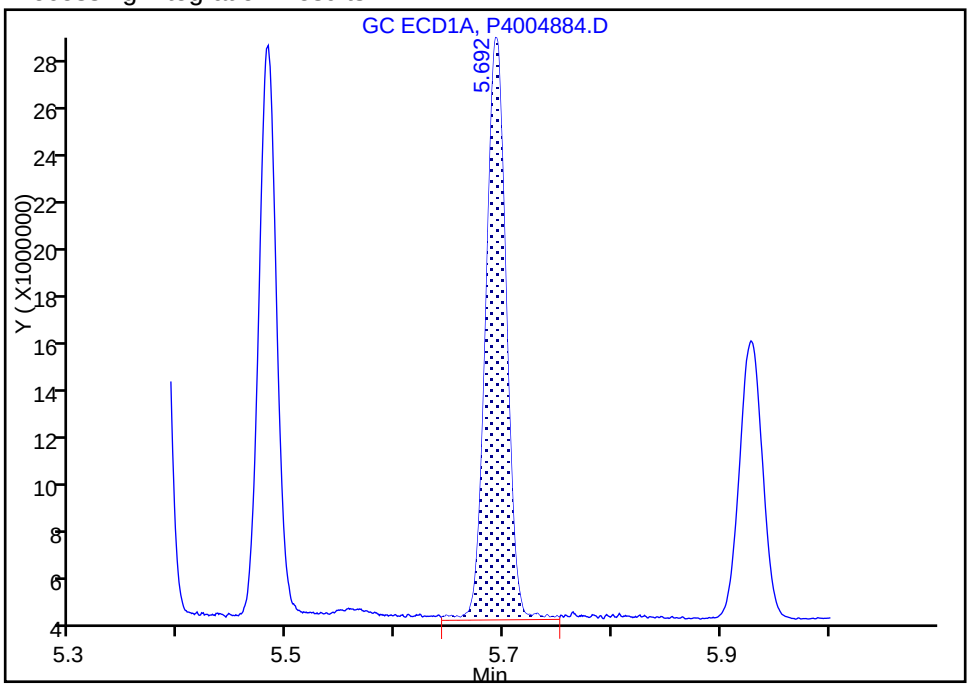
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

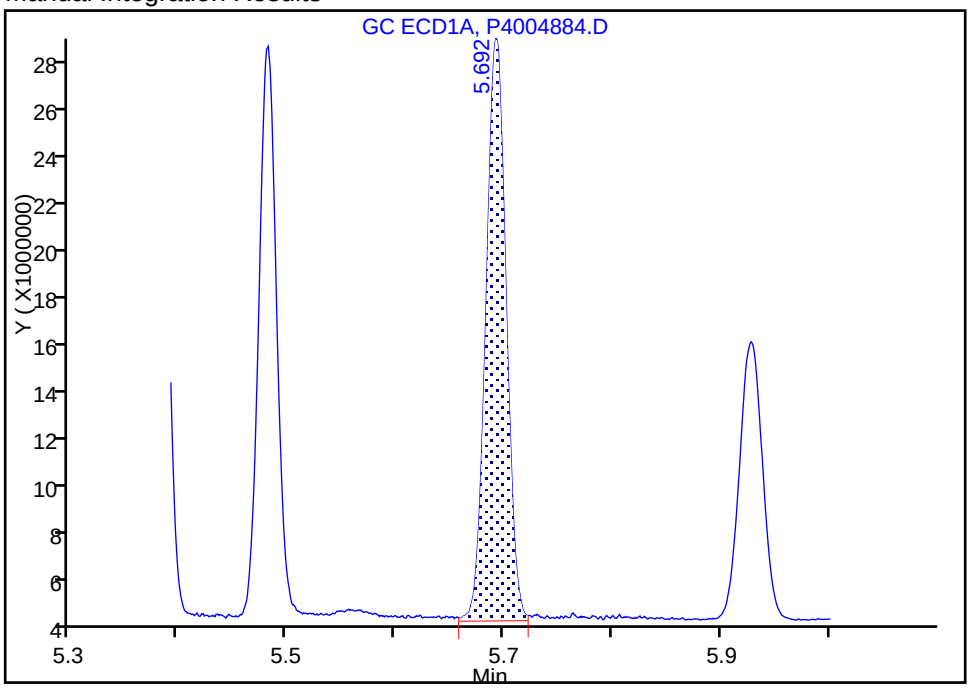
Processing Integration Results

RT: 5.69
Area: 31335378
Amount: 105.7741
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 30913060
Amount: 104.6469
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:35

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 08:58:46 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-006
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:24 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28287969	100.0	100.0	
2	1.513	1.514	-0.001	38420227	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	43436997	150.0	153.9	
2	1.886	1.887	-0.001	58125825	150.0	159.8	
						RPD = 3.78	
15 alpha-BHC							
1	2.653	2.654	-0.001	95133296	250.0	233.5	
2	2.209	2.210	-0.001	130672962	250.0	246.8	
						RPD = 5.52	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	88938478	250.0	235.1	
2	2.402	2.402	0.000	118246794	250.0	244.6	
						RPD = 3.93	
6 beta-BHC							
1	2.970	2.970	0.000	37933647	250.0	229.7	
2	2.449	2.449	0.000	49510009	250.0	236.3	
						RPD = 2.85	
32 delta-BHC							
1	3.220	3.220	0.000	89965643	250.0	233.2	
2	2.565	2.565	0.000	118490453	250.0	245.4	
						RPD = 5.10	
18 Heptachlor							
1	3.296	3.297	-0.001	86364255	250.0	230.3	
2	2.700	2.700	0.000	112872805	250.0	237.9	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	79920244	250.0	226.0	
2	2.907	2.907	0.000	102831108	250.0	234.2	
						RPD = 3.54	
12 Heptachlor epoxide							M
1	4.212	4.211	0.001	75424009	250.0	234.3	M
2	3.361	3.362	-0.001	96736728	250.0	233.6	
						RPD = 0.31	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	73419330	250.0	228.0	M
2	3.464	3.464	0.000	96648764	250.0	234.8	
						RPD = 2.96	
23 alpha-Chlordane							M
1	4.581	4.580	0.001	69503361	250.0	228.2	M
2	3.580	3.580	0.000	92611458	250.0	231.5	
						RPD = 1.40	
7 Endosulfan I							M
1	4.651	4.651	0.000	67737216	250.0	229.6	M
2	3.712	3.712	0.000	90713790	250.0	232.3	
						RPD = 1.17	
25 4,4'-DDE							M
1	4.723	4.723	0.000	71287260	250.0	234.5	M
2	3.635	3.634	0.001	94576527	250.0	238.1	
						RPD = 1.55	
30 Dieldrin							M
1	4.888	4.887	0.001	75827707	250.0	234.9	M
2	3.946	3.946	0.000	102621982	250.0	237.9	
						RPD = 1.25	
20 Endrin							M
1	5.112	5.112	0.000	67577298	250.0	236.6	M
2	4.201	4.200	0.001	93769443	250.0	235.0	
						RPD = 0.70	
16 4,4'-DDD							M
1	5.166	5.166	0.000	60672774	250.0	238.4	M
2	4.256	4.256	0.000	82580735	250.0	238.4	
						RPD = 0.01	
11 Endosulfan II							M
1	5.254	5.254	0.000	65092408	250.0	236.5	M
2	4.440	4.439	0.001	88264400	250.0	234.2	
						RPD = 0.98	
21 4,4'-DDT							M
1	5.382	5.381	0.001	64186095	250.0	238.6	M
2	4.557	4.557	0.000	86571844	250.0	241.0	
						RPD = 0.98	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	54582165	250.0	235.7	M
2	4.836	4.835	0.001	75170596	250.0	239.1	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.693	5.692	0.001	62190154	250.0	234.0	M
2	5.143	5.143	0.000	90883527	250.0	236.4	
						RPD = 1.02	
10 Methoxychlor							
1	5.928	5.928	0.000	34556840	250.0	235.4	
2	4.970	4.969	0.001	47082647	250.0	233.9	
						RPD = 0.63	
34 Mirex							M
1	6.134	6.133	0.001	46437684	250.0	247.0	M
2	5.065	5.065	0.000	67254686	250.0	243.6	
						RPD = 1.35	
13 Endrin ketone							M
1	6.170	6.169	0.001	70677969	250.0	236.1	M
2	5.324	5.323	0.001	102539557	250.0	235.8	
						RPD = 0.11	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	33167313	150.0	158.8	
2	6.117	6.117	0.000	54260076	150.0	155.9	
						RPD = 1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

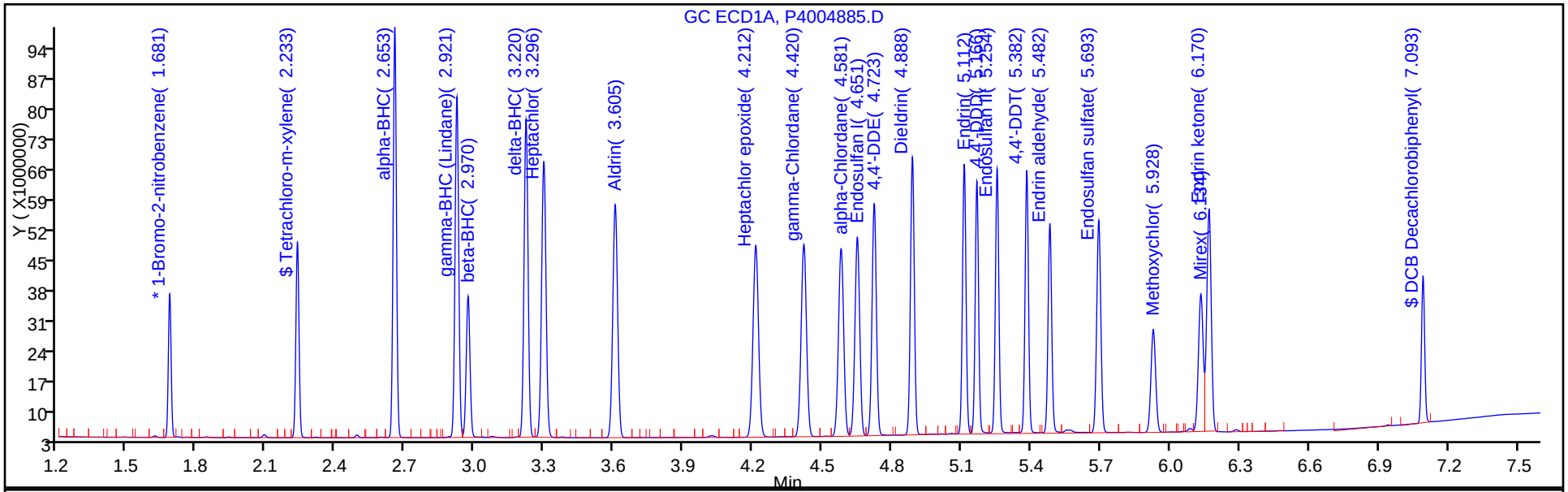
SGPESTL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

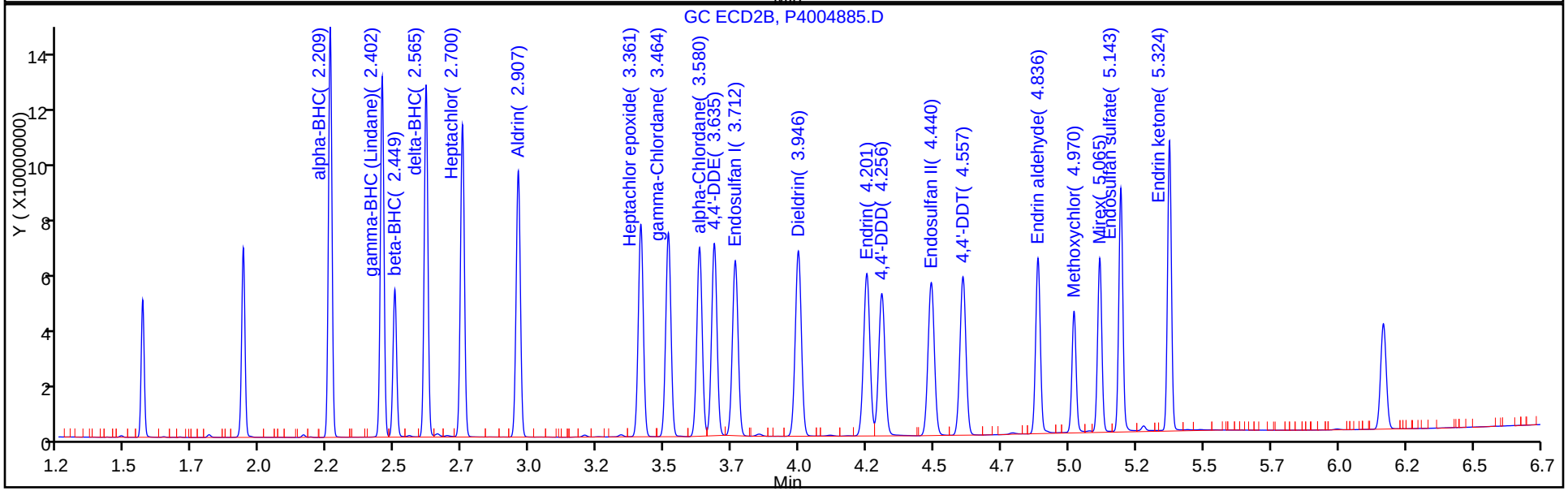
Report Date: 27-Sep-2017 13:43:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D

Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

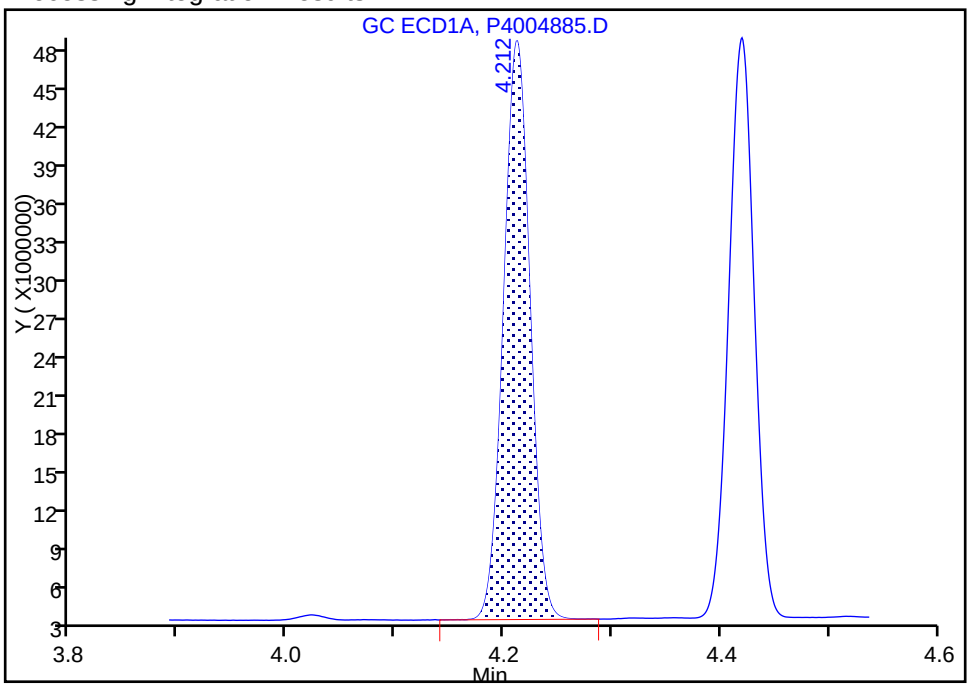
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

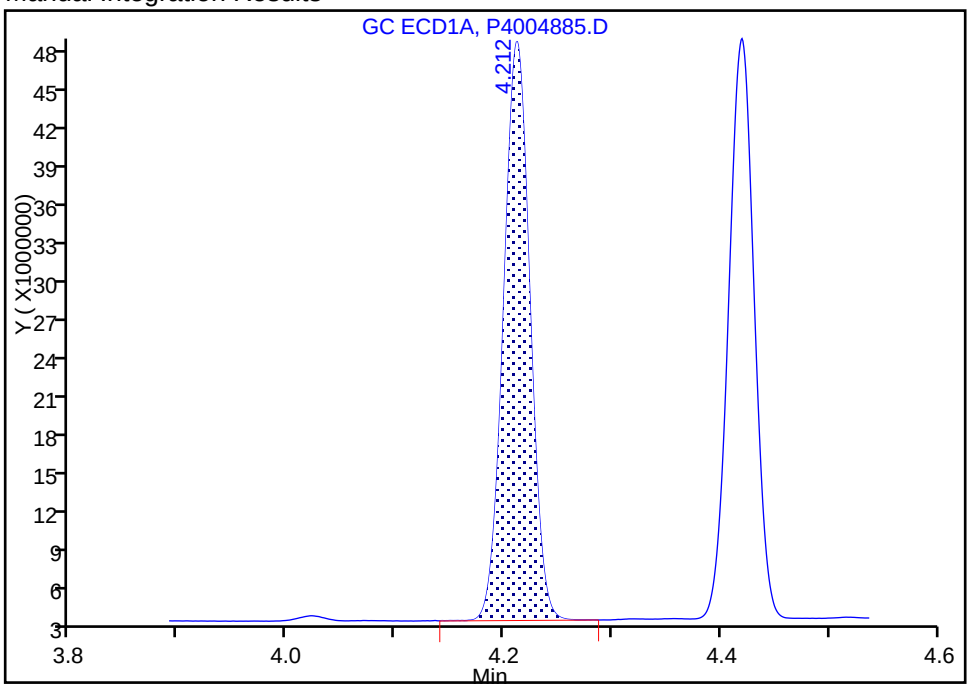
Processing Integration Results

RT: 4.21
Area: 75357230
Amount: 224.9600
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 75424009
Amount: 234.3403
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

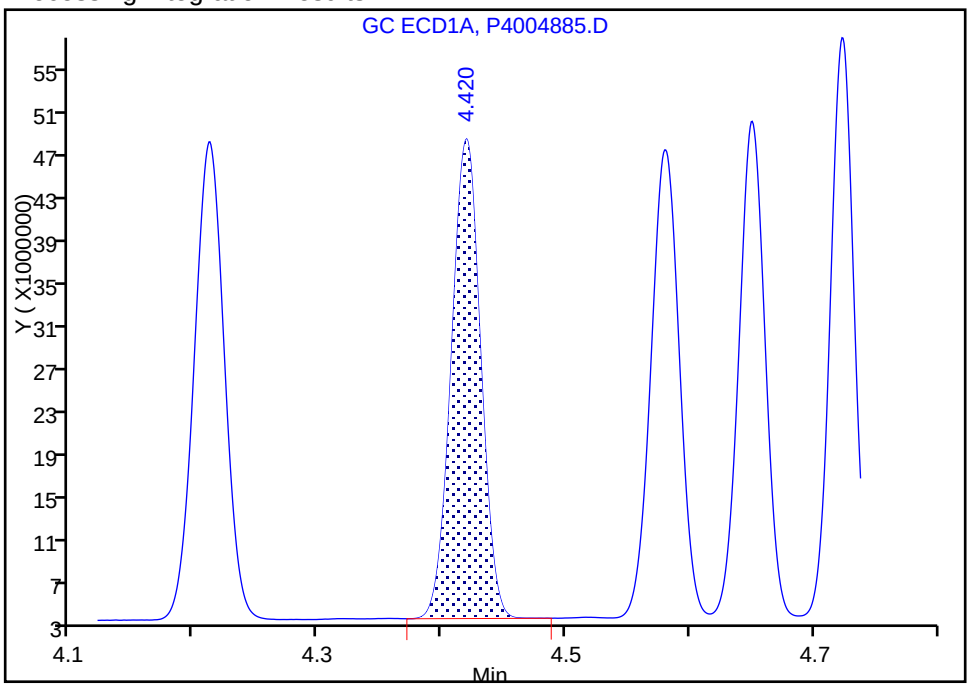
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

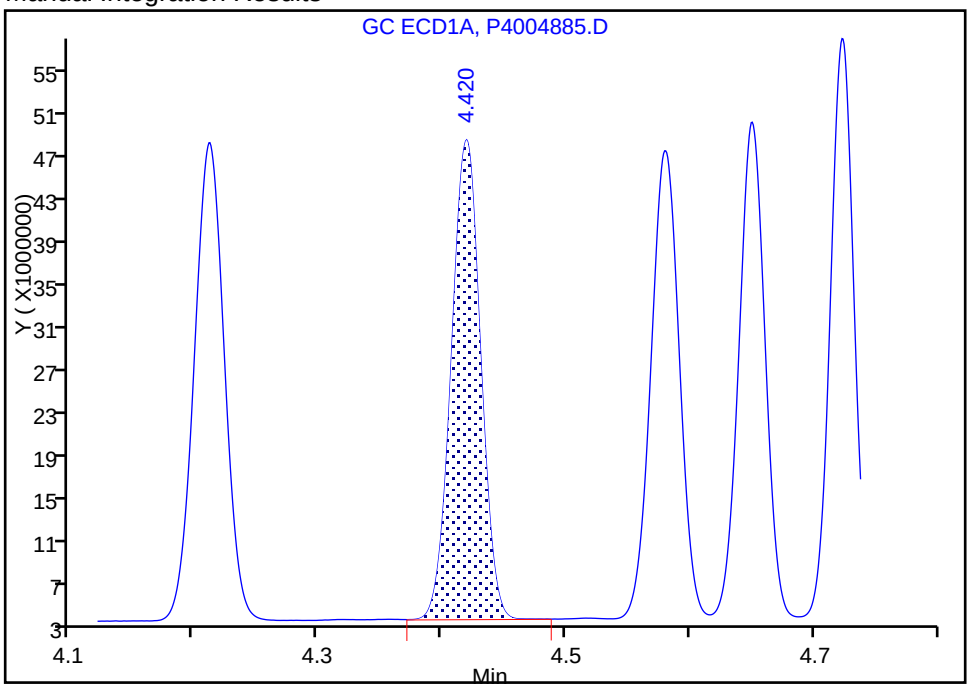
Processing Integration Results

RT: 4.42
Area: 73242416
Amount: 223.6962
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 73419330
Amount: 227.9990
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

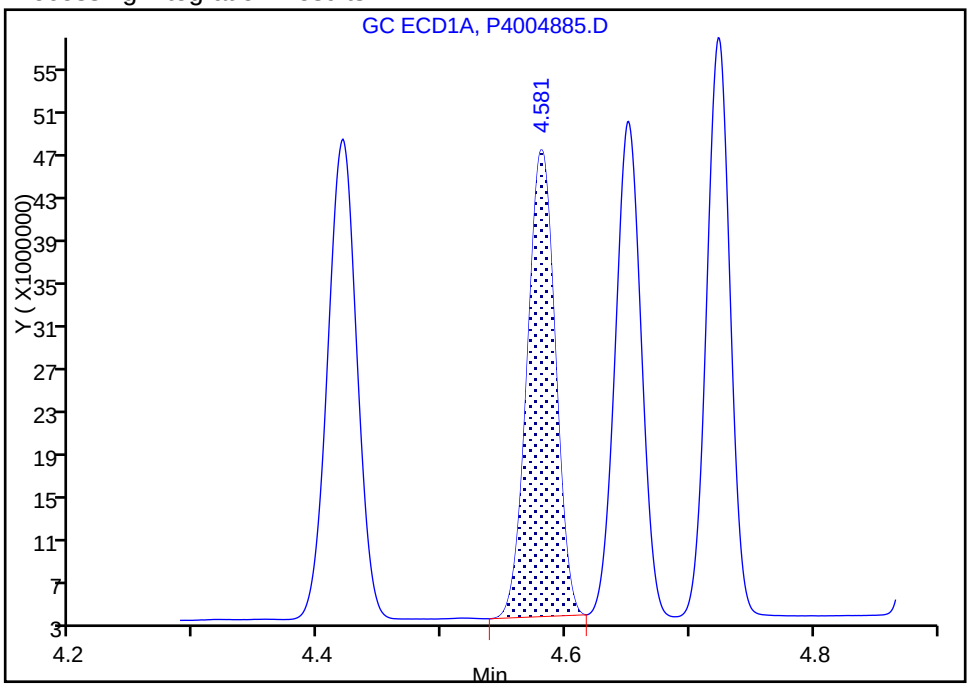
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

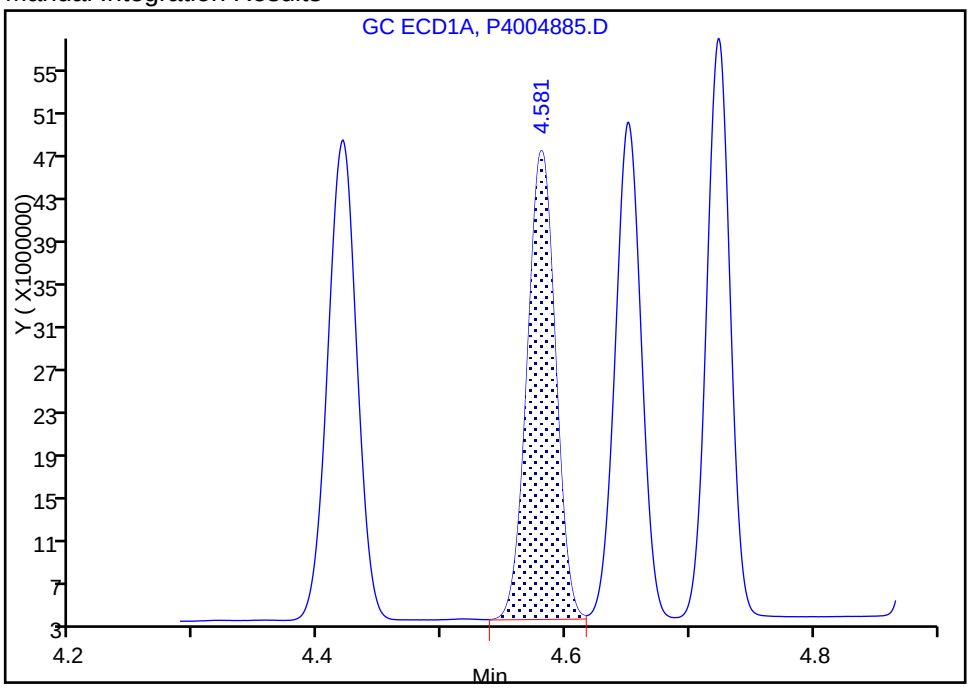
Processing Integration Results

RT: 4.58
Area: 68685500
Amount: 226.1894
Amount Units: ug/l



Manual Integration Results

RT: 4.58
Area: 69503361
Amount: 228.2422
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

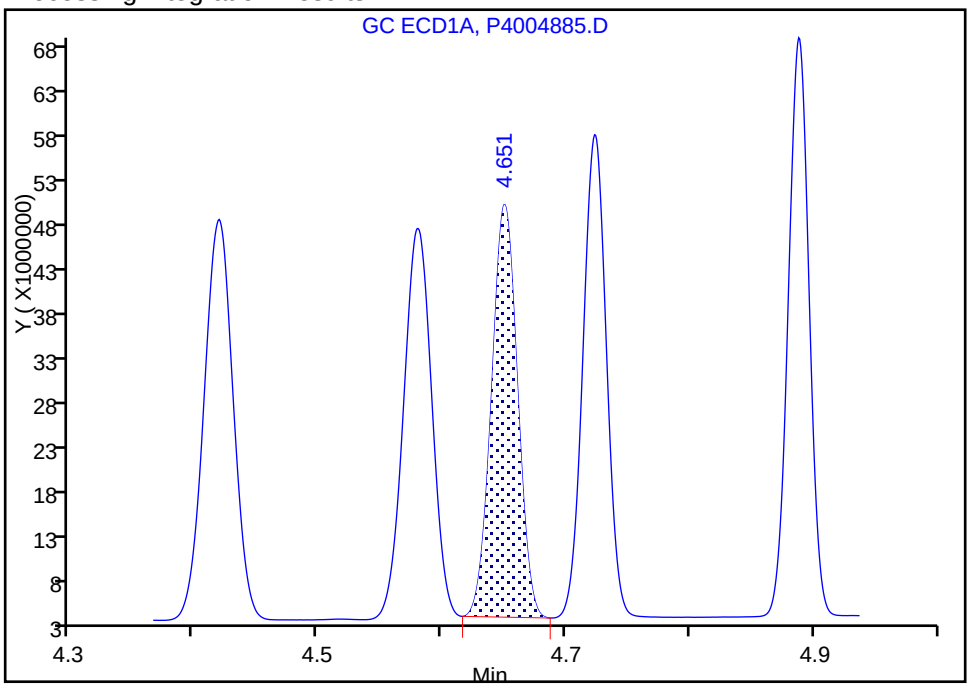
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

7 Endosulfan I, CAS: 959-98-8

Signal: 1

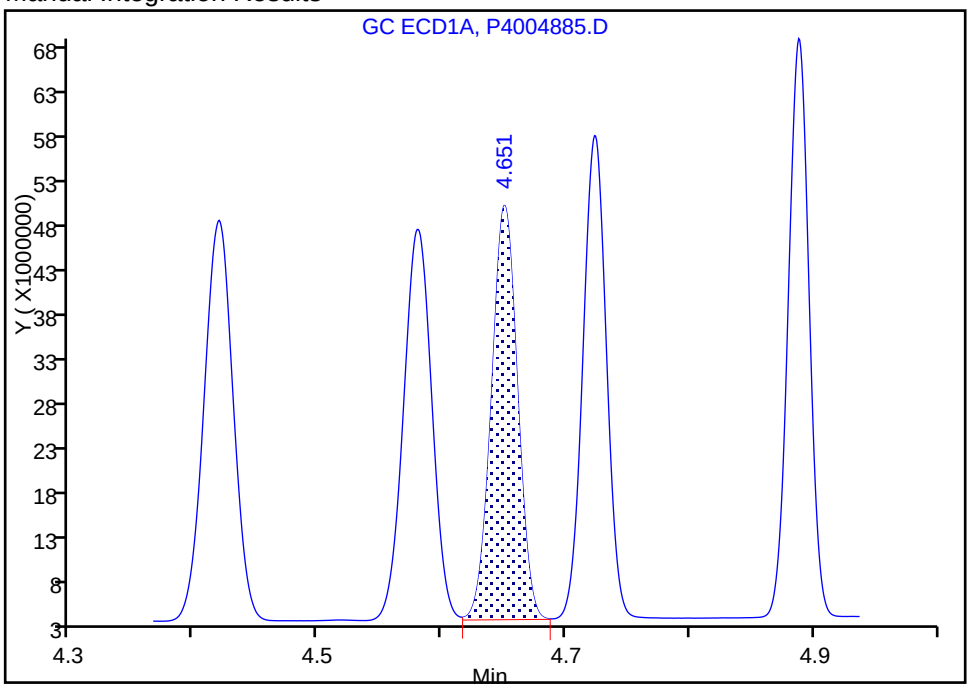
Processing Integration Results

RT: 4.65
Area: 66957649
Amount: 227.6250
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 67737216
Amount: 229.5891
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

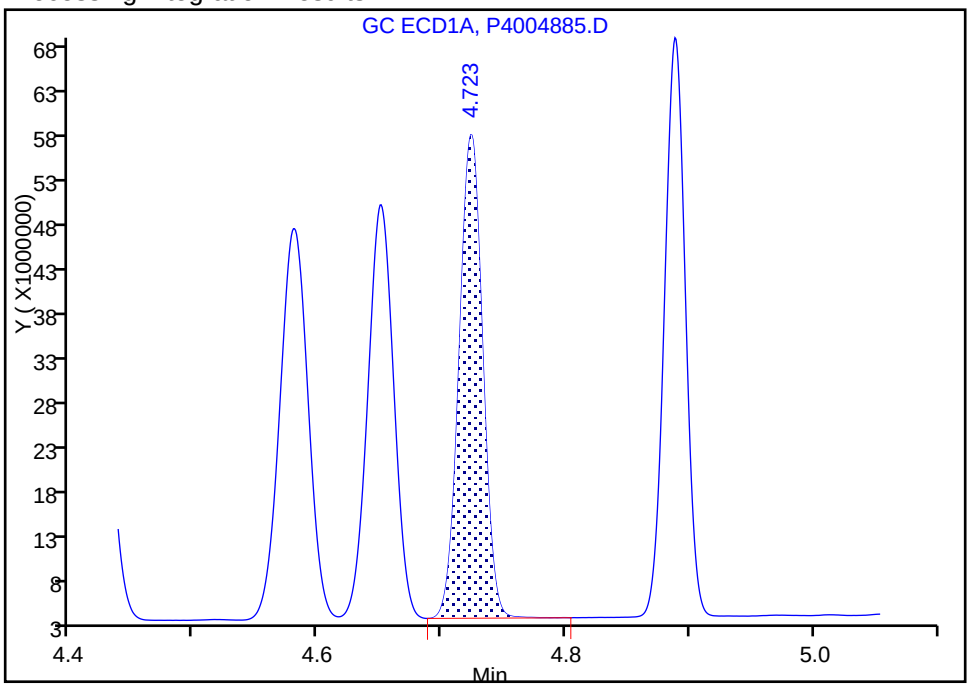
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D		
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL4		
Client ID:			
Operator ID:		ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

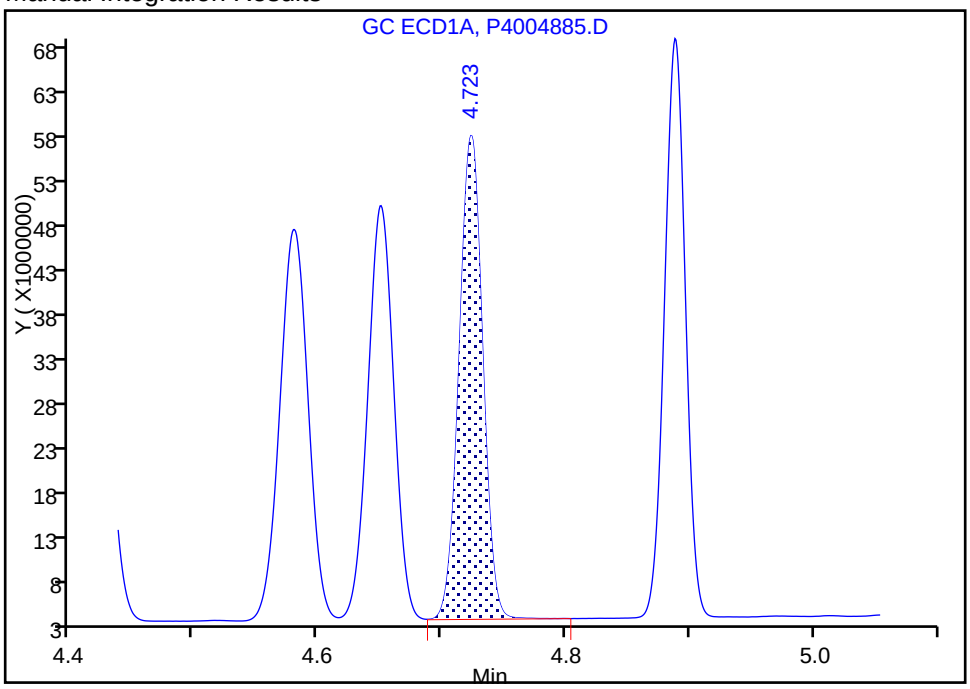
Processing Integration Results

RT: 4.72
Area: 71116849
Amount: 231.7376
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 71287260
Amount: 234.4879
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

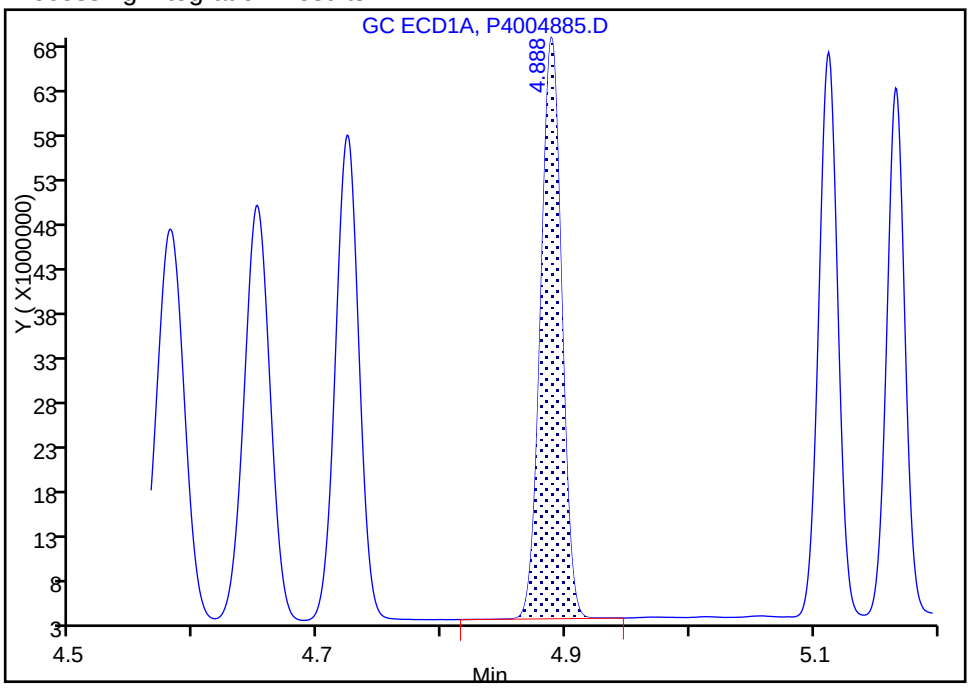
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

30 Dieldrin, CAS: 60-57-1

Signal: 1

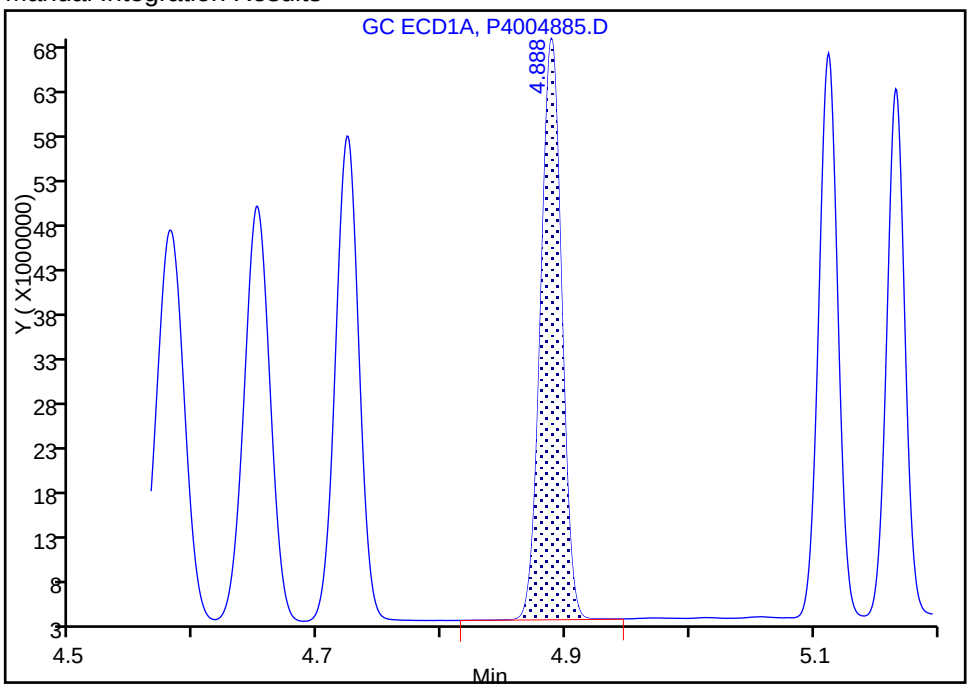
Processing Integration Results

RT: 4.89
Area: 75728578
Amount: 231.0726
Amount Units: ug/l



Manual Integration Results

RT: 4.89
Area: 75827707
Amount: 234.9335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:55:22

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

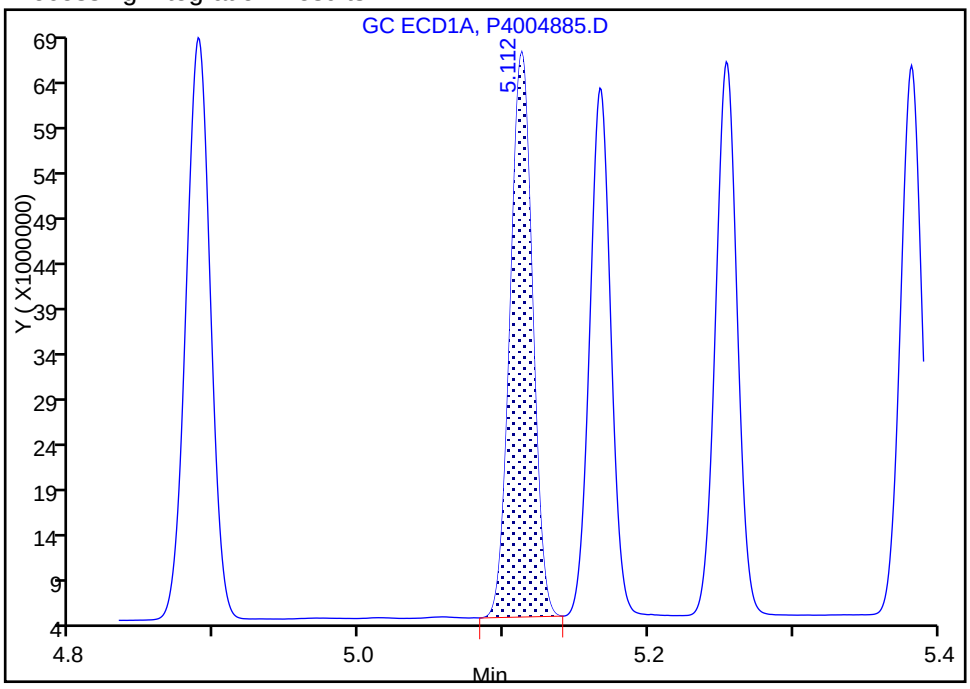
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

20 Endrin, CAS: 72-20-8

Signal: 1

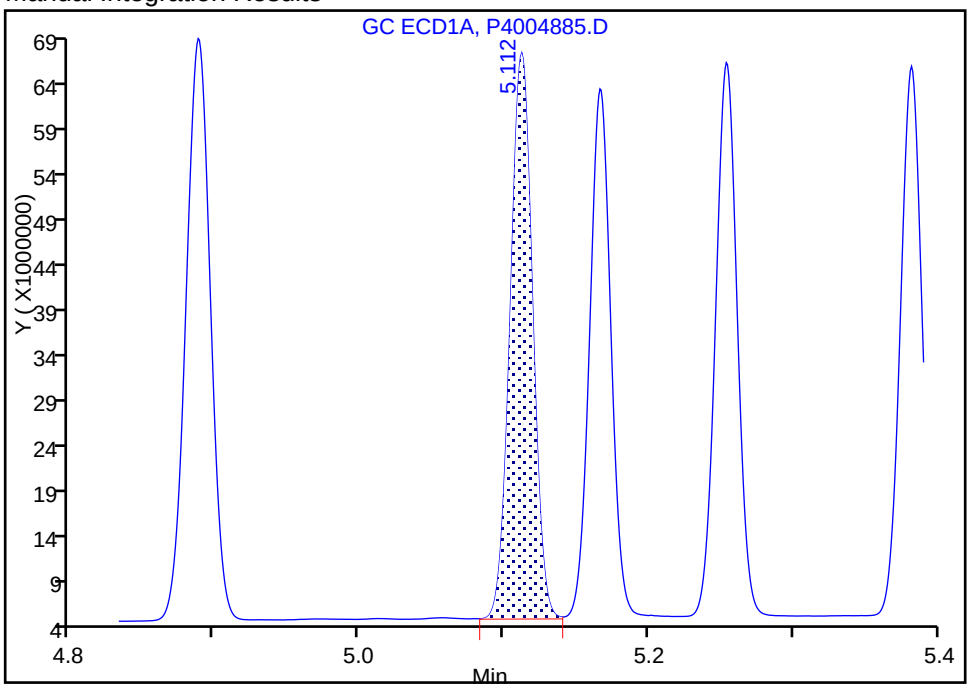
Processing Integration Results

RT: 5.11
Area: 67146450
Amount: 233.9652
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 67577298
Amount: 236.6458
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

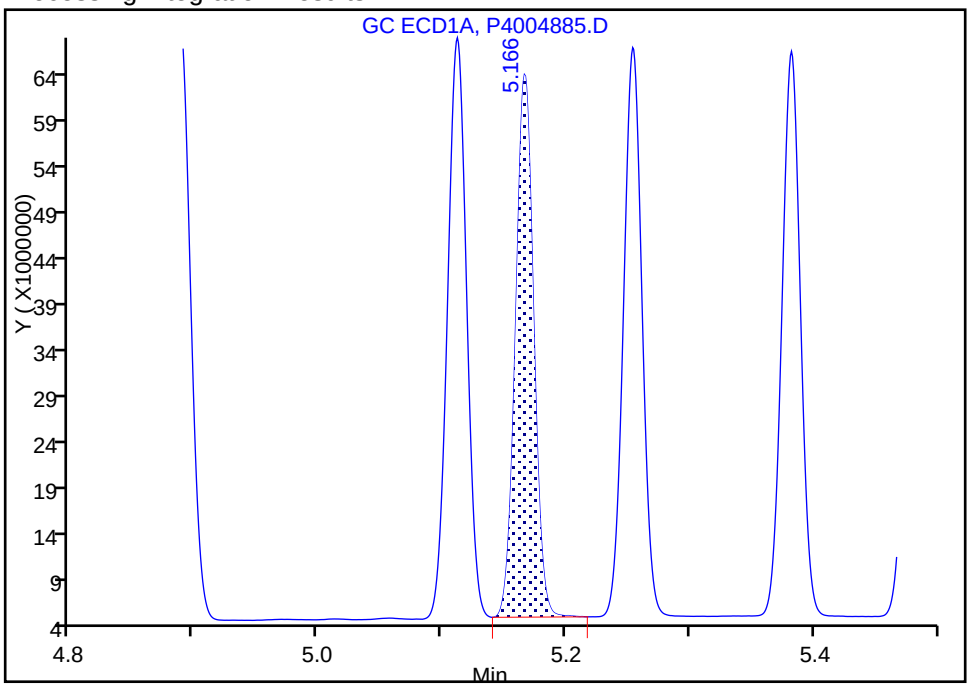
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

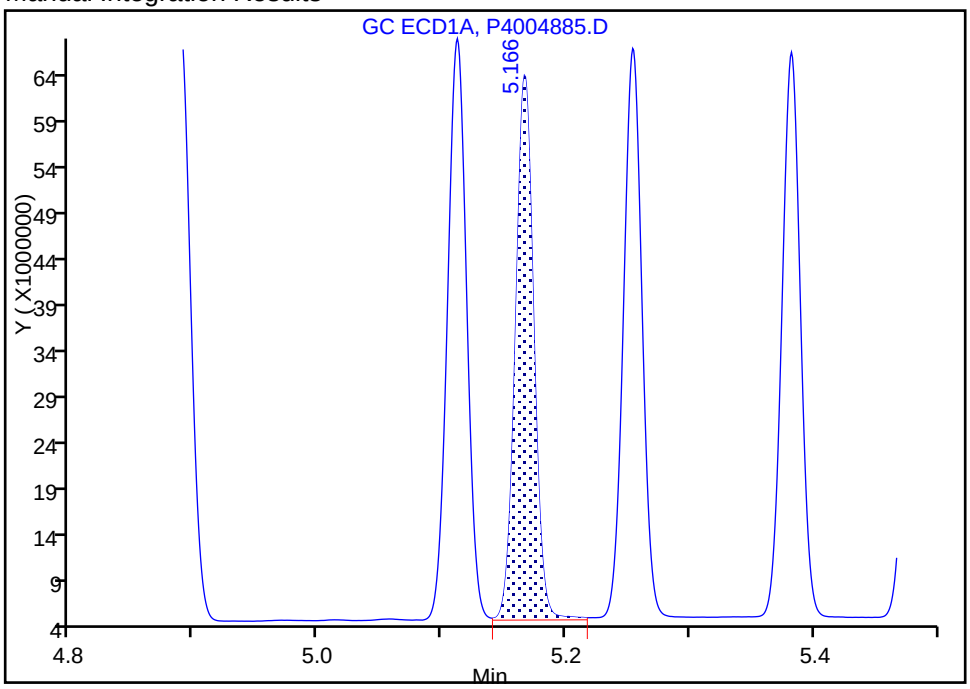
Processing Integration Results

RT: 5.17
Area: 59650130
Amount: 234.6570
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 60672774
Amount: 238.4326
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

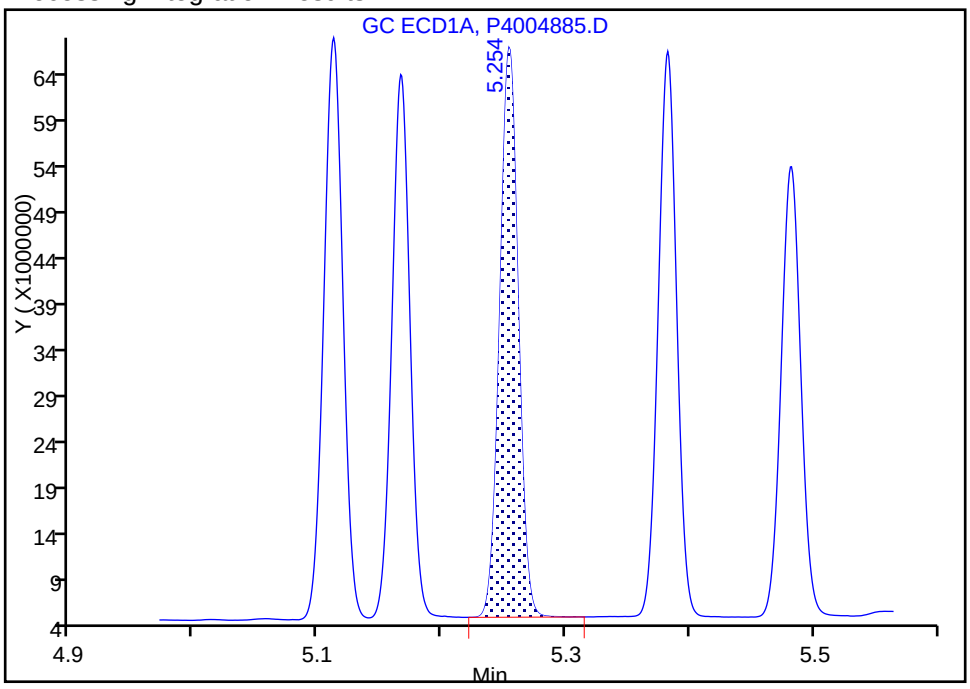
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

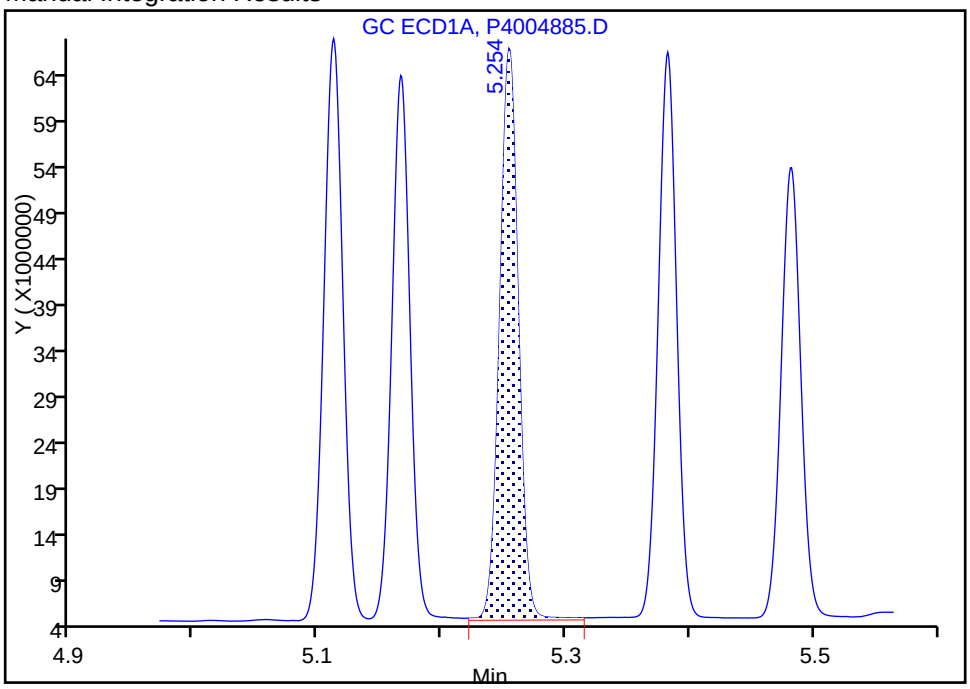
Processing Integration Results

RT: 5.25
Area: 63829568
Amount: 228.4726
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 65092408
Amount: 236.5168
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

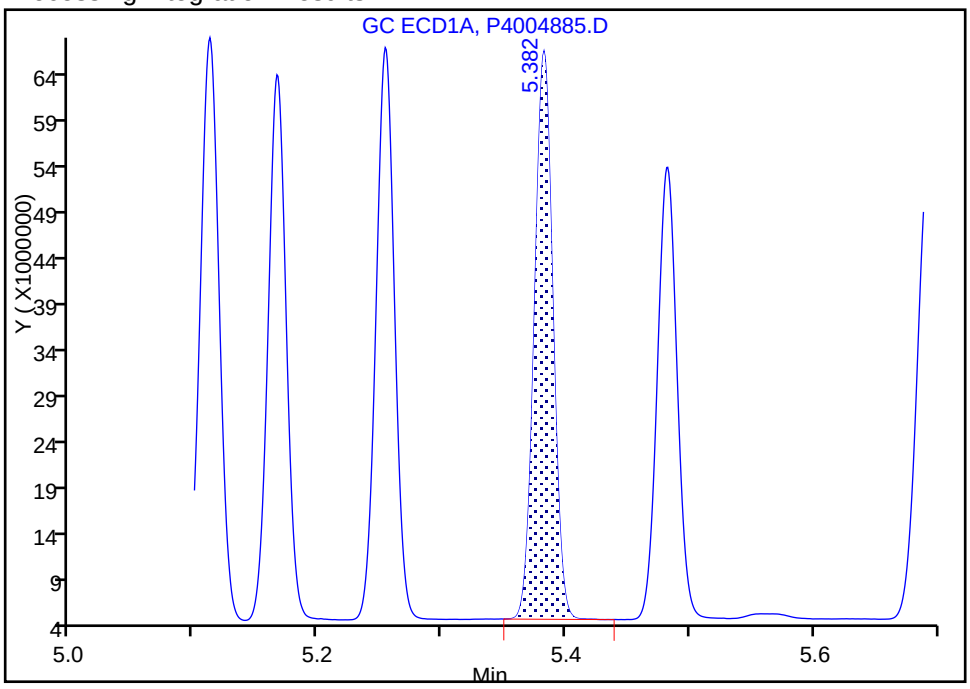
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

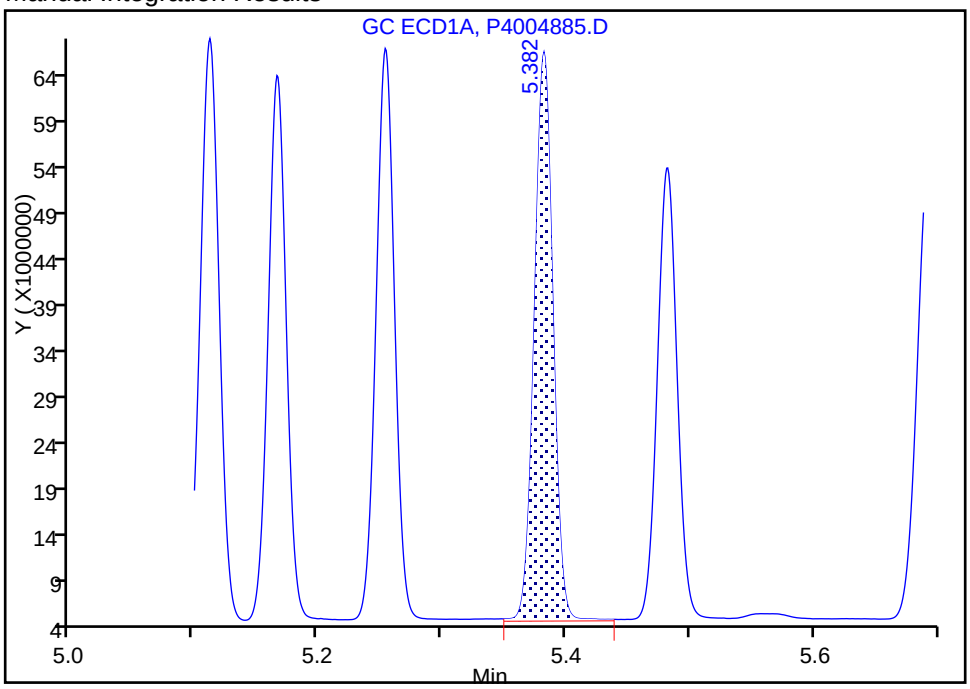
Processing Integration Results

RT: 5.38
Area: 63143434
Amount: 226.3112
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 64186095
Amount: 238.6431
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

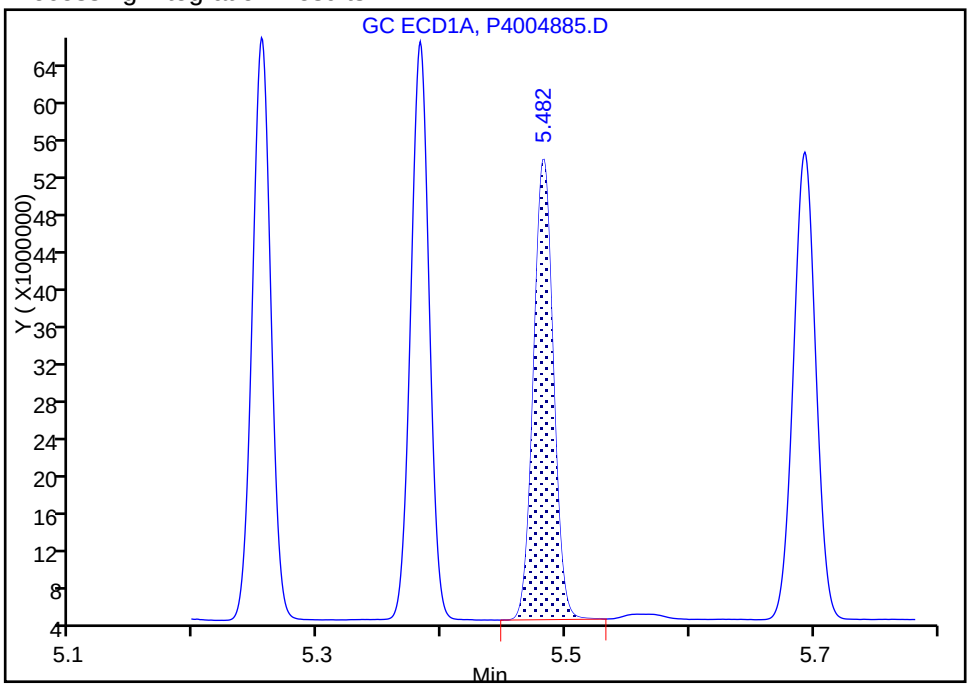
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

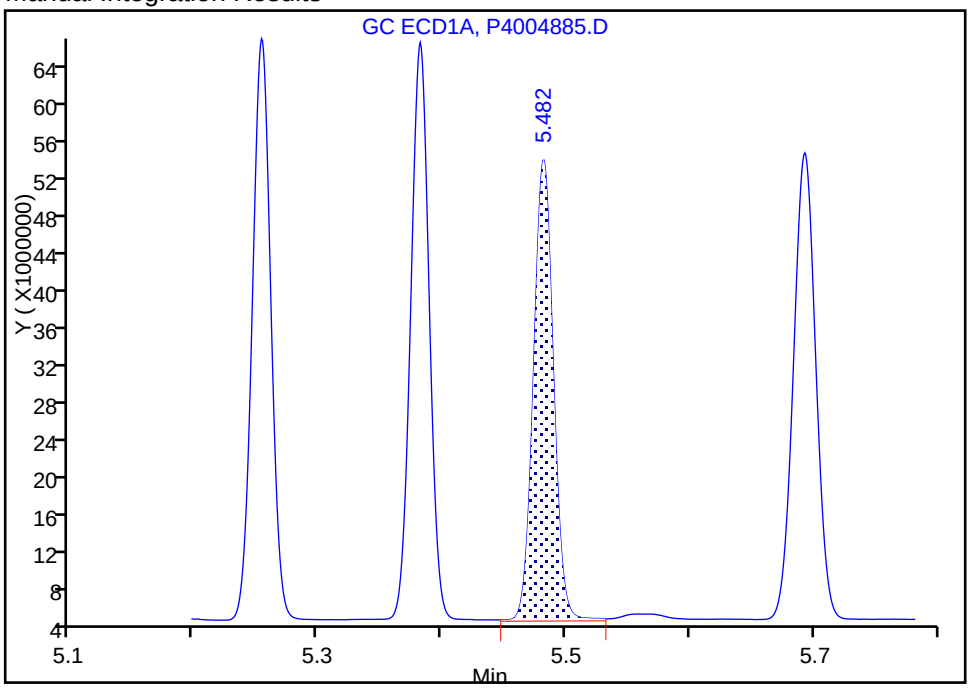
Processing Integration Results

RT: 5.48
Area: 53716425
Amount: 228.1804
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 54582165
Amount: 235.7265
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

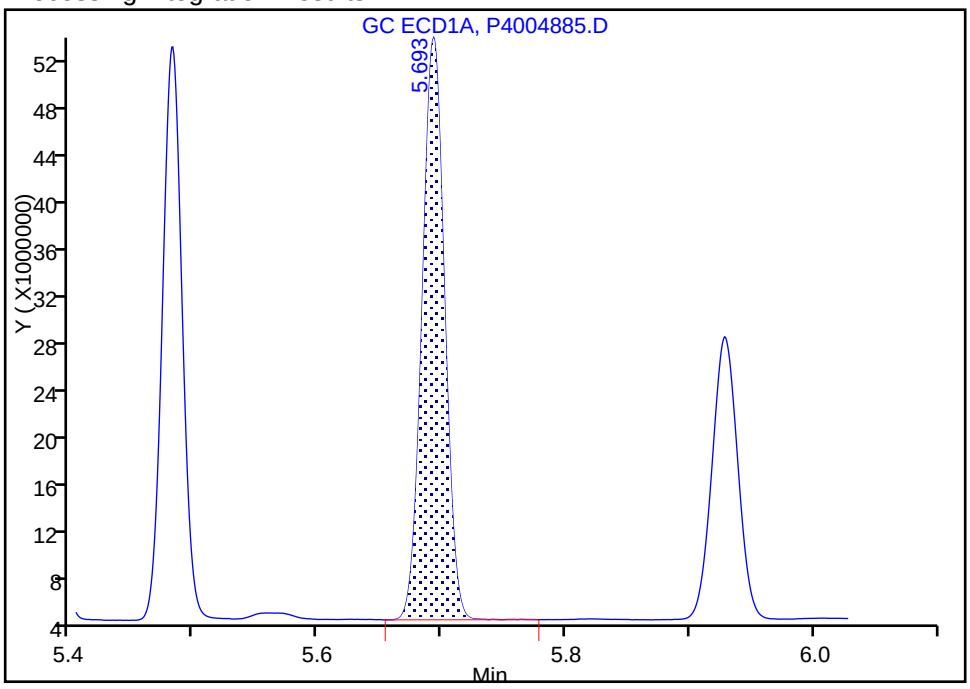
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

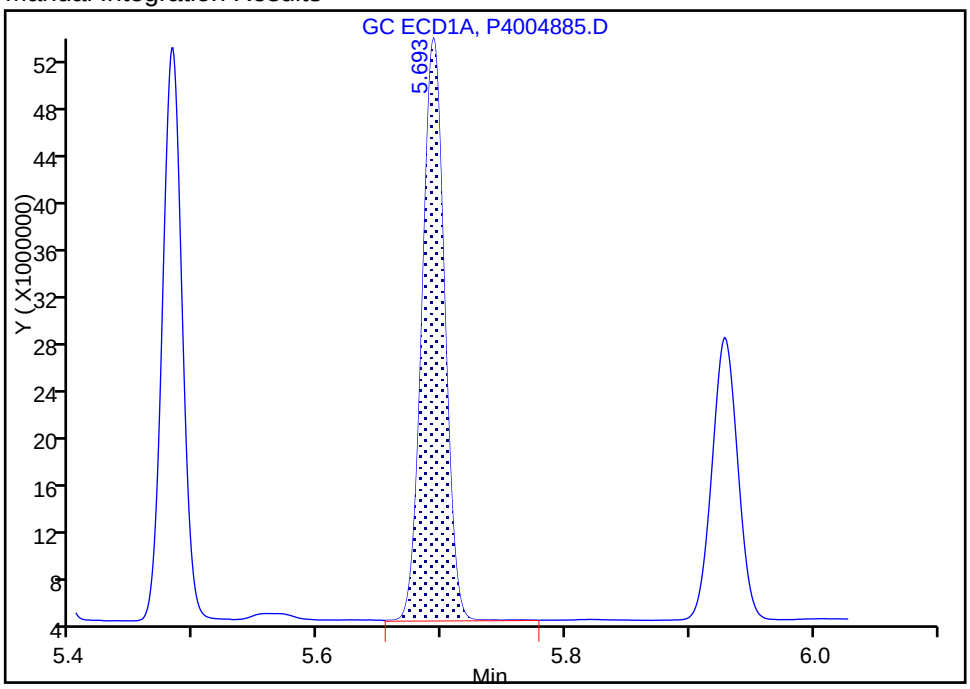
Processing Integration Results

RT: 5.69
Area: 61852174
Amount: 232.2893
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 62190154
Amount: 233.9888
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

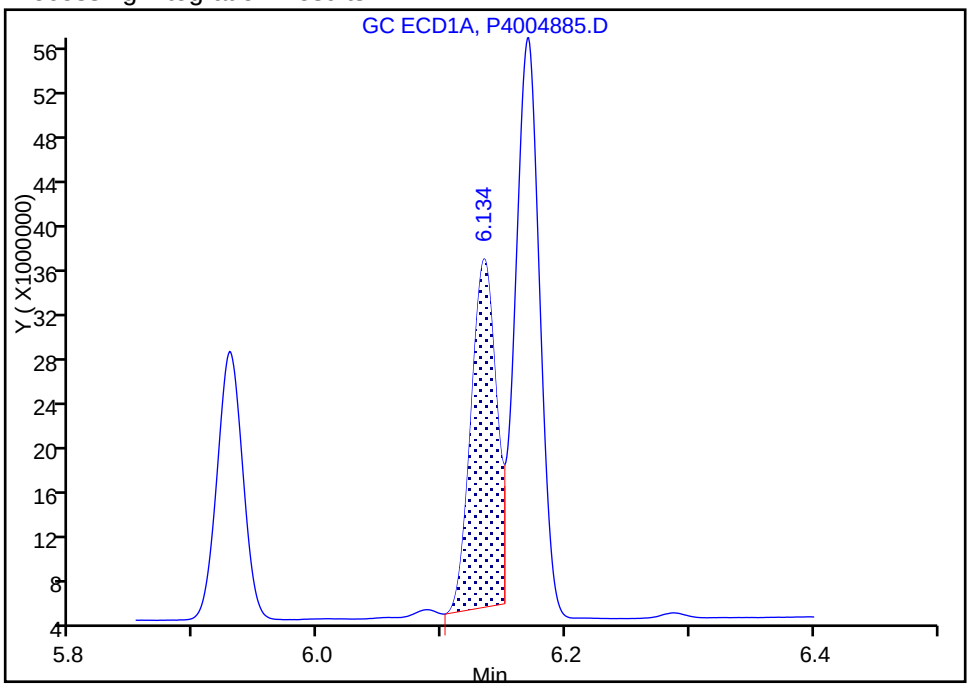
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

34 Mirex, CAS: 2385-85-5

Signal: 1

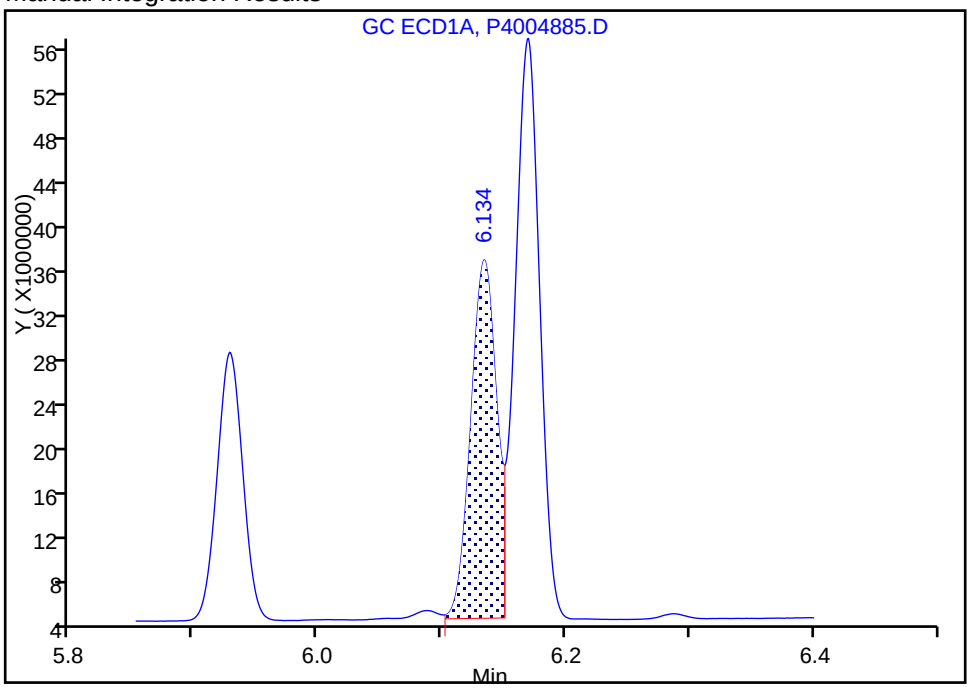
Processing Integration Results

RT: 6.13
Area: 44214222
Amount: 258.3237
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 46437684
Amount: 246.9606
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:14

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

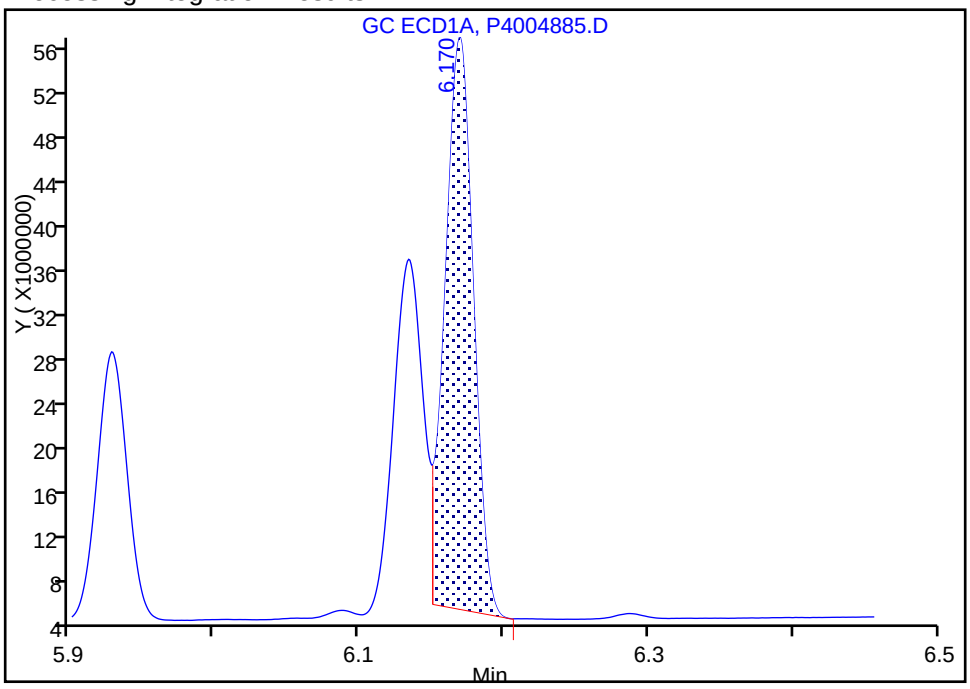
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

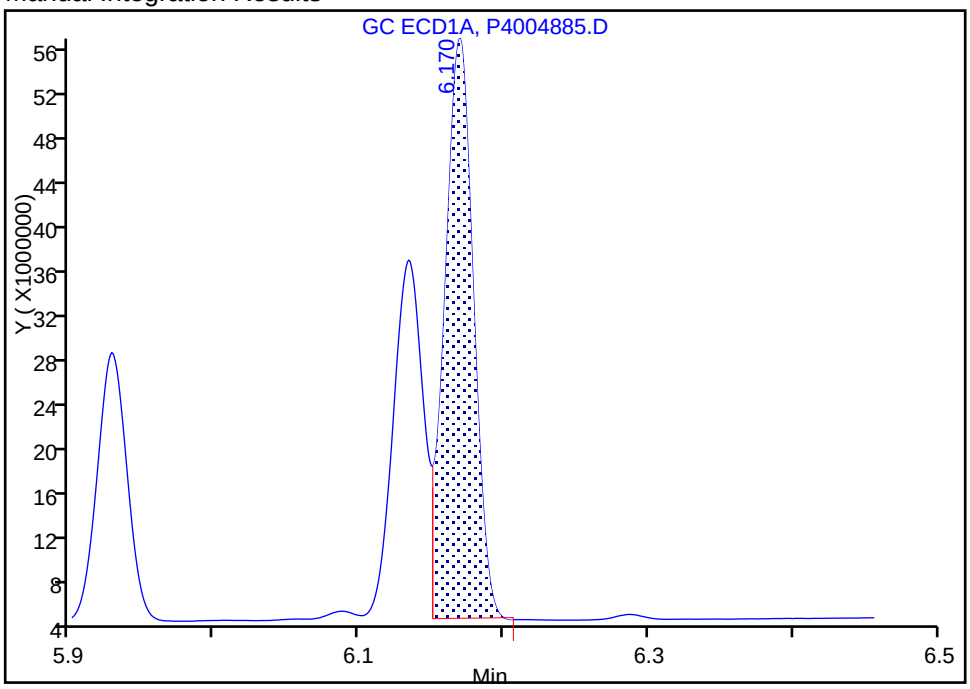
Processing Integration Results

RT: 6.17
Area: 69068656
Amount: 244.3495
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 70677969
Amount: 236.0551
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:14

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 09:10:59 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-007
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28810259	100.0	100.0	
2	1.513	1.514	-0.001	38564089	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.232	2.233	-0.001	58517789	200.0	203.5	
2	1.886	1.887	-0.001	78511207	200.0	215.0	
						RPD = 5.49	
15 alpha-BHC							
1	2.652	2.654	-0.002	196927550	500.0	474.7	
2	2.209	2.210	-0.001	267362879	500.0	503.1	
						RPD = 5.81	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	182445699	500.0	473.6	
2	2.402	2.402	0.000	241268187	500.0	497.2	
						RPD = 4.85	
6 beta-BHC							
1	2.969	2.970	-0.001	75403540	500.0	448.3	
2	2.449	2.449	0.000	98087924	500.0	466.4	
						RPD = 3.97	
32 delta-BHC							
1	3.220	3.220	0.000	185126474	500.0	471.2	
2	2.565	2.565	0.000	242975044	500.0	501.4	
						RPD = 6.21	
18 Heptachlor							
1	3.296	3.297	-0.001	177024434	500.0	463.4	
2	2.700	2.700	0.000	230230609	500.0	483.5	
						RPD = 4.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.604	3.605	-0.001	163104958	500.0	452.9	
2	2.906	2.907	-0.001	210299860	500.0	477.1	
						RPD = 5.21	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	152479122	500.0	465.2	
2	3.361	3.362	-0.001	196270296	500.0	472.2	
						RPD = 1.51	
9 gamma-Chlordane							M
1	4.417	4.420	-0.003	150086696	500.0	457.6	M
2	3.463	3.464	-0.001	197305184	500.0	477.6	
						RPD = 4.28	
23 alpha-Chlordane							M
1	4.580	4.580	0.000	142847352	500.0	460.6	M
2	3.579	3.580	-0.001	189103626	500.0	470.8	
						RPD = 2.20	
7 Endosulfan I							M
1	4.649	4.651	-0.002	139163926	500.0	463.1	M
2	3.711	3.712	-0.001	185201648	500.0	472.5	
						RPD = 1.99	
25 4,4'-DDE							M
1	4.721	4.723	-0.002	147238748	500.0	475.5	M
2	3.633	3.634	-0.001	195418561	500.0	490.2	
						RPD = 3.04	
30 Dieldrin							
1	4.887	4.887	0.000	156273747	500.0	475.4	
2	3.945	3.946	-0.001	213186435	500.0	492.4	
						RPD = 3.50	
20 Endrin							M
1	5.111	5.112	-0.001	138200668	500.0	475.2	M
2	4.199	4.200	-0.001	195141671	500.0	487.2	
						RPD = 2.50	
16 4,4'-DDD							M
1	5.166	5.166	0.000	123895825	500.0	478.1	M
2	4.255	4.256	-0.001	172140925	500.0	495.1	
						RPD = 3.50	
11 Endosulfan II							M
1	5.253	5.254	-0.001	131298067	500.0	468.4	M
2	4.438	4.439	-0.001	182111007	500.0	481.4	
						RPD = 2.74	
21 4,4'-DDT							M
1	5.381	5.381	0.000	130809930	500.0	477.5	M
2	4.556	4.557	-0.001	181631574	500.0	503.7	
						RPD = 5.34	
5 Endrin aldehyde							M
1	5.481	5.482	-0.001	109066149	500.0	462.5	M
2	4.835	4.835	0.000	155267812	500.0	492.1	
						RPD = 6.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.692	5.692	0.000	125420628	500.0	463.3	
2	5.142	5.143	-0.001	185597502	500.0	480.9	
						RPD = 3.73	
10 Methoxychlor							
1	5.928	5.928	0.000	69228051	500.0	463.1	
2	4.969	4.969	0.000	96191660	500.0	476.2	
						RPD = 2.79	
34 Mirex							M
1	6.134	6.133	0.001	92553381	500.0	483.3	M
2	5.064	5.065	-0.001	135265212	500.0	488.2	
						RPD = 1.01	
13 Endrin ketone							M
1	6.169	6.169	0.000	145234779	500.0	476.3	M
2	5.323	5.323	0.000	209954229	500.0	481.0	
						RPD = 0.99	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.093	0.001	44320427	200.0	208.4	
2	6.117	6.117	0.000	73442990	200.0	210.2	
						RPD = 0.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

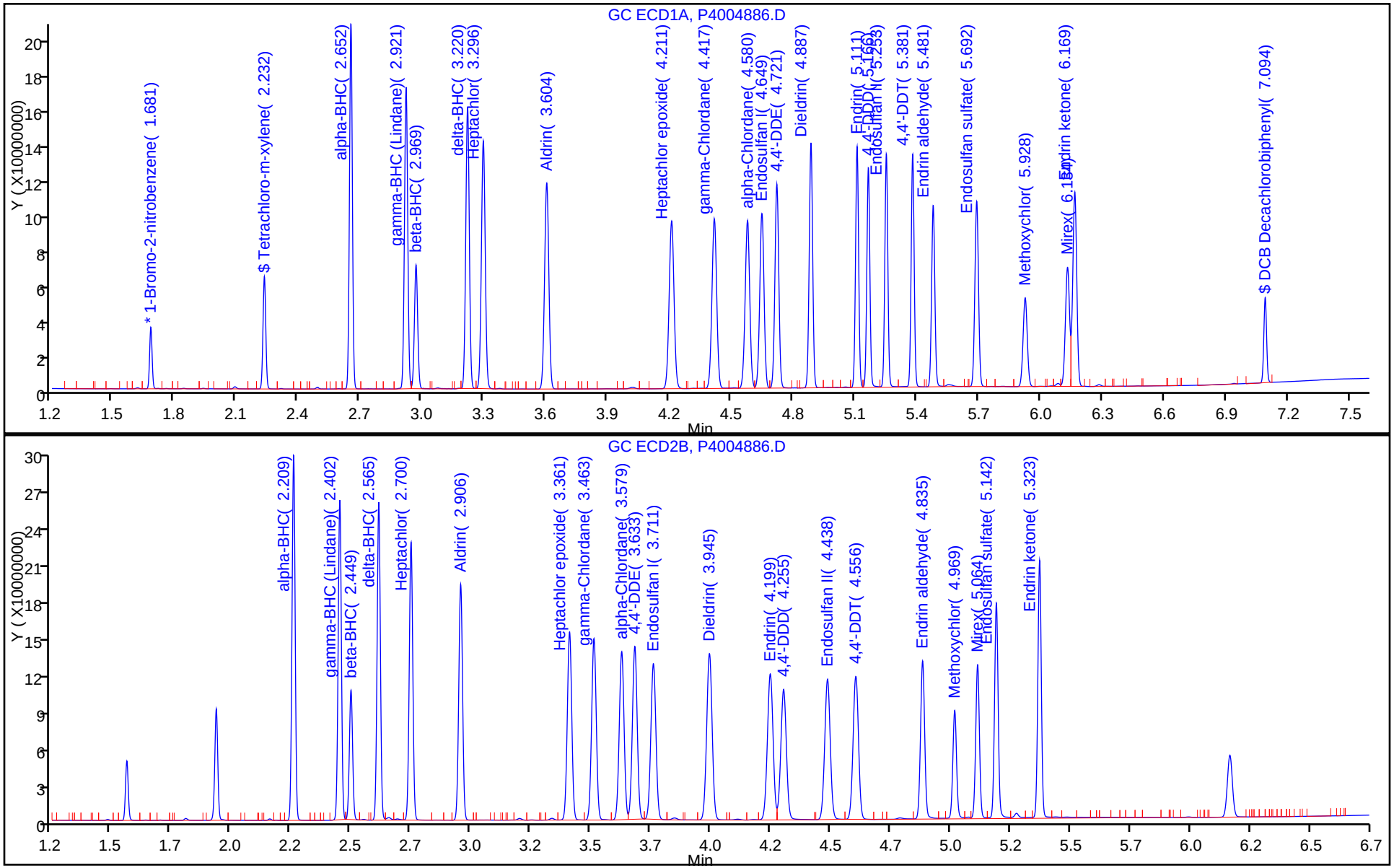
SGPESTL5_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D

Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

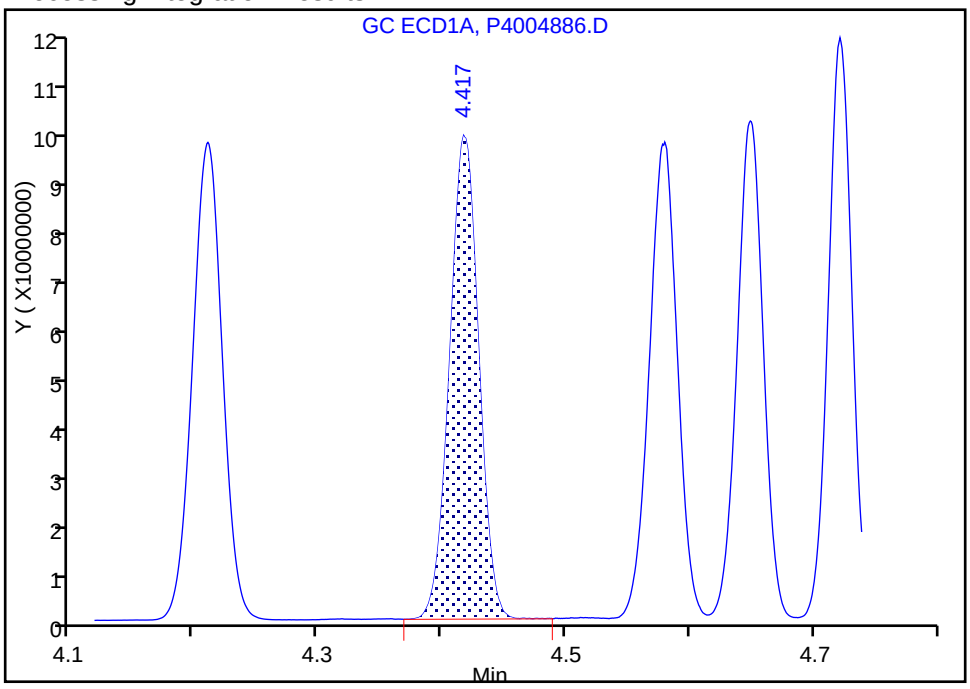
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

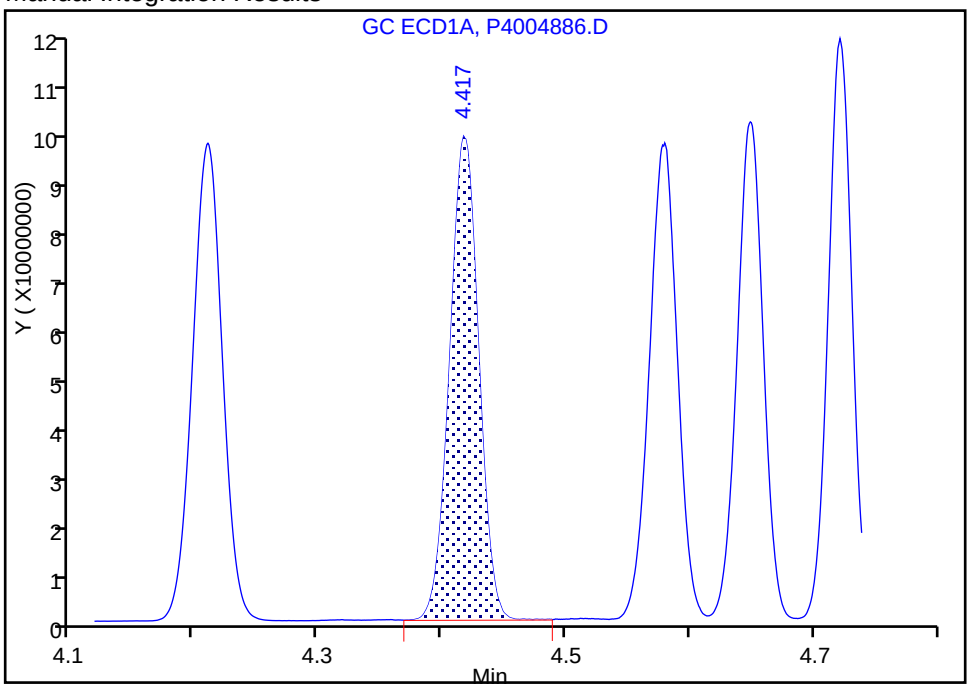
Processing Integration Results

RT: 4.42
Area: 149710360
Amount: 450.3365
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 150086696
Amount: 457.6352
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

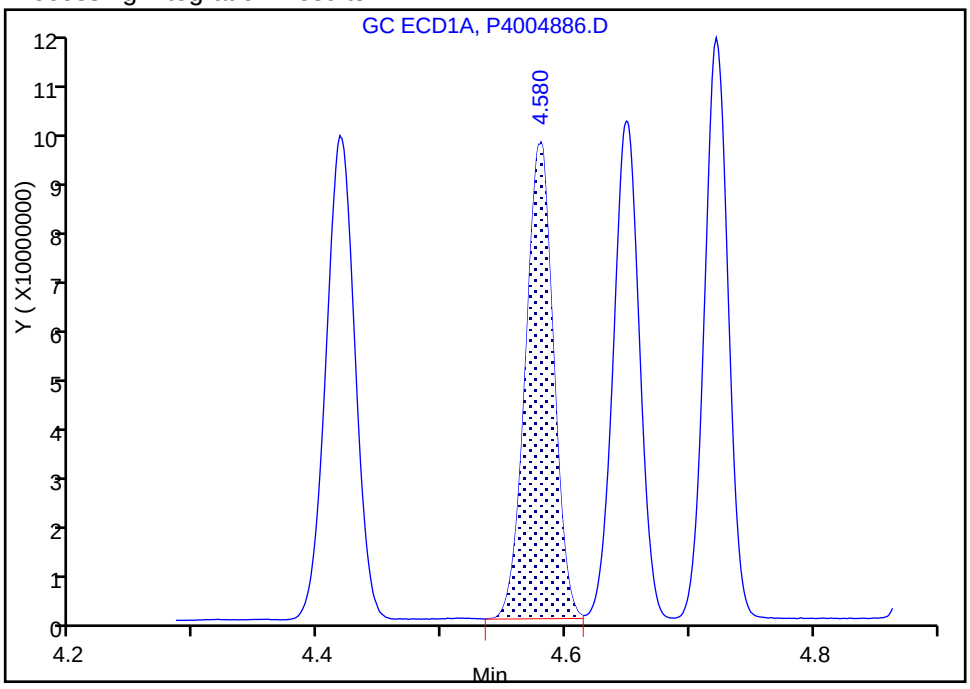
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

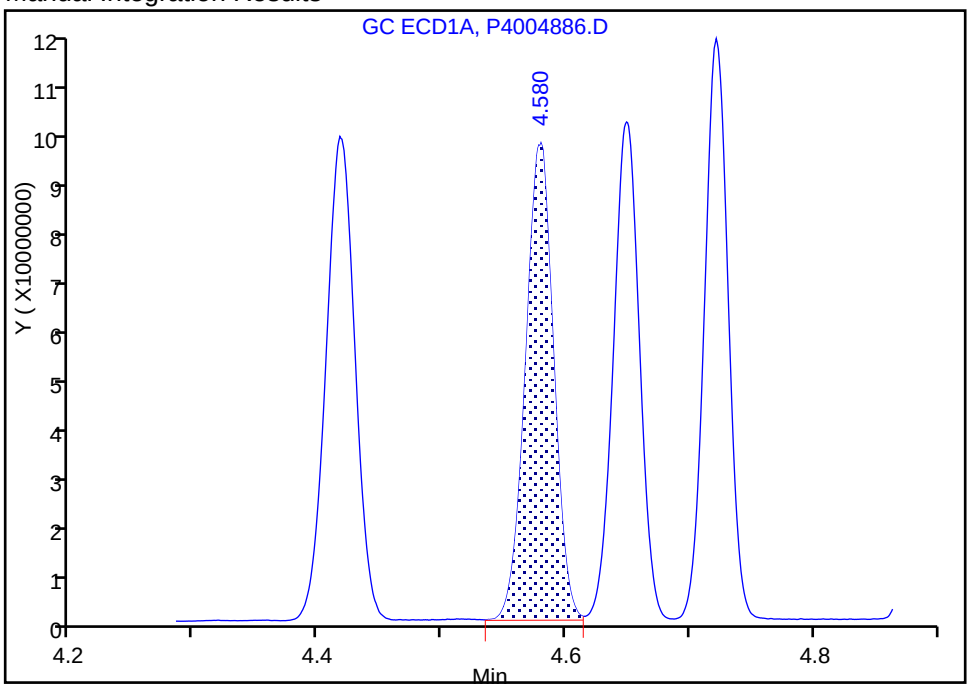
Processing Integration Results

RT: 4.58
Area: 142343574
Amount: 459.2667
Amount Units: ug/l



Manual Integration Results

RT: 4.58
Area: 142847352
Amount: 460.5926
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

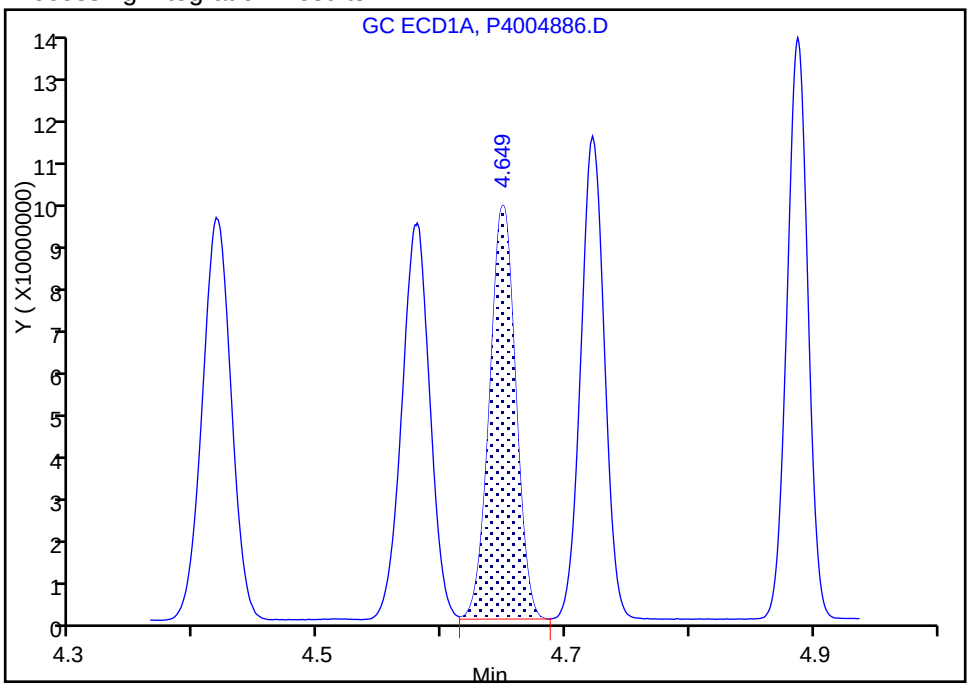
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

7 Endosulfan I, CAS: 959-98-8

Signal: 1

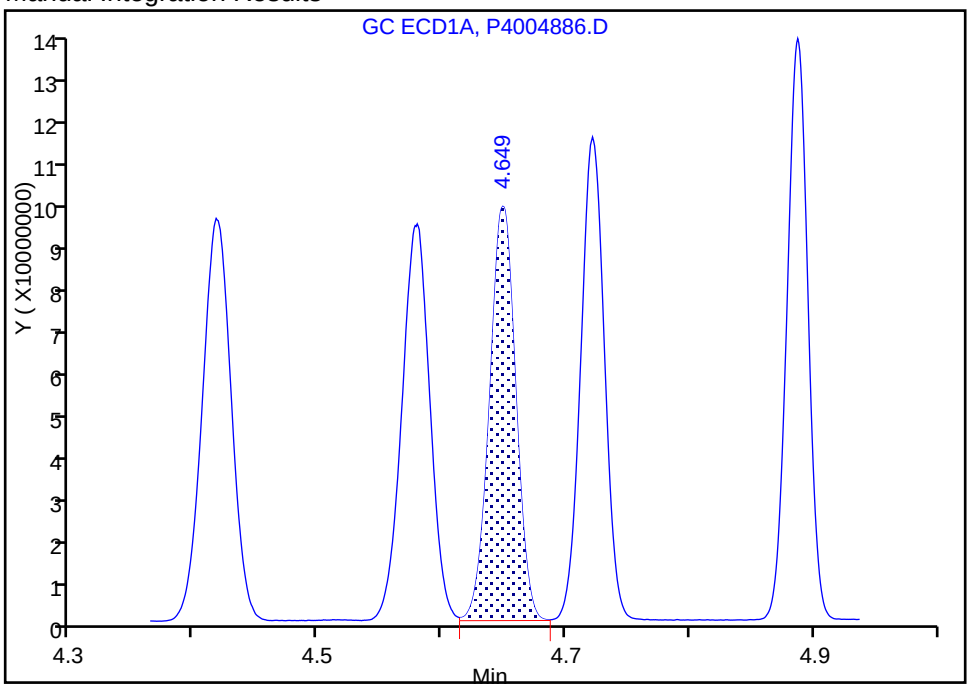
Processing Integration Results

RT: 4.65
Area: 138513709
Amount: 461.3679
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 139163926
Amount: 463.1325
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

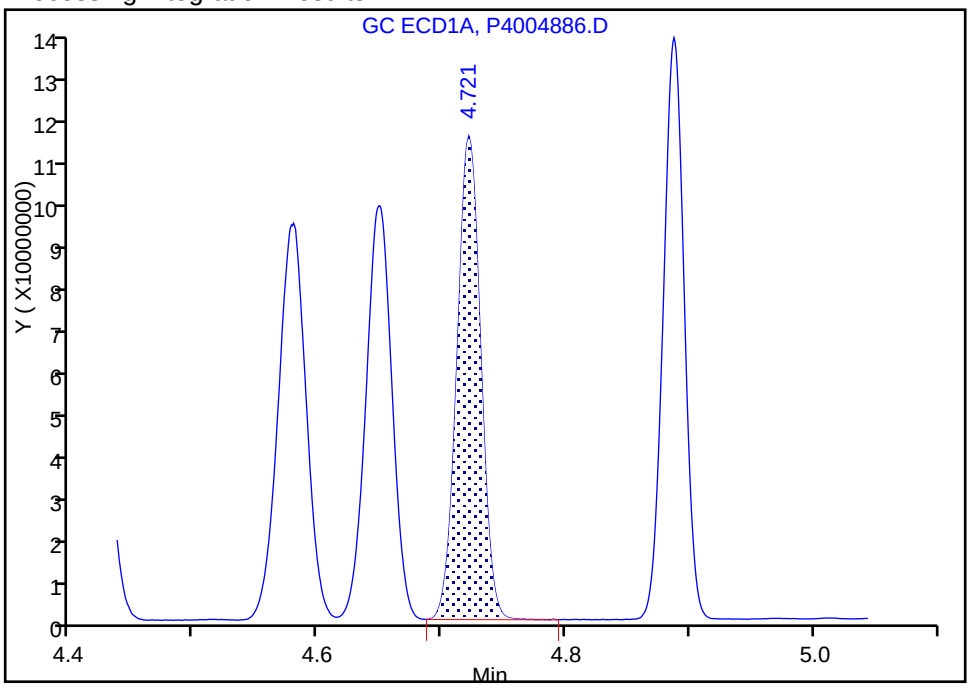
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D		
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL5		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

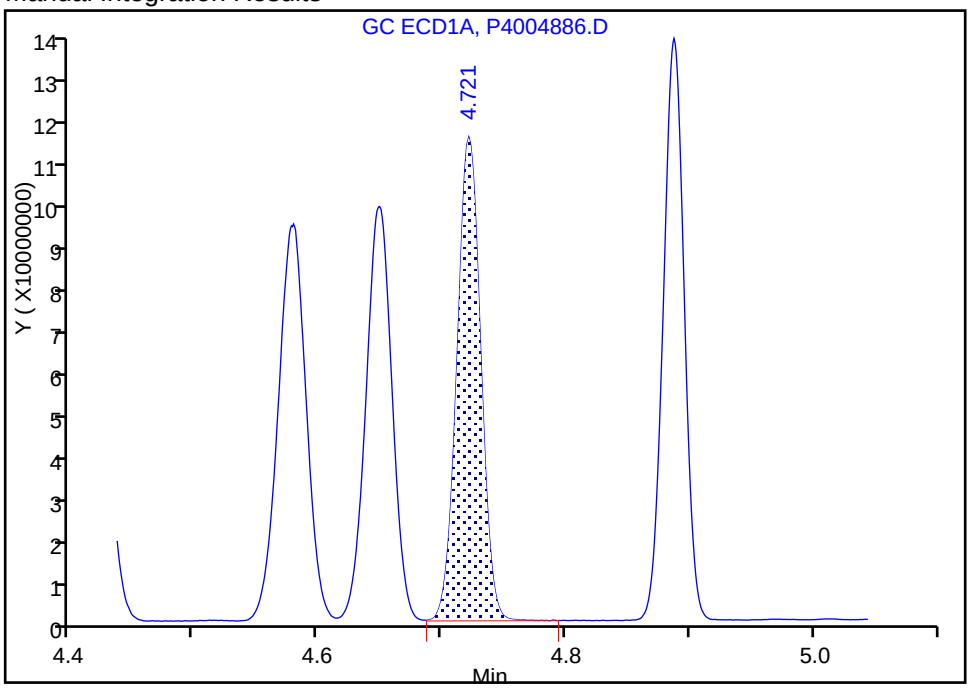
Processing Integration Results

RT: 4.72
Area: 146801004
Amount: 469.4775
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 147238748
Amount: 475.5379
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

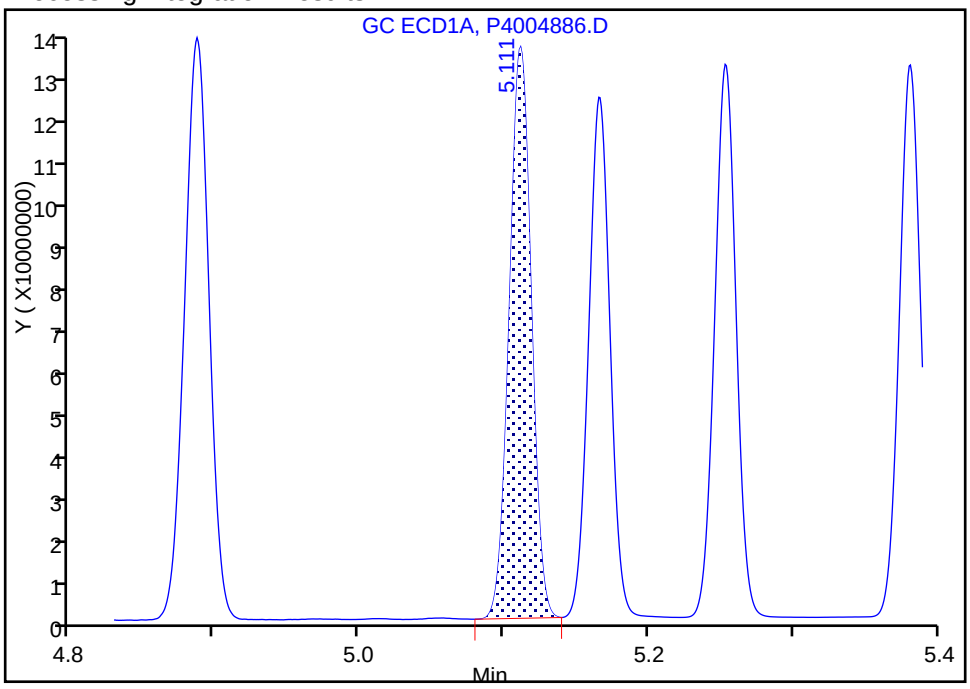
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D		
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL5		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

20 Endrin, CAS: 72-20-8

Signal: 1

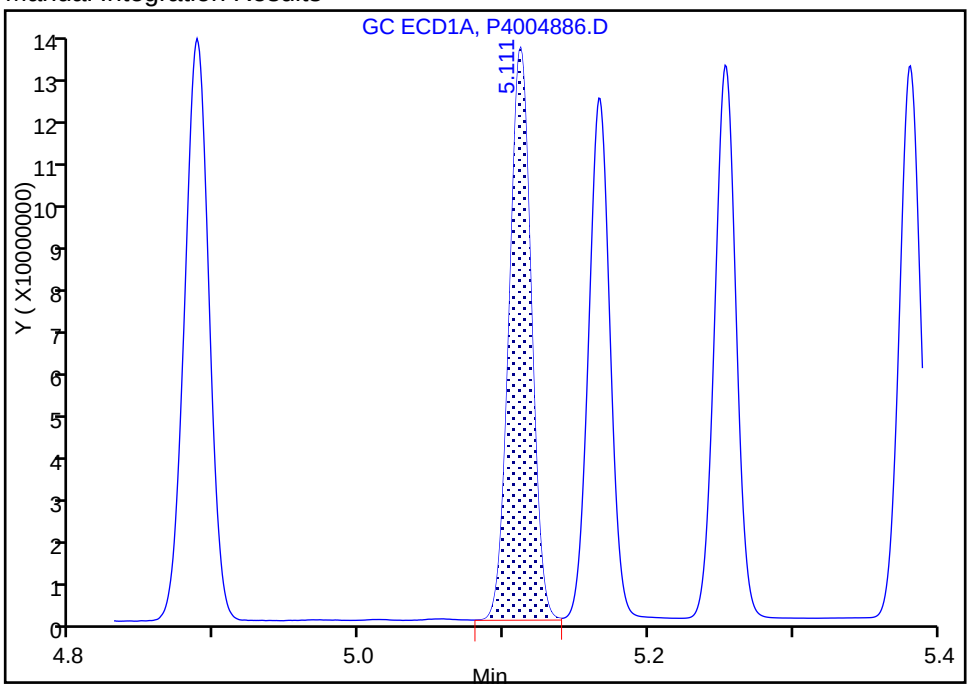
Processing Integration Results

RT: 5.11
Area: 137395867
Amount: 470.5817
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 138200668
Amount: 475.1850
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

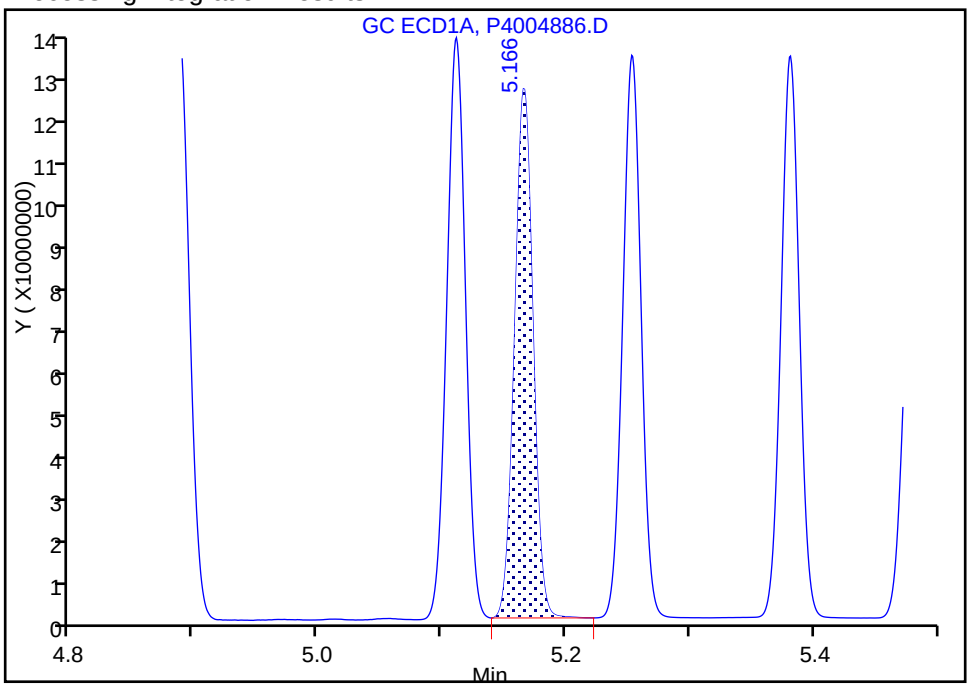
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

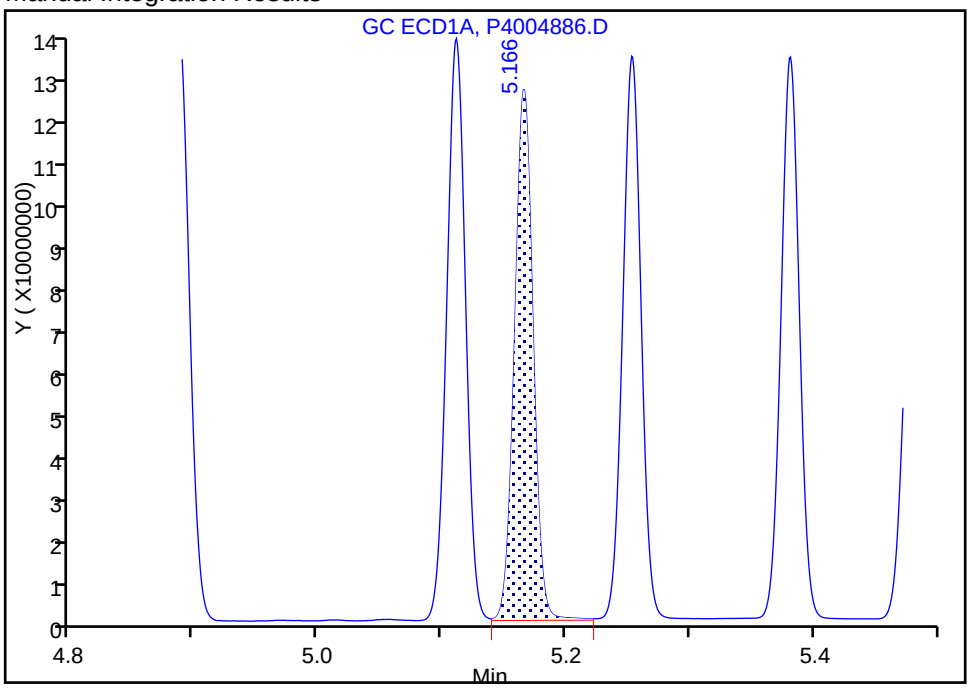
Processing Integration Results

RT: 5.17
Area: 122178779
Amount: 473.1799
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 123895825
Amount: 478.0607
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

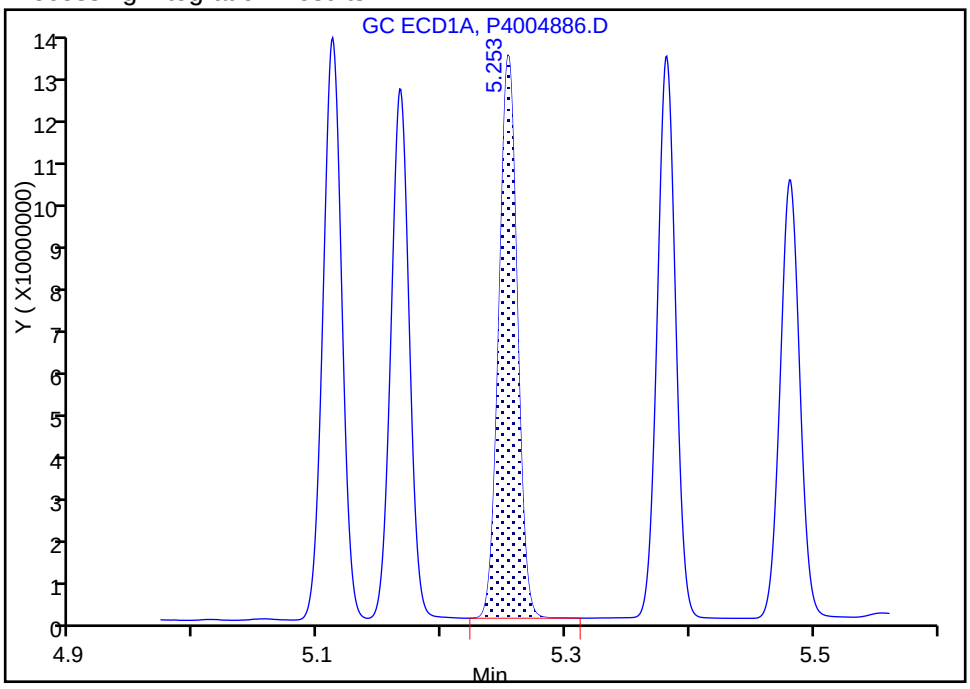
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

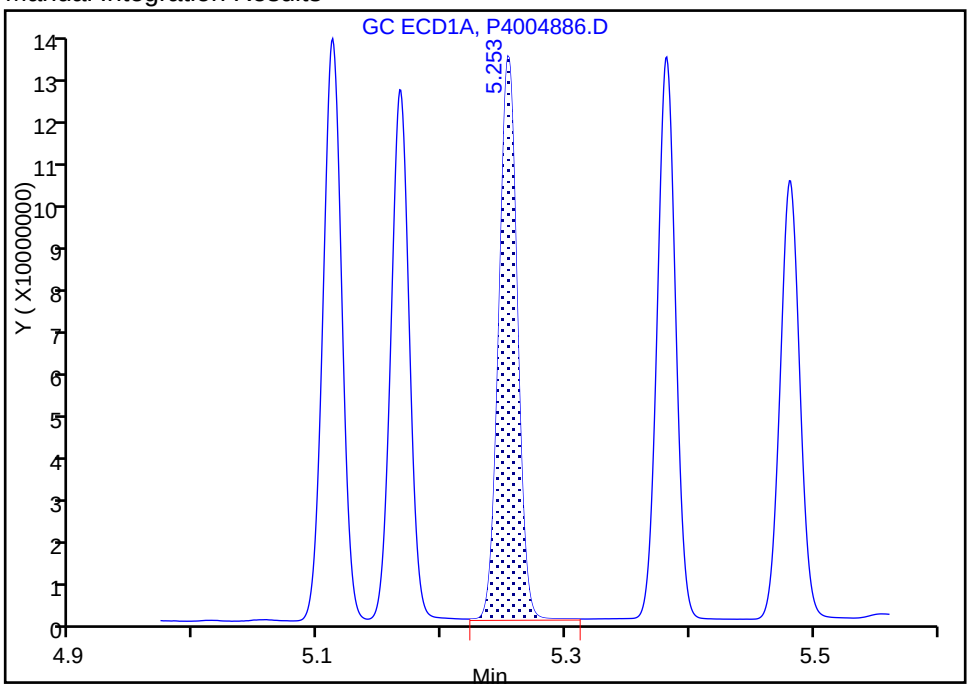
Processing Integration Results

RT: 5.25
Area: 129882457
Amount: 457.3856
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 131298067
Amount: 468.4299
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

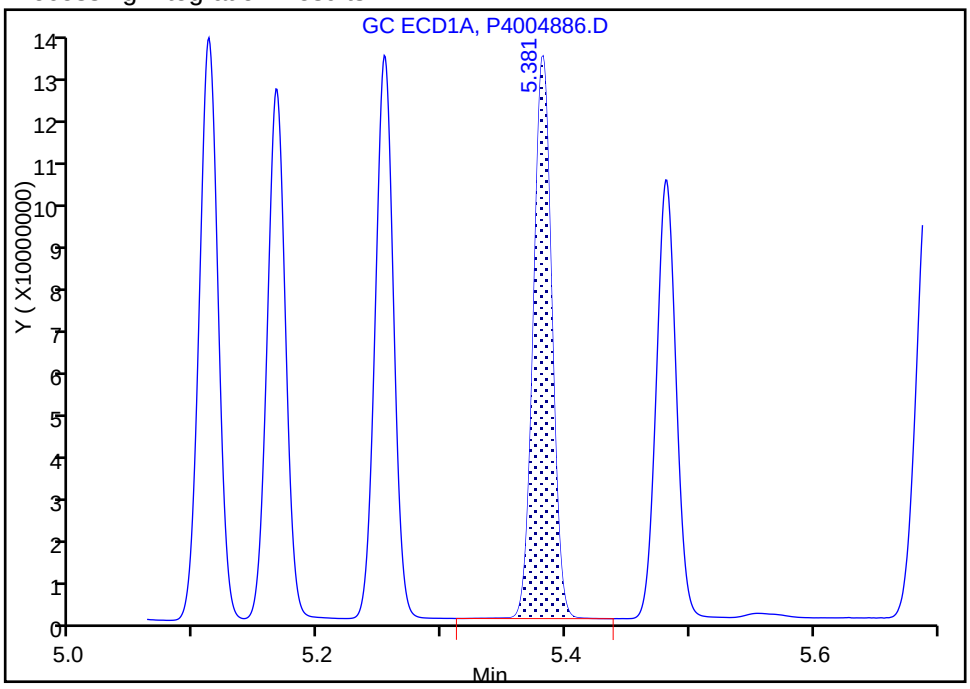
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

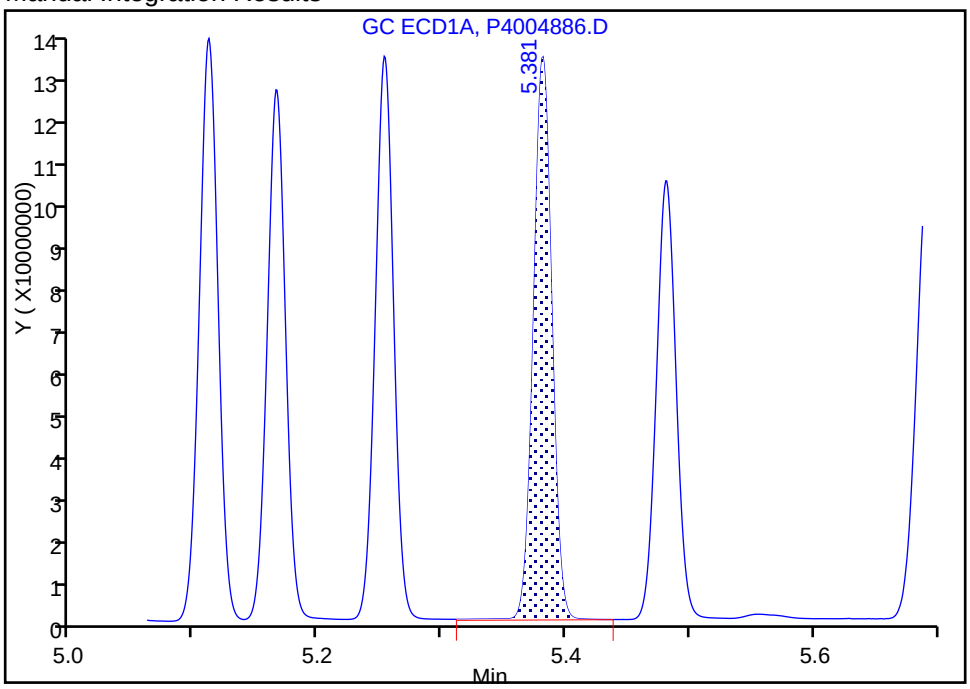
Processing Integration Results

RT: 5.38
Area: 129853820
Amount: 457.5854
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 130809930
Amount: 477.5329
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

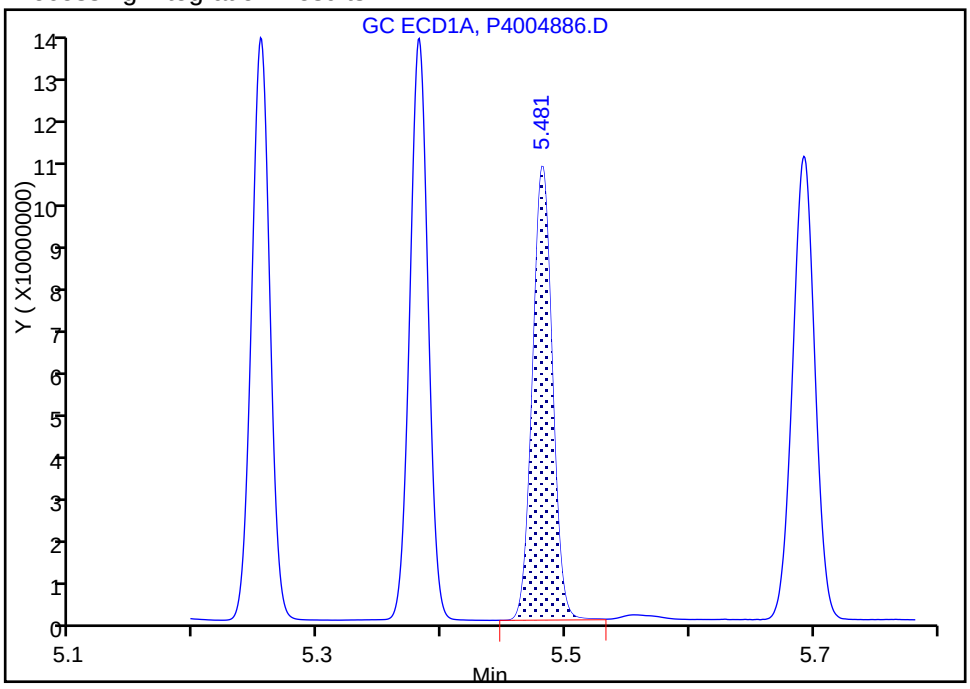
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Injection Date: 27-Sep-2017 09:10:59 Instrument ID: CPESTGC4
Lims ID: STD PESTL5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

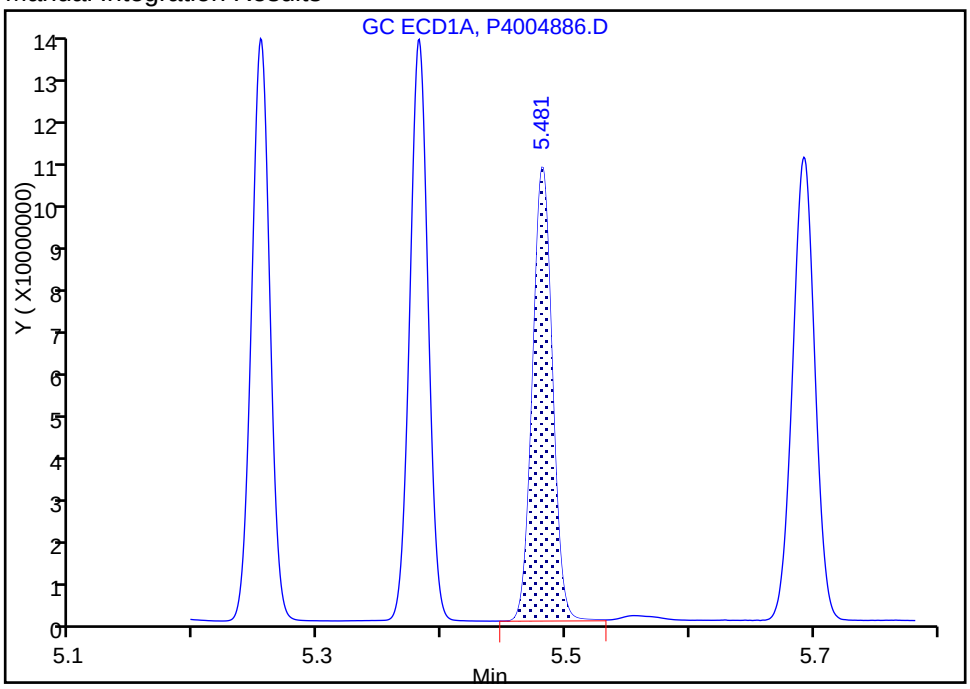
Processing Integration Results

RT: 5.48
Area: 108851139
Amount: 454.1660
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 109066149
Amount: 462.4899
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

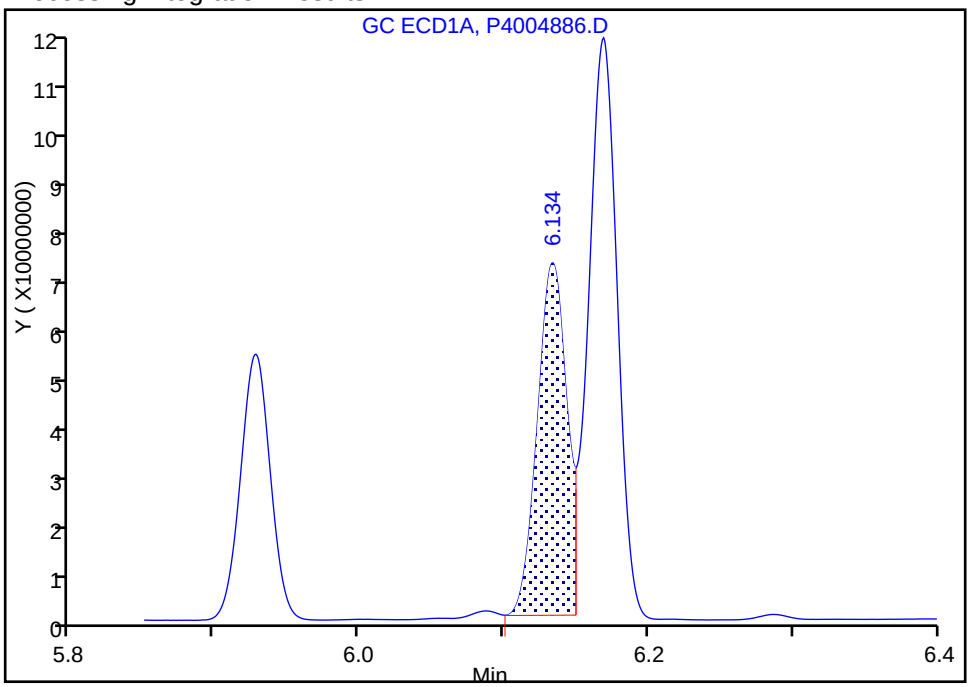
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Injection Date: 27-Sep-2017 09:10:59 Instrument ID: CPESTGC4
Lims ID: STD PESTL5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

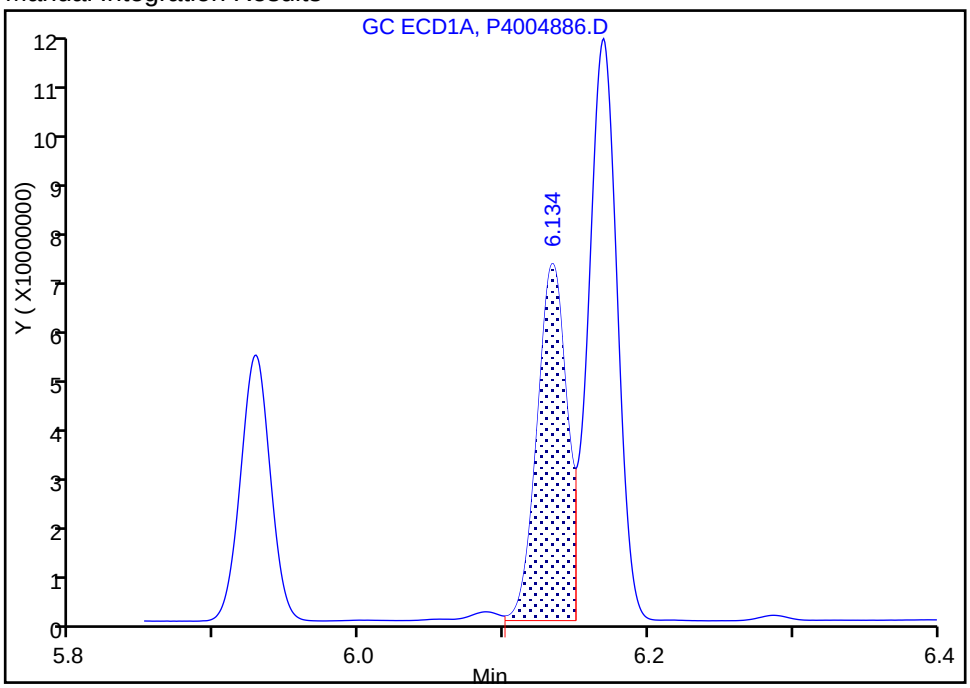
Processing Integration Results

RT: 6.13
Area: 90188083
Amount: 512.4415
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 92553381
Amount: 483.2859
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:37
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

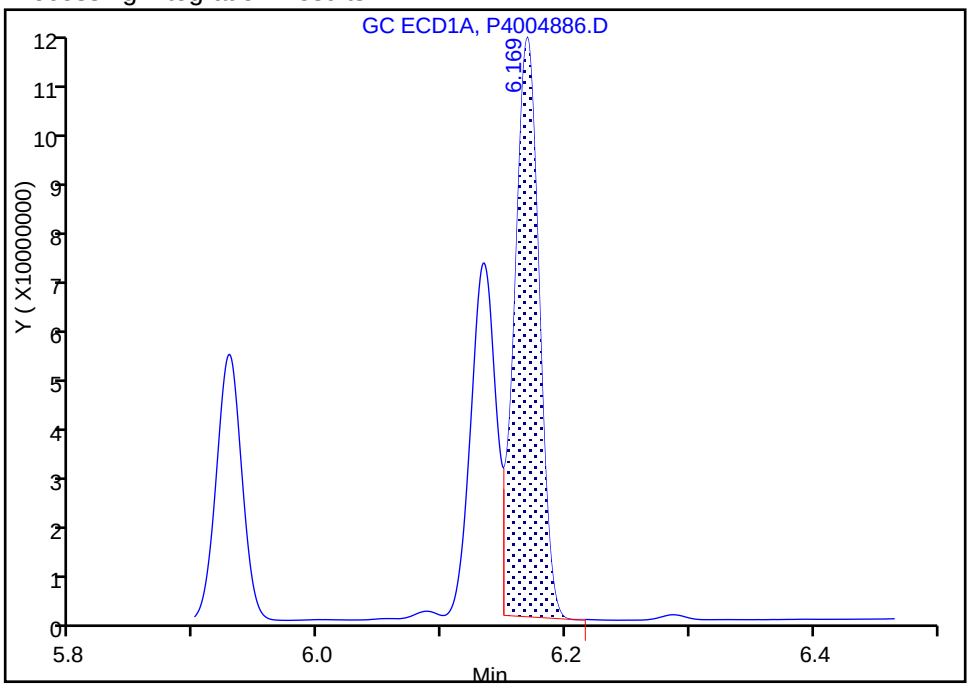
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

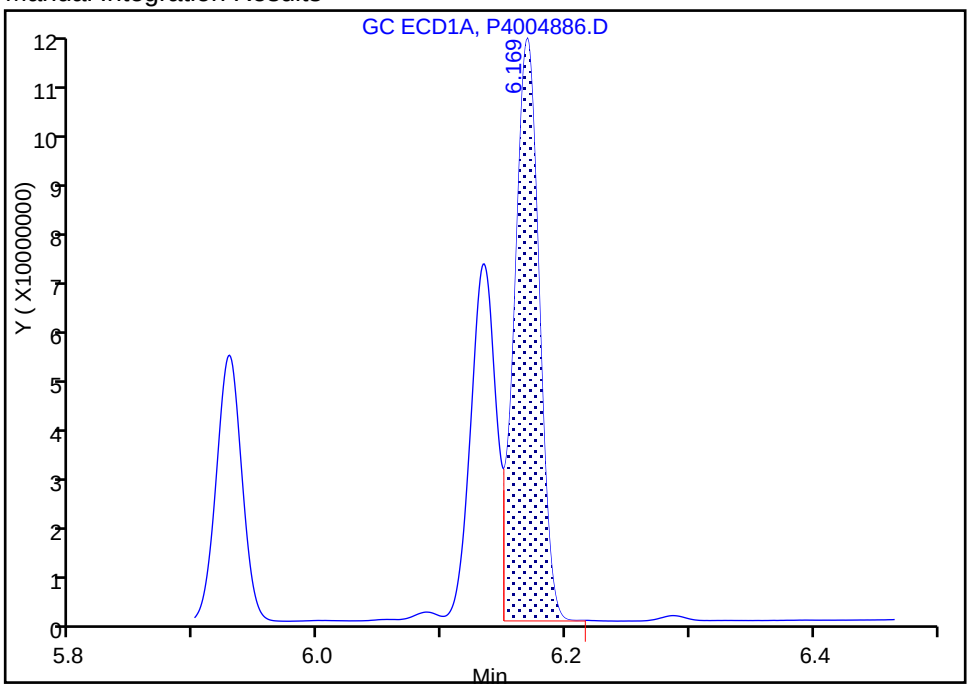
Processing Integration Results

RT: 6.17
Area: 143618226
Amount: 496.6025
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 145234779
Amount: 476.2715
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:37

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64208

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.3741	1.3637	1.4059	1.3605	1.3866	Ave		1.3781				1.3		20.0			
gamma-BHC (Lindane)	1.2821	1.2553	1.2724	1.2311	1.2513	Ave		1.2584				1.6		20.0			
beta-BHC	0.5993	0.5623	0.5409	0.5155	0.5087	Ave		0.5453				6.8		20.0			
delta-BHC	1.2665	1.2480	1.2748	1.2336	1.2601	Ave		1.2566				1.3		20.0			
Heptachlor	1.3269	1.2365	1.2414	1.1751	1.1940	Ave		1.2348				4.7		20.0			
Aldrin	1.3154	1.1115	1.1269	1.0706	1.0907	Ave		1.1430				8.6		20.0			
Heptachlor epoxide	1.2081	1.0751	1.0804	1.0071	1.0179	Ave		1.0777				7.4		20.0			
trans-Chlordane	1.1844	1.0680	1.0739	1.0062	1.0233	Ave		1.0712				6.5		20.0			
cis-Chlordane	1.1844	1.0405	1.0375	0.9642	0.9807	Ave		1.0415				8.3		20.0			
4,4'-DDE	1.0862	1.0423	1.0417	0.9847	1.0135	Ave		1.0337				3.7		20.0			
Endosulfan I	1.1245	1.0323	1.0206	0.9444	0.9605	Ave		1.0165				7.0		20.0			
Dieldrin	1.1584	1.1256	1.1559	1.0684	1.1056	Ave		1.1228				3.3		20.0			
Endrin	1.1186	1.0272	1.0589	0.9763	1.0120	Ave		1.0386				5.2		20.0			
4,4'-DDD	0.9289	0.8959	0.9307	0.8598	0.8928	Ave		0.9016				3.3		20.0			
Endosulfan II	1.0331	1.0001	1.0079	0.9189	0.9445	Ave		0.9809				4.8		20.0			
4,4'-DDT	0.9070	0.9535	0.9714	0.9013	0.9420	Ave		0.9350				3.2		20.0			
Endrin aldehyde	0.8071	0.8353	0.8606	0.7826	0.8052	Ave		0.8182				3.7		20.0			
Methoxychlor	0.5569	0.5310	0.5423	0.4902	0.4989	Ave		0.5238				5.4		20.0			
Mirex	0.7709	0.7047	0.7151	0.7002	0.7015	Ave		0.7185				4.2		20.0			
Endosulfan sulfate	1.0475	1.0251	1.0222	0.9462	0.9625	Ave		1.0007				4.4		20.0			
Endrin ketone	1.1750	1.1767	1.1511	1.0676	1.0889	Ave		1.1318				4.5		20.0			
Tetrachloro-m-xylene	0.7886	0.9408	0.9776	1.0086	1.0179	Ave		0.9467				9.9		20.0			
DCB Decachlorobiphenyl	0.7709	0.9354	0.9293	0.9415	0.9522	Ave		0.9059				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64208

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	1445319	28125700	58964160	130672962	267362879	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	1348560	25889272	53365655	118246794	241268187	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	630309	11597674	22684079	49510009	98087924	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	1332138	25739135	53466596	118490453	242975044	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	1395704	25502692	52065379	112872805	230230609	2.50	50.0	100	250	500
Aldrin	BNB	Ave	1383561	22924487	47263361	102831108	210299860	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	1270694	22174471	45313024	96736728	196270296	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	1245826	22027564	45042212	96648764	197305184	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	1245737	21460792	43513175	92611458	189103626	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	1142514	21496333	43691386	94576527	195418561	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	1182813	21290606	42806026	90713790	185201648	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	1218459	23215863	48478494	102621982	213186435	2.50	50.0	100	250	500
Endrin	BNB	Ave	1176601	21185619	44412680	93769443	195141671	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	977082	18476782	39034234	82580735	172140925	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	1086632	20626396	42274152	88264400	182111007	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	953977	19665583	40739512	86571844	181631574	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	848959	17226948	36095786	75170596	155267812	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	585719	10951141	22746030	47082647	96191660	2.50	50.0	100	250	500
Mirex	BNB	Ave	810826	14534654	29991407	67254686	135265212	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	1101769	21141579	42870824	90883527	185597502	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	1235923	24267944	48279033	102539557	209954229	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	2073728	19404595	40999889	58125825	78511207	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	2027199	19292555	38977750	54260076	73442990	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 08:22:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:32:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.679	0.006	31853746	100.0	100.0	
2	1.512	1.513	-0.001	42073150	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							M
1	2.239	2.230	0.009	1927219	6.25	6.06	M
2	1.886	1.885	0.001	2073728	6.25	5.21	M
						RPD = 15.21	
15 alpha-BHC							M
1	2.659	2.651	0.008	1291740	2.50	2.82	M
2	2.208	2.208	0.000	1445319	2.50	2.49	M
						RPD = 12.18	
2 gamma-BHC (Lindane)							M
1	2.930	2.918	0.012	1143940	2.50	2.69	M
2	2.402	2.400	0.002	1348560	2.50	2.55	M
						RPD = 5.31	
6 beta-BHC							M
1	2.982	2.967	0.015	503444	2.50	2.71	M
2	2.450	2.447	0.003	630309	2.50	2.75	M
						RPD = 1.48	
32 delta-BHC							M
1	3.231	3.218	0.013	1191307	2.50	2.74	M
2	2.565	2.563	0.002	1332138	2.50	2.52	M
						RPD = 8.47	
18 Heptachlor							M
1	3.307	3.294	0.013	1195306	2.50	2.83	M
2	2.700	2.698	0.002	1395704	2.50	2.69	M
						RPD = 5.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.615	3.603	0.012	1164753	2.50	2.93	M
2	2.907	2.905	0.002	1383561	2.50	2.88	M
						RPD = 1.66	
12 Heptachlor epoxide							M
1	4.227	4.208	0.019	911326	2.50	2.51	M
2	3.363	3.359	0.004	1270694	2.50	2.80	M
						RPD = 10.83	
9 gamma-Chlordane							M
1	4.432	4.418	0.014	1027152	2.50	2.83	M
2	3.466	3.462	0.004	1245826	2.50	2.76	M
						RPD = 2.44	
23 alpha-Chlordane							M
1	4.594	4.578	0.016	973142	2.50	2.84	M
2	3.581	3.577	0.004	1245737	2.50	2.84	M
						RPD = 0.18	
7 Endosulfan I							M
1	4.661	4.648	0.013	935618	2.50	2.82	a
2	3.714	3.709	0.005	1182813	2.50	2.77	M
						RPD = 1.81	
25 4,4'-DDE							M
1	4.733	4.722	0.011	892866	2.50	2.61	M
2	3.637	3.632	0.005	1142514	2.50	2.63	M
						RPD = 0.72	
30 Dieldrin							M
1	4.897	4.886	0.011	967073	2.50	2.66	M
2	3.950	3.943	0.007	1218459	2.50	2.58	
						RPD = 3.11	
20 Endrin							M
1	5.120	5.110	0.010	852038	2.50	2.65	M
2	4.202	4.198	0.004	1176601	2.50	2.69	M
						RPD = 1.61	
16 4,4'-DDD							M
1	5.174	5.165	0.009	744819	2.50	2.60	
2	4.259	4.253	0.006	977082	2.50	2.58	M
						RPD = 0.91	
11 Endosulfan II							M
1	5.261	5.253	0.008	820853	2.50	2.65	M
2	4.442	4.437	0.005	1086632	2.50	2.63	M
						RPD = 0.60	
21 4,4'-DDT							M
1	5.389	5.380	0.009	771321	2.50	2.55	M
2	4.560	4.555	0.005	953977	2.50	2.42	
						RPD = 4.90	
5 Endrin aldehyde							M
1	5.489	5.480	0.009	675307	2.50	2.59	M
2	4.838	4.834	0.004	848959	2.50	2.47	M
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.700	5.692	0.008	808856	2.50	2.70	
2	5.146	5.142	0.004	1101769	2.50	2.62	M
						RPD = 3.22	
10 Methoxychlor							M
1	5.939	5.927	0.012	434392	2.50	2.63	M
2	4.972	4.968	0.004	585719	2.50	2.66	M
						RPD = 1.12	
34 Mirex							M
1	6.141	6.133	0.008	574199	2.50	2.71	M
2	5.067	5.063	0.004	810826	2.50	2.68	M
						RPD = 1.09	
13 Endrin ketone							M
1	6.177	6.167	0.010	898789	2.50	2.67	M
2	5.326	5.323	0.003	1235923	2.50	2.60	M
						RPD = 2.68	
$ 24 DCB Decachlorobiphenyl							M
1	7.099	7.092	0.007	1259714	6.25	5.36	M
2	6.122	6.116	0.006	2027199	6.25	5.32	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

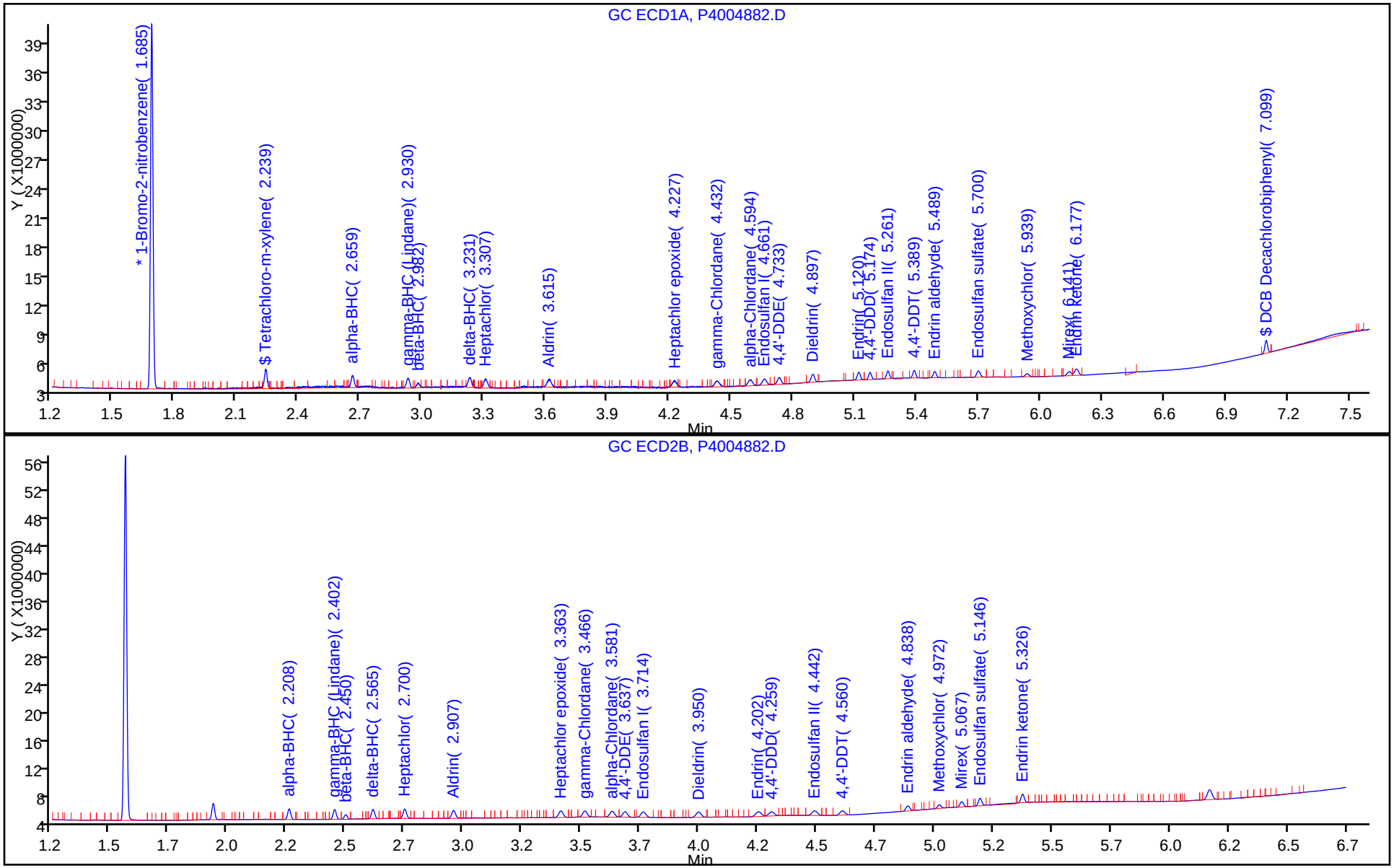
SGPEST-L1_00008	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

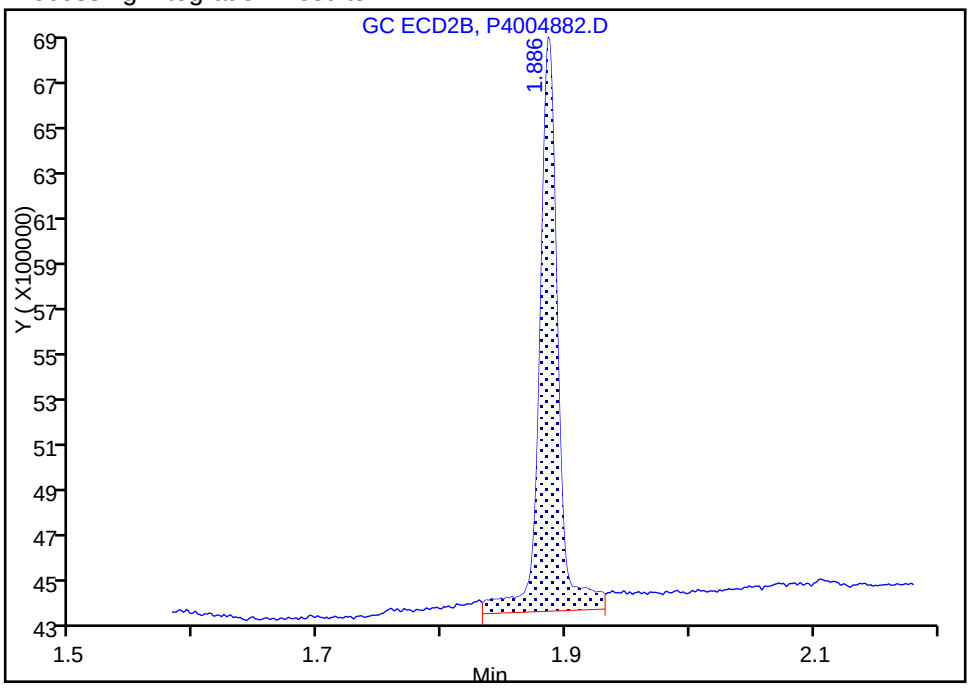
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

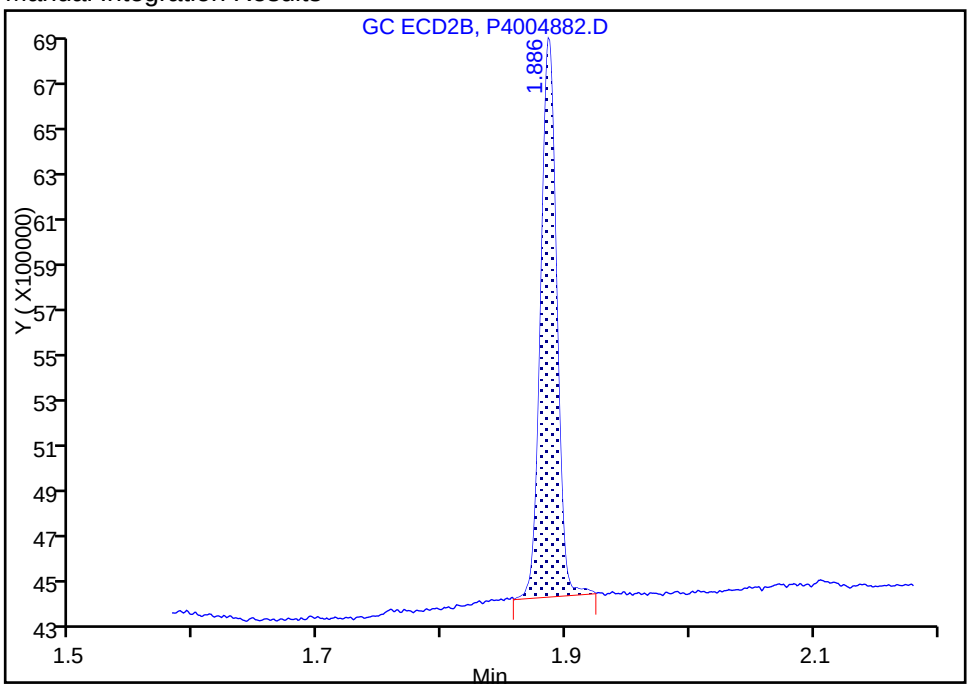
Processing Integration Results

RT: 1.89
Area: 2447338
Amount: 5.965236
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 2073728
Amount: 5.206301
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:24

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

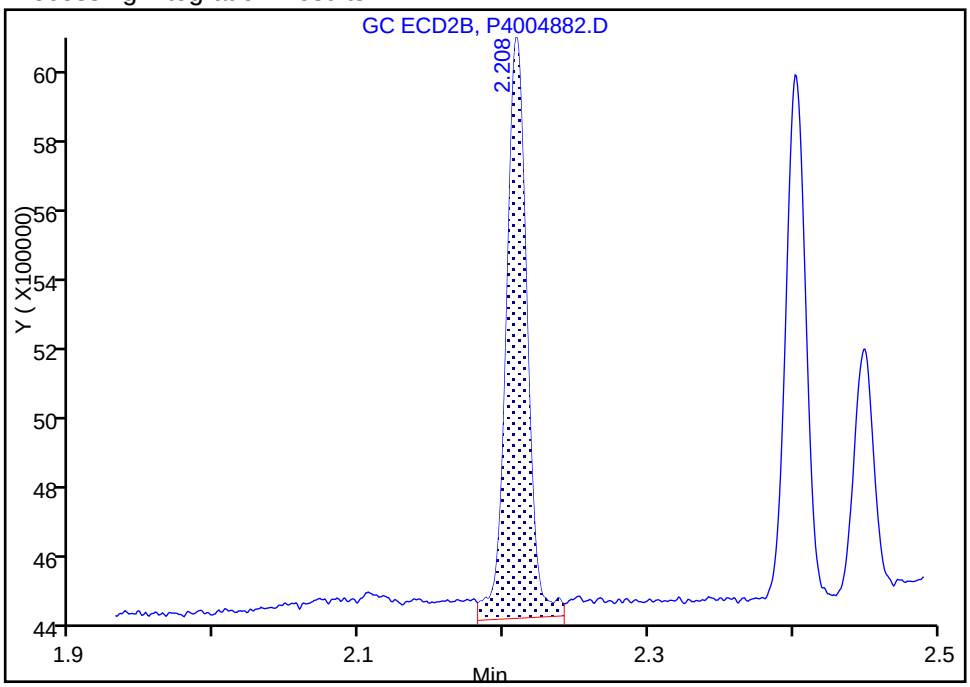
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

15 alpha-BHC, CAS: 319-84-6

Signal: 2

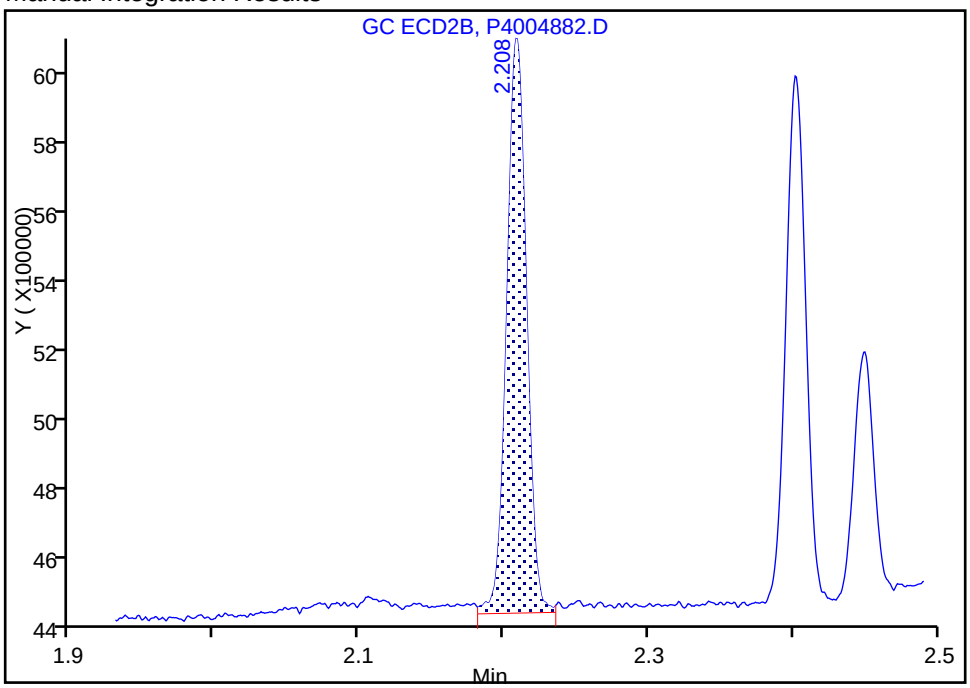
Processing Integration Results

RT: 2.21
Area: 1543808
Amount: 2.626825
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 1445319
Amount: 2.492662
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:10:55

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

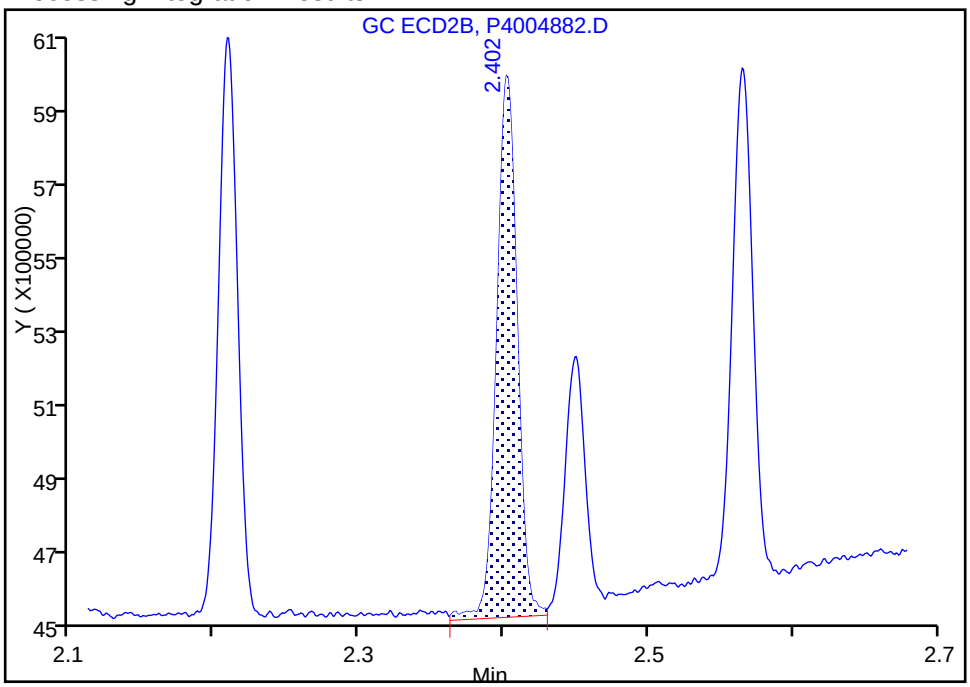
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 2

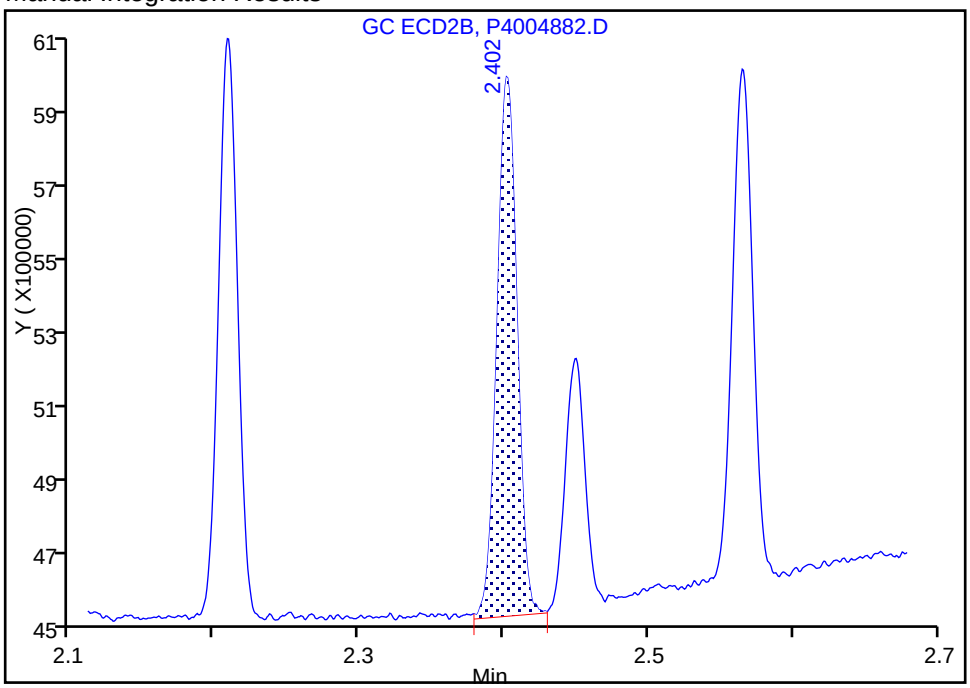
Processing Integration Results

RT: 2.40
Area: 1397396
Amount: 2.619960
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 1348560
Amount: 2.547056
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:20
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

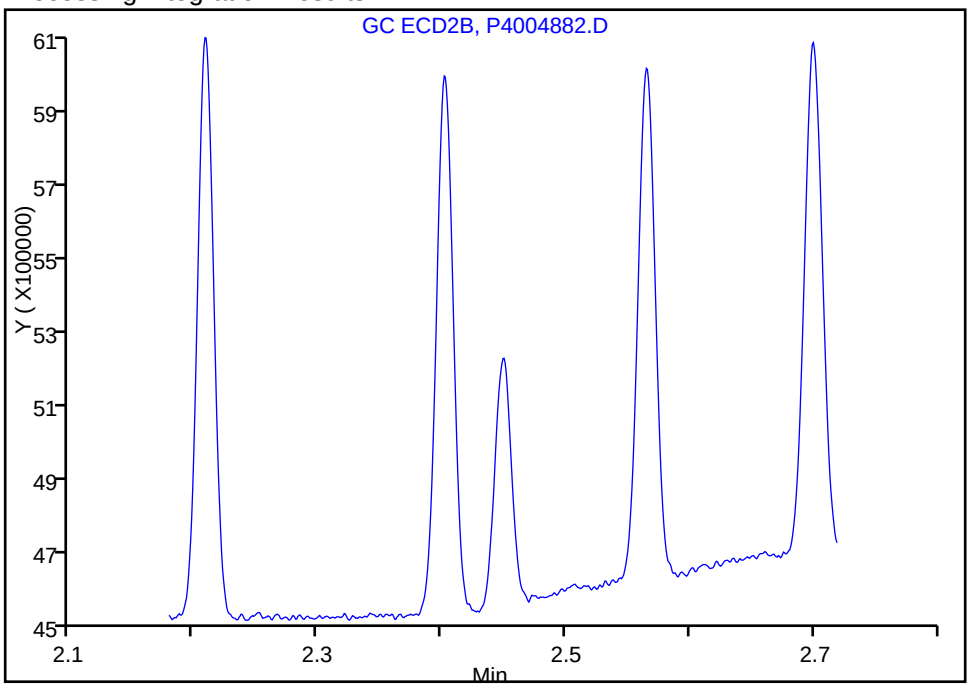
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

6 beta-BHC, CAS: 319-85-7

Signal: 2

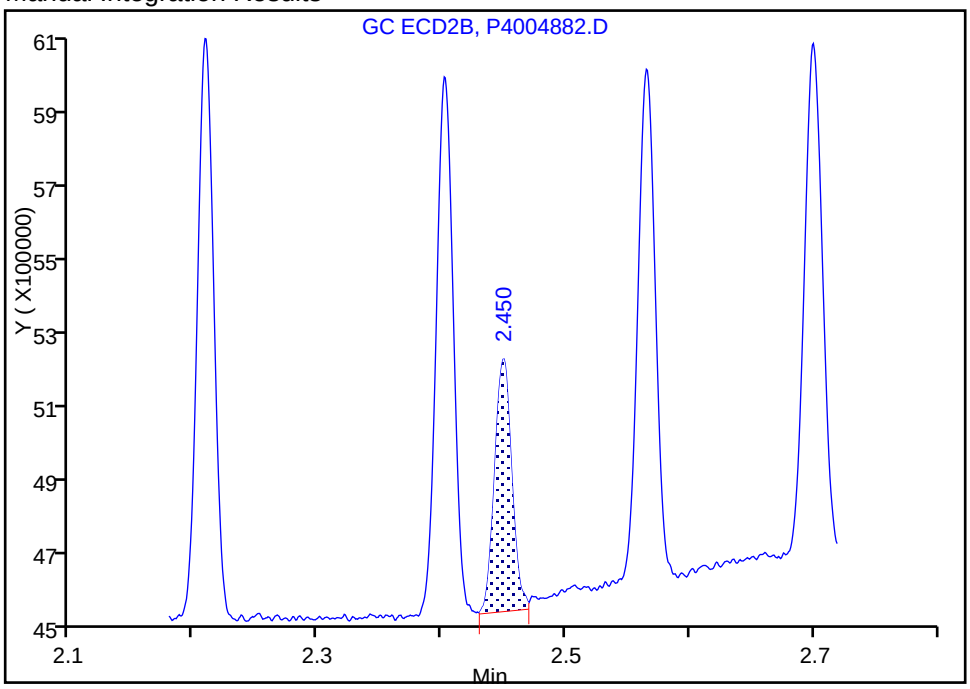
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 630309
Amount: 2.747254
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:44
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

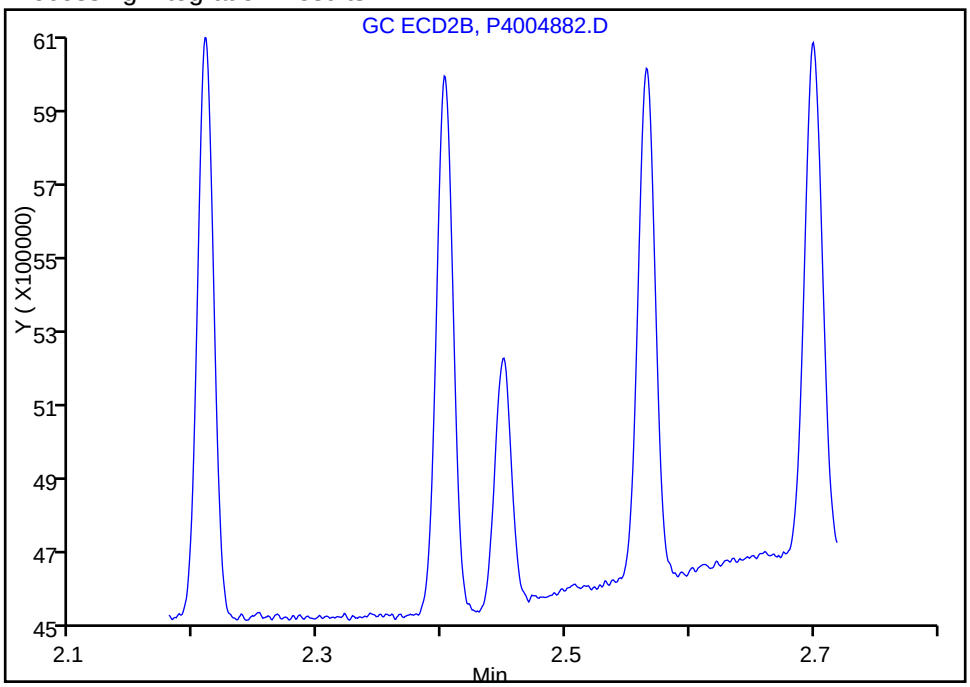
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

6 beta-BHC, CAS: 319-85-7

Signal: 2

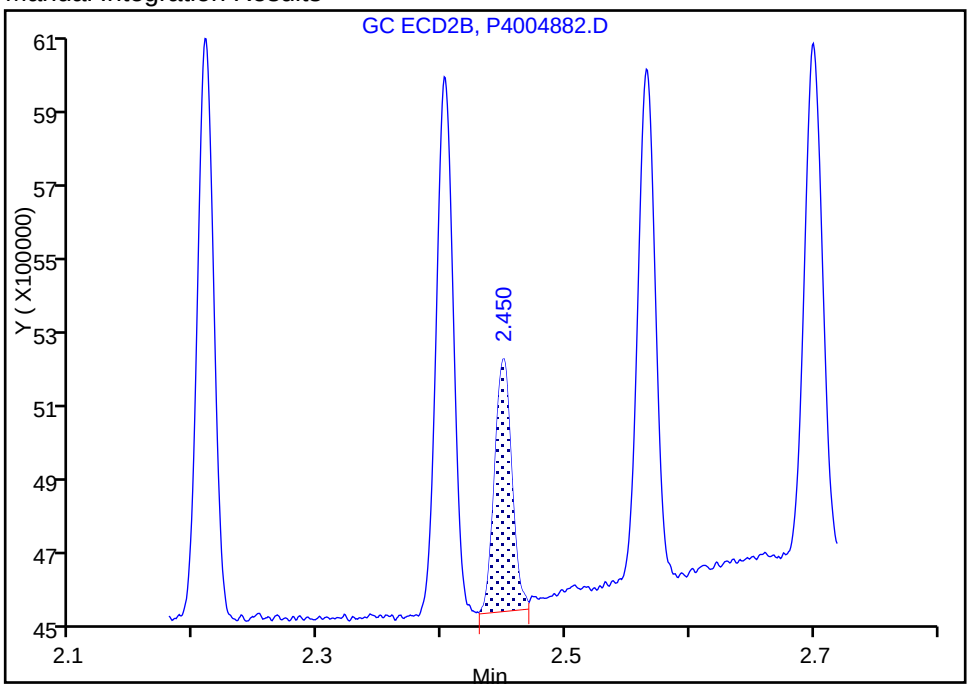
Processing Integration Results

Not Detected
Expected RT: 2.45



Manual Integration Results

RT: 2.45
Area: 630309
Amount: 2.747254
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:20
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

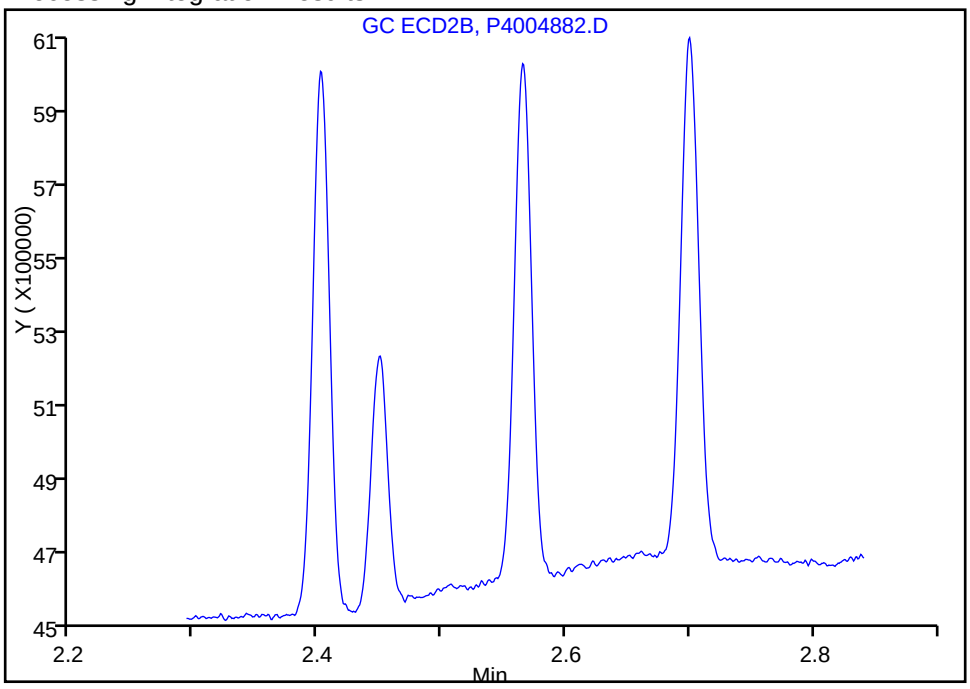
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

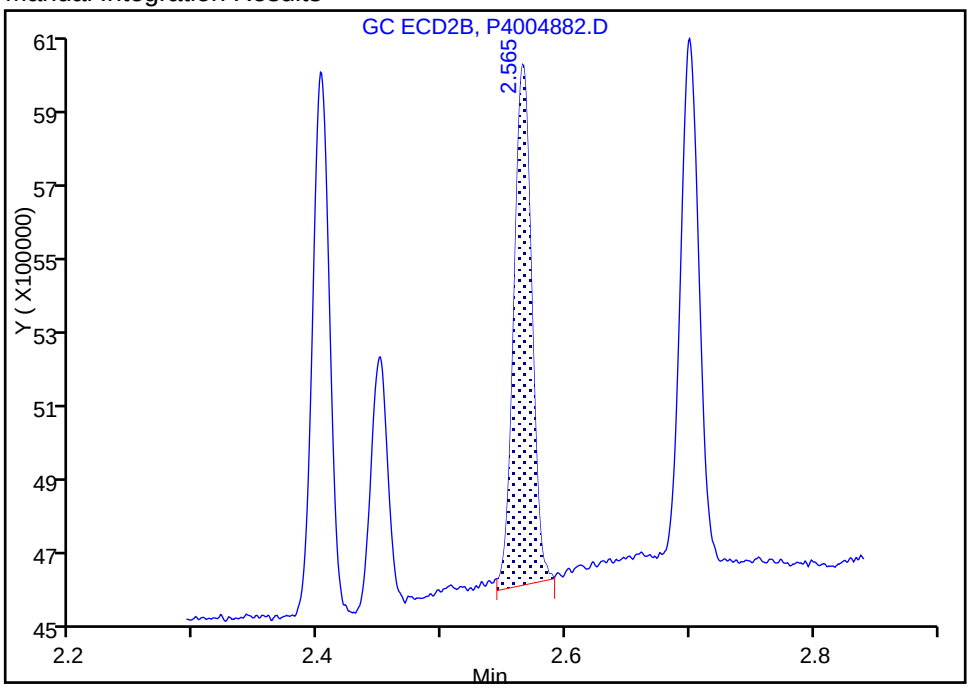
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 1332138
Amount: 2.519682
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:59
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

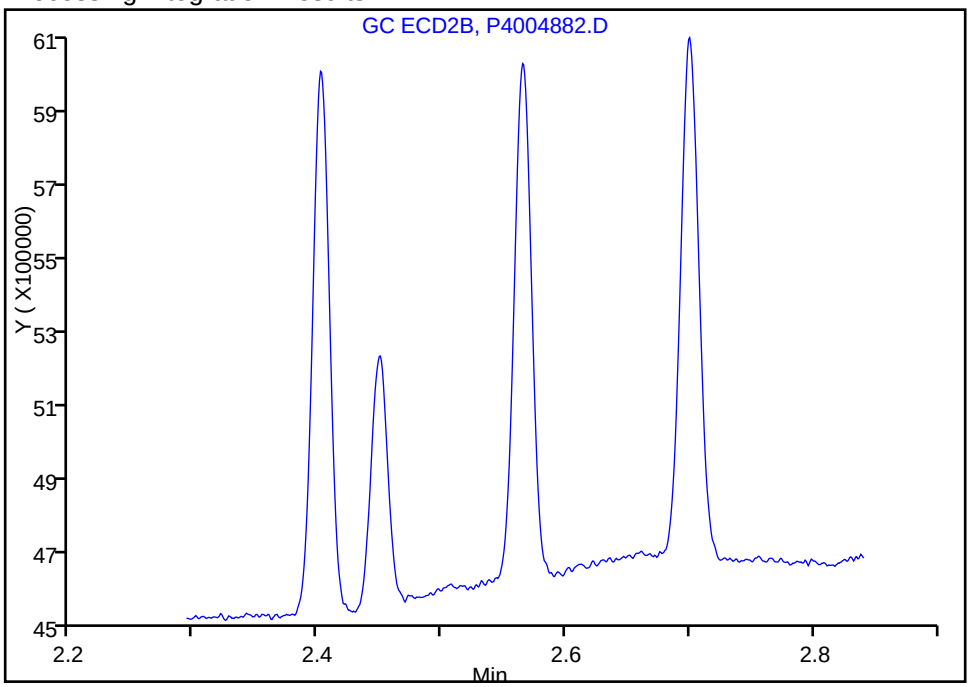
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

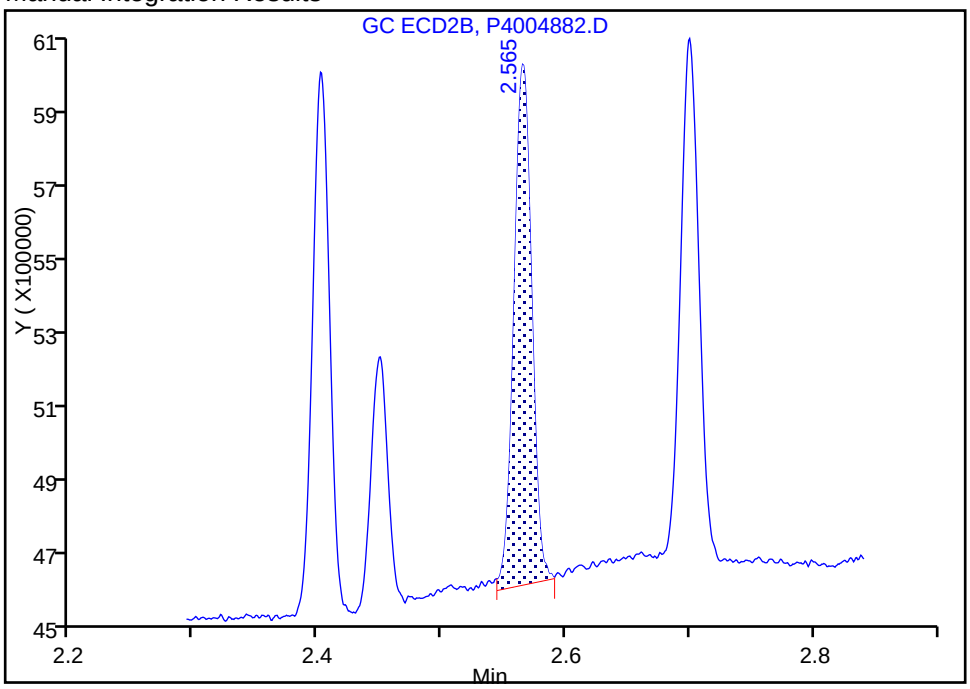
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 1332138
Amount: 2.519682
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:22
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

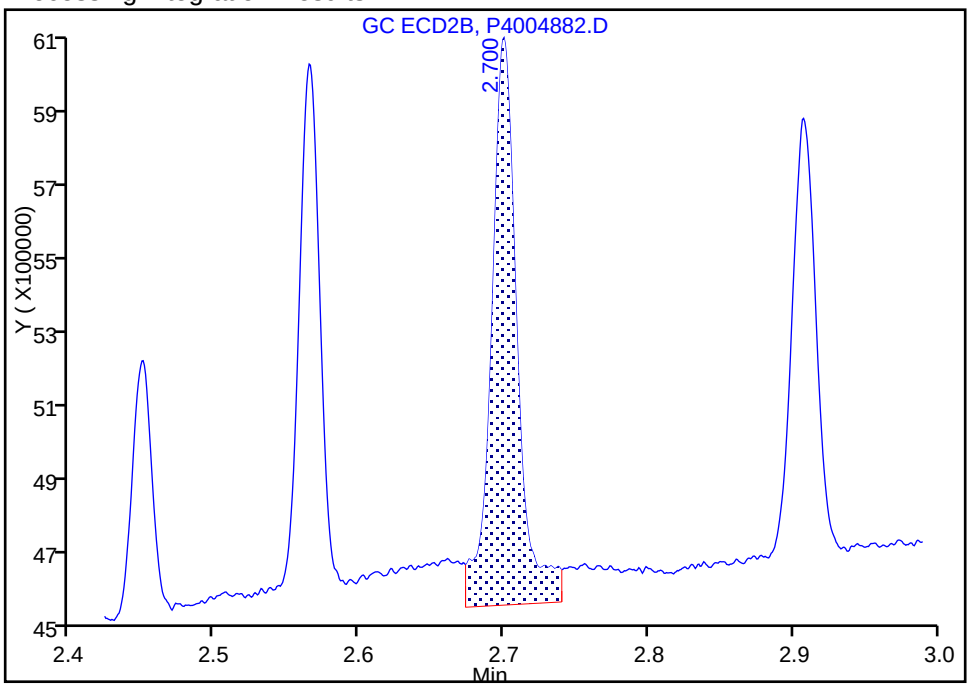
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

18 Heptachlor, CAS: 76-44-8

Signal: 2

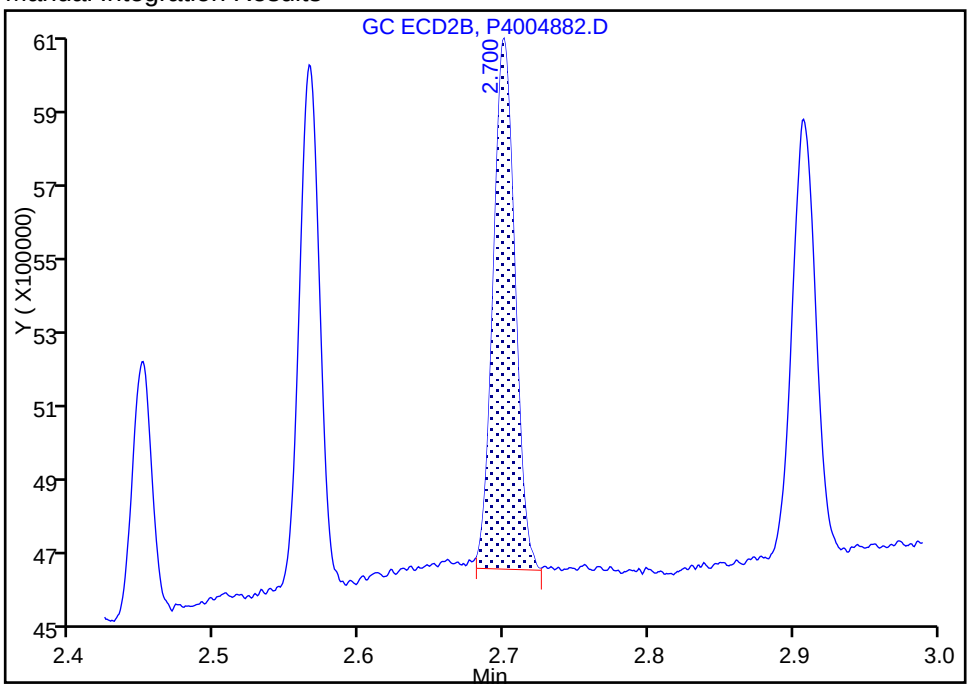
Processing Integration Results

RT: 2.70
Area: 1773195
Amount: 3.225642
Amount Units: ug/l



Manual Integration Results

RT: 2.70
Area: 1395704
Amount: 2.686530
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:29

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

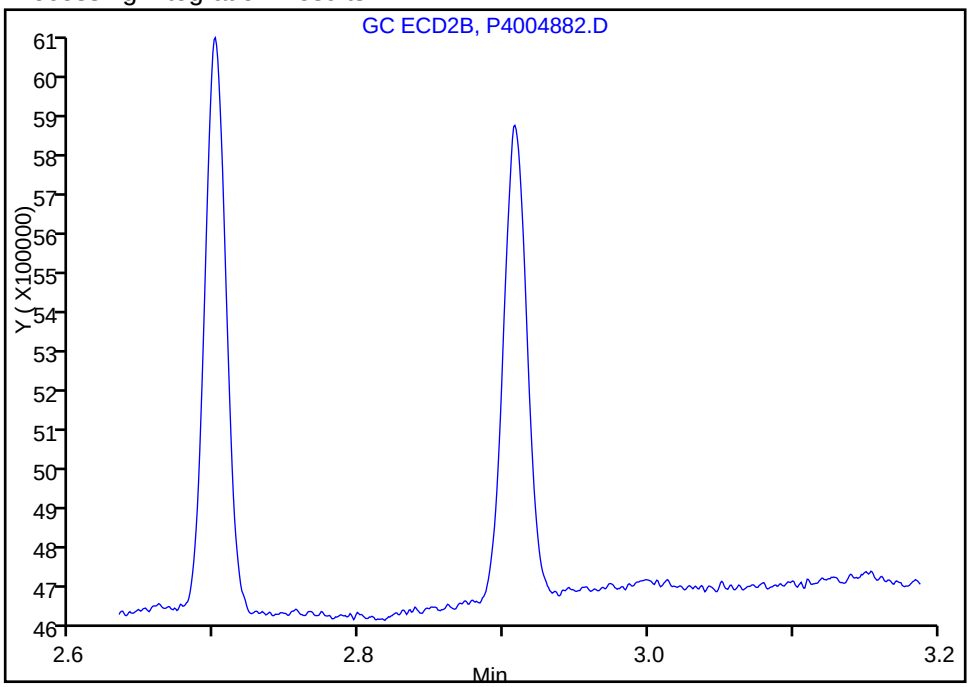
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

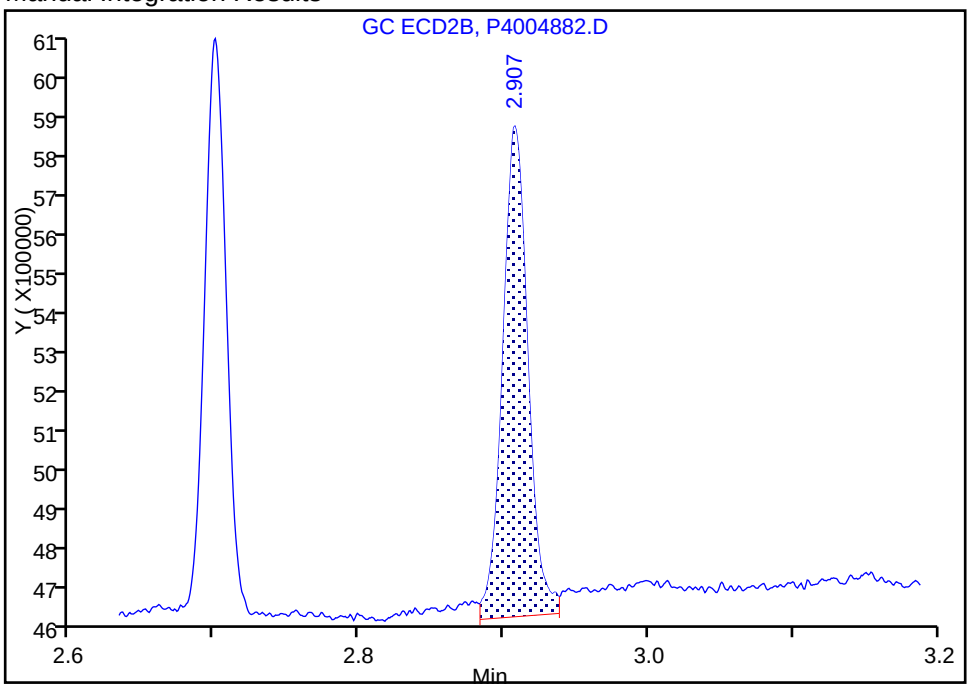
Not Detected
Expected RT: 2.91

Processing Integration Results



Manual Integration Results

RT: 2.91
Area: 1383561
Amount: 2.877025
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:22
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

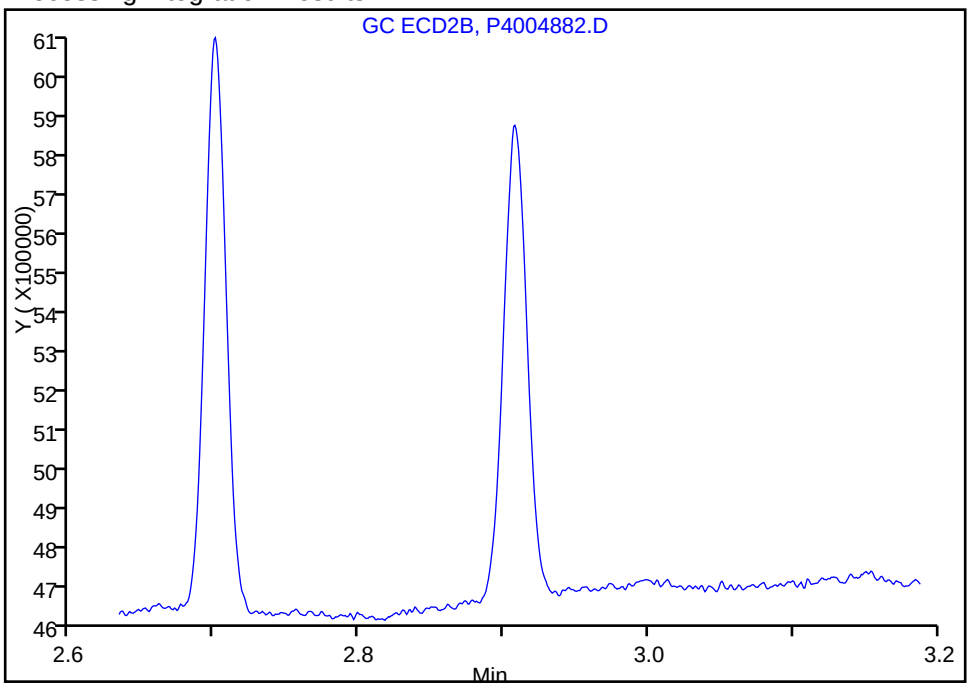
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

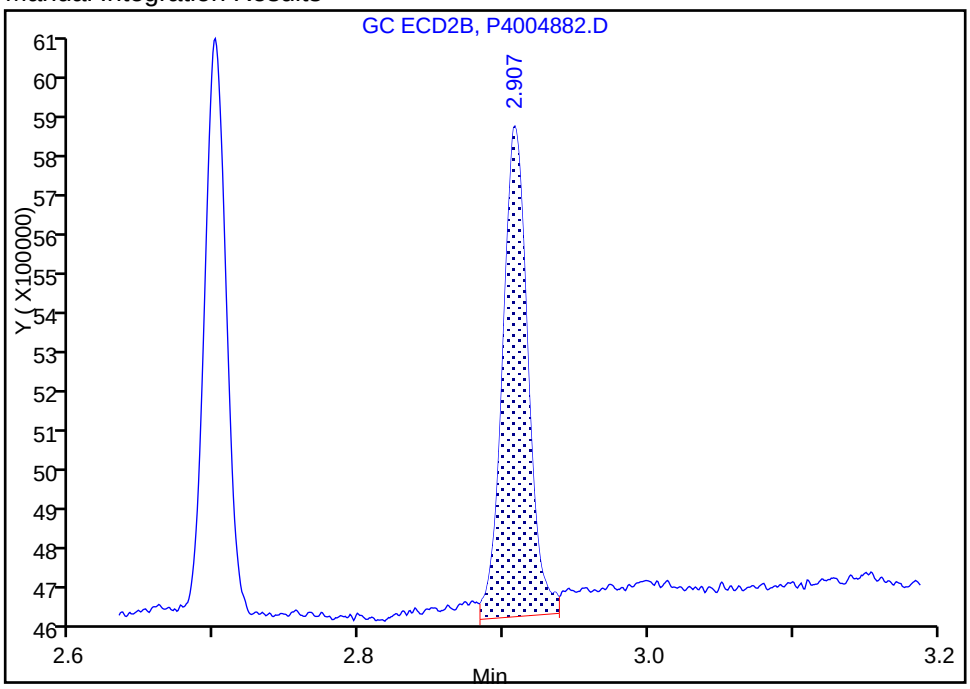
Not Detected
Expected RT: 2.91

Processing Integration Results



Manual Integration Results

RT: 2.91
Area: 1383561
Amount: 2.877025
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:11:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

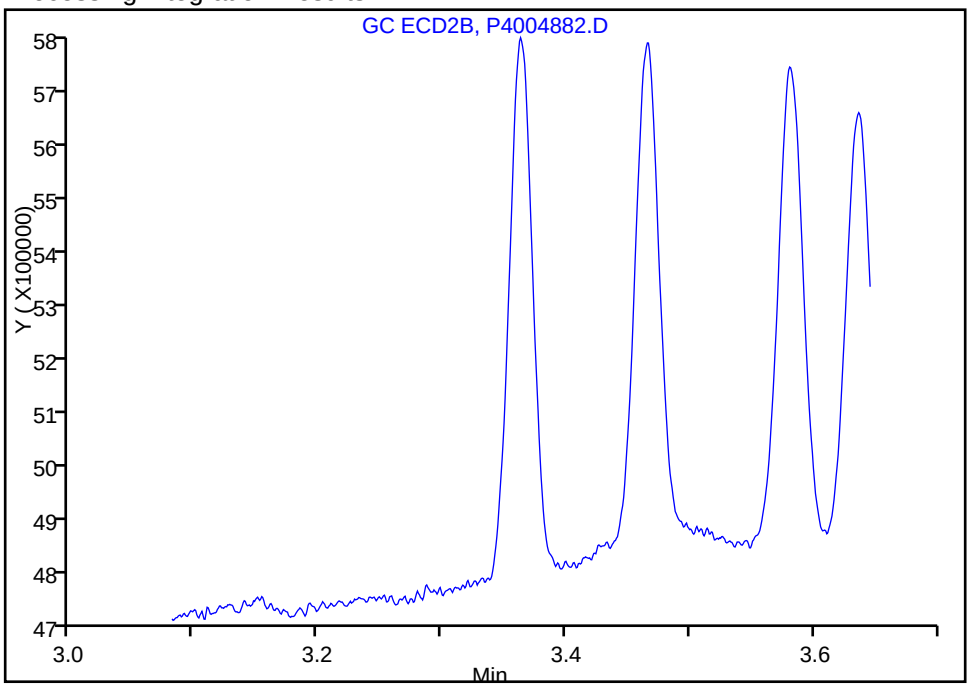
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

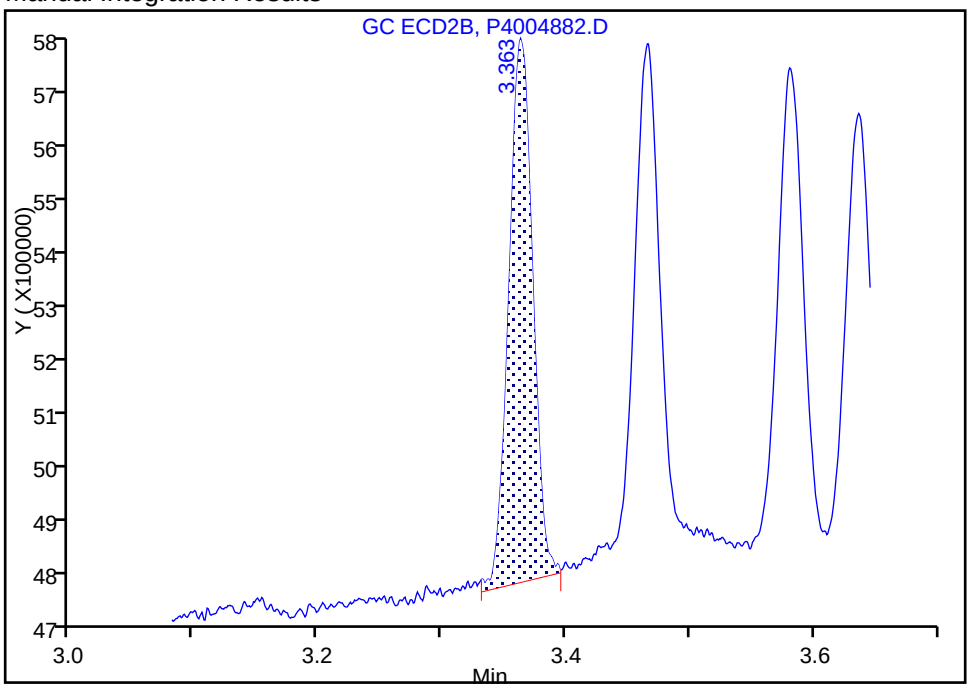
Not Detected
Expected RT: 3.36

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 1270694
Amount: 2.802367
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:36
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

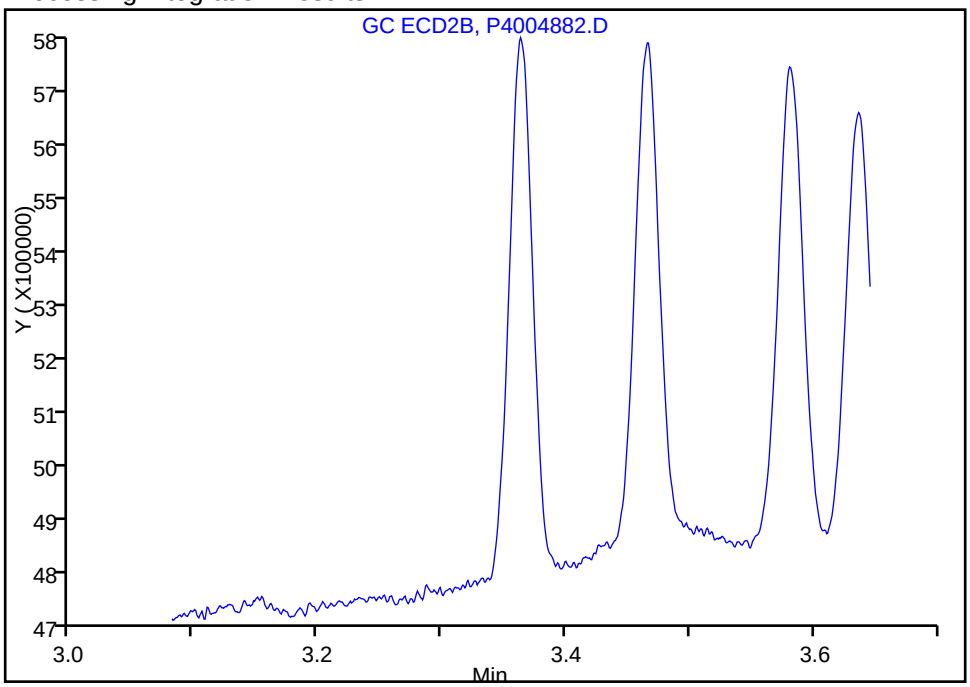
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

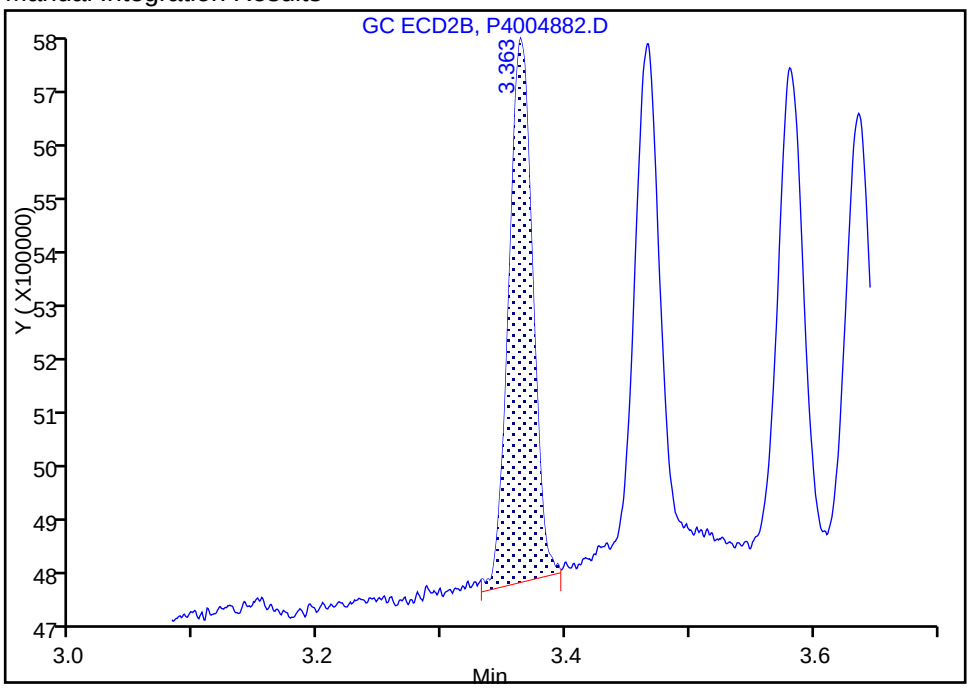
Processing Integration Results

Not Detected
Expected RT: 3.36



Manual Integration Results

RT: 3.36
Area: 1270694
Amount: 2.802367
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:08
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

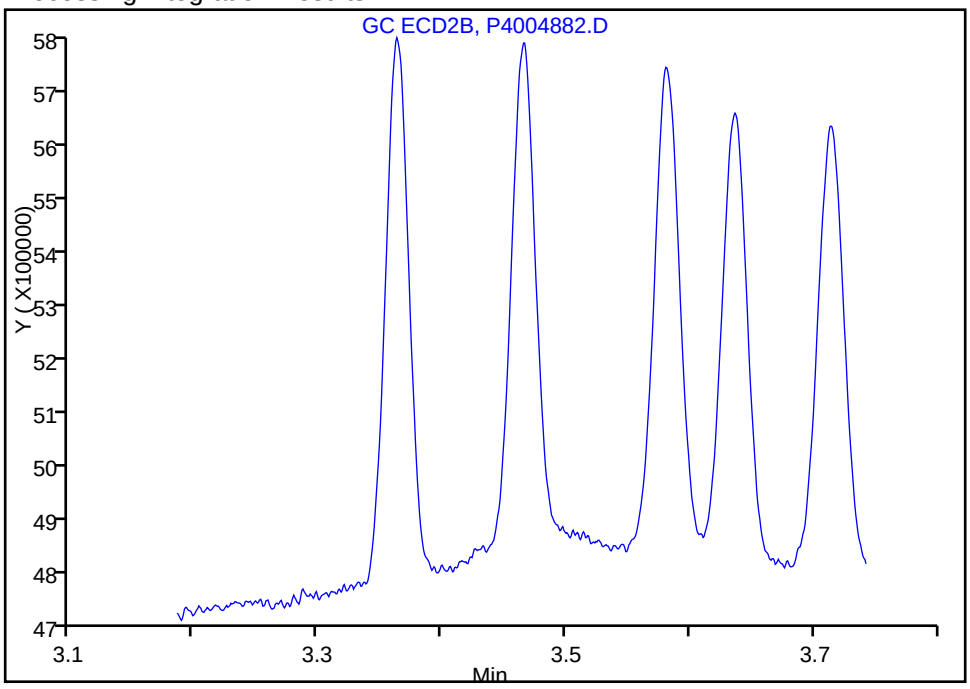
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

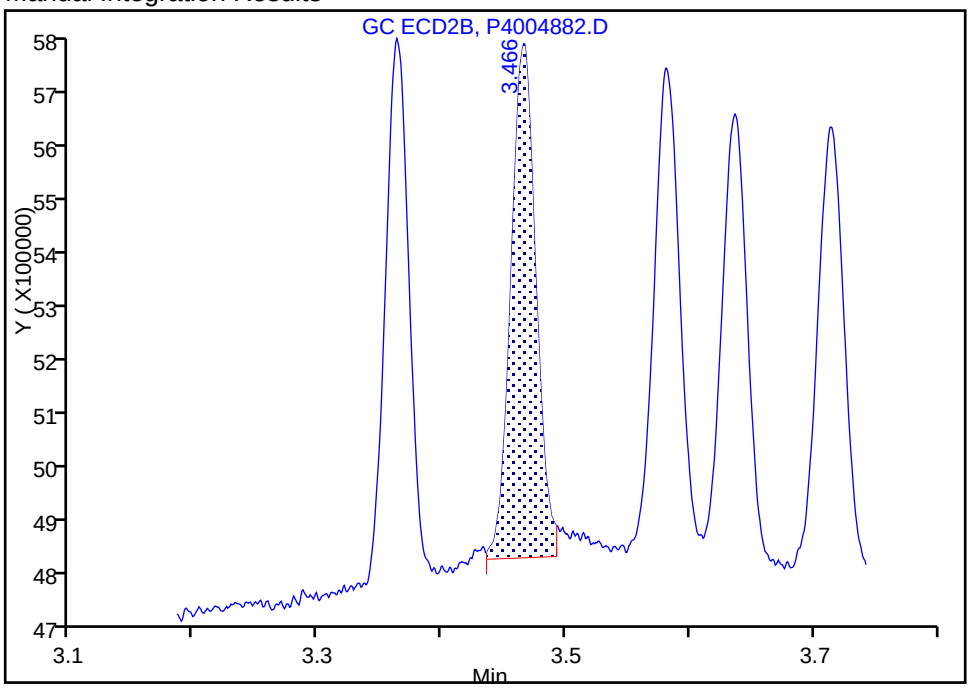
Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 1245826
Amount: 2.764335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:50
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

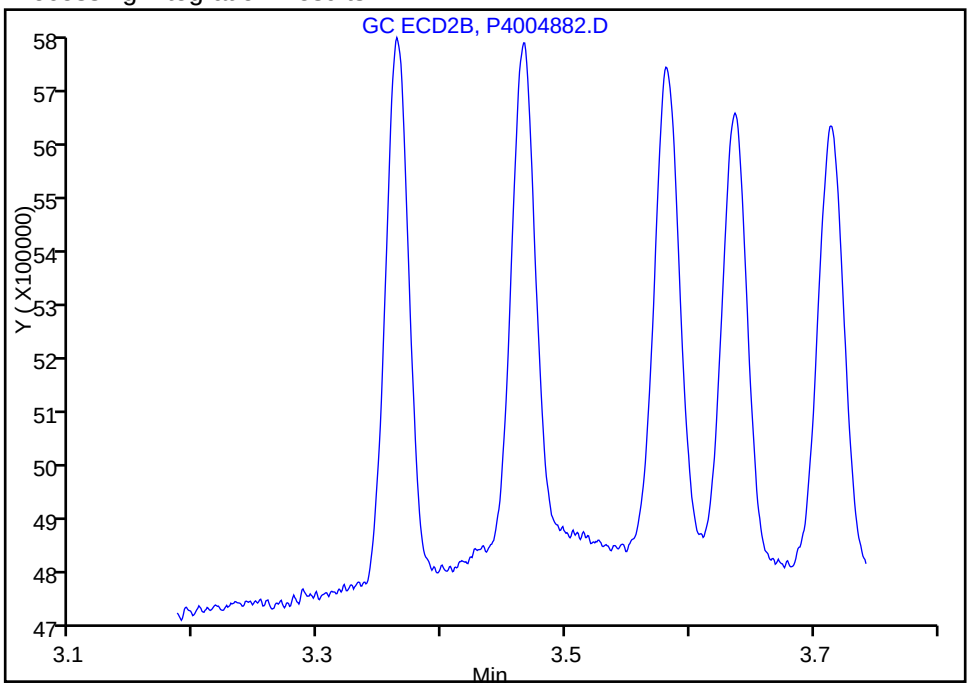
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

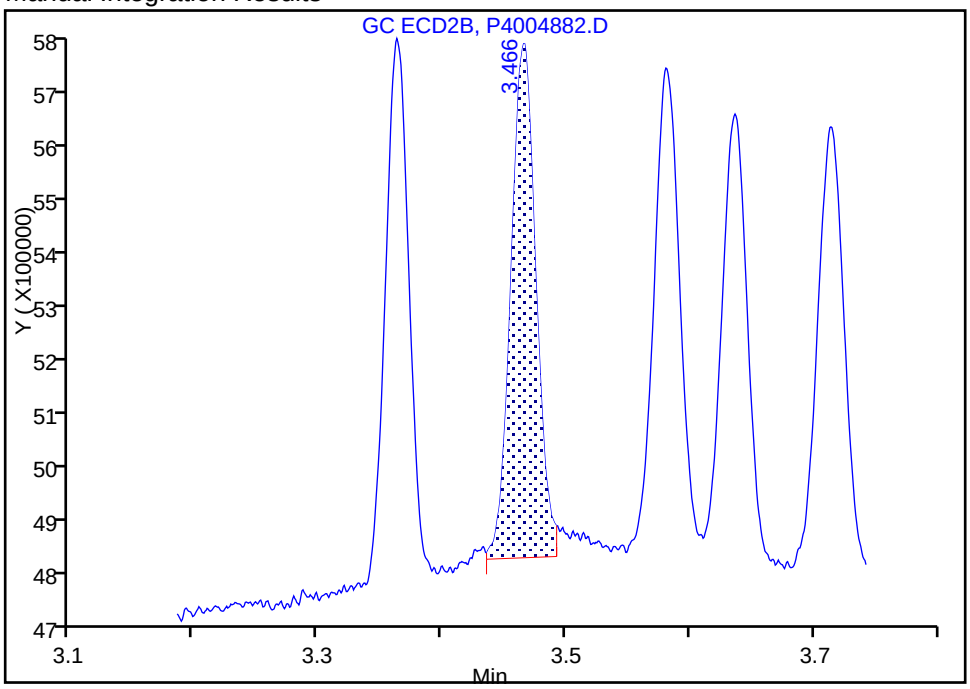
Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 1245826
Amount: 2.764335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

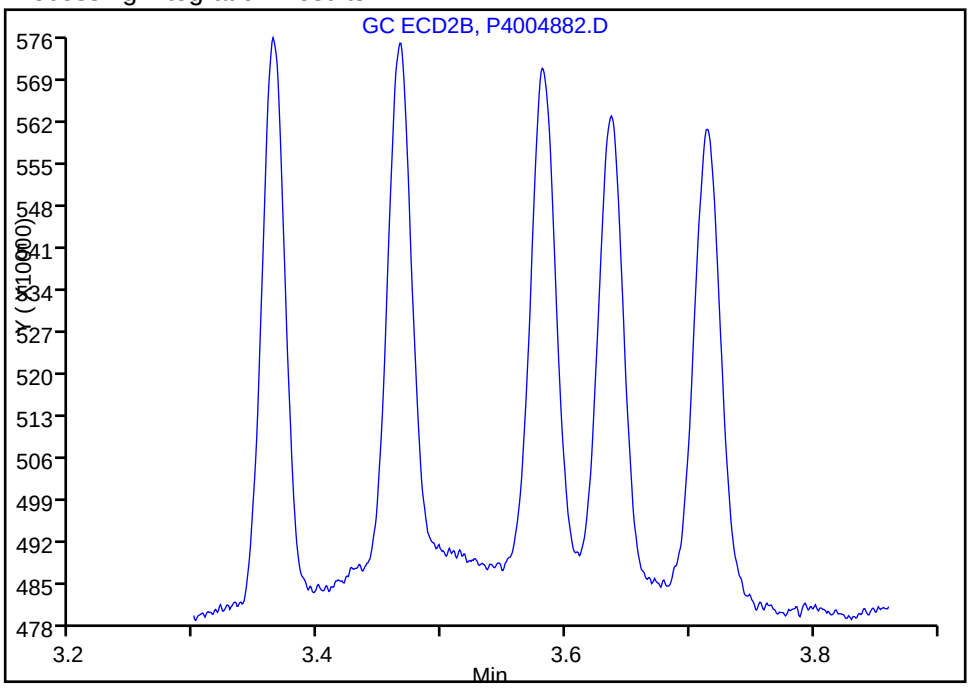
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

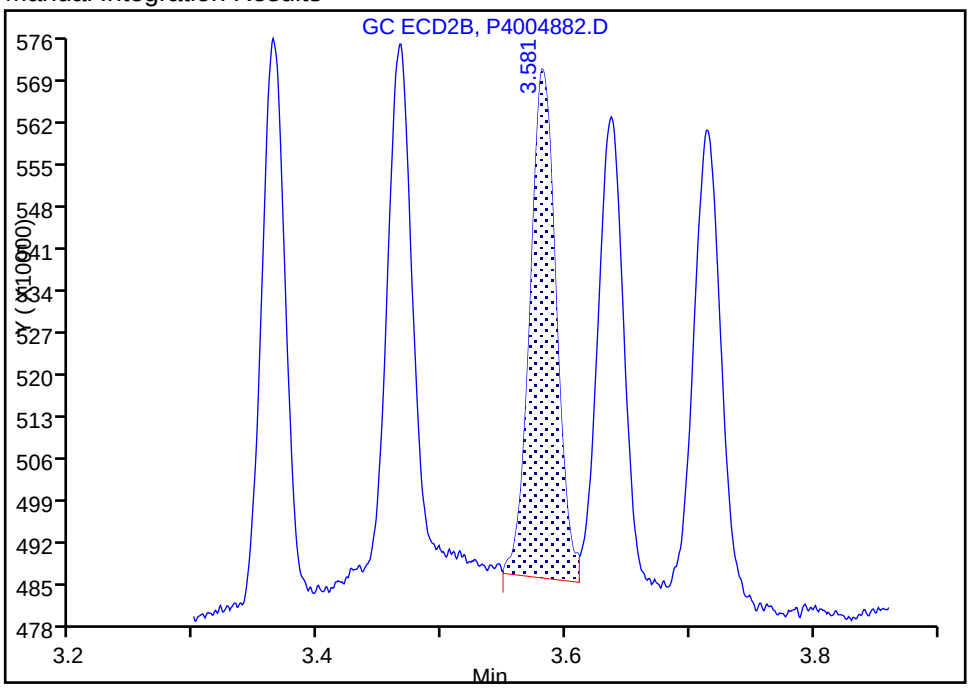
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 1245737
Amount: 2.843012
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:02
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

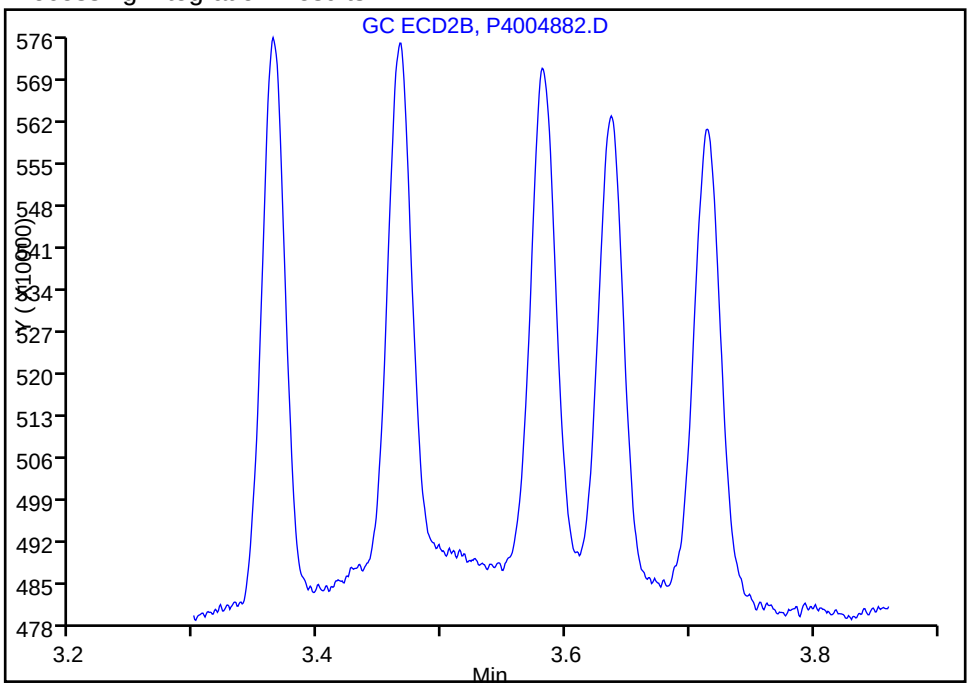
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

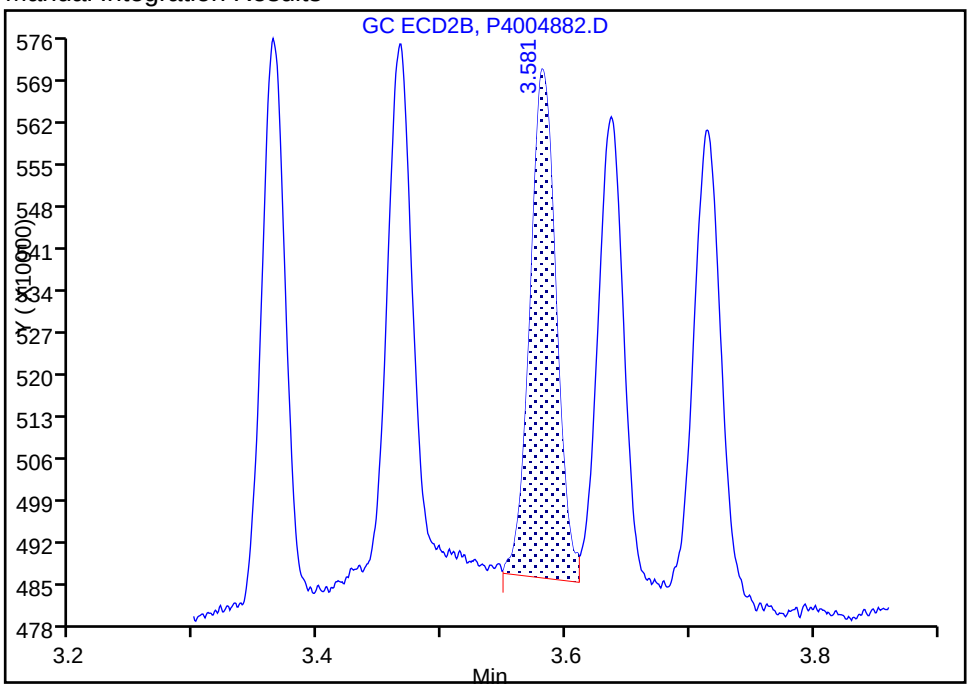
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 1245737
Amount: 2.843012
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:19
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

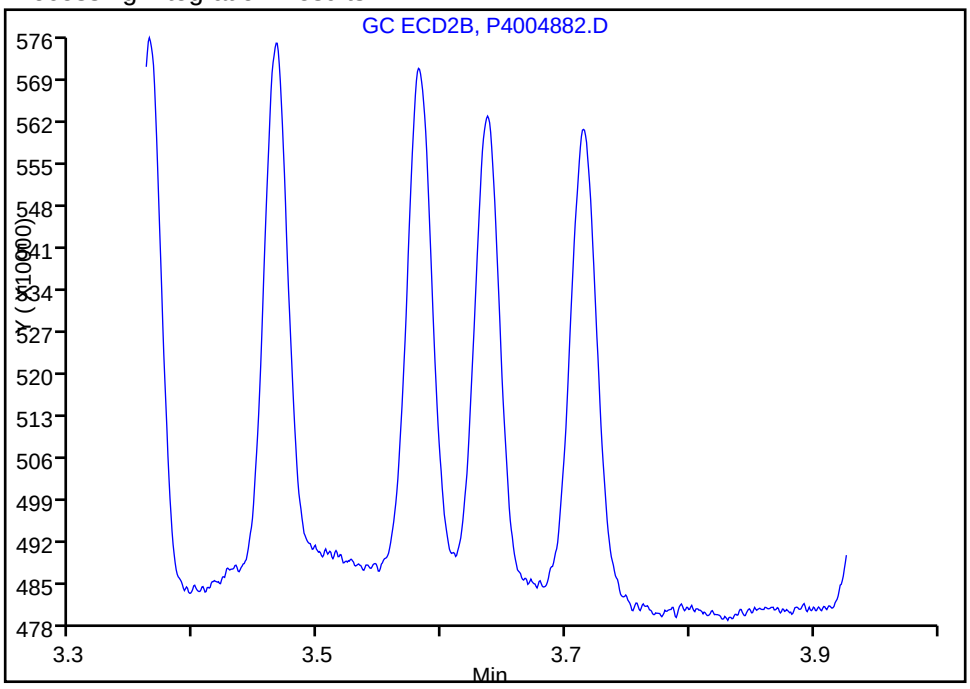
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

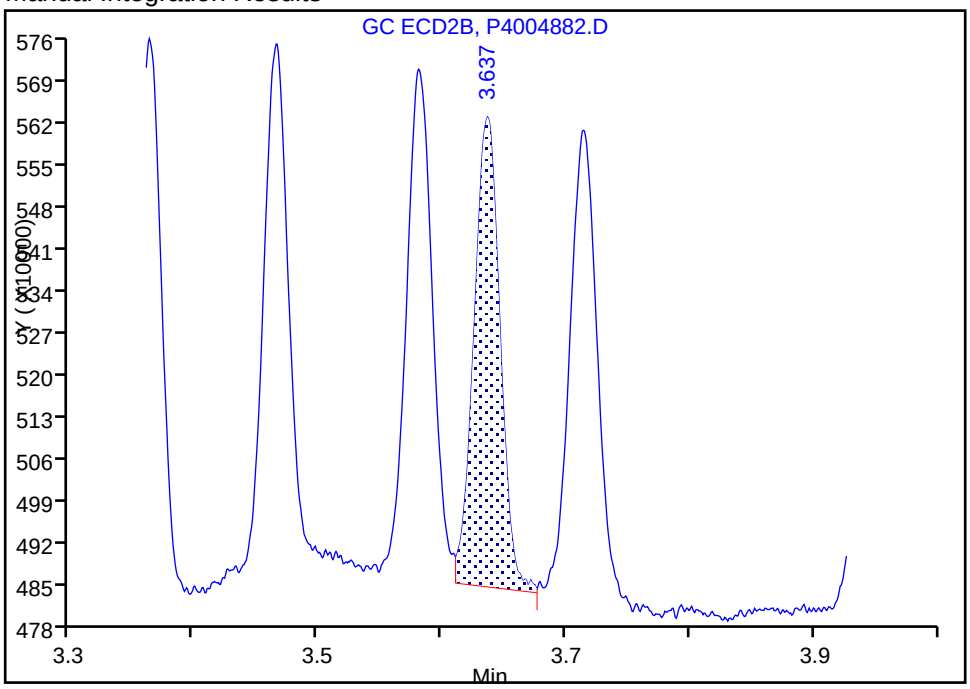
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 1142514
Amount: 2.627090
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:34
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

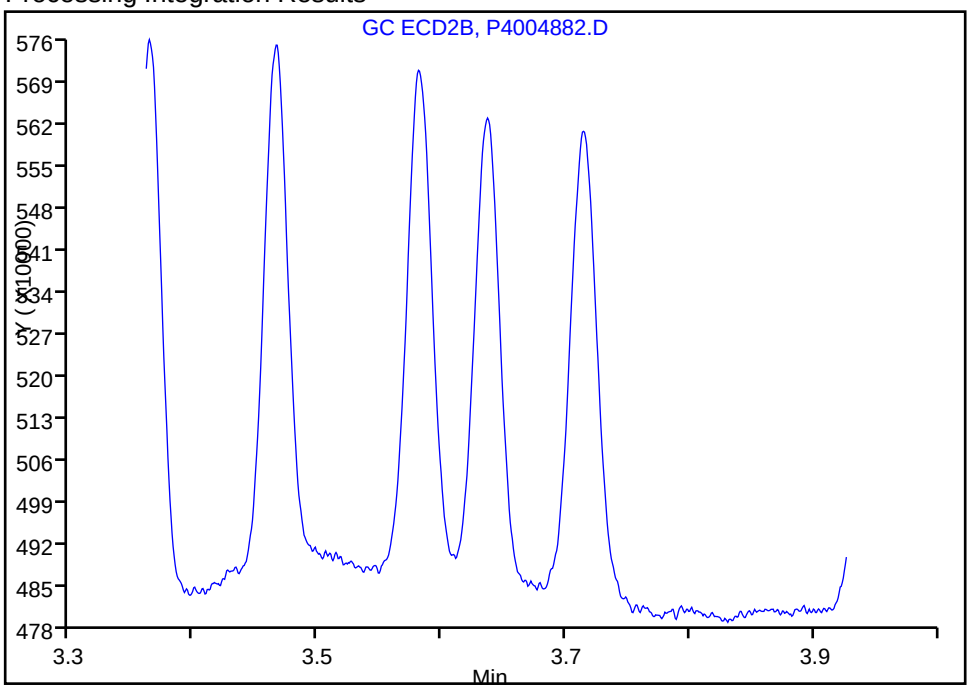
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL1		
Client ID:			
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

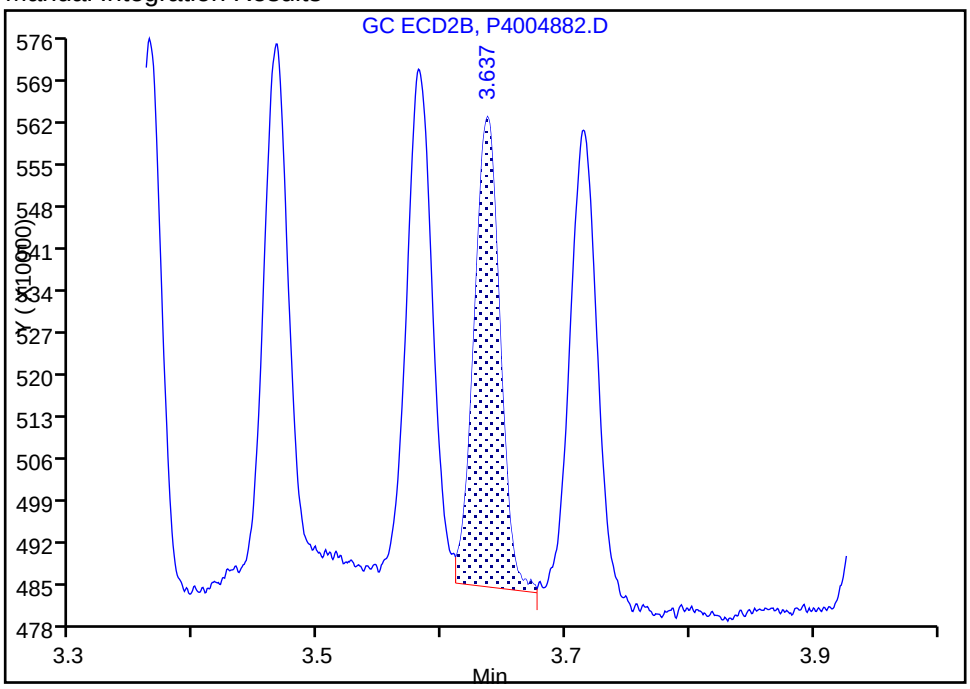
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 1142514
Amount: 2.627090
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:19
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

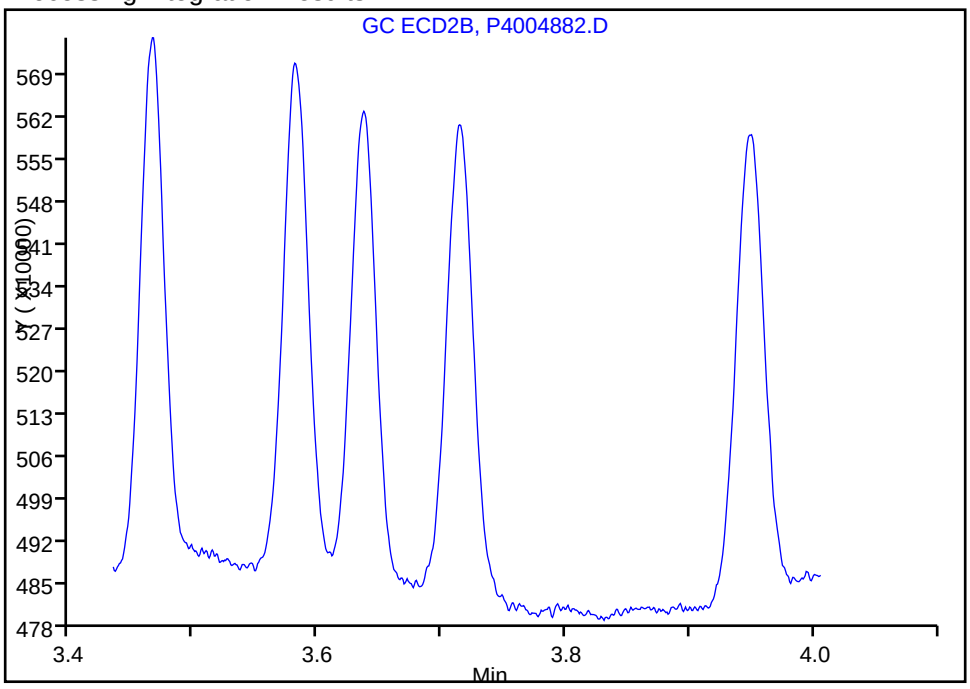
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

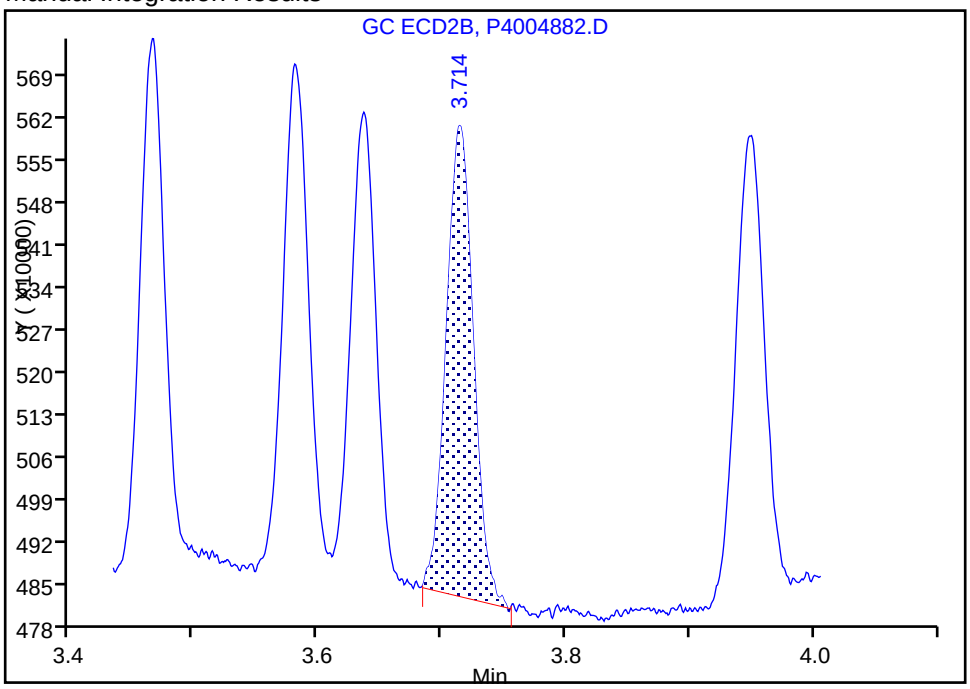
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 1182813
Amount: 2.765760
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

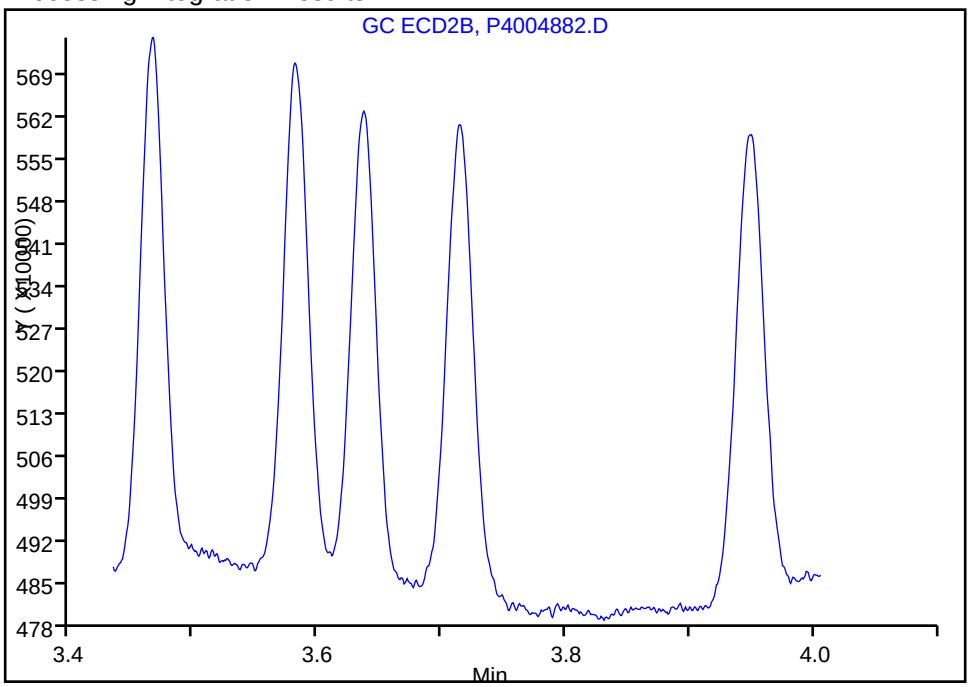
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL1		
Client ID:			
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

7 Endosulfan I, CAS: 959-98-8

Signal: 2

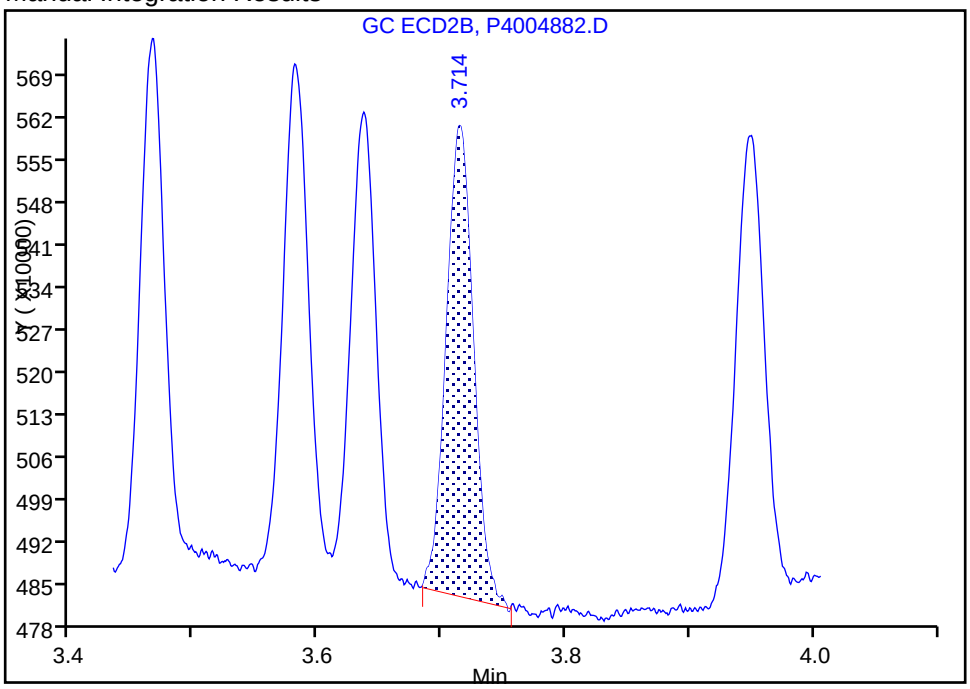
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 1182813
Amount: 2.765760
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:11:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

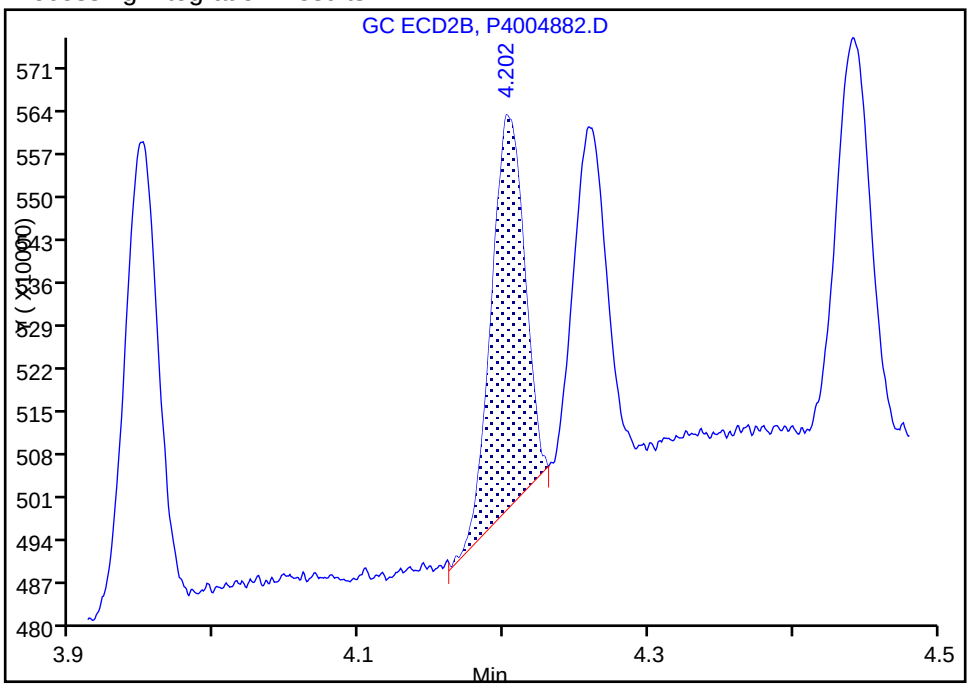
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

20 Endrin, CAS: 72-20-8

Signal: 2

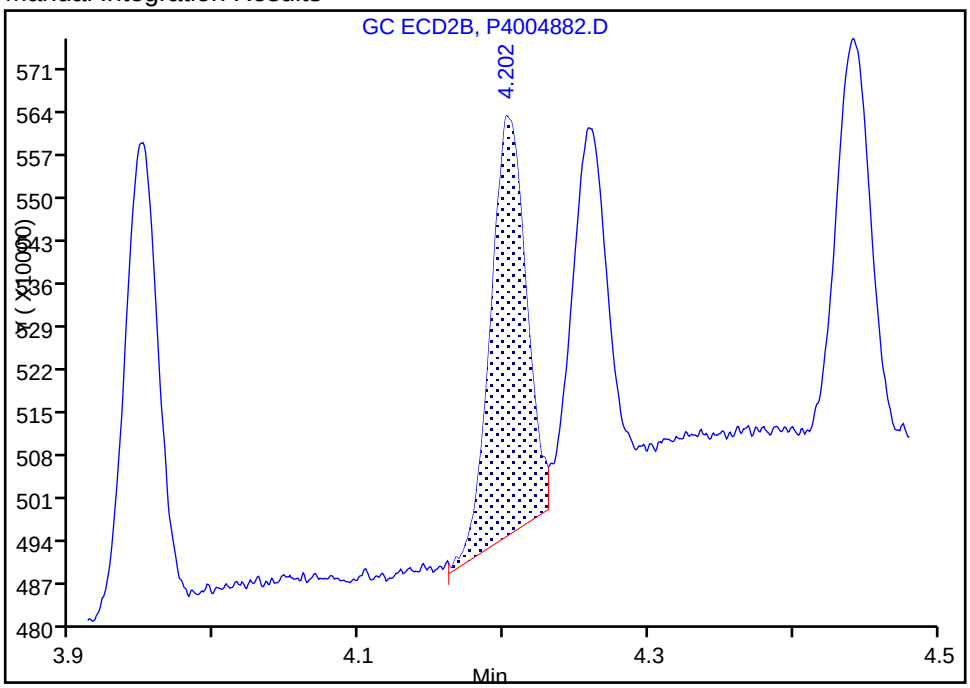
Processing Integration Results

RT: 4.20
Area: 1026884
Amount: 2.416207
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 1176601
Amount: 2.692600
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:56
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

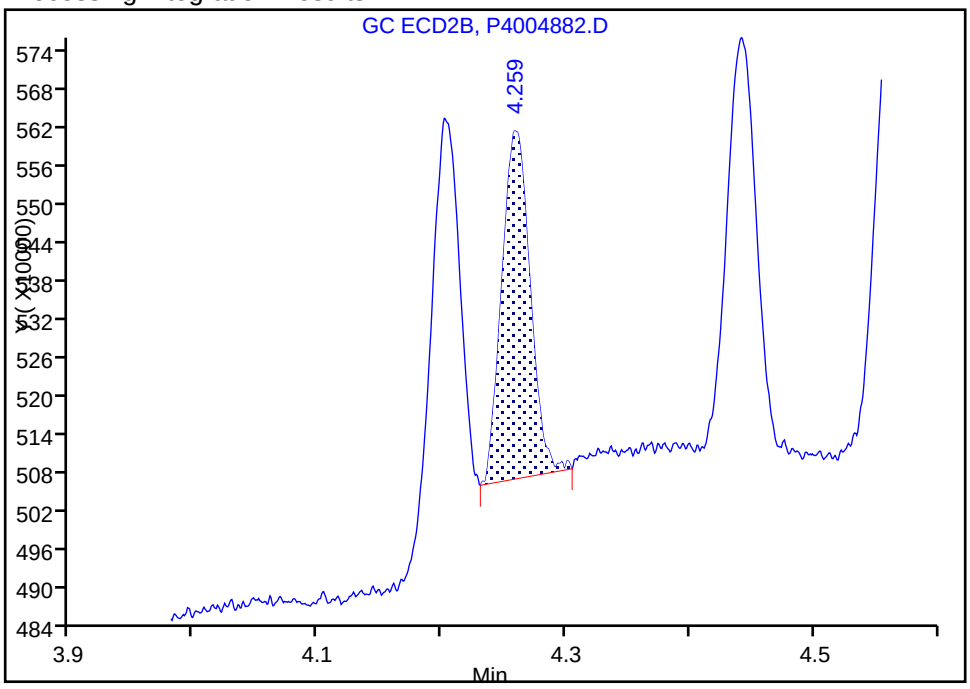
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

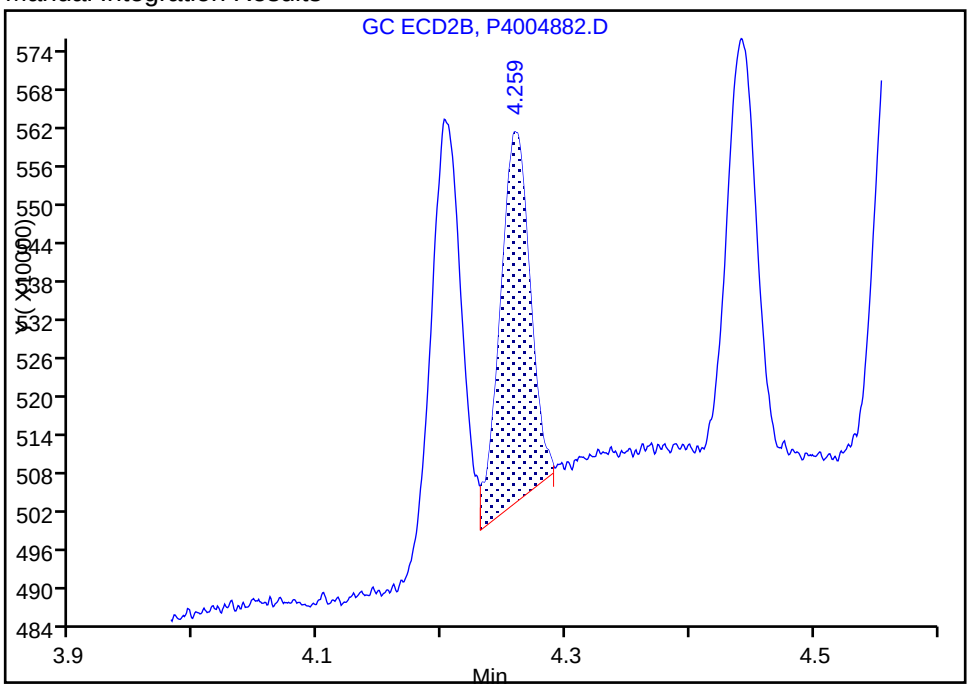
Processing Integration Results

RT: 4.26
Area: 863139
Amount: 2.331443
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 977082
Amount: 2.575795
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:56
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

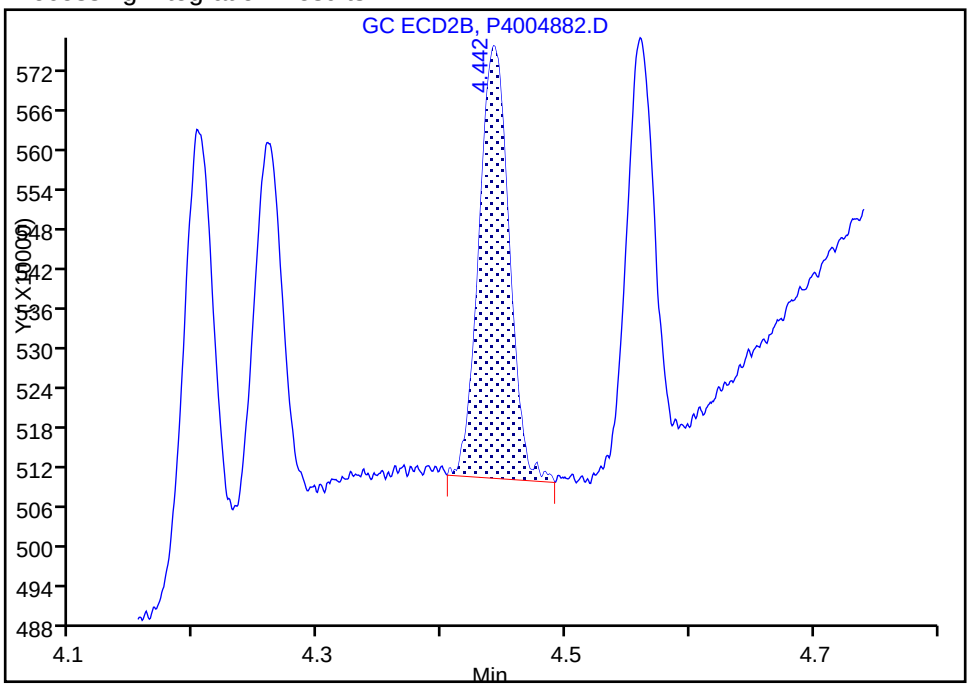
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

11 Endosulfan II, CAS: 33213-65-9

Signal: 2

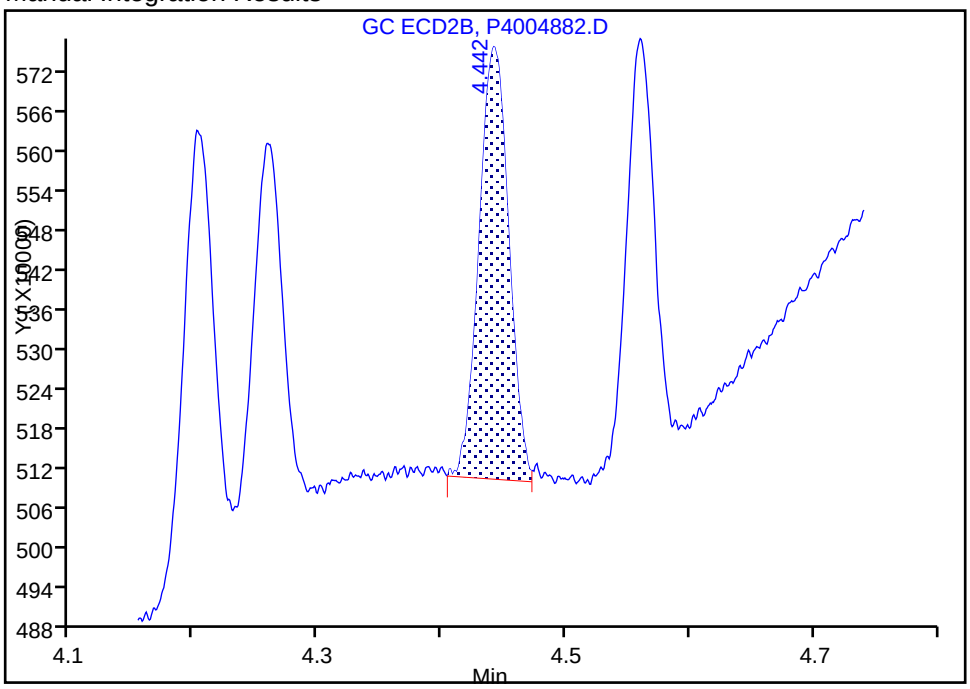
Processing Integration Results

RT: 4.44
Area: 1101549
Amount: 2.661453
Amount Units: ug/l



Manual Integration Results

RT: 4.44
Area: 1086632
Amount: 2.633003
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:51
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

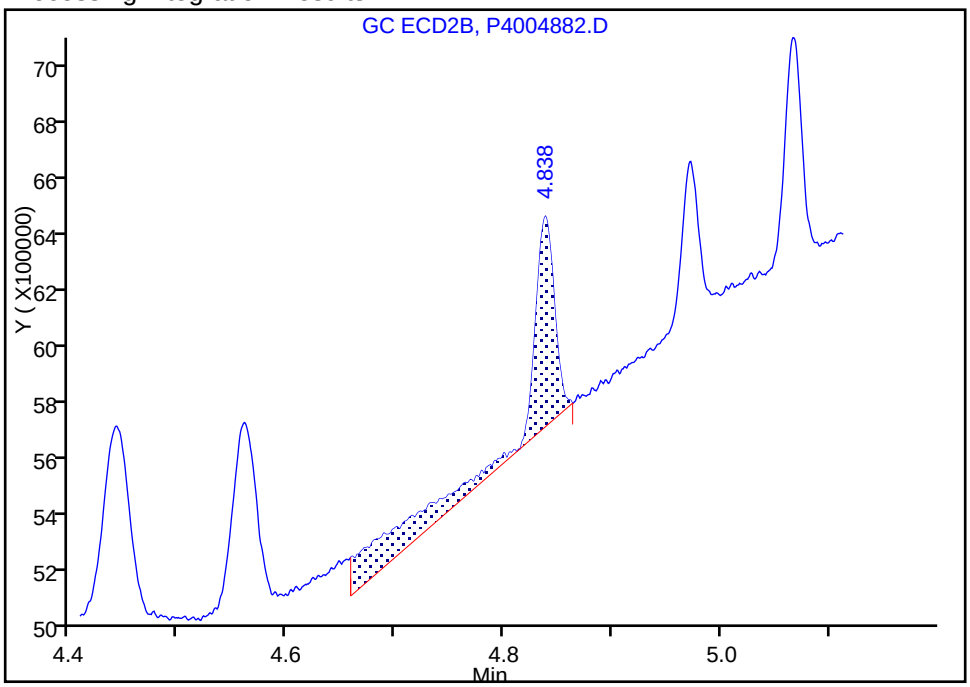
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 2

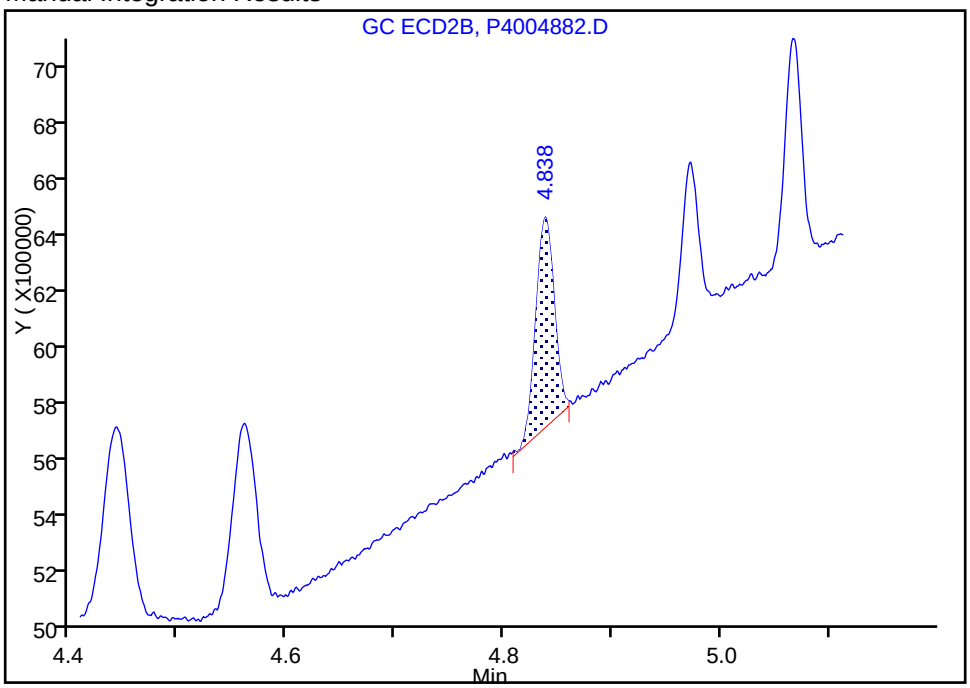
Processing Integration Results

RT: 4.84
Area: 1481231
Amount: 1.302458
Amount Units: ug/l



Manual Integration Results

RT: 4.84
Area: 848959
Amount: 2.466237
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:12:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

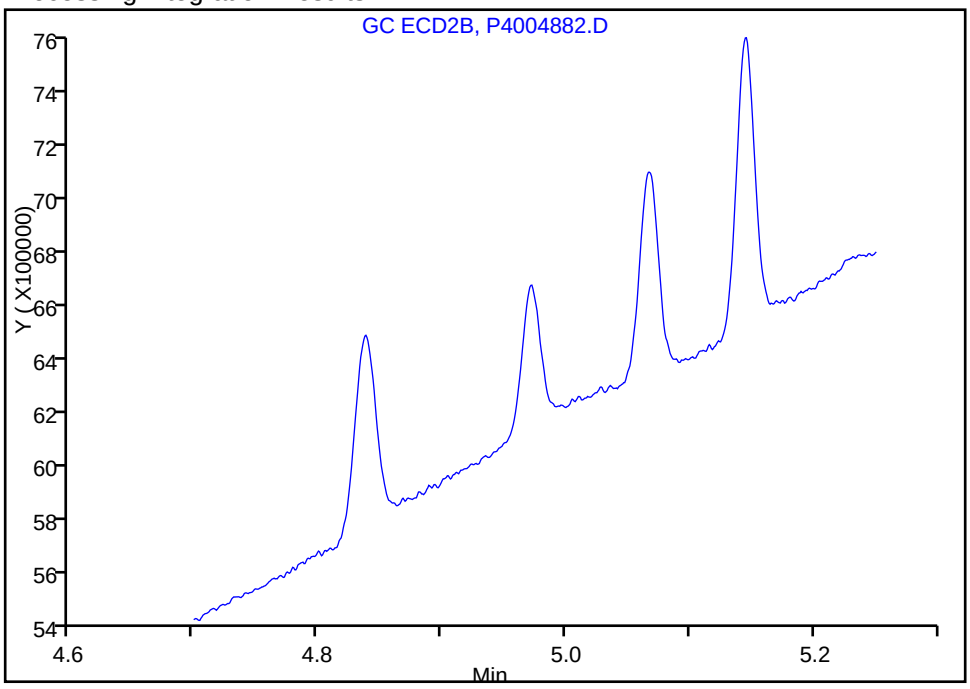
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

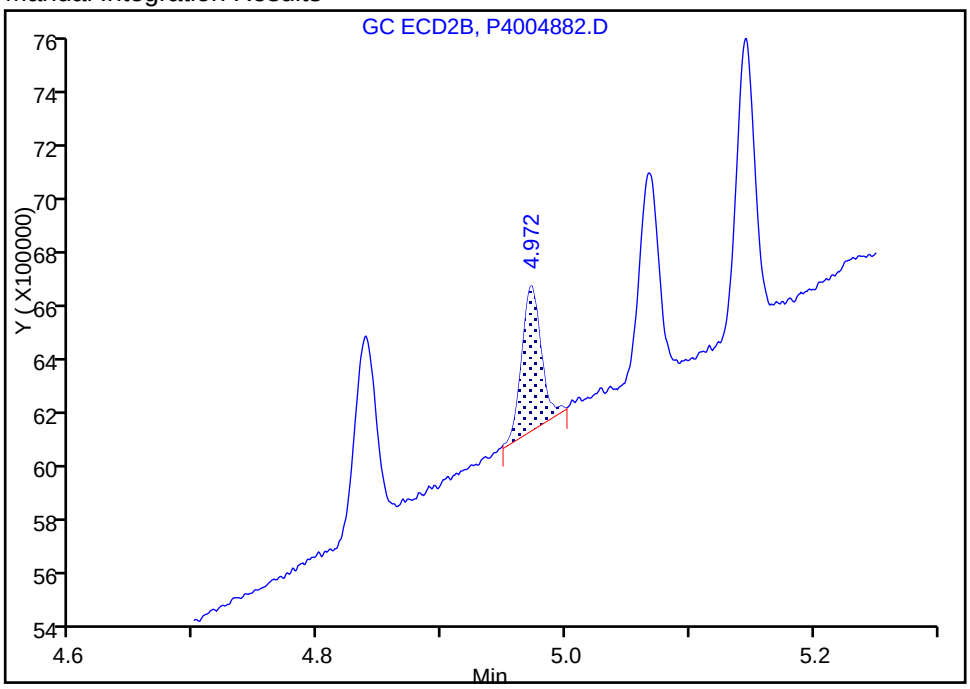
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 585719
Amount: 2.657556
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

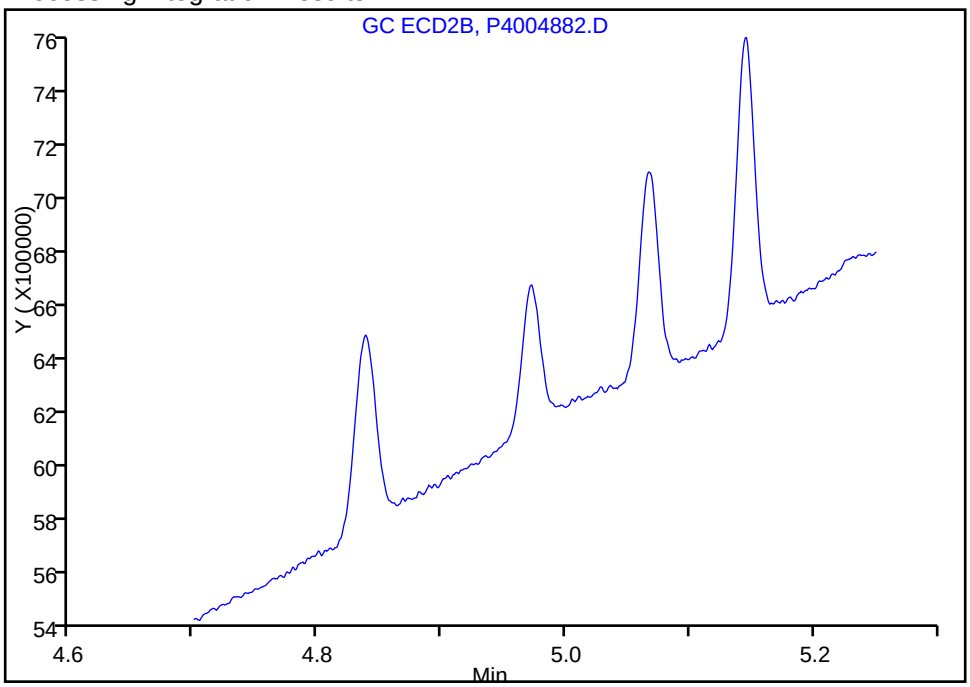
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

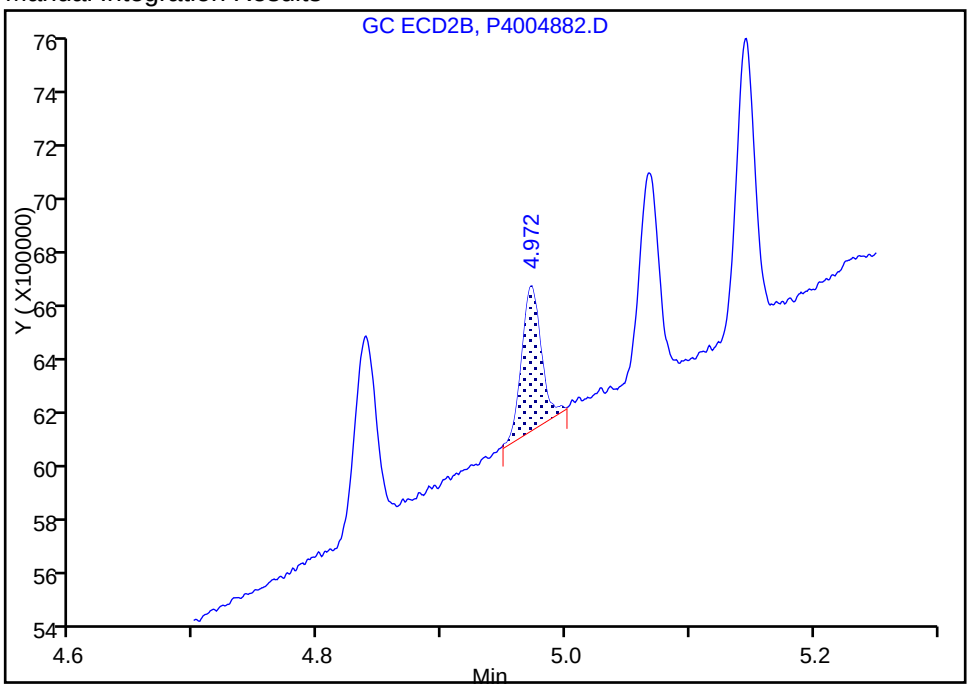
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 585719
Amount: 2.657556
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:13
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

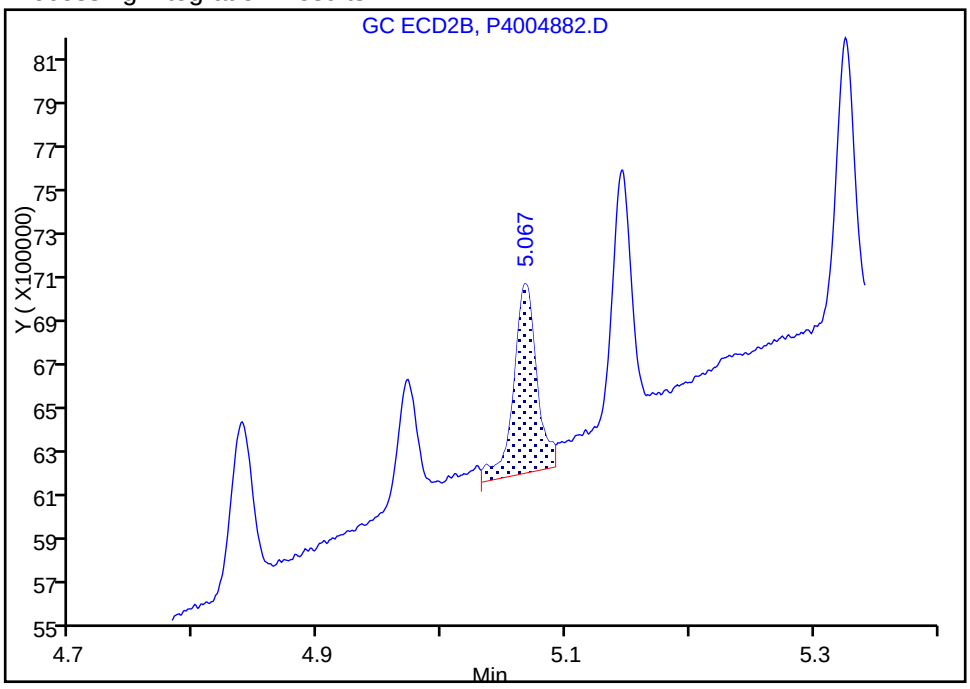
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

34 Mirex, CAS: 2385-85-5

Signal: 2

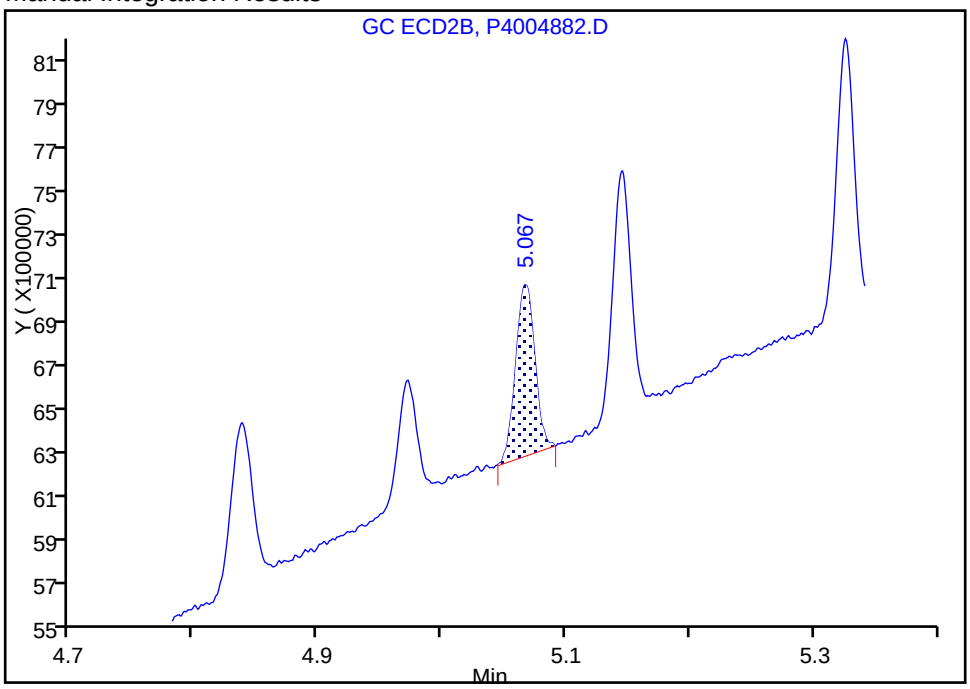
Processing Integration Results

RT: 5.07
Area: 1082180
Amount: 3.308341
Amount Units: ug/l



Manual Integration Results

RT: 5.07
Area: 810826
Amount: 2.682310
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:15

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

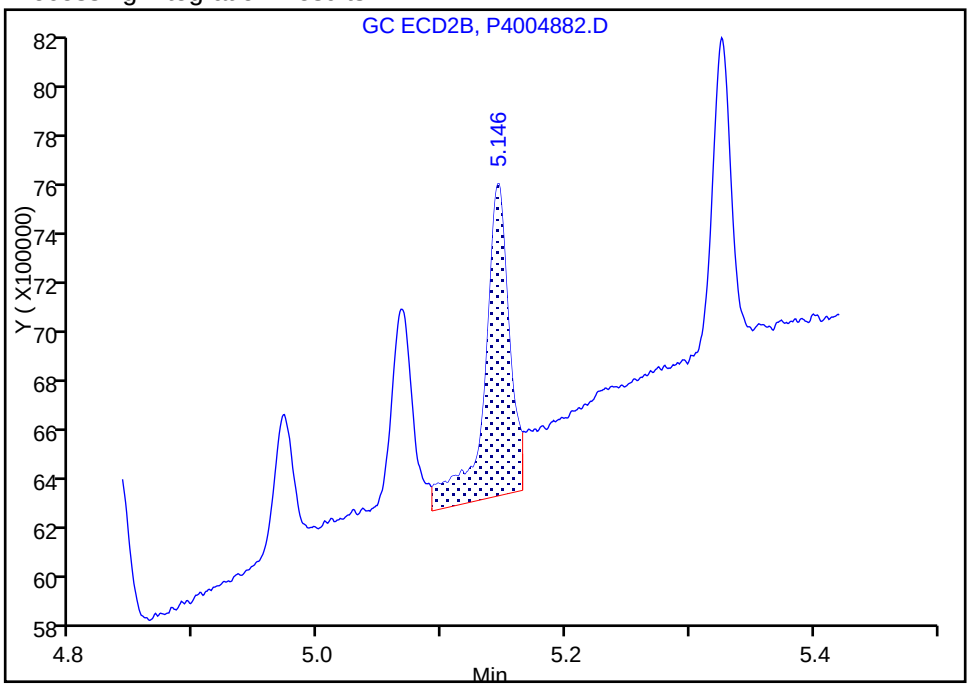
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

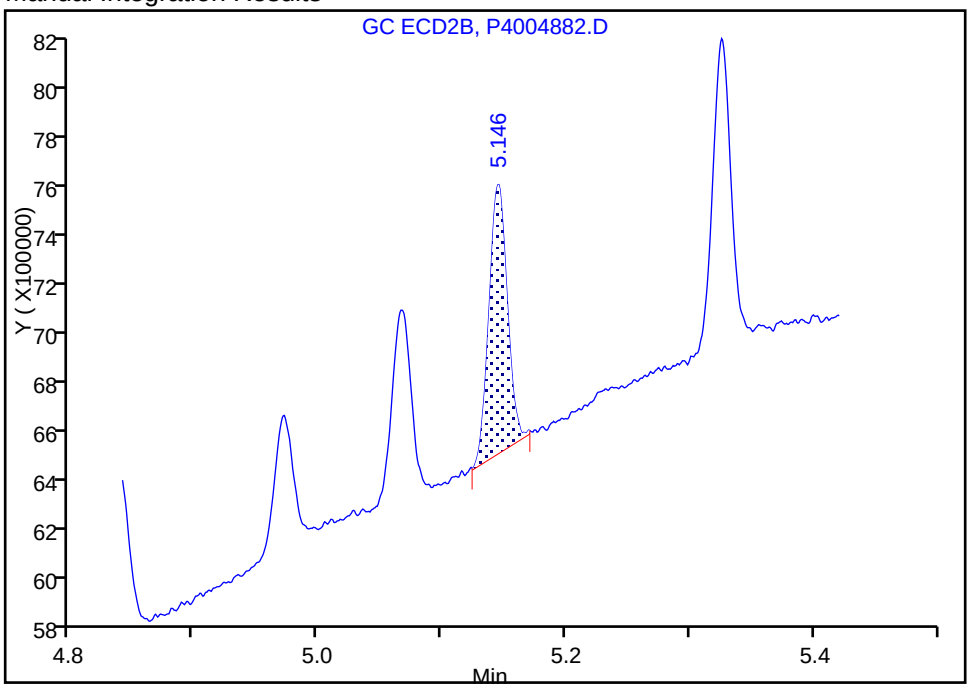
Processing Integration Results

RT: 5.15
Area: 1732438
Amount: 2.263230
Amount Units: ug/l



Manual Integration Results

RT: 5.15
Area: 1101769
Amount: 2.616887
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:17

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

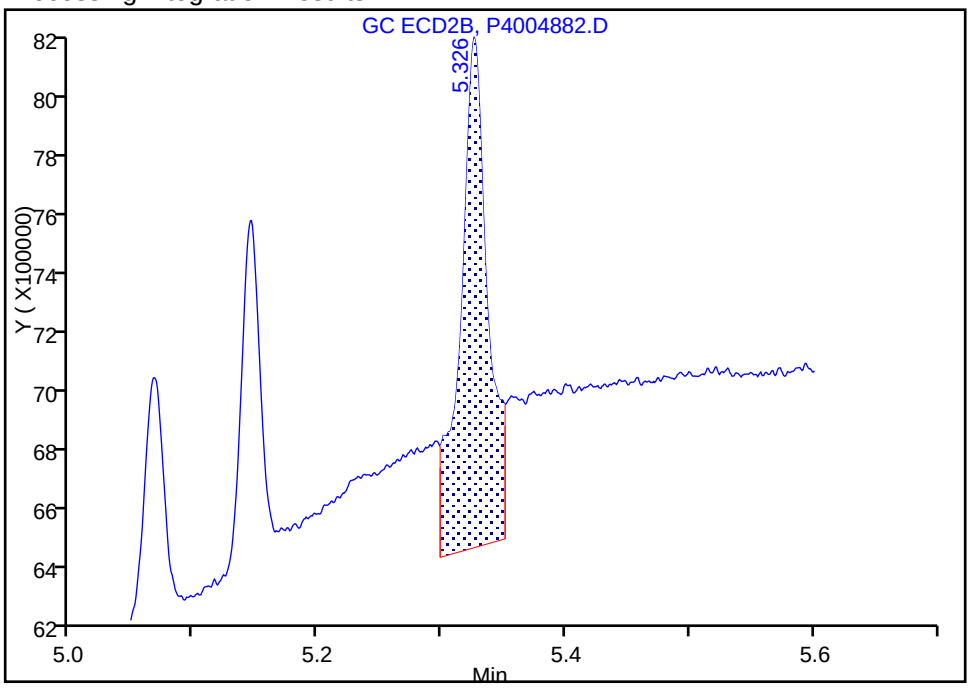
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

13 Endrin ketone, CAS: 53494-70-5

Signal: 2

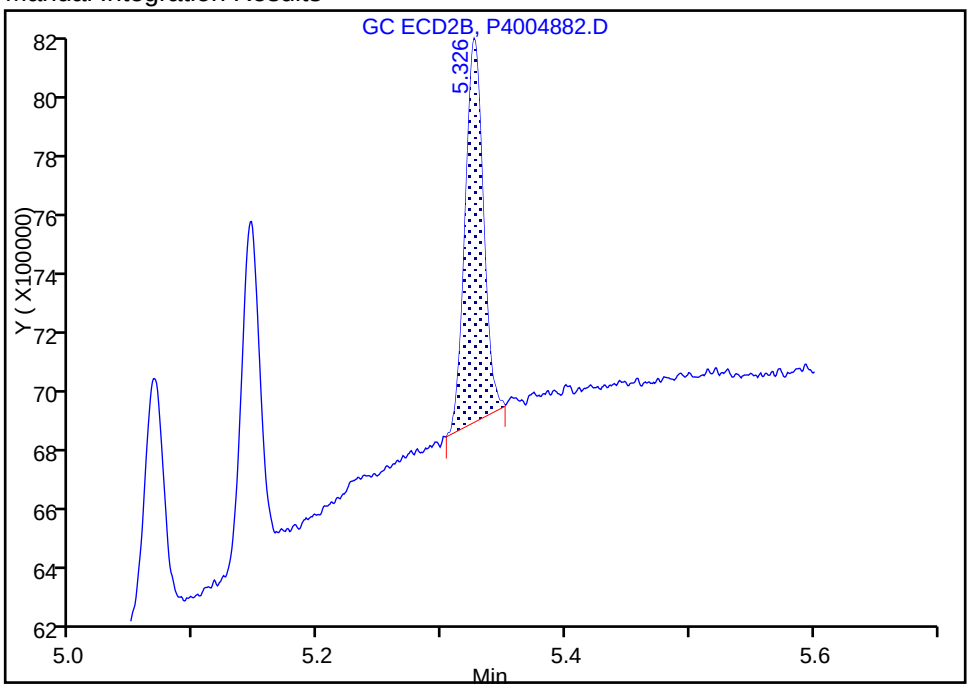
Processing Integration Results

RT: 5.33
Area: 2495661
Amount: 2.260792
Amount Units: ug/l



Manual Integration Results

RT: 5.33
Area: 1235923
Amount: 2.595378
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:09
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 08:34:19 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-004
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:36:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	30995442	100.0	100.0	
2	1.514	1.513	0.001	41249170	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.230	0.003	15222511	50.0	49.2	
2	1.887	1.885	0.002	19404595	50.0	49.7	
						RPD = 0.96	
15 alpha-BHC							
1	2.654	2.651	0.003	22273426	50.0	49.9	
2	2.209	2.208	0.001	28125700	50.0	49.5	
						RPD = 0.86	
2 gamma-BHC (Lindane)							
1	2.922	2.918	0.004	21406764	50.0	51.7	
2	2.402	2.400	0.002	25889272	50.0	49.9	
						RPD = 3.50	
6 beta-BHC							
1	2.971	2.967	0.004	9807394	50.0	54.2	
2	2.448	2.447	0.001	11597674	50.0	51.6	
						RPD = 4.98	
32 delta-BHC							
1	3.220	3.218	0.002	21741221	50.0	51.4	
2	2.565	2.563	0.002	25739135	50.0	49.7	
						RPD = 3.52	
18 Heptachlor							
1	3.297	3.294	0.003	21115027	50.0	51.4	
2	2.699	2.698	0.001	25502692	50.0	50.1	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.605	3.603	0.002	20146283	50.0	52.0	M
2	2.907	2.905	0.002	22924487	50.0	48.6	
						RPD = 6.71	
12 Heptachlor epoxide							M
1	4.210	4.208	0.002	18929078	50.0	53.7	M
2	3.361	3.359	0.002	22174471	50.0	49.9	
						RPD = 7.33	
9 gamma-Chlordane							M
1	4.419	4.418	0.001	17992167	50.0	51.0	M
2	3.464	3.462	0.002	22027564	50.0	49.9	
						RPD = 2.26	
23 alpha-Chlordane							
1	4.580	4.578	0.002	16937472	50.0	50.8	
2	3.579	3.577	0.002	21460792	50.0	50.0	
						RPD = 1.60	
7 Endosulfan I							
1	4.651	4.648	0.003	16278318	50.0	50.4	
2	3.711	3.709	0.002	21290606	50.0	50.8	
						RPD = 0.84	
25 4,4'-DDE							
1	4.723	4.722	0.001	17087976	50.0	51.3	
2	3.634	3.632	0.002	21496333	50.0	50.4	
						RPD = 1.74	
30 Dieldrin							
1	4.889	4.886	0.003	17932440	50.0	50.7	
2	3.945	3.943	0.002	23215863	50.0	50.1	
						RPD = 1.15	
20 Endrin							
1	5.112	5.110	0.002	15709414	50.0	50.2	
2	4.199	4.198	0.001	21185619	50.0	49.5	
						RPD = 1.52	
16 4,4'-DDD							
1	5.167	5.165	0.002	13829574	50.0	49.6	
2	4.255	4.253	0.002	18476782	50.0	49.7	
						RPD = 0.16	
11 Endosulfan II							
1	5.254	5.253	0.001	14997308	50.0	49.7	
2	4.439	4.437	0.002	20626396	50.0	51.0	
						RPD = 2.47	
21 4,4'-DDT							
1	5.382	5.380	0.002	14759027	50.0	50.1	
2	4.557	4.555	0.002	19665583	50.0	51.0	
						RPD = 1.80	
5 Endrin aldehyde							
1	5.482	5.480	0.002	12666436	50.0	49.9	
2	4.834	4.834	0.000	17226948	50.0	51.0	
						RPD = 2.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.693	5.692	0.001	14704500	50.0	50.5	
2	5.142	5.142	0.000	21141579	50.0	51.2	
						RPD = 1.43	
10 Methoxychlor							
1	5.929	5.927	0.002	8347253	50.0	51.9	
2	4.969	4.968	0.001	10951141	50.0	50.7	
						RPD = 2.38	
34 Mirex							M
1	6.134	6.133	0.001	9955340	50.0	48.3	M
2	5.064	5.063	0.001	14534654	50.0	49.0	
						RPD = 1.49	
13 Endrin ketone							M
1	6.169	6.167	0.002	16702227	50.0	50.9	M
2	5.323	5.323	0.000	24267944	50.0	52.0	
						RPD = 2.08	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.092	0.002	11638272	50.0	50.9	
2	6.117	6.116	0.001	19292555	50.0	51.6	
						RPD = 1.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

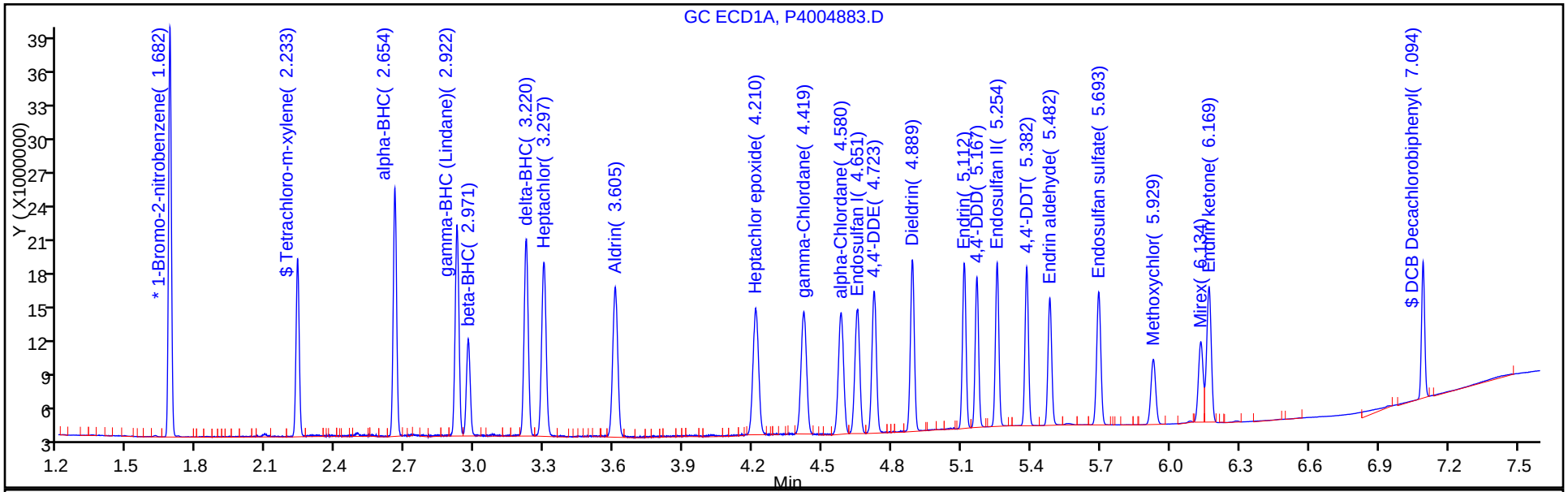
SGPESTL2_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

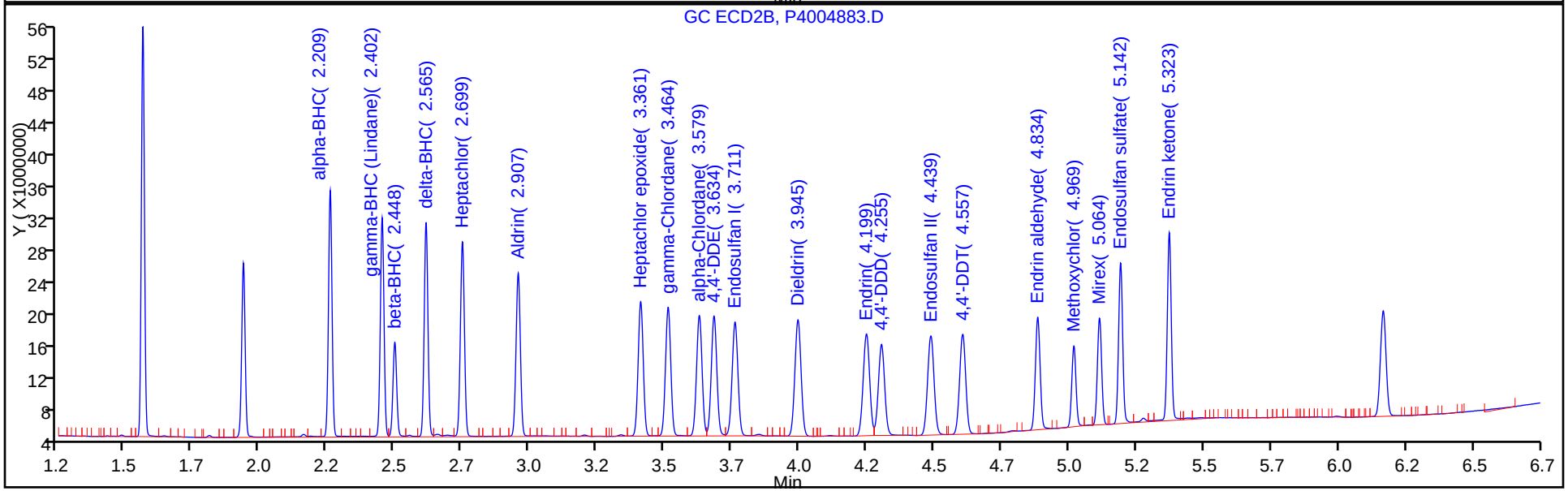
Report Date: 27-Sep-2017 13:43:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D

Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 08:46:34 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-005
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:19 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:14:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31440597	100.0	100.0	
2	1.514	1.514	0.000	41941013	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	31435133	100.0	100.2	
2	1.887	1.887	0.000	40999889	100.0	103.3	
						RPD = 3.01	
15 alpha-BHC							
1	2.654	2.654	0.000	44917872	100.0	99.2	
2	2.210	2.210	0.000	58964160	100.0	102.0	
						RPD = 2.79	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	42238244	100.0	100.5	
2	2.402	2.402	0.000	53365655	100.0	101.1	
						RPD = 0.63	
6 beta-BHC							
1	2.970	2.970	0.000	18689999	100.0	101.8	
2	2.449	2.449	0.000	22684079	100.0	99.2	
						RPD = 2.62	
32 delta-BHC							
1	3.220	3.220	0.000	42830724	100.0	99.9	
2	2.565	2.565	0.000	53466596	100.0	101.4	
						RPD = 1.54	
18 Heptachlor							
1	3.297	3.297	0.000	41381412	100.0	99.3	
2	2.700	2.700	0.000	52065379	100.0	100.5	
						RPD = 1.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	38526393	100.0	98.0	
2	2.907	2.907	0.000	47263361	100.0	98.6	
						RPD = 0.58	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	37669401	100.0	105.3	
2	3.362	3.362	0.000	45313024	100.0	100.2	
						RPD = 4.92	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	36499048	100.0	102.0	M
2	3.464	3.464	0.000	45042212	100.0	100.3	
						RPD = 1.70	
23 alpha-Chlordane							
1	4.580	4.580	0.000	34366860	100.0	101.5	
2	3.580	3.580	0.000	43513175	100.0	99.6	
						RPD = 1.91	
7 Endosulfan I							
1	4.651	4.651	0.000	33506968	100.0	102.2	
2	3.712	3.712	0.000	42806026	100.0	100.4	
						RPD = 1.75	
25 4,4'-DDE							
1	4.723	4.723	0.000	35199730	100.0	104.2	
2	3.634	3.634	0.000	43691386	100.0	100.8	
						RPD = 3.31	
30 Dieldrin							
1	4.887	4.887	0.000	36985897	100.0	103.1	
2	3.946	3.946	0.000	48478494	100.0	102.9	
						RPD = 0.15	
20 Endrin							
1	5.112	5.112	0.000	32977577	100.0	103.9	
2	4.200	4.200	0.000	44412680	100.0	102.0	
						RPD = 1.89	
16 4,4'-DDD							M
1	5.166	5.166	0.000	29934272	100.0	105.8	M
2	4.256	4.256	0.000	39034234	100.0	103.2	
						RPD = 2.50	
11 Endosulfan II							M
1	5.254	5.254	0.000	32512750	100.0	106.3	M
2	4.439	4.439	0.000	42274152	100.0	102.8	
						RPD = 3.38	
21 4,4'-DDT							M
1	5.381	5.381	0.000	31987959	100.0	107.0	M
2	4.557	4.557	0.000	40739512	100.0	103.9	
						RPD = 2.96	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	28247674	100.0	109.8	M
2	4.835	4.835	0.000	36095786	100.0	105.2	M
						RPD = 4.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.692	5.692	0.000	30913060	100.0	104.6	M
2	5.143	5.143	0.000	42870824	100.0	102.1	M
						RPD = 2.42	
10 Methoxychlor							M
1	5.928	5.928	0.000	17015761	100.0	104.3	
2	4.969	4.969	0.000	22746030	100.0	103.5	M
						RPD = 0.74	
34 Mirex							M
1	6.133	6.133	0.000	20783921	100.0	99.4	
2	5.065	5.065	0.000	29991407	100.0	99.5	M
						RPD = 0.08	
13 Endrin ketone							M
1	6.169	6.169	0.000	33900608	100.0	101.9	
2	5.323	5.323	0.000	48279033	100.0	101.7	M
						RPD = 0.16	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	23785382	100.0	102.5	
2	6.117	6.117	0.000	38977750	100.0	102.6	
						RPD = 0.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

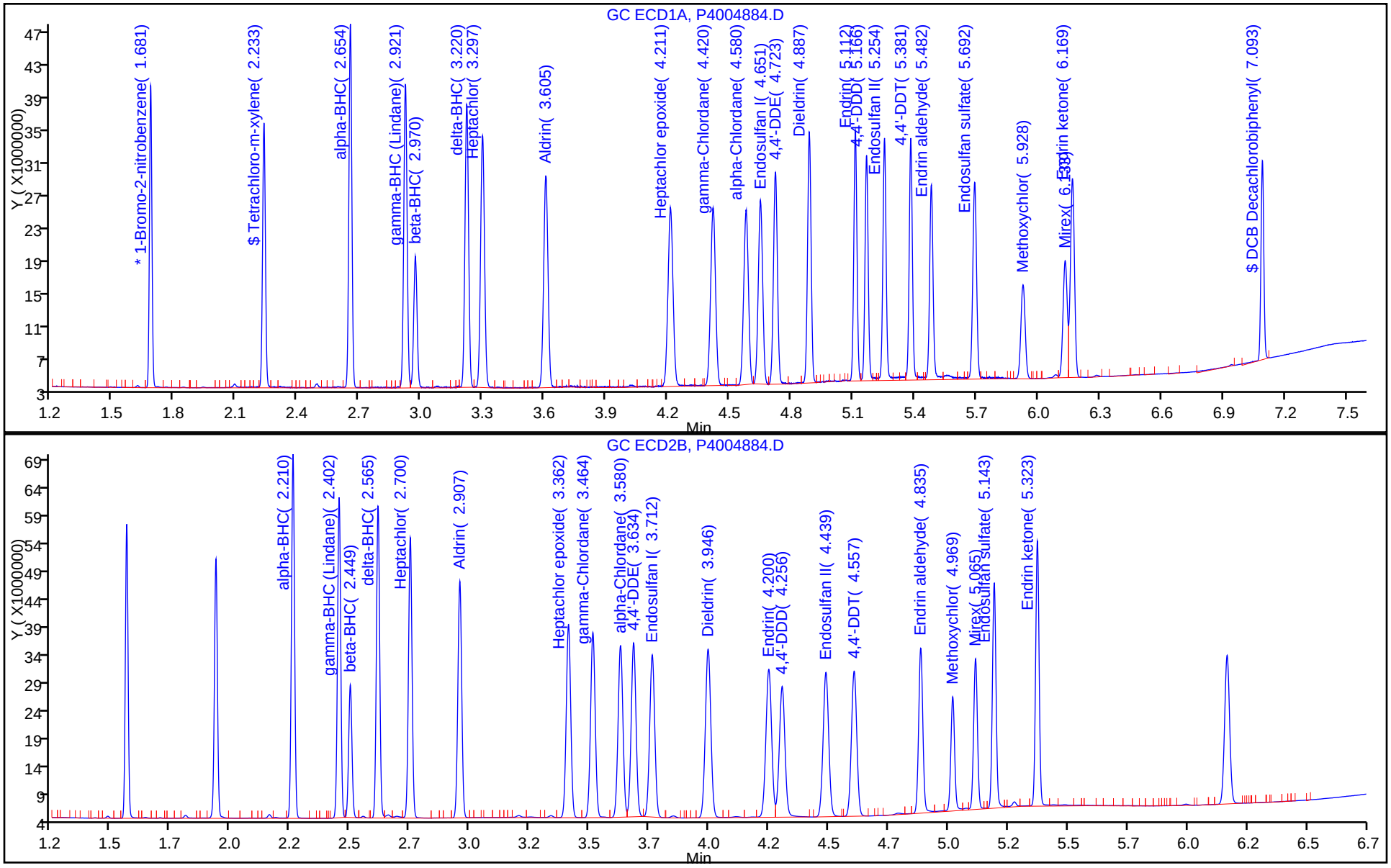
SGPESTL3_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D

Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

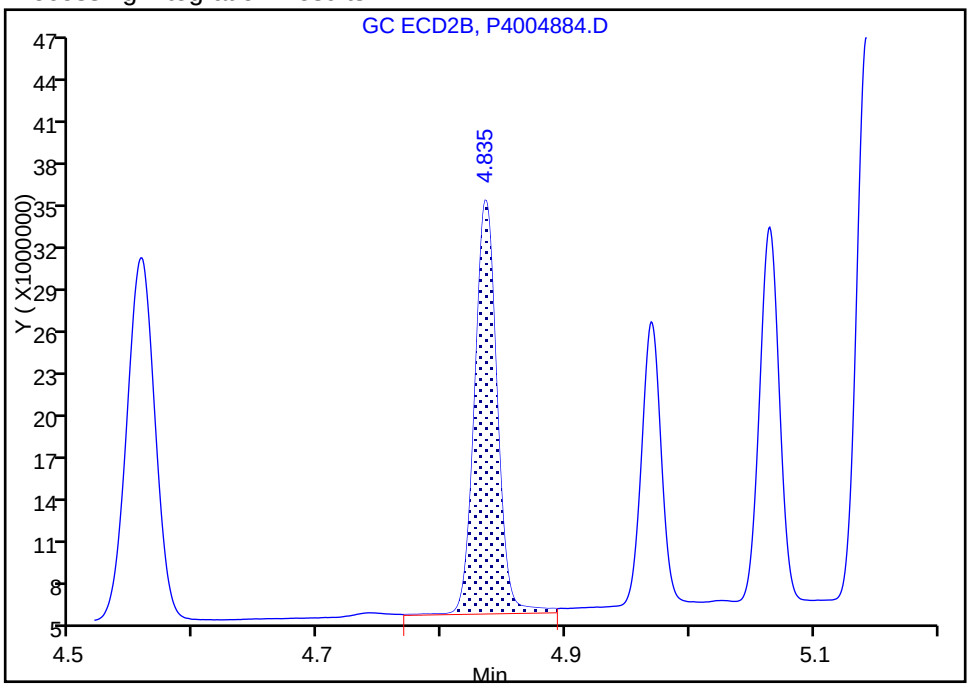
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 2

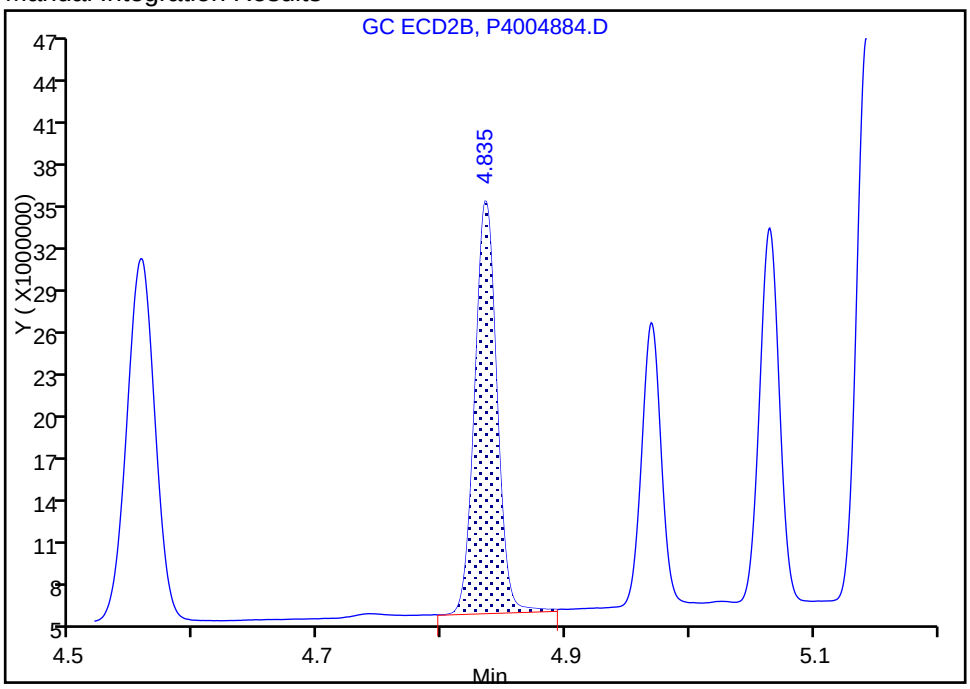
Processing Integration Results

RT: 4.83
Area: 36753605
Amount: 106.6970
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 36095786
Amount: 105.1891
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

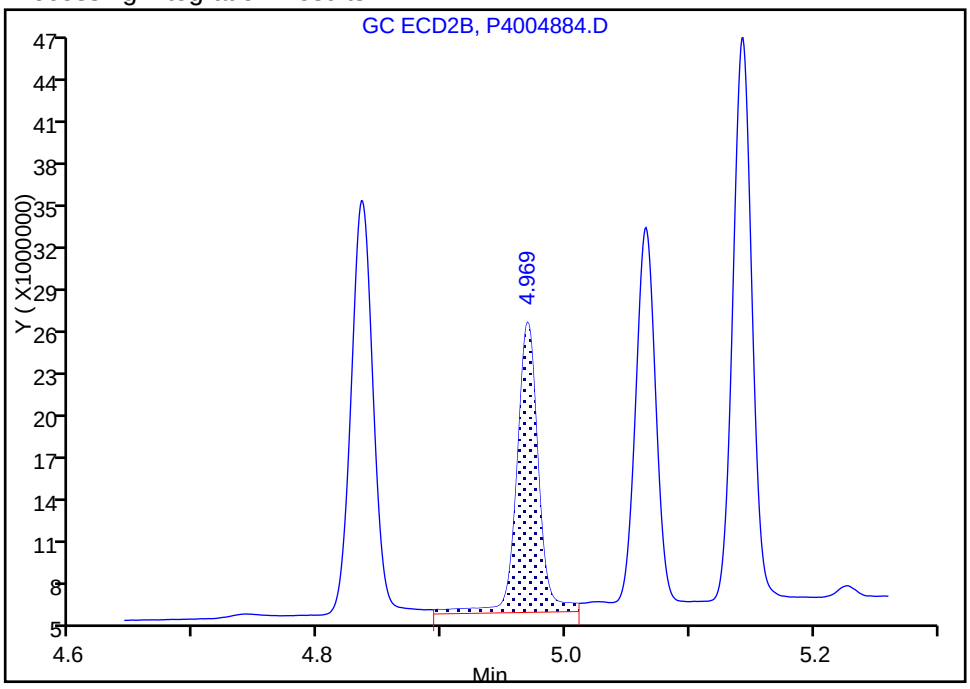
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D		
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL3		
Client ID:			
Operator ID:		ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

10 Methoxychlor, CAS: 72-43-5

Signal: 2

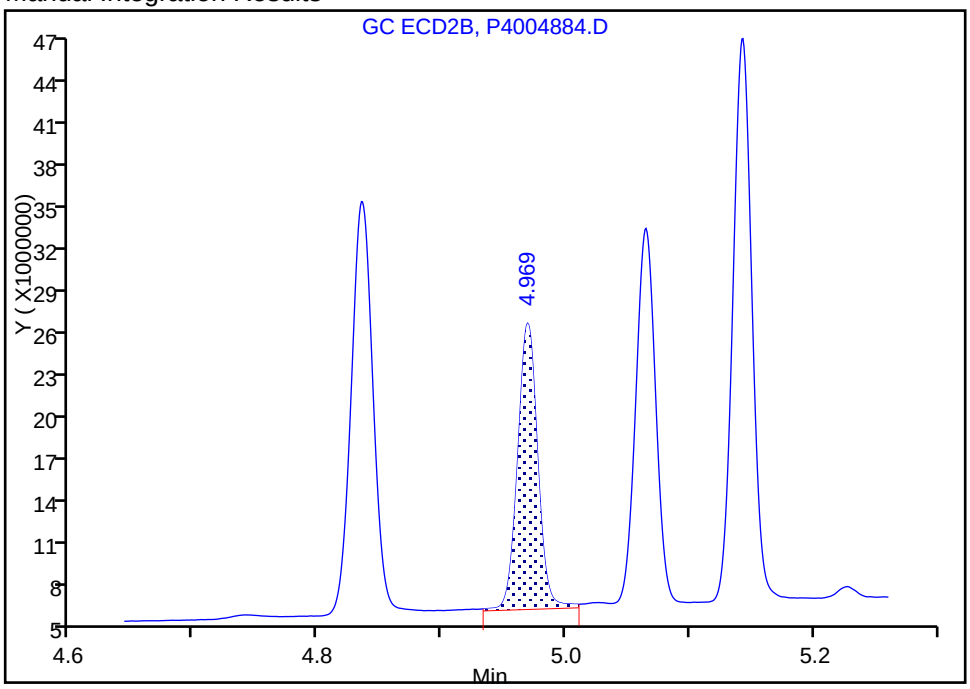
Processing Integration Results

RT: 4.97
Area: 24785519
Amount: 110.7562
Amount Units: ug/l



Manual Integration Results

RT: 4.97
Area: 22746030
Amount: 103.5297
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

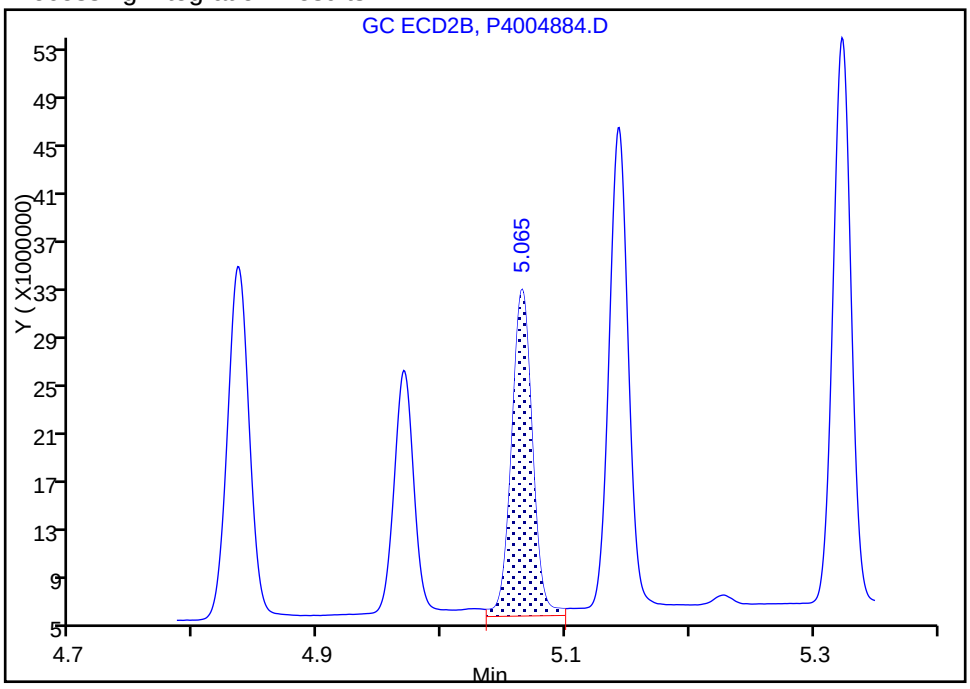
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

34 Mirex, CAS: 2385-85-5

Signal: 2

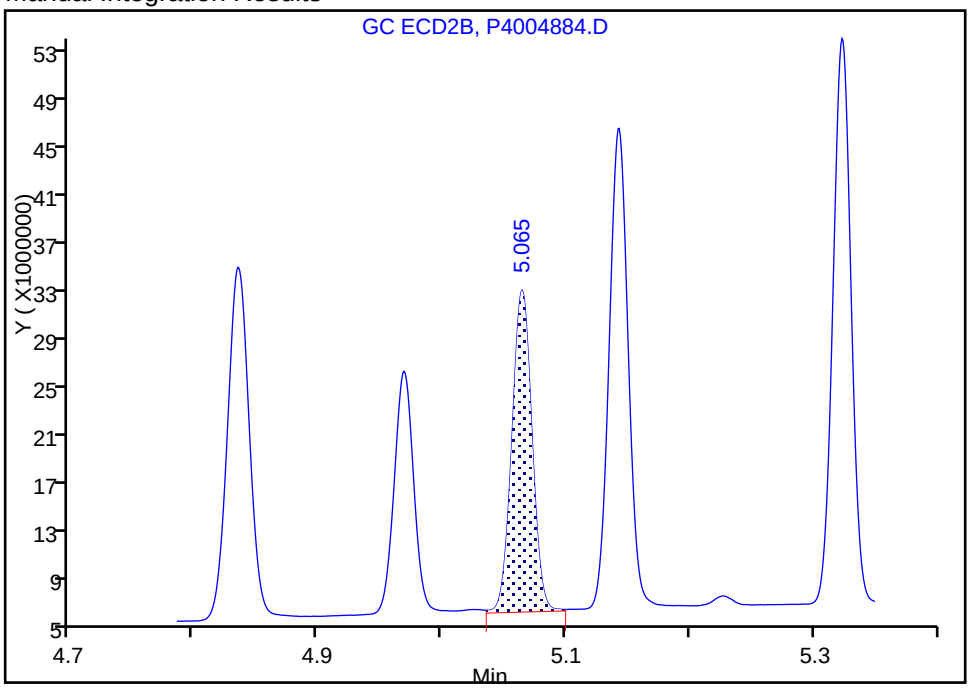
Processing Integration Results

RT: 5.06
Area: 31542378
Amount: 103.6082
Amount Units: ug/l



Manual Integration Results

RT: 5.06
Area: 29991407
Amount: 99.527749
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

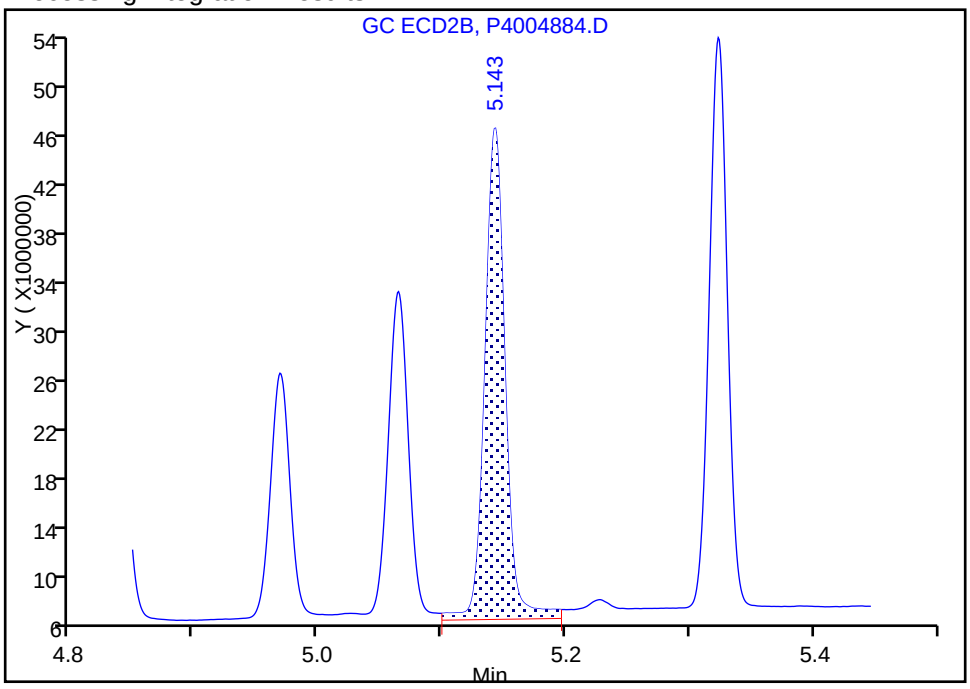
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

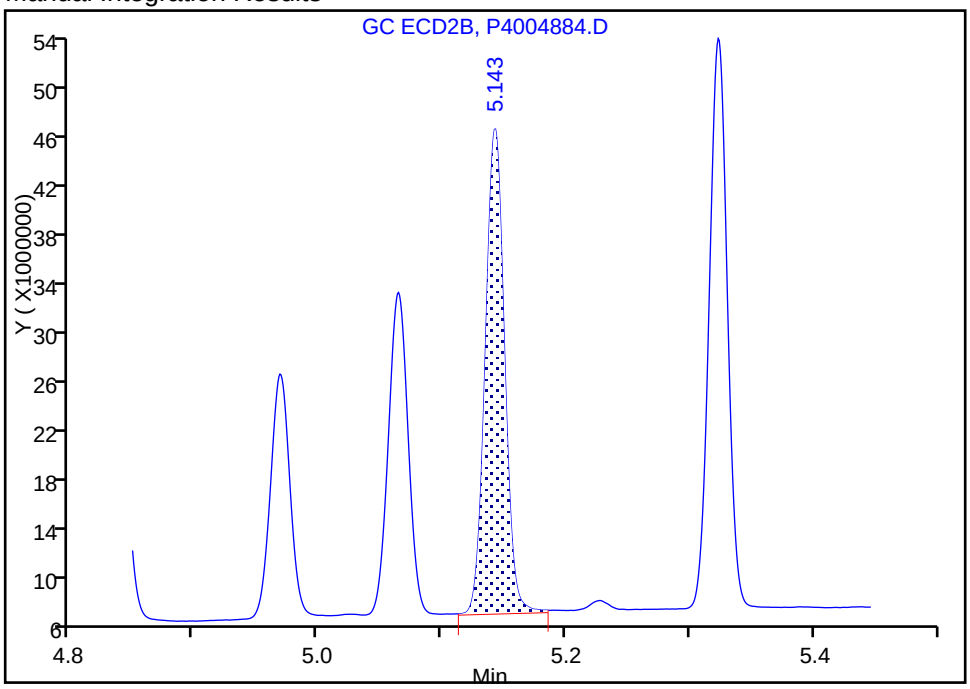
Processing Integration Results

RT: 5.14
Area: 46055310
Amount: 108.0934
Amount Units: ug/l



Manual Integration Results

RT: 5.14
Area: 42870824
Amount: 102.1462
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

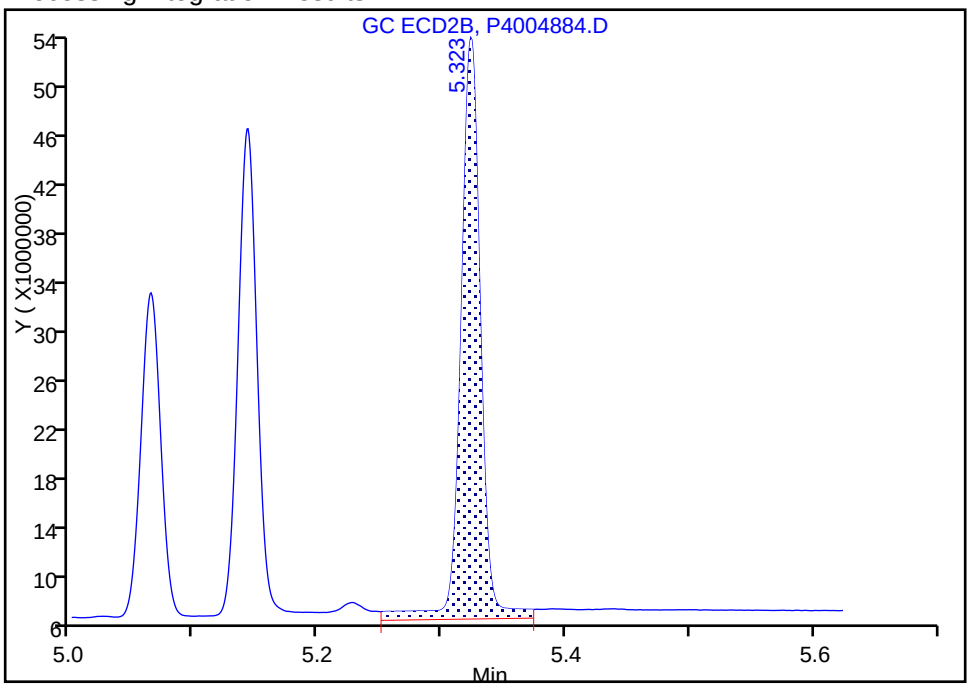
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

13 Endrin ketone, CAS: 53494-70-5

Signal: 2

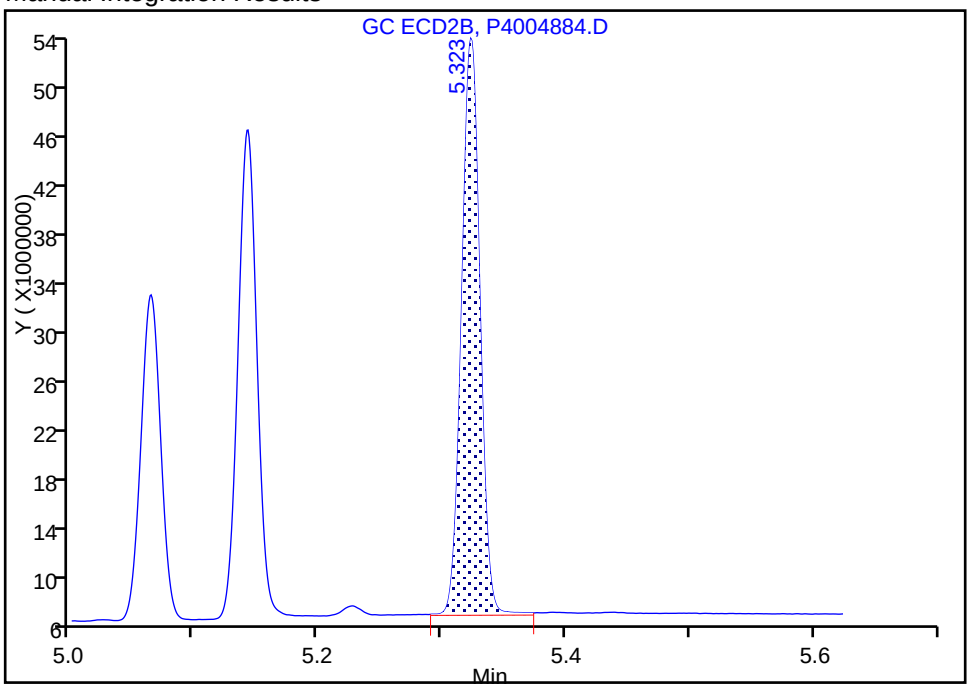
Processing Integration Results

RT: 5.32
Area: 52895567
Amount: 109.3021
Amount Units: ug/l



Manual Integration Results

RT: 5.32
Area: 48279033
Amount: 101.7030
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:25

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 08:58:46 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-006
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:24 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28287969	100.0	100.0	
2	1.513	1.514	-0.001	38420227	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	43436997	150.0	153.9	
2	1.886	1.887	-0.001	58125825	150.0	159.8	
						RPD = 3.78	
15 alpha-BHC							
1	2.653	2.654	-0.001	95133296	250.0	233.5	
2	2.209	2.210	-0.001	130672962	250.0	246.8	
						RPD = 5.52	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	88938478	250.0	235.1	
2	2.402	2.402	0.000	118246794	250.0	244.6	
						RPD = 3.93	
6 beta-BHC							
1	2.970	2.970	0.000	37933647	250.0	229.7	
2	2.449	2.449	0.000	49510009	250.0	236.3	
						RPD = 2.85	
32 delta-BHC							
1	3.220	3.220	0.000	89965643	250.0	233.2	
2	2.565	2.565	0.000	118490453	250.0	245.4	
						RPD = 5.10	
18 Heptachlor							
1	3.296	3.297	-0.001	86364255	250.0	230.3	
2	2.700	2.700	0.000	112872805	250.0	237.9	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	79920244	250.0	226.0	
2	2.907	2.907	0.000	102831108	250.0	234.2	
						RPD = 3.54	
12 Heptachlor epoxide							M
1	4.212	4.211	0.001	75424009	250.0	234.3	M
2	3.361	3.362	-0.001	96736728	250.0	233.6	
						RPD = 0.31	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	73419330	250.0	228.0	M
2	3.464	3.464	0.000	96648764	250.0	234.8	
						RPD = 2.96	
23 alpha-Chlordane							M
1	4.581	4.580	0.001	69503361	250.0	228.2	M
2	3.580	3.580	0.000	92611458	250.0	231.5	
						RPD = 1.40	
7 Endosulfan I							M
1	4.651	4.651	0.000	67737216	250.0	229.6	M
2	3.712	3.712	0.000	90713790	250.0	232.3	
						RPD = 1.17	
25 4,4'-DDE							M
1	4.723	4.723	0.000	71287260	250.0	234.5	M
2	3.635	3.634	0.001	94576527	250.0	238.1	
						RPD = 1.55	
30 Dieldrin							M
1	4.888	4.887	0.001	75827707	250.0	234.9	M
2	3.946	3.946	0.000	102621982	250.0	237.9	
						RPD = 1.25	
20 Endrin							M
1	5.112	5.112	0.000	67577298	250.0	236.6	M
2	4.201	4.200	0.001	93769443	250.0	235.0	
						RPD = 0.70	
16 4,4'-DDD							M
1	5.166	5.166	0.000	60672774	250.0	238.4	M
2	4.256	4.256	0.000	82580735	250.0	238.4	
						RPD = 0.01	
11 Endosulfan II							M
1	5.254	5.254	0.000	65092408	250.0	236.5	M
2	4.440	4.439	0.001	88264400	250.0	234.2	
						RPD = 0.98	
21 4,4'-DDT							M
1	5.382	5.381	0.001	64186095	250.0	238.6	M
2	4.557	4.557	0.000	86571844	250.0	241.0	
						RPD = 0.98	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	54582165	250.0	235.7	M
2	4.836	4.835	0.001	75170596	250.0	239.1	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.693	5.692	0.001	62190154	250.0	234.0	M
2	5.143	5.143	0.000	90883527	250.0	236.4	
						RPD = 1.02	
10 Methoxychlor							
1	5.928	5.928	0.000	34556840	250.0	235.4	
2	4.970	4.969	0.001	47082647	250.0	233.9	
						RPD = 0.63	
34 Mirex							M
1	6.134	6.133	0.001	46437684	250.0	247.0	M
2	5.065	5.065	0.000	67254686	250.0	243.6	
						RPD = 1.35	
13 Endrin ketone							M
1	6.170	6.169	0.001	70677969	250.0	236.1	M
2	5.324	5.323	0.001	102539557	250.0	235.8	
						RPD = 0.11	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	33167313	150.0	158.8	
2	6.117	6.117	0.000	54260076	150.0	155.9	
						RPD = 1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

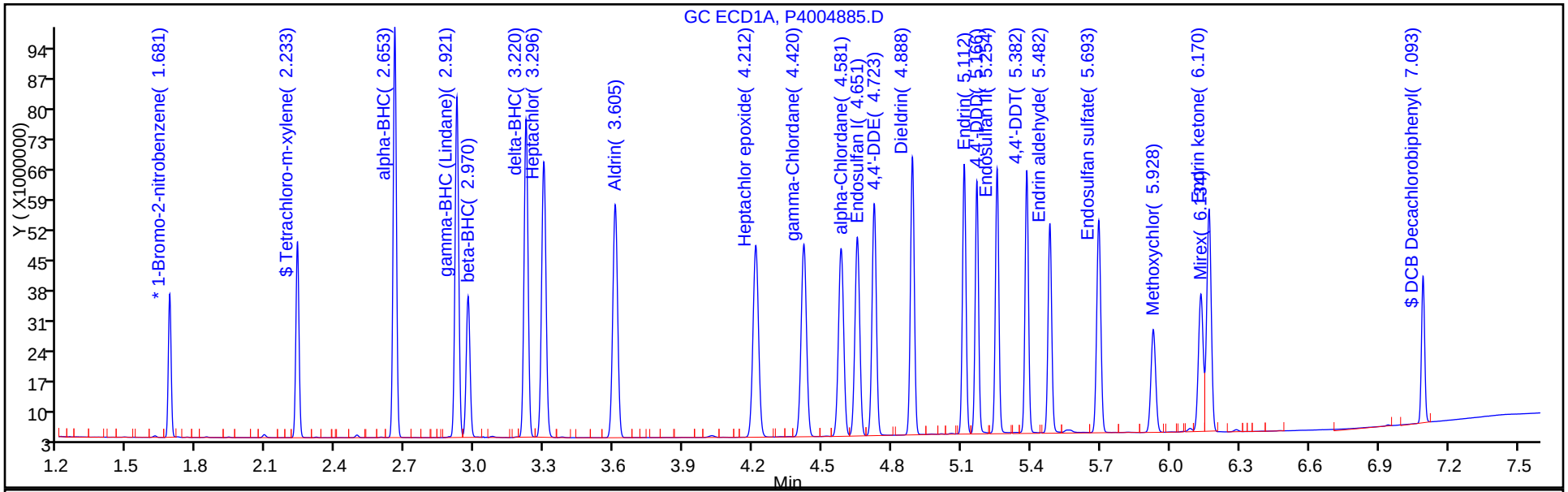
SGPESTL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

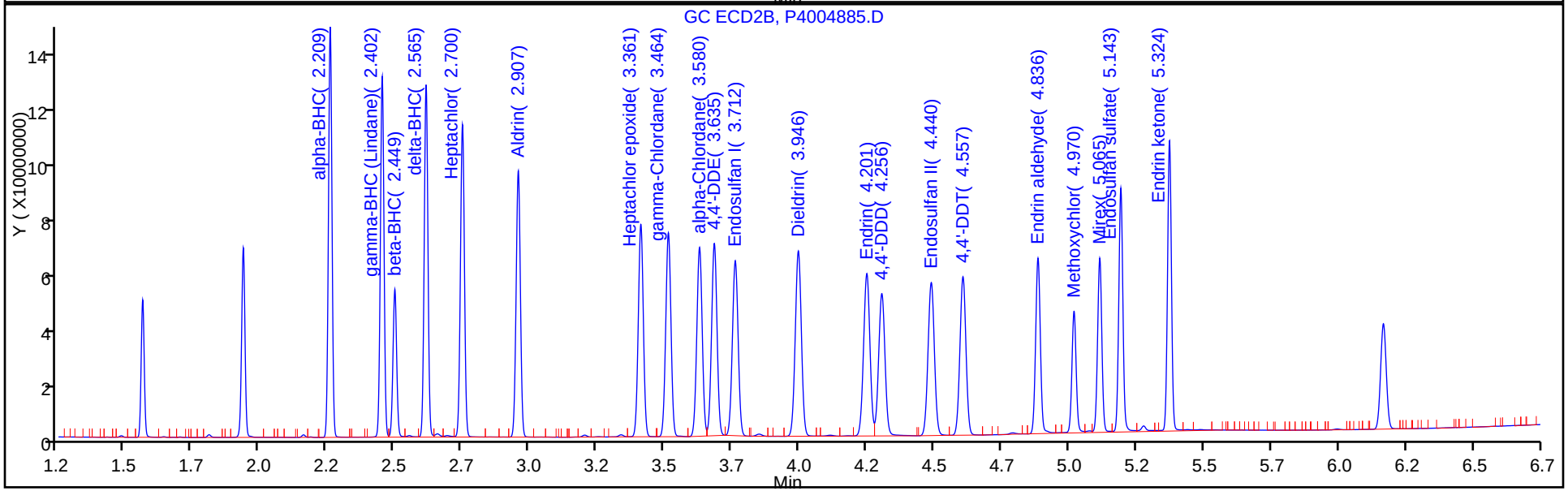
Report Date: 27-Sep-2017 13:43:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D

Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 09:10:59 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-007
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28810259	100.0	100.0	
2	1.513	1.514	-0.001	38564089	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.232	2.233	-0.001	58517789	200.0	203.5	
2	1.886	1.887	-0.001	78511207	200.0	215.0	
						RPD = 5.49	
15 alpha-BHC							
1	2.652	2.654	-0.002	196927550	500.0	474.7	
2	2.209	2.210	-0.001	267362879	500.0	503.1	
						RPD = 5.81	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	182445699	500.0	473.6	
2	2.402	2.402	0.000	241268187	500.0	497.2	
						RPD = 4.85	
6 beta-BHC							
1	2.969	2.970	-0.001	75403540	500.0	448.3	
2	2.449	2.449	0.000	98087924	500.0	466.4	
						RPD = 3.97	
32 delta-BHC							
1	3.220	3.220	0.000	185126474	500.0	471.2	
2	2.565	2.565	0.000	242975044	500.0	501.4	
						RPD = 6.21	
18 Heptachlor							
1	3.296	3.297	-0.001	177024434	500.0	463.4	
2	2.700	2.700	0.000	230230609	500.0	483.5	
						RPD = 4.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.604	3.605	-0.001	163104958	500.0	452.9	
2	2.906	2.907	-0.001	210299860	500.0	477.1	
						RPD = 5.21	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	152479122	500.0	465.2	
2	3.361	3.362	-0.001	196270296	500.0	472.2	
						RPD = 1.51	
9 gamma-Chlordane							M
1	4.417	4.420	-0.003	150086696	500.0	457.6	M
2	3.463	3.464	-0.001	197305184	500.0	477.6	
						RPD = 4.28	
23 alpha-Chlordane							M
1	4.580	4.580	0.000	142847352	500.0	460.6	M
2	3.579	3.580	-0.001	189103626	500.0	470.8	
						RPD = 2.20	
7 Endosulfan I							M
1	4.649	4.651	-0.002	139163926	500.0	463.1	M
2	3.711	3.712	-0.001	185201648	500.0	472.5	
						RPD = 1.99	
25 4,4'-DDE							M
1	4.721	4.723	-0.002	147238748	500.0	475.5	M
2	3.633	3.634	-0.001	195418561	500.0	490.2	
						RPD = 3.04	
30 Dieldrin							
1	4.887	4.887	0.000	156273747	500.0	475.4	
2	3.945	3.946	-0.001	213186435	500.0	492.4	
						RPD = 3.50	
20 Endrin							M
1	5.111	5.112	-0.001	138200668	500.0	475.2	M
2	4.199	4.200	-0.001	195141671	500.0	487.2	
						RPD = 2.50	
16 4,4'-DDD							M
1	5.166	5.166	0.000	123895825	500.0	478.1	M
2	4.255	4.256	-0.001	172140925	500.0	495.1	
						RPD = 3.50	
11 Endosulfan II							M
1	5.253	5.254	-0.001	131298067	500.0	468.4	M
2	4.438	4.439	-0.001	182111007	500.0	481.4	
						RPD = 2.74	
21 4,4'-DDT							M
1	5.381	5.381	0.000	130809930	500.0	477.5	M
2	4.556	4.557	-0.001	181631574	500.0	503.7	
						RPD = 5.34	
5 Endrin aldehyde							M
1	5.481	5.482	-0.001	109066149	500.0	462.5	M
2	4.835	4.835	0.000	155267812	500.0	492.1	
						RPD = 6.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.692	5.692	0.000	125420628	500.0	463.3	
2	5.142	5.143	-0.001	185597502	500.0	480.9	
						RPD = 3.73	
10 Methoxychlor							
1	5.928	5.928	0.000	69228051	500.0	463.1	
2	4.969	4.969	0.000	96191660	500.0	476.2	
						RPD = 2.79	
34 Mirex							M
1	6.134	6.133	0.001	92553381	500.0	483.3	M
2	5.064	5.065	-0.001	135265212	500.0	488.2	
						RPD = 1.01	
13 Endrin ketone							M
1	6.169	6.169	0.000	145234779	500.0	476.3	M
2	5.323	5.323	0.000	209954229	500.0	481.0	
						RPD = 0.99	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.093	0.001	44320427	200.0	208.4	
2	6.117	6.117	0.000	73442990	200.0	210.2	
						RPD = 0.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

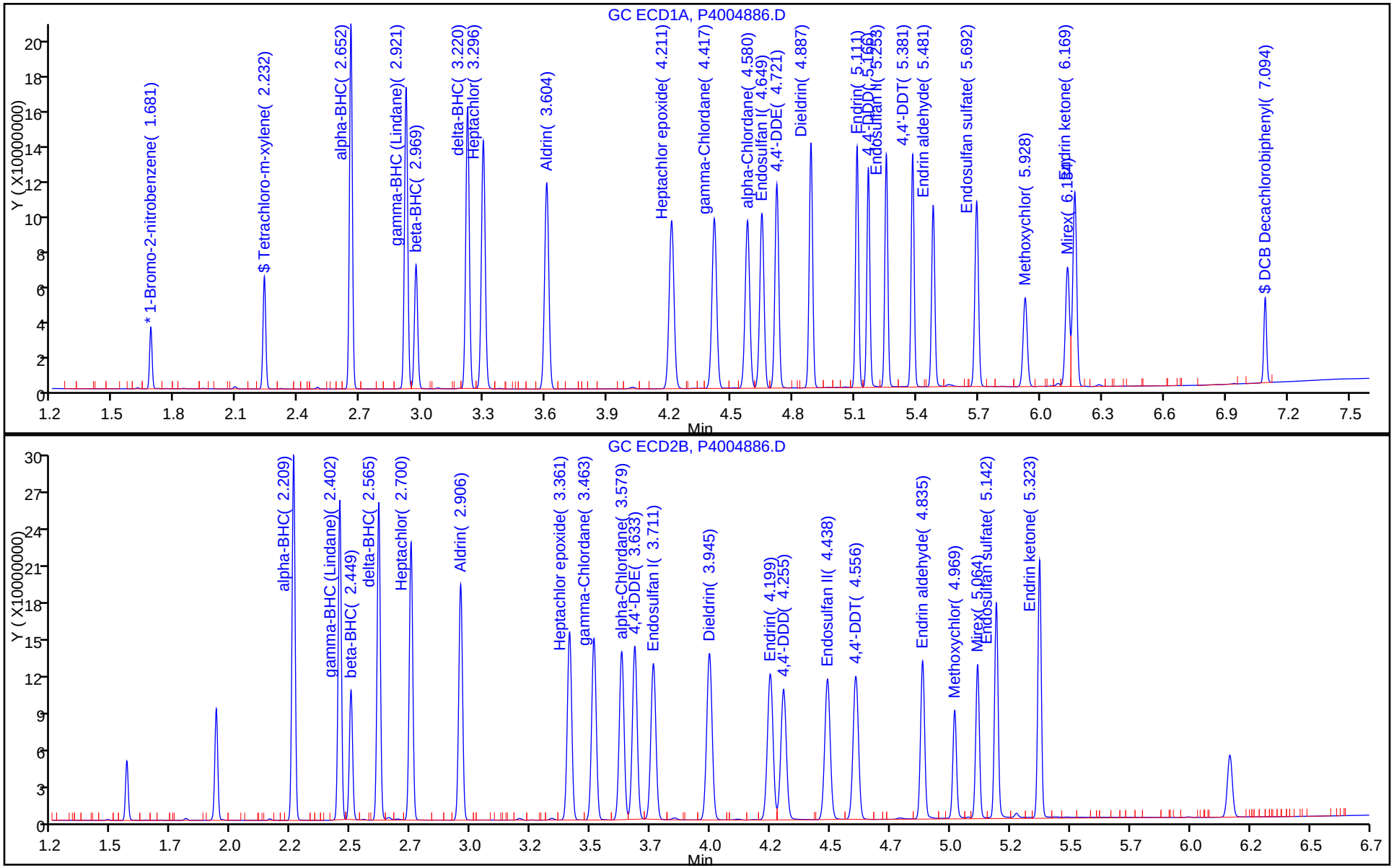
SGPESTL5_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D

Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64219

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0336	0.0303	0.0319	0.0342	0.0346	Ave		0.0329				5.5		20.0			
Chlordane (technical) Peak 2	0.0372	0.0322	0.0347	0.0353	0.0345	Ave		0.0348				5.2		20.0			
Chlordane (technical) Peak 3	0.1034	0.1003	0.1002	0.1117	0.1108	Ave		0.1053				5.3		20.0			
Chlordane (technical) Peak 4	0.1121	0.1139	0.1131	0.1264	0.1249	Ave		0.1181				5.9		20.0			
Chlordane (technical) Peak 5	0.0853	0.0785	0.0778	0.0869	0.0856	Ave		0.0828				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64219

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	552793	4773927	10183804	14957926	25300336	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	613249	5079960	11059593	15466508	25197565	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	1703088	15814015	31964687	48923562	80909063	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	1845488	17952665	36077918	55335075	91240877	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	1405221	12374858	24836816	38072751	62495338	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 10:11:34 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-010
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:44 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:24:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.683	1.679	0.004	32928545	100.0	100.0	
2	1.511	1.512	-0.001	42246375	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.174	3.167	0.007	552793	50.0	51.0	M
1	3.738	3.730	0.008	613249	50.0	53.5	
1	4.427	4.417	0.010	1703088	50.0	49.1	a
1	4.525	4.513	0.012	1845488	50.0	47.5	
1	4.589	4.577	0.012	1405221	50.0	51.5	a
		Average of Peak Amounts =				50.5	
2	2.647	2.647	0.000	790606	50.0	59.4	M
2	2.996	2.996	0.000	876798	50.0	56.0	M
2	3.304	3.305	-0.001	696601	50.0	63.9	M
2	3.461	3.462	-0.001	2672054	50.0	51.6	M
2	3.559	3.560	-0.001	4448525	50.0	50.3	M
		Average of Peak Amounts =				56.2	
						RPD = 10.66	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

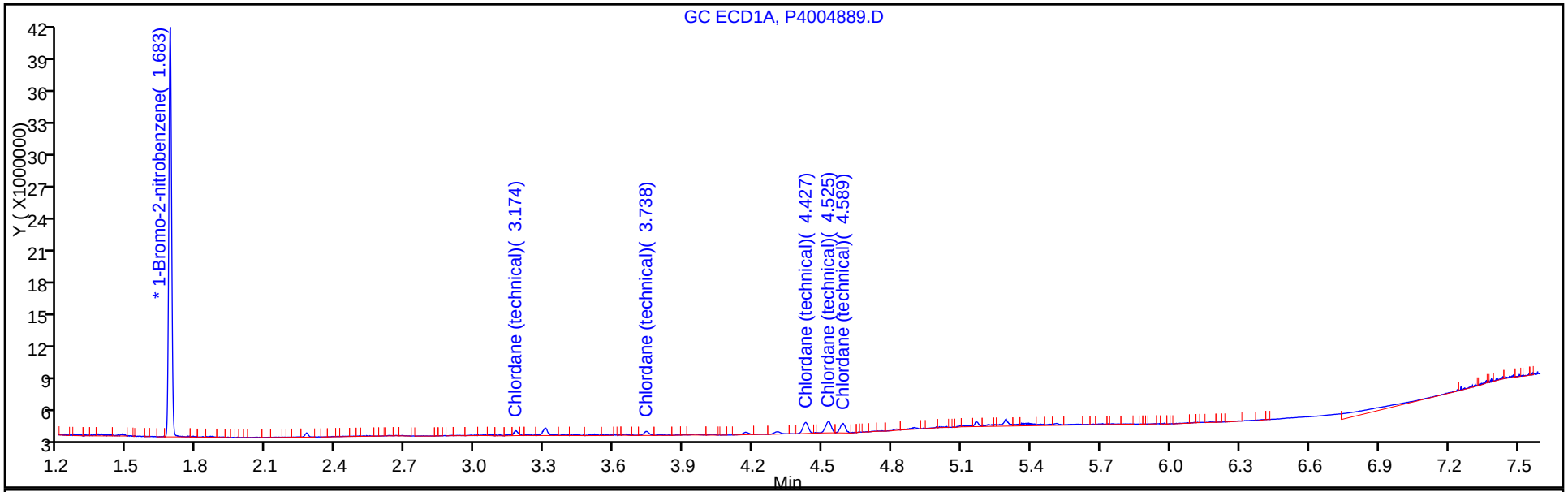
SGCHL608LVIL1_00010 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

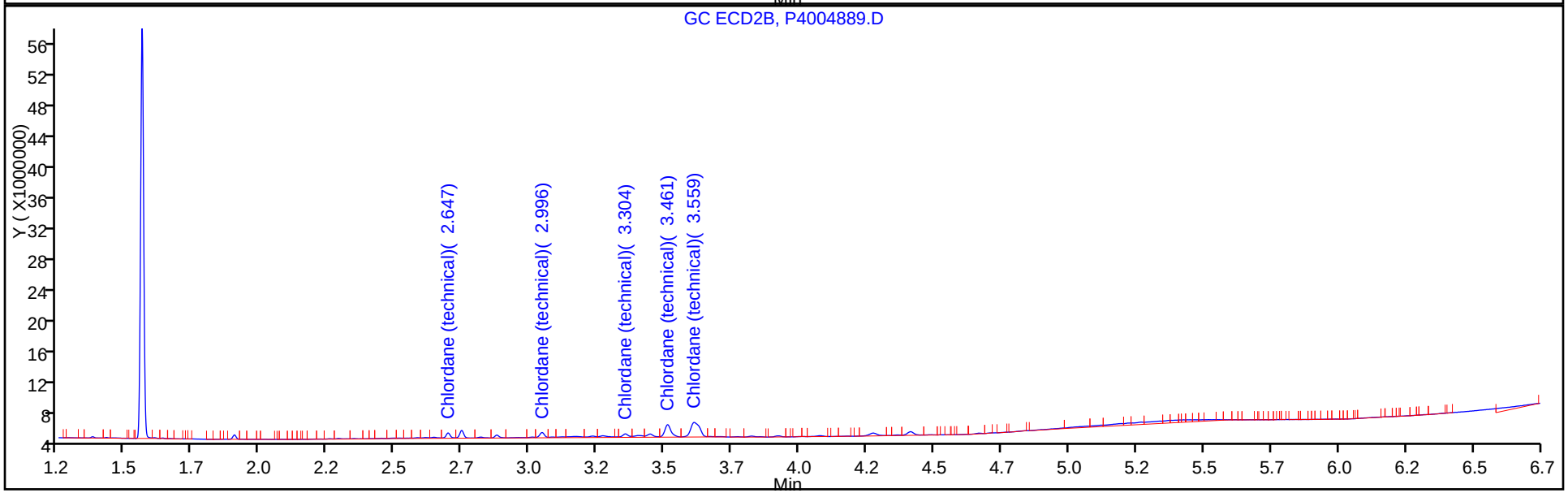
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





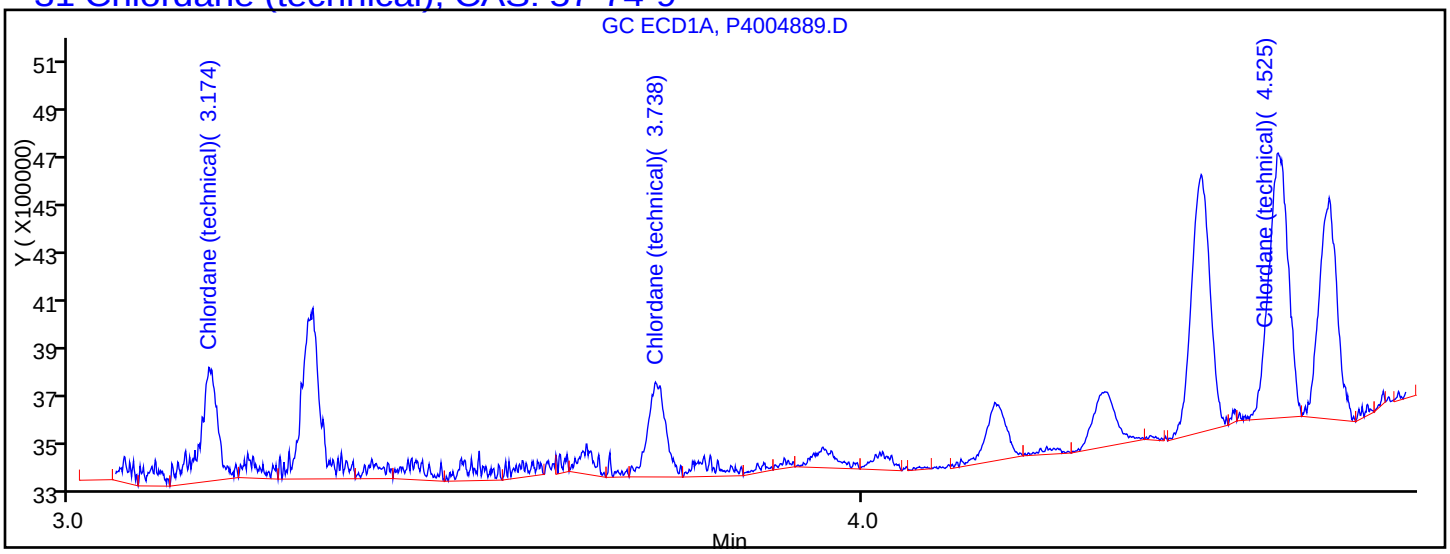
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

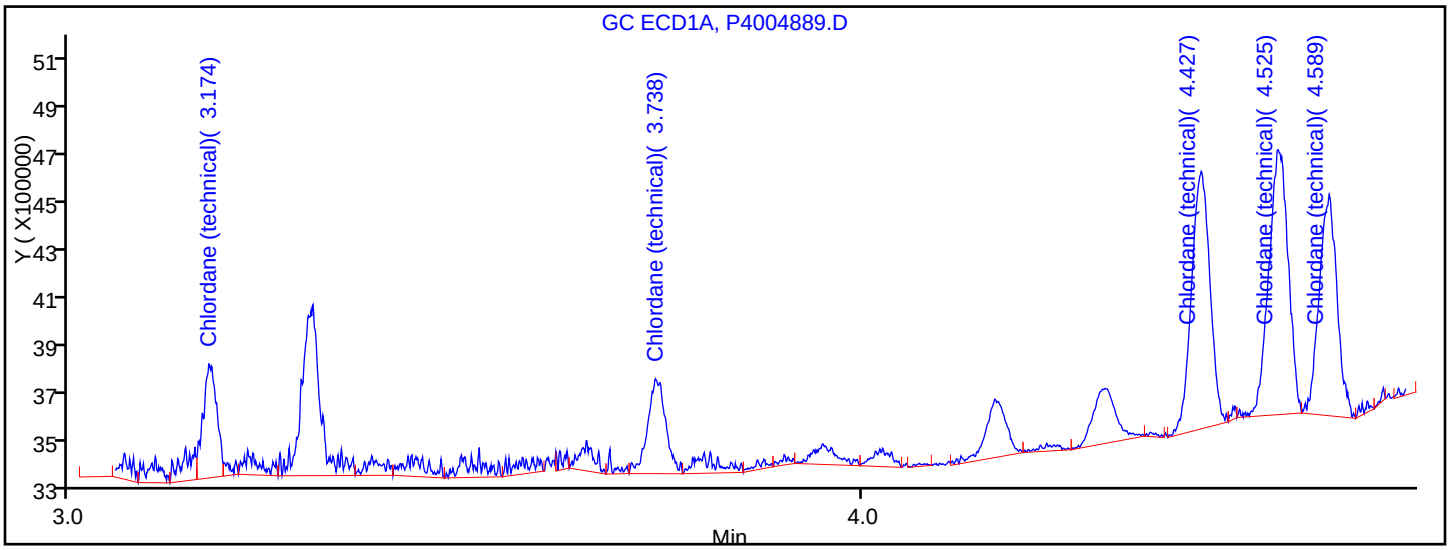
Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4		
Lims ID:	IC CHLOL1				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

3.174	Response = 746591
3.738	Response = 613249
4.417	Response = 0
4.525	Response = 1845488
4.577	Response = 0



Manual Integration Results

3.174	Response = 552793	M
3.738	Response = 613249	
4.427	Response = 1703088	M
4.525	Response = 1845488	
4.589	Response = 1405221	M

Reviewer: kapoors, 27-Sep-2017 11:26:13

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 10:23:57 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-011
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:48 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	31535813	100.0	100.0	
2	1.513	1.512	0.001	40798744	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.169	3.167	0.002	4773927	500.0	460.0	
1	3.732	3.730	0.002	5079960	500.0	463.1	
1	4.419	4.417	0.002	15814015	500.0	476.3	
1	4.518	4.513	0.005	17952665	500.0	482.2	
1	4.579	4.577	0.002	12374858	500.0	473.7	
		Average of Peak Amounts =				471.1	
2	2.647	2.647	0.000	5984731	500.0	465.4	
2	2.996	2.996	0.000	7541823	500.0	498.8	
2	3.304	3.305	-0.001	4939270	500.0	469.3	
2	3.462	3.462	0.000	24045192	500.0	480.5	
2	3.560	3.560	0.000	41495368	500.0	485.5	
		Average of Peak Amounts =				479.9	
						RPD = 1.86	

Reagents:

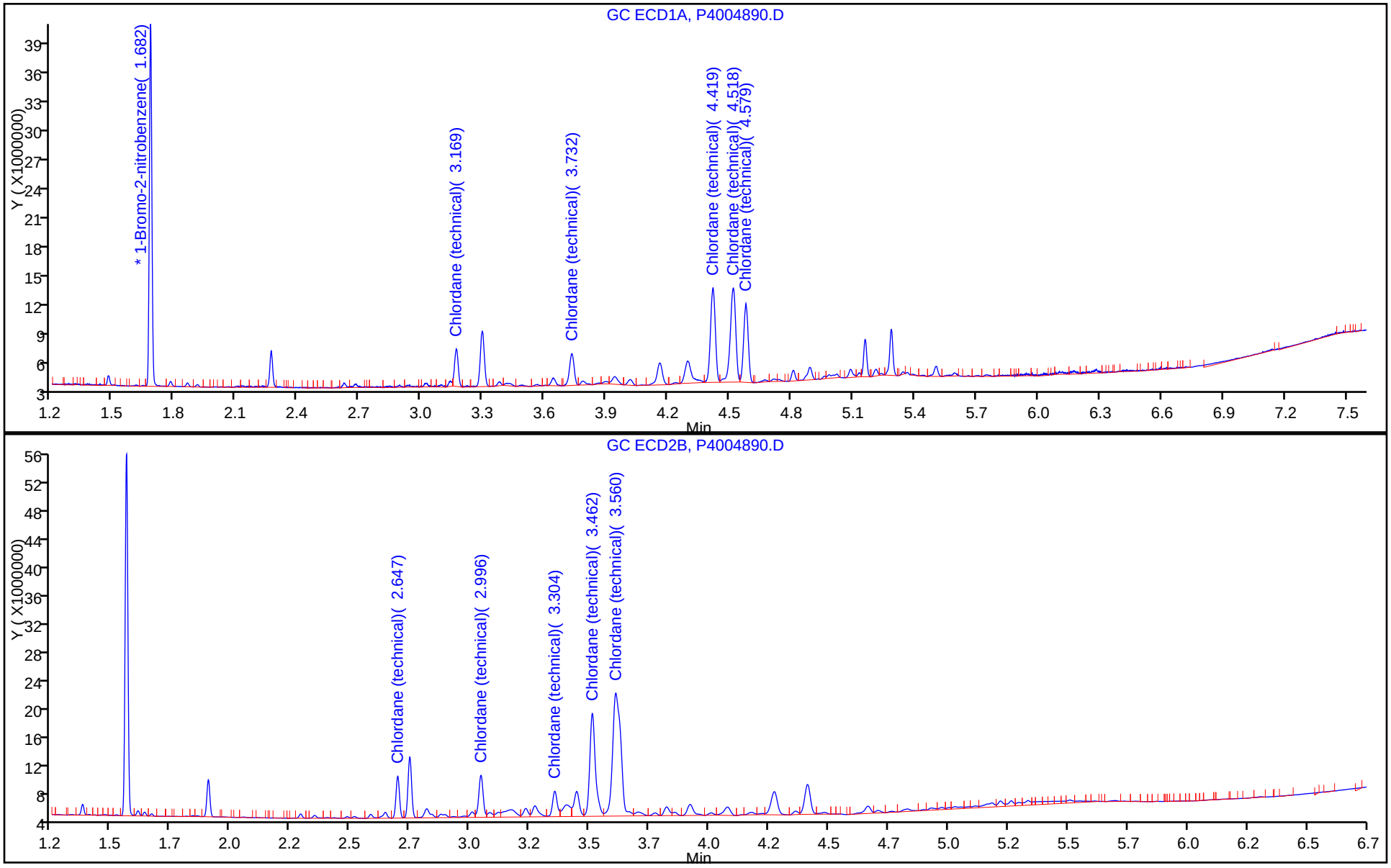
SGCHOL2_00013 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 27-Sep-2017 13:43:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D

Injection Date:	27-Sep-2017 10:23:57	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 10:36:18 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-012
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:51 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:21:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31905364	100.0	100.0	
2	1.513	1.513	0.000	42522794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.170	3.170	0.000	10183804	1000.0	969.8	
1	3.729	3.729	0.000	11059593	1000.0	996.4	
1	4.416	4.416	0.000	31964687	1000.0	951.6	
1	4.516	4.516	0.000	36077918	1000.0	957.8	
1	4.577	4.577	0.000	24836816	1000.0	939.8	
		Average of Peak Amounts =				963.1	
2	2.648	2.648	0.000	12184846	1000.0	909.2	
2	2.996	2.996	0.000	14010087	1000.0	888.9	
2	3.305	3.305	0.000	8992530	1000.0	819.8	
2	3.461	3.461	0.000	47345330	1000.0	907.7	
2	3.561	3.561	0.000	81407514	1000.0	913.9	
		Average of Peak Amounts =				887.9	
						RPD = 8.13	

Reagents:

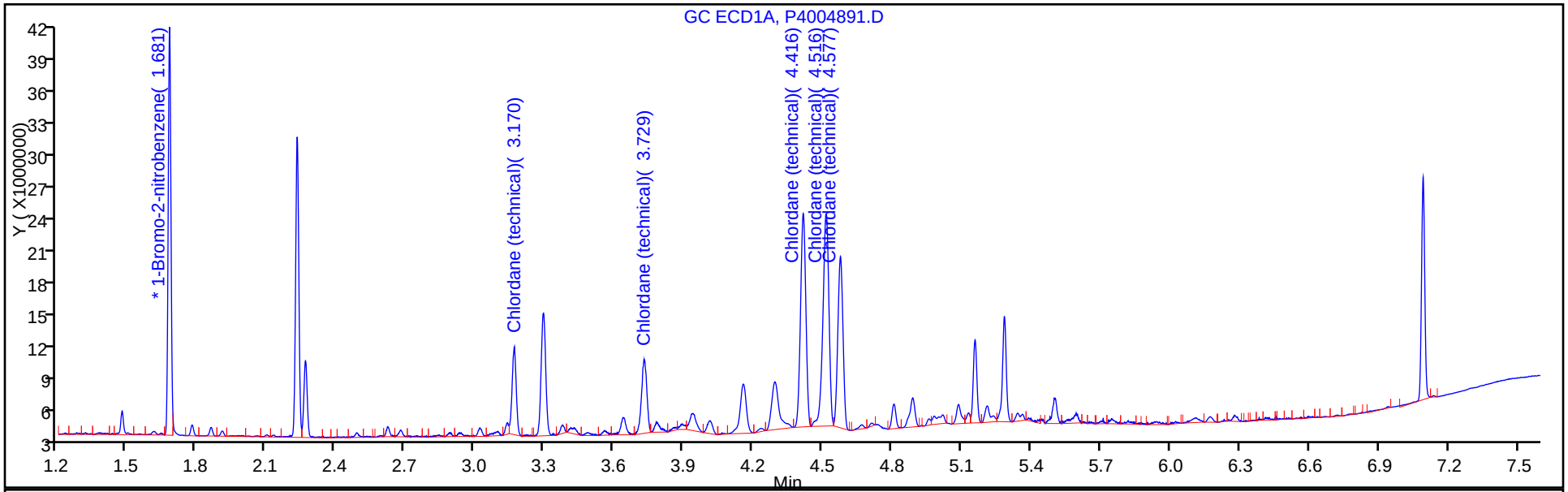
SGCHOL3_00024 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

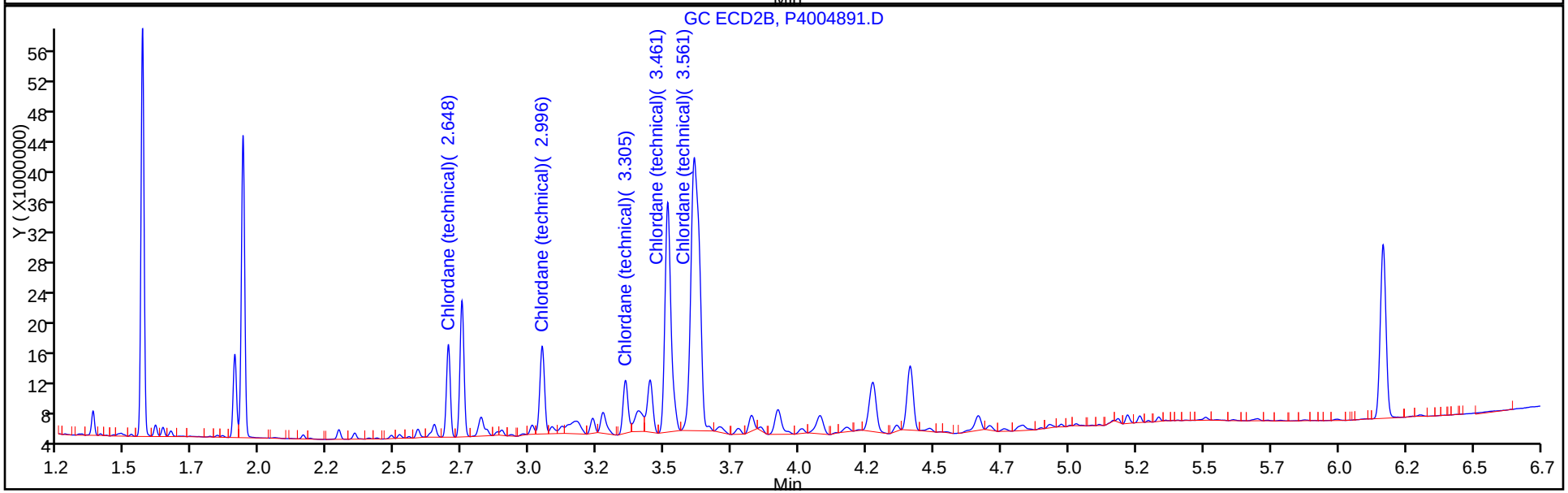
Report Date: 27-Sep-2017 13:43:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D

Injection Date:	27-Sep-2017 10:36:18	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 10:47:51 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-013
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:54 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.680	1.681	-0.001	29195914	100.0	100.0	
2	1.515	1.513	0.002	38631964	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.166	3.170	-0.004	14957926	1500.0	1556.7	
1	3.728	3.729	-0.001	15466508	1500.0	1522.8	
1	4.414	4.416	-0.002	48923562	1500.0	1591.7	
1	4.512	4.516	-0.004	55335075	1500.0	1605.4	
1	4.575	4.577	-0.002	38072751	1500.0	1574.3	
		Average of Peak Amounts =				1570.2	
2	2.649	2.648	0.001	18203584	1500.0	1495.1	
2	2.997	2.996	0.001	21913937	1500.0	1530.5	
2	3.306	3.305	0.001	15194554	1500.0	1524.7	
2	3.463	3.461	0.002	75525910	1500.0	1593.8	
2	3.561	3.561	0.000	128353791	1500.0	1586.1	
		Average of Peak Amounts =				1546.0	
						RPD = 1.55	

Reagents:

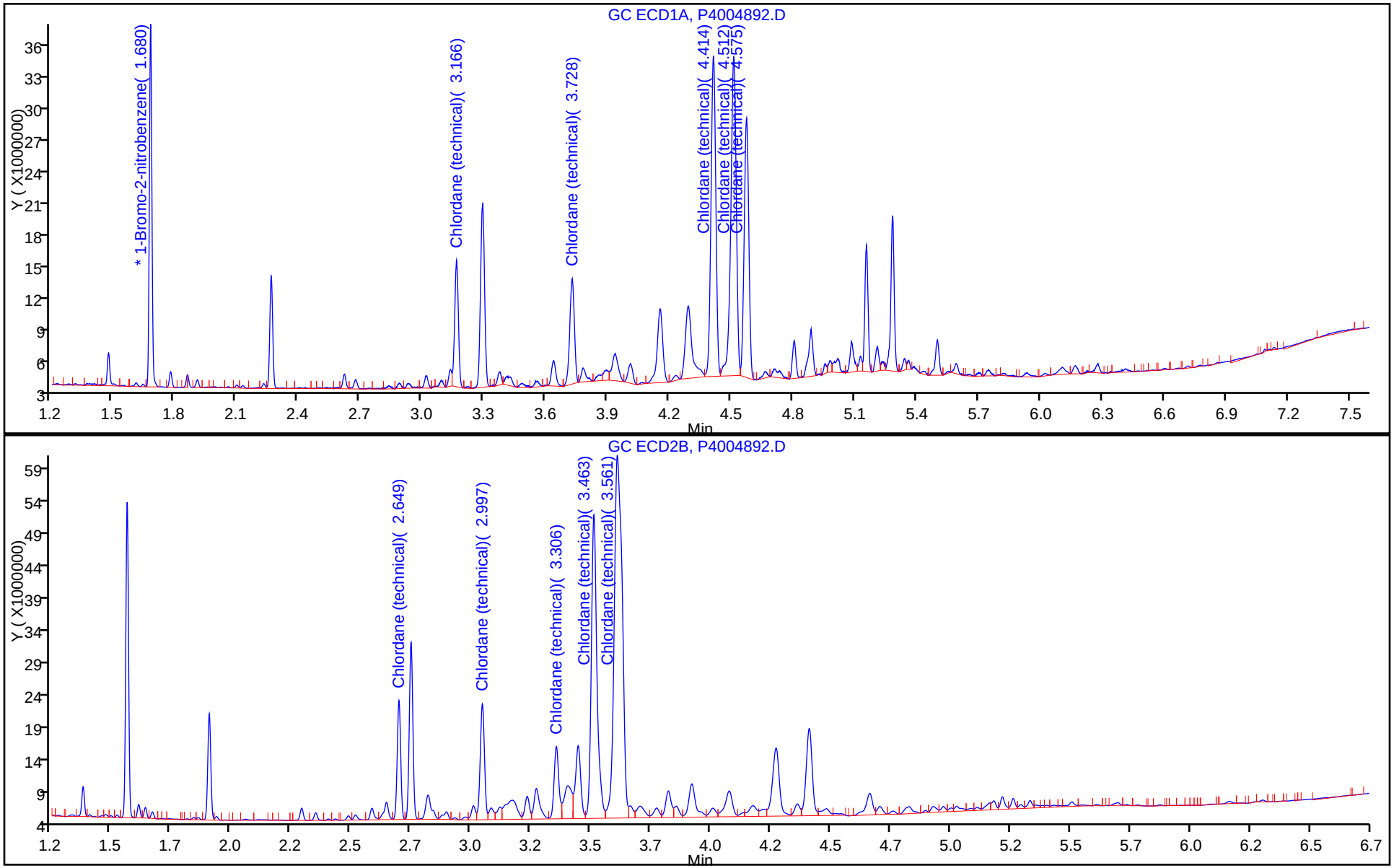
SGCHOL4_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D

Injection Date:	27-Sep-2017 10:47:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 10:59:22 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-014
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:56 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:27:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29219749	100.0	100.0	
2	1.514	1.513	0.001	39334782	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.166	3.170	-0.004	25300336	2500.0	2630.8	M
1	3.727	3.729	-0.002	25197565	2500.0	2478.9	
1	4.413	4.416	-0.003	80909063	2500.0	2630.2	
1	4.512	4.516	-0.004	91240877	2500.0	2645.0	
1	4.574	4.577	-0.003	62495338	2500.0	2582.1	
		Average of Peak Amounts =				2593.4	
2	2.649	2.648	0.001	30239368	2500.0	2439.2	
2	2.998	2.996	0.002	35473864	2500.0	2433.2	
2	3.307	3.305	0.002	24016207	2500.0	2366.8	
2	3.463	3.461	0.002	125169196	2500.0	2594.2	
2	3.561	3.561	0.000	216782599	2500.0	2630.9	
		Average of Peak Amounts =				2492.9	
						RPD = 3.95	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

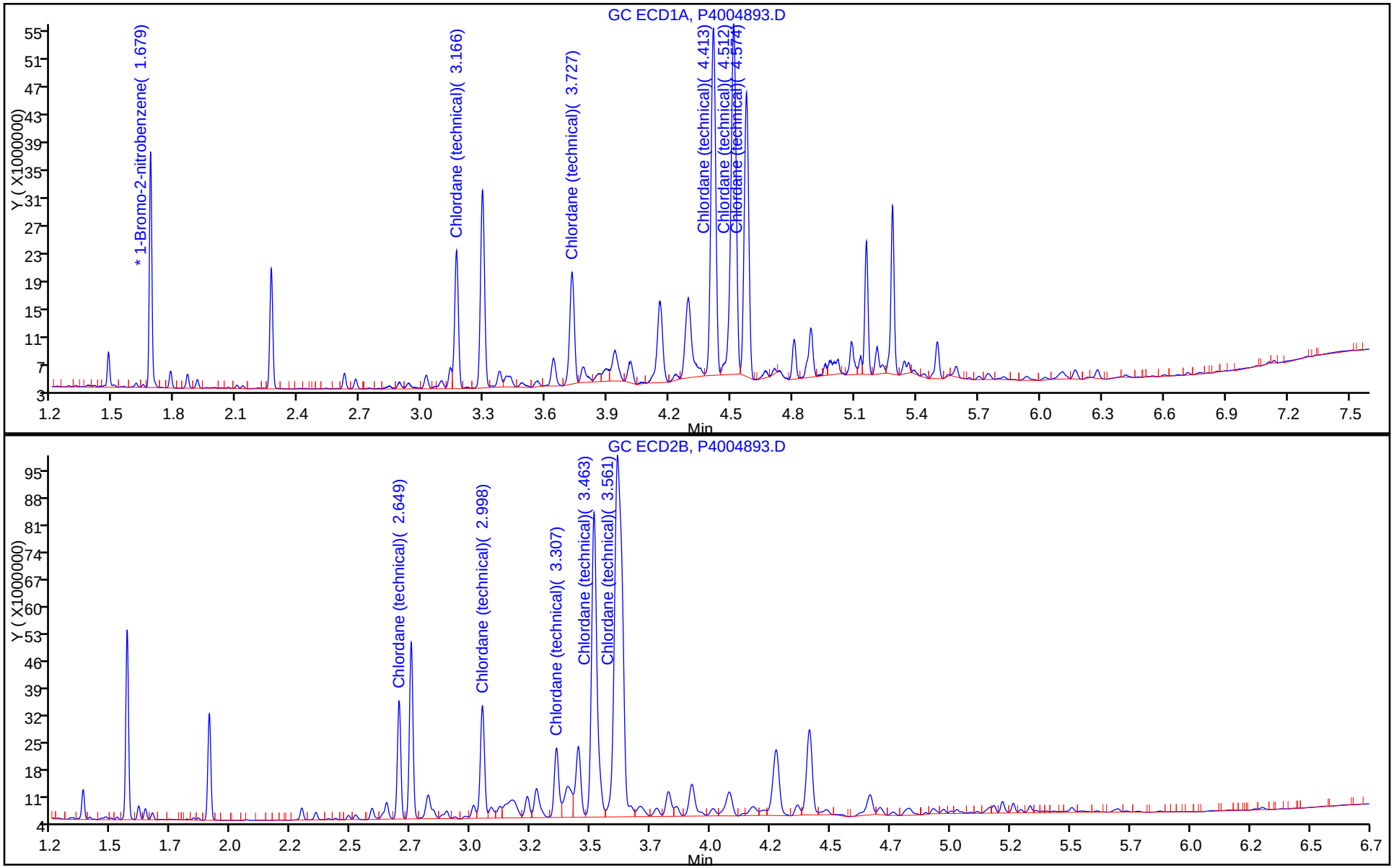
SGCHOL5_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



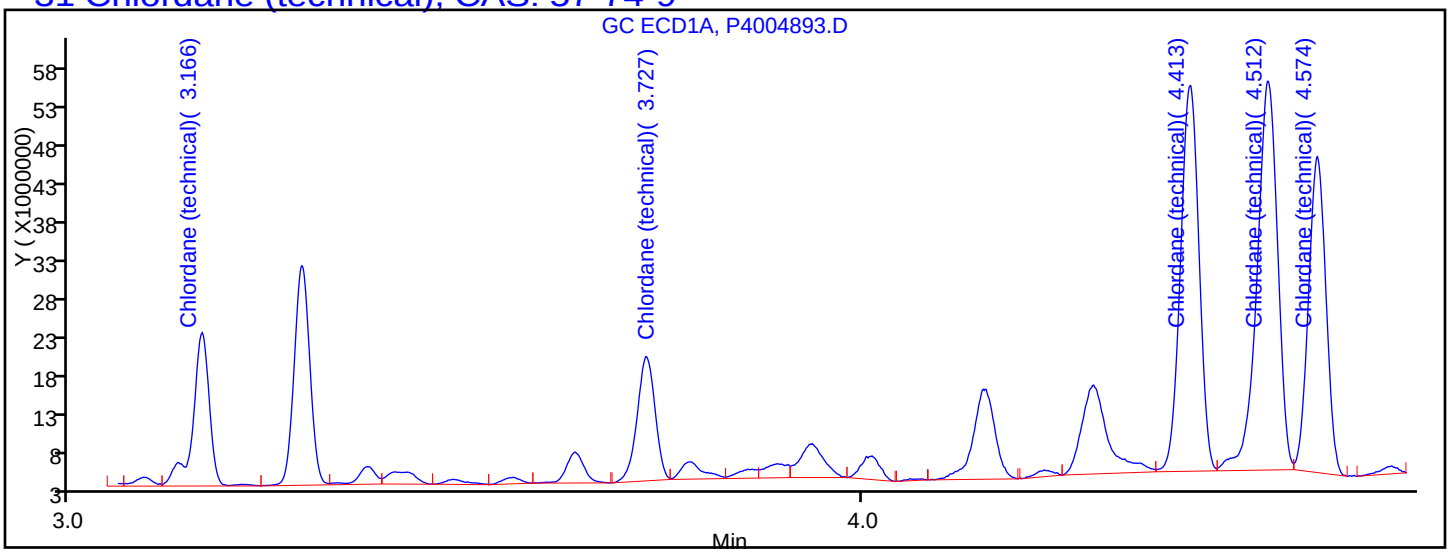
Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

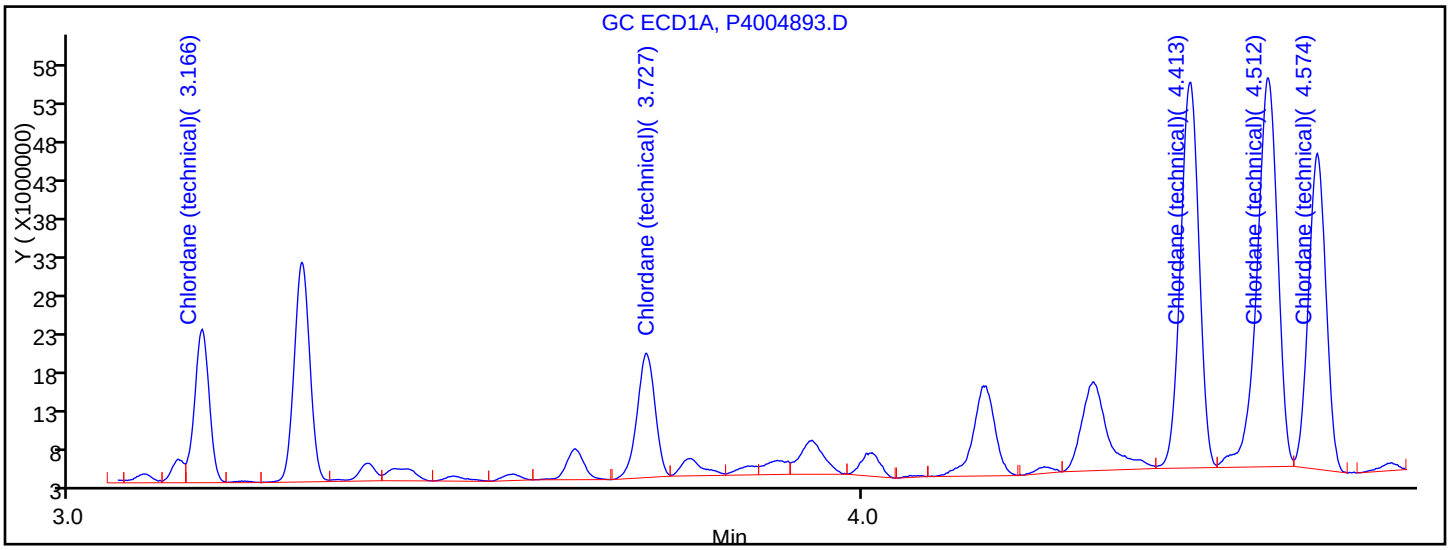
Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4
Lims ID:	IC CHLOL5		
Client ID:			
Operator ID:		ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

3.166	Response = 28951667
3.727	Response = 25197565
4.413	Response = 80909063
4.512	Response = 91240877
4.574	Response = 62495338



Manual Integration Results

3.166	Response = 25300336	M
3.727	Response = 25197565	
4.413	Response = 80909063	
4.512	Response = 91240877	
4.574	Response = 62495338	

Reviewer: kapoors, 27-Sep-2017 11:27:09

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0374	0.0293	0.0287	0.0314	0.0308	Ave		0.0315				11.0		20.0			
Chlordane (technical) Peak 2	0.0415	0.0370	0.0329	0.0378	0.0361	Ave		0.0371				8.3		20.0			
Chlordane (technical) Peak 3	0.0330	0.0242	0.0211	0.0262	0.0244	Ave		0.0258				17.1		20.0			
Chlordane (technical) Peak 4	0.1265	0.1179	0.1113	0.1303	0.1273	Ave		0.1227				6.4		20.0			
Chlordane (technical) Peak 5	0.2106	0.2034	0.1914	0.2215	0.2204	Ave		0.2095				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	790606	5984731	12184846	18203584	30239368	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	876798	7541823	14010087	21913937	35473864	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	696601	4939270	8992530	15194554	24016207	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	2672054	24045192	47345330	75525910	125169196	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	4448525	41495368	81407514	128353791	216782599	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 10:11:34 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-010
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:44 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:24:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.683	1.679	0.004	32928545	100.0	100.0	
2	1.511	1.512	-0.001	42246375	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.174	3.167	0.007	552793	50.0	51.0	M
1	3.738	3.730	0.008	613249	50.0	53.5	
1	4.427	4.417	0.010	1703088	50.0	49.1	a
1	4.525	4.513	0.012	1845488	50.0	47.5	
1	4.589	4.577	0.012	1405221	50.0	51.5	a
		Average of Peak Amounts =				50.5	
2	2.647	2.647	0.000	790606	50.0	59.4	M
2	2.996	2.996	0.000	876798	50.0	56.0	M
2	3.304	3.305	-0.001	696601	50.0	63.9	M
2	3.461	3.462	-0.001	2672054	50.0	51.6	M
2	3.559	3.560	-0.001	4448525	50.0	50.3	M
		Average of Peak Amounts =				56.2	
						RPD = 10.66	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

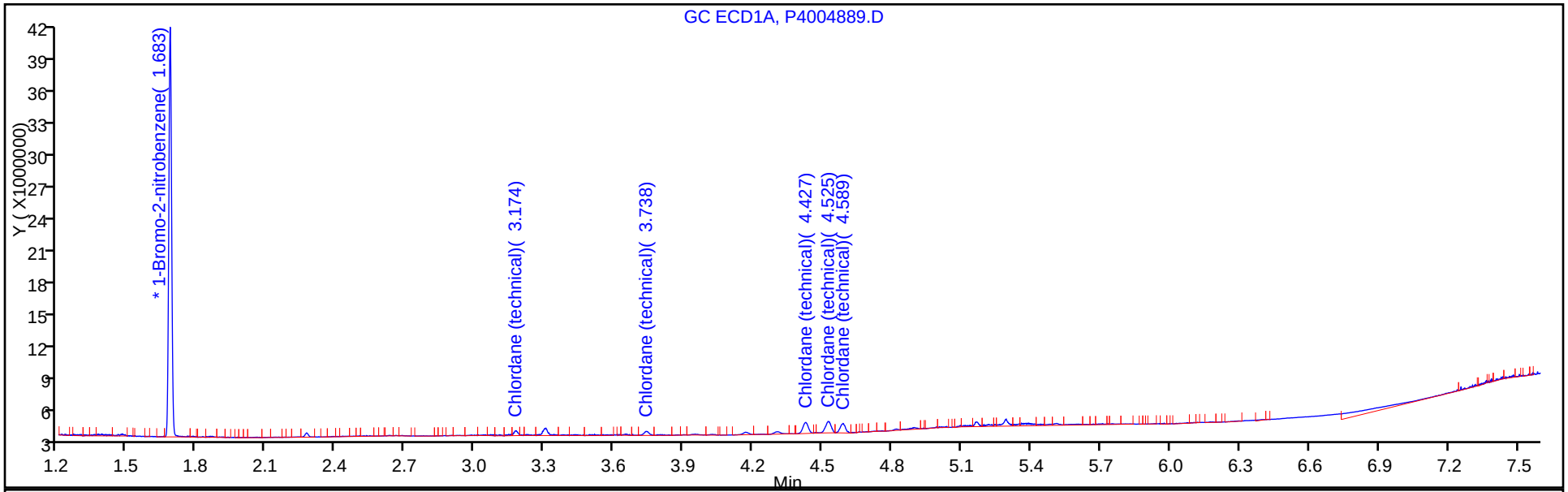
SGCHL608LVIL1_00010	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

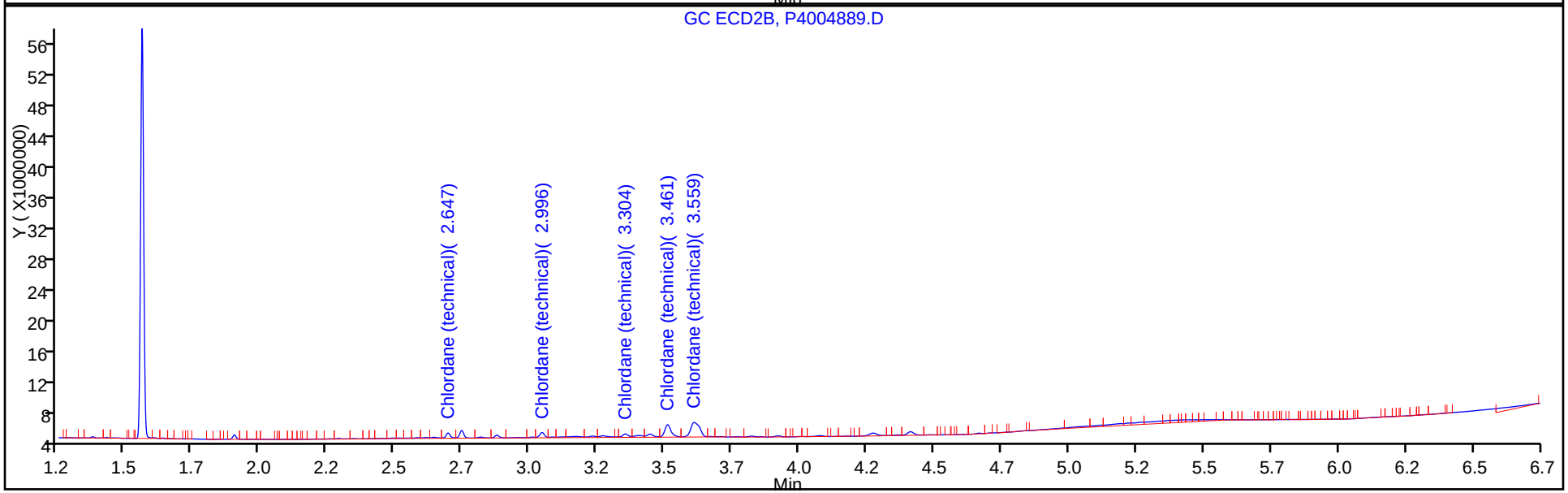
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





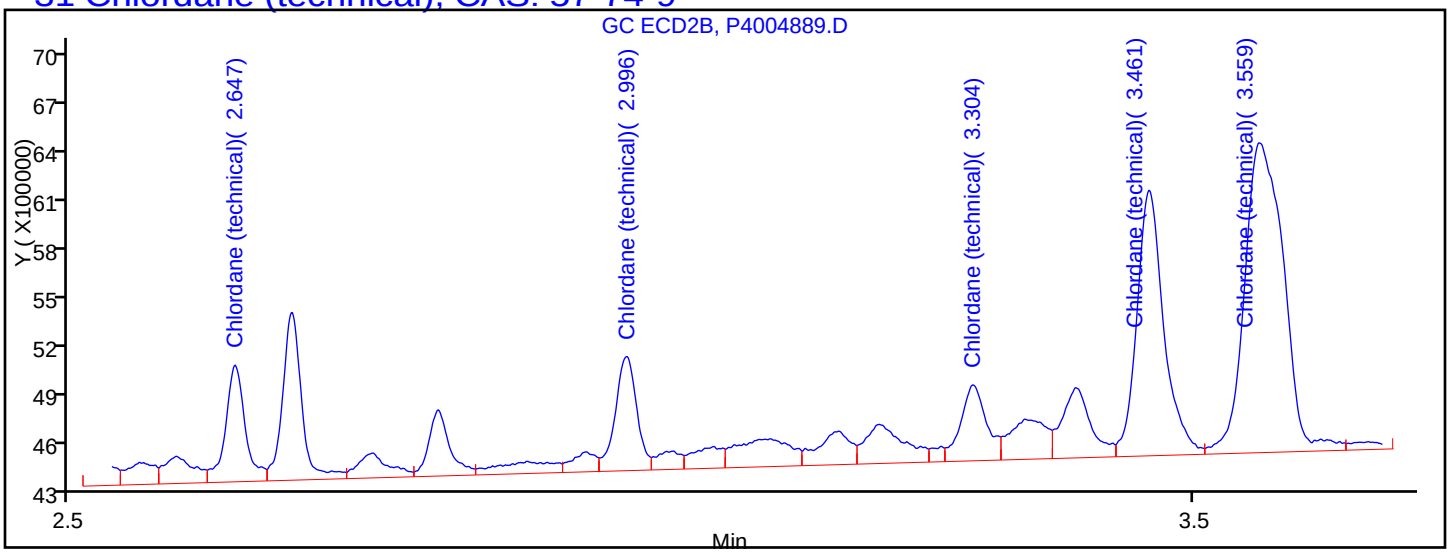
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

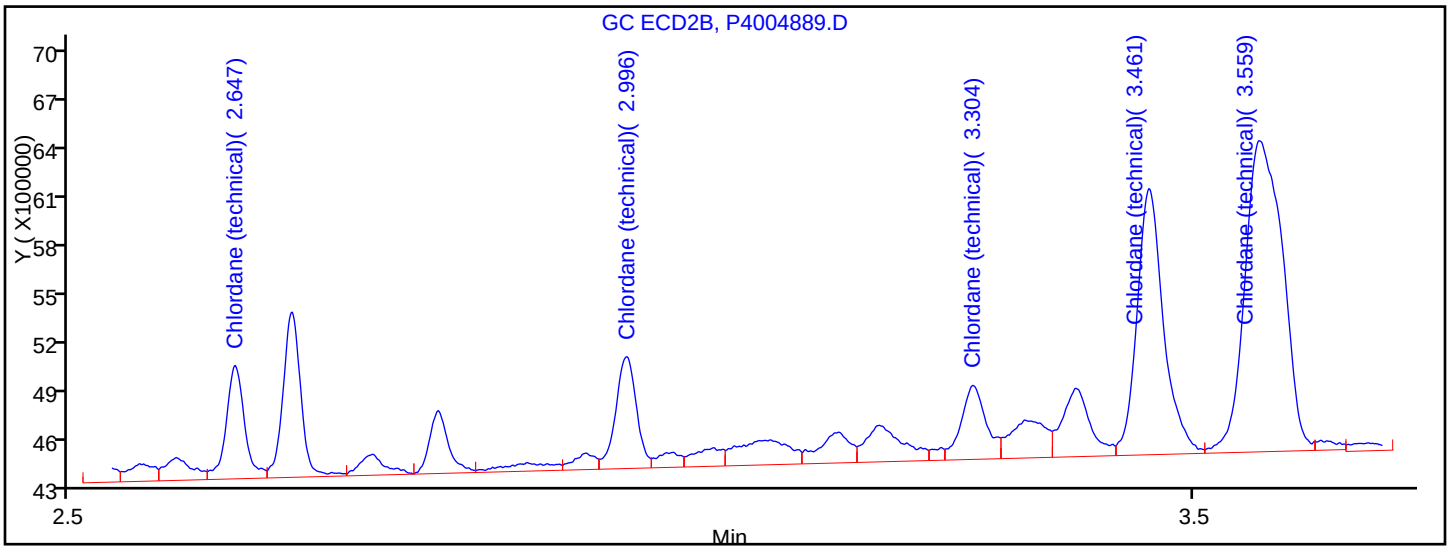
Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4		
Lims ID:	IC CHLOL1				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

2.647	Response = 879288
2.996	Response = 938550
3.304	Response = 747552
3.461	Response = 2739742
3.559	Response = 4619230



Manual Integration Results

2.647	Response = 790606	M
2.996	Response = 876798	M
3.304	Response = 696601	M
3.461	Response = 2672054	M
3.559	Response = 4448525	M

Reviewer: kapoors, 27-Sep-2017 11:28:27

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 10:23:57 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-011
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:48 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	31535813	100.0	100.0	
2	1.513	1.512	0.001	40798744	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.169	3.167	0.002	4773927	500.0	460.0	
1	3.732	3.730	0.002	5079960	500.0	463.1	
1	4.419	4.417	0.002	15814015	500.0	476.3	
1	4.518	4.513	0.005	17952665	500.0	482.2	
1	4.579	4.577	0.002	12374858	500.0	473.7	
		Average of Peak Amounts =				471.1	
2	2.647	2.647	0.000	5984731	500.0	465.4	
2	2.996	2.996	0.000	7541823	500.0	498.8	
2	3.304	3.305	-0.001	4939270	500.0	469.3	
2	3.462	3.462	0.000	24045192	500.0	480.5	
2	3.560	3.560	0.000	41495368	500.0	485.5	
		Average of Peak Amounts =				479.9	
						RPD = 1.86	

Reagents:

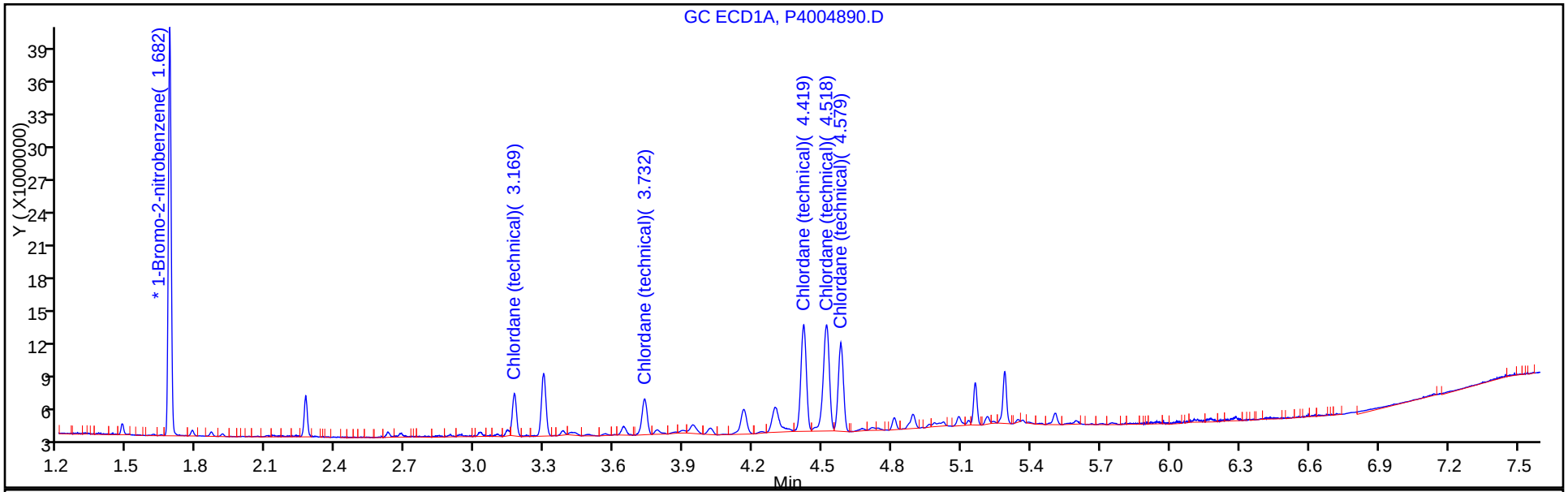
SGCHOL2_00013 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

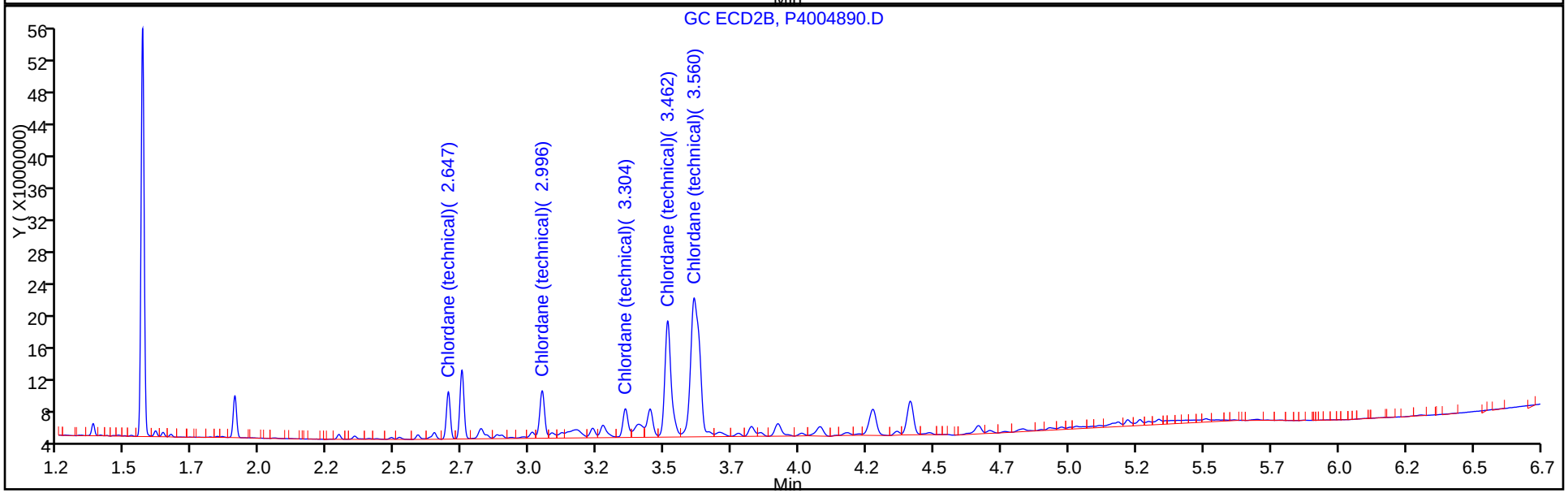
Report Date: 27-Sep-2017 13:43:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D

Injection Date:	27-Sep-2017 10:23:57	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 10:36:18 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-012
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:51 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:21:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31905364	100.0	100.0	
2	1.513	1.513	0.000	42522794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.170	3.170	0.000	10183804	1000.0	969.8	
1	3.729	3.729	0.000	11059593	1000.0	996.4	
1	4.416	4.416	0.000	31964687	1000.0	951.6	
1	4.516	4.516	0.000	36077918	1000.0	957.8	
1	4.577	4.577	0.000	24836816	1000.0	939.8	
		Average of Peak Amounts =				963.1	
2	2.648	2.648	0.000	12184846	1000.0	909.2	
2	2.996	2.996	0.000	14010087	1000.0	888.9	
2	3.305	3.305	0.000	8992530	1000.0	819.8	
2	3.461	3.461	0.000	47345330	1000.0	907.7	
2	3.561	3.561	0.000	81407514	1000.0	913.9	
		Average of Peak Amounts =				887.9	
						RPD = 8.13	

Reagents:

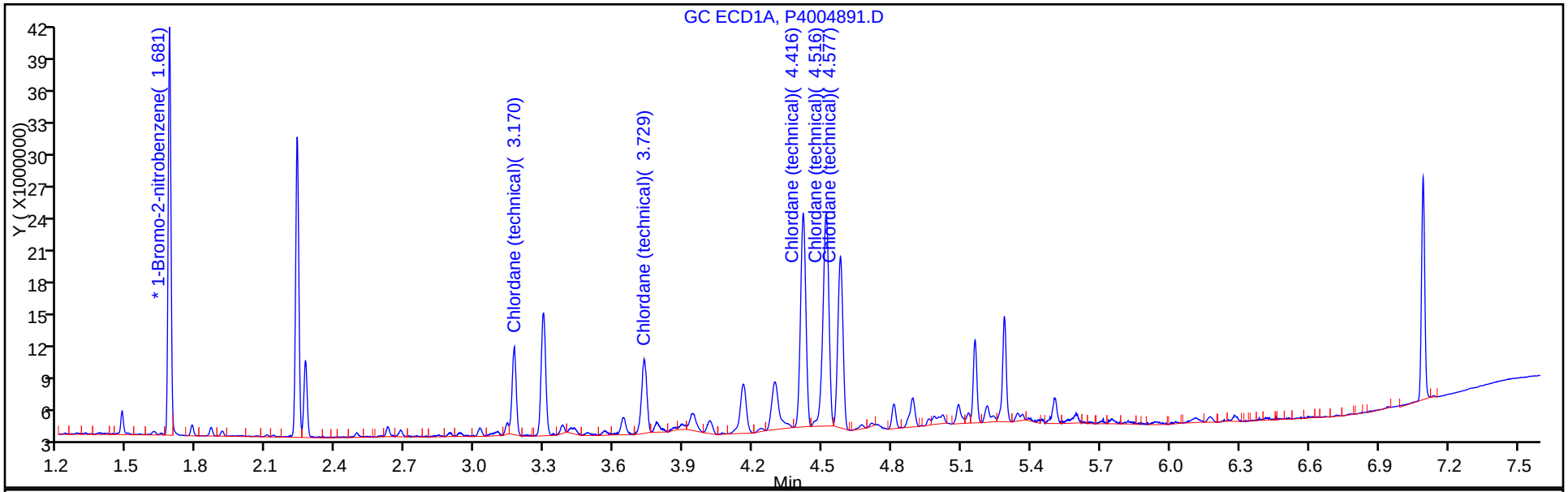
SGCHOL3_00024 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

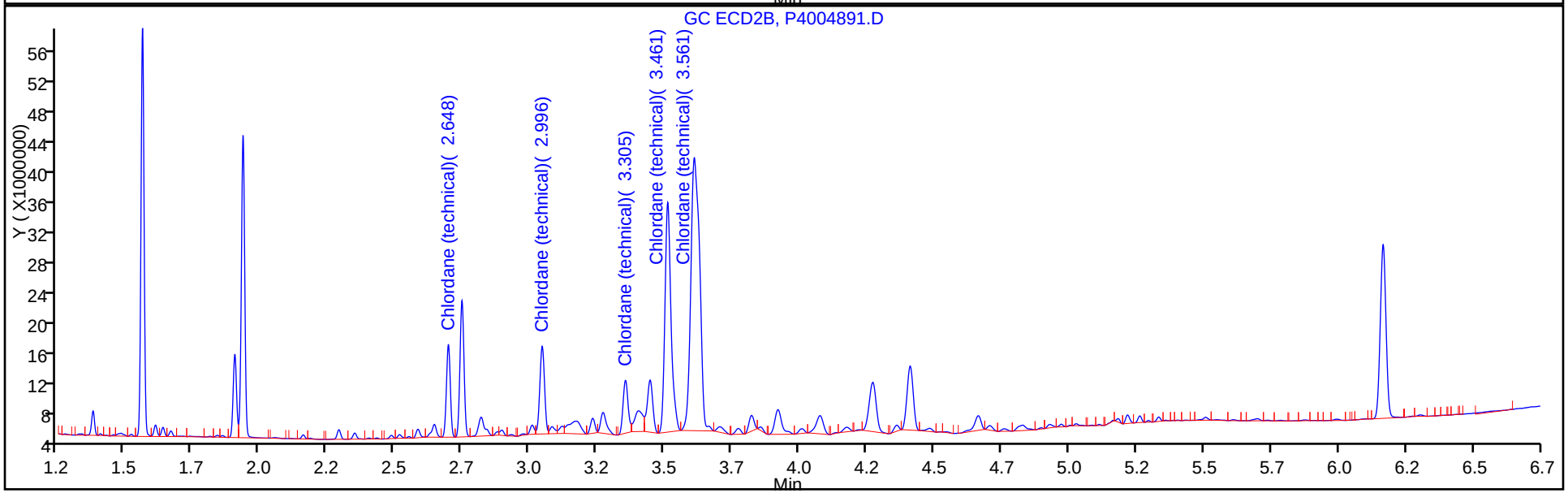
Report Date: 27-Sep-2017 13:43:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D

Injection Date:	27-Sep-2017 10:36:18	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 10:47:51 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-013
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:54 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.680	1.681	-0.001	29195914	100.0	100.0	
2	1.515	1.513	0.002	38631964	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.166	3.170	-0.004	14957926	1500.0	1556.7	
1	3.728	3.729	-0.001	15466508	1500.0	1522.8	
1	4.414	4.416	-0.002	48923562	1500.0	1591.7	
1	4.512	4.516	-0.004	55335075	1500.0	1605.4	
1	4.575	4.577	-0.002	38072751	1500.0	1574.3	
		Average of Peak Amounts =				1570.2	
2	2.649	2.648	0.001	18203584	1500.0	1495.1	
2	2.997	2.996	0.001	21913937	1500.0	1530.5	
2	3.306	3.305	0.001	15194554	1500.0	1524.7	
2	3.463	3.461	0.002	75525910	1500.0	1593.8	
2	3.561	3.561	0.000	128353791	1500.0	1586.1	
		Average of Peak Amounts =				1546.0	
						RPD = 1.55	

Reagents:

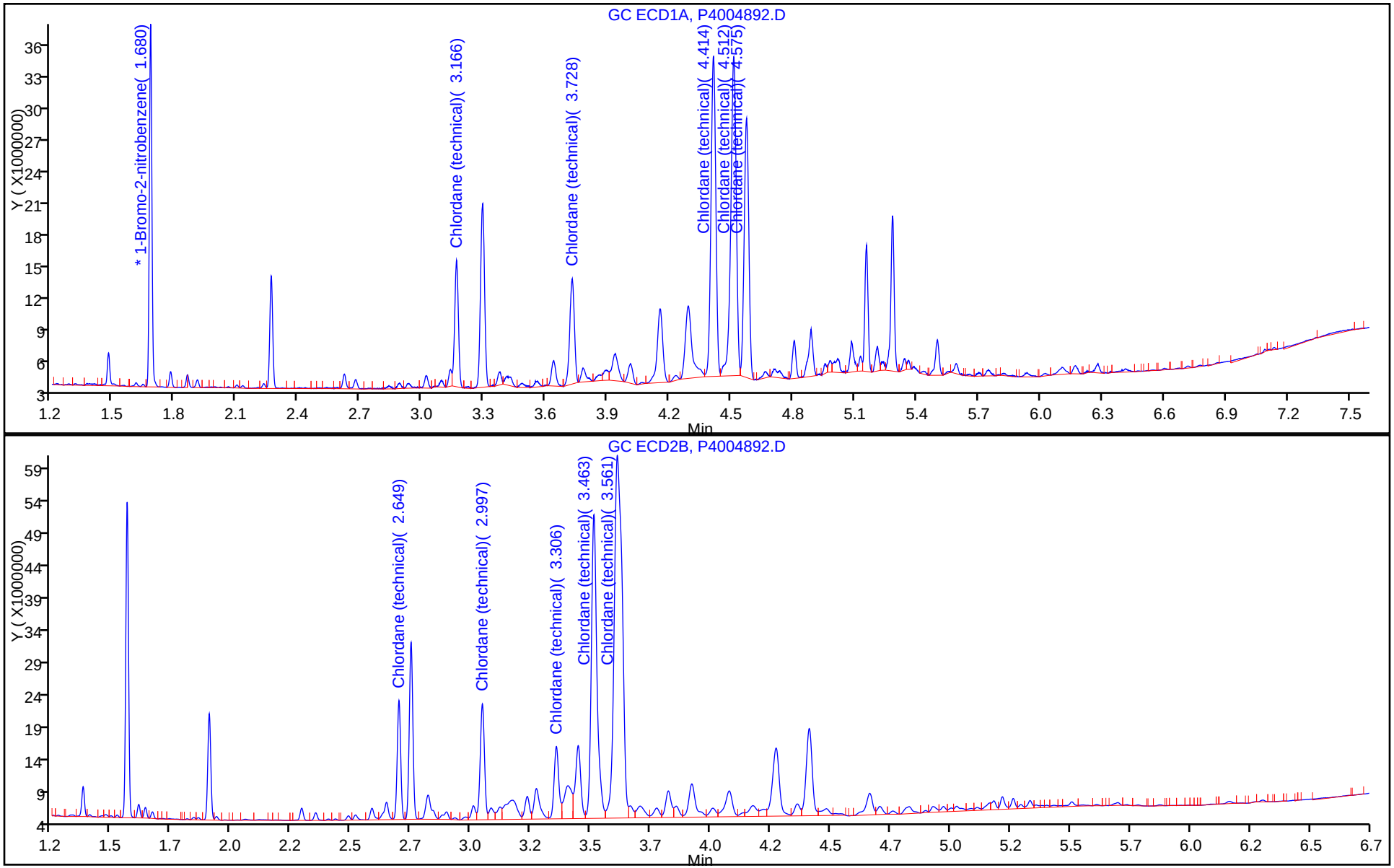
SGCHOL4_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D

Injection Date:	27-Sep-2017 10:47:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 10:59:22 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-014
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:56 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:27:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29219749	100.0	100.0	
2	1.514	1.513	0.001	39334782	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.166	3.170	-0.004	25300336	2500.0	2630.8	M
1	3.727	3.729	-0.002	25197565	2500.0	2478.9	
1	4.413	4.416	-0.003	80909063	2500.0	2630.2	
1	4.512	4.516	-0.004	91240877	2500.0	2645.0	
1	4.574	4.577	-0.003	62495338	2500.0	2582.1	
		Average of Peak Amounts =				2593.4	
2	2.649	2.648	0.001	30239368	2500.0	2439.2	
2	2.998	2.996	0.002	35473864	2500.0	2433.2	
2	3.307	3.305	0.002	24016207	2500.0	2366.8	
2	3.463	3.461	0.002	125169196	2500.0	2594.2	
2	3.561	3.561	0.000	216782599	2500.0	2630.9	
		Average of Peak Amounts =				2492.9	
						RPD = 3.95	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

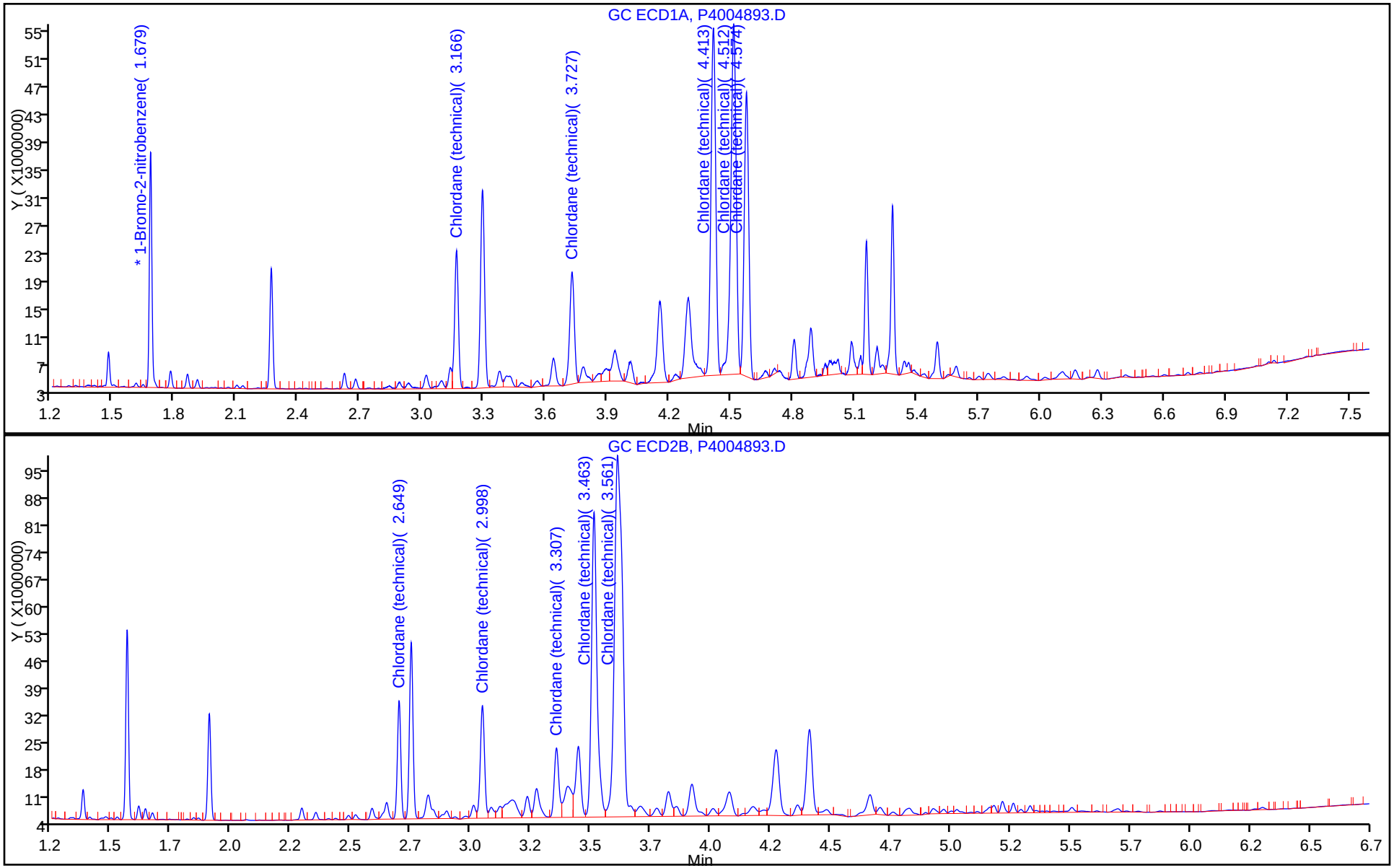
SGCHOL5_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64225

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0180	0.0239	0.0217	0.0225	0.0213	Ave		0.0215				10.3		20.0			
Toxaphene Peak 2	0.0296	0.0394	0.0300	0.0315	0.0293	Ave		0.0320				13.3		20.0			
Toxaphene Peak 3	0.0531	0.0777	0.0603	0.0650	0.0599	Ave		0.0632				14.5		20.0			
Toxaphene Peak 4	0.0311	0.0442	0.0383	0.0405	0.0363	Ave		0.0381				12.8		20.0			
Toxaphene Peak 5	0.0243	0.0347	0.0312	0.0354	0.0331	Ave		0.0317				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64225

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	281620	3667366	6787919	9719704	15522275	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	464415	6039262	9379996	13601842	21327742	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	832967	11908262	18824836	28066404	43633700	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	488208	6770393	11968988	17469713	26400627	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	380508	5311371	9746148	15294665	24063742	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D
Lims ID: IC TOX L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 11:11:38 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-015
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:00 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:10:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.681	0.001	31368203	100.0	100.0	
2	1.515	1.513	0.002	40978483	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.868	4.862	0.006	281620	50.0	41.8	M
1	5.243	5.242	0.001	464415	50.0	46.3	M
1	5.309	5.307	0.002	832967	50.0	42.0	M
1	5.482	5.482	0.000	488208	50.0	40.9	M
1	5.899	5.897	0.002	380508	50.0	38.2	M
		Average of Peak Amounts =				41.8	
2	4.113	4.108	0.005	348508	50.0	36.0	
2	4.762	4.758	0.004	443786	50.0	39.0	M
2	4.935	4.929	0.006	518131	50.0	43.1	M
2	5.010	5.007	0.003	1019543	50.0	58.5	M
2	5.074	5.072	0.002	813581	50.0	50.7	M
		Average of Peak Amounts =				45.5	
						RPD = 8.29	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

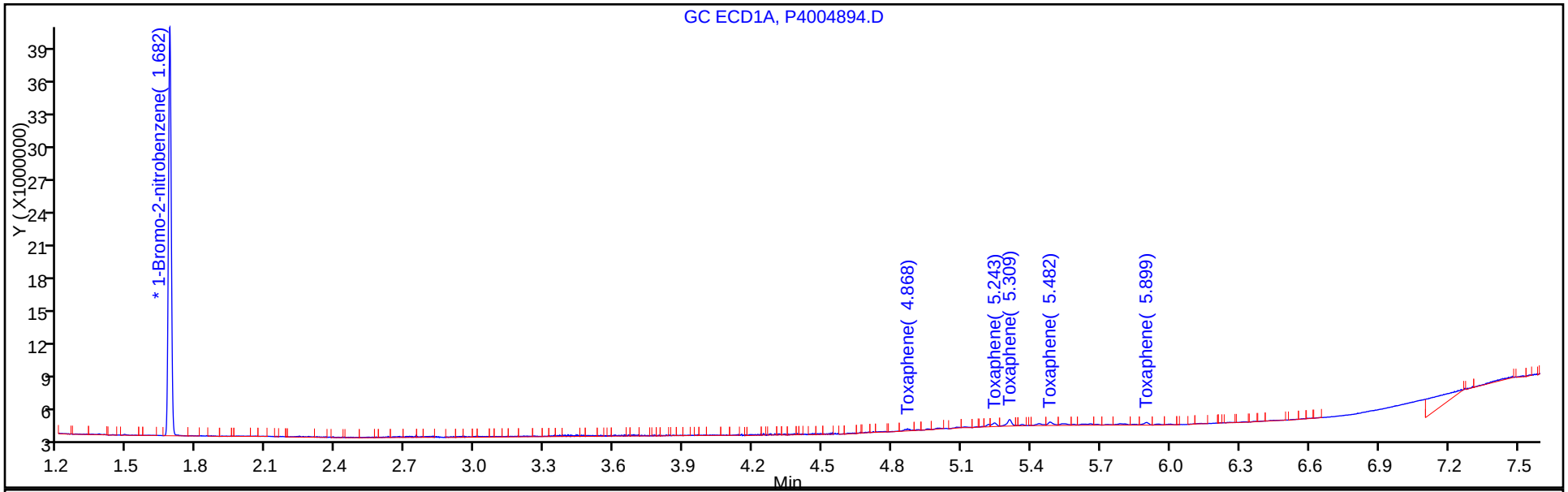
SGTOX608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

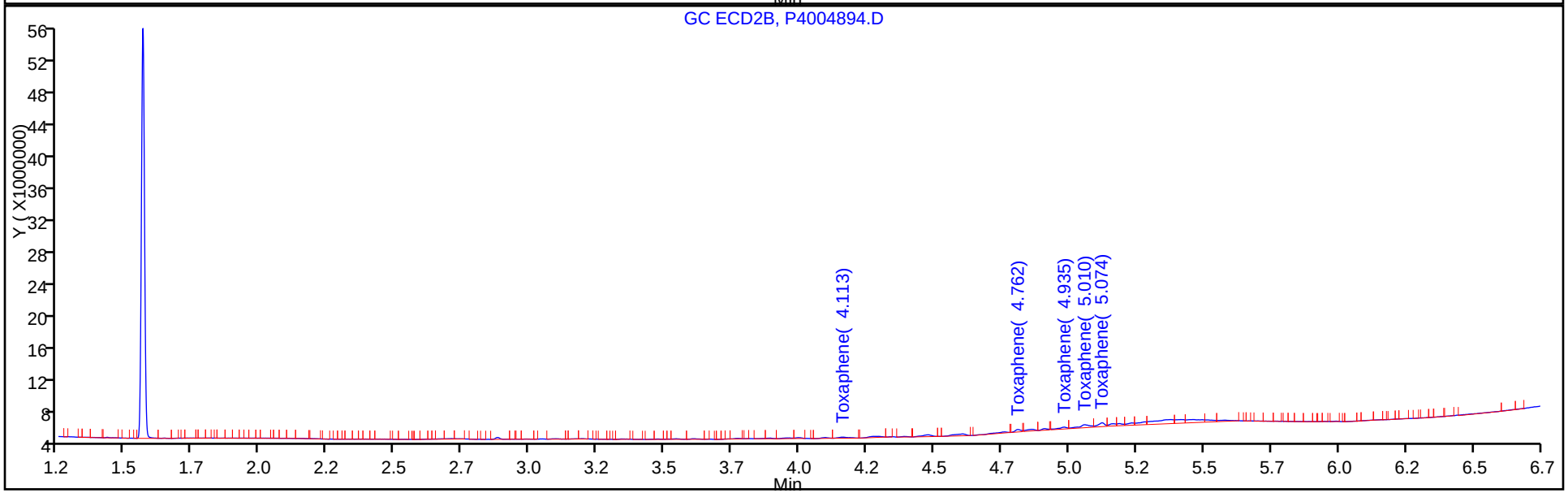
Report Date: 27-Sep-2017 13:44:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L1			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





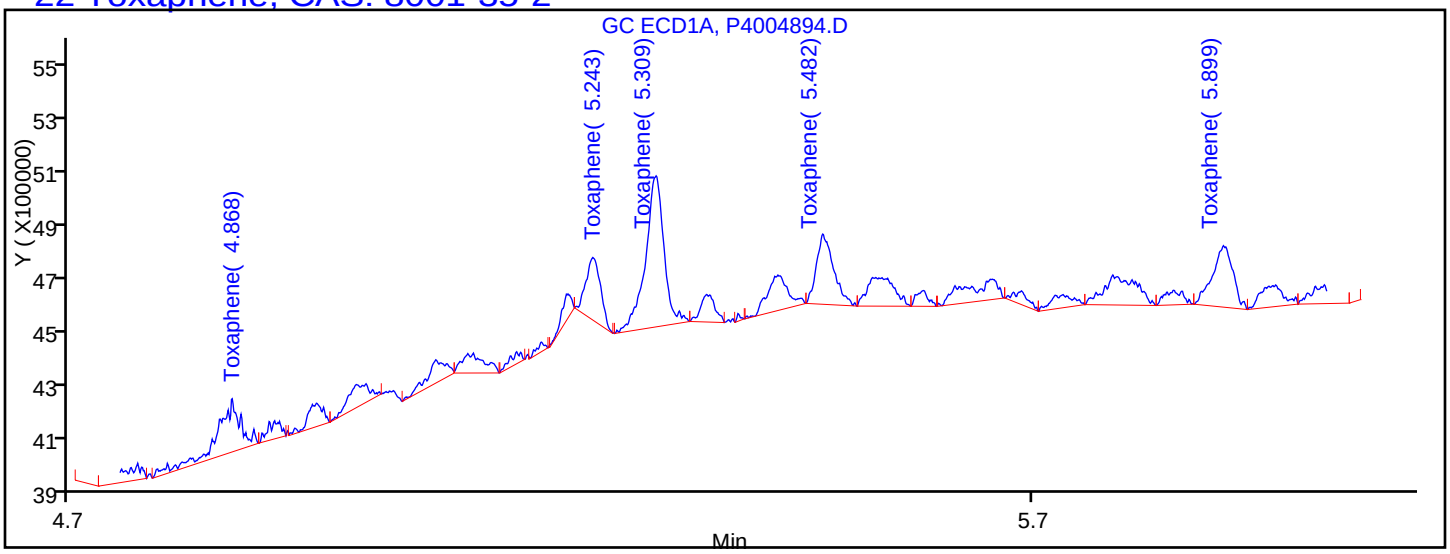
Report Date: 27-Sep-2017 13:44:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

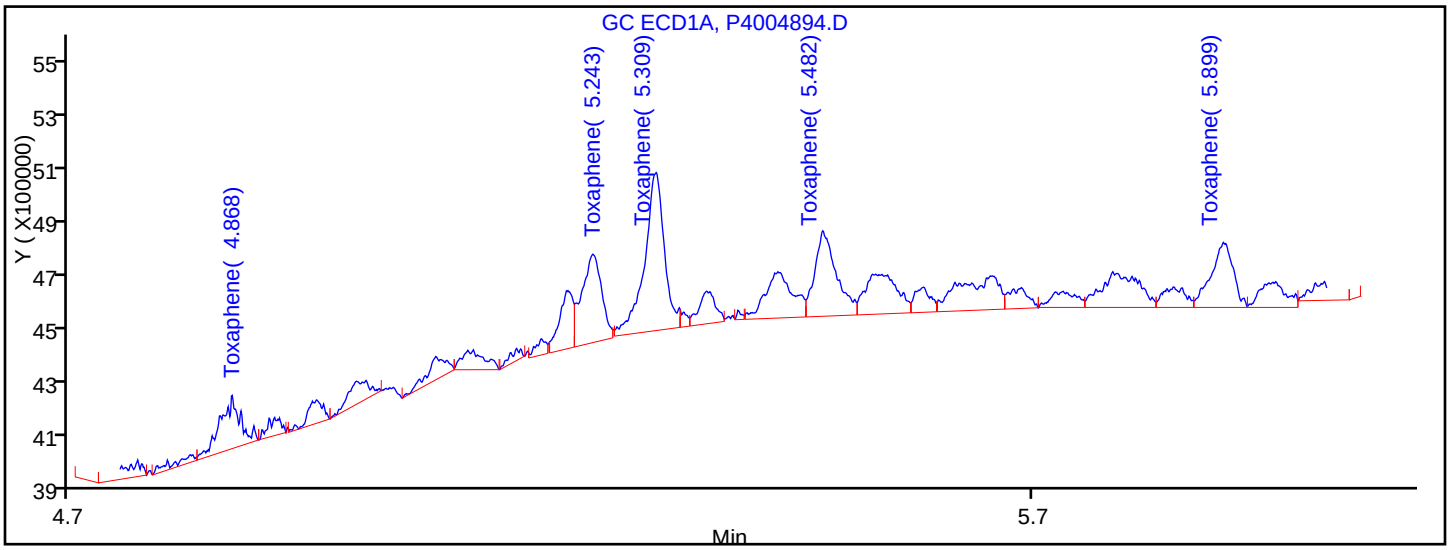
Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4
Lims ID:	IC TOX L1		
Client ID:			
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.868	Response = 331516
5.243	Response = 244154
5.309	Response = 741540
5.482	Response = 318838
5.899	Response = 333270



Manual Integration Results

4.868	Response = 281620	M
5.243	Response = 464415	M
5.309	Response = 832967	M
5.482	Response = 488208	M
5.899	Response = 380508	M

Reviewer: patelji, 27-Sep-2017 12:24:22

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D
Lims ID: IC TOX L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 11:23:09 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-016
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:04 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:11:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	30651273	100.0	100.0	
2	1.516	1.513	0.003	41110675	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.862	0.001	3667366	500.0	556.7	M
1	5.245	5.242	0.003	6039262	500.0	616.3	
1	5.307	5.307	0.000	11908262	500.0	614.6	
1	5.482	5.482	0.000	6770393	500.0	580.2	
1	5.896	5.897	-0.001	5311371	500.0	546.2	
		Average of Peak Amounts =				582.8	
2	4.112	4.108	0.004	5082738	500.0	523.4	M
2	4.761	4.758	0.003	6412967	500.0	562.4	M
2	4.931	4.929	0.002	7402802	500.0	613.8	M
2	5.007	5.007	0.000	9335674	500.0	533.5	M
2	5.073	5.072	0.001	9003982	500.0	559.3	M
		Average of Peak Amounts =				558.5	
						RPD = 4.26	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

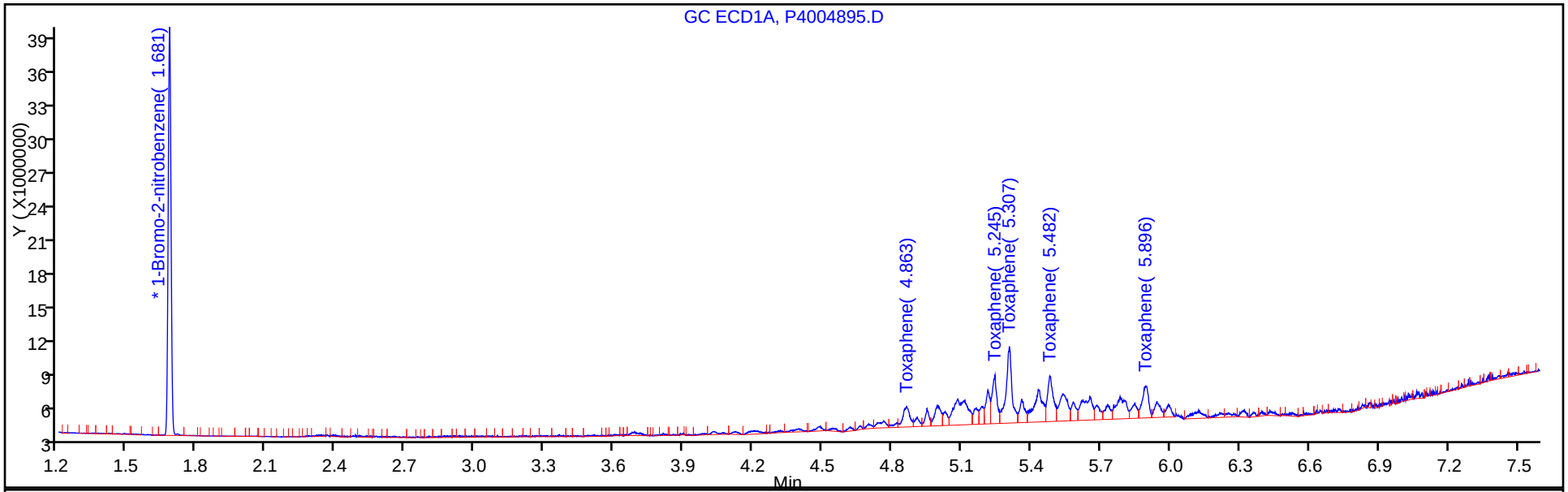
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

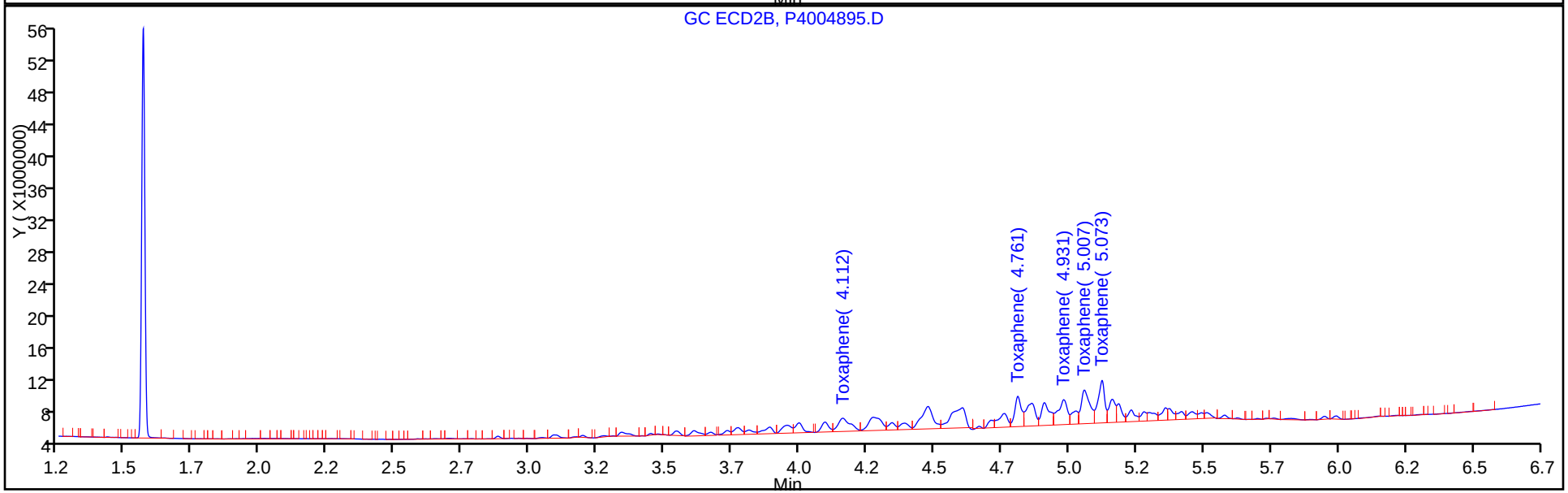
Report Date: 27-Sep-2017 13:44:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





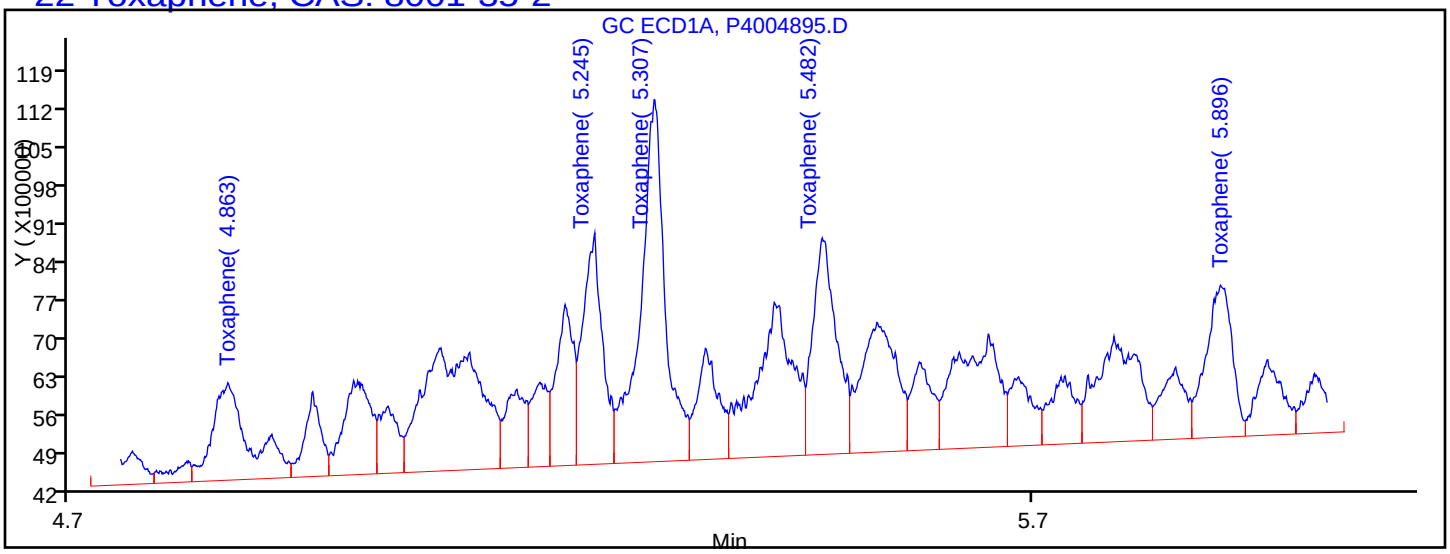
Report Date: 27-Sep-2017 13:44:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

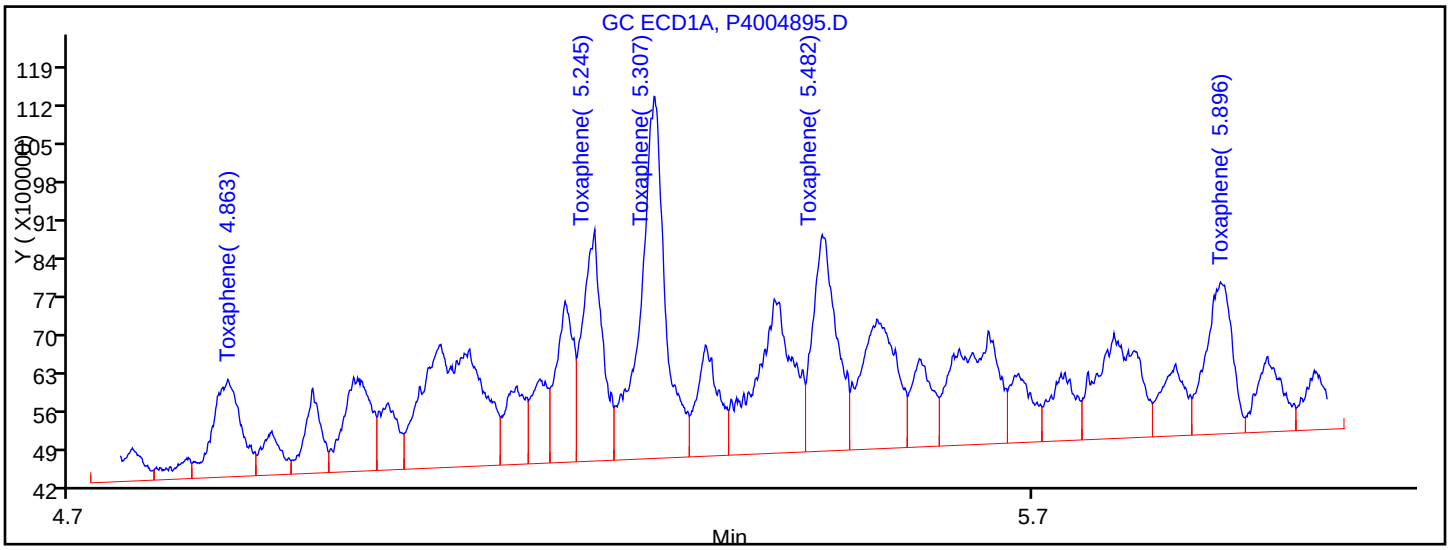
Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L2				
Client ID:					
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.863	Response = 4779007
5.245	Response = 6039262
5.307	Response = 11908262
5.482	Response = 6770393
5.896	Response = 5311371



Manual Integration Results

4.863	Response = 3667366	M
5.245	Response = 6039262	
5.307	Response = 11908262	
5.482	Response = 6770393	
5.896	Response = 5311371	

Reviewer: kapoors, 27-Sep-2017 12:10:57

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D
Lims ID: IC TOX L3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 11:34:40 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-017
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:07 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:07:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31242827	100.0	100.0	
2	1.515	1.515	0.000	42903673	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.863	0.000	6787919	1000.0	1010.9	M
1	5.244	5.244	0.000	9379996	1000.0	939.0	M
1	5.307	5.307	0.000	18824836	1000.0	953.2	M
1	5.483	5.483	0.000	11968988	1000.0	1006.2	M
1	5.898	5.898	0.000	9746148	1000.0	983.4	M
		Average of Peak Amounts =				978.5	
2	4.113	4.113	0.000	9510025	1000.0	938.5	M
2	4.762	4.762	0.000	11731990	1000.0	985.9	M
2	4.932	4.932	0.000	9736270	1000.0	773.5	M
2	5.009	5.009	0.000	16355641	1000.0	895.7	M
2	5.074	5.074	0.000	15828268	1000.0	942.1	M
		Average of Peak Amounts =				907.1	
						RPD = 7.57	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

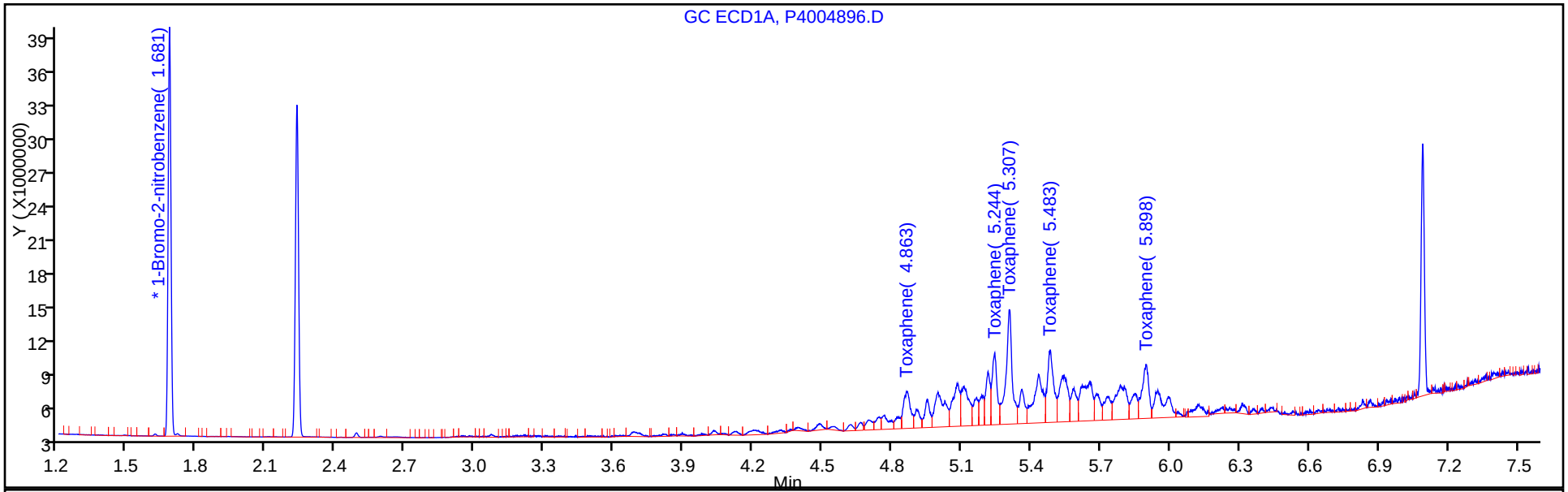
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

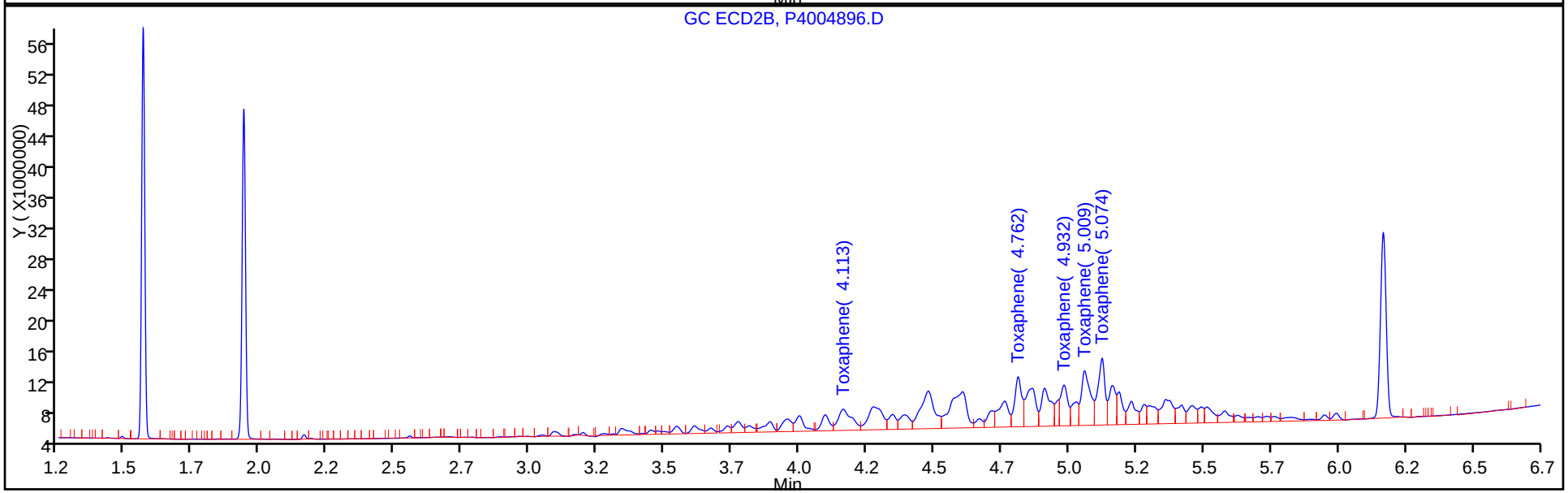
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L3			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





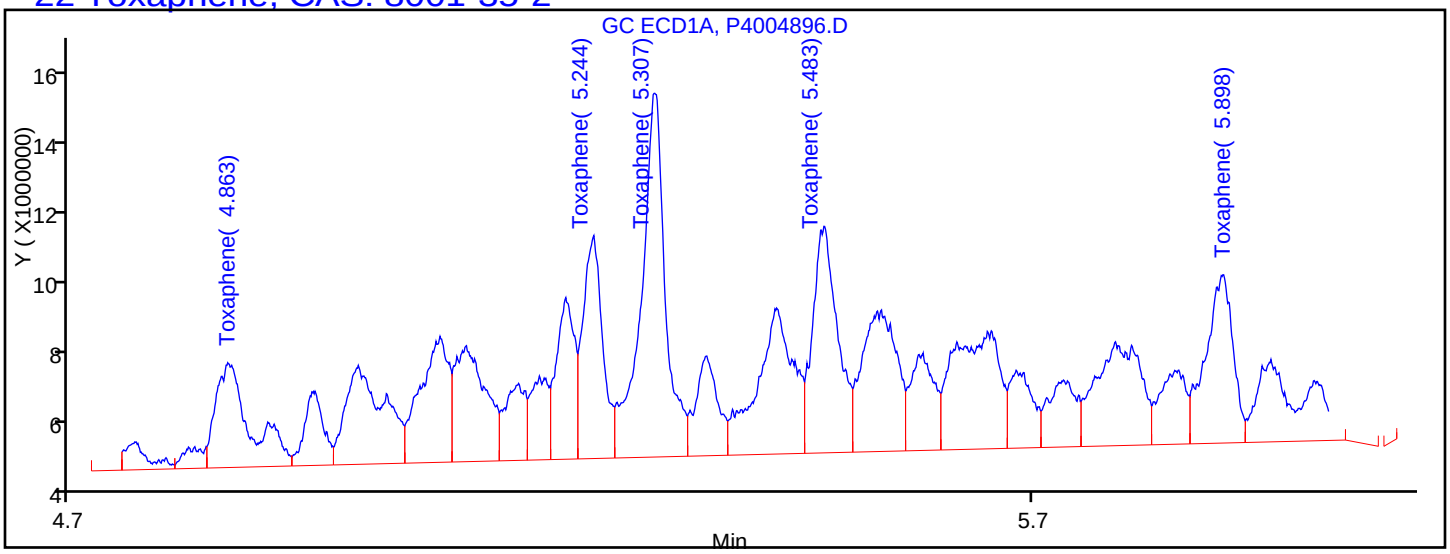
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

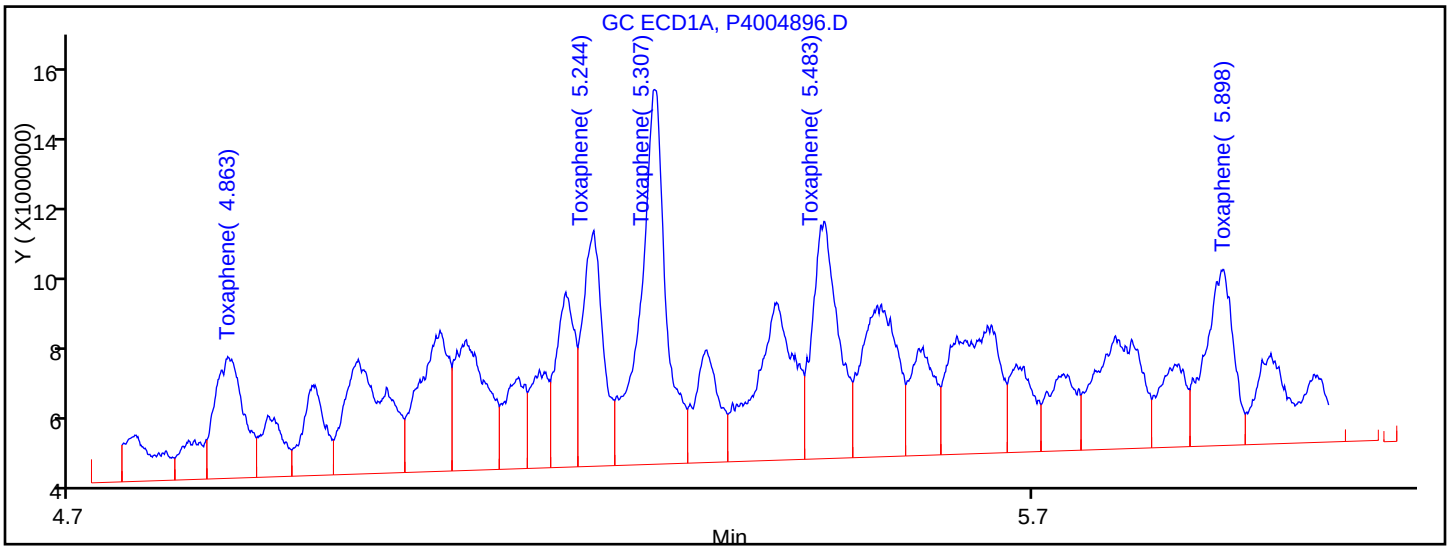
Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L3				
Client ID:					
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.863	Response = 6948309
5.244	Response = 8475871
5.307	Response = 17094207
5.483	Response = 10951502
5.898	Response = 8887566



Manual Integration Results

4.863	Response = 6787919	M
5.244	Response = 9379996	M
5.307	Response = 18824836	M
5.483	Response = 11968988	M
5.898	Response = 9746148	M

Reviewer: patelji, 27-Sep-2017 12:23:47

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D
Lims ID: IC TOX L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 11:46:11 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-018
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:11 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29120301	100.0	100.0	
2	1.514	1.515	-0.001	39923427	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	15522275	2500.0	2480.2	M
1	5.241	5.244	-0.003	21327742	2500.0	2290.8	M
1	5.307	5.307	0.000	43633700	2500.0	2370.5	M
1	5.483	5.483	0.000	26400627	2500.0	2381.2	M
1	5.898	5.898	0.000	24063742	2500.0	2604.9	M
		Average of Peak Amounts =				2425.5	
2	4.111	4.113	-0.002	25532898	2500.0	2707.7	M
2	4.761	4.762	-0.001	27605989	2500.0	2493.1	M
2	4.932	4.932	0.000	29388597	2500.0	2509.1	M
2	5.008	5.009	-0.001	36852578	2500.0	2168.8	M
2	5.073	5.074	-0.001	35030731	2500.0	2240.6	M
		Average of Peak Amounts =				2423.9	
						RPD = 0.07	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

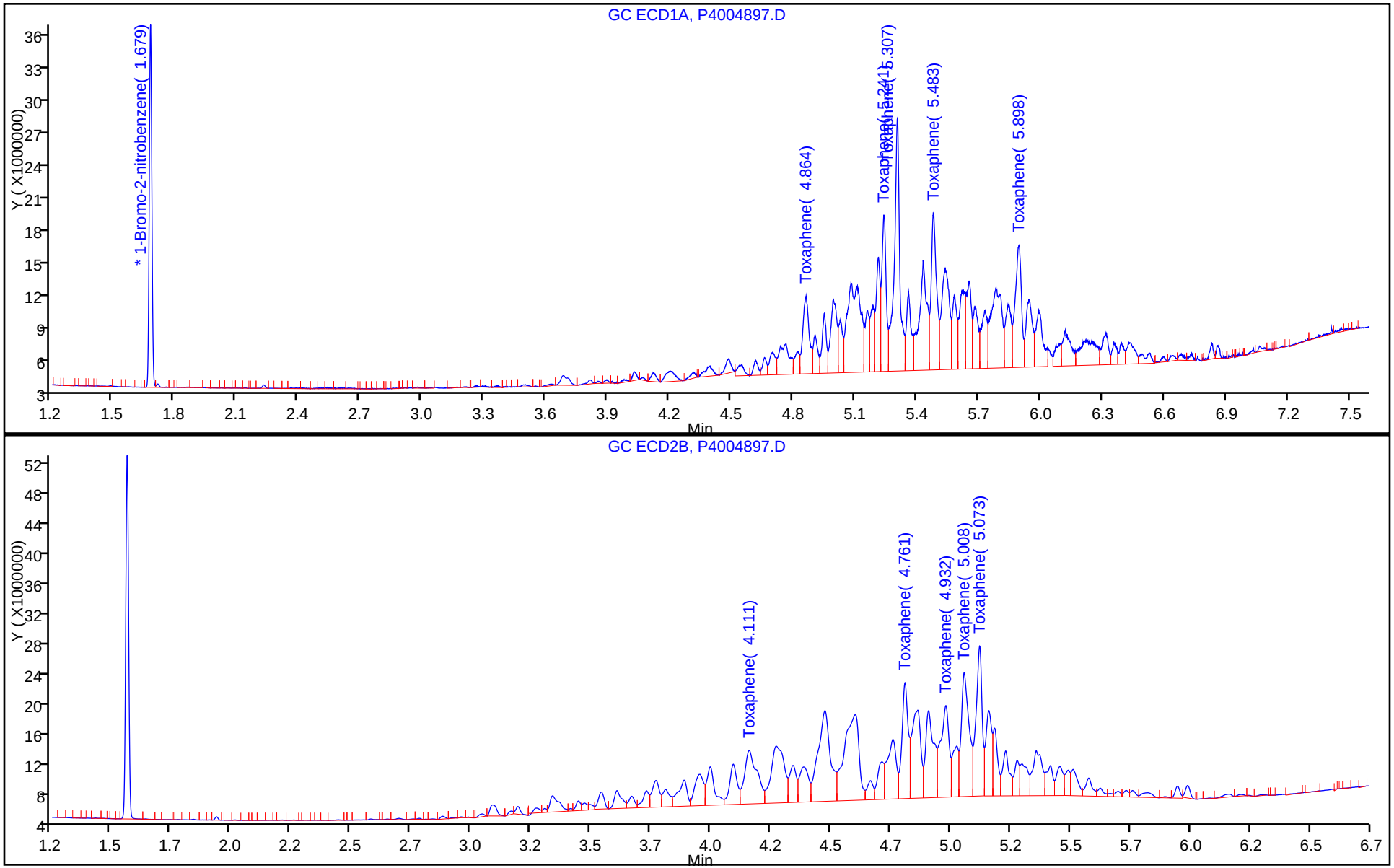
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:44:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L5			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



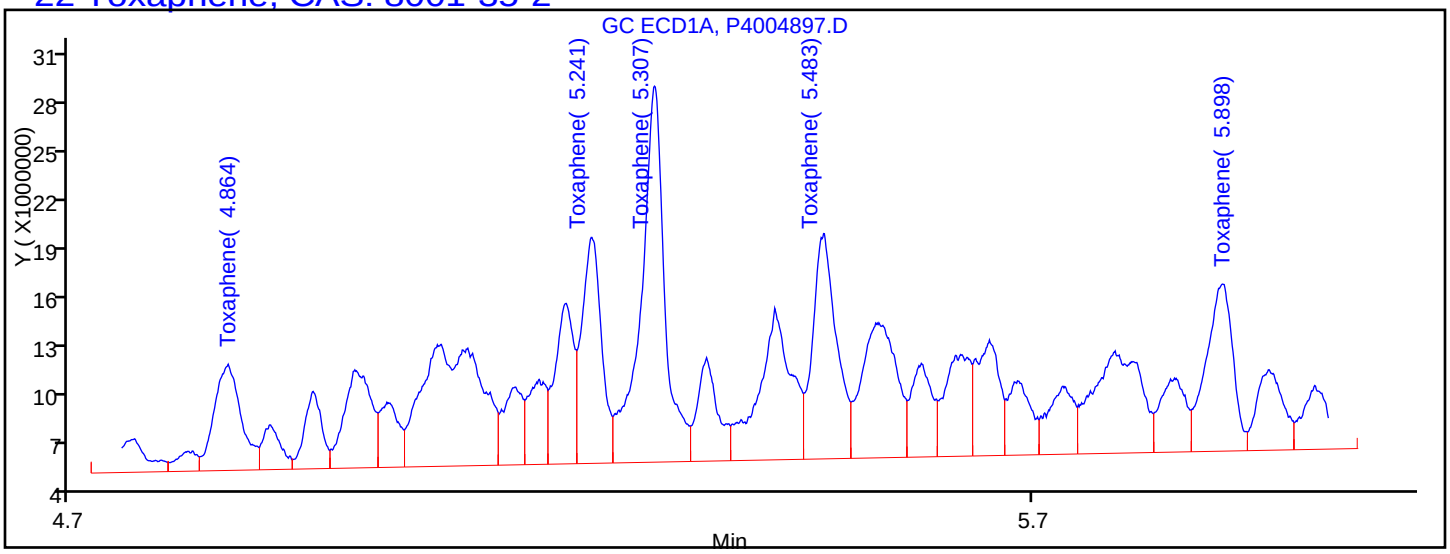
Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

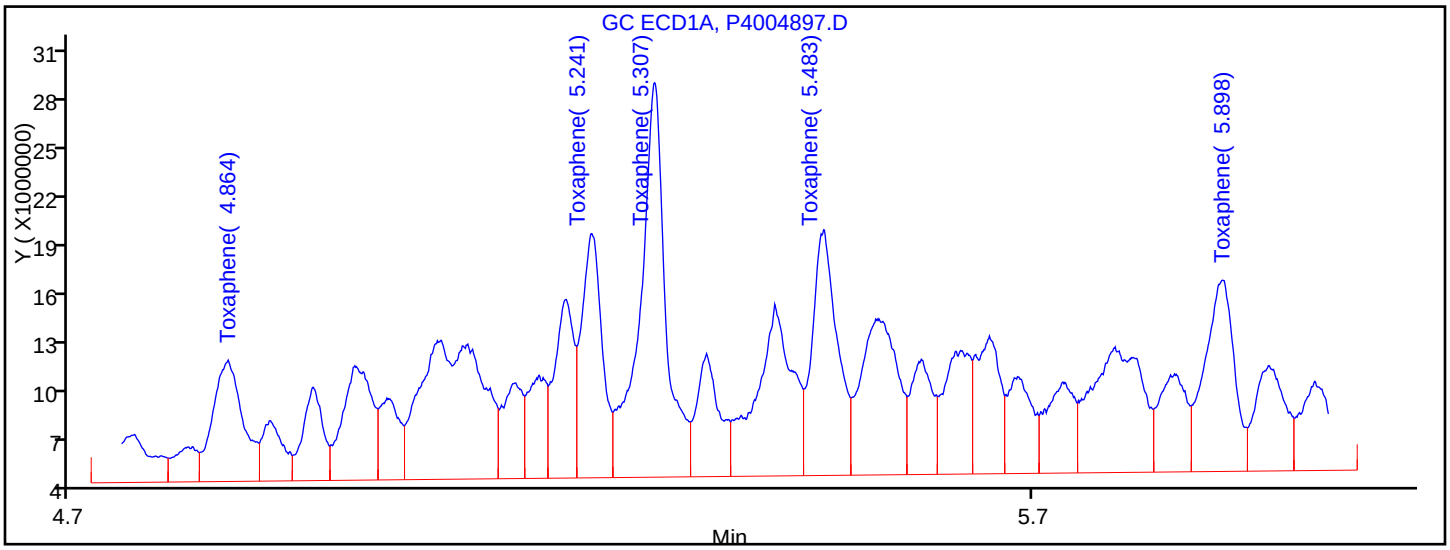
Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L5				
Client ID:					
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.864	Response = 12134101
5.241	Response = 18848246
5.307	Response = 38139121
5.483	Response = 22777348
5.898	Response = 19019201



Manual Integration Results

4.864	Response = 15522275	M
5.241	Response = 21327742	M
5.307	Response = 43633700	M
5.483	Response = 26400627	M
5.898	Response = 24063742	M

Reviewer: patelji, 27-Sep-2017 12:22:44

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D
Lims ID: IC TOX L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 11:58:25 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-019
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:17:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28765414	100.0	100.0	
2	1.514	1.515	-0.001	38810542	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	9719704	1500.0	1572.2	M
1	5.244	5.244	0.000	13601842	1500.0	1479.0	M
1	5.308	5.307	0.001	28066404	1500.0	1543.6	M
1	5.481	5.483	-0.002	17469713	1500.0	1595.1	M
1	5.897	5.898	-0.001	15294665	1500.0	1676.1	M
		Average of Peak Amounts =				1573.2	
2	4.111	4.113	-0.002	16657416	1500.0	1817.1	M
2	4.761	4.762	-0.001	17938949	1500.0	1666.5	M
2	4.931	4.932	-0.001	19355924	1500.0	1700.0	M
2	5.008	5.009	-0.001	24792823	1500.0	1500.9	M
2	5.074	5.074	0.000	23462204	1500.0	1543.7	M
		Average of Peak Amounts =				1645.7	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

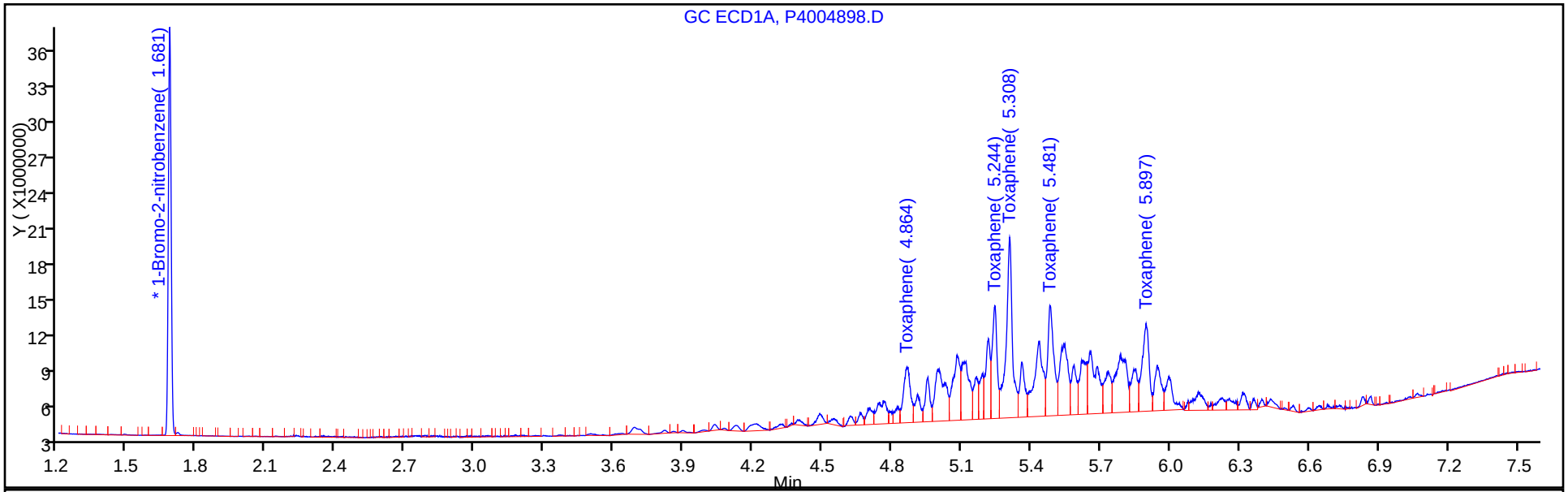
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

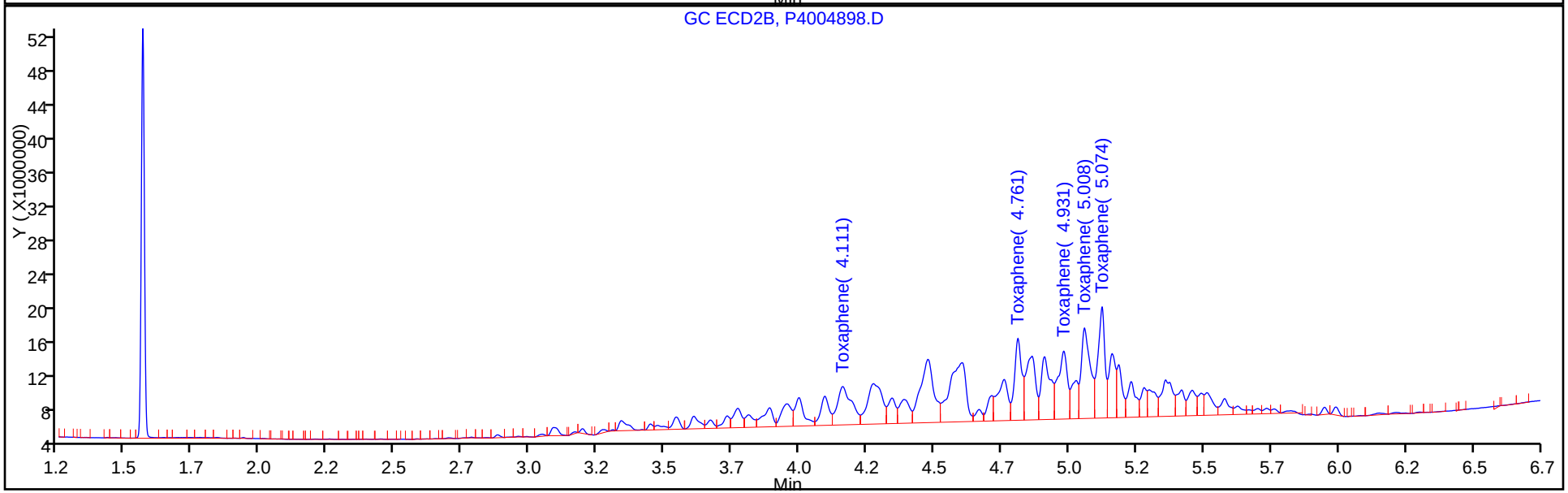
Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date:	27-Sep-2017 11:58:25	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L4			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date: 27-Sep-2017 11:58:25 Instrument ID: CPESTGC4

Lims ID: IC TOX L4

Client ID:

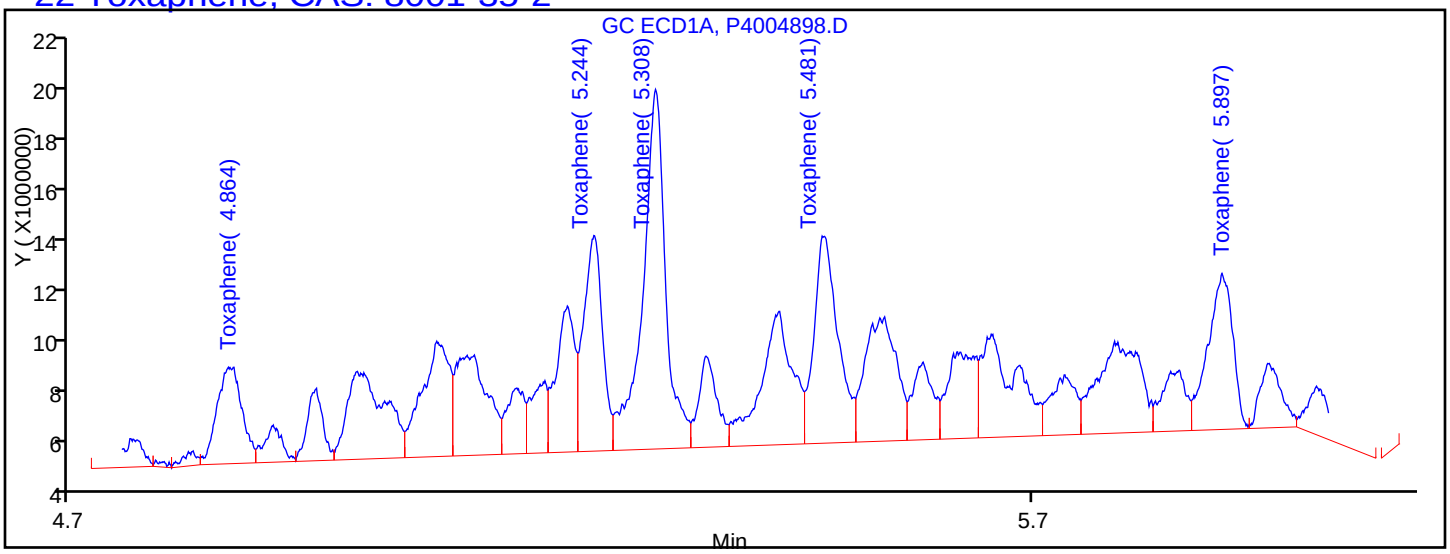
Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

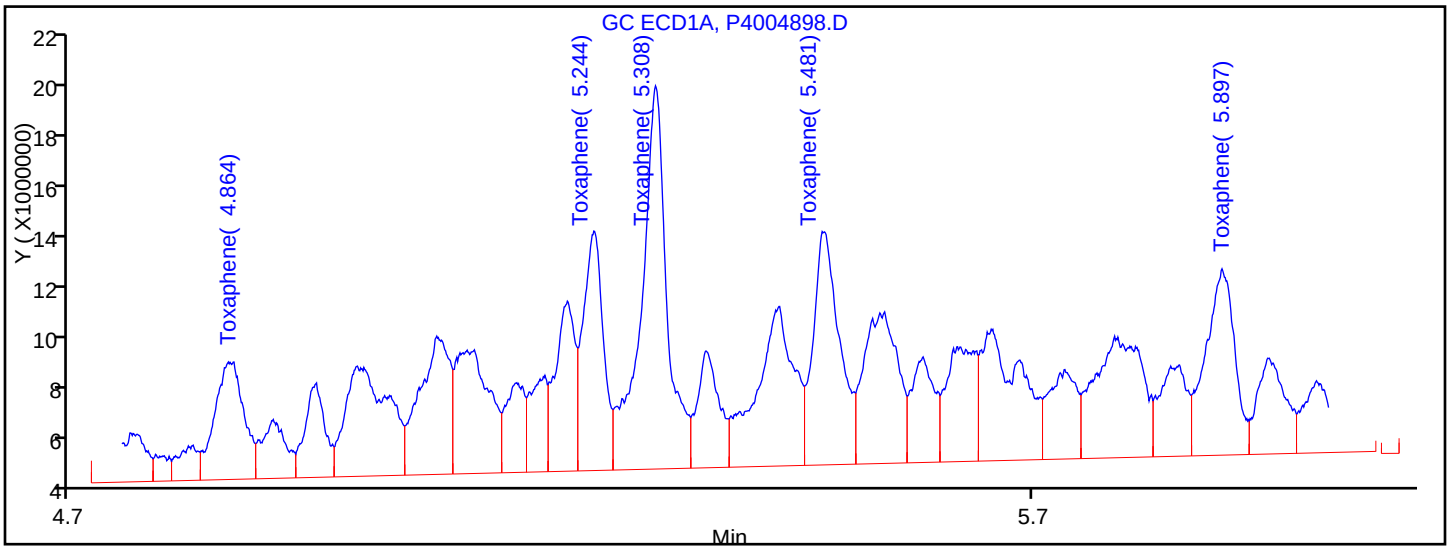
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.864	Response = 6816985
5.244	Response = 11441371
5.308	Response = 23198648
5.481	Response = 14039561
5.897	Response = 10897875



Manual Integration Results

4.864	Response = 9719704	M
5.244	Response = 13601842	M
5.308	Response = 28066404	M
5.481	Response = 17469713	M
5.897	Response = 15294665	M

Reviewer: patelji, 27-Sep-2017 12:22:19

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64226

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0170	0.0247	0.0222	0.0286	0.0256	Ave		0.0236				18.4		20.0			
Toxaphene Peak 2	0.0217	0.0312	0.0273	0.0308	0.0277	Ave		0.0277				13.8		20.0			
Toxaphene Peak 3	0.0253	0.0360	0.0227	0.0332	0.0294	Ave		0.0293				18.7		20.0			
Toxaphene Peak 4	0.0498	0.0454	0.0381	0.0426	0.0369	Ave		0.0426				12.4		20.0			
Toxaphene Peak 5	0.0397	0.0438	0.0369	0.0403	0.0351	Ave		0.0392				8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64226

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	348508	5082738	9510025	16657416	25532898	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	443786	6412967	11731990	17938949	27605989	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	518131	7402802	9736270	19355924	29388597	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	1019543	9335674	16355641	24792823	36852578	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	813581	9003982	15828268	23462204	35030731	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D
Lims ID: IC TOX L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 11:11:38 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-015
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:00 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:10:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.681	0.001	31368203	100.0	100.0	
2	1.515	1.513	0.002	40978483	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.868	4.862	0.006	281620	50.0	41.8	M
1	5.243	5.242	0.001	464415	50.0	46.3	M
1	5.309	5.307	0.002	832967	50.0	42.0	M
1	5.482	5.482	0.000	488208	50.0	40.9	M
1	5.899	5.897	0.002	380508	50.0	38.2	M
		Average of Peak Amounts =				41.8	
2	4.113	4.108	0.005	348508	50.0	36.0	
2	4.762	4.758	0.004	443786	50.0	39.0	M
2	4.935	4.929	0.006	518131	50.0	43.1	M
2	5.010	5.007	0.003	1019543	50.0	58.5	M
2	5.074	5.072	0.002	813581	50.0	50.7	M
		Average of Peak Amounts =				45.5	
						RPD = 8.29	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

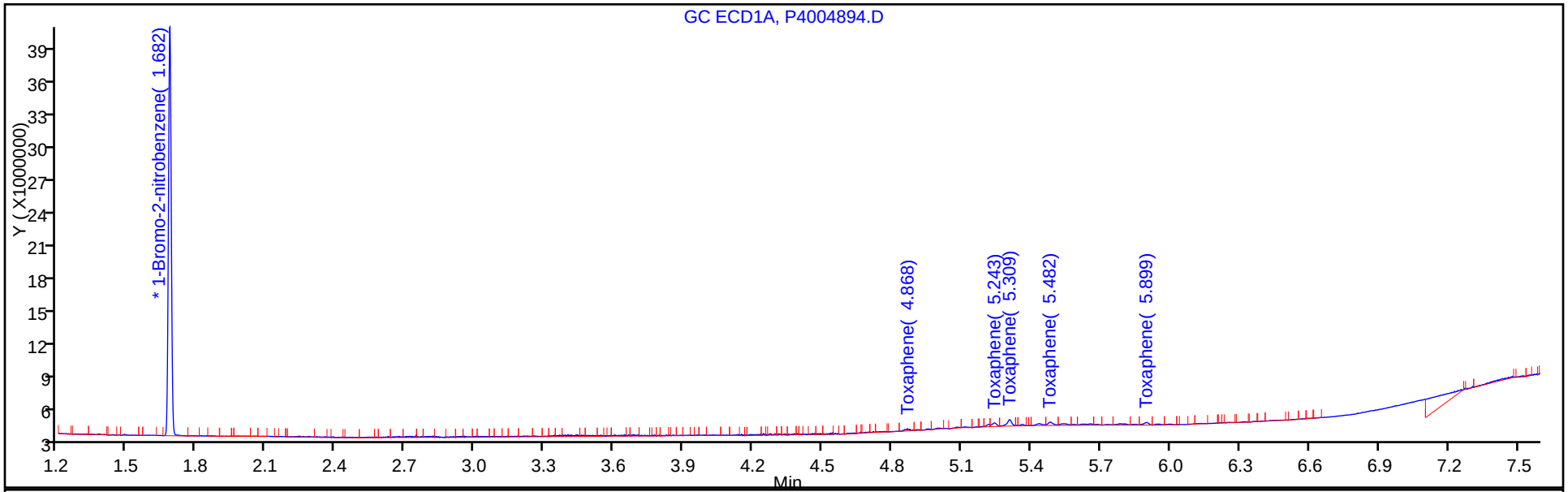
SGTOX608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

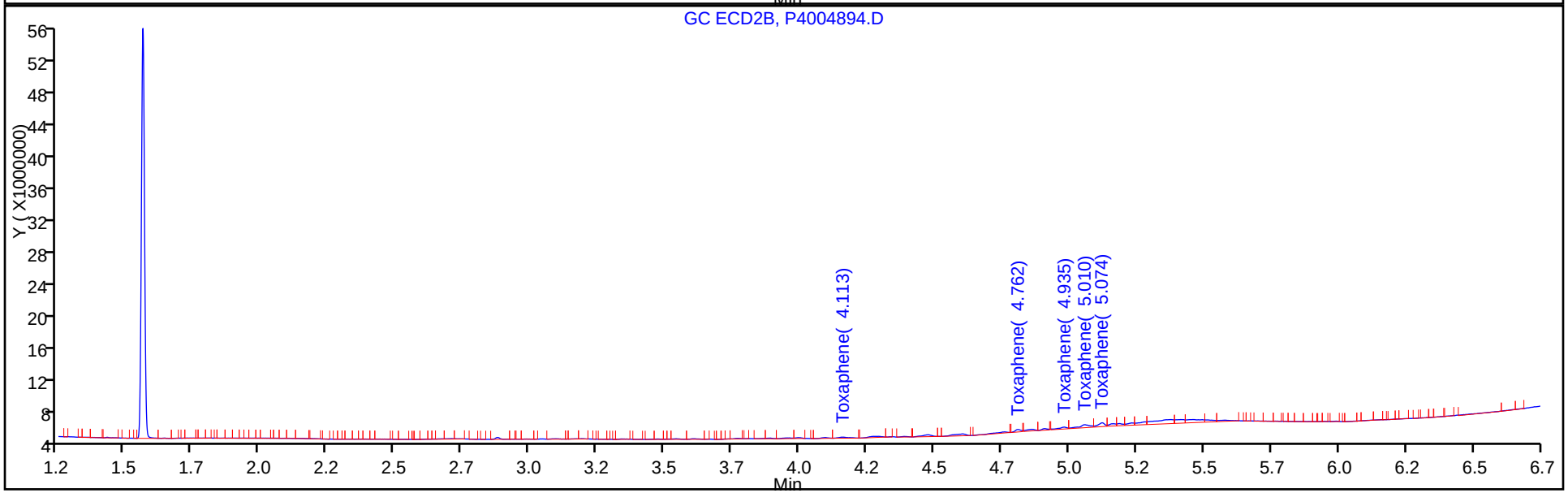
Report Date: 27-Sep-2017 13:44:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L1			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





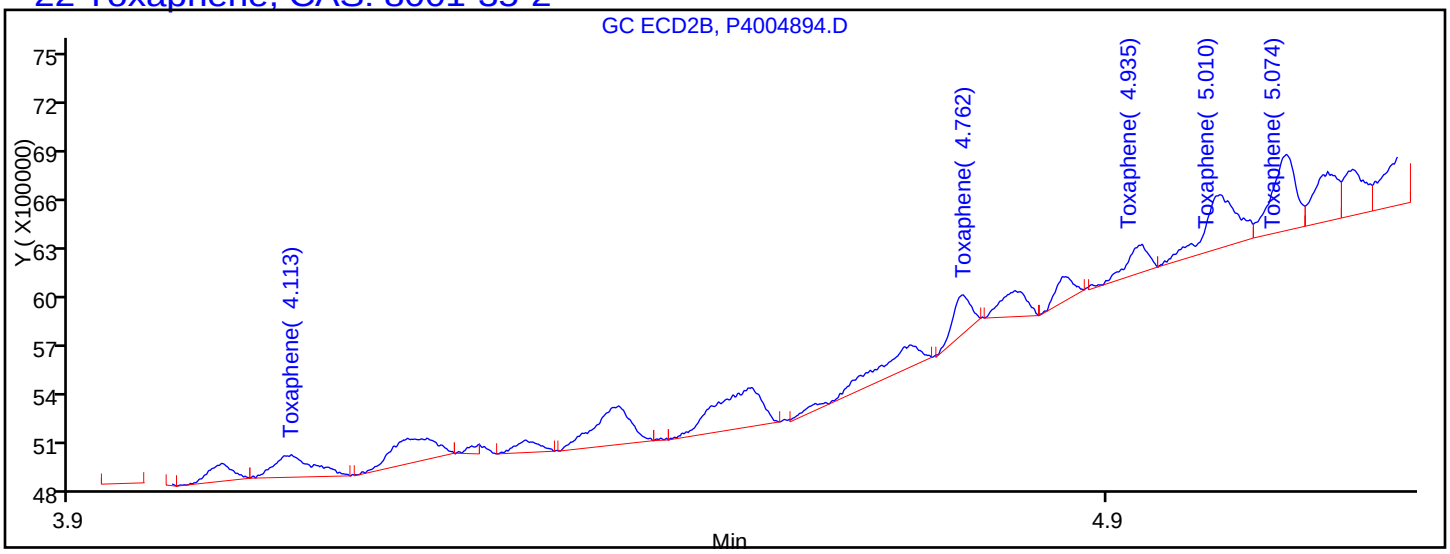
Report Date: 27-Sep-2017 13:44:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

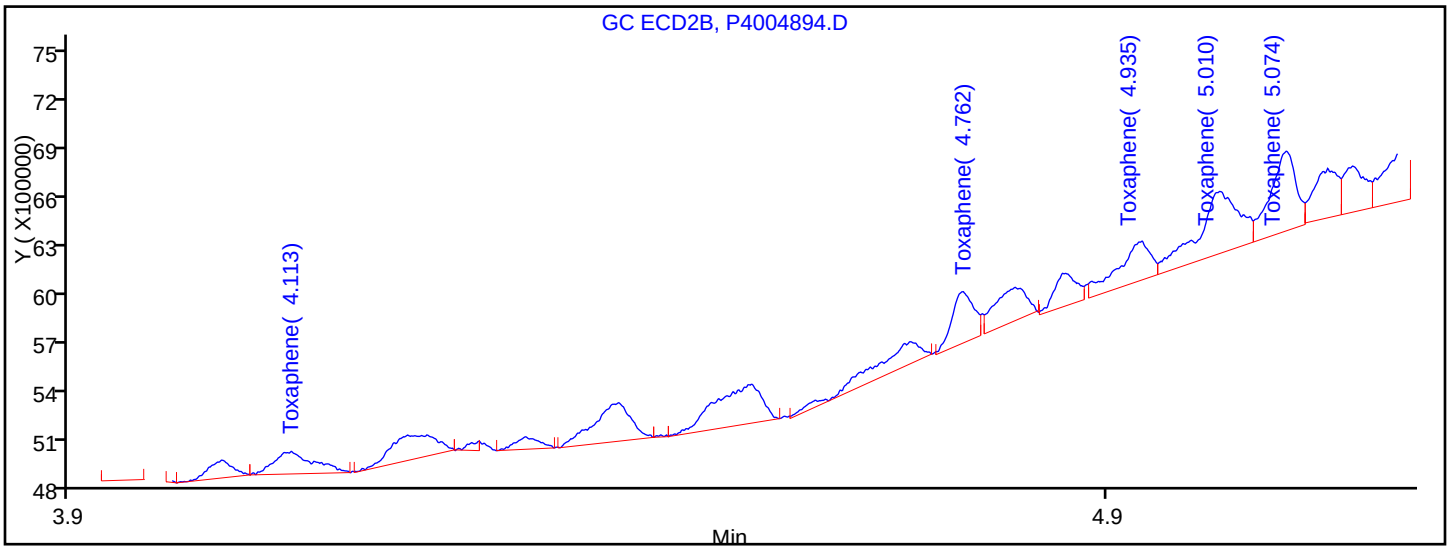
Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L1				
Client ID:					
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.113	Response = 348508
4.762	Response = 281717
4.935	Response = 255285
5.010	Response = 723478
5.074	Response = 736115



Manual Integration Results

4.113	Response = 348508	
4.762	Response = 443786	M
4.935	Response = 518131	M
5.010	Response = 1019543	M
5.074	Response = 813581	M

Reviewer: patelji, 27-Sep-2017 12:24:35

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D
Lims ID: IC TOX L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 11:23:09 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-016
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:04 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:11:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	30651273	100.0	100.0	
2	1.516	1.513	0.003	41110675	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.862	0.001	3667366	500.0	556.7	M
1	5.245	5.242	0.003	6039262	500.0	616.3	
1	5.307	5.307	0.000	11908262	500.0	614.6	
1	5.482	5.482	0.000	6770393	500.0	580.2	
1	5.896	5.897	-0.001	5311371	500.0	546.2	
		Average of Peak Amounts =				582.8	
2	4.112	4.108	0.004	5082738	500.0	523.4	M
2	4.761	4.758	0.003	6412967	500.0	562.4	M
2	4.931	4.929	0.002	7402802	500.0	613.8	M
2	5.007	5.007	0.000	9335674	500.0	533.5	M
2	5.073	5.072	0.001	9003982	500.0	559.3	M
		Average of Peak Amounts =				558.5	
						RPD = 4.26	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

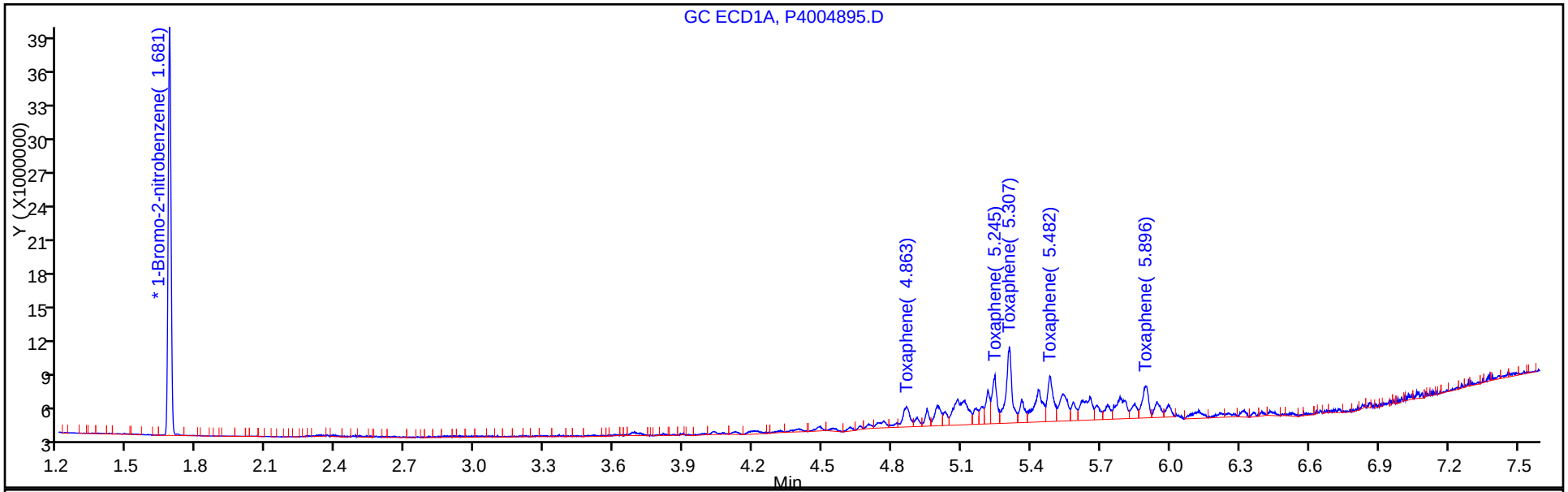
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

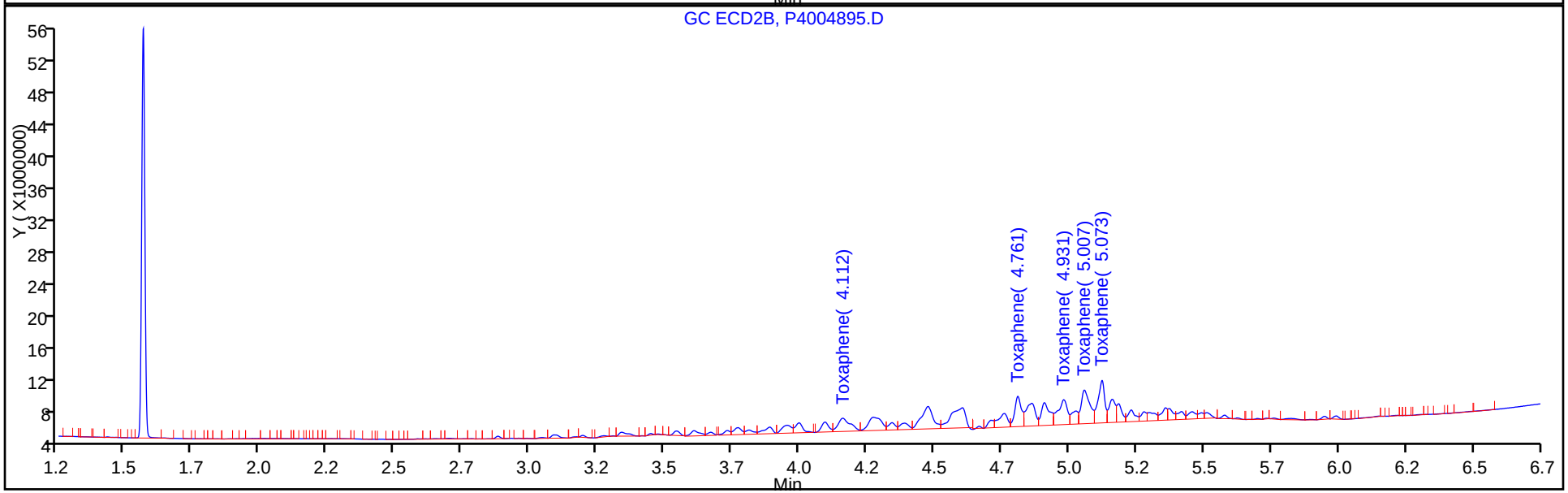
Report Date: 27-Sep-2017 13:44:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





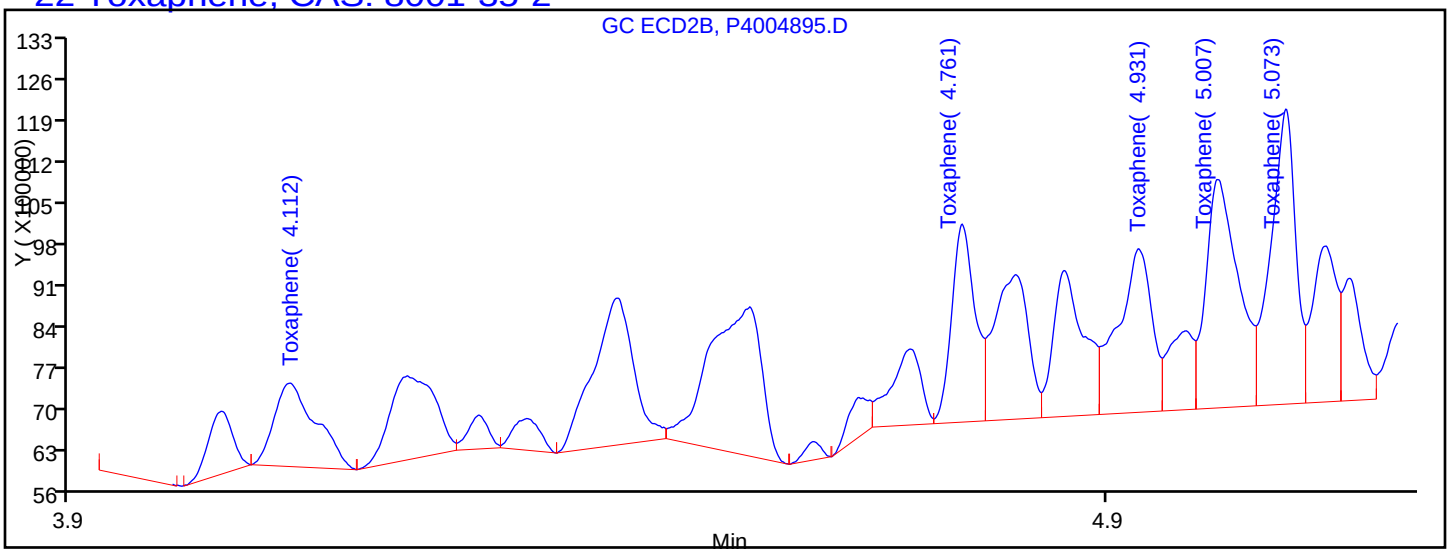
Report Date: 27-Sep-2017 13:44:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

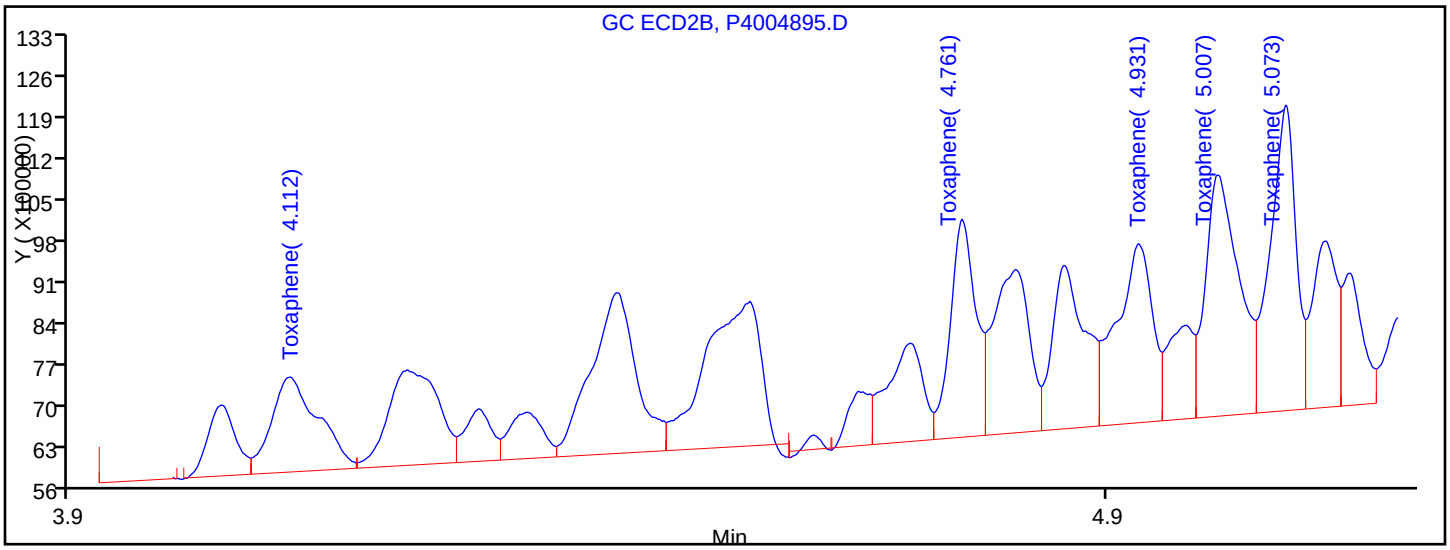
Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4
Lims ID:	IC TOX L2		
Client ID:			
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.112	Response = 3971244
4.761	Response = 5316254
4.931	Response = 6355336
5.007	Response = 8484385
5.073	Response = 8382444



Manual Integration Results

4.112	Response = 5082738	M
4.761	Response = 6412967	M
4.931	Response = 7402802	M
5.007	Response = 9335674	M
5.073	Response = 9003982	M

Reviewer: kapoors, 27-Sep-2017 12:11:09

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D
Lims ID: IC TOX L3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 11:34:40 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-017
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:07 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:07:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31242827	100.0	100.0	
2	1.515	1.515	0.000	42903673	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.863	0.000	6787919	1000.0	1010.9	M
1	5.244	5.244	0.000	9379996	1000.0	939.0	M
1	5.307	5.307	0.000	18824836	1000.0	953.2	M
1	5.483	5.483	0.000	11968988	1000.0	1006.2	M
1	5.898	5.898	0.000	9746148	1000.0	983.4	M
		Average of Peak Amounts =				978.5	
2	4.113	4.113	0.000	9510025	1000.0	938.5	M
2	4.762	4.762	0.000	11731990	1000.0	985.9	M
2	4.932	4.932	0.000	9736270	1000.0	773.5	M
2	5.009	5.009	0.000	16355641	1000.0	895.7	M
2	5.074	5.074	0.000	15828268	1000.0	942.1	M
		Average of Peak Amounts =				907.1	
						RPD = 7.57	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

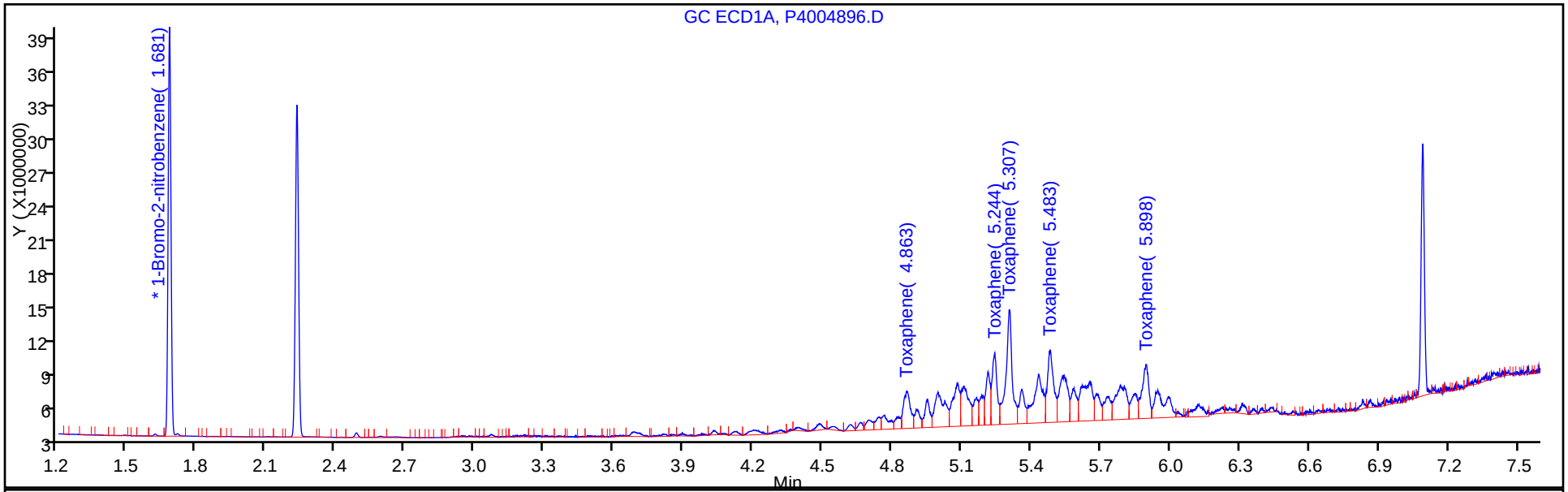
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

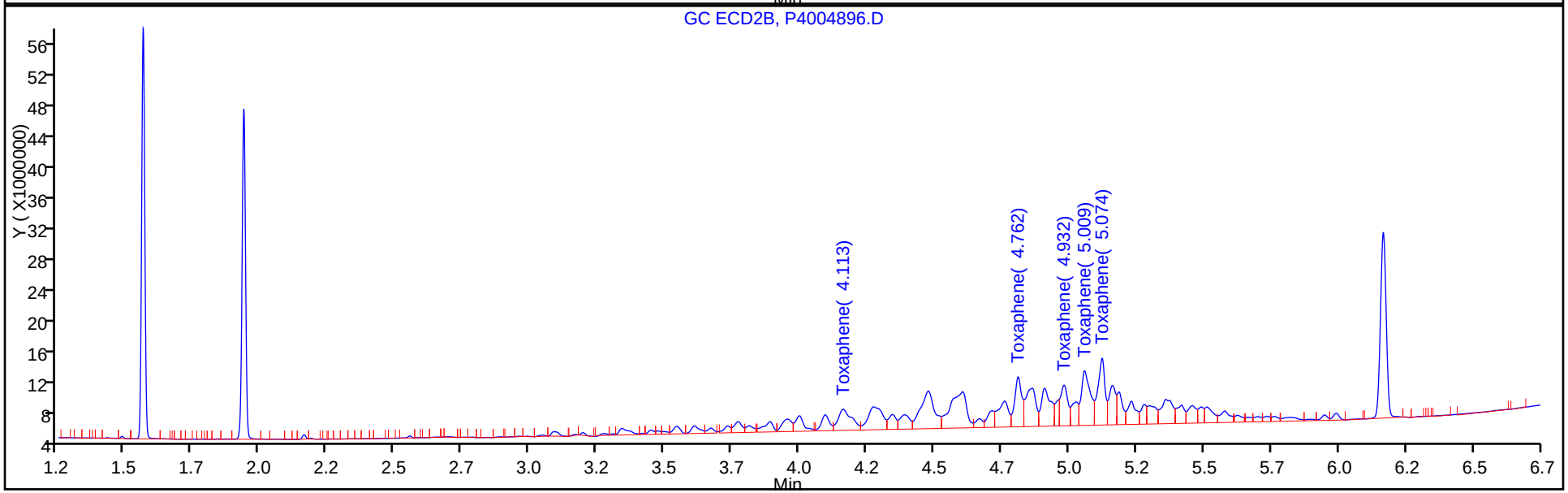
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L3			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





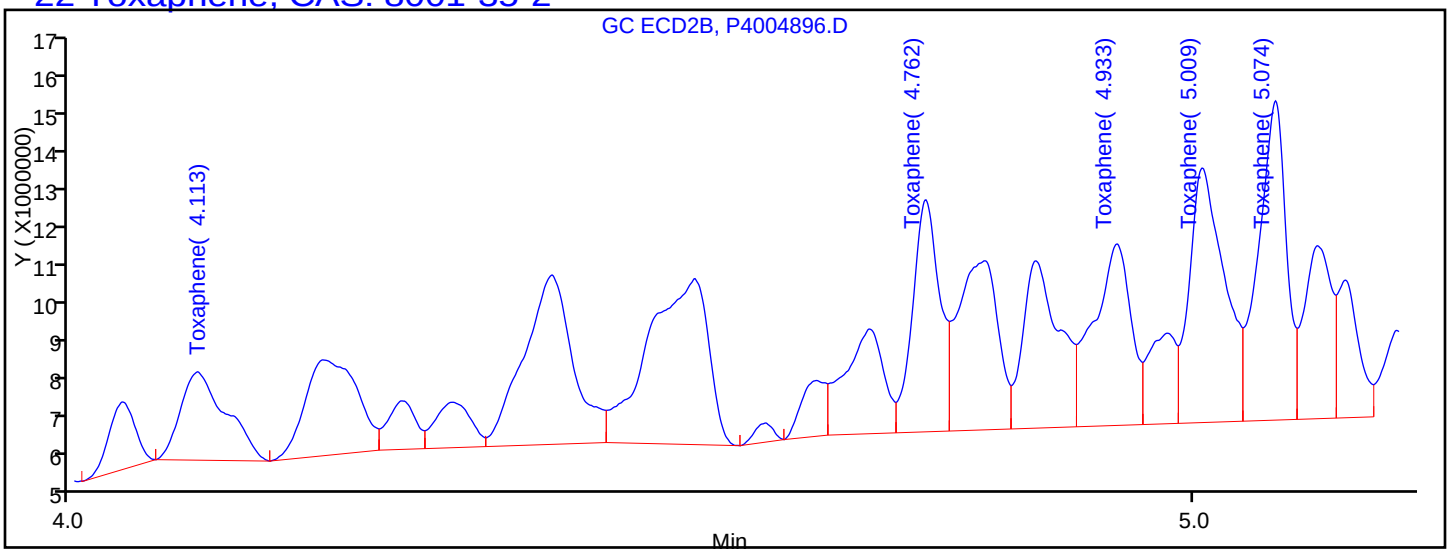
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

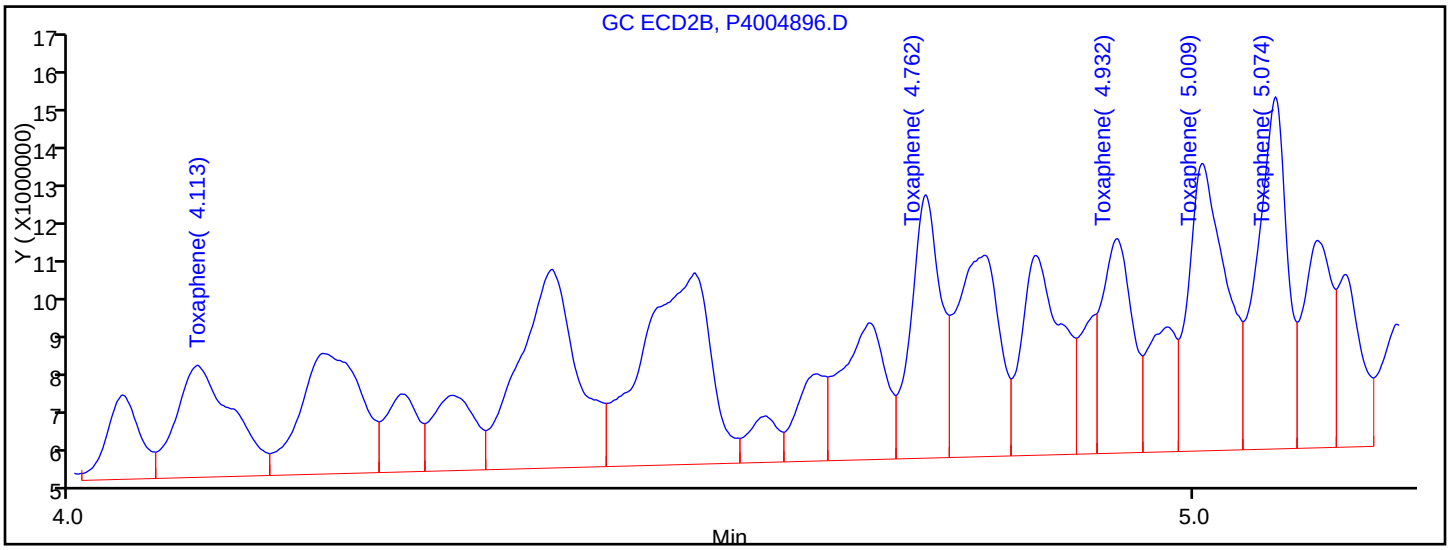
Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L3				
Client ID:					
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.113	Response = 5953484
4.762	Response = 9417596
4.933	Response = 10180459
5.009	Response = 13389221
5.074	Response = 13306198



Manual Integration Results

4.113	Response = 9510025	M
4.762	Response = 11731990	M
4.932	Response = 9736270	M
5.009	Response = 16355641	M
5.074	Response = 15828268	M

Reviewer: patelji, 27-Sep-2017 12:23:55

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D
Lims ID: IC TOX L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 11:46:11 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-018
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:11 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29120301	100.0	100.0	
2	1.514	1.515	-0.001	39923427	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	15522275	2500.0	2480.2	M
1	5.241	5.244	-0.003	21327742	2500.0	2290.8	M
1	5.307	5.307	0.000	43633700	2500.0	2370.5	M
1	5.483	5.483	0.000	26400627	2500.0	2381.2	M
1	5.898	5.898	0.000	24063742	2500.0	2604.9	M
		Average of Peak Amounts =				2425.5	
2	4.111	4.113	-0.002	25532898	2500.0	2707.7	M
2	4.761	4.762	-0.001	27605989	2500.0	2493.1	M
2	4.932	4.932	0.000	29388597	2500.0	2509.1	M
2	5.008	5.009	-0.001	36852578	2500.0	2168.8	M
2	5.073	5.074	-0.001	35030731	2500.0	2240.6	M
		Average of Peak Amounts =				2423.9	
						RPD = 0.07	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

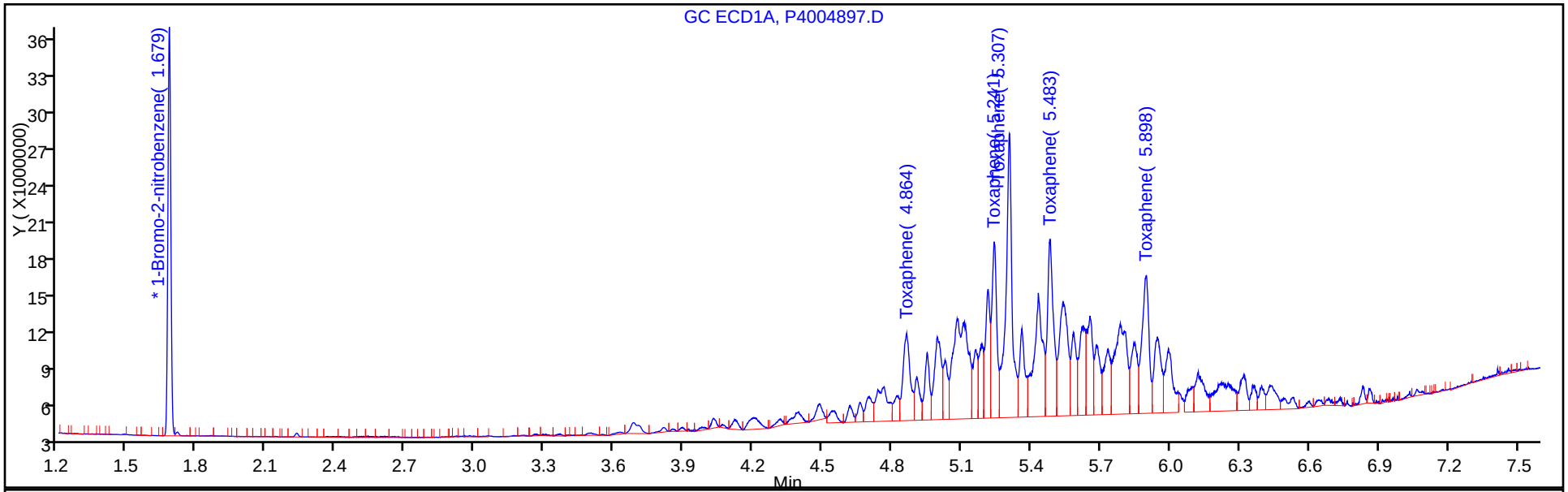
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

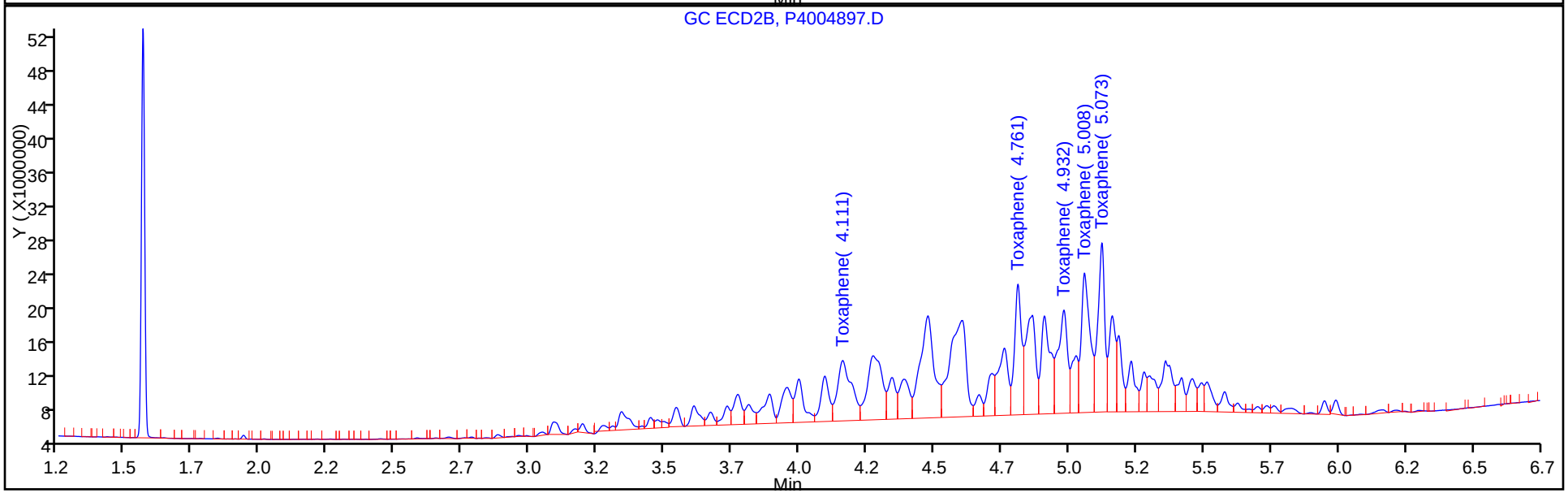
Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L5			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





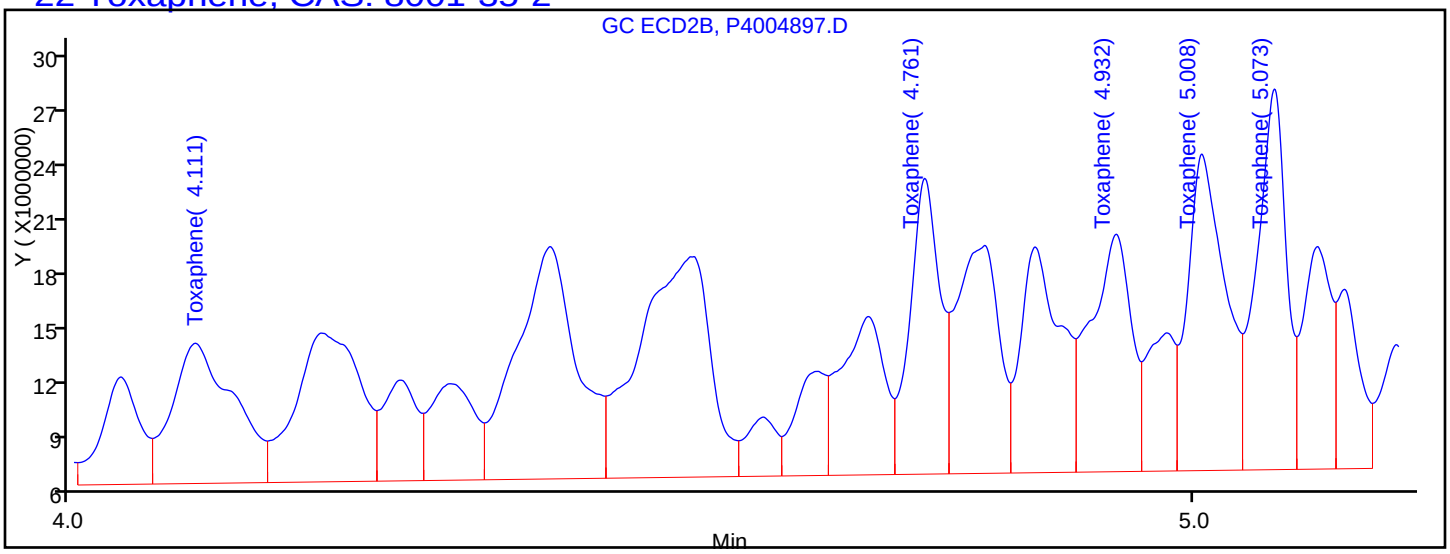
Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

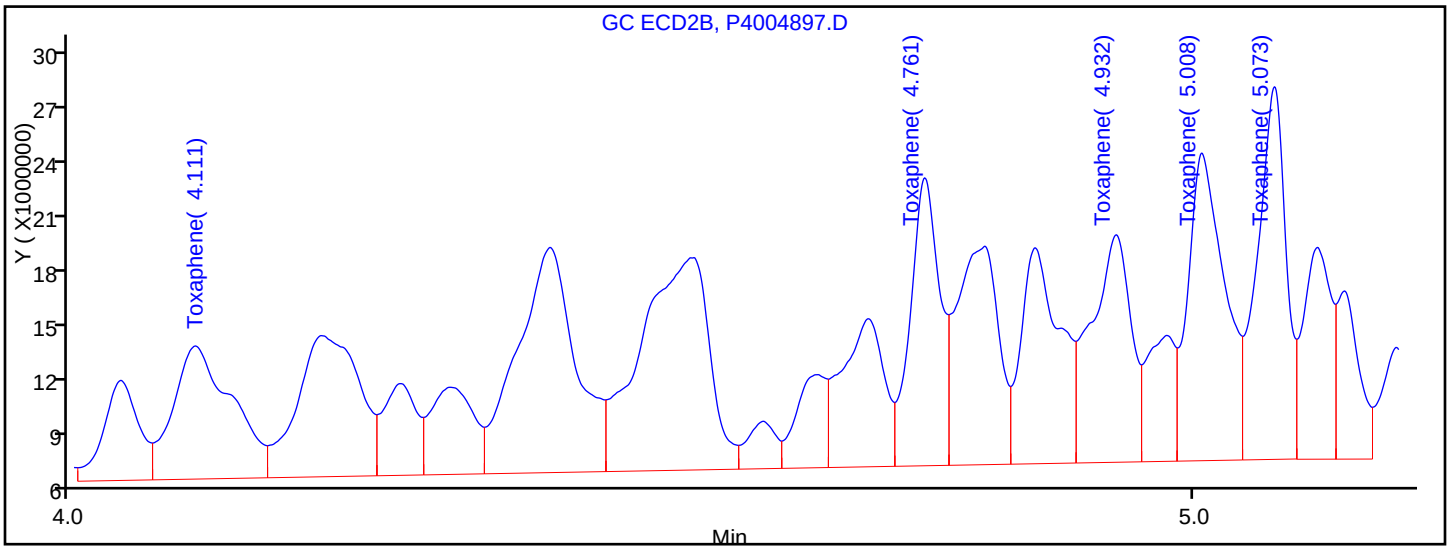
Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L5				
Client ID:					
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.111	Response = 28745867
4.761	Response = 29681312
4.932	Response = 32070894
5.008	Response = 39630771
5.073	Response = 37379749



Manual Integration Results

4.111	Response = 25532898	M
4.761	Response = 27605989	M
4.932	Response = 29388597	M
5.008	Response = 36852578	M
5.073	Response = 35030731	M

Reviewer: patelji, 27-Sep-2017 12:22:55

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D
Lims ID: IC TOX L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 11:58:25 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-019
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:17:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28765414	100.0	100.0	
2	1.514	1.515	-0.001	38810542	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	9719704	1500.0	1572.2	M
1	5.244	5.244	0.000	13601842	1500.0	1479.0	M
1	5.308	5.307	0.001	28066404	1500.0	1543.6	M
1	5.481	5.483	-0.002	17469713	1500.0	1595.1	M
1	5.897	5.898	-0.001	15294665	1500.0	1676.1	M
		Average of Peak Amounts =				1573.2	
2	4.111	4.113	-0.002	16657416	1500.0	1817.1	M
2	4.761	4.762	-0.001	17938949	1500.0	1666.5	M
2	4.931	4.932	-0.001	19355924	1500.0	1700.0	M
2	5.008	5.009	-0.001	24792823	1500.0	1500.9	M
2	5.074	5.074	0.000	23462204	1500.0	1543.7	M
		Average of Peak Amounts =				1645.7	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

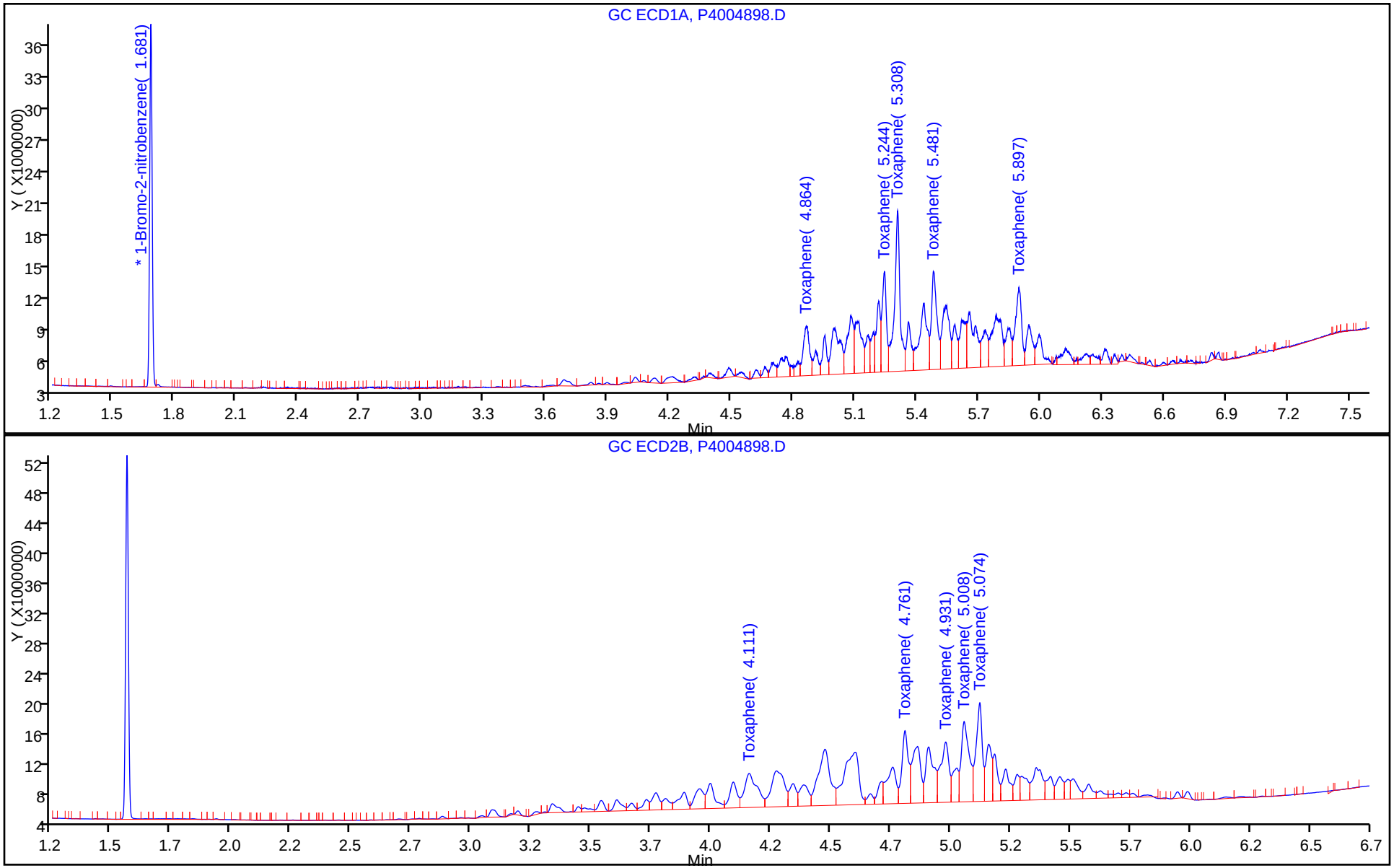
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date:	27-Sep-2017 11:58:25	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L4			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date: 27-Sep-2017 11:58:25 Instrument ID: CPESTGC4

Lims ID: IC TOX L4

Client ID:

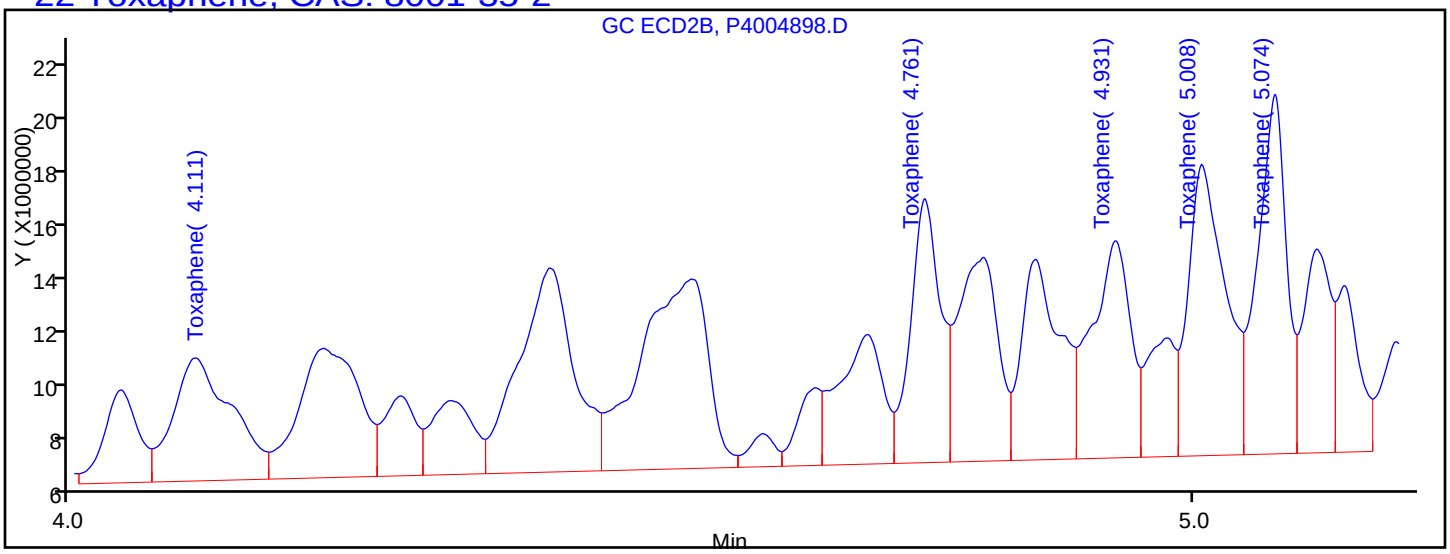
Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

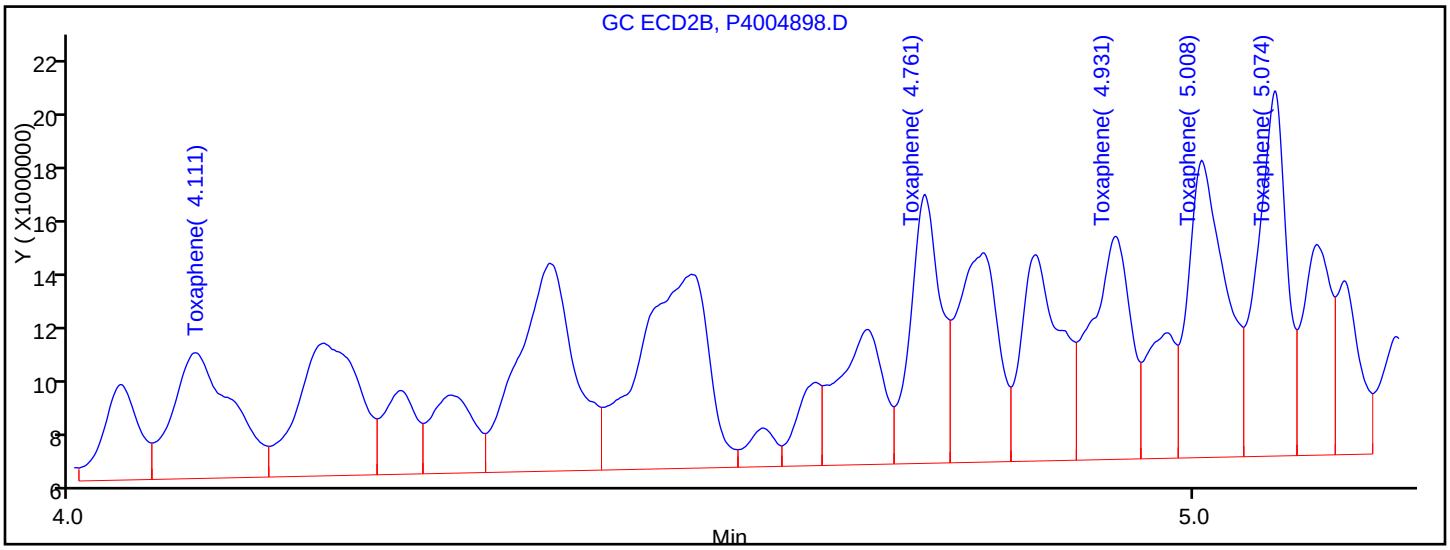
Column: Detector GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.111	Response = 15851416
4.761	Response = 17241119
4.931	Response = 18459736
5.008	Response = 23831481
5.074	Response = 22654765



Manual Integration Results

4.111	Response = 16657416	M
4.761	Response = 17938949	M
4.931	Response = 19355924	M
5.008	Response = 24792823	M
5.074	Response = 23462204	M

Reviewer: patelji, 27-Sep-2017 12:22:24

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 15:07 Calibration End Date: 02/08/2018 15:59 Calibration ID: 66472

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-495906/3	5F917980.D
Level 2	STD 460-495906/4	5F917981.D
Level 3	STD 460-495906/5	5F917982.D
Level 4	STD 460-495906/6	5F917983.D
Level 5	STD 460-495906/7	5F917984.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.7311	1.7596	1.8602	1.6330	1.7293	Ave		1.7426				4.7		20.0			
gamma-BHC (Lindane)	1.6844	1.6555	1.7387	1.5098	1.5897	Ave		1.6356				5.4		20.0			
beta-BHC	0.7753	0.7214	0.7233	0.6035	0.6201	Ave		0.6887				10.7		20.0			
delta-BHC	1.6618	1.6571	1.7465	1.5125	1.6030	Ave		1.6362				5.3		20.0			
Heptachlor	1.9495	1.8446	1.9235	1.6263	1.7093	Ave		1.8107				7.7		20.0			
Aldrin	1.6917	1.6816	1.7564	1.4968	1.5916	Ave		1.6436				6.1		20.0			
Heptachlor epoxide	1.6972	1.5925	1.6362	1.3959	1.4403	Ave		1.5524				8.3		20.0			
trans-Chlordane	1.7021	1.6391	1.6966	1.4644	1.5400	Ave		1.6084				6.4		20.0			
cis-Chlordane	1.7114	1.5573	1.6346	1.4092	1.4675	Ave		1.5560				7.9		20.0			
Endosulfan I	1.6439	1.5997	1.6945	1.4752	1.5443	Ave		1.5915				5.4		20.0			
4,4'-DDE	1.6223	1.5390	1.5734	1.3492	1.3805	Ave		1.4929				8.1		20.0			
Dieldrin	1.8467	1.7146	1.7792	1.5377	1.5841	Ave		1.6925				7.7		20.0			
Endrin	1.3566	1.4295	1.5339	1.3263	1.3645	Ave		1.4021				5.9		20.0			
4,4'-DDD	1.2047	1.3117	1.4283	1.2483	1.3099	Ave		1.3006				6.5		20.0			
Endosulfan II	1.5759	1.4223	1.4772	1.2694	1.3046	Ave		1.4099				8.9		20.0			
4,4'-DDT	1.5334	1.4949	1.5850	1.3819	1.4528	Ave		1.4896				5.2		20.0			
Endrin aldehyde	1.3158	1.1547	1.2369	1.0450	1.0769	Ave		1.1659				9.6		20.0			
Endosulfan sulfate	0.8853	0.8258	0.8643	0.7146	0.7352	Ave		0.8050				9.5		20.0			
Methoxychlor	1.2521	1.0723	1.1117	1.0051	1.0364	Ave		1.0955				8.8		20.0			
Mirex	1.4172	1.3808	1.4237	1.1931	1.2309	Ave		1.3292				8.2		20.0			
Endrin ketone	1.7971	1.5952	1.6659	1.4288	1.4840	Ave		1.5942				9.2		20.0			
Tetrachloro-m-xylene	0.9874	1.0907	1.1577	1.1110	1.1011	Ave		1.0896				5.7		20.0			
DCB Decachlorobiphenyl	1.2365	1.3776	1.4331	1.3365	1.3394	Ave		1.3446				5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 15:07 Calibration End Date: 02/08/2018 15:59 Calibration ID: 66472

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-495906/3	5F917980.D
Level 2	STD 460-495906/4	5F917981.D
Level 3	STD 460-495906/5	5F917982.D
Level 4	STD 460-495906/6	5F917983.D
Level 5	STD 460-495906/7	5F917984.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	4397647	92635475	197984634	430904286	923570686	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	4278999	87157589	185047465	398412998	849025791	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	1969511	37977985	76985513	159249214	331155303	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	4221592	87238257	185880344	399132616	856129999	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	4952392	97112837	204717547	429151800	912896898	2.50	50.0	100	250	500
Aldrin	BNB	Ave	4297556	88532114	186937697	394976058	850031062	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	4311545	83838100	174135650	368362600	769219581	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	4323898	86290244	180573656	386424183	822451651	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	4347583	81984622	173971562	371872985	783747548	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	4175982	84217223	180343228	389286819	824763411	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	4121228	81020912	167454701	356029612	737291084	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	4691200	90268629	189356636	405771901	846046313	2.50	50.0	100	250	500
Endrin	BNB	Ave	3446137	75256214	163248614	349985356	728745533	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	3060444	69058100	152018212	329403768	699583482	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	4003362	74879326	157218083	334963717	696737363	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	3895238	78698836	168695177	364667000	775918921	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	3342446	60791424	131641675	275763649	575136177	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	2248841	43472758	91986117	188574620	392630249	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	3180801	56453731	118321248	265232595	553507804	2.50	50.0	100	250	500
Mirex	BNB	Ave	3600068	72696378	151526775	314841411	657412086	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	4565183	83983953	177303224	377032577	792565321	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	6270697	57423550	123215733	175902150	235220759	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	7852927	72524853	152519713	211605263	286145088	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 15:07:59 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-003
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:27 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:19:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.674	1.679	-0.005	101612874	100.0	100.0	
2	1.691	1.696	-0.005	52298987	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.063	2.068	-0.005	6270697	6.25	5.83	
2	2.079	2.085	-0.006	3265145	6.25	6.02	
						RPD = 3.33	
15 alpha-BHC							
1	2.395	2.398	-0.003	4397647	2.50	2.48	
2	2.411	2.414	-0.003	2108728	2.50	2.49	
						RPD = 0.33	
2 gamma-BHC (Lindane)							M
1	2.593	2.597	-0.004	4278999	2.50	2.57	
2	2.608	2.612	-0.004	1972676	2.50	2.47	M
						RPD = 4.27	
6 beta-BHC							M
1	2.641	2.644	-0.003	1969511	2.50	2.81	M
2	2.655	2.657	-0.002	996510	2.50	2.81	M
						RPD = 0.18	
32 delta-BHC							M
1	2.765	2.768	-0.003	4221592	2.50	2.54	
2	2.779	2.782	-0.003	2224228	2.50	2.69	M
						RPD = 5.72	
18 Heptachlor							M
1	2.914	2.918	-0.004	4952392	2.50	2.69	
2	2.929	2.932	-0.003	2494567	2.50	2.83	M
						RPD = 4.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.139	3.144	-0.005	4297556	2.50	2.57	
2	3.153	3.157	-0.004	2279345	2.50	2.79	M
						RPD = 7.96	
12 Heptachlor epoxide							M
1	3.638	3.644	-0.006	4311545	2.50	2.73	
2	3.651	3.656	-0.005	2270365	2.50	2.90	M
						RPD = 5.90	
9 gamma-Chlordane							M
1	3.752	3.757	-0.005	4323898	2.50	2.65	
2	3.763	3.769	-0.006	2091692	2.50	2.66	M
						RPD = 0.56	
23 alpha-Chlordane							M
1	3.882	3.886	-0.004	4347583	2.50	2.75	
2	3.892	3.897	-0.005	2171979	2.50	2.81	M
						RPD = 2.26	
7 Endosulfan I							M
1	3.937	3.943	-0.006	4175982	2.50	2.58	
2	4.042	4.046	-0.004	1994342	2.50	2.71	M
						RPD = 4.98	
25 4,4'-DDE							M
1	4.029	4.034	-0.005	4121228	2.50	2.72	
2	3.946	3.953	-0.007	2149603	2.50	2.75	M
						RPD = 1.12	
30 Dieldrin							
1	4.282	4.287	-0.005	4691200	2.50	2.73	
2	4.293	4.297	-0.004	2016147	2.50	2.51	
						RPD = 8.26	
20 Endrin							M
1	4.526	4.532	-0.006	3446137	2.50	2.42	
2	4.536	4.542	-0.006	1930076	2.50	2.69	M
						RPD = 10.60	
16 4,4'-DDD							M
1	4.574	4.579	-0.005	3060444	2.50	2.32	
2	4.583	4.587	-0.004	1529930	2.50	2.42	M
						RPD = 4.24	
11 Endosulfan II							
1	4.737	4.742	-0.005	4003362	2.50	2.79	
2	4.743	4.749	-0.006	1877492	2.50	2.78	
						RPD = 0.39	
21 4,4'-DDT							M
1	4.823	4.826	-0.003	3895238	2.50	2.57	M
2	4.828	4.832	-0.004	1907192	2.50	2.77	
						RPD = 7.22	
5 Endrin aldehyde							M
1	5.043	5.046	-0.003	3342446	2.50	2.82	M
2	5.047	5.050	-0.003	1450864	2.50	2.77	
						RPD = 1.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.155	5.157	-0.002	2248841	2.50	2.75	M
2	5.324	5.327	-0.003	1601596	2.50	2.73	
						RPD = 0.59	
10 Methoxychlor							M
1	5.253	5.255	-0.002	3180801	2.50	2.86	M
2	5.157	5.160	-0.003	928275	2.50	2.65	M
						RPD = 7.48	
34 Mirex							M
1	5.323	5.325	-0.002	3600068	2.50	2.67	M
2	5.255	5.258	-0.003	1313873	2.50	2.77	M
						RPD = 3.95	
13 Endrin ketone							M
1	5.501	5.504	-0.003	4565183	2.50	2.82	M
2	5.502	5.505	-0.003	1868690	2.50	2.79	
						RPD = 1.10	
$ 24 DCB Decachlorobiphenyl							
1	6.313	6.320	-0.007	7852927	6.25	5.94	
2	6.312	6.317	-0.005	3651260	6.25	6.33	
						RPD = 6.45	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

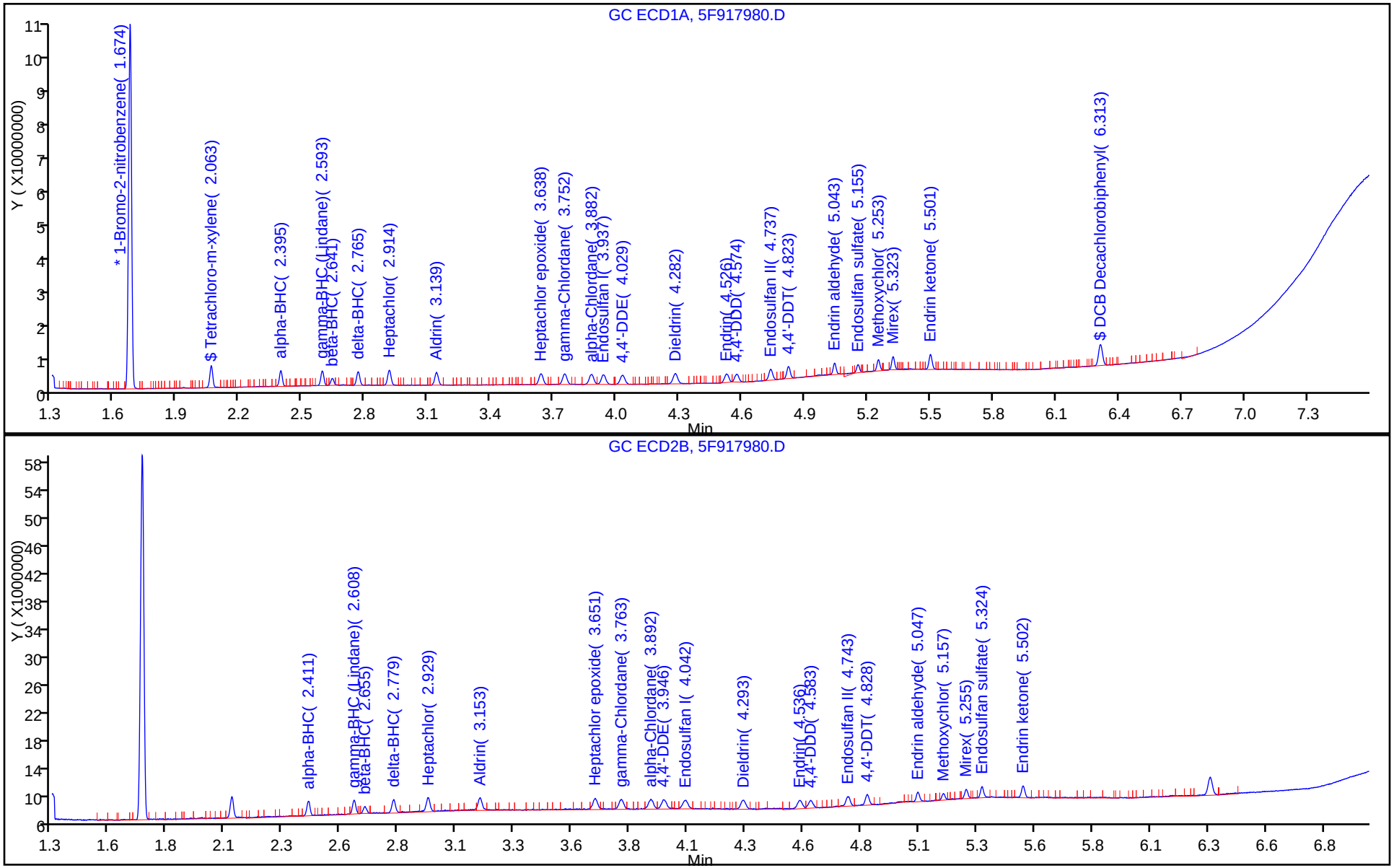
SGPEST-L1_00010	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:27 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D

Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

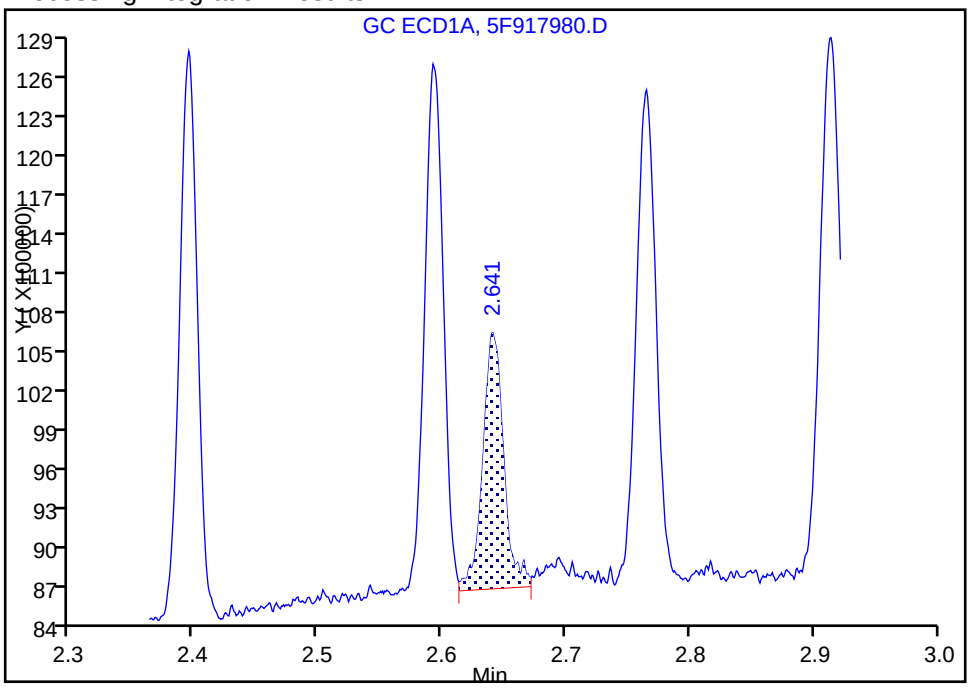
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

Signal: 1

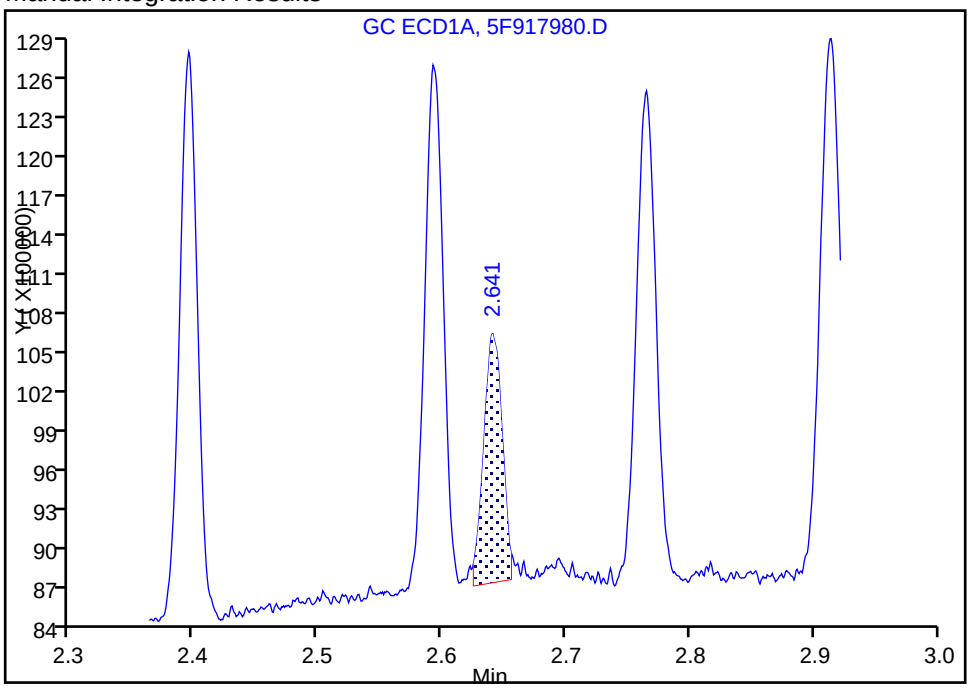
Processing Integration Results

RT: 2.64
Area: 2295936
Amount: 3.162727
Amount Units: ug/l



Manual Integration Results

RT: 2.64
Area: 1969511
Amount: 2.814304
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:43:39
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

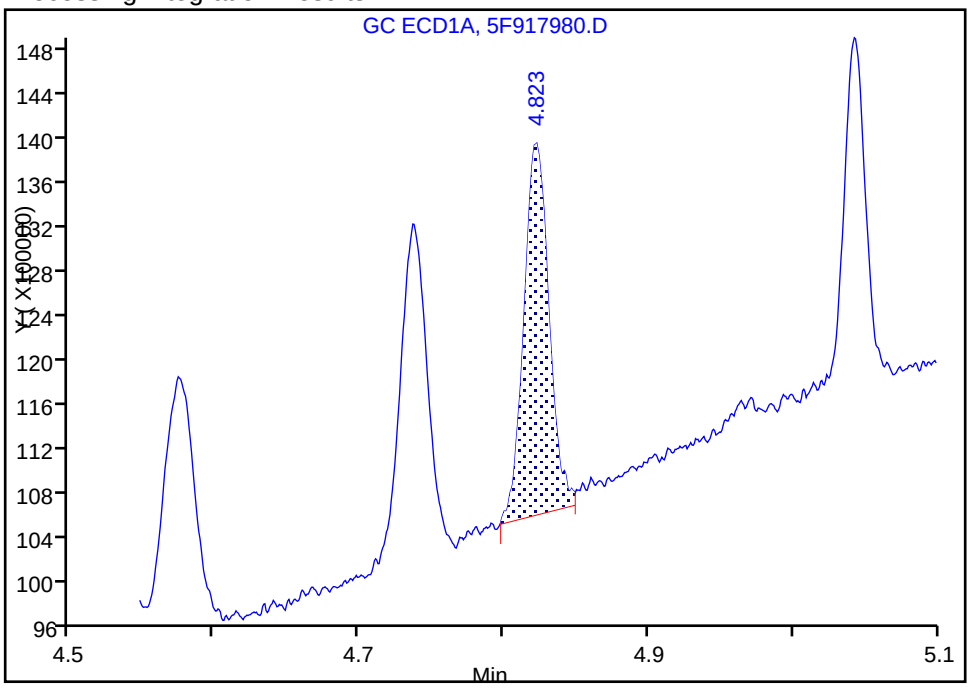
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

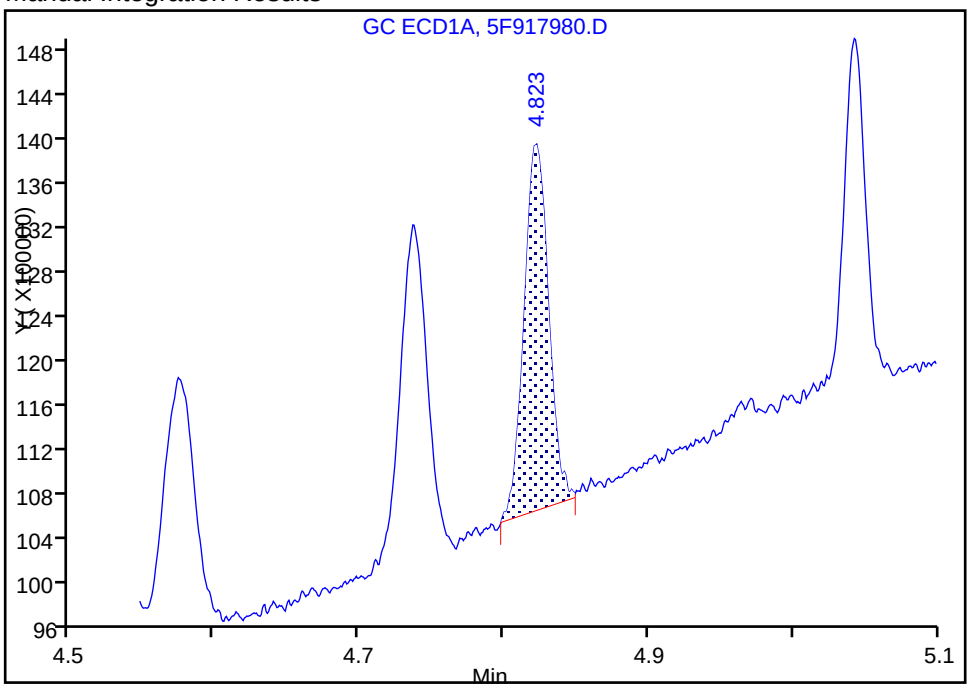
Processing Integration Results

RT: 4.82
Area: 4051439
Amount: 2.654720
Amount Units: ug/l



Manual Integration Results

RT: 4.82
Area: 3895238
Amount: 2.573440
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:22:29
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

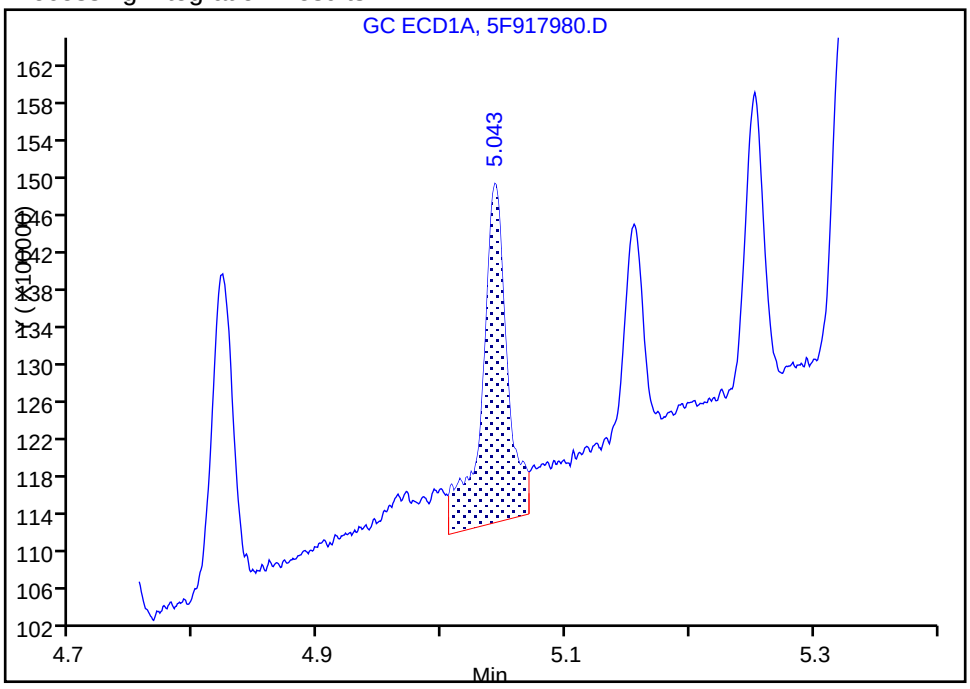
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

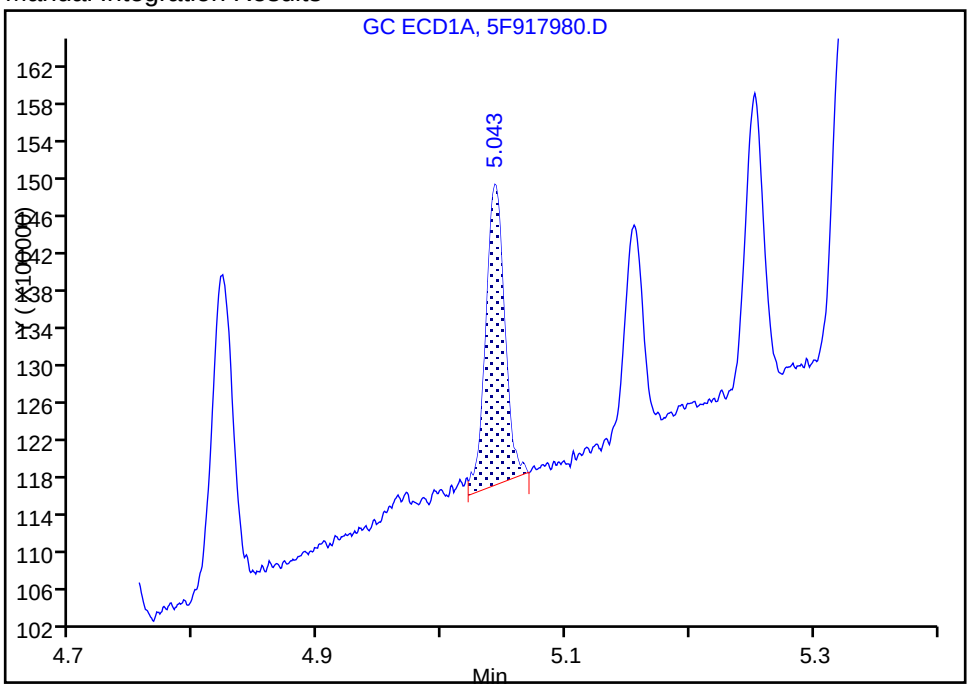
Processing Integration Results

RT: 5.04
Area: 5024042
Amount: 2.249051
Amount Units: ug/l



Manual Integration Results

RT: 5.04
Area: 3342446
Amount: 2.821444
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:31:35
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

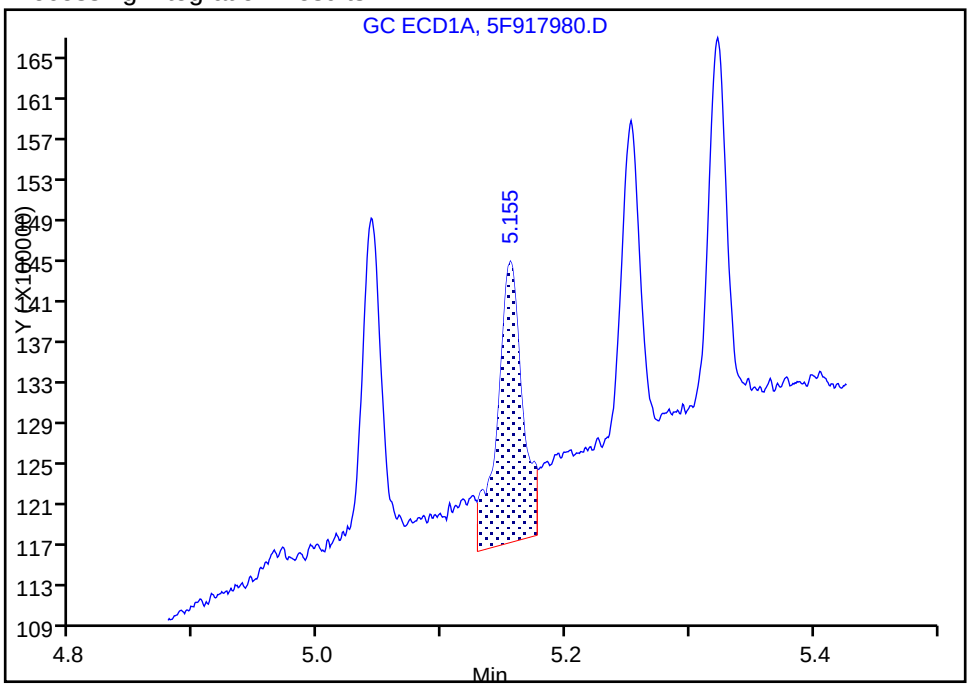
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

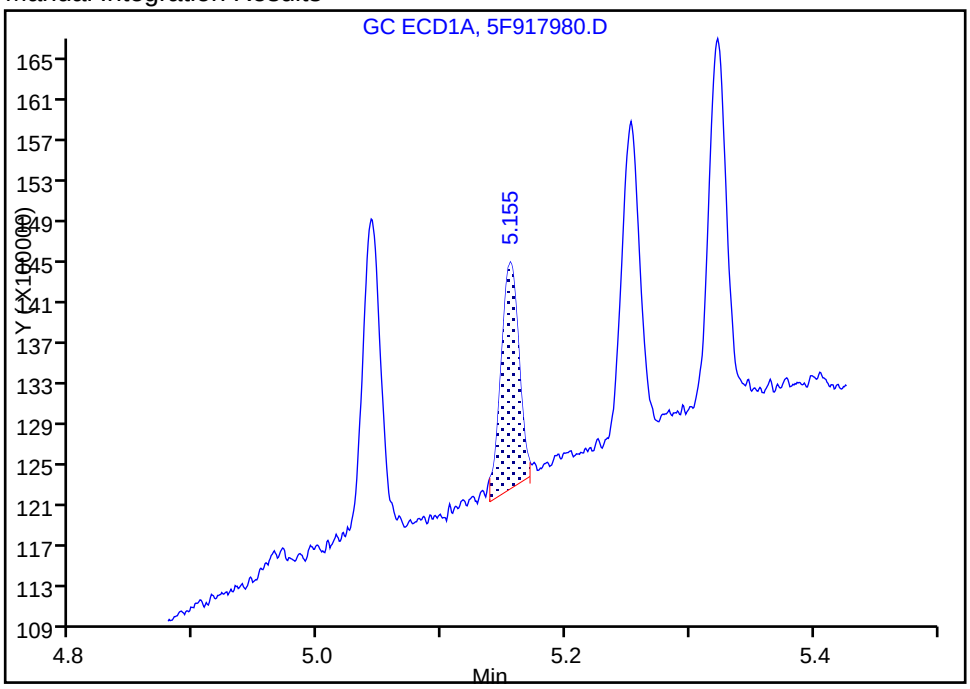
Processing Integration Results

RT: 5.16
Area: 3893548
Amount: 2.145612
Amount Units: ug/l



Manual Integration Results

RT: 5.16
Area: 2248841
Amount: 2.749196
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:41:09
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

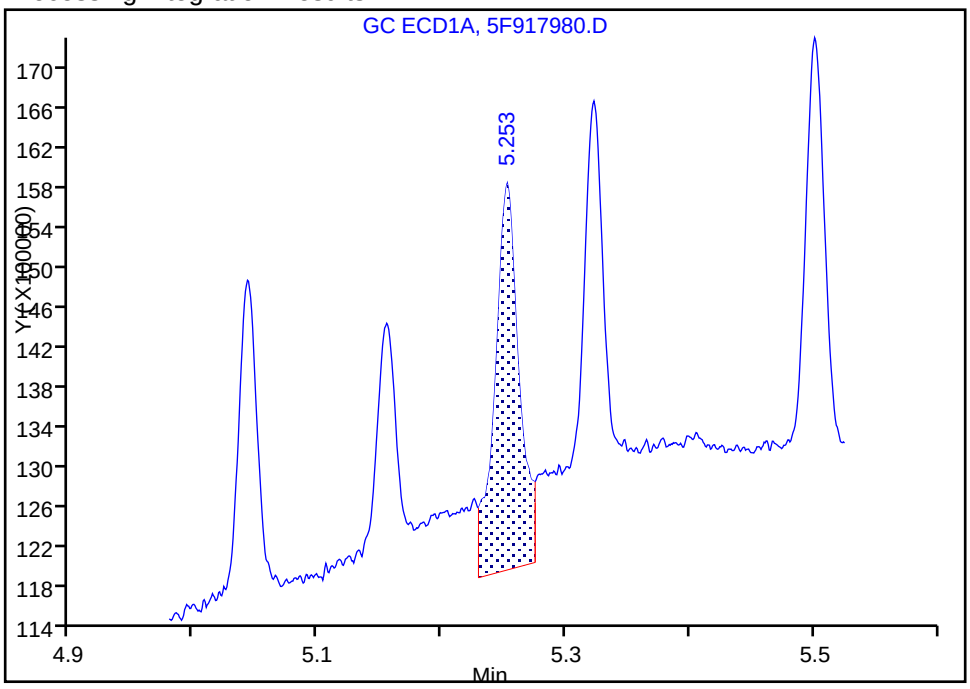
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

10 Methoxychlor, CAS: 72-43-5

Signal: 1

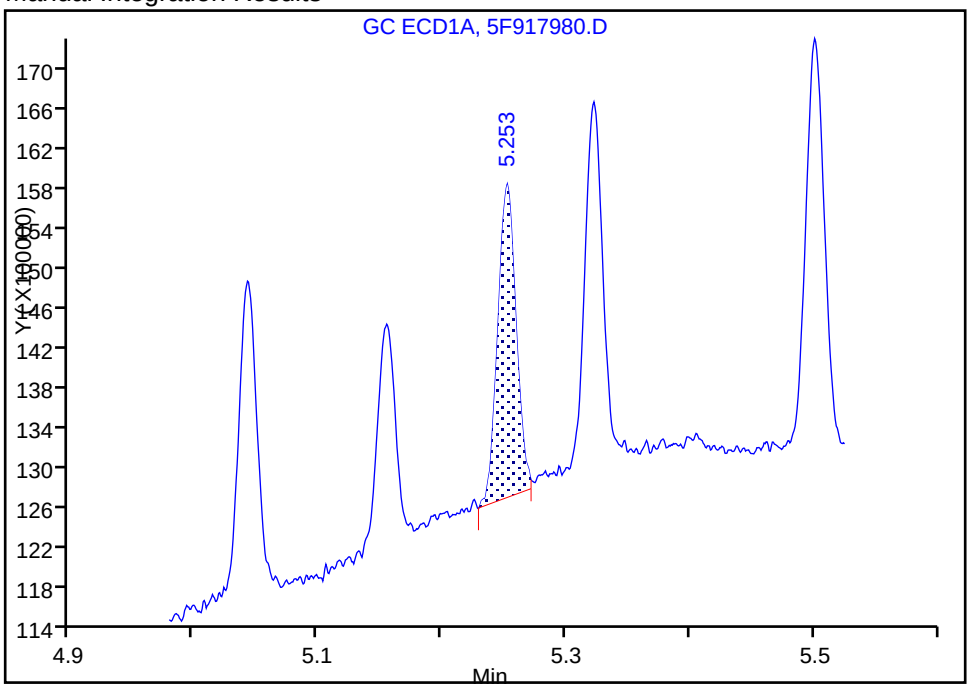
Processing Integration Results

RT: 5.25
Area: 5195631
Amount: 2.209303
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 3180801
Amount: 2.857332
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:39:55
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

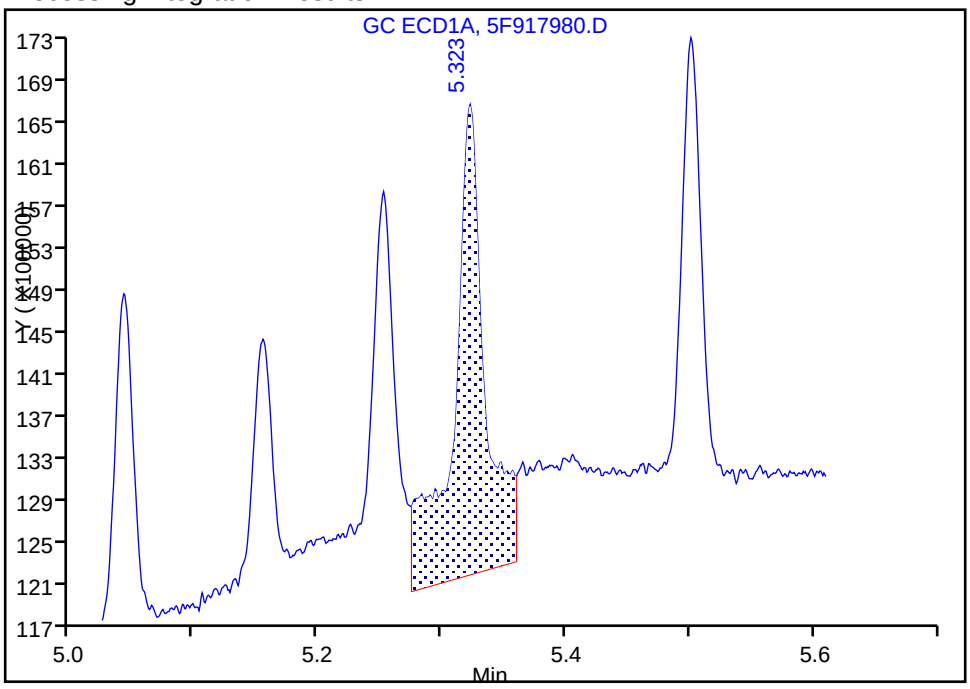
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

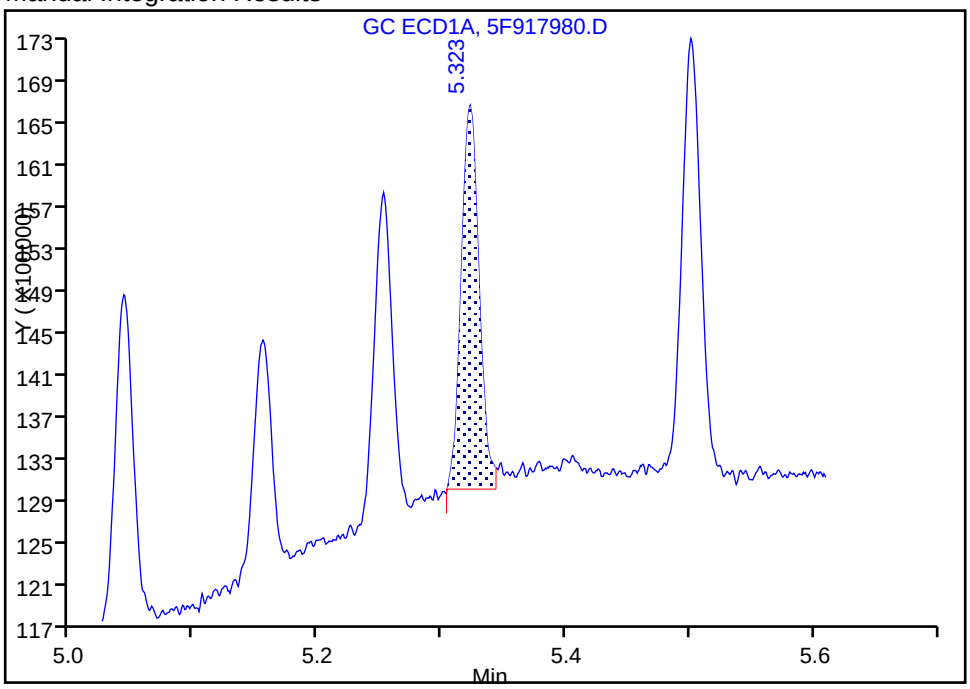
Processing Integration Results

RT: 5.32
Area: 7874455
Amount: 2.219229
Amount Units: ug/l



Manual Integration Results

RT: 5.32
Area: 3600068
Amount: 2.665539
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:39:50
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

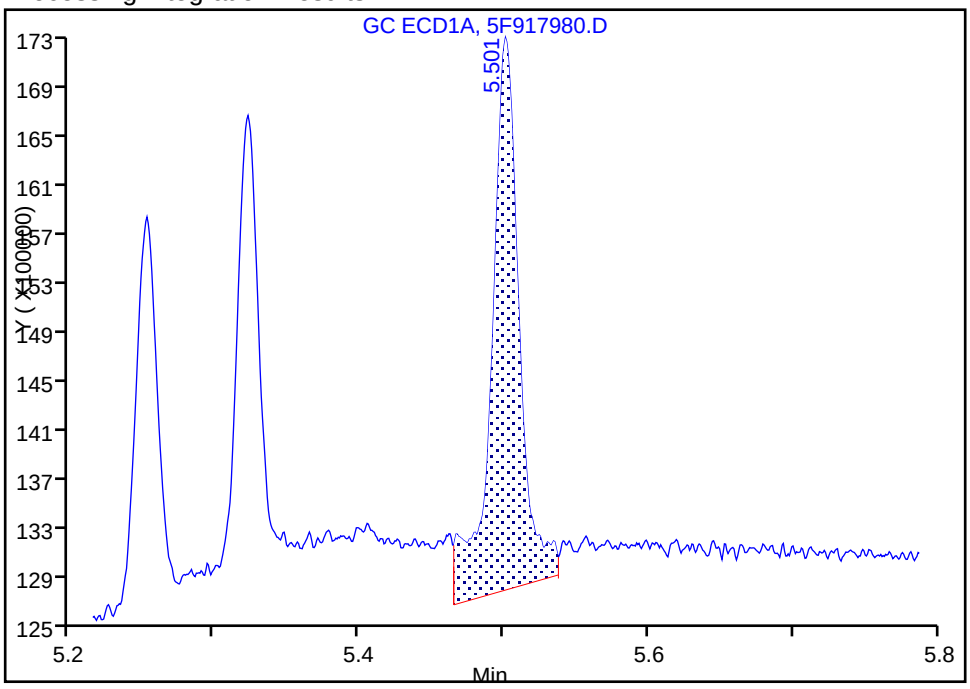
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

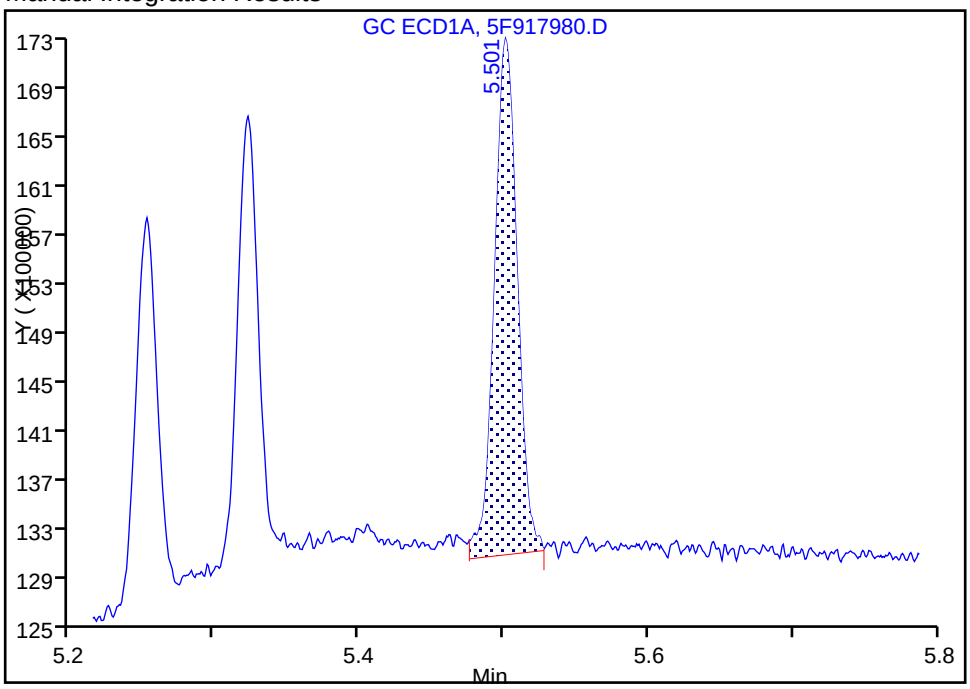
Processing Integration Results

RT: 5.50
Area: 5948985
Amount: 2.248101
Amount Units: ug/l



Manual Integration Results

RT: 5.50
Area: 4565183
Amount: 2.818150
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:22:21

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917981.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 15:20:49 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-004
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:37 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.676	1.679	-0.003	105292609	100.0	100.0	
2	1.693	1.696	-0.003	53431876	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.065	2.068	-0.003	57423550	50.0	51.5	
2	2.081	2.085	-0.004	28889437	50.0	52.2	
						RPD = 1.31	
15 alpha-BHC							
1	2.397	2.398	-0.001	92635475	50.0	50.5	
2	2.413	2.414	-0.001	44687349	50.0	51.7	
						RPD = 2.34	
2 gamma-BHC (Lindane)							
1	2.596	2.597	-0.001	87157589	50.0	50.6	
2	2.611	2.612	-0.001	42739911	50.0	52.3	
						RPD = 3.32	
6 beta-BHC							
1	2.643	2.644	-0.001	37977985	50.0	52.4	
2	2.657	2.657	0.000	19237887	50.0	53.1	
						RPD = 1.35	
32 delta-BHC							
1	2.767	2.768	-0.001	87238257	50.0	50.6	
2	2.782	2.782	0.000	42194450	50.0	49.9	
						RPD = 1.42	
18 Heptachlor							
1	2.916	2.918	-0.002	97112837	50.0	50.9	
2	2.931	2.932	-0.001	45367425	50.0	50.3	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.143	3.144	-0.001	88532114	50.0	51.2	
2	3.156	3.157	-0.001	41652278	50.0	49.8	
						RPD = 2.60	
12 Heptachlor epoxide							
1	3.642	3.644	-0.002	83838100	50.0	51.3	
2	3.655	3.656	-0.001	39930331	50.0	49.9	
						RPD = 2.72	
9 gamma-Chlordane							
1	3.756	3.757	-0.001	86290244	50.0	51.0	
2	3.767	3.769	-0.002	40324646	50.0	50.2	
						RPD = 1.49	
23 alpha-Chlordane							
1	3.884	3.886	-0.002	81984622	50.0	50.0	
2	3.896	3.897	-0.001	38994063	50.0	49.4	
						RPD = 1.24	
7 Endosulfan I							
1	3.941	3.943	-0.002	84217223	50.0	50.3	
2	4.044	4.046	-0.002	38072543	50.0	50.7	
						RPD = 0.91	
25 4,4'-DDE							
1	4.032	4.034	-0.002	81020912	50.0	51.5	
2	3.952	3.953	-0.001	38833972	50.0	48.6	
						RPD = 5.92	
30 Dieldrin							
1	4.285	4.287	-0.002	90268629	50.0	50.7	
2	4.296	4.297	-0.001	41502108	50.0	50.6	
						RPD = 0.10	
20 Endrin							
1	4.530	4.532	-0.002	75256214	50.0	51.0	
2	4.540	4.542	-0.002	35780490	50.0	48.8	
						RPD = 4.36	
16 4,4'-DDD							
1	4.578	4.579	-0.001	69058100	50.0	50.4	
2	4.586	4.587	-0.001	31997185	50.0	49.5	
						RPD = 1.94	
11 Endosulfan II							
1	4.741	4.742	-0.001	74879326	50.0	50.4	
2	4.747	4.749	-0.002	34512288	50.0	50.1	
						RPD = 0.71	
21 4,4'-DDT							
1	4.825	4.826	-0.001	78698836	50.0	50.2	
2	4.831	4.832	-0.001	34475913	50.0	48.9	
						RPD = 2.48	
5 Endrin aldehyde							
1	5.045	5.046	-0.001	60791424	50.0	49.5	
2	5.049	5.050	-0.001	26707784	50.0	49.9	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.156	5.157	-0.001	43472758	50.0	51.3	
2	5.326	5.327	-0.001	30890207	50.0	51.6	
						RPD = 0.59	
10 Methoxychlor							
1	5.254	5.255	-0.001	56453731	50.0	48.9	
2	5.159	5.160	-0.001	18598612	50.0	52.0	
						RPD = 6.05	
34 Mirex							
1	5.325	5.325	0.000	72696378	50.0	51.9	
2	5.258	5.258	0.000	24342834	50.0	50.3	
						RPD = 3.25	
13 Endrin ketone							
1	5.503	5.504	-0.001	83983953	50.0	50.0	
2	5.504	5.505	-0.001	34806501	50.0	50.8	
						RPD = 1.55	
$ 24 DCB Decachlorobiphenyl							
1	6.316	6.320	-0.004	72524853	50.0	52.9	
2	6.313	6.317	-0.004	31129308	50.0	52.8	
						RPD = 0.13	

Reagents:

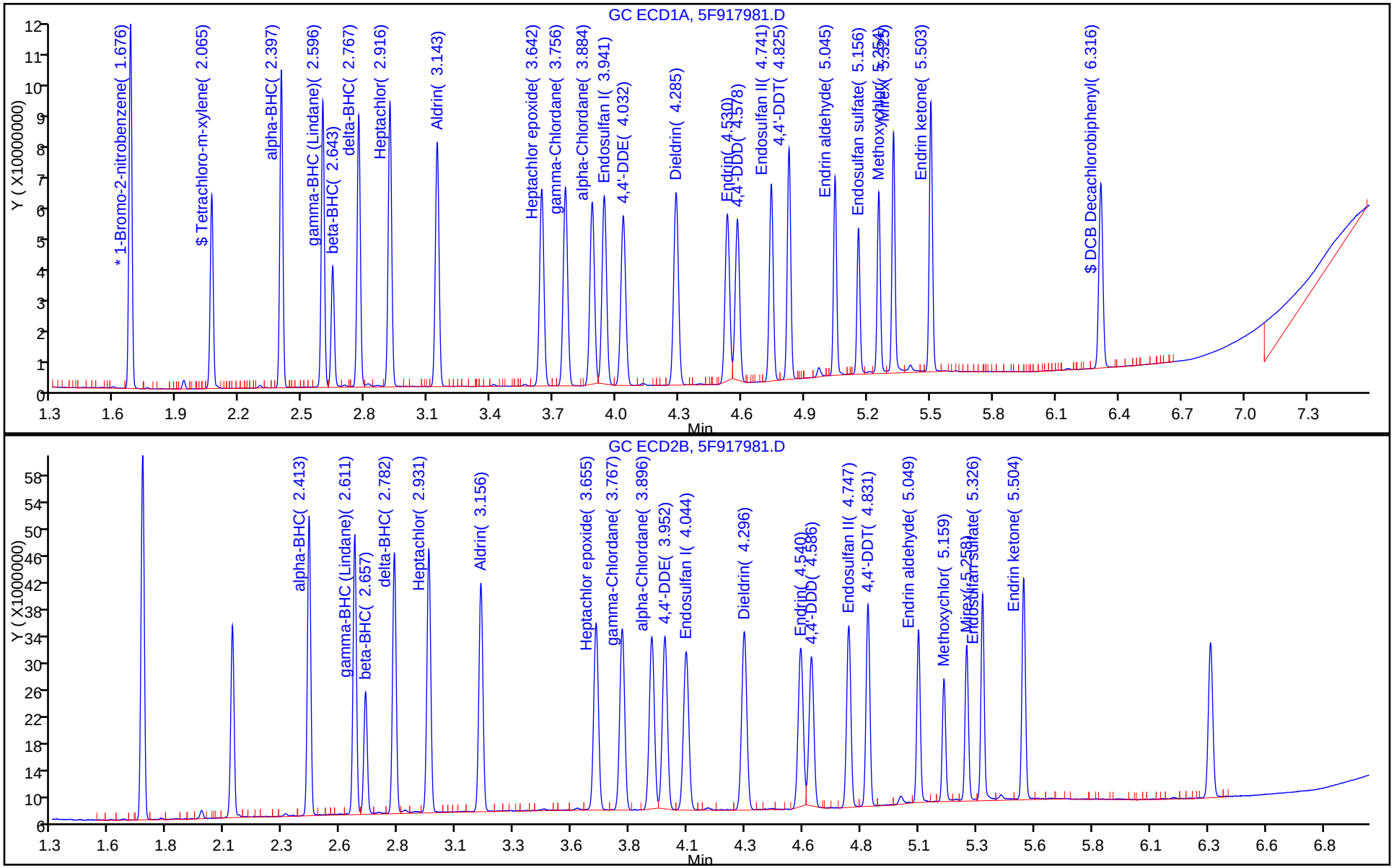
SGPESTL2_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917981.D

Injection Date:	08-Feb-2018 15:20:49	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917982.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 15:33:39 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-005
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:43 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:49:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.677	1.677	0.000	106430102	100.0	100.0	
2	1.693	1.693	0.000	51235598	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.065	2.065	0.000	123215733	100.0	106.3	
2	2.082	2.082	0.000	57065272	100.0	105.4	
						RPD = 0.85	
15 alpha-BHC							
1	2.398	2.398	0.000	197984634	100.0	106.7	
2	2.414	2.414	0.000	88749214	100.0	107.0	
						RPD = 0.28	
2 gamma-BHC (Lindane)							
1	2.597	2.597	0.000	185047465	100.0	106.3	
2	2.612	2.612	0.000	84852836	100.0	108.3	
						RPD = 1.88	
6 beta-BHC							
1	2.644	2.644	0.000	76985513	100.0	105.0	
2	2.657	2.657	0.000	36860082	100.0	106.1	
						RPD = 0.98	
32 delta-BHC							
1	2.768	2.768	0.000	185880344	100.0	106.7	
2	2.782	2.782	0.000	87379985	100.0	107.8	
						RPD = 1.01	
18 Heptachlor							
1	2.918	2.918	0.000	204717547	100.0	106.2	
2	2.932	2.932	0.000	93027957	100.0	107.6	
						RPD = 1.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.144	3.144	0.000	186937697	100.0	106.9	
2	3.157	3.157	0.000	87533726	100.0	109.2	
						RPD = 2.19	
12 Heptachlor epoxide							
1	3.644	3.644	0.000	174135650	100.0	105.4	
2	3.656	3.656	0.000	83400865	100.0	108.7	
						RPD = 3.11	
9 gamma-Chlordane							M
1	3.757	3.757	0.000	180573656	100.0	105.5	M
2	3.769	3.769	0.000	85495730	100.0	111.0	
						RPD = 5.09	
23 alpha-Chlordane							
1	3.886	3.886	0.000	173971562	100.0	105.1	
2	3.897	3.897	0.000	82686394	100.0	109.3	
						RPD = 3.96	
7 Endosulfan I							
1	3.943	3.943	0.000	180343228	100.0	106.5	
2	4.046	4.046	0.000	79499094	100.0	110.4	
						RPD = 3.66	
25 4,4'-DDE							
1	4.034	4.034	0.000	167454701	100.0	105.4	
2	3.953	3.953	0.000	84021883	100.0	109.6	
						RPD = 3.93	
30 Dieldrin							
1	4.287	4.287	0.000	189356636	100.0	105.1	
2	4.297	4.297	0.000	88904684	100.0	113.0	
						RPD = 7.26	
20 Endrin							
1	4.532	4.532	0.000	163248614	100.0	109.4	
2	4.542	4.542	0.000	77972026	100.0	110.9	
						RPD = 1.37	
16 4,4'-DDD							
1	4.579	4.579	0.000	152018212	100.0	109.8	
2	4.587	4.587	0.000	69982994	100.0	112.8	
						RPD = 2.68	
11 Endosulfan II							
1	4.742	4.742	0.000	157218083	100.0	104.8	
2	4.749	4.749	0.000	72333305	100.0	109.5	
						RPD = 4.38	
21 4,4'-DDT							
1	4.826	4.826	0.000	168695177	100.0	106.4	
2	4.832	4.832	0.000	73440122	100.0	108.7	
						RPD = 2.16	
5 Endrin aldehyde							
1	5.046	5.046	0.000	131641675	100.0	106.1	
2	5.050	5.050	0.000	56405724	100.0	110.0	
						RPD = 3.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.157	5.157	0.000	91986117	100.0	107.4	
2	5.327	5.327	0.000	63535053	100.0	110.7	
						RPD = 3.03	
10 Methoxychlor							
1	5.255	5.255	0.000	118321248	100.0	101.5	
2	5.160	5.160	0.000	38835157	100.0	113.2	
						RPD = 10.94	
34 Mirex							
1	5.325	5.325	0.000	151526775	100.0	107.1	
2	5.258	5.258	0.000	49790136	100.0	107.3	
						RPD = 0.14	
13 Endrin ketone							
1	5.504	5.504	0.000	177303224	100.0	104.5	
2	5.505	5.505	0.000	71586251	100.0	109.0	
						RPD = 4.21	
$ 24 DCB Decachlorobiphenyl							
1	6.317	6.317	0.000	152519713	100.0	106.6	
2	6.314	6.314	0.000	63302116	100.0	108.5	
						RPD = 1.80	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

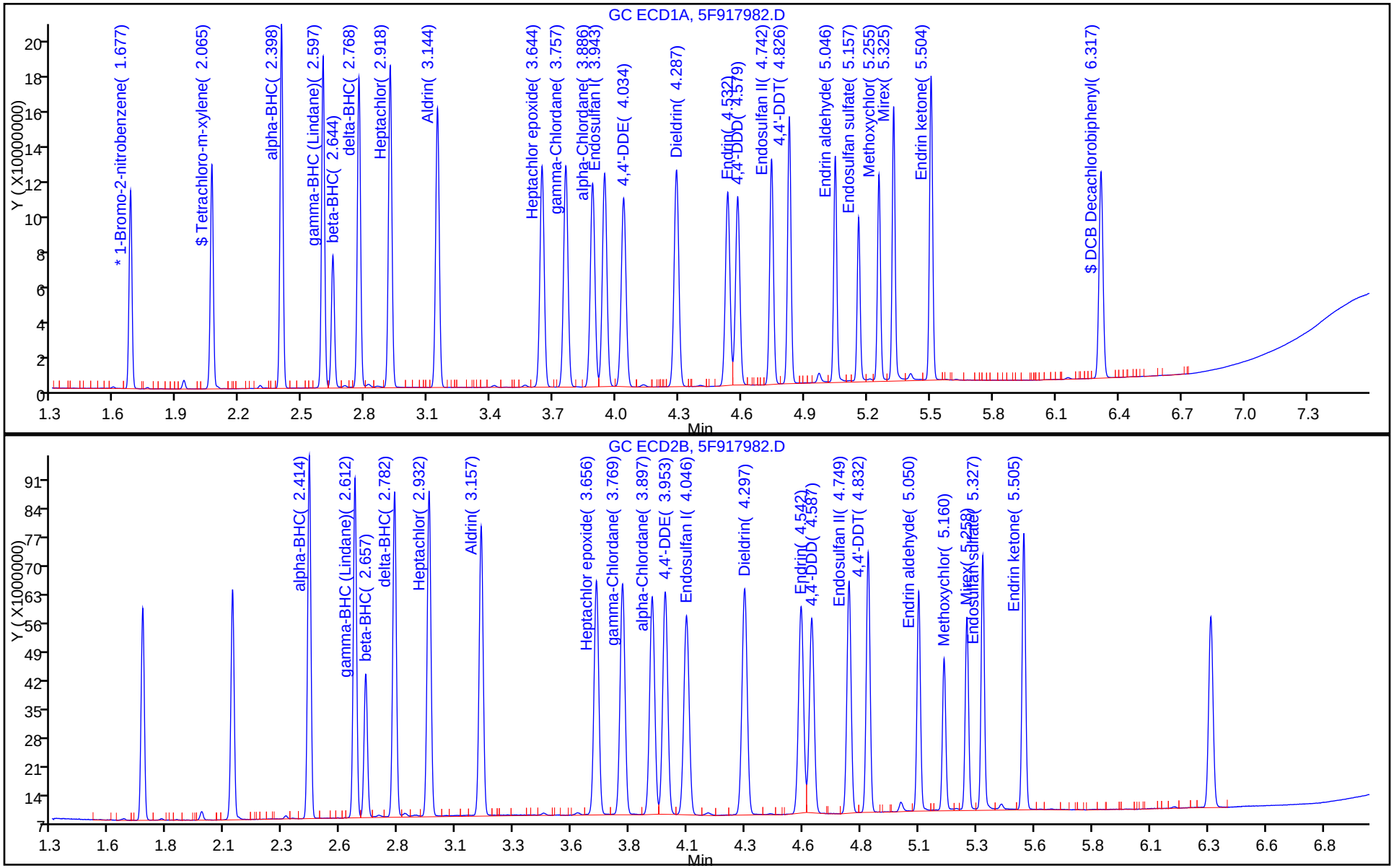
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:44 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917982.D

Injection Date:	08-Feb-2018 15:33:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

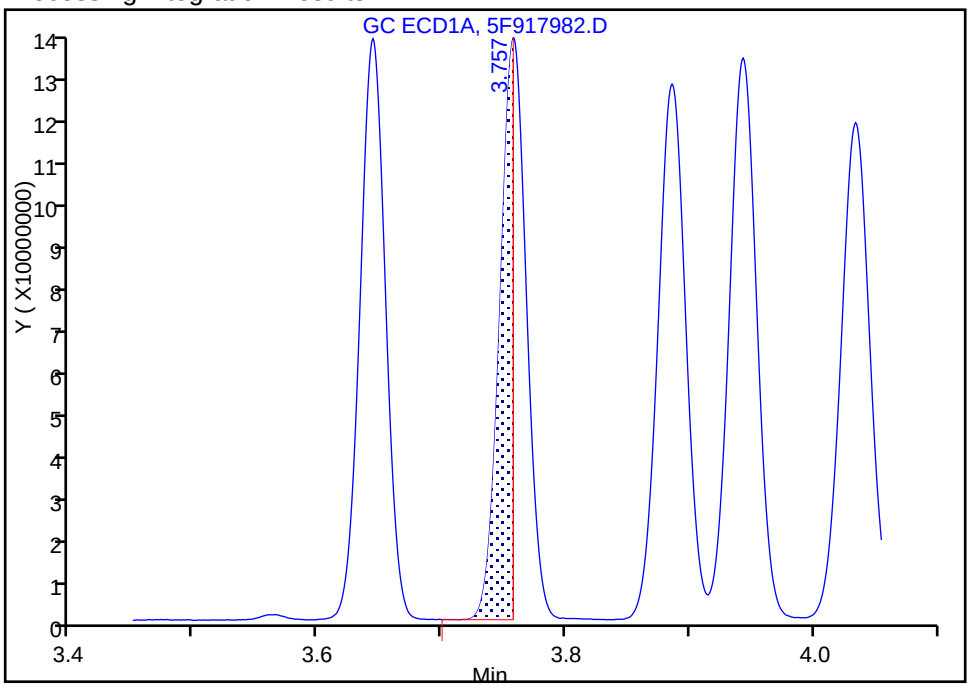
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917982.D				
Injection Date:	08-Feb-2018 15:33:39	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

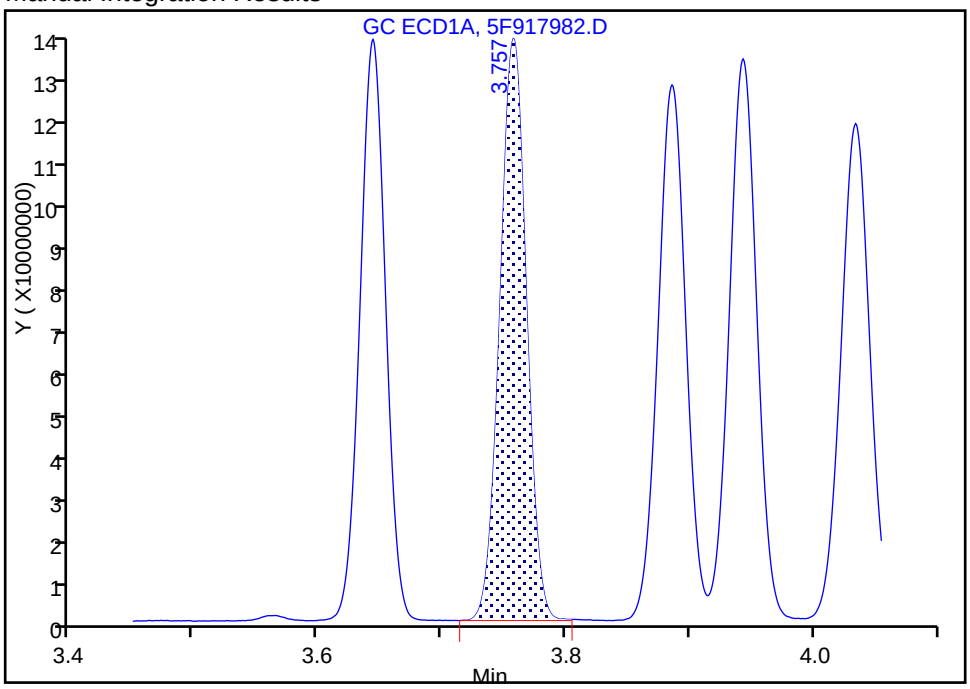
Processing Integration Results

RT: 3.76
Area: 89446505
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 180573656
Amount: 105.4843
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:12:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917983.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 15:46:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-006
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:51 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:15:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.676	1.677	-0.001	105552287	100.0	100.0	
2	1.693	1.693	0.000	52090791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.064	2.065	-0.001	175902150	150.0	152.9	
2	2.081	2.082	-0.001	81573406	150.0	148.1	
						RPD = 3.20	
15 alpha-BHC							
1	2.398	2.398	0.000	430904286	250.0	234.3	
2	2.414	2.414	0.000	197633595	250.0	234.5	
						RPD = 0.08	
2 gamma-BHC (Lindane)							
1	2.596	2.597	-0.001	398412998	250.0	230.8	
2	2.611	2.612	-0.001	186395339	250.0	234.0	
						RPD = 1.40	
6 beta-BHC							
1	2.644	2.644	0.000	159249214	250.0	219.1	
2	2.657	2.657	0.000	77723192	250.0	220.0	
						RPD = 0.41	
32 delta-BHC							
1	2.768	2.768	0.000	399132616	250.0	231.1	
2	2.783	2.782	0.001	189014569	250.0	229.4	
						RPD = 0.74	
18 Heptachlor							
1	2.918	2.918	0.000	429151800	250.0	224.5	
2	2.932	2.932	0.000	196010377	250.0	223.1	
						RPD = 0.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.144	3.144	0.000	394976058	250.0	227.7	M
2	3.157	3.157	0.000	182289750	250.0	223.7	
						RPD = 1.74	
12 Heptachlor epoxide							
1	3.644	3.644	0.000	368362600	250.0	224.8	
2	3.655	3.656	-0.001	171452059	250.0	219.8	
						RPD = 2.23	
9 gamma-Chlordane							
1	3.757	3.757	0.000	386424183	250.0	227.6	
2	3.769	3.769	0.000	177366152	250.0	226.5	
						RPD = 0.50	
23 alpha-Chlordane							
1	3.885	3.886	-0.001	371872985	250.0	226.4	
2	3.897	3.897	0.000	172195854	250.0	223.9	
						RPD = 1.13	
7 Endosulfan I							
1	3.942	3.943	-0.001	389286819	250.0	231.7	
2	4.044	4.046	-0.002	164724791	250.0	225.1	
						RPD = 2.91	
25 4,4'-DDE							
1	4.033	4.034	-0.001	356029612	250.0	225.9	
2	3.953	3.953	0.000	177638671	250.0	227.9	
						RPD = 0.88	
30 Dieldrin							
1	4.286	4.287	-0.001	405771901	250.0	227.1	
2	4.296	4.297	-0.001	185051602	250.0	231.4	
						RPD = 1.87	
20 Endrin							
1	4.531	4.532	-0.001	349985356	250.0	236.5	
2	4.540	4.542	-0.002	164573310	250.0	230.2	
						RPD = 2.68	
16 4,4'-DDD							
1	4.579	4.579	0.000	329403768	250.0	239.9	
2	4.587	4.587	0.000	150516308	250.0	238.6	
						RPD = 0.55	
11 Endosulfan II							
1	4.741	4.742	-0.001	334963717	250.0	225.1	
2	4.748	4.749	-0.001	151418152	250.0	225.4	
						RPD = 0.13	
21 4,4'-DDT							
1	4.825	4.826	-0.001	364667000	250.0	231.9	
2	4.831	4.832	-0.001	156373270	250.0	227.7	
						RPD = 1.83	
5 Endrin aldehyde							
1	5.045	5.046	-0.001	275763649	250.0	224.1	
2	5.049	5.050	-0.001	118598050	250.0	227.4	
						RPD = 1.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.157	5.157	0.000	188574620	250.0	221.9	
2	5.327	5.327	0.000	129905520	250.0	222.6	
						RPD = 0.28	
10 Methoxychlor							
1	5.254	5.255	-0.001	265232595	250.0	229.4	
2	5.159	5.160	-0.001	78487083	250.0	225.1	
						RPD = 1.89	
34 Mirex							
1	5.324	5.325	-0.001	314841411	250.0	224.4	
2	5.258	5.258	0.000	108314020	250.0	229.5	
						RPD = 2.24	
13 Endrin ketone							
1	5.504	5.504	0.000	377032577	250.0	224.1	
2	5.504	5.505	-0.001	150178372	250.0	224.9	
						RPD = 0.37	
$ 24 DCB Decachlorobiphenyl							
1	6.316	6.317	-0.001	211605263	150.0	149.1	
2	6.313	6.314	-0.001	86601460	150.0	146.0	
						RPD = 2.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

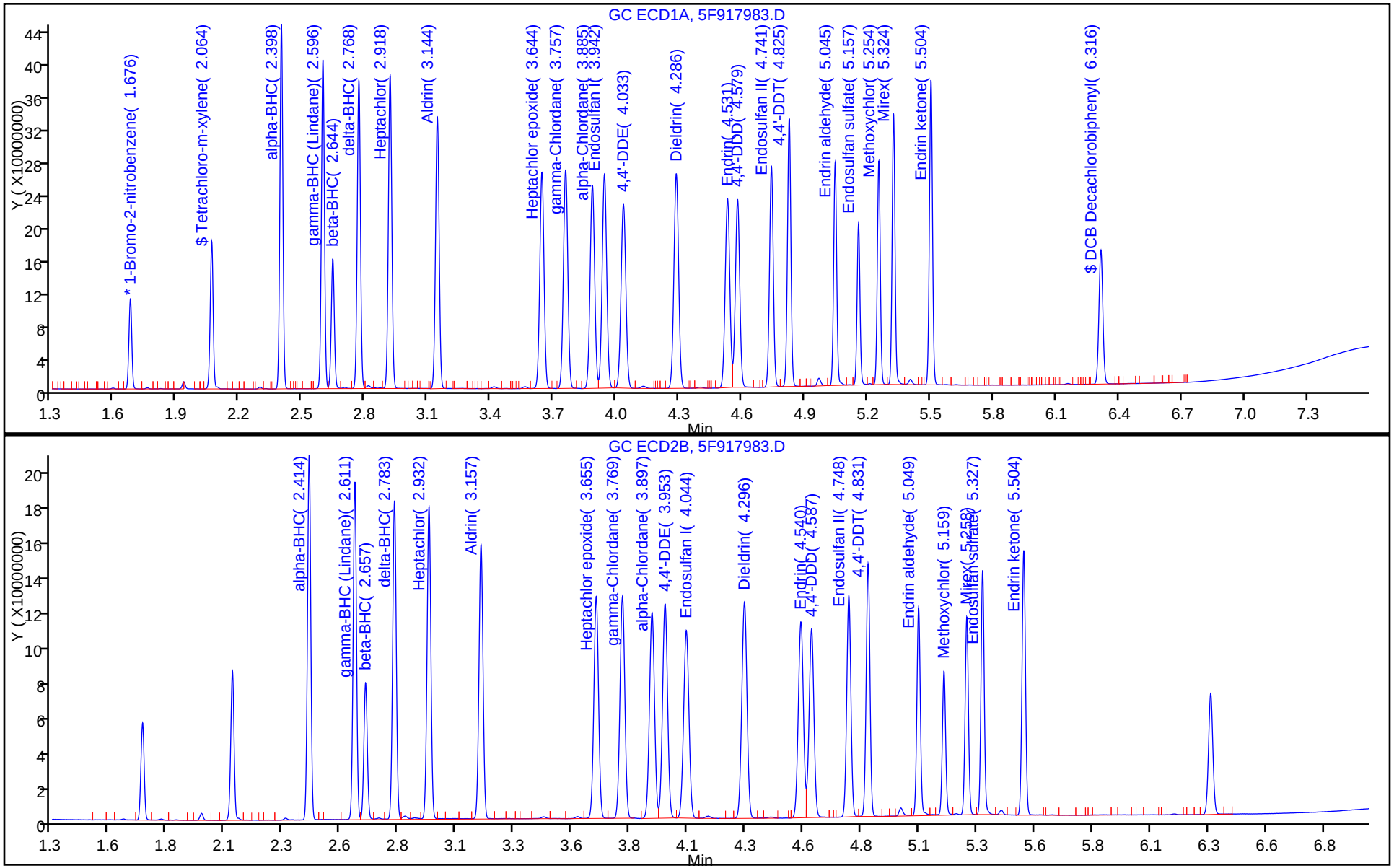
SGPESTL4_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:52 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917983.D

Injection Date:	08-Feb-2018 15:46:31	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

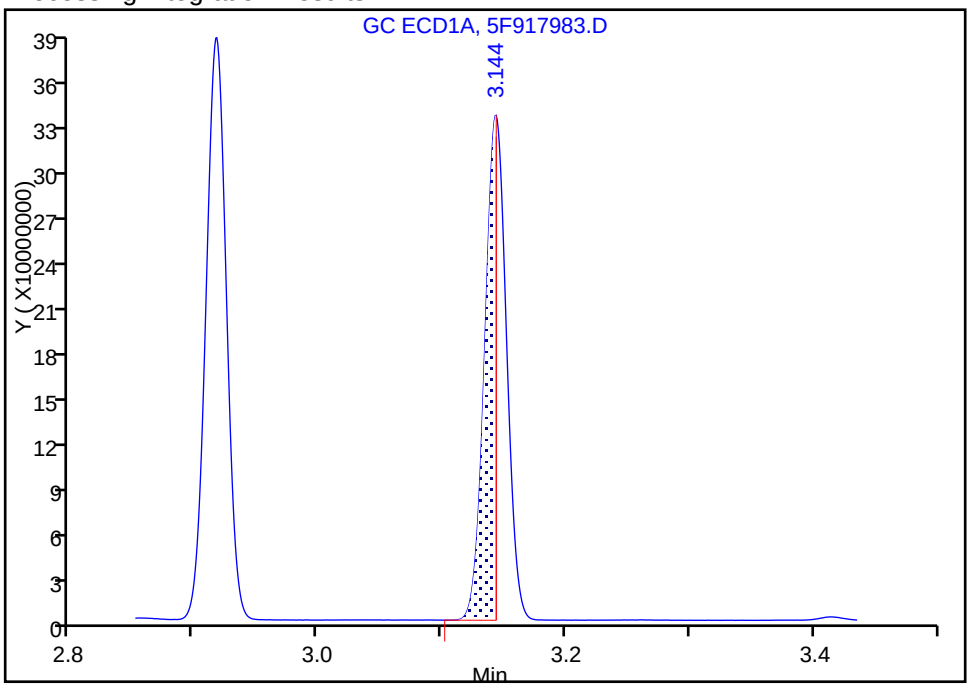
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917983.D				
Injection Date:	08-Feb-2018 15:46:31	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

8 Aldrin, CAS: 309-00-2

Signal: 1

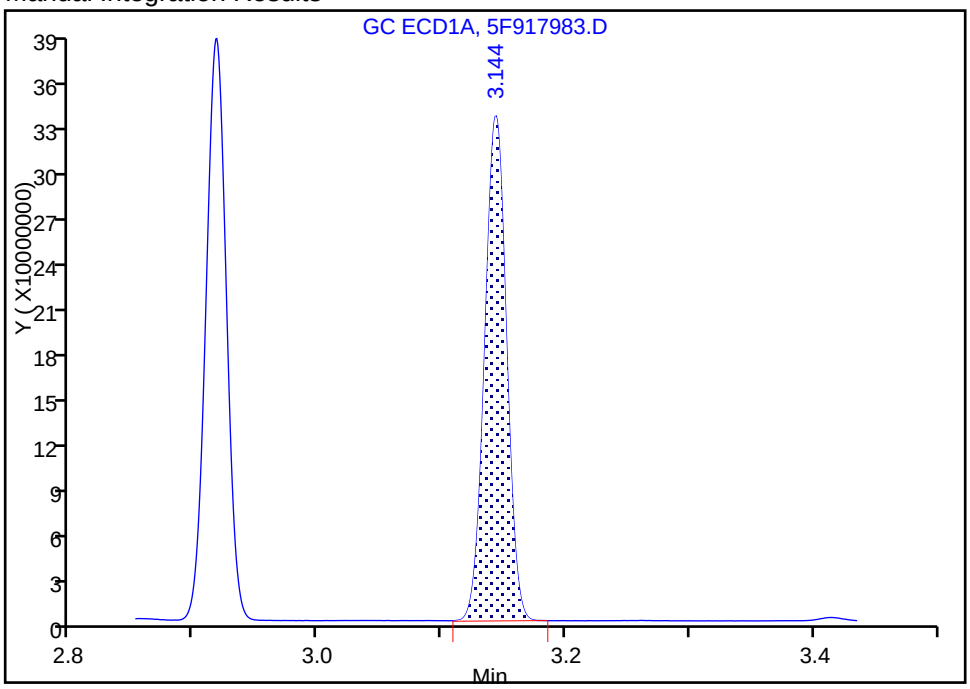
Processing Integration Results

RT: 3.14
Area: 203958684
Amount: 128.9174
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 394976058
Amount: 227.6648
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:15:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917984.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 15:59:23 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-007
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.677	0.002	106814795	100.0	100.0	
2	1.695	1.693	0.002	53935995	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.067	2.065	0.002	235220759	200.0	202.1	
2	2.084	2.082	0.002	113029379	200.0	198.2	
						RPD = 1.94	
15 alpha-BHC							
1	2.401	2.398	0.003	923570686	500.0	496.2	
2	2.416	2.414	0.002	419564284	500.0	480.7	
						RPD = 3.17	
2 gamma-BHC (Lindane)							
1	2.600	2.597	0.003	849025791	500.0	486.0	
2	2.614	2.612	0.002	390723065	500.0	473.8	
						RPD = 2.54	
6 beta-BHC							
1	2.646	2.644	0.002	331155303	500.0	450.2	
2	2.660	2.657	0.003	159913874	500.0	437.1	
						RPD = 2.94	
32 delta-BHC							
1	2.771	2.768	0.003	856129999	500.0	489.9	
2	2.785	2.782	0.003	396774899	500.0	465.1	
						RPD = 5.19	
18 Heptachlor							
1	2.920	2.918	0.002	912896898	500.0	472.0	
2	2.935	2.932	0.003	406646858	500.0	446.9	
						RPD = 5.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.146	3.144	0.002	850031062	500.0	484.2	
2	3.160	3.157	0.003	380140598	500.0	450.6	
						RPD = 7.18	
12 Heptachlor epoxide							
1	3.646	3.644	0.002	769219581	500.0	463.9	
2	3.659	3.656	0.003	353459395	500.0	437.7	
						RPD = 5.81	
9 gamma-Chlordane							
1	3.760	3.757	0.003	822451651	500.0	478.7	
2	3.772	3.769	0.003	371365252	500.0	458.0	
						RPD = 4.43	
23 alpha-Chlordane							
1	3.888	3.886	0.002	783747548	500.0	471.6	
2	3.900	3.897	0.003	357517858	500.0	448.9	
						RPD = 4.92	
7 Endosulfan I							
1	3.945	3.943	0.002	824763411	500.0	485.2	
2	4.049	4.046	0.003	339207089	500.0	447.6	
						RPD = 8.05	
25 4,4'-DDE							
1	4.036	4.034	0.002	737291084	500.0	462.4	
2	3.957	3.953	0.004	371815839	500.0	460.8	
						RPD = 0.34	
30 Dieldrin							
1	4.290	4.287	0.003	846046313	500.0	468.0	
2	4.300	4.297	0.003	383832119	500.0	463.6	
						RPD = 0.94	
20 Endrin							
1	4.535	4.532	0.003	728745533	500.0	486.6	
2	4.545	4.542	0.003	339835377	500.0	459.2	
						RPD = 5.80	
16 4,4'-DDD							
1	4.582	4.579	0.003	699583482	500.0	503.6	
2	4.590	4.587	0.003	314065740	500.0	480.9	
						RPD = 4.60	
11 Endosulfan II							
1	4.743	4.742	0.001	696737363	500.0	462.7	
2	4.750	4.749	0.001	309097864	500.0	444.4	
						RPD = 4.03	
21 4,4'-DDT							
1	4.828	4.826	0.002	775918921	500.0	487.7	
2	4.834	4.832	0.002	325761024	500.0	458.2	
						RPD = 6.24	
5 Endrin aldehyde							
1	5.047	5.046	0.001	575136177	500.0	461.8	
2	5.051	5.050	0.001	238603904	500.0	441.9	
						RPD = 4.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.159	5.157	0.002	392630249	500.0	456.6	
2	5.329	5.327	0.002	265325529	500.0	439.0	
						RPD = 3.93	
10 Methoxychlor							
1	5.256	5.255	0.001	553507804	500.0	473.0	
2	5.161	5.160	0.001	156515344	500.0	433.5	
						RPD = 8.72	
34 Mirex							
1	5.326	5.325	0.001	657412086	500.0	463.1	
2	5.260	5.258	0.002	218555302	500.0	447.3	
						RPD = 3.47	
13 Endrin ketone							
1	5.505	5.504	0.001	792565321	500.0	465.4	
2	5.506	5.505	0.001	303969373	500.0	439.6	
						RPD = 5.70	
$ 24 DCB Decachlorobiphenyl							
1	6.318	6.317	0.001	286145088	200.0	199.2	
2	6.315	6.314	0.001	115107801	200.0	187.4	
						RPD = 6.10	

Reagents:

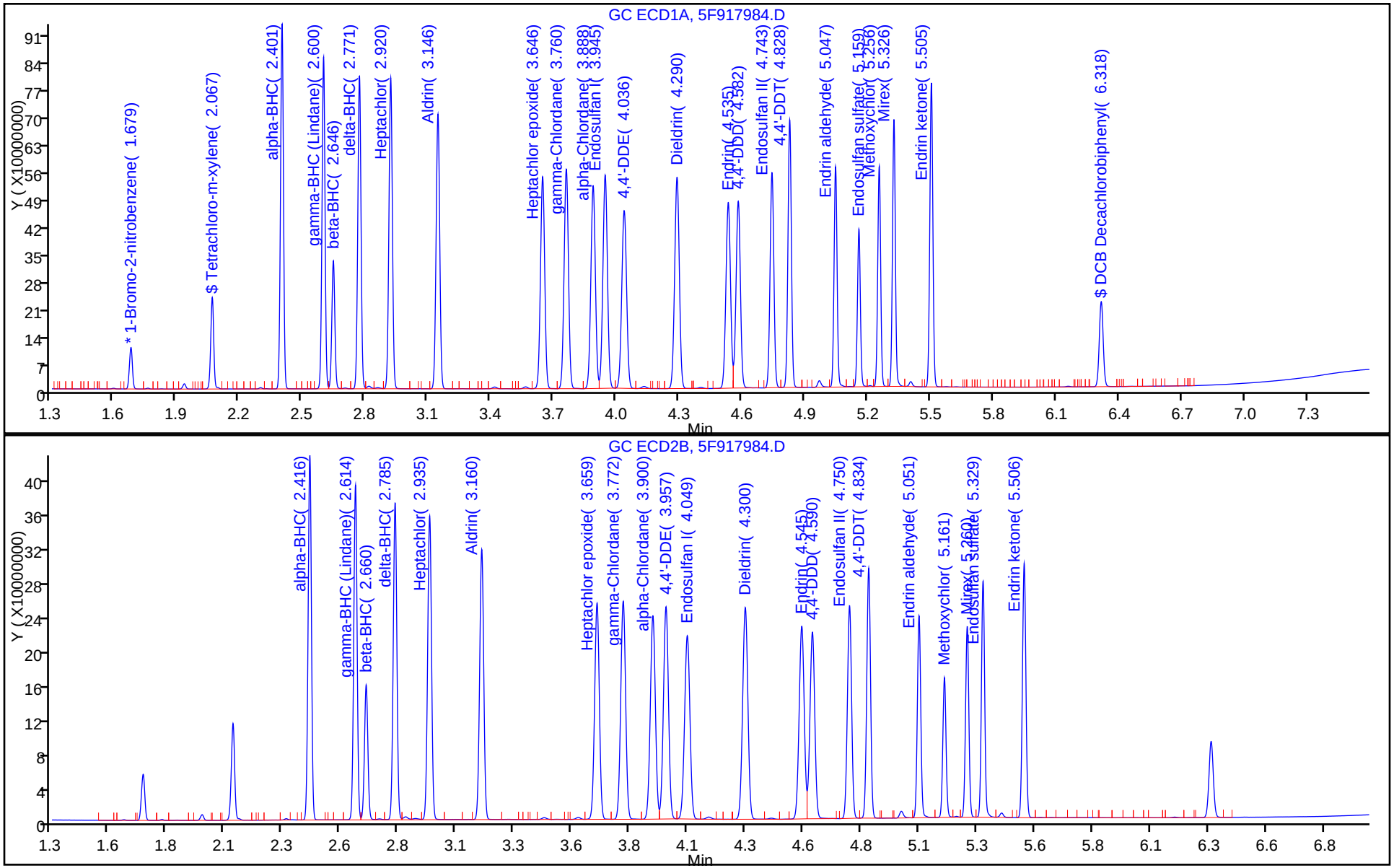
SGPESTL5_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917984.D

Injection Date:	08-Feb-2018 15:59:23	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 15:07 Calibration End Date: 02/08/2018 15:59 Calibration ID: 66473

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-495906/3	5F917980.D
Level 2	STD 460-495906/4	5F917981.D
Level 3	STD 460-495906/5	5F917982.D
Level 4	STD 460-495906/6	5F917983.D
Level 5	STD 460-495906/7	5F917984.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.6128	1.6727	1.7322	1.5176	1.5558	Ave		1.6182				5.4		20.0			
gamma-BHC (Lindane)	1.5088	1.5998	1.6561	1.4313	1.4488	Ave		1.5290				6.3		20.0			
beta-BHC	0.7622	0.7201	0.7194	0.5968	0.5930	Ave		0.6783				11.5		20.0			
delta-BHC	1.7012	1.5794	1.7055	1.4514	1.4713	Ave		1.5817				7.7		20.0			
Heptachlor	1.9079	1.6981	1.8157	1.5051	1.5079	Ave		1.6870				10.7		20.0			
Aldrin	1.7433	1.5591	1.7085	1.3998	1.4096	Ave		1.5640				10.3		20.0			
Heptachlor epoxide	1.7365	1.4946	1.6278	1.3166	1.3107	Ave		1.4972				12.6		20.0			
trans-Chlordane	1.5998	1.5094	1.6687	1.3620	1.3771	Ave		1.5034				9.0		20.0			
cis-Chlordane	1.6612	1.4596	1.6138	1.3223	1.3257	Ave		1.4765				10.7		20.0			
4,4'-DDE	1.6441	1.4536	1.6399	1.3641	1.3787	Ave		1.4961				9.2		20.0			
Endosulfan I	1.5253	1.4251	1.5516	1.2649	1.2578	Ave		1.4050				9.9		20.0			
Dieldrin	1.5420	1.5535	1.7352	1.4210	1.4233	Ave		1.5350				8.4		20.0			
Endrin	1.4762	1.3393	1.5218	1.2637	1.2601	Ave		1.3722				8.8		20.0			
4,4'-DDD	1.1701	1.1977	1.3659	1.1558	1.1646	Ave		1.2108				7.3		20.0			
Endosulfan II	1.4360	1.2918	1.4118	1.1627	1.1462	Ave		1.2897				10.5		20.0			
4,4'-DDT	1.4587	1.2905	1.4334	1.2008	1.2080	Ave		1.3183				9.3		20.0			
Endrin aldehyde	1.1097	0.9997	1.1009	0.9107	0.8848	Ave		1.0011				10.4		20.0			
Methoxychlor	0.7100	0.6962	0.7580	0.6027	0.5804	Ave		0.6694				11.2		20.0			
Mirex	1.0049	0.9112	0.9718	0.8317	0.8104	Ave		0.9060				9.4		20.0			
Endosulfan sulfate	1.2250	1.1562	1.2401	0.9975	0.9839	Ave		1.1205				11.0		20.0			
Endrin ketone	1.4292	1.3028	1.3972	1.1532	1.1271	Ave		1.2819				10.7		20.0			
Tetrachloro-m-xylene	0.9989	1.0814	1.1138	1.0440	1.0478	Ave		1.0572				4.1		20.0			
DCB Decachlorobiphenyl	1.1170	1.1652	1.2355	1.1083	1.0671	Ave		1.1386				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 15:07 Calibration End Date: 02/08/2018 15:59 Calibration ID: 66473

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-495906/3	5F917980.D
Level 2	STD 460-495906/4	5F917981.D
Level 3	STD 460-495906/5	5F917982.D
Level 4	STD 460-495906/6	5F917983.D
Level 5	STD 460-495906/7	5F917984.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	2108728	44687349	88749214	197633595	419564284	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	1972676	42739911	84852836	186395339	390723065	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	996510	19237887	36860082	77723192	159913874	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	2224228	42194450	87379985	189014569	396774899	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	2494567	45367425	93027957	196010377	406646858	2.50	50.0	100	250	500
Aldrin	BNB	Ave	2279345	41652278	87533726	182289750	380140598	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	2270365	39930331	83400865	171452059	353459395	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	2091692	40324646	85495730	177366152	371365252	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	2171979	38994063	82686394	172195854	357517858	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	2149603	38833972	84021883	177638671	371815839	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	1994342	38072543	79499094	164724791	339207089	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	2016147	41502108	88904684	185051602	383832119	2.50	50.0	100	250	500
Endrin	BNB	Ave	1930076	35780490	77972026	164573310	339835377	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	1529930	31997185	69982994	150516308	314065740	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	1877492	34512288	72333305	151418152	309097864	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	1907192	34475913	73440122	156373270	325761024	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	1450864	26707784	56405724	118598050	238603904	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	928275	18598612	38835157	78487083	156515344	2.50	50.0	100	250	500
Mirex	BNB	Ave	1313873	24342834	49790136	108314020	218555302	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	1601596	30890207	63535053	129905520	265325529	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	1868690	34806501	71586251	150178372	303969373	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	3265145	28889437	57065272	81573406	113029379	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	3651260	31129308	63302116	86601460	115107801	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 15:07:59 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-003
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:27 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:19:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.674	1.679	-0.005	101612874	100.0	100.0	
2	1.691	1.696	-0.005	52298987	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.063	2.068	-0.005	6270697	6.25	5.83	
2	2.079	2.085	-0.006	3265145	6.25	6.02	
						RPD = 3.33	
15 alpha-BHC							
1	2.395	2.398	-0.003	4397647	2.50	2.48	
2	2.411	2.414	-0.003	2108728	2.50	2.49	
						RPD = 0.33	
2 gamma-BHC (Lindane)							M
1	2.593	2.597	-0.004	4278999	2.50	2.57	
2	2.608	2.612	-0.004	1972676	2.50	2.47	M
						RPD = 4.27	
6 beta-BHC							M
1	2.641	2.644	-0.003	1969511	2.50	2.81	M
2	2.655	2.657	-0.002	996510	2.50	2.81	M
						RPD = 0.18	
32 delta-BHC							M
1	2.765	2.768	-0.003	4221592	2.50	2.54	
2	2.779	2.782	-0.003	2224228	2.50	2.69	M
						RPD = 5.72	
18 Heptachlor							M
1	2.914	2.918	-0.004	4952392	2.50	2.69	
2	2.929	2.932	-0.003	2494567	2.50	2.83	M
						RPD = 4.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.139	3.144	-0.005	4297556	2.50	2.57	
2	3.153	3.157	-0.004	2279345	2.50	2.79	M
						RPD = 7.96	
12 Heptachlor epoxide							M
1	3.638	3.644	-0.006	4311545	2.50	2.73	
2	3.651	3.656	-0.005	2270365	2.50	2.90	M
						RPD = 5.90	
9 gamma-Chlordane							M
1	3.752	3.757	-0.005	4323898	2.50	2.65	
2	3.763	3.769	-0.006	2091692	2.50	2.66	M
						RPD = 0.56	
23 alpha-Chlordane							M
1	3.882	3.886	-0.004	4347583	2.50	2.75	
2	3.892	3.897	-0.005	2171979	2.50	2.81	M
						RPD = 2.26	
7 Endosulfan I							M
1	3.937	3.943	-0.006	4175982	2.50	2.58	
2	4.042	4.046	-0.004	1994342	2.50	2.71	M
						RPD = 4.98	
25 4,4'-DDE							M
1	4.029	4.034	-0.005	4121228	2.50	2.72	
2	3.946	3.953	-0.007	2149603	2.50	2.75	M
						RPD = 1.12	
30 Dieldrin							
1	4.282	4.287	-0.005	4691200	2.50	2.73	
2	4.293	4.297	-0.004	2016147	2.50	2.51	
						RPD = 8.26	
20 Endrin							M
1	4.526	4.532	-0.006	3446137	2.50	2.42	
2	4.536	4.542	-0.006	1930076	2.50	2.69	M
						RPD = 10.60	
16 4,4'-DDD							M
1	4.574	4.579	-0.005	3060444	2.50	2.32	
2	4.583	4.587	-0.004	1529930	2.50	2.42	M
						RPD = 4.24	
11 Endosulfan II							
1	4.737	4.742	-0.005	4003362	2.50	2.79	
2	4.743	4.749	-0.006	1877492	2.50	2.78	
						RPD = 0.39	
21 4,4'-DDT							M
1	4.823	4.826	-0.003	3895238	2.50	2.57	M
2	4.828	4.832	-0.004	1907192	2.50	2.77	
						RPD = 7.22	
5 Endrin aldehyde							M
1	5.043	5.046	-0.003	3342446	2.50	2.82	M
2	5.047	5.050	-0.003	1450864	2.50	2.77	
						RPD = 1.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.155	5.157	-0.002	2248841	2.50	2.75	M
2	5.324	5.327	-0.003	1601596	2.50	2.73	
						RPD = 0.59	
10 Methoxychlor							M
1	5.253	5.255	-0.002	3180801	2.50	2.86	M
2	5.157	5.160	-0.003	928275	2.50	2.65	M
						RPD = 7.48	
34 Mirex							M
1	5.323	5.325	-0.002	3600068	2.50	2.67	M
2	5.255	5.258	-0.003	1313873	2.50	2.77	M
						RPD = 3.95	
13 Endrin ketone							M
1	5.501	5.504	-0.003	4565183	2.50	2.82	M
2	5.502	5.505	-0.003	1868690	2.50	2.79	
						RPD = 1.10	
$ 24 DCB Decachlorobiphenyl							
1	6.313	6.320	-0.007	7852927	6.25	5.94	
2	6.312	6.317	-0.005	3651260	6.25	6.33	
						RPD = 6.45	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

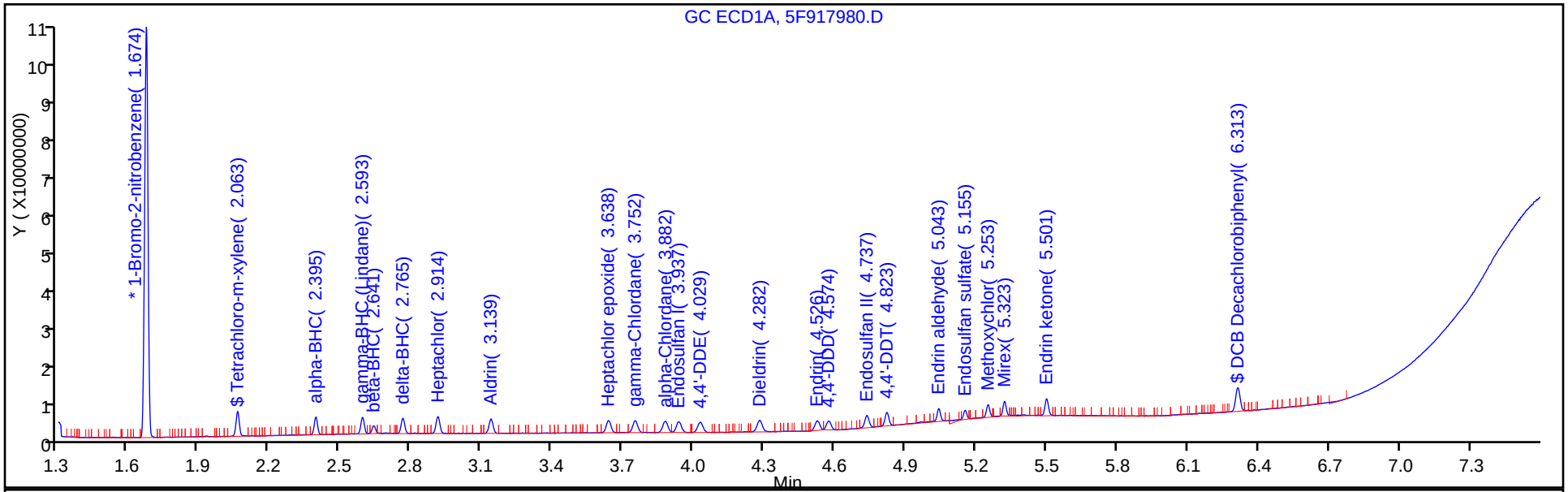
SGPEST-L1_00010	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

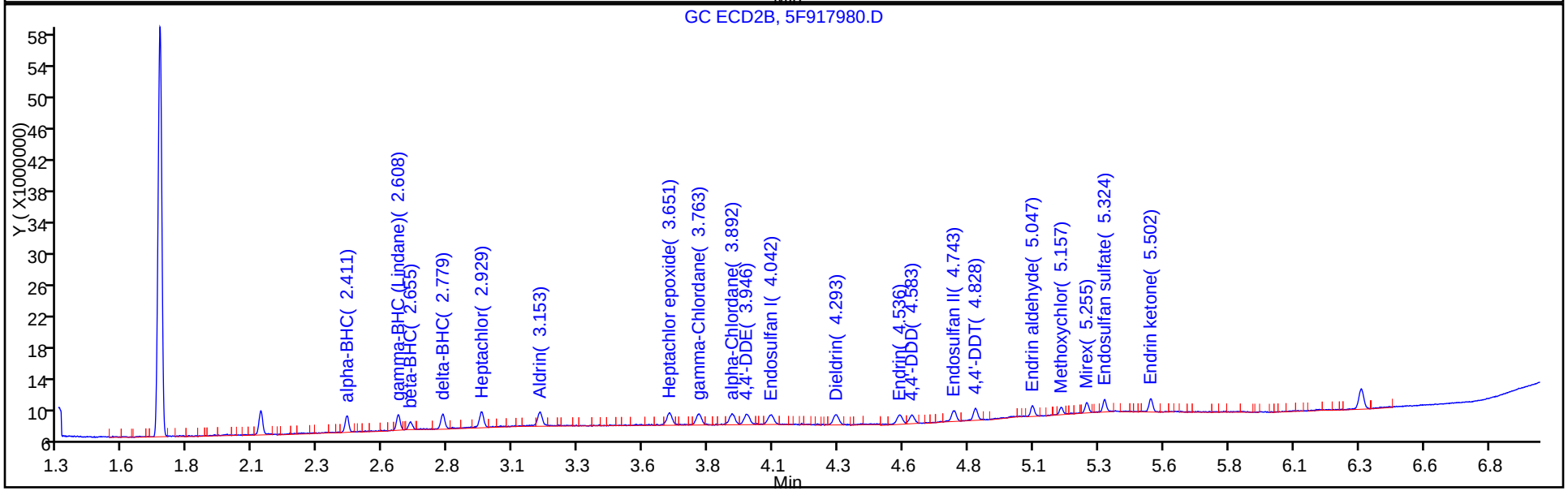
Report Date: 09-Feb-2018 12:03:28 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D

Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

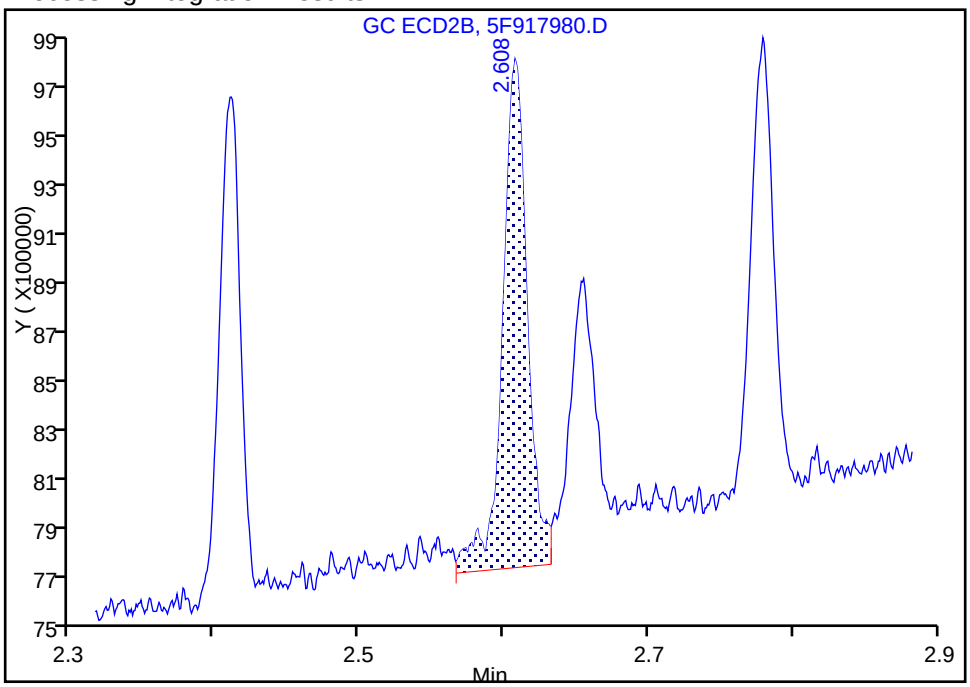
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 2

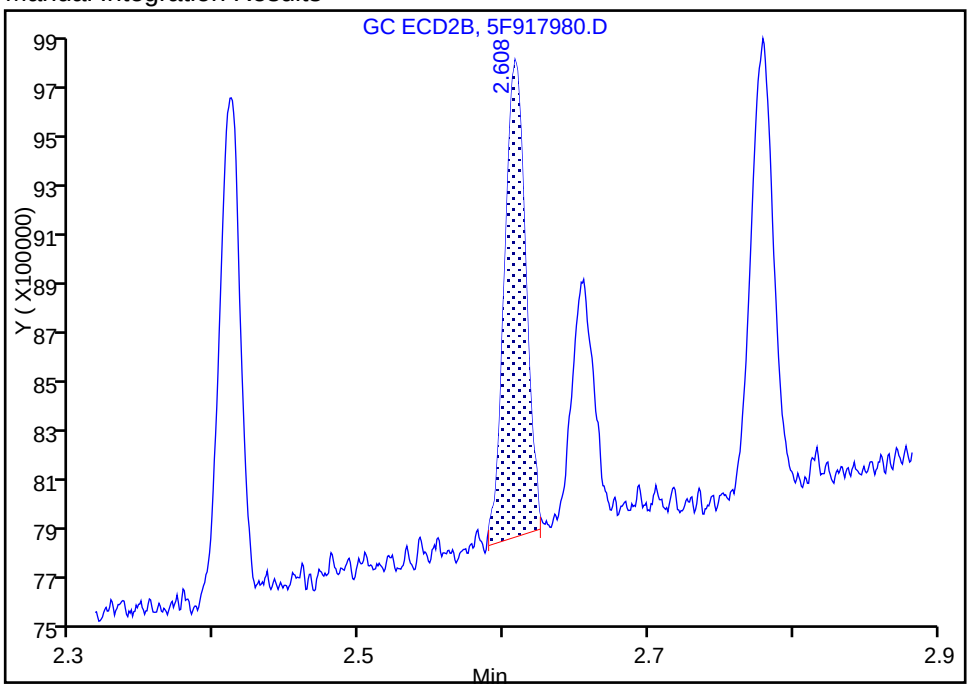
Processing Integration Results

RT: 2.61
Area: 2466178
Amount: 2.939023
Amount Units: ug/l



Manual Integration Results

RT: 2.61
Area: 1972676
Amount: 2.466971
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:37:34

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

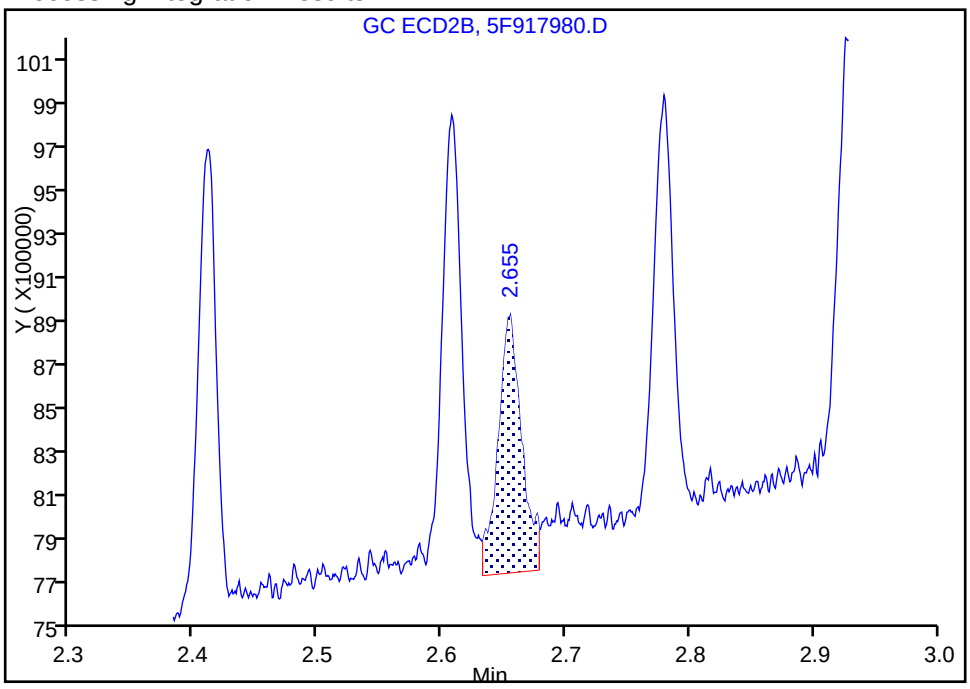
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

6 beta-BHC, CAS: 319-85-7

Signal: 2

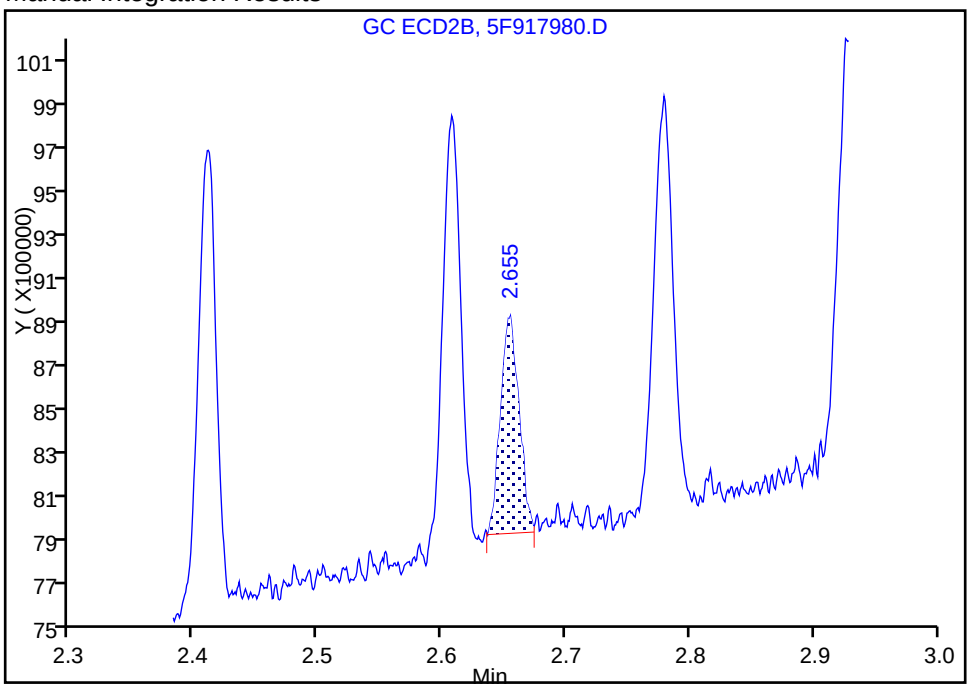
Processing Integration Results

RT: 2.66
Area: 1504881
Amount: 1.927185
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 996510
Amount: 2.809110
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:37:29

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

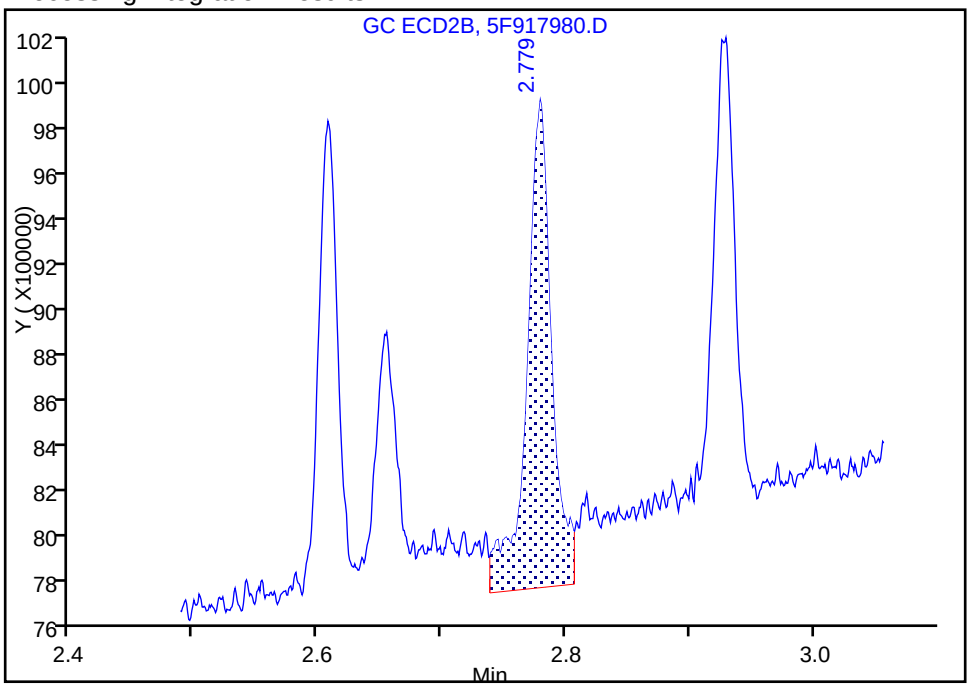
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

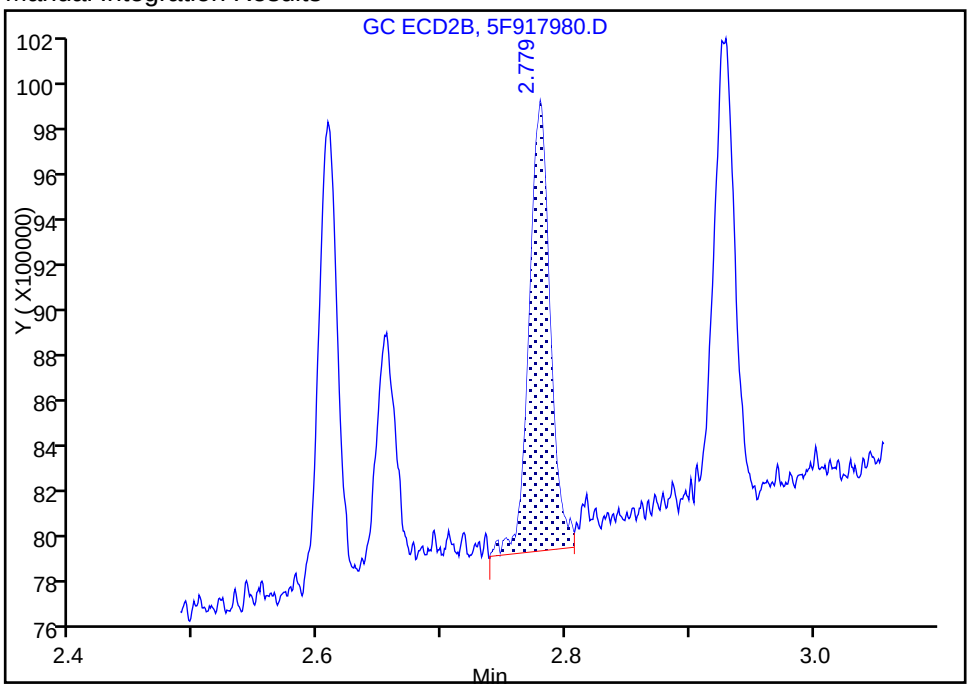
Processing Integration Results

RT: 2.78
Area: 2875706
Amount: 3.270256
Amount Units: ug/l



Manual Integration Results

RT: 2.78
Area: 2224228
Amount: 2.688754
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:36:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

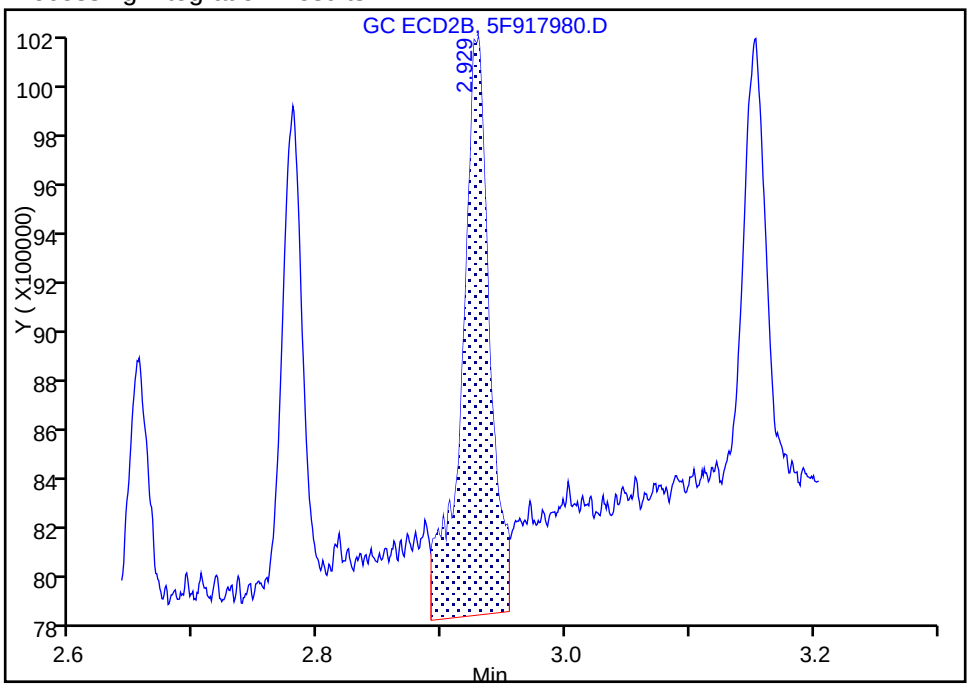
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

18 Heptachlor, CAS: 76-44-8

Signal: 2

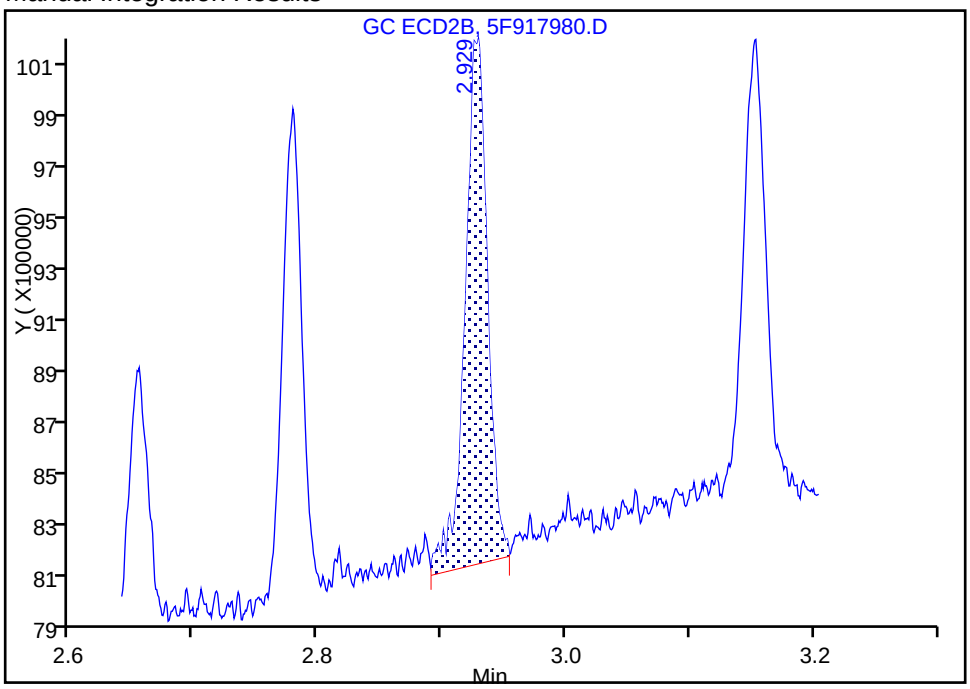
Processing Integration Results

RT: 2.93
Area: 3459889
Amount: 2.077208
Amount Units: ug/l



Manual Integration Results

RT: 2.93
Area: 2494567
Amount: 2.827468
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:42

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

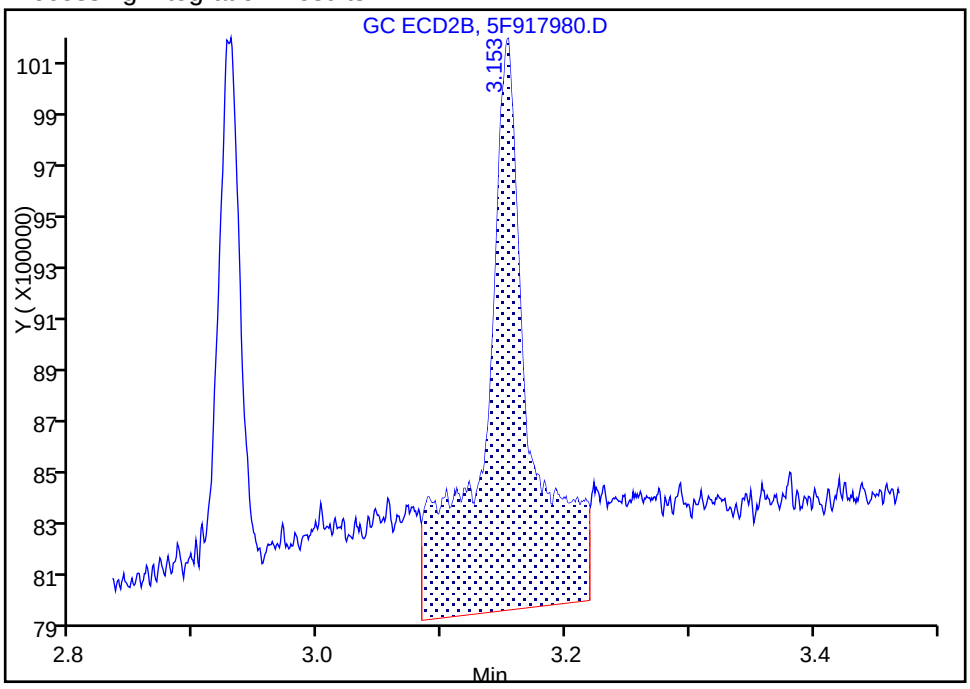
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

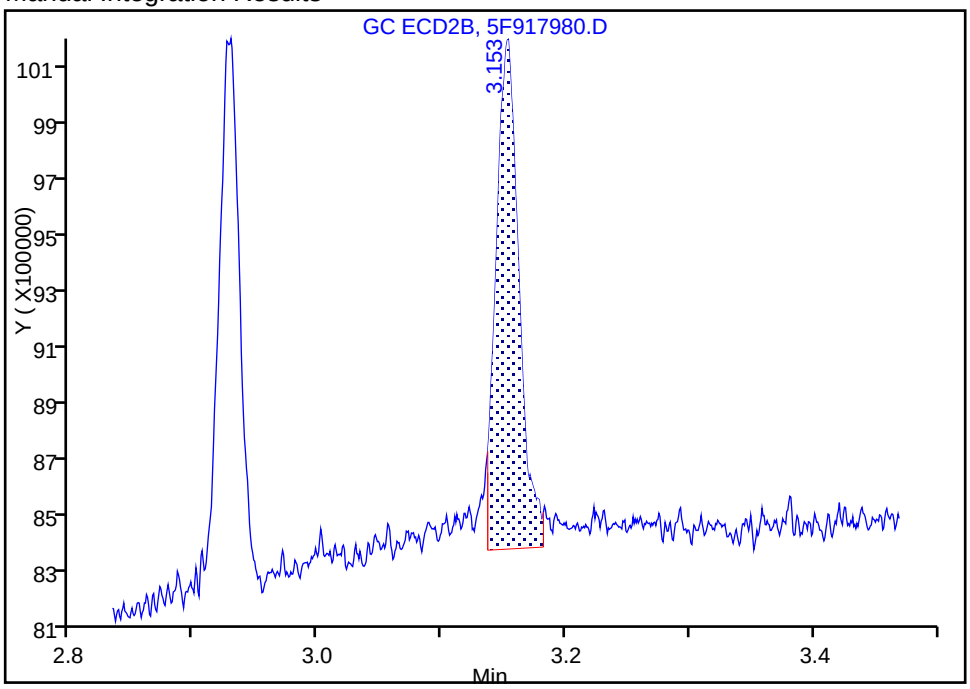
Processing Integration Results

RT: 3.15
Area: 5472000
Amount: 2.231586
Amount Units: ug/l



Manual Integration Results

RT: 3.15
Area: 2279345
Amount: 2.786550
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

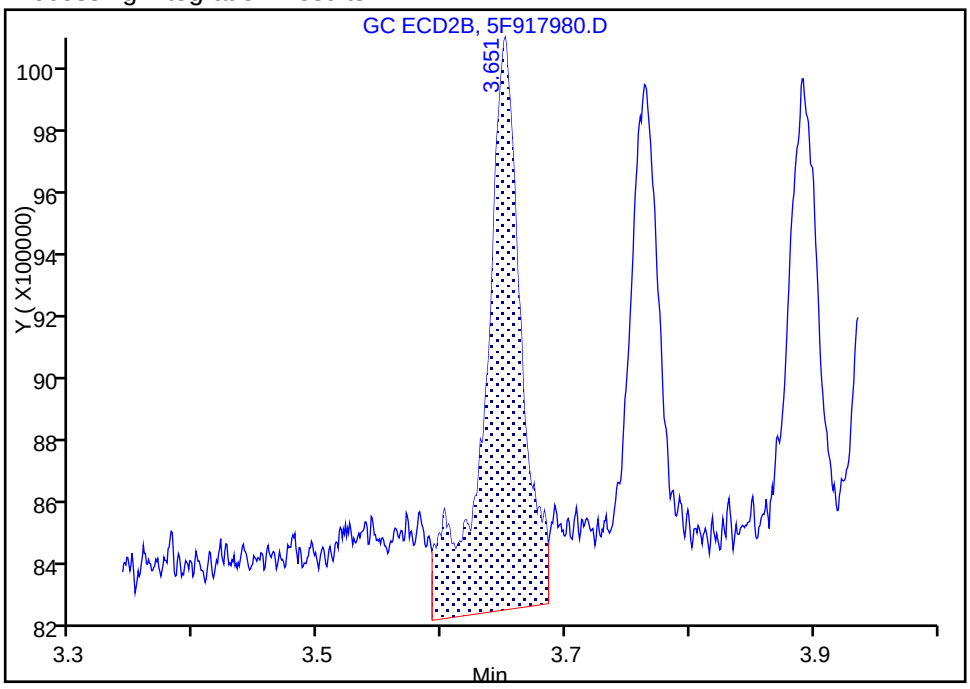
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

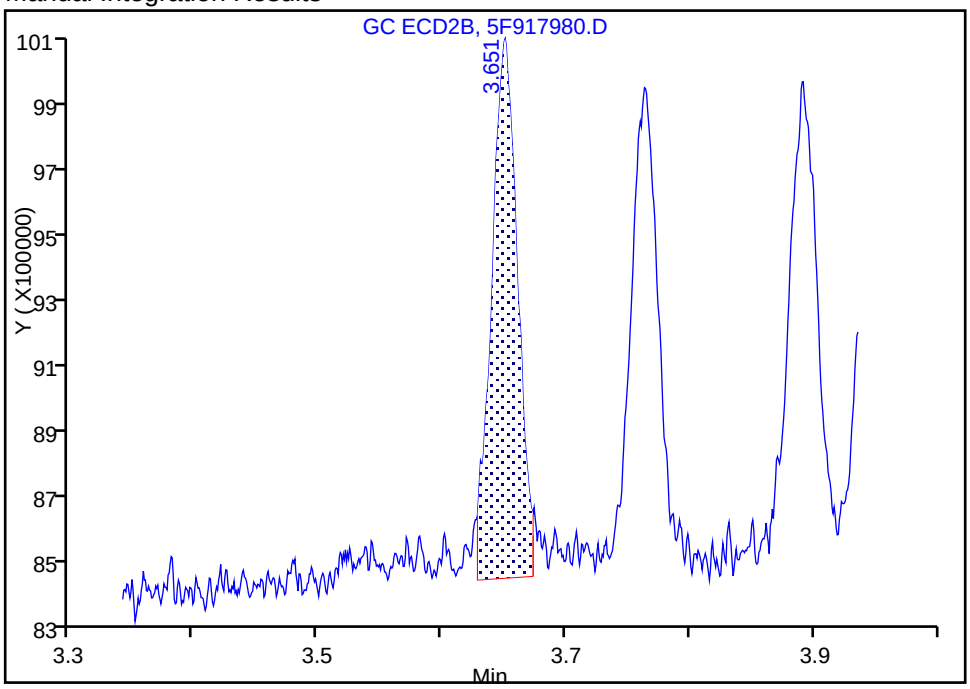
Processing Integration Results

RT: 3.65
Area: 3541951
Amount: 2.037614
Amount Units: ug/l



Manual Integration Results

RT: 3.65
Area: 2270365
Amount: 2.899460
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:38:29

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

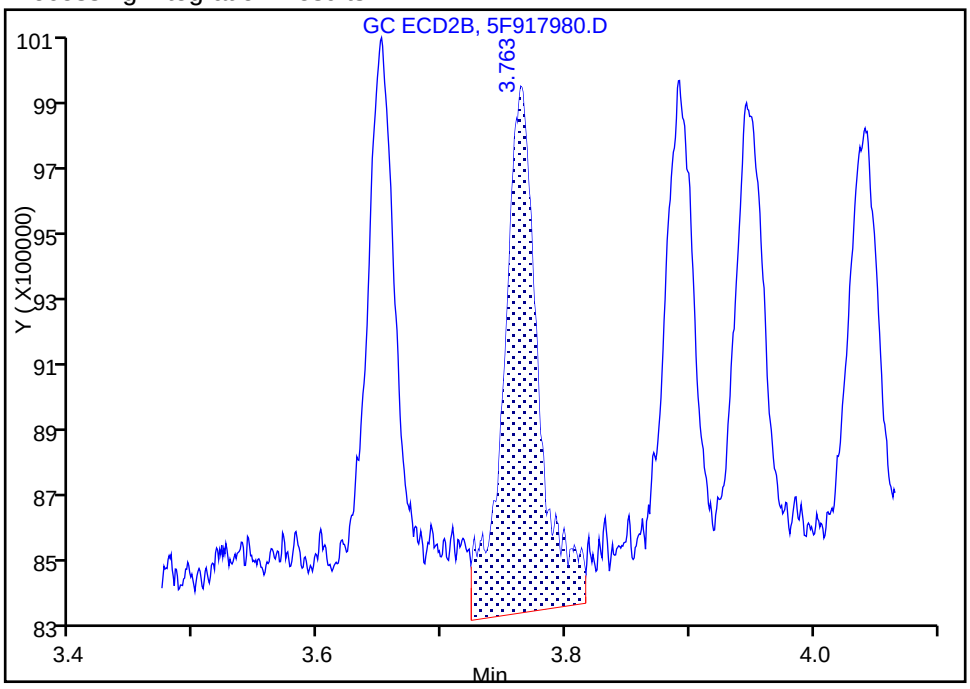
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

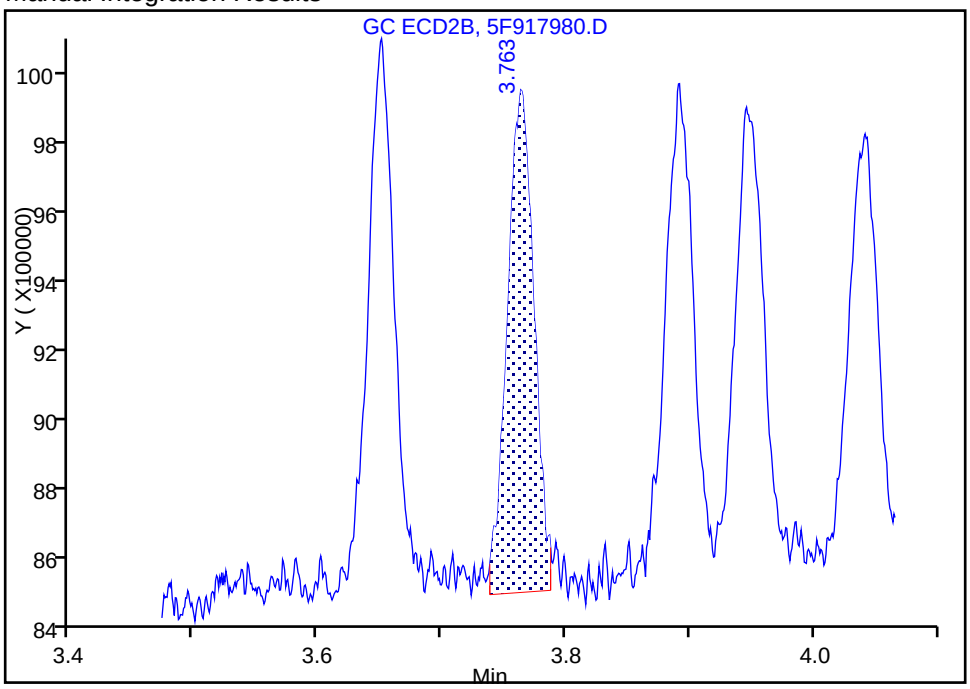
Processing Integration Results

RT: 3.76
Area: 2998309
Amount: 2.109943
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 2091692
Amount: 2.660333
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

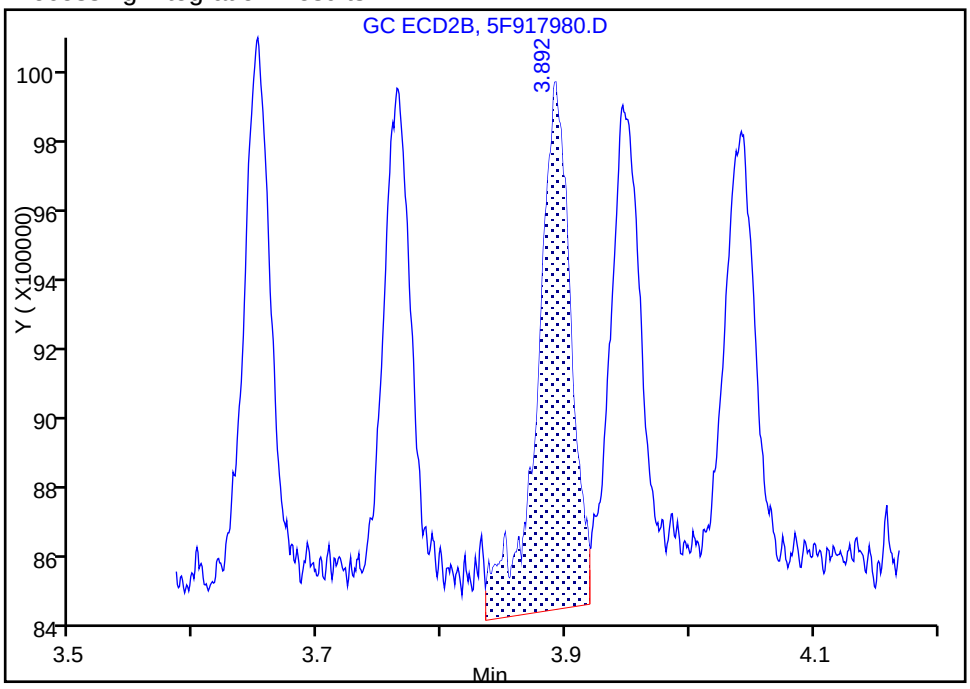
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

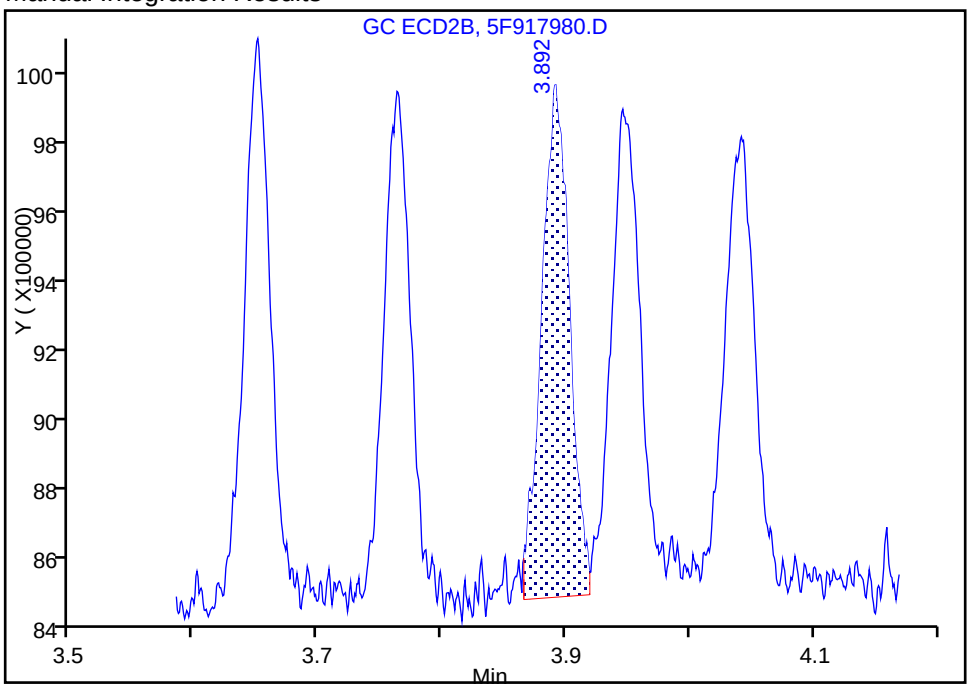
Processing Integration Results

RT: 3.89
Area: 2806960
Amount: 2.091854
Amount Units: ug/l



Manual Integration Results

RT: 3.89
Area: 2171979
Amount: 2.812692
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

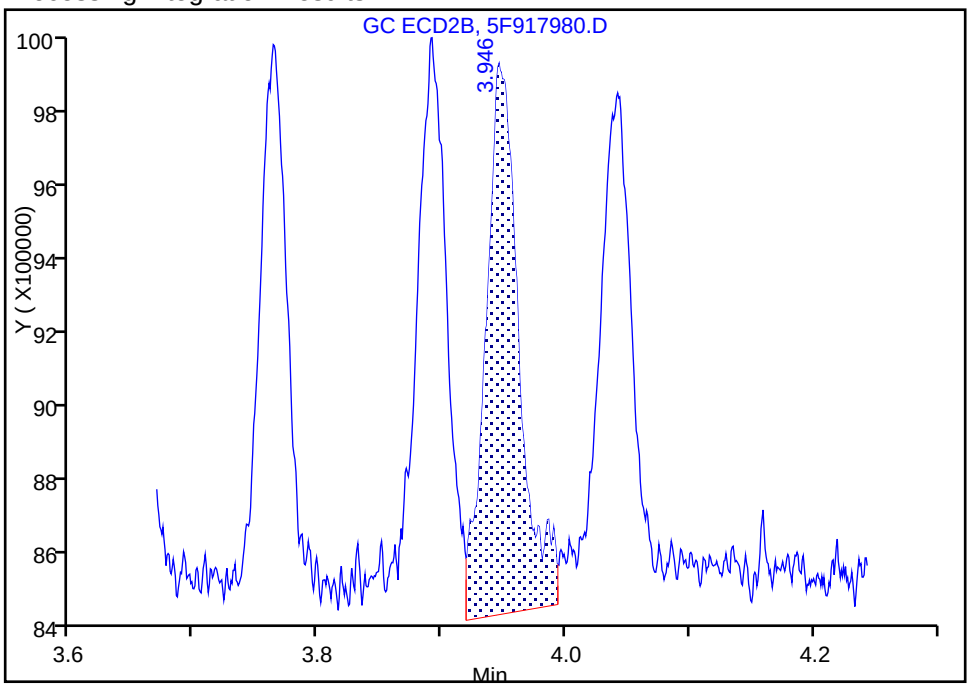
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

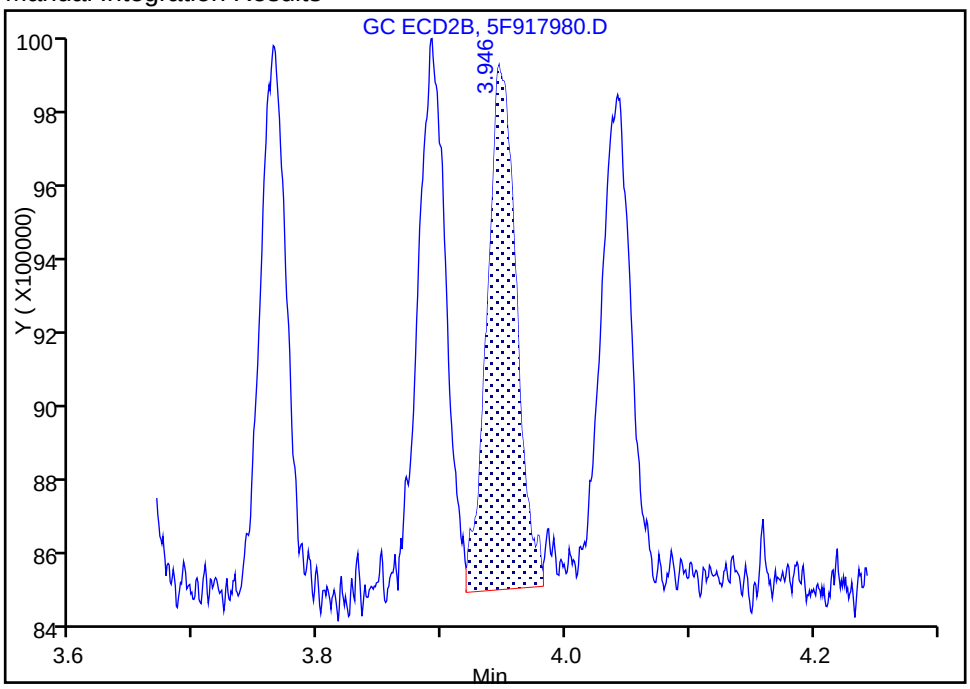
Processing Integration Results

RT: 3.95
Area: 2598787
Amount: 3.175572
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 2149603
Amount: 2.747330
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

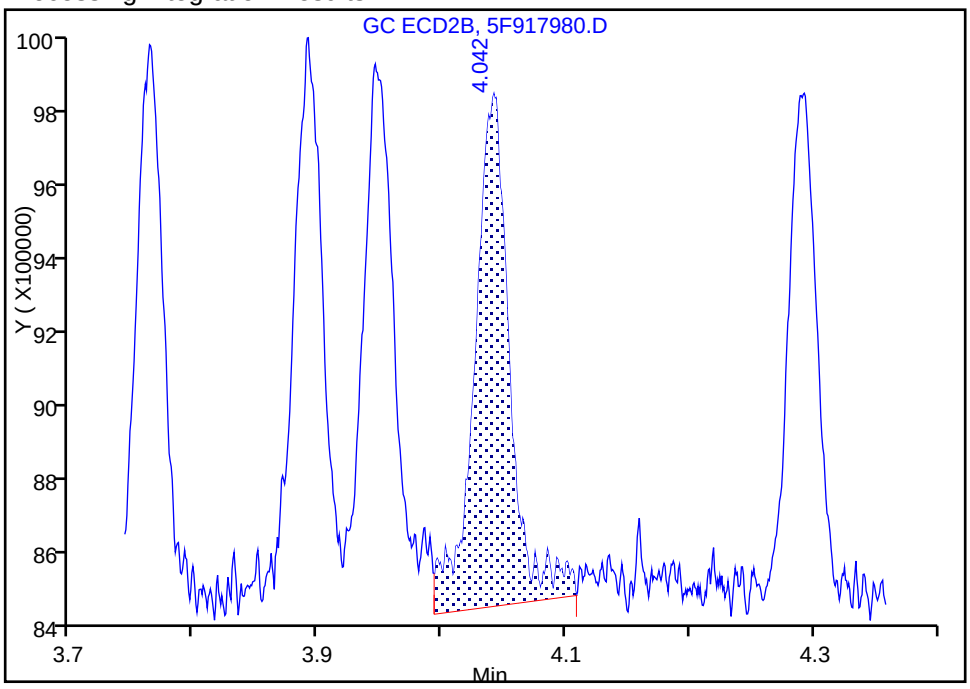
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

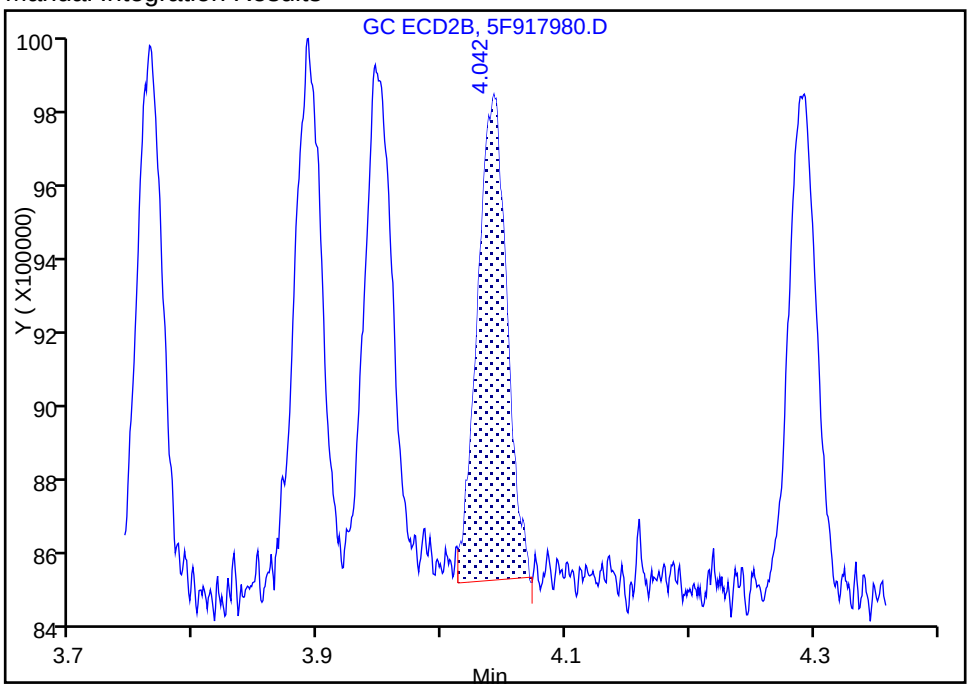
Processing Integration Results

RT: 4.04
Area: 2526493
Amount: 3.250135
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 1994342
Amount: 2.714210
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

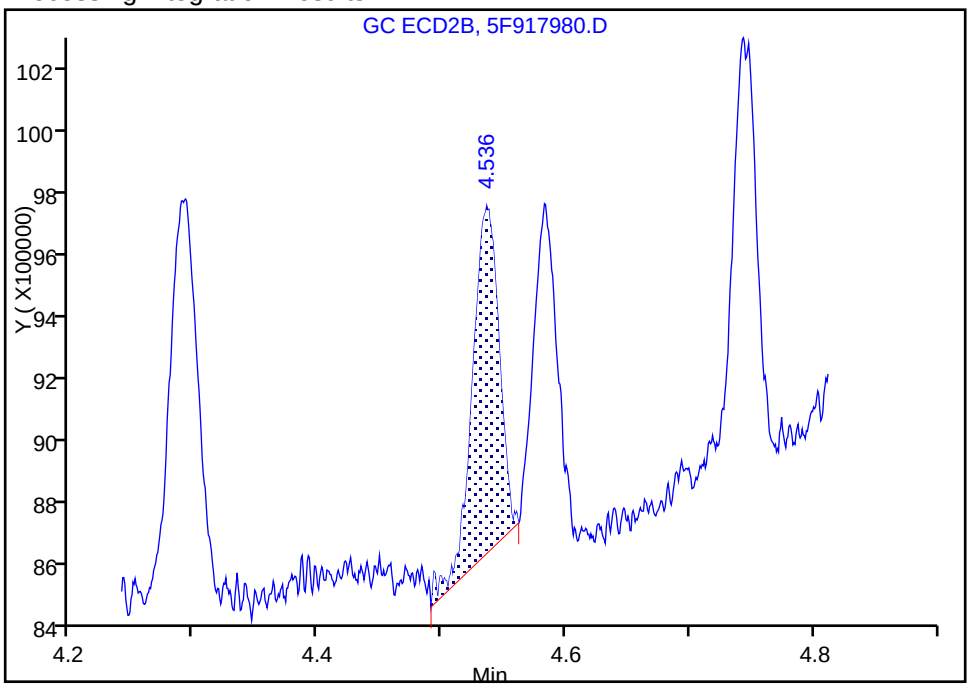
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

20 Endrin, CAS: 72-20-8

Signal: 2

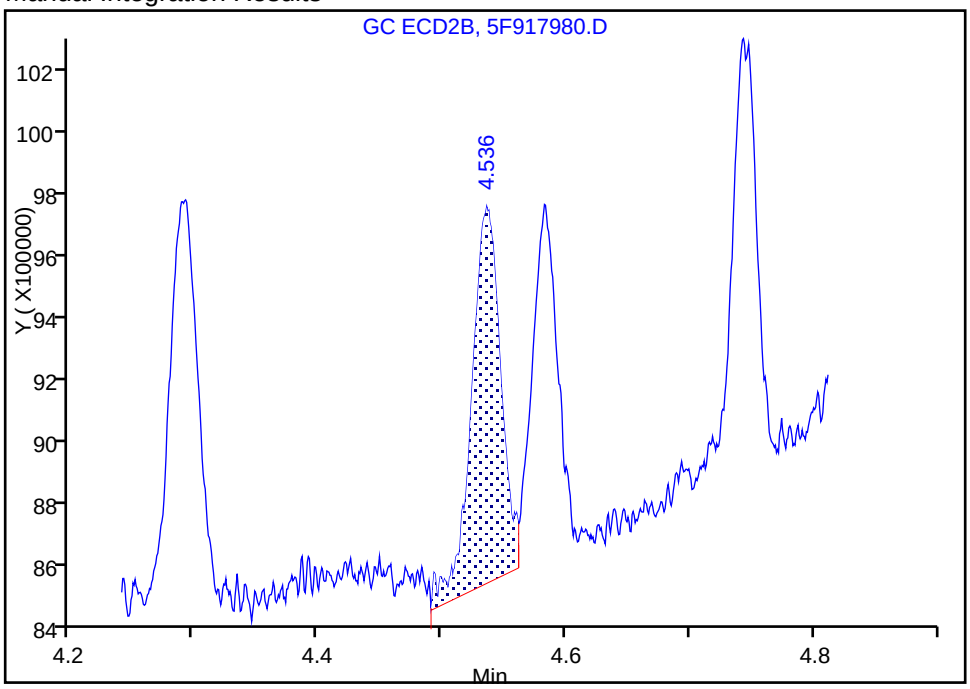
Processing Integration Results

RT: 4.54
Area: 1620708
Amount: 2.338961
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 1930076
Amount: 2.689374
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:57

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

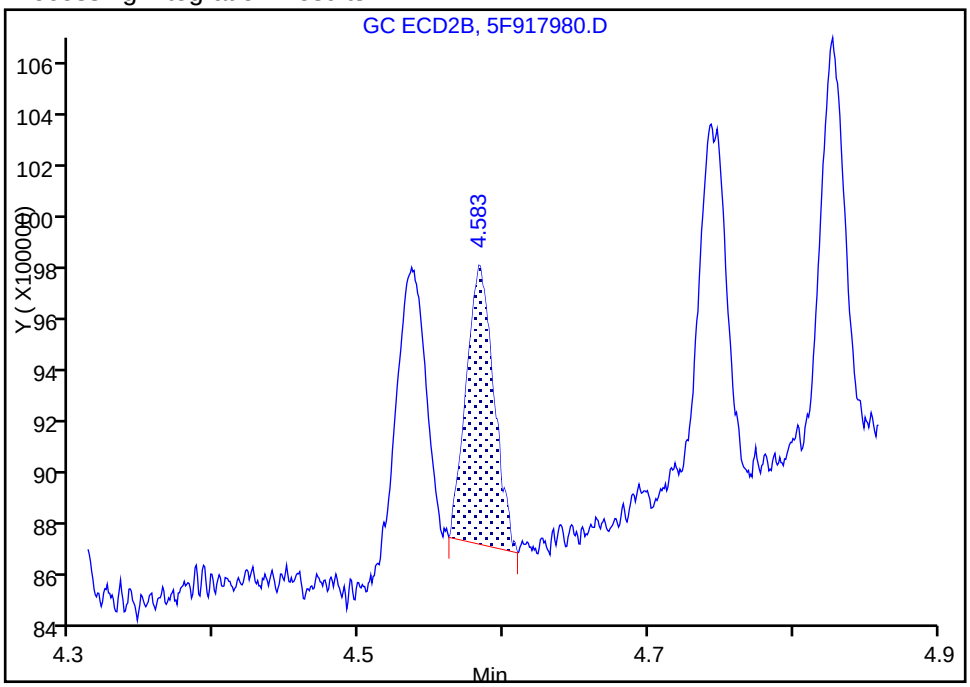
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D
Injection Date: 08-Feb-2018 15:07:59 Instrument ID: CPESTGC5
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

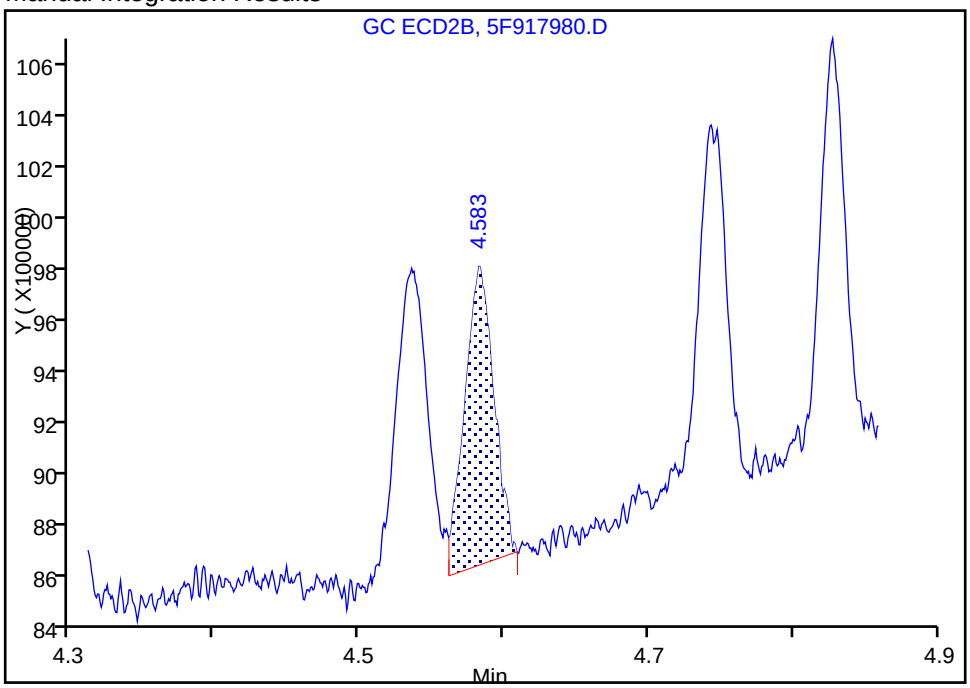
Processing Integration Results

RT: 4.58
Area: 1344164
Amount: 2.173662
Amount Units: ug/l



Manual Integration Results

RT: 4.58
Area: 1529930
Amount: 2.416004
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:34:57
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

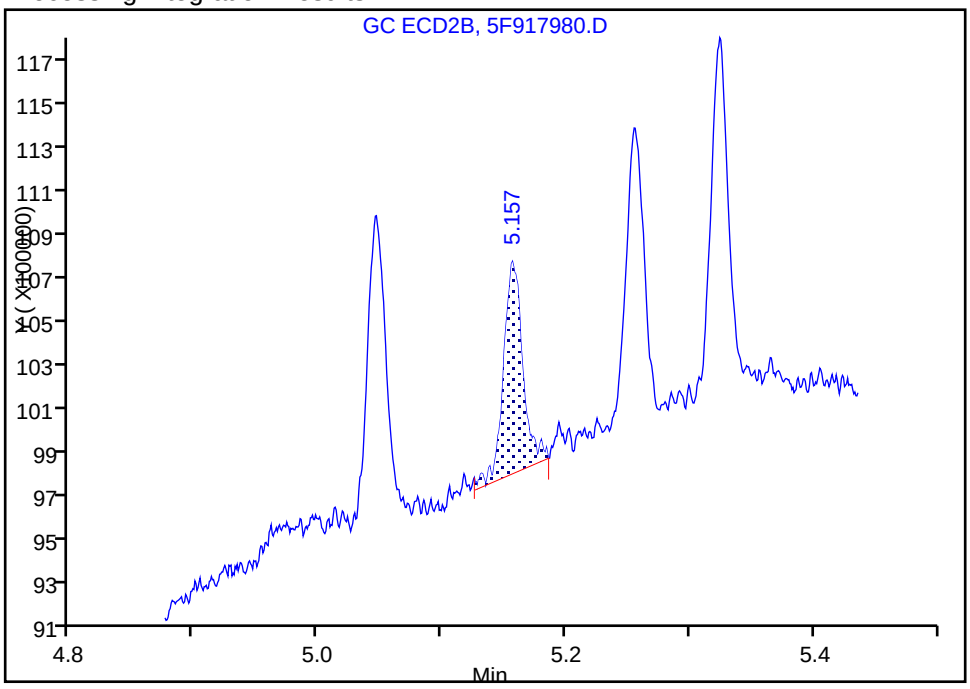
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

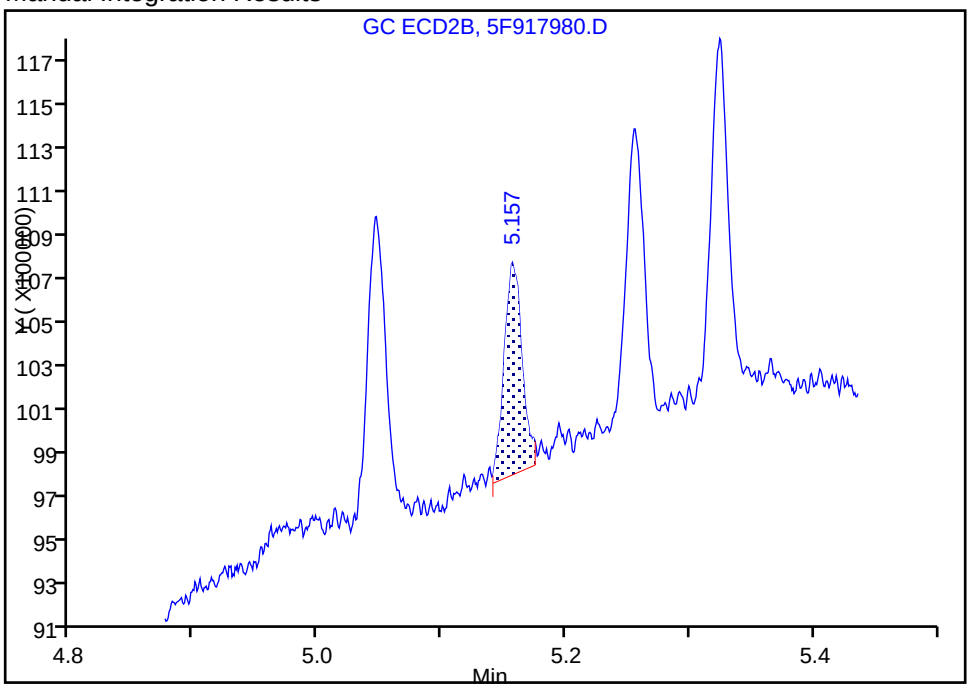
Processing Integration Results

RT: 5.16
Area: 997246
Amount: 2.804201
Amount Units: ug/l



Manual Integration Results

RT: 5.16
Area: 928275
Amount: 2.651396
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:42:25
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

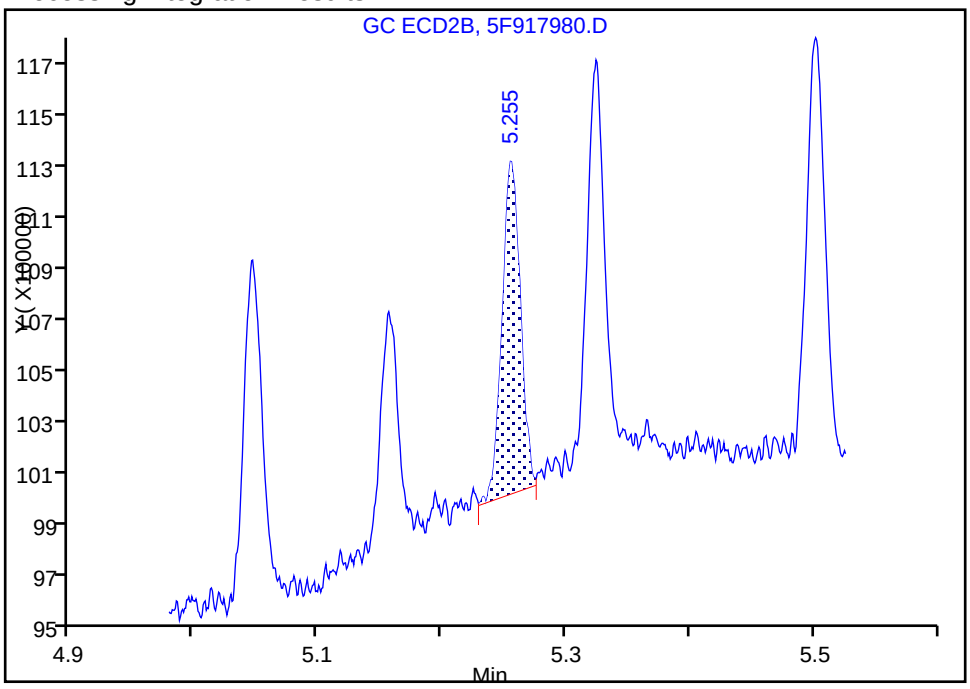
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917980.D				
Injection Date:	08-Feb-2018 15:07:59	Instrument ID:	CPESTGC5		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

34 Mirex, CAS: 2385-85-5

Signal: 2

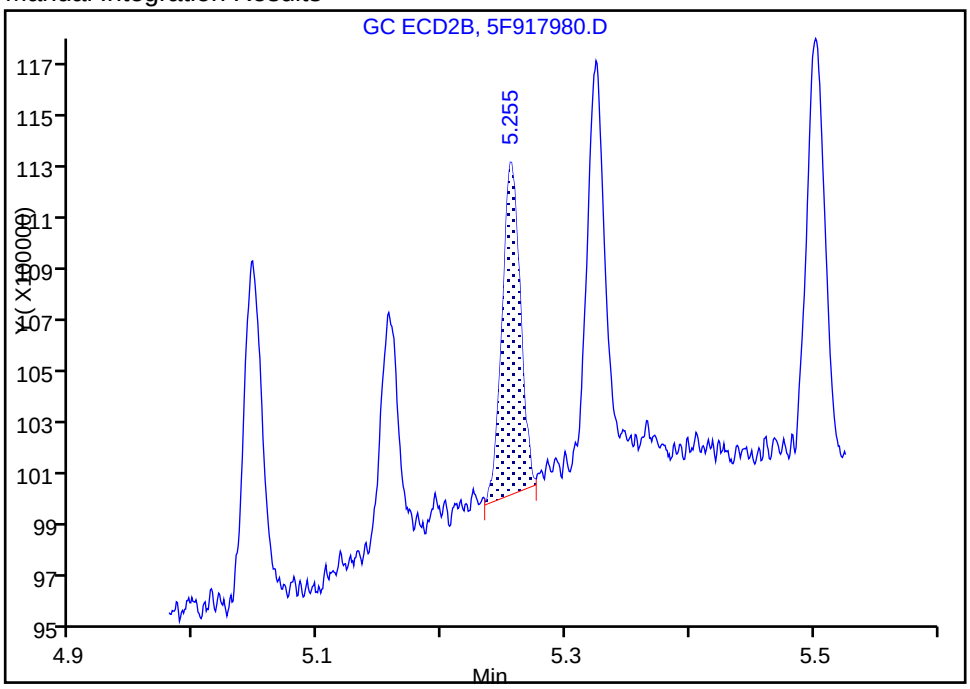
Processing Integration Results

RT: 5.26
Area: 1321467
Amount: 2.785334
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 1313873
Amount: 2.772878
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 07:42:38

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917981.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 15:20:49 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-004
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:37 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.676	1.679	-0.003	105292609	100.0	100.0	
2	1.693	1.696	-0.003	53431876	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.065	2.068	-0.003	57423550	50.0	51.5	
2	2.081	2.085	-0.004	28889437	50.0	52.2	
						RPD = 1.31	
15 alpha-BHC							
1	2.397	2.398	-0.001	92635475	50.0	50.5	
2	2.413	2.414	-0.001	44687349	50.0	51.7	
						RPD = 2.34	
2 gamma-BHC (Lindane)							
1	2.596	2.597	-0.001	87157589	50.0	50.6	
2	2.611	2.612	-0.001	42739911	50.0	52.3	
						RPD = 3.32	
6 beta-BHC							
1	2.643	2.644	-0.001	37977985	50.0	52.4	
2	2.657	2.657	0.000	19237887	50.0	53.1	
						RPD = 1.35	
32 delta-BHC							
1	2.767	2.768	-0.001	87238257	50.0	50.6	
2	2.782	2.782	0.000	42194450	50.0	49.9	
						RPD = 1.42	
18 Heptachlor							
1	2.916	2.918	-0.002	97112837	50.0	50.9	
2	2.931	2.932	-0.001	45367425	50.0	50.3	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.143	3.144	-0.001	88532114	50.0	51.2	
2	3.156	3.157	-0.001	41652278	50.0	49.8	
						RPD = 2.60	
12 Heptachlor epoxide							
1	3.642	3.644	-0.002	83838100	50.0	51.3	
2	3.655	3.656	-0.001	39930331	50.0	49.9	
						RPD = 2.72	
9 gamma-Chlordane							
1	3.756	3.757	-0.001	86290244	50.0	51.0	
2	3.767	3.769	-0.002	40324646	50.0	50.2	
						RPD = 1.49	
23 alpha-Chlordane							
1	3.884	3.886	-0.002	81984622	50.0	50.0	
2	3.896	3.897	-0.001	38994063	50.0	49.4	
						RPD = 1.24	
7 Endosulfan I							
1	3.941	3.943	-0.002	84217223	50.0	50.3	
2	4.044	4.046	-0.002	38072543	50.0	50.7	
						RPD = 0.91	
25 4,4'-DDE							
1	4.032	4.034	-0.002	81020912	50.0	51.5	
2	3.952	3.953	-0.001	38833972	50.0	48.6	
						RPD = 5.92	
30 Dieldrin							
1	4.285	4.287	-0.002	90268629	50.0	50.7	
2	4.296	4.297	-0.001	41502108	50.0	50.6	
						RPD = 0.10	
20 Endrin							
1	4.530	4.532	-0.002	75256214	50.0	51.0	
2	4.540	4.542	-0.002	35780490	50.0	48.8	
						RPD = 4.36	
16 4,4'-DDD							
1	4.578	4.579	-0.001	69058100	50.0	50.4	
2	4.586	4.587	-0.001	31997185	50.0	49.5	
						RPD = 1.94	
11 Endosulfan II							
1	4.741	4.742	-0.001	74879326	50.0	50.4	
2	4.747	4.749	-0.002	34512288	50.0	50.1	
						RPD = 0.71	
21 4,4'-DDT							
1	4.825	4.826	-0.001	78698836	50.0	50.2	
2	4.831	4.832	-0.001	34475913	50.0	48.9	
						RPD = 2.48	
5 Endrin aldehyde							
1	5.045	5.046	-0.001	60791424	50.0	49.5	
2	5.049	5.050	-0.001	26707784	50.0	49.9	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.156	5.157	-0.001	43472758	50.0	51.3	
2	5.326	5.327	-0.001	30890207	50.0	51.6	
						RPD = 0.59	
10 Methoxychlor							
1	5.254	5.255	-0.001	56453731	50.0	48.9	
2	5.159	5.160	-0.001	18598612	50.0	52.0	
						RPD = 6.05	
34 Mirex							
1	5.325	5.325	0.000	72696378	50.0	51.9	
2	5.258	5.258	0.000	24342834	50.0	50.3	
						RPD = 3.25	
13 Endrin ketone							
1	5.503	5.504	-0.001	83983953	50.0	50.0	
2	5.504	5.505	-0.001	34806501	50.0	50.8	
						RPD = 1.55	
$ 24 DCB Decachlorobiphenyl							
1	6.316	6.320	-0.004	72524853	50.0	52.9	
2	6.313	6.317	-0.004	31129308	50.0	52.8	
						RPD = 0.13	

Reagents:

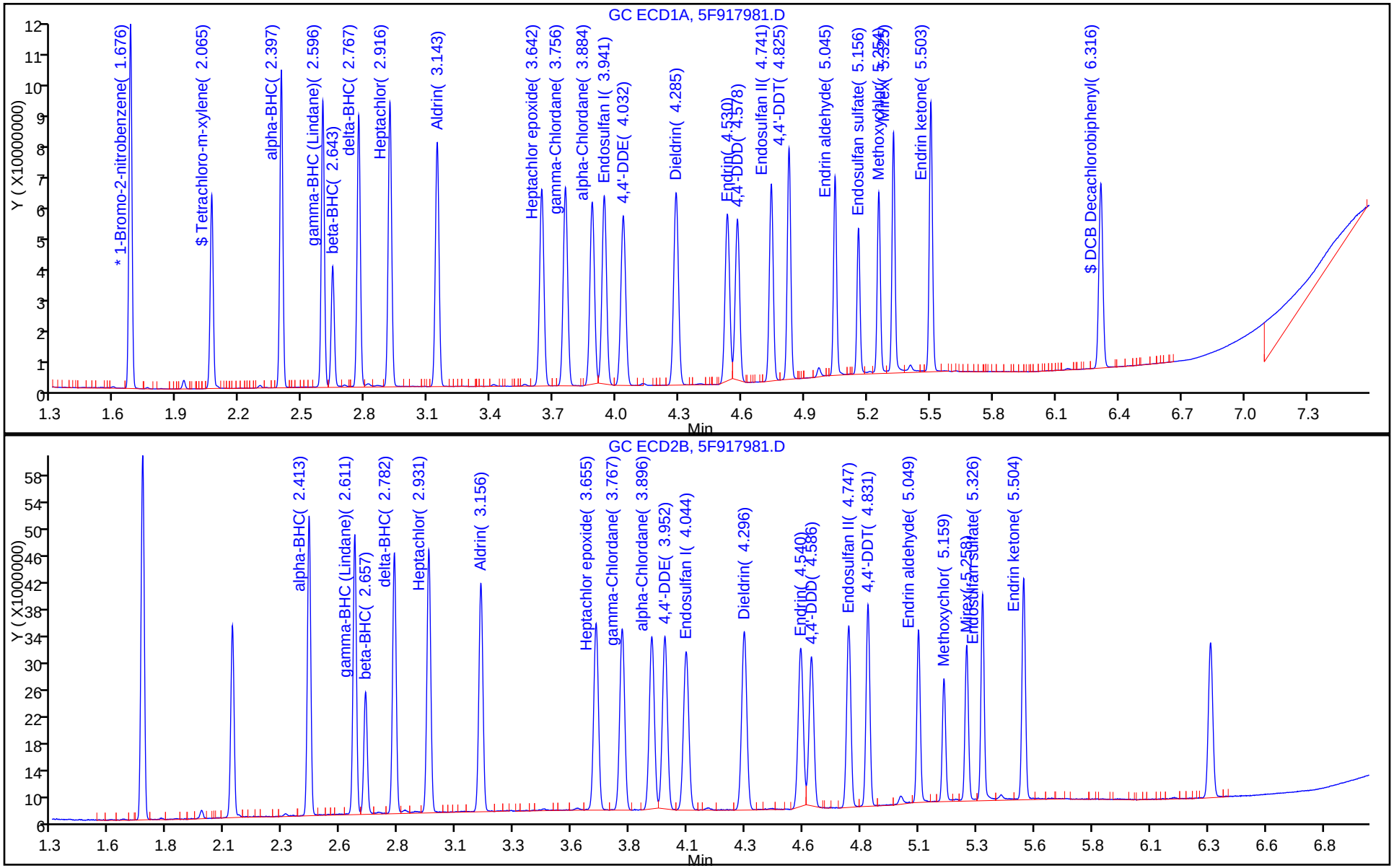
SGPESTL2_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917981.D

Injection Date:	08-Feb-2018 15:20:49	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917982.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 15:33:39 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-005
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:43 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:49:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.677	1.677	0.000	106430102	100.0	100.0	
2	1.693	1.693	0.000	51235598	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.065	2.065	0.000	123215733	100.0	106.3	
2	2.082	2.082	0.000	57065272	100.0	105.4	
						RPD = 0.85	
15 alpha-BHC							
1	2.398	2.398	0.000	197984634	100.0	106.7	
2	2.414	2.414	0.000	88749214	100.0	107.0	
						RPD = 0.28	
2 gamma-BHC (Lindane)							
1	2.597	2.597	0.000	185047465	100.0	106.3	
2	2.612	2.612	0.000	84852836	100.0	108.3	
						RPD = 1.88	
6 beta-BHC							
1	2.644	2.644	0.000	76985513	100.0	105.0	
2	2.657	2.657	0.000	36860082	100.0	106.1	
						RPD = 0.98	
32 delta-BHC							
1	2.768	2.768	0.000	185880344	100.0	106.7	
2	2.782	2.782	0.000	87379985	100.0	107.8	
						RPD = 1.01	
18 Heptachlor							
1	2.918	2.918	0.000	204717547	100.0	106.2	
2	2.932	2.932	0.000	93027957	100.0	107.6	
						RPD = 1.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.144	3.144	0.000	186937697	100.0	106.9	
2	3.157	3.157	0.000	87533726	100.0	109.2	
						RPD = 2.19	
12 Heptachlor epoxide							
1	3.644	3.644	0.000	174135650	100.0	105.4	
2	3.656	3.656	0.000	83400865	100.0	108.7	
						RPD = 3.11	
9 gamma-Chlordane							M
1	3.757	3.757	0.000	180573656	100.0	105.5	M
2	3.769	3.769	0.000	85495730	100.0	111.0	
						RPD = 5.09	
23 alpha-Chlordane							
1	3.886	3.886	0.000	173971562	100.0	105.1	
2	3.897	3.897	0.000	82686394	100.0	109.3	
						RPD = 3.96	
7 Endosulfan I							
1	3.943	3.943	0.000	180343228	100.0	106.5	
2	4.046	4.046	0.000	79499094	100.0	110.4	
						RPD = 3.66	
25 4,4'-DDE							
1	4.034	4.034	0.000	167454701	100.0	105.4	
2	3.953	3.953	0.000	84021883	100.0	109.6	
						RPD = 3.93	
30 Dieldrin							
1	4.287	4.287	0.000	189356636	100.0	105.1	
2	4.297	4.297	0.000	88904684	100.0	113.0	
						RPD = 7.26	
20 Endrin							
1	4.532	4.532	0.000	163248614	100.0	109.4	
2	4.542	4.542	0.000	77972026	100.0	110.9	
						RPD = 1.37	
16 4,4'-DDD							
1	4.579	4.579	0.000	152018212	100.0	109.8	
2	4.587	4.587	0.000	69982994	100.0	112.8	
						RPD = 2.68	
11 Endosulfan II							
1	4.742	4.742	0.000	157218083	100.0	104.8	
2	4.749	4.749	0.000	72333305	100.0	109.5	
						RPD = 4.38	
21 4,4'-DDT							
1	4.826	4.826	0.000	168695177	100.0	106.4	
2	4.832	4.832	0.000	73440122	100.0	108.7	
						RPD = 2.16	
5 Endrin aldehyde							
1	5.046	5.046	0.000	131641675	100.0	106.1	
2	5.050	5.050	0.000	56405724	100.0	110.0	
						RPD = 3.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.157	5.157	0.000	91986117	100.0	107.4	
2	5.327	5.327	0.000	63535053	100.0	110.7	
						RPD = 3.03	
10 Methoxychlor							
1	5.255	5.255	0.000	118321248	100.0	101.5	
2	5.160	5.160	0.000	38835157	100.0	113.2	
						RPD = 10.94	
34 Mirex							
1	5.325	5.325	0.000	151526775	100.0	107.1	
2	5.258	5.258	0.000	49790136	100.0	107.3	
						RPD = 0.14	
13 Endrin ketone							
1	5.504	5.504	0.000	177303224	100.0	104.5	
2	5.505	5.505	0.000	71586251	100.0	109.0	
						RPD = 4.21	
$ 24 DCB Decachlorobiphenyl							
1	6.317	6.317	0.000	152519713	100.0	106.6	
2	6.314	6.314	0.000	63302116	100.0	108.5	
						RPD = 1.80	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

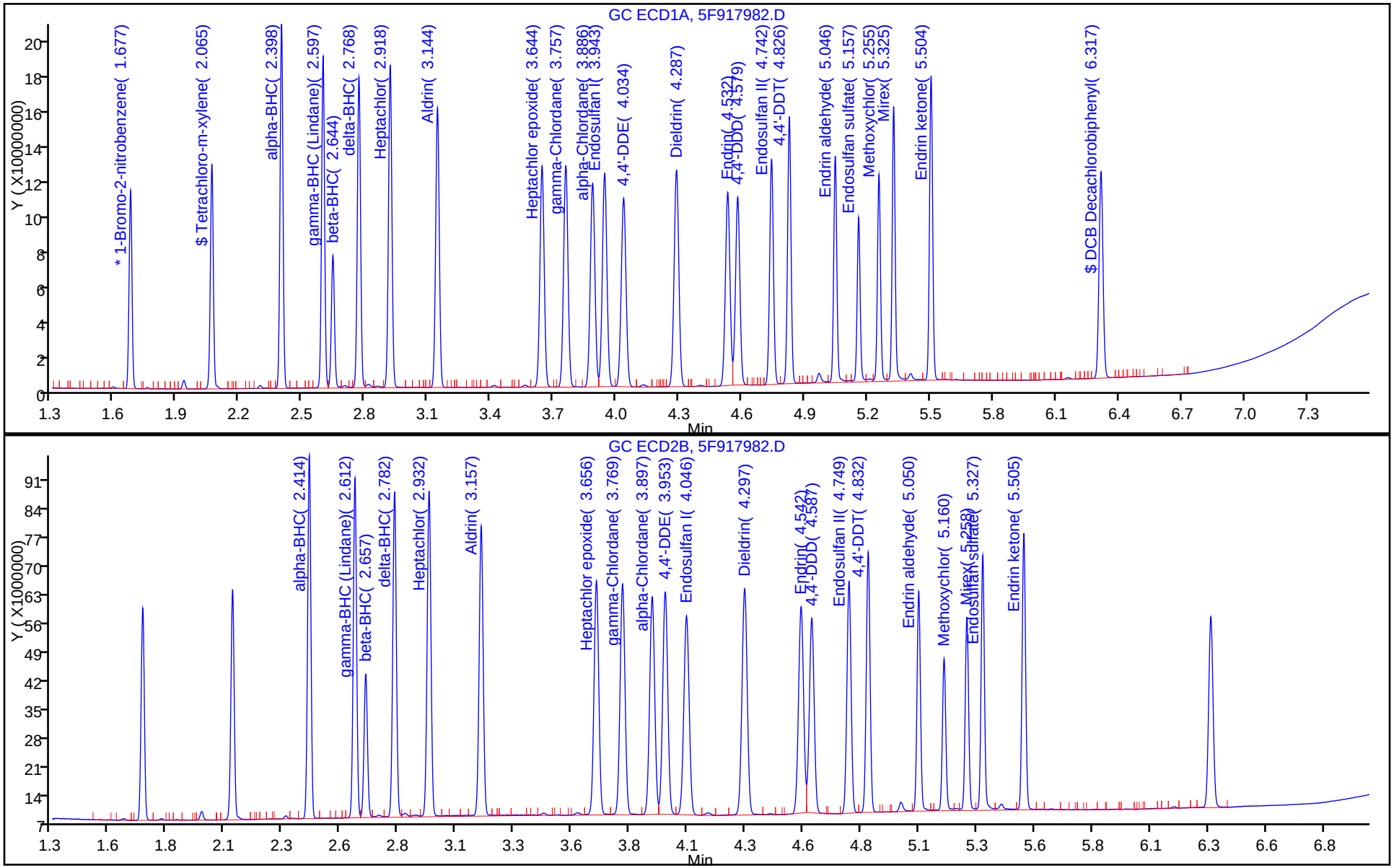
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:45 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917982.D

Injection Date:	08-Feb-2018 15:33:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917983.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 15:46:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-006
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:51 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:15:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.676	1.677	-0.001	105552287	100.0	100.0	
2	1.693	1.693	0.000	52090791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.064	2.065	-0.001	175902150	150.0	152.9	
2	2.081	2.082	-0.001	81573406	150.0	148.1	
						RPD = 3.20	
15 alpha-BHC							
1	2.398	2.398	0.000	430904286	250.0	234.3	
2	2.414	2.414	0.000	197633595	250.0	234.5	
						RPD = 0.08	
2 gamma-BHC (Lindane)							
1	2.596	2.597	-0.001	398412998	250.0	230.8	
2	2.611	2.612	-0.001	186395339	250.0	234.0	
						RPD = 1.40	
6 beta-BHC							
1	2.644	2.644	0.000	159249214	250.0	219.1	
2	2.657	2.657	0.000	77723192	250.0	220.0	
						RPD = 0.41	
32 delta-BHC							
1	2.768	2.768	0.000	399132616	250.0	231.1	
2	2.783	2.782	0.001	189014569	250.0	229.4	
						RPD = 0.74	
18 Heptachlor							
1	2.918	2.918	0.000	429151800	250.0	224.5	
2	2.932	2.932	0.000	196010377	250.0	223.1	
						RPD = 0.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.144	3.144	0.000	394976058	250.0	227.7	M
2	3.157	3.157	0.000	182289750	250.0	223.7	
						RPD = 1.74	
12 Heptachlor epoxide							
1	3.644	3.644	0.000	368362600	250.0	224.8	
2	3.655	3.656	-0.001	171452059	250.0	219.8	
						RPD = 2.23	
9 gamma-Chlordane							
1	3.757	3.757	0.000	386424183	250.0	227.6	
2	3.769	3.769	0.000	177366152	250.0	226.5	
						RPD = 0.50	
23 alpha-Chlordane							
1	3.885	3.886	-0.001	371872985	250.0	226.4	
2	3.897	3.897	0.000	172195854	250.0	223.9	
						RPD = 1.13	
7 Endosulfan I							
1	3.942	3.943	-0.001	389286819	250.0	231.7	
2	4.044	4.046	-0.002	164724791	250.0	225.1	
						RPD = 2.91	
25 4,4'-DDE							
1	4.033	4.034	-0.001	356029612	250.0	225.9	
2	3.953	3.953	0.000	177638671	250.0	227.9	
						RPD = 0.88	
30 Dieldrin							
1	4.286	4.287	-0.001	405771901	250.0	227.1	
2	4.296	4.297	-0.001	185051602	250.0	231.4	
						RPD = 1.87	
20 Endrin							
1	4.531	4.532	-0.001	349985356	250.0	236.5	
2	4.540	4.542	-0.002	164573310	250.0	230.2	
						RPD = 2.68	
16 4,4'-DDD							
1	4.579	4.579	0.000	329403768	250.0	239.9	
2	4.587	4.587	0.000	150516308	250.0	238.6	
						RPD = 0.55	
11 Endosulfan II							
1	4.741	4.742	-0.001	334963717	250.0	225.1	
2	4.748	4.749	-0.001	151418152	250.0	225.4	
						RPD = 0.13	
21 4,4'-DDT							
1	4.825	4.826	-0.001	364667000	250.0	231.9	
2	4.831	4.832	-0.001	156373270	250.0	227.7	
						RPD = 1.83	
5 Endrin aldehyde							
1	5.045	5.046	-0.001	275763649	250.0	224.1	
2	5.049	5.050	-0.001	118598050	250.0	227.4	
						RPD = 1.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.157	5.157	0.000	188574620	250.0	221.9	
2	5.327	5.327	0.000	129905520	250.0	222.6	
						RPD = 0.28	
10 Methoxychlor							
1	5.254	5.255	-0.001	265232595	250.0	229.4	
2	5.159	5.160	-0.001	78487083	250.0	225.1	
						RPD = 1.89	
34 Mirex							
1	5.324	5.325	-0.001	314841411	250.0	224.4	
2	5.258	5.258	0.000	108314020	250.0	229.5	
						RPD = 2.24	
13 Endrin ketone							
1	5.504	5.504	0.000	377032577	250.0	224.1	
2	5.504	5.505	-0.001	150178372	250.0	224.9	
						RPD = 0.37	
$ 24 DCB Decachlorobiphenyl							
1	6.316	6.317	-0.001	211605263	150.0	149.1	
2	6.313	6.314	-0.001	86601460	150.0	146.0	
						RPD = 2.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

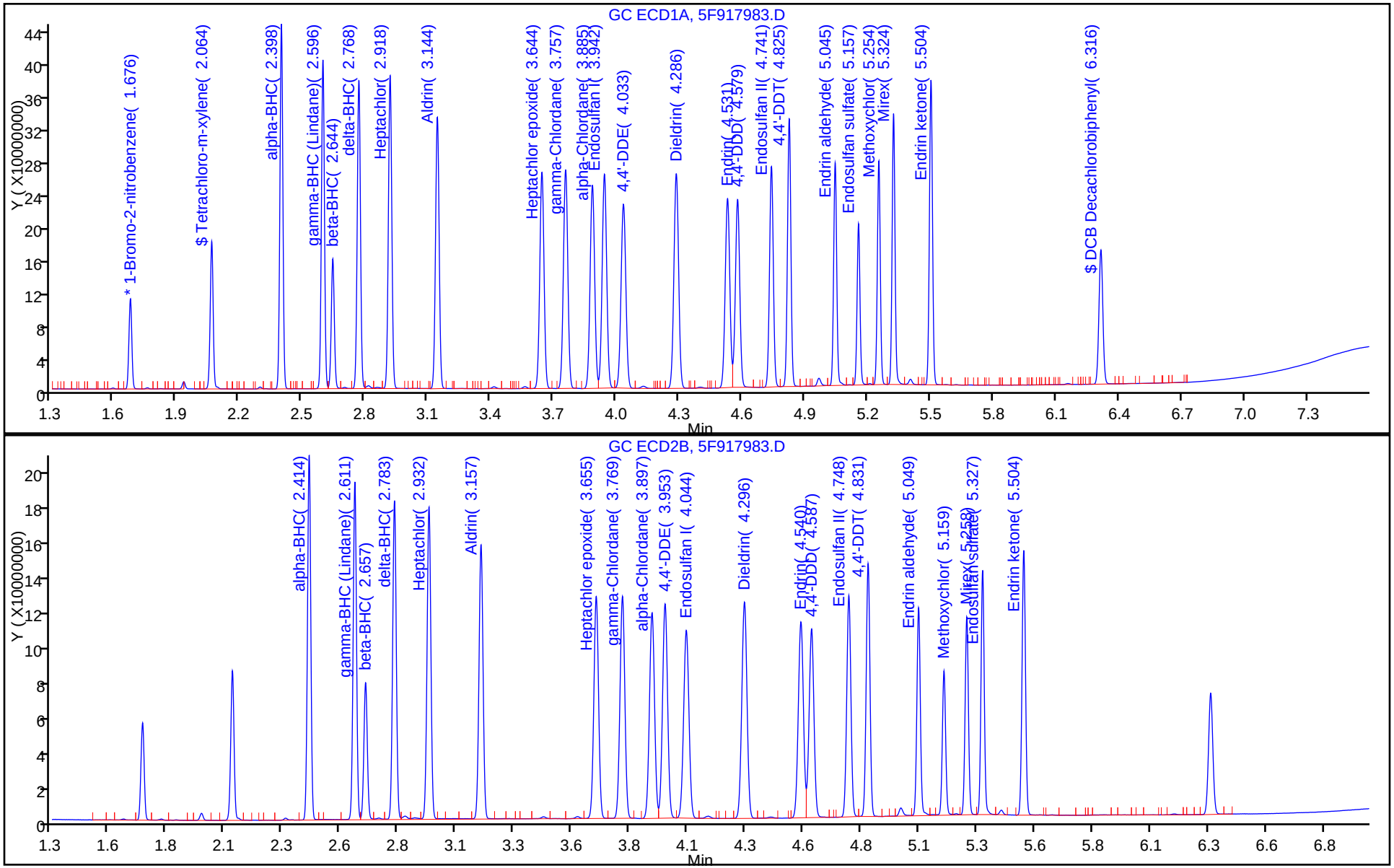
SGPESTL4_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:03:52 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917983.D

Injection Date:	08-Feb-2018 15:46:31	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917984.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 15:59:23 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-007
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.677	0.002	106814795	100.0	100.0	
2	1.695	1.693	0.002	53935995	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.067	2.065	0.002	235220759	200.0	202.1	
2	2.084	2.082	0.002	113029379	200.0	198.2	
						RPD = 1.94	
15 alpha-BHC							
1	2.401	2.398	0.003	923570686	500.0	496.2	
2	2.416	2.414	0.002	419564284	500.0	480.7	
						RPD = 3.17	
2 gamma-BHC (Lindane)							
1	2.600	2.597	0.003	849025791	500.0	486.0	
2	2.614	2.612	0.002	390723065	500.0	473.8	
						RPD = 2.54	
6 beta-BHC							
1	2.646	2.644	0.002	331155303	500.0	450.2	
2	2.660	2.657	0.003	159913874	500.0	437.1	
						RPD = 2.94	
32 delta-BHC							
1	2.771	2.768	0.003	856129999	500.0	489.9	
2	2.785	2.782	0.003	396774899	500.0	465.1	
						RPD = 5.19	
18 Heptachlor							
1	2.920	2.918	0.002	912896898	500.0	472.0	
2	2.935	2.932	0.003	406646858	500.0	446.9	
						RPD = 5.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.146	3.144	0.002	850031062	500.0	484.2	
2	3.160	3.157	0.003	380140598	500.0	450.6	
						RPD = 7.18	
12 Heptachlor epoxide							
1	3.646	3.644	0.002	769219581	500.0	463.9	
2	3.659	3.656	0.003	353459395	500.0	437.7	
						RPD = 5.81	
9 gamma-Chlordane							
1	3.760	3.757	0.003	822451651	500.0	478.7	
2	3.772	3.769	0.003	371365252	500.0	458.0	
						RPD = 4.43	
23 alpha-Chlordane							
1	3.888	3.886	0.002	783747548	500.0	471.6	
2	3.900	3.897	0.003	357517858	500.0	448.9	
						RPD = 4.92	
7 Endosulfan I							
1	3.945	3.943	0.002	824763411	500.0	485.2	
2	4.049	4.046	0.003	339207089	500.0	447.6	
						RPD = 8.05	
25 4,4'-DDE							
1	4.036	4.034	0.002	737291084	500.0	462.4	
2	3.957	3.953	0.004	371815839	500.0	460.8	
						RPD = 0.34	
30 Dieldrin							
1	4.290	4.287	0.003	846046313	500.0	468.0	
2	4.300	4.297	0.003	383832119	500.0	463.6	
						RPD = 0.94	
20 Endrin							
1	4.535	4.532	0.003	728745533	500.0	486.6	
2	4.545	4.542	0.003	339835377	500.0	459.2	
						RPD = 5.80	
16 4,4'-DDD							
1	4.582	4.579	0.003	699583482	500.0	503.6	
2	4.590	4.587	0.003	314065740	500.0	480.9	
						RPD = 4.60	
11 Endosulfan II							
1	4.743	4.742	0.001	696737363	500.0	462.7	
2	4.750	4.749	0.001	309097864	500.0	444.4	
						RPD = 4.03	
21 4,4'-DDT							
1	4.828	4.826	0.002	775918921	500.0	487.7	
2	4.834	4.832	0.002	325761024	500.0	458.2	
						RPD = 6.24	
5 Endrin aldehyde							
1	5.047	5.046	0.001	575136177	500.0	461.8	
2	5.051	5.050	0.001	238603904	500.0	441.9	
						RPD = 4.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.159	5.157	0.002	392630249	500.0	456.6	
2	5.329	5.327	0.002	265325529	500.0	439.0	
						RPD = 3.93	
10 Methoxychlor							
1	5.256	5.255	0.001	553507804	500.0	473.0	
2	5.161	5.160	0.001	156515344	500.0	433.5	
						RPD = 8.72	
34 Mirex							
1	5.326	5.325	0.001	657412086	500.0	463.1	
2	5.260	5.258	0.002	218555302	500.0	447.3	
						RPD = 3.47	
13 Endrin ketone							
1	5.505	5.504	0.001	792565321	500.0	465.4	
2	5.506	5.505	0.001	303969373	500.0	439.6	
						RPD = 5.70	
$ 24 DCB Decachlorobiphenyl							
1	6.318	6.317	0.001	286145088	200.0	199.2	
2	6.315	6.314	0.001	115107801	200.0	187.4	
						RPD = 6.10	

Reagents:

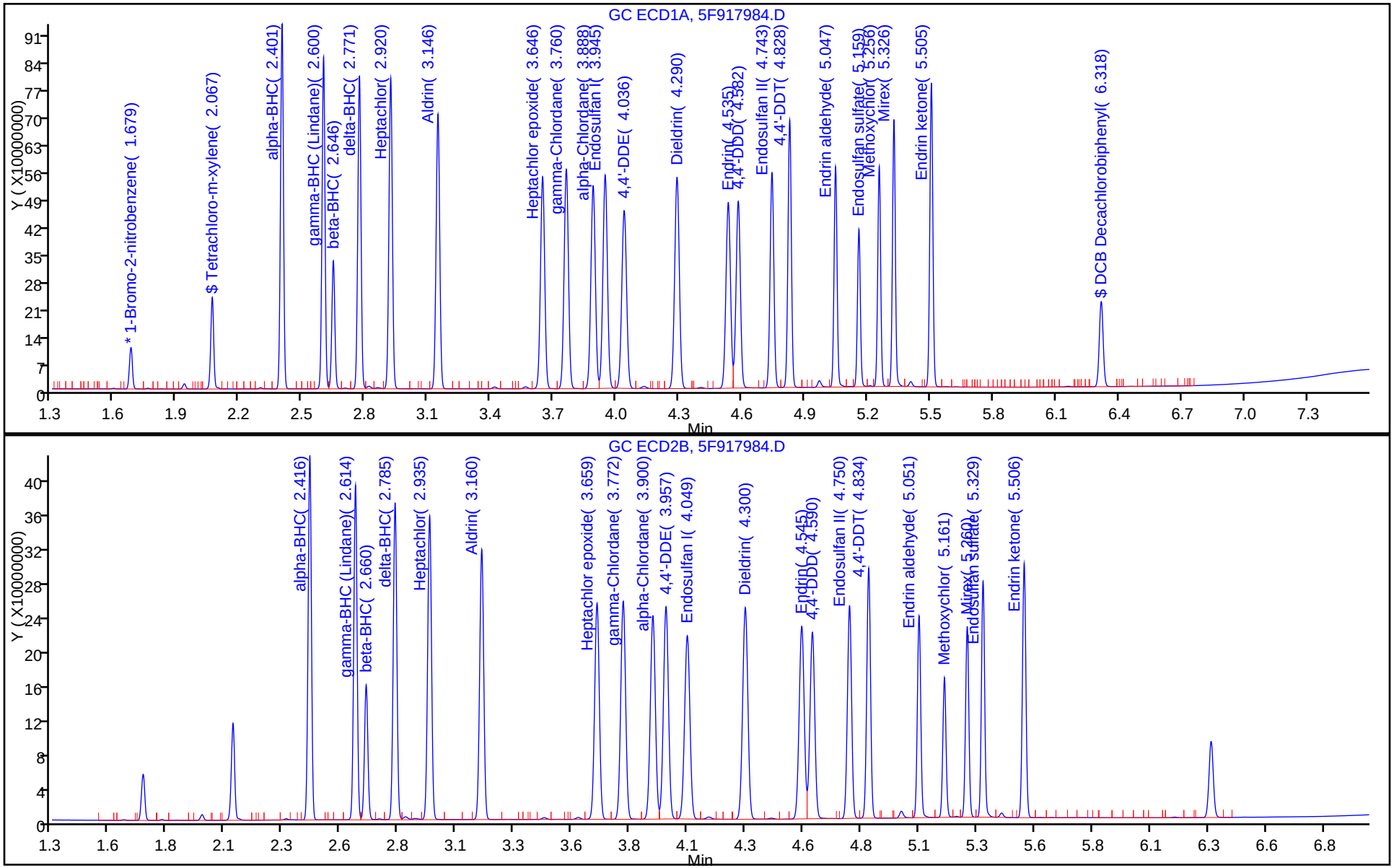
SGPESTL5_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:00 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917984.D

Injection Date:	08-Feb-2018 15:59:23	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:38 Calibration End Date: 02/08/2018 17:29 Calibration ID: 66478

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/10	5F917987.D
Level 2	IC 460-495906/11	5F917988.D
Level 3	IC 460-495906/12	5F917989.D
Level 4	IC 460-495906/13	5F917990.D
Level 5	IC 460-495906/14	5F917991.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0435	0.0403	0.0370	0.0410	0.0427	Ave		0.0409				6.2		20.0			
Chlordane (technical) Peak 2	0.0484	0.0467	0.0426	0.0484	0.0498	Ave		0.0472				5.9		20.0			
Chlordane (technical) Peak 3	0.0342	0.0338	0.0327	0.0393	0.0411	Ave		0.0362				10.3		20.0			
Chlordane (technical) Peak 4	0.1774	0.1675	0.1587	0.1829	0.1941	Ave		0.1761				7.8		20.0			
Chlordane (technical) Peak 5	0.3101	0.2913	0.2787	0.3165	0.3354	Ave		0.3064				7.2		20.0			
Tetrachloro-m-xylene			1.0059			Ave		1.0592				5.5		20.0			
DCB Decachlorobiphenyl			1.2190			Ave		1.3018				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:38 Calibration End Date: 02/08/2018 17:29 Calibration ID: 66478

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/10	5F917987.D
Level 2	IC 460-495906/11	5F917988.D
Level 3	IC 460-495906/12	5F917989.D
Level 4	IC 460-495906/13	5F917990.D
Level 5	IC 460-495906/14	5F917991.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	2272202	21862141	39826140	63940426	111856849	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	2529804	25338244	45926342	75522308	130285457	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	1787647	18338436	35220687	61285344	107657154	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	9265815	90848252	171069199	285535513	508115039	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	16203841	158034525	300383740	494010141	878011446	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave			108412788					100		
DCB Decachlorobiphenyl	BNB	Ave			131373690					100		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917987.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 16:38:01 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-010
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:18 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:16:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.677	0.008	104491230	100.0	100.0	
2	1.702	1.693	0.009	53031510	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	2.872	2.865	0.007	2272202	50.0	53.2	
1	3.255	3.245	0.010	2529804	50.0	51.3	
1	3.697	3.690	0.007	1787647	50.0	47.2	M
1	3.772	3.762	0.010	9265815	50.0	50.3	M
1	3.880	3.870	0.010	16203841	50.0	50.6	M
		Average of Peak Amounts =				50.5	
2	2.886	2.880	0.006	1139459	50.0	53.5	
2	3.265	3.259	0.006	1323747	50.0	51.3	
2	3.710	3.702	0.008	1035292	50.0	53.3	
2	3.782	3.775	0.007	4214041	50.0	47.8	
2	3.891	3.883	0.008	7569848	50.0	48.9	
		Average of Peak Amounts =				51.0	
						RPD = 0.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

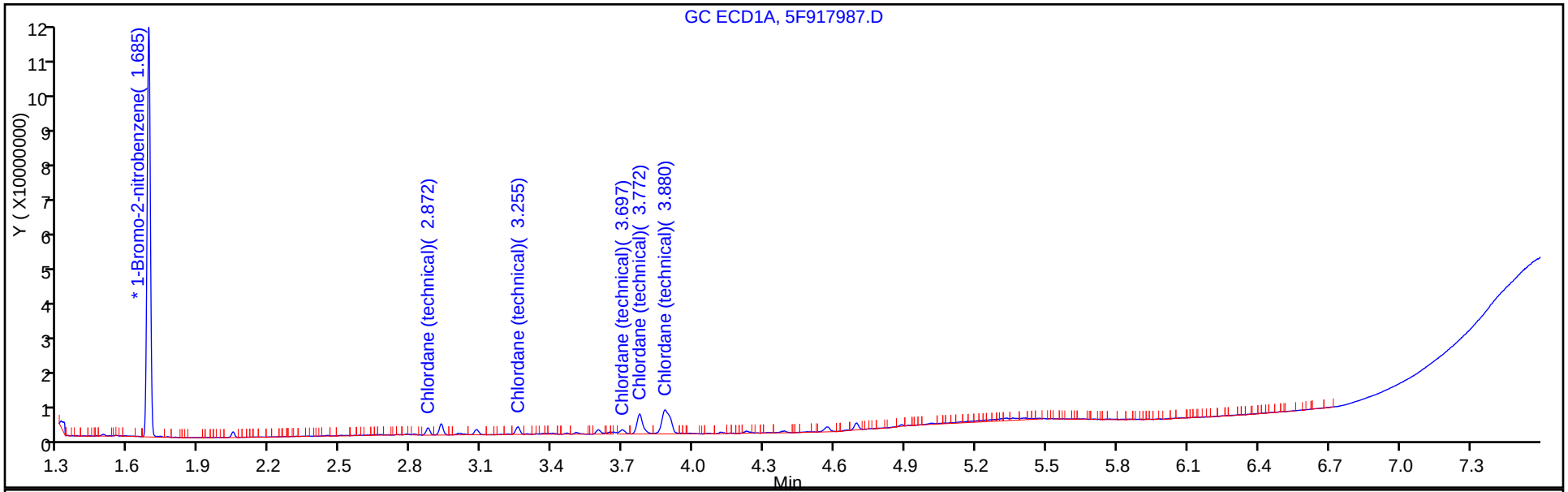
SGCHL608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

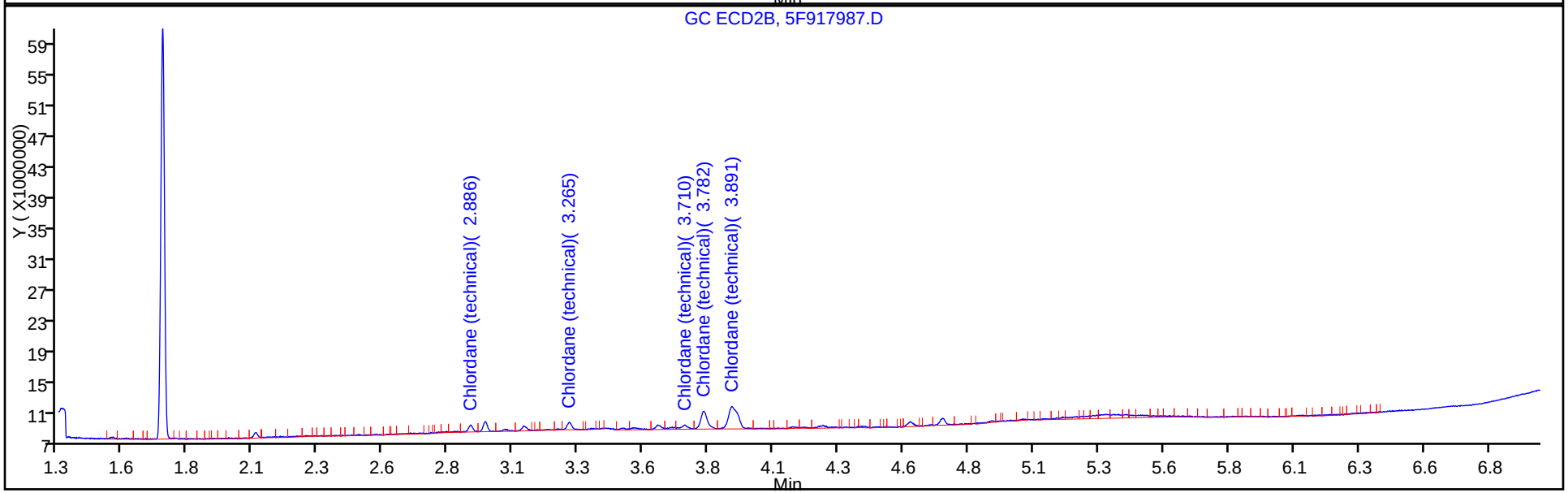
Report Date: 09-Feb-2018 12:04:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917987.D

Injection Date:	08-Feb-2018 16:38:01	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 09-Feb-2018 12:04:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917987.D

Injection Date: 08-Feb-2018 16:38:01 Instrument ID: CPESTGC5

Lims ID: IC CHLOL1

Client ID:

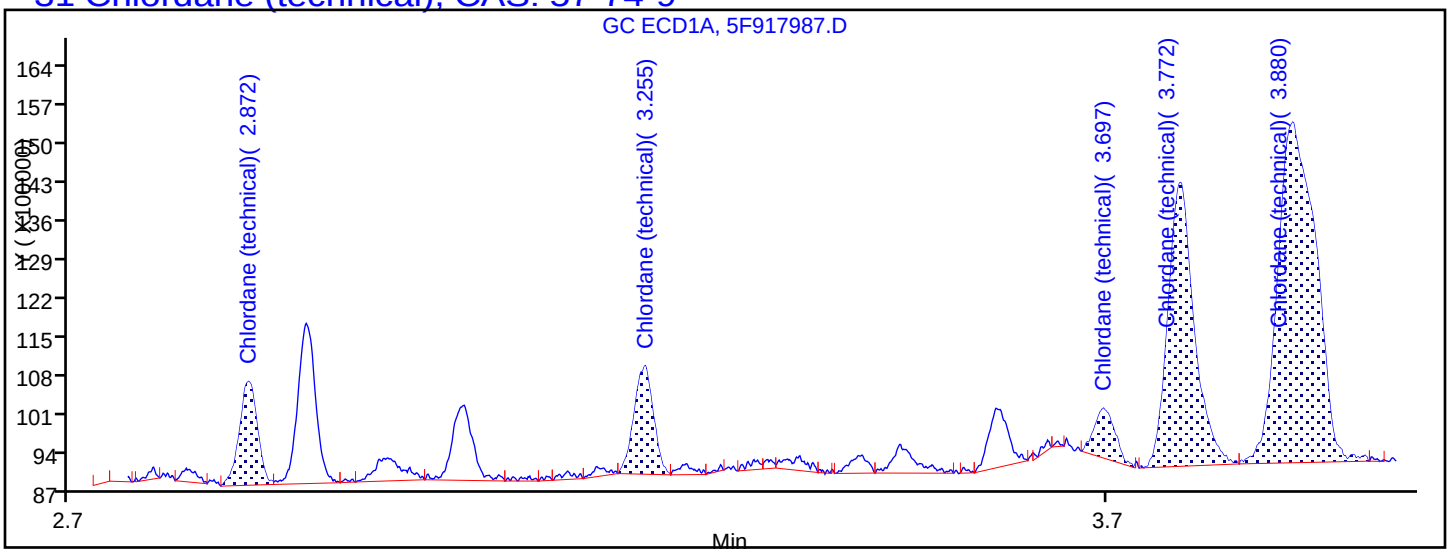
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD

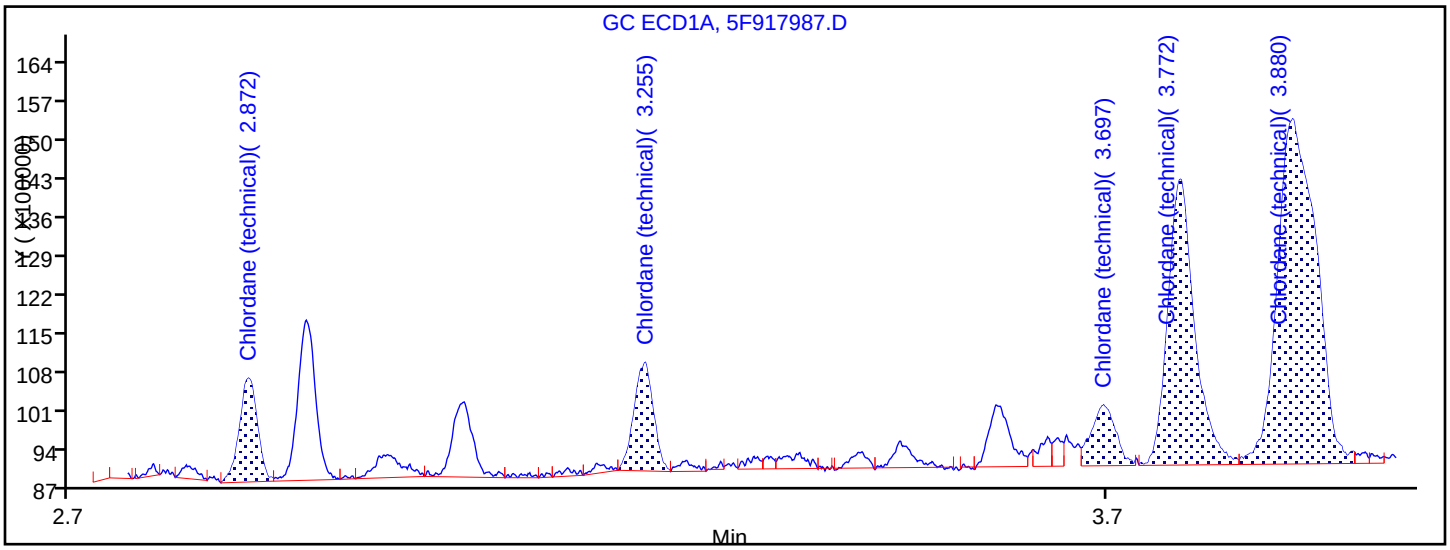
Column: Detector GC ECD1A

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

2.872	Response = 2272202	
3.255	Response = 2529804	
3.697	Response = 1247474	
3.772	Response = 9025100	
3.880	Response = 15706368	



Manual Integration Results

2.872	Response = 2272202	
3.255	Response = 2529804	
3.697	Response = 1787647	M
3.772	Response = 9265815	M
3.880	Response = 16203841	M

Reviewer: kapoors, 09-Feb-2018 08:19:33

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917988.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 16:50:48 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-011
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:23 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.677	0.002	108490105	100.0	100.0	
2	1.696	1.693	0.003	54283794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	2.865	2.865	0.000	21862141	500.0	492.8	
1	3.245	3.245	0.000	25338244	500.0	495.0	
1	3.689	3.690	-0.001	18338436	500.0	466.7	
1	3.761	3.762	-0.001	90848252	500.0	475.5	
1	3.869	3.870	-0.001	158034525	500.0	475.4	
		Average of Peak Amounts =				481.1	
2	2.879	2.880	-0.001	10505400	500.0	481.6	
2	3.257	3.259	-0.002	13190900	500.0	499.3	
2	3.700	3.702	-0.002	9227994	500.0	464.4	
2	3.773	3.775	-0.002	44105993	500.0	488.9	
2	3.881	3.883	-0.002	77572002	500.0	489.2	
		Average of Peak Amounts =				484.7	
						RPD = 0.74	

Reagents:

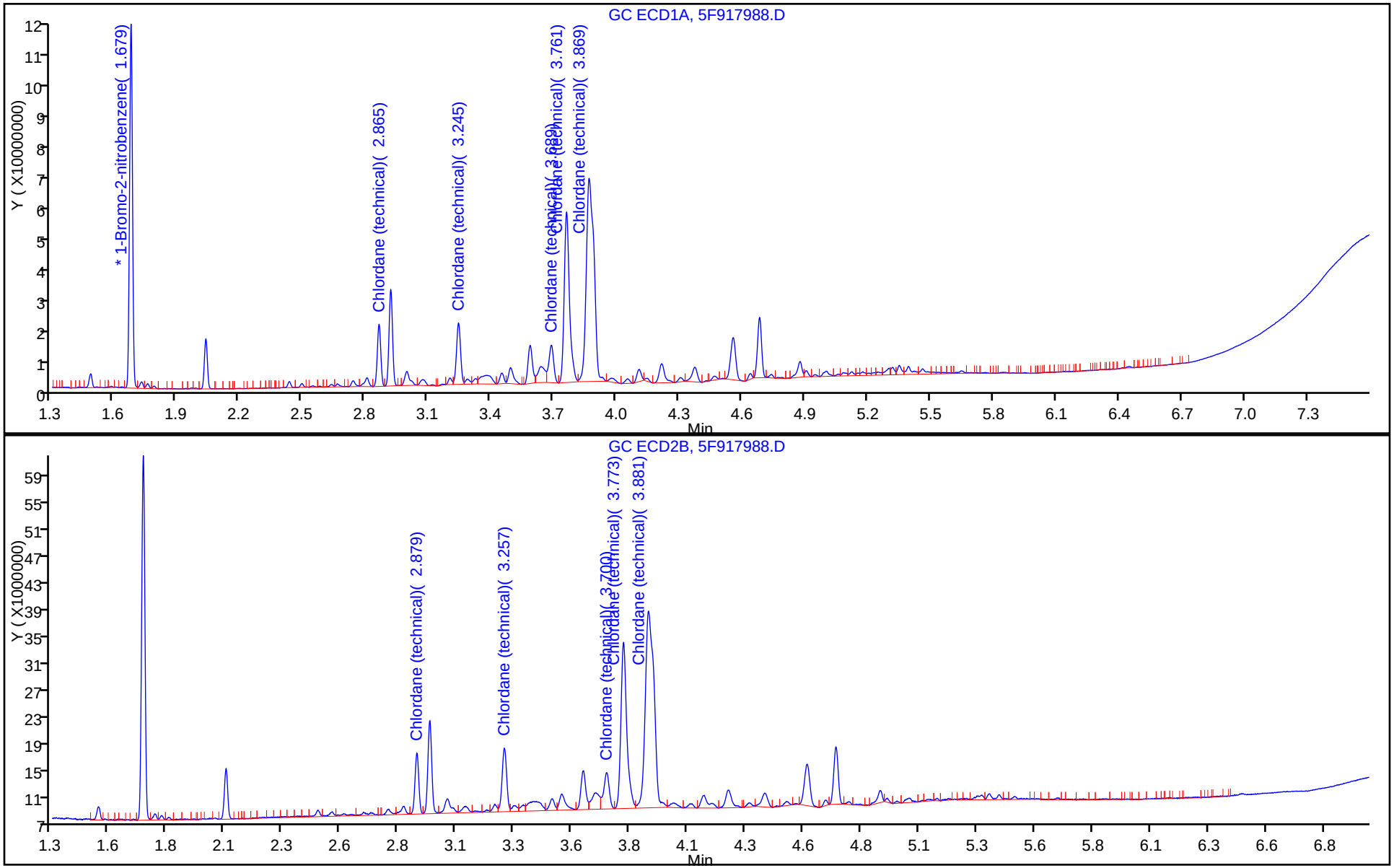
SGCHOL2_00014 Amount Added: 1.00 Units: mL
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Feb-2018 12:04:24 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917988.D

Injection Date:	08-Feb-2018 16:50:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917989.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 17:03:39 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-012
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:28 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:49:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.679	0.000	107775471	100.0	100.0	
2	1.695	1.695	0.000	52479404	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.068	2.068	0.000	108412788	100.0	95.0	
2	2.085	2.085	0.000	53010862	100.0	97.5	
						RPD = 2.59	
31 Chlordane (technical)							
1	2.865	2.865	0.000	39826140	1000.0	903.7	
1	3.245	3.245	0.000	45926342	1000.0	903.2	
1	3.690	3.690	0.000	35220687	1000.0	902.3	
1	3.762	3.762	0.000	171069199	1000.0	901.2	
1	3.870	3.870	0.000	300383740	1000.0	909.6	
		Average of Peak Amounts =				904.0	
2	2.880	2.880	0.000	20129478	1000.0	954.5	
2	3.259	3.259	0.000	25007562	1000.0	979.1	
2	3.702	3.702	0.000	18430260	1000.0	959.4	
2	3.775	3.775	0.000	85282554	1000.0	977.8	
2	3.883	3.883	0.000	148639871	1000.0	969.7	
		Average of Peak Amounts =				968.1	
						RPD = 6.85	
$ 24 DCB Decachlorobiphenyl							
1	6.320	6.320	0.000	131373690	100.0	93.6	
2	6.317	6.317	0.000	55350792	100.0	95.7	
						RPD = 2.15	

Reagents:

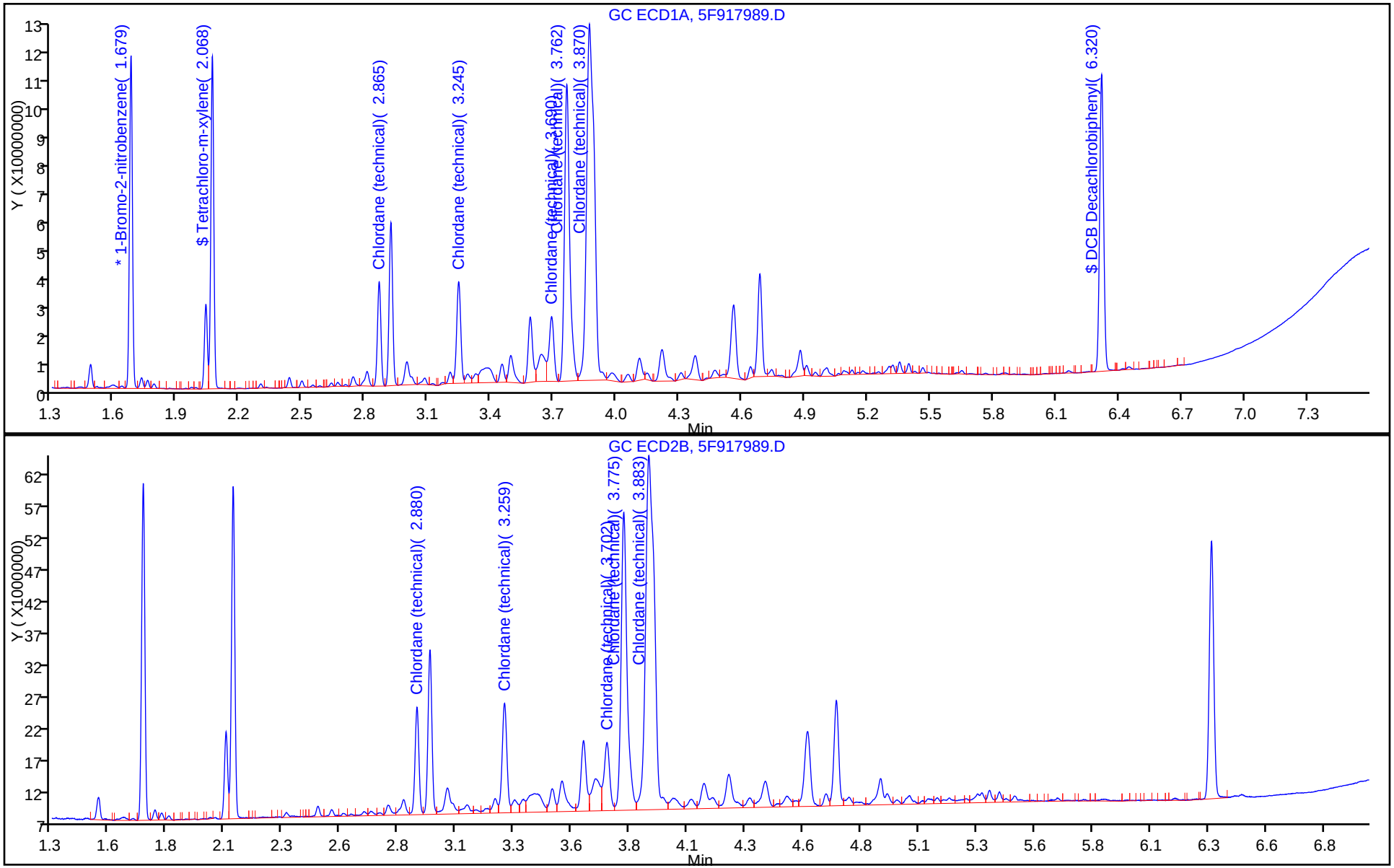
SGCHOL3_00025	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:28 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917989.D

Injection Date:	08-Feb-2018 17:03:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917990.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 17:16:35 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-013
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:33 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	104049227	100.0	100.0	
2	1.698	1.695	0.003	52030304	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	2.867	2.865	0.002	63940426	1500.0	1502.9	
1	3.247	3.245	0.002	75522308	1500.0	1538.4	
1	3.692	3.690	0.002	61285344	1500.0	1626.2	
1	3.765	3.762	0.003	285535513	1500.0	1558.1	
1	3.872	3.870	0.002	494010141	1500.0	1549.4	
		Average of Peak Amounts =				1555.0	
2	2.882	2.880	0.002	31406800	1500.0	1502.1	
2	3.260	3.259	0.001	37742331	1500.0	1490.4	
2	3.703	3.702	0.001	27785105	1500.0	1458.8	
2	3.777	3.775	0.002	133318789	1500.0	1541.7	
2	3.884	3.883	0.001	232852150	1500.0	1532.2	
		Average of Peak Amounts =				1505.0	
						RPD = 3.27	

Reagents:

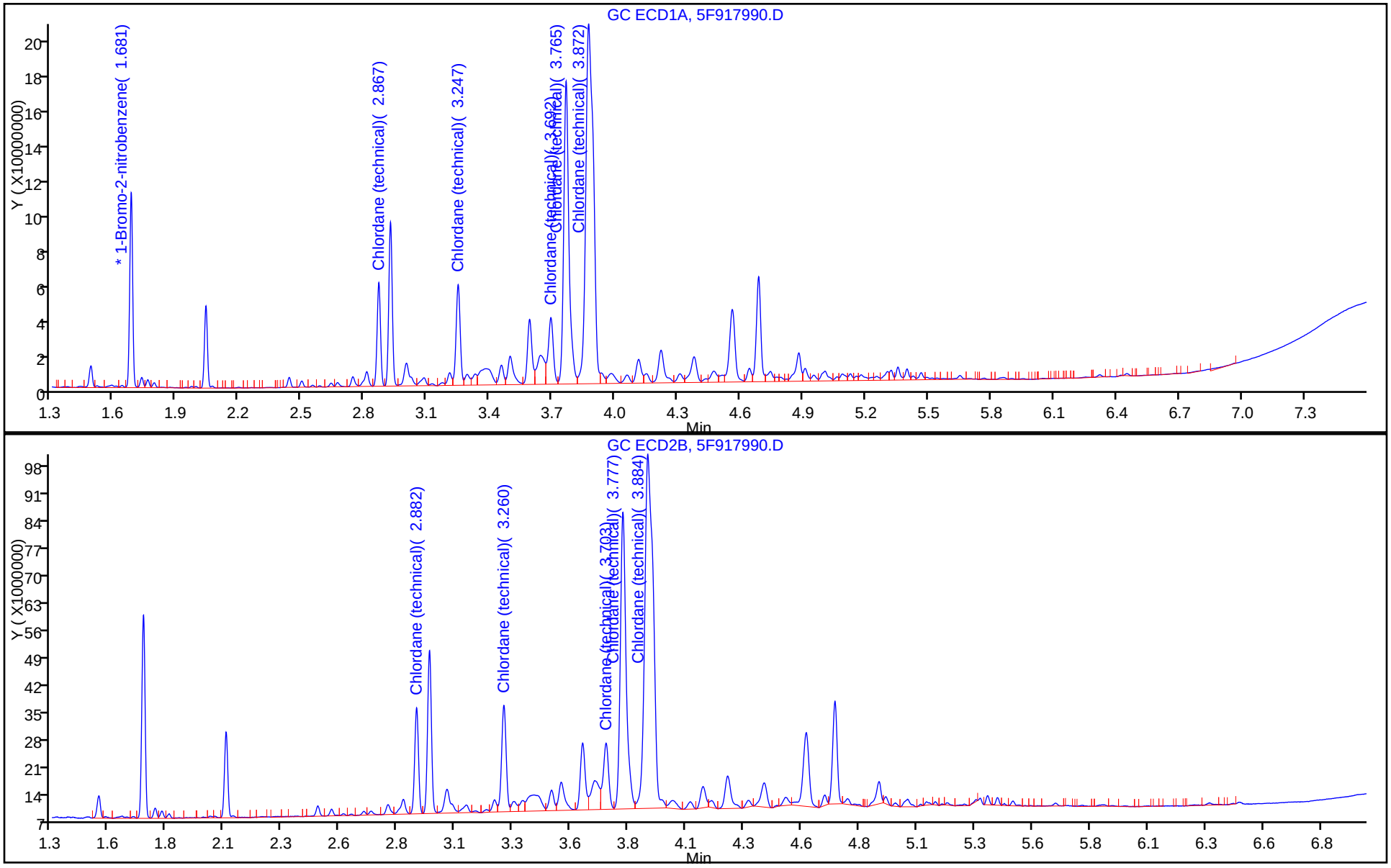
SGCHOL4_00012	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:33 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917990.D

Injection Date:	08-Feb-2018 17:16:35	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917991.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 17:29:26 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-014
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:37 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:50:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.678	1.679	-0.001	104709863	100.0	100.0	
2	1.695	1.695	0.000	54310906	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	2.865	2.865	0.000	111856849	2500.0	2612.6	
1	3.245	3.245	0.000	130285457	2500.0	2637.2	M
1	3.689	3.690	-0.001	107657154	2500.0	2838.7	M
1	3.763	3.762	0.001	508115039	2500.0	2755.3	M
1	3.871	3.870	0.001	878011446	2500.0	2736.5	M
		Average of Peak Amounts =				2716.0	
2	2.880	2.880	0.000	55200054	2500.0	2529.1	
2	3.258	3.259	-0.001	66289054	2500.0	2507.7	
2	3.701	3.702	-0.001	53318944	2500.0	2681.9	
2	3.774	3.775	-0.001	239281200	2500.0	2650.9	
2	3.882	3.883	-0.001	417615178	2500.0	2632.5	
		Average of Peak Amounts =				2600.4	
						RPD = 4.35	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

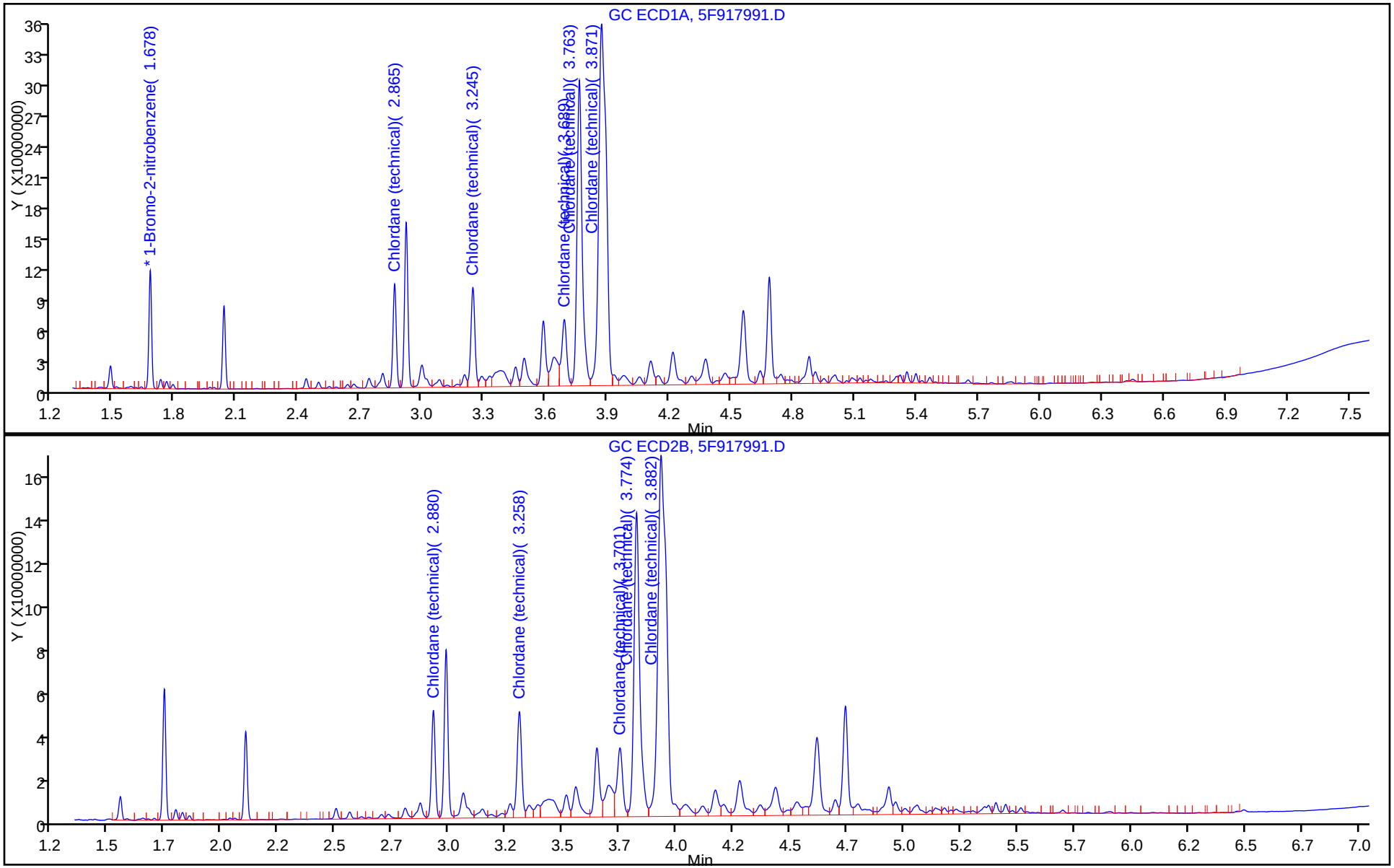
SGCHOL5_00012	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:37 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917991.D

Injection Date:	08-Feb-2018 17:29:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



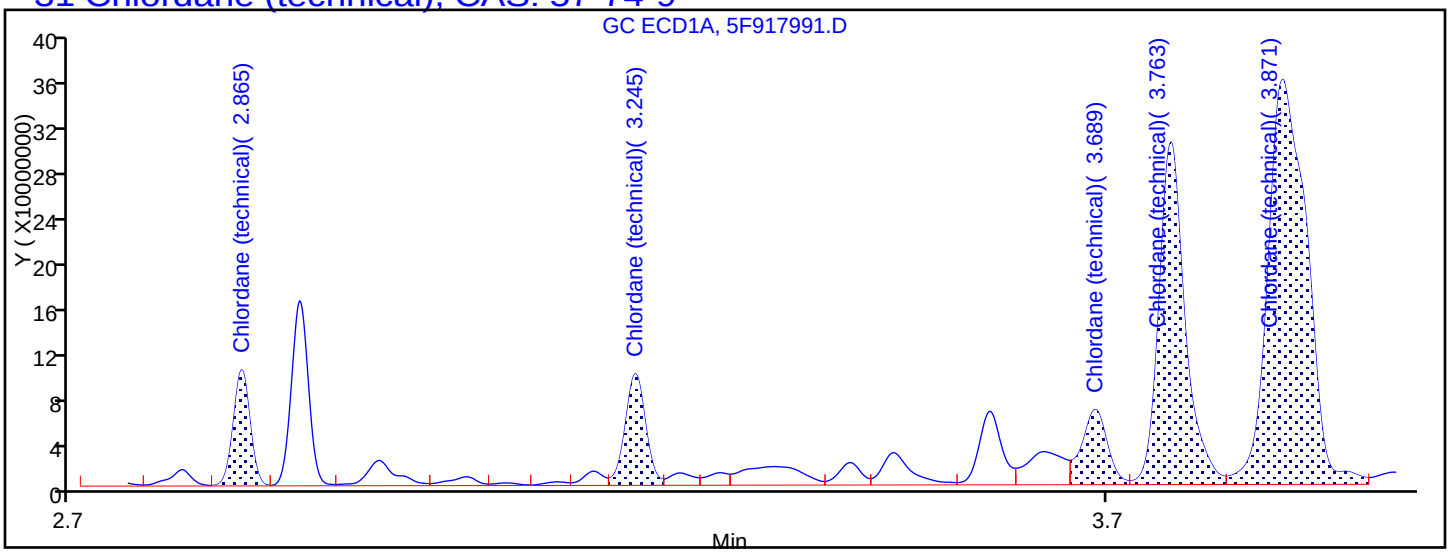
Report Date: 09-Feb-2018 12:04:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917991.D

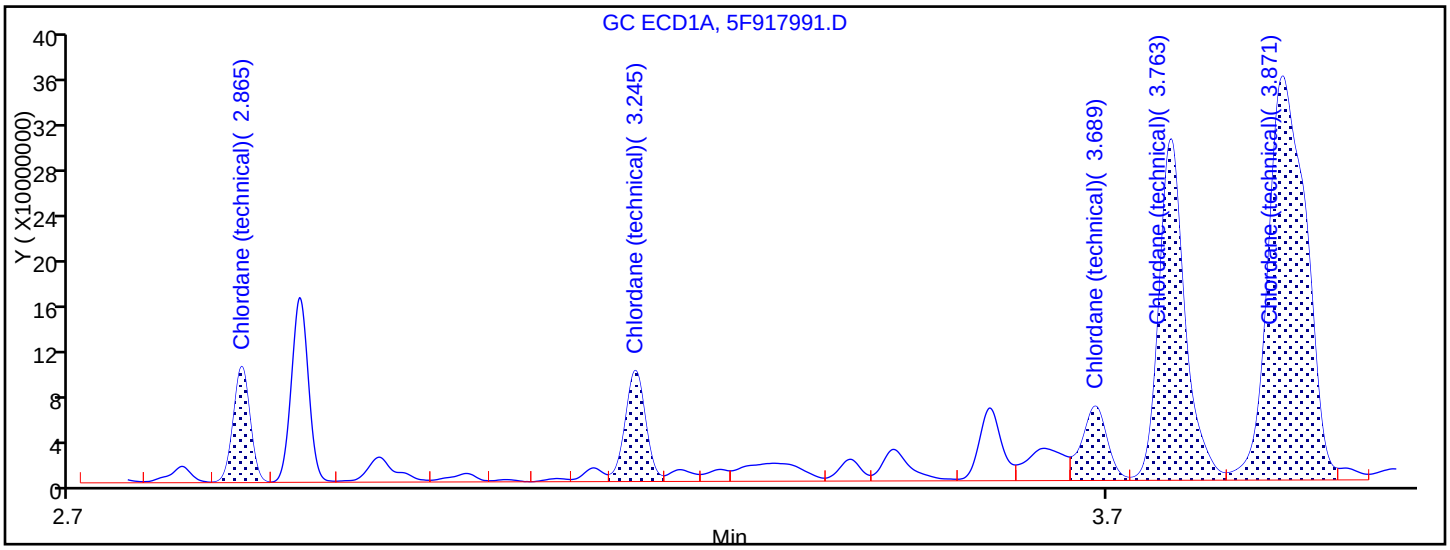
Injection Date:	08-Feb-2018 17:29:26	Instrument ID:	CPESTGC5		
Lims ID:	IC CHLOL5				
Client ID:					
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

2.865	Response = 111856849
3.245	Response = 131684593
3.689	Response = 110329871
3.763	Response = 512771557
3.871	Response = 899885008



Manual Integration Results

2.865	Response = 111856849	
3.245	Response = 130285457	M
3.689	Response = 107657154	M
3.763	Response = 508115039	M
3.871	Response = 878011446	M

Reviewer: kapoors, 09-Feb-2018 08:18:02

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:38 Calibration End Date: 02/08/2018 17:29 Calibration ID: 66479

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/10	5F917987.D
Level 2	IC 460-495906/11	5F917988.D
Level 3	IC 460-495906/12	5F917989.D
Level 4	IC 460-495906/13	5F917990.D
Level 5	IC 460-495906/14	5F917991.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0430	0.0387	0.0384	0.0402	0.0407	Ave		0.0402				4.6		20.0			
Chlordane (technical) Peak 2	0.0499	0.0486	0.0477	0.0484	0.0488	Ave		0.0487				1.7		20.0			
Chlordane (technical) Peak 3	0.0390	0.0340	0.0351	0.0356	0.0393	Ave		0.0366				6.6		20.0			
Chlordane (technical) Peak 4	0.1589	0.1625	0.1625	0.1708	0.1762	Ave		0.1662				4.3		20.0			
Chlordane (technical) Peak 5	0.2855	0.2858	0.2832	0.2984	0.3076	Ave		0.2921				3.6		20.0			
Tetrachloro-m-xylene			1.0101			Ave		1.0364				3.2		20.0			
DCB Decachlorobiphenyl			1.0547			Ave		1.1025				4.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 16:38 Calibration End Date: 02/08/2018 17:29 Calibration ID: 66479

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/10	5F917987.D
Level 2	IC 460-495906/11	5F917988.D
Level 3	IC 460-495906/12	5F917989.D
Level 4	IC 460-495906/13	5F917990.D
Level 5	IC 460-495906/14	5F917991.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	1139459	10505400	20129478	31406800	55200054	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	1323747	13190900	25007562	37742331	66289054	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	1035292	9227994	18430260	27785105	53318944	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	4214041	44105993	85282554	133318789	239281200	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	7569848	77572002	148639871	232852150	417615178	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave			53010862					100		
DCB Decachlorobiphenyl	BNB	Ave			55350792					100		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917987.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 16:38:01 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-010
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:18 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:16:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.677	0.008	104491230	100.0	100.0	
2	1.702	1.693	0.009	53031510	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	2.872	2.865	0.007	2272202	50.0	53.2	
1	3.255	3.245	0.010	2529804	50.0	51.3	
1	3.697	3.690	0.007	1787647	50.0	47.2	M
1	3.772	3.762	0.010	9265815	50.0	50.3	M
1	3.880	3.870	0.010	16203841	50.0	50.6	M
		Average of Peak Amounts =				50.5	
2	2.886	2.880	0.006	1139459	50.0	53.5	
2	3.265	3.259	0.006	1323747	50.0	51.3	
2	3.710	3.702	0.008	1035292	50.0	53.3	
2	3.782	3.775	0.007	4214041	50.0	47.8	
2	3.891	3.883	0.008	7569848	50.0	48.9	
		Average of Peak Amounts =				51.0	
						RPD = 0.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

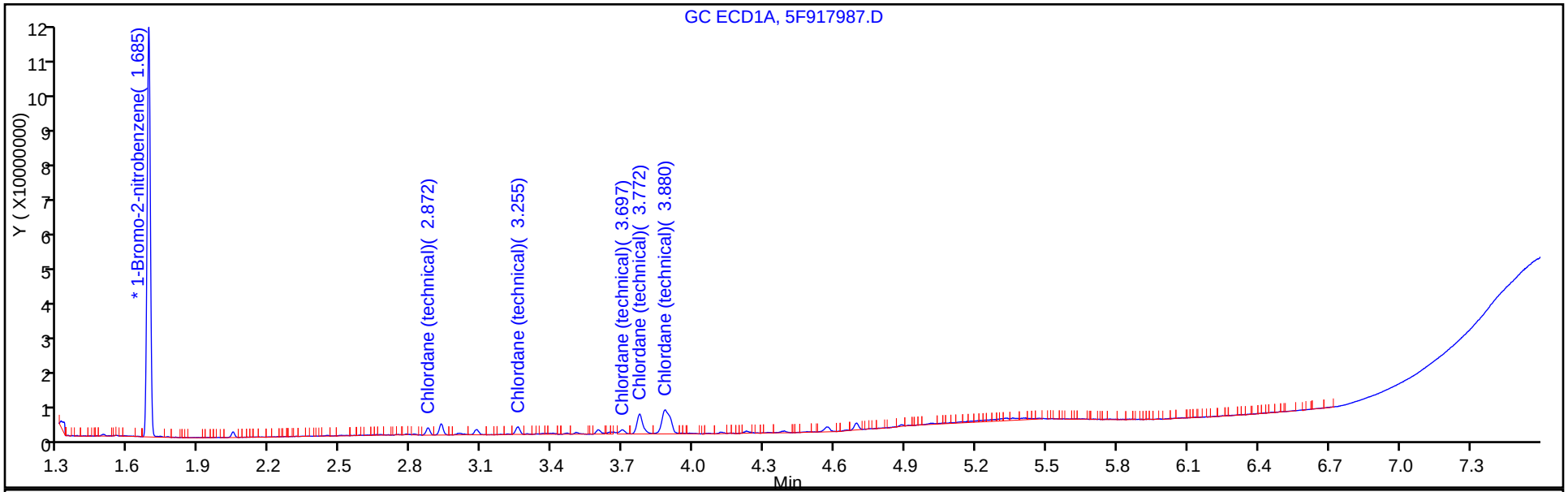
SGCHL608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

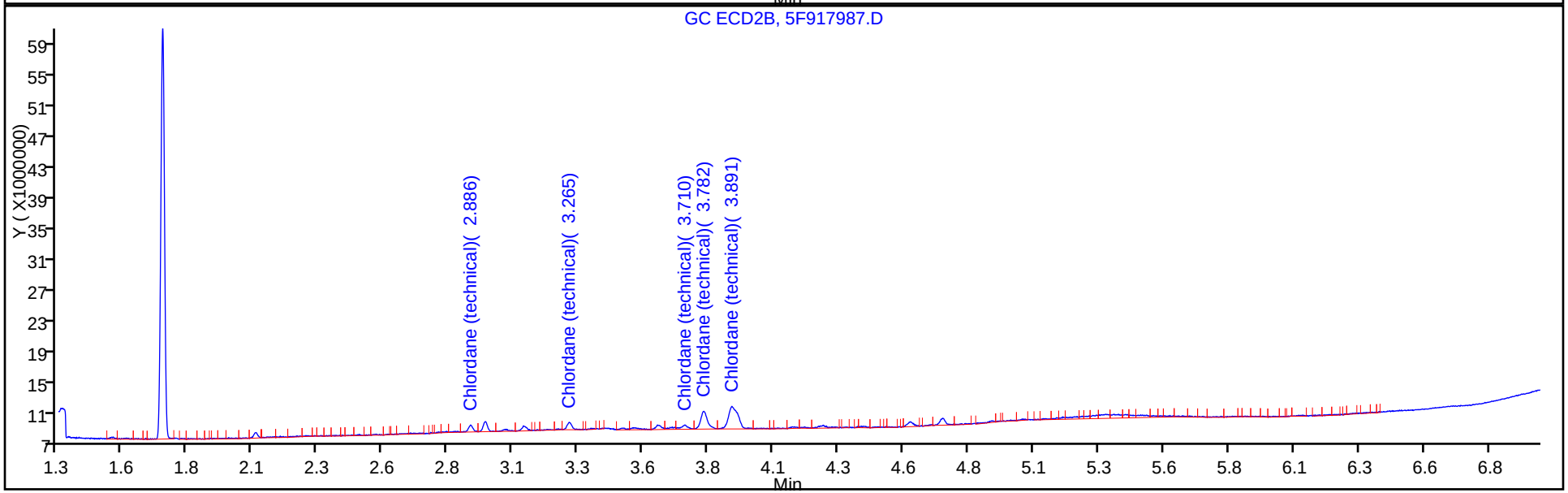
Report Date: 09-Feb-2018 12:04:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917987.D

Injection Date:	08-Feb-2018 16:38:01	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917988.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 16:50:48 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-011
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:23 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.677	0.002	108490105	100.0	100.0	
2	1.696	1.693	0.003	54283794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	2.865	2.865	0.000	21862141	500.0	492.8	
1	3.245	3.245	0.000	25338244	500.0	495.0	
1	3.689	3.690	-0.001	18338436	500.0	466.7	
1	3.761	3.762	-0.001	90848252	500.0	475.5	
1	3.869	3.870	-0.001	158034525	500.0	475.4	
		Average of Peak Amounts =				481.1	
2	2.879	2.880	-0.001	10505400	500.0	481.6	
2	3.257	3.259	-0.002	13190900	500.0	499.3	
2	3.700	3.702	-0.002	9227994	500.0	464.4	
2	3.773	3.775	-0.002	44105993	500.0	488.9	
2	3.881	3.883	-0.002	77572002	500.0	489.2	
		Average of Peak Amounts =				484.7	
						RPD = 0.74	

Reagents:

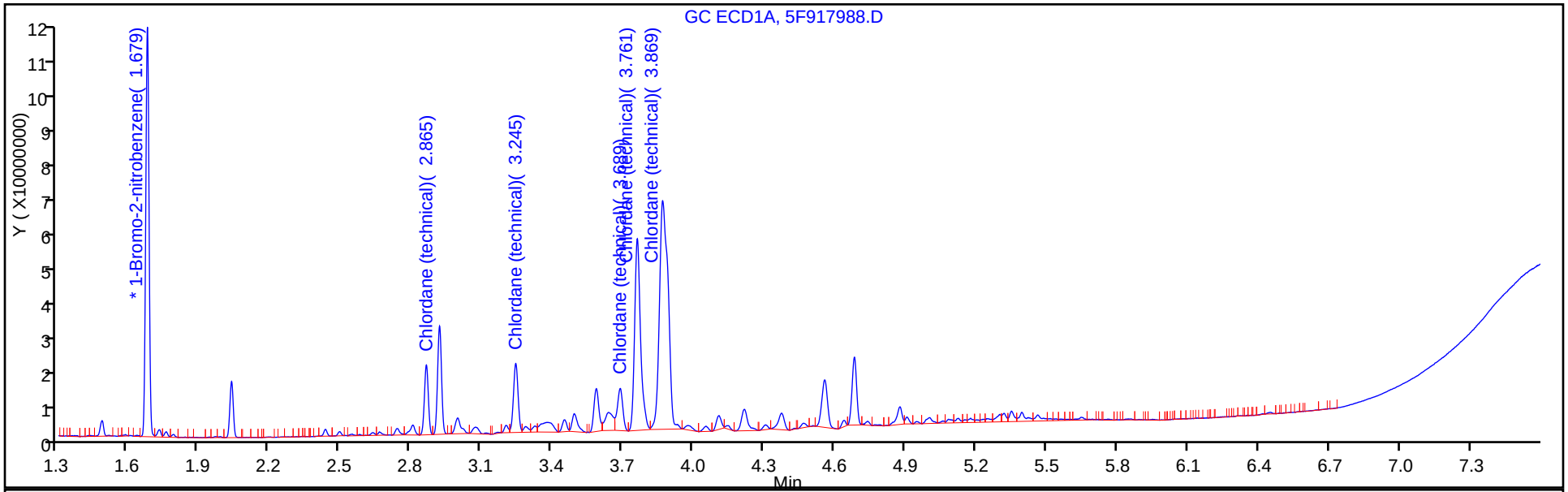
SGCHOL2_00014 Amount Added: 1.00 Units: mL
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

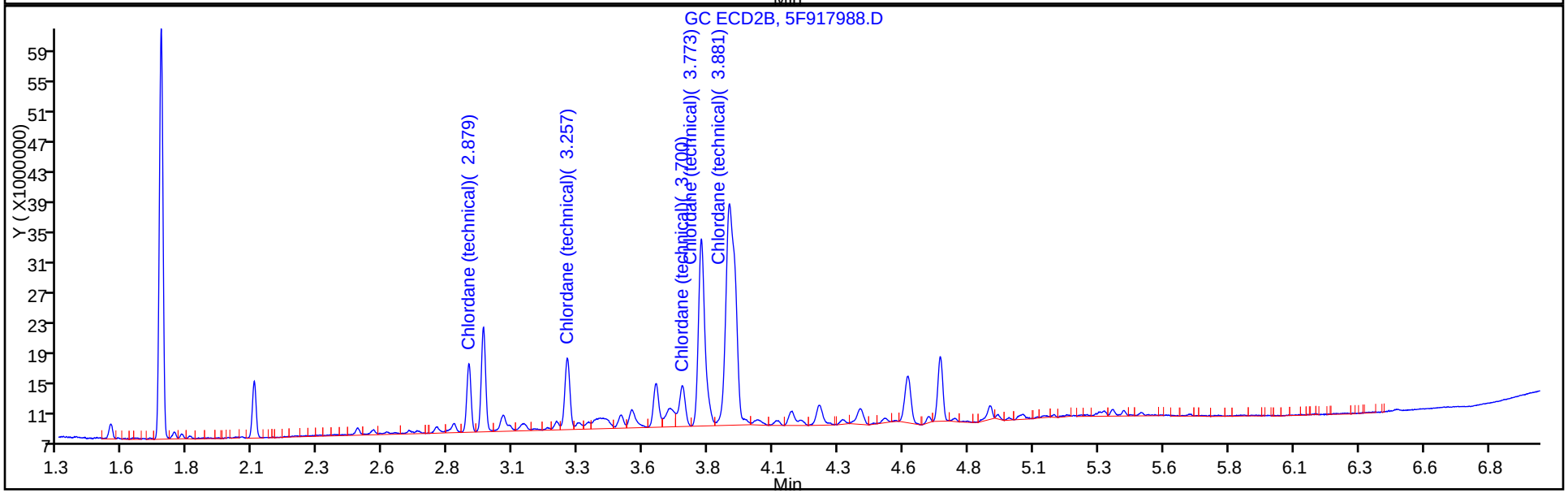
Report Date: 09-Feb-2018 12:04:24 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917988.D

Injection Date:	08-Feb-2018 16:50:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917989.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 17:03:39 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-012
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:28 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:49:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.679	0.000	107775471	100.0	100.0	
2	1.695	1.695	0.000	52479404	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.068	2.068	0.000	108412788	100.0	95.0	
2	2.085	2.085	0.000	53010862	100.0	97.5	
						RPD = 2.59	
31 Chlordane (technical)							
1	2.865	2.865	0.000	39826140	1000.0	903.7	
1	3.245	3.245	0.000	45926342	1000.0	903.2	
1	3.690	3.690	0.000	35220687	1000.0	902.3	
1	3.762	3.762	0.000	171069199	1000.0	901.2	
1	3.870	3.870	0.000	300383740	1000.0	909.6	
		Average of Peak Amounts =				904.0	
2	2.880	2.880	0.000	20129478	1000.0	954.5	
2	3.259	3.259	0.000	25007562	1000.0	979.1	
2	3.702	3.702	0.000	18430260	1000.0	959.4	
2	3.775	3.775	0.000	85282554	1000.0	977.8	
2	3.883	3.883	0.000	148639871	1000.0	969.7	
		Average of Peak Amounts =				968.1	
						RPD = 6.85	
$ 24 DCB Decachlorobiphenyl							
1	6.320	6.320	0.000	131373690	100.0	93.6	
2	6.317	6.317	0.000	55350792	100.0	95.7	
						RPD = 2.15	

Reagents:

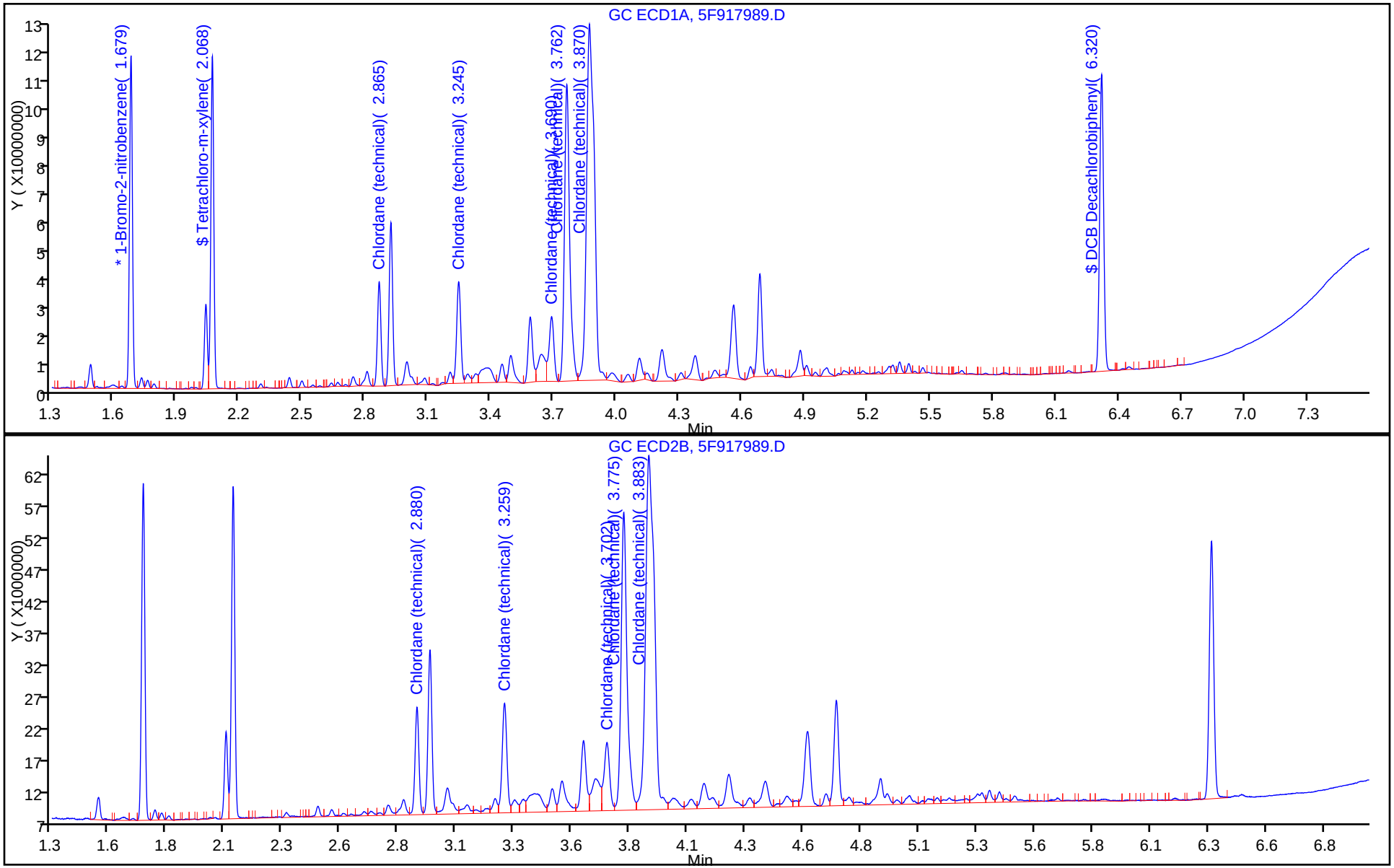
SGCHOL3_00025	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:29 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917989.D

Injection Date:	08-Feb-2018 17:03:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917990.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 17:16:35 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-013
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:33 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	104049227	100.0	100.0	
2	1.698	1.695	0.003	52030304	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	2.867	2.865	0.002	63940426	1500.0	1502.9	
1	3.247	3.245	0.002	75522308	1500.0	1538.4	
1	3.692	3.690	0.002	61285344	1500.0	1626.2	
1	3.765	3.762	0.003	285535513	1500.0	1558.1	
1	3.872	3.870	0.002	494010141	1500.0	1549.4	
		Average of Peak Amounts =				1555.0	
2	2.882	2.880	0.002	31406800	1500.0	1502.1	
2	3.260	3.259	0.001	37742331	1500.0	1490.4	
2	3.703	3.702	0.001	27785105	1500.0	1458.8	
2	3.777	3.775	0.002	133318789	1500.0	1541.7	
2	3.884	3.883	0.001	232852150	1500.0	1532.2	
		Average of Peak Amounts =				1505.0	
						RPD = 3.27	

Reagents:

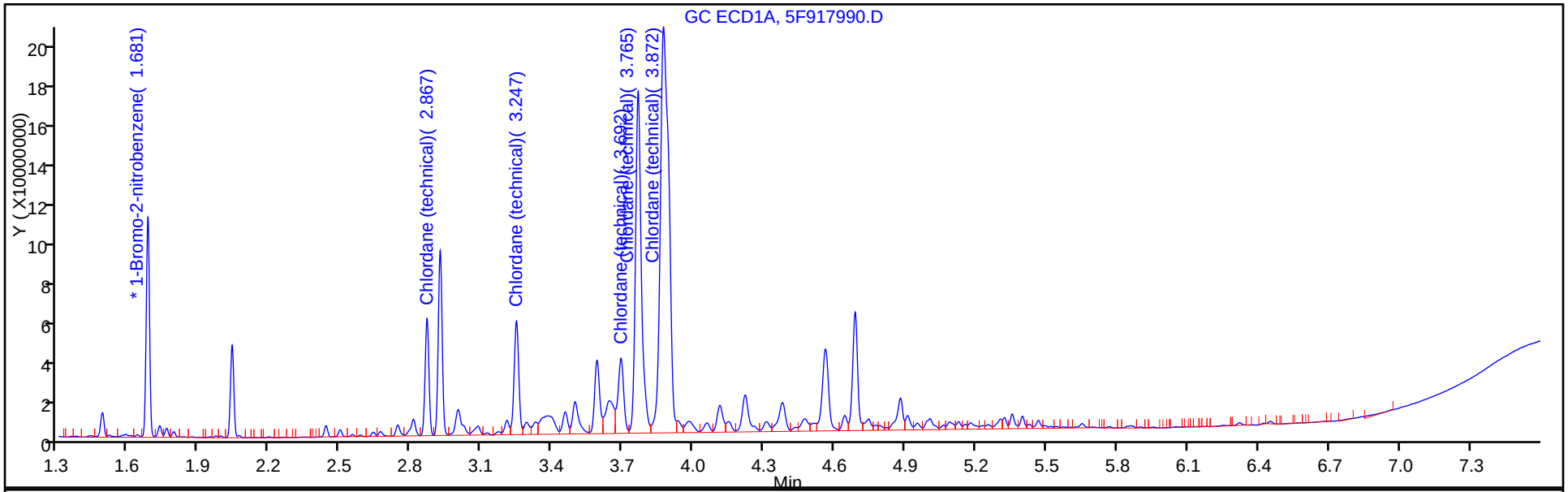
SGCHOL4_00012	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

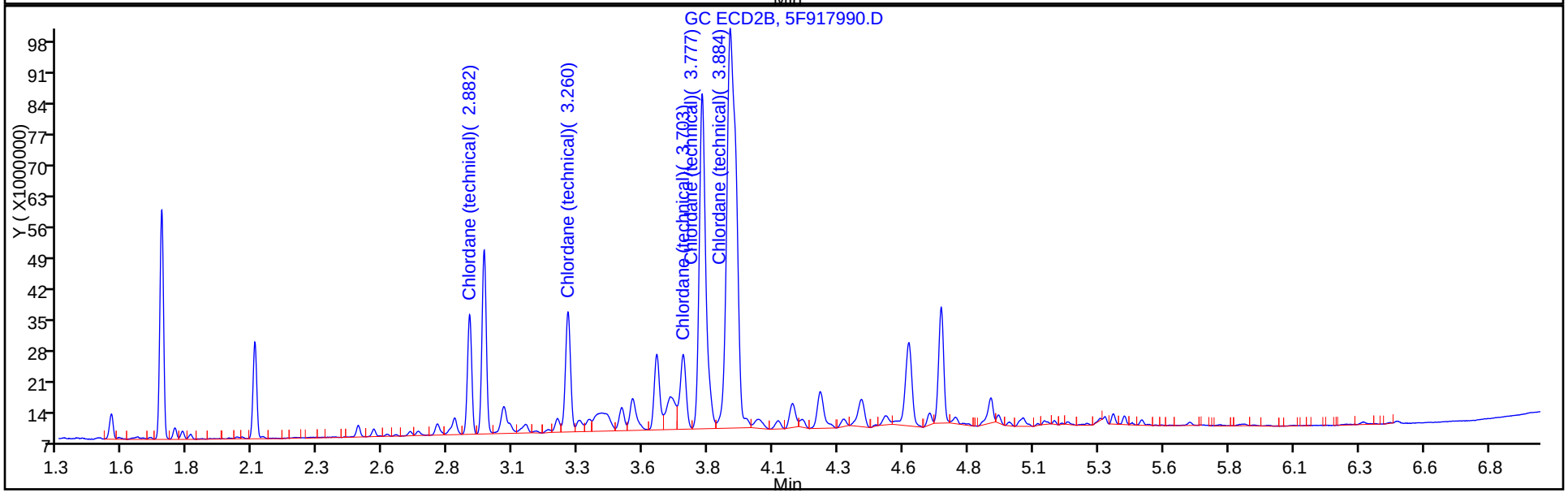
Report Date: 09-Feb-2018 12:04:34 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917990.D

Injection Date:	08-Feb-2018 17:16:35	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917991.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 17:29:26 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-014
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:37 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 06:50:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.678	1.679	-0.001	104709863	100.0	100.0	
2	1.695	1.695	0.000	54310906	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	2.865	2.865	0.000	111856849	2500.0	2612.6	
1	3.245	3.245	0.000	130285457	2500.0	2637.2	M
1	3.689	3.690	-0.001	107657154	2500.0	2838.7	M
1	3.763	3.762	0.001	508115039	2500.0	2755.3	M
1	3.871	3.870	0.001	878011446	2500.0	2736.5	M
		Average of Peak Amounts =				2716.0	
2	2.880	2.880	0.000	55200054	2500.0	2529.1	
2	3.258	3.259	-0.001	66289054	2500.0	2507.7	
2	3.701	3.702	-0.001	53318944	2500.0	2681.9	
2	3.774	3.775	-0.001	239281200	2500.0	2650.9	
2	3.882	3.883	-0.001	417615178	2500.0	2632.5	
		Average of Peak Amounts =				2600.4	
						RPD = 4.35	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

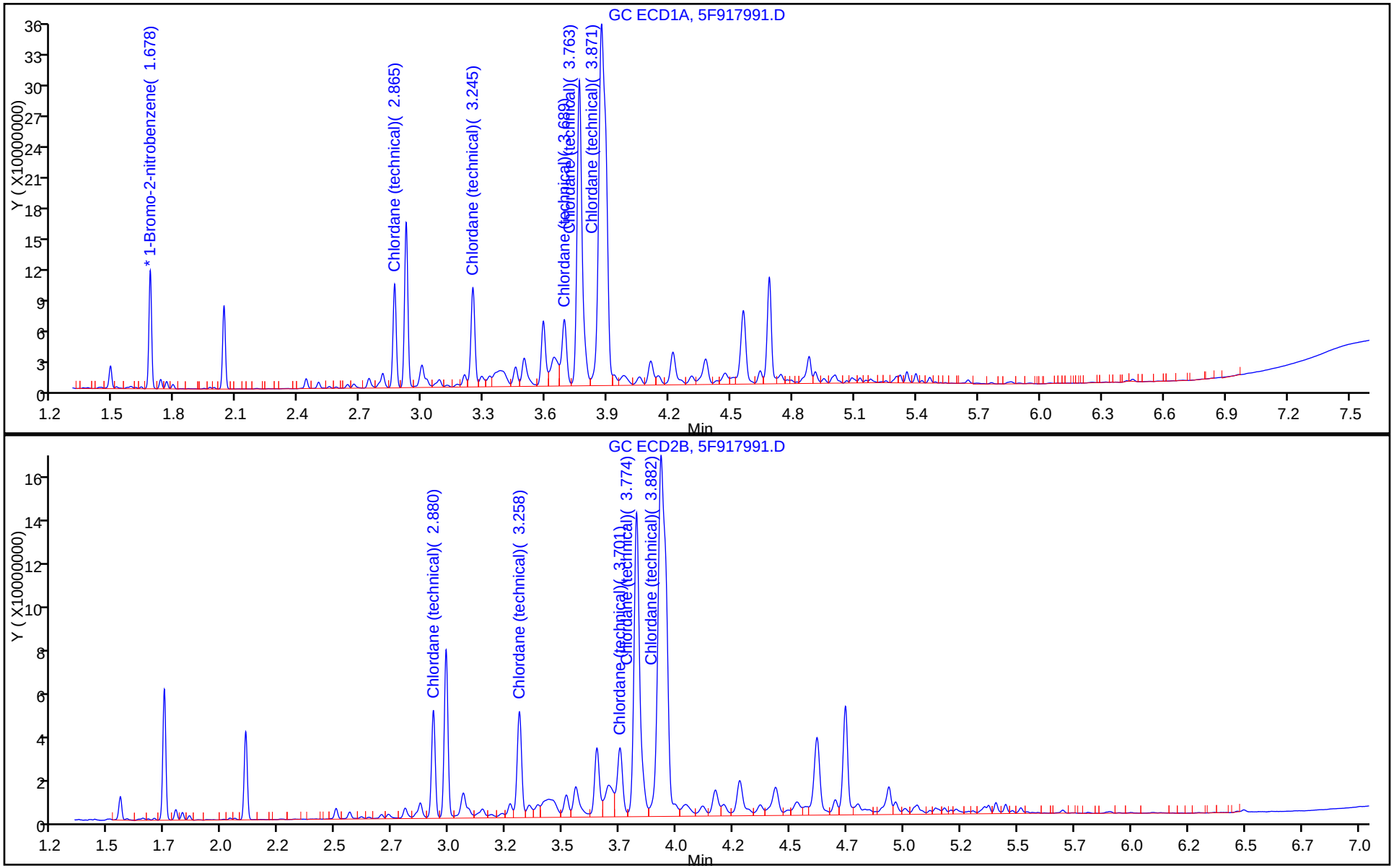
SGCHOL5_00012	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917991.D

Injection Date:	08-Feb-2018 17:29:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 17:55 Calibration End Date: 02/08/2018 18:46 Calibration ID: 66490

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/16	5F917993.D
Level 2	IC 460-495906/17	5F917994.D
Level 3	IC 460-495906/18	5F917995.D
Level 4	IC 460-495906/20	5F917997.D
Level 5	IC 460-495906/19	5F917996.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0374	0.0380	0.0368	0.0346	0.0481	Ave		0.0390				13.5		20.0			
Toxaphene Peak 2	0.0285	0.0391	0.0343	0.0370	0.0380	Ave		0.0354				11.9		20.0			
Toxaphene Peak 3	0.0417	0.0489	0.0434	0.0456	0.0473	Ave		0.0454				6.3		20.0			
Toxaphene Peak 4	0.0700	0.0655	0.0542	0.0578	0.0599	Ave		0.0615				10.2		20.0			
Toxaphene Peak 5	0.0193	0.0291	0.0198	0.0268	0.0289	Ave		0.0248				19.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 17:55 Calibration End Date: 02/08/2018 18:46 Calibration ID: 66490

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/16	5F917993.D
Level 2	IC 460-495906/17	5F917994.D
Level 3	IC 460-495906/18	5F917995.D
Level 4	IC 460-495906/20	5F917997.D
Level 5	IC 460-495906/19	5F917996.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	2022741	20228630	37969711	55608459	127153822	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	1540977	20820196	35349562	59395838	100327232	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	2253847	26014985	44807869	73202731	125096377	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	3783138	34867072	55933793	92889161	158137768	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	1041683	15517481	20379256	42967936	76232082	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D
Lims ID: IC TOXL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 17:55:07 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-016
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:47 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	108032168	100.0	100.0	
2	1.697	1.696	0.001	52331343	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							Ma
1	4.450	4.452	-0.002	2022741	50.0	48.0	M
1	4.951	4.948	0.003	1540977	50.0	40.3	M
1	4.989	4.986	0.003	2253847	50.0	46.0	M
1	5.265	5.263	0.002	3783138	50.0	56.9	M
1	5.492	5.489	0.003	1041683	50.0	38.9	M
		Average of Peak Amounts =				46.0	
2	4.586	4.566	0.020	1223836	50.0	48.7	M
2	4.994	4.991	0.003	1364630	50.0	58.1	M
2	5.140	5.136	0.004	1447768	50.0	59.8	M
2	5.206	5.206	0.000	1674556	50.0	59.1	M
2	5.266	5.266	0.000	1474548	50.0	53.8	M
		Average of Peak Amounts =				55.9	
						RPD = 19.33	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

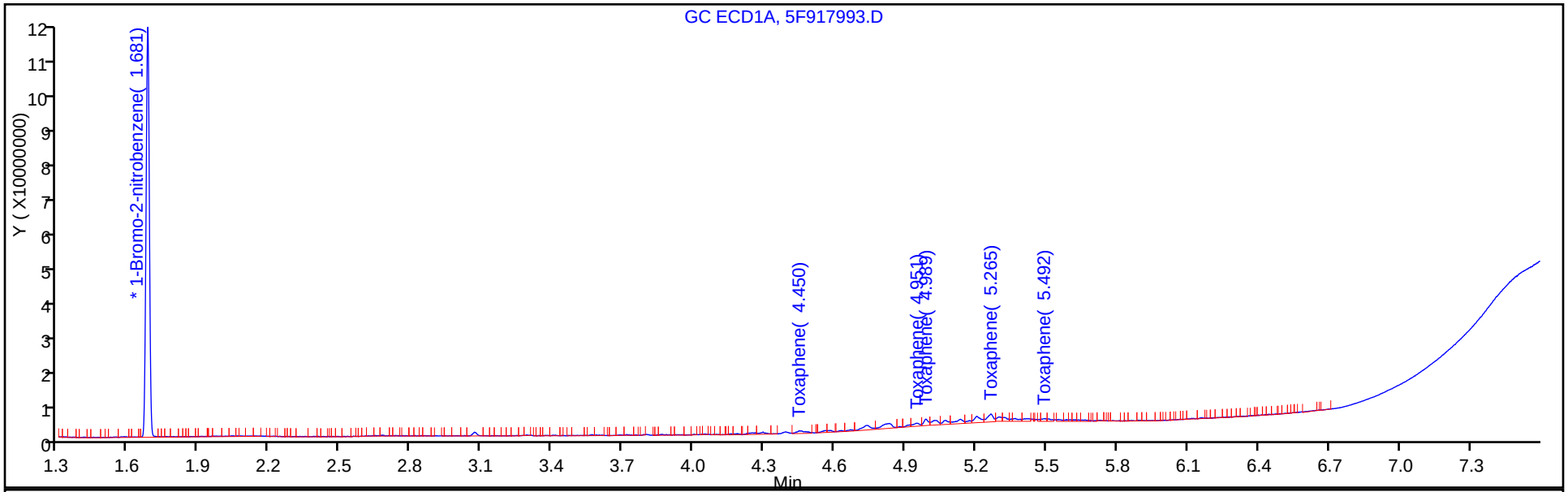
SGTOX608LVIL1_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

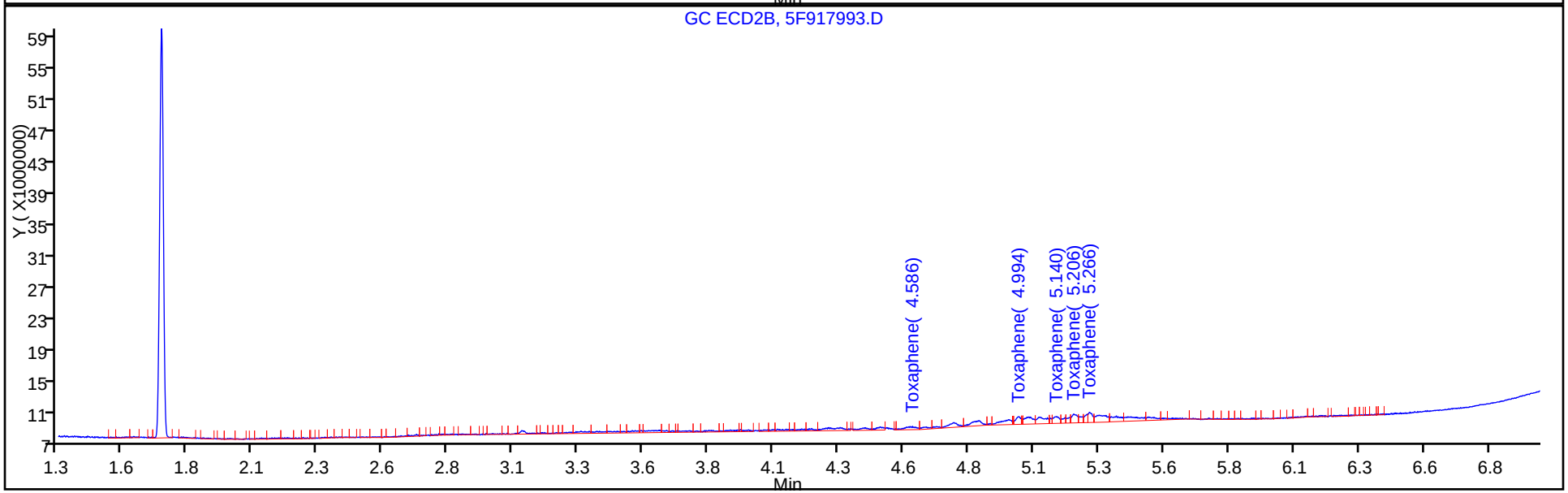
Report Date: 09-Feb-2018 12:04:48 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D

Injection Date:	08-Feb-2018 17:55:07	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL1			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 09-Feb-2018 12:04:48 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D

Injection Date: 08-Feb-2018 17:55:07 Instrument ID: CPESTGC5

Lims ID: IC TOXL1

Client ID:

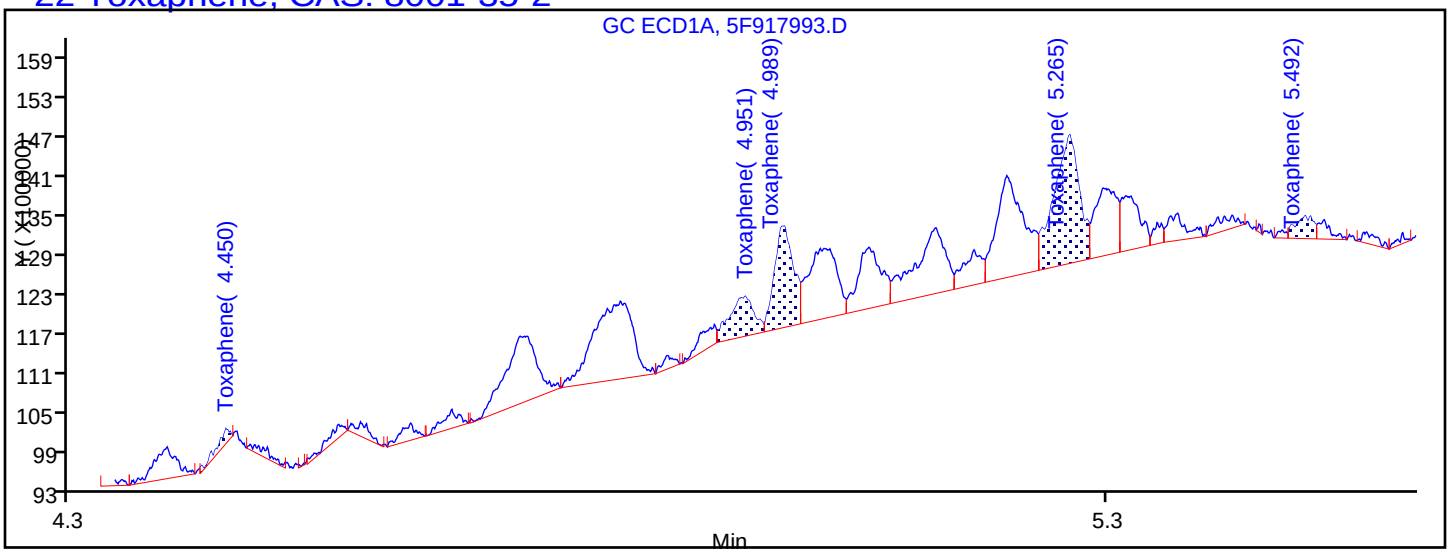
Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD

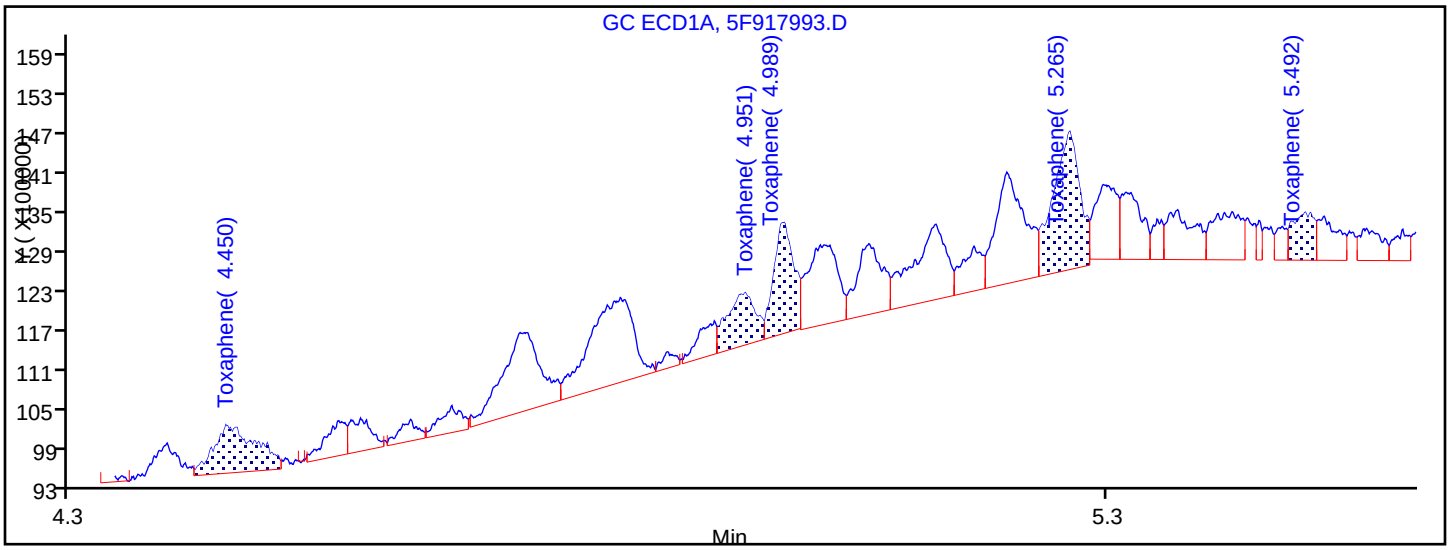
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.450	Response = 184166
4.951	Response = 1007311
4.989	Response = 1946349
5.265	Response = 3347392
5.492	Response = 410658



Manual Integration Results

4.450	Response = 2022741	M
4.951	Response = 1540977	M
4.989	Response = 2253847	M
5.265	Response = 3783138	M
5.492	Response = 1041683	M

Reviewer: patelji, 09-Feb-2018 11:53:17

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D
Lims ID: IC TOXL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 18:07:55 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-017
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:53 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:47:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.680	1.679	0.001	106471339	100.0	100.0	
2	1.697	1.696	0.001	51879720	100.0	100.0	M
						RPD = 0.00	
22 Toxaphene							M
1	4.450	4.452	-0.002	20228630	500.0	487.1	M
1	4.948	4.948	0.000	20820196	500.0	552.8	M
1	4.986	4.986	0.000	26014985	500.0	538.3	M
1	5.262	5.263	-0.001	34867072	500.0	532.6	M
1	5.489	5.489	0.000	15517481	500.0	588.6	M
		Average of Peak Amounts =				539.9	
2	4.566	4.566	0.000	12651100	500.0	507.4	M
2	4.991	4.991	0.000	12001906	500.0	515.2	M
2	5.136	5.136	0.000	12494586	500.0	520.7	M
2	5.205	5.206	-0.001	14888677	500.0	530.1	M
2	5.265	5.266	-0.001	14585276	500.0	536.8	M
		Average of Peak Amounts =				522.0	
						RPD = 3.36	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

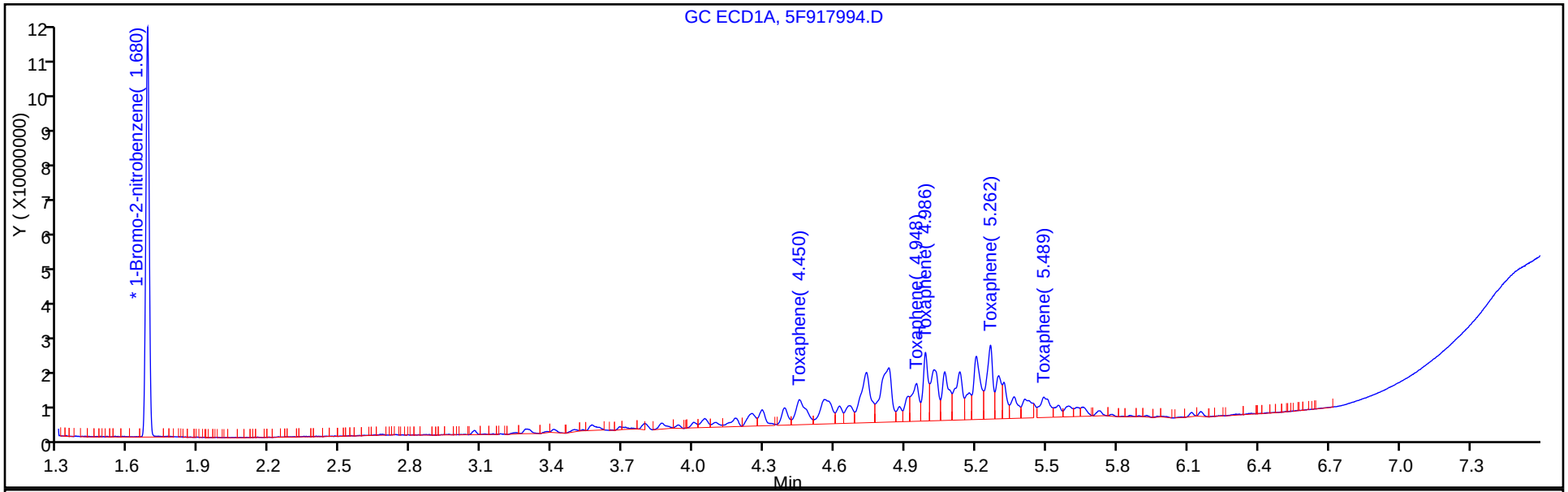
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

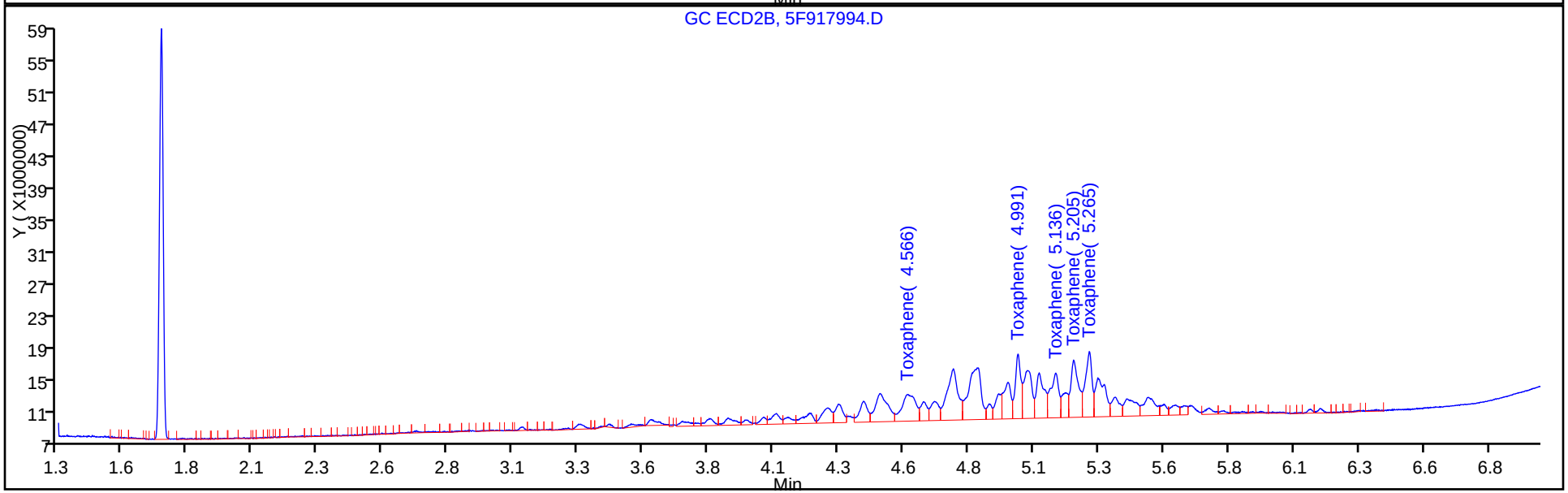
Report Date: 09-Feb-2018 12:04:53 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D

Injection Date:	08-Feb-2018 18:07:55	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 09-Feb-2018 12:04:54 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D

Injection Date: 08-Feb-2018 18:07:55 Instrument ID: CPESTGC5

Lims ID: IC TOXL2

Client ID:

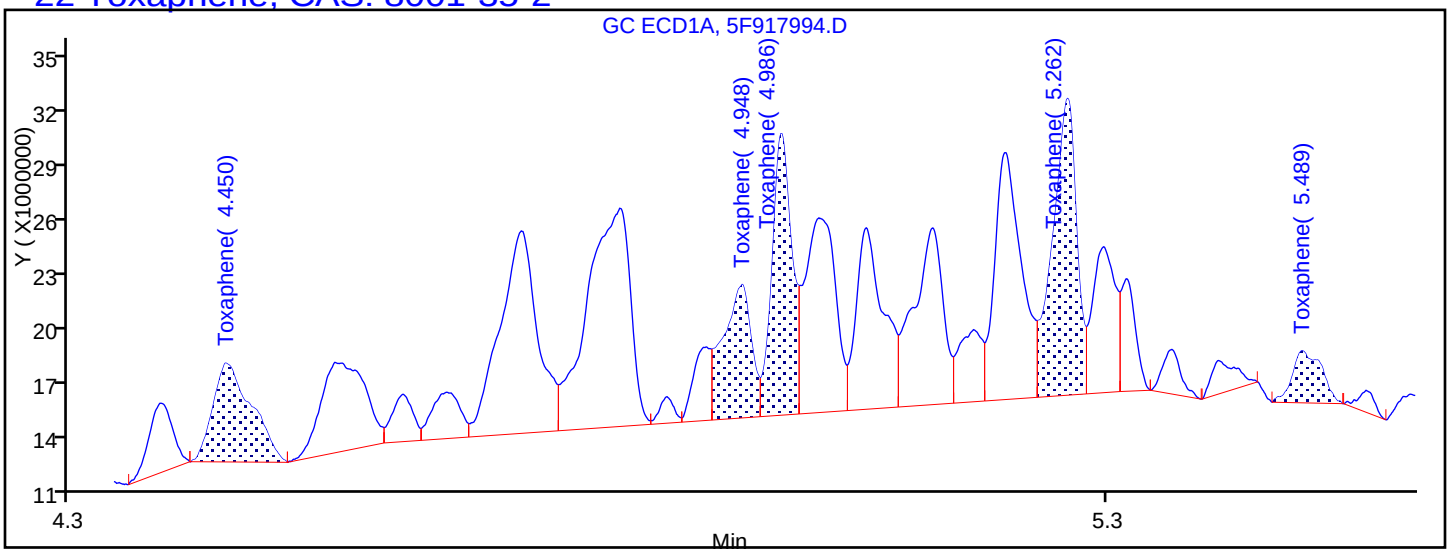
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD

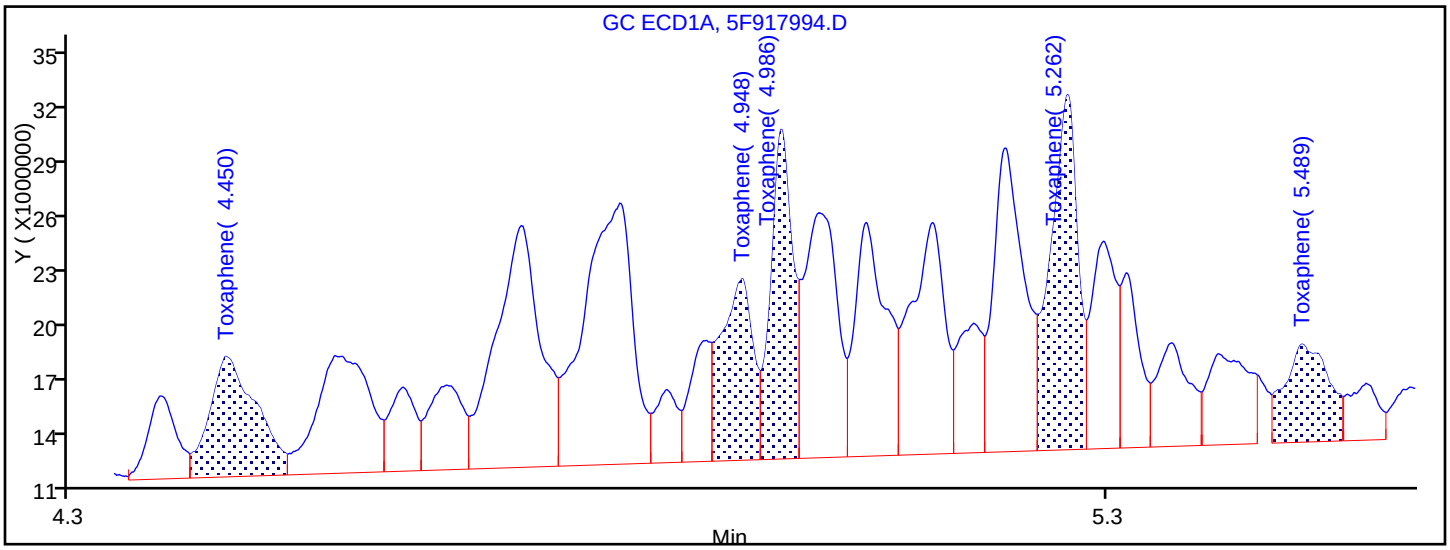
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.450	Response = 13475193
4.948	Response = 13402252
4.986	Response = 19860504
5.262	Response = 25483221
5.489	Response = 5352585



Manual Integration Results

4.450	Response = 20228630	M
4.948	Response = 20820196	M
4.986	Response = 26014985	M
5.262	Response = 34867072	M
5.489	Response = 15517481	M

Reviewer: patelji, 09-Feb-2018 11:54:01

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D
Lims ID: IC TOXL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 18:20:49 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-018
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:50:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							a
1	1.679	1.679	0.000	103132443	100.0	100.0	a
2	1.696	1.696	0.000	52572691	100.0	100.0	a
						RPD = 0.00	
22 Toxaphene							Ma
1	4.452	4.452	0.000	37969711	1000.0	944.0	M
1	4.948	4.948	0.000	35349562	1000.0	969.0	M
1	4.986	4.986	0.000	44807869	1000.0	957.1	M
1	5.263	5.263	0.000	55933793	1000.0	882.0	M
1	5.489	5.489	0.000	20379256	1000.0	798.1	M
		Average of Peak Amounts =				910.0	
2	4.566	4.566	0.000	22041475	1000.0	872.3	M
2	4.991	4.991	0.000	20804017	1000.0	881.2	M
2	5.136	5.136	0.000	20958556	1000.0	861.9	M
2	5.206	5.206	0.000	24422369	1000.0	858.1	M
2	5.266	5.266	0.000	24554870	1000.0	891.8	M
		Average of Peak Amounts =				873.1	
						RPD = 4.15	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

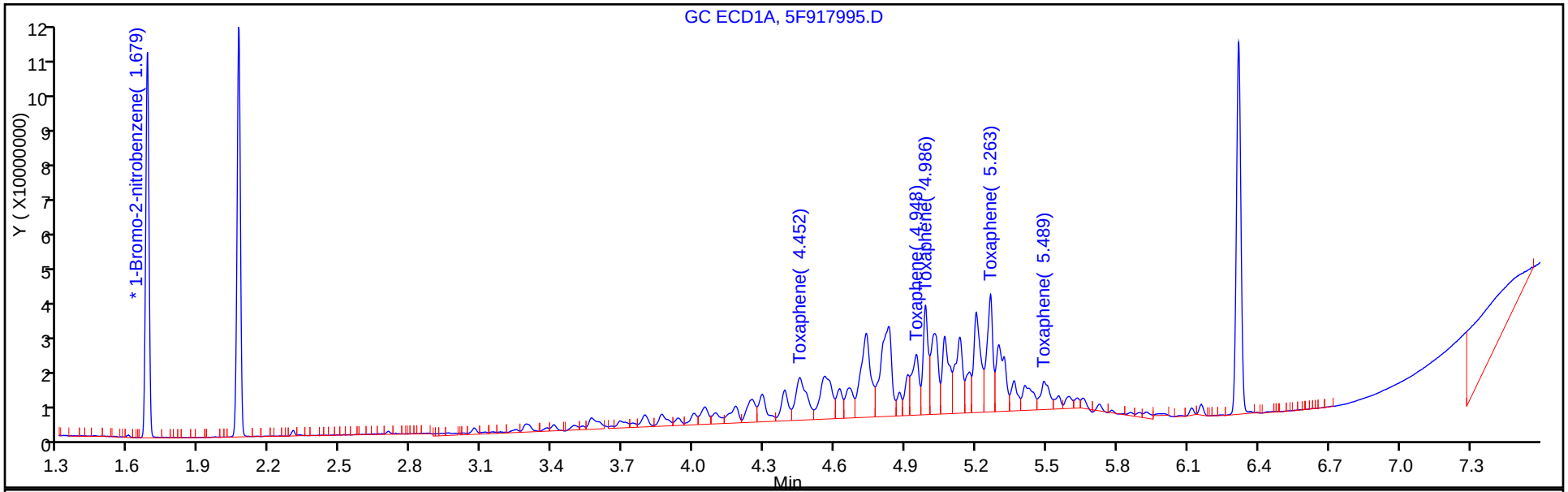
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

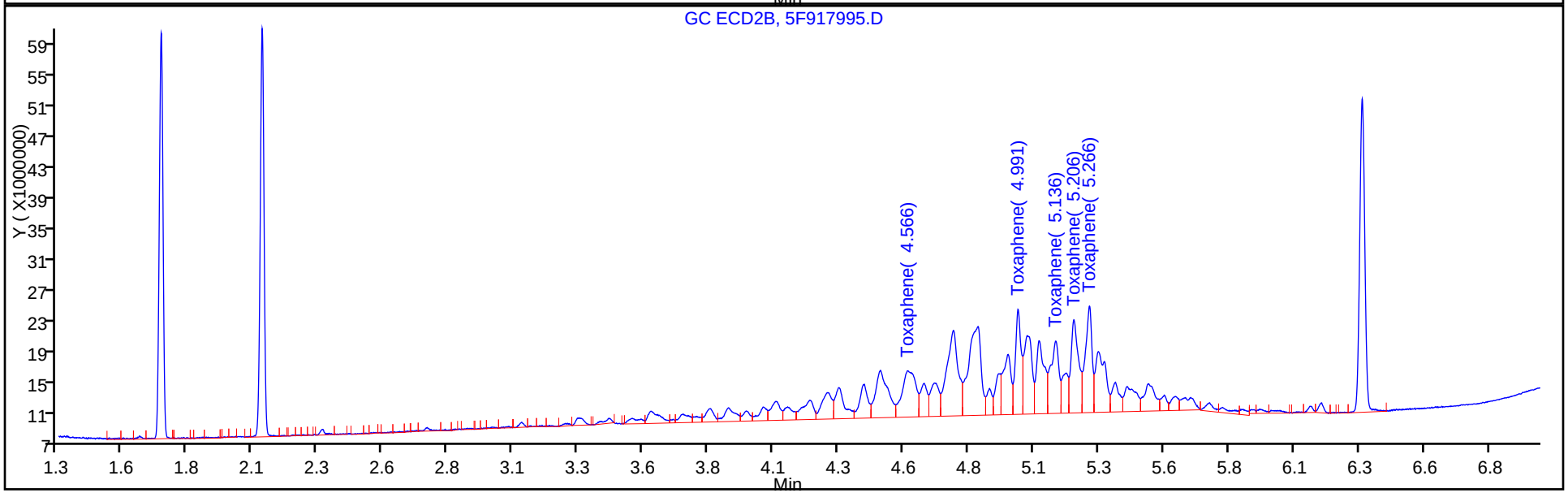
Report Date: 09-Feb-2018 12:04:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D

Injection Date:	08-Feb-2018 18:20:49	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL3			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

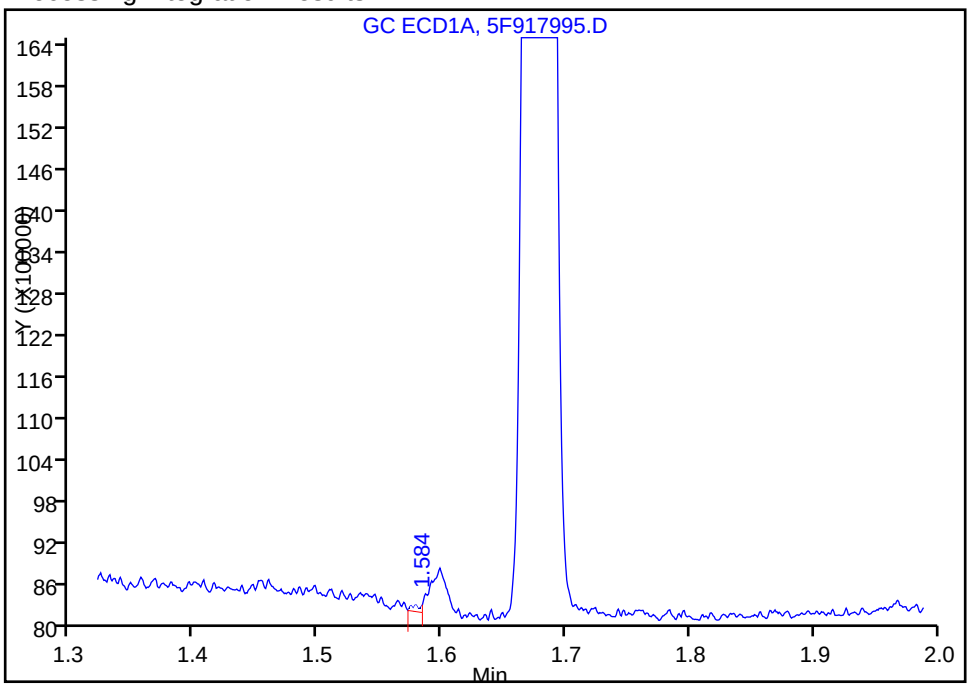
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D
Injection Date: 08-Feb-2018 18:20:49 Instrument ID: CPESTGC5
Lims ID: IC TOXL3
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

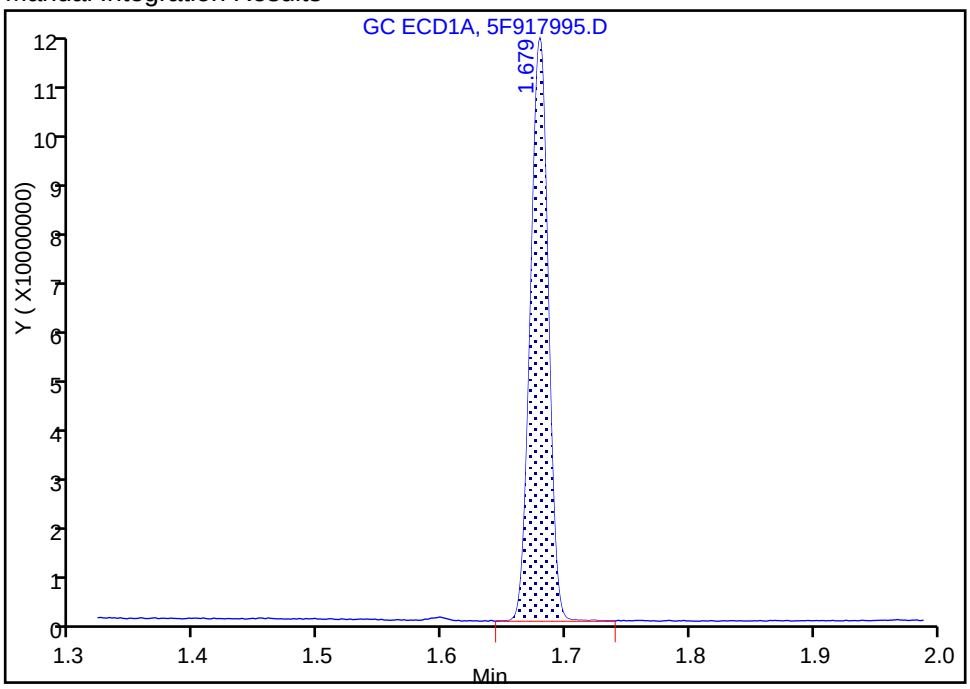
Processing Integration Results

RT: 1.58
Area: 45302
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.68
Area: 103132443
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 10:26:18
Audit Action: Assigned Compound ID Audit Reason:

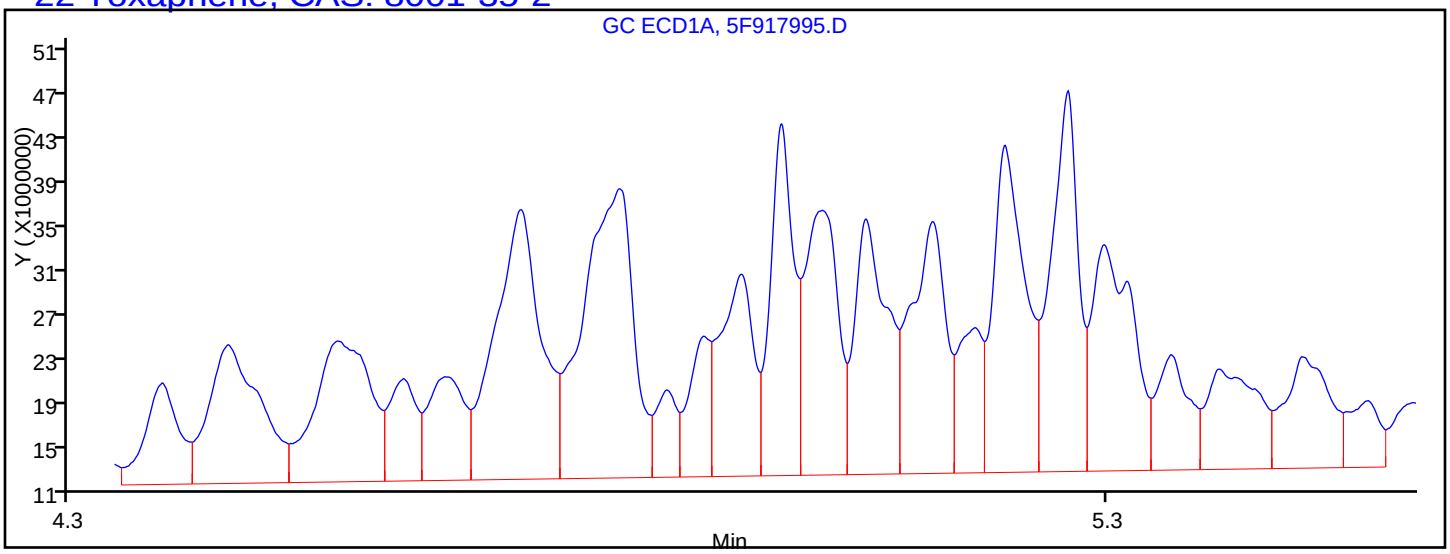
Report Date: 09-Feb-2018 12:04:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

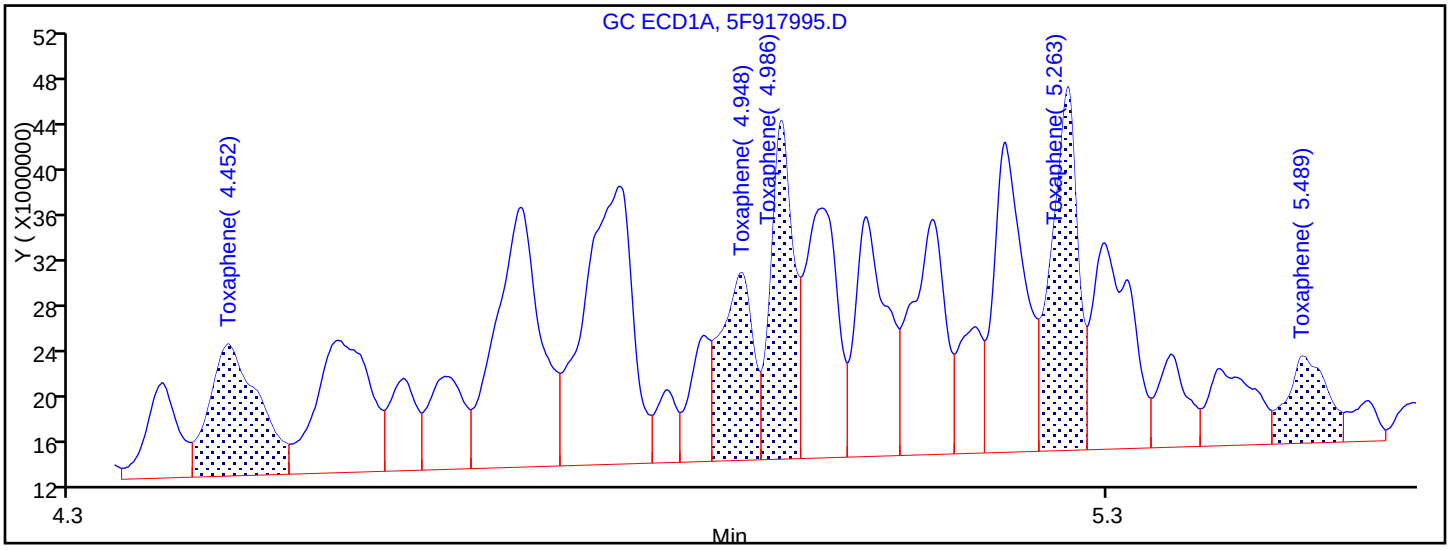
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D

Injection Date:	08-Feb-2018 18:20:49	Instrument ID:	CPESTGC5
Lims ID:	IC TOXL3		
Client ID:			
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

4.452	Response = 37969711	M
4.948	Response = 35349562	M
4.986	Response = 44807869	M
5.263	Response = 55933793	M
5.489	Response = 20379256	M

Reviewer: kapoors, 09-Feb-2018 10:35:33

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917996.D
Lims ID: IC TOXL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 18:33:39 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-019
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:05:04 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:37:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.679	0.000	105688485	100.0	100.0	
2	1.697	1.696	0.001	52091972	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.453	4.452	0.001	127153822	2500.0	3084.8	M
1	4.948	4.948	0.000	100327232	2500.0	2683.6	M
1	4.987	4.986	0.001	125096377	2500.0	2607.6	M
1	5.263	5.263	0.000	158137768	2500.0	2433.3	M
1	5.490	5.489	0.001	76232082	2500.0	2913.2	M
		Average of Peak Amounts =				2744.5	
2	4.567	4.566	0.001	67990329	2500.0	2715.7	
2	4.993	4.991	0.002	55927142	2500.0	2390.9	
2	5.137	5.136	0.001	56857401	2500.0	2359.7	
2	5.206	5.206	0.000	66874845	2500.0	2371.3	
2	5.267	5.266	0.001	66157227	2500.0	2424.9	
		Average of Peak Amounts =				2452.5	
						RPD = 11.24	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

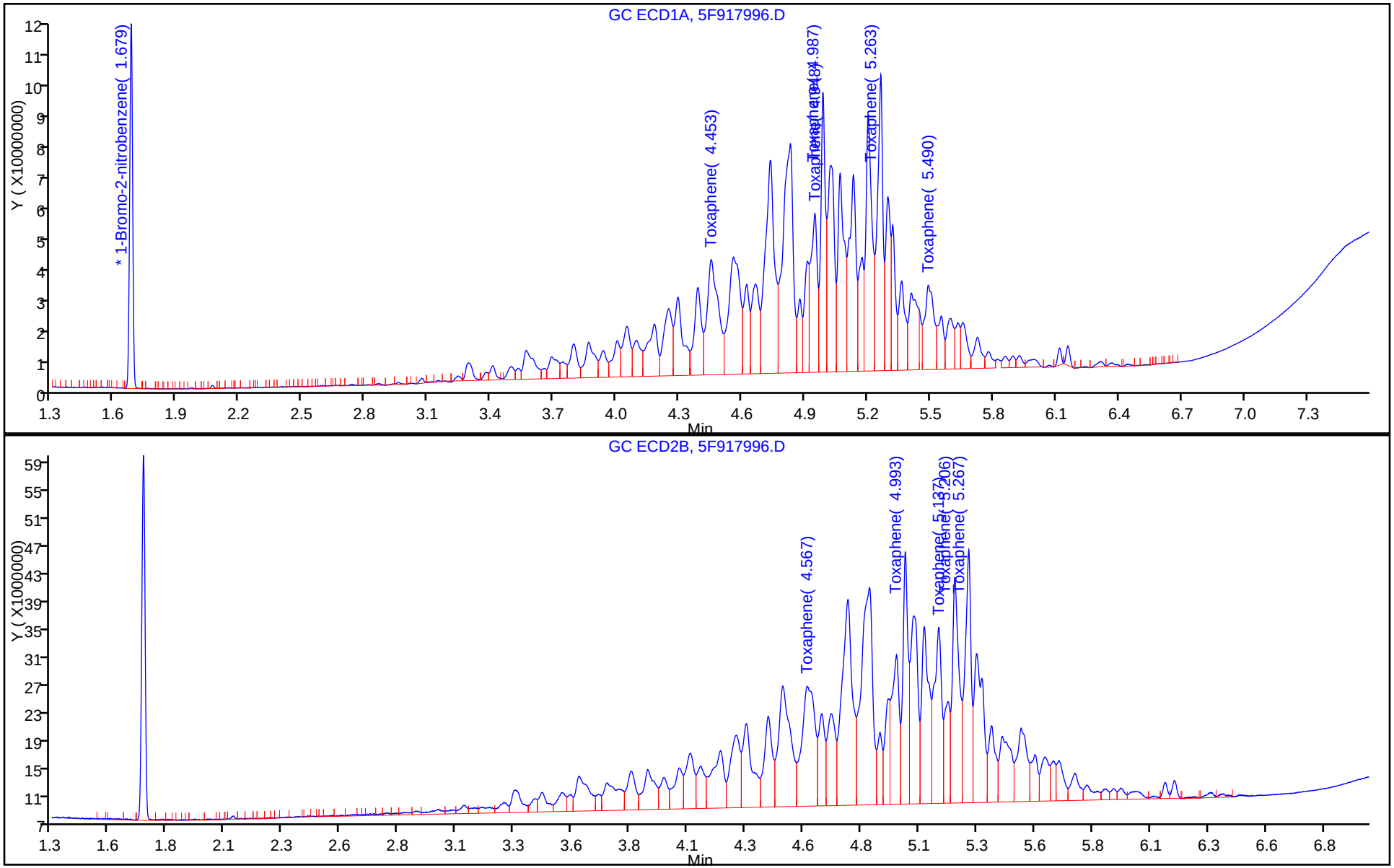
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:05:04 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917996.D

Injection Date:	08-Feb-2018 18:33:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL5			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Report Date: 09-Feb-2018 12:05:04 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917996.D

Injection Date: 08-Feb-2018 18:33:39 Instrument ID: CPESTGC5

Lims ID: IC TOXL5

Client ID:

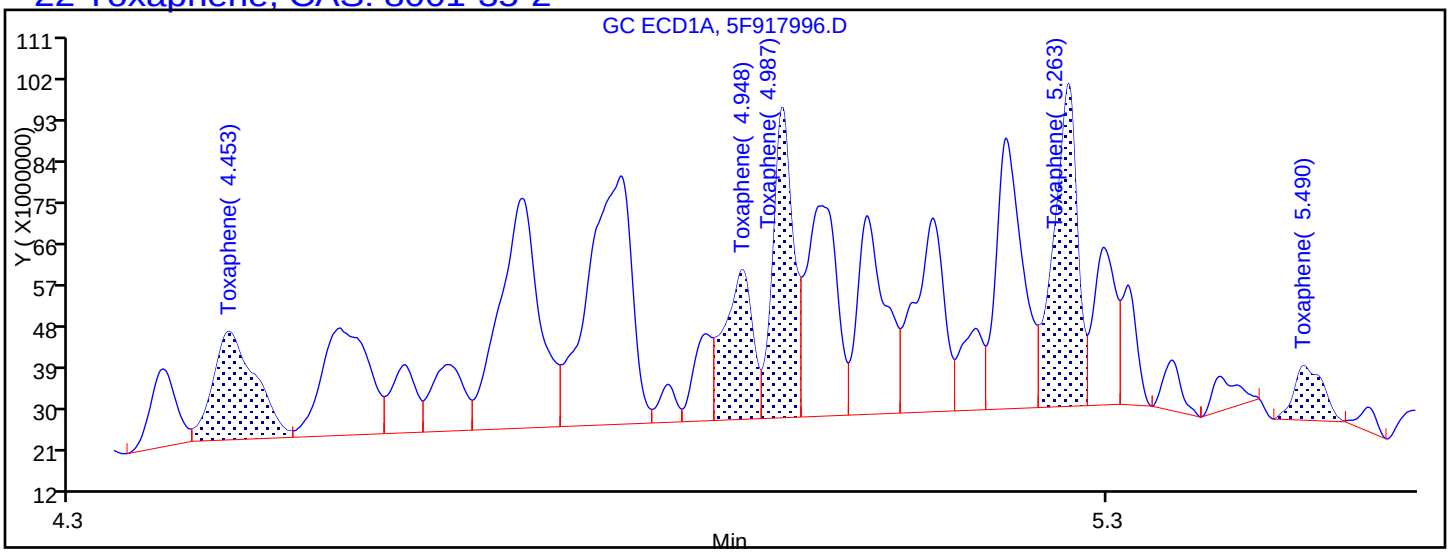
Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD

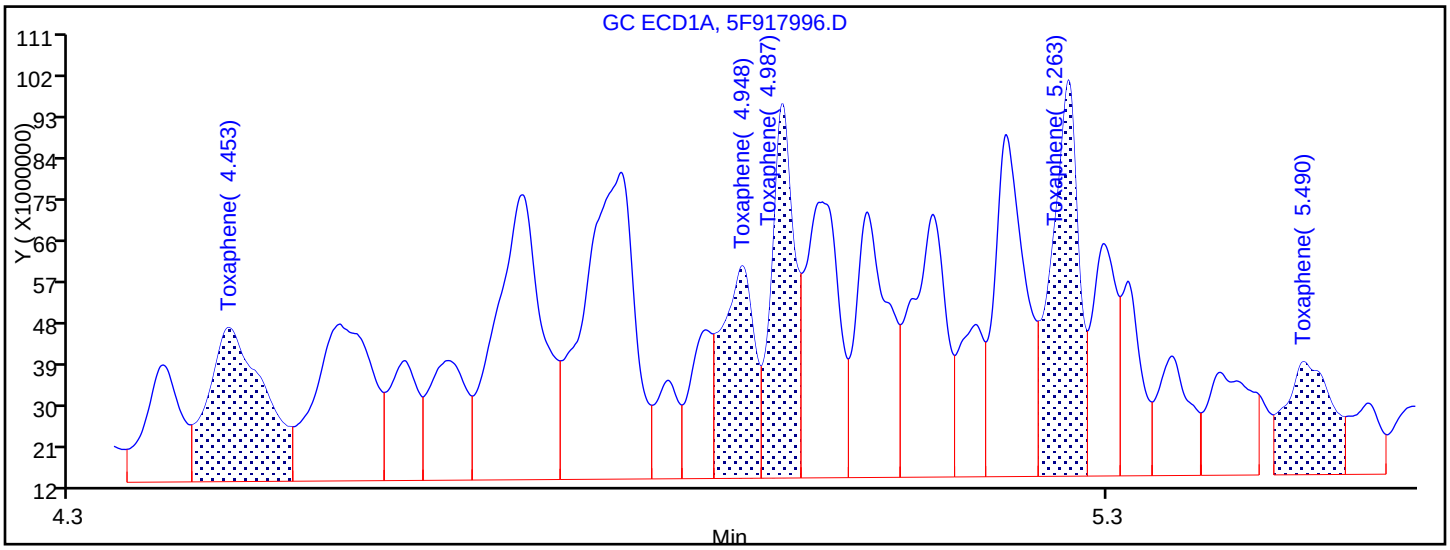
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.453	Response = 67645897
4.948	Response = 62387601
4.987	Response = 92631739
5.263	Response = 112035000
5.490	Response = 23143028



Manual Integration Results

4.453	Response = 127153822	M
4.948	Response = 100327232	M
4.987	Response = 125096377	M
5.263	Response = 158137768	M
5.490	Response = 76232082	M

Reviewer: kapoors, 09-Feb-2018 10:48:12

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D
Lims ID: IC TOXL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 18:46:29 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-020
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:05:08 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	107078076	100.0	100.0	
2	1.698	1.696	0.002	54109582	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							
1	4.455	4.452	0.003	55608459	1500.0	1331.6	
1	4.950	4.948	0.002	59395838	1500.0	1568.1	
1	4.989	4.986	0.003	73202731	1500.0	1506.1	
1	5.265	5.263	0.002	92889161	1500.0	1410.8	
1	5.492	5.489	0.003	42967936	1500.0	1620.7	
		Average of Peak Amounts =				1487.4	
2	4.573	4.566	0.007	41091563	1500.0	1580.1	
2	4.994	4.991	0.003	35375824	1500.0	1455.9	
2	5.139	5.136	0.003	35919247	1500.0	1435.1	
2	5.209	5.206	0.003	41795431	1500.0	1426.7	
2	5.269	5.266	0.003	42023579	1500.0	1482.9	
		Average of Peak Amounts =				1476.2	
						RPD = 0.76	

Reagents:

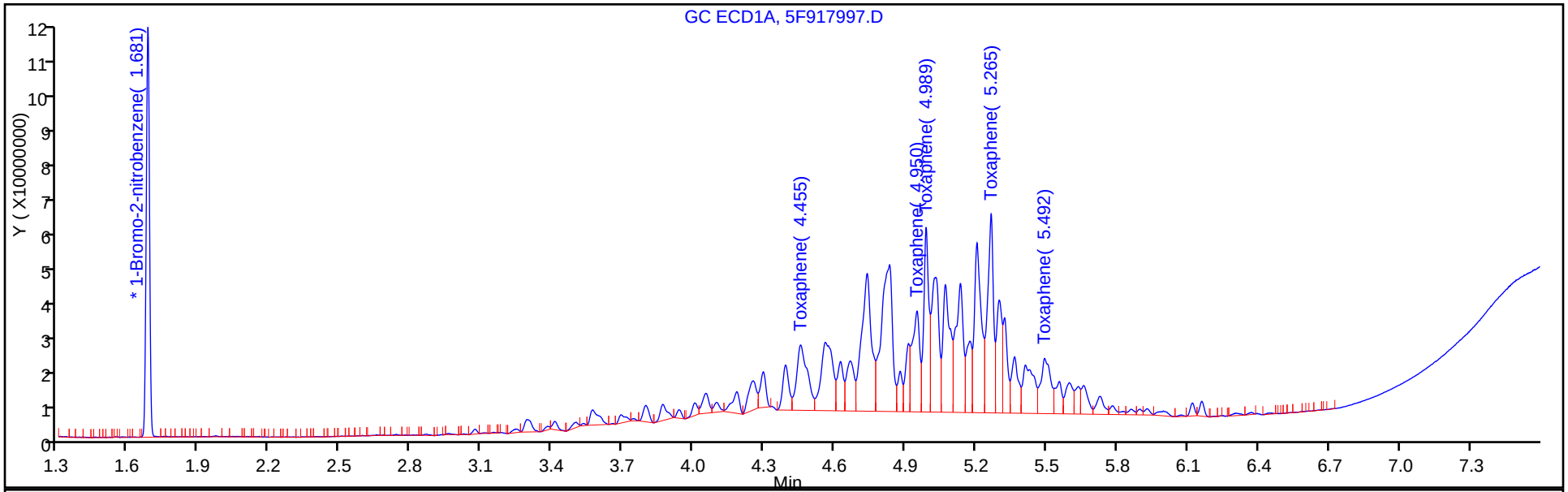
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

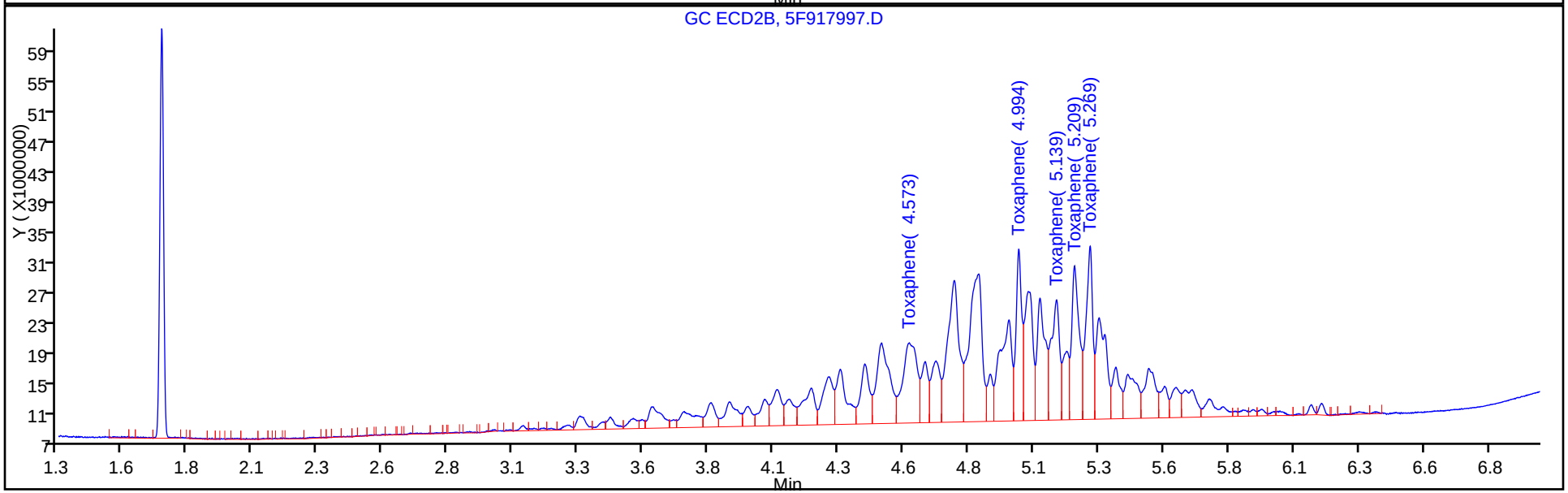
Report Date: 09-Feb-2018 12:05:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Injection Date:	08-Feb-2018 18:46:29	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL4			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 17:55 Calibration End Date: 02/08/2018 18:46 Calibration ID: 66491

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/16	5F917993.D
Level 2	IC 460-495906/17	5F917994.D
Level 3	IC 460-495906/18	5F917995.D
Level 4	IC 460-495906/20	5F917997.D
Level 5	IC 460-495906/19	5F917996.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0468	0.0488	0.0419	0.0506	0.0522	Ave		0.0481				8.3		20.0			
Toxaphene Peak 2	0.0522	0.0463	0.0396	0.0436	0.0429	Ave		0.0449				10.5		20.0			
Toxaphene Peak 3	0.0553	0.0482	0.0399	0.0443	0.0437	Ave		0.0463				12.7		20.0			
Toxaphene Peak 4	0.0640	0.0574	0.0465	0.0515	0.0514	Ave		0.0541				12.4		20.0			
Toxaphene Peak 5	0.0564	0.0562	0.0467	0.0518	0.0508	Ave		0.0524				7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 495906

SDG No.:

Instrument ID: CPESTGC5 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 17:55 Calibration End Date: 02/08/2018 18:46 Calibration ID: 66491

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-495906/16	5F917993.D
Level 2	IC 460-495906/17	5F917994.D
Level 3	IC 460-495906/18	5F917995.D
Level 4	IC 460-495906/20	5F917997.D
Level 5	IC 460-495906/19	5F917996.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	1223836	12651100	22041475	41091563	67990329	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	1364630	12001906	20804017	35375824	55927142	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	1447768	12494586	20958556	35919247	56857401	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	1674556	14888677	24422369	41795431	66874845	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	1474548	14585276	24554870	42023579	66157227	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D
Lims ID: IC TOXL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 17:55:07 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-016
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:47 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	108032168	100.0	100.0	
2	1.697	1.696	0.001	52331343	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							Ma
1	4.450	4.452	-0.002	2022741	50.0	48.0	M
1	4.951	4.948	0.003	1540977	50.0	40.3	M
1	4.989	4.986	0.003	2253847	50.0	46.0	M
1	5.265	5.263	0.002	3783138	50.0	56.9	M
1	5.492	5.489	0.003	1041683	50.0	38.9	M
		Average of Peak Amounts =				46.0	
2	4.586	4.566	0.020	1223836	50.0	48.7	M
2	4.994	4.991	0.003	1364630	50.0	58.1	M
2	5.140	5.136	0.004	1447768	50.0	59.8	M
2	5.206	5.206	0.000	1674556	50.0	59.1	M
2	5.266	5.266	0.000	1474548	50.0	53.8	M
		Average of Peak Amounts =				55.9	
						RPD = 19.33	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

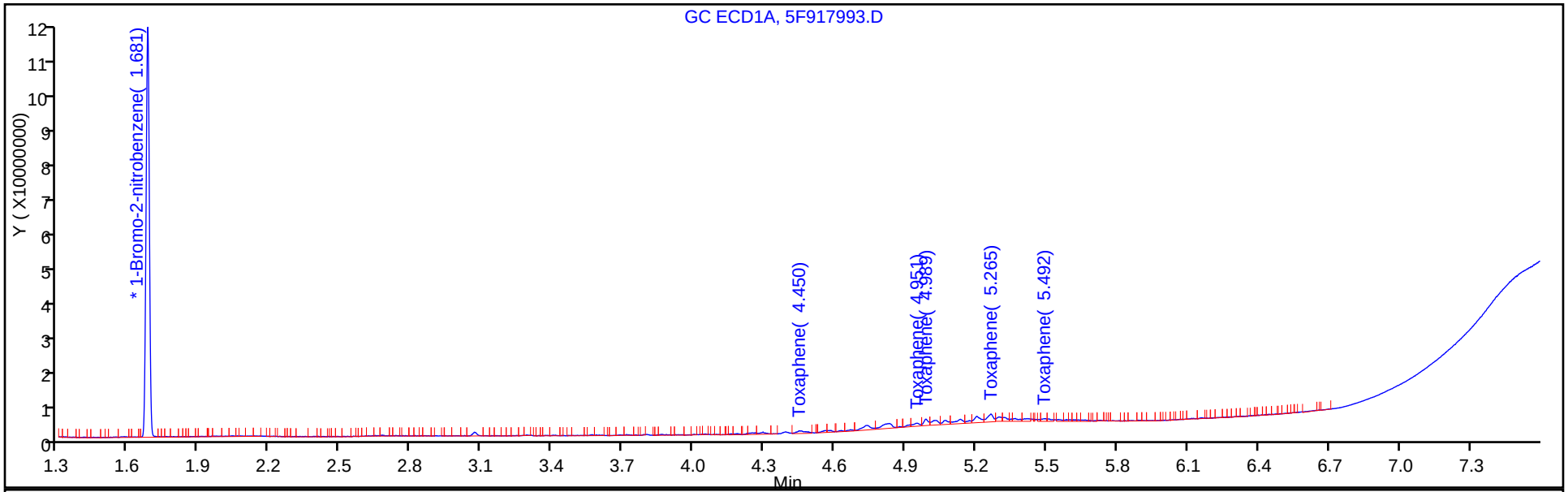
SGTOX608LVIL1_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

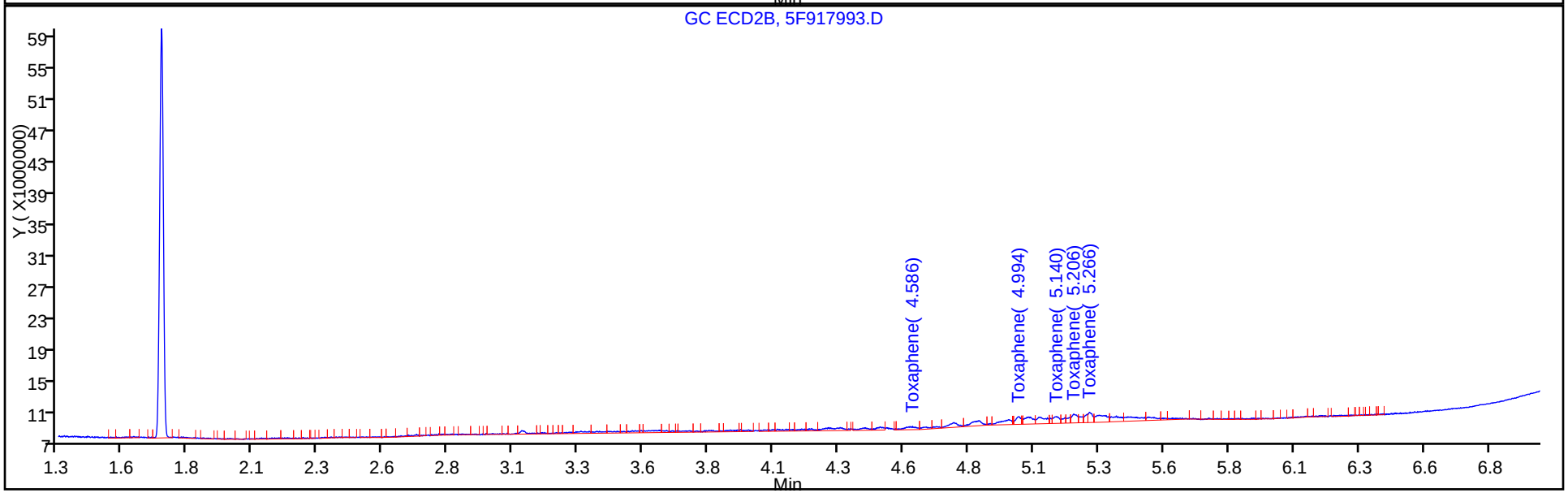
Report Date: 09-Feb-2018 12:04:49 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D

Injection Date:	08-Feb-2018 17:55:07	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL1			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





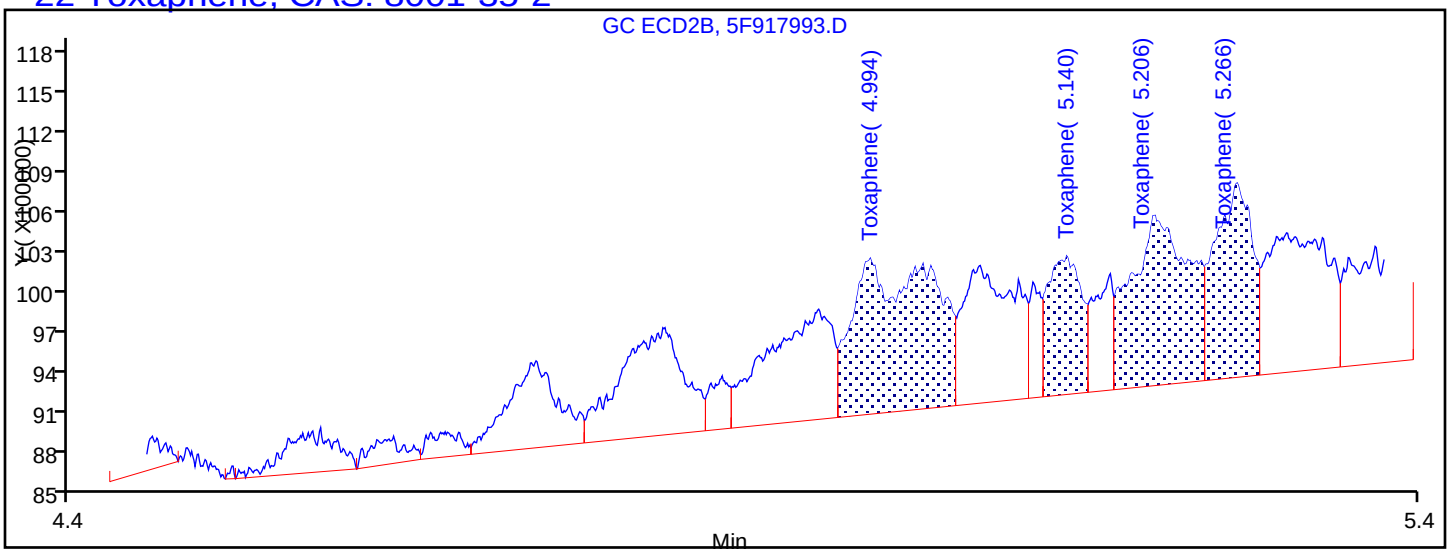
Report Date: 09-Feb-2018 12:04:49 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917993.D

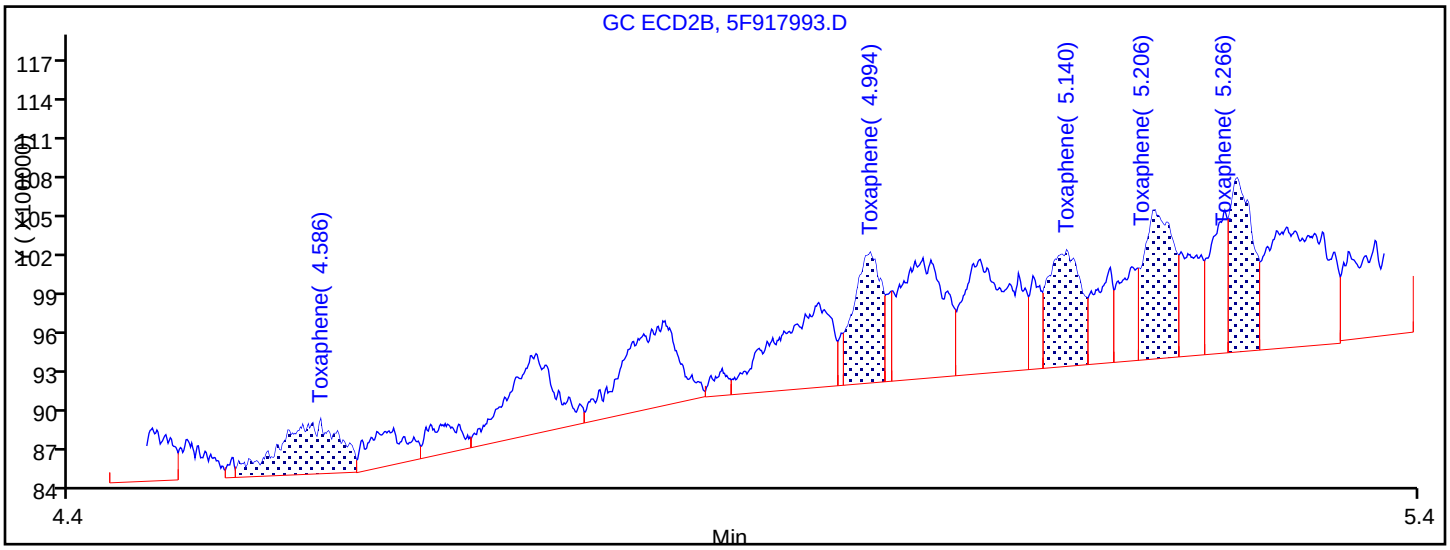
Injection Date:	08-Feb-2018 17:55:07	Instrument ID:	CPESTGC5		
Lims ID:	IC TOXL1				
Client ID:					
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.566	Response = 0
4.994	Response = 4661988
5.140	Response = 1755714
5.206	Response = 3816291
5.266	Response = 2751715



Manual Integration Results

4.586	Response = 1223836	M
4.994	Response = 1364630	M
5.140	Response = 1447768	M
5.206	Response = 1674556	M
5.266	Response = 1474548	M

Reviewer: patelji, 09-Feb-2018 11:56:35

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D
Lims ID: IC TOXL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 18:07:55 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-017
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:53 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:47:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.680	1.679	0.001	106471339	100.0	100.0	
2	1.697	1.696	0.001	51879720	100.0	100.0	M
						RPD = 0.00	
22 Toxaphene							M
1	4.450	4.452	-0.002	20228630	500.0	487.1	M
1	4.948	4.948	0.000	20820196	500.0	552.8	M
1	4.986	4.986	0.000	26014985	500.0	538.3	M
1	5.262	5.263	-0.001	34867072	500.0	532.6	M
1	5.489	5.489	0.000	15517481	500.0	588.6	M
		Average of Peak Amounts =				539.9	
2	4.566	4.566	0.000	12651100	500.0	507.4	M
2	4.991	4.991	0.000	12001906	500.0	515.2	M
2	5.136	5.136	0.000	12494586	500.0	520.7	M
2	5.205	5.206	-0.001	14888677	500.0	530.1	M
2	5.265	5.266	-0.001	14585276	500.0	536.8	M
		Average of Peak Amounts =				522.0	
						RPD = 3.36	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

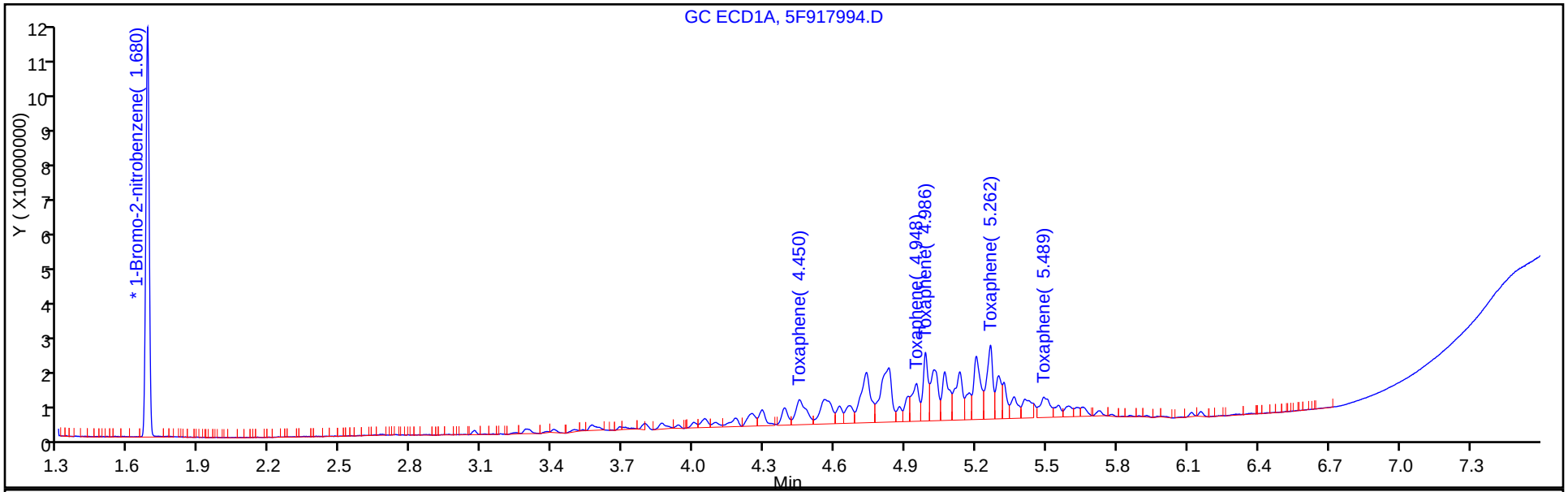
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

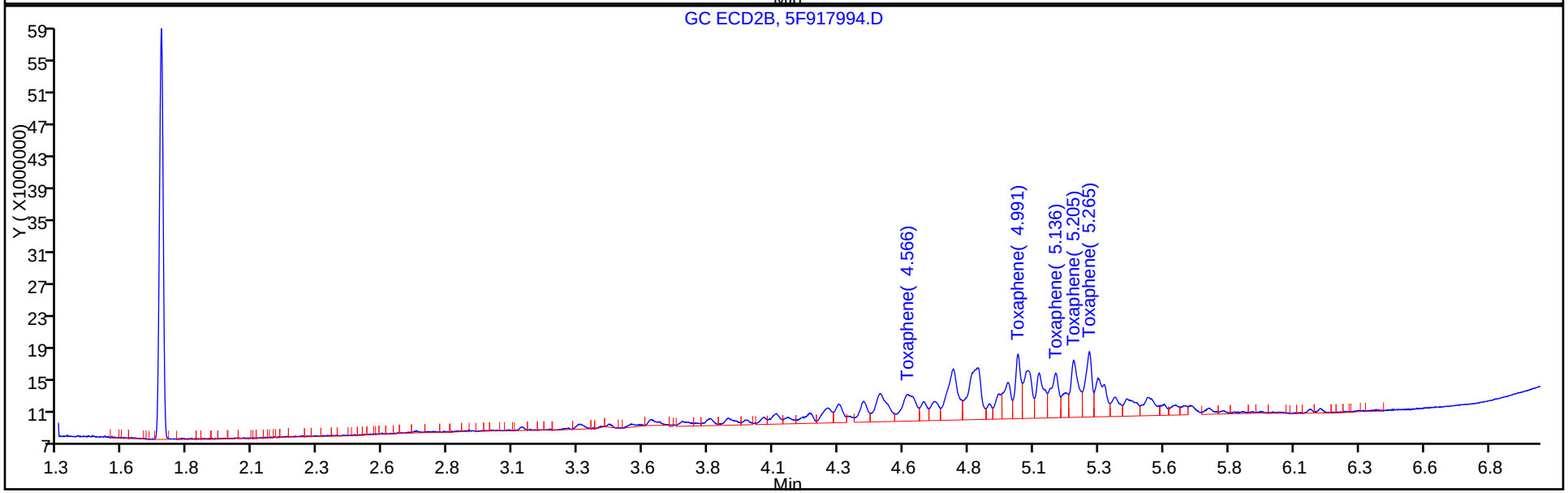
Report Date: 09-Feb-2018 12:04:54 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D

Injection Date:	08-Feb-2018 18:07:55	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

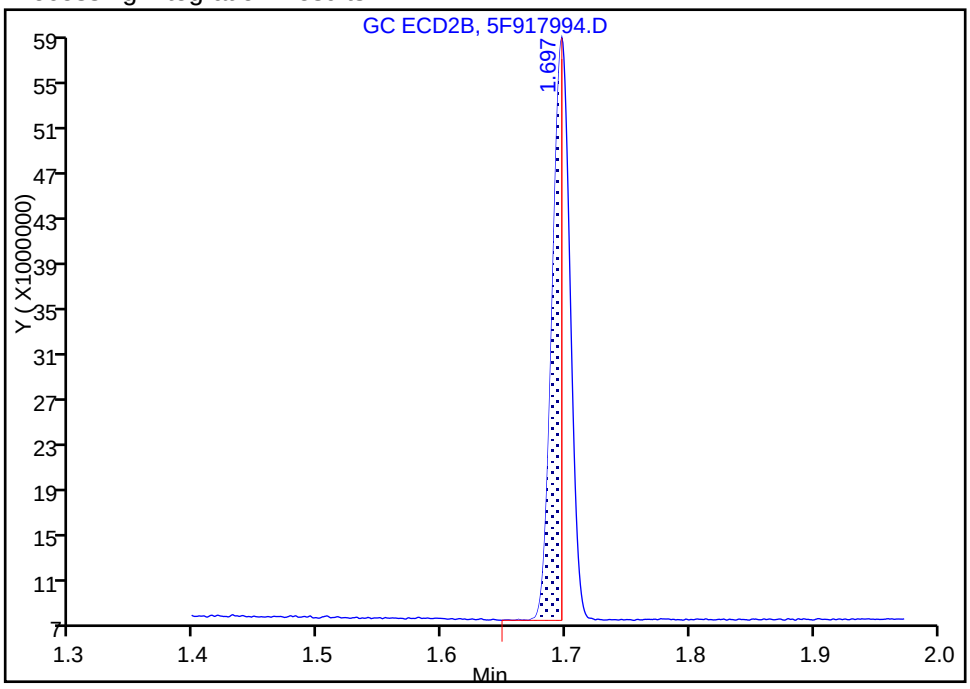
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D
Injection Date: 08-Feb-2018 18:07:55 Instrument ID: CPESTGC5
Lims ID: IC TOXL2
Client ID:
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

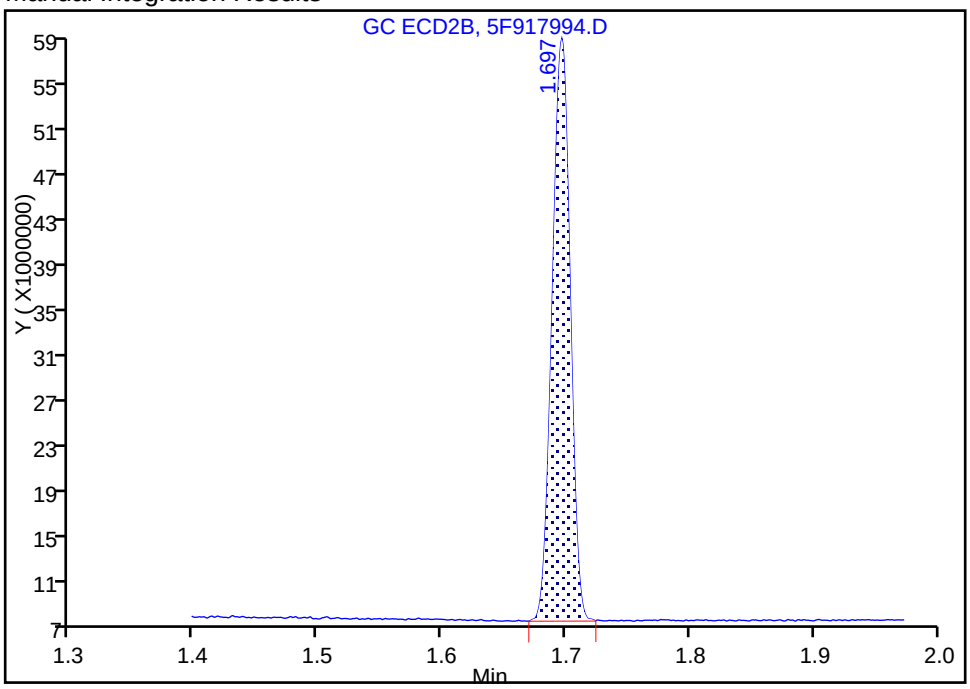
Processing Integration Results

RT: 1.70
Area: 27244627
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 51879720
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 10:47:43
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 09-Feb-2018 12:04:54 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917994.D

Injection Date: 08-Feb-2018 18:07:55 Instrument ID: CPESTGC5

Lims ID: IC TOXL2

Client ID:

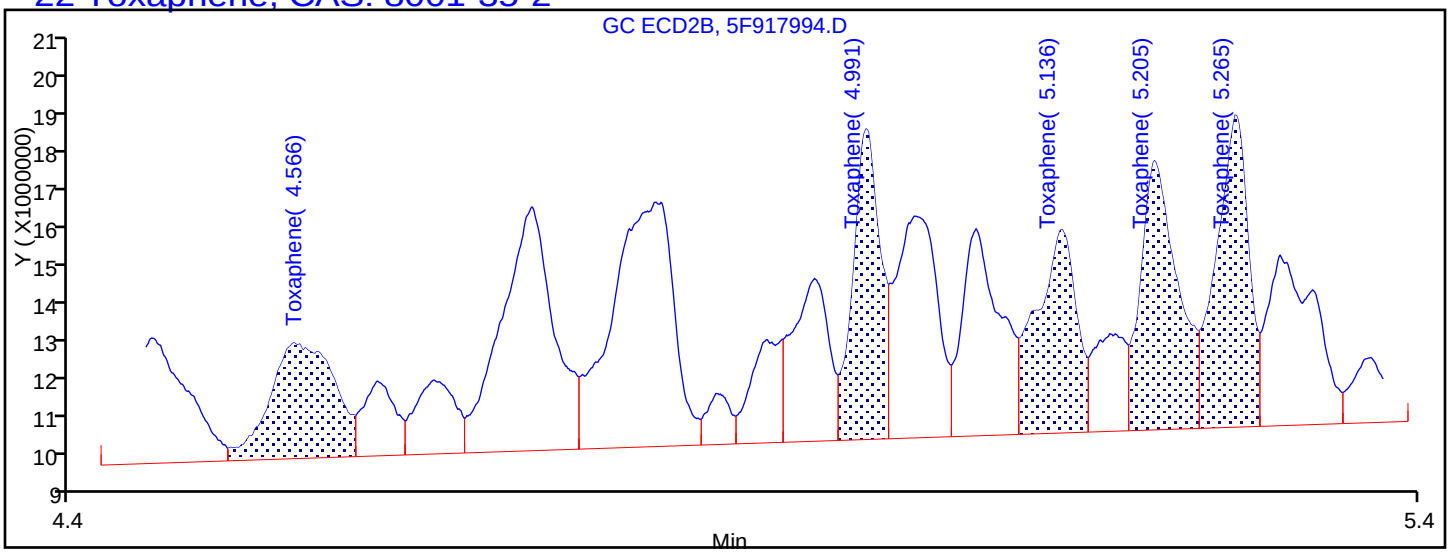
Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD

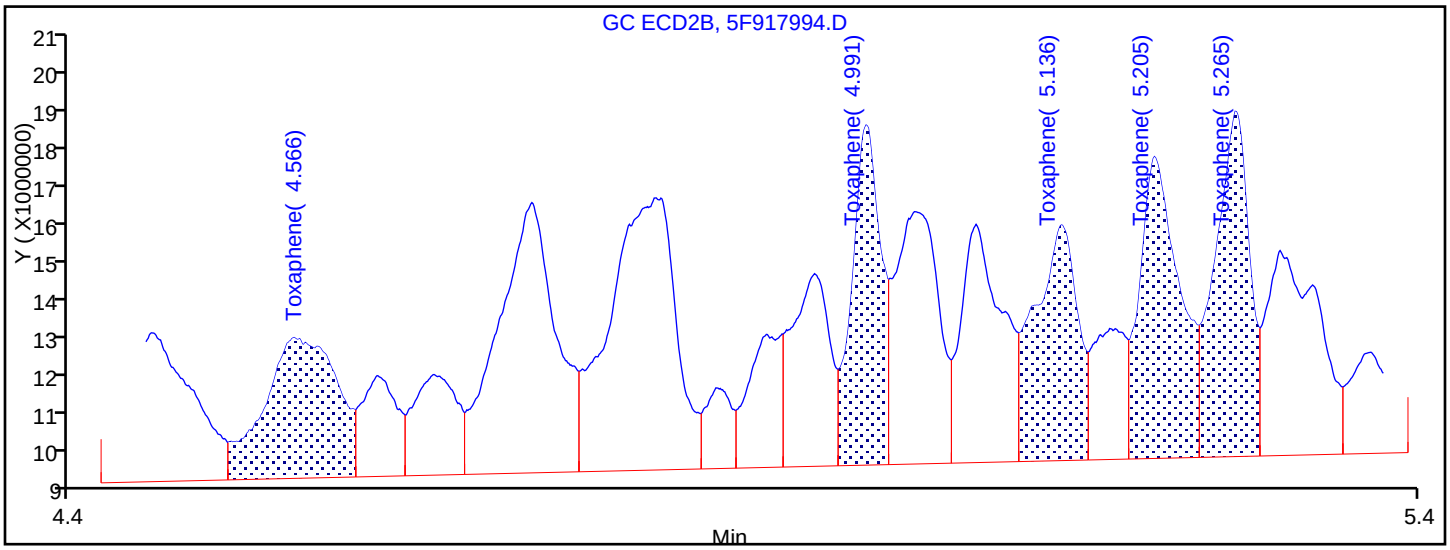
Column: Detector GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.566	Response = 9157294
4.991	Response = 10314937
5.136	Response = 10029220
5.205	Response = 12300226
5.265	Response = 12324191



Manual Integration Results

4.566	Response = 12651100	M
4.991	Response = 12001906	M
5.136	Response = 12494586	M
5.205	Response = 14888677	M
5.265	Response = 14585276	M

Reviewer: patelji, 09-Feb-2018 11:56:50

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D
Lims ID: IC TOXL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Feb-2018 18:20:49 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-018
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:04:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 08:50:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							a
1	1.679	1.679	0.000	103132443	100.0	100.0	a
2	1.696	1.696	0.000	52572691	100.0	100.0	a
						RPD = 0.00	
22 Toxaphene							Ma
1	4.452	4.452	0.000	37969711	1000.0	944.0	M
1	4.948	4.948	0.000	35349562	1000.0	969.0	M
1	4.986	4.986	0.000	44807869	1000.0	957.1	M
1	5.263	5.263	0.000	55933793	1000.0	882.0	M
1	5.489	5.489	0.000	20379256	1000.0	798.1	M
		Average of Peak Amounts =				910.0	
2	4.566	4.566	0.000	22041475	1000.0	872.3	M
2	4.991	4.991	0.000	20804017	1000.0	881.2	M
2	5.136	5.136	0.000	20958556	1000.0	861.9	M
2	5.206	5.206	0.000	24422369	1000.0	858.1	M
2	5.266	5.266	0.000	24554870	1000.0	891.8	M
		Average of Peak Amounts =				873.1	
						RPD = 4.15	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

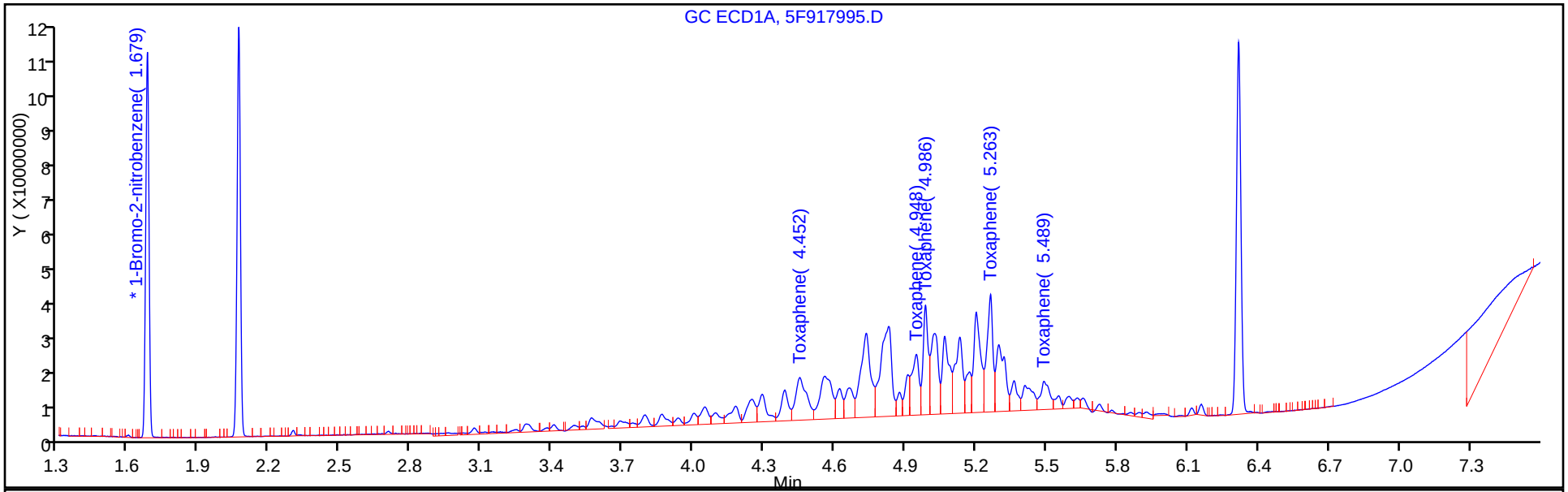
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

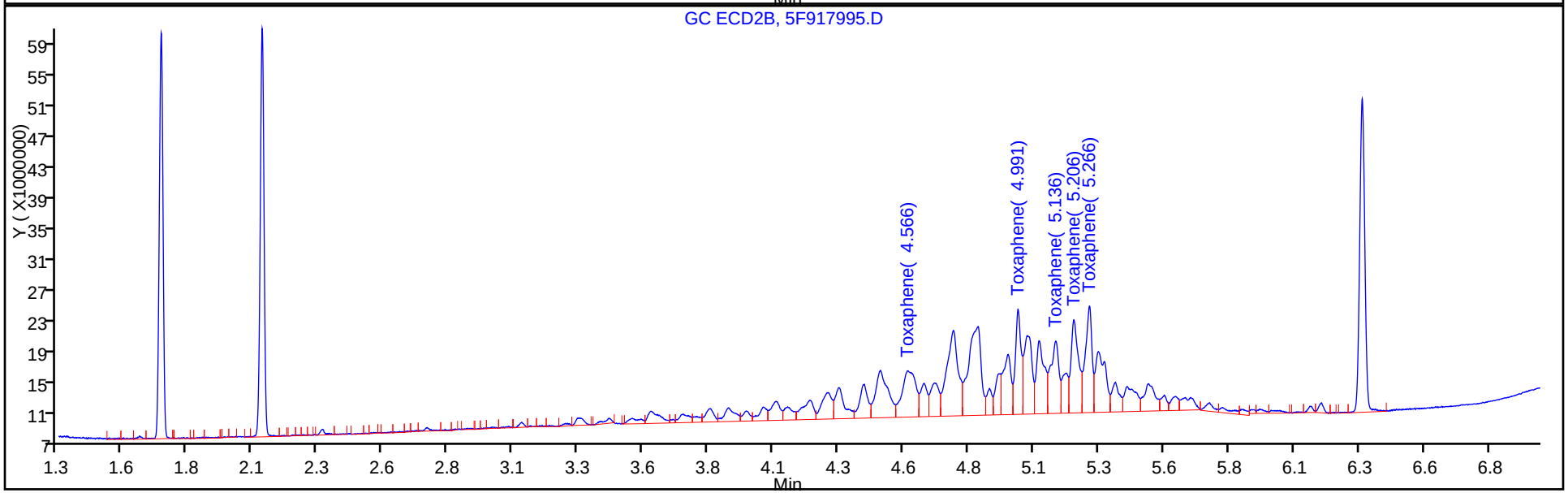
Report Date: 09-Feb-2018 12:04:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D

Injection Date:	08-Feb-2018 18:20:49	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL3			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

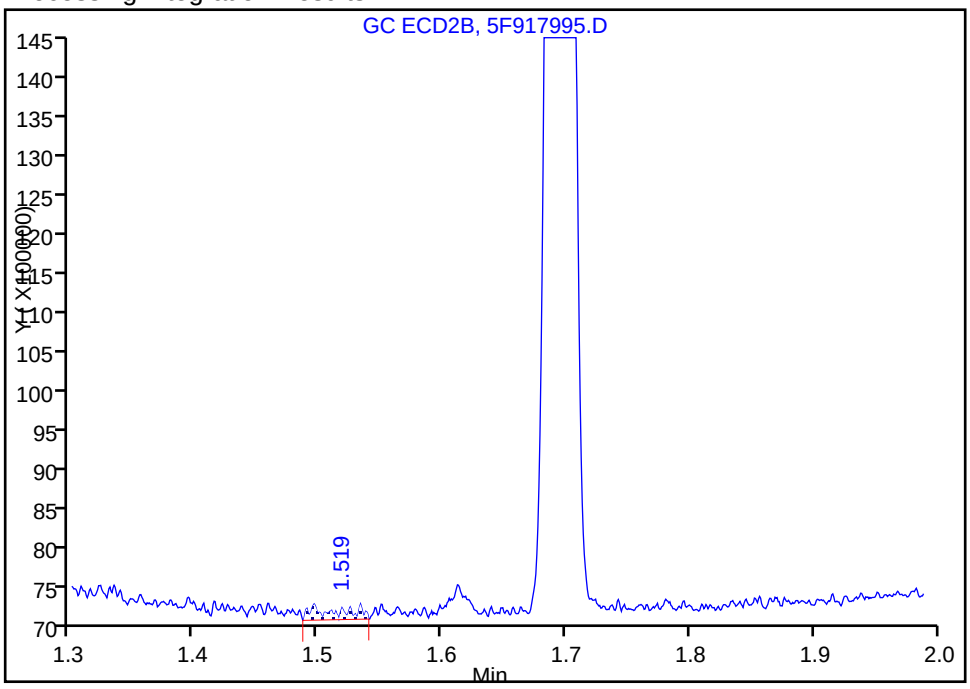
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D		
Injection Date:	08-Feb-2018 18:20:49	Instrument ID:	CPESTGC5
Lims ID:	IC TOXL3		
Client ID:			
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

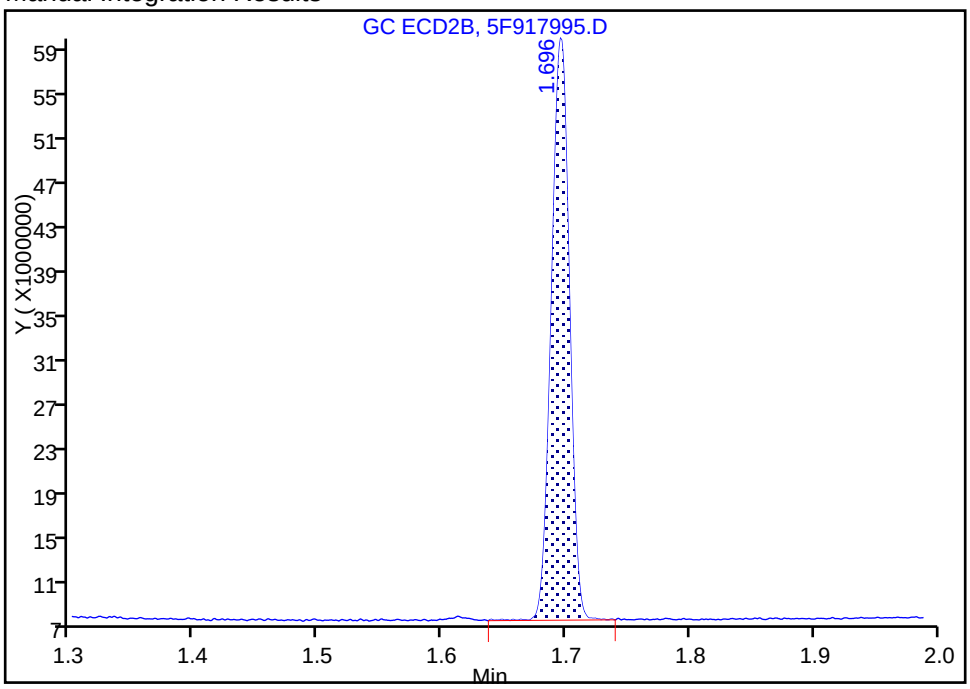
Processing Integration Results

RT: 1.52
Area: 297701
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 52572691
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 09-Feb-2018 10:26:26
Audit Action: Assigned Compound ID Audit Reason:

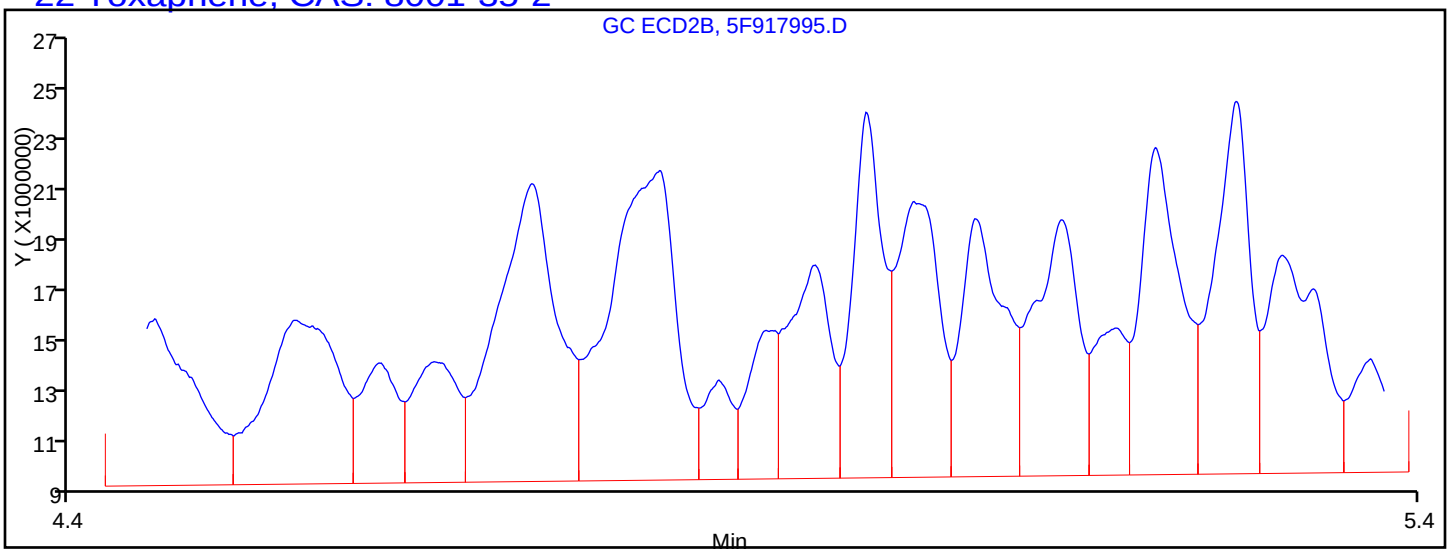
Report Date: 09-Feb-2018 12:04:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

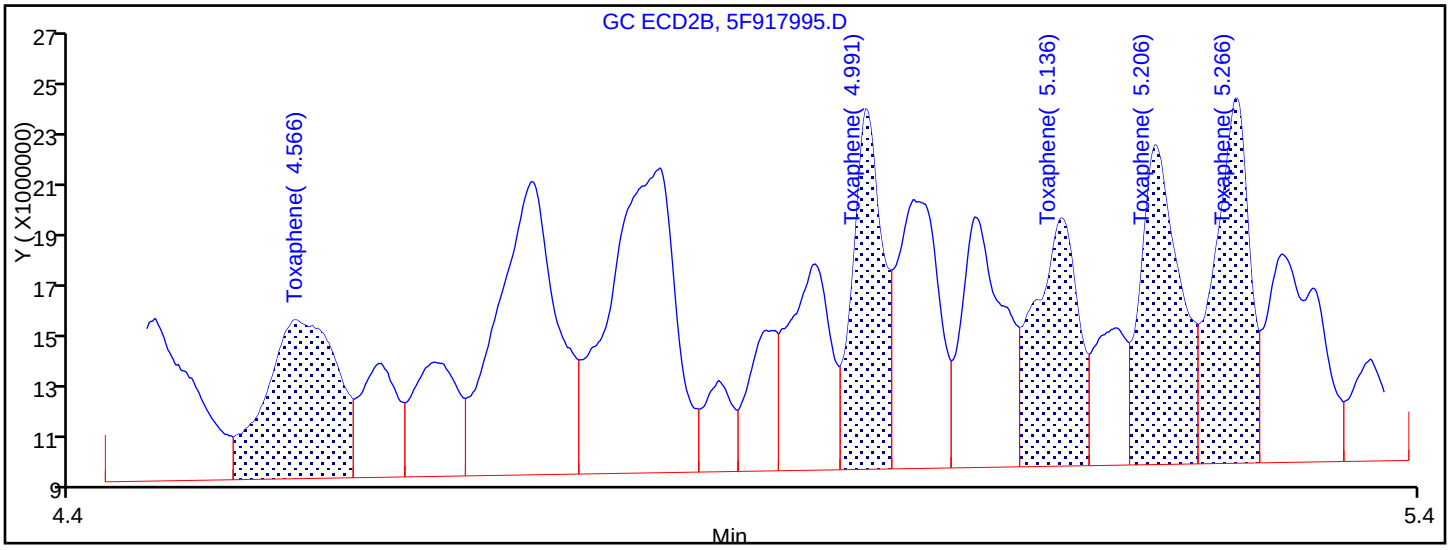
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917995.D

Injection Date:	08-Feb-2018 18:20:49	Instrument ID:	CPESTGC5
Lims ID:	IC TOXL3		
Client ID:			
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

4.566	Response = 22041475	M
4.991	Response = 20804017	M
5.136	Response = 20958556	M
5.206	Response = 24422369	M
5.266	Response = 24554870	M

Reviewer: kapoors, 09-Feb-2018 10:35:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917996.D
Lims ID: IC TOXL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 18:33:39 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-019
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:05:04 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 10:37:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.679	0.000	105688485	100.0	100.0	
2	1.697	1.696	0.001	52091972	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.453	4.452	0.001	127153822	2500.0	3084.8	M
1	4.948	4.948	0.000	100327232	2500.0	2683.6	M
1	4.987	4.986	0.001	125096377	2500.0	2607.6	M
1	5.263	5.263	0.000	158137768	2500.0	2433.3	M
1	5.490	5.489	0.001	76232082	2500.0	2913.2	M
		Average of Peak Amounts =				2744.5	
2	4.567	4.566	0.001	67990329	2500.0	2715.7	
2	4.993	4.991	0.002	55927142	2500.0	2390.9	
2	5.137	5.136	0.001	56857401	2500.0	2359.7	
2	5.206	5.206	0.000	66874845	2500.0	2371.3	
2	5.267	5.266	0.001	66157227	2500.0	2424.9	
		Average of Peak Amounts =				2452.5	
						RPD = 11.24	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

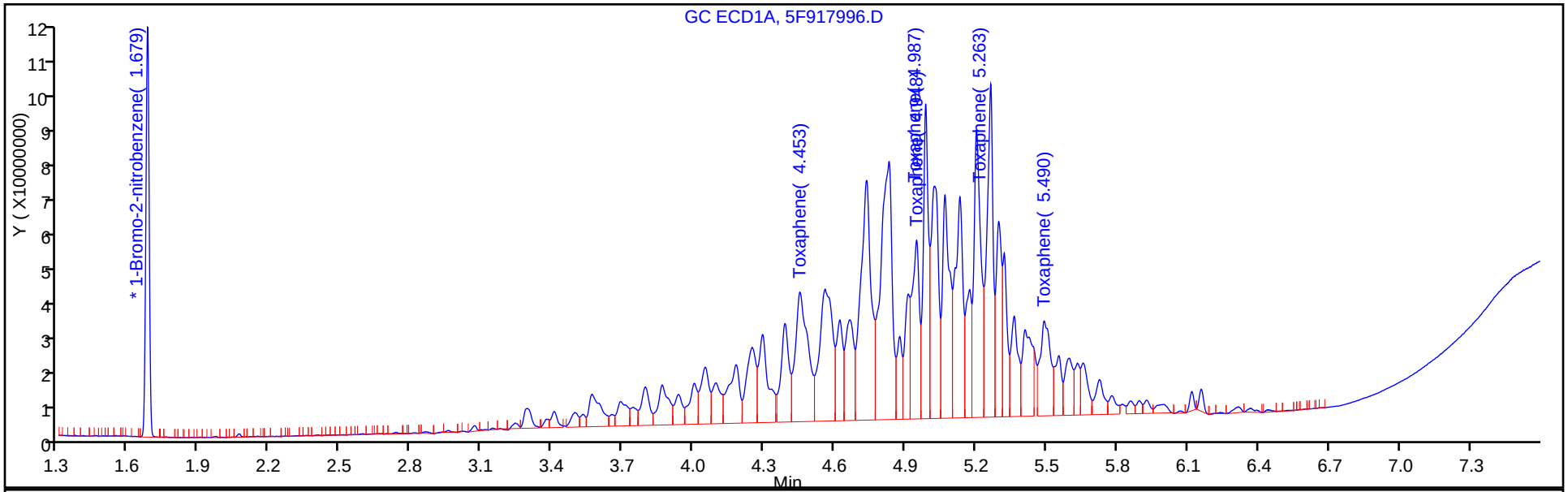
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

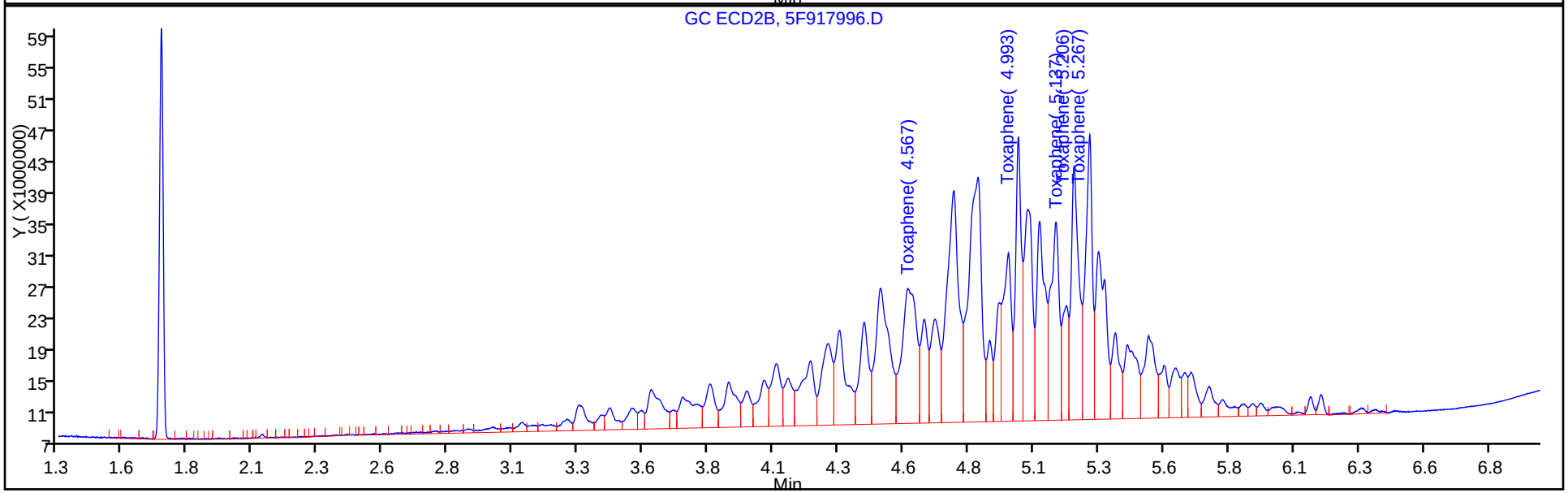
Report Date: 09-Feb-2018 12:05:05 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917996.D

Injection Date:	08-Feb-2018 18:33:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL5			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D
Lims ID: IC TOXL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 18:46:29 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-020
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:05:08 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.679	0.002	107078076	100.0	100.0	
2	1.698	1.696	0.002	54109582	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							
1	4.455	4.452	0.003	55608459	1500.0	1331.6	
1	4.950	4.948	0.002	59395838	1500.0	1568.1	
1	4.989	4.986	0.003	73202731	1500.0	1506.1	
1	5.265	5.263	0.002	92889161	1500.0	1410.8	
1	5.492	5.489	0.003	42967936	1500.0	1620.7	
		Average of Peak Amounts =				1487.4	
2	4.573	4.566	0.007	41091563	1500.0	1580.1	
2	4.994	4.991	0.003	35375824	1500.0	1455.9	
2	5.139	5.136	0.003	35919247	1500.0	1435.1	
2	5.209	5.206	0.003	41795431	1500.0	1426.7	
2	5.269	5.266	0.003	42023579	1500.0	1482.9	
		Average of Peak Amounts =				1476.2	
						RPD = 0.76	

Reagents:

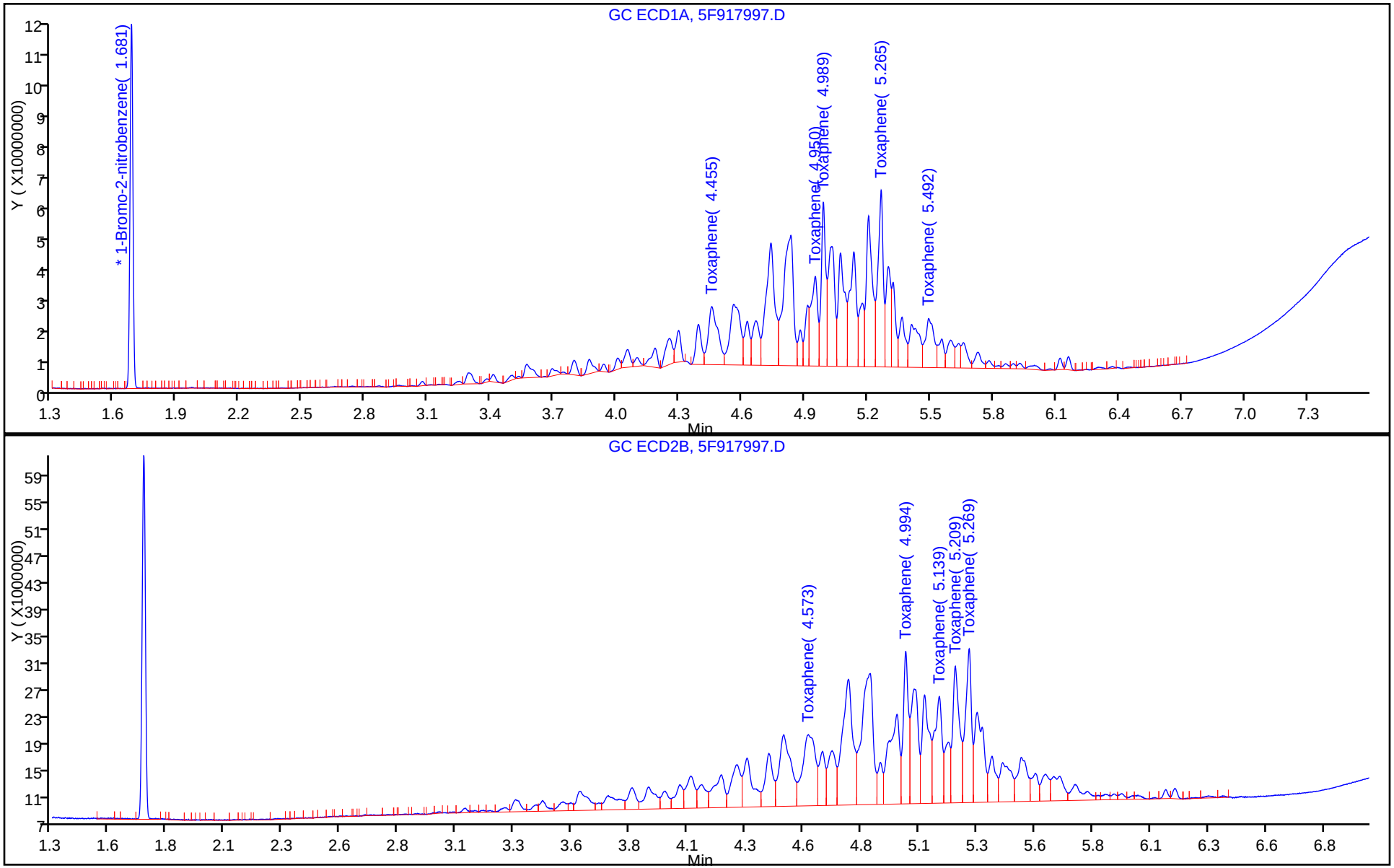
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:05:09 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Injection Date:	08-Feb-2018 18:46:29	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	IC TOXL4			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (2): PEM 460-505044/2 Instrument ID (2): CPESTGC5

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 03/21/2018 07:10

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	3.97	100.0
Endrin	4.46	100.0
4,4'-DDD	4.51	100.0
4,4'-DDT	4.77	100.0
Endrin aldehyde	5.00	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): PEM 460-505044/2 Instrument ID (1): CPESTGC5

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 03/21/2018 07:10

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	3.88	100.0
Endrin	4.47	100.0
4,4'-DDD	4.52	100.0
4,4'-DDT	4.78	100.0
Endrin aldehyde	5.00	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (2): CCVIS 460-505044/3 Instrument ID (2): CPESTGC5

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 03/21/2018 07:23

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	2.04	100.00
alpha-BHC	2.37	100.0
gamma-BHC (Lindane)	2.56	100.0
beta-BHC	2.61	100.0
delta-BHC	2.73	100.0
Heptachlor	2.87	100.0
Aldrin	3.10	100.0
Heptachlor epoxide	3.59	100.0
Endosulfan I	3.88	99.70
4,4'-DDE	3.97	100.00
Dieldrin	4.22	100.00
Endrin	4.46	100.0
4,4'-DDD	4.51	100.0
Endosulfan II	4.68	100.0
4,4'-DDT	4.77	100.0
Endrin aldehyde	5.00	100.0
Endosulfan sulfate	5.11	98.40
Methoxychlor	5.21	98.80
Endrin ketone	5.46	100.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505044/3 Instrument ID (1): CPESTGC5

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 03/21/2018 07:23

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	2.05	100.00
alpha-BHC	2.38	100.0
gamma-BHC (Lindane)	2.57	100.0
beta-BHC	2.62	100.0
delta-BHC	2.74	100.0
Heptachlor	2.89	100.0
Aldrin	3.11	100.0
Heptachlor epoxide	3.59	100.0
4,4'-DDE	3.88	99.60
Endosulfan I	3.97	100.00
Dieldrin	4.22	100.00
Endrin	4.47	100.0
4,4'-DDD	4.52	100.0
Endosulfan II	4.69	100.0
4,4'-DDT	4.78	100.0
Endrin aldehyde	5.00	100.0
Methoxychlor	5.11	98.60
Endosulfan sulfate	5.28	99.40
Endrin ketone	5.45	100.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (2): PEM 460-505161/2 Instrument ID (2): CPESTGC4

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 03/22/2018 09:17

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	4.36	100.0
Endrin	4.84	100.0
4,4'-DDD	4.92	100.0
4,4'-DDT	5.14	100.0
Endrin aldehyde	5.23	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): PEM 460-505161/2 Instrument ID (1): CPESTGC4

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 03/22/2018 09:17

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	3.32	100.0
Endrin	3.79	100.0
4,4'-DDD	3.86	100.0
4,4'-DDT	4.16	100.0
Endrin aldehyde	4.46	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (2): CCVIS 460-505161/3 Instrument ID (2): CPESTGC4

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 03/22/2018 09:30

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	2.06	100.00
alpha-BHC	2.45	100.0
gamma-BHC (Lindane)	2.69	100.0
beta-BHC	2.73	100.0
delta-BHC	2.96	100.0
Heptachlor	3.02	100.0
Aldrin	3.29	100.0
Heptachlor epoxide	3.82	100.0
Endosulfan I	4.25	100.00
4,4'-DDE	4.35	100.00
Dieldrin	4.55	100.00
Endrin	4.84	100.0
4,4'-DDD	4.91	100.0
Endosulfan II	4.99	100.0
4,4'-DDT	5.14	100.0
Endrin aldehyde	5.23	100.0
Endosulfan sulfate	5.41	100.00
Methoxychlor	5.63	99.90
Endrin ketone	5.82	100.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID (1): CCVIS 460-505161/3 Instrument ID (1): CPESTGC4

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 03/22/2018 09:30

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	1.73	100.00
alpha-BHC	2.02	100.0
gamma-BHC (Lindane)	2.20	100.0
beta-BHC	2.24	100.0
delta-BHC	2.35	100.0
Heptachlor	2.48	100.0
Aldrin	2.66	100.0
Heptachlor epoxide	3.07	100.0
4,4'-DDE	3.32	96.50
Endosulfan I	3.37	100.00
Dieldrin	3.57	100.00
Endrin	3.79	100.0
4,4'-DDD	3.85	100.0
Endosulfan II	4.02	100.0
4,4'-DDT	4.15	100.0
Endrin aldehyde	4.46	100.0
Methoxychlor	4.68	98.80
Endosulfan sulfate	4.86	99.30
Endrin ketone	5.05	100.00

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: PEM 460-505161/2 Calibration Date: 03/22/2018 09:17

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076558.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	4.84	100666347	4.29	15	
Endrin aldehyde	5.23	1290361			
Endrin ketone	5.83	3219416			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.14	86947446	6.08	15	
4,4'-DDD	4.92	2638071			
4,4'-DDE	4.36	2988593			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076558.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 22-Mar-2018 09:17:52 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub20

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:28 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.558	1.562	-0.004	50412310	100.0	100.0	
2	1.405	1.408	-0.003	67070291	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	4.356	4.364	-0.008	2988593		5.52	
2	3.316	3.322	-0.006	2142043		3.09	
						RPD = 56.39	
20 Endrin							
1	4.839	4.843	-0.004	100666347	250.0	197.8	
2	3.790	3.796	-0.006	132733426	250.0	190.5	
						RPD = 3.74	
16 4,4'-DDD							
1	4.918	4.919	-0.001	2638071		5.82	
2	3.855	3.860	-0.005	638408		1.06	
						RPD = 138.56	
21 4,4'-DDT							
1	5.141	5.145	-0.004	86947446	250.0	181.4	
2	4.155	4.162	-0.007	116225540	250.0	185.3	
						RPD = 2.15	
5 Endrin aldehyde							
1	5.233	5.233	0.000	1290361		3.13	
2	4.463	4.469	-0.006	907376		1.65	
						RPD = 61.65	
13 Endrin ketone							
1	5.830	5.832	-0.002	3219416		6.03	
2	5.051	5.055	-0.004	2450682		3.23	
						RPD = 60.58	

Reagents:

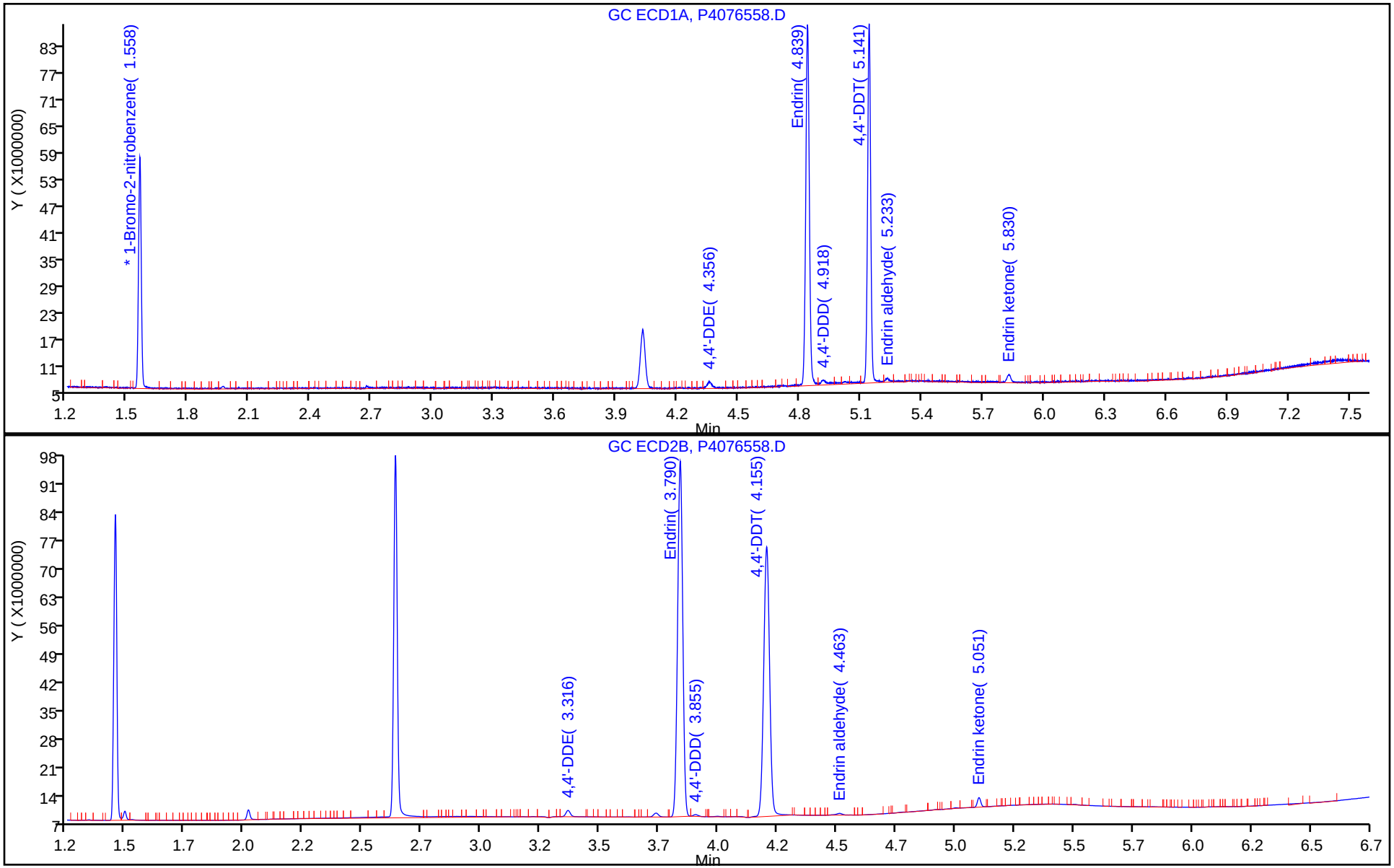
SGDDT/Ei_00032	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 13:35:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076558.D

Injection Date:	22-Mar-2018 09:17:52	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: PEM 460-505161/2 Calibration Date: 03/22/2018 09:17

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076558.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	3.79	132733426	2.47	15	
Endrin aldehyde	4.46	907376			
Endrin ketone	5.05	2450682			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	4.16	116225540	2.34	15	
4,4'-DDD	3.86	638408			
4,4'-DDE	3.32	2142043			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076558.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 22-Mar-2018 09:17:52 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub20

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:28 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.558	1.562	-0.004	50412310	100.0	100.0	
2	1.405	1.408	-0.003	67070291	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	4.356	4.364	-0.008	2988593		5.52	
2	3.316	3.322	-0.006	2142043		3.09	
						RPD = 56.39	
20 Endrin							
1	4.839	4.843	-0.004	100666347	250.0	197.8	
2	3.790	3.796	-0.006	132733426	250.0	190.5	
						RPD = 3.74	
16 4,4'-DDD							
1	4.918	4.919	-0.001	2638071		5.82	
2	3.855	3.860	-0.005	638408		1.06	
						RPD = 138.56	
21 4,4'-DDT							
1	5.141	5.145	-0.004	86947446	250.0	181.4	
2	4.155	4.162	-0.007	116225540	250.0	185.3	
						RPD = 2.15	
5 Endrin aldehyde							
1	5.233	5.233	0.000	1290361		3.13	
2	4.463	4.469	-0.006	907376		1.65	
						RPD = 61.65	
13 Endrin ketone							
1	5.830	5.832	-0.002	3219416		6.03	
2	5.051	5.055	-0.004	2450682		3.23	
						RPD = 60.58	

Reagents:

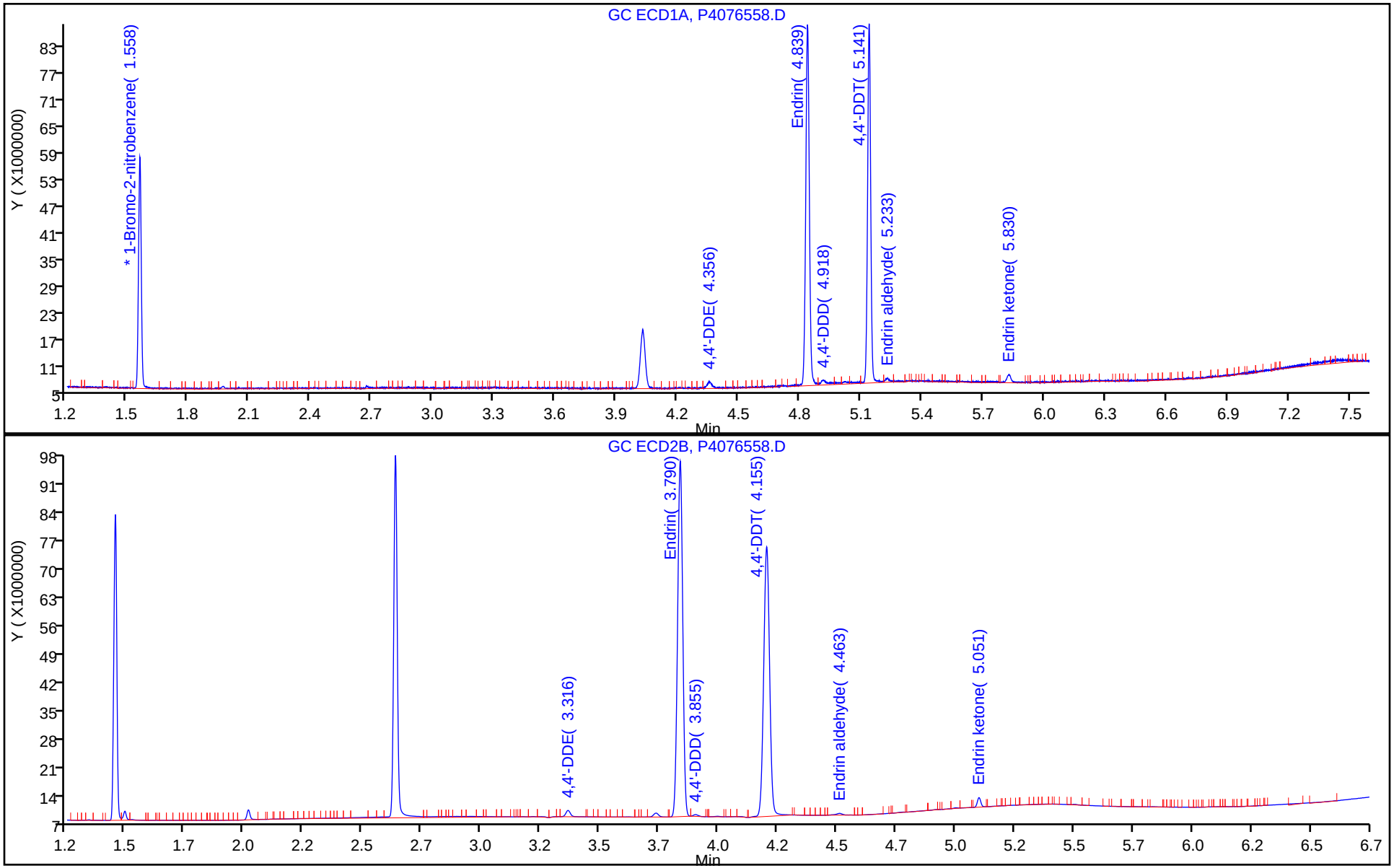
SGDDT/Ei_00032	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 13:35:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076558.D

Injection Date:	22-Mar-2018 09:17:52	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: PEM 460-505044/2 Calibration Date: 03/21/2018 07:10

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919143.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	4.46	442785674	6.14	15	
Endrin aldehyde	5.00	7884555			
Endrin ketone	5.46	21081164			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	4.77	402417866	2.64	15	
4,4'-DDD	4.51	10763748			
4,4'-DDE	3.97	127940			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919143.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Mar-2018 07:10:58 ALS Bottle#: 37 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:20 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.658	1.660	-0.002	157028130	100.0	100.0	
2	1.673	1.676	-0.003	78094198	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	3.966	3.965	0.001	127940		0.0546	
2	3.884	3.884	0.000	3977007		3.40	
						RPD = 193.69	
20 Endrin							
1	4.463	4.464	-0.001	442785674	250.0	201.1	
2	4.467	4.469	-0.002	199168657	250.0	185.9	
						RPD = 7.88	
16 4,4'-DDD							
1	4.514	4.513	0.001	10763748		5.27	
2	4.516	4.516	0.000	5517984		5.84	
						RPD = 10.18	
21 4,4'-DDT							
1	4.774	4.774	0.000	402417866	250.0	172.0	
2	4.776	4.777	-0.001	169928896	250.0	165.1	
						RPD = 4.14	
5 Endrin aldehyde							
1	5.001	5.000	0.001	7884555		4.31	
2	5.002	5.001	0.001	3372465		4.31	
						RPD = 0.16	
13 Endrin ketone							
1	5.455	5.455	0.000	21081164		8.42	
2	5.454	5.454	0.000	5680261		5.67	
						RPD = 38.98	

Reagents:

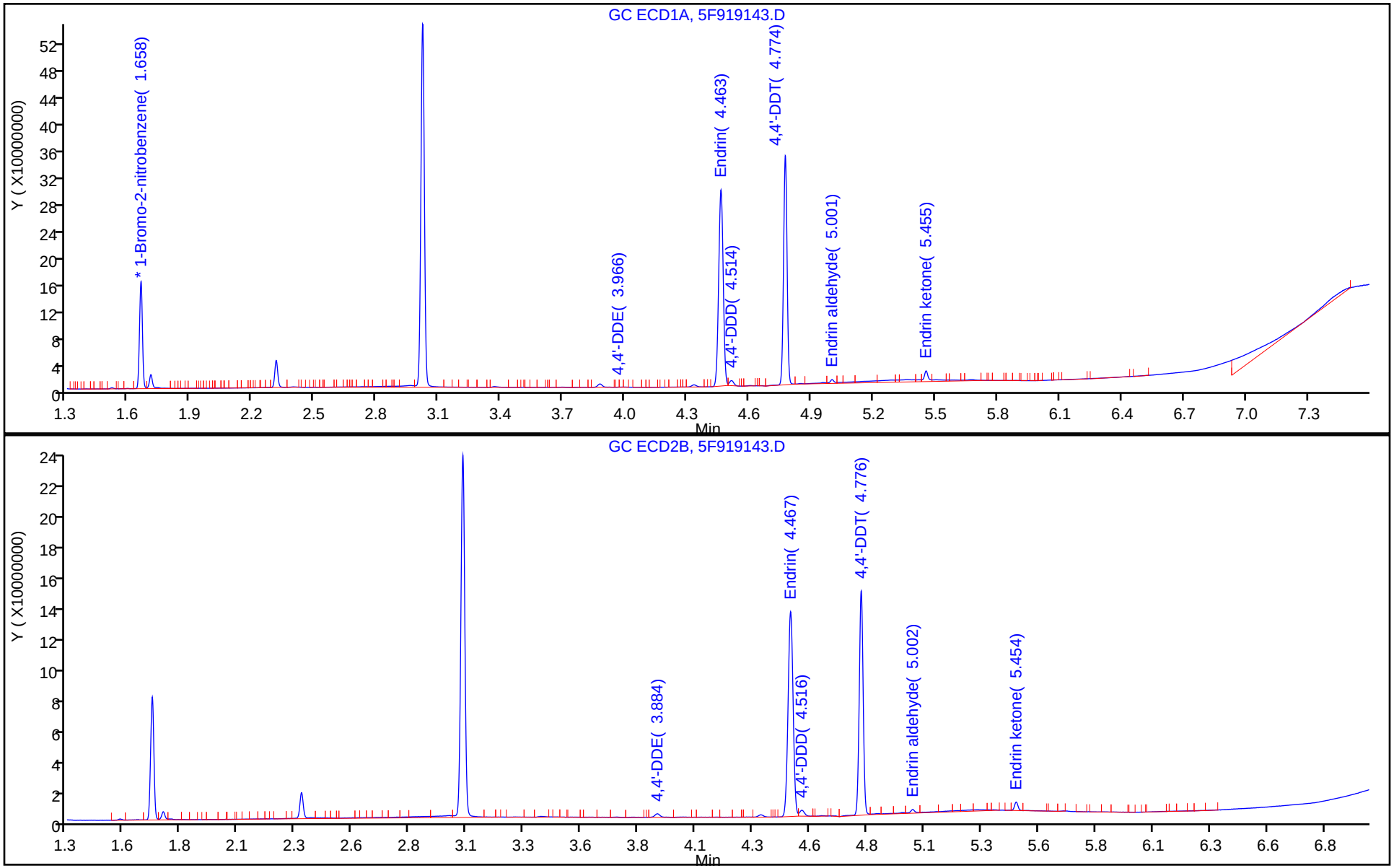
SGDDT/Ei_00032	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919143.D

Injection Date:	21-Mar-2018 07:10:58	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: PEM 460-505044/2 Calibration Date: 03/21/2018 07:10

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919143.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	4.47	199168657	4.35	15	
Endrin aldehyde	5.00	3372465			
Endrin ketone	5.45	5680261			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	4.78	169928896	5.29	15	
4,4'-DDD	4.52	5517984			
4,4'-DDE	3.88	3977007			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919143.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Mar-2018 07:10:58 ALS Bottle#: 37 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:20 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.658	1.660	-0.002	157028130	100.0	100.0	
2	1.673	1.676	-0.003	78094198	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	3.966	3.965	0.001	127940		0.0546	
2	3.884	3.884	0.000	3977007		3.40	
						RPD = 193.69	
20 Endrin							
1	4.463	4.464	-0.001	442785674	250.0	201.1	
2	4.467	4.469	-0.002	199168657	250.0	185.9	
						RPD = 7.88	
16 4,4'-DDD							
1	4.514	4.513	0.001	10763748		5.27	
2	4.516	4.516	0.000	5517984		5.84	
						RPD = 10.18	
21 4,4'-DDT							
1	4.774	4.774	0.000	402417866	250.0	172.0	
2	4.776	4.777	-0.001	169928896	250.0	165.1	
						RPD = 4.14	
5 Endrin aldehyde							
1	5.001	5.000	0.001	7884555		4.31	
2	5.002	5.001	0.001	3372465		4.31	
						RPD = 0.16	
13 Endrin ketone							
1	5.455	5.455	0.000	21081164		8.42	
2	5.454	5.454	0.000	5680261		5.67	
						RPD = 38.98	

Reagents:

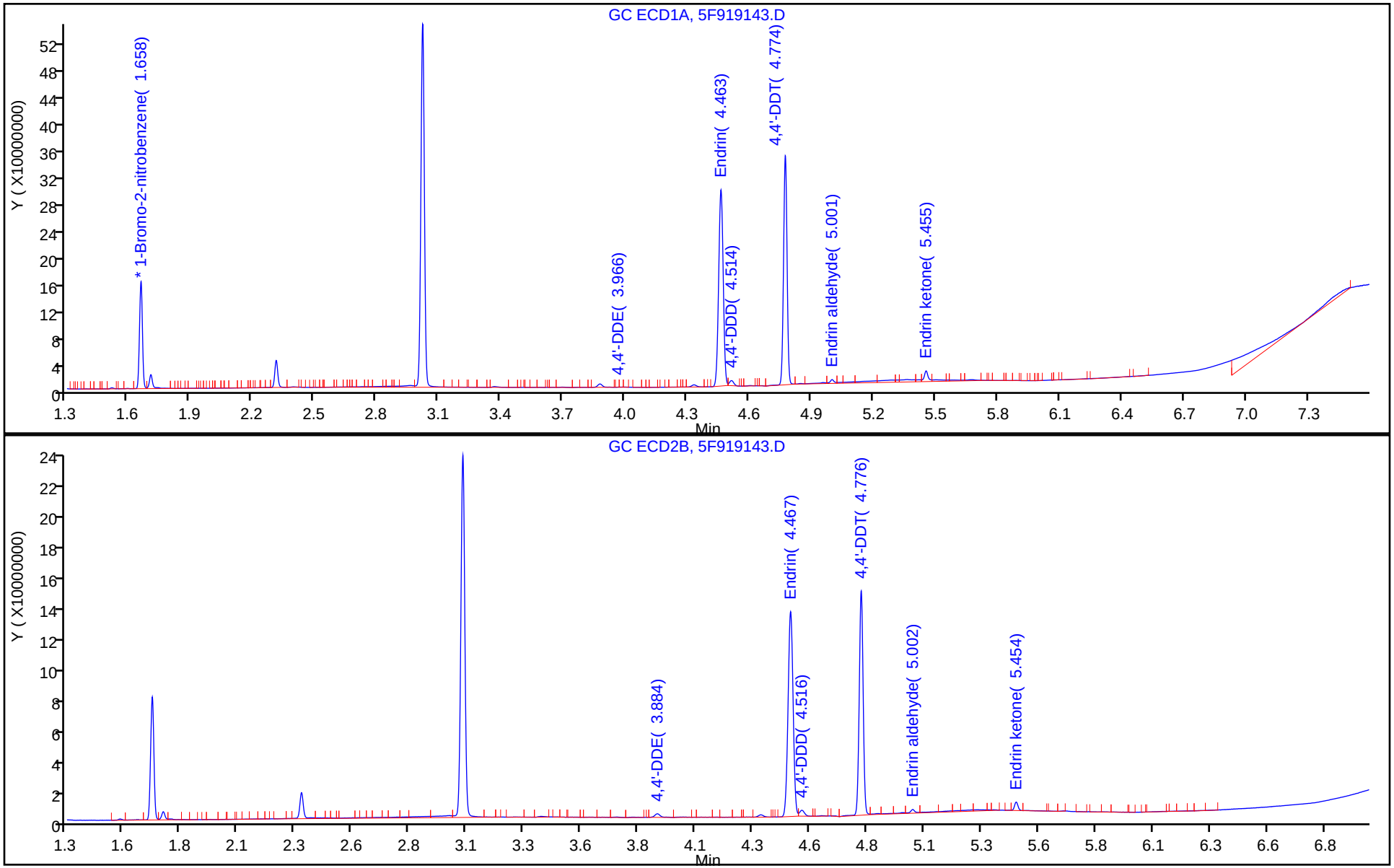
SGDDT/Ei_00032	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919143.D

Injection Date:	21-Mar-2018 07:10:58	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-465107/8 Calibration Date: 09/27/2017 09:40

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4004887.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.440	1.476		102	100	2.5	20.0
gamma-BHC (Lindane)	Ave	1.337	1.378		103	100	3.0	20.0
beta-BHC	Ave	0.5839	0.5946		102	100	1.8	20.0
delta-BHC	Ave	1.364	1.391		102	100	2.0	20.0
Heptachlor	Ave	1.326	1.345		101	100	1.4	20.0
Aldrin	Ave	1.250	1.250		100	100	0.0	20.0
Heptachlor epoxide	Ave	1.138	1.175		103	100	3.3	20.0
trans-Chlordane	Ave	1.138	1.141		100	100	0.2	20.0
cis-Chlordane	Ave	1.076	1.073		99.6	100	-0.4	20.0
Endosulfan I	Ave	1.043	1.040		99.7	100	-0.3	20.0
4,4'-DDE	Ave	1.075	1.098		102	100	2.2	20.0
Dieldrin	Ave	1.141	1.163		102	100	1.9	20.0
Endrin	Ave	1.009	1.036		103	100	2.6	20.0
4,4'-DDD	Ave	0.8996	0.9085		101	100	1.0	20.0
Endosulfan II	Ave	0.9729	0.9879		102	100	1.5	20.0
4,4'-DDT	Ave	0.9508	0.9684		102	100	1.9	20.0
Endrin aldehyde	Ave	0.8185	0.8372		102	100	2.3	20.0
Endosulfan sulfate	Ave	0.9396	0.9624		102	100	2.4	20.0
Methoxychlor	Ave	0.5189	0.5400		104	100	4.1	20.0
Mirex	Ave	0.6647	0.6578		99.0	100	-1.0	20.0
Endrin ketone	Ave	1.058	1.093		103	100	3.3	20.0
Tetrachloro-m-xylene	Ave	0.998	1.007		101	100	0.9	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.7614		103	100	3.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-465107/8 Calibration Date: 09/27/2017 09:40

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4004887.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.66	2.64	2.66
gamma-BHC (Lindane)	2.93	2.91	2.93
beta-BHC	2.98	2.96	2.98
delta-BHC	3.23	3.21	3.23
Heptachlor	3.31	3.29	3.31
Aldrin	3.62	3.60	3.62
Heptachlor epoxide	4.23	4.20	4.22
trans-Chlordane	4.44	4.41	4.43
cis-Chlordane	4.60	4.57	4.59
Endosulfan I	4.66	4.64	4.66
4,4'-DDE	4.74	4.71	4.73
Dieldrin	4.90	4.88	4.90
Endrin	5.12	5.10	5.12
4,4'-DDD	5.18	5.16	5.18
Endosulfan II	5.26	5.24	5.26
4,4'-DDT	5.39	5.37	5.39
Endrin aldehyde	5.49	5.47	5.49
Endosulfan sulfate	5.70	5.68	5.70
Methoxychlor	5.94	5.92	5.94
Mirex	6.15	6.06	6.20
Endrin ketone	6.18	6.10	6.24
Tetrachloro-m-xylene	2.24	2.22	2.24
DCB Decachlorobiphenyl	7.10	6.99	7.19

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Lims ID: ICV PEST
Client ID:
Sample Type: ICV
Inject. Date: 27-Sep-2017 09:40:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-008
Operator ID: Instrument ID: CPESTGC4
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 10:20:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.684	1.681	0.003	31405718	100.0	100.0	
2	1.512	1.514	-0.002	39607967	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.239	2.233	0.006	31631148	100.0	100.9	
2	1.885	1.887	-0.002	39843871	100.0	106.3	
						RPD = 5.14	
15 alpha-BHC							
1	2.662	2.654	0.008	46355872	100.0	102.5	
2	2.208	2.210	-0.002	59609628	100.0	109.2	
						RPD = 6.33	
2 gamma-BHC (Lindane)							M
1	2.931	2.921	0.010	43271264	100.0	103.0	
2	2.401	2.402	-0.001	55609903	100.0	111.6	M
						RPD = 7.94	
6 beta-BHC							M
1	2.980	2.970	0.010	18674299	100.0	101.8	a
2	2.448	2.449	-0.001	23831924	100.0	110.3	M
						RPD = 8.01	
32 delta-BHC							M
1	3.231	3.220	0.011	43692706	100.0	102.0	a
2	2.564	2.565	-0.001	55968619	100.0	112.5	M
						RPD = 9.73	
18 Heptachlor							M
1	3.308	3.297	0.011	42236793	100.0	101.4	a
2	2.699	2.700	-0.001	54373197	100.0	111.2	M
						RPD = 9.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.618	3.605	0.013	39272287	100.0	100.0	a
2	2.907	2.907	0.000	49792323	100.0	110.0	M
						RPD = 9.48	
12 Heptachlor epoxide							M
1	4.228	4.211	0.017	36910390	100.0	103.3	a
2	3.363	3.362	0.001	47807671	100.0	112.0	M
						RPD = 8.08	
9 gamma-Chlordane							M
1	4.435	4.420	0.015	35839876	100.0	100.2	a
2	3.465	3.464	0.001	47610804	100.0	112.2	M
						RPD = 11.27	
23 alpha-Chlordane							M
1	4.595	4.580	0.015	33686640	100.0	99.6	a
2	3.581	3.580	0.001	46217441	100.0	112.0	M
						RPD = 11.72	
7 Endosulfan I							M
1	4.663	4.651	0.012	32663735	100.0	99.7	a
2	3.713	3.712	0.001	46208085	100.0	114.8	M
						RPD = 14.04	
25 4,4'-DDE							M
1	4.736	4.723	0.013	34489192	100.0	102.2	a
2	3.636	3.634	0.002	46661815	100.0	114.0	M
						RPD = 10.91	
30 Dieldrin							M
1	4.898	4.887	0.011	36527571	100.0	101.9	a
2	3.948	3.946	0.002	51034966	100.0	114.8	M
						RPD = 11.83	
20 Endrin							M
1	5.122	5.112	0.010	32524450	100.0	102.6	
2	4.203	4.200	0.003	46578028	100.0	113.2	M
						RPD = 9.86	
16 4,4'-DDD							M
1	5.177	5.166	0.011	28531141	100.0	101.0	a
2	4.258	4.256	0.002	39841508	100.0	111.6	M
						RPD = 9.95	
11 Endosulfan II							
1	5.263	5.254	0.009	31025761	100.0	101.5	
2	4.443	4.439	0.004	43630873	100.0	112.3	
						RPD = 10.06	
21 4,4'-DDT							
1	5.391	5.381	0.010	30414147	100.0	101.9	
2	4.561	4.557	0.004	41946947	100.0	113.3	
						RPD = 10.61	
5 Endrin aldehyde							
1	5.492	5.482	0.010	26293708	100.0	102.3	
2	4.838	4.835	0.003	36644595	100.0	113.1	
						RPD = 10.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.703	5.692	0.011	30223949	100.0	102.4	a
2	5.147	5.143	0.004	43877426	100.0	110.7	a
						RPD = 7.77	
10 Methoxychlor							
1	5.940	5.928	0.012	16959042	100.0	104.1	a
2	4.973	4.969	0.004	22313734	100.0	107.5	a
						RPD = 3.29	
34 Mirex							M
1	6.145	6.133	0.012	20659451	100.0	99.0	M
2	5.068	5.065	0.003	30282202	100.0	106.4	
						RPD = 7.26	
13 Endrin ketone							M
1	6.180	6.169	0.011	34321892	100.0	103.3	M
2	5.327	5.323	0.004	50248084	100.0	112.1	
						RPD = 8.21	
$ 24 DCB Decachlorobiphenyl							
1	7.101	7.093	0.008	23913404	100.0	103.1	
2	6.123	6.117	0.006	39539288	100.0	110.2	
						RPD = 6.61	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

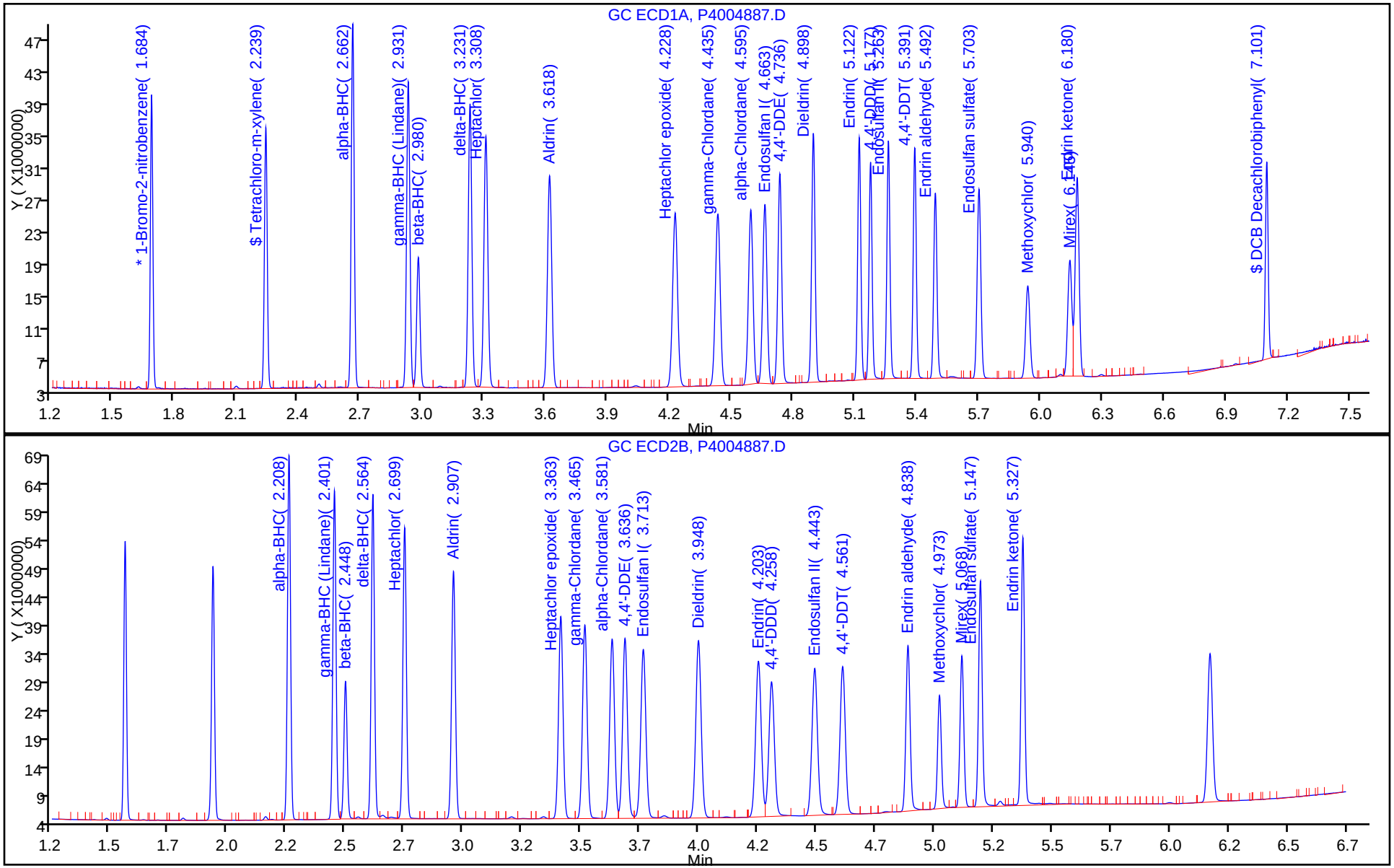
SGPTICV_00034	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D

Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	ICV PEST			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

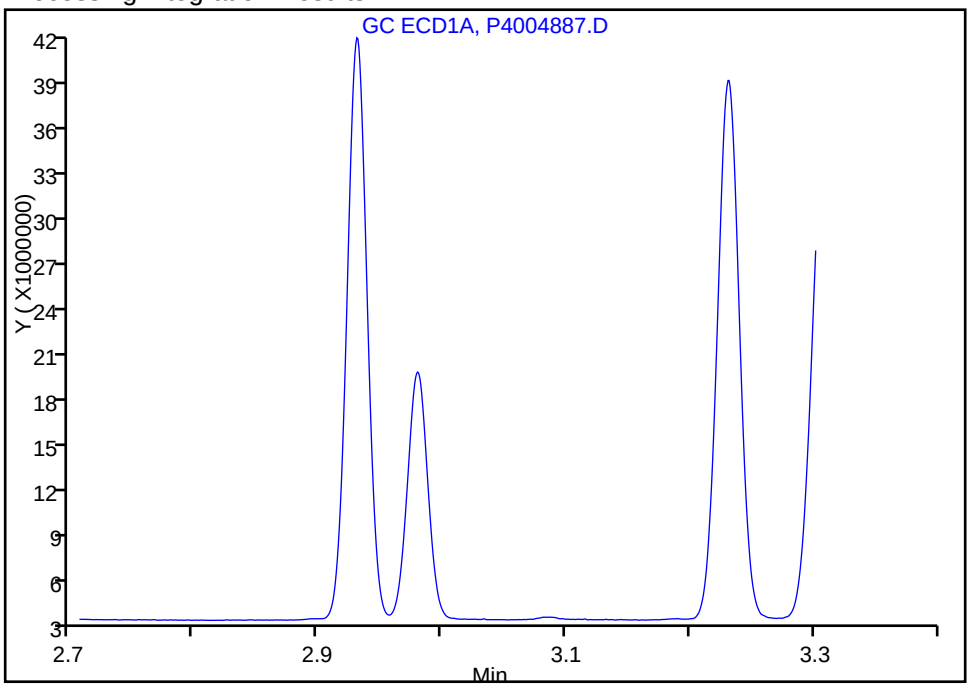
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

6 beta-BHC, CAS: 319-85-7

Signal: 1

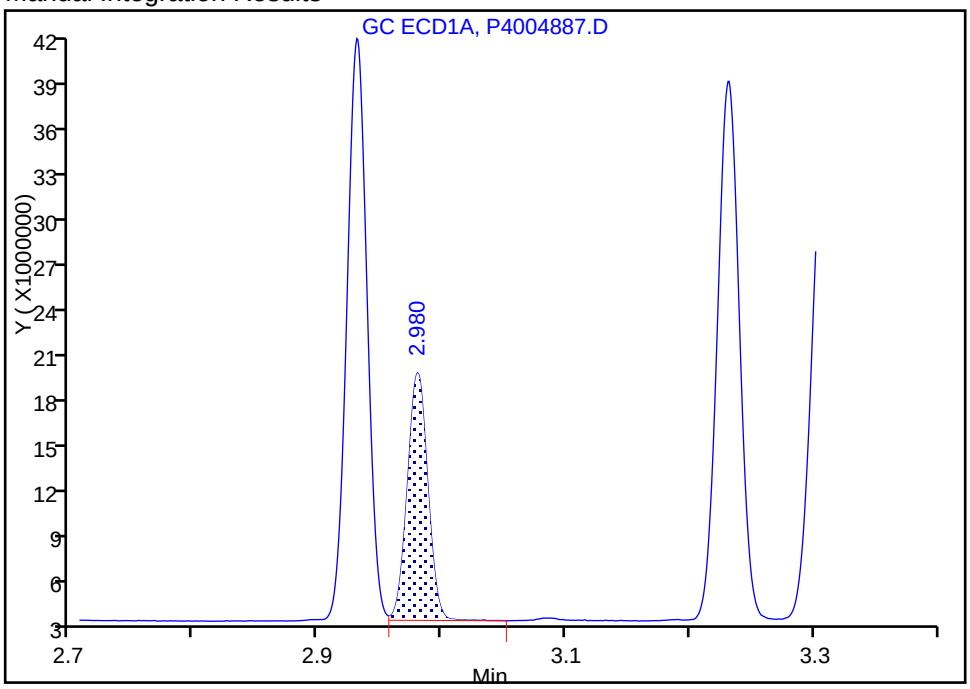
Not Detected
Expected RT: 2.97

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 18674299
Amount: 101.8413
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:03
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

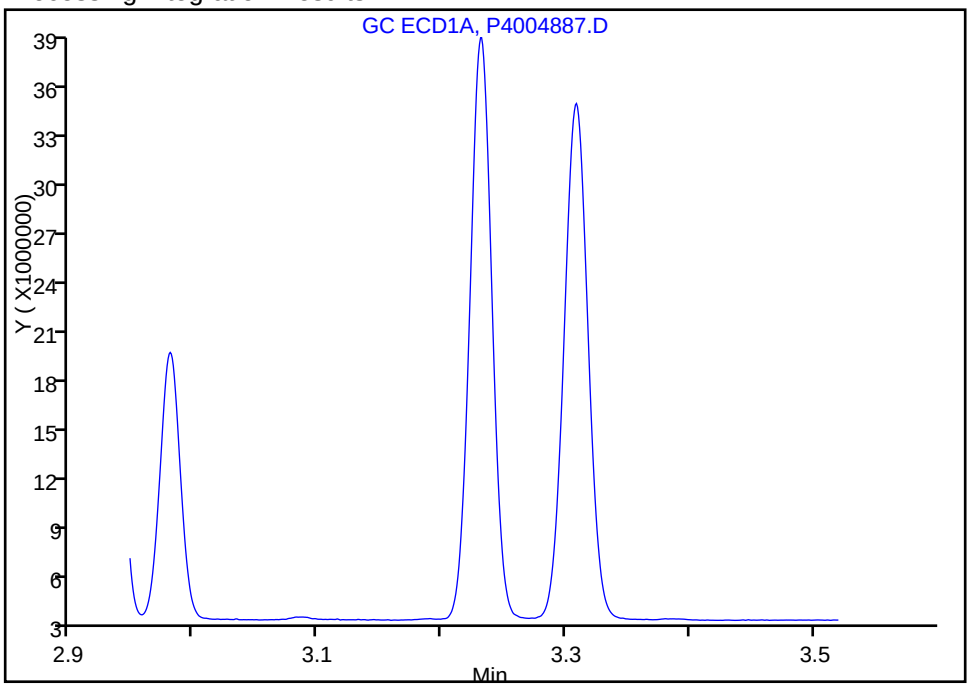
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

32 delta-BHC, CAS: 319-86-8

Signal: 1

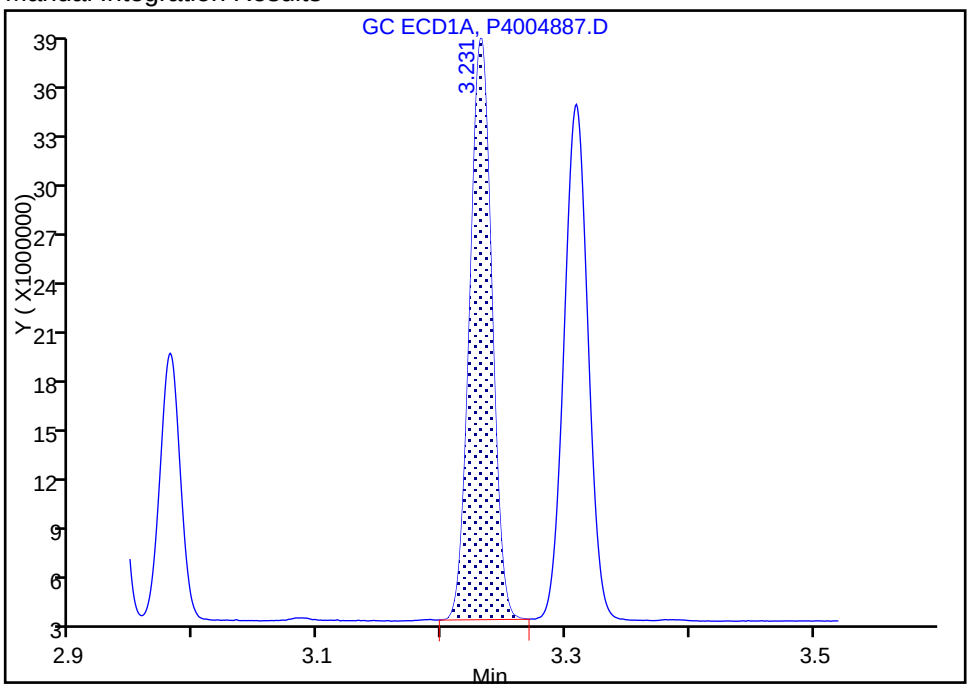
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 43692706
Amount: 102.0207
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:19
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

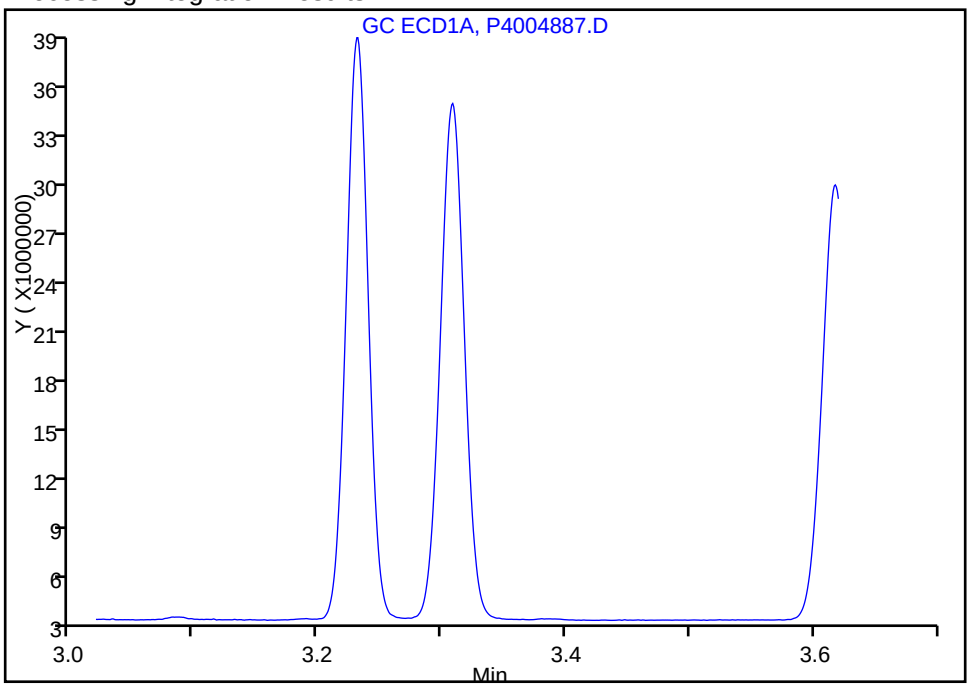
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

18 Heptachlor, CAS: 76-44-8

Signal: 1

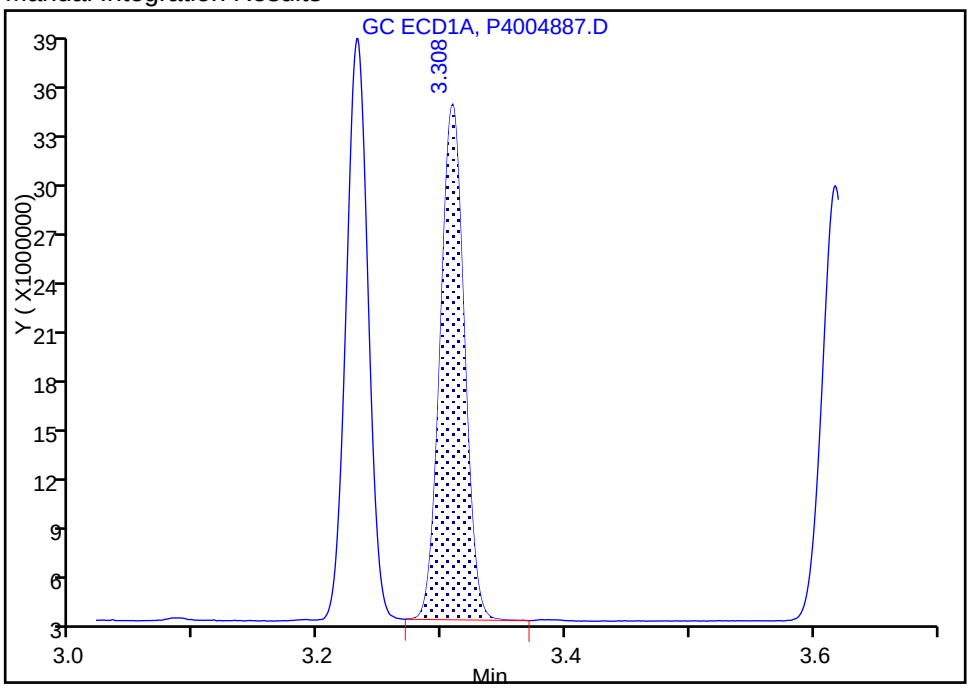
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.31
Area: 42236793
Amount: 101.4274
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:32
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

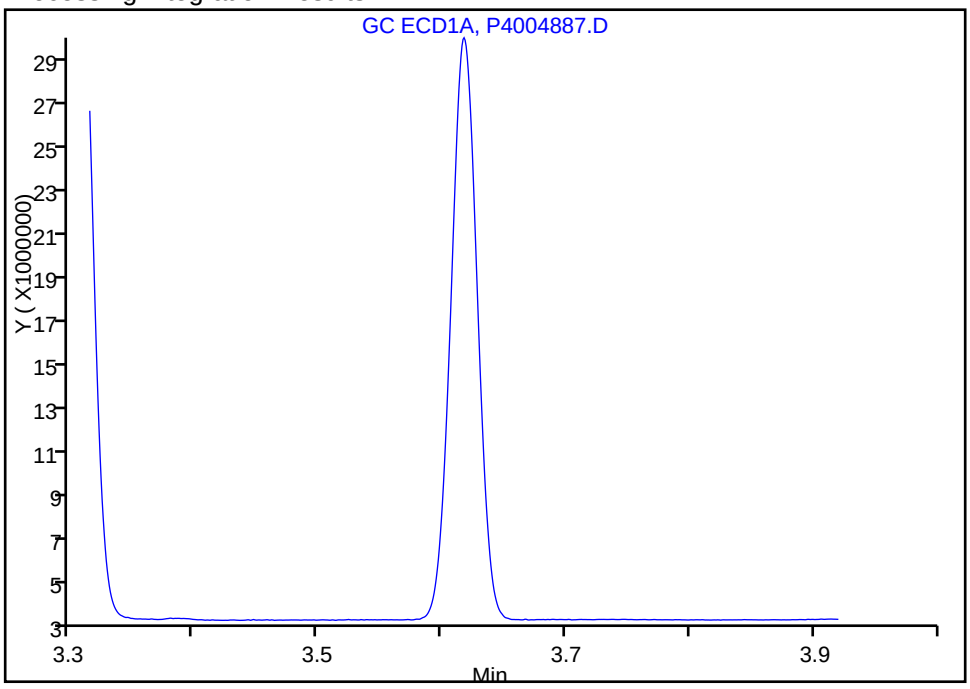
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

8 Aldrin, CAS: 309-00-2

Signal: 1

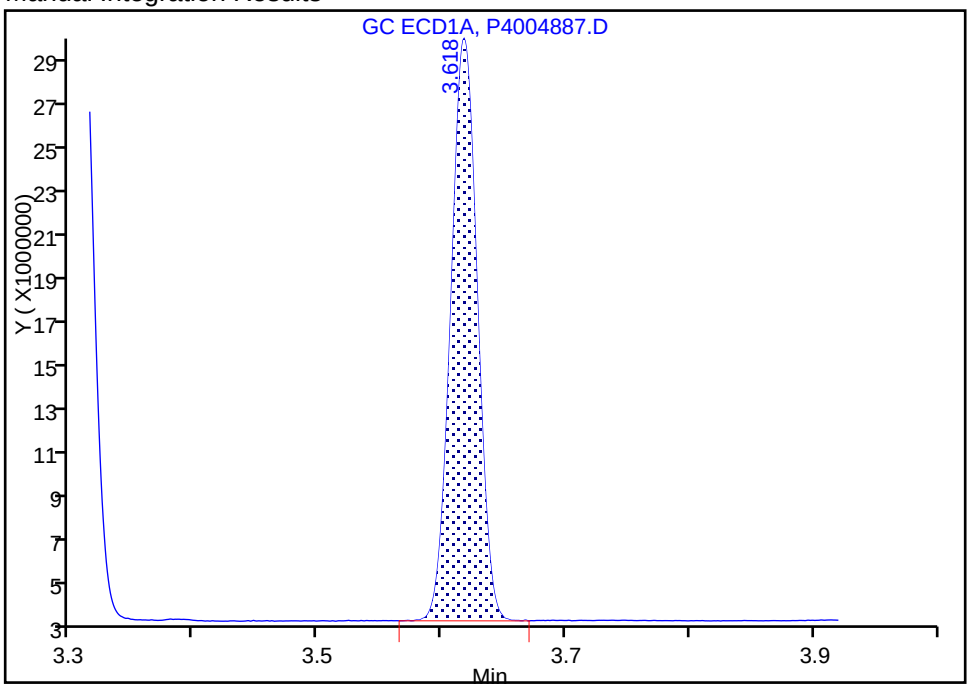
Not Detected
Expected RT: 3.60

Processing Integration Results



Manual Integration Results

RT: 3.62
Area: 39272287
Amount: 100.0335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:46
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

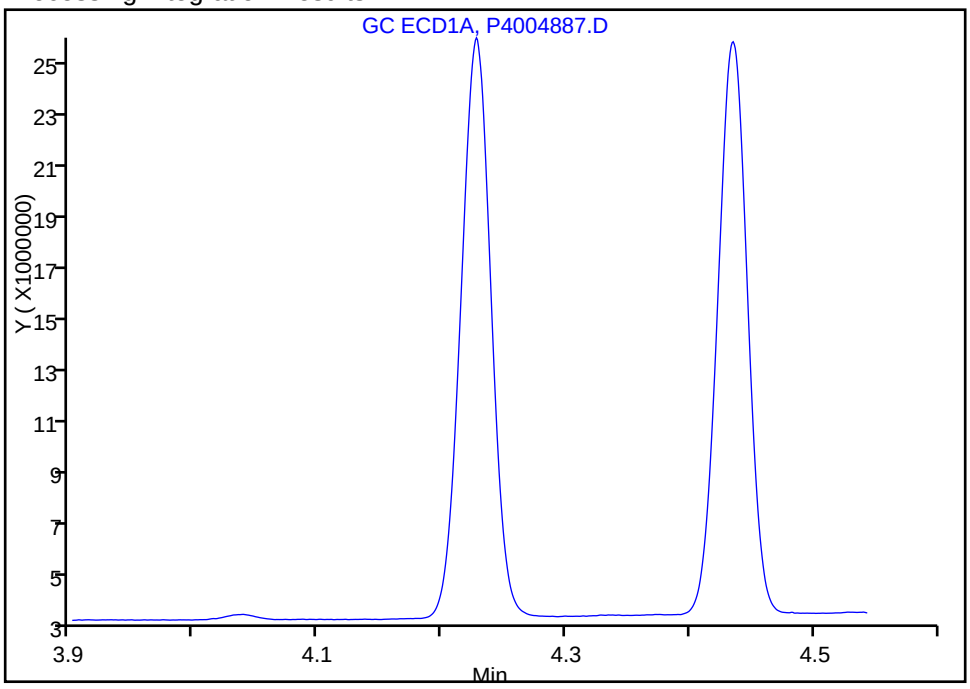
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

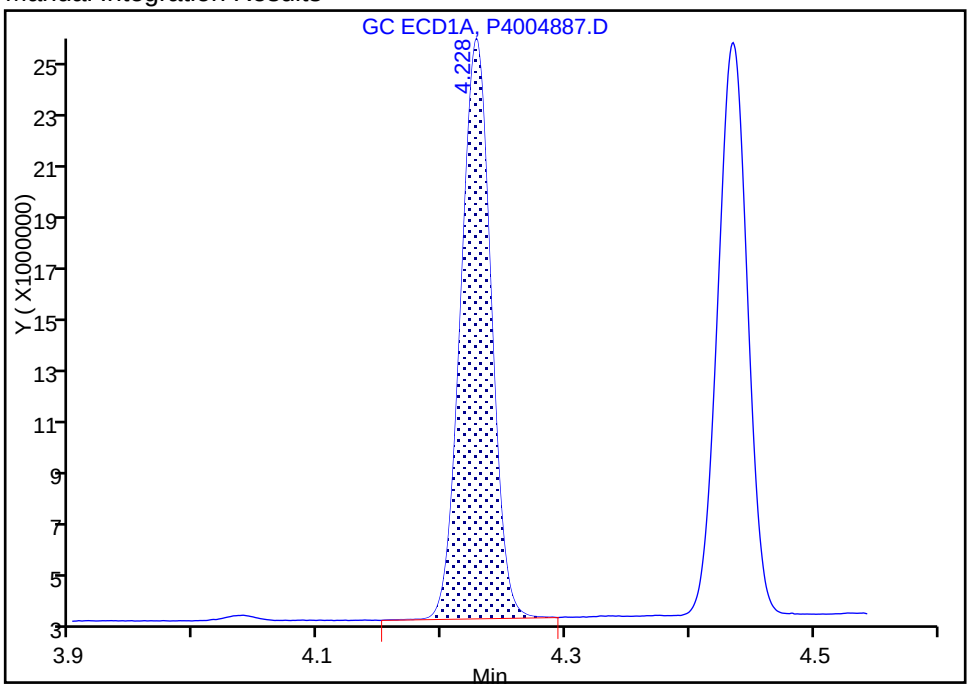
Processing Integration Results

Not Detected
Expected RT: 4.21



Manual Integration Results

RT: 4.23
Area: 36910390
Amount: 103.2949
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:26:40
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

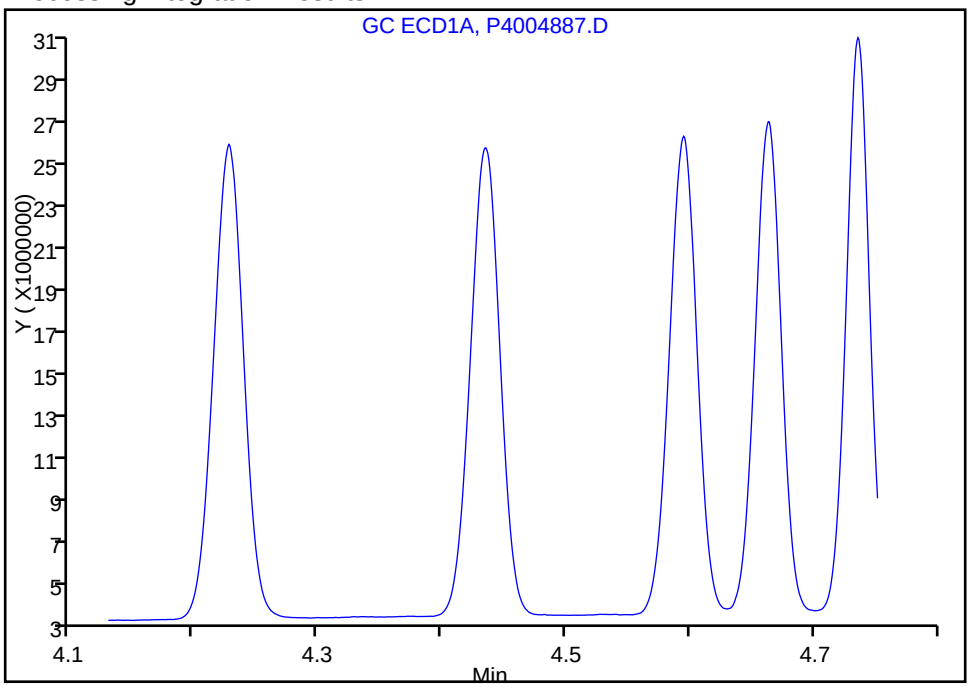
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

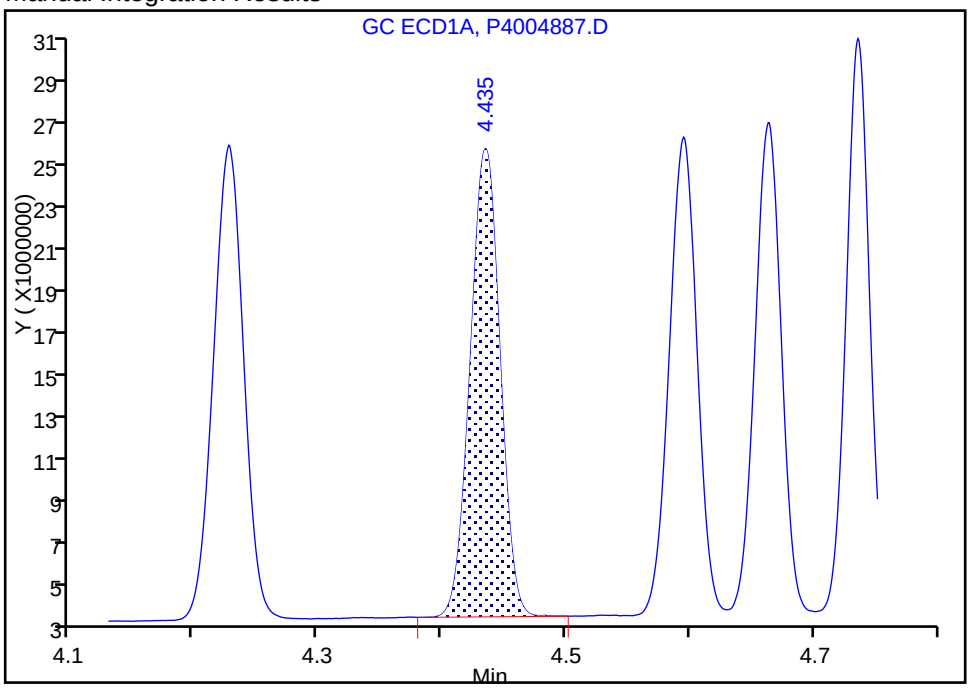
Processing Integration Results

Not Detected
Expected RT: 4.42



Manual Integration Results

RT: 4.44
Area: 35839876
Amount: 100.2495
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:26:52
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

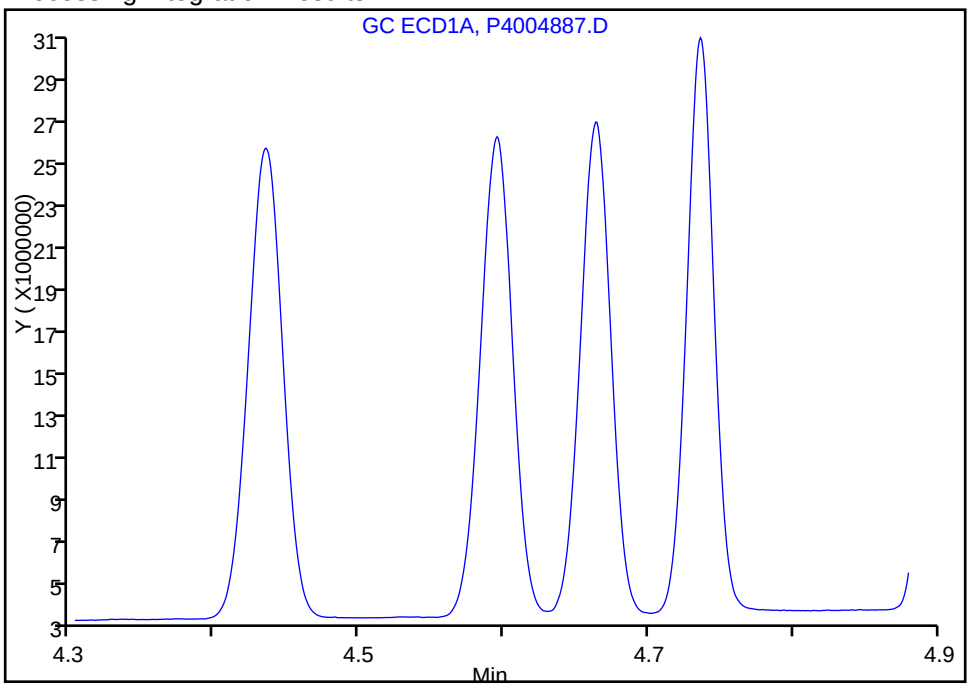
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

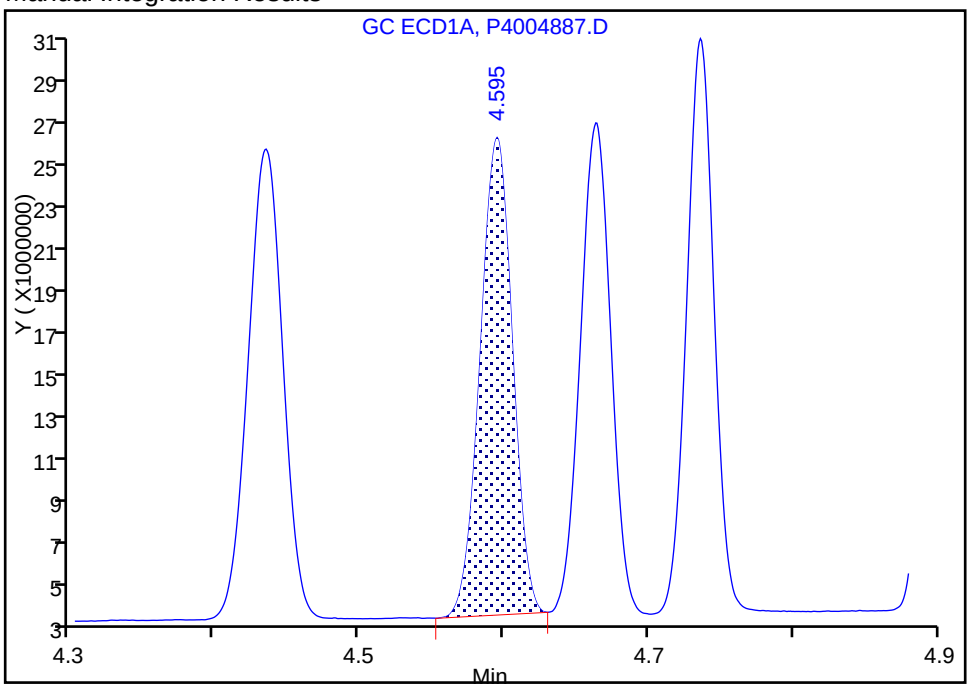
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 33686640
Amount: 99.641650
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:06
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

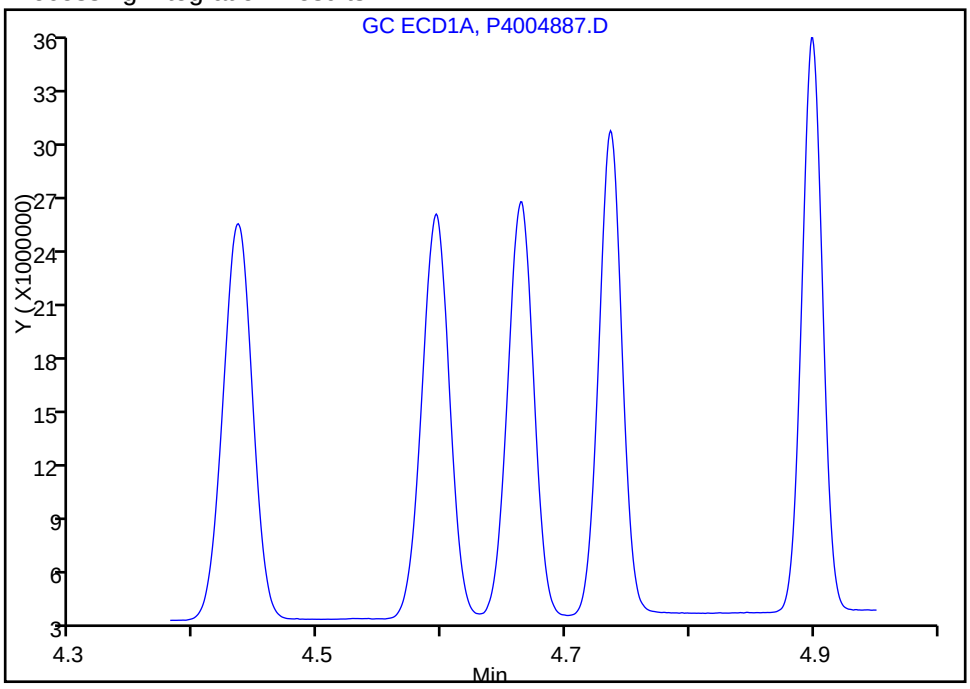
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

7 Endosulfan I, CAS: 959-98-8

Signal: 1

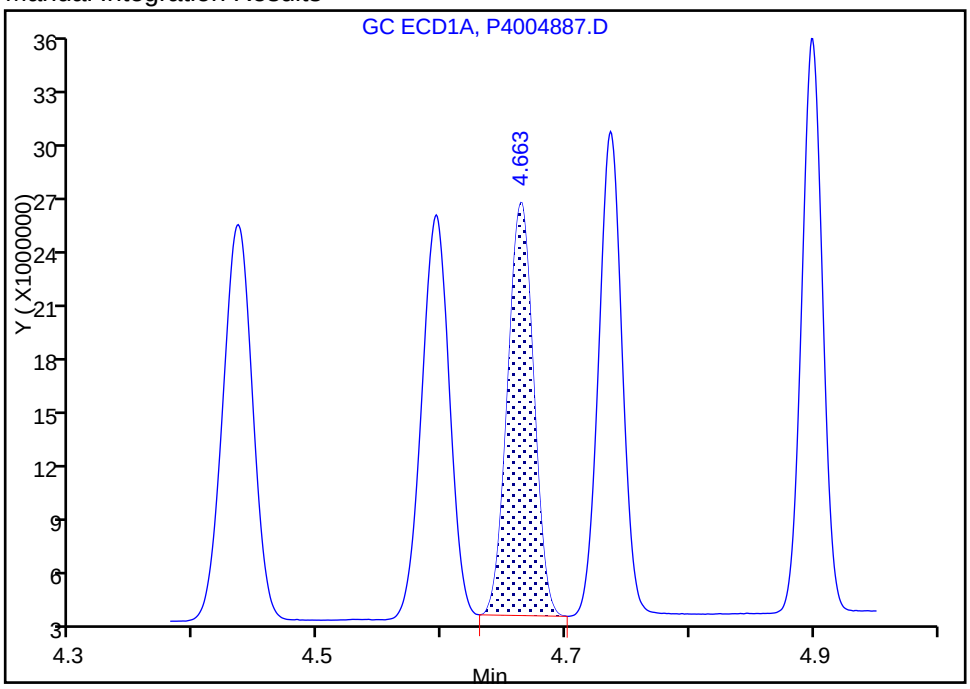
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 32663735
Amount: 99.720132
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:19
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

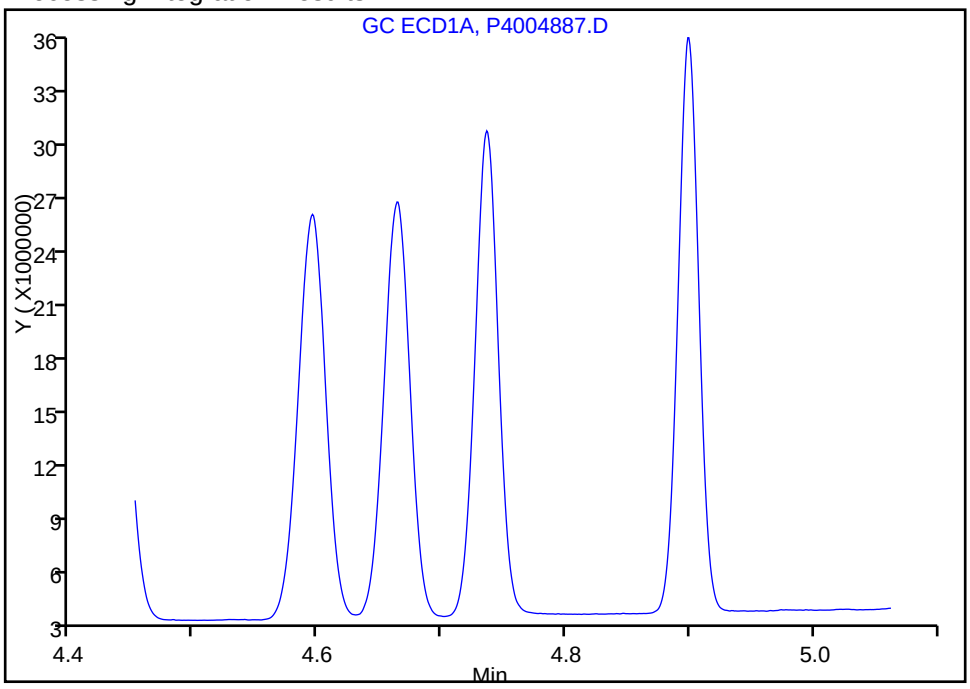
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

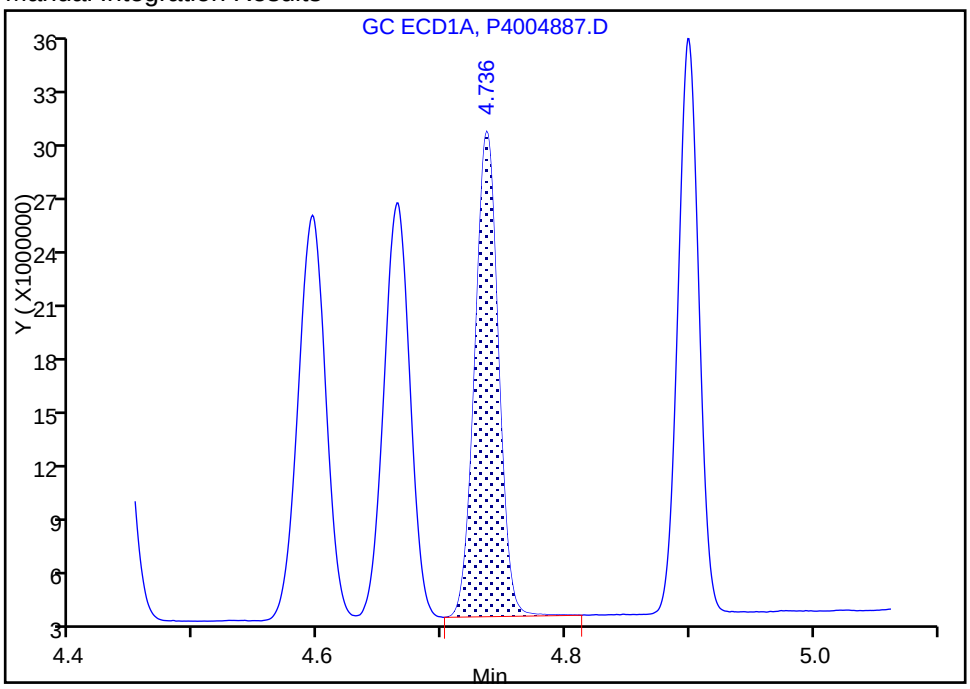
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.74
Area: 34489192
Amount: 102.1844
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:38
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

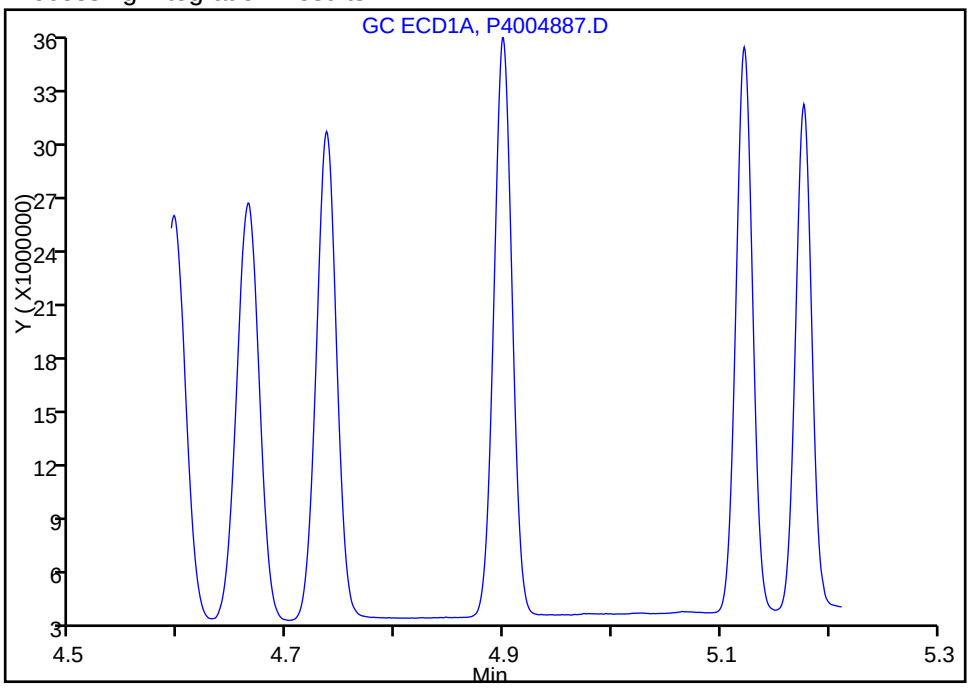
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

30 Dieldrin, CAS: 60-57-1

Signal: 1

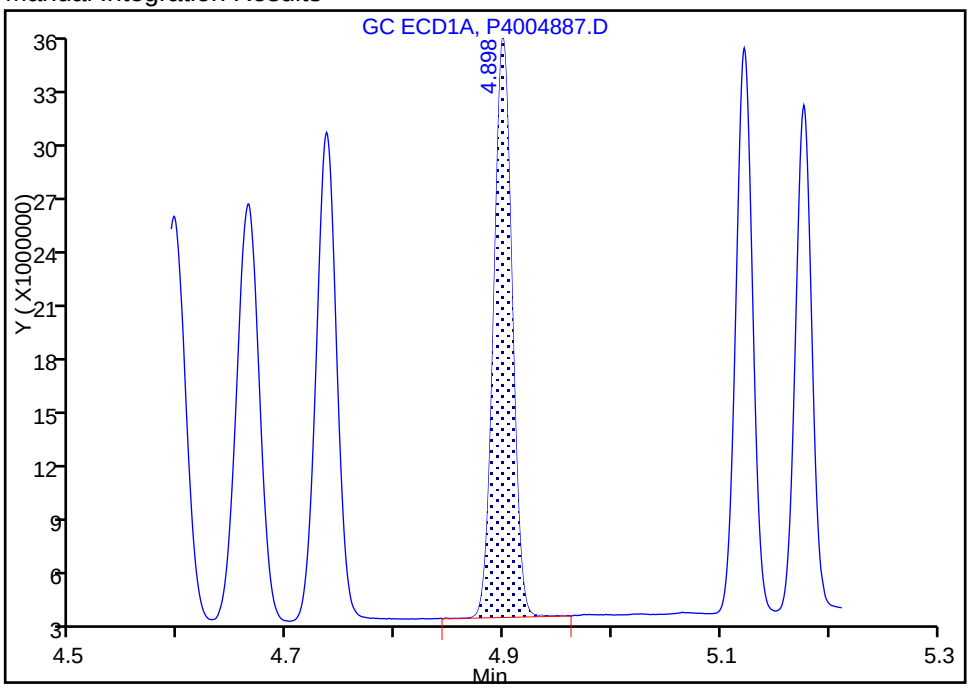
Not Detected
Expected RT: 4.89

Processing Integration Results



Manual Integration Results

RT: 4.90
Area: 36527571
Amount: 101.9368
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

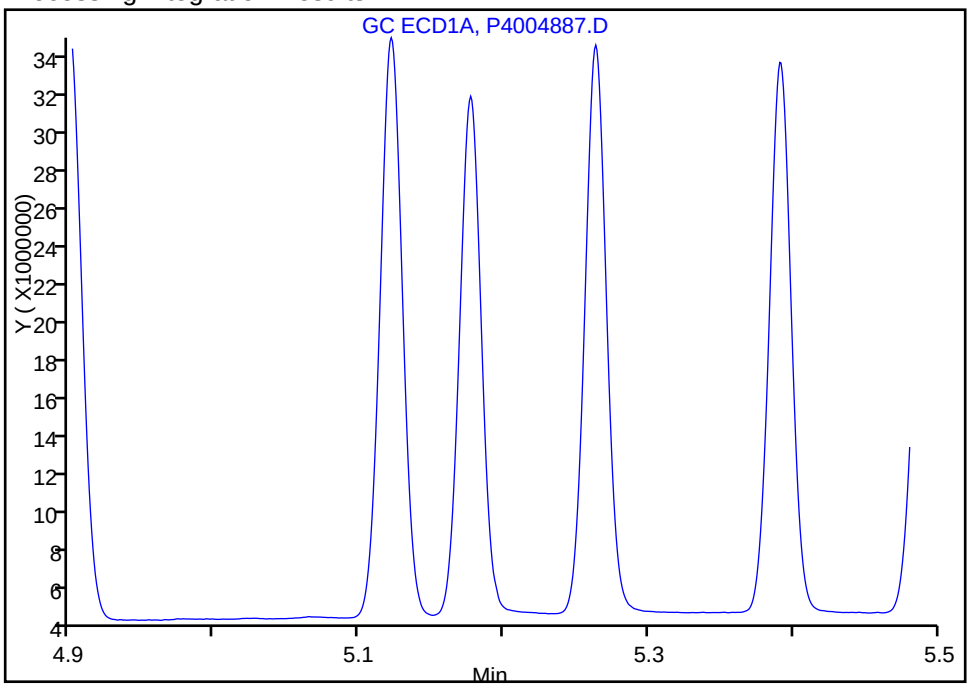
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

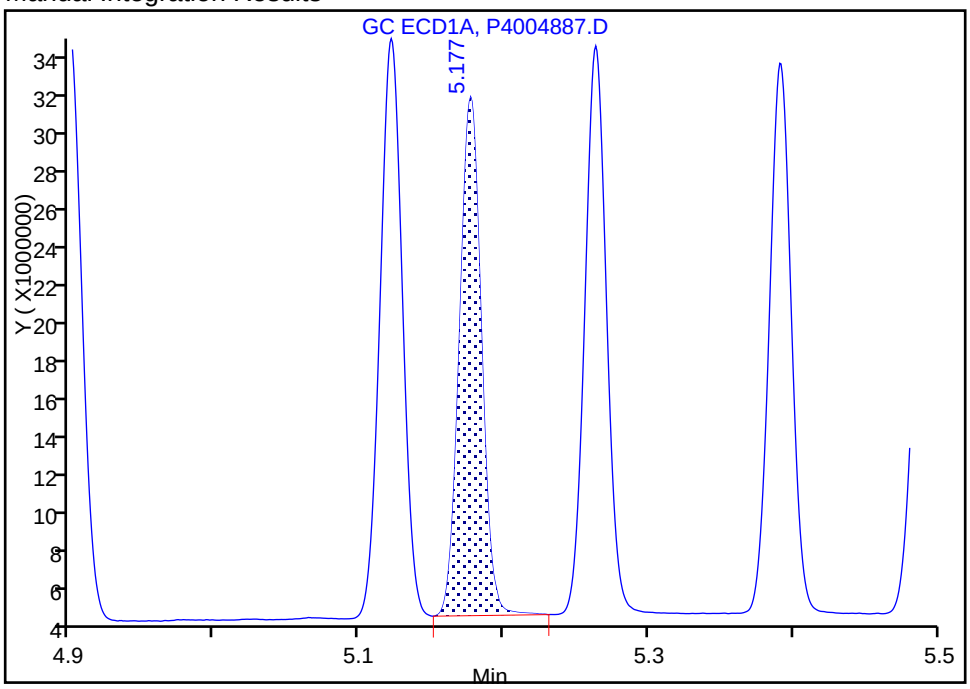
Not Detected
Expected RT: 5.17

Processing Integration Results



RT: 5.18
Area: 28531141
Amount: 100.9913
Amount Units: ug/l

Manual Integration Results



Reviewer: kapoors, 27-Sep-2017 10:28:06
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

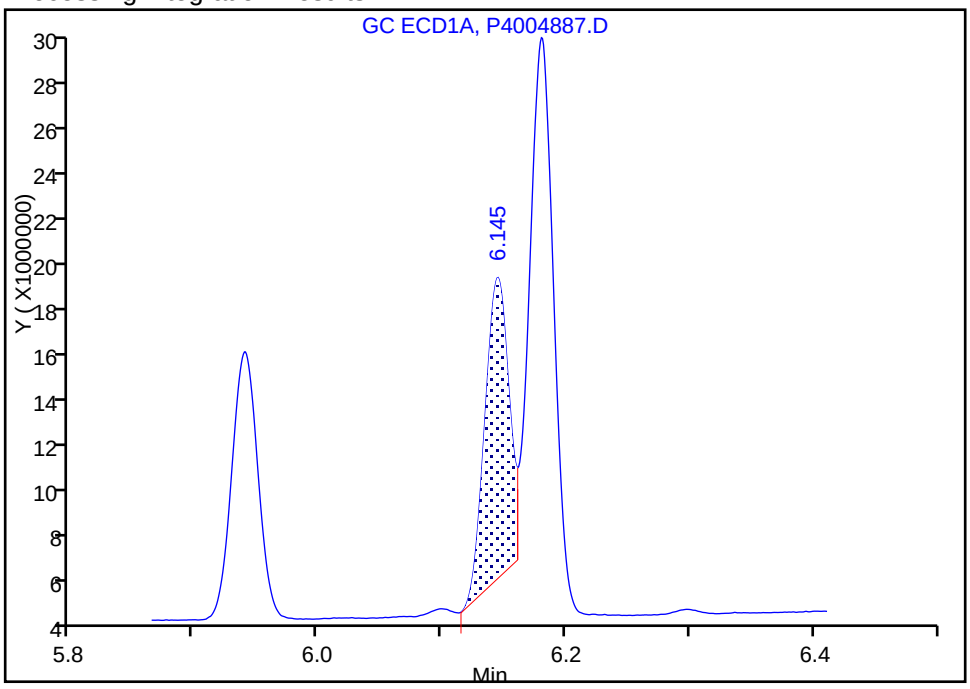
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

34 Mirex, CAS: 2385-85-5

Signal: 1

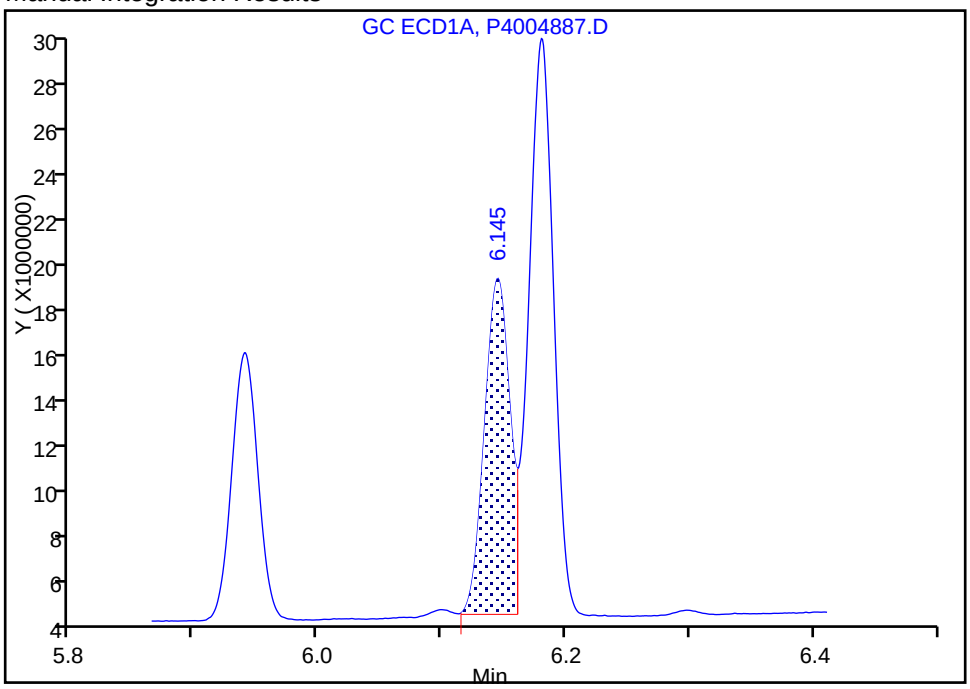
Processing Integration Results

RT: 6.15
Area: 17455541
Amount: 83.427455
Amount Units: ug/l



Manual Integration Results

RT: 6.15
Area: 20659451
Amount: 98.962128
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:28:54

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

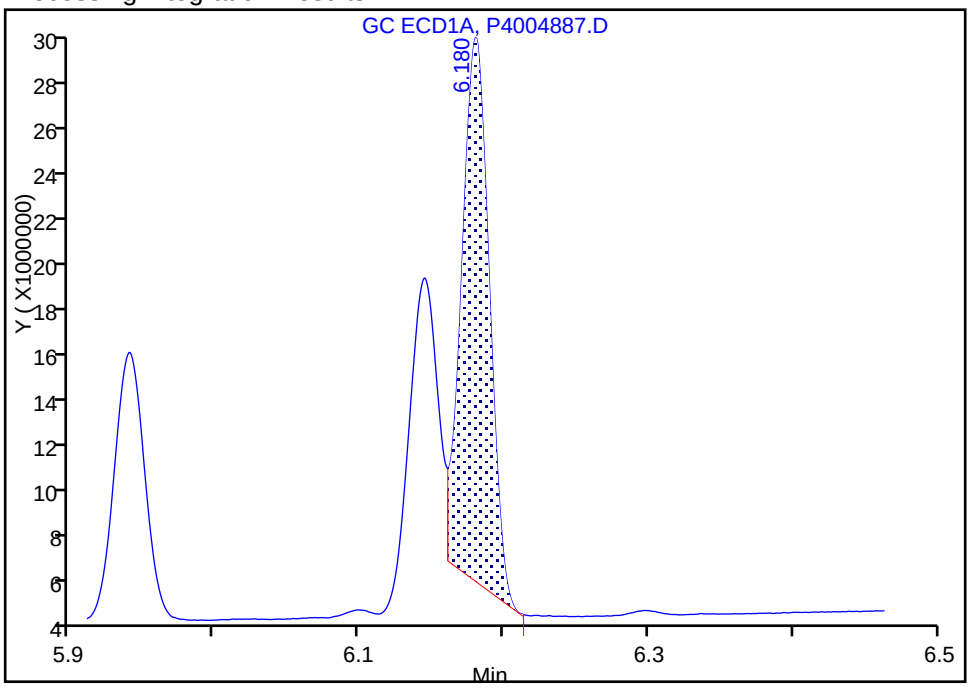
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

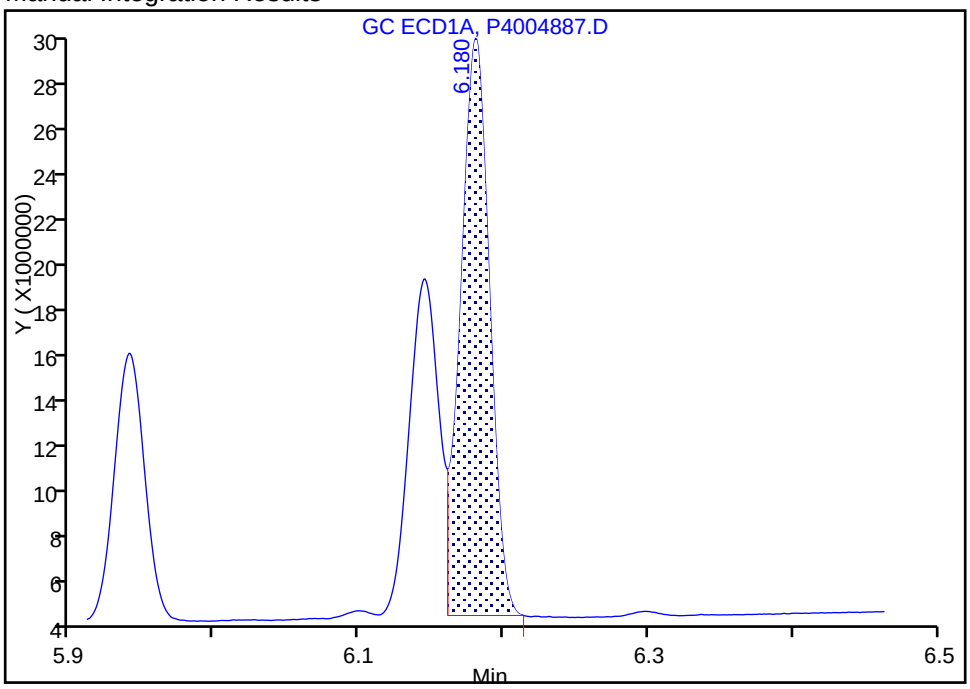
Processing Integration Results

RT: 6.18
Area: 30825032
Amount: 92.731217
Amount Units: ug/l



Manual Integration Results

RT: 6.18
Area: 34321892
Amount: 103.2509
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:28:54

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-465107/8 Calibration Date: 09/27/2017 09:40

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4004887.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.378	1.505		109	100	9.2	20.0
gamma-BHC (Lindane)	Ave	1.258	1.404		112	100	11.6	20.0
beta-BHC	Ave	0.5453	0.6017		110	100	10.3	20.0
delta-BHC	Ave	1.257	1.413		112	100	12.5	20.0
Heptachlor	Ave	1.235	1.373		111	100	11.2	20.0
Aldrin	Ave	1.143	1.257		110	100	10.0	20.0
Heptachlor epoxide	Ave	1.078	1.207		112	100	12.0	20.0
trans-Chlordane	Ave	1.071	1.202		112	100	12.2	20.0
cis-Chlordane	Ave	1.041	1.167		112	100	12.0	20.0
4,4'-DDE	Ave	1.034	1.178		114	100	14.0	20.0
Endosulfan I	Ave	1.016	1.167		115	100	14.8	20.0
Dieldrin	Ave	1.123	1.289		115	100	14.8	20.0
Endrin	Ave	1.039	1.176		113	100	13.2	20.0
4,4'-DDD	Ave	0.9016	1.006		112	100	11.6	20.0
Endosulfan II	Ave	0.9809	1.102		112	100	12.3	20.0
4,4'-DDT	Ave	0.9350	1.059		113	100	13.3	20.0
Endrin aldehyde	Ave	0.8182	0.9252		113	100	13.1	20.0
Methoxychlor	Ave	0.5238	0.5634		108	100	7.5	20.0
Mirex	Ave	0.7185	0.7646		106	100	6.4	20.0
Endosulfan sulfate	Ave	1.001	1.108		111	100	10.7	20.0
Endrin ketone	Ave	1.132	1.269		112	100	12.1	20.0
Tetrachloro-m-xylene	Ave	0.9467	1.006		106	100	6.3	20.0
DCB Decachlorobiphenyl	Ave	0.9059	0.998		110	100	10.2	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-465107/8 Calibration Date: 09/27/2017 09:40

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4004887.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.21	2.20	2.22
gamma-BHC (Lindane)	2.40	2.39	2.41
beta-BHC	2.45	2.44	2.46
delta-BHC	2.56	2.56	2.58
Heptachlor	2.70	2.69	2.71
Aldrin	2.91	2.90	2.92
Heptachlor epoxide	3.36	3.35	3.37
trans-Chlordane	3.47	3.45	3.47
cis-Chlordane	3.58	3.57	3.59
4,4'-DDE	3.64	3.62	3.64
Endosulfan I	3.71	3.70	3.72
Dieldrin	3.95	3.94	3.96
Endrin	4.20	4.19	4.21
4,4'-DDD	4.26	4.25	4.27
Endosulfan II	4.44	4.43	4.45
4,4'-DDT	4.56	4.55	4.57
Endrin aldehyde	4.84	4.83	4.85
Methoxychlor	4.97	4.96	4.98
Mirex	5.07	5.00	5.14
Endosulfan sulfate	5.15	5.13	5.15
Endrin ketone	5.33	5.25	5.39
Tetrachloro-m-xylene	1.89	1.88	1.90
DCB Decachlorobiphenyl	6.12	6.02	6.22

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Lims ID: ICV PEST
Client ID:
Sample Type: ICV
Inject. Date: 27-Sep-2017 09:40:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-008
Operator ID: Instrument ID: CPESTGC4
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 10:20:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.684	1.681	0.003	31405718	100.0	100.0	
2	1.512	1.514	-0.002	39607967	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.239	2.233	0.006	31631148	100.0	100.9	
2	1.885	1.887	-0.002	39843871	100.0	106.3	
						RPD = 5.14	
15 alpha-BHC							
1	2.662	2.654	0.008	46355872	100.0	102.5	
2	2.208	2.210	-0.002	59609628	100.0	109.2	
						RPD = 6.33	
2 gamma-BHC (Lindane)							M
1	2.931	2.921	0.010	43271264	100.0	103.0	
2	2.401	2.402	-0.001	55609903	100.0	111.6	M
						RPD = 7.94	
6 beta-BHC							M
1	2.980	2.970	0.010	18674299	100.0	101.8	a
2	2.448	2.449	-0.001	23831924	100.0	110.3	M
						RPD = 8.01	
32 delta-BHC							M
1	3.231	3.220	0.011	43692706	100.0	102.0	a
2	2.564	2.565	-0.001	55968619	100.0	112.5	M
						RPD = 9.73	
18 Heptachlor							M
1	3.308	3.297	0.011	42236793	100.0	101.4	a
2	2.699	2.700	-0.001	54373197	100.0	111.2	M
						RPD = 9.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.618	3.605	0.013	39272287	100.0	100.0	a
2	2.907	2.907	0.000	49792323	100.0	110.0	M
						RPD = 9.48	
12 Heptachlor epoxide							M
1	4.228	4.211	0.017	36910390	100.0	103.3	a
2	3.363	3.362	0.001	47807671	100.0	112.0	M
						RPD = 8.08	
9 gamma-Chlordane							M
1	4.435	4.420	0.015	35839876	100.0	100.2	a
2	3.465	3.464	0.001	47610804	100.0	112.2	M
						RPD = 11.27	
23 alpha-Chlordane							M
1	4.595	4.580	0.015	33686640	100.0	99.6	a
2	3.581	3.580	0.001	46217441	100.0	112.0	M
						RPD = 11.72	
7 Endosulfan I							M
1	4.663	4.651	0.012	32663735	100.0	99.7	a
2	3.713	3.712	0.001	46208085	100.0	114.8	M
						RPD = 14.04	
25 4,4'-DDE							M
1	4.736	4.723	0.013	34489192	100.0	102.2	a
2	3.636	3.634	0.002	46661815	100.0	114.0	M
						RPD = 10.91	
30 Dieldrin							M
1	4.898	4.887	0.011	36527571	100.0	101.9	a
2	3.948	3.946	0.002	51034966	100.0	114.8	M
						RPD = 11.83	
20 Endrin							M
1	5.122	5.112	0.010	32524450	100.0	102.6	
2	4.203	4.200	0.003	46578028	100.0	113.2	M
						RPD = 9.86	
16 4,4'-DDD							M
1	5.177	5.166	0.011	28531141	100.0	101.0	a
2	4.258	4.256	0.002	39841508	100.0	111.6	M
						RPD = 9.95	
11 Endosulfan II							
1	5.263	5.254	0.009	31025761	100.0	101.5	
2	4.443	4.439	0.004	43630873	100.0	112.3	
						RPD = 10.06	
21 4,4'-DDT							
1	5.391	5.381	0.010	30414147	100.0	101.9	
2	4.561	4.557	0.004	41946947	100.0	113.3	
						RPD = 10.61	
5 Endrin aldehyde							
1	5.492	5.482	0.010	26293708	100.0	102.3	
2	4.838	4.835	0.003	36644595	100.0	113.1	
						RPD = 10.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.703	5.692	0.011	30223949	100.0	102.4	a
2	5.147	5.143	0.004	43877426	100.0	110.7	a
						RPD = 7.77	
10 Methoxychlor							
1	5.940	5.928	0.012	16959042	100.0	104.1	a
2	4.973	4.969	0.004	22313734	100.0	107.5	a
						RPD = 3.29	
34 Mirex							M
1	6.145	6.133	0.012	20659451	100.0	99.0	M
2	5.068	5.065	0.003	30282202	100.0	106.4	
						RPD = 7.26	
13 Endrin ketone							M
1	6.180	6.169	0.011	34321892	100.0	103.3	M
2	5.327	5.323	0.004	50248084	100.0	112.1	
						RPD = 8.21	
$ 24 DCB Decachlorobiphenyl							
1	7.101	7.093	0.008	23913404	100.0	103.1	
2	6.123	6.117	0.006	39539288	100.0	110.2	
						RPD = 6.61	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

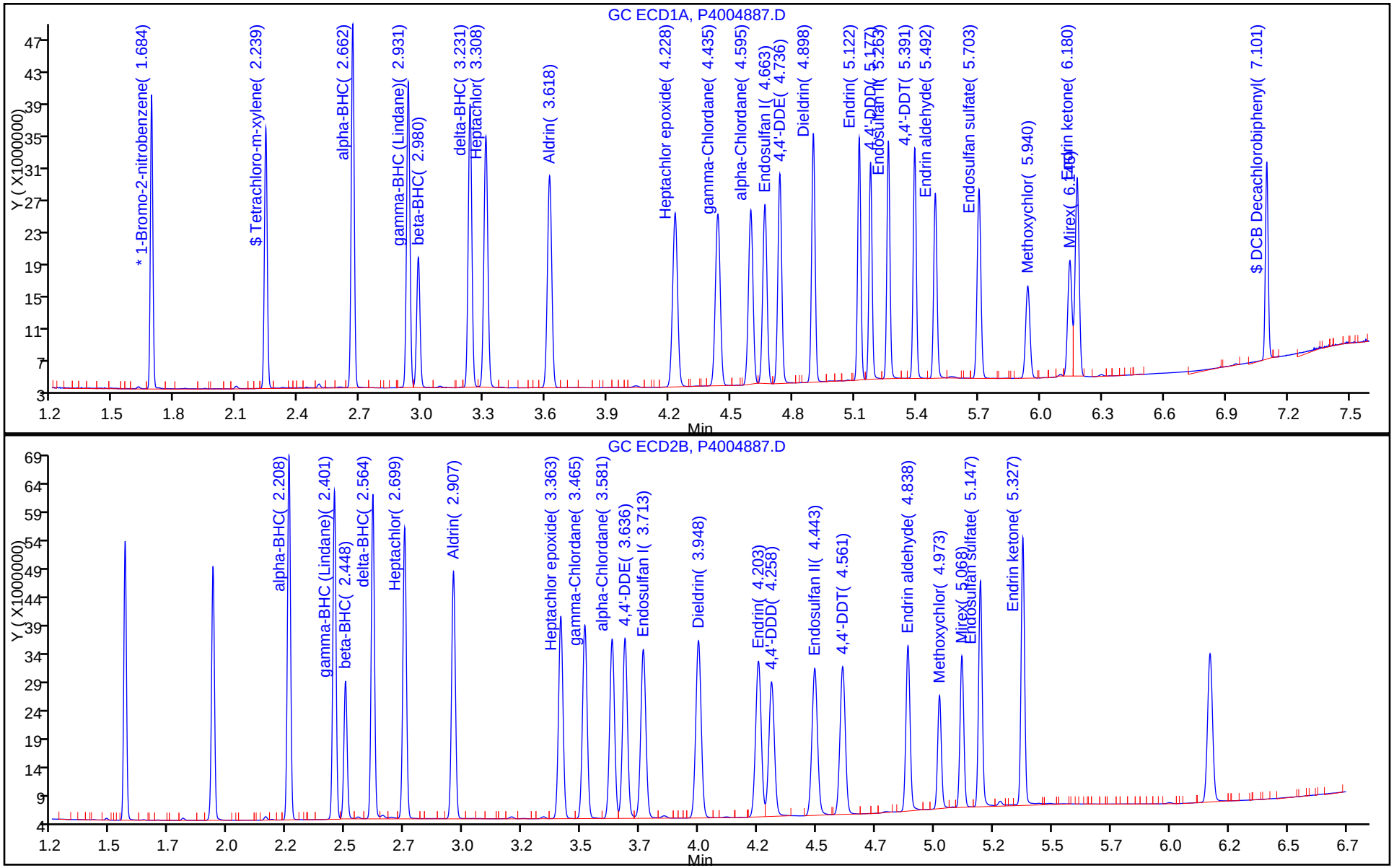
SGPTICV_00034	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D

Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	ICV PEST			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

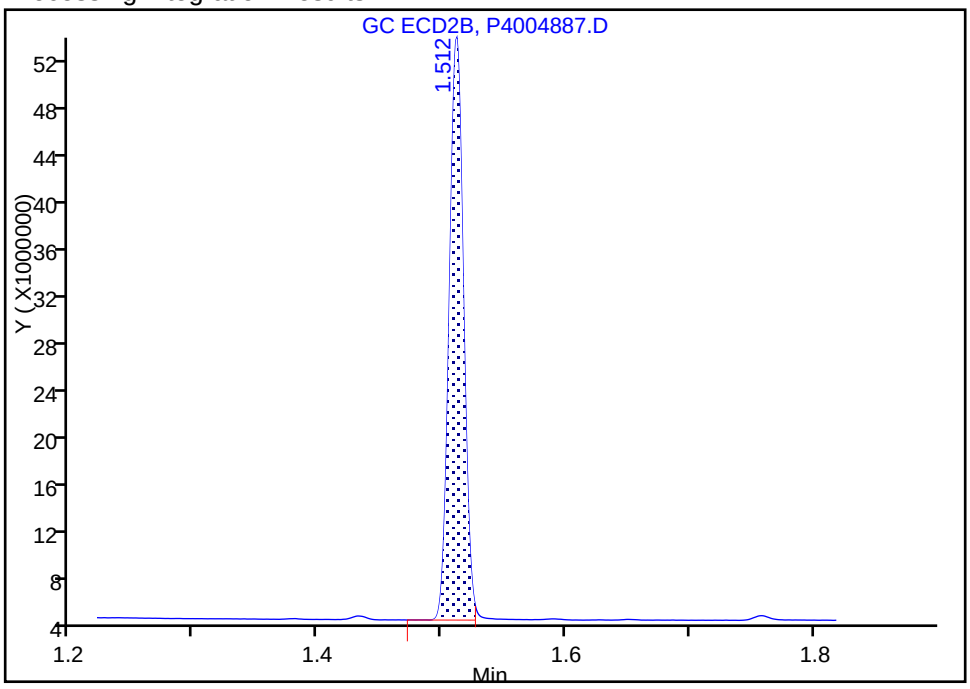
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

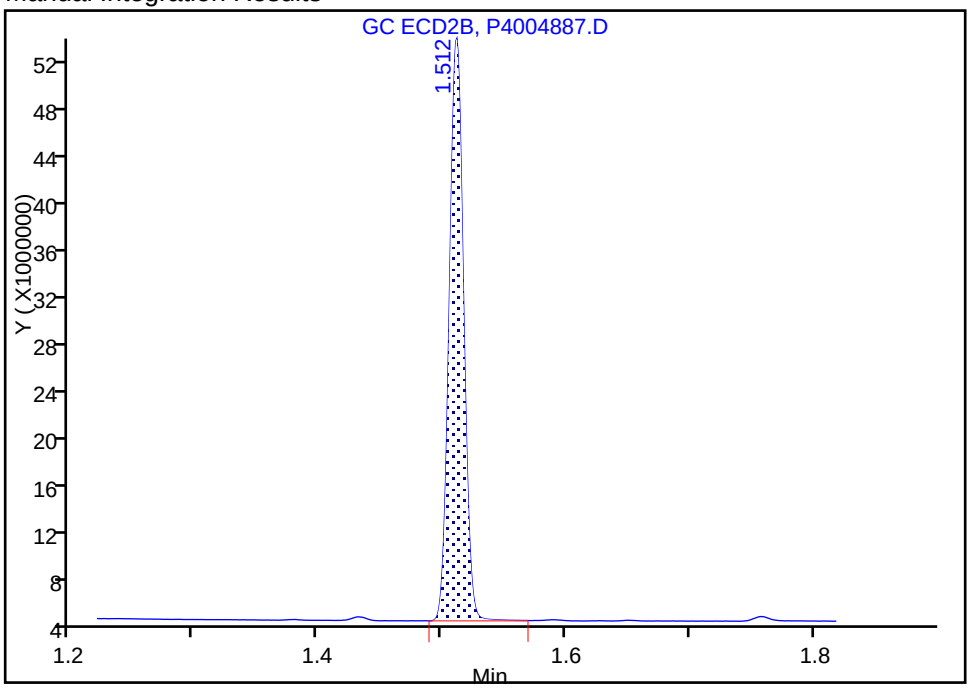
Processing Integration Results

RT: 1.51
Area: 39276361
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 39607967
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:33:30

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

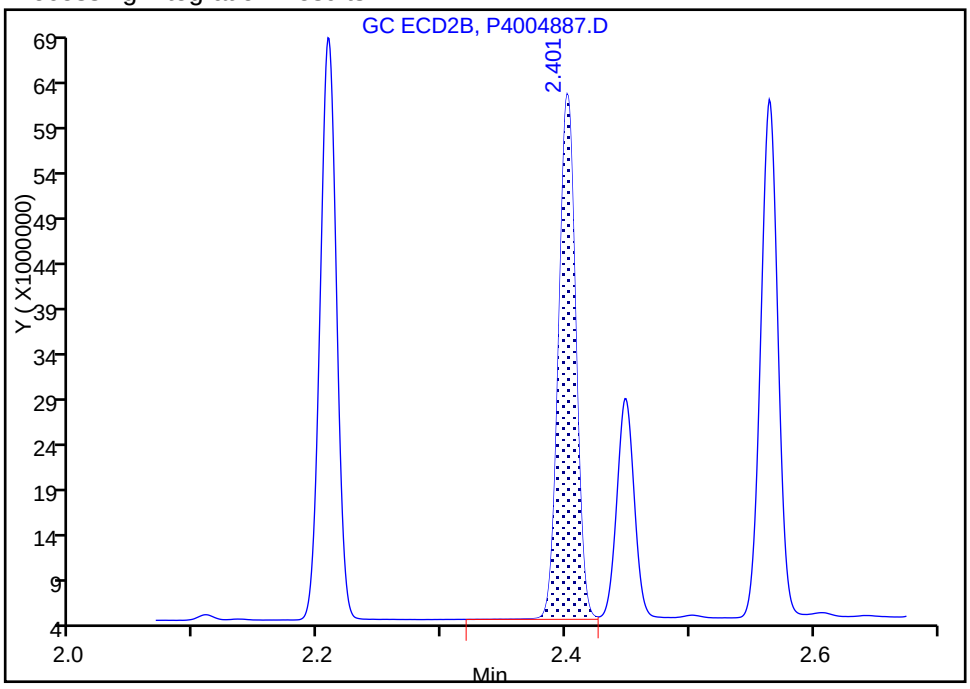
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 2

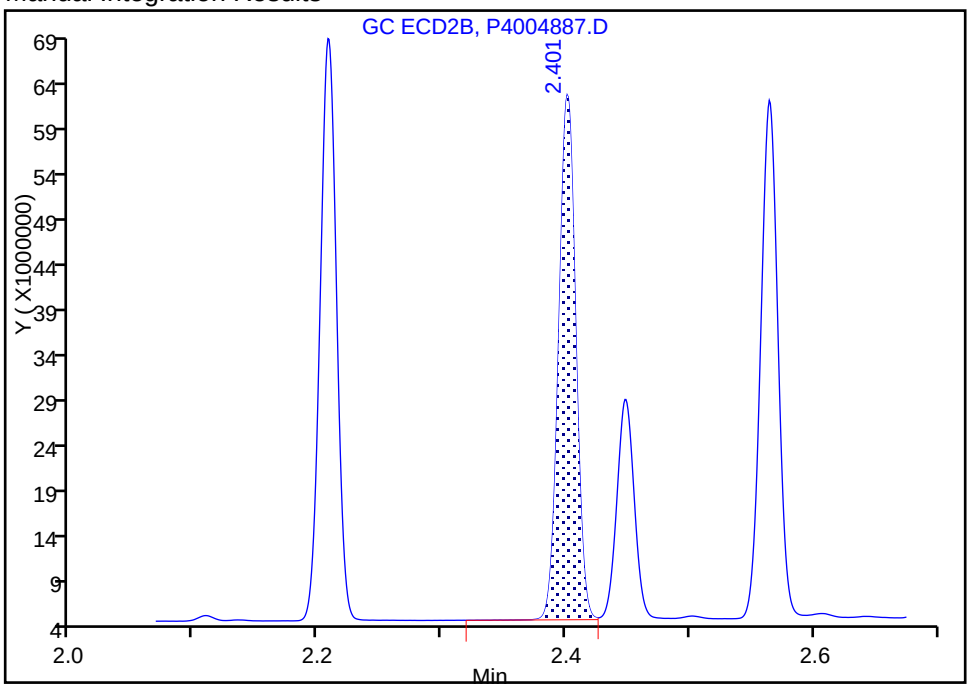
Processing Integration Results

RT: 2.40
Area: 55796469
Amount: 113.3544
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 55609903
Amount: 111.5688
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

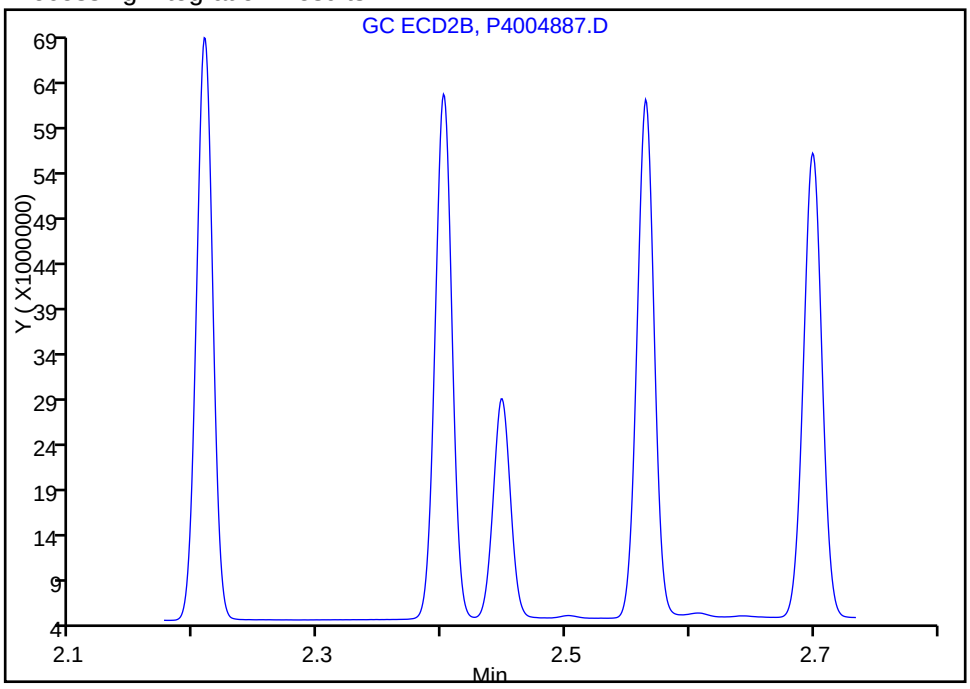
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

6 beta-BHC, CAS: 319-85-7

Signal: 2

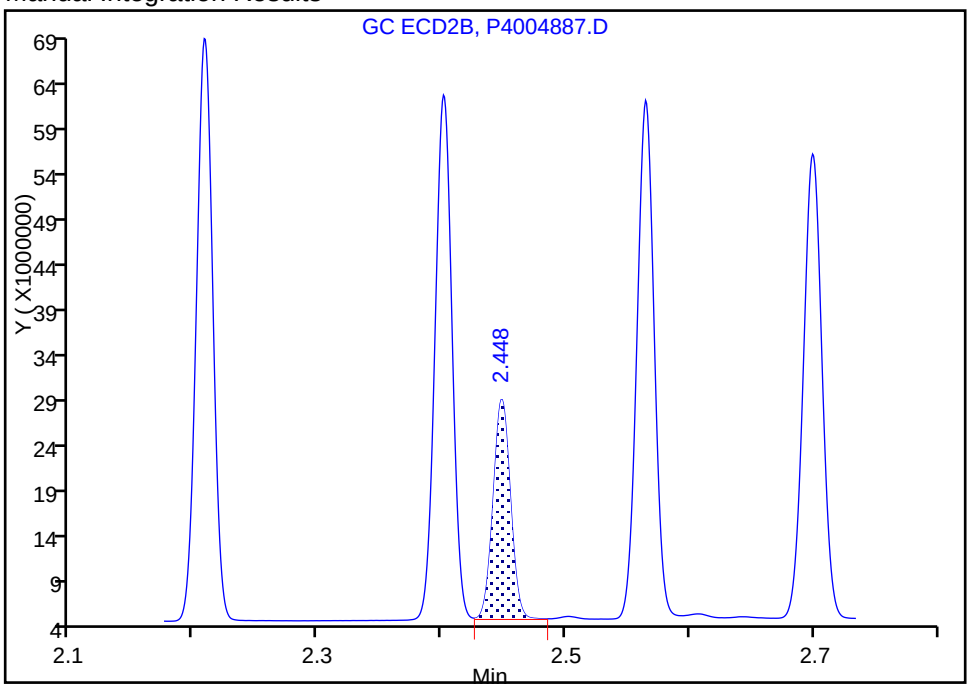
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 23831924
Amount: 110.3385
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:12
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

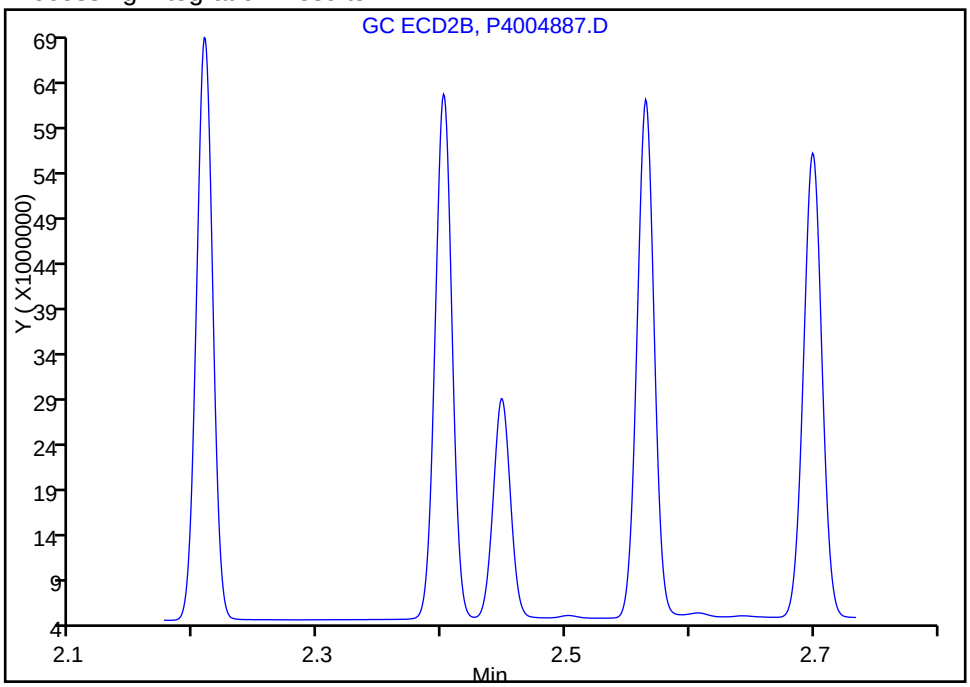
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

6 beta-BHC, CAS: 319-85-7

Signal: 2

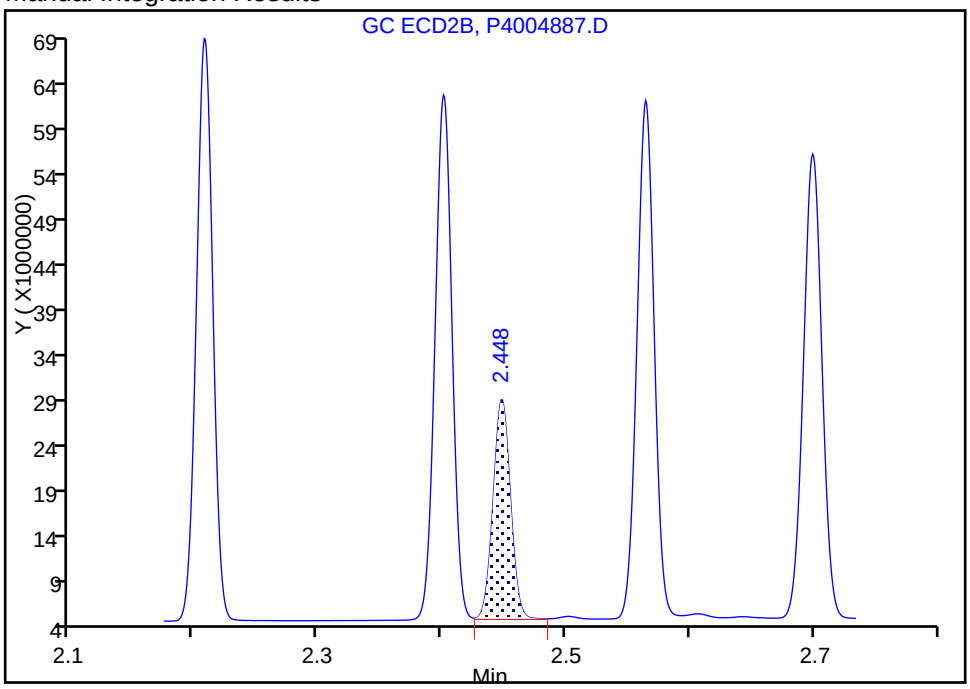
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 23831924
Amount: 110.3385
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:30
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

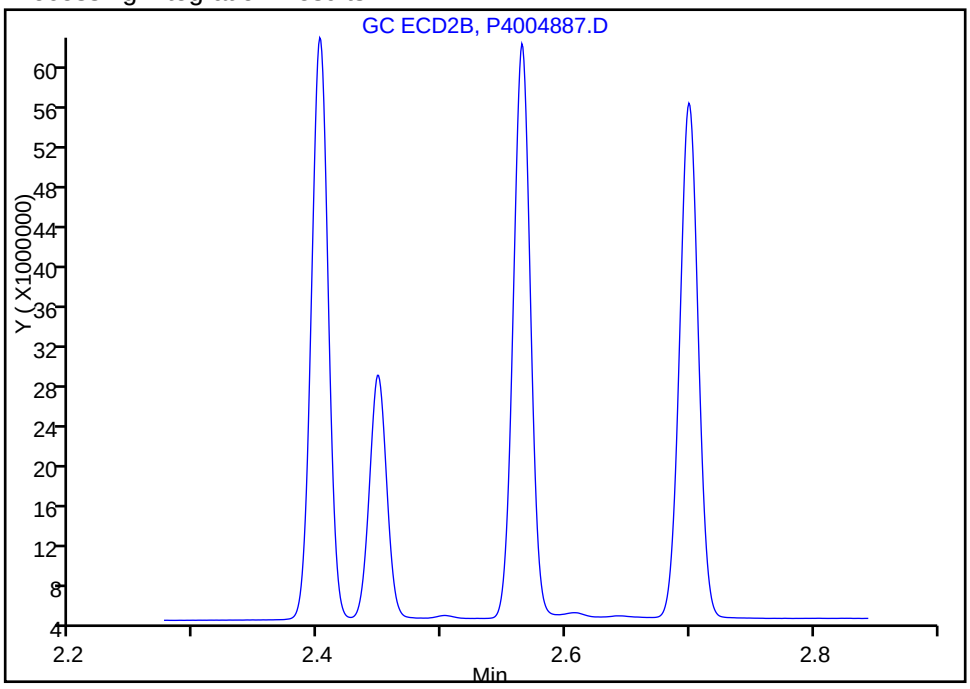
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

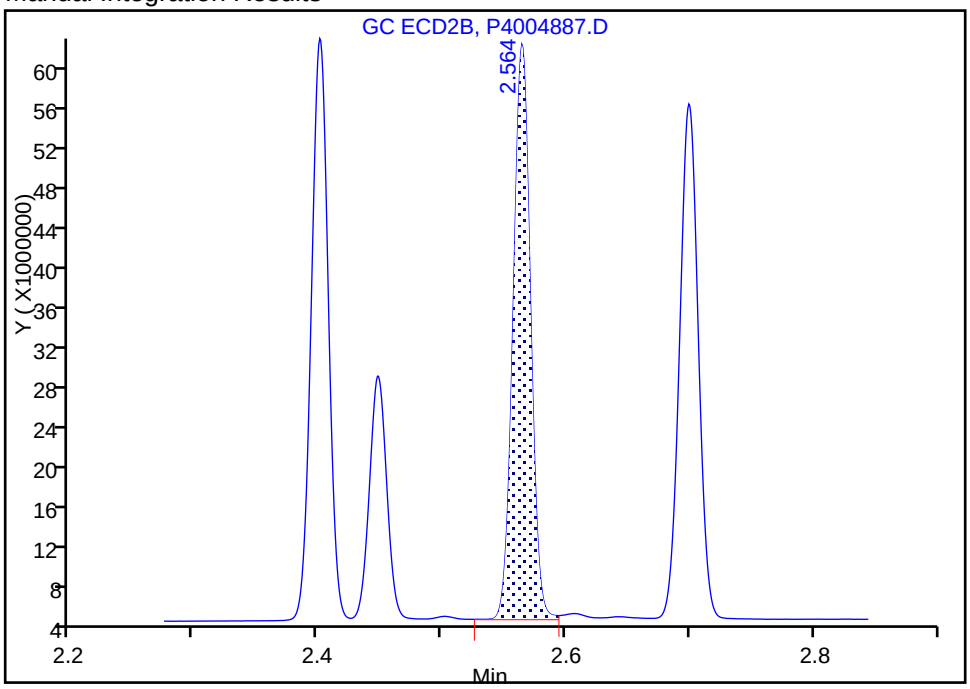
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 55968619
Amount: 112.4511
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:26
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

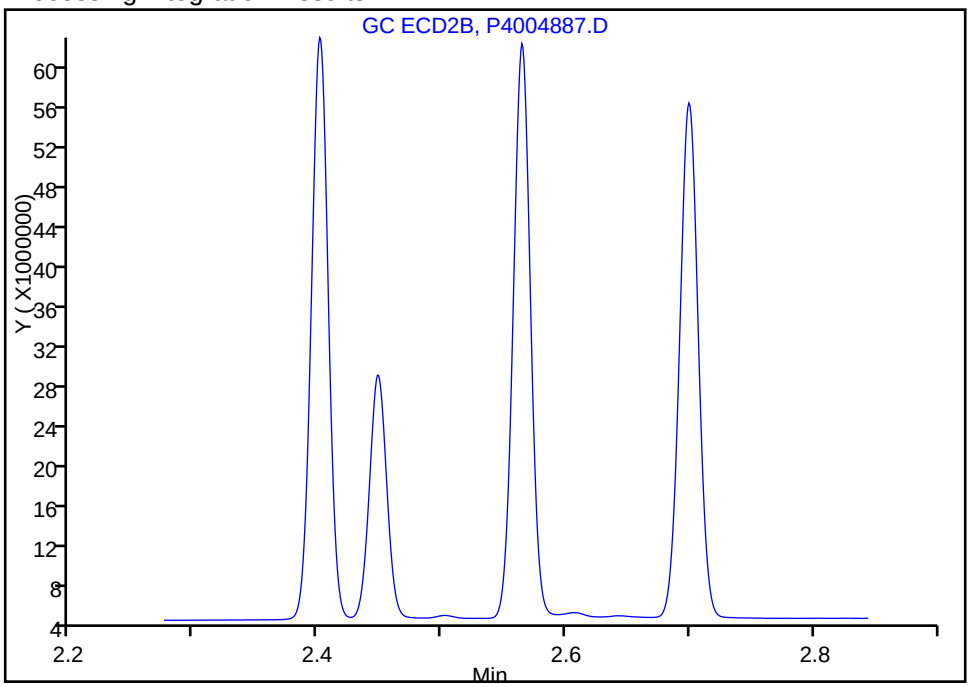
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

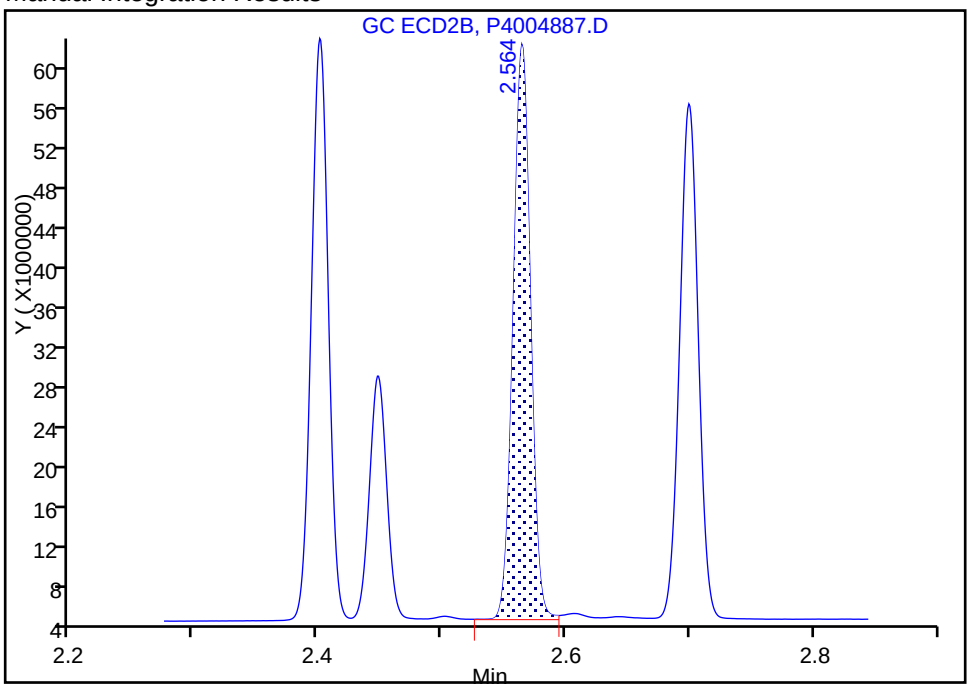
Processing Integration Results

Not Detected
Expected RT: 2.56



Manual Integration Results

RT: 2.56
Area: 55968619
Amount: 112.4511
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:30
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

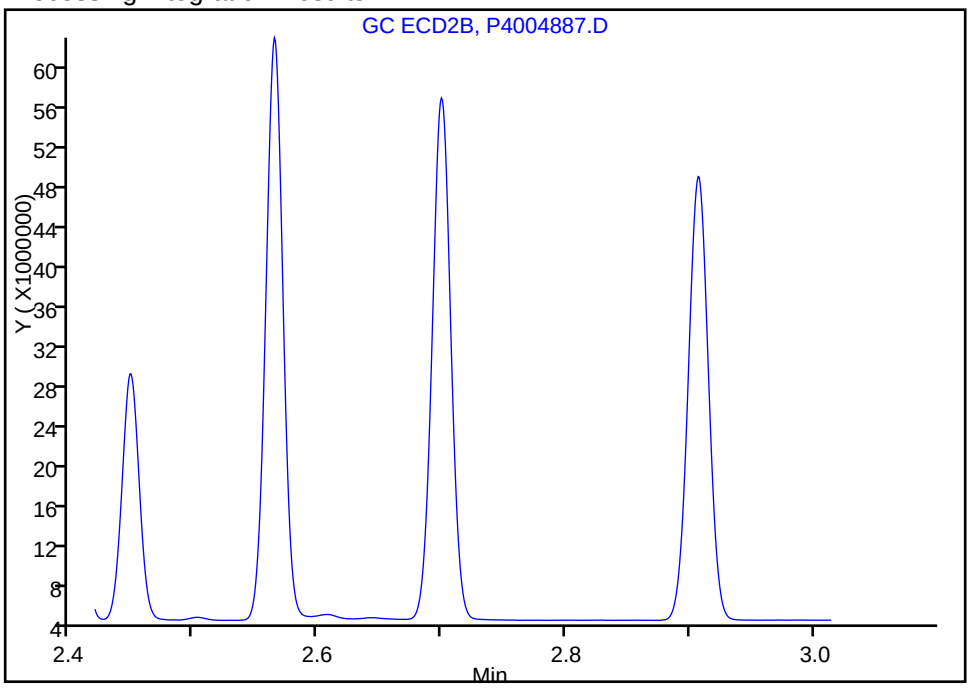
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

18 Heptachlor, CAS: 76-44-8

Signal: 2

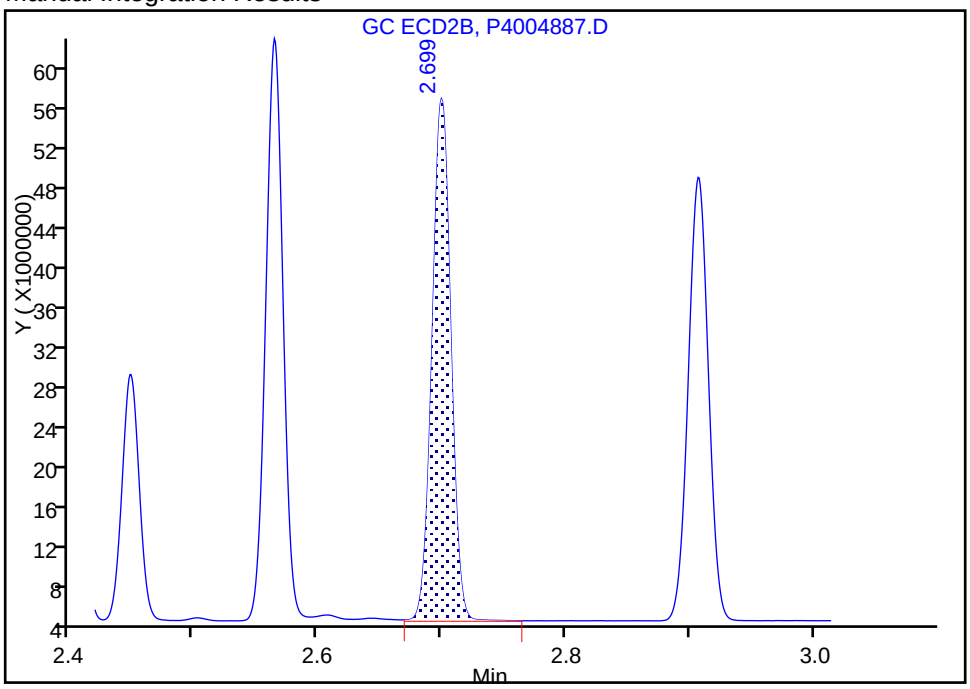
Processing Integration Results

Not Detected
Expected RT: 2.70



Manual Integration Results

RT: 2.70
Area: 54373197
Amount: 111.1746
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:39
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

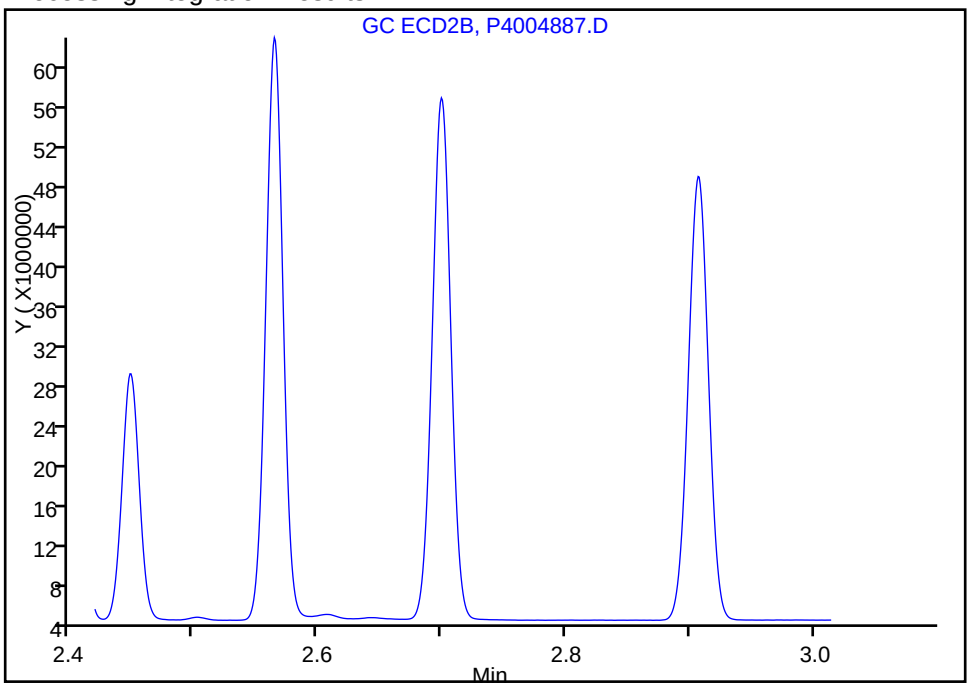
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

18 Heptachlor, CAS: 76-44-8

Signal: 2

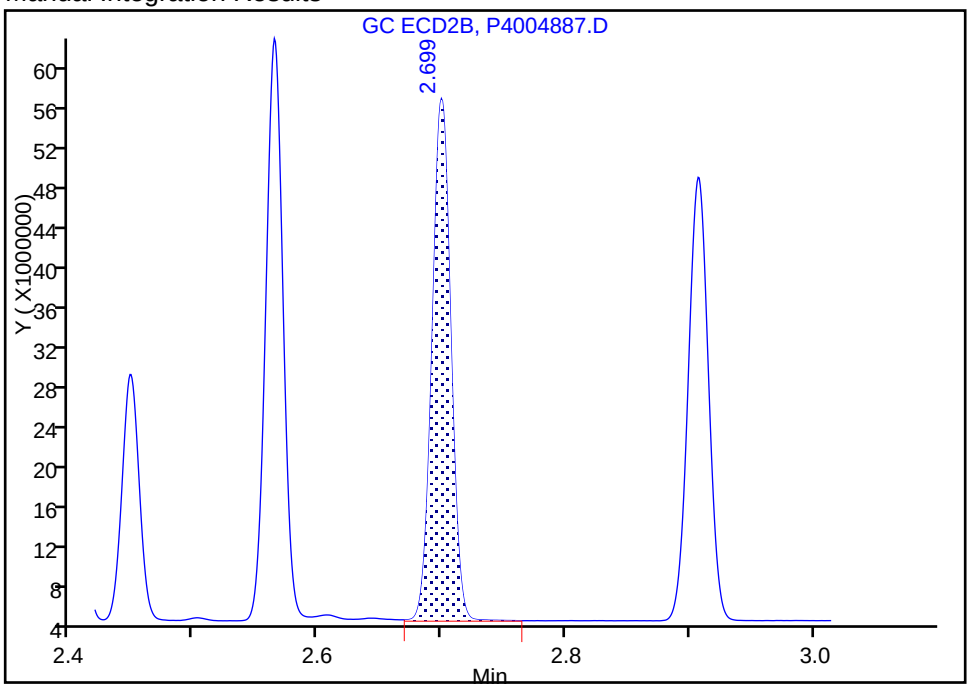
Not Detected
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.70
Area: 54373197
Amount: 111.1746
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:30
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D

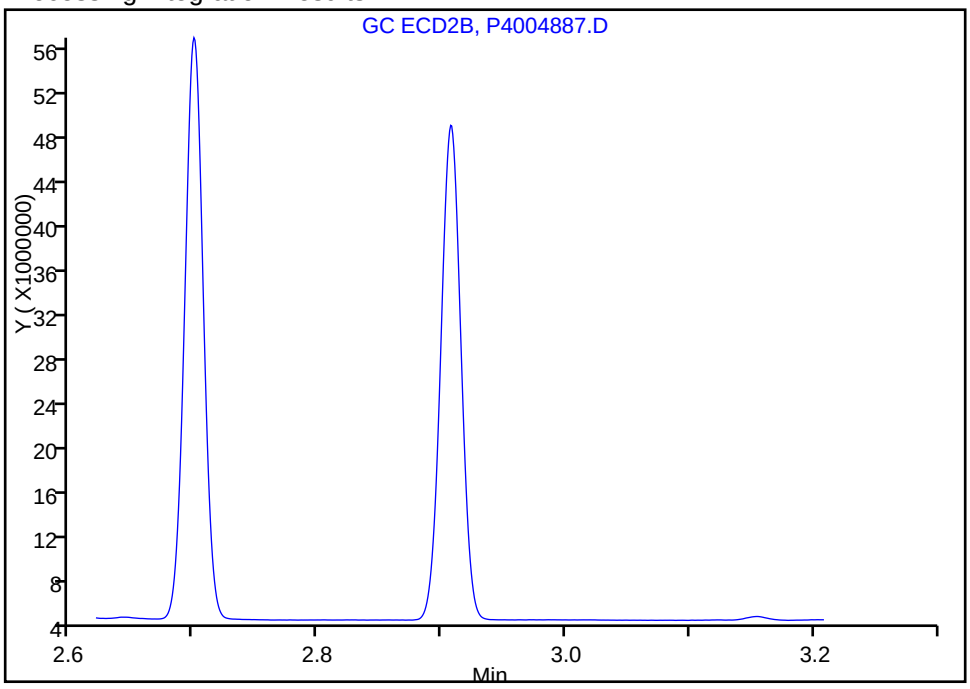
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4
Lims ID:	ICV PEST		
Client ID:			
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

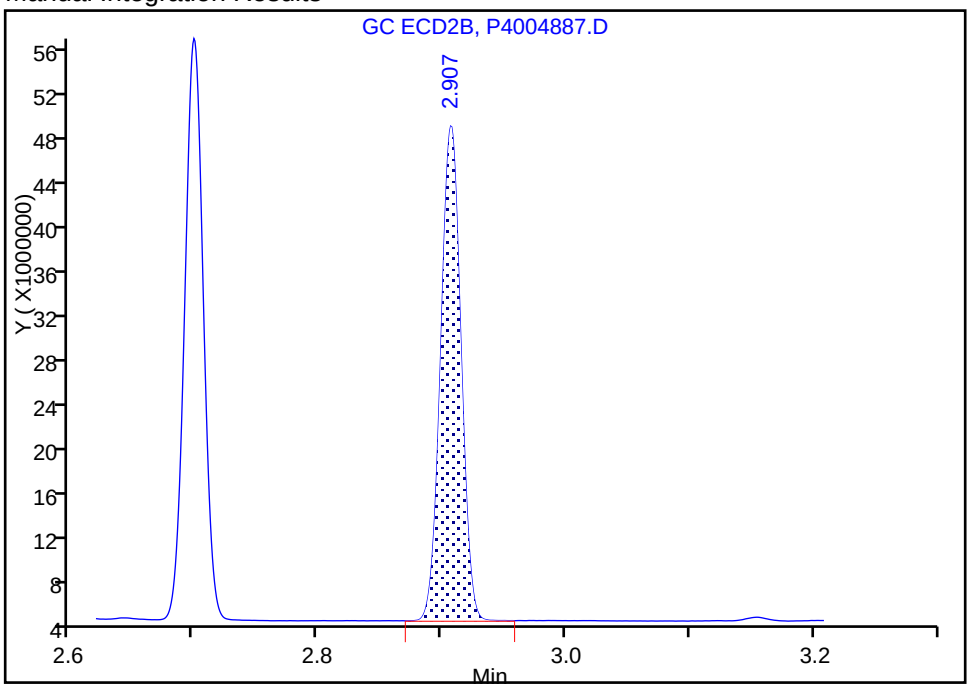
Not Detected
Expected RT: 2.91

Processing Integration Results



Manual Integration Results

RT: 2.91
Area: 49792323
Amount: 109.9842
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:25:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D

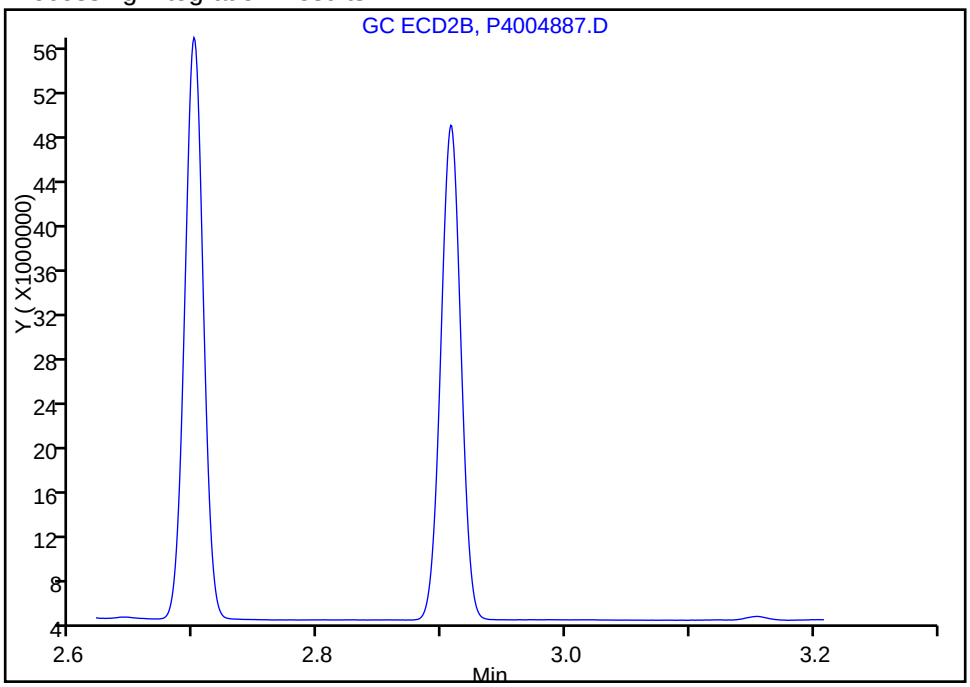
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4
Lims ID:	ICV PEST		
Client ID:			
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

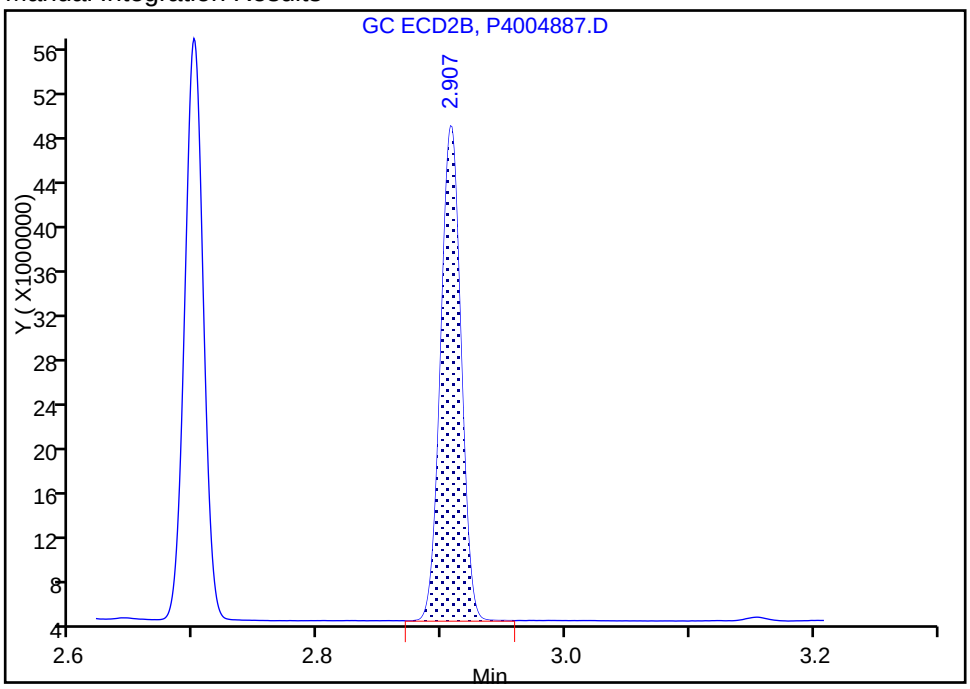
Processing Integration Results

Not Detected
Expected RT: 2.91



Manual Integration Results

RT: 2.91
Area: 49792323
Amount: 109.9842
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:30
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

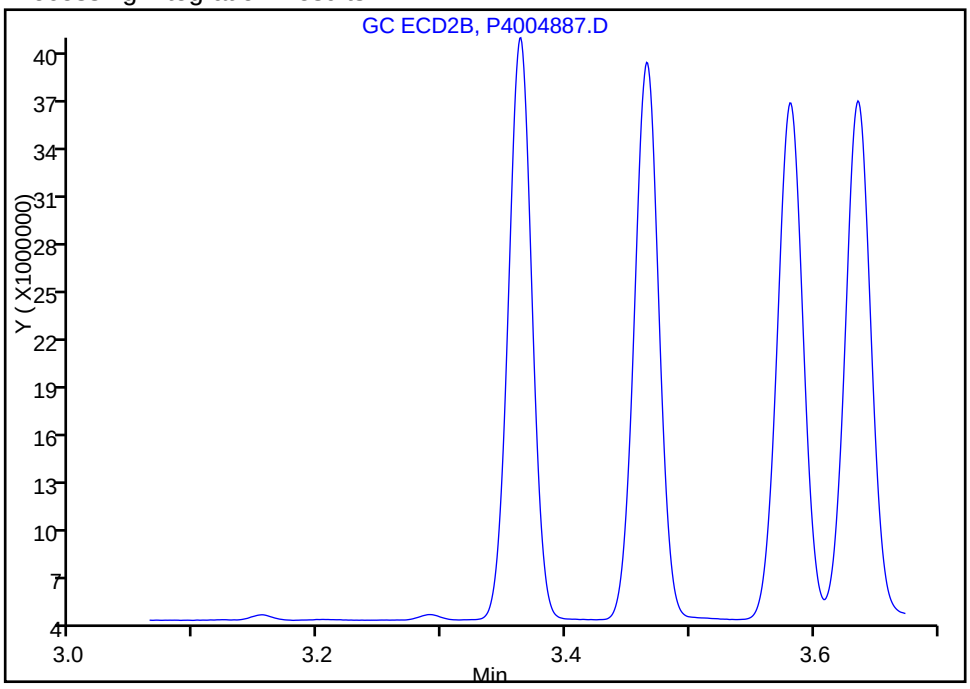
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

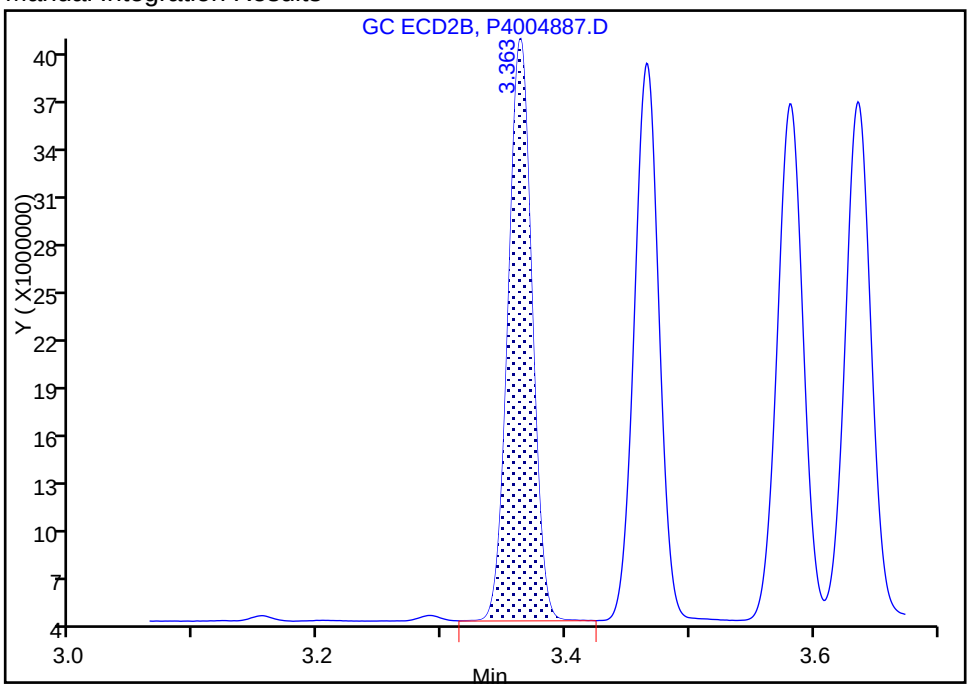
Not Detected
Expected RT: 3.36

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 47807671
Amount: 111.9964
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:26:46
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

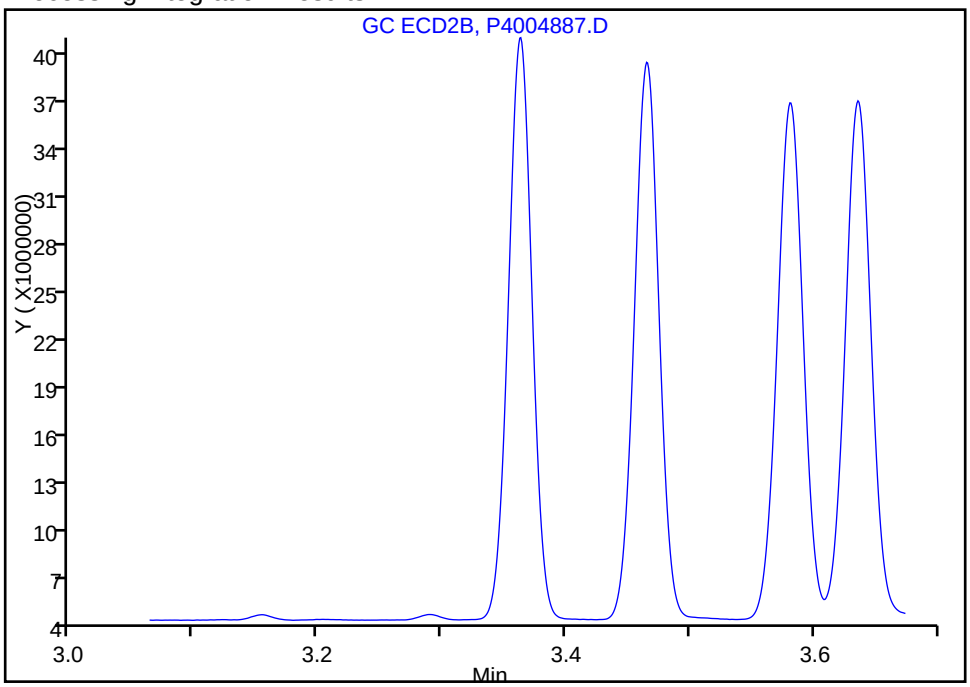
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

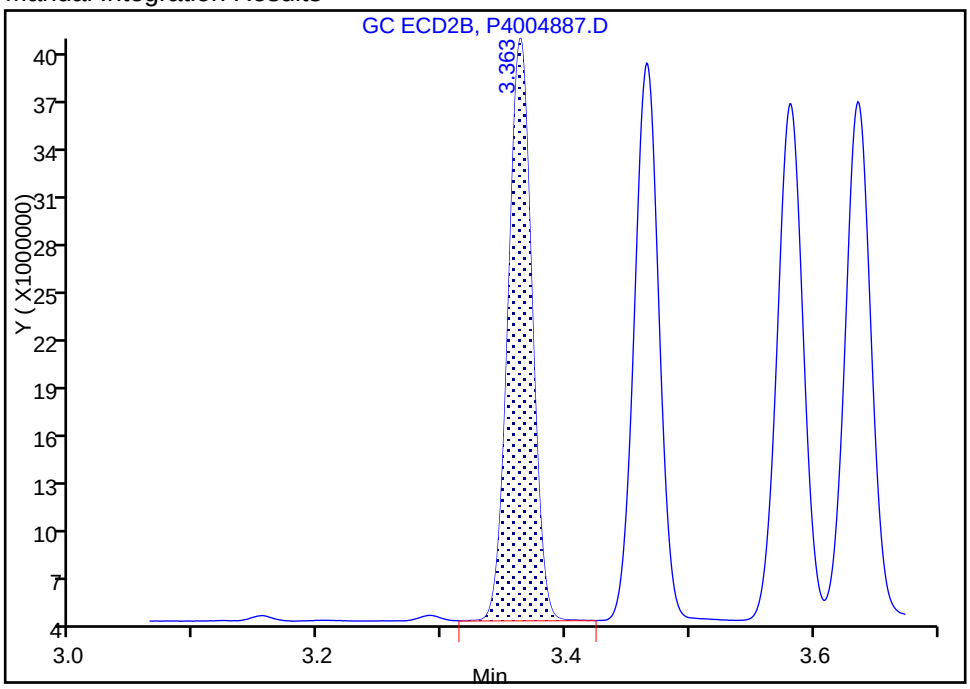
Not Detected
Expected RT: 3.36

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 47807671
Amount: 111.9964
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

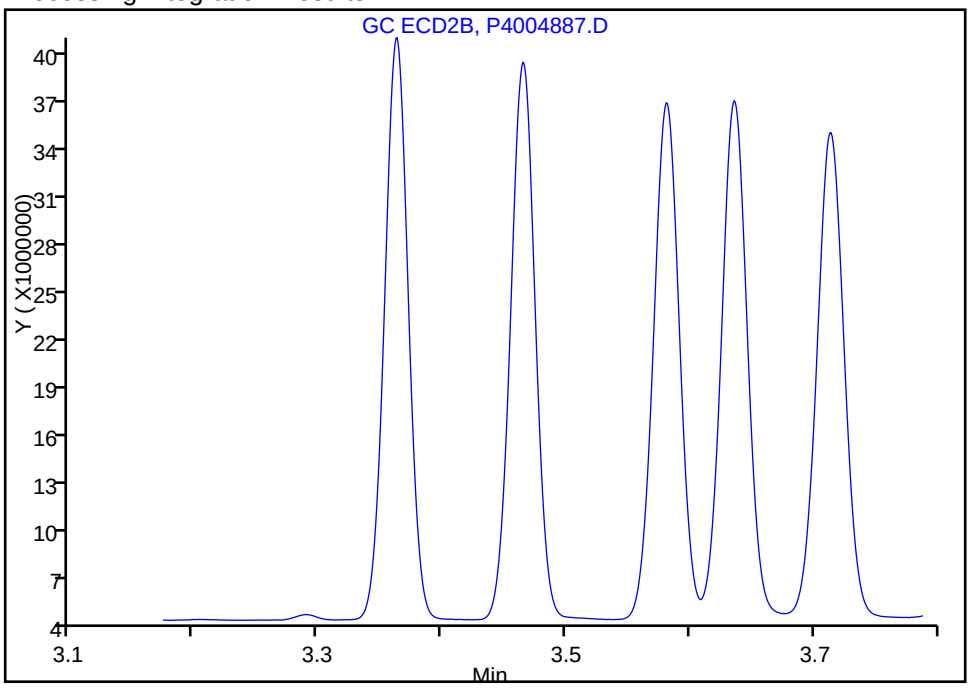
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

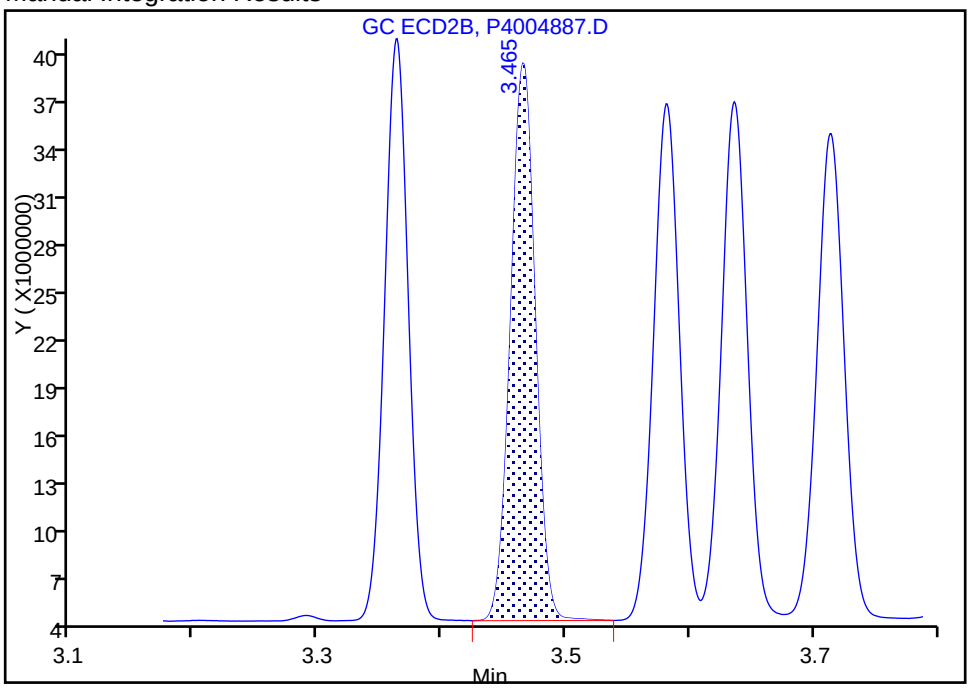
Processing Integration Results

Not Detected
Expected RT: 3.46



Manual Integration Results

RT: 3.47
Area: 47610804
Amount: 112.2177
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:26:59
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

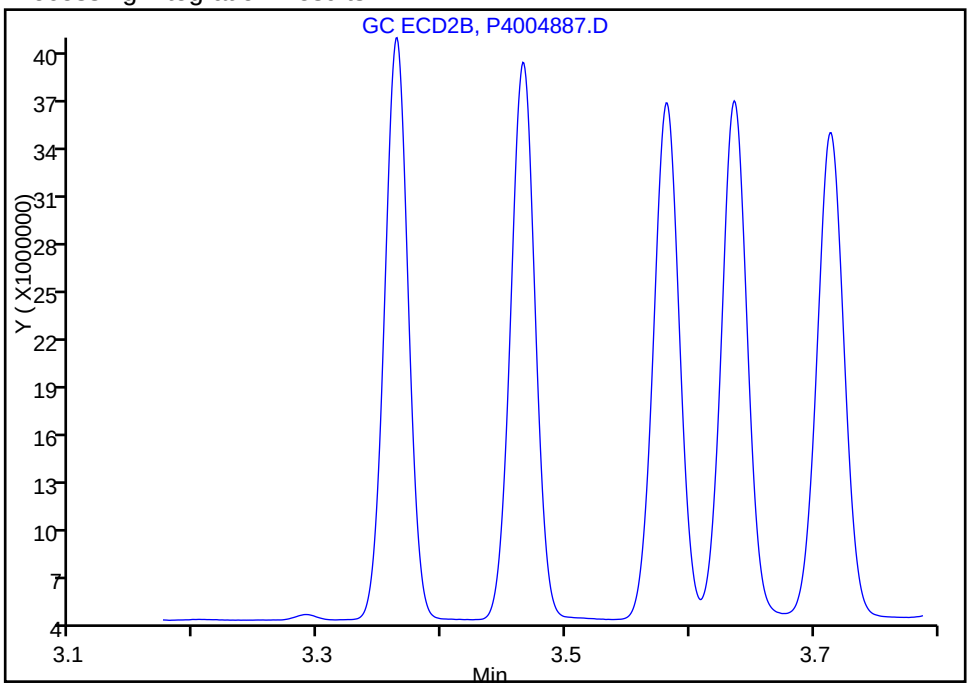
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

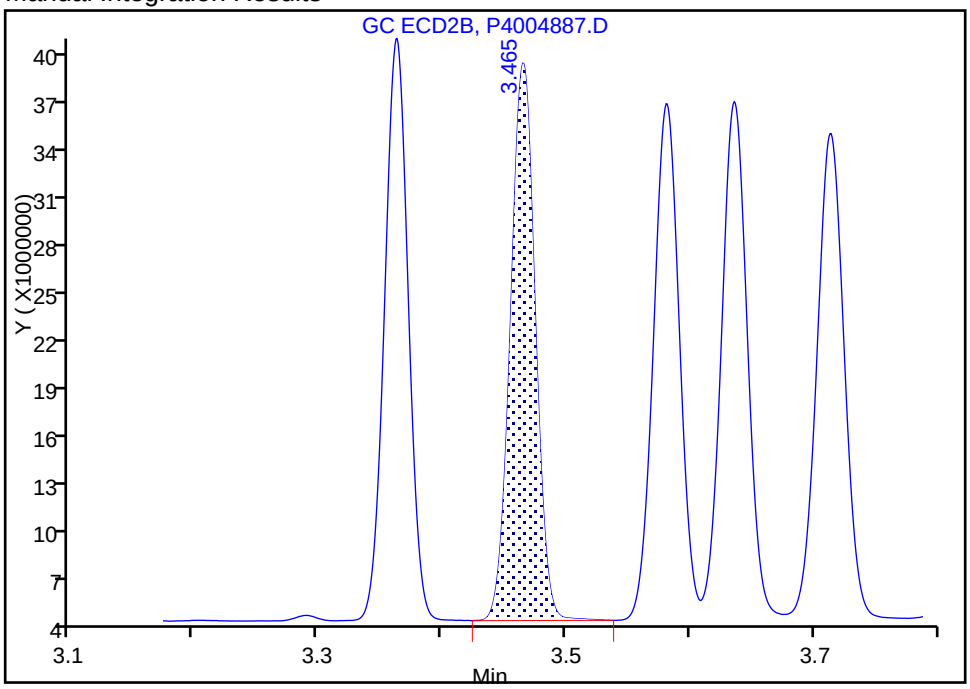
Processing Integration Results

Not Detected
Expected RT: 3.46



Manual Integration Results

RT: 3.47
Area: 47610804
Amount: 112.2177
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

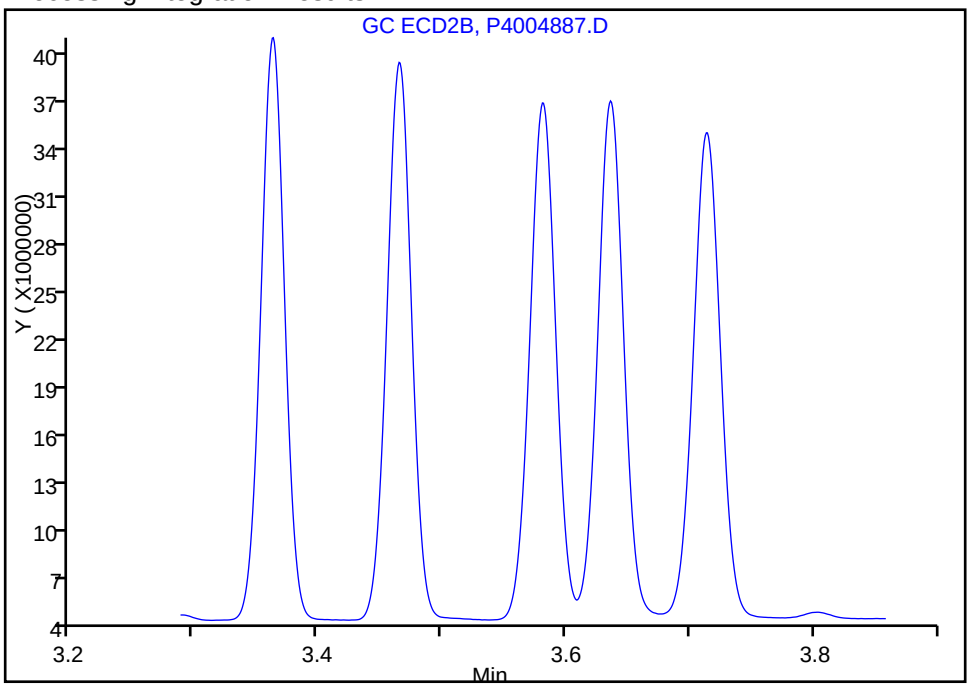
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

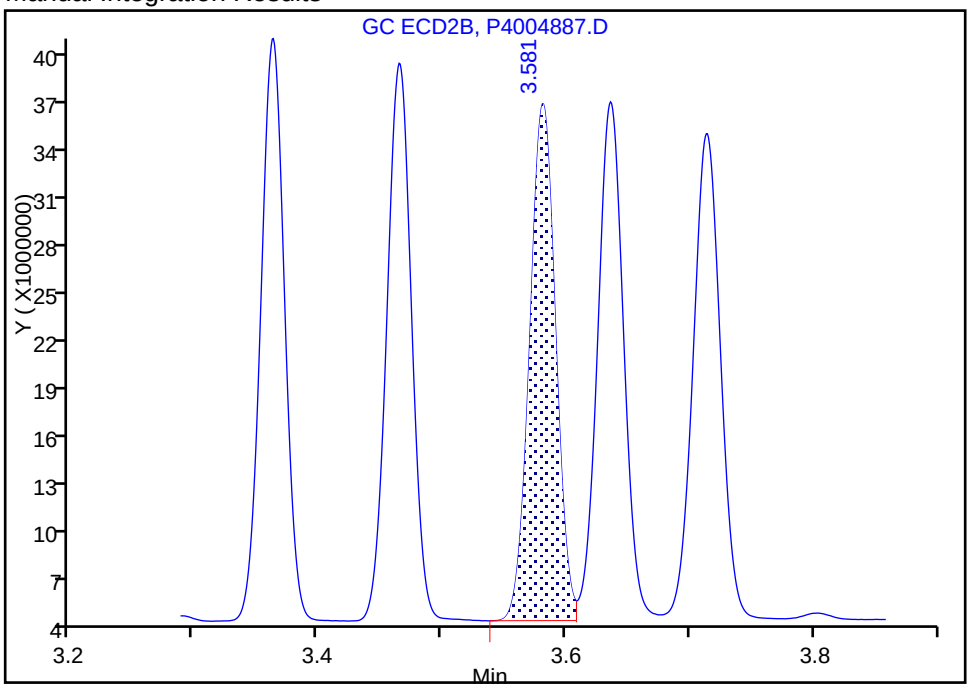
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 46217441
Amount: 112.0419
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:12
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

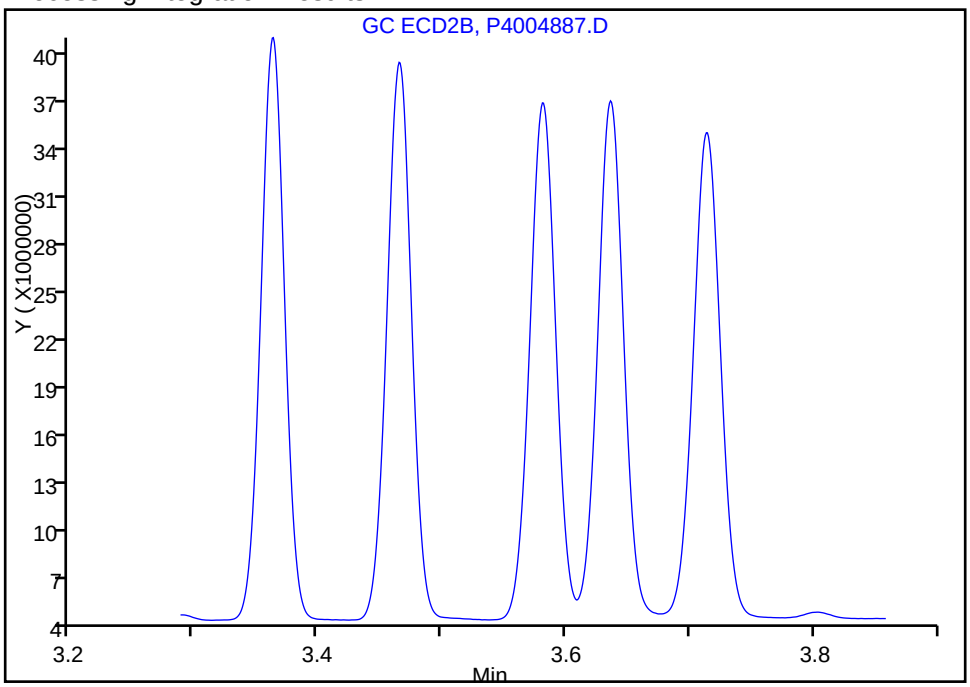
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

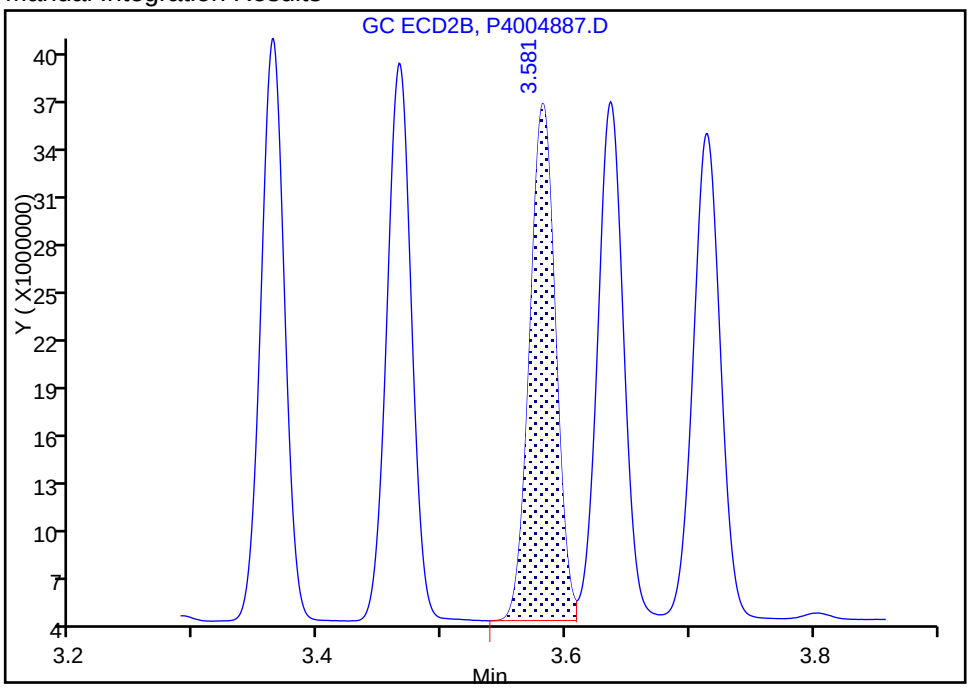
Processing Integration Results

Not Detected
Expected RT: 3.58



Manual Integration Results

RT: 3.58
Area: 46217441
Amount: 112.0419
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

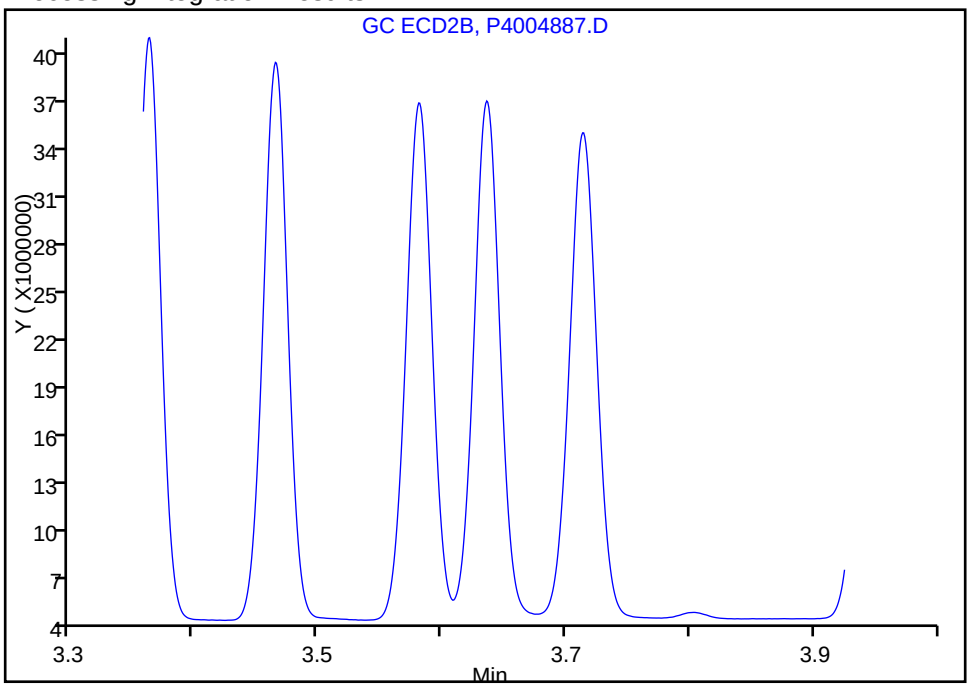
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

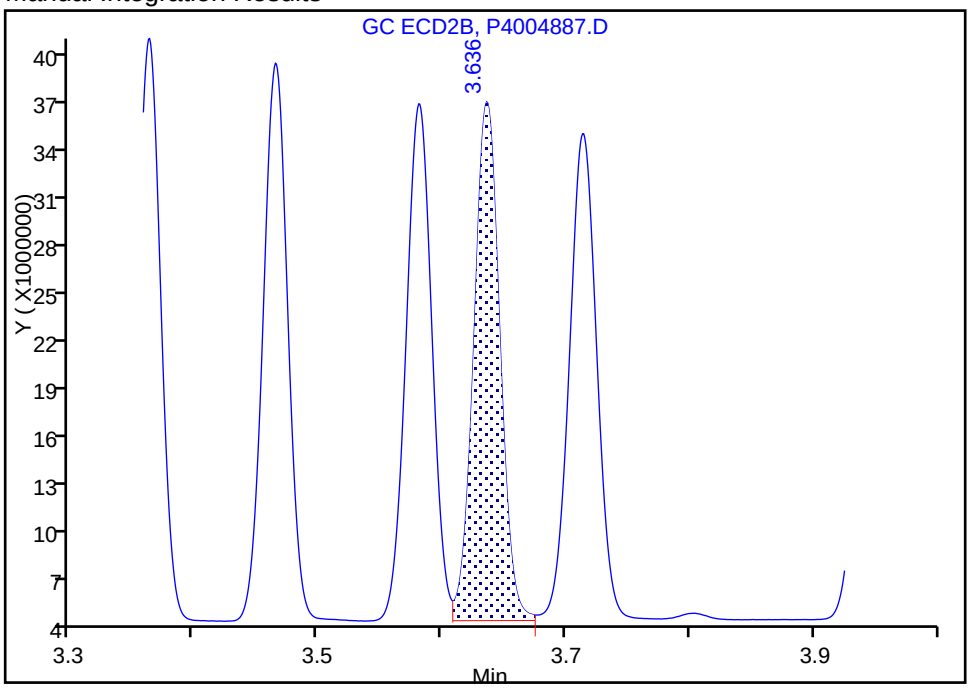
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 46661815
Amount: 113.9718
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:45
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

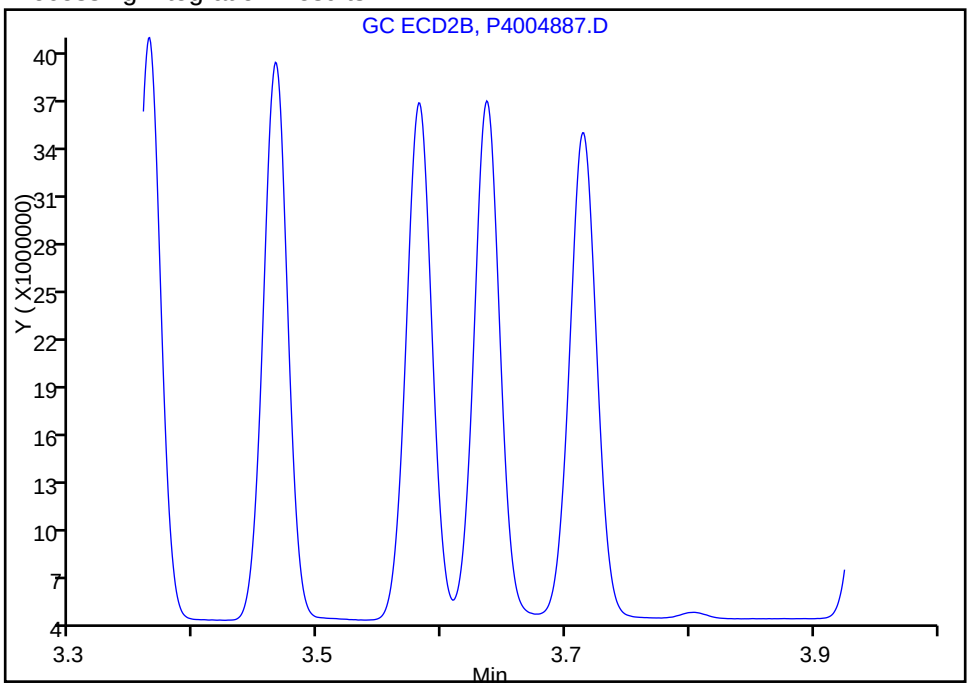
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

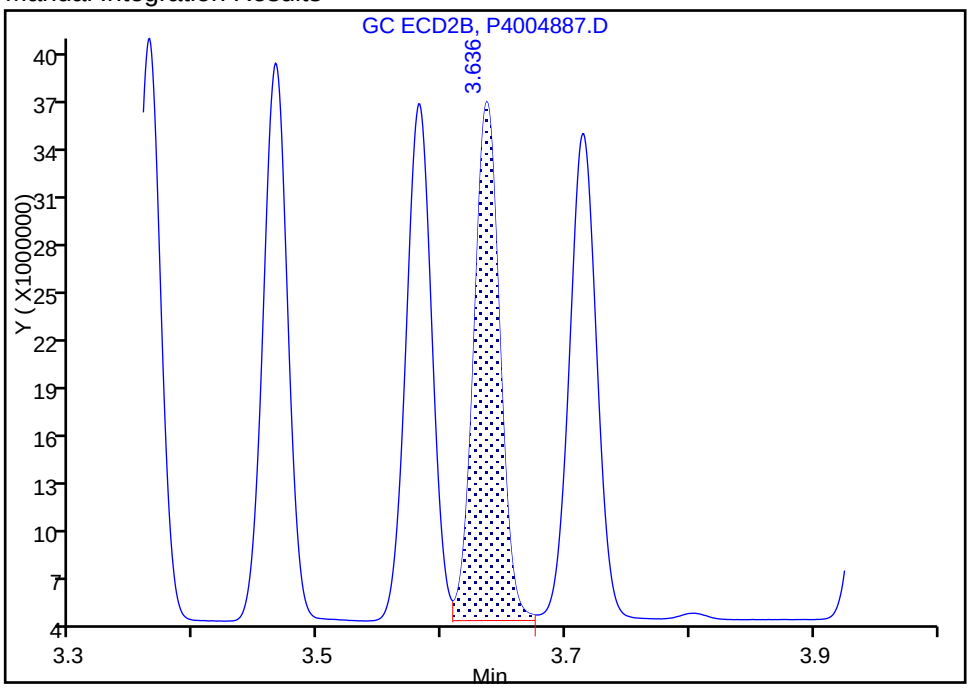
Processing Integration Results

Not Detected
Expected RT: 3.63



Manual Integration Results

RT: 3.64
Area: 46661815
Amount: 113.9718
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

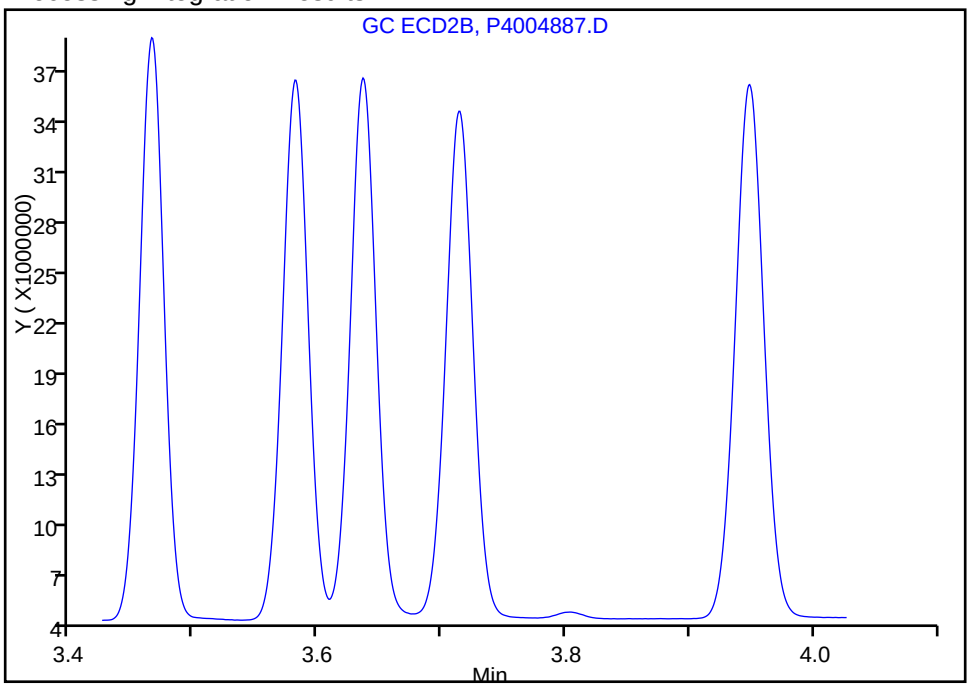
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

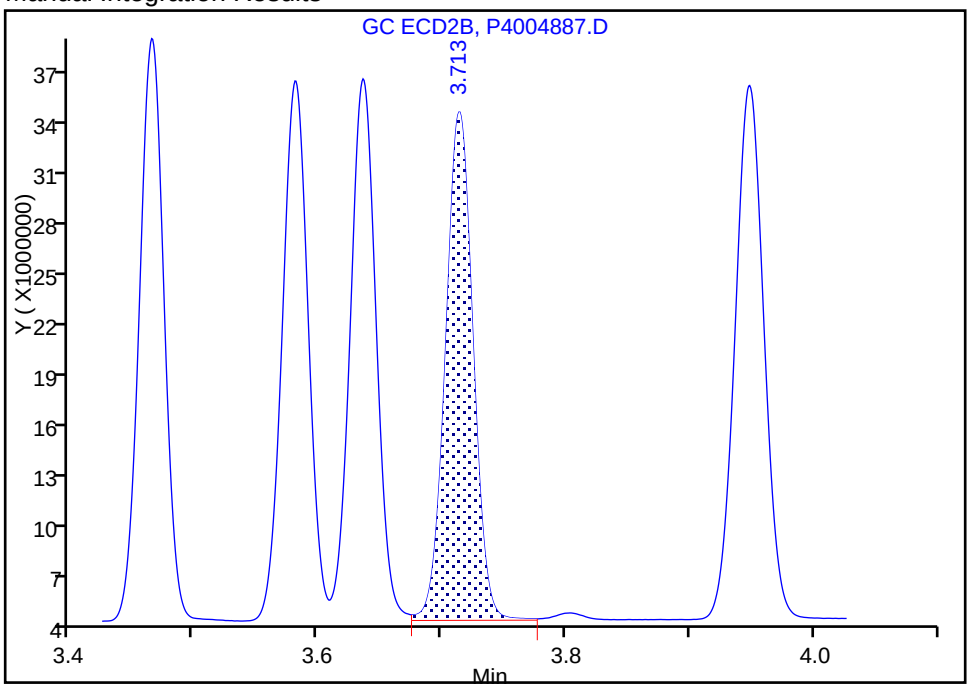
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 46208085
Amount: 114.7728
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:32
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

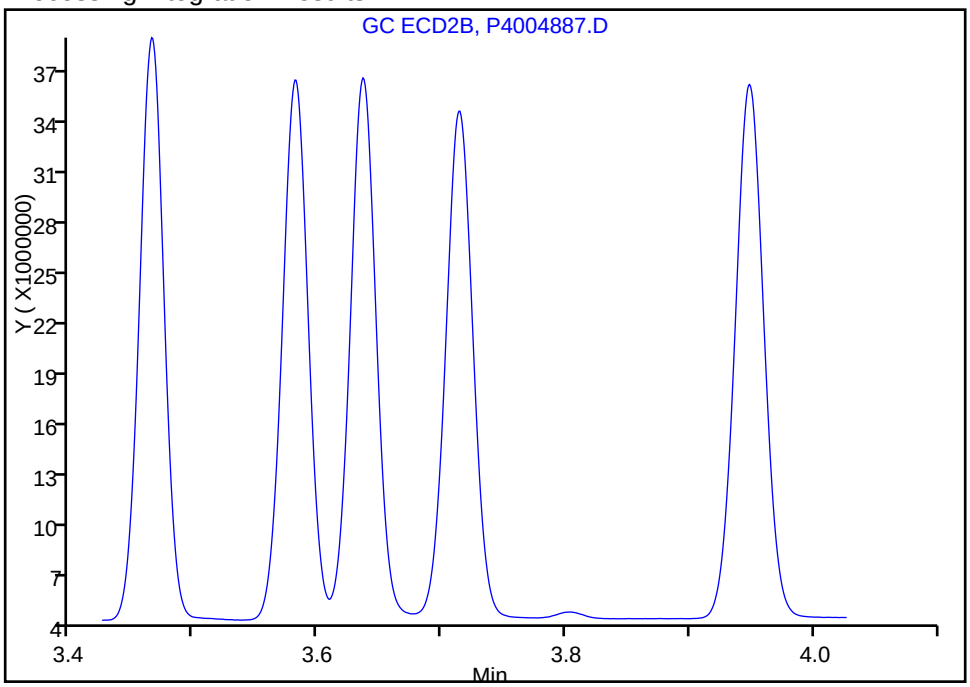
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

7 Endosulfan I, CAS: 959-98-8

Signal: 2

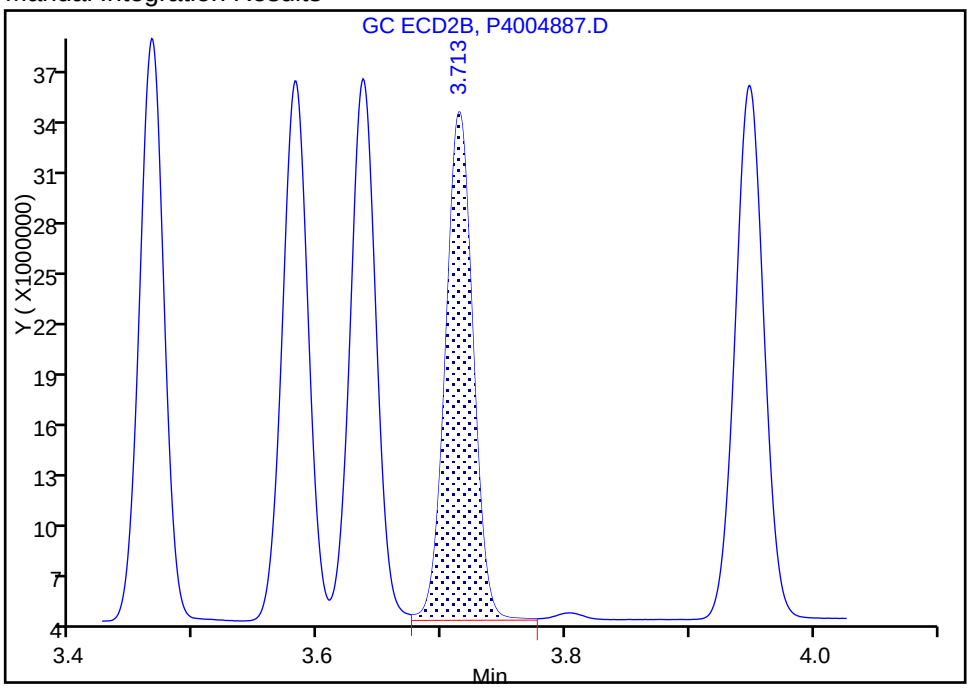
Processing Integration Results

Not Detected
Expected RT: 3.71



Manual Integration Results

RT: 3.71
Area: 46208085
Amount: 114.7728
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:30:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

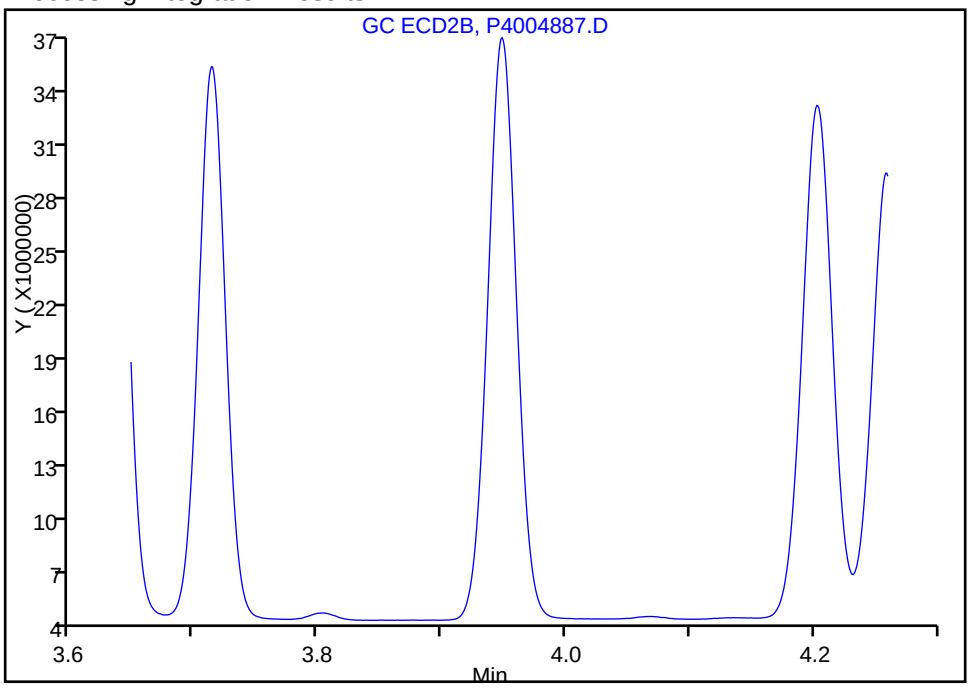
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

30 Dieldrin, CAS: 60-57-1

Signal: 2

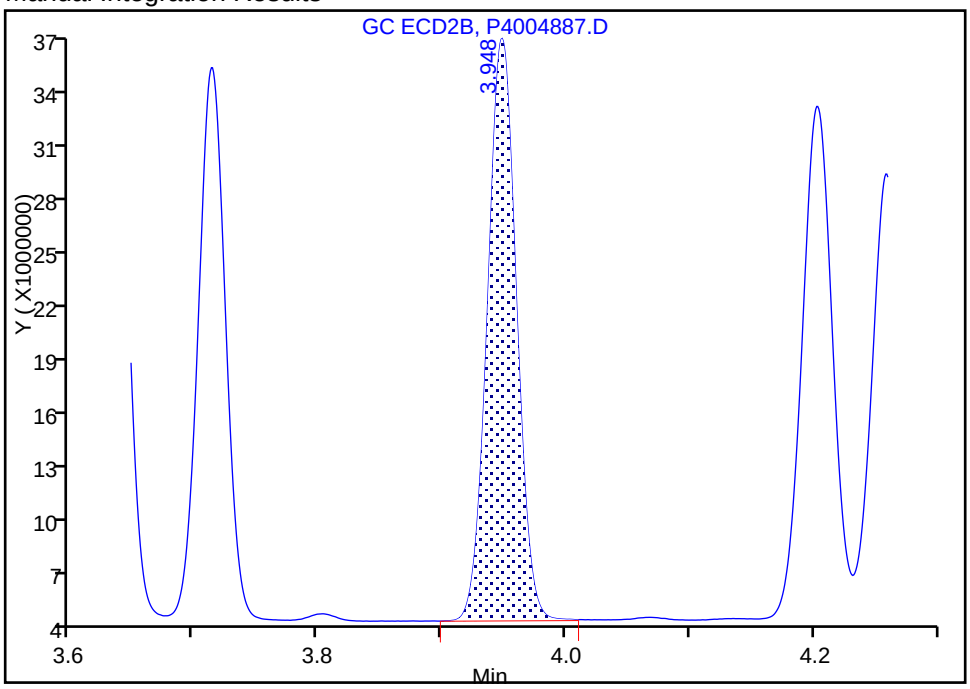
Not Detected
Expected RT: 3.95

Processing Integration Results



Manual Integration Results

RT: 3.95
Area: 51034966
Amount: 114.7586
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:27:59
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

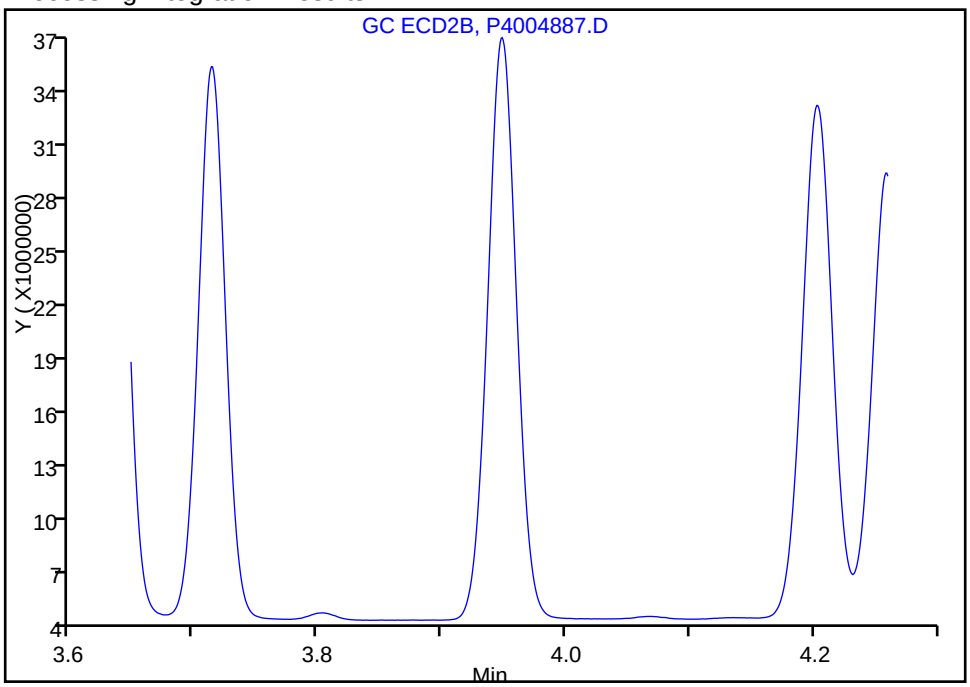
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

30 Dieldrin, CAS: 60-57-1

Signal: 2

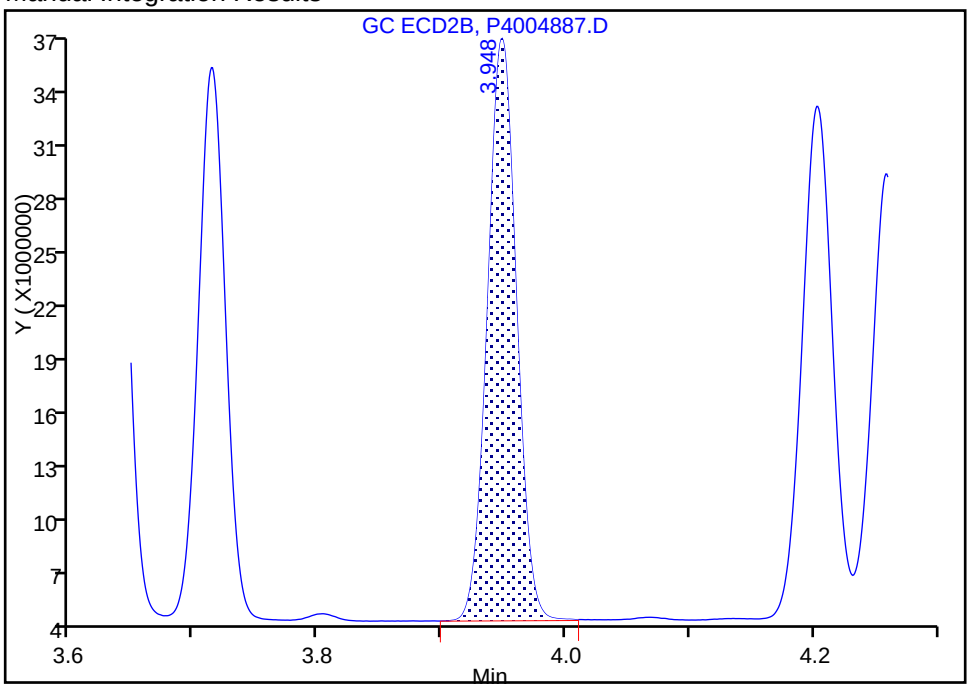
Not Detected
Expected RT: 3.95

Processing Integration Results



Manual Integration Results

RT: 3.95
Area: 51034966
Amount: 114.7586
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:32:10
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

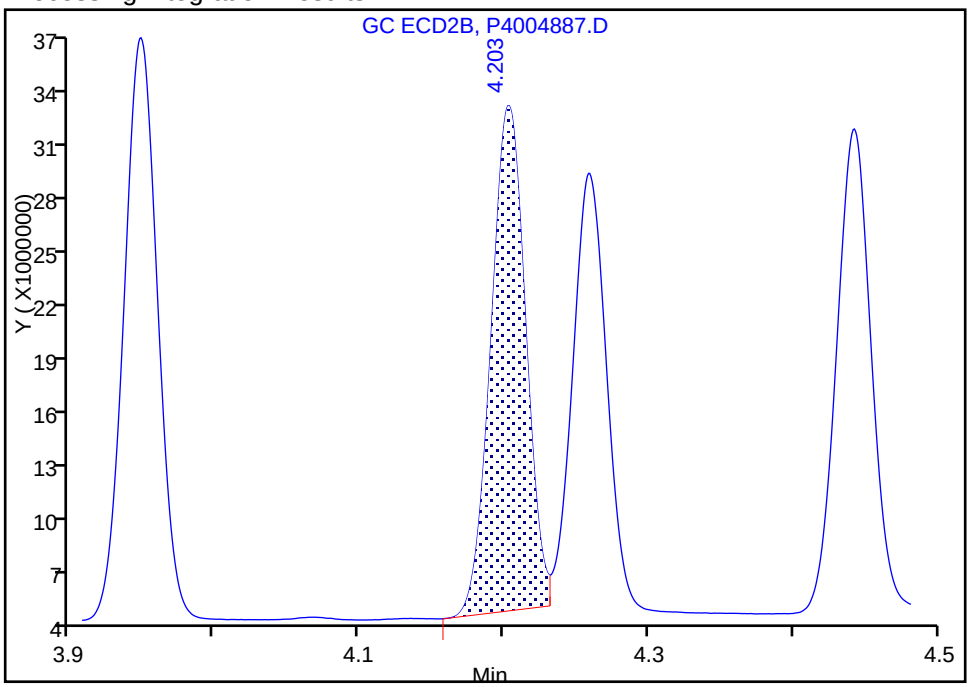
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D				
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

20 Endrin, CAS: 72-20-8

Signal: 2

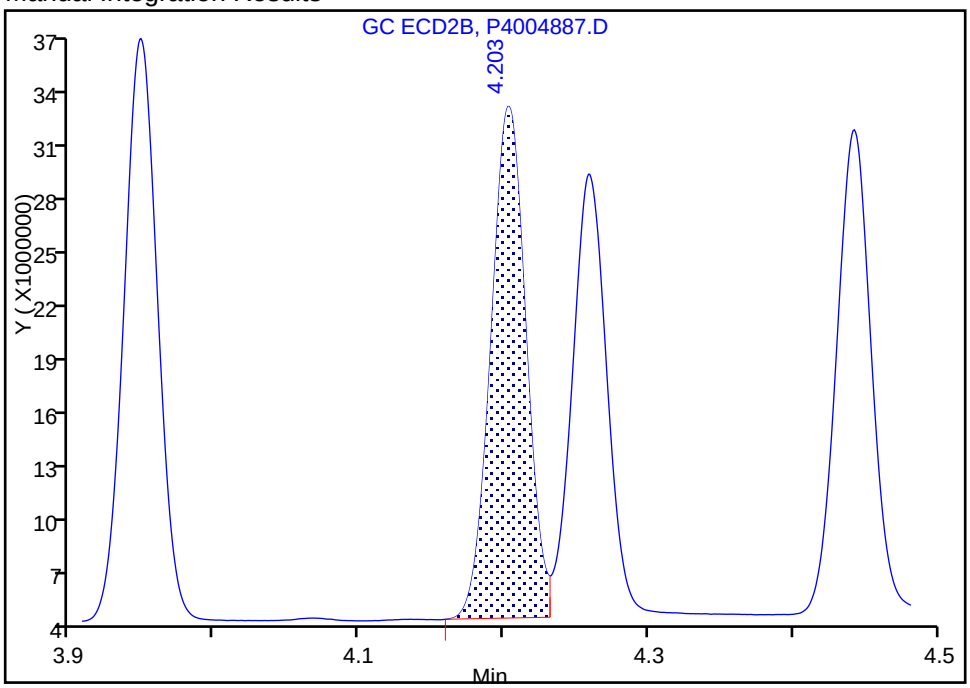
Processing Integration Results

RT: 4.20
Area: 45374658
Amount: 114.3668
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 46578028
Amount: 113.2260
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:32:47
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D

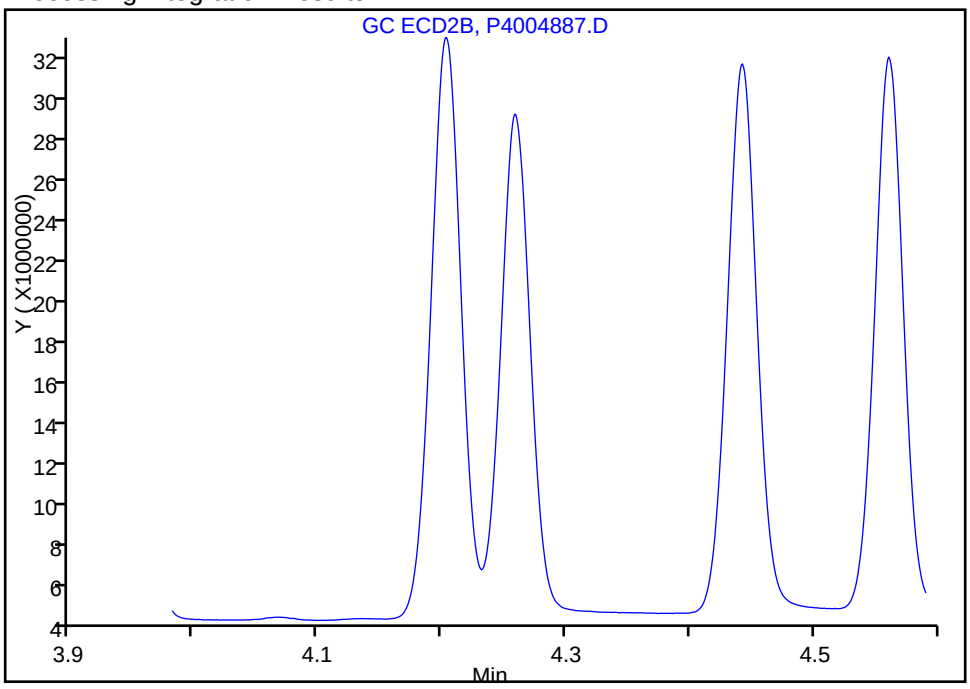
Injection Date:	27-Sep-2017 09:40:30	Instrument ID:	CPESTGC4		
Lims ID:	ICV PEST				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

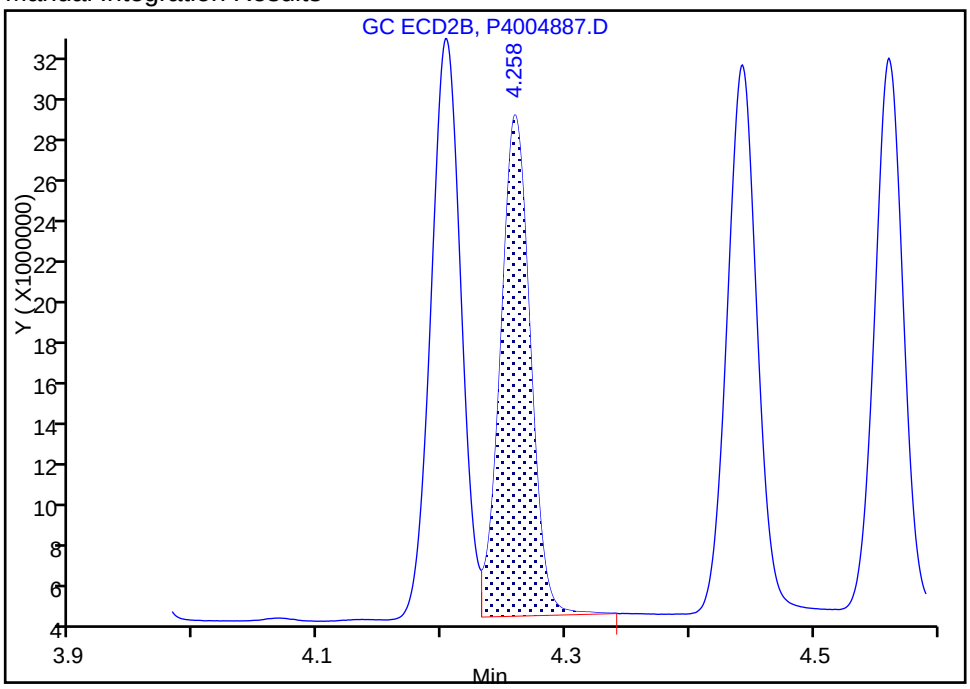
Not Detected
Expected RT: 4.26

Processing Integration Results



Manual Integration Results

RT: 4.26
Area: 39841508
Amount: 111.5677
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:28:13
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

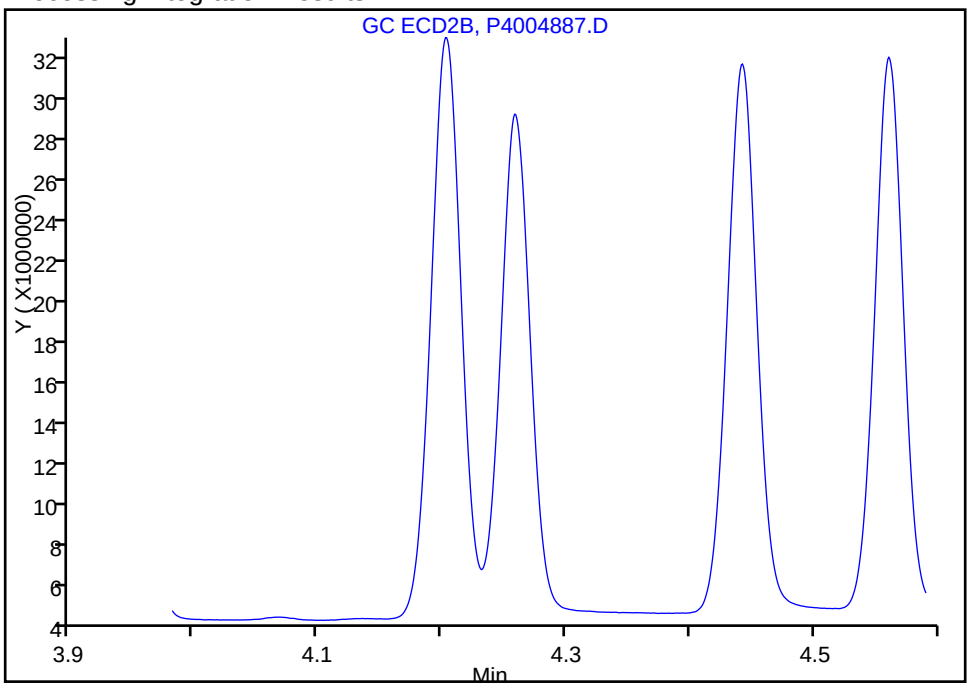
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004887.D
Injection Date: 27-Sep-2017 09:40:30 Instrument ID: CPESTGC4
Lims ID: ICV PEST
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

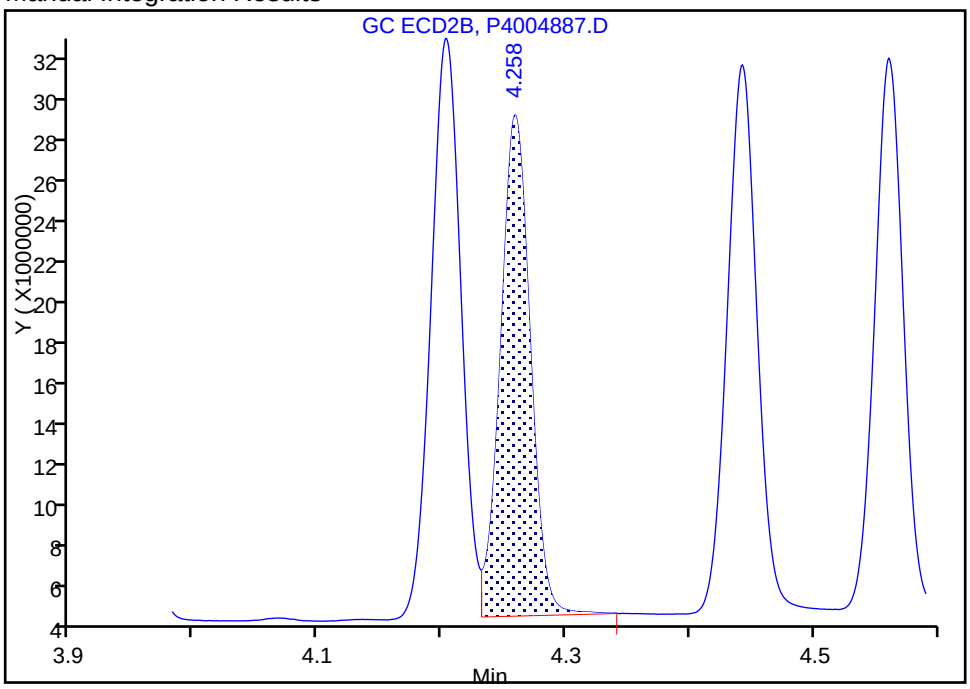
Processing Integration Results

Not Detected
Expected RT: 4.26



Manual Integration Results

RT: 4.26
Area: 39841508
Amount: 111.5677
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:32:47
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505161/3 Calibration Date: 03/22/2018 09:30

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076559.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.440	1.520		106	100	5.5	20.0
gamma-BHC (Lindane)	Ave	1.337	1.383		103	100	3.5	20.0
beta-BHC	Ave	0.5839	0.6128		105	100	4.9	20.0
delta-BHC	Ave	1.364	1.388		102	100	1.8	20.0
Heptachlor	Ave	1.326	1.332		100	100	0.4	20.0
Aldrin	Ave	1.250	1.246		99.7	100	-0.3	20.0
Heptachlor epoxide	Ave	1.138	1.180		104	100	3.8	20.0
trans-Chlordane	Ave	1.138	1.490		131	100	30.9*	20.0
cis-Chlordane	Ave	1.076	1.132		105	100	5.2	20.0
Endosulfan I	Ave	1.043	1.110		106	100	6.4	20.0
4,4'-DDE	Ave	1.075	1.161		108	100	8.1	20.0
Dieldrin	Ave	1.141	1.235		108	100	8.2	20.0
Endrin	Ave	1.009	1.105		110	100	9.5	20.0
4,4'-DDD	Ave	0.8996	0.9774		109	100	8.6	20.0
Endosulfan II	Ave	0.9729	1.042		107	100	7.1	20.0
4,4'-DDT	Ave	0.9508	1.025		108	100	7.8	20.0
Endrin aldehyde	Ave	0.8185	0.8389		102	100	2.5	20.0
Endosulfan sulfate	Ave	0.9396	0.9723		103	100	3.5	20.0
Methoxychlor	Ave	0.5189	0.5666		109	100	9.2	20.0
Mirex	Ave	0.6647	0.6575		98.9	100	-1.1	20.0
Endrin ketone	Ave	1.058	1.142		108	100	7.9	20.0
Tetrachloro-m-xylene	Ave	0.998	1.020		102	100	2.2	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.8001		108	100	8.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505161/3 Calibration Date: 03/22/2018 09:30

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076559.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.45	2.44	2.46
gamma-BHC (Lindane)	2.69	2.68	2.70
beta-BHC	2.73	2.72	2.74
delta-BHC	2.96	2.95	2.97
Heptachlor	3.02	3.01	3.03
Aldrin	3.29	3.28	3.30
Heptachlor epoxide	3.82	3.81	3.83
trans-Chlordane	4.02	4.01	4.03
cis-Chlordane	4.18	4.17	4.19
Endosulfan I	4.25	4.24	4.26
4,4'-DDE	4.35	4.34	4.36
Dieldrin	4.55	4.54	4.56
Endrin	4.84	4.83	4.85
4,4'-DDD	4.91	4.90	4.92
Endosulfan II	4.99	4.98	5.00
4,4'-DDT	5.14	5.13	5.15
Endrin aldehyde	5.23	5.22	5.24
Endosulfan sulfate	5.41	5.40	5.42
Methoxychlor	5.63	5.62	5.64
Mirex	5.79	5.72	5.86
Endrin ketone	5.82	5.75	5.89
Tetrachloro-m-xylene	2.06	2.05	2.07
DCB Decachlorobiphenyl	6.88	6.78	6.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076559.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 09:30:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:38 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 09:43:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.558	1.558	0.000	51408396	100.0	100.0	
2	1.404	1.404	0.000	68215649	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.055	2.055	0.000	52431562	100.0	102.2	
2	1.732	1.732	0.000	68013264	100.0	105.3	
						RPD = 3.00	
15 alpha-BHC							
1	2.446	2.446	0.000	78128176	100.0	105.5	
2	2.019	2.019	0.000	100933365	100.0	107.4	
						RPD = 1.72	
2 gamma-BHC (Lindane)							
1	2.685	2.685	0.000	71120767	100.0	103.5	
2	2.197	2.197	0.000	92259977	100.0	107.5	
						RPD = 3.80	
6 beta-BHC							
1	2.734	2.734	0.000	31501108	100.0	104.9	
2	2.241	2.241	0.000	39171937	100.0	105.3	
						RPD = 0.34	
32 delta-BHC							
1	2.955	2.955	0.000	71339621	100.0	101.8	
2	2.349	2.349	0.000	90752498	100.0	105.9	
						RPD = 3.96	
18 Heptachlor							
1	3.022	3.022	0.000	68455319	100.0	100.4	
2	2.478	2.478	0.000	88249930	100.0	104.8	
						RPD = 4.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.289	3.289	0.000	64059027	100.0	99.7	
2	2.662	2.662	0.000	79961415	100.0	102.6	
						RPD = 2.84	
12 Heptachlor epoxide							
1	3.815	3.815	0.000	60687265	100.0	103.8	
2	3.066	3.066	0.000	73049985	100.0	99.4	
						RPD = 4.32	
9 trans-Chlordane							M
1	4.019	4.019	0.000	76608675	100.0	130.9	M
2	3.158	3.158	0.000	72868845	100.0	99.7	
						RPD = 27.04	
23 cis-Chlordane							
1	4.182	4.182	0.000	58200495	100.0	105.2	
2	3.259	3.259	0.000	69674750	100.0	98.1	
						RPD = 6.98	
7 Endosulfan I							
1	4.253	4.253	0.000	57069313	100.0	106.4	
2	3.370	3.370	0.000	69570916	100.0	100.3	
						RPD = 5.90	
25 4,4'-DDE							
1	4.353	4.353	0.000	59697156	100.0	108.1	
2	3.316	3.316	0.000	70322920	100.0	99.7	
						RPD = 8.01	
30 Dieldrin							
1	4.551	4.551	0.000	63466625	100.0	108.2	
2	3.574	3.574	0.000	76392418	100.0	99.7	
						RPD = 8.14	
20 Endrin							
1	4.835	4.835	0.000	56830913	100.0	109.5	
2	3.789	3.789	0.000	70592826	100.0	99.6	
						RPD = 9.44	
16 4,4'-DDD							
1	4.913	4.913	0.000	50243880	100.0	108.6	
2	3.854	3.854	0.000	58922117	100.0	95.8	
						RPD = 12.57	
11 Endosulfan II							
1	4.994	4.994	0.000	53590792	100.0	107.1	
2	4.015	4.015	0.000	66635100	100.0	99.6	
						RPD = 7.32	
21 4,4'-DDT							
1	5.139	5.139	0.000	52712807	100.0	107.8	
2	4.154	4.154	0.000	65313820	100.0	102.4	
						RPD = 5.18	
5 Endrin aldehyde							
1	5.226	5.226	0.000	43123705	100.0	102.5	
2	4.462	4.462	0.000	54603652	100.0	97.8	
						RPD = 4.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.414	5.414	0.000	49986367	100.0	103.5	
2	4.858	4.858	0.000	64009020	100.0	93.8	
						RPD = 9.86	
10 Methoxychlor							
1	5.625	5.625	0.000	29126948	100.0	109.2	
2	4.676	4.676	0.000	33061009	100.0	92.5	
						RPD = 16.53	
34 Mirex							
1	5.792	5.792	0.000	33799656	100.0	98.9	
2	4.779	4.779	0.000	45204032	100.0	92.2	
						RPD = 6.99	
13 Endrin ketone							
1	5.824	5.824	0.000	58722230	100.0	107.9	
2	5.051	5.051	0.000	73129195	100.0	94.7	
						RPD = 13.03	
$ 24 DCB Decachlorobiphenyl							
1	6.879	6.879	0.000	41130168	100.0	108.4	
2	5.784	5.784	0.000	64479224	100.0	104.3	
						RPD = 3.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

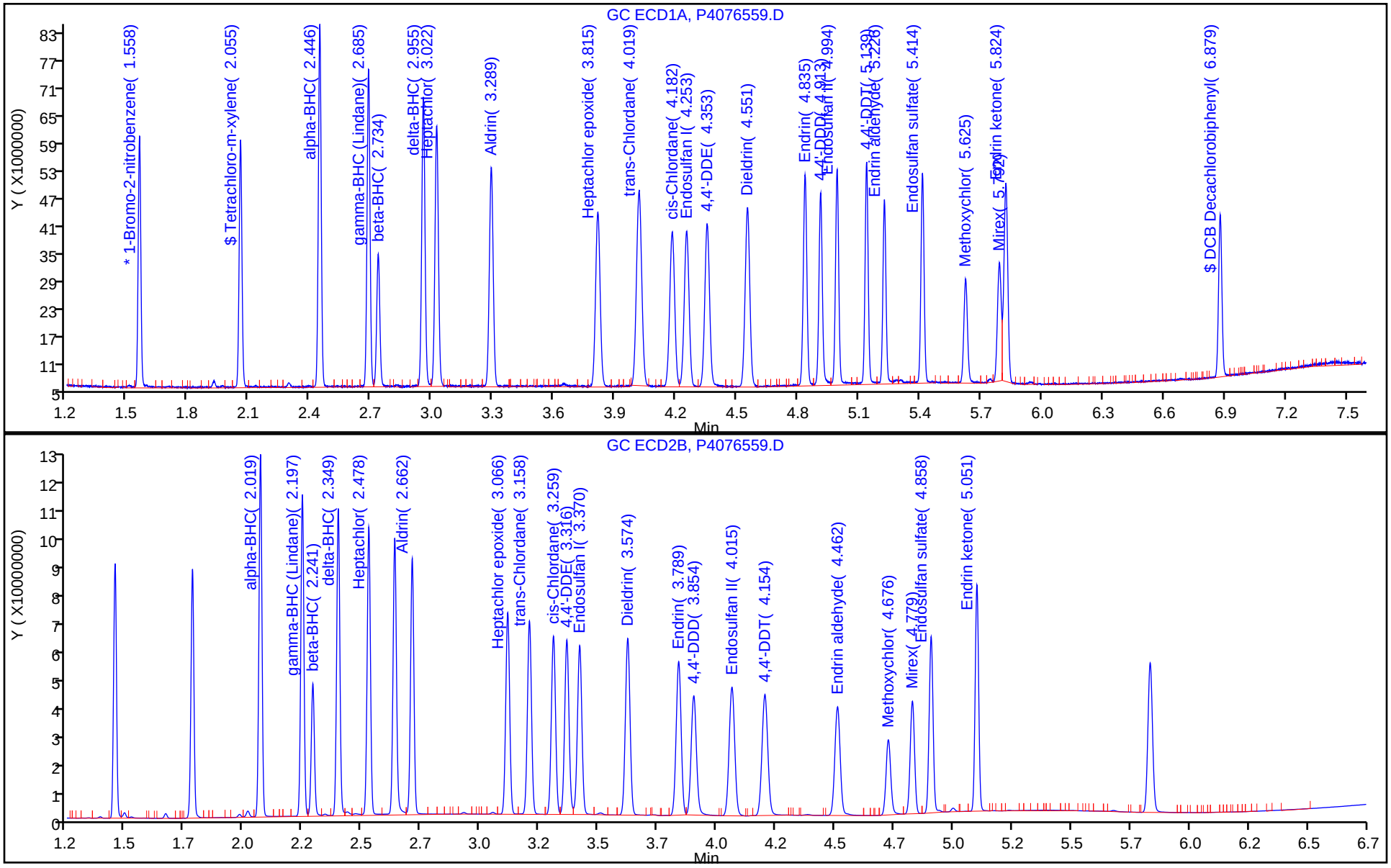
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 13:35:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076559.D

Injection Date:	22-Mar-2018 09:30:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

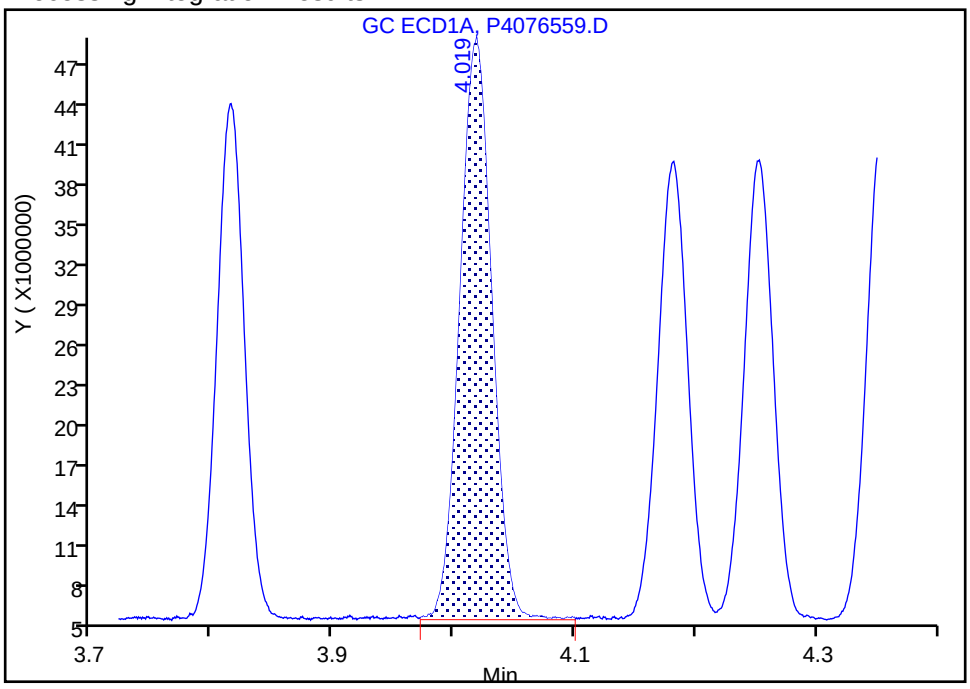
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076559.D
Injection Date: 22-Mar-2018 09:30:06 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

9 trans-Chlordane, CAS: 5103-74-2

Signal: 1

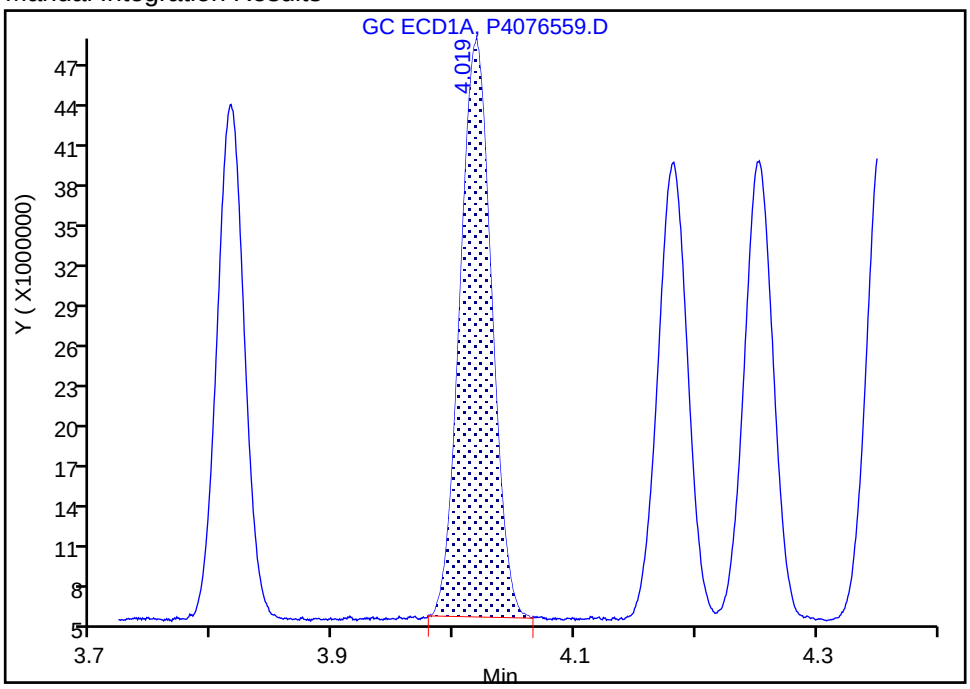
Processing Integration Results

RT: 4.02
Area: 78359576
Amount: 133.9006
Amount Units: ug/l



Manual Integration Results

RT: 4.02
Area: 76608675
Amount: 130.9086
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 09:42:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505161/3 Calibration Date: 03/22/2018 09:30

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076559.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.378	1.480		107	100	7.4	20.0
gamma-BHC (Lindane)	Ave	1.258	1.352		107	100	7.5	20.0
beta-BHC	Ave	0.5453	0.5742		105	100	5.3	20.0
delta-BHC	Ave	1.257	1.330		106	100	5.9	20.0
Heptachlor	Ave	1.235	1.294		105	100	4.8	20.0
Aldrin	Ave	1.143	1.172		103	100	2.6	20.0
Heptachlor epoxide	Ave	1.078	1.071		99.4	100	-0.6	20.0
trans-Chlordane	Ave	1.071	1.068		99.7	100	-0.3	20.0
cis-Chlordane	Ave	1.041	1.021		98.1	100	-1.9	20.0
4,4'-DDE	Ave	1.034	1.031		99.7	100	-0.3	20.0
Endosulfan I	Ave	1.016	1.020		100	100	0.3	20.0
Dieldrin	Ave	1.123	1.120		99.7	100	-0.3	20.0
Endrin	Ave	1.039	1.035		99.6	100	-0.4	20.0
4,4'-DDD	Ave	0.9016	0.8638		95.8	100	-4.2	20.0
Endosulfan II	Ave	0.9809	0.9768		99.6	100	-0.4	20.0
4,4'-DDT	Ave	0.9350	0.9575		102	100	2.4	20.0
Endrin aldehyde	Ave	0.8182	0.8005		97.8	100	-2.2	20.0
Methoxychlor	Ave	0.5238	0.4847		92.5	100	-7.5	20.0
Mirex	Ave	0.7185	0.6627		92.2	100	-7.8	20.0
Endosulfan sulfate	Ave	1.001	0.9383		93.8	100	-6.2	20.0
Endrin ketone	Ave	1.132	1.072		94.7	100	-5.3	20.0
Tetrachloro-m-xylene	Ave	0.9467	0.997		105	100	5.3	20.0
DCB Decachlorobiphenyl	Ave	0.9059	0.9452		104	100	4.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505161/3 Calibration Date: 03/22/2018 09:30

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076559.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.02	2.01	2.03
gamma-BHC (Lindane)	2.20	2.19	2.21
beta-BHC	2.24	2.23	2.25
delta-BHC	2.35	2.34	2.36
Heptachlor	2.48	2.47	2.49
Aldrin	2.66	2.65	2.67
Heptachlor epoxide	3.07	3.06	3.08
trans-Chlordane	3.16	3.15	3.17
cis-Chlordane	3.26	3.25	3.27
4,4'-DDE	3.32	3.31	3.33
Endosulfan I	3.37	3.36	3.38
Dieldrin	3.57	3.56	3.58
Endrin	3.79	3.78	3.80
4,4'-DDD	3.85	3.84	3.86
Endosulfan II	4.02	4.01	4.03
4,4'-DDT	4.15	4.14	4.16
Endrin aldehyde	4.46	4.45	4.47
Methoxychlor	4.68	4.67	4.69
Mirex	4.78	4.71	4.85
Endosulfan sulfate	4.86	4.85	4.87
Endrin ketone	5.05	4.98	5.12
Tetrachloro-m-xylene	1.73	1.72	1.74
DCB Decachlorobiphenyl	5.78	5.68	5.88

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076559.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 09:30:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:38 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 09:43:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.558	1.558	0.000	51408396	100.0	100.0	
2	1.404	1.404	0.000	68215649	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.055	2.055	0.000	52431562	100.0	102.2	
2	1.732	1.732	0.000	68013264	100.0	105.3	
						RPD = 3.00	
15 alpha-BHC							
1	2.446	2.446	0.000	78128176	100.0	105.5	
2	2.019	2.019	0.000	100933365	100.0	107.4	
						RPD = 1.72	
2 gamma-BHC (Lindane)							
1	2.685	2.685	0.000	71120767	100.0	103.5	
2	2.197	2.197	0.000	92259977	100.0	107.5	
						RPD = 3.80	
6 beta-BHC							
1	2.734	2.734	0.000	31501108	100.0	104.9	
2	2.241	2.241	0.000	39171937	100.0	105.3	
						RPD = 0.34	
32 delta-BHC							
1	2.955	2.955	0.000	71339621	100.0	101.8	
2	2.349	2.349	0.000	90752498	100.0	105.9	
						RPD = 3.96	
18 Heptachlor							
1	3.022	3.022	0.000	68455319	100.0	100.4	
2	2.478	2.478	0.000	88249930	100.0	104.8	
						RPD = 4.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.289	3.289	0.000	64059027	100.0	99.7	
2	2.662	2.662	0.000	79961415	100.0	102.6	
						RPD = 2.84	
12 Heptachlor epoxide							
1	3.815	3.815	0.000	60687265	100.0	103.8	
2	3.066	3.066	0.000	73049985	100.0	99.4	
						RPD = 4.32	
9 trans-Chlordane							M
1	4.019	4.019	0.000	76608675	100.0	130.9	M
2	3.158	3.158	0.000	72868845	100.0	99.7	
						RPD = 27.04	
23 cis-Chlordane							
1	4.182	4.182	0.000	58200495	100.0	105.2	
2	3.259	3.259	0.000	69674750	100.0	98.1	
						RPD = 6.98	
7 Endosulfan I							
1	4.253	4.253	0.000	57069313	100.0	106.4	
2	3.370	3.370	0.000	69570916	100.0	100.3	
						RPD = 5.90	
25 4,4'-DDE							
1	4.353	4.353	0.000	59697156	100.0	108.1	
2	3.316	3.316	0.000	70322920	100.0	99.7	
						RPD = 8.01	
30 Dieldrin							
1	4.551	4.551	0.000	63466625	100.0	108.2	
2	3.574	3.574	0.000	76392418	100.0	99.7	
						RPD = 8.14	
20 Endrin							
1	4.835	4.835	0.000	56830913	100.0	109.5	
2	3.789	3.789	0.000	70592826	100.0	99.6	
						RPD = 9.44	
16 4,4'-DDD							
1	4.913	4.913	0.000	50243880	100.0	108.6	
2	3.854	3.854	0.000	58922117	100.0	95.8	
						RPD = 12.57	
11 Endosulfan II							
1	4.994	4.994	0.000	53590792	100.0	107.1	
2	4.015	4.015	0.000	66635100	100.0	99.6	
						RPD = 7.32	
21 4,4'-DDT							
1	5.139	5.139	0.000	52712807	100.0	107.8	
2	4.154	4.154	0.000	65313820	100.0	102.4	
						RPD = 5.18	
5 Endrin aldehyde							
1	5.226	5.226	0.000	43123705	100.0	102.5	
2	4.462	4.462	0.000	54603652	100.0	97.8	
						RPD = 4.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.414	5.414	0.000	49986367	100.0	103.5	
2	4.858	4.858	0.000	64009020	100.0	93.8	
						RPD = 9.86	
10 Methoxychlor							
1	5.625	5.625	0.000	29126948	100.0	109.2	
2	4.676	4.676	0.000	33061009	100.0	92.5	
						RPD = 16.53	
34 Mirex							
1	5.792	5.792	0.000	33799656	100.0	98.9	
2	4.779	4.779	0.000	45204032	100.0	92.2	
						RPD = 6.99	
13 Endrin ketone							
1	5.824	5.824	0.000	58722230	100.0	107.9	
2	5.051	5.051	0.000	73129195	100.0	94.7	
						RPD = 13.03	
$ 24 DCB Decachlorobiphenyl							
1	6.879	6.879	0.000	41130168	100.0	108.4	
2	5.784	5.784	0.000	64479224	100.0	104.3	
						RPD = 3.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

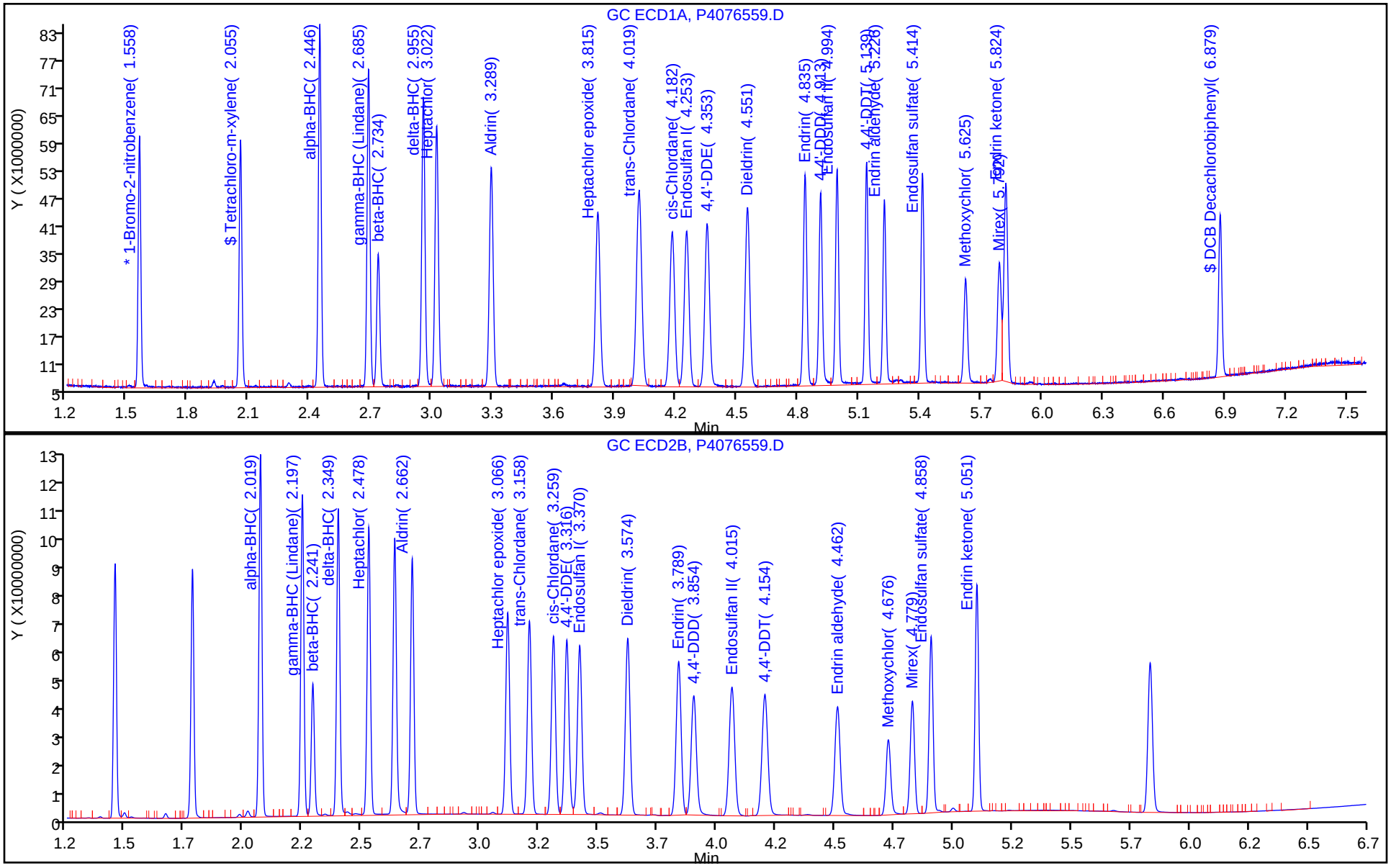
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 22-Mar-2018 13:35:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076559.D

Injection Date:	22-Mar-2018 09:30:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.998	0.8940		89.6	100	-10.4	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.7043		95.4	100	-4.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076560.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.05	2.04	2.06
DCB Decachlorobiphenyl	6.88	6.78	6.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D
Lims ID: CCV CHO
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:41:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:42 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:00:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.557	1.557	0.000	49484640	100.0	100.0	
2	1.406	1.406	0.000	63109675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.053	2.053	0.000	44238371	100.0	89.6	
2	1.733	1.733	0.000	53887891	100.0	90.2	
						RPD = 0.67	
31 Chlordane (technical)							M
1	2.907	2.907	0.000	15950238	1000.0	979.4	M
1	3.402	3.402	0.000	17463310	1000.0	1014.4	
1	0.000	4.016	0.000	0	1000.0	0	
1	4.115	4.115	0.000	60278005	1000.0	1031.8	
1	4.178	4.178	0.000	41293655	1000.0	1007.4	
		Average of Peak Amounts =				1008.3	
2	2.431	2.431	0.000	17932304	1000.0	901.6	M
2	2.743	2.743	0.000	21360657	1000.0	913.2	M
2	3.019	3.019	0.000	15419554	1000.0	947.1	M
2	3.159	3.159	0.000	71082481	1000.0	918.2	M
2	3.249	3.249	0.000	121503436	1000.0	919.1	M
		Average of Peak Amounts =				919.8	
						RPD = 9.17	
$ 24 DCB Decachlorobiphenyl							
1	6.878	6.878	0.000	34850856	100.0	95.4	
2	5.784	5.784	0.000	55278064	100.0	96.7	
						RPD = 1.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

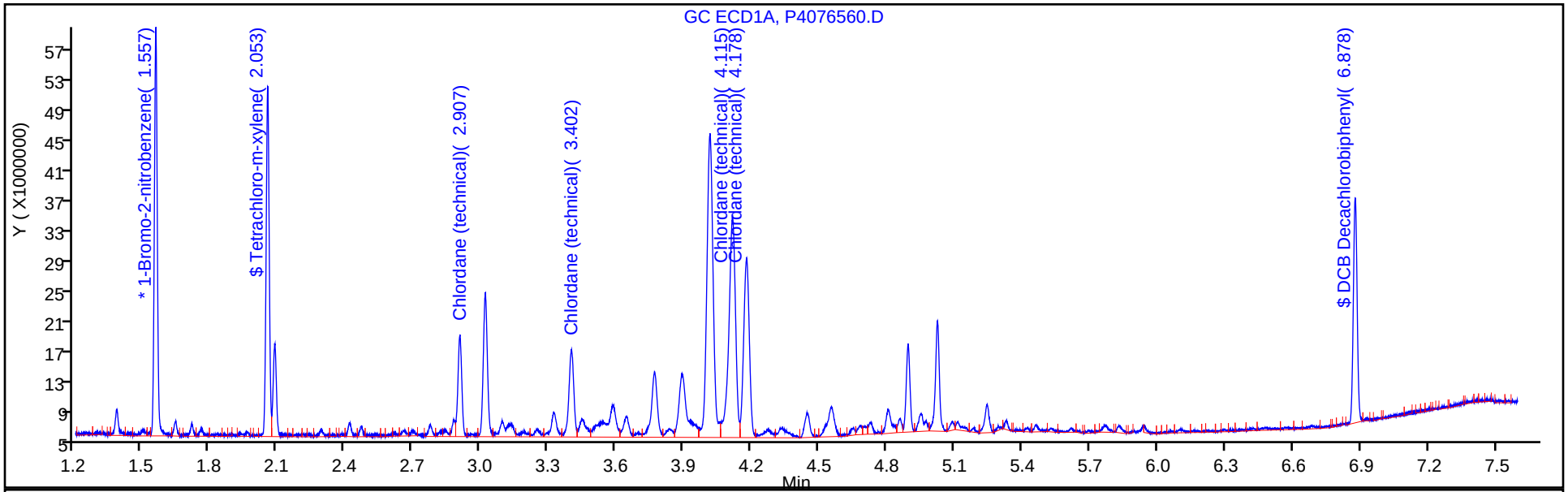
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

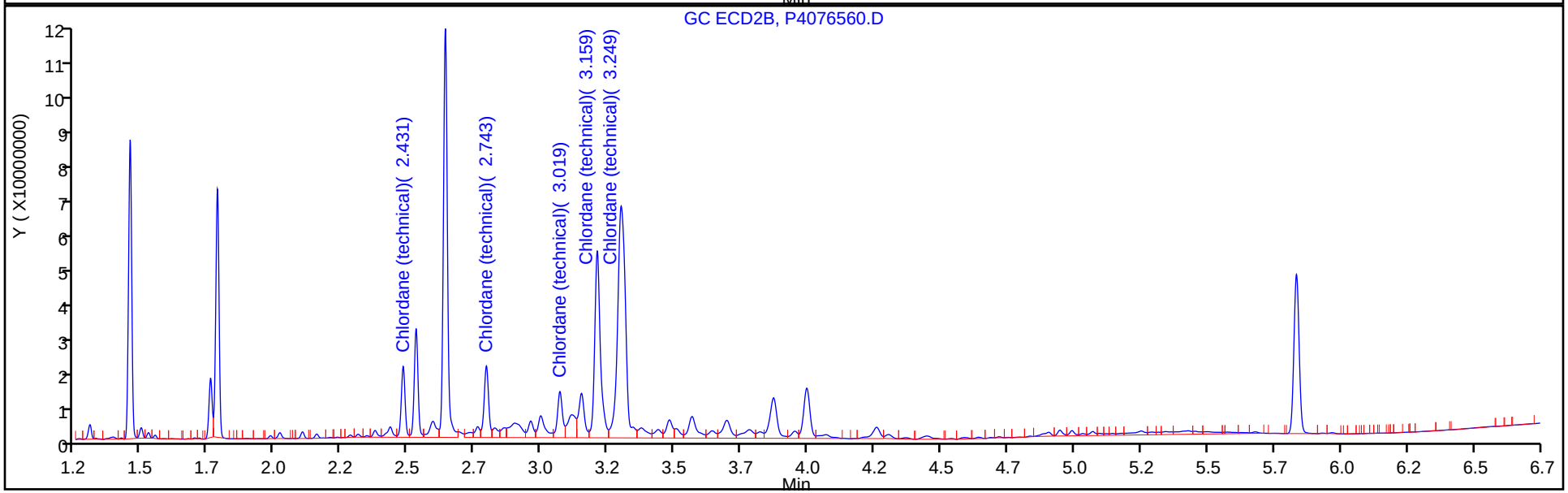
Report Date: 22-Mar-2018 13:35:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date:	22-Mar-2018 09:41:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV CHO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 10:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 10:59

Lab File ID: P4076560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	0.0329	0.0322		979	1000	-2.1	20.0
Chlordane (technical) Peak 2	Ave	0.0348	0.0353		1010	1000	1.4	20.0
Chlordane (technical) Peak 3	Ave	0.1053	0.1554		0.0550	1000	47.6*	20.0
Chlordane (technical) Peak 4	Ave	0.1181	0.1218		1030	1000	3.2	20.0
Chlordane (technical) Peak 5	Ave	0.0828	0.0835		1010	1000	0.7	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 10:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 10:59

Lab File ID: P4076560.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	2.91	2.90	2.92
Chlordane (technical) Peak 2	3.40	3.39	3.41
Chlordane (technical) Peak 3	4.02	4.01	4.03
Chlordane (technical) Peak 4	4.12	4.11	4.13
Chlordane (technical) Peak 5	4.18	4.17	4.19

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D
Lims ID: CCV CHO
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:41:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:42 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:00:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.557	1.557	0.000	49484640	100.0	100.0	
2	1.406	1.406	0.000	63109675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.053	2.053	0.000	44238371	100.0	89.6	
2	1.733	1.733	0.000	53887891	100.0	90.2	
						RPD = 0.67	
31 Chlordane (technical)							M
1	2.907	2.907	0.000	15950238	1000.0	979.4	M
1	3.402	3.402	0.000	17463310	1000.0	1014.4	
1	0.000	4.016	0.000	0	1000.0	0	
1	4.115	4.115	0.000	60278005	1000.0	1031.8	
1	4.178	4.178	0.000	41293655	1000.0	1007.4	
		Average of Peak Amounts =				1008.3	
2	2.431	2.431	0.000	17932304	1000.0	901.6	M
2	2.743	2.743	0.000	21360657	1000.0	913.2	M
2	3.019	3.019	0.000	15419554	1000.0	947.1	M
2	3.159	3.159	0.000	71082481	1000.0	918.2	M
2	3.249	3.249	0.000	121503436	1000.0	919.1	M
		Average of Peak Amounts =				919.8	
						RPD = 9.17	
$ 24 DCB Decachlorobiphenyl							
1	6.878	6.878	0.000	34850856	100.0	95.4	
2	5.784	5.784	0.000	55278064	100.0	96.7	
						RPD = 1.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

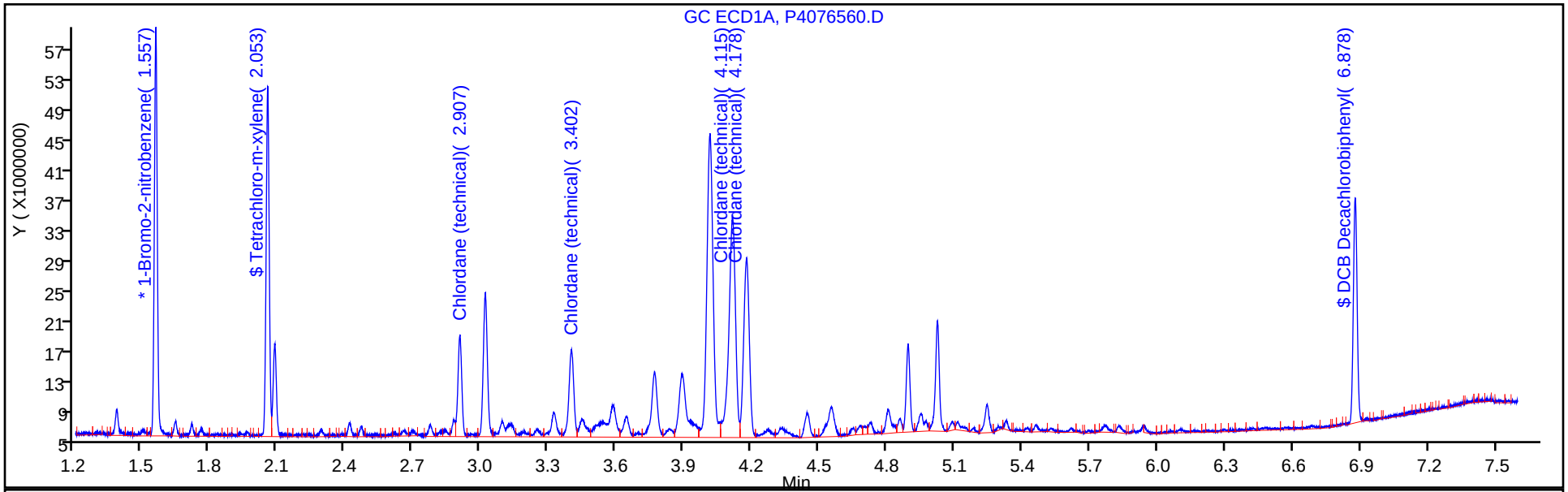
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

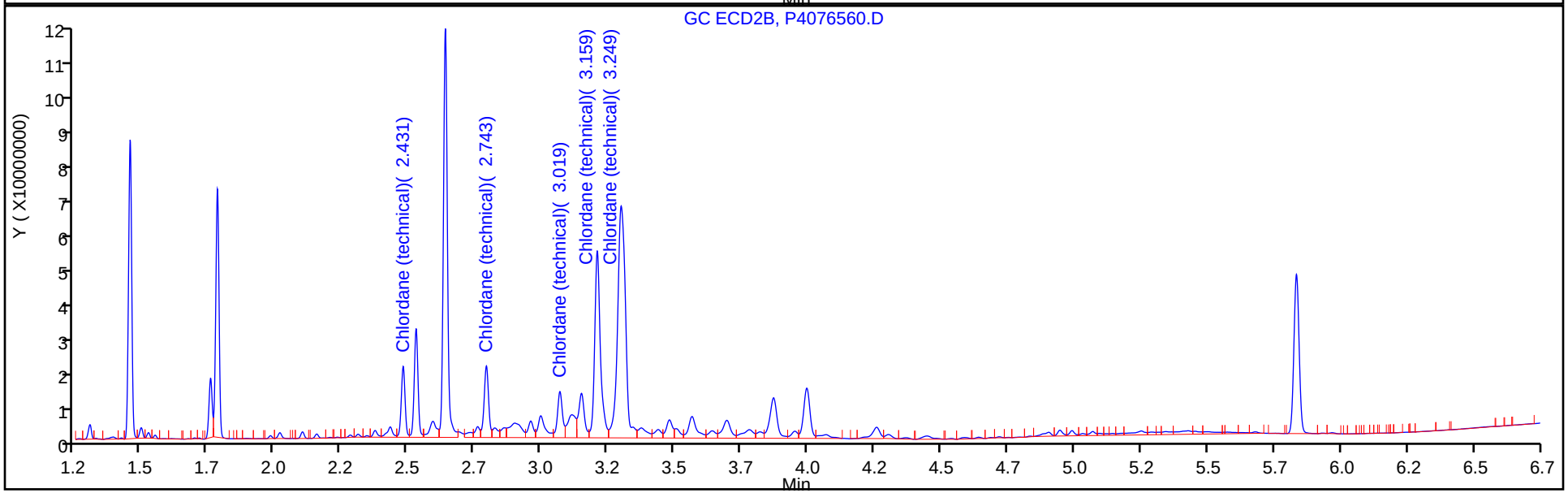
Report Date: 22-Mar-2018 13:35:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date:	22-Mar-2018 09:41:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV CHO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 22-Mar-2018 13:35:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date: 22-Mar-2018 09:41:37 Instrument ID: CPESTGC4

Lims ID: CCV CHO

Client ID:

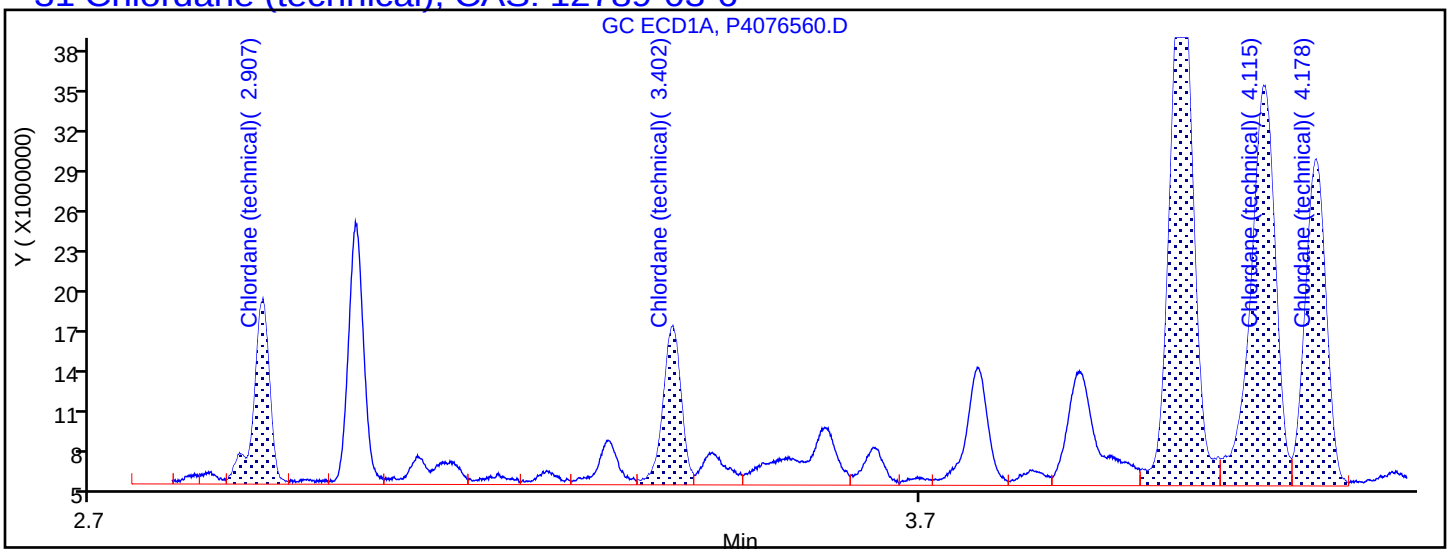
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

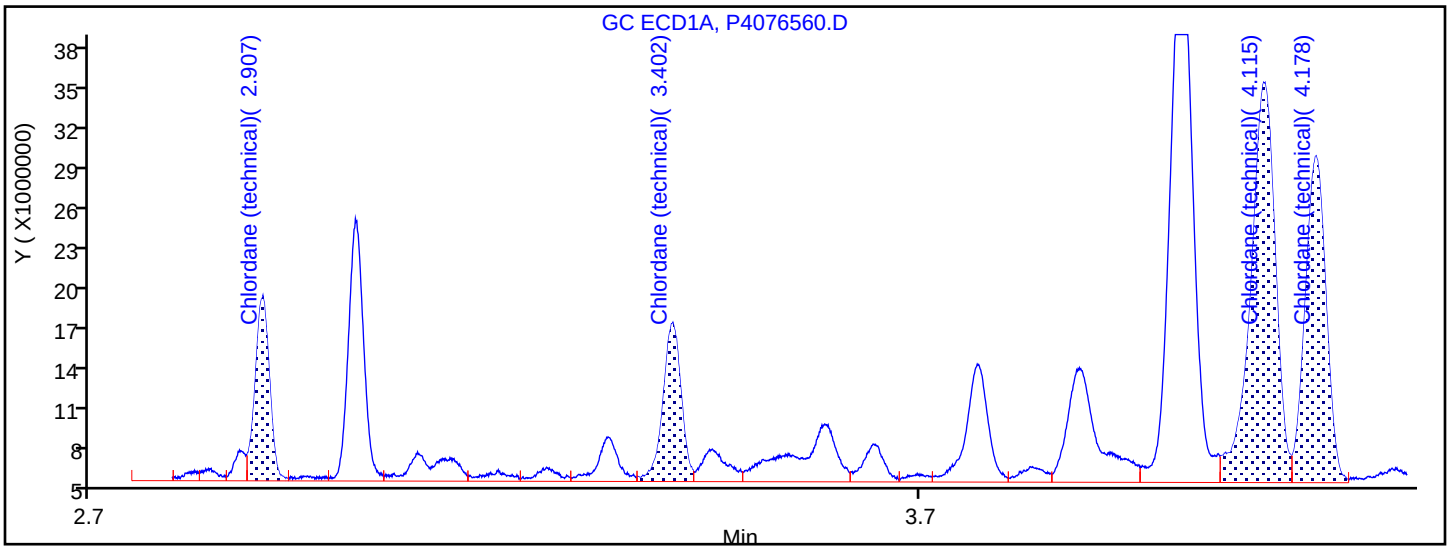
Column: Detector GC ECD1A

31 Chlordane (technical), CAS: 12789-03-6



Processing Integration Results

2.907	Response = 18111533
3.402	Response = 17463310
4.016	Response = 76877441
4.115	Response = 60278005
4.178	Response = 41293655



Manual Integration Results

2.907	Response = 15950238	M
3.402	Response = 17463310	
4.016	Response = 0	
4.115	Response = 60278005	
4.178	Response = 41293655	

Reviewer: kapoors, 22-Mar-2018 09:59:38

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

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.9467	0.8539		90.2	100	-9.8	20.0
DCB Decachlorobiphenyl	Ave	0.9059	0.8759		96.7	100	-3.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076560.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.73	1.72	1.74
DCB Decachlorobiphenyl	5.78	5.68	5.88

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D
Lims ID: CCV CHO
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:41:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:42 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:00:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.557	1.557	0.000	49484640	100.0	100.0	
2	1.406	1.406	0.000	63109675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.053	2.053	0.000	44238371	100.0	89.6	
2	1.733	1.733	0.000	53887891	100.0	90.2	
						RPD = 0.67	
31 Chlordane (technical)							M
1	2.907	2.907	0.000	15950238	1000.0	979.4	M
1	3.402	3.402	0.000	17463310	1000.0	1014.4	
1	0.000	4.016	0.000	0	1000.0	0	
1	4.115	4.115	0.000	60278005	1000.0	1031.8	
1	4.178	4.178	0.000	41293655	1000.0	1007.4	
		Average of Peak Amounts =				1008.3	
2	2.431	2.431	0.000	17932304	1000.0	901.6	M
2	2.743	2.743	0.000	21360657	1000.0	913.2	M
2	3.019	3.019	0.000	15419554	1000.0	947.1	M
2	3.159	3.159	0.000	71082481	1000.0	918.2	M
2	3.249	3.249	0.000	121503436	1000.0	919.1	M
		Average of Peak Amounts =				919.8	
						RPD = 9.17	
$ 24 DCB Decachlorobiphenyl							
1	6.878	6.878	0.000	34850856	100.0	95.4	
2	5.784	5.784	0.000	55278064	100.0	96.7	
						RPD = 1.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

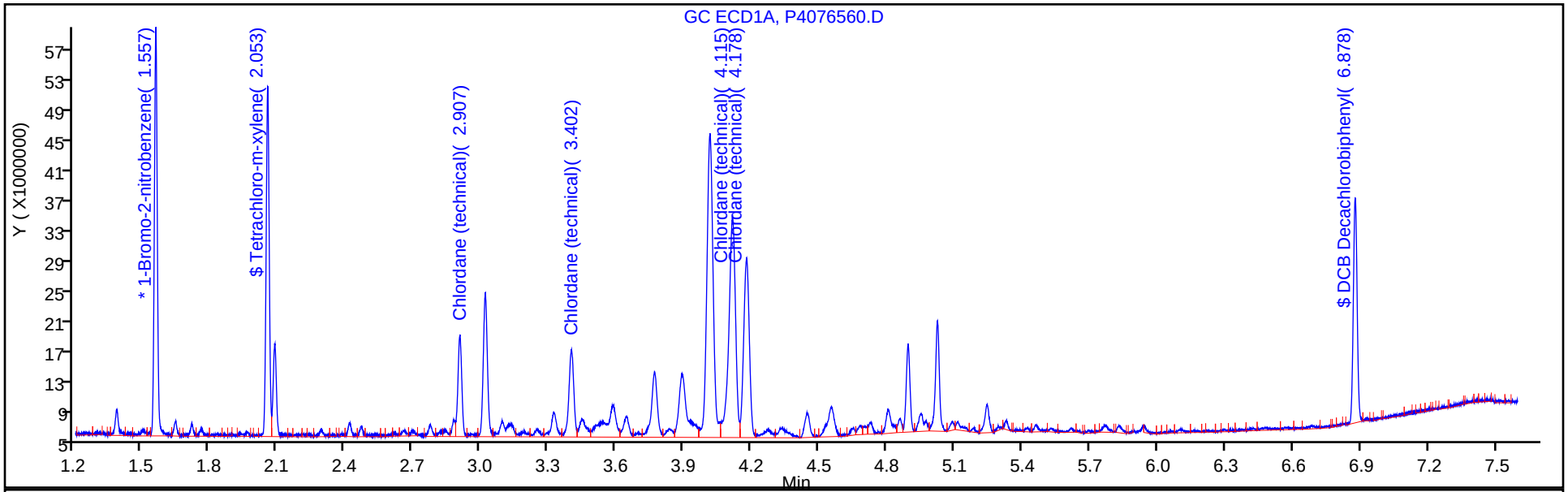
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

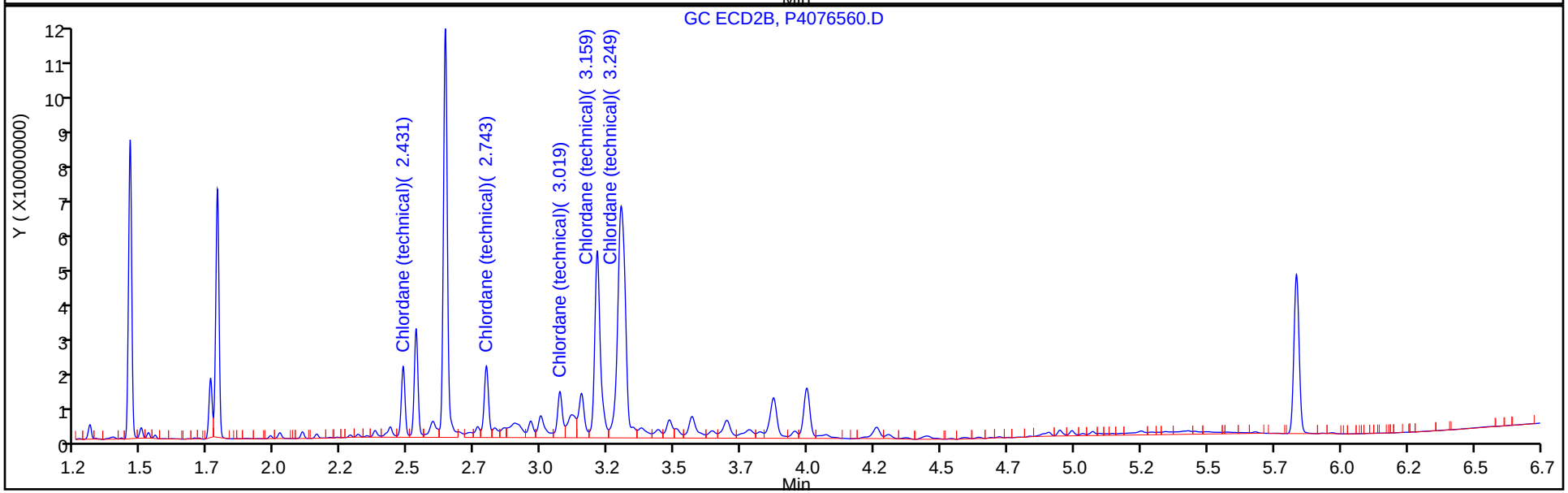
Report Date: 22-Mar-2018 13:35:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date:	22-Mar-2018 09:41:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV CHO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 10:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 10:59

Lab File ID: P4076560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	0.0315	0.0284		902	1000	-9.8	20.0
Chlordane (technical) Peak 2	Ave	0.0371	0.0339		913	1000	-8.7	20.0
Chlordane (technical) Peak 3	Ave	0.0258	0.0244		947	1000	-5.3	20.0
Chlordane (technical) Peak 4	Ave	0.1227	0.1126		918	1000	-8.2	20.0
Chlordane (technical) Peak 5	Ave	0.2095	0.1925		919	1000	-8.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/4 Calibration Date: 03/22/2018 09:41

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 10:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 10:59

Lab File ID: P4076560.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	2.43	2.42	2.44
Chlordane (technical) Peak 2	2.74	2.73	2.75
Chlordane (technical) Peak 3	3.02	3.01	3.03
Chlordane (technical) Peak 4	3.16	3.15	3.17
Chlordane (technical) Peak 5	3.25	3.24	3.26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D
Lims ID: CCV CHO
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:41:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:42 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:00:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.557	1.557	0.000	49484640	100.0	100.0	
2	1.406	1.406	0.000	63109675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.053	2.053	0.000	44238371	100.0	89.6	
2	1.733	1.733	0.000	53887891	100.0	90.2	
						RPD = 0.67	
31 Chlordane (technical)							M
1	2.907	2.907	0.000	15950238	1000.0	979.4	M
1	3.402	3.402	0.000	17463310	1000.0	1014.4	
1	0.000	4.016	0.000	0	1000.0	0	
1	4.115	4.115	0.000	60278005	1000.0	1031.8	
1	4.178	4.178	0.000	41293655	1000.0	1007.4	
		Average of Peak Amounts =				1008.3	
2	2.431	2.431	0.000	17932304	1000.0	901.6	M
2	2.743	2.743	0.000	21360657	1000.0	913.2	M
2	3.019	3.019	0.000	15419554	1000.0	947.1	M
2	3.159	3.159	0.000	71082481	1000.0	918.2	M
2	3.249	3.249	0.000	121503436	1000.0	919.1	M
		Average of Peak Amounts =				919.8	
						RPD = 9.17	
$ 24 DCB Decachlorobiphenyl							
1	6.878	6.878	0.000	34850856	100.0	95.4	
2	5.784	5.784	0.000	55278064	100.0	96.7	
						RPD = 1.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

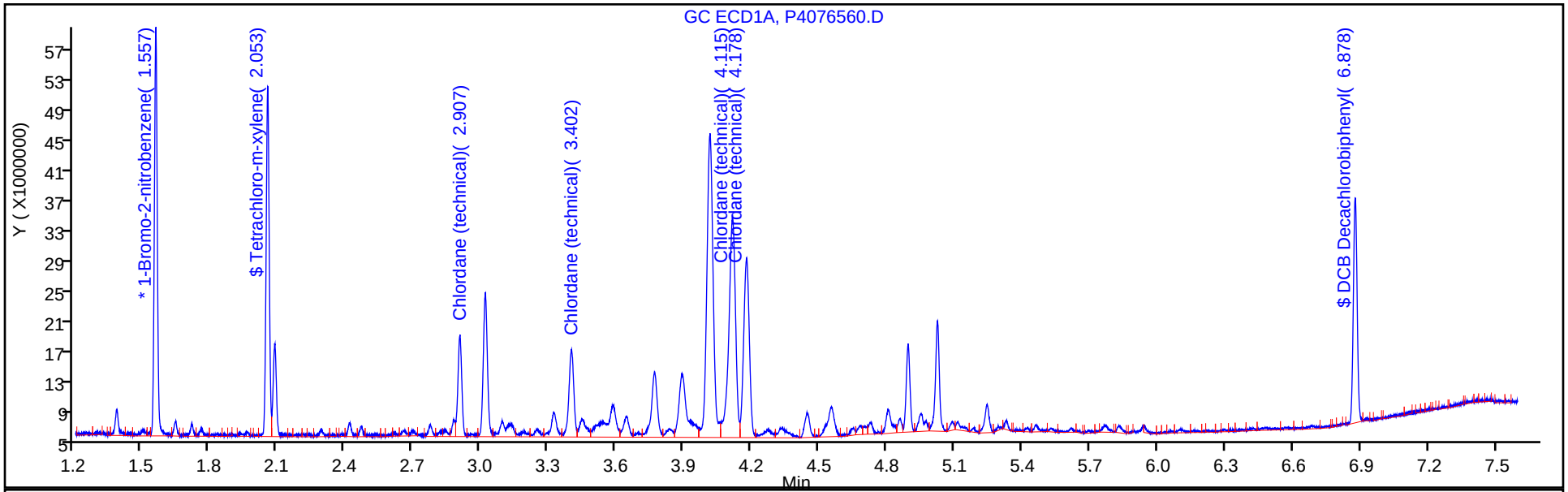
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

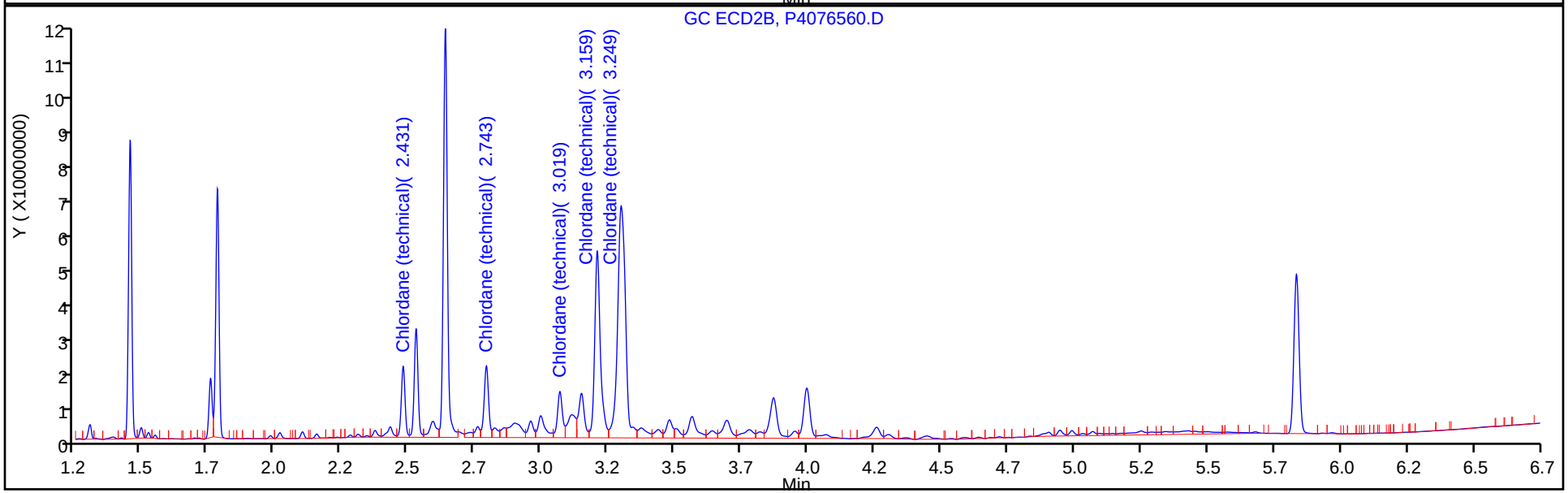
Report Date: 22-Mar-2018 13:35:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date:	22-Mar-2018 09:41:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV CHO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 22-Mar-2018 13:35:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076560.D

Injection Date: 22-Mar-2018 09:41:37 Instrument ID: CPESTGC4

Lims ID: CCV CHO

Client ID:

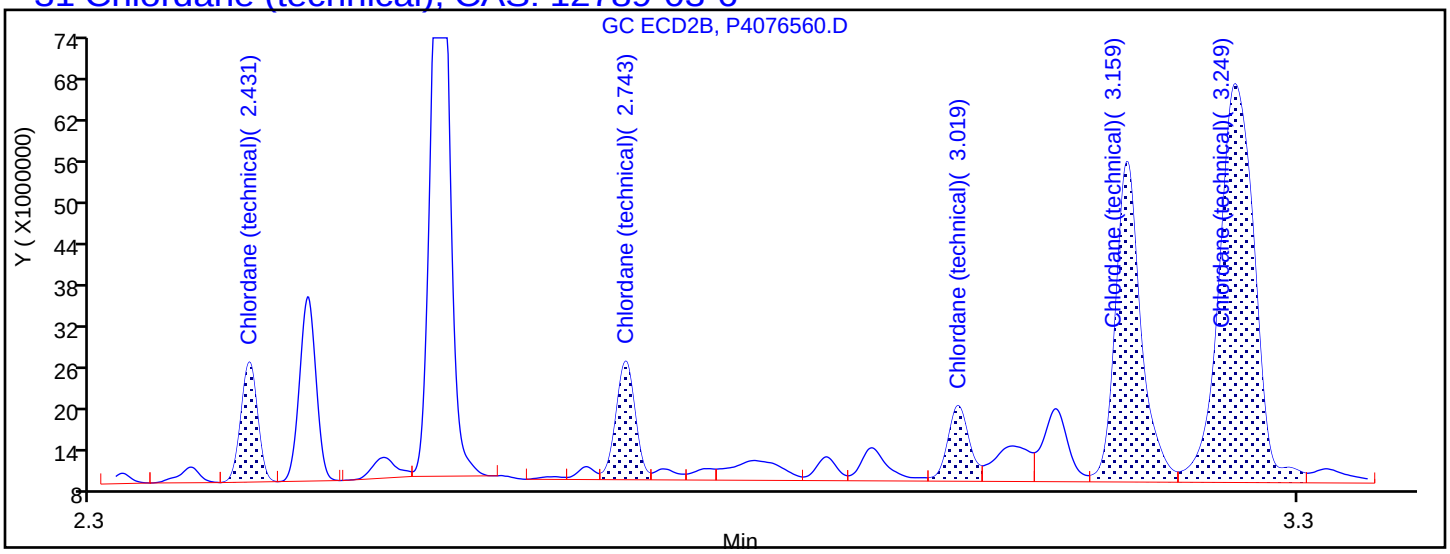
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

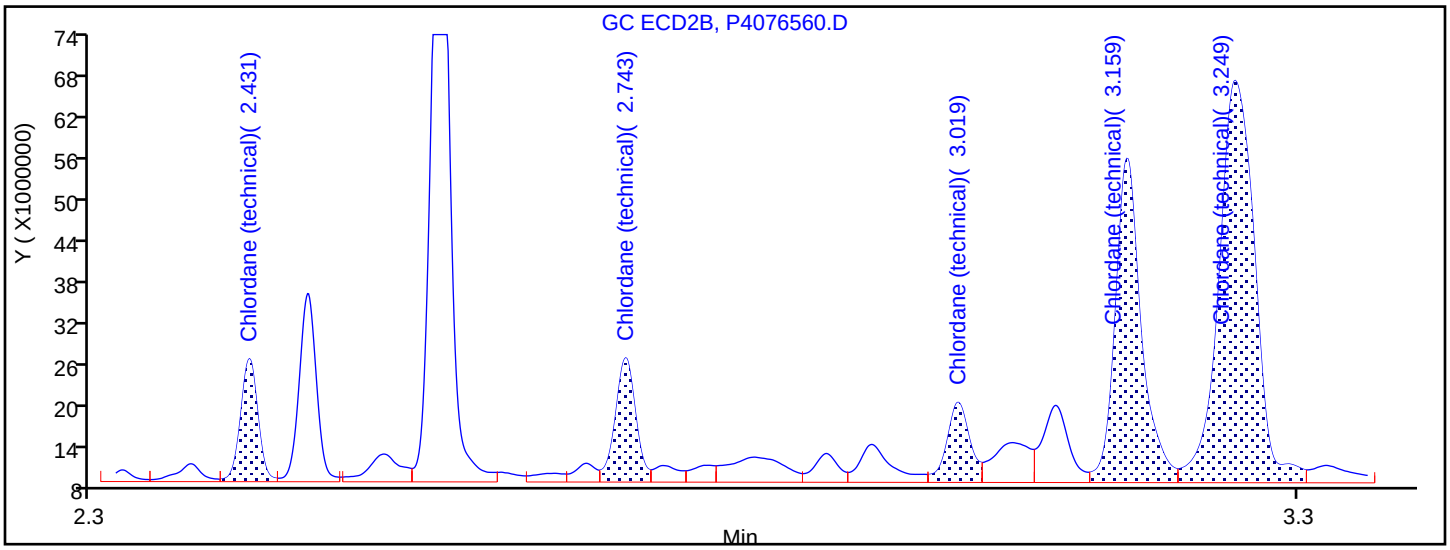
Column: Detector GC ECD2B

31 Chlordane (technical), CAS: 12789-03-6



Processing Integration Results

2.431	Response = 16715452
2.743	Response = 19244209
3.019	Response = 13630941
3.159	Response = 68567124
3.249	Response = 118197235



Manual Integration Results

2.431	Response = 17932304	M
2.743	Response = 21360657	M
3.019	Response = 15419554	M
3.159	Response = 71082481	M
3.249	Response = 121503436	M

Reviewer: kapoors, 22-Mar-2018 10:00:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076561.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.998	0.9804		98.2	100	-1.8	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.7484		101	100	1.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076561.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.06	2.05	2.07
DCB Decachlorobiphenyl	6.88	6.78	6.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:53:09 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:06:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.558	1.558	0.000	42382234	100.0	100.0	M
2	1.407	1.404	0.003	55082915	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.056	2.055	0.001	41550626	100.0	98.2	
2	1.735	1.732	0.003	50300817	100.0	96.5	
						RPD = 1.84	
22 Toxaphene							Ma
1	0.000	4.517	-4.517	0	1000.0	0	
1	4.984	4.978	0.006	13072184	1000.0	964.7	
1	5.054	5.048	0.006	22855509	1000.0	853.2	M
1	5.234	5.229	0.005	16653946	1000.0	1032.1	
1	5.591	5.586	0.005	13794450	1000.0	1026.0	
		Average of Peak Amounts =				969.0	
2	3.818	3.808	0.010	14904763	1000.0	1145.6	M
2	4.376	4.366	0.010	15694750	1000.0	1027.3	M
2	4.600	4.590	0.010	13854947	1000.0	857.4	M
2	4.701	4.694	0.007	18987676	1000.0	809.9	M
2	4.783	4.775	0.008	17484944	1000.0	810.6	M
		Average of Peak Amounts =				930.2	
						RPD = 4.09	
$ 24 DCB Decachlorobiphenyl							M
1	6.881	6.879	0.002	31720515	100.0	101.4	
2	5.786	5.784	0.002	49205976	100.0	98.6	M
						RPD = 2.77	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

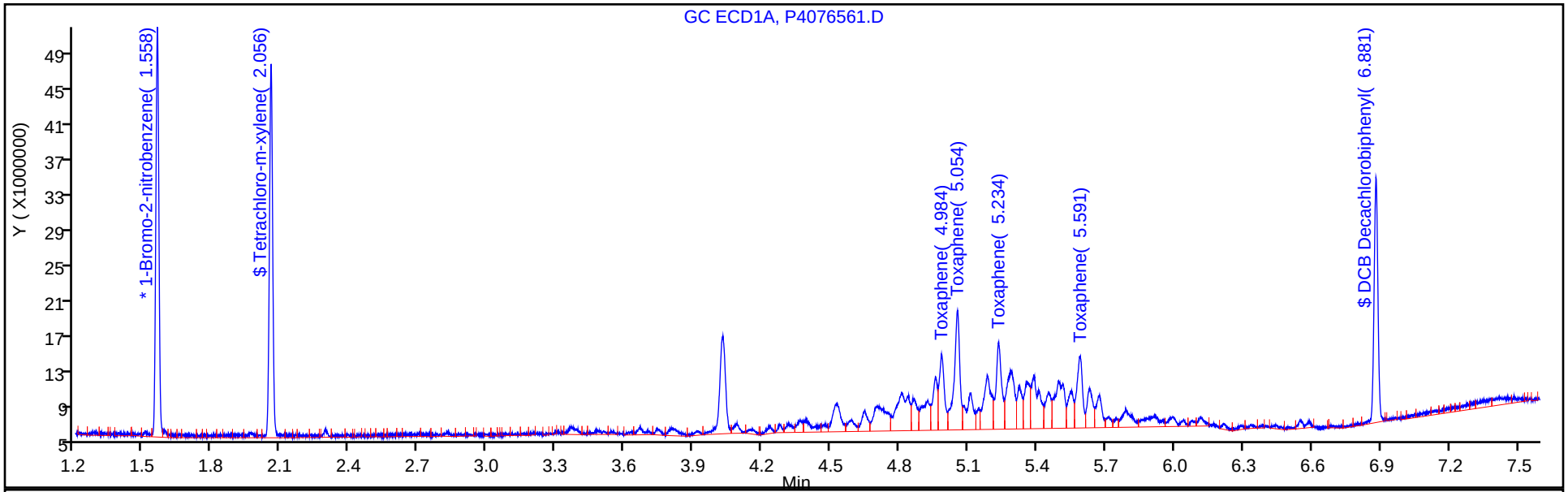
SGTOXL3_00030	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

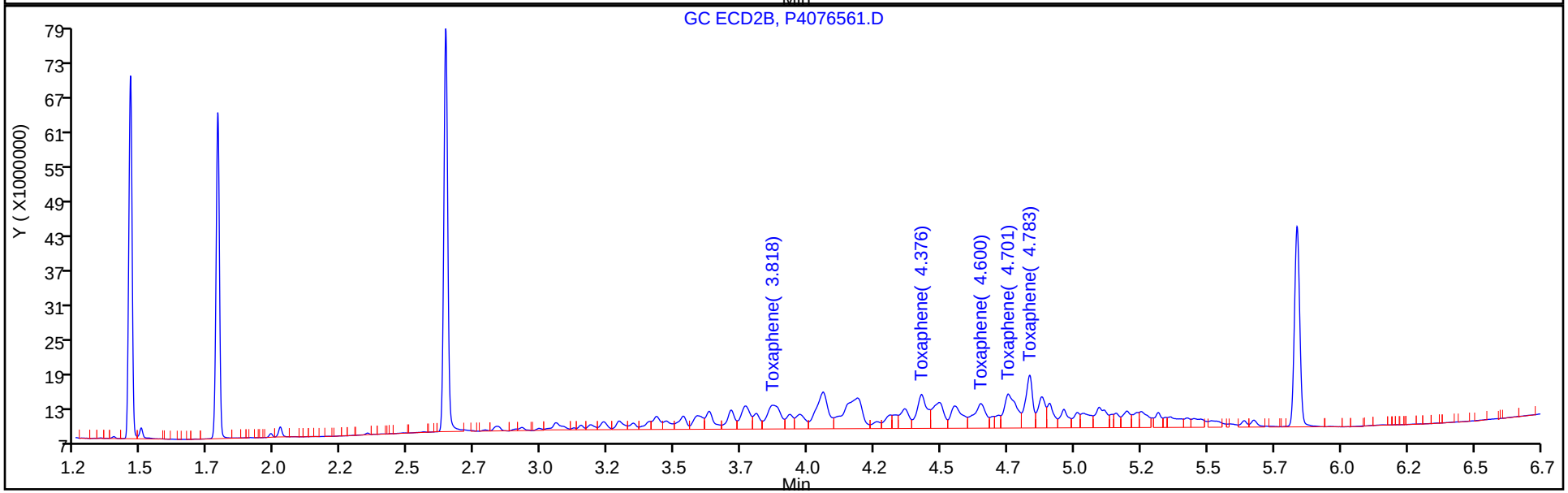
Report Date: 22-Mar-2018 13:35:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date:	22-Mar-2018 09:53:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

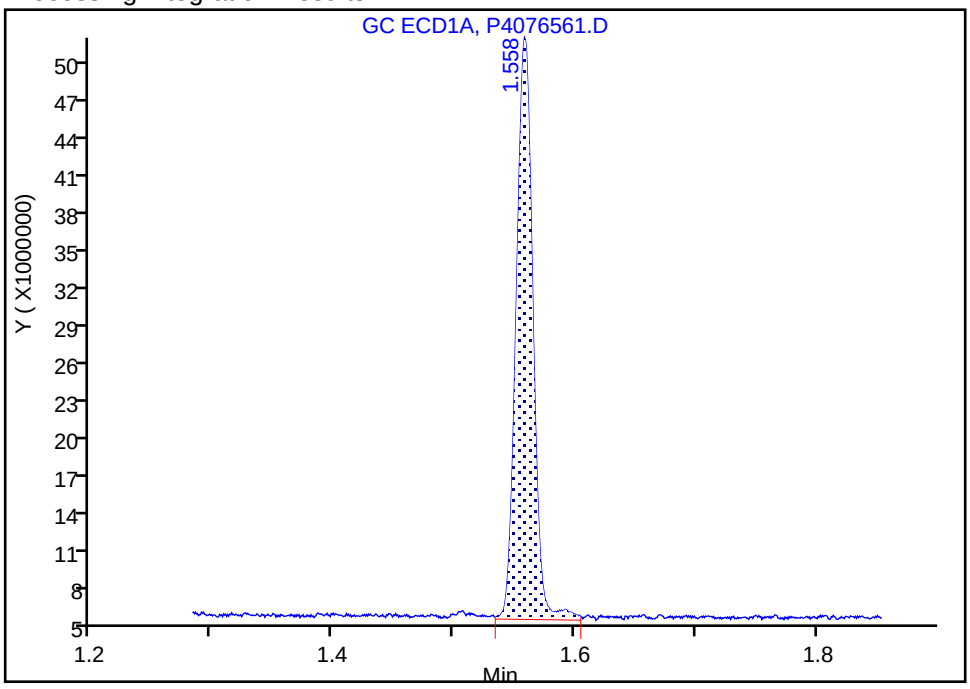
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Injection Date: 22-Mar-2018 09:53:09 Instrument ID: CPESTGC4
Lims ID: CCV TOX
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

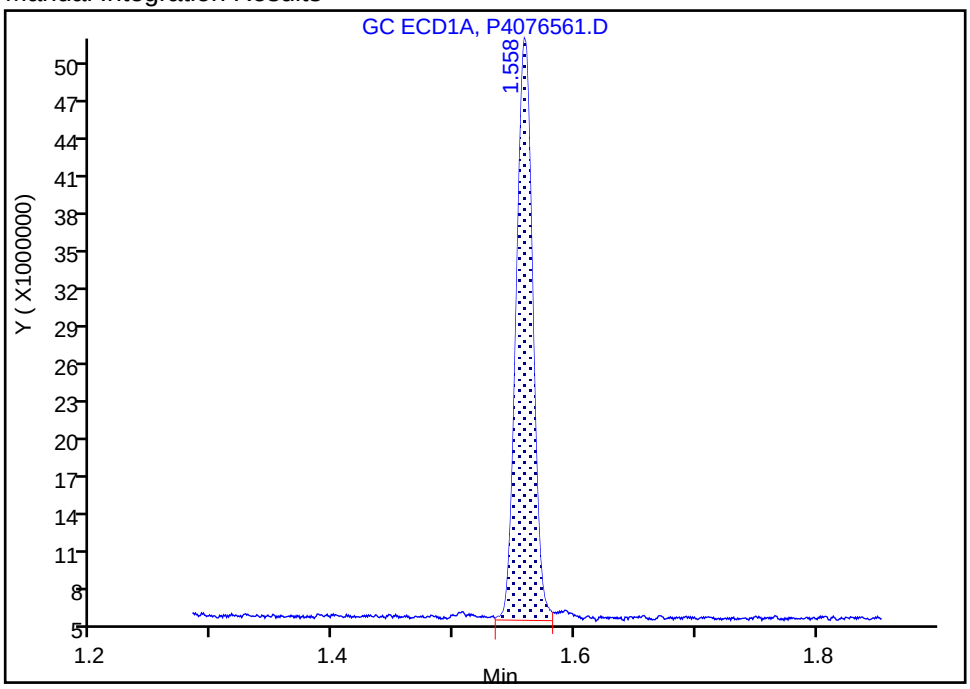
Processing Integration Results

RT: 1.56
Area: 43199928
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 42382234
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 10:06:33
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4076561.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0215	0.0000		0.110	1000	-100.0*	20.0
Toxaphene Peak 2	Ave	0.0320	0.0308		965	1000	-3.5	20.0
Toxaphene Peak 3	Ave	0.0632	0.0539		853	1000	-14.7	20.0
Toxaphene Peak 4	Ave	0.0381	0.0393		1030	1000	3.2	20.0
Toxaphene Peak 5	Ave	0.0317	0.0326		1030	1000	2.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4076561.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	0.00	4.51	4.53
Toxaphene Peak 2	4.98	4.97	4.99
Toxaphene Peak 3	5.05	5.04	5.06
Toxaphene Peak 4	5.23	5.22	5.24
Toxaphene Peak 5	5.59	5.58	5.60

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:53:09 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:06:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.558	1.558	0.000	42382234	100.0	100.0	M
2	1.407	1.404	0.003	55082915	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.056	2.055	0.001	41550626	100.0	98.2	
2	1.735	1.732	0.003	50300817	100.0	96.5	
						RPD = 1.84	
22 Toxaphene							Ma
1	0.000	4.517	-4.517	0	1000.0	0	
1	4.984	4.978	0.006	13072184	1000.0	964.7	
1	5.054	5.048	0.006	22855509	1000.0	853.2	M
1	5.234	5.229	0.005	16653946	1000.0	1032.1	
1	5.591	5.586	0.005	13794450	1000.0	1026.0	
		Average of Peak Amounts =				969.0	
2	3.818	3.808	0.010	14904763	1000.0	1145.6	M
2	4.376	4.366	0.010	15694750	1000.0	1027.3	M
2	4.600	4.590	0.010	13854947	1000.0	857.4	M
2	4.701	4.694	0.007	18987676	1000.0	809.9	M
2	4.783	4.775	0.008	17484944	1000.0	810.6	M
		Average of Peak Amounts =				930.2	
						RPD = 4.09	
$ 24 DCB Decachlorobiphenyl							M
1	6.881	6.879	0.002	31720515	100.0	101.4	
2	5.786	5.784	0.002	49205976	100.0	98.6	M
						RPD = 2.77	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

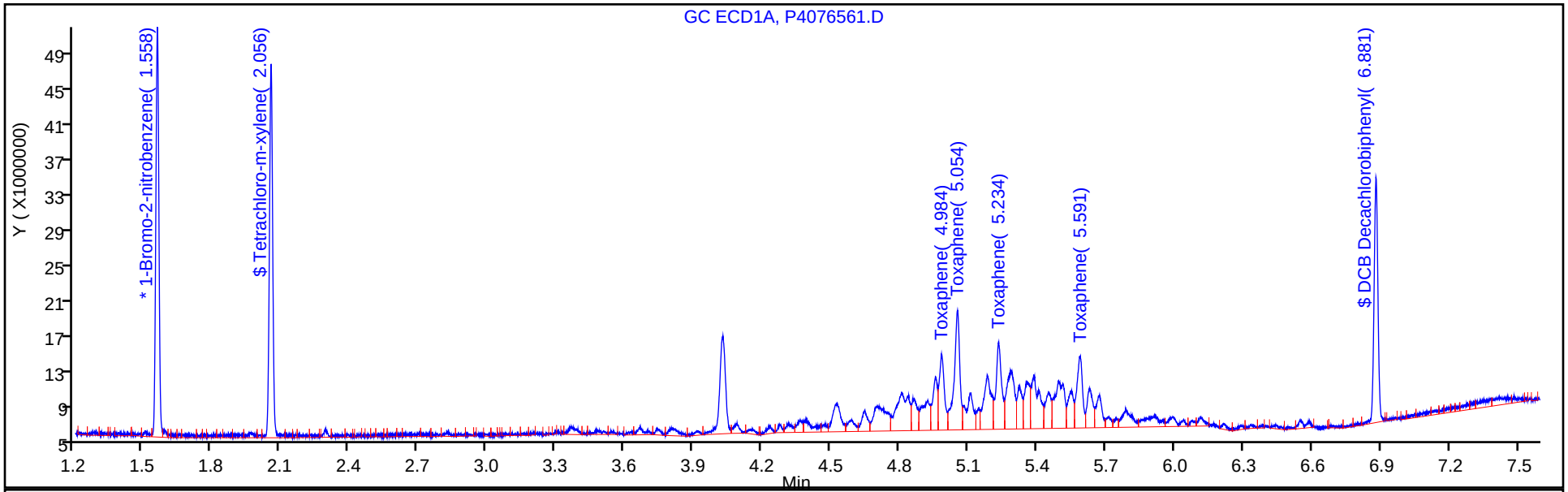
SGTOXL3_00030	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

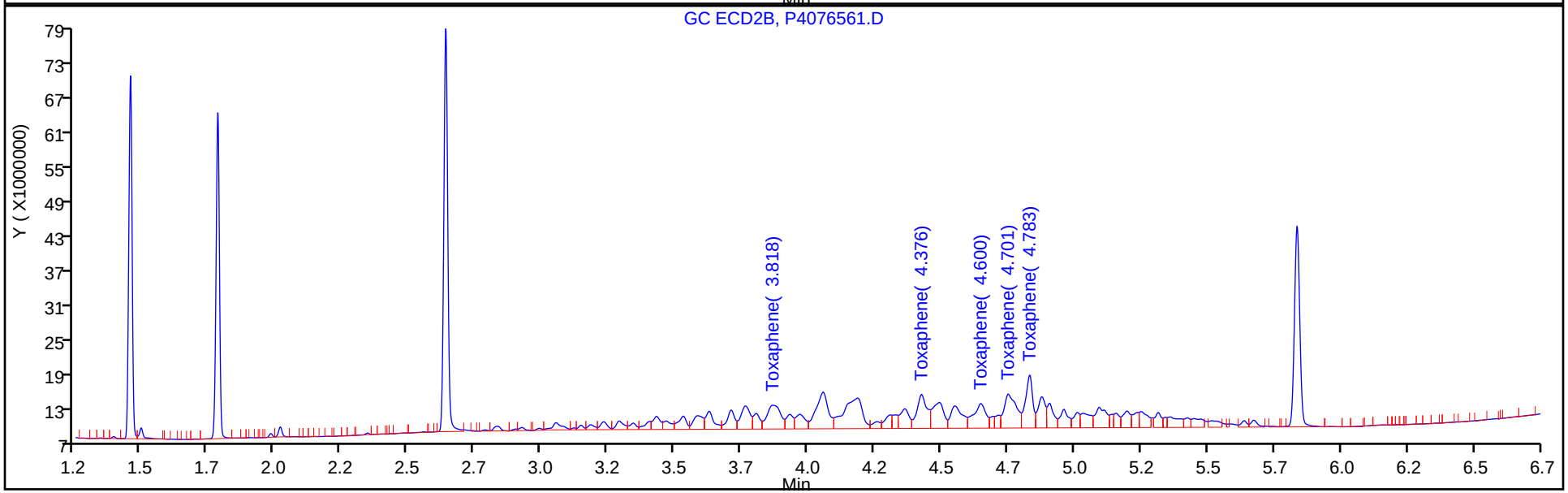
Report Date: 22-Mar-2018 13:35:47 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date:	22-Mar-2018 09:53:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

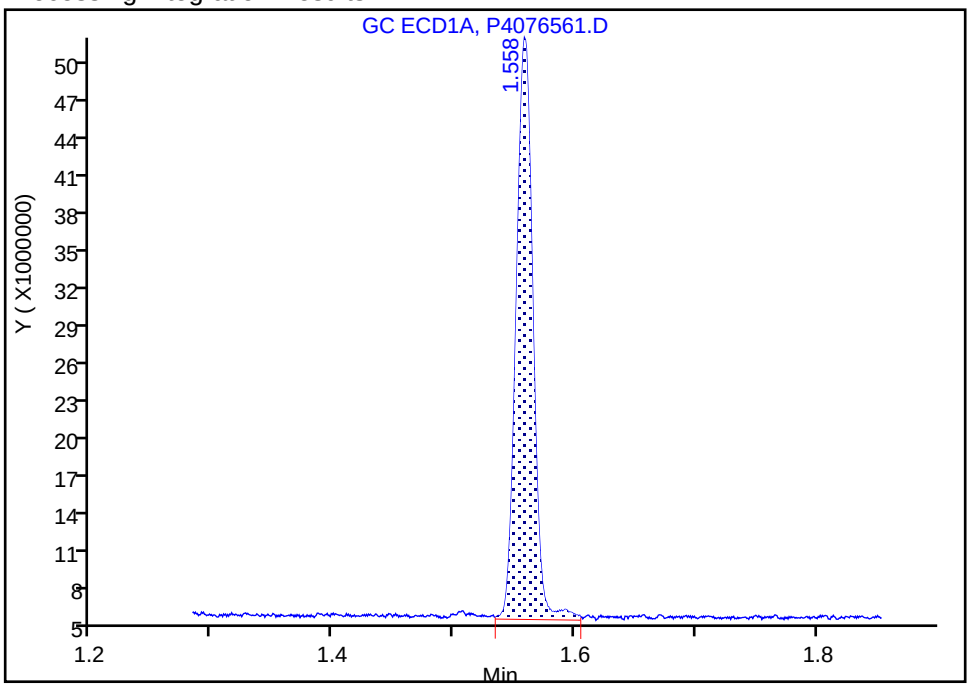
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Injection Date: 22-Mar-2018 09:53:09 Instrument ID: CPESTGC4
Lims ID: CCV TOX
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

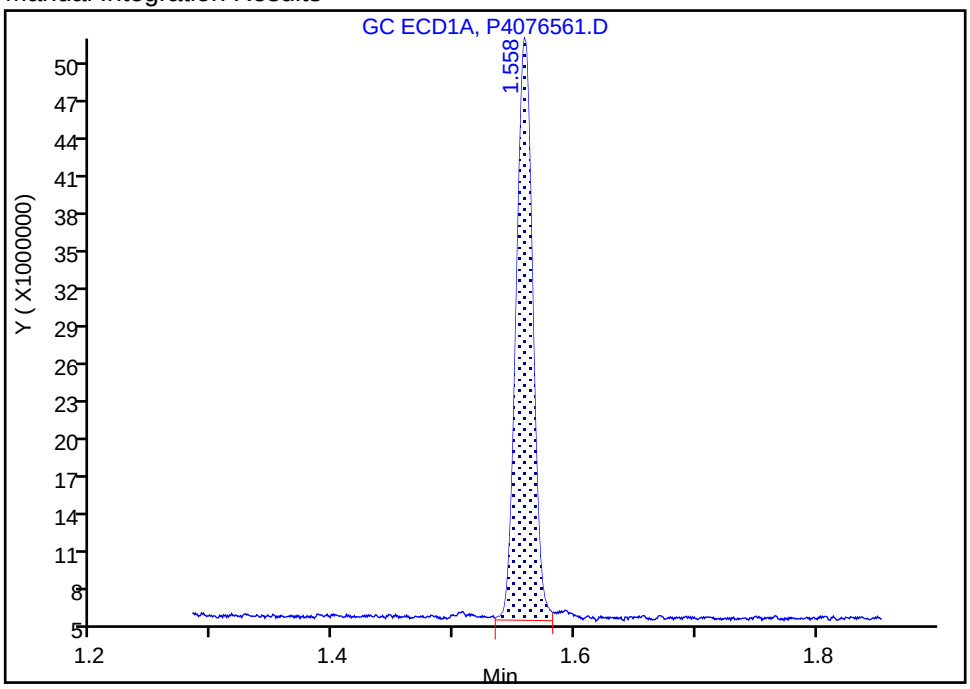
Processing Integration Results

RT: 1.56
Area: 43199928
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 42382234
Amount: 100.0000
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 10:06:33
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Report Date: 22-Mar-2018 13:35:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date: 22-Mar-2018 09:53:09 Instrument ID: CPESTGC4

Lims ID: CCV TOX

Client ID:

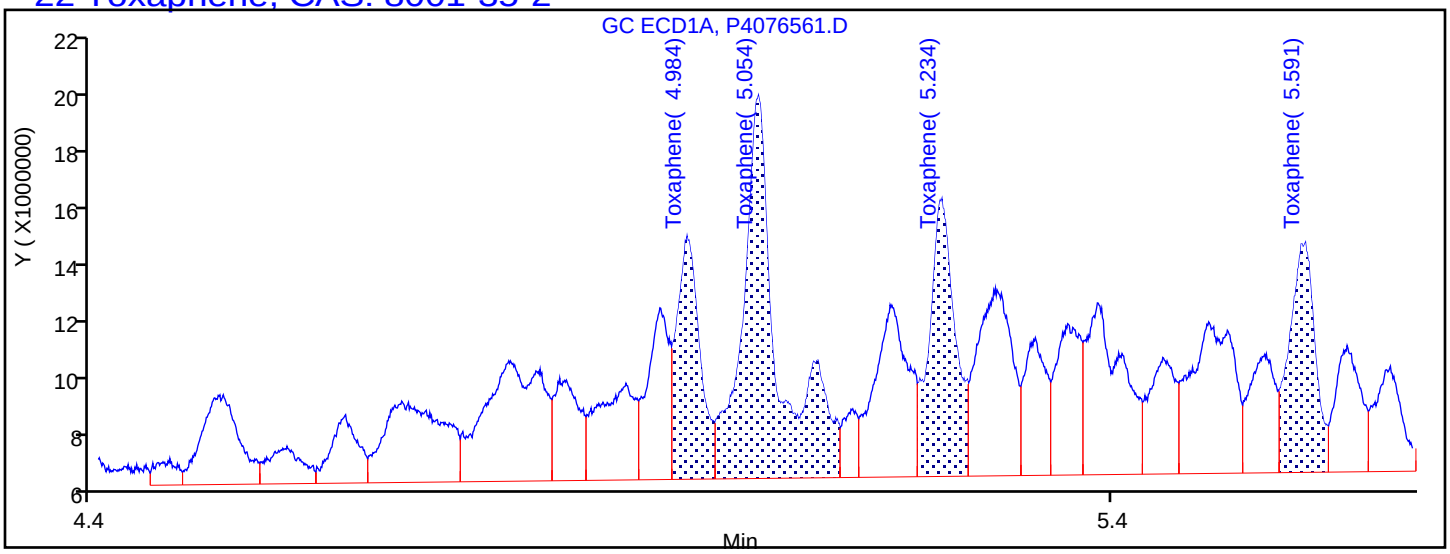
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

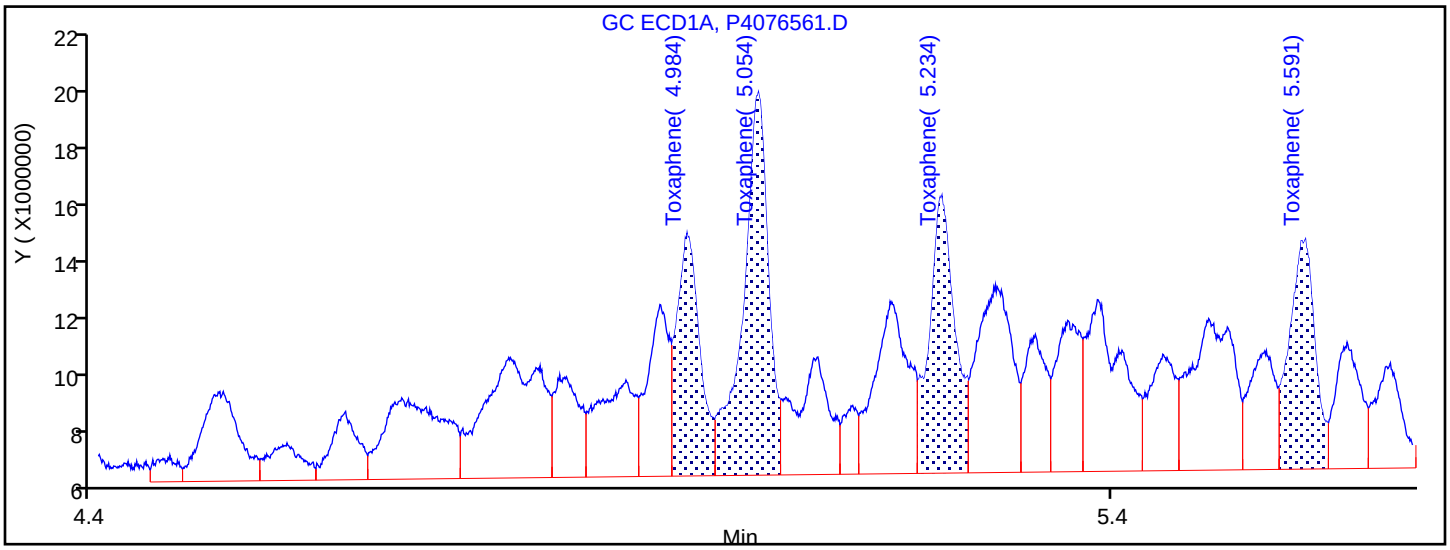
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.517	Response = 0
4.984	Response = 13072184
5.054	Response = 32216812
5.234	Response = 16653946
5.591	Response = 13794450



Manual Integration Results

4.517	Response = 0	
4.984	Response = 13072184	
5.054	Response = 22855509	M
5.234	Response = 16653946	
5.591	Response = 13794450	

Reviewer: kapoors, 22-Mar-2018 10:05:45

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

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076561.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.9467	0.9132		96.5	100	-3.5	20.0
DCB Decachlorobiphenyl	Ave	0.9059	0.8933		98.6	100	-1.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4076561.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.74	1.72	1.74
DCB Decachlorobiphenyl	5.79	5.68	5.88

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:53:09 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:06:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.558	1.558	0.000	42382234	100.0	100.0	M
2	1.407	1.404	0.003	55082915	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.056	2.055	0.001	41550626	100.0	98.2	
2	1.735	1.732	0.003	50300817	100.0	96.5	
						RPD = 1.84	
22 Toxaphene							Ma
1	0.000	4.517	-4.517	0	1000.0	0	
1	4.984	4.978	0.006	13072184	1000.0	964.7	
1	5.054	5.048	0.006	22855509	1000.0	853.2	M
1	5.234	5.229	0.005	16653946	1000.0	1032.1	
1	5.591	5.586	0.005	13794450	1000.0	1026.0	
		Average of Peak Amounts =				969.0	
2	3.818	3.808	0.010	14904763	1000.0	1145.6	M
2	4.376	4.366	0.010	15694750	1000.0	1027.3	M
2	4.600	4.590	0.010	13854947	1000.0	857.4	M
2	4.701	4.694	0.007	18987676	1000.0	809.9	M
2	4.783	4.775	0.008	17484944	1000.0	810.6	M
		Average of Peak Amounts =				930.2	
						RPD = 4.09	
$ 24 DCB Decachlorobiphenyl							M
1	6.881	6.879	0.002	31720515	100.0	101.4	
2	5.786	5.784	0.002	49205976	100.0	98.6	M
						RPD = 2.77	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

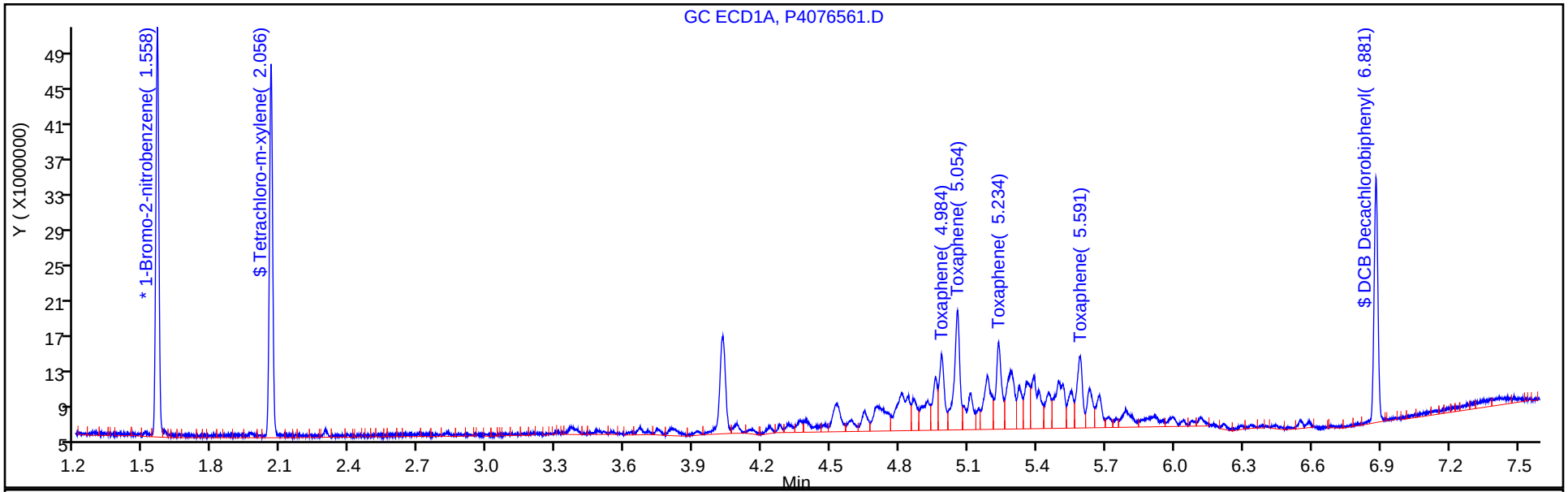
SGTOXL3_00030	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

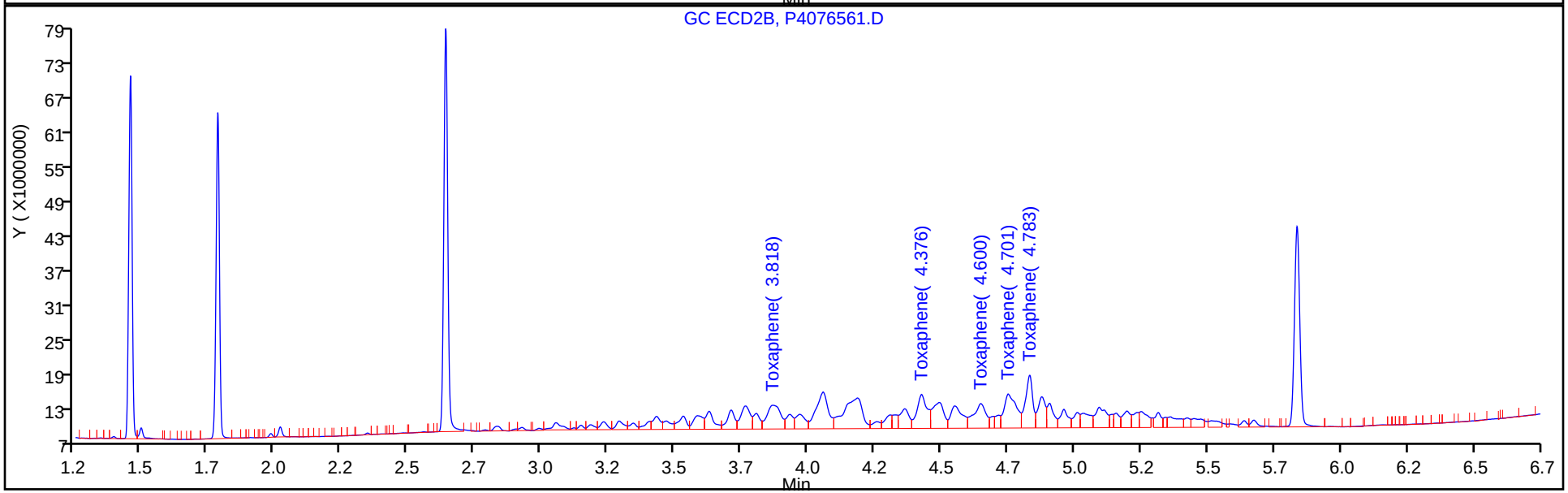
Report Date: 22-Mar-2018 13:35:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date:	22-Mar-2018 09:53:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

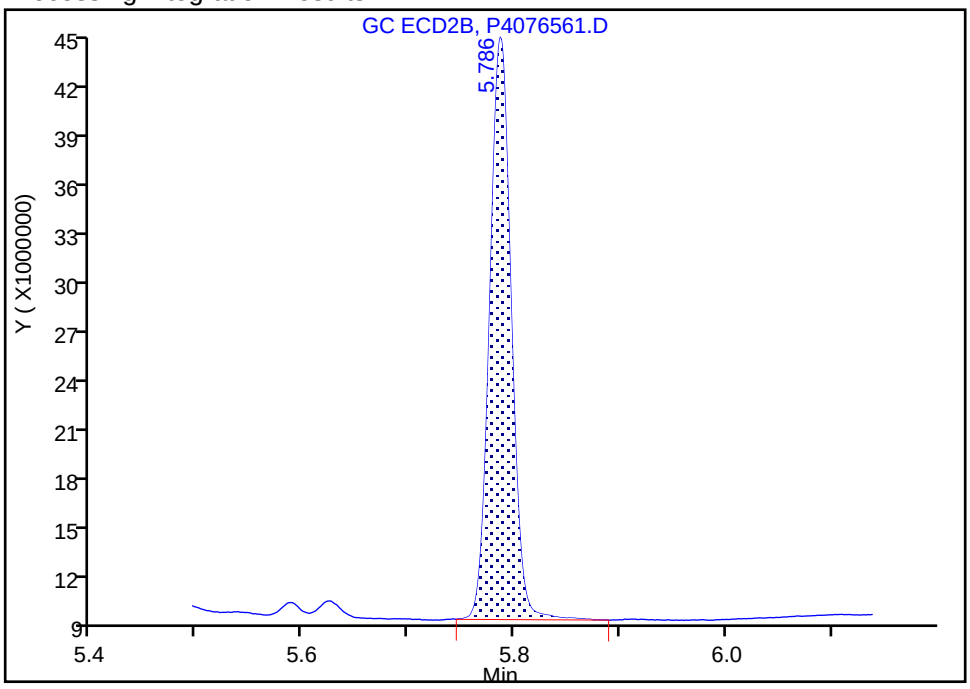
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D				
Injection Date:	22-Mar-2018 09:53:09	Instrument ID:	CPESTGC4		
Lims ID:	CCV TOX				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

$ 24 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

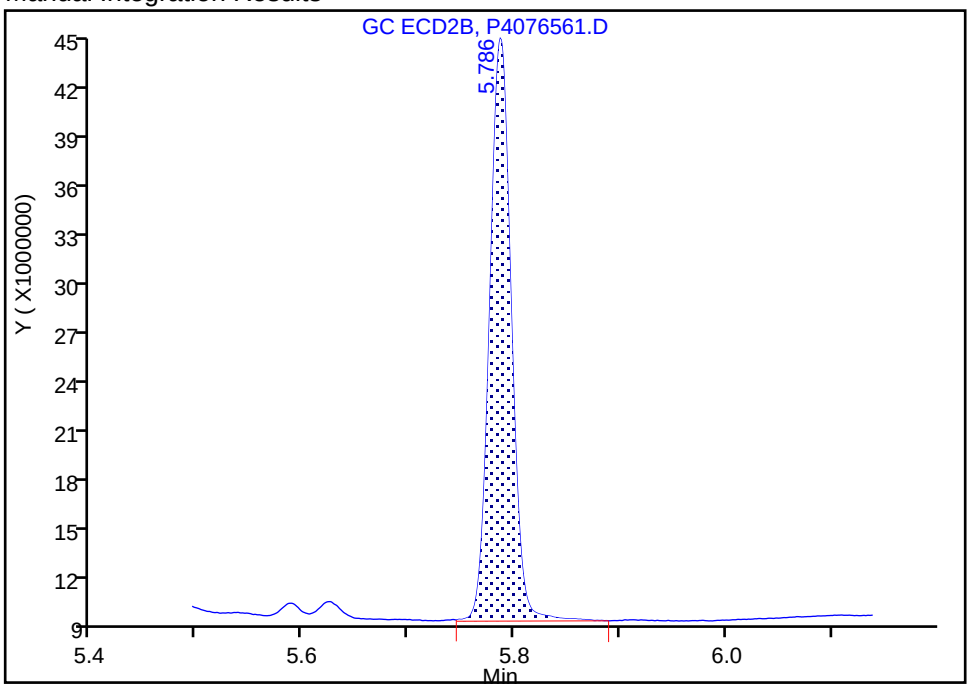
Processing Integration Results

RT: 5.79
Area: 48872419
Amount: 97.943099
Amount Units: ug/l



Manual Integration Results

RT: 5.79
Area: 49205976
Amount: 98.611566
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 10:08:12

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4076561.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0236	0.0271		1150	1000	14.6	20.0
Toxaphene Peak 2	Ave	0.0277	0.0285		1030	1000	2.7	20.0
Toxaphene Peak 3	Ave	0.0293	0.0252		857	1000	-14.3	20.0
Toxaphene Peak 4	Ave	0.0426	0.0345		810	1000	-19.0	20.0
Toxaphene Peak 5	Ave	0.0392	0.0317		811	1000	-18.9	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505161/5 Calibration Date: 03/22/2018 09:53

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4076561.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	3.82	3.80	3.82
Toxaphene Peak 2	4.38	4.36	4.38
Toxaphene Peak 3	4.60	4.58	4.60
Toxaphene Peak 4	4.70	4.68	4.70
Toxaphene Peak 5	4.78	4.77	4.79

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 09:53:09 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:06:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.558	1.558	0.000	42382234	100.0	100.0	M
2	1.407	1.404	0.003	55082915	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.056	2.055	0.001	41550626	100.0	98.2	
2	1.735	1.732	0.003	50300817	100.0	96.5	
						RPD = 1.84	
22 Toxaphene							Ma
1	0.000	4.517	-4.517	0	1000.0	0	
1	4.984	4.978	0.006	13072184	1000.0	964.7	
1	5.054	5.048	0.006	22855509	1000.0	853.2	M
1	5.234	5.229	0.005	16653946	1000.0	1032.1	
1	5.591	5.586	0.005	13794450	1000.0	1026.0	
		Average of Peak Amounts =				969.0	
2	3.818	3.808	0.010	14904763	1000.0	1145.6	M
2	4.376	4.366	0.010	15694750	1000.0	1027.3	M
2	4.600	4.590	0.010	13854947	1000.0	857.4	M
2	4.701	4.694	0.007	18987676	1000.0	809.9	M
2	4.783	4.775	0.008	17484944	1000.0	810.6	M
		Average of Peak Amounts =				930.2	
						RPD = 4.09	
$ 24 DCB Decachlorobiphenyl							M
1	6.881	6.879	0.002	31720515	100.0	101.4	
2	5.786	5.784	0.002	49205976	100.0	98.6	M
						RPD = 2.77	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

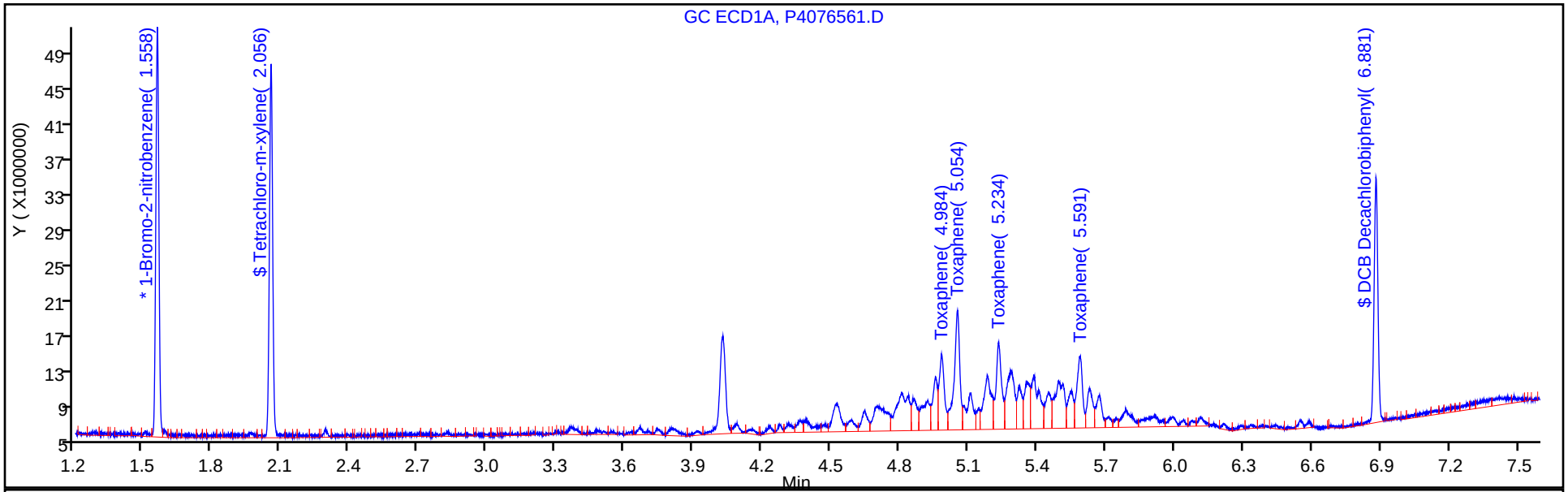
SGTOXL3_00030	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

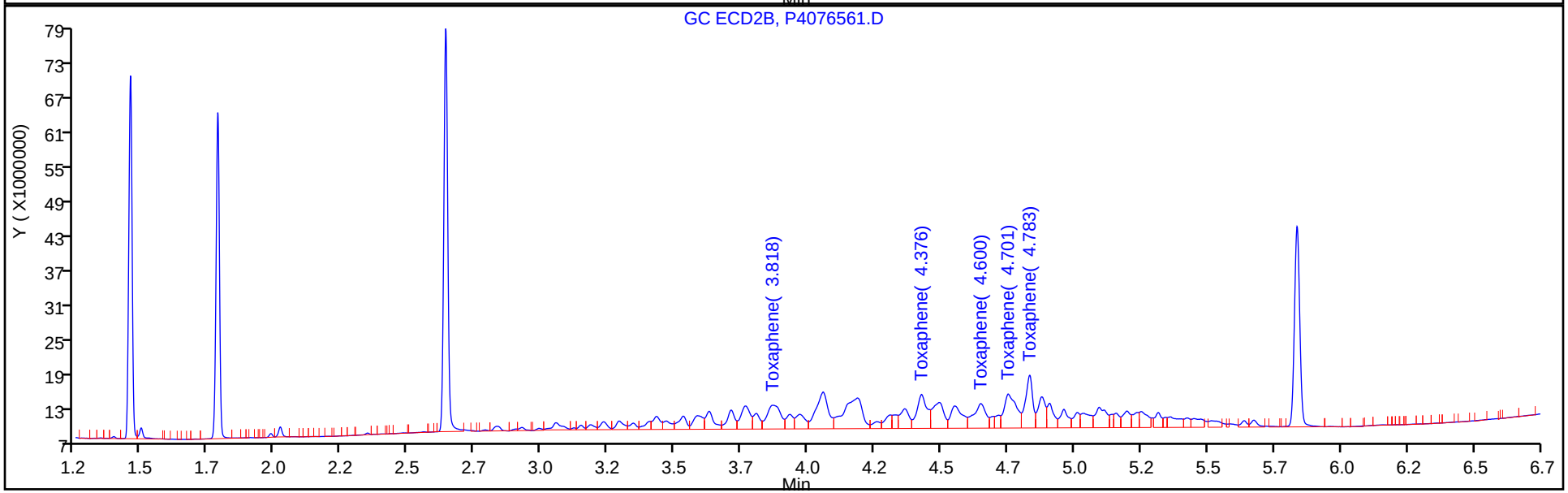
Report Date: 22-Mar-2018 13:35:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date:	22-Mar-2018 09:53:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 22-Mar-2018 13:35:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076561.D

Injection Date: 22-Mar-2018 09:53:09 Instrument ID: CPESTGC4

Lims ID: CCV TOX

Client ID:

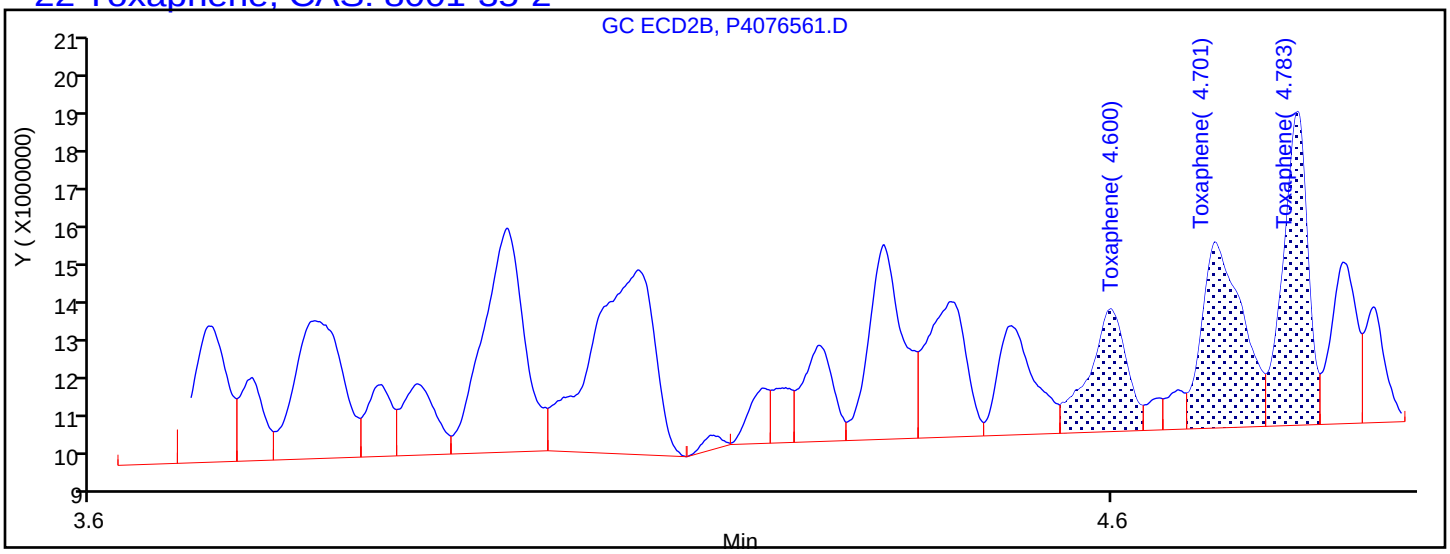
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

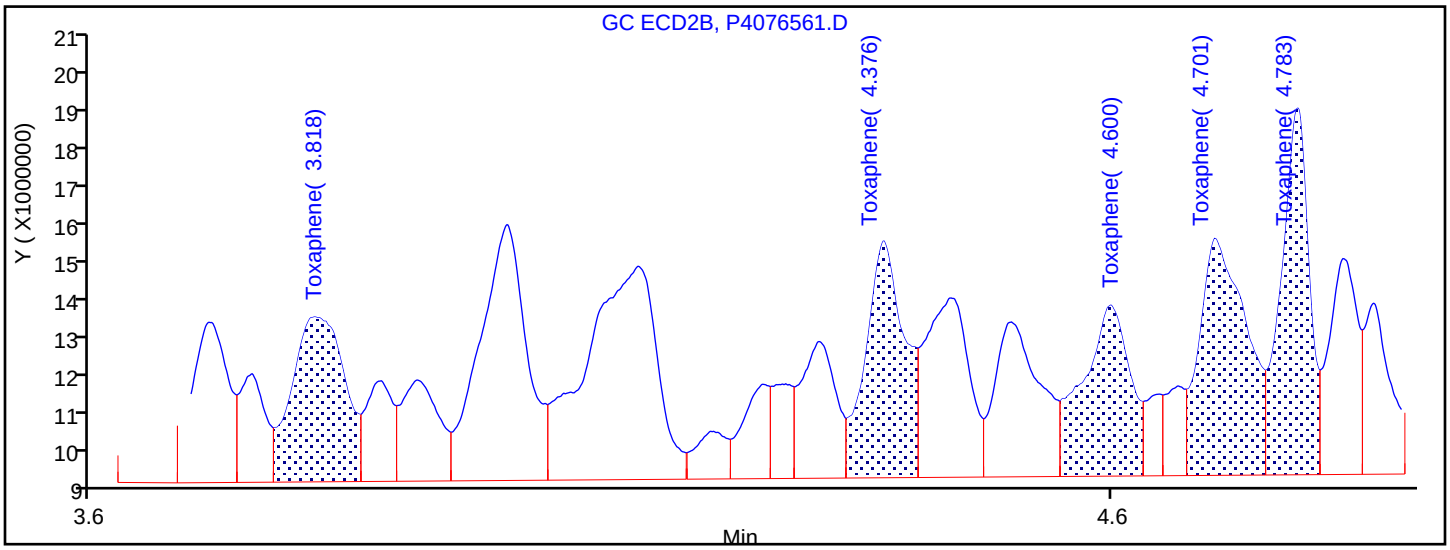
Column: Detector GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

3.808	Response = 0
4.366	Response = 0
4.600	Response = 7951810
4.701	Response = 12998836
4.783	Response = 13220932



Manual Integration Results

3.818	Response = 14904763	M
4.376	Response = 15694750	M
4.600	Response = 13854947	M
4.701	Response = 18987676	M
4.783	Response = 17484944	M

Reviewer: kapoors, 22-Mar-2018 10:08:12

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-495906/9 Calibration Date: 02/08/2018 16:25

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F917986.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.743	1.888		108	100	8.4	20.0
gamma-BHC (Lindane)	Ave	1.636	1.755		107	100	7.3	20.0
beta-BHC	Ave	0.6887	0.7248		105	100	5.2	20.0
delta-BHC	Ave	1.636	1.762		108	100	7.7	20.0
Heptachlor	Ave	1.811	1.935		107	100	6.8	20.0
Aldrin	Ave	1.644	1.778		108	100	8.2	20.0
Heptachlor epoxide	Ave	1.552	1.660		107	100	6.9	20.0
trans-Chlordane	Ave	1.608	1.721		107	100	7.0	20.0
cis-Chlordane	Ave	1.556	1.649		106	100	5.9	20.0
Endosulfan I	Ave	1.592	1.707		107	100	7.3	20.0
4,4'-DDE	Ave	1.493	1.595		107	100	6.8	20.0
Dieldrin	Ave	1.692	1.799		106	100	6.3	20.0
Endrin	Ave	1.402	1.539		110	100	9.8	20.0
4,4'-DDD	Ave	1.301	1.432		110	100	10.1	20.0
Endosulfan II	Ave	1.410	1.493		106	100	5.9	20.0
4,4'-DDT	Ave	1.490	1.617		109	100	8.6	20.0
Endrin aldehyde	Ave	1.166	1.264		108	100	8.4	20.0
Endosulfan sulfate	Ave	0.8050	0.8859		110	100	10.0	20.0
Methoxychlor	Ave	1.096	1.143		104	100	4.4	20.0
Mirex	Ave	1.329	1.461		110	100	9.9	20.0
Endrin ketone	Ave	1.594	1.706		107	100	7.0	20.0
Tetrachloro-m-xylene	Ave	1.090	1.171		107	100	7.5	20.0
DCB Decachlorobiphenyl	Ave	1.345	1.422		106	100	5.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-495906/9 Calibration Date: 02/08/2018 16:25

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F917986.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.40	2.39	2.41
gamma-BHC (Lindane)	2.60	2.59	2.61
beta-BHC	2.65	2.63	2.65
delta-BHC	2.77	2.76	2.78
Heptachlor	2.92	2.91	2.93
Aldrin	3.15	3.13	3.15
Heptachlor epoxide	3.65	3.63	3.65
trans-Chlordane	3.76	3.75	3.77
cis-Chlordane	3.89	3.88	3.90
Endosulfan I	3.95	3.93	3.95
4,4'-DDE	4.04	4.02	4.04
Dieldrin	4.29	4.28	4.30
Endrin	4.54	4.52	4.54
4,4'-DDD	4.59	4.57	4.59
Endosulfan II	4.75	4.73	4.75
4,4'-DDT	4.83	4.82	4.84
Endrin aldehyde	5.05	5.04	5.06
Endosulfan sulfate	5.16	5.15	5.17
Methoxychlor	5.26	5.25	5.27
Mirex	5.33	5.32	5.34
Endrin ketone	5.51	5.49	5.51
Tetrachloro-m-xylene	2.07	2.06	2.08
DCB Decachlorobiphenyl	6.32	6.31	6.33

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917986.D
Lims ID: ICV PEST
Client ID:
Sample Type: ICV
Inject. Date: 08-Feb-2018 16:25:12 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-009
Operator ID: Instrument ID: CPESTGC5
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:21:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.677	0.005	105146058	100.0	100.0	
2	1.699	1.693	0.006	53812659	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.070	2.065	0.005	123129524	100.0	107.5	
2	2.087	2.082	0.005	59653399	100.0	104.9	
						RPD = 2.46	
15 alpha-BHC							
1	2.404	2.398	0.006	198540023	100.0	108.4	
2	2.420	2.414	0.006	93617001	100.0	107.5	
						RPD = 0.79	
2 gamma-BHC (Lindane)							
1	2.602	2.597	0.005	184548850	100.0	107.3	
2	2.617	2.612	0.005	88394306	100.0	107.4	
						RPD = 0.12	
6 beta-BHC							
1	2.650	2.644	0.006	76206297	100.0	105.2	
2	2.663	2.657	0.006	38566921	100.0	105.7	
						RPD = 0.40	
32 delta-BHC							
1	2.774	2.768	0.006	185257544	100.0	107.7	
2	2.789	2.782	0.007	89329896	100.0	104.9	
						RPD = 2.57	
18 Heptachlor							
1	2.924	2.918	0.006	203405621	100.0	106.8	
2	2.938	2.932	0.006	95417539	100.0	105.1	
						RPD = 1.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.150	3.144	0.006	186982128	100.0	108.2	
2	3.164	3.157	0.007	87604707	100.0	104.1	
						RPD = 3.87	
12 Heptachlor epoxide							
1	3.650	3.644	0.006	174492008	100.0	106.9	
2	3.663	3.656	0.007	83422239	100.0	103.5	
						RPD = 3.19	
9 gamma-Chlordane							
1	3.764	3.757	0.007	180909195	100.0	107.0	
2	3.776	3.769	0.007	85001957	100.0	105.1	
						RPD = 1.79	
23 alpha-Chlordane							
1	3.893	3.886	0.007	173334884	100.0	105.9	
2	3.905	3.897	0.008	82194768	100.0	103.4	
						RPD = 2.39	
7 Endosulfan I							
1	3.950	3.943	0.007	179478438	100.0	107.3	
2	4.053	4.046	0.007	79205522	100.0	104.8	
						RPD = 2.35	
25 4,4'-DDE							
1	4.041	4.034	0.007	167721972	100.0	106.8	
2	3.961	3.953	0.008	83506085	100.0	103.7	
						RPD = 2.97	
30 Dieldrin							
1	4.293	4.287	0.006	189121571	100.0	106.3	
2	4.304	4.297	0.007	86805812	100.0	105.1	
						RPD = 1.12	
20 Endrin							
1	4.538	4.532	0.006	161865385	100.0	109.8	
2	4.548	4.542	0.006	76230418	100.0	103.2	
						RPD = 6.16	
16 4,4'-DDD							
1	4.585	4.579	0.006	150618416	100.0	110.1	
2	4.594	4.587	0.007	69047578	100.0	106.0	
						RPD = 3.86	
11 Endosulfan II							
1	4.746	4.742	0.004	157022990	100.0	105.9	
2	4.754	4.749	0.005	71078643	100.0	102.4	
						RPD = 3.37	
21 4,4'-DDT							
1	4.830	4.826	0.004	170044980	100.0	108.6	
2	4.836	4.832	0.004	72671739	100.0	102.4	
						RPD = 5.80	
5 Endrin aldehyde							
1	5.050	5.046	0.004	132872094	100.0	108.4	
2	5.054	5.050	0.004	57206276	100.0	106.2	
						RPD = 2.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.160	5.157	0.003	93144361	100.0	110.0	
2	5.330	5.327	0.003	64083958	100.0	106.3	
						RPD = 3.48	
10 Methoxychlor							
1	5.259	5.255	0.004	120223424	100.0	104.4	
2	5.164	5.160	0.004	38943078	100.0	108.1	
						RPD = 3.52	
34 Mirex							
1	5.329	5.325	0.004	153597549	100.0	109.9	
2	5.262	5.258	0.004	50364501	100.0	103.3	
						RPD = 6.19	
13 Endrin ketone							
1	5.508	5.504	0.004	179353100	100.0	107.0	
2	5.509	5.505	0.004	70995946	100.0	102.9	
						RPD = 3.89	
$ 24 DCB Decachlorobiphenyl							
1	6.320	6.317	0.003	149565097	100.0	105.8	
2	6.317	6.314	0.003	61595121	100.0	100.5	
						RPD = 5.10	

Reagents:

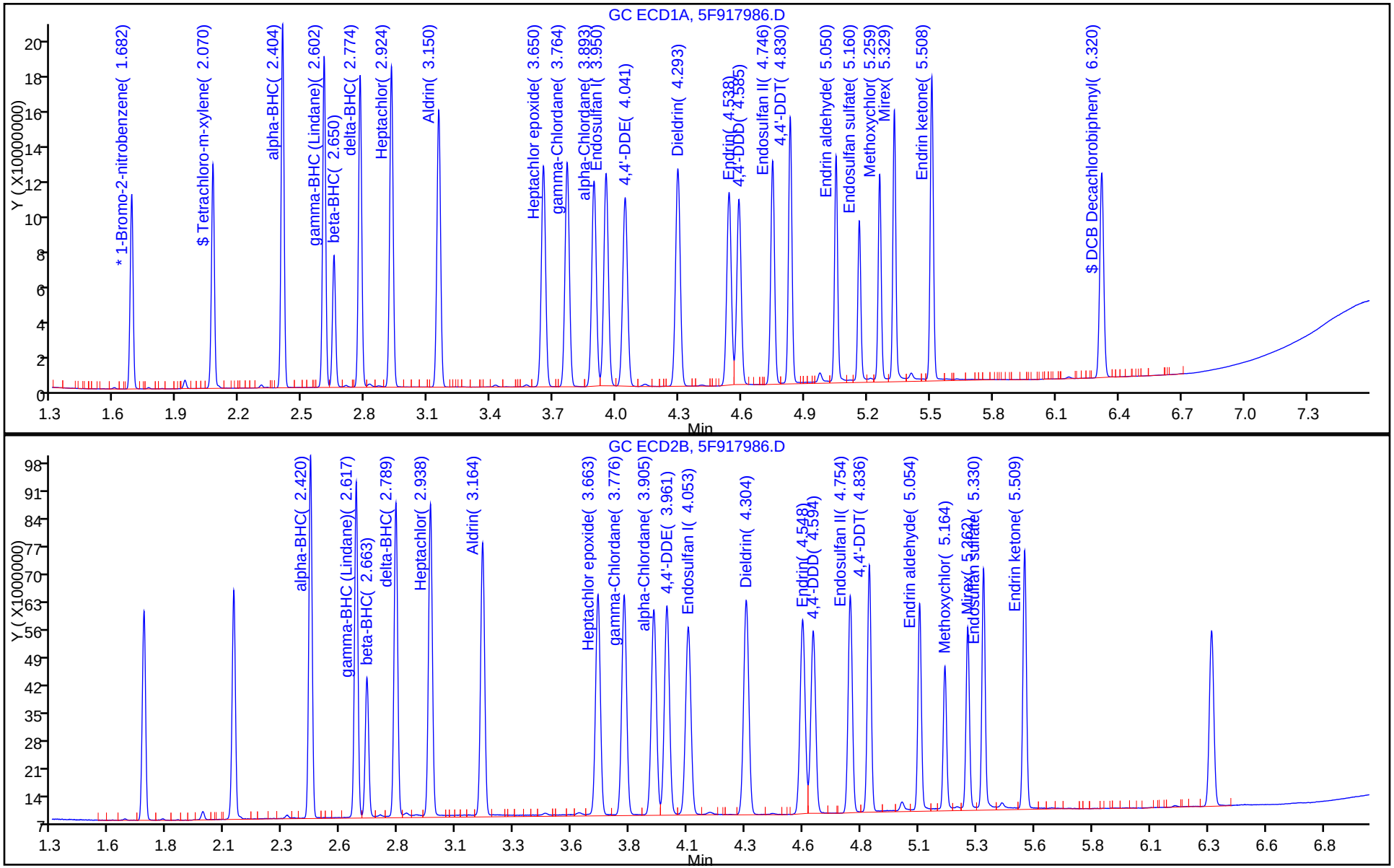
SGPTICV_00035	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917986.D

Injection Date:	08-Feb-2018 16:25:12	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	ICV PEST			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-495906/9 Calibration Date: 02/08/2018 16:25

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F917986.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.618	1.740		108	100	7.5	20.0
gamma-BHC (Lindane)	Ave	1.529	1.643		107	100	7.4	20.0
beta-BHC	Ave	0.6783	0.7167		106	100	5.7	20.0
delta-BHC	Ave	1.582	1.660		105	100	4.9	20.0
Heptachlor	Ave	1.687	1.773		105	100	5.1	20.0
Aldrin	Ave	1.564	1.628		104	100	4.1	20.0
Heptachlor epoxide	Ave	1.497	1.550		104	100	3.5	20.0
trans-Chlordane	Ave	1.503	1.580		105	100	5.1	20.0
cis-Chlordane	Ave	1.477	1.527		103	100	3.4	20.0
4,4'-DDE	Ave	1.496	1.552		104	100	3.7	20.0
Endosulfan I	Ave	1.405	1.472		105	100	4.8	20.0
Dieldrin	Ave	1.535	1.613		105	100	5.1	20.0
Endrin	Ave	1.372	1.417		103	100	3.2	20.0
4,4'-DDD	Ave	1.211	1.283		106	100	6.0	20.0
Endosulfan II	Ave	1.290	1.321		102	100	2.4	20.0
4,4'-DDT	Ave	1.318	1.350		102	100	2.4	20.0
Endrin aldehyde	Ave	1.001	1.063		106	100	6.2	20.0
Methoxychlor	Ave	0.6694	0.7237		108	100	8.1	20.0
Mirex	Ave	0.9060	0.9359		103	100	3.3	20.0
Endosulfan sulfate	Ave	1.121	1.191		106	100	6.3	20.0
Endrin ketone	Ave	1.282	1.319		103	100	2.9	20.0
Tetrachloro-m-xylene	Ave	1.057	1.109		105	100	4.9	20.0
DCB Decachlorobiphenyl	Ave	1.139	1.145		101	100	0.5	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-495906/9 Calibration Date: 02/08/2018 16:25

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F917986.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.42	2.40	2.42
gamma-BHC (Lindane)	2.62	2.60	2.62
beta-BHC	2.66	2.65	2.67
delta-BHC	2.79	2.77	2.79
Heptachlor	2.94	2.92	2.94
Aldrin	3.16	3.15	3.17
Heptachlor epoxide	3.66	3.65	3.67
trans-Chlordane	3.78	3.76	3.78
cis-Chlordane	3.91	3.89	3.91
4,4'-DDE	3.96	3.94	3.96
Endosulfan I	4.05	4.04	4.06
Dieldrin	4.30	4.29	4.31
Endrin	4.55	4.53	4.55
4,4'-DDD	4.59	4.58	4.60
Endosulfan II	4.75	4.74	4.76
4,4'-DDT	4.84	4.82	4.84
Endrin aldehyde	5.05	5.04	5.06
Methoxychlor	5.16	5.15	5.17
Mirex	5.26	5.25	5.27
Endosulfan sulfate	5.33	5.32	5.34
Endrin ketone	5.51	5.50	5.52
Tetrachloro-m-xylene	2.09	2.07	2.09
DCB Decachlorobiphenyl	6.32	6.30	6.32

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917986.D
Lims ID: ICV PEST
Client ID:
Sample Type: ICV
Inject. Date: 08-Feb-2018 16:25:12 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0067231-009
Operator ID: Instrument ID: CPESTGC5
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 09-Feb-2018 12:03:58 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK016

First Level Reviewer: kapoors Date: 09-Feb-2018 07:21:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.677	0.005	105146058	100.0	100.0	
2	1.699	1.693	0.006	53812659	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.070	2.065	0.005	123129524	100.0	107.5	
2	2.087	2.082	0.005	59653399	100.0	104.9	
						RPD = 2.46	
15 alpha-BHC							
1	2.404	2.398	0.006	198540023	100.0	108.4	
2	2.420	2.414	0.006	93617001	100.0	107.5	
						RPD = 0.79	
2 gamma-BHC (Lindane)							
1	2.602	2.597	0.005	184548850	100.0	107.3	
2	2.617	2.612	0.005	88394306	100.0	107.4	
						RPD = 0.12	
6 beta-BHC							
1	2.650	2.644	0.006	76206297	100.0	105.2	
2	2.663	2.657	0.006	38566921	100.0	105.7	
						RPD = 0.40	
32 delta-BHC							
1	2.774	2.768	0.006	185257544	100.0	107.7	
2	2.789	2.782	0.007	89329896	100.0	104.9	
						RPD = 2.57	
18 Heptachlor							
1	2.924	2.918	0.006	203405621	100.0	106.8	
2	2.938	2.932	0.006	95417539	100.0	105.1	
						RPD = 1.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.150	3.144	0.006	186982128	100.0	108.2	
2	3.164	3.157	0.007	87604707	100.0	104.1	
						RPD = 3.87	
12 Heptachlor epoxide							
1	3.650	3.644	0.006	174492008	100.0	106.9	
2	3.663	3.656	0.007	83422239	100.0	103.5	
						RPD = 3.19	
9 gamma-Chlordane							
1	3.764	3.757	0.007	180909195	100.0	107.0	
2	3.776	3.769	0.007	85001957	100.0	105.1	
						RPD = 1.79	
23 alpha-Chlordane							
1	3.893	3.886	0.007	173334884	100.0	105.9	
2	3.905	3.897	0.008	82194768	100.0	103.4	
						RPD = 2.39	
7 Endosulfan I							
1	3.950	3.943	0.007	179478438	100.0	107.3	
2	4.053	4.046	0.007	79205522	100.0	104.8	
						RPD = 2.35	
25 4,4'-DDE							
1	4.041	4.034	0.007	167721972	100.0	106.8	
2	3.961	3.953	0.008	83506085	100.0	103.7	
						RPD = 2.97	
30 Dieldrin							
1	4.293	4.287	0.006	189121571	100.0	106.3	
2	4.304	4.297	0.007	86805812	100.0	105.1	
						RPD = 1.12	
20 Endrin							
1	4.538	4.532	0.006	161865385	100.0	109.8	
2	4.548	4.542	0.006	76230418	100.0	103.2	
						RPD = 6.16	
16 4,4'-DDD							
1	4.585	4.579	0.006	150618416	100.0	110.1	
2	4.594	4.587	0.007	69047578	100.0	106.0	
						RPD = 3.86	
11 Endosulfan II							
1	4.746	4.742	0.004	157022990	100.0	105.9	
2	4.754	4.749	0.005	71078643	100.0	102.4	
						RPD = 3.37	
21 4,4'-DDT							
1	4.830	4.826	0.004	170044980	100.0	108.6	
2	4.836	4.832	0.004	72671739	100.0	102.4	
						RPD = 5.80	
5 Endrin aldehyde							
1	5.050	5.046	0.004	132872094	100.0	108.4	
2	5.054	5.050	0.004	57206276	100.0	106.2	
						RPD = 2.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.160	5.157	0.003	93144361	100.0	110.0	
2	5.330	5.327	0.003	64083958	100.0	106.3	
						RPD = 3.48	
10 Methoxychlor							
1	5.259	5.255	0.004	120223424	100.0	104.4	
2	5.164	5.160	0.004	38943078	100.0	108.1	
						RPD = 3.52	
34 Mirex							
1	5.329	5.325	0.004	153597549	100.0	109.9	
2	5.262	5.258	0.004	50364501	100.0	103.3	
						RPD = 6.19	
13 Endrin ketone							
1	5.508	5.504	0.004	179353100	100.0	107.0	
2	5.509	5.505	0.004	70995946	100.0	102.9	
						RPD = 3.89	
$ 24 DCB Decachlorobiphenyl							
1	6.320	6.317	0.003	149565097	100.0	105.8	
2	6.317	6.314	0.003	61595121	100.0	100.5	
						RPD = 5.10	

Reagents:

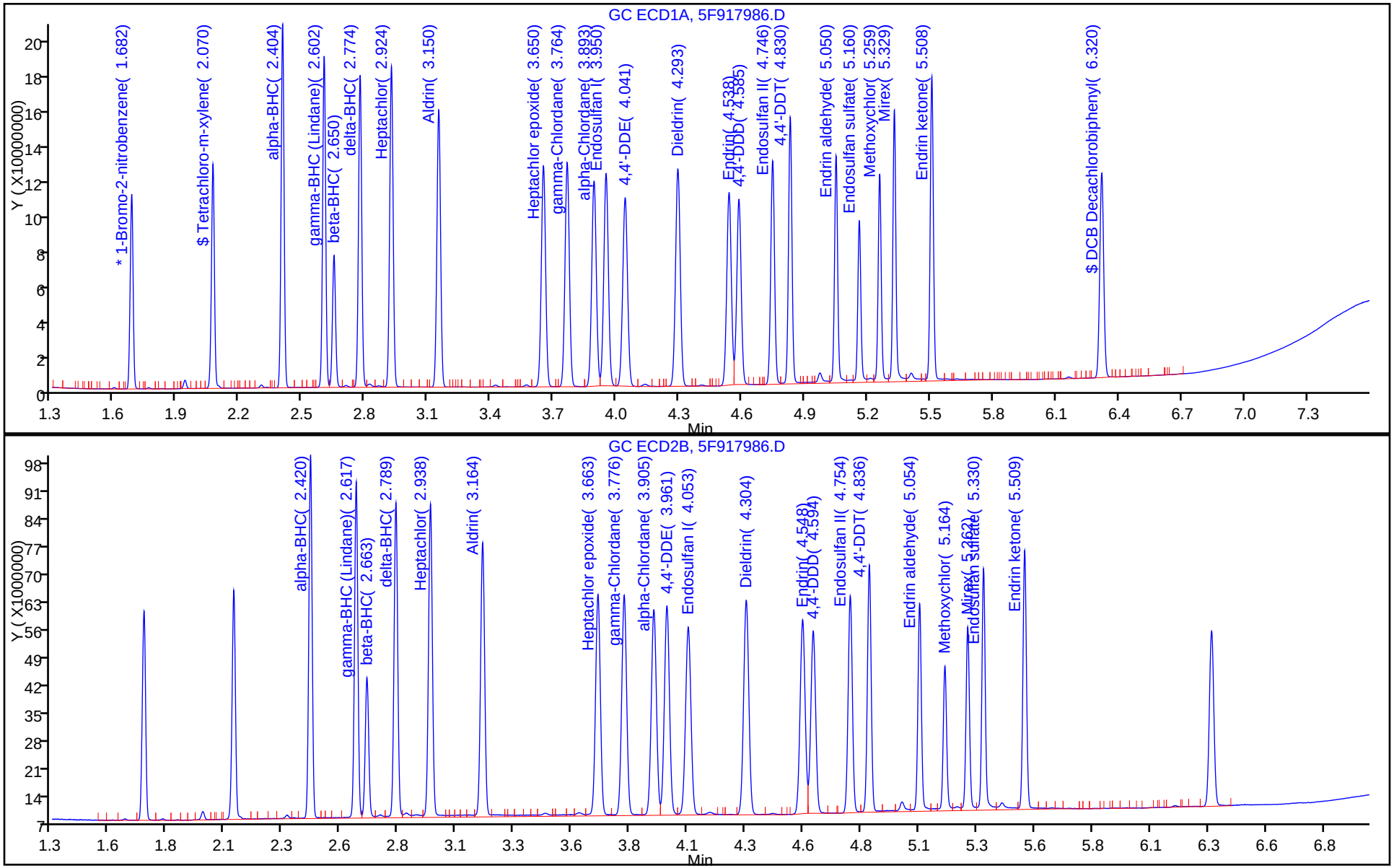
SGPTICV_00035	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 09-Feb-2018 12:04:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917986.D

Injection Date:	08-Feb-2018 16:25:12	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	ICV PEST			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.743	1.797		103	100	3.1	20.0
gamma-BHC (Lindane)	Ave	1.636	1.627		99.5	100	-0.5	20.0
beta-BHC	Ave	0.6887	0.6692		97.2	100	-2.8	20.0
delta-BHC	Ave	1.636	1.609		98.3	100	-1.7	20.0
Heptachlor	Ave	1.811	1.662		91.8	100	-8.2	20.0
Aldrin	Ave	1.644	1.571		95.6	100	-4.4	20.0
Heptachlor epoxide	Ave	1.552	1.410		90.8	100	-9.2	20.0
trans-Chlordane	Ave	1.608	1.460		90.7	100	-9.3	20.0
cis-Chlordane	Ave	1.556	1.396		89.7	100	-10.3	20.0
Endosulfan I	Ave	1.592	1.457		91.6	100	-8.4	20.0
4,4'-DDE	Ave	1.493	1.359		91.0	100	-9.0	20.0
Dieldrin	Ave	1.692	1.544		91.3	100	-8.7	20.0
Endrin	Ave	1.402	1.378		98.3	100	-1.7	20.0
4,4'-DDD	Ave	1.301	1.287		98.9	100	-1.1	20.0
Endosulfan II	Ave	1.410	1.250		88.7	100	-11.3	20.0
4,4'-DDT	Ave	1.490	1.292		86.7	100	-13.3	20.0
Endrin aldehyde	Ave	1.166	1.033		88.6	100	-11.4	20.0
Endosulfan sulfate	Ave	0.8050	0.6839		84.9	100	-15.1	20.0
Methoxychlor	Ave	1.096	0.9376		85.6	100	-14.4	20.0
Mirex	Ave	1.329	1.202		90.4	100	-9.6	20.0
Endrin ketone	Ave	1.594	1.493		93.6	100	-6.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919144.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.37	2.36	2.38
gamma-BHC (Lindane)	2.56	2.55	2.57
beta-BHC	2.61	2.60	2.62
delta-BHC	2.73	2.72	2.74
Heptachlor	2.87	2.86	2.88
Aldrin	3.10	3.09	3.11
Heptachlor epoxide	3.59	3.58	3.60
trans-Chlordane	3.70	3.69	3.71
cis-Chlordane	3.82	3.81	3.83
Endosulfan I	3.88	3.87	3.89
4,4'-DDE	3.97	3.96	3.98
Dieldrin	4.22	4.21	4.23
Endrin	4.46	4.45	4.47
4,4'-DDD	4.51	4.50	4.52
Endosulfan II	4.68	4.67	4.69
4,4'-DDT	4.77	4.76	4.78
Endrin aldehyde	5.00	4.99	5.01
Endosulfan sulfate	5.11	5.10	5.12
Methoxychlor	5.21	5.20	5.22
Mirex	5.28	5.27	5.29
Endrin ketone	5.46	5.45	5.47

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:23:48 ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:44 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	155622150	100.0	100.0	
2	1.674	1.674	0.000	75663969	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.039	2.039	0.000	171353130	100.0	104.0	
2	2.054	2.054	0.000	77711222	100.0	99.1	
						RPD = 4.78	
15 alpha-BHC							
1	2.366	2.366	0.000	279682159	100.0	103.1	
2	2.379	2.379	0.000	123896169	100.0	101.2	
						RPD = 1.90	
2 gamma-BHC (Lindane)							
1	2.562	2.562	0.000	253242617	100.0	99.5	
2	2.574	2.574	0.000	115182864	100.0	99.6	
						RPD = 0.07	
6 beta-BHC							M
1	2.608	2.608	0.000	104140335	100.0	97.2	
2	2.620	2.620	0.000	49080782	100.0	95.6	M
						RPD = 1.59	
32 delta-BHC							
1	2.729	2.729	0.000	250334309	100.0	98.3	
2	2.741	2.741	0.000	113840300	100.0	95.1	
						RPD = 3.30	
18 Heptachlor							
1	2.874	2.874	0.000	258586710	100.0	91.8	
2	2.887	2.887	0.000	112711682	100.0	88.3	
						RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.096	3.096	0.000	244507857	100.0	95.6	
2	3.108	3.108	0.000	106796395	100.0	90.2	
						RPD = 5.75	
12 Heptachlor epoxide							
1	3.585	3.585	0.000	219387055	100.0	90.8	
2	3.594	3.594	0.000	99699162	100.0	88.0	
						RPD = 3.13	
9 trans-Chlordane							
1	3.696	3.696	0.000	227134722	100.0	90.7	
2	3.704	3.704	0.000	101834592	100.0	89.5	
						RPD = 1.35	
23 cis-Chlordane							M
1	3.822	3.822	0.000	217173299	100.0	89.7	
2	3.829	3.829	0.000	99117062	100.0	88.7	M
						RPD = 1.08	
7 Endosulfan I							M
1	3.878	3.878	0.000	226799124	100.0	91.6	
2	3.973	3.973	0.000	96600026	100.0	90.9	M
						RPD = 0.77	
25 4,4'-DDE							M
1	3.965	3.965	0.000	211454427	100.0	91.0	
2	3.884	3.884	0.000	101329958	100.0	89.5	M
						RPD = 1.66	
30 Dieldrin							
1	4.218	4.218	0.000	240352404	100.0	91.3	
2	4.224	4.224	0.000	107083224	100.0	92.2	
						RPD = 1.03	
20 Endrin							M
1	4.464	4.464	0.000	214490995	100.0	98.3	
2	4.469	4.469	0.000	97762261	100.0	94.2	M
						RPD = 4.30	
16 4,4'-DDD							M
1	4.513	4.513	0.000	200251215	100.0	98.9	
2	4.516	4.516	0.000	89463448	100.0	97.7	M
						RPD = 1.31	
11 Endosulfan II							M
1	4.684	4.684	0.000	194547128	100.0	88.7	
2	4.687	4.687	0.000	87572862	100.0	89.7	M
						RPD = 1.20	
21 4,4'-DDT							M
1	4.774	4.774	0.000	201040378	100.0	86.7	
2	4.777	4.777	0.000	85801763	100.0	86.0	M
						RPD = 0.81	
5 Endrin aldehyde							M
1	5.000	5.000	0.000	160813277	100.0	88.6	
2	5.001	5.001	0.000	66648255	100.0	88.0	M
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.114	5.114	0.000	106421717	100.0	84.9	
2	5.279	5.279	0.000	77367202	100.0	91.3	
						RPD = 7.16	
10 Methoxychlor							M
1	5.210	5.210	0.000	145916344	100.0	85.6	
2	5.114	5.114	0.000	42502692	100.0	83.9	M
						RPD = 1.98	
34 Mirex							
1	5.280	5.280	0.000	187010061	100.0	90.4	
2	5.213	5.213	0.000	57589567	100.0	84.0	
						RPD = 7.34	
13 Endrin ketone							
1	5.455	5.455	0.000	232330548	100.0	93.6	
2	5.454	5.454	0.000	88555543	100.0	91.3	
						RPD = 2.54	
$ 24 DCB Decachlorobiphenyl							
1	6.260	6.260	0.000	188287824	100.0	92.9	
2	6.254	6.254	0.000	75611582	100.0	90.6	
						RPD = 2.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

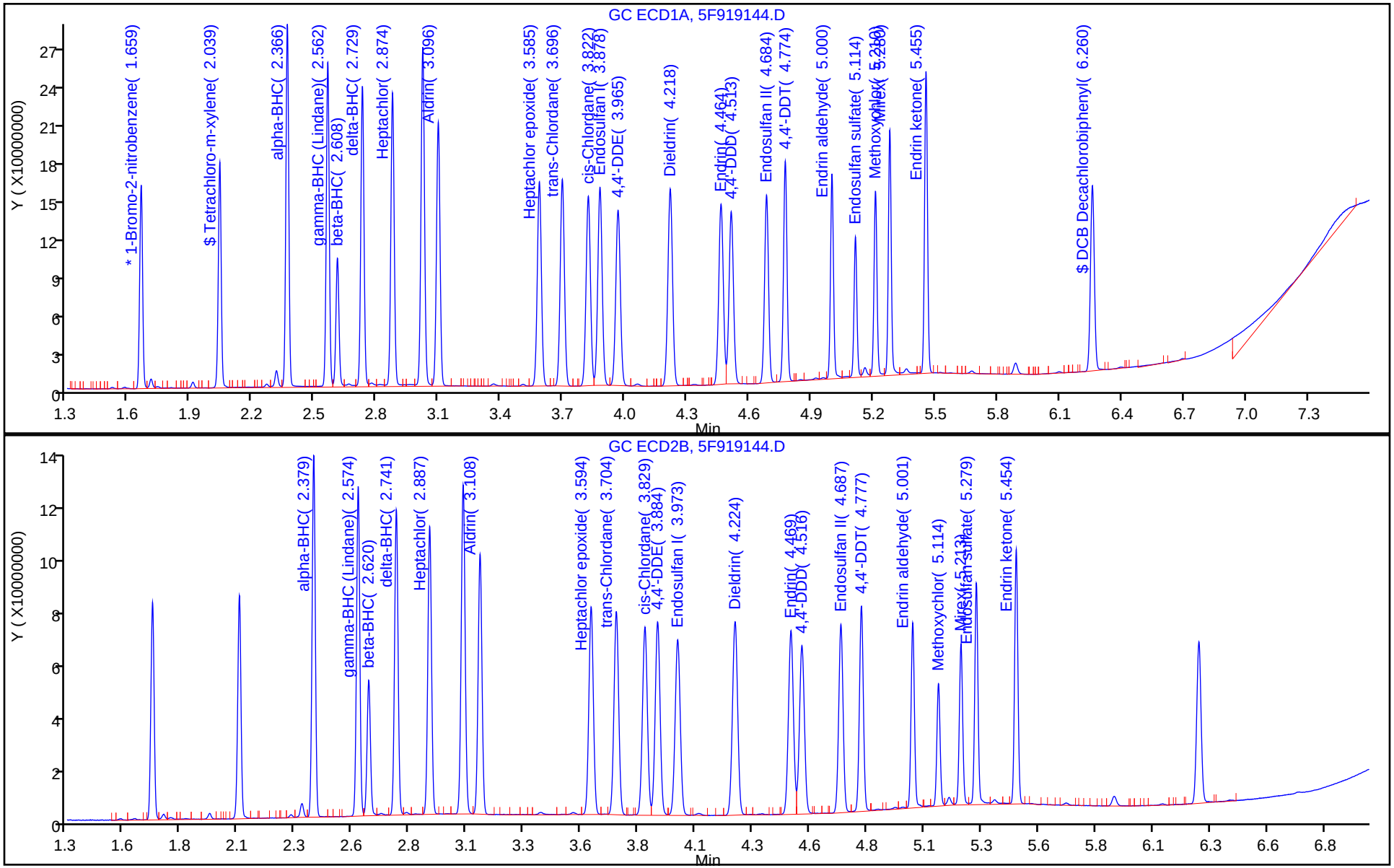
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D

Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.059	1.101		104	100	4.0	20.0
DCB Decachlorobiphenyl	Ave	1.302	1.210		92.9	100	-7.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919144.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.04	2.03	2.05
DCB Decachlorobiphenyl	6.26	6.25	6.27

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:23:48 ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:44 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	155622150	100.0	100.0	
2	1.674	1.674	0.000	75663969	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.039	2.039	0.000	171353130	100.0	104.0	
2	2.054	2.054	0.000	77711222	100.0	99.1	
						RPD = 4.78	
15 alpha-BHC							
1	2.366	2.366	0.000	279682159	100.0	103.1	
2	2.379	2.379	0.000	123896169	100.0	101.2	
						RPD = 1.90	
2 gamma-BHC (Lindane)							
1	2.562	2.562	0.000	253242617	100.0	99.5	
2	2.574	2.574	0.000	115182864	100.0	99.6	
						RPD = 0.07	
6 beta-BHC							M
1	2.608	2.608	0.000	104140335	100.0	97.2	
2	2.620	2.620	0.000	49080782	100.0	95.6	M
						RPD = 1.59	
32 delta-BHC							
1	2.729	2.729	0.000	250334309	100.0	98.3	
2	2.741	2.741	0.000	113840300	100.0	95.1	
						RPD = 3.30	
18 Heptachlor							
1	2.874	2.874	0.000	258586710	100.0	91.8	
2	2.887	2.887	0.000	112711682	100.0	88.3	
						RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.096	3.096	0.000	244507857	100.0	95.6	
2	3.108	3.108	0.000	106796395	100.0	90.2	
						RPD = 5.75	
12 Heptachlor epoxide							
1	3.585	3.585	0.000	219387055	100.0	90.8	
2	3.594	3.594	0.000	99699162	100.0	88.0	
						RPD = 3.13	
9 trans-Chlordane							
1	3.696	3.696	0.000	227134722	100.0	90.7	
2	3.704	3.704	0.000	101834592	100.0	89.5	
						RPD = 1.35	
23 cis-Chlordane							M
1	3.822	3.822	0.000	217173299	100.0	89.7	
2	3.829	3.829	0.000	99117062	100.0	88.7	M
						RPD = 1.08	
7 Endosulfan I							M
1	3.878	3.878	0.000	226799124	100.0	91.6	
2	3.973	3.973	0.000	96600026	100.0	90.9	M
						RPD = 0.77	
25 4,4'-DDE							M
1	3.965	3.965	0.000	211454427	100.0	91.0	
2	3.884	3.884	0.000	101329958	100.0	89.5	M
						RPD = 1.66	
30 Dieldrin							
1	4.218	4.218	0.000	240352404	100.0	91.3	
2	4.224	4.224	0.000	107083224	100.0	92.2	
						RPD = 1.03	
20 Endrin							M
1	4.464	4.464	0.000	214490995	100.0	98.3	
2	4.469	4.469	0.000	97762261	100.0	94.2	M
						RPD = 4.30	
16 4,4'-DDD							M
1	4.513	4.513	0.000	200251215	100.0	98.9	
2	4.516	4.516	0.000	89463448	100.0	97.7	M
						RPD = 1.31	
11 Endosulfan II							M
1	4.684	4.684	0.000	194547128	100.0	88.7	
2	4.687	4.687	0.000	87572862	100.0	89.7	M
						RPD = 1.20	
21 4,4'-DDT							M
1	4.774	4.774	0.000	201040378	100.0	86.7	
2	4.777	4.777	0.000	85801763	100.0	86.0	M
						RPD = 0.81	
5 Endrin aldehyde							M
1	5.000	5.000	0.000	160813277	100.0	88.6	
2	5.001	5.001	0.000	66648255	100.0	88.0	M
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.114	5.114	0.000	106421717	100.0	84.9	
2	5.279	5.279	0.000	77367202	100.0	91.3	
						RPD = 7.16	
10 Methoxychlor							M
1	5.210	5.210	0.000	145916344	100.0	85.6	
2	5.114	5.114	0.000	42502692	100.0	83.9	M
						RPD = 1.98	
34 Mirex							
1	5.280	5.280	0.000	187010061	100.0	90.4	
2	5.213	5.213	0.000	57589567	100.0	84.0	
						RPD = 7.34	
13 Endrin ketone							
1	5.455	5.455	0.000	232330548	100.0	93.6	
2	5.454	5.454	0.000	88555543	100.0	91.3	
						RPD = 2.54	
$ 24 DCB Decachlorobiphenyl							
1	6.260	6.260	0.000	188287824	100.0	92.9	
2	6.254	6.254	0.000	75611582	100.0	90.6	
						RPD = 2.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

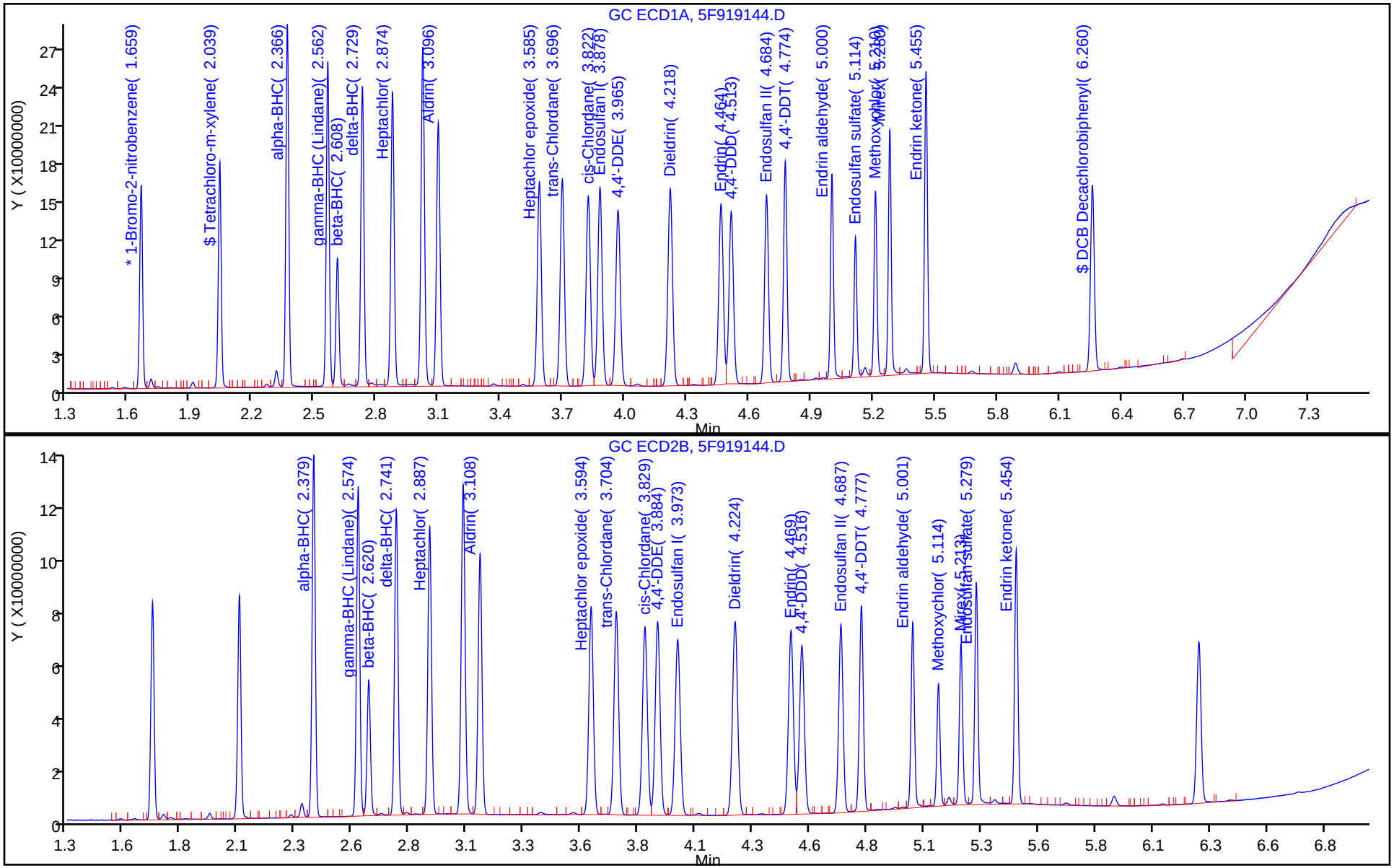
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D

Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.618	1.637		101	100	1.2	20.0
gamma-BHC (Lindane)	Ave	1.529	1.522		99.6	100	-0.4	20.0
beta-BHC	Ave	0.6783	0.6487		95.6	100	-4.4	20.0
delta-BHC	Ave	1.582	1.505		95.1	100	-4.9	20.0
Heptachlor	Ave	1.687	1.490		88.3	100	-11.7	20.0
Aldrin	Ave	1.564	1.411		90.2	100	-9.8	20.0
Heptachlor epoxide	Ave	1.497	1.318		88.0	100	-12.0	20.0
trans-Chlordane	Ave	1.503	1.346		89.5	100	-10.5	20.0
cis-Chlordane	Ave	1.477	1.310		88.7	100	-11.3	20.0
4,4'-DDE	Ave	1.496	1.339		89.5	100	-10.5	20.0
Endosulfan I	Ave	1.405	1.277		90.9	100	-9.1	20.0
Dieldrin	Ave	1.535	1.415		92.2	100	-7.8	20.0
Endrin	Ave	1.372	1.292		94.2	100	-5.8	20.0
4,4'-DDD	Ave	1.211	1.182		97.7	100	-2.3	20.0
Endosulfan II	Ave	1.290	1.157		89.7	100	-10.3	20.0
4,4'-DDT	Ave	1.318	1.134		86.0	100	-14.0	20.0
Endrin aldehyde	Ave	1.001	0.8809		88.0	100	-12.0	20.0
Methoxychlor	Ave	0.6694	0.5617		83.9	100	-16.1	20.0
Mirex	Ave	0.9060	0.7611		84.0	100	-16.0	20.0
Endosulfan sulfate	Ave	1.121	1.023		91.3	100	-8.7	20.0
Endrin ketone	Ave	1.282	1.170		91.3	100	-8.7	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 15:07

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 15:59

Lab File ID: 5F919144.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.38	2.37	2.39
gamma-BHC (Lindane)	2.57	2.56	2.58
beta-BHC	2.62	2.61	2.63
delta-BHC	2.74	2.73	2.75
Heptachlor	2.89	2.88	2.90
Aldrin	3.11	3.10	3.12
Heptachlor epoxide	3.59	3.58	3.60
trans-Chlordane	3.70	3.69	3.71
cis-Chlordane	3.83	3.82	3.84
4,4'-DDE	3.88	3.87	3.89
Endosulfan I	3.97	3.96	3.98
Dieldrin	4.22	4.21	4.23
Endrin	4.47	4.46	4.48
4,4'-DDD	4.52	4.51	4.53
Endosulfan II	4.69	4.68	4.70
4,4'-DDT	4.78	4.77	4.79
Endrin aldehyde	5.00	4.99	5.01
Methoxychlor	5.11	5.10	5.12
Mirex	5.21	5.20	5.22
Endosulfan sulfate	5.28	5.27	5.29
Endrin ketone	5.45	5.44	5.46

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:23:48 ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:44 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	155622150	100.0	100.0	
2	1.674	1.674	0.000	75663969	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.039	2.039	0.000	171353130	100.0	104.0	
2	2.054	2.054	0.000	77711222	100.0	99.1	
						RPD = 4.78	
15 alpha-BHC							
1	2.366	2.366	0.000	279682159	100.0	103.1	
2	2.379	2.379	0.000	123896169	100.0	101.2	
						RPD = 1.90	
2 gamma-BHC (Lindane)							
1	2.562	2.562	0.000	253242617	100.0	99.5	
2	2.574	2.574	0.000	115182864	100.0	99.6	
						RPD = 0.07	
6 beta-BHC							M
1	2.608	2.608	0.000	104140335	100.0	97.2	
2	2.620	2.620	0.000	49080782	100.0	95.6	M
						RPD = 1.59	
32 delta-BHC							
1	2.729	2.729	0.000	250334309	100.0	98.3	
2	2.741	2.741	0.000	113840300	100.0	95.1	
						RPD = 3.30	
18 Heptachlor							
1	2.874	2.874	0.000	258586710	100.0	91.8	
2	2.887	2.887	0.000	112711682	100.0	88.3	
						RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.096	3.096	0.000	244507857	100.0	95.6	
2	3.108	3.108	0.000	106796395	100.0	90.2	
						RPD = 5.75	
12 Heptachlor epoxide							
1	3.585	3.585	0.000	219387055	100.0	90.8	
2	3.594	3.594	0.000	99699162	100.0	88.0	
						RPD = 3.13	
9 trans-Chlordane							
1	3.696	3.696	0.000	227134722	100.0	90.7	
2	3.704	3.704	0.000	101834592	100.0	89.5	
						RPD = 1.35	
23 cis-Chlordane							M
1	3.822	3.822	0.000	217173299	100.0	89.7	
2	3.829	3.829	0.000	99117062	100.0	88.7	M
						RPD = 1.08	
7 Endosulfan I							M
1	3.878	3.878	0.000	226799124	100.0	91.6	
2	3.973	3.973	0.000	96600026	100.0	90.9	M
						RPD = 0.77	
25 4,4'-DDE							M
1	3.965	3.965	0.000	211454427	100.0	91.0	
2	3.884	3.884	0.000	101329958	100.0	89.5	M
						RPD = 1.66	
30 Dieldrin							
1	4.218	4.218	0.000	240352404	100.0	91.3	
2	4.224	4.224	0.000	107083224	100.0	92.2	
						RPD = 1.03	
20 Endrin							M
1	4.464	4.464	0.000	214490995	100.0	98.3	
2	4.469	4.469	0.000	97762261	100.0	94.2	M
						RPD = 4.30	
16 4,4'-DDD							M
1	4.513	4.513	0.000	200251215	100.0	98.9	
2	4.516	4.516	0.000	89463448	100.0	97.7	M
						RPD = 1.31	
11 Endosulfan II							M
1	4.684	4.684	0.000	194547128	100.0	88.7	
2	4.687	4.687	0.000	87572862	100.0	89.7	M
						RPD = 1.20	
21 4,4'-DDT							M
1	4.774	4.774	0.000	201040378	100.0	86.7	
2	4.777	4.777	0.000	85801763	100.0	86.0	M
						RPD = 0.81	
5 Endrin aldehyde							M
1	5.000	5.000	0.000	160813277	100.0	88.6	
2	5.001	5.001	0.000	66648255	100.0	88.0	M
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.114	5.114	0.000	106421717	100.0	84.9	
2	5.279	5.279	0.000	77367202	100.0	91.3	
						RPD = 7.16	
10 Methoxychlor							M
1	5.210	5.210	0.000	145916344	100.0	85.6	
2	5.114	5.114	0.000	42502692	100.0	83.9	M
						RPD = 1.98	
34 Mirex							
1	5.280	5.280	0.000	187010061	100.0	90.4	
2	5.213	5.213	0.000	57589567	100.0	84.0	
						RPD = 7.34	
13 Endrin ketone							
1	5.455	5.455	0.000	232330548	100.0	93.6	
2	5.454	5.454	0.000	88555543	100.0	91.3	
						RPD = 2.54	
$ 24 DCB Decachlorobiphenyl							
1	6.260	6.260	0.000	188287824	100.0	92.9	
2	6.254	6.254	0.000	75611582	100.0	90.6	
						RPD = 2.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

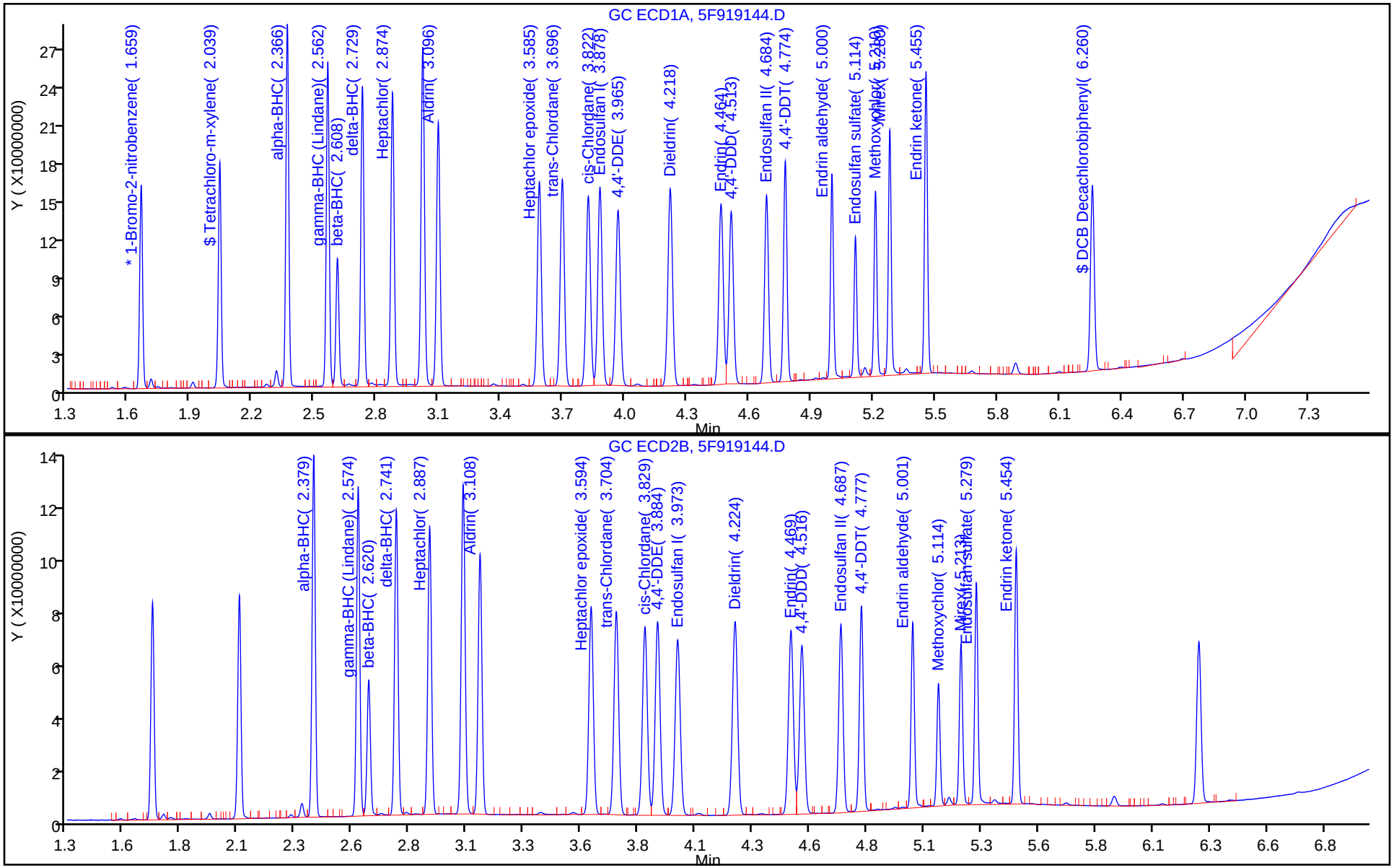
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D

Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

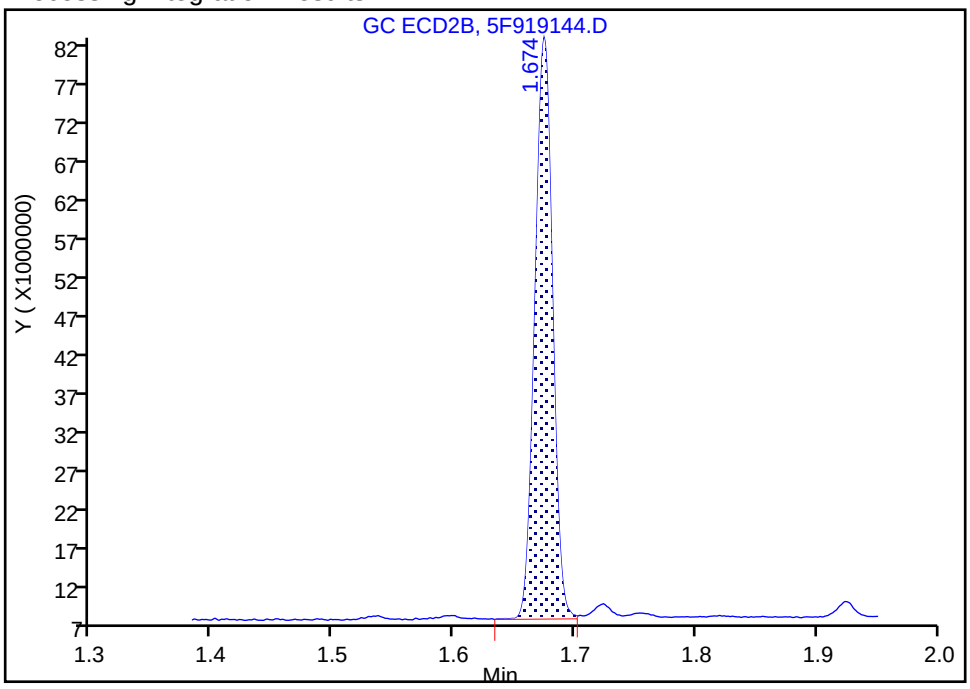
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Injection Date: 21-Mar-2018 07:23:48 Instrument ID: CPESTGC5
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

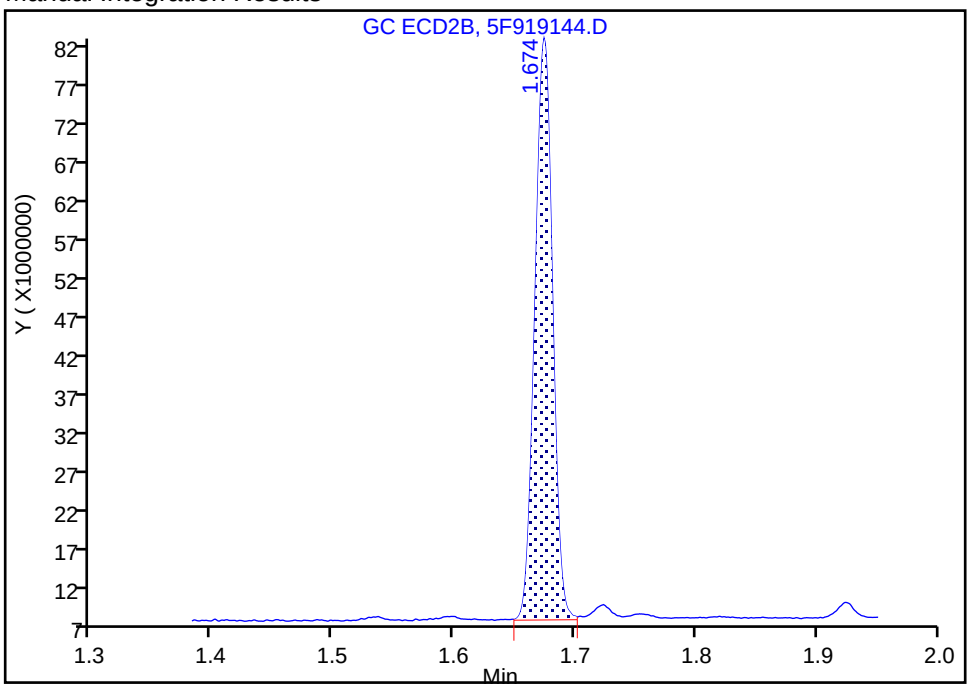
Processing Integration Results

RT: 1.67
Area: 75748266
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.67
Area: 75663969
Amount: 100.0000
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:20
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

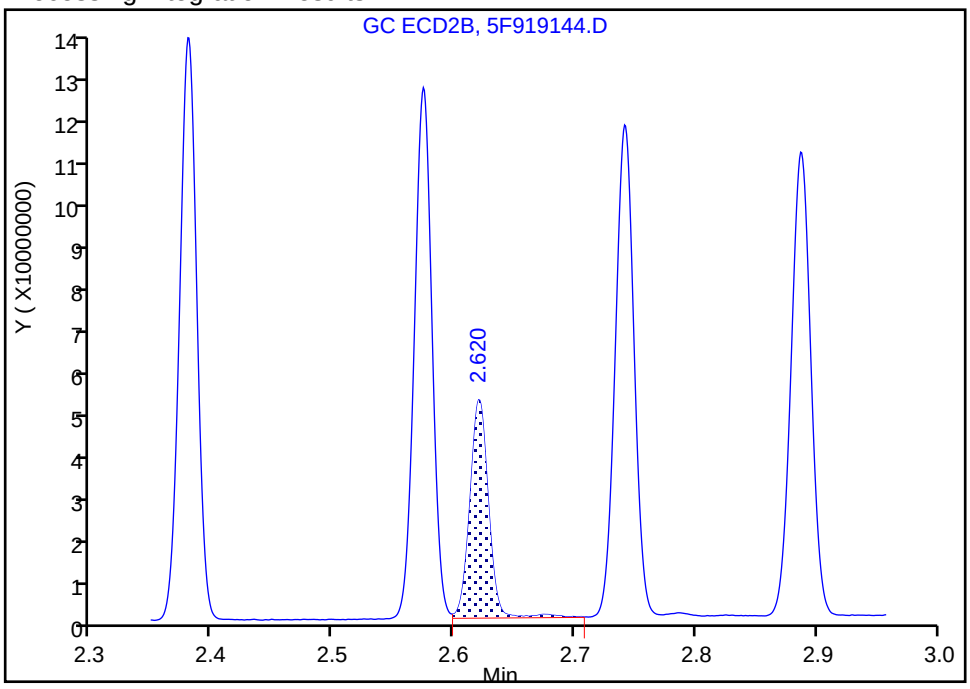
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

6 beta-BHC, CAS: 319-85-7

Signal: 2

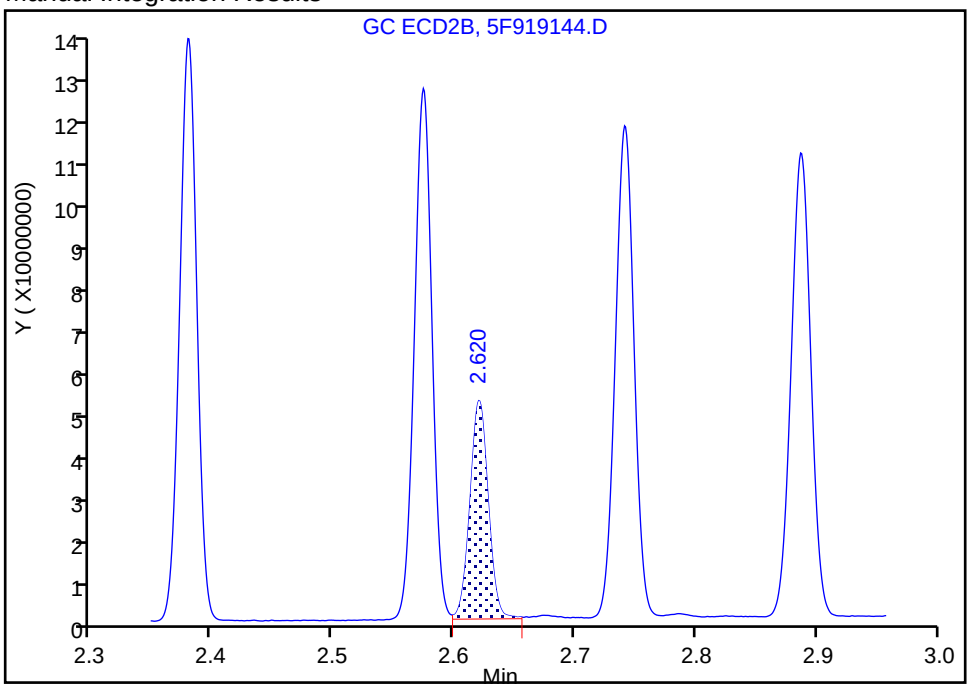
Processing Integration Results

RT: 2.62
Area: 50212264
Amount: 97.836544
Amount Units: ug/l



Manual Integration Results

RT: 2.62
Area: 49080782
Amount: 95.631897
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:28
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

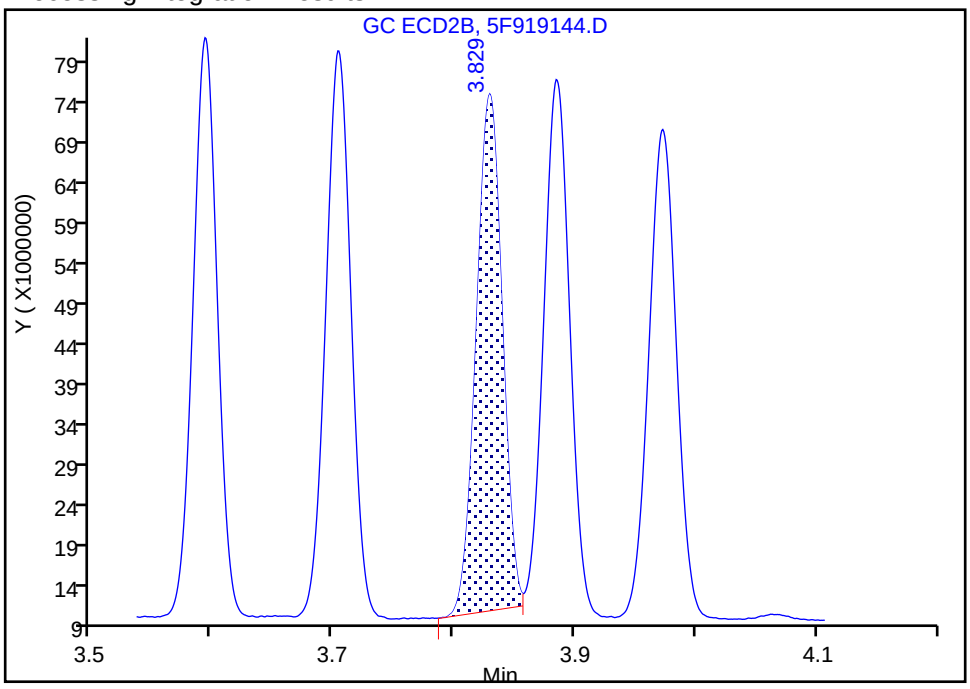
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

23 cis-Chlordane, CAS: 5103-71-9

Signal: 2

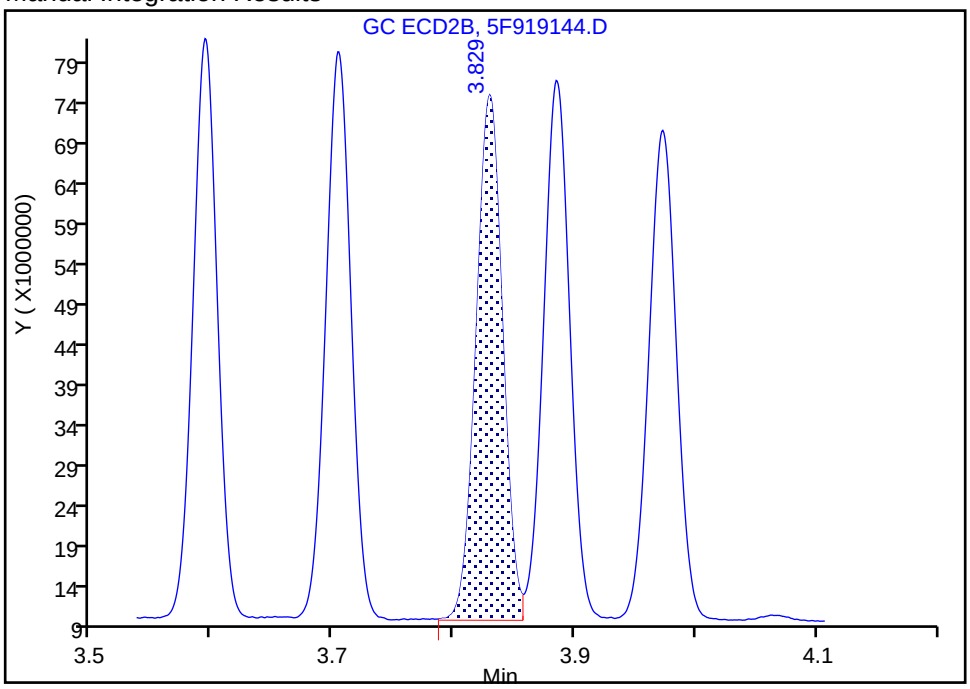
Processing Integration Results

RT: 3.83
Area: 95388004
Amount: 85.286609
Amount Units: ug/l



Manual Integration Results

RT: 3.83
Area: 99117062
Amount: 88.719499
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:00:47
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

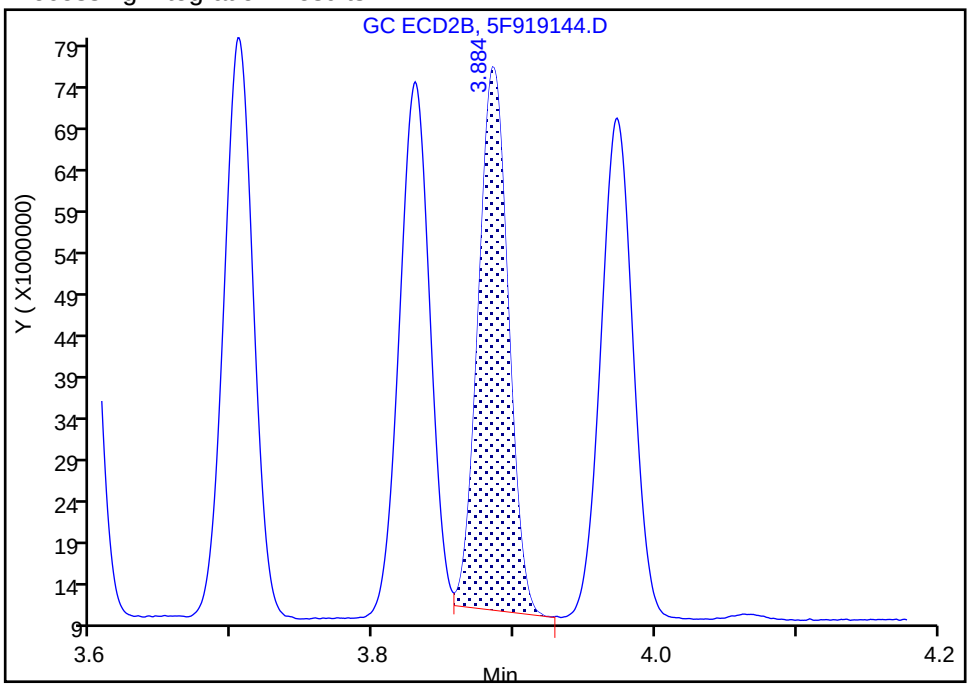
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

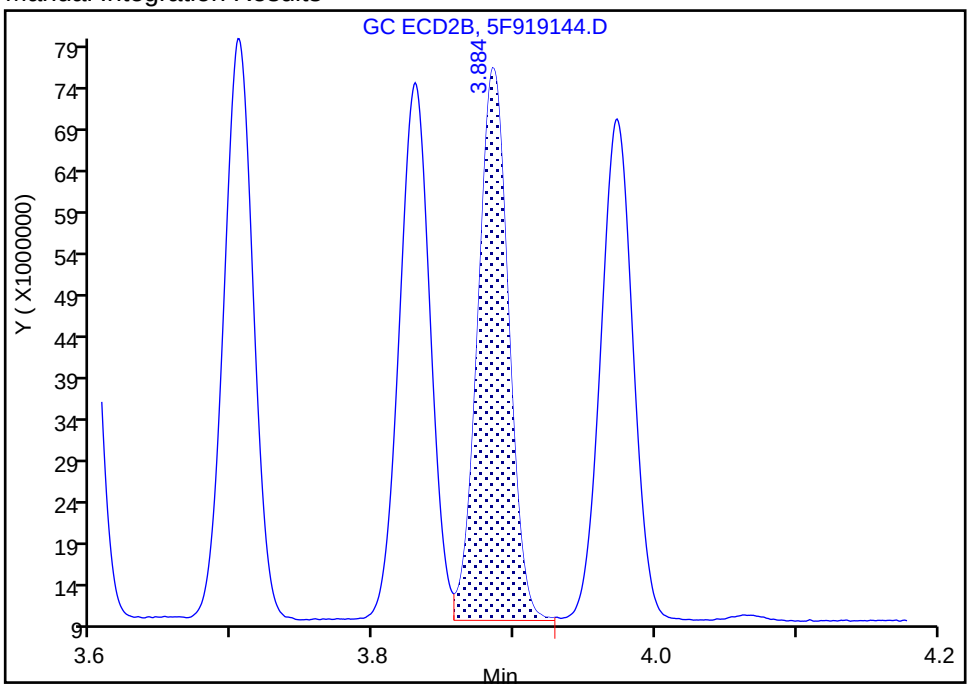
Processing Integration Results

RT: 3.88
Area: 97183287
Amount: 85.756054
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 101329958
Amount: 89.514759
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:00:47
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

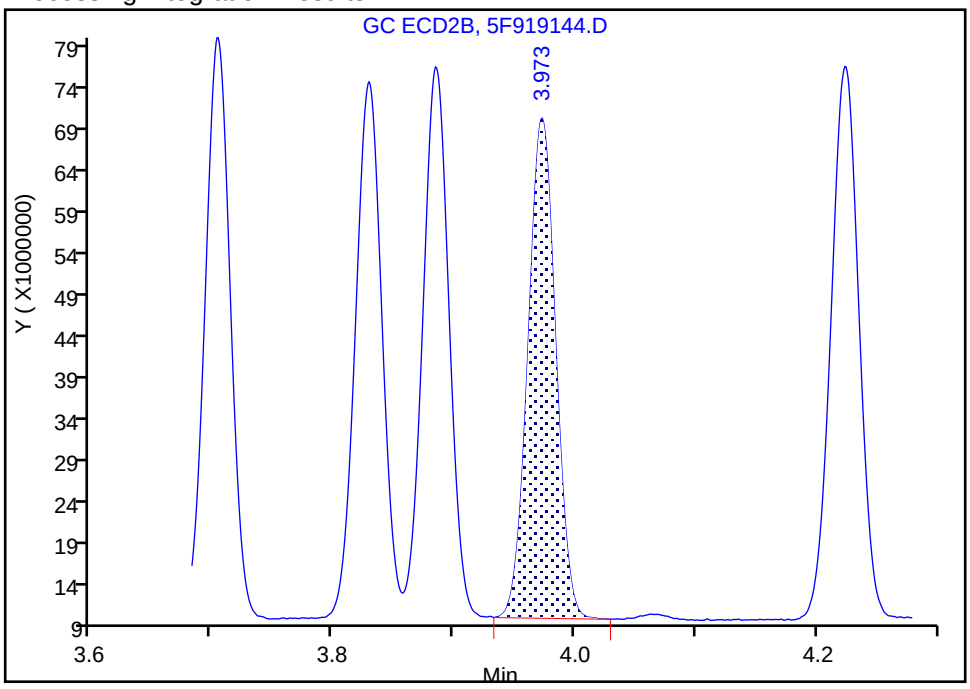
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Injection Date: 21-Mar-2018 07:23:48 Instrument ID: CPESTGC5
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

7 Endosulfan I, CAS: 959-98-8

Signal: 2

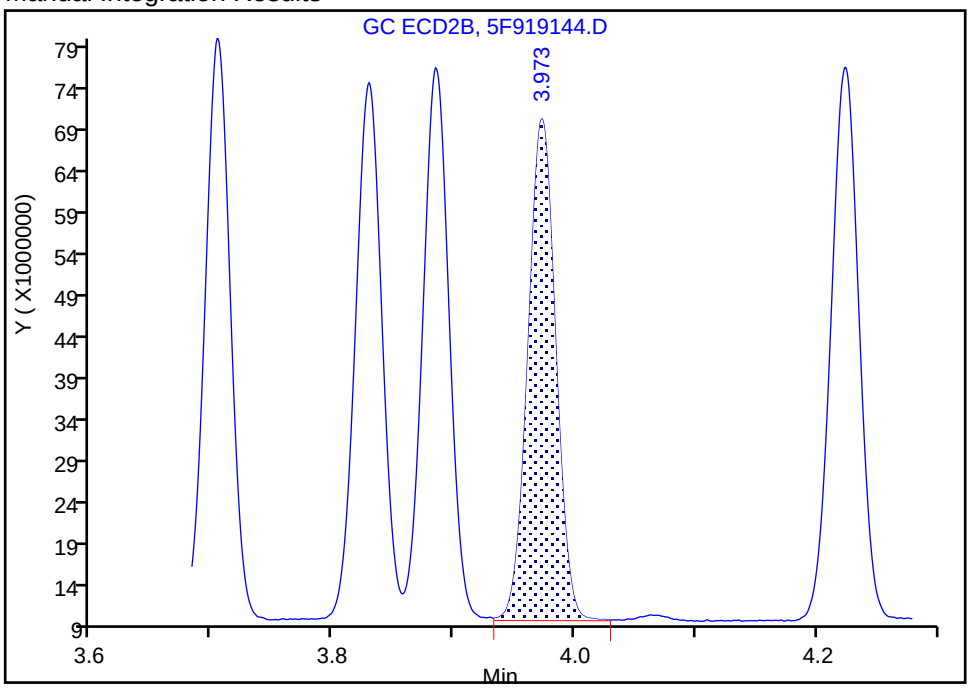
Processing Integration Results

RT: 3.97
Area: 95676468
Amount: 89.902040
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 96600026
Amount: 90.870984
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:00:47
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

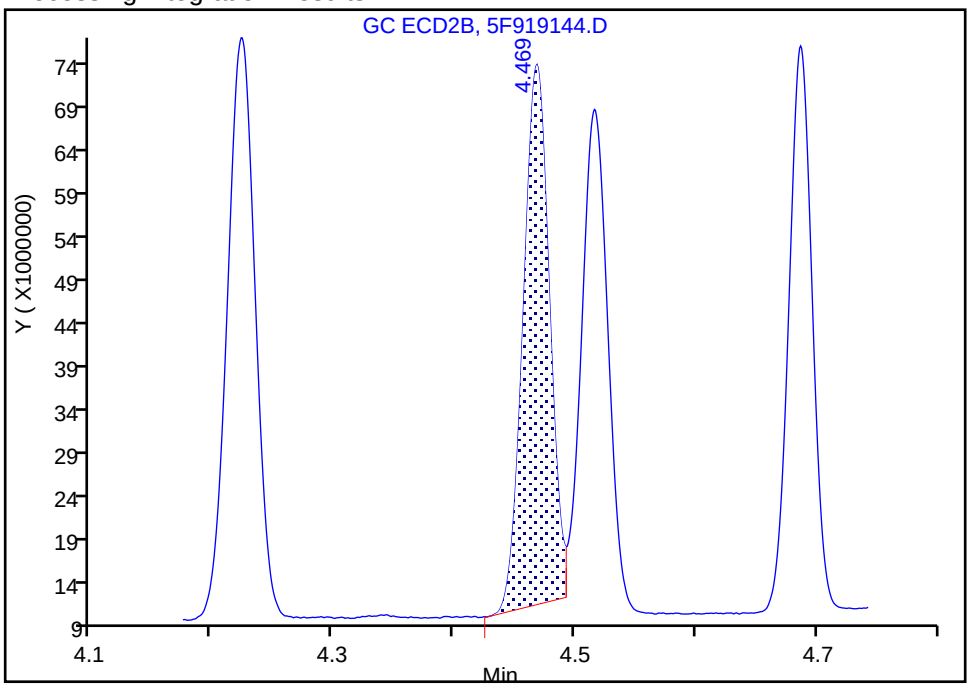
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D		
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5
Lims ID:	CCVIS		
Client ID:			
Operator ID:		ALS Bottle#:	38 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

20 Endrin, CAS: 72-20-8

Signal: 2

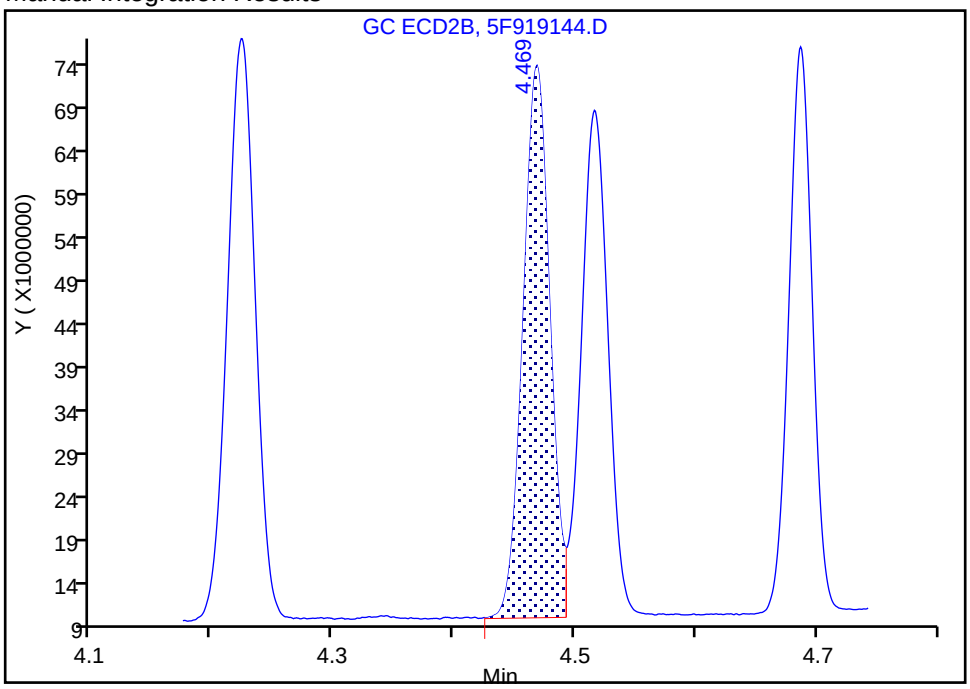
Processing Integration Results

RT: 4.47
Area: 93283279
Amount: 89.743116
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 97762261
Amount: 94.156901
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:00:49

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

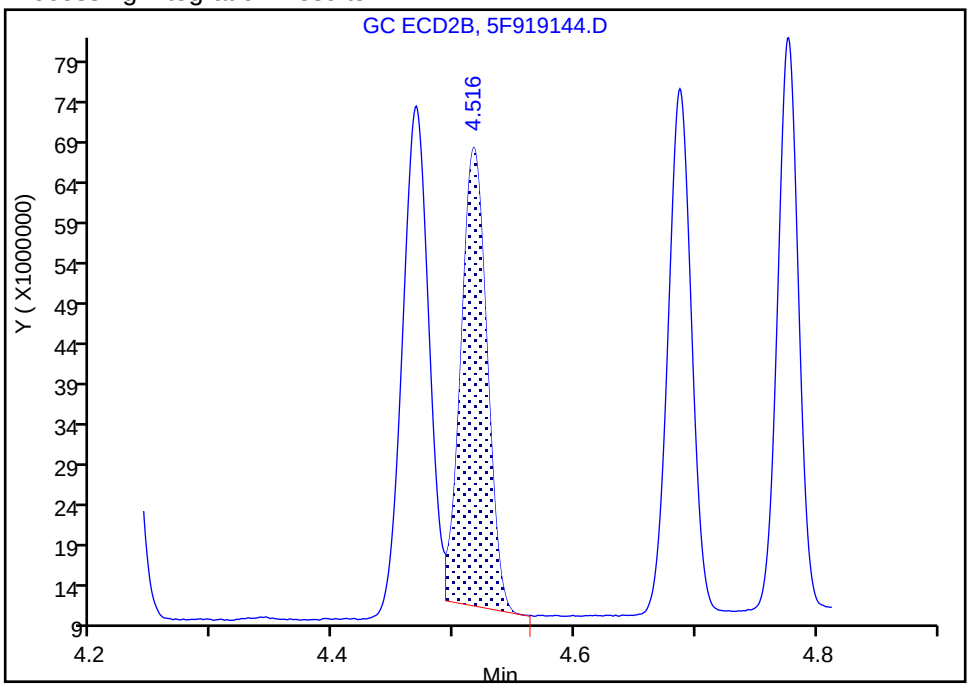
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

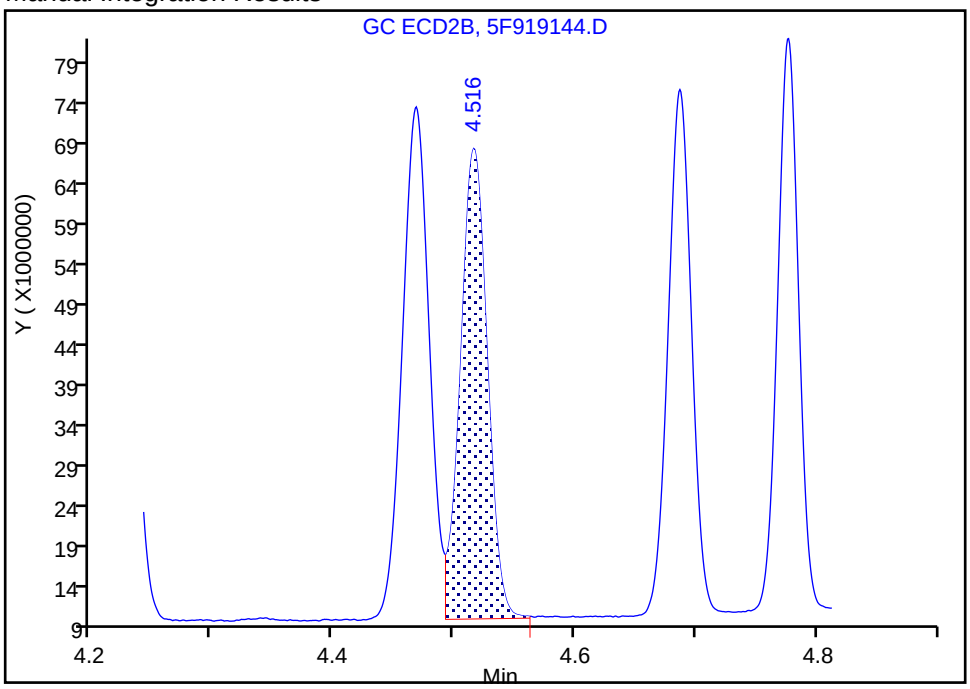
Processing Integration Results

RT: 4.52
Area: 84610046
Amount: 92.250468
Amount Units: ug/l



Manual Integration Results

RT: 4.52
Area: 89463448
Amount: 97.650811
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:00:49
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

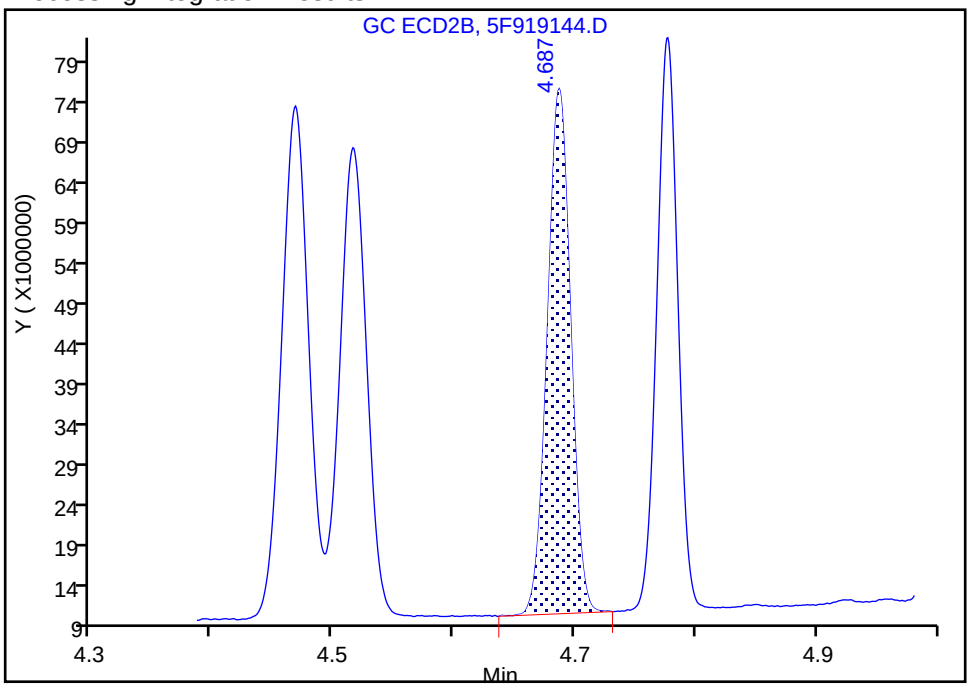
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Injection Date: 21-Mar-2018 07:23:48 Instrument ID: CPESTGC5
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

11 Endosulfan II, CAS: 33213-65-9

Signal: 2

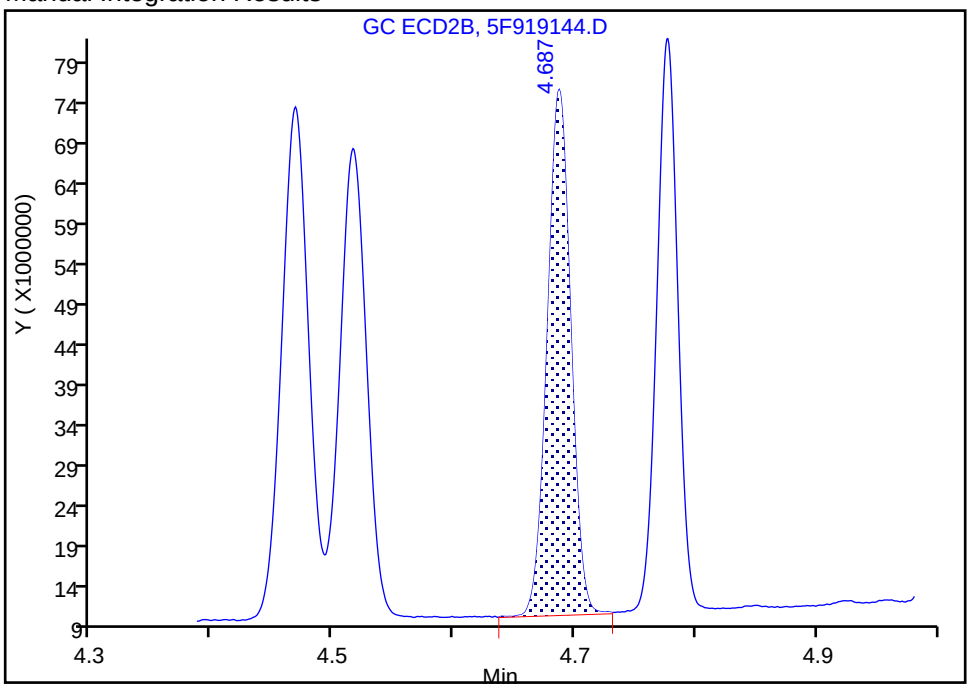
Processing Integration Results

RT: 4.69
Area: 86994204
Amount: 89.049517
Amount Units: ug/l



Manual Integration Results

RT: 4.69
Area: 87572862
Amount: 89.741716
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:09
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

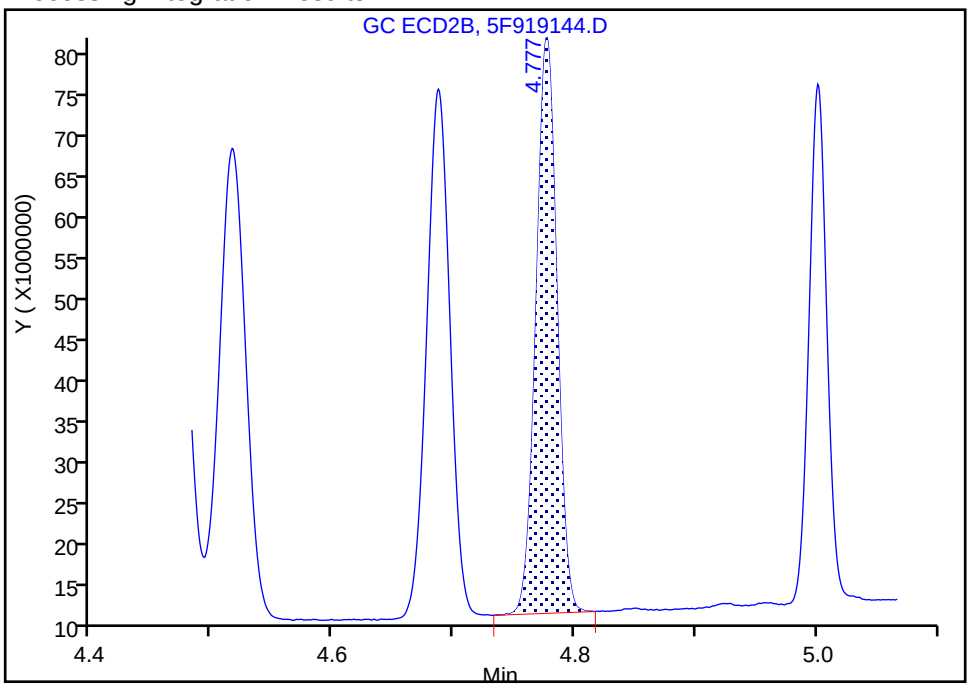
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

21 4,4'-DDT, CAS: 50-29-3

Signal: 2

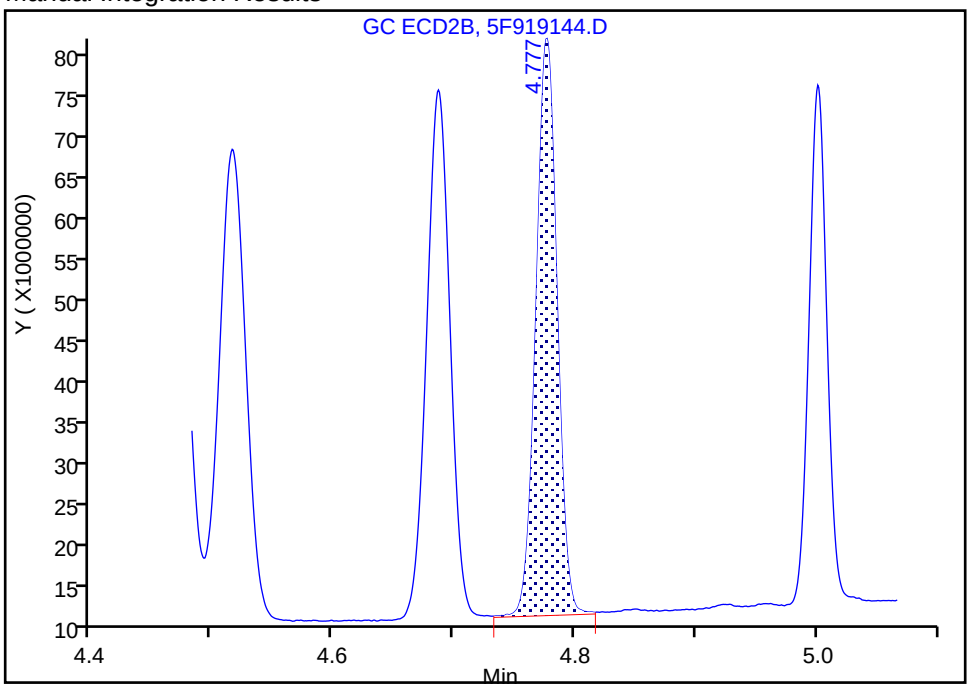
Processing Integration Results

RT: 4.78
Area: 84943687
Amount: 85.066831
Amount Units: ug/l



Manual Integration Results

RT: 4.78
Area: 85801763
Amount: 86.021881
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:09

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

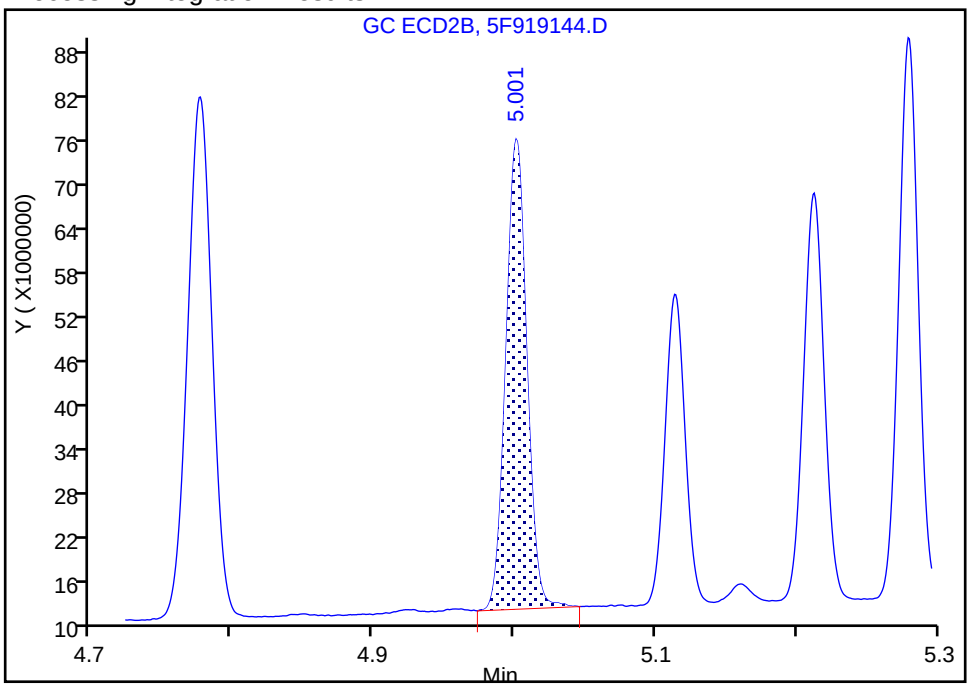
Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D				
Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	38	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 2

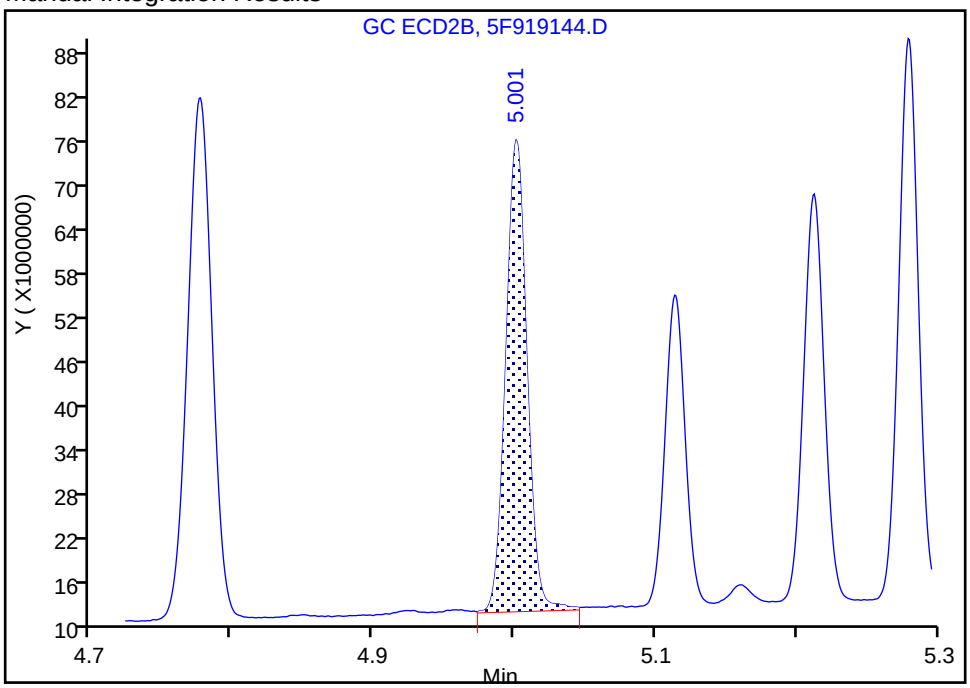
Processing Integration Results

RT: 5.00
Area: 65586840
Amount: 86.485948
Amount Units: ug/l



Manual Integration Results

RT: 5.00
Area: 66648255
Amount: 87.983494
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:11
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

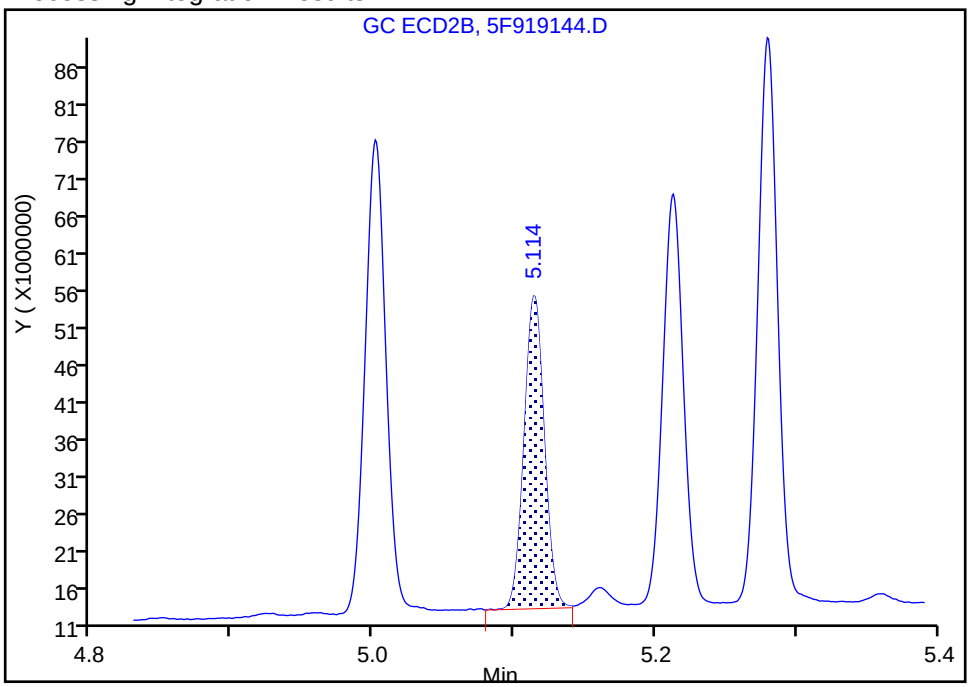
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Injection Date: 21-Mar-2018 07:23:48 Instrument ID: CPESTGC5
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

10 Methoxychlor, CAS: 72-43-5

Signal: 2

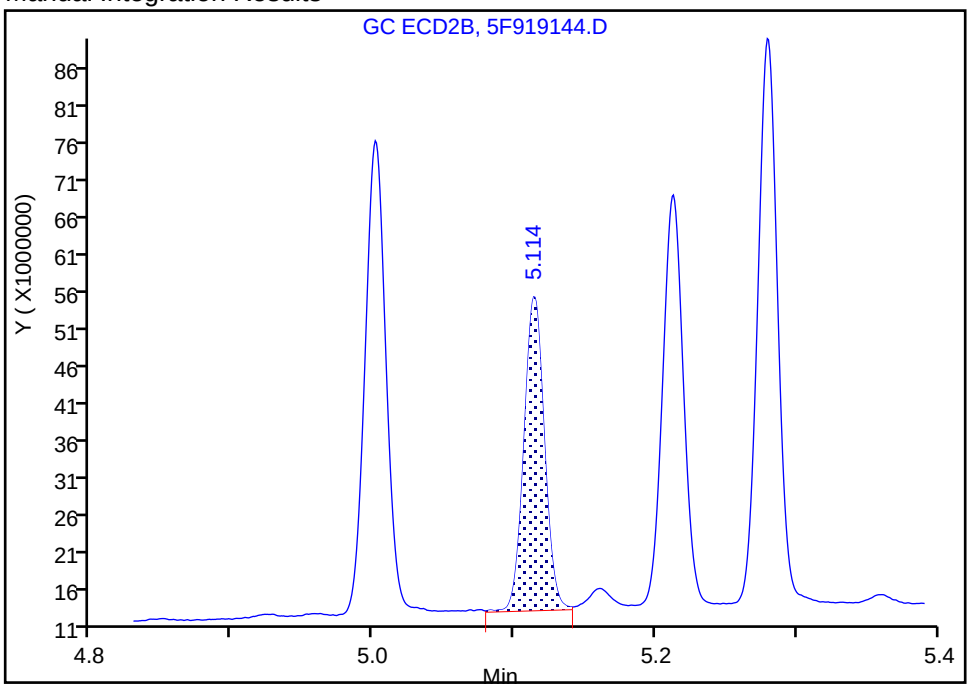
Processing Integration Results

RT: 5.11
Area: 41899938
Amount: 82.628878
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 42502692
Amount: 83.910921
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:11
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.036	1.027		99.1	100	-0.9	20.0
DCB Decachlorobiphenyl	Ave	1.102	0.999		90.6	100	-9.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505044/3 Calibration Date: 03/21/2018 07:23

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919144.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.05	2.04	2.06
DCB Decachlorobiphenyl	6.25	6.24	6.26

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:23:48 ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:44 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	155622150	100.0	100.0	
2	1.674	1.674	0.000	75663969	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.039	2.039	0.000	171353130	100.0	104.0	
2	2.054	2.054	0.000	77711222	100.0	99.1	
						RPD = 4.78	
15 alpha-BHC							
1	2.366	2.366	0.000	279682159	100.0	103.1	
2	2.379	2.379	0.000	123896169	100.0	101.2	
						RPD = 1.90	
2 gamma-BHC (Lindane)							
1	2.562	2.562	0.000	253242617	100.0	99.5	
2	2.574	2.574	0.000	115182864	100.0	99.6	
						RPD = 0.07	
6 beta-BHC							M
1	2.608	2.608	0.000	104140335	100.0	97.2	
2	2.620	2.620	0.000	49080782	100.0	95.6	M
						RPD = 1.59	
32 delta-BHC							
1	2.729	2.729	0.000	250334309	100.0	98.3	
2	2.741	2.741	0.000	113840300	100.0	95.1	
						RPD = 3.30	
18 Heptachlor							
1	2.874	2.874	0.000	258586710	100.0	91.8	
2	2.887	2.887	0.000	112711682	100.0	88.3	
						RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.096	3.096	0.000	244507857	100.0	95.6	
2	3.108	3.108	0.000	106796395	100.0	90.2	
						RPD = 5.75	
12 Heptachlor epoxide							
1	3.585	3.585	0.000	219387055	100.0	90.8	
2	3.594	3.594	0.000	99699162	100.0	88.0	
						RPD = 3.13	
9 trans-Chlordane							
1	3.696	3.696	0.000	227134722	100.0	90.7	
2	3.704	3.704	0.000	101834592	100.0	89.5	
						RPD = 1.35	
23 cis-Chlordane							M
1	3.822	3.822	0.000	217173299	100.0	89.7	
2	3.829	3.829	0.000	99117062	100.0	88.7	M
						RPD = 1.08	
7 Endosulfan I							M
1	3.878	3.878	0.000	226799124	100.0	91.6	
2	3.973	3.973	0.000	96600026	100.0	90.9	M
						RPD = 0.77	
25 4,4'-DDE							M
1	3.965	3.965	0.000	211454427	100.0	91.0	
2	3.884	3.884	0.000	101329958	100.0	89.5	M
						RPD = 1.66	
30 Dieldrin							
1	4.218	4.218	0.000	240352404	100.0	91.3	
2	4.224	4.224	0.000	107083224	100.0	92.2	
						RPD = 1.03	
20 Endrin							M
1	4.464	4.464	0.000	214490995	100.0	98.3	
2	4.469	4.469	0.000	97762261	100.0	94.2	M
						RPD = 4.30	
16 4,4'-DDD							M
1	4.513	4.513	0.000	200251215	100.0	98.9	
2	4.516	4.516	0.000	89463448	100.0	97.7	M
						RPD = 1.31	
11 Endosulfan II							M
1	4.684	4.684	0.000	194547128	100.0	88.7	
2	4.687	4.687	0.000	87572862	100.0	89.7	M
						RPD = 1.20	
21 4,4'-DDT							M
1	4.774	4.774	0.000	201040378	100.0	86.7	
2	4.777	4.777	0.000	85801763	100.0	86.0	M
						RPD = 0.81	
5 Endrin aldehyde							M
1	5.000	5.000	0.000	160813277	100.0	88.6	
2	5.001	5.001	0.000	66648255	100.0	88.0	M
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.114	5.114	0.000	106421717	100.0	84.9	
2	5.279	5.279	0.000	77367202	100.0	91.3	
						RPD = 7.16	
10 Methoxychlor							M
1	5.210	5.210	0.000	145916344	100.0	85.6	
2	5.114	5.114	0.000	42502692	100.0	83.9	M
						RPD = 1.98	
34 Mirex							
1	5.280	5.280	0.000	187010061	100.0	90.4	
2	5.213	5.213	0.000	57589567	100.0	84.0	
						RPD = 7.34	
13 Endrin ketone							
1	5.455	5.455	0.000	232330548	100.0	93.6	
2	5.454	5.454	0.000	88555543	100.0	91.3	
						RPD = 2.54	
$ 24 DCB Decachlorobiphenyl							
1	6.260	6.260	0.000	188287824	100.0	92.9	
2	6.254	6.254	0.000	75611582	100.0	90.6	
						RPD = 2.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

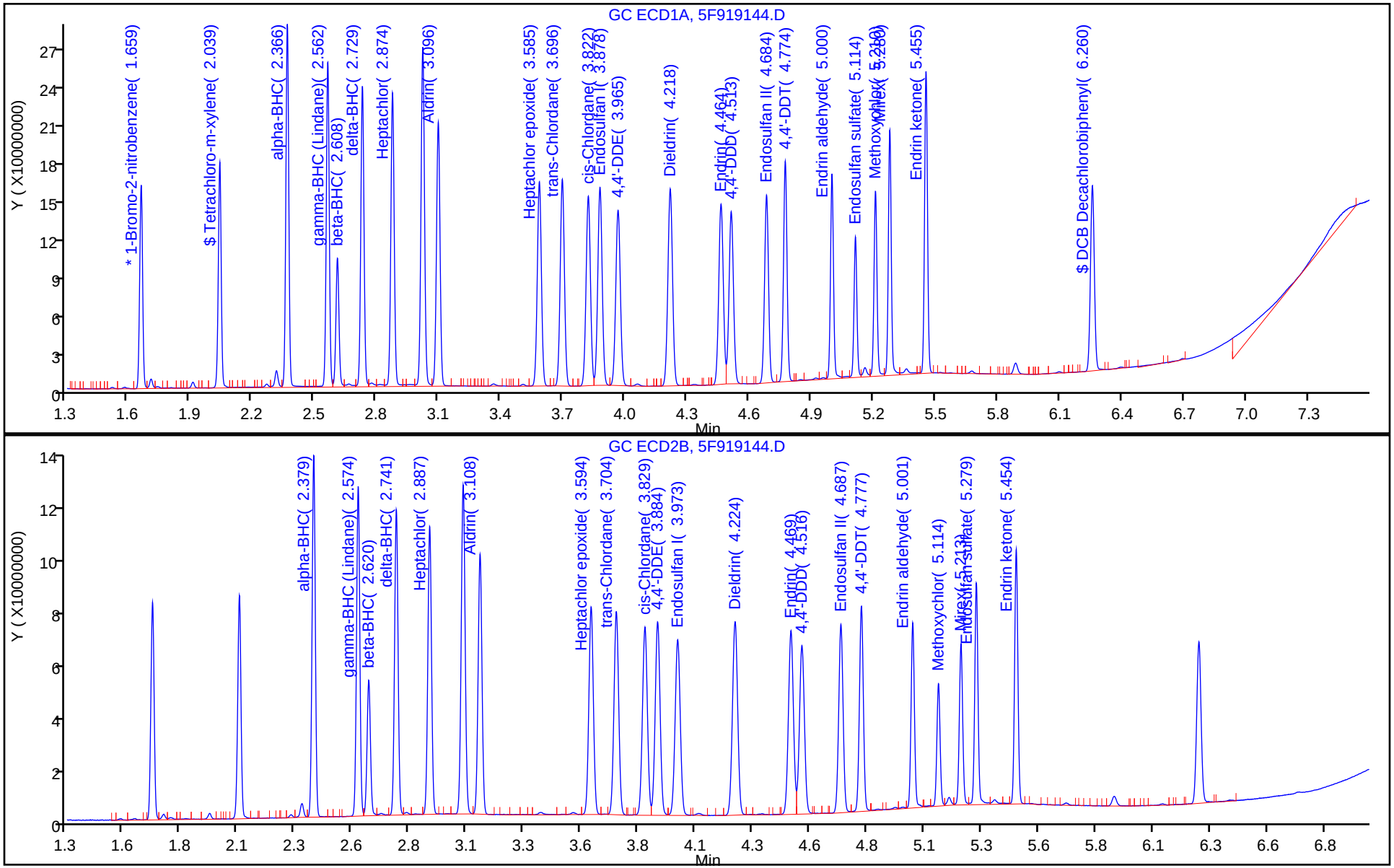
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D

Injection Date:	21-Mar-2018 07:23:48	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

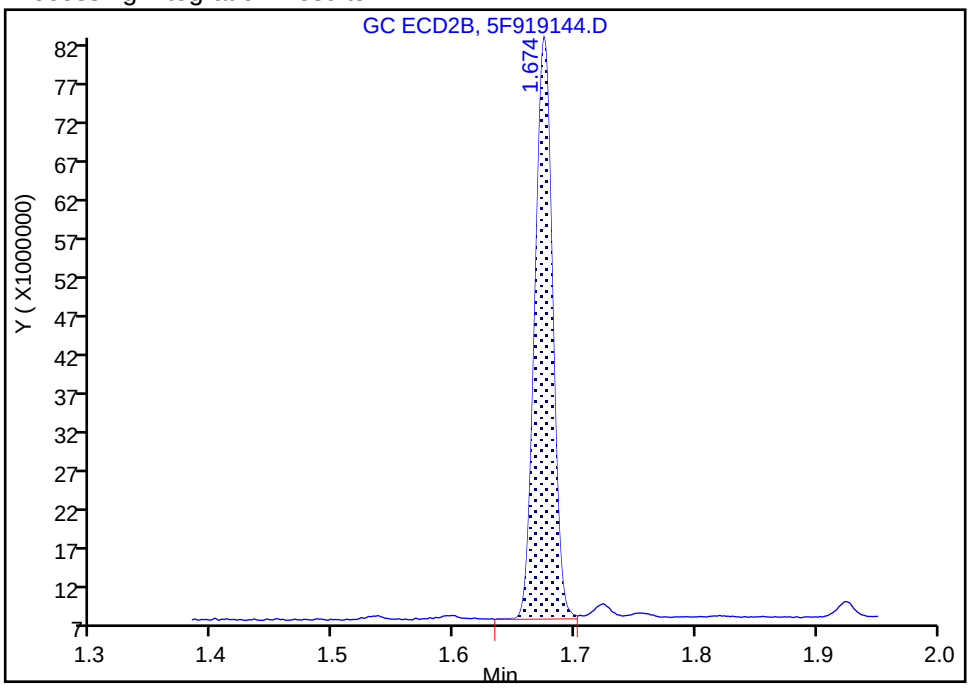
Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919144.D
Injection Date: 21-Mar-2018 07:23:48 Instrument ID: CPESTGC5
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 38 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

* 37 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

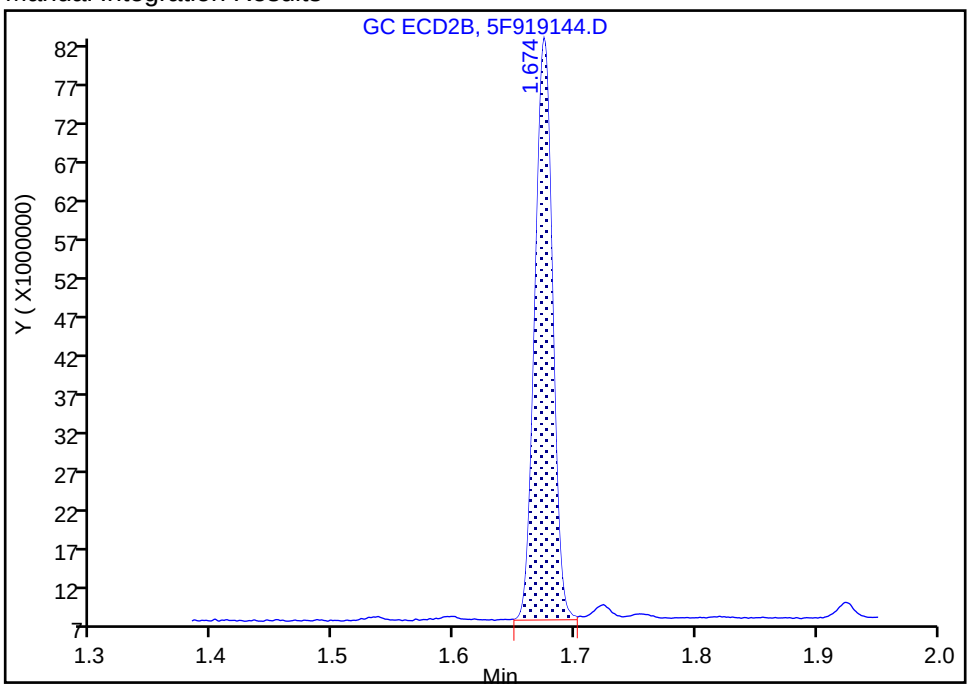
Processing Integration Results

RT: 1.67
Area: 75748266
Amount: 100.0000
Amount Units: ug/l



Manual Integration Results

RT: 1.67
Area: 75663969
Amount: 100.0000
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:01:20
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/4 Calibration Date: 03/21/2018 07:36

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919145.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	0.0409	0.0363		888	1000	-11.2	20.0
Chlordane (technical) Peak 2	Ave	0.0472	0.0408		866	1000	-13.4	20.0
Chlordane (technical) Peak 3	Ave	0.0362	0.0282		0.0550	1000	-22.3*	20.0
Chlordane (technical) Peak 4	Ave	0.1761	0.1477		839	1000	-16.1	20.0
Chlordane (technical) Peak 5	Ave	0.3064	0.2610		852	1000	-14.8	20.0
Tetrachloro-m-xylene	Ave	1.059	0.9861		93.1	100	-6.9	20.0
DCB Decachlorobiphenyl	Ave	1.302	1.092		83.9	100	-16.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/4 Calibration Date: 03/21/2018 07:36

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919145.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	2.82	2.81	2.83
Chlordane (technical) Peak 2	3.19	3.18	3.20
Chlordane (technical) Peak 3	3.53	3.52	3.54
Chlordane (technical) Peak 4	3.70	3.69	3.71
Chlordane (technical) Peak 5	3.80	3.79	3.81
Tetrachloro-m-xylene	2.04	2.03	2.05
DCB Decachlorobiphenyl	6.26	6.25	6.27

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D
Lims ID: CCV CHLO
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:36:39 ALS Bottle#: 39 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:48 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	155280671	100.0	100.0	
2	1.676	1.676	0.000	75457918	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	153122130	100.0	93.1	
2	2.056	2.056	0.000	70792797	100.0	90.5	
						RPD = 2.81	
31 Chlordane (technical)							M
1	2.821	2.821	0.000	56407824	1000.0	888.4	M
1	3.193	3.193	0.000	63416300	1000.0	865.6	M
1	0.000	3.527	0.000	0	1000.0	0	
1	3.698	3.698	0.000	229337539	1000.0	838.6	M
1	3.804	3.804	0.000	405335088	1000.0	851.9	M
		Average of Peak Amounts =				861.1	
2	2.834	2.834	0.000	27162923	1000.0	895.8	M
2	3.204	3.204	0.000	31283905	1000.0	851.8	M
2	0.000	3.536	0.000	0	1000.0	0	
2	3.706	3.706	0.000	103899013	1000.0	828.5	M
2	3.811	3.811	0.000	181122101	1000.0	821.8	M
		Average of Peak Amounts =				849.5	
						RPD = 1.36	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	169630778	100.0	83.9	
2	6.255	6.255	0.000	68656785	100.0	82.5	
						RPD = 1.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

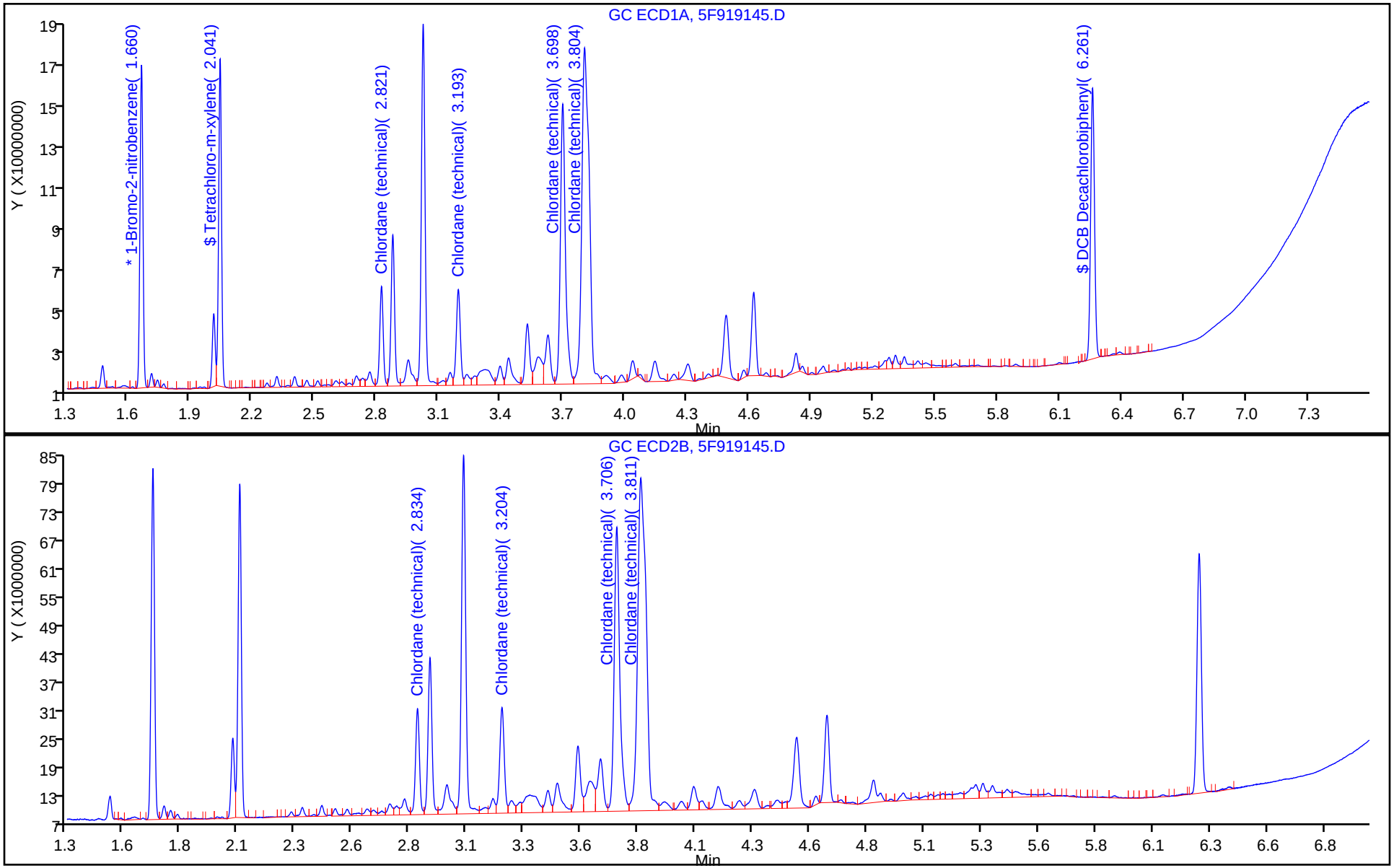
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D

Injection Date:	21-Mar-2018 07:36:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV CHLO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



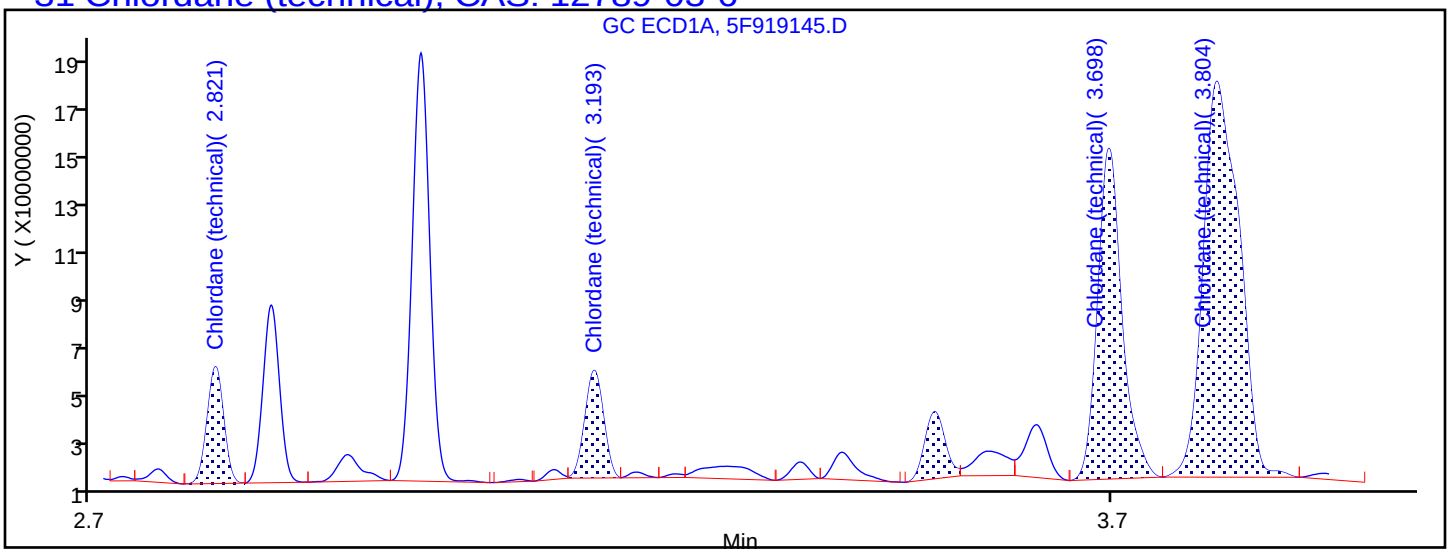
Report Date: 21-Mar-2018 11:44:50 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D

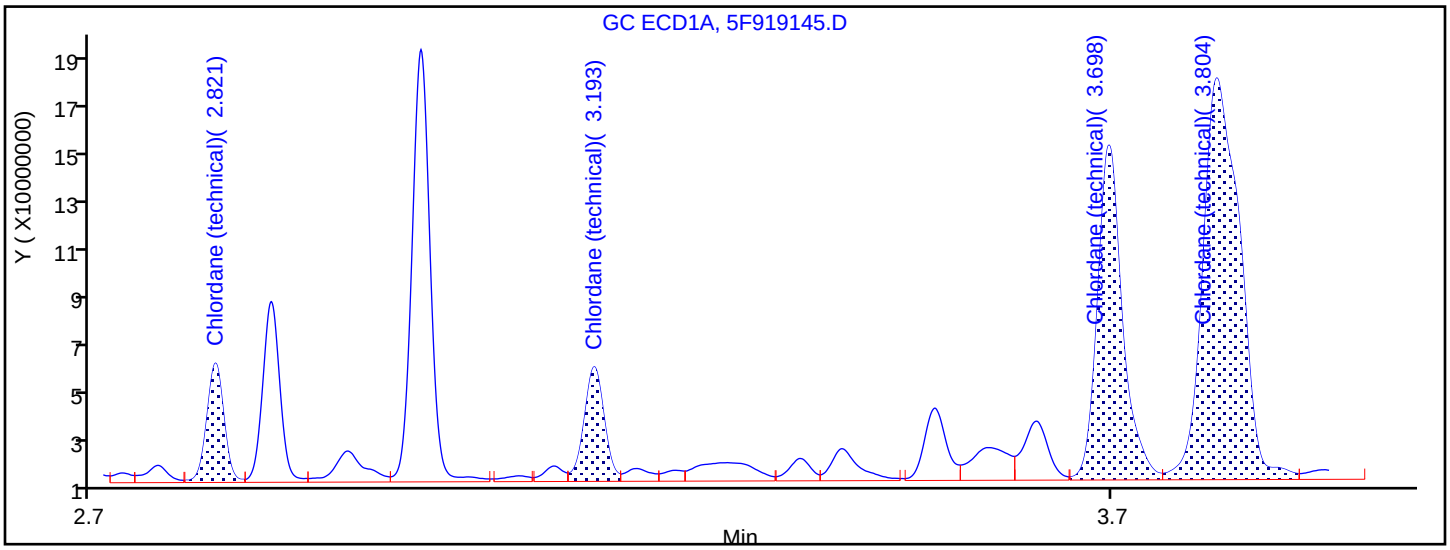
Injection Date:	21-Mar-2018 07:36:39	Instrument ID:	CPESTGC5		
Lims ID:	CCV CHLO				
Client ID:					
Operator ID:		ALS Bottle#:	39	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

31 Chlordane (technical), CAS: 12789-03-6



Processing Integration Results

2.821	Response = 52845419
3.193	Response = 54749507
3.527	Response = 37198952
3.698	Response = 219019043
3.804	Response = 385829865



Manual Integration Results

2.821	Response = 56407824	M
3.193	Response = 63416300	M
3.527	Response = 0	
3.698	Response = 229337539	M
3.804	Response = 405335088	M

Reviewer: patelji, 21-Mar-2018 10:02:05

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/4 Calibration Date: 03/21/2018 07:36

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919145.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	0.0402	0.0360		896	1000	-10.4	20.0
Chlordane (technical) Peak 2	Ave	0.0487	0.0415		852	1000	-14.8	20.0
Chlordane (technical) Peak 3	Ave	0.0366	0.0280		0.0550	1000	-23.6*	20.0
Chlordane (technical) Peak 4	Ave	0.1662	0.1377		828	1000	-17.2	20.0
Chlordane (technical) Peak 5	Ave	0.2921	0.2400		822	1000	-17.8	20.0
Tetrachloro-m-xylene	Ave	1.036	0.9382		90.5	100	-9.5	20.0
DCB Decachlorobiphenyl	Ave	1.102	0.9099		82.5	100	-17.5	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/4 Calibration Date: 03/21/2018 07:36

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919145.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	2.83	2.82	2.84
Chlordane (technical) Peak 2	3.20	3.19	3.21
Chlordane (technical) Peak 3	3.54	3.53	3.55
Chlordane (technical) Peak 4	3.71	3.70	3.72
Chlordane (technical) Peak 5	3.81	3.80	3.82
Tetrachloro-m-xylene	2.06	2.05	2.07
DCB Decachlorobiphenyl	6.26	6.25	6.27

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D
Lims ID: CCV CHLO
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:36:39 ALS Bottle#: 39 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub10

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:48 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:01:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	155280671	100.0	100.0	
2	1.676	1.676	0.000	75457918	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	153122130	100.0	93.1	
2	2.056	2.056	0.000	70792797	100.0	90.5	
						RPD = 2.81	
31 Chlordane (technical)							M
1	2.821	2.821	0.000	56407824	1000.0	888.4	M
1	3.193	3.193	0.000	63416300	1000.0	865.6	M
1	0.000	3.527	0.000	0	1000.0	0	
1	3.698	3.698	0.000	229337539	1000.0	838.6	M
1	3.804	3.804	0.000	405335088	1000.0	851.9	M
		Average of Peak Amounts =				861.1	
2	2.834	2.834	0.000	27162923	1000.0	895.8	M
2	3.204	3.204	0.000	31283905	1000.0	851.8	M
2	0.000	3.536	0.000	0	1000.0	0	
2	3.706	3.706	0.000	103899013	1000.0	828.5	M
2	3.811	3.811	0.000	181122101	1000.0	821.8	M
		Average of Peak Amounts =				849.5	
						RPD = 1.36	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	169630778	100.0	83.9	
2	6.255	6.255	0.000	68656785	100.0	82.5	
						RPD = 1.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

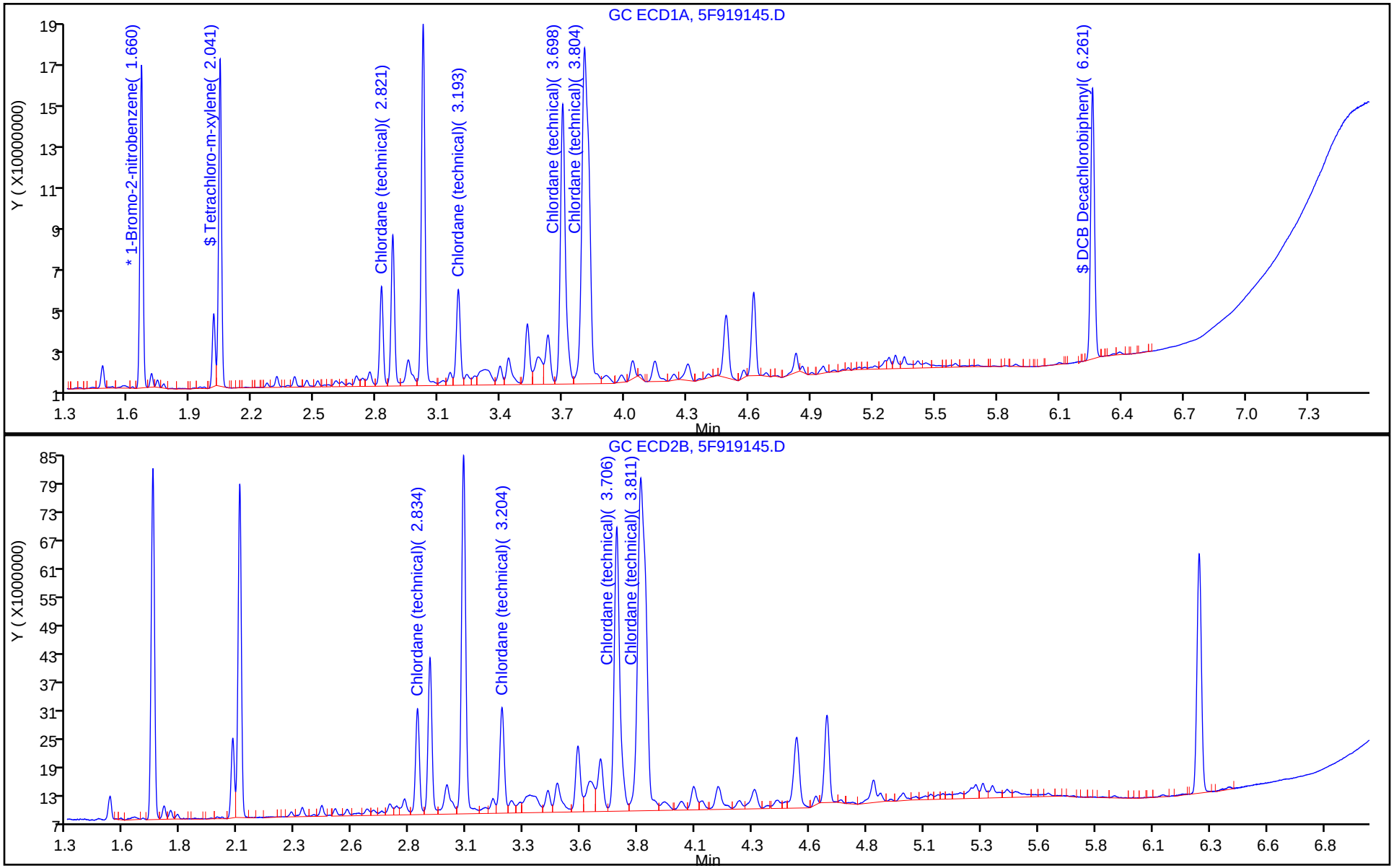
SGCHOL3_00025	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 11:44:50 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D

Injection Date:	21-Mar-2018 07:36:39	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV CHLO			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



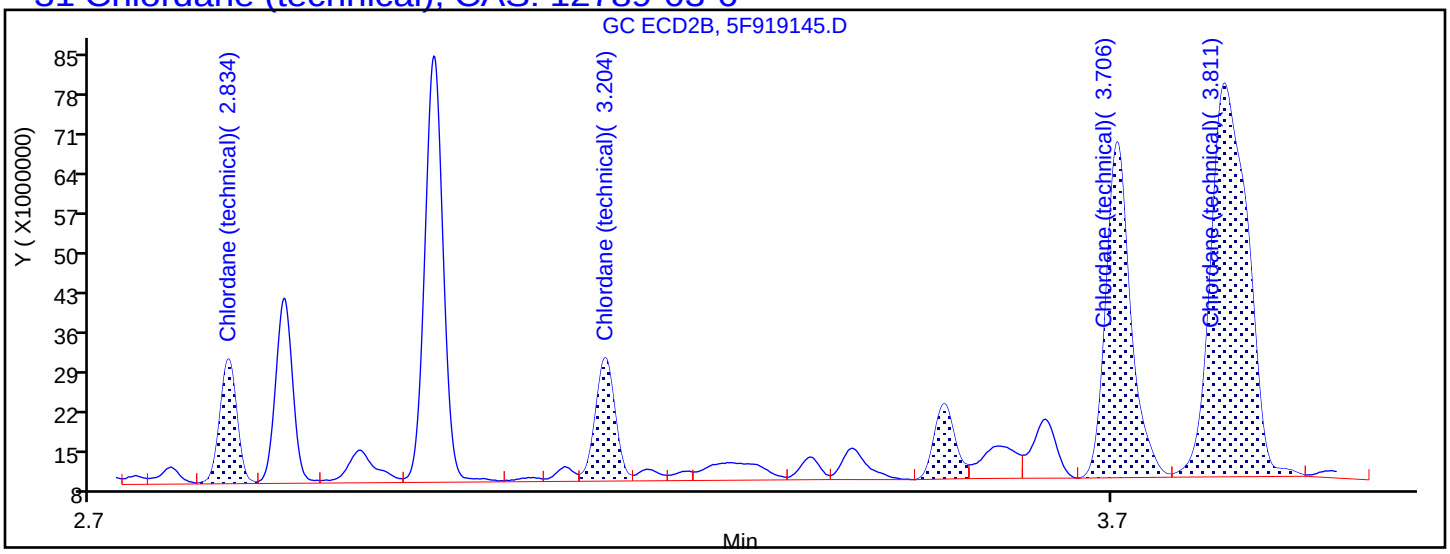
Report Date: 21-Mar-2018 11:44:51 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919145.D

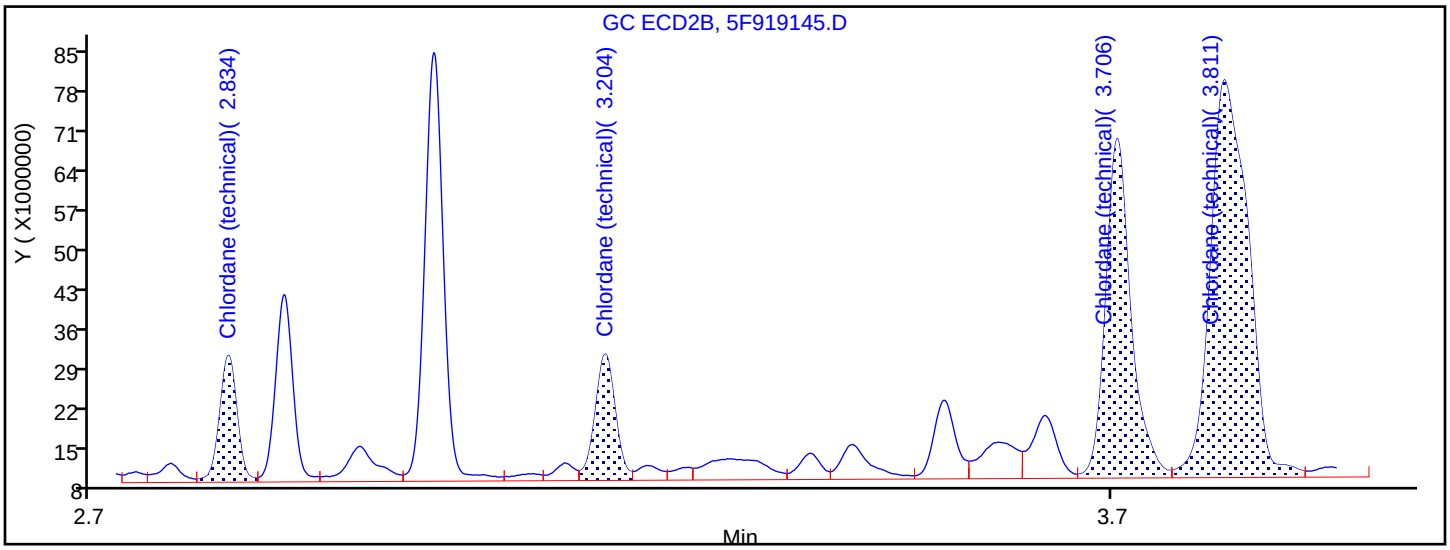
Injection Date:	21-Mar-2018 07:36:39	Instrument ID:	CPESTGC5		
Lims ID:	CCV CHLO				
Client ID:					
Operator ID:		ALS Bottle#:	39	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

31 Chlordane (technical), CAS: 12789-03-6



Processing Integration Results

2.834	Response = 25720125
3.204	Response = 29540672
3.536	Response = 19100704
3.706	Response = 99801587
3.811	Response = 174774210



Manual Integration Results

2.834	Response = 27162923	M
3.204	Response = 31283905	M
3.536	Response = 0	
3.706	Response = 103899013	M
3.811	Response = 181122101	M

Reviewer: patelji, 21-Mar-2018 10:02:10

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919146.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.059	1.130		107	100	6.7	20.0
DCB Decachlorobiphenyl	Ave	1.302	1.318		101	100	1.2	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919146.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.04	2.03	2.05
DCB Decachlorobiphenyl	6.26	6.25	6.27

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:49:26 ALS Bottle#: 40 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:02:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	119331618	100.0	100.0	
2	1.676	1.676	0.000	59402791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	134882008	100.0	106.7	
2	2.056	2.056	0.000	64416499	100.0	104.6	
						RPD = 1.97	
22 Toxaphene							
1	0.000	4.394	-4.394	0	1000.0	0	
1	4.900	4.909	-0.009	37872248	1000.0	897.2	
1	4.941	4.949	-0.008	49404809	1000.0	912.1	
1	5.218	5.226	-0.008	64460716	1000.0	878.5	
1	5.442	5.450	-0.008	32830951	1000.0	1111.2	
		Average of Peak Amounts =				949.7	
2	0.000	0.000	0.000	0	1000.0	0	
2	4.943	4.952	-0.009	24889181	1000.0	933.1	
2	5.089	5.099	-0.010	26323806	1000.0	958.0	
2	0.000	5.168	-5.168	0	1000.0	0	
2	5.219	5.229	-0.010	30248977	1000.0	972.3	
		Average of Peak Amounts =				954.5	
						RPD = 0.50	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	157233537	100.0	101.2	
2	6.255	6.255	0.000	62895016	100.0	96.0	
						RPD = 5.25	

Reagents:

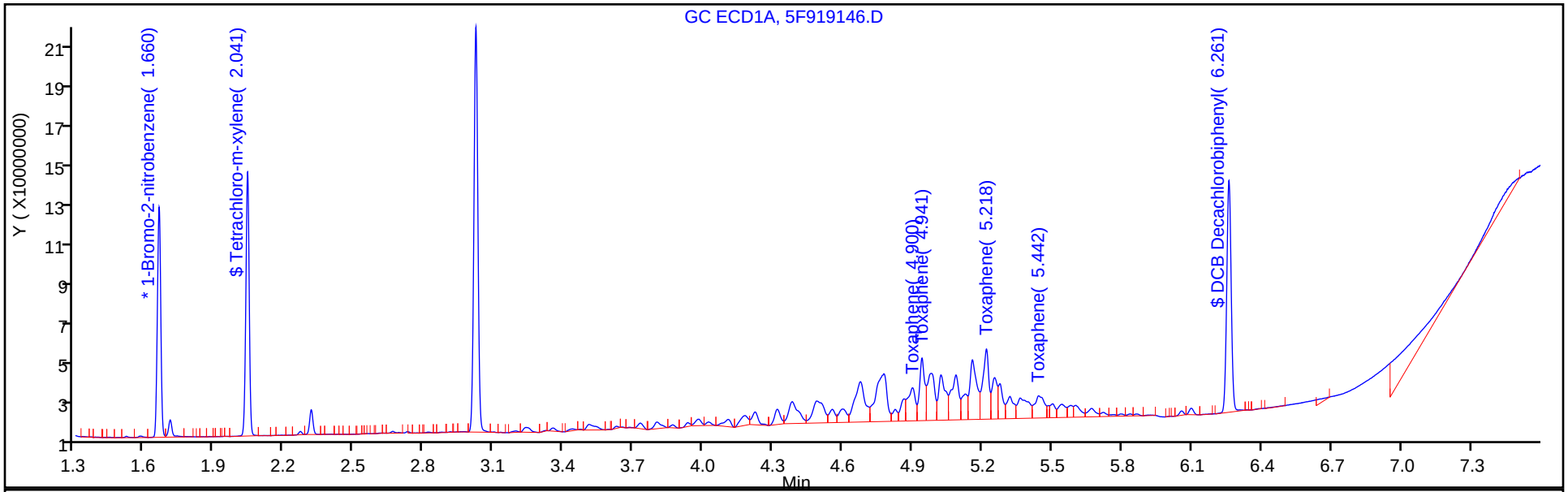
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

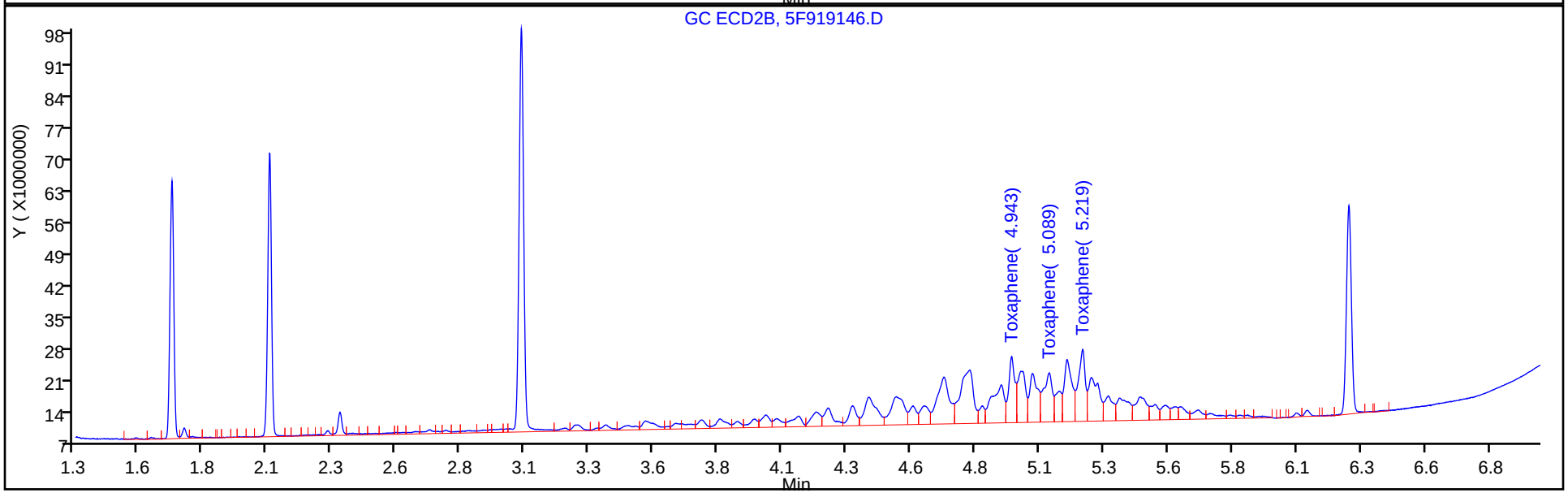
Report Date: 21-Mar-2018 11:44:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D

Injection Date:	21-Mar-2018 07:49:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 17:55

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 18:46

Lab File ID: 5F919146.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0390	0.0000		0.110	1000	-100.0*	20.0
Toxaphene Peak 2	Ave	0.0354	0.0317		897	1000	-10.3	20.0
Toxaphene Peak 3	Ave	0.0454	0.0414		912	1000	-8.8	20.0
Toxaphene Peak 4	Ave	0.0615	0.0540		878	1000	-12.2	20.0
Toxaphene Peak 5	Ave	0.0248	0.0275		1110	1000	11.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 17:55

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 02/08/2018 18:46

Lab File ID: 5F919146.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	0.00	4.38	4.40
Toxaphene Peak 2	4.90	4.90	4.92
Toxaphene Peak 3	4.94	4.94	4.96
Toxaphene Peak 4	5.22	5.22	5.24
Toxaphene Peak 5	5.44	5.44	5.46

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:49:26 ALS Bottle#: 40 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:02:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	119331618	100.0	100.0	
2	1.676	1.676	0.000	59402791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	134882008	100.0	106.7	
2	2.056	2.056	0.000	64416499	100.0	104.6	
						RPD = 1.97	
22 Toxaphene							
1	0.000	4.394	-4.394	0	1000.0	0	
1	4.900	4.909	-0.009	37872248	1000.0	897.2	
1	4.941	4.949	-0.008	49404809	1000.0	912.1	
1	5.218	5.226	-0.008	64460716	1000.0	878.5	
1	5.442	5.450	-0.008	32830951	1000.0	1111.2	
		Average of Peak Amounts =				949.7	
2	0.000	0.000	0.000	0	1000.0	0	
2	4.943	4.952	-0.009	24889181	1000.0	933.1	
2	5.089	5.099	-0.010	26323806	1000.0	958.0	
2	0.000	5.168	-5.168	0	1000.0	0	
2	5.219	5.229	-0.010	30248977	1000.0	972.3	
		Average of Peak Amounts =				954.5	
						RPD = 0.50	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	157233537	100.0	101.2	
2	6.255	6.255	0.000	62895016	100.0	96.0	
						RPD = 5.25	

Reagents:

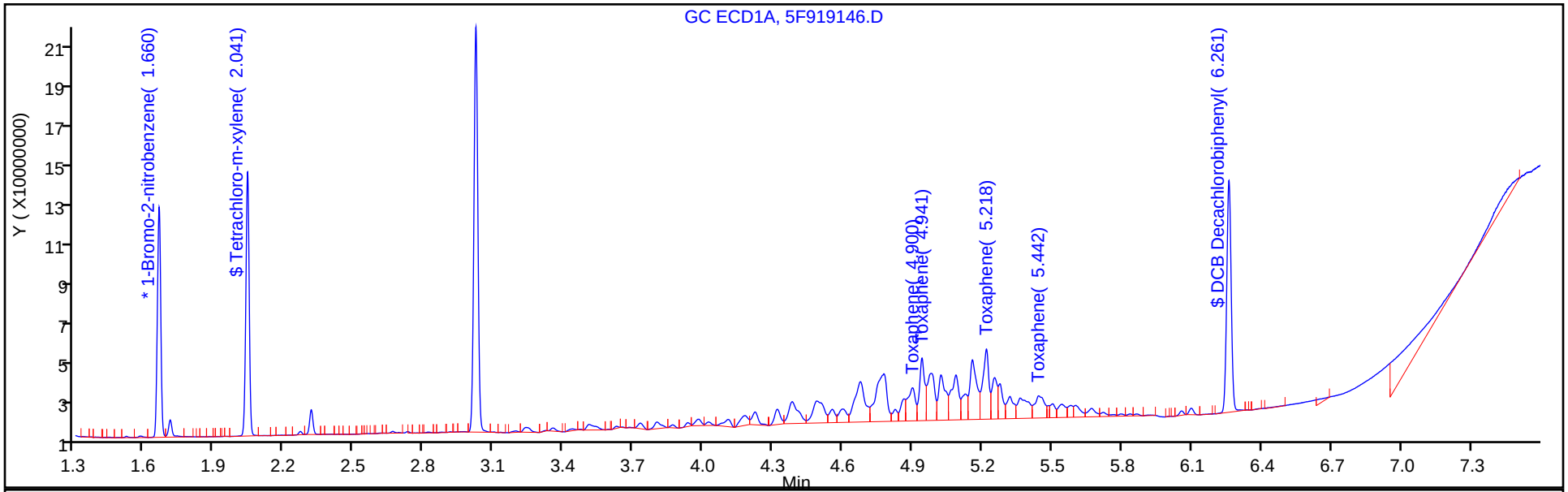
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

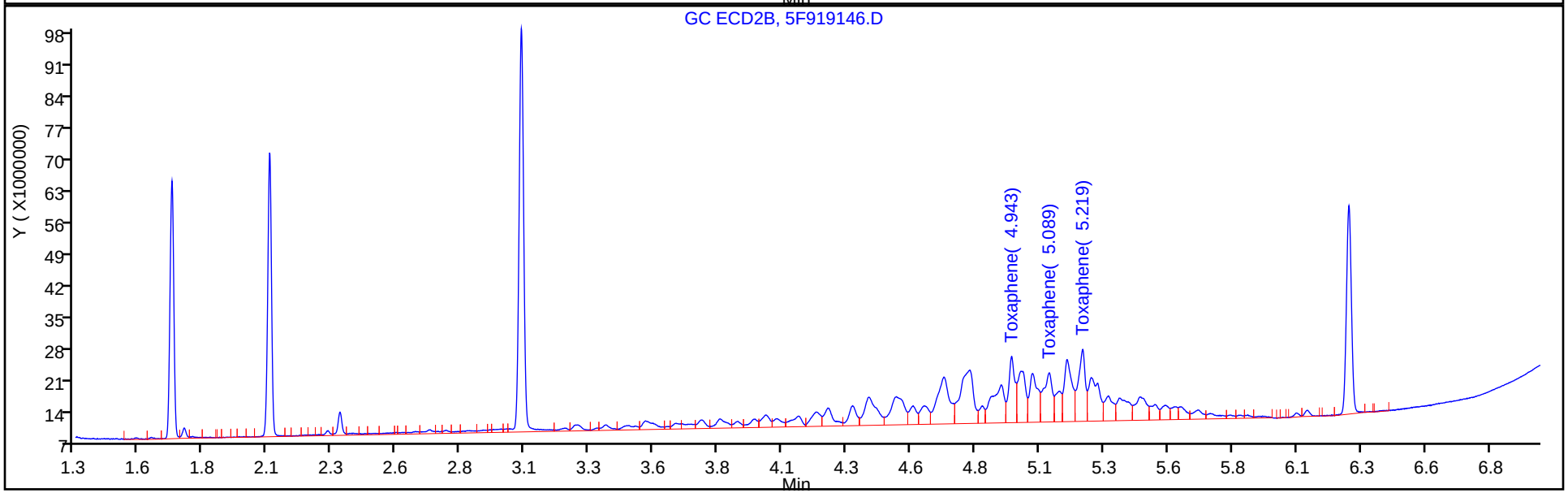
Report Date: 21-Mar-2018 11:44:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D

Injection Date:	21-Mar-2018 07:49:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919146.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.036	1.084		105	100	4.6	20.0
DCB Decachlorobiphenyl	Ave	1.102	1.059		96.0	100	-4.0	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 16:38

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 17:29

Lab File ID: 5F919146.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.06	2.05	2.07
DCB Decachlorobiphenyl	6.26	6.25	6.27

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:49:26 ALS Bottle#: 40 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:02:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	119331618	100.0	100.0	
2	1.676	1.676	0.000	59402791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	134882008	100.0	106.7	
2	2.056	2.056	0.000	64416499	100.0	104.6	
						RPD = 1.97	
22 Toxaphene							
1	0.000	4.394	-4.394	0	1000.0	0	
1	4.900	4.909	-0.009	37872248	1000.0	897.2	
1	4.941	4.949	-0.008	49404809	1000.0	912.1	
1	5.218	5.226	-0.008	64460716	1000.0	878.5	
1	5.442	5.450	-0.008	32830951	1000.0	1111.2	
		Average of Peak Amounts =				949.7	
2	0.000	0.000	0.000	0	1000.0	0	
2	4.943	4.952	-0.009	24889181	1000.0	933.1	
2	5.089	5.099	-0.010	26323806	1000.0	958.0	
2	0.000	5.168	-5.168	0	1000.0	0	
2	5.219	5.229	-0.010	30248977	1000.0	972.3	
		Average of Peak Amounts =				954.5	
						RPD = 0.50	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	157233537	100.0	101.2	
2	6.255	6.255	0.000	62895016	100.0	96.0	
						RPD = 5.25	

Reagents:

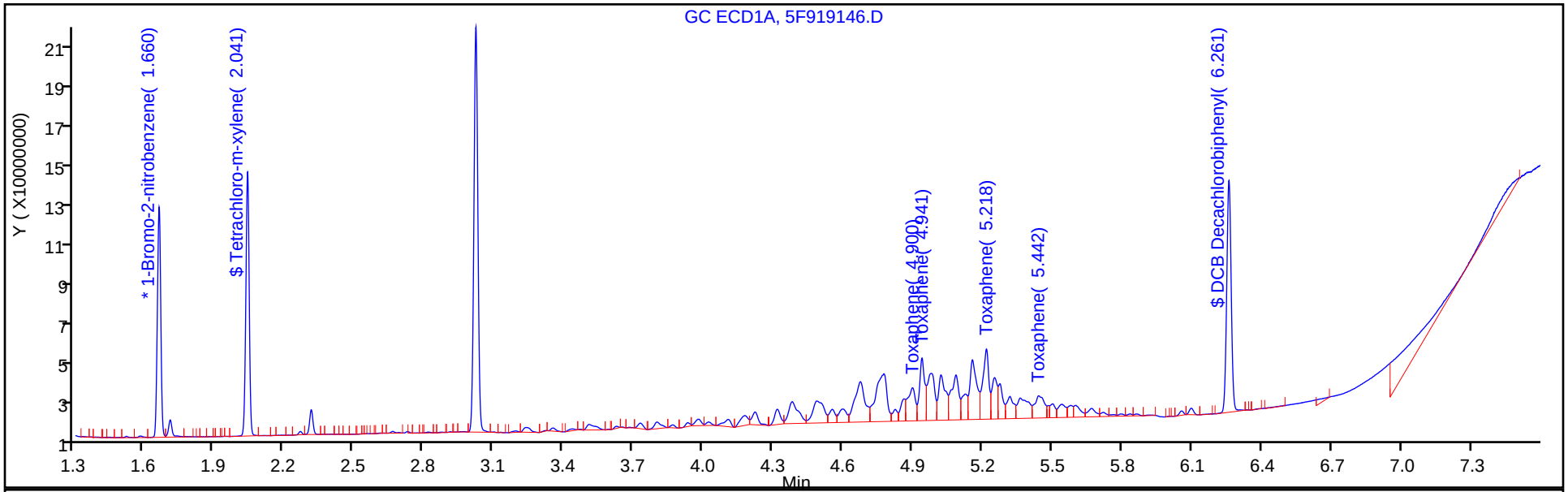
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

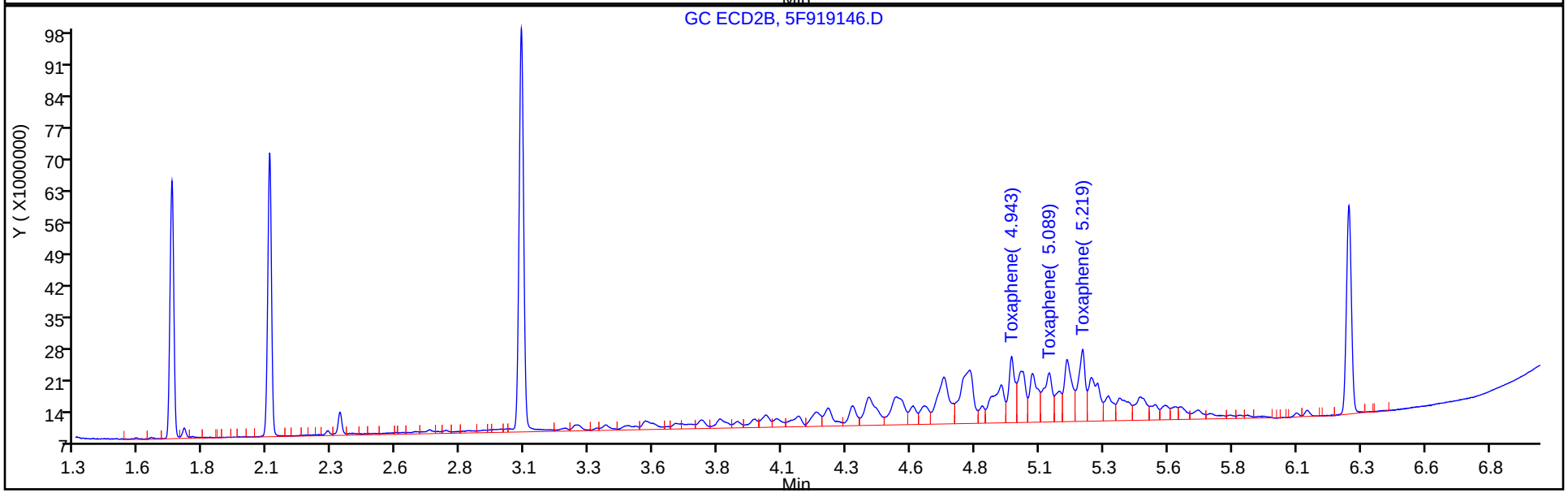
Report Date: 21-Mar-2018 11:44:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D

Injection Date:	21-Mar-2018 07:49:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 17:55

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 18:46

Lab File ID: 5F919146.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0481	0.0000		0.110	1000	-100.0*	20.0
Toxaphene Peak 4	Ave	0.0541	0.0000		0.110	1000	-100.0*	20.0
Toxaphene Peak 2	Ave	0.0449	0.0419		933	1000	-6.7	20.0
Toxaphene Peak 3	Ave	0.0463	0.0443		958	1000	-4.2	20.0
Toxaphene Peak 5	Ave	0.0524	0.0509		972	1000	-2.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505044/5 Calibration Date: 03/21/2018 07:49

Instrument ID: CPESTGC5 Calib Start Date: 02/08/2018 17:55

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 02/08/2018 18:46

Lab File ID: 5F919146.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	0.00	0.00	0.01
Toxaphene Peak 4	0.00	5.16	5.18
Toxaphene Peak 2	4.94	4.94	4.96
Toxaphene Peak 3	5.09	5.09	5.11
Toxaphene Peak 5	5.22	5.22	5.24

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 21-Mar-2018 07:49:26 ALS Bottle#: 40 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5
Sublist: chrom-GC 5 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:02:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.660	1.660	0.000	119331618	100.0	100.0	
2	1.676	1.676	0.000	59402791	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.041	2.041	0.000	134882008	100.0	106.7	
2	2.056	2.056	0.000	64416499	100.0	104.6	
						RPD = 1.97	
22 Toxaphene							
1	0.000	4.394	-4.394	0	1000.0	0	
1	4.900	4.909	-0.009	37872248	1000.0	897.2	
1	4.941	4.949	-0.008	49404809	1000.0	912.1	
1	5.218	5.226	-0.008	64460716	1000.0	878.5	
1	5.442	5.450	-0.008	32830951	1000.0	1111.2	
		Average of Peak Amounts =				949.7	
2	0.000	0.000	0.000	0	1000.0	0	
2	4.943	4.952	-0.009	24889181	1000.0	933.1	
2	5.089	5.099	-0.010	26323806	1000.0	958.0	
2	0.000	5.168	-5.168	0	1000.0	0	
2	5.219	5.229	-0.010	30248977	1000.0	972.3	
		Average of Peak Amounts =				954.5	
						RPD = 0.50	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	157233537	100.0	101.2	
2	6.255	6.255	0.000	62895016	100.0	96.0	
						RPD = 5.25	

Reagents:

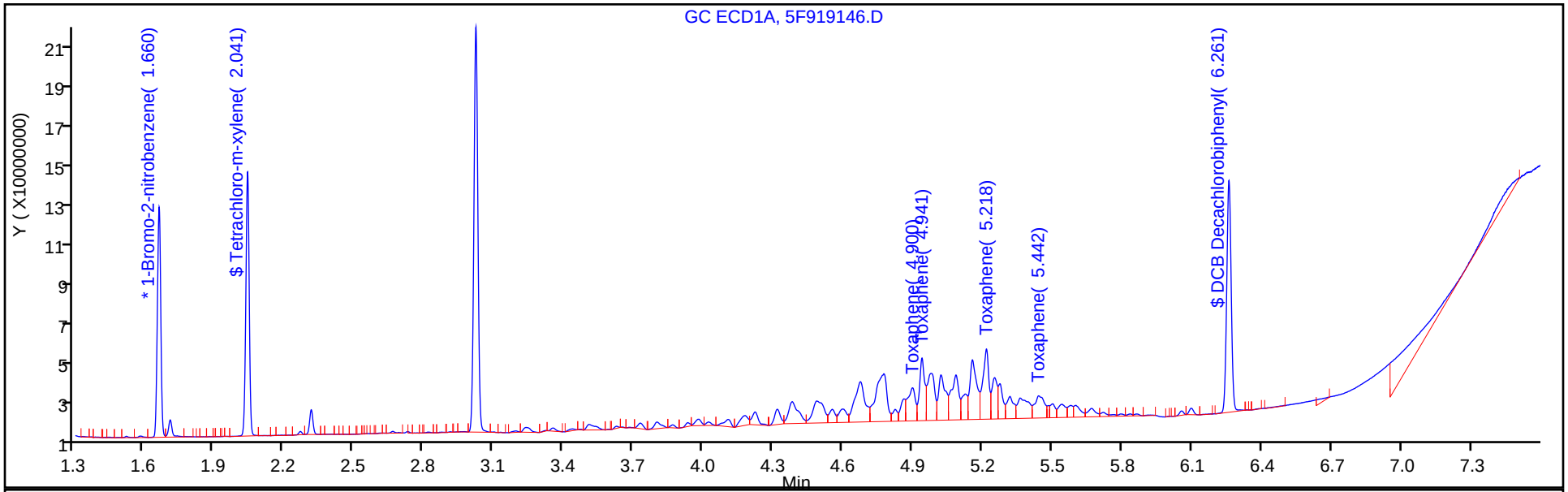
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

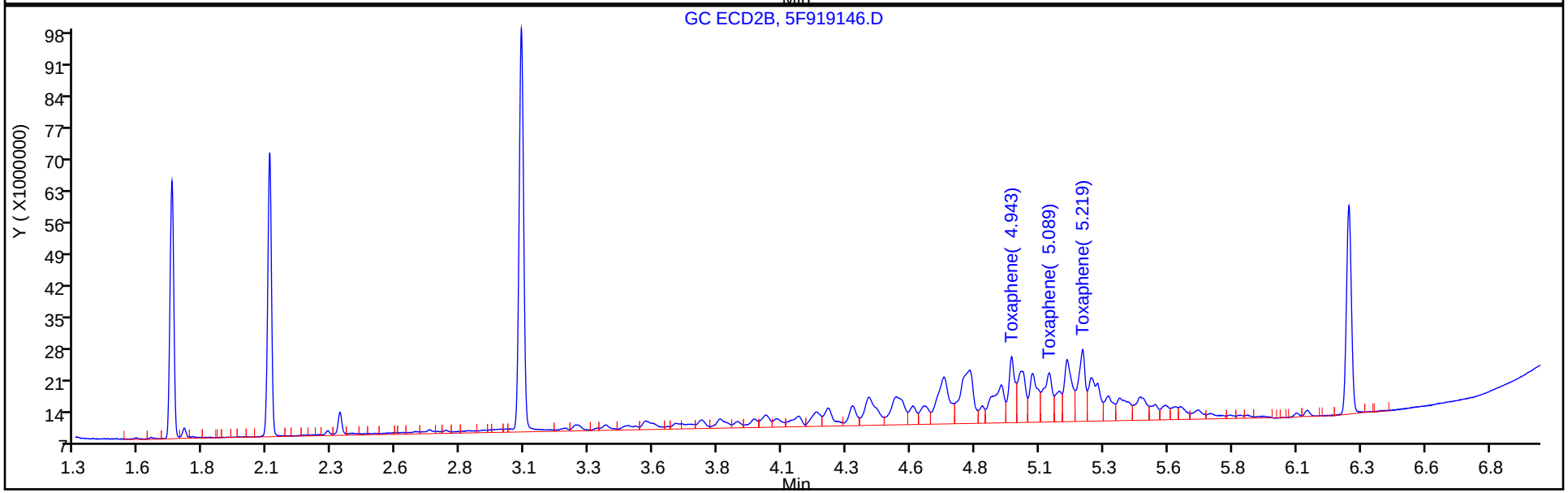
Report Date: 21-Mar-2018 11:44:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919146.D

Injection Date:	21-Mar-2018 07:49:26	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-504710/1-A

Matrix: Water Lab File ID: 5F919147.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) Date Analyzed: 03/21/2018 09:08

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

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505044 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		10-150
877-09-8	Tetrachloro-m-xylene	81		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D
Lims ID: MB 460-504710/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2018 09:08:58 ALS Bottle#: 41 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: dalanginc Date: 21-Mar-2018 11:42:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.664	1.660	0.004	126134875	100.0	100.0	
2	1.679	1.676	0.003	64383966	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.046	2.041	0.005	108003562	100.0	80.8	
2	2.059	2.056	0.003	53329058	100.0	79.9	
						RPD = 1.15	
$ 24 DCB Decachlorobiphenyl							
1	6.268	6.261	0.007	131499274	100.0	80.1	
2	6.259	6.255	0.004	53894953	100.0	75.9	
						RPD = 5.33	

Reagents:

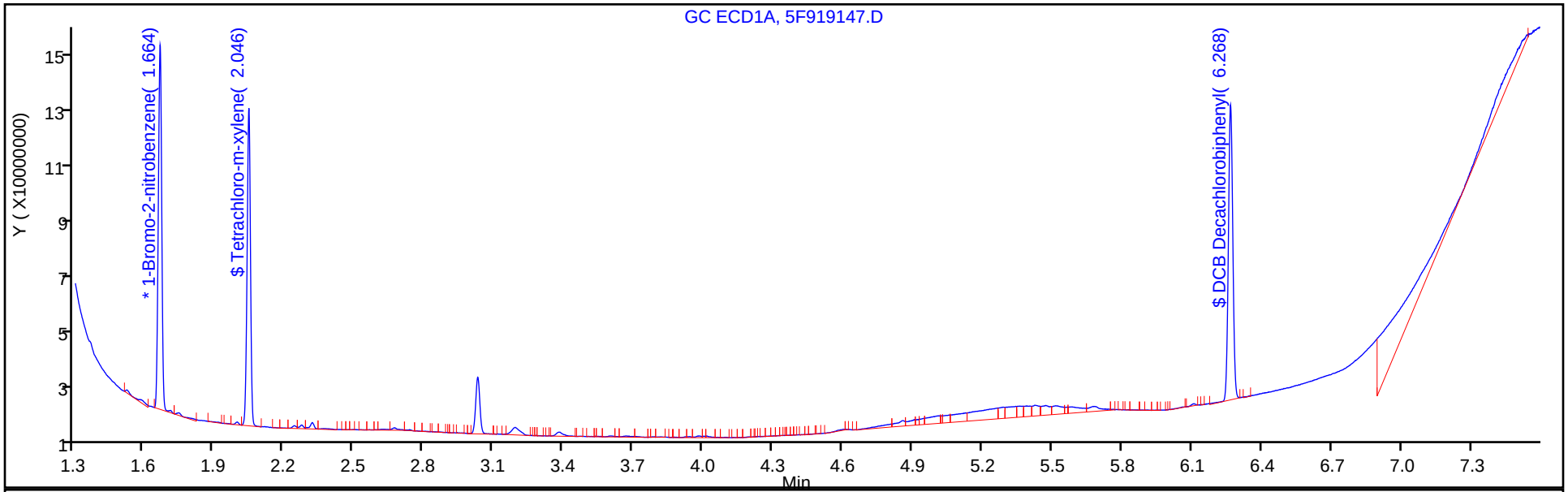
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

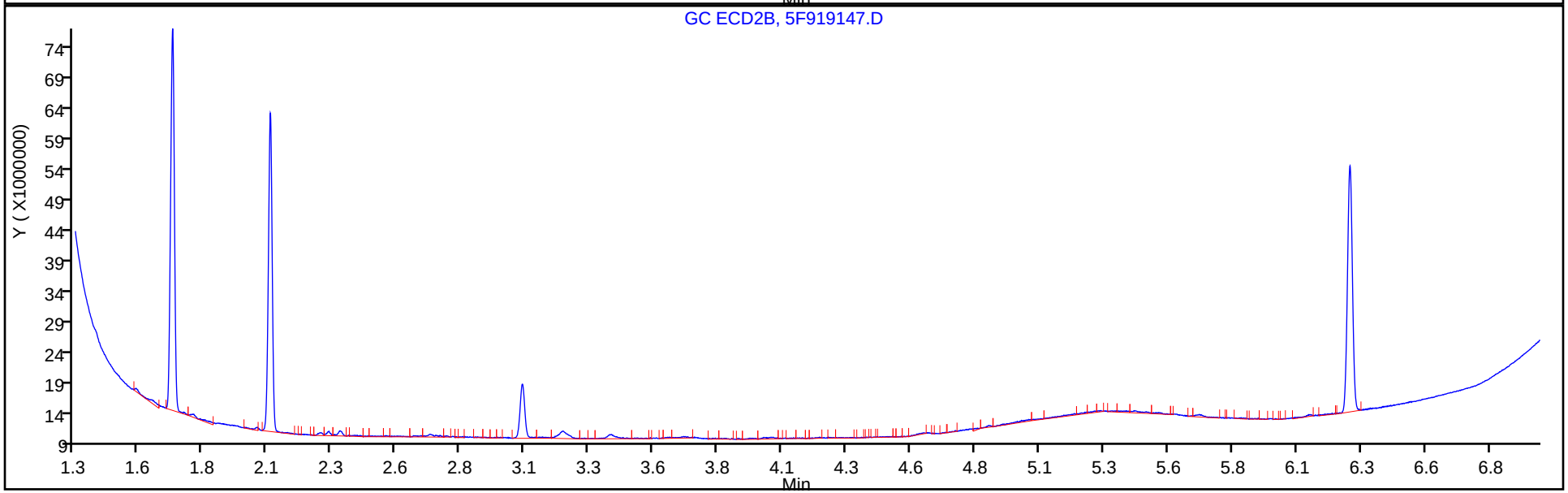
Report Date: 21-Mar-2018 11:44:57 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D

Injection Date:	21-Mar-2018 09:08:58	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	MB 460-504710/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





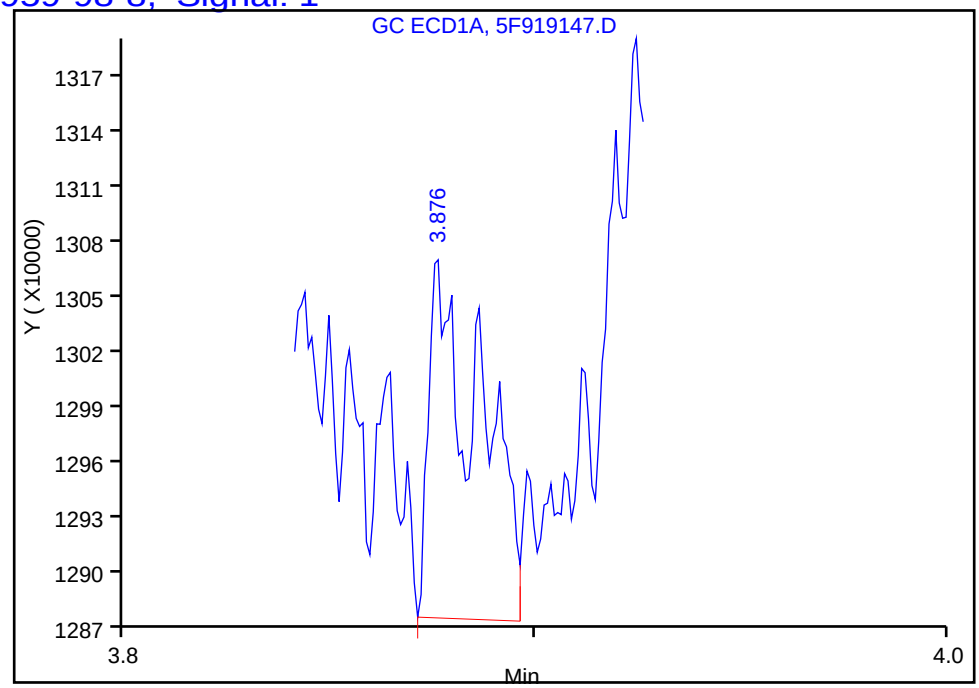
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D
Injection Date: 21-Mar-2018 09:08:58 Instrument ID: CPESTGC5
Lims ID: MB 460-504710/1-A
Client ID:
Operator ID: ALS Bottle#: 41 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC 5 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

7 Endosulfan I, CAS: 959-98-8, Signal: 1

RT: 3.88
Response: 160809
Amount: 0.080106



Reviewer: dalanginc, 21-Mar-2018 11:42:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504710/1-A

Matrix: Water | Lab File ID: 5F919147.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:08

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.0060	U	0.020	0.0060
72-55-9	4,4'-DDE	0.0020	U	0.020	0.0020
50-29-3	4,4'-DDT	0.0040	U	0.020	0.0040
309-00-2	Aldrin	0.0030	U	0.020	0.0030
319-84-6	alpha-BHC	0.0070	U	0.020	0.0070
319-85-7	beta-BHC	0.0040	U	0.020	0.0040
12789-03-6	Chlordane (technical)	0.055	U	0.50	0.055
319-86-8	delta-BHC	0.0050	U	0.020	0.0050
60-57-1	Dieldrin	0.0030	U	0.020	0.0030
959-98-8	Endosulfan I	0.0020	U	0.020	0.0020
33213-65-9	Endosulfan II	0.0040	U	0.020	0.0040
1031-07-8	Endosulfan sulfate	0.0060	U	0.020	0.0060
72-20-8	Endrin	0.0040	U	0.020	0.0040
7421-93-4	Endrin aldehyde	0.0080	U	0.020	0.0080
53494-70-5	Endrin ketone	0.0080	U	0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.012	U	0.020	0.012
76-44-8	Heptachlor	0.0030	U	0.020	0.0030
1024-57-3	Heptachlor epoxide	0.0050	U	0.020	0.0050
72-43-5	Methoxychlor	0.0040	U	0.020	0.0040
8001-35-2	Toxaphene	0.11	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	76		10-150
877-09-8	Tetrachloro-m-xylene	80		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D
Lims ID: MB 460-504710/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2018 09:08:58 ALS Bottle#: 41 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: dalanginc Date: 21-Mar-2018 11:42:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.664	1.660	0.004	126134875	100.0	100.0	
2	1.679	1.676	0.003	64383966	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.046	2.041	0.005	108003562	100.0	80.8	
2	2.059	2.056	0.003	53329058	100.0	79.9	
						RPD = 1.15	
$ 24 DCB Decachlorobiphenyl							
1	6.268	6.261	0.007	131499274	100.0	80.1	
2	6.259	6.255	0.004	53894953	100.0	75.9	
						RPD = 5.33	

Reagents:

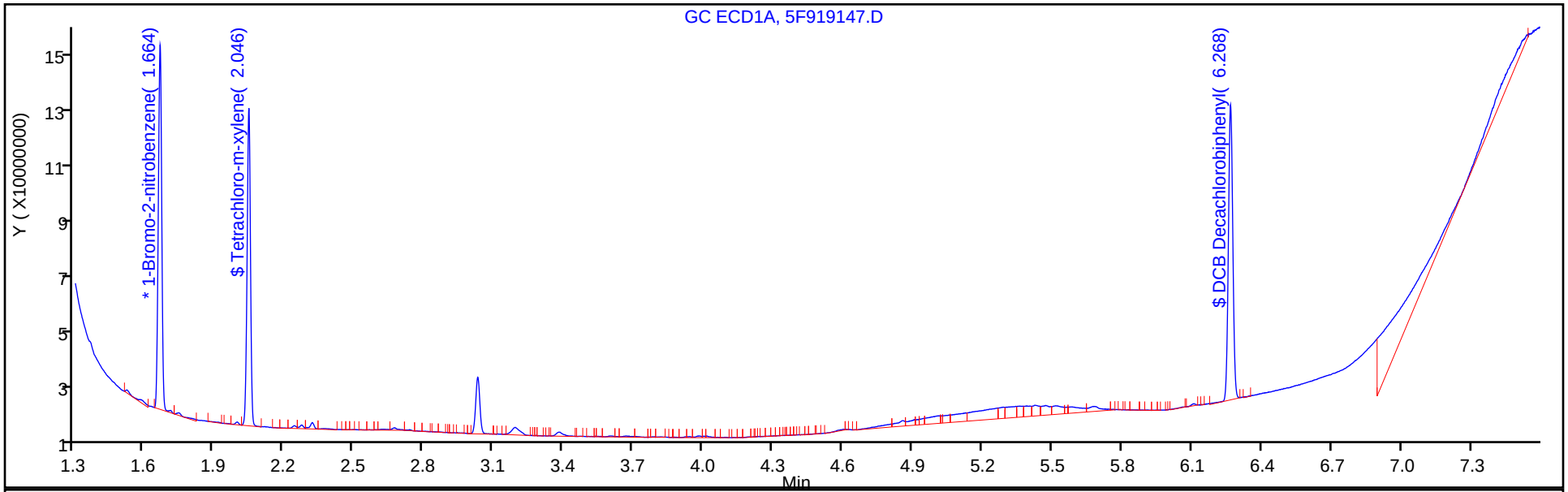
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

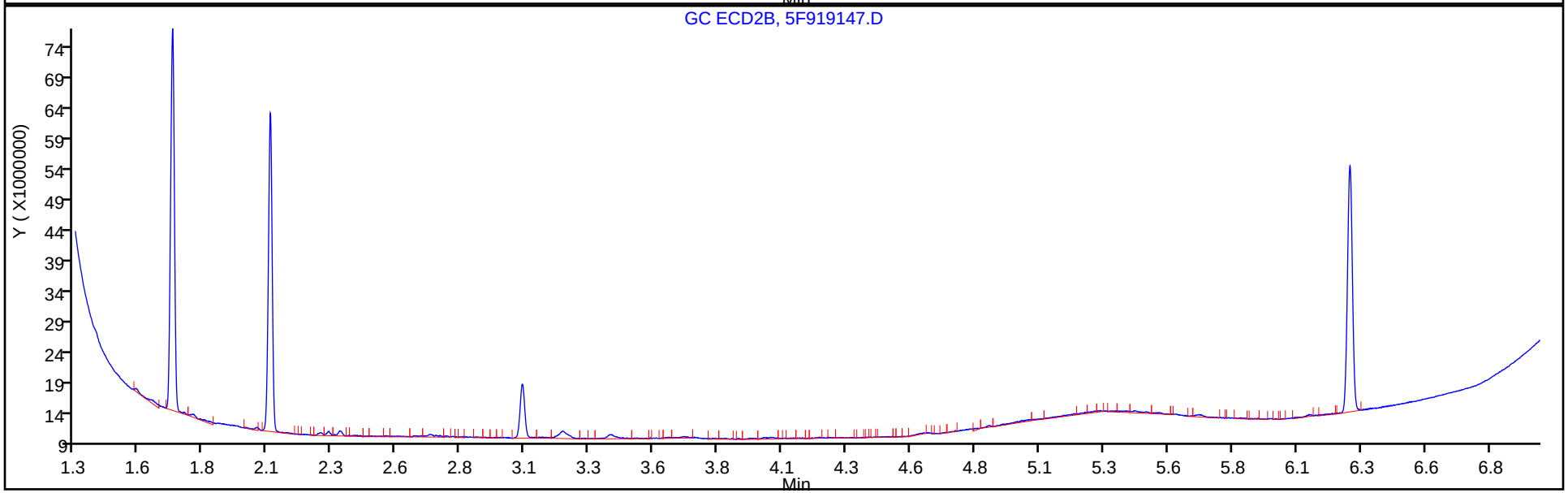
Report Date: 21-Mar-2018 11:44:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D

Injection Date:	21-Mar-2018 09:08:58	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	MB 460-504710/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





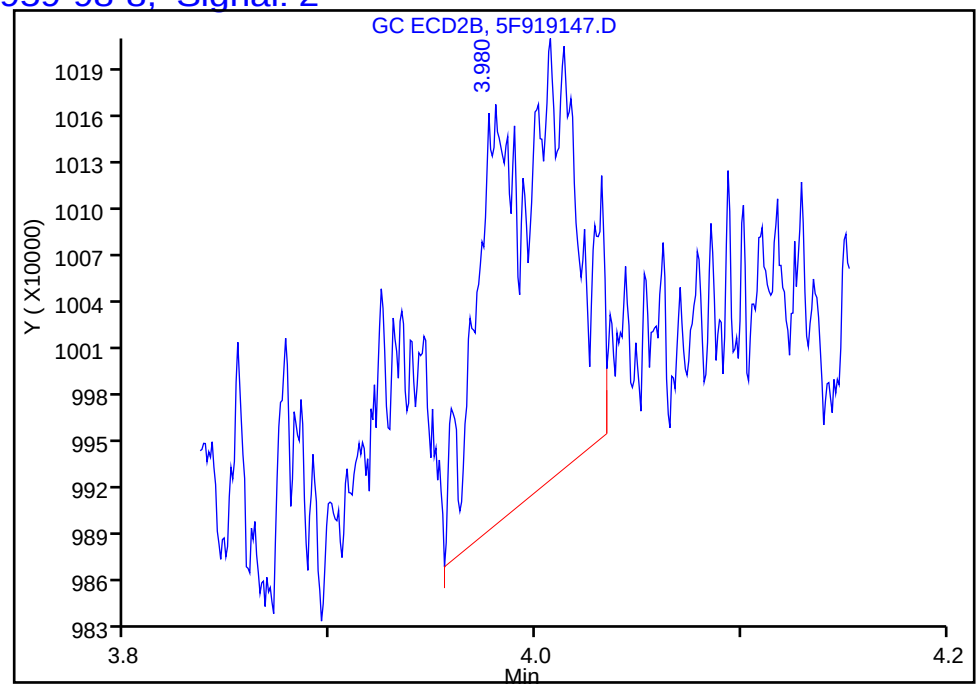
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919147.D				
Injection Date:	21-Mar-2018 09:08:58	Instrument ID:	CPESTGC5		
Lims ID:	MB 460-504710/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	41	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8, Signal: 2

RT: 3.98
Response: 810705
Amount: 0.896236



Reviewer: dalanginc, 21-Mar-2018 11:42:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-504832/1-A

Matrix: Solid Lab File ID: P4076562.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3546 Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0000(g) Date Analyzed: 03/22/2018 10:13

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

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505161 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		69-150
877-09-8	Tetrachloro-m-xylene	92		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D
Lims ID: MB 460-504832/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 10:13:04 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:35:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.565	1.558	0.007	42712669	100.0	100.0	
2	1.407	1.404	0.003	54620350	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							a
1	2.066	2.055	0.011	19635700	50.0	46.1	a
2	1.734	1.732	0.002	22974899	50.0	44.4	a
						RPD = 3.62	
$ 24 DCB Decachlorobiphenyl							
1	6.891	6.879	0.012	15048921	50.0	47.7	
2	5.794	5.784	0.010	21629963	50.0	43.7	
						RPD = 8.78	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

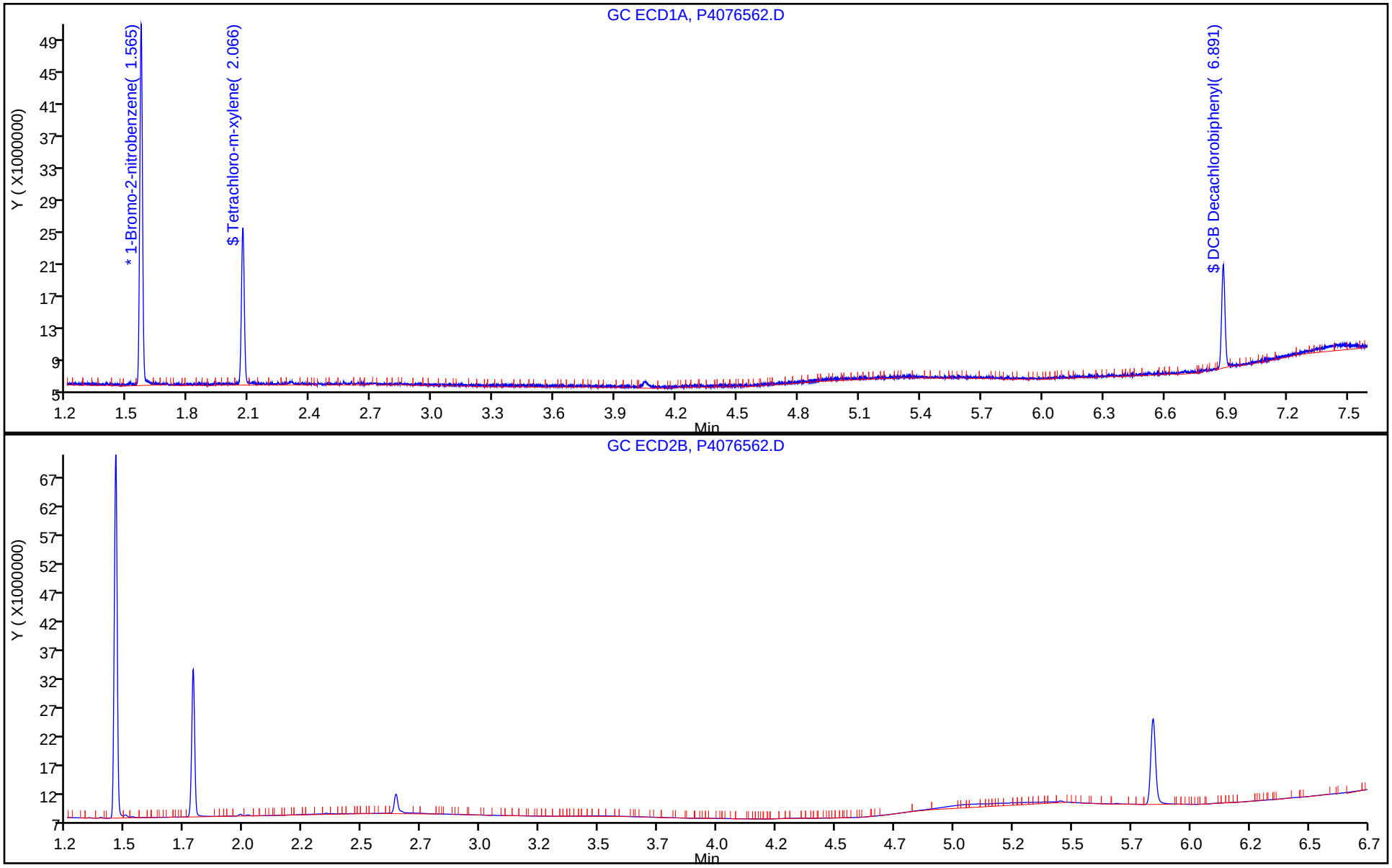
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 13:35:51 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D

Injection Date:	22-Mar-2018 10:13:04	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	MB 460-504832/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

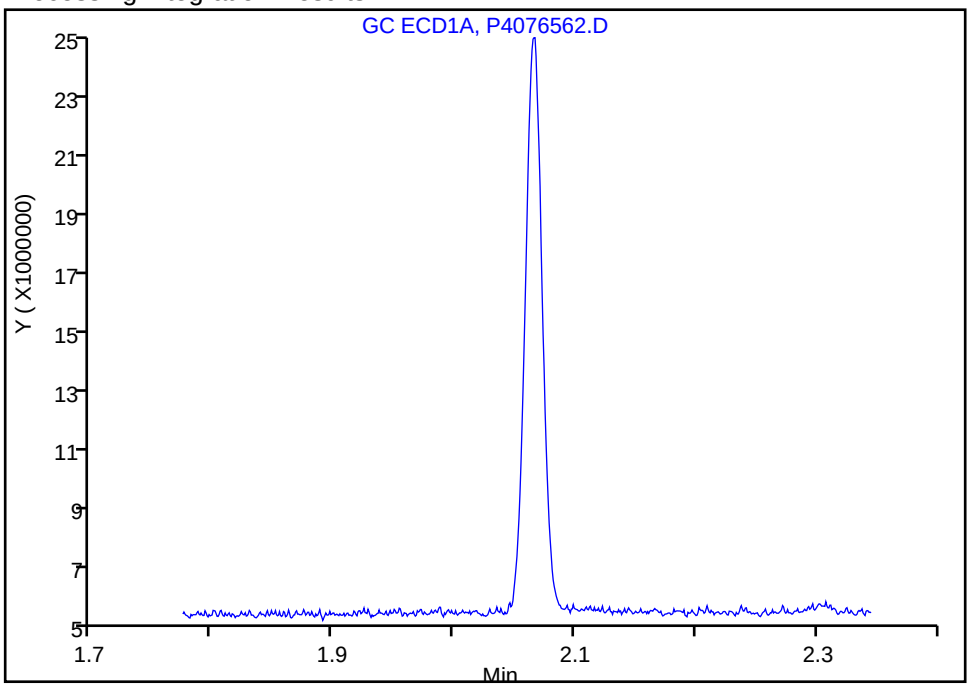
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D				
Injection Date:	22-Mar-2018 10:13:04	Instrument ID:	CPESTGC4		
Lims ID:	MB 460-504832/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

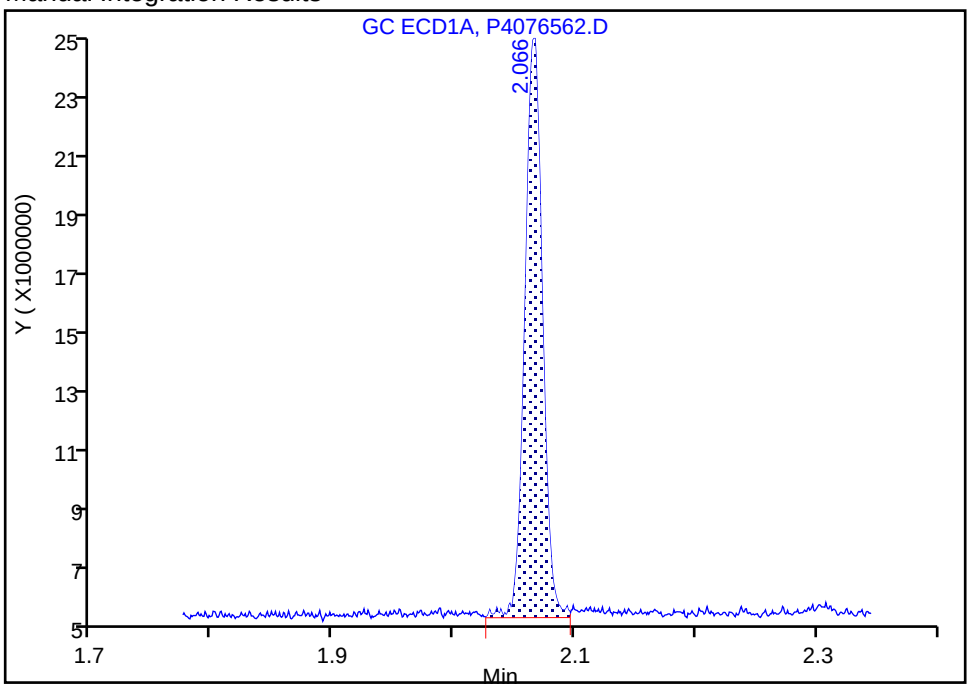
Not Detected
Expected RT: 2.06

Processing Integration Results



Manual Integration Results

RT: 2.07
Area: 19635700
Amount: 46.069642
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 10:34:11
Audit Action: Assigned Compound ID Audit Reason:

Report Date: 22-Mar-2018 13:35:51 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D

Injection Date: 22-Mar-2018 10:13:04 Instrument ID: CPESTGC4

Lims ID: MB 460-504832/1-A

Client ID:

Operator ID: ALS Bottle#: 6 Worklist Smp#: 6

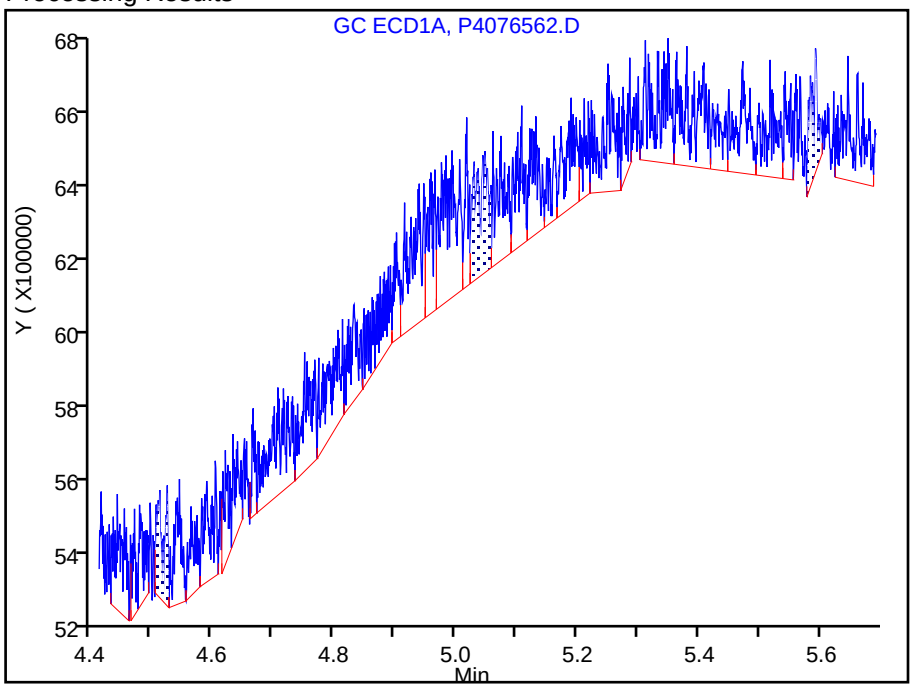
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

22 Toxaphene, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.52	4.51	214990	23.419957
4.98			
5.05	5.05	402760	14.917941
5.23			
5.59	5.59	207566	15.318964
		Average =	4.919397



Reviewer: kapoors, 22-Mar-2018 10:35:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504832/1-A

Matrix: Solid | Lab File ID: P4076562.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 10:13

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.0011	U	0.0067	0.0011
72-55-9	4,4'-DDE	0.00079	U	0.0067	0.00079
50-29-3	4,4'-DDT	0.0012	U	0.0067	0.0012
309-00-2	Aldrin	0.0010	U	0.0067	0.0010
319-84-6	alpha-BHC	0.00068	U	0.0020	0.00068
319-85-7	beta-BHC	0.00075	U	0.0020	0.00075
12789-03-6	Chlordane (technical)	0.016	U	0.067	0.016
319-86-8	delta-BHC	0.00041	U	0.0020	0.00041
60-57-1	Dieldrin	0.00087	U	0.0020	0.00087
959-98-8	Endosulfan I	0.0010	U	0.0067	0.0010
33213-65-9	Endosulfan II	0.0017	U	0.0067	0.0017
1031-07-8	Endosulfan sulfate	0.00084	U	0.0067	0.00084
72-20-8	Endrin	0.00096	U	0.0067	0.00096
7421-93-4	Endrin aldehyde	0.0016	U	0.0067	0.0016
53494-70-5	Endrin ketone	0.0013	U	0.0067	0.0013
58-89-9	gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062
76-44-8	Heptachlor	0.00079	U	0.0067	0.00079
1024-57-3	Heptachlor epoxide	0.0010	U	0.0067	0.0010
72-43-5	Methoxychlor	0.0015	U	0.0067	0.0015
8001-35-2	Toxaphene	0.024	U	0.067	0.024

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	87		69-150
877-09-8	Tetrachloro-m-xylene	89		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D
Lims ID: MB 460-504832/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 10:13:04 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:35:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.565	1.558	0.007	42712669	100.0	100.0	
2	1.407	1.404	0.003	54620350	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							a
1	2.066	2.055	0.011	19635700	50.0	46.1	a
2	1.734	1.732	0.002	22974899	50.0	44.4	a
						RPD = 3.62	
$ 24 DCB Decachlorobiphenyl							
1	6.891	6.879	0.012	15048921	50.0	47.7	
2	5.794	5.784	0.010	21629963	50.0	43.7	
						RPD = 8.78	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

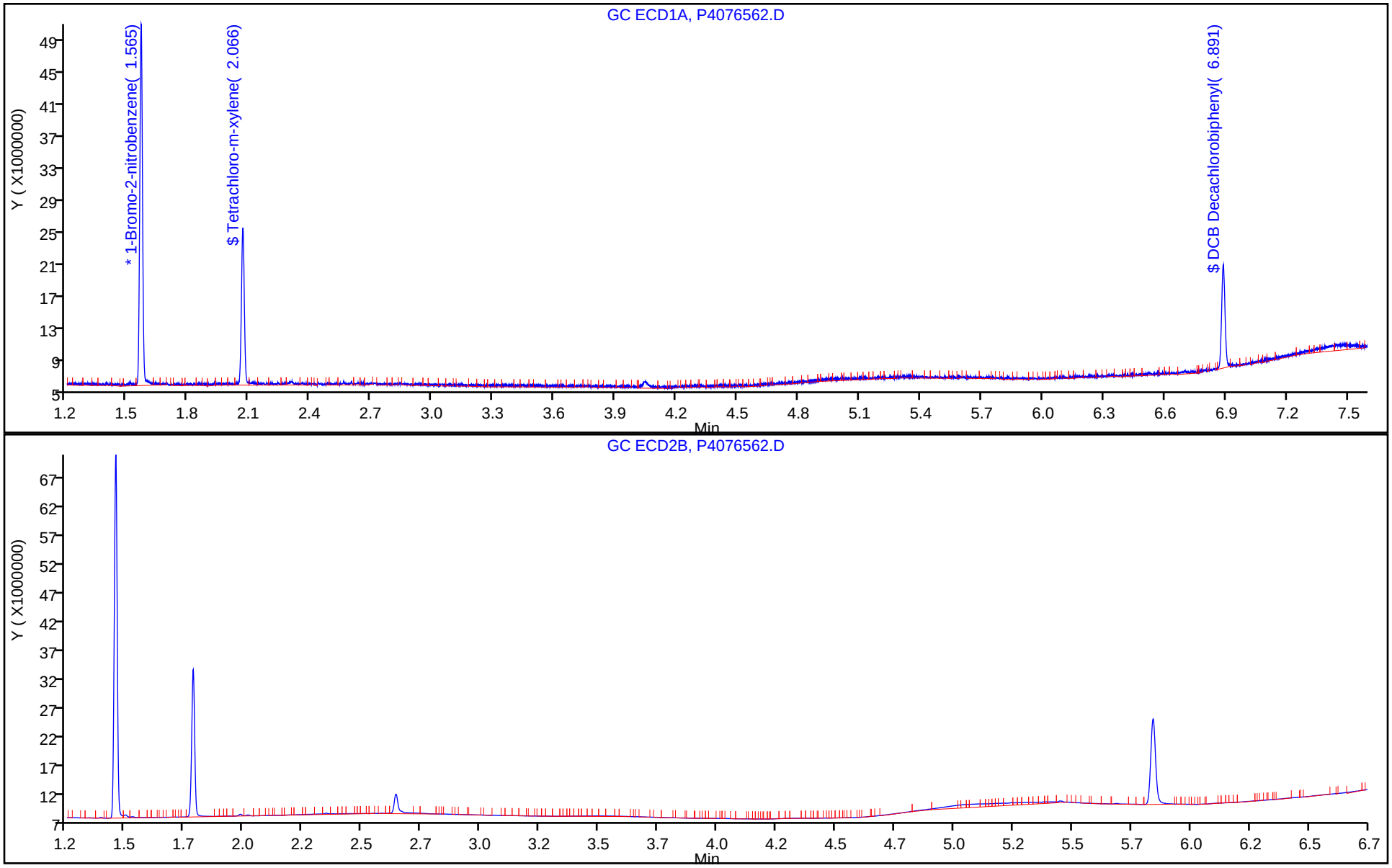
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 13:35:52 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D

Injection Date:	22-Mar-2018 10:13:04	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	MB 460-504832/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

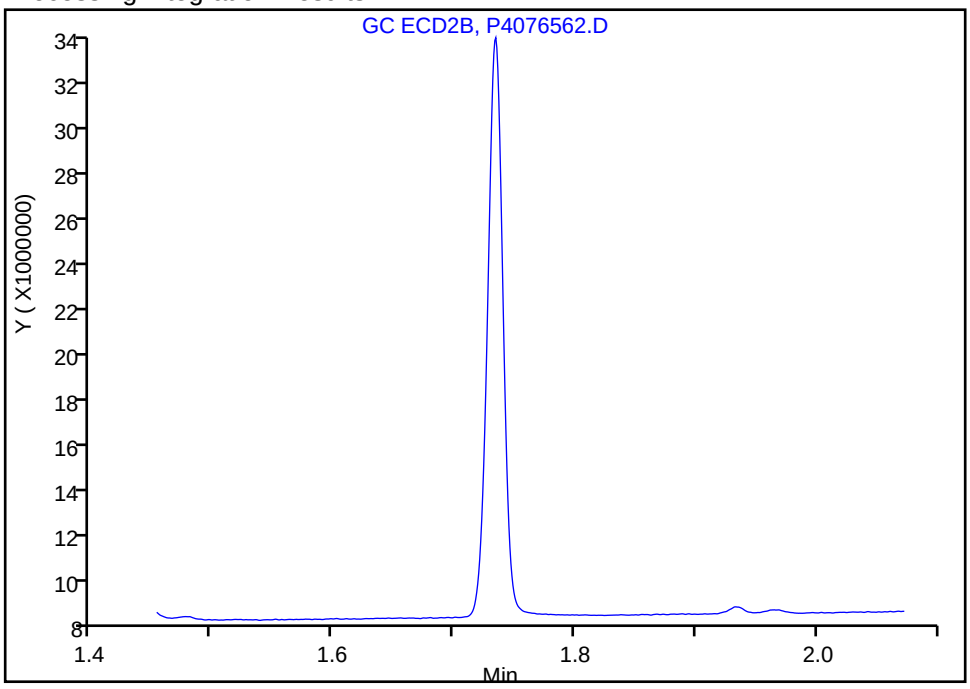
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D
Injection Date: 22-Mar-2018 10:13:04 Instrument ID: CPESTGC4
Lims ID: MB 460-504832/1-A
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

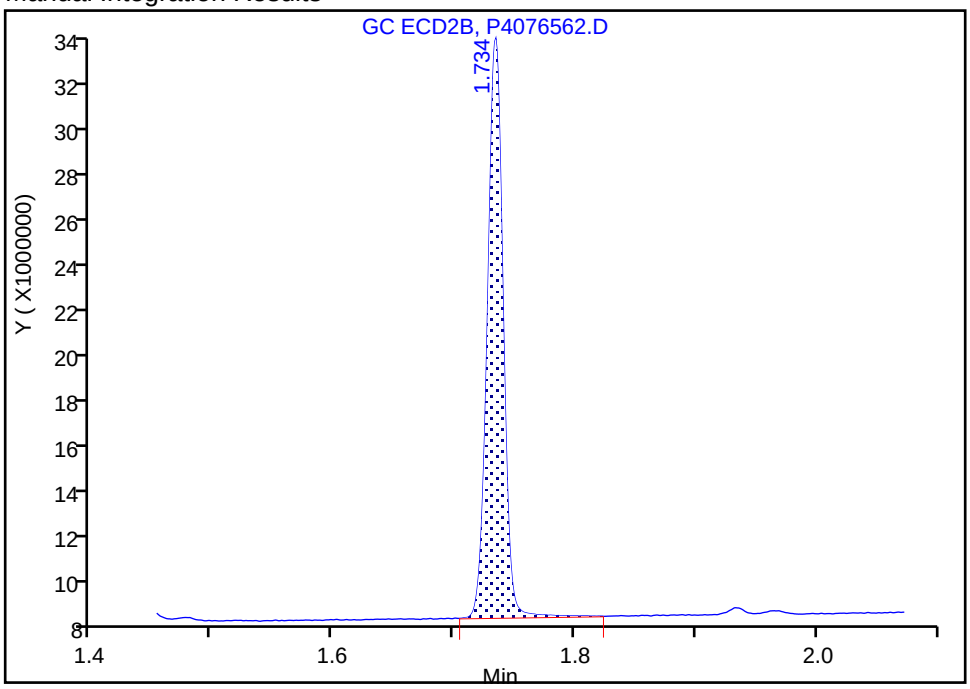
Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results

RT: 1.73
Area: 22974899
Amount: 44.430544
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 10:34:19
Audit Action: Assigned Compound ID Audit Reason:

User Disabled Compound Report

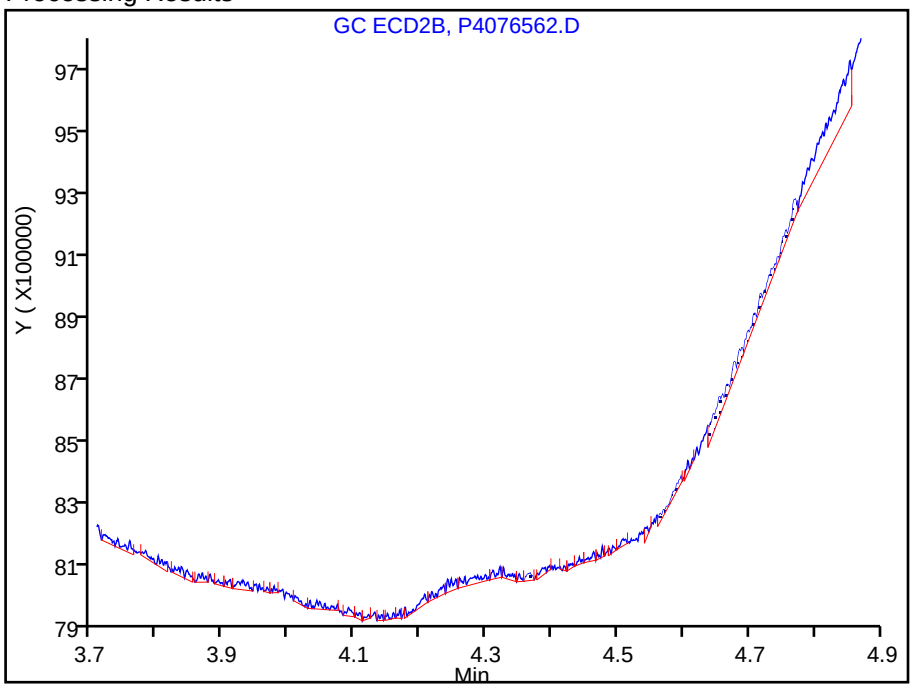
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076562.D
Injection Date: 22-Mar-2018 10:13:04 Instrument ID: CPESTGC4
Lims ID: MB 460-504832/1-A
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

22 Toxaphene, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.81			
4.37	4.37	13006	0.858532
4.59	4.60	32848	2.049875
4.69			
4.78	4.77	253464	11.849782
		Average =	4.919397



Reviewer: kapoors, 22-Mar-2018 10:35:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504710/2-A

Matrix: Water | Lab File ID: 5F919148.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:21

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.06		0.020	0.0060
72-55-9	4,4'-DDE	0.904		0.020	0.0020
50-29-3	4,4'-DDT	0.876		0.020	0.0040
309-00-2	Aldrin	0.892		0.020	0.0030
319-84-6	alpha-BHC	0.892		0.020	0.0070
319-85-7	beta-BHC	0.957		0.020	0.0040
319-86-8	delta-BHC	0.601		0.020	0.0050
60-57-1	Dieldrin	0.917		0.020	0.0030
959-98-8	Endosulfan I	0.957		0.020	0.0020
33213-65-9	Endosulfan II	0.951		0.020	0.0040
1031-07-8	Endosulfan sulfate	0.876		0.020	0.0060
72-20-8	Endrin	0.994		0.020	0.0040
7421-93-4	Endrin aldehyde	0.935		0.020	0.0080
53494-70-5	Endrin ketone	0.997		0.020	0.0080
58-89-9	gamma-BHC (Lindane)	0.899		0.020	0.012
76-44-8	Heptachlor	0.842		0.020	0.0030
1024-57-3	Heptachlor epoxide	0.902		0.020	0.0050
72-43-5	Methoxychlor	0.845		0.020	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		10-150
877-09-8	Tetrachloro-m-xylene	91		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919148.D
Lims ID: LCS 460-504710/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2018 09:21:51 ALS Bottle#: 42 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-007
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.663	1.660	0.003	116668864	100.0	100.0	
2	1.678	1.676	0.002	58543637	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.043	2.041	0.002	112179912	100.0	90.8	
2	2.058	2.056	0.002	60888755	100.0	100.3	
						RPD = 10.02	
15 alpha-BHC							
1	2.370	2.366	0.004	453175018	200.0	222.9	
2	2.383	2.379	0.004	204965131	200.0	216.4	
						RPD = 2.98	
2 gamma-BHC (Lindane)							
1	2.565	2.562	0.003	428870076	200.0	224.7	
2	2.578	2.574	0.004	195938295	200.0	218.9	
						RPD = 2.63	
6 beta-BHC							
1	2.612	2.608	0.004	192144385	200.0	239.1	
2	2.624	2.620	0.004	90968298	200.0	229.1	
						RPD = 4.29	
32 delta-BHC							
1	2.732	2.729	0.003	286596952	200.0	150.1	
2	2.745	2.741	0.004	132810401	200.0	143.4	
						RPD = 4.57	
18 Heptachlor							
1	2.878	2.874	0.004	444679660	200.0	210.5	
2	2.890	2.887	0.003	198008806	200.0	200.5	
						RPD = 4.87	
8 Aldrin							
1	3.100	3.096	0.004	427540114	200.0	223.0	
2	3.111	3.108	0.003	189230591	200.0	206.7	
						RPD = 7.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.589	3.585	0.004	408289810	200.0	225.4	
2	3.597	3.594	0.003	184846595	200.0	210.9	
						RPD = 6.67	
9 trans-Chlordane							
1	3.700	3.696	0.004	431467792	200.0	229.9	
2	3.708	3.704	0.004	192250000	200.0	218.4	
						RPD = 5.13	
23 cis-Chlordane							
1	3.825	3.822	0.003	412706042	200.0	227.3	
2	3.833	3.829	0.004	185554219	200.0	214.7	
						RPD = 5.74	
7 Endosulfan I							
1	3.882	3.878	0.004	444029509	200.0	239.1	
2	3.976	3.973	0.003	176980542	200.0	215.2	
						RPD = 10.55	
25 4,4'-DDE							
1	3.970	3.965	0.005	393483756	200.0	225.9	
2	3.889	3.884	0.005	195320494	200.0	223.0	
						RPD = 1.30	
30 Dieldrin							
1	4.222	4.218	0.004	452666558	200.0	229.2	
2	4.227	4.224	0.003	201803102	200.0	224.6	
						RPD = 2.06	
20 Endrin							
1	4.468	4.464	0.004	406383662	200.0	248.4	
2	4.471	4.469	0.002	183144408	200.0	228.0	
						RPD = 8.58	
16 4,4'-DDD							
1	4.517	4.513	0.004	400494676	200.0	263.9	
2	4.520	4.516	0.004	175649678	200.0	247.8	
						RPD = 6.31	
11 Endosulfan II							
1	4.687	4.684	0.003	391192800	200.0	237.8	
2	4.690	4.687	0.003	172234168	200.0	228.1	
						RPD = 4.17	
21 4,4'-DDT							
1	4.778	4.774	0.004	380708965	200.0	219.1	
2	4.780	4.777	0.003	159427380	200.0	206.6	
						RPD = 5.87	
5 Endrin aldehyde							
1	5.003	5.000	0.003	317809928	200.0	233.7	
2	5.003	5.001	0.002	132369975	200.0	225.8	
						RPD = 3.40	
3 Endosulfan sulfate							
1	5.116	5.114	0.002	205618338	200.0	218.9	
2	5.281	5.279	0.002	142291491	200.0	216.9	
						RPD = 0.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.213	5.210	0.003	269882045	200.0	211.2	
2	5.115	5.114	0.001	82628079	200.0	210.8	
						RPD = 0.15	
34 Mirex							
1	5.282	5.280	0.002	331329592	200.0	213.7	
2	5.214	5.213	0.001	106530857	200.0	200.8	
						RPD = 6.18	
13 Endrin ketone							
1	5.457	5.455	0.002	463665560	200.0	249.3	
2	5.455	5.454	0.001	172655935	200.0	230.1	
						RPD = 8.02	
$ 24 DCB Decachlorobiphenyl							
1	6.262	6.261	0.001	139326999	100.0	91.7	
2	6.255	6.255	0.000	57017263	100.0	88.3	
						RPD = 3.77	

Reagents:

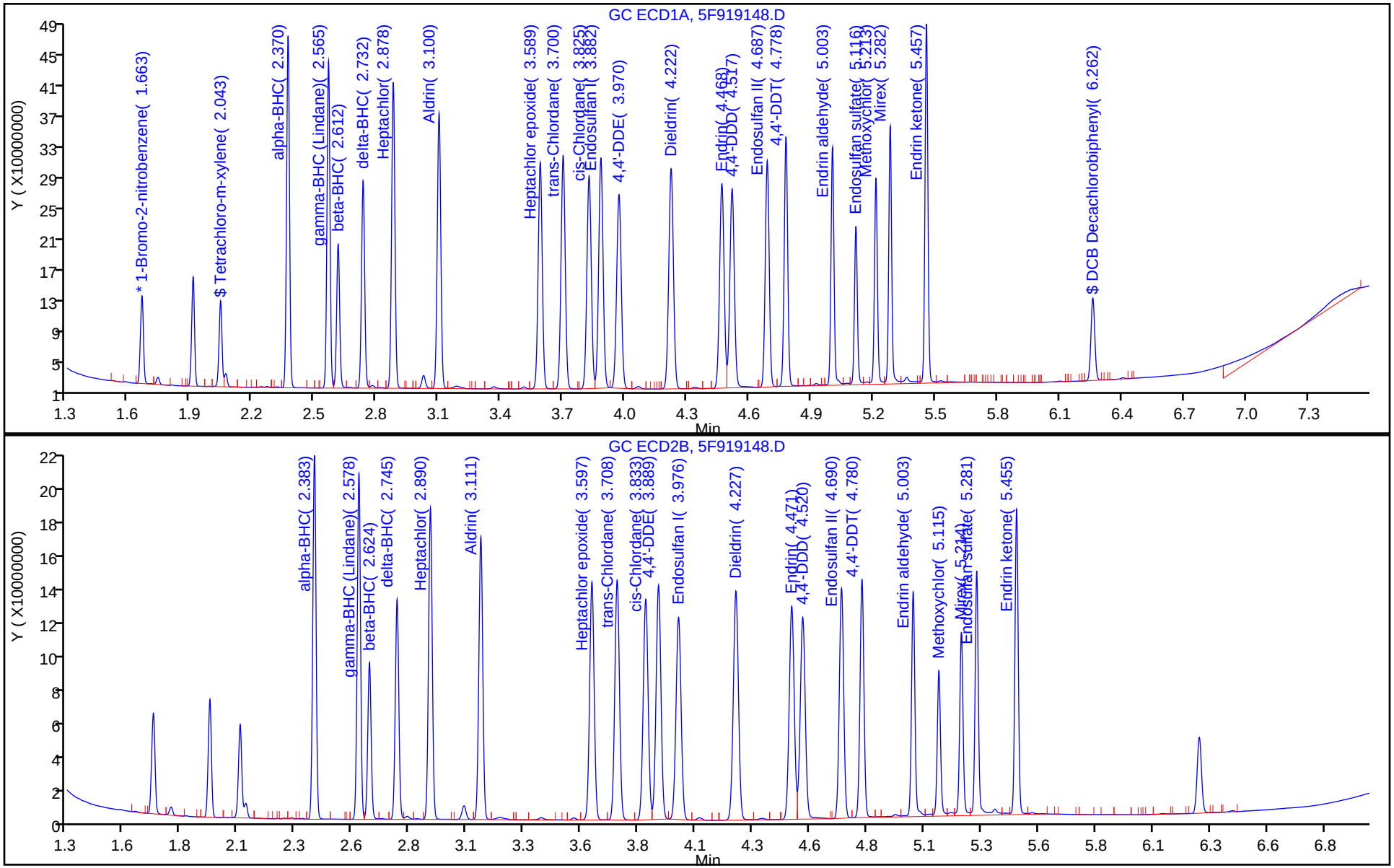
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:44:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919148.D

Injection Date:	21-Mar-2018 09:21:51	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	LCS 460-504710/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504710/2-A

Matrix: Water | Lab File ID: 5F919148.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:21

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*0.991*		*0.020*	*0.0060*
72-55-9	*4,4'-DDE*	*0.892*		*0.020*	*0.0020*
50-29-3	*4,4'-DDT*	*0.826*		*0.020*	*0.0040*
309-00-2	*Aldrin*	*0.827*		*0.020*	*0.0030*
319-84-6	*alpha-BHC*	*0.865*		*0.020*	*0.0070*
319-85-7	*beta-BHC*	*0.916*		*0.020*	*0.0040*
319-86-8	*delta-BHC*	*0.574*		*0.020*	*0.0050*
60-57-1	*Dieldrin*	*0.898*		*0.020*	*0.0030*
959-98-8	*Endosulfan I*	*0.861*		*0.020*	*0.0020*
33213-65-9	*Endosulfan II*	*0.912*		*0.020*	*0.0040*
1031-07-8	*Endosulfan sulfate*	*0.868*		*0.020*	*0.0060*
72-20-8	*Endrin*	*0.912*		*0.020*	*0.0040*
7421-93-4	*Endrin aldehyde*	*0.903*		*0.020*	*0.0080*
53494-70-5	*Endrin ketone*	*0.920*		*0.020*	*0.0080*
58-89-9	*gamma-BHC (Lindane)*	*0.876*		*0.020*	*0.012*
76-44-8	*Heptachlor*	*0.802*		*0.020*	*0.0030*
1024-57-3	*Heptachlor epoxide*	*0.844*		*0.020*	*0.0050*
72-43-5	*Methoxychlor*	*0.843*		*0.020*	*0.0040*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	88		10-150
877-09-8	Tetrachloro-m-xylene	100		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919148.D
Lims ID: LCS 460-504710/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2018 09:21:51 ALS Bottle#: 42 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-007
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.663	1.660	0.003	116668864	100.0	100.0	
2	1.678	1.676	0.002	58543637	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.043	2.041	0.002	112179912	100.0	90.8	
2	2.058	2.056	0.002	60888755	100.0	100.3	
						RPD = 10.02	
15 alpha-BHC							
1	2.370	2.366	0.004	453175018	200.0	222.9	
2	2.383	2.379	0.004	204965131	200.0	216.4	
						RPD = 2.98	
2 gamma-BHC (Lindane)							
1	2.565	2.562	0.003	428870076	200.0	224.7	
2	2.578	2.574	0.004	195938295	200.0	218.9	
						RPD = 2.63	
6 beta-BHC							
1	2.612	2.608	0.004	192144385	200.0	239.1	
2	2.624	2.620	0.004	90968298	200.0	229.1	
						RPD = 4.29	
32 delta-BHC							
1	2.732	2.729	0.003	286596952	200.0	150.1	
2	2.745	2.741	0.004	132810401	200.0	143.4	
						RPD = 4.57	
18 Heptachlor							
1	2.878	2.874	0.004	444679660	200.0	210.5	
2	2.890	2.887	0.003	198008806	200.0	200.5	
						RPD = 4.87	
8 Aldrin							
1	3.100	3.096	0.004	427540114	200.0	223.0	
2	3.111	3.108	0.003	189230591	200.0	206.7	
						RPD = 7.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.589	3.585	0.004	408289810	200.0	225.4	
2	3.597	3.594	0.003	184846595	200.0	210.9	
						RPD = 6.67	
9 trans-Chlordane							
1	3.700	3.696	0.004	431467792	200.0	229.9	
2	3.708	3.704	0.004	192250000	200.0	218.4	
						RPD = 5.13	
23 cis-Chlordane							
1	3.825	3.822	0.003	412706042	200.0	227.3	
2	3.833	3.829	0.004	185554219	200.0	214.7	
						RPD = 5.74	
7 Endosulfan I							
1	3.882	3.878	0.004	444029509	200.0	239.1	
2	3.976	3.973	0.003	176980542	200.0	215.2	
						RPD = 10.55	
25 4,4'-DDE							
1	3.970	3.965	0.005	393483756	200.0	225.9	
2	3.889	3.884	0.005	195320494	200.0	223.0	
						RPD = 1.30	
30 Dieldrin							
1	4.222	4.218	0.004	452666558	200.0	229.2	
2	4.227	4.224	0.003	201803102	200.0	224.6	
						RPD = 2.06	
20 Endrin							
1	4.468	4.464	0.004	406383662	200.0	248.4	
2	4.471	4.469	0.002	183144408	200.0	228.0	
						RPD = 8.58	
16 4,4'-DDD							
1	4.517	4.513	0.004	400494676	200.0	263.9	
2	4.520	4.516	0.004	175649678	200.0	247.8	
						RPD = 6.31	
11 Endosulfan II							
1	4.687	4.684	0.003	391192800	200.0	237.8	
2	4.690	4.687	0.003	172234168	200.0	228.1	
						RPD = 4.17	
21 4,4'-DDT							
1	4.778	4.774	0.004	380708965	200.0	219.1	
2	4.780	4.777	0.003	159427380	200.0	206.6	
						RPD = 5.87	
5 Endrin aldehyde							
1	5.003	5.000	0.003	317809928	200.0	233.7	
2	5.003	5.001	0.002	132369975	200.0	225.8	
						RPD = 3.40	
3 Endosulfan sulfate							
1	5.116	5.114	0.002	205618338	200.0	218.9	
2	5.281	5.279	0.002	142291491	200.0	216.9	
						RPD = 0.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.213	5.210	0.003	269882045	200.0	211.2	
2	5.115	5.114	0.001	82628079	200.0	210.8	
						RPD = 0.15	
34 Mirex							
1	5.282	5.280	0.002	331329592	200.0	213.7	
2	5.214	5.213	0.001	106530857	200.0	200.8	
						RPD = 6.18	
13 Endrin ketone							
1	5.457	5.455	0.002	463665560	200.0	249.3	
2	5.455	5.454	0.001	172655935	200.0	230.1	
						RPD = 8.02	
$ 24 DCB Decachlorobiphenyl							
1	6.262	6.261	0.001	139326999	100.0	91.7	
2	6.255	6.255	0.000	57017263	100.0	88.3	
						RPD = 3.77	

Reagents:

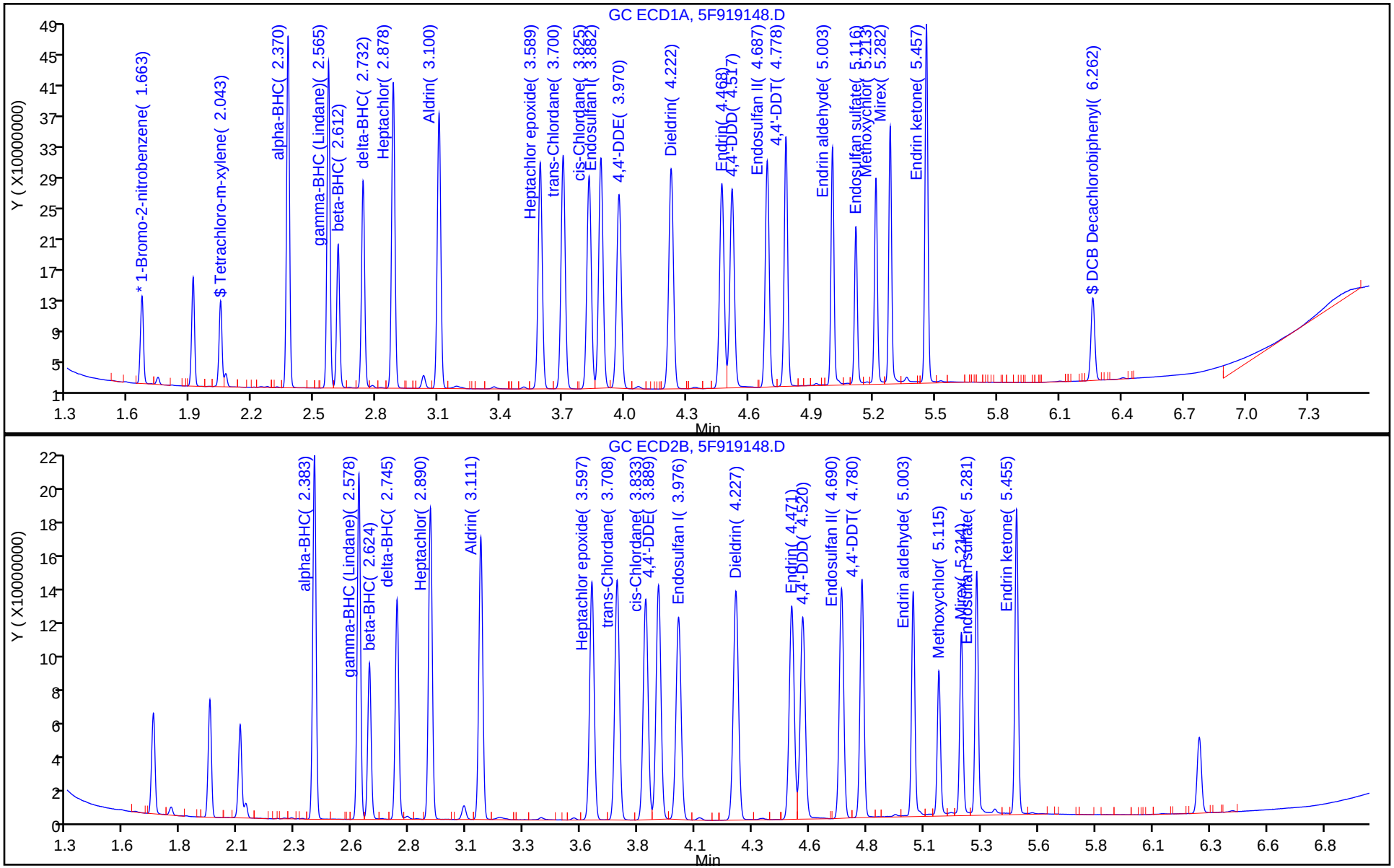
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:45:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919148.D

Injection Date:	21-Mar-2018 09:21:51	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	LCS 460-504710/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504832/2-A

Matrix: Solid | Lab File ID: P4076563.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 10:25

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.123		0.0067	0.0011
72-55-9	4,4'-DDE	0.129		0.0067	0.00079
50-29-3	*4,4'-DDT*	*0.118*		*0.0067*	*0.0012*
309-00-2	*Aldrin*	*0.119*		*0.0067*	*0.0010*
319-84-6	*alpha-BHC*	*0.125*		*0.0020*	*0.00068*
319-85-7	*beta-BHC*	*0.126*		*0.0020*	*0.00075*
319-86-8	*delta-BHC*	*0.123*		*0.0020*	*0.00041*
60-57-1	Dieldrin	0.127		0.0020	0.00087
959-98-8	*Endosulfan I*	*0.126*		*0.0067*	*0.0010*
33213-65-9	*Endosulfan II*	*0.122*		*0.0067*	*0.0017*
1031-07-8	Endosulfan sulfate	0.117		0.0067	0.00084
72-20-8	Endrin	0.126		0.0067	0.00096
7421-93-4	*Endrin aldehyde*	*0.118*		*0.0067*	*0.0016*
53494-70-5	Endrin ketone	0.127		0.0067	0.0013
58-89-9	*gamma-BHC (Lindane)*	*0.120*		*0.0020*	*0.00062*
76-44-8	*Heptachlor*	*0.121*		*0.0067*	*0.00079*
1024-57-3	*Heptachlor epoxide*	*0.124*		*0.0067*	*0.0010*
72-43-5	Methoxychlor	0.120		0.0067	0.0015

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		69-150
877-09-8	Tetrachloro-m-xylene	95		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076563.D
Lims ID: LCS 460-504832/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 10:25:16 ALS Bottle#: 7 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069118-007
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:46:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.562	1.558	0.004	44020978	100.0	100.0	
2	1.408	1.404	0.004	58391675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.060	2.055	0.005	20940199	50.0	47.7	
2	1.735	1.732	0.003	24854548	50.0	45.0	
						RPD = 5.85	
15 alpha-BHC							
1	2.450	2.446	0.004	119289993	200.0	188.2	
2	2.024	2.019	0.005	157275710	200.0	195.4	
						RPD = 3.79	
2 gamma-BHC (Lindane)							
1	2.691	2.685	0.006	106341805	200.0	180.7	
2	2.201	2.197	0.004	141705841	200.0	192.8	
						RPD = 6.52	
6 beta-BHC							
1	2.739	2.734	0.005	48481660	200.0	188.6	
2	2.245	2.241	0.004	61927892	200.0	194.5	
						RPD = 3.06	
32 delta-BHC							
1	2.963	2.955	0.008	110438916	200.0	184.0	
2	2.353	2.349	0.004	144697281	200.0	197.2	
						RPD = 6.94	
18 Heptachlor							
1	3.029	3.022	0.007	105950382	200.0	181.5	
2	2.482	2.478	0.004	137755689	200.0	191.1	
						RPD = 5.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.298	3.289	0.009	98191531	200.0	178.4	
2	2.666	2.662	0.004	126092052	200.0	188.9	
						RPD = 5.71	
12 Heptachlor epoxide							
1	3.825	3.815	0.010	92978888	200.0	185.6	
2	3.071	3.066	0.005	117285387	200.0	186.4	
						RPD = 0.40	
9 trans-Chlordane							
1	4.026	4.019	0.007	93480274	200.0	186.5	
2	3.163	3.158	0.005	117420671	200.0	187.7	
						RPD = 0.63	
23 cis-Chlordane							
1	4.191	4.182	0.009	89207330	200.0	188.2	
2	3.265	3.259	0.006	111674676	200.0	183.6	
						RPD = 2.48	
7 Endosulfan I							
1	4.264	4.253	0.011	86458313	200.0	188.3	
2	3.376	3.370	0.006	112842814	200.0	190.1	
						RPD = 0.96	
25 4,4'-DDE							
1	4.364	4.353	0.011	91331478	200.0	193.1	
2	3.322	3.316	0.006	110275233	200.0	182.7	
						RPD = 5.51	
30 Dieldrin							
1	4.562	4.551	0.011	95896446	200.0	190.9	
2	3.580	3.574	0.006	124491440	200.0	189.9	
						RPD = 0.55	
20 Endrin							
1	4.843	4.835	0.008	83947848	200.0	188.9	
2	3.796	3.789	0.007	114321535	200.0	188.5	
						RPD = 0.21	
16 4,4'-DDD							
1	4.919	4.913	0.006	73004112	200.0	184.4	
2	3.860	3.854	0.006	96921775	200.0	184.1	
						RPD = 0.14	
11 Endosulfan II							
1	5.000	4.994	0.006	78222625	200.0	182.6	
2	4.022	4.015	0.007	105251803	200.0	183.8	
						RPD = 0.61	
21 4,4'-DDT							
1	5.145	5.139	0.006	74394449	200.0	177.7	
2	4.162	4.154	0.008	99024932	200.0	181.4	
						RPD = 2.02	
5 Endrin aldehyde							
1	5.233	5.226	0.007	63618826	200.0	176.6	
2	4.469	4.462	0.007	84463875	200.0	176.8	
						RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.420	5.414	0.006	72564700	200.0	175.4	
2	4.863	4.858	0.005	102418079	200.0	175.3	
						RPD = 0.10	
10 Methoxychlor							
1	5.633	5.625	0.008	41008634	200.0	179.5	
2	4.683	4.676	0.007	50386839	200.0	164.7	
						RPD = 8.60	
34 Mirex							
1	5.800	5.792	0.008	48022285	200.0	164.1	
2	4.784	4.779	0.005	68146354	200.0	162.4	
						RPD = 1.03	
13 Endrin ketone							
1	5.832	5.824	0.008	88423731	200.0	189.8	
2	5.055	5.051	0.004	116298520	200.0	176.0	
						RPD = 7.55	
$ 24 DCB Decachlorobiphenyl							
1	6.885	6.879	0.006	16092293	50.0	49.5	
2	5.789	5.784	0.005	24272339	50.0	45.9	
						RPD = 7.62	

Reagents:

SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 13:35:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076563.D

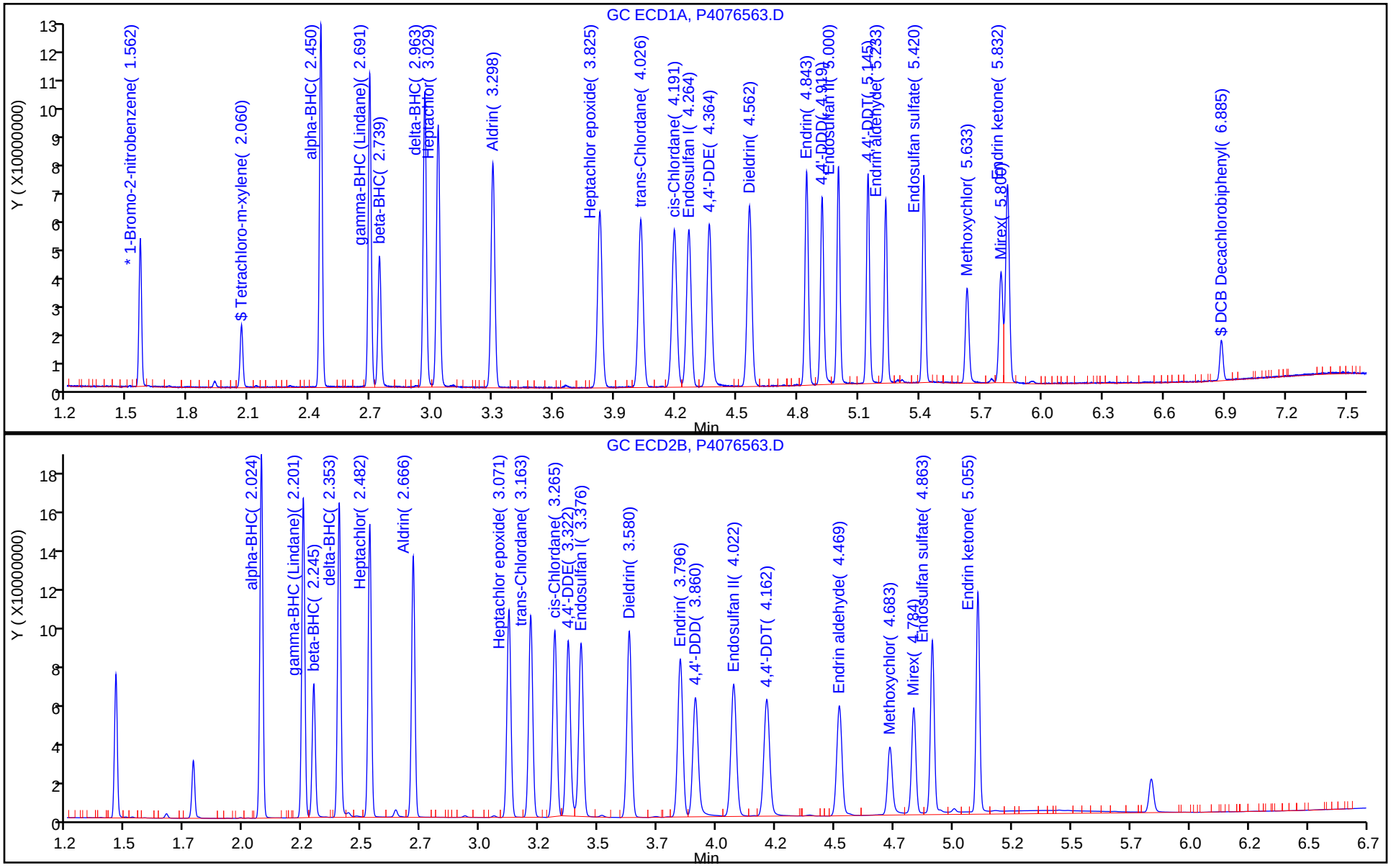
Injection Date: 22-Mar-2018 10:25:16 Instrument ID: CPESTGC4 Operator ID:

Lims ID: LCS 460-504832/2-A Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504832/2-A

Matrix: Solid | Lab File ID: P4076563.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 10:25

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*0.123*		*0.0067*	*0.0011*
72-55-9	*4,4'-DDE*	*0.122*		*0.0067*	*0.00079*
50-29-3	4,4'-DDT	0.121		0.0067	0.0012
309-00-2	Aldrin	0.126		0.0067	0.0010
319-84-6	alpha-BHC	0.130		0.0020	0.00068
319-85-7	beta-BHC	0.130		0.0020	0.00075
319-86-8	delta-BHC	0.131		0.0020	0.00041
60-57-1	*Dieldrin*	*0.127*		*0.0020*	*0.00087*
959-98-8	Endosulfan I	0.127		0.0067	0.0010
33213-65-9	Endosulfan II	0.123		0.0067	0.0017
1031-07-8	*Endosulfan sulfate*	*0.117*		*0.0067*	*0.00084*
72-20-8	*Endrin*	*0.126*		*0.0067*	*0.00096*
7421-93-4	Endrin aldehyde	0.118		0.0067	0.0016
53494-70-5	*Endrin ketone*	*0.117*		*0.0067*	*0.0013*
58-89-9	gamma-BHC (Lindane)	0.129		0.0020	0.00062
76-44-8	Heptachlor	0.127		0.0067	0.00079
1024-57-3	Heptachlor epoxide	0.124		0.0067	0.0010
72-43-5	*Methoxychlor*	*0.110*		*0.0067*	*0.0015*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		69-150
877-09-8	Tetrachloro-m-xylene	90		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076563.D
Lims ID: LCS 460-504832/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 10:25:16 ALS Bottle#: 7 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069118-007
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 13:35:47 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 10:46:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.562	1.558	0.004	44020978	100.0	100.0	
2	1.408	1.404	0.004	58391675	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.060	2.055	0.005	20940199	50.0	47.7	
2	1.735	1.732	0.003	24854548	50.0	45.0	
						RPD = 5.85	
15 alpha-BHC							
1	2.450	2.446	0.004	119289993	200.0	188.2	
2	2.024	2.019	0.005	157275710	200.0	195.4	
						RPD = 3.79	
2 gamma-BHC (Lindane)							
1	2.691	2.685	0.006	106341805	200.0	180.7	
2	2.201	2.197	0.004	141705841	200.0	192.8	
						RPD = 6.52	
6 beta-BHC							
1	2.739	2.734	0.005	48481660	200.0	188.6	
2	2.245	2.241	0.004	61927892	200.0	194.5	
						RPD = 3.06	
32 delta-BHC							
1	2.963	2.955	0.008	110438916	200.0	184.0	
2	2.353	2.349	0.004	144697281	200.0	197.2	
						RPD = 6.94	
18 Heptachlor							
1	3.029	3.022	0.007	105950382	200.0	181.5	
2	2.482	2.478	0.004	137755689	200.0	191.1	
						RPD = 5.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.298	3.289	0.009	98191531	200.0	178.4	
2	2.666	2.662	0.004	126092052	200.0	188.9	
						RPD = 5.71	
12 Heptachlor epoxide							
1	3.825	3.815	0.010	92978888	200.0	185.6	
2	3.071	3.066	0.005	117285387	200.0	186.4	
						RPD = 0.40	
9 trans-Chlordane							
1	4.026	4.019	0.007	93480274	200.0	186.5	
2	3.163	3.158	0.005	117420671	200.0	187.7	
						RPD = 0.63	
23 cis-Chlordane							
1	4.191	4.182	0.009	89207330	200.0	188.2	
2	3.265	3.259	0.006	111674676	200.0	183.6	
						RPD = 2.48	
7 Endosulfan I							
1	4.264	4.253	0.011	86458313	200.0	188.3	
2	3.376	3.370	0.006	112842814	200.0	190.1	
						RPD = 0.96	
25 4,4'-DDE							
1	4.364	4.353	0.011	91331478	200.0	193.1	
2	3.322	3.316	0.006	110275233	200.0	182.7	
						RPD = 5.51	
30 Dieldrin							
1	4.562	4.551	0.011	95896446	200.0	190.9	
2	3.580	3.574	0.006	124491440	200.0	189.9	
						RPD = 0.55	
20 Endrin							
1	4.843	4.835	0.008	83947848	200.0	188.9	
2	3.796	3.789	0.007	114321535	200.0	188.5	
						RPD = 0.21	
16 4,4'-DDD							
1	4.919	4.913	0.006	73004112	200.0	184.4	
2	3.860	3.854	0.006	96921775	200.0	184.1	
						RPD = 0.14	
11 Endosulfan II							
1	5.000	4.994	0.006	78222625	200.0	182.6	
2	4.022	4.015	0.007	105251803	200.0	183.8	
						RPD = 0.61	
21 4,4'-DDT							
1	5.145	5.139	0.006	74394449	200.0	177.7	
2	4.162	4.154	0.008	99024932	200.0	181.4	
						RPD = 2.02	
5 Endrin aldehyde							
1	5.233	5.226	0.007	63618826	200.0	176.6	
2	4.469	4.462	0.007	84463875	200.0	176.8	
						RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.420	5.414	0.006	72564700	200.0	175.4	
2	4.863	4.858	0.005	102418079	200.0	175.3	
						RPD = 0.10	
10 Methoxychlor							
1	5.633	5.625	0.008	41008634	200.0	179.5	
2	4.683	4.676	0.007	50386839	200.0	164.7	
						RPD = 8.60	
34 Mirex							
1	5.800	5.792	0.008	48022285	200.0	164.1	
2	4.784	4.779	0.005	68146354	200.0	162.4	
						RPD = 1.03	
13 Endrin ketone							
1	5.832	5.824	0.008	88423731	200.0	189.8	
2	5.055	5.051	0.004	116298520	200.0	176.0	
						RPD = 7.55	
$ 24 DCB Decachlorobiphenyl							
1	6.885	6.879	0.006	16092293	50.0	49.5	
2	5.789	5.784	0.005	24272339	50.0	45.9	
						RPD = 7.62	

Reagents:

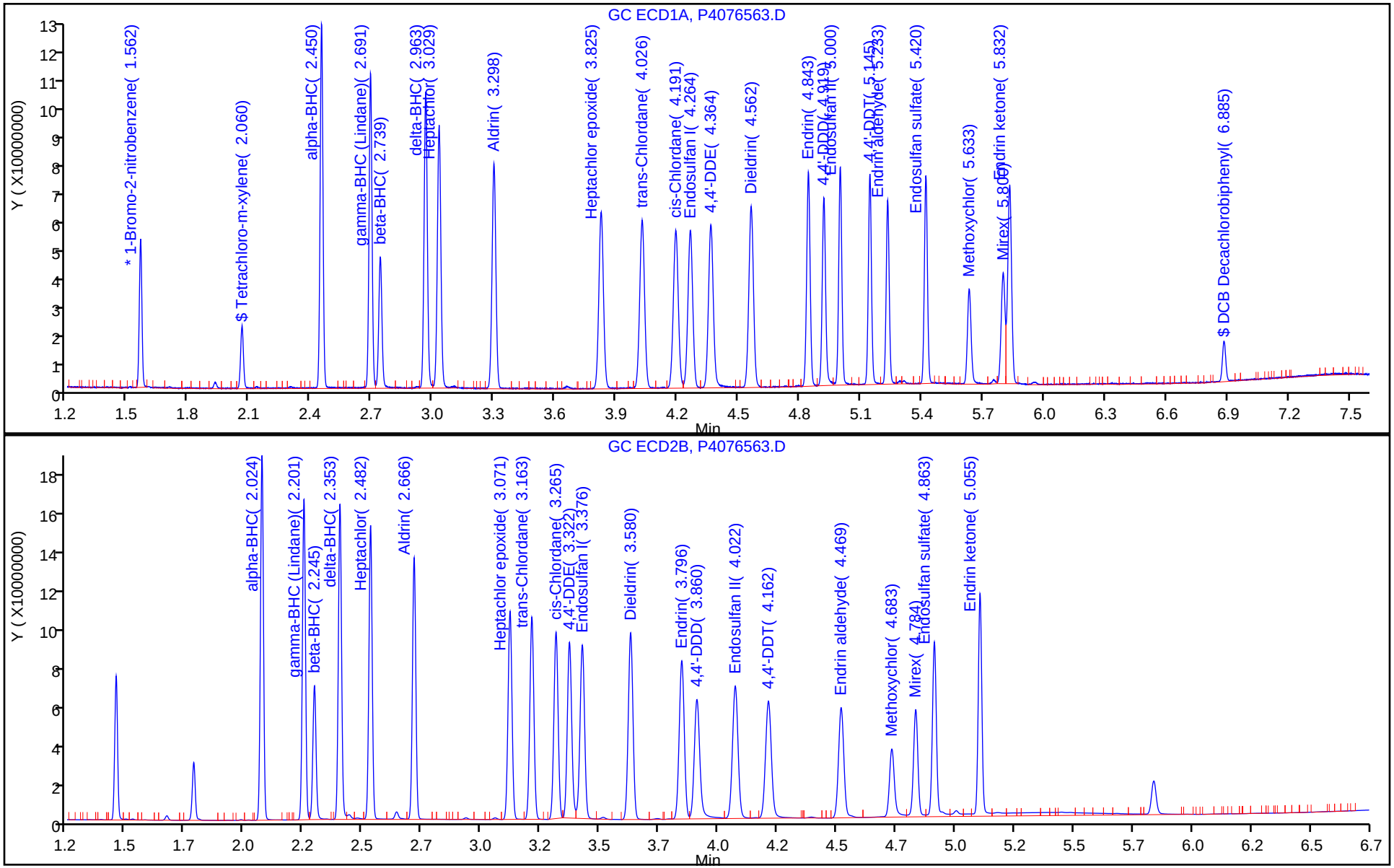
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 13:35:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076563.D

Injection Date:	22-Mar-2018 10:25:16	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LCS 460-504832/2-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152194-I-4-A MS

Matrix: Water | Lab File ID: 5F919149.D

Analysis Method: 8081B | Date Collected: 03/14/2018 12:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:34

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.13		0.020	0.0060
72-55-9	4,4'-DDE	1.01		0.020	0.0020
50-29-3	4,4'-DDT	1.01		0.020	0.0040
309-00-2	Aldrin	0.922		0.020	0.0030
319-84-6	alpha-BHC	1.01		0.020	0.0070
319-85-7	beta-BHC	1.07		0.020	0.0040
12789-03-6	*Chlordane (technical)*	*0.055*	*U*	*0.50*	*0.055*
319-86-8	delta-BHC	0.666		0.020	0.0050
60-57-1	Dieldrin	1.02		0.020	0.0030
959-98-8	Endosulfan I	1.04		0.020	0.0020
33213-65-9	Endosulfan II	1.07		0.020	0.0040
1031-07-8	Endosulfan sulfate	1.05		0.020	0.0060
72-20-8	Endrin	1.14		0.020	0.0040
7421-93-4	Endrin aldehyde	0.996		0.020	0.0080
53494-70-5	Endrin ketone	1.11		0.020	0.0080
58-89-9	gamma-BHC (Lindane)	1.02		0.020	0.012
76-44-8	Heptachlor	0.889		0.020	0.0030
1024-57-3	Heptachlor epoxide	1.00		0.020	0.0050
72-43-5	*Methoxychlor*	*0.906*		*0.020*	*0.0040*
8001-35-2	*Toxaphene*	*0.11*	*U*	*0.50*	*0.11*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		10-150
877-09-8	Tetrachloro-m-xylene	90		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D
Lims ID: 460-152194-I-4-A MS
Client ID: SW-04
Sample Type: MS
Inject. Date: 21-Mar-2018 09:34:38 ALS Bottle#: 43 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-008
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: dalanginc Date: 21-Mar-2018 11:44:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.663	1.660	0.003	106746238	100.0	100.0	
2	1.679	1.676	0.003	53268044	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.043	2.041	0.002	101909701	100.0	90.1	
2	2.058	2.056	0.002	55944694	100.0	101.3	
						RPD = 11.70	
15 alpha-BHC							
1	2.369	2.366	0.003	470186339	200.0	252.8	
2	2.384	2.379	0.005	211215915	200.0	245.0	
						RPD = 3.11	
2 gamma-BHC (Lindane)							
1	2.564	2.562	0.002	445762603	200.0	255.3	
2	2.578	2.574	0.004	204683562	200.0	251.3	
						RPD = 1.58	
6 beta-BHC							
1	2.611	2.608	0.003	197271070	200.0	268.3	
2	2.624	2.620	0.004	94511000	200.0	261.6	
						RPD = 2.55	
32 delta-BHC							
1	2.732	2.729	0.003	290968651	200.0	166.6	
2	2.744	2.741	0.003	135902150	200.0	161.3	
						RPD = 3.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Heptachlor							
1	2.878	2.874	0.004	429507677	200.0	222.2	
2	2.890	2.887	0.003	192668698	200.0	214.4	
						RPD = 3.58	
8 Aldrin							
1	3.099	3.096	0.003	404234849	200.0	230.4	
2	3.111	3.108	0.003	180453023	200.0	216.6	
						RPD = 6.18	
12 Heptachlor epoxide							
1	3.589	3.585	0.004	415975412	200.0	251.0	
2	3.598	3.594	0.004	187269703	200.0	234.8	
						RPD = 6.67	
9 trans-Chlordane							
1	3.699	3.696	0.003	433781857	200.0	252.6	
2	3.708	3.704	0.004	192718459	200.0	240.7	
						RPD = 4.86	
23 cis-Chlordane							
1	3.825	3.822	0.003	415730516	200.0	250.3	
2	3.833	3.829	0.004	186958434	200.0	237.7	
						RPD = 5.16	
7 Endosulfan I							
1	3.882	3.878	0.004	441806372	200.0	260.1	
2	3.977	3.973	0.004	180676897	200.0	241.4	
						RPD = 7.43	
25 4,4'-DDE							
1	3.969	3.965	0.004	402819266	200.0	252.8	
2	3.889	3.884	0.005	194682213	200.0	244.3	
						RPD = 3.41	
30 Dieldrin							
1	4.222	4.218	0.004	462494300	200.0	256.0	
2	4.228	4.224	0.004	205560200	200.0	251.4	
						RPD = 1.81	
20 Endrin							
1	4.468	4.464	0.004	426538206	200.0	285.0	
2	4.472	4.469	0.003	190899999	200.0	261.2	
						RPD = 8.72	
16 4,4'-DDD							
1	4.516	4.513	0.003	390833271	200.0	281.5	
2	4.519	4.516	0.003	172118679	200.0	266.9	
						RPD = 5.34	
11 Endosulfan II							
1	4.686	4.684	0.002	401502118	200.0	266.8	
2	4.689	4.687	0.002	175684741	200.0	255.7	
						RPD = 4.23	
21 4,4'-DDT							
1	4.777	4.774	0.003	401824041	200.0	252.7	
2	4.779	4.777	0.002	170526979	200.0	242.8	
						RPD = 3.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Endrin aldehyde							
1	5.002	5.000	0.002	309874043	200.0	249.0	
2	5.003	5.001	0.002	130886906	200.0	245.4	
						RPD = 1.44	
3 Endosulfan sulfate							
1	5.115	5.114	0.001	224873105	200.0	261.7	
2	5.282	5.279	0.003	145513591	200.0	243.8	
						RPD = 7.08	
10 Methoxychlor							
1	5.212	5.210	0.002	264957454	200.0	226.6	
2	5.116	5.114	0.002	94111818	200.0	263.9	
						RPD = 15.23	
34 Mirex							
1	5.281	5.280	0.001	346703568	200.0	244.4	
2	5.214	5.213	0.001	107512827	200.0	222.8	
						RPD = 9.24	
13 Endrin ketone							
1	5.456	5.455	0.001	473426238	200.0	278.2	
2	5.456	5.454	0.002	178817570	200.0	261.9	
						RPD = 6.05	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	130111315	100.0	93.6	
2	6.255	6.255	0.000	52705917	100.0	89.7	
						RPD = 4.23	

Reagents:

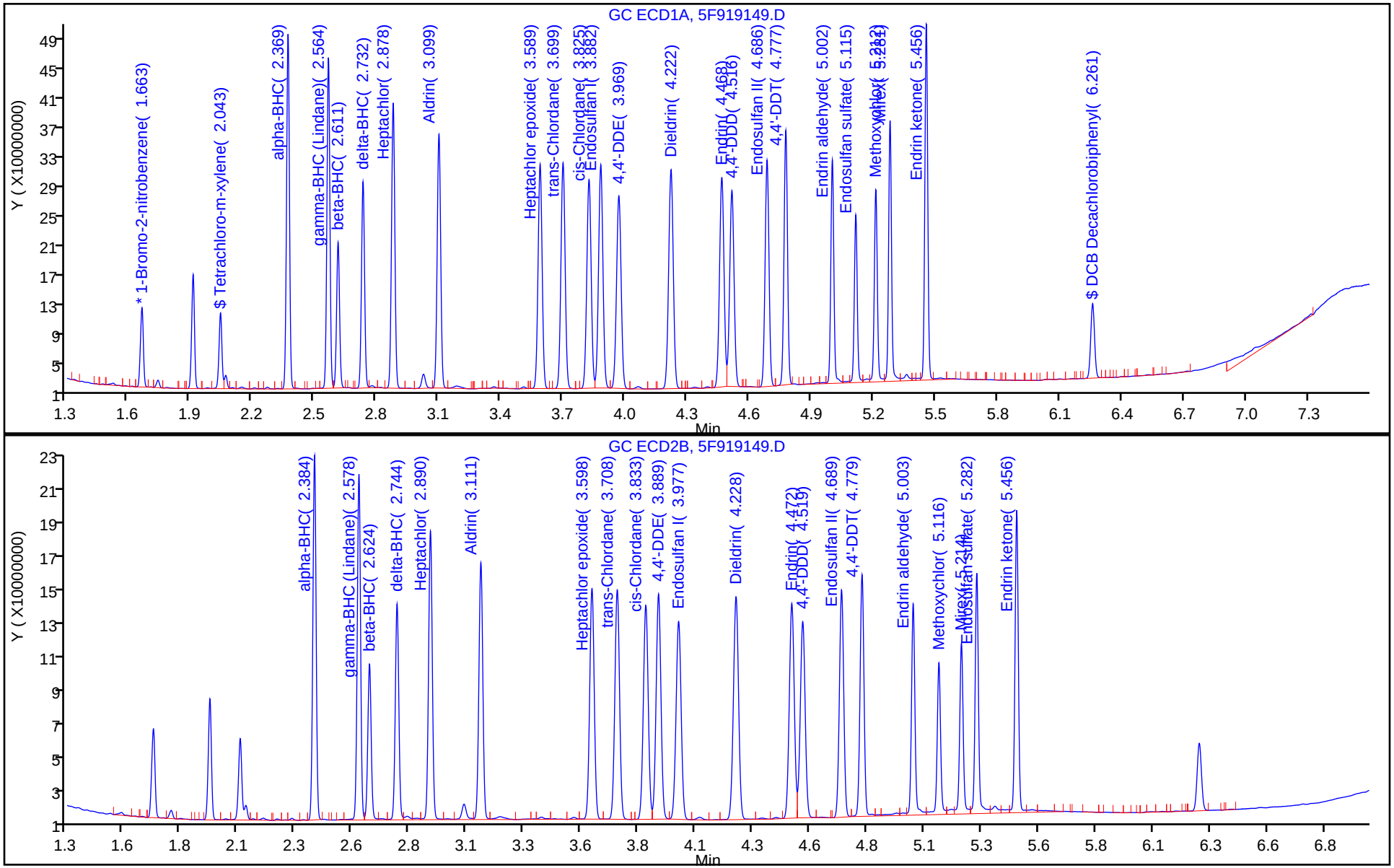
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:45:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D

Injection Date:	21-Mar-2018 09:34:38	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152194-I-4-A MS			Worklist Smp#:	8
Client ID:	SW-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Report Date: 21-Mar-2018 11:45:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

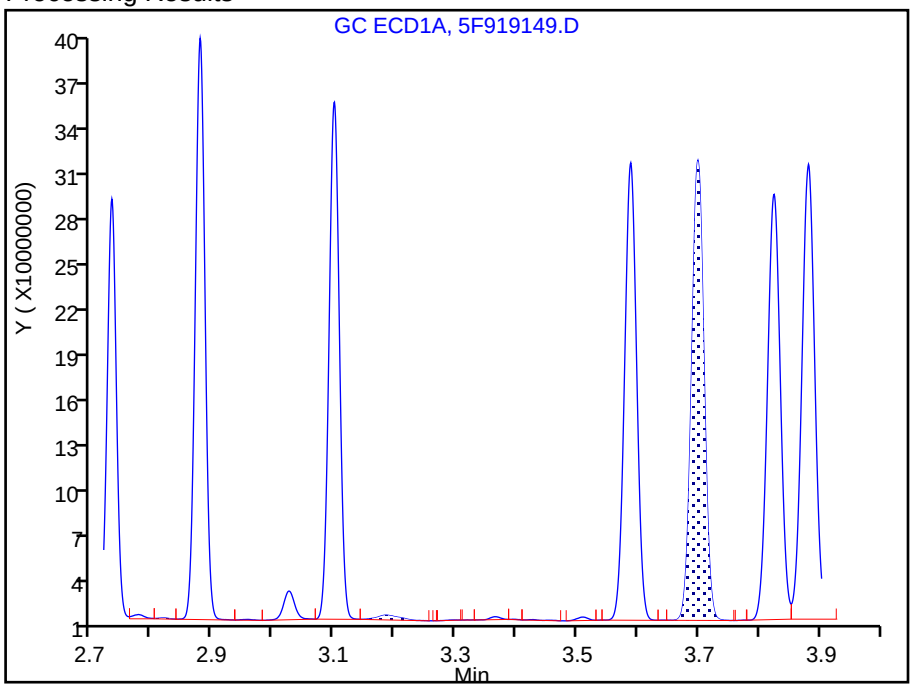
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D				
Injection Date:	21-Mar-2018 09:34:38	Instrument ID:	CPESTGC5		
Lims ID:	460-152194-I-4-A MS				
Client ID:	SW-04				
Operator ID:		ALS Bottle#:	43	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		

31 Chlordane (technical), Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.82	2.82	834007	19.107847
3.19	3.18	7974193	158.3321
3.53			
3.70	3.70	433781857	2307.3089
3.80			
		Average =	813.7742



Reviewer: dalanginc, 21-Mar-2018 11:44:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152194-I-4-A MS

Matrix: Water | Lab File ID: 5F919149.D

Analysis Method: 8081B | Date Collected: 03/14/2018 12:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:34

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*1.07*		*0.020*	*0.0060*
72-55-9	*4,4'-DDE*	*0.977*		*0.020*	*0.0020*
50-29-3	*4,4'-DDT*	*0.971*		*0.020*	*0.0040*
309-00-2	*Aldrin*	*0.866*		*0.020*	*0.0030*
319-84-6	*alpha-BHC*	*0.980*		*0.020*	*0.0070*
319-85-7	*beta-BHC*	*1.05*		*0.020*	*0.0040*
12789-03-6	Chlordane (technical)	0.055	U	0.50	0.055
319-86-8	*delta-BHC*	*0.645*		*0.020*	*0.0050*
60-57-1	*Dieldrin*	*1.01*		*0.020*	*0.0030*
959-98-8	*Endosulfan I*	*0.966*		*0.020*	*0.0020*
33213-65-9	*Endosulfan II*	*1.02*		*0.020*	*0.0040*
1031-07-8	*Endosulfan sulfate*	*0.975*		*0.020*	*0.0060*
72-20-8	*Endrin*	*1.04*		*0.020*	*0.0040*
7421-93-4	*Endrin aldehyde*	*0.982*		*0.020*	*0.0080*
53494-70-5	*Endrin ketone*	*1.05*		*0.020*	*0.0080*
58-89-9	*gamma-BHC (Lindane)*	*1.01*		*0.020*	*0.012*
76-44-8	*Heptachlor*	*0.858*		*0.020*	*0.0030*
1024-57-3	*Heptachlor epoxide*	*0.939*		*0.020*	*0.0050*
72-43-5	Methoxychlor	1.06		0.020	0.0040
8001-35-2	Toxaphene	0.11	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	90		10-150
877-09-8	Tetrachloro-m-xylene	101		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D
Lims ID: 460-152194-I-4-A MS
Client ID: SW-04
Sample Type: MS
Inject. Date: 21-Mar-2018 09:34:38 ALS Bottle#: 43 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-008
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: dalanginc Date: 21-Mar-2018 11:44:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.663	1.660	0.003	106746238	100.0	100.0	
2	1.679	1.676	0.003	53268044	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.043	2.041	0.002	101909701	100.0	90.1	
2	2.058	2.056	0.002	55944694	100.0	101.3	
						RPD = 11.70	
15 alpha-BHC							
1	2.369	2.366	0.003	470186339	200.0	252.8	
2	2.384	2.379	0.005	211215915	200.0	245.0	
						RPD = 3.11	
2 gamma-BHC (Lindane)							
1	2.564	2.562	0.002	445762603	200.0	255.3	
2	2.578	2.574	0.004	204683562	200.0	251.3	
						RPD = 1.58	
6 beta-BHC							
1	2.611	2.608	0.003	197271070	200.0	268.3	
2	2.624	2.620	0.004	94511000	200.0	261.6	
						RPD = 2.55	
32 delta-BHC							
1	2.732	2.729	0.003	290968651	200.0	166.6	
2	2.744	2.741	0.003	135902150	200.0	161.3	
						RPD = 3.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Heptachlor							
1	2.878	2.874	0.004	429507677	200.0	222.2	
2	2.890	2.887	0.003	192668698	200.0	214.4	
						RPD = 3.58	
8 Aldrin							
1	3.099	3.096	0.003	404234849	200.0	230.4	
2	3.111	3.108	0.003	180453023	200.0	216.6	
						RPD = 6.18	
12 Heptachlor epoxide							
1	3.589	3.585	0.004	415975412	200.0	251.0	
2	3.598	3.594	0.004	187269703	200.0	234.8	
						RPD = 6.67	
9 trans-Chlordane							
1	3.699	3.696	0.003	433781857	200.0	252.6	
2	3.708	3.704	0.004	192718459	200.0	240.7	
						RPD = 4.86	
23 cis-Chlordane							
1	3.825	3.822	0.003	415730516	200.0	250.3	
2	3.833	3.829	0.004	186958434	200.0	237.7	
						RPD = 5.16	
7 Endosulfan I							
1	3.882	3.878	0.004	441806372	200.0	260.1	
2	3.977	3.973	0.004	180676897	200.0	241.4	
						RPD = 7.43	
25 4,4'-DDE							
1	3.969	3.965	0.004	402819266	200.0	252.8	
2	3.889	3.884	0.005	194682213	200.0	244.3	
						RPD = 3.41	
30 Dieldrin							
1	4.222	4.218	0.004	462494300	200.0	256.0	
2	4.228	4.224	0.004	205560200	200.0	251.4	
						RPD = 1.81	
20 Endrin							
1	4.468	4.464	0.004	426538206	200.0	285.0	
2	4.472	4.469	0.003	190899999	200.0	261.2	
						RPD = 8.72	
16 4,4'-DDD							
1	4.516	4.513	0.003	390833271	200.0	281.5	
2	4.519	4.516	0.003	172118679	200.0	266.9	
						RPD = 5.34	
11 Endosulfan II							
1	4.686	4.684	0.002	401502118	200.0	266.8	
2	4.689	4.687	0.002	175684741	200.0	255.7	
						RPD = 4.23	
21 4,4'-DDT							
1	4.777	4.774	0.003	401824041	200.0	252.7	
2	4.779	4.777	0.002	170526979	200.0	242.8	
						RPD = 3.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Endrin aldehyde							
1	5.002	5.000	0.002	309874043	200.0	249.0	
2	5.003	5.001	0.002	130886906	200.0	245.4	
						RPD = 1.44	
3 Endosulfan sulfate							
1	5.115	5.114	0.001	224873105	200.0	261.7	
2	5.282	5.279	0.003	145513591	200.0	243.8	
						RPD = 7.08	
10 Methoxychlor							
1	5.212	5.210	0.002	264957454	200.0	226.6	
2	5.116	5.114	0.002	94111818	200.0	263.9	
						RPD = 15.23	
34 Mirex							
1	5.281	5.280	0.001	346703568	200.0	244.4	
2	5.214	5.213	0.001	107512827	200.0	222.8	
						RPD = 9.24	
13 Endrin ketone							
1	5.456	5.455	0.001	473426238	200.0	278.2	
2	5.456	5.454	0.002	178817570	200.0	261.9	
						RPD = 6.05	
$ 24 DCB Decachlorobiphenyl							
1	6.261	6.261	0.000	130111315	100.0	93.6	
2	6.255	6.255	0.000	52705917	100.0	89.7	
						RPD = 4.23	

Reagents:

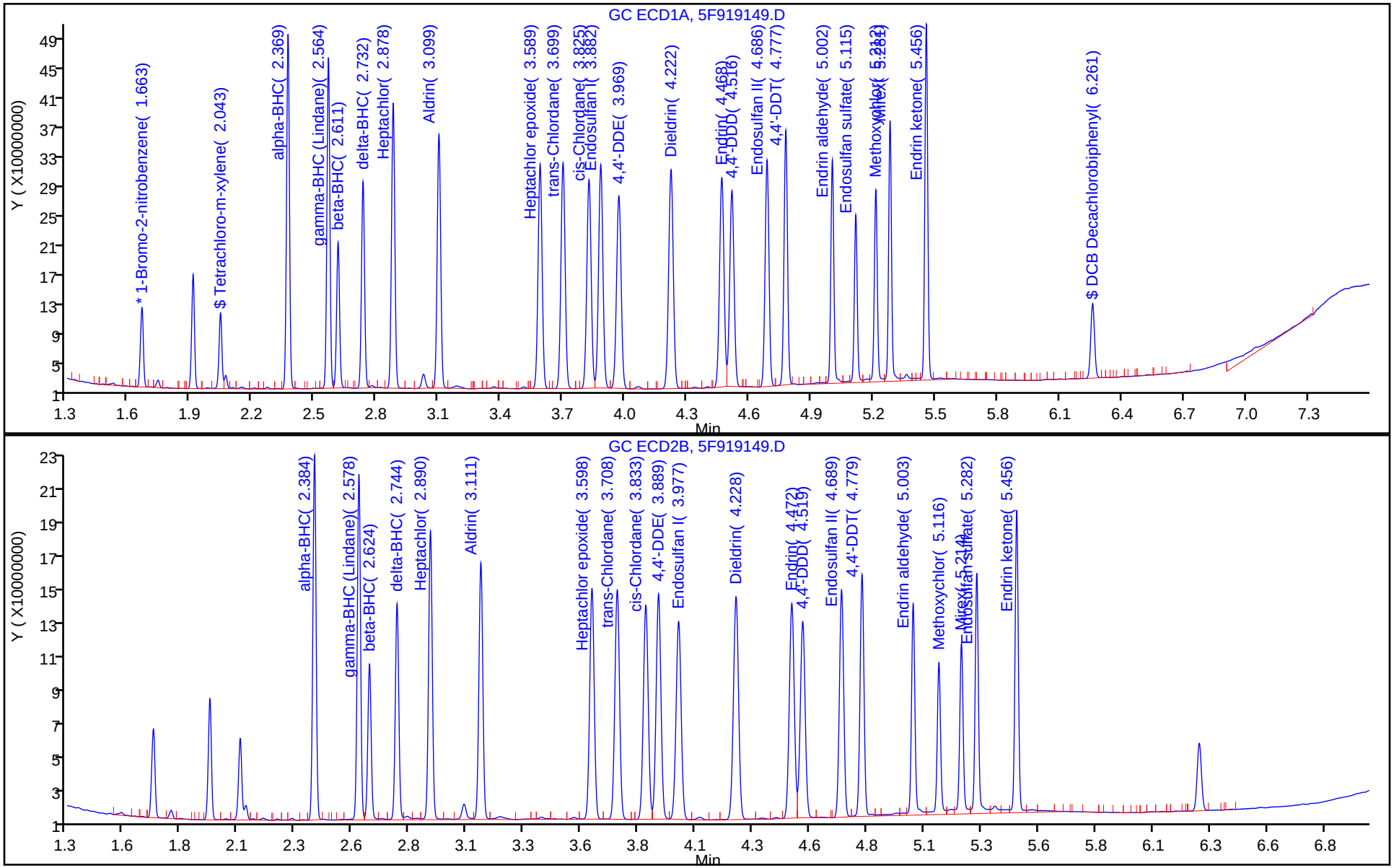
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:45:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D

Injection Date:	21-Mar-2018 09:34:38	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152194-I-4-A MS			Worklist Smp#:	8
Client ID:	SW-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



User Disabled Compound Report

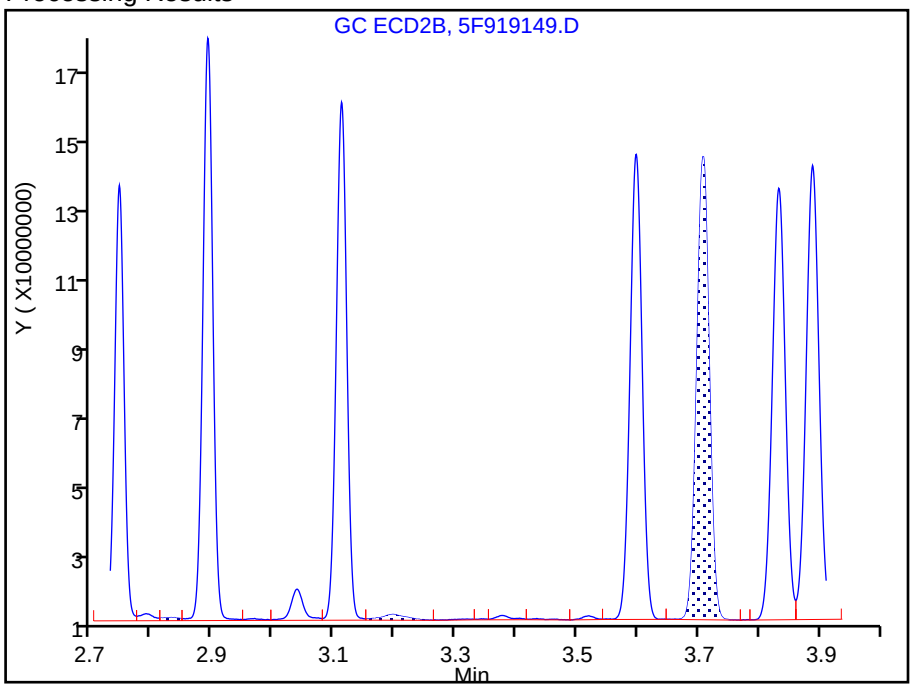
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919149.D				
Injection Date:	21-Mar-2018 09:34:38	Instrument ID:	CPESTGC5		
Lims ID:	460-152194-I-4-A MS				
Client ID:	SW-04				
Operator ID:		ALS Bottle#:	43	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		

31 Chlordane (technical), Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.83	2.83	1662567	77.666491
3.20	3.20	4842670	186.7865
3.54			
3.71	3.71	192718459	2176.8697
3.81			
		Average =	813.7742



Reviewer: dalanginc, 21-Mar-2018 11:44:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-G MS

Matrix: Solid | Lab File ID: P4076582.D

Analysis Method: 8081B | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0121(g) | Date Analyzed: 03/22/2018 14:14

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.148		0.0074	0.0013
72-55-9	4,4'-DDE	0.146		0.0074	0.00088
50-29-3	4,4'-DDT	0.136		0.0074	0.0014
309-00-2	Aldrin	0.133		0.0074	0.0011
319-84-6	alpha-BHC	0.143		0.0022	0.00075
319-85-7	beta-BHC	0.145		0.0022	0.00083
12789-03-6	*Chlordane (technical)*	*0.018*	*U*	*0.074*	*0.018*
319-86-8	delta-BHC	0.139		0.0022	0.00045
60-57-1	Dieldrin	0.146		0.0022	0.00096
959-98-8	Endosulfan I	0.142		0.0074	0.0011
33213-65-9	Endosulfan II	0.143		0.0074	0.0019
1031-07-8	Endosulfan sulfate	0.138		0.0074	0.00093
72-20-8	Endrin	0.147		0.0074	0.0011
7421-93-4	Endrin aldehyde	0.137		0.0074	0.0018
53494-70-5	Endrin ketone	0.146		0.0074	0.0014
58-89-9	gamma-BHC (Lindane)	0.139		0.0022	0.00069
76-44-8	Heptachlor	0.133		0.0074	0.00088
1024-57-3	Heptachlor epoxide	0.139		0.0074	0.0011
72-43-5	Methoxychlor	0.140		0.0074	0.0017
8001-35-2	*Toxaphene*	*0.027*	*U*	*0.074*	*0.027*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		69-150
877-09-8	Tetrachloro-m-xylene	93		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D
Lims ID: 460-152046-E-4-G MS
Client ID:
Sample Type: MS
Inject. Date: 22-Mar-2018 14:14:48 ALS Bottle#: 26 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 14:40:53 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 14:38:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.566	1.558	0.008	42601606	100.0	100.0	
2	1.413	1.404	0.009	69400877	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.064	2.055	0.009	19775325	50.0	46.5	
2	1.740	1.732	0.008	22921975	50.0	34.9	
						RPD = 28.57	
15 alpha-BHC							a
1	2.453	2.446	0.007	119064080	200.0	194.1	a
2	2.026	2.019	0.007	156616627	200.0	163.7	a
						RPD = 16.95	
2 gamma-BHC (Lindane)							
1	2.692	2.685	0.007	106947255	200.0	187.8	
2	2.203	2.197	0.006	142339837	200.0	163.0	
						RPD = 14.13	
6 beta-BHC							
1	2.741	2.734	0.007	48719019	200.0	195.9	
2	2.247	2.241	0.006	61855169	200.0	163.4	
						RPD = 18.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 delta-BHC							a
1	2.964	2.955	0.009	109240753	200.0	188.0	a
2	2.355	2.349	0.006	146490898	200.0	168.0	a
						RPD = 11.27	
18 Heptachlor							
1	3.029	3.022	0.007	102009472	200.0	180.6	
2	2.484	2.478	0.006	136776859	200.0	159.6	
						RPD = 12.33	
8 Aldrin							
1	3.299	3.289	0.010	96054739	200.0	180.4	
2	2.666	2.662	0.004	125205690	200.0	157.8	
						RPD = 13.32	
12 Heptachlor epoxide							
1	3.825	3.815	0.010	91204538	200.0	188.2	
2	3.070	3.066	0.004	117675910	200.0	157.3	
						RPD = 17.85	
9 trans-Chlordane							
1	4.026	4.019	0.007	91260421	200.0	188.2	
2	3.162	3.158	0.004	118133001	200.0	158.9	
						RPD = 16.87	
23 cis-Chlordane							
1	4.190	4.182	0.008	87648032	200.0	191.1	
2	3.264	3.259	0.005	112696627	200.0	155.9	
						RPD = 20.29	
7 Endosulfan I							a
1	4.263	4.253	0.010	85366593	200.0	192.1	a
2	3.375	3.370	0.005	112585995	200.0	159.6	a
						RPD = 18.50	
25 4,4'-DDE							
1	4.362	4.353	0.009	90662481	200.0	198.0	
2	3.320	3.316	0.004	113884057	200.0	158.8	
						RPD = 22.01	
30 Dieldrin							a
1	4.562	4.551	0.011	96154747	200.0	197.8	a
2	3.578	3.574	0.004	125353384	200.0	160.9	a
						RPD = 20.60	
20 Endrin							
1	4.842	4.835	0.007	85637435	200.0	199.1	
2	3.794	3.789	0.005	113583595	200.0	157.6	
						RPD = 23.30	
16 4,4'-DDD							
1	4.917	4.913	0.004	76948089	200.0	200.8	
2	3.856	3.854	0.002	95860088	200.0	153.2	
						RPD = 26.89	
11 Endosulfan II							
1	4.998	4.994	0.004	80209639	200.0	193.5	
2	4.019	4.015	0.004	106762660	200.0	156.8	
						RPD = 20.95	

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21 4,4'-DDT							
1	5.143	5.139	0.004	74710557	200.0	184.4	
2	4.158	4.154	0.004	100335088	200.0	154.6	
						RPD = 17.59	
5 Endrin aldehyde							
1	5.231	5.226	0.005	64653805	200.0	185.4	
2	4.465	4.462	0.003	87941122	200.0	154.9	
						RPD = 17.95	
3 Endosulfan sulfate							
1	5.418	5.414	0.004	74602206	200.0	186.4	
2	4.859	4.858	0.001	100779212	200.0	145.1	
						RPD = 24.90	
10 Methoxychlor							
1	5.630	5.625	0.005	41768269	200.0	188.9	
2	4.679	4.676	0.003	50413220	200.0	138.7	
						RPD = 30.69	
34 Mirex							
1	5.798	5.792	0.006	48794588	200.0	172.3	
2	4.780	4.779	0.001	66039780	200.0	132.4	
						RPD = 26.16	
13 Endrin ketone							
1	5.829	5.824	0.005	89257742	200.0	197.9	
2	5.052	5.051	0.001	114145250	200.0	145.3	
						RPD = 30.67	
$ 24 DCB Decachlorobiphenyl							
1	6.883	6.879	0.004	15428746	50.0	49.1	
2	5.783	5.784	-0.001	22881706	50.0	36.4	
						RPD = 29.64	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

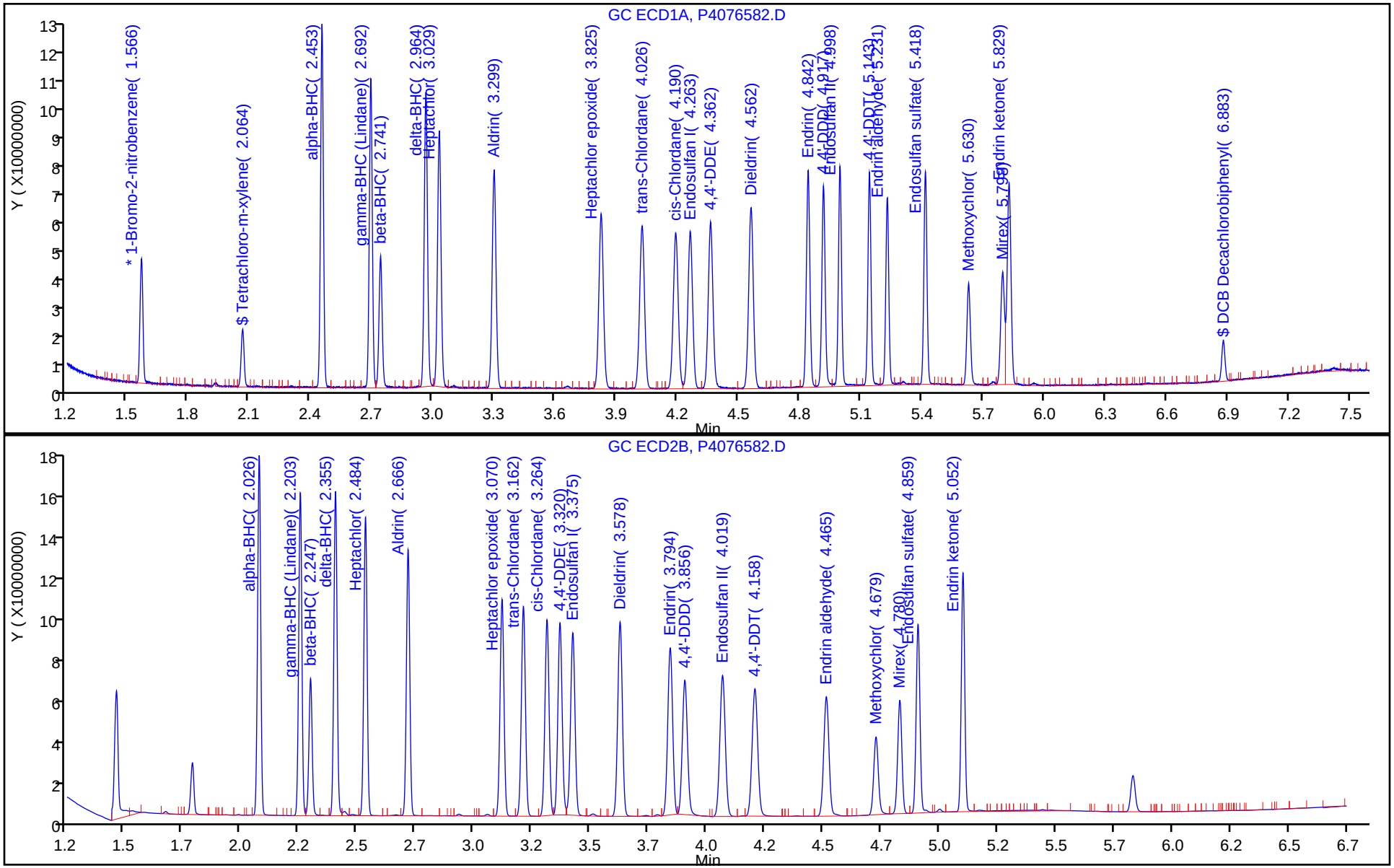
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 14:41:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D

Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152046-E-4-G MS			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

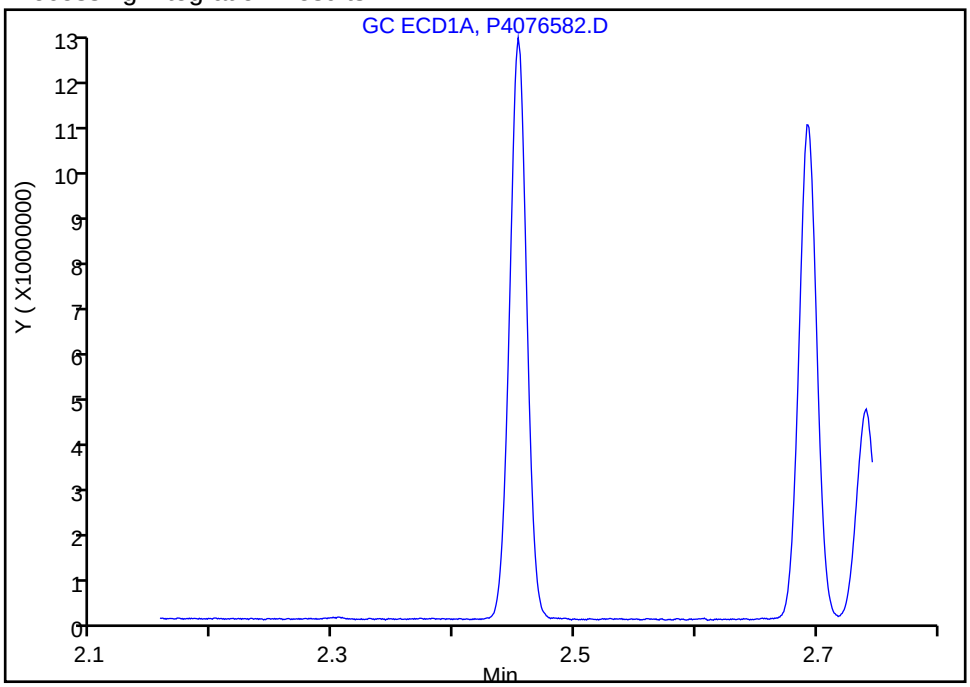
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D				
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-G MS				
Client ID:					
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

15 alpha-BHC, CAS: 319-84-6

Signal: 1

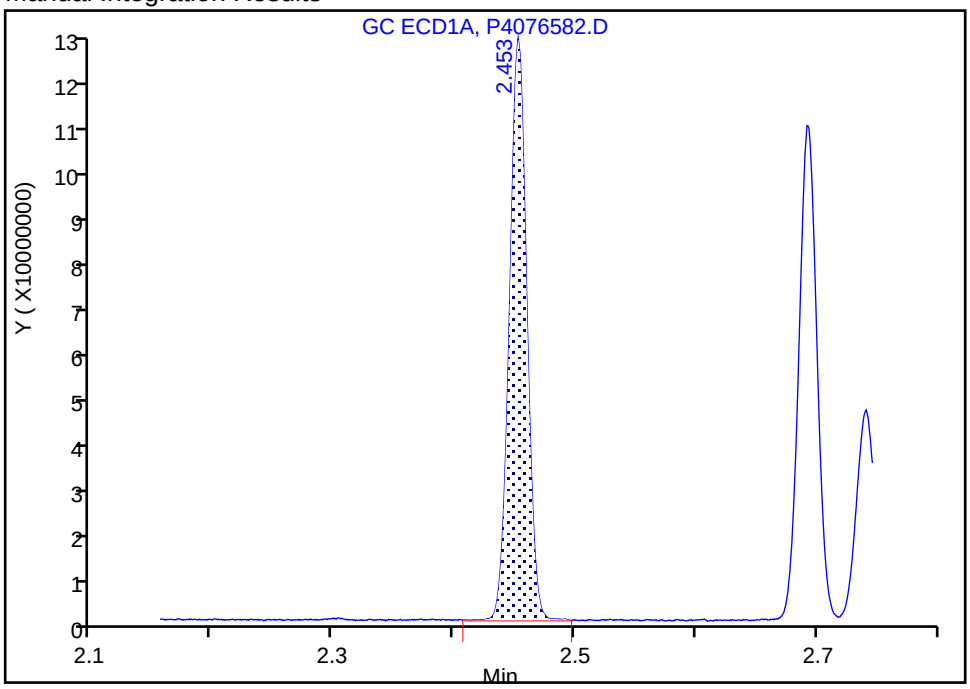
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 119064080
Amount: 194.0789
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:38:47
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

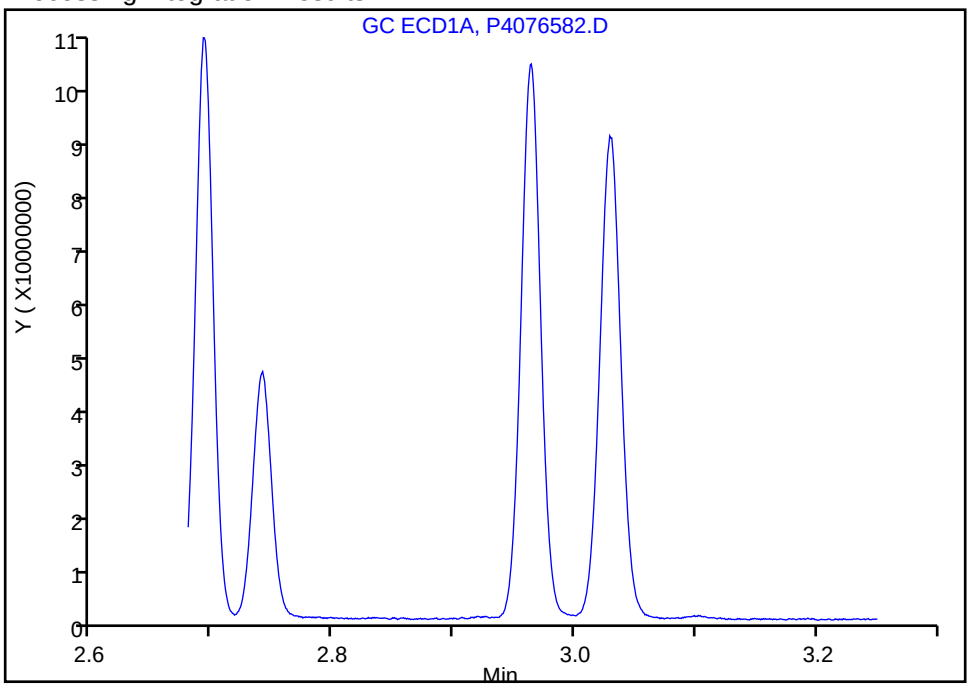
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D		
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4
Lims ID:	460-152046-E-4-G MS		
Client ID:			
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

32 delta-BHC, CAS: 319-86-8

Signal: 1

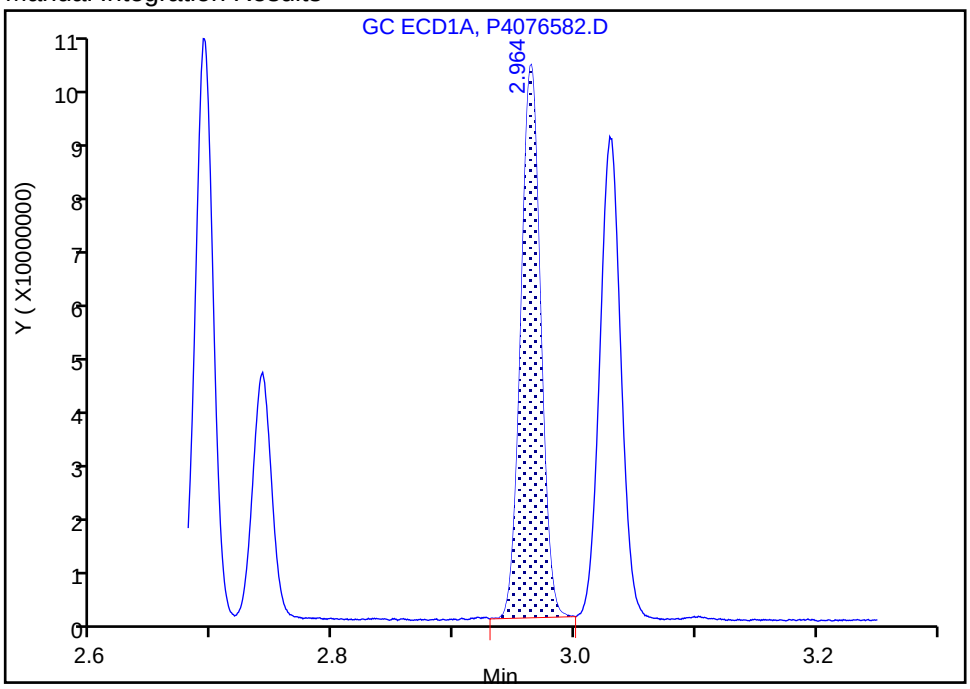
Processing Integration Results

Not Detected
Expected RT: 2.96



Manual Integration Results

RT: 2.96
Area: 109240753
Amount: 188.0384
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:05
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

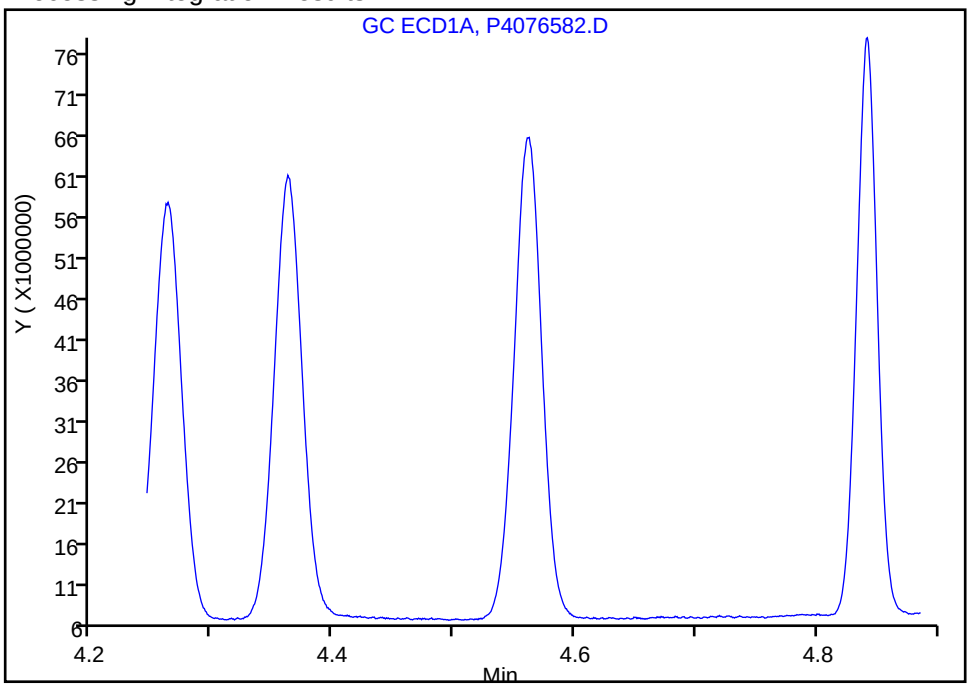
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D
Injection Date: 22-Mar-2018 14:14:48 Instrument ID: CPESTGC4
Lims ID: 460-152046-E-4-G MS
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

30 Dieldrin, CAS: 60-57-1

Signal: 1

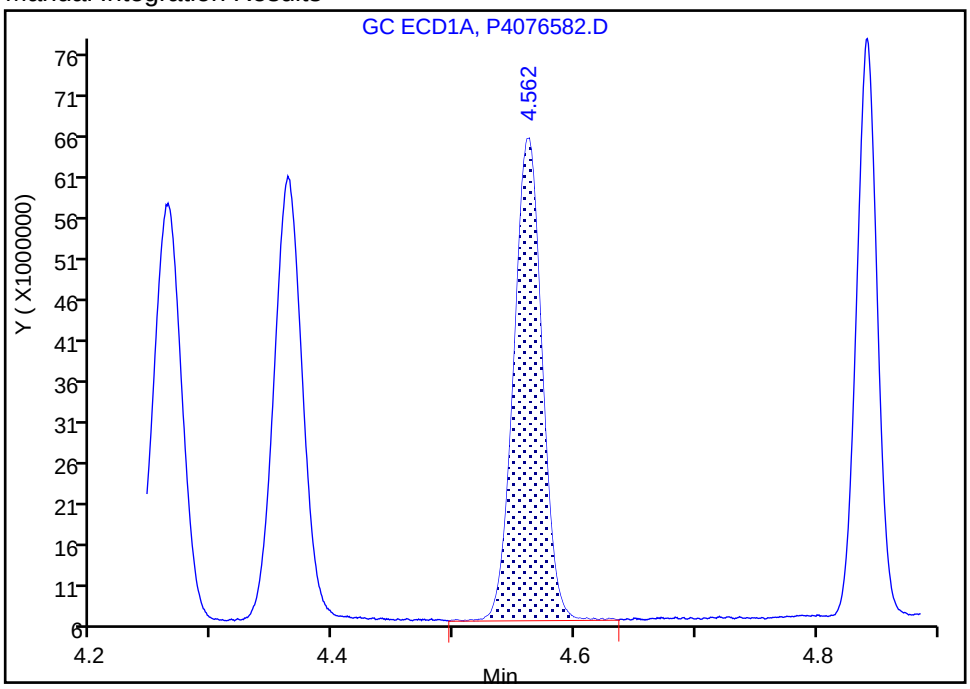
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 96154747
Amount: 197.8170
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:31
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

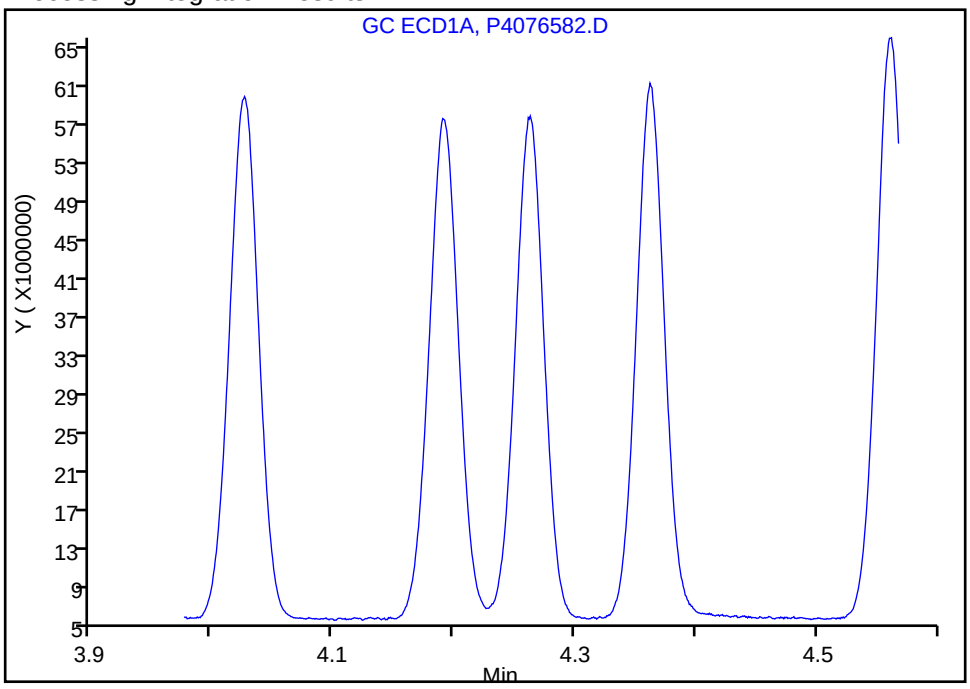
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D
Injection Date: 22-Mar-2018 14:14:48 Instrument ID: CPESTGC4
Lims ID: 460-152046-E-4-G MS
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

7 Endosulfan I, CAS: 959-98-8

Signal: 1

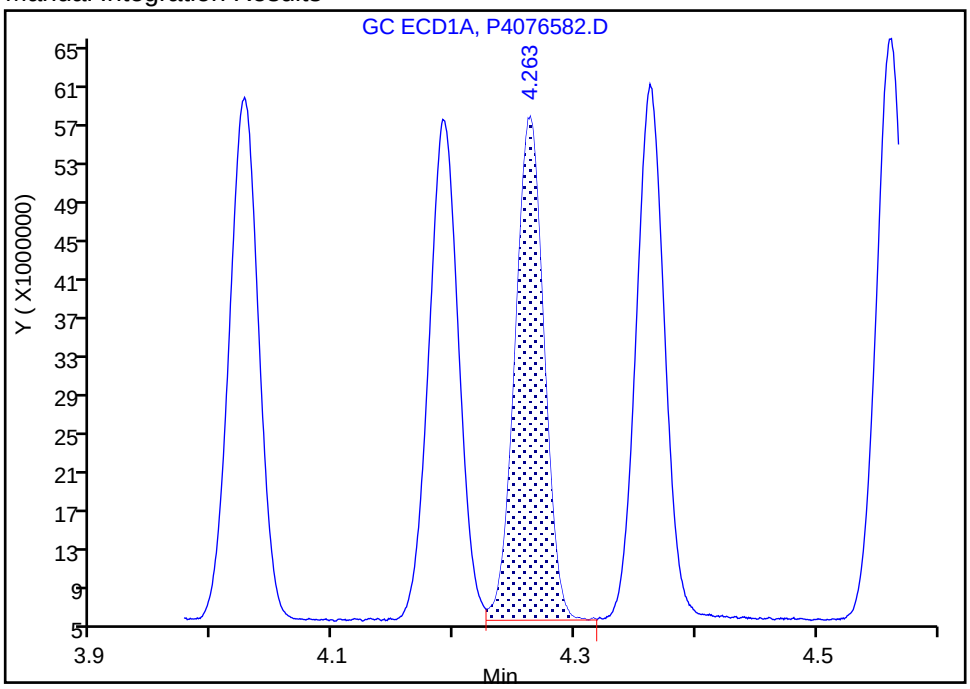
Not Detected
Expected RT: 4.25

Processing Integration Results



Manual Integration Results

RT: 4.26
Area: 85366593
Amount: 192.1267
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:18
Audit Action: Assigned Compound ID Audit Reason:

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-G MS

Matrix: Solid | Lab File ID: P4076582.D

Analysis Method: 8081B | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0121(g) | Date Analyzed: 03/22/2018 14:14

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*0.113*		*0.0074*	*0.0013*
72-55-9	*4,4'-DDE*	*0.117*		*0.0074*	*0.00088*
50-29-3	*4,4'-DDT*	*0.114*		*0.0074*	*0.0014*
309-00-2	*Aldrin*	*0.117*		*0.0074*	*0.0011*
319-84-6	*alpha-BHC*	*0.121*		*0.0022*	*0.00075*
319-85-7	*beta-BHC*	*0.121*		*0.0022*	*0.00083*
12789-03-6	Chlordane (technical)	0.018	U	0.074	0.018
319-86-8	*delta-BHC*	*0.124*		*0.0022*	*0.00045*
60-57-1	*Dieldrin*	*0.119*		*0.0022*	*0.00096*
959-98-8	*Endosulfan I*	*0.118*		*0.0074*	*0.0011*
33213-65-9	*Endosulfan II*	*0.116*		*0.0074*	*0.0019*
1031-07-8	*Endosulfan sulfate*	*0.107*		*0.0074*	*0.00093*
72-20-8	*Endrin*	*0.116*		*0.0074*	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.114*		*0.0074*	*0.0018*
53494-70-5	*Endrin ketone*	*0.107*		*0.0074*	*0.0014*
58-89-9	*gamma-BHC (Lindane)*	*0.120*		*0.0022*	*0.00069*
76-44-8	*Heptachlor*	*0.118*		*0.0074*	*0.00088*
1024-57-3	*Heptachlor epoxide*	*0.116*		*0.0074*	*0.0011*
72-43-5	*Methoxychlor*	*0.102*		*0.0074*	*0.0017*
8001-35-2	Toxaphene	0.027	U	0.074	0.027

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73		69-150
877-09-8	Tetrachloro-m-xylene	70	*X*	74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D
Lims ID: 460-152046-E-4-G MS
Client ID:
Sample Type: MS
Inject. Date: 22-Mar-2018 14:14:48 ALS Bottle#: 26 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 14:40:53 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 14:38:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
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						RPD = 20.95	

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2	4.158	4.154	0.004	100335088	200.0	154.6	
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1	5.231	5.226	0.005	64653805	200.0	185.4	
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3 Endosulfan sulfate							
1	5.418	5.414	0.004	74602206	200.0	186.4	
2	4.859	4.858	0.001	100779212	200.0	145.1	
						RPD = 24.90	
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1	5.630	5.625	0.005	41768269	200.0	188.9	
2	4.679	4.676	0.003	50413220	200.0	138.7	
						RPD = 30.69	
34 Mirex							
1	5.798	5.792	0.006	48794588	200.0	172.3	
2	4.780	4.779	0.001	66039780	200.0	132.4	
						RPD = 26.16	
13 Endrin ketone							
1	5.829	5.824	0.005	89257742	200.0	197.9	
2	5.052	5.051	0.001	114145250	200.0	145.3	
						RPD = 30.67	
$ 24 DCB Decachlorobiphenyl							
1	6.883	6.879	0.004	15428746	50.0	49.1	
2	5.783	5.784	-0.001	22881706	50.0	36.4	
						RPD = 29.64	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

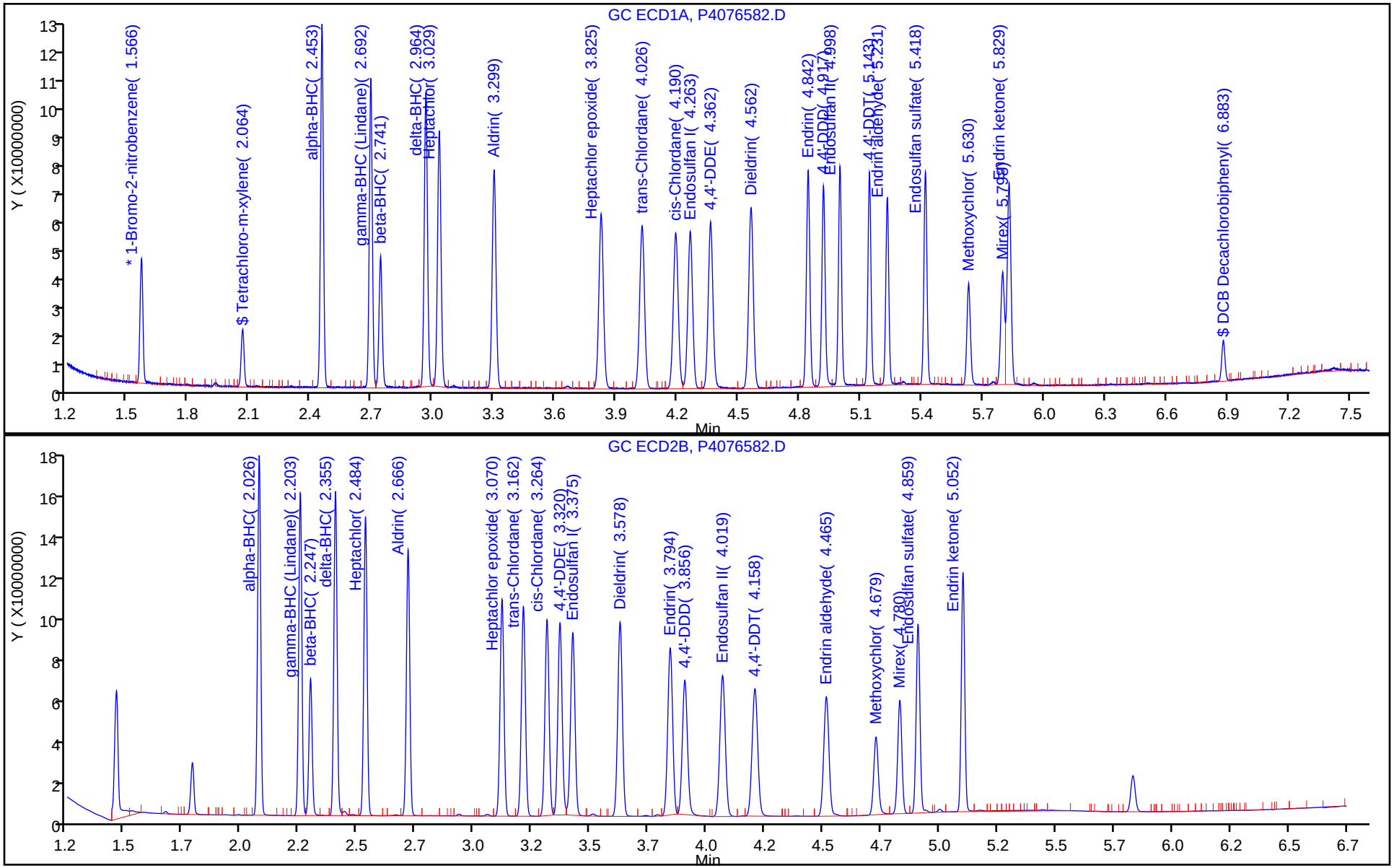
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 14:41:02 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D

Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152046-E-4-G MS			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

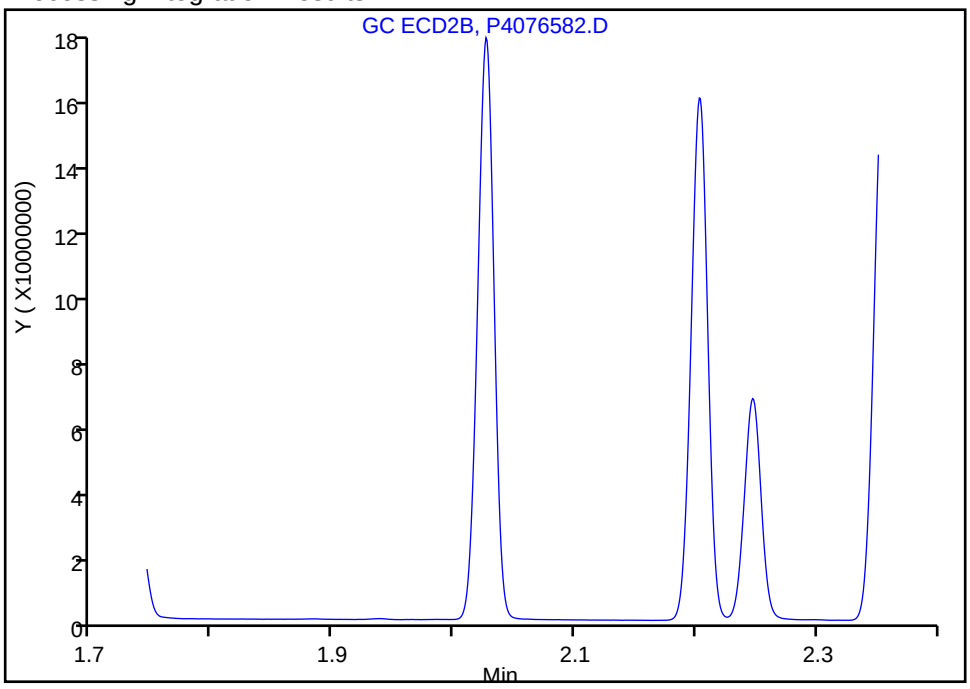
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D		
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4
Lims ID:	460-152046-E-4-G MS		
Client ID:			
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

15 alpha-BHC, CAS: 319-84-6

Signal: 2

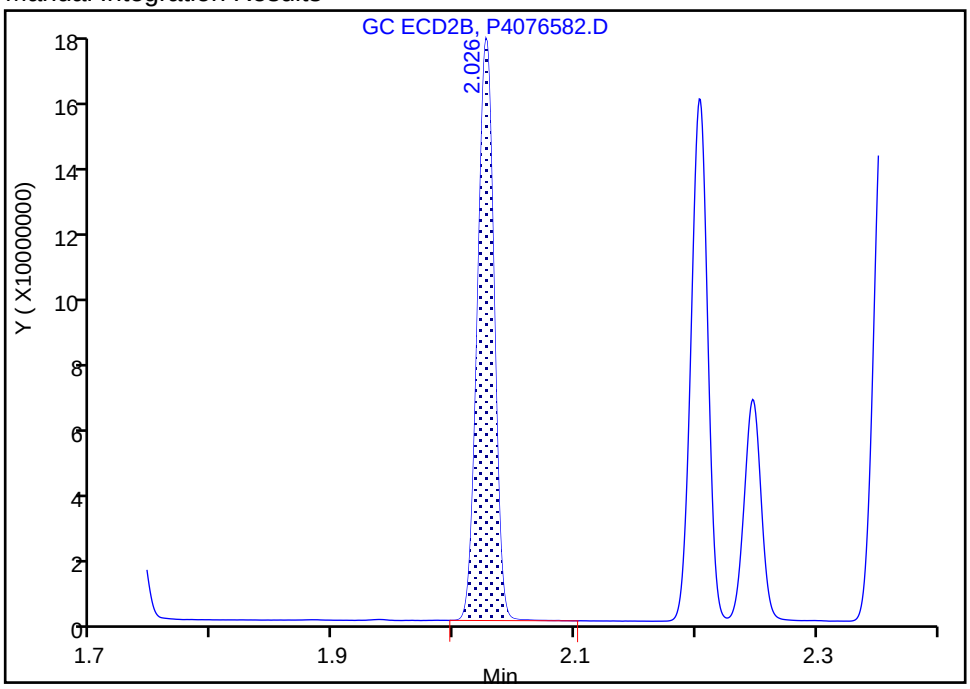
Processing Integration Results

Not Detected
Expected RT: 2.02



Manual Integration Results

RT: 2.03
Area: 156616627
Amount: 163.7486
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:38:55
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

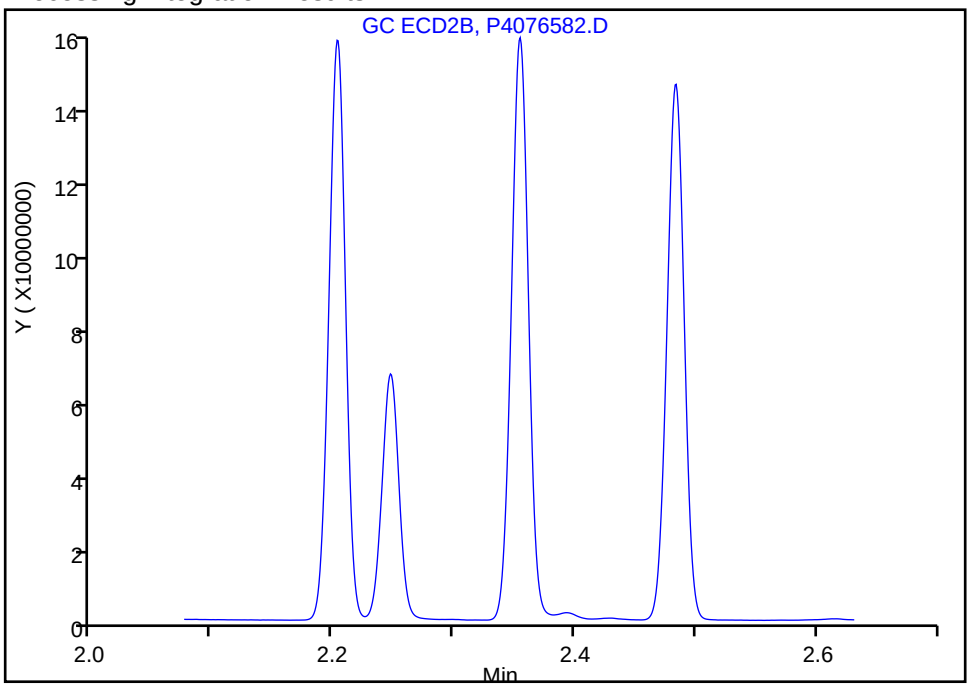
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D				
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-G MS				
Client ID:					
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

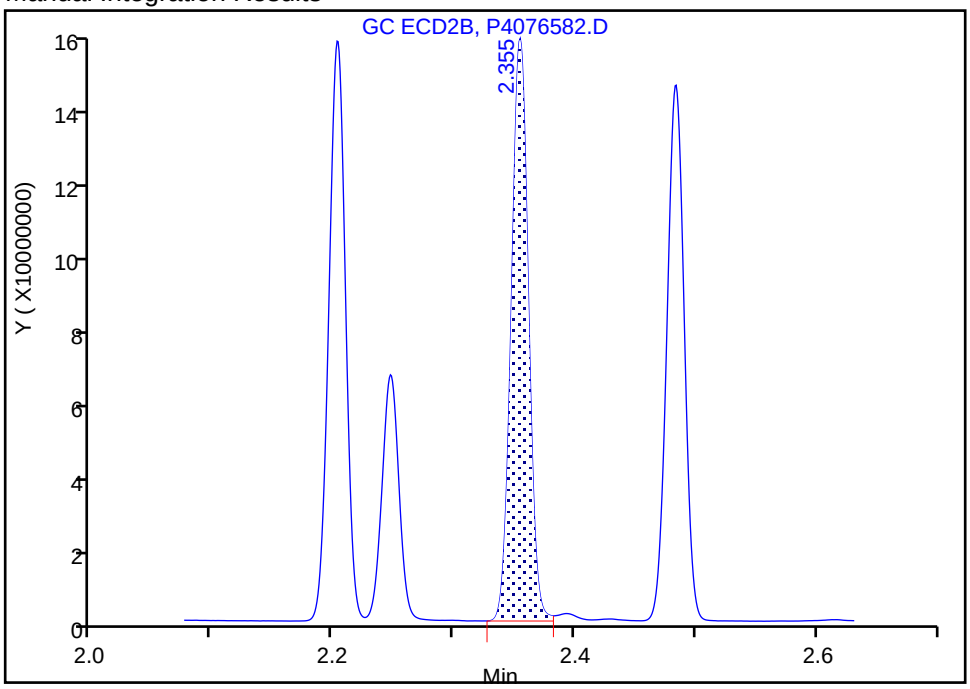
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.35
Area: 146490898
Amount: 167.9760
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:11
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

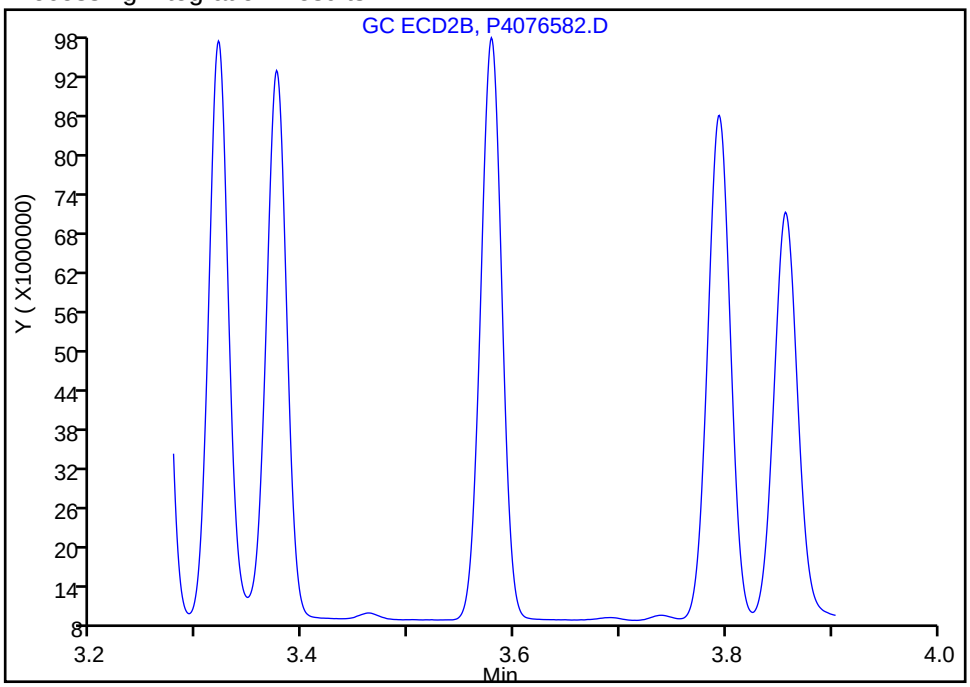
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D		
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4
Lims ID:	460-152046-E-4-G MS		
Client ID:			
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

30 Dieldrin, CAS: 60-57-1

Signal: 2

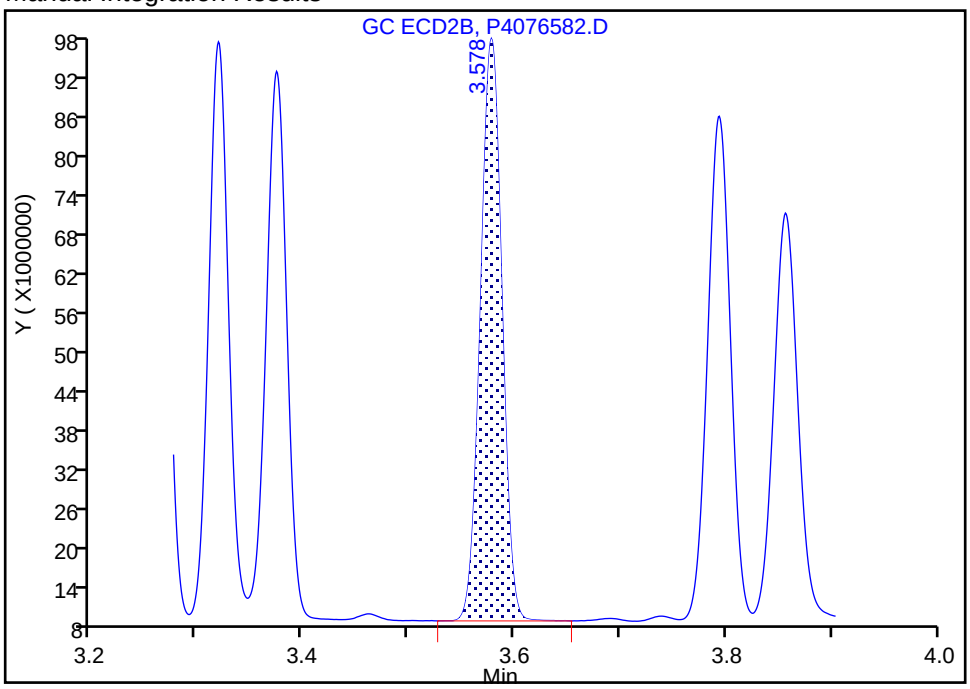
Processing Integration Results

Not Detected
Expected RT: 3.57



Manual Integration Results

RT: 3.58
Area: 125353384
Amount: 160.8685
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:41
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

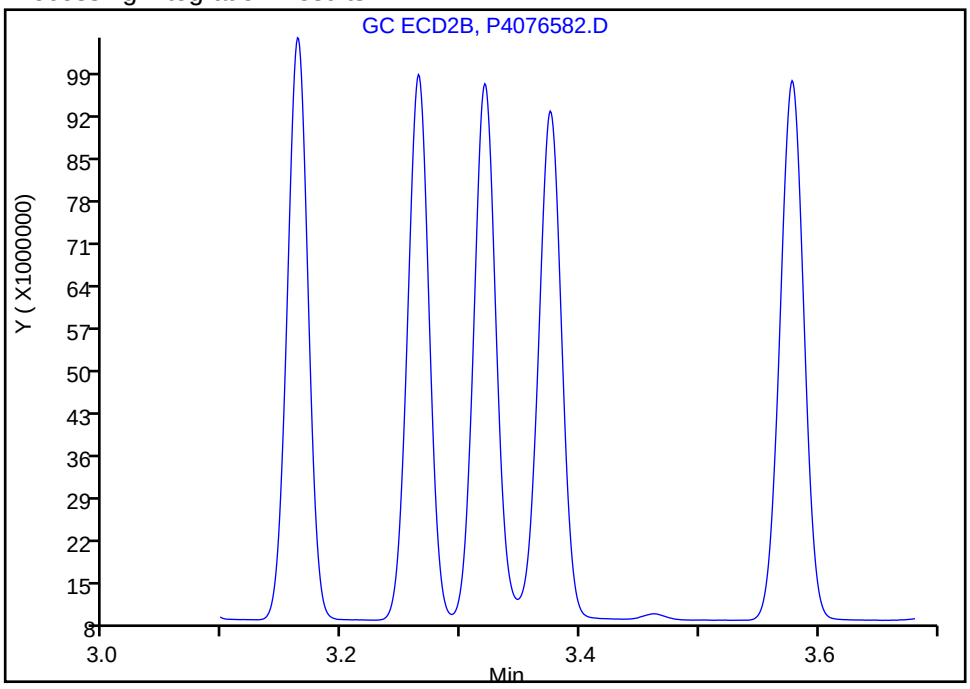
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076582.D				
Injection Date:	22-Mar-2018 14:14:48	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-G MS				
Client ID:					
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

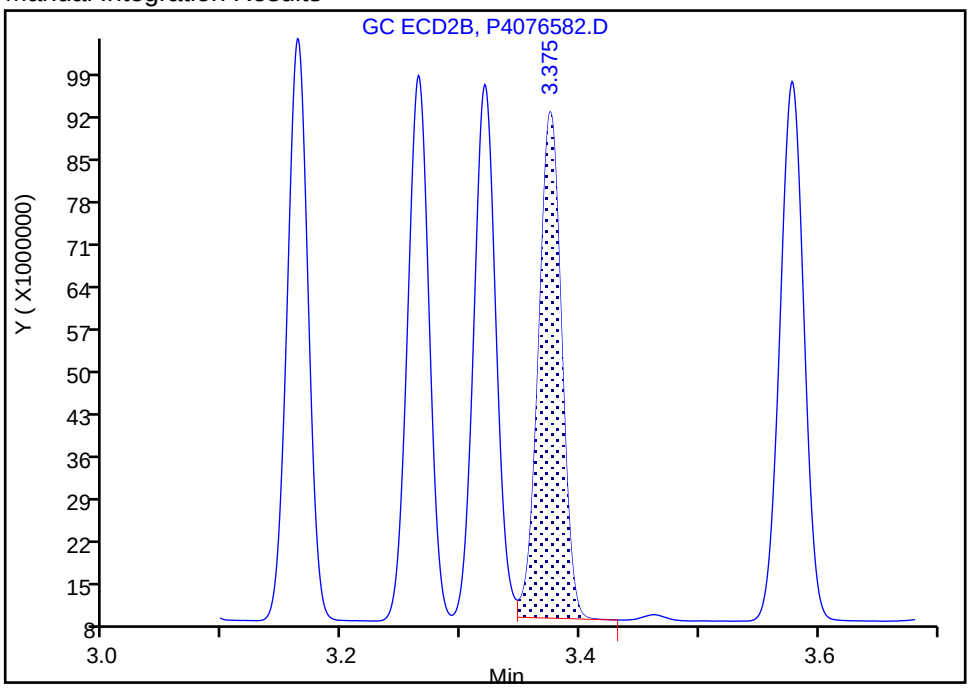
Not Detected
Expected RT: 3.37

Processing Integration Results



Manual Integration Results

RT: 3.37
Area: 112585995
Amount: 159.5963
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:39:24
Audit Action: Assigned Compound ID Audit Reason:

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152194-J-4-A MSD

Matrix: Water | Lab File ID: 5F919150.D

Analysis Method: 8081B | Date Collected: 03/14/2018 12:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:47

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	1.19		0.020	0.0060
72-55-9	4,4'-DDE	1.08		0.020	0.0020
50-29-3	4,4'-DDT	0.991		0.020	0.0040
309-00-2	Aldrin	0.924		0.020	0.0030
319-84-6	alpha-BHC	1.09		0.020	0.0070
319-85-7	beta-BHC	1.17		0.020	0.0040
12789-03-6	*Chlordane (technical)*	*0.055*	*U*	*0.50*	*0.055*
319-86-8	delta-BHC	0.723		0.020	0.0050
60-57-1	Dieldrin	1.09		0.020	0.0030
959-98-8	Endosulfan I	1.01		0.020	0.0020
33213-65-9	Endosulfan II	1.15		0.020	0.0040
1031-07-8	Endosulfan sulfate	1.09		0.020	0.0060
72-20-8	Endrin	1.23		0.020	0.0040
7421-93-4	Endrin aldehyde	1.08		0.020	0.0080
53494-70-5	Endrin ketone	1.20		0.020	0.0080
58-89-9	gamma-BHC (Lindane)	1.10		0.020	0.012
76-44-8	Heptachlor	0.907		0.020	0.0030
1024-57-3	Heptachlor epoxide	1.07		0.020	0.0050
72-43-5	Methoxychlor	0.715		0.020	0.0040
8001-35-2	*Toxaphene*	*0.11*	*U*	*0.50*	*0.11*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	60		10-150
877-09-8	Tetrachloro-m-xylene	86		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919150.D
Lims ID: 460-152194-J-4-A MSD
Client ID: SW-04
Sample Type: MSD
Inject. Date: 21-Mar-2018 09:47:29 ALS Bottle#: 44 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-009
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.664	1.660	0.004	114494836	100.0	100.0	
2	1.680	1.676	0.004	57984008	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.044	2.041	0.003	104421518	100.0	86.1	
2	2.060	2.056	0.004	58018468	100.0	96.5	
						RPD = 11.43	
15 alpha-BHC							
1	2.371	2.366	0.005	542622214	200.0	272.0	
2	2.385	2.379	0.006	242251272	200.0	258.2	
						RPD = 5.20	
2 gamma-BHC (Lindane)							
1	2.566	2.562	0.004	513357005	200.0	274.1	
2	2.579	2.574	0.005	232087961	200.0	261.8	
						RPD = 4.60	
6 beta-BHC							
1	2.612	2.608	0.004	230586116	200.0	292.4	
2	2.625	2.620	0.005	108709847	200.0	276.4	
						RPD = 5.63	
32 delta-BHC							
1	2.733	2.729	0.004	338834744	200.0	180.9	
2	2.746	2.741	0.005	154823649	200.0	168.8	
						RPD = 6.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Heptachlor							
1	2.879	2.874	0.005	469928794	200.0	226.7	
2	2.891	2.887	0.004	206351698	200.0	211.0	
						RPD = 7.18	
8 Aldrin							
1	3.101	3.096	0.005	434810605	200.0	231.1	
2	3.112	3.108	0.004	190084665	200.0	209.6	
						RPD = 9.74	
12 Heptachlor epoxide							
1	3.590	3.585	0.005	475783645	200.0	267.7	
2	3.599	3.594	0.005	211512468	200.0	243.6	
						RPD = 9.40	
9 trans-Chlordane							
1	3.701	3.696	0.005	484858644	200.0	263.3	
2	3.709	3.704	0.005	212727565	200.0	244.0	
						RPD = 7.59	
23 cis-Chlordane							
1	3.826	3.822	0.004	467235447	200.0	262.3	
2	3.835	3.829	0.006	206505006	200.0	241.2	
						RPD = 8.37	
7 Endosulfan I							
1	3.883	3.878	0.005	461511782	200.0	253.3	
2	3.978	3.973	0.005	203931428	200.0	250.3	
						RPD = 1.17	
25 4,4'-DDE							
1	3.971	3.965	0.006	460177556	200.0	269.2	
2	3.890	3.884	0.006	200547762	200.0	231.2	
						RPD = 15.20	
30 Dieldrin							
1	4.223	4.218	0.005	528576208	200.0	272.8	
2	4.229	4.224	0.005	231709973	200.0	260.3	
						RPD = 4.67	
20 Endrin							
1	4.469	4.464	0.005	492917460	200.0	307.0	
2	4.474	4.469	0.005	216310366	200.0	271.9	
						RPD = 12.16	
16 4,4'-DDD							
1	4.518	4.513	0.005	444492796	200.0	298.5	
2	4.521	4.516	0.005	192971983	200.0	274.9	
						RPD = 8.24	
11 Endosulfan II							
1	4.688	4.684	0.004	463140664	200.0	286.9	
2	4.691	4.687	0.004	200490868	200.0	268.1	
						RPD = 6.78	
21 4,4'-DDT							
1	4.778	4.774	0.004	422691249	200.0	247.8	
2	4.781	4.777	0.004	176973314	200.0	231.5	
						RPD = 6.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Endrin aldehyde							
1	5.003	5.000	0.003	360784682	200.0	270.3	
2	5.004	5.001	0.003	154319590	200.0	265.8	
						RPD = 1.66	
3 Endosulfan sulfate							
1	5.116	5.114	0.002	251702269	200.0	273.1	
2	5.282	5.279	0.003	168990509	200.0	260.1	
						RPD = 4.87	
10 Methoxychlor							
1	5.213	5.210	0.003	224278681	200.0	178.8	
2	5.116	5.114	0.002	108439620	200.0	279.4	
						RPD = 43.90	
34 Mirex							
1	5.282	5.280	0.002	398056771	200.0	261.6	
2	5.215	5.213	0.002	94506888	200.0	179.9	
						RPD = 37.00	
13 Endrin ketone							
1	5.457	5.455	0.002	546866479	200.0	299.6	
2	5.456	5.454	0.002	207541657	200.0	279.2	
						RPD = 7.05	
$ 24 DCB Decachlorobiphenyl							
1	6.262	6.261	0.001	89050548	100.0	59.7	
2	6.256	6.255	0.001	36457686	100.0	57.0	
						RPD = 4.65	

Reagents:

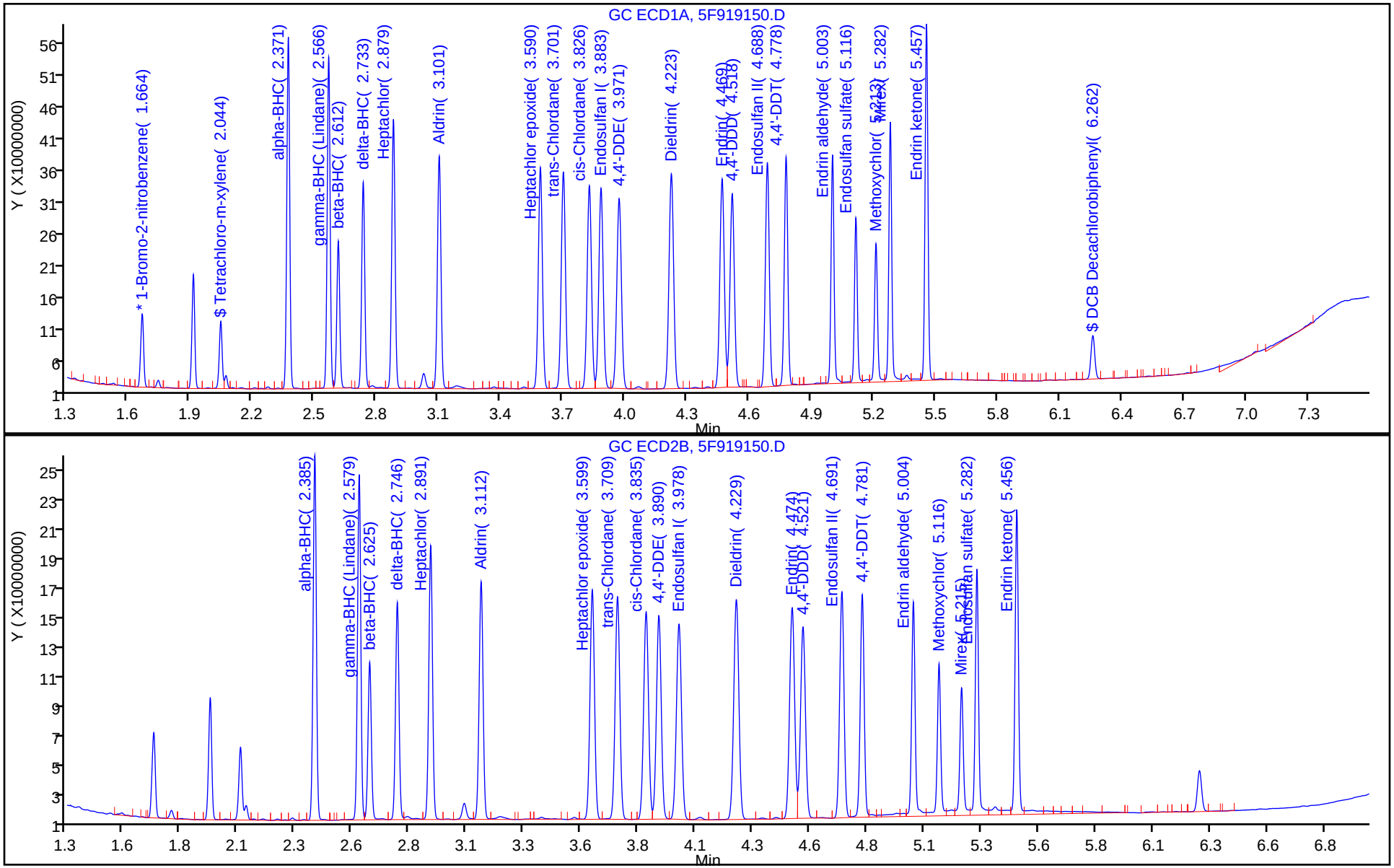
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:45:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919150.D

Injection Date:	21-Mar-2018 09:47:29	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152194-J-4-A MSD			Worklist Smp#:	9
Client ID:	SW-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152194-J-4-A MSD

Matrix: Water | Lab File ID: 5F919150.D

Analysis Method: 8081B | Date Collected: 03/14/2018 12:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:11

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 09:47

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505044 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*1.10*		*0.020*	*0.0060*
72-55-9	*4,4'-DDE*	*0.925*		*0.020*	*0.0020*
50-29-3	*4,4'-DDT*	*0.926*		*0.020*	*0.0040*
309-00-2	*Aldrin*	*0.838*		*0.020*	*0.0030*
319-84-6	*alpha-BHC*	*1.03*		*0.020*	*0.0070*
319-85-7	*beta-BHC*	*1.11*		*0.020*	*0.0040*
12789-03-6	Chlordane (technical)	0.055	U	0.50	0.055
319-86-8	*delta-BHC*	*0.675*		*0.020*	*0.0050*
60-57-1	*Dieldrin*	*1.04*		*0.020*	*0.0030*
959-98-8	*Endosulfan I*	*1.00*		*0.020*	*0.0020*
33213-65-9	*Endosulfan II*	*1.07*		*0.020*	*0.0040*
1031-07-8	*Endosulfan sulfate*	*1.04*		*0.020*	*0.0060*
72-20-8	*Endrin*	*1.09*		*0.020*	*0.0040*
7421-93-4	*Endrin aldehyde*	*1.06*		*0.020*	*0.0080*
53494-70-5	*Endrin ketone*	*1.12*		*0.020*	*0.0080*
58-89-9	*gamma-BHC (Lindane)*	*1.05*		*0.020*	*0.012*
76-44-8	*Heptachlor*	*0.844*		*0.020*	*0.0030*
1024-57-3	*Heptachlor epoxide*	*0.975*		*0.020*	*0.0050*
72-43-5	*Methoxychlor*	*1.12*		*0.020*	*0.0040*
8001-35-2	Toxaphene	0.11	U	0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	57		10-150
877-09-8	Tetrachloro-m-xylene	97		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919150.D
Lims ID: 460-152194-J-4-A MSD
Client ID: SW-04
Sample Type: MSD
Inject. Date: 21-Mar-2018 09:47:29 ALS Bottle#: 44 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069092-009
Operator ID: Instrument ID: CPESTGC5

Method: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\GC 5 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 21-Mar-2018 11:44:52 Calib Date: 08-Feb-2018 18:46:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC5\20180208-67231.b\5F917997.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.664	1.660	0.004	114494836	100.0	100.0	
2	1.680	1.676	0.004	57984008	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.044	2.041	0.003	104421518	100.0	86.1	
2	2.060	2.056	0.004	58018468	100.0	96.5	
						RPD = 11.43	
15 alpha-BHC							
1	2.371	2.366	0.005	542622214	200.0	272.0	
2	2.385	2.379	0.006	242251272	200.0	258.2	
						RPD = 5.20	
2 gamma-BHC (Lindane)							
1	2.566	2.562	0.004	513357005	200.0	274.1	
2	2.579	2.574	0.005	232087961	200.0	261.8	
						RPD = 4.60	
6 beta-BHC							
1	2.612	2.608	0.004	230586116	200.0	292.4	
2	2.625	2.620	0.005	108709847	200.0	276.4	
						RPD = 5.63	
32 delta-BHC							
1	2.733	2.729	0.004	338834744	200.0	180.9	
2	2.746	2.741	0.005	154823649	200.0	168.8	
						RPD = 6.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Heptachlor							
1	2.879	2.874	0.005	469928794	200.0	226.7	
2	2.891	2.887	0.004	206351698	200.0	211.0	
						RPD = 7.18	
8 Aldrin							
1	3.101	3.096	0.005	434810605	200.0	231.1	
2	3.112	3.108	0.004	190084665	200.0	209.6	
						RPD = 9.74	
12 Heptachlor epoxide							
1	3.590	3.585	0.005	475783645	200.0	267.7	
2	3.599	3.594	0.005	211512468	200.0	243.6	
						RPD = 9.40	
9 trans-Chlordane							
1	3.701	3.696	0.005	484858644	200.0	263.3	
2	3.709	3.704	0.005	212727565	200.0	244.0	
						RPD = 7.59	
23 cis-Chlordane							
1	3.826	3.822	0.004	467235447	200.0	262.3	
2	3.835	3.829	0.006	206505006	200.0	241.2	
						RPD = 8.37	
7 Endosulfan I							
1	3.883	3.878	0.005	461511782	200.0	253.3	
2	3.978	3.973	0.005	203931428	200.0	250.3	
						RPD = 1.17	
25 4,4'-DDE							
1	3.971	3.965	0.006	460177556	200.0	269.2	
2	3.890	3.884	0.006	200547762	200.0	231.2	
						RPD = 15.20	
30 Dieldrin							
1	4.223	4.218	0.005	528576208	200.0	272.8	
2	4.229	4.224	0.005	231709973	200.0	260.3	
						RPD = 4.67	
20 Endrin							
1	4.469	4.464	0.005	492917460	200.0	307.0	
2	4.474	4.469	0.005	216310366	200.0	271.9	
						RPD = 12.16	
16 4,4'-DDD							
1	4.518	4.513	0.005	444492796	200.0	298.5	
2	4.521	4.516	0.005	192971983	200.0	274.9	
						RPD = 8.24	
11 Endosulfan II							
1	4.688	4.684	0.004	463140664	200.0	286.9	
2	4.691	4.687	0.004	200490868	200.0	268.1	
						RPD = 6.78	
21 4,4'-DDT							
1	4.778	4.774	0.004	422691249	200.0	247.8	
2	4.781	4.777	0.004	176973314	200.0	231.5	
						RPD = 6.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Endrin aldehyde							
1	5.003	5.000	0.003	360784682	200.0	270.3	
2	5.004	5.001	0.003	154319590	200.0	265.8	
						RPD = 1.66	
3 Endosulfan sulfate							
1	5.116	5.114	0.002	251702269	200.0	273.1	
2	5.282	5.279	0.003	168990509	200.0	260.1	
						RPD = 4.87	
10 Methoxychlor							
1	5.213	5.210	0.003	224278681	200.0	178.8	
2	5.116	5.114	0.002	108439620	200.0	279.4	
						RPD = 43.90	
34 Mirex							
1	5.282	5.280	0.002	398056771	200.0	261.6	
2	5.215	5.213	0.002	94506888	200.0	179.9	
						RPD = 37.00	
13 Endrin ketone							
1	5.457	5.455	0.002	546866479	200.0	299.6	
2	5.456	5.454	0.002	207541657	200.0	279.2	
						RPD = 7.05	
$ 24 DCB Decachlorobiphenyl							
1	6.262	6.261	0.001	89050548	100.0	59.7	
2	6.256	6.255	0.001	36457686	100.0	57.0	
						RPD = 4.65	

Reagents:

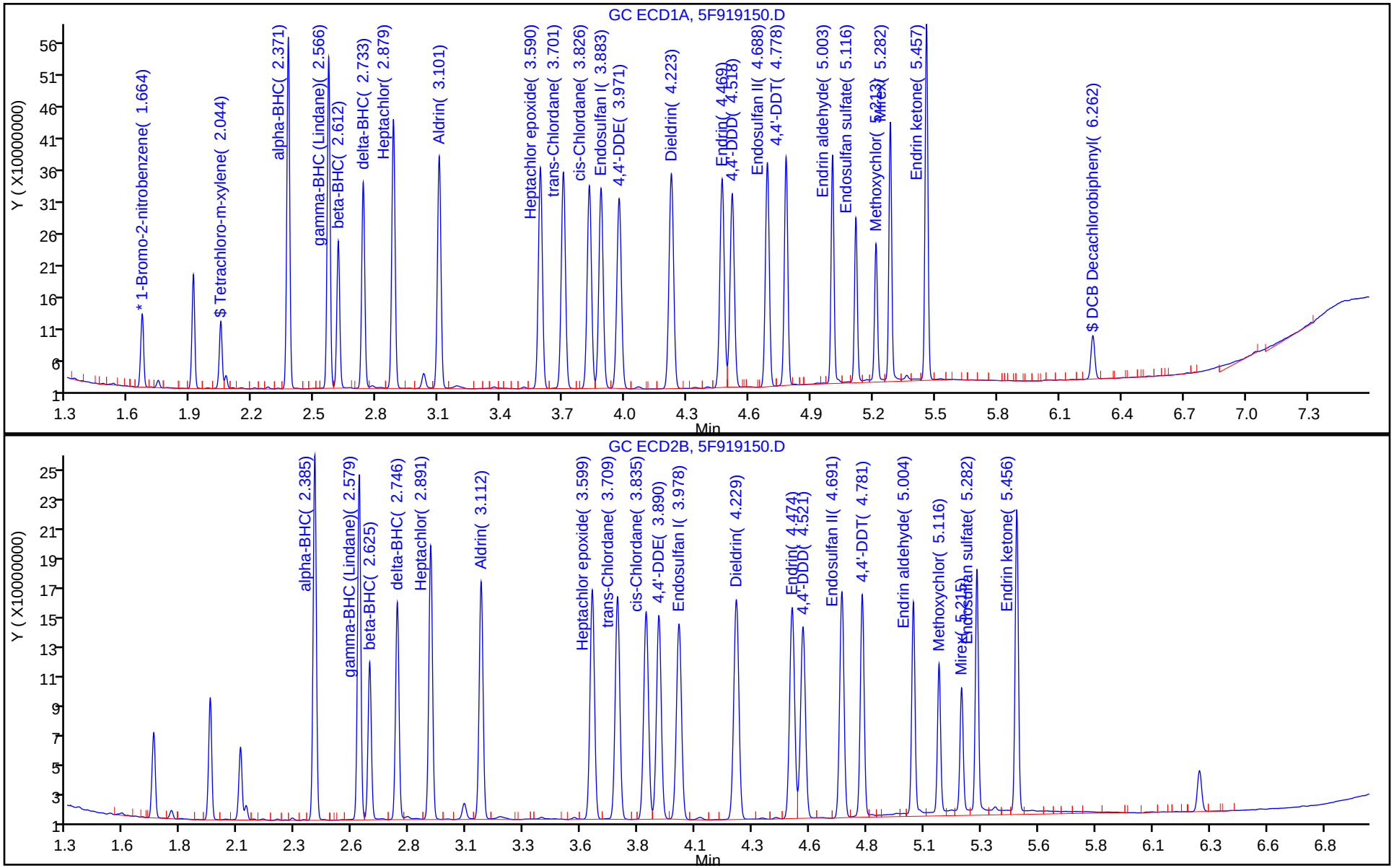
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 11:45:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC5\20180321-69092.b\5F919150.D

Injection Date:	21-Mar-2018 09:47:29	Instrument ID:	CPESTGC5	Operator ID:	
Lims ID:	460-152194-J-4-A MSD			Worklist Smp#:	9
Client ID:	SW-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	GC 5 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-H MSD

Matrix: Solid | Lab File ID: P4076583.D

Analysis Method: 8081B | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0123(g) | Date Analyzed: 03/22/2018 14:27

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	*4,4'-DDD*	*0.152*		*0.0074*	*0.0013*
72-55-9	*4,4'-DDE*	*0.152*		*0.0074*	*0.00088*
50-29-3	*4,4'-DDT*	*0.141*		*0.0074*	*0.0014*
309-00-2	*Aldrin*	*0.140*		*0.0074*	*0.0011*
319-84-6	*alpha-BHC*	*0.148*		*0.0022*	*0.00075*
319-85-7	*beta-BHC*	*0.147*		*0.0022*	*0.00083*
12789-03-6	*Chlordane (technical)*	*0.018*	*U*	*0.074*	*0.018*
319-86-8	*delta-BHC*	*0.145*		*0.0022*	*0.00045*
60-57-1	*Dieldrin*	*0.151*		*0.0022*	*0.00096*
959-98-8	*Endosulfan I*	*0.148*		*0.0074*	*0.0011*
33213-65-9	*Endosulfan II*	*0.144*		*0.0074*	*0.0019*
1031-07-8	*Endosulfan sulfate*	*0.145*		*0.0074*	*0.00093*
72-20-8	*Endrin*	*0.152*		*0.0074*	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.143*		*0.0074*	*0.0018*
53494-70-5	Endrin ketone	0.153		0.0074	0.0014
58-89-9	*gamma-BHC (Lindane)*	*0.143*		*0.0022*	*0.00069*
76-44-8	*Heptachlor*	*0.140*		*0.0074*	*0.00088*
1024-57-3	*Heptachlor epoxide*	*0.145*		*0.0074*	*0.0011*
72-43-5	Methoxychlor	0.144		0.0074	0.0017
8001-35-2	*Toxaphene*	*0.027*	*U*	*0.074*	*0.027*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		69-150
877-09-8	Tetrachloro-m-xylene	95		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D
Lims ID: 460-152046-E-4-H MSD
Client ID:
Sample Type: MSD
Inject. Date: 22-Mar-2018 14:27:13 ALS Bottle#: 27 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 14:40:53 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 14:40:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.564	1.558	0.006	40654325	100.0	100.0	
2	1.411	1.404	0.007	50804699	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.063	2.055	0.008	19317434	50.0	47.6	
2	1.738	1.732	0.006	22308809	50.0	46.4	
						RPD = 2.63	
15 alpha-BHC							a
1	2.453	2.446	0.007	116929051	200.0	199.7	a
2	2.026	2.019	0.007	153448741	200.0	219.2	a
						RPD = 9.28	
2 gamma-BHC (Lindane)							
1	2.693	2.685	0.008	105199346	200.0	193.5	
2	2.203	2.197	0.006	139334567	200.0	217.9	
						RPD = 11.86	
6 beta-BHC							
1	2.741	2.734	0.007	47172909	200.0	198.7	
2	2.247	2.241	0.006	60670838	200.0	219.0	
						RPD = 9.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 delta-BHC							a
1	2.964	2.955	0.009	108901137	200.0	196.4	a
2	2.354	2.349	0.005	143440400	200.0	224.7	a
						RPD = 13.42	
18 Heptachlor							
1	3.029	3.022	0.007	102376512	200.0	189.9	
2	2.483	2.478	0.005	134803780	200.0	214.9	
						RPD = 12.33	
8 Aldrin							
1	3.299	3.289	0.010	96124552	200.0	189.1	
2	2.666	2.662	0.004	122659924	200.0	211.2	
						RPD = 11.03	
12 Heptachlor epoxide							
1	3.825	3.815	0.010	90640410	200.0	196.0	
2	3.070	3.066	0.004	117504605	200.0	214.6	
						RPD = 9.09	
9 trans-Chlordane							
1	4.026	4.019	0.007	90747343	200.0	196.1	
2	3.163	3.158	0.005	117591394	200.0	216.1	
						RPD = 9.70	
23 cis-Chlordane							
1	4.192	4.182	0.010	87495716	200.0	199.9	
2	3.264	3.259	0.005	113158122	200.0	213.9	
						RPD = 6.74	
7 Endosulfan I							
1	4.263	4.253	0.010	85140582	200.0	200.8	
2	3.374	3.370	0.004	114184855	200.0	221.1	
						RPD = 9.63	
25 4,4'-DDE							
1	4.362	4.353	0.009	89681649	200.0	205.3	
2	3.320	3.316	0.004	115040444	200.0	219.1	
						RPD = 6.50	
30 Dieldrin							
1	4.561	4.551	0.010	94784316	200.0	204.3	
2	3.578	3.574	0.004	124054794	200.0	217.5	
						RPD = 6.23	
20 Endrin							
1	4.843	4.835	0.008	84497118	200.0	205.9	
2	3.794	3.789	0.005	115556889	200.0	219.0	
						RPD = 6.17	
16 4,4'-DDD							
1	4.918	4.913	0.005	75118828	200.0	205.4	
2	3.856	3.854	0.002	99470960	200.0	217.2	
						RPD = 5.56	
11 Endosulfan II							
1	4.999	4.994	0.005	77155739	200.0	195.1	
2	4.019	4.015	0.004	105212680	200.0	211.1	
						RPD = 7.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 4,4'-DDT							
1	5.143	5.139	0.004	73898173	200.0	191.2	
2	4.158	4.154	0.004	100118279	200.0	210.8	
						RPD = 9.74	
5 Endrin aldehyde							
1	5.230	5.226	0.004	64575509	200.0	194.1	
2	4.465	4.462	0.003	86958776	200.0	209.2	
						RPD = 7.51	
3 Endosulfan sulfate							
1	5.419	5.414	0.005	75033942	200.0	196.4	
2	4.859	4.858	0.001	103081958	200.0	202.8	
						RPD = 3.17	
10 Methoxychlor							
1	5.630	5.625	0.005	41053638	200.0	194.6	
2	4.679	4.676	0.003	51315334	200.0	192.8	
						RPD = 0.92	
34 Mirex							
1	5.798	5.792	0.006	48136421	200.0	178.1	
2	4.781	4.779	0.002	67105504	200.0	183.8	
						RPD = 3.16	
13 Endrin ketone							
1	5.829	5.824	0.005	89109051	200.0	207.1	
2	5.053	5.051	0.002	117413765	200.0	204.2	
						RPD = 1.41	
$ 24 DCB Decachlorobiphenyl							
1	6.883	6.879	0.004	15019718	50.0	50.0	
2	5.784	5.784	0.000	22713972	50.0	49.4	
						RPD = 1.39	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

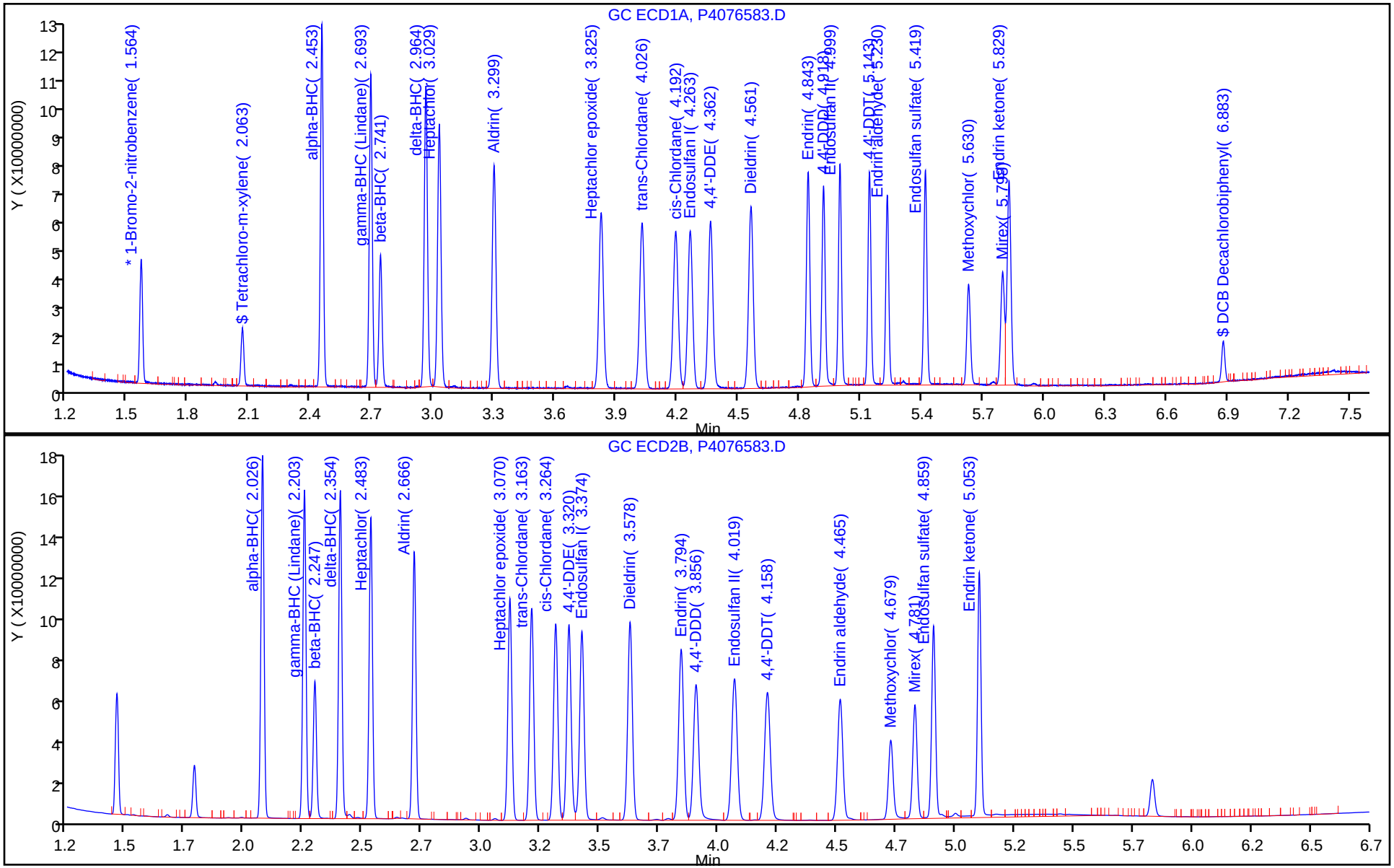
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 14:41:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D

Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152046-E-4-H MSD			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

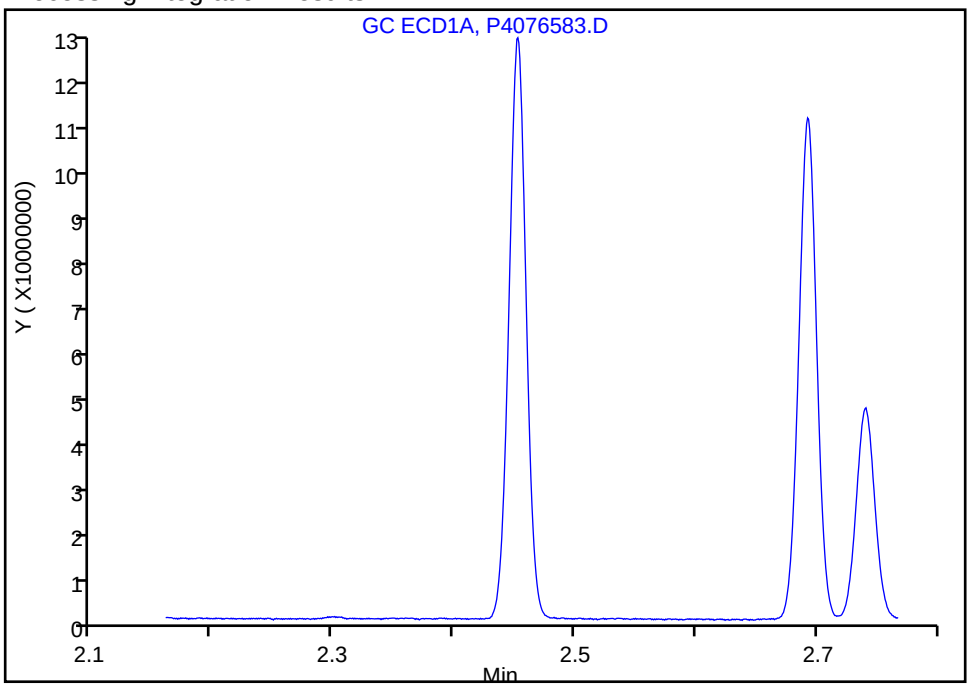
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D				
Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-H MSD				
Client ID:					
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

15 alpha-BHC, CAS: 319-84-6

Signal: 1

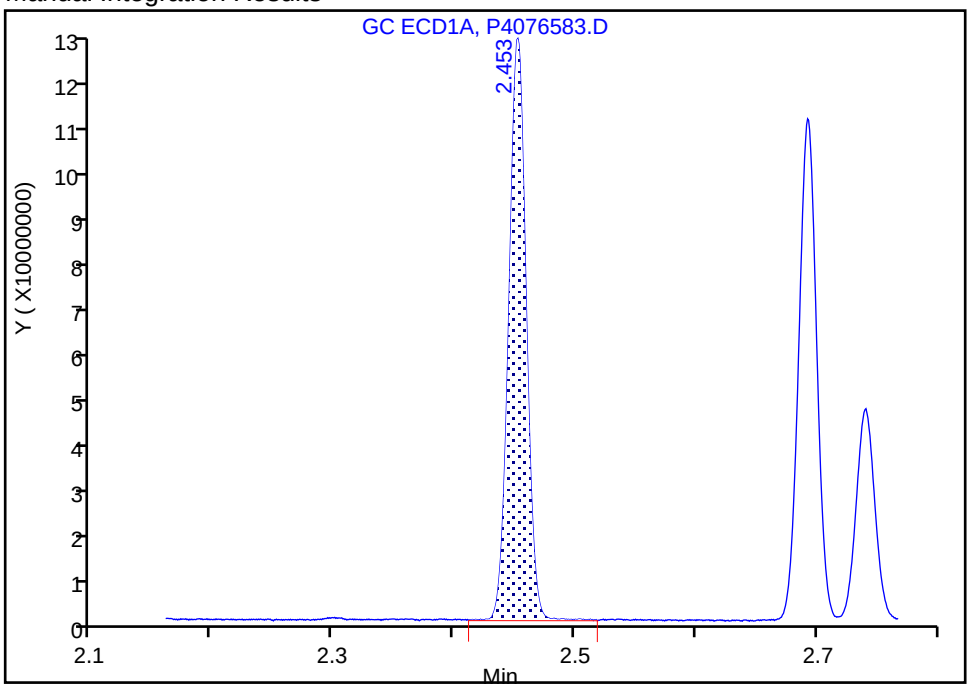
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 116929051
Amount: 199.7281
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:40:24
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

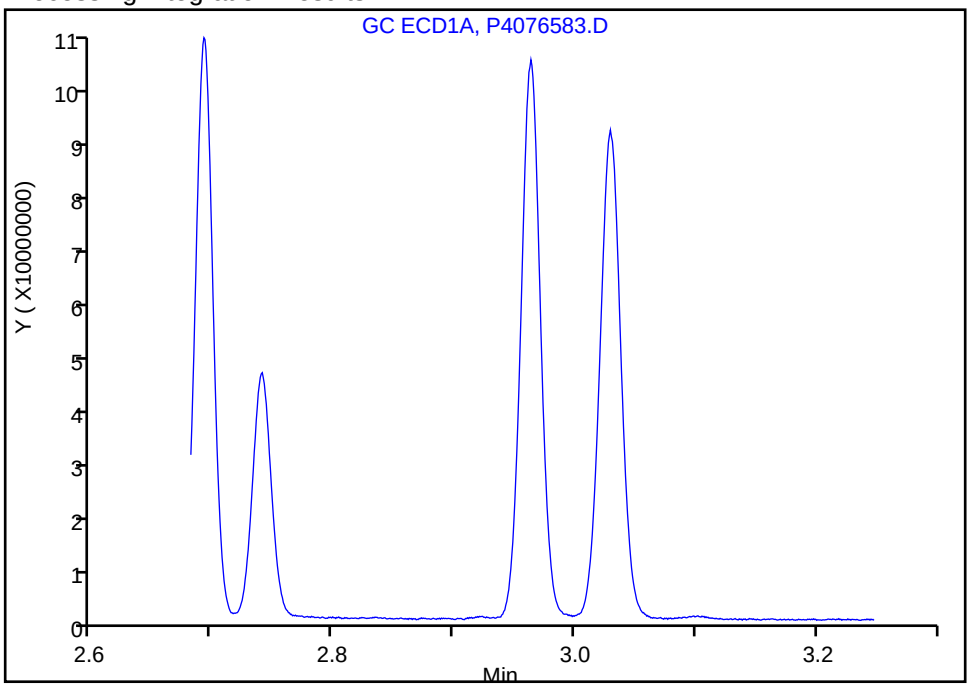
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D				
Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-H MSD				
Client ID:					
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

32 delta-BHC, CAS: 319-86-8

Signal: 1

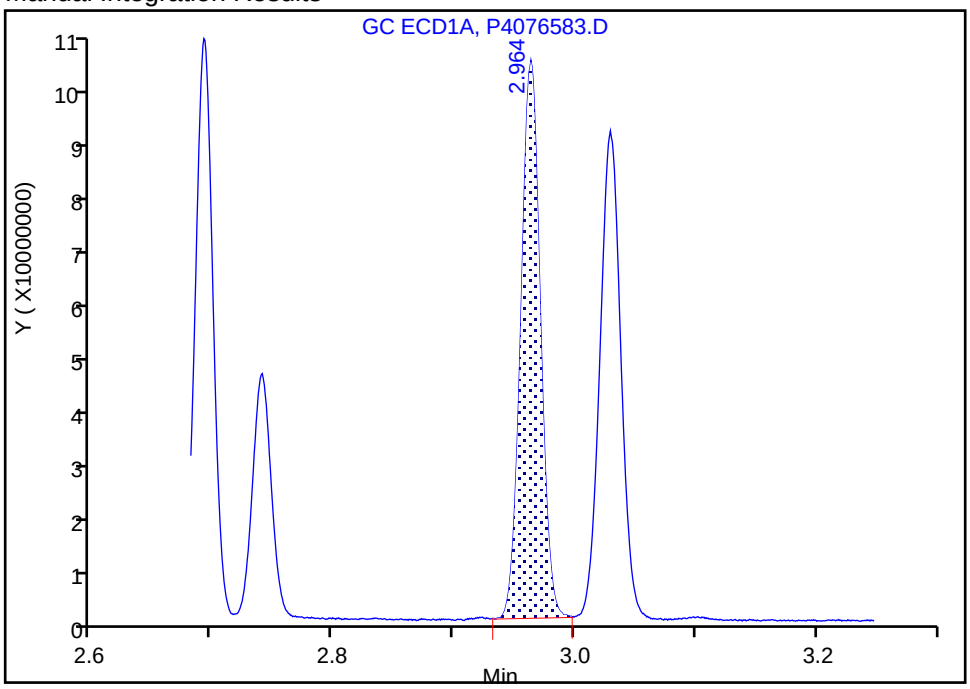
Not Detected
Expected RT: 2.96

Processing Integration Results



Manual Integration Results

RT: 2.96
Area: 108901137
Amount: 196.4326
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:40:39
Audit Action: Assigned Compound ID Audit Reason:

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-H MSD

Matrix: Solid | Lab File ID: P4076583.D

Analysis Method: 8081B | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:42

Sample wt/vol: 15.0123(g) | Date Analyzed: 03/22/2018 14:27

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505161 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.160		0.0074	0.0013
72-55-9	4,4'-DDE	0.162		0.0074	0.00088
50-29-3	4,4'-DDT	0.156		0.0074	0.0014
309-00-2	Aldrin	0.156		0.0074	0.0011
319-84-6	alpha-BHC	0.162		0.0022	0.00075
319-85-7	beta-BHC	0.162		0.0022	0.00083
12789-03-6	Chlordane (technical)	0.018	U	0.074	0.018
319-86-8	delta-BHC	0.166		0.0022	0.00045
60-57-1	Dieldrin	0.161		0.0022	0.00096
959-98-8	Endosulfan I	0.163		0.0074	0.0011
33213-65-9	Endosulfan II	0.156		0.0074	0.0019
1031-07-8	Endosulfan sulfate	0.150		0.0074	0.00093
72-20-8	Endrin	0.162		0.0074	0.0011
7421-93-4	Endrin aldehyde	0.155		0.0074	0.0018
53494-70-5	*Endrin ketone*	*0.151*		*0.0074*	*0.0014*
58-89-9	gamma-BHC (Lindane)	0.161		0.0022	0.00069
76-44-8	Heptachlor	0.159		0.0074	0.00088
1024-57-3	Heptachlor epoxide	0.159		0.0074	0.0011
72-43-5	*Methoxychlor*	*0.142*		*0.0074*	*0.0017*
8001-35-2	Toxaphene	0.027	U	0.074	0.027

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		69-150
877-09-8	Tetrachloro-m-xylene	93		74-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D
Lims ID: 460-152046-E-4-H MSD
Client ID:
Sample Type: MSD
Inject. Date: 22-Mar-2018 14:27:13 ALS Bottle#: 27 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 22-Mar-2018 14:40:53 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK005

First Level Reviewer: kapoors Date: 22-Mar-2018 14:40:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.564	1.558	0.006	40654325	100.0	100.0	
2	1.411	1.404	0.007	50804699	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.063	2.055	0.008	19317434	50.0	47.6	
2	1.738	1.732	0.006	22308809	50.0	46.4	
						RPD = 2.63	
15 alpha-BHC							a
1	2.453	2.446	0.007	116929051	200.0	199.7	a
2	2.026	2.019	0.007	153448741	200.0	219.2	a
						RPD = 9.28	
2 gamma-BHC (Lindane)							
1	2.693	2.685	0.008	105199346	200.0	193.5	
2	2.203	2.197	0.006	139334567	200.0	217.9	
						RPD = 11.86	
6 beta-BHC							
1	2.741	2.734	0.007	47172909	200.0	198.7	
2	2.247	2.241	0.006	60670838	200.0	219.0	
						RPD = 9.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 delta-BHC							a
1	2.964	2.955	0.009	108901137	200.0	196.4	a
2	2.354	2.349	0.005	143440400	200.0	224.7	a
						RPD = 13.42	
18 Heptachlor							
1	3.029	3.022	0.007	102376512	200.0	189.9	
2	2.483	2.478	0.005	134803780	200.0	214.9	
						RPD = 12.33	
8 Aldrin							
1	3.299	3.289	0.010	96124552	200.0	189.1	
2	2.666	2.662	0.004	122659924	200.0	211.2	
						RPD = 11.03	
12 Heptachlor epoxide							
1	3.825	3.815	0.010	90640410	200.0	196.0	
2	3.070	3.066	0.004	117504605	200.0	214.6	
						RPD = 9.09	
9 trans-Chlordane							
1	4.026	4.019	0.007	90747343	200.0	196.1	
2	3.163	3.158	0.005	117591394	200.0	216.1	
						RPD = 9.70	
23 cis-Chlordane							
1	4.192	4.182	0.010	87495716	200.0	199.9	
2	3.264	3.259	0.005	113158122	200.0	213.9	
						RPD = 6.74	
7 Endosulfan I							
1	4.263	4.253	0.010	85140582	200.0	200.8	
2	3.374	3.370	0.004	114184855	200.0	221.1	
						RPD = 9.63	
25 4,4'-DDE							
1	4.362	4.353	0.009	89681649	200.0	205.3	
2	3.320	3.316	0.004	115040444	200.0	219.1	
						RPD = 6.50	
30 Dieldrin							
1	4.561	4.551	0.010	94784316	200.0	204.3	
2	3.578	3.574	0.004	124054794	200.0	217.5	
						RPD = 6.23	
20 Endrin							
1	4.843	4.835	0.008	84497118	200.0	205.9	
2	3.794	3.789	0.005	115556889	200.0	219.0	
						RPD = 6.17	
16 4,4'-DDD							
1	4.918	4.913	0.005	75118828	200.0	205.4	
2	3.856	3.854	0.002	99470960	200.0	217.2	
						RPD = 5.56	
11 Endosulfan II							
1	4.999	4.994	0.005	77155739	200.0	195.1	
2	4.019	4.015	0.004	105212680	200.0	211.1	
						RPD = 7.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 4,4'-DDT							
1	5.143	5.139	0.004	73898173	200.0	191.2	
2	4.158	4.154	0.004	100118279	200.0	210.8	
						RPD = 9.74	
5 Endrin aldehyde							
1	5.230	5.226	0.004	64575509	200.0	194.1	
2	4.465	4.462	0.003	86958776	200.0	209.2	
						RPD = 7.51	
3 Endosulfan sulfate							
1	5.419	5.414	0.005	75033942	200.0	196.4	
2	4.859	4.858	0.001	103081958	200.0	202.8	
						RPD = 3.17	
10 Methoxychlor							
1	5.630	5.625	0.005	41053638	200.0	194.6	
2	4.679	4.676	0.003	51315334	200.0	192.8	
						RPD = 0.92	
34 Mirex							
1	5.798	5.792	0.006	48136421	200.0	178.1	
2	4.781	4.779	0.002	67105504	200.0	183.8	
						RPD = 3.16	
13 Endrin ketone							
1	5.829	5.824	0.005	89109051	200.0	207.1	
2	5.053	5.051	0.002	117413765	200.0	204.2	
						RPD = 1.41	
$ 24 DCB Decachlorobiphenyl							
1	6.883	6.879	0.004	15019718	50.0	50.0	
2	5.784	5.784	0.000	22713972	50.0	49.4	
						RPD = 1.39	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

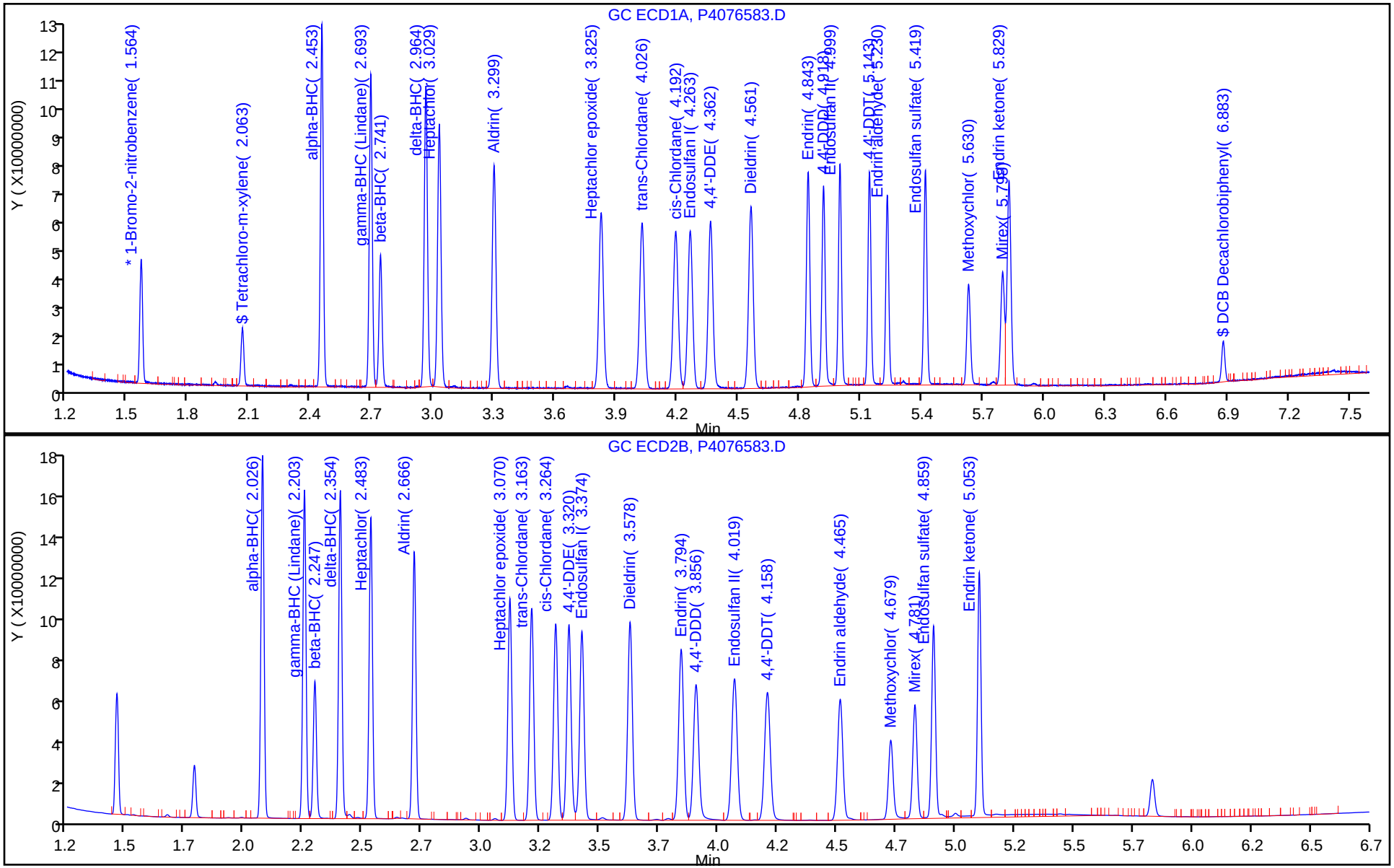
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 22-Mar-2018 14:41:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D

Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-152046-E-4-H MSD			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

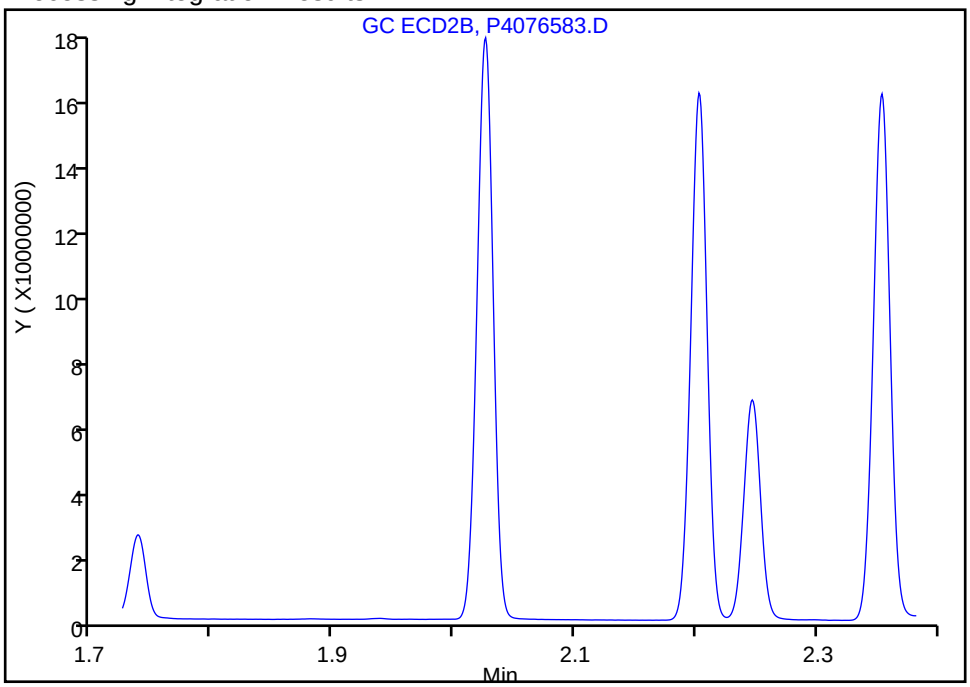
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D				
Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-H MSD				
Client ID:					
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

15 alpha-BHC, CAS: 319-84-6

Signal: 2

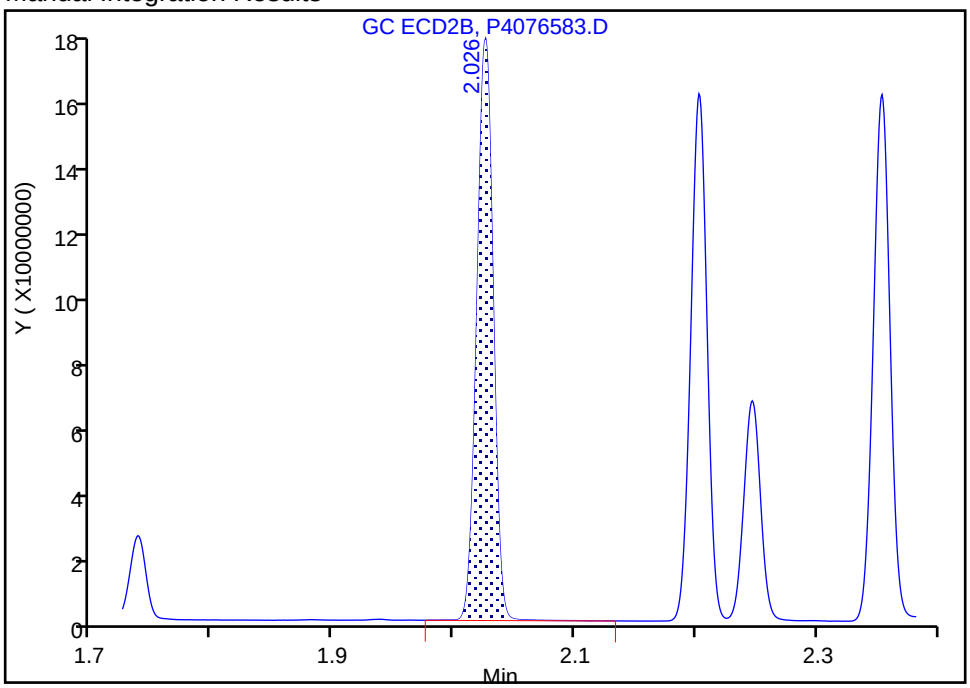
Not Detected
Expected RT: 2.02

Processing Integration Results



Manual Integration Results

RT: 2.03
Area: 153448741
Amount: 219.1614
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:40:32
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

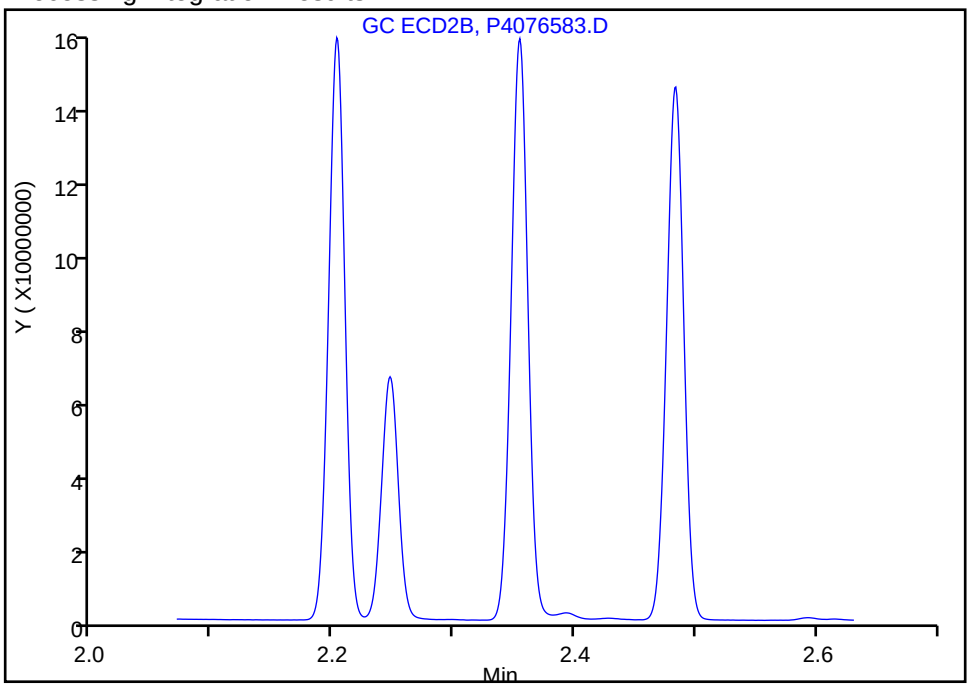
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180322-69118.b\P4076583.D				
Injection Date:	22-Mar-2018 14:27:13	Instrument ID:	CPESTGC4		
Lims ID:	460-152046-E-4-H MSD				
Client ID:					
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

32 delta-BHC, CAS: 319-86-8

Signal: 2

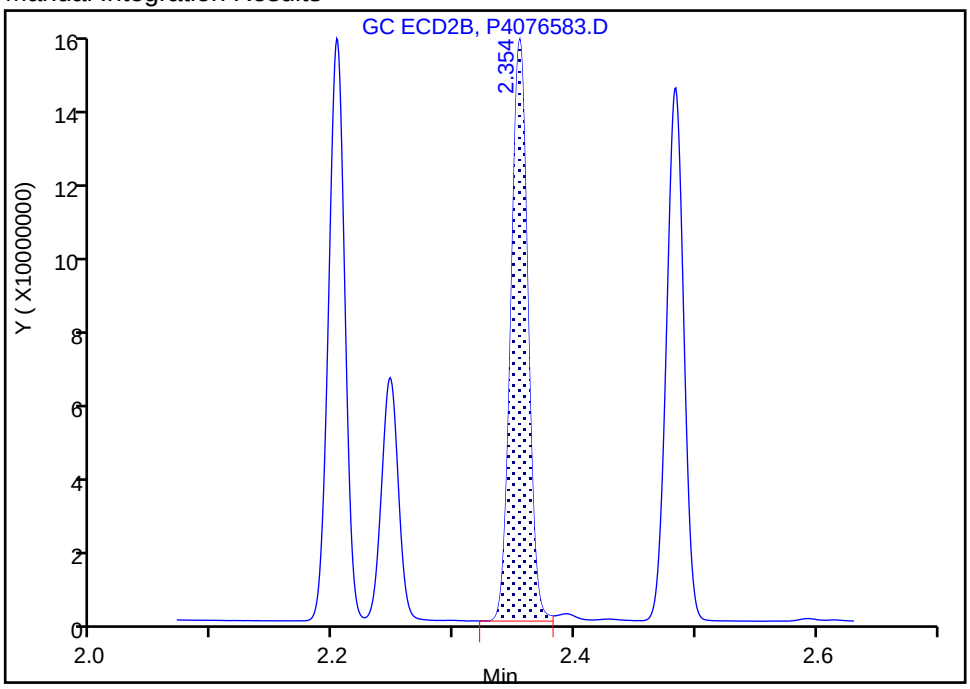
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.35
Area: 143440400
Amount: 224.6824
Amount Units: ug/l



Reviewer: kapoors, 22-Mar-2018 14:40:45
Audit Action: Assigned Compound ID Audit Reason:

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 09/27/2017 07:50

Analysis Batch Number: 465107 End Date: 09/27/2017 11:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/27/2017 07:50	1		CLP-2 0.53(mm)
ZZZZZ		09/27/2017 07:50	1		Rtx-CLP 0.53(mm)
PEM 460-465107/2		09/27/2017 08:03	1		CLP-2 0.53(mm)
PEM 460-465107/2		09/27/2017 08:03	1		Rtx-CLP 0.53(mm)
STD 460-465107/3 IC		09/27/2017 08:22	1	P4004882.D	CLP-2 0.53(mm)
STD 460-465107/3 IC		09/27/2017 08:22	1	P4004882.D	Rtx-CLP 0.53(mm)
STD 460-465107/4 IC		09/27/2017 08:34	1	P4004883.D	CLP-2 0.53(mm)
STD 460-465107/4 IC		09/27/2017 08:34	1	P4004883.D	Rtx-CLP 0.53(mm)
STD 460-465107/5 ICIS		09/27/2017 08:46	1	P4004884.D	CLP-2 0.53(mm)
STD 460-465107/5 ICIS		09/27/2017 08:46	1	P4004884.D	Rtx-CLP 0.53(mm)
STD 460-465107/6 IC		09/27/2017 08:58	1	P4004885.D	CLP-2 0.53(mm)
STD 460-465107/6 IC		09/27/2017 08:58	1	P4004885.D	Rtx-CLP 0.53(mm)
STD 460-465107/7 IC		09/27/2017 09:10	1	P4004886.D	CLP-2 0.53(mm)
STD 460-465107/7 IC		09/27/2017 09:10	1	P4004886.D	Rtx-CLP 0.53(mm)
ICV 460-465107/8		09/27/2017 09:40	1	P4004887.D	CLP-2 0.53(mm)
ICV 460-465107/8		09/27/2017 09:40	1	P4004887.D	Rtx-CLP 0.53(mm)
IC 460-465107/9 ICIS		09/27/2017 09:52	1		CLP-2 0.53(mm)
IC 460-465107/9 ICIS		09/27/2017 09:52	1		Rtx-CLP 0.53(mm)
IC 460-465107/10		09/27/2017 10:11	1	P4004889.D	CLP-2 0.53(mm)
IC 460-465107/10		09/27/2017 10:11	1	P4004889.D	Rtx-CLP 0.53(mm)
IC 460-465107/11		09/27/2017 10:23	1	P4004890.D	CLP-2 0.53(mm)
IC 460-465107/11		09/27/2017 10:23	1	P4004890.D	Rtx-CLP 0.53(mm)
IC 460-465107/12 ICIS		09/27/2017 10:36	1	P4004891.D	CLP-2 0.53(mm)
IC 460-465107/12 ICIS		09/27/2017 10:36	1	P4004891.D	Rtx-CLP 0.53(mm)
IC 460-465107/13		09/27/2017 10:47	1	P4004892.D	CLP-2 0.53(mm)
IC 460-465107/13		09/27/2017 10:47	1	P4004892.D	Rtx-CLP 0.53(mm)
IC 460-465107/14		09/27/2017 10:59	1	P4004893.D	CLP-2 0.53(mm)
IC 460-465107/14		09/27/2017 10:59	1	P4004893.D	Rtx-CLP 0.53(mm)
IC 460-465107/15		09/27/2017 11:11	1	P4004894.D	CLP-2 0.53(mm)
IC 460-465107/15		09/27/2017 11:11	1	P4004894.D	Rtx-CLP 0.53(mm)
IC 460-465107/16		09/27/2017 11:23	1	P4004895.D	CLP-2 0.53(mm)
IC 460-465107/16		09/27/2017 11:23	1	P4004895.D	Rtx-CLP 0.53(mm)
IC 460-465107/17 ICIS		09/27/2017 11:34	1	P4004896.D	CLP-2 0.53(mm)
IC 460-465107/17 ICIS		09/27/2017 11:34	1	P4004896.D	Rtx-CLP 0.53(mm)
IC 460-465107/18		09/27/2017 11:46	1	P4004897.D	CLP-2 0.53(mm)
IC 460-465107/18		09/27/2017 11:46	1	P4004897.D	Rtx-CLP 0.53(mm)
IC 460-465107/19		09/27/2017 11:58	1	P4004898.D	CLP-2 0.53(mm)
IC 460-465107/19		09/27/2017 11:58	1	P4004898.D	Rtx-CLP 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 03/22/2018 09:17

Analysis Batch Number: 505161 End Date: 03/22/2018 14:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 460-505161/2		03/22/2018 09:17	1	P4076558.D	CLP-2 0.53(mm)
PEM 460-505161/2		03/22/2018 09:17	1	P4076558.D	Rtx-CLP 0.53(mm)
CCVIS 460-505161/3		03/22/2018 09:30	1	P4076559.D	CLP-2 0.53(mm)
CCVIS 460-505161/3		03/22/2018 09:30	1	P4076559.D	Rtx-CLP 0.53(mm)
CCV 460-505161/4		03/22/2018 09:41	1	P4076560.D	CLP-2 0.53(mm)
CCV 460-505161/4		03/22/2018 09:41	1	P4076560.D	Rtx-CLP 0.53(mm)
CCV 460-505161/5		03/22/2018 09:53	1	P4076561.D	CLP-2 0.53(mm)
CCV 460-505161/5		03/22/2018 09:53	1	P4076561.D	Rtx-CLP 0.53(mm)
MB 460-504832/1-A		03/22/2018 10:13	1	P4076562.D	CLP-2 0.53(mm)
MB 460-504832/1-A		03/22/2018 10:13	1	P4076562.D	Rtx-CLP 0.53(mm)
LCS 460-504832/2-A		03/22/2018 10:25	1	P4076563.D	CLP-2 0.53(mm)
LCS 460-504832/2-A		03/22/2018 10:25	1	P4076563.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 10:37	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 10:37	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 10:49	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 10:49	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 11:00	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 11:00	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 11:12	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 11:12	1		Rtx-CLP 0.53(mm)
460-152136-2		03/22/2018 11:24	1	P4076568.D	CLP-2 0.53(mm)
460-152136-2		03/22/2018 11:24	1	P4076568.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 11:36	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 11:36	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 11:48	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 11:48	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 12:00	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 12:00	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 12:12	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 12:12	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 12:24	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 12:24	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 12:36	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 12:36	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 12:49	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 12:49	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 13:01	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 13:01	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 13:13	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 13:13	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 13:49	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 13:49	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 14:02	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 14:02	1		Rtx-CLP 0.53(mm)
460-152046-E-4-G MS		03/22/2018 14:14	1	P4076582.D	CLP-2 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 03/22/2018 09:17

Analysis Batch Number: 505161 End Date: 03/22/2018 14:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
460-152046-E-4-G MS		03/22/2018 14:14	1	P4076582.D	Rtx-CLP 0.53(mm)
460-152046-E-4-H MSD		03/22/2018 14:27	1	P4076583.D	CLP-2 0.53(mm)
460-152046-E-4-H MSD		03/22/2018 14:27	1	P4076583.D	Rtx-CLP 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC5 Start Date: 02/08/2018 14:42

Analysis Batch Number: 495906 End Date: 02/08/2018 18:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/08/2018 14:42	1		CLP-2 0.53(mm)
ZZZZZ		02/08/2018 14:42	1		Rtx-CLP 0.53(mm)
PEM 460-495906/2		02/08/2018 14:55	1		CLP-2 0.53(mm)
PEM 460-495906/2		02/08/2018 14:55	1		Rtx-CLP 0.53(mm)
STD 460-495906/3 IC		02/08/2018 15:07	1	5F917980.D	CLP-2 0.53(mm)
STD 460-495906/3 IC		02/08/2018 15:07	1	5F917980.D	Rtx-CLP 0.53(mm)
STD 460-495906/4 IC		02/08/2018 15:20	1	5F917981.D	CLP-2 0.53(mm)
STD 460-495906/4 IC		02/08/2018 15:20	1	5F917981.D	Rtx-CLP 0.53(mm)
STD 460-495906/5 ICIS		02/08/2018 15:33	1	5F917982.D	CLP-2 0.53(mm)
STD 460-495906/5 ICIS		02/08/2018 15:33	1	5F917982.D	Rtx-CLP 0.53(mm)
STD 460-495906/6 IC		02/08/2018 15:46	1	5F917983.D	CLP-2 0.53(mm)
STD 460-495906/6 IC		02/08/2018 15:46	1	5F917983.D	Rtx-CLP 0.53(mm)
STD 460-495906/7 IC		02/08/2018 15:59	1	5F917984.D	CLP-2 0.53(mm)
STD 460-495906/7 IC		02/08/2018 15:59	1	5F917984.D	Rtx-CLP 0.53(mm)
ZZZZZ		02/08/2018 16:12	1		CLP-2 0.53(mm)
ZZZZZ		02/08/2018 16:12	1		Rtx-CLP 0.53(mm)
ICV 460-495906/9		02/08/2018 16:25	1	5F917986.D	CLP-2 0.53(mm)
ICV 460-495906/9		02/08/2018 16:25	1	5F917986.D	Rtx-CLP 0.53(mm)
IC 460-495906/10		02/08/2018 16:38	1	5F917987.D	CLP-2 0.53(mm)
IC 460-495906/10		02/08/2018 16:38	1	5F917987.D	Rtx-CLP 0.53(mm)
IC 460-495906/11		02/08/2018 16:50	1	5F917988.D	CLP-2 0.53(mm)
IC 460-495906/11		02/08/2018 16:50	1	5F917988.D	Rtx-CLP 0.53(mm)
IC 460-495906/12 ICIS		02/08/2018 17:03	1	5F917989.D	CLP-2 0.53(mm)
IC 460-495906/12 ICIS		02/08/2018 17:03	1	5F917989.D	Rtx-CLP 0.53(mm)
IC 460-495906/13		02/08/2018 17:16	1	5F917990.D	CLP-2 0.53(mm)
IC 460-495906/13		02/08/2018 17:16	1	5F917990.D	Rtx-CLP 0.53(mm)
IC 460-495906/14		02/08/2018 17:29	1	5F917991.D	CLP-2 0.53(mm)
IC 460-495906/14		02/08/2018 17:29	1	5F917991.D	Rtx-CLP 0.53(mm)
IC 460-495906/15 ICIS		02/08/2018 17:42	1		CLP-2 0.53(mm)
IC 460-495906/15 ICIS		02/08/2018 17:42	1		Rtx-CLP 0.53(mm)
IC 460-495906/16		02/08/2018 17:55	1	5F917993.D	CLP-2 0.53(mm)
IC 460-495906/16		02/08/2018 17:55	1	5F917993.D	Rtx-CLP 0.53(mm)
IC 460-495906/17		02/08/2018 18:07	1	5F917994.D	CLP-2 0.53(mm)
IC 460-495906/17		02/08/2018 18:07	1	5F917994.D	Rtx-CLP 0.53(mm)
IC 460-495906/18 ICIS		02/08/2018 18:20	1	5F917995.D	CLP-2 0.53(mm)
IC 460-495906/18 ICIS		02/08/2018 18:20	1	5F917995.D	Rtx-CLP 0.53(mm)
IC 460-495906/19		02/08/2018 18:33	1	5F917996.D	CLP-2 0.53(mm)
IC 460-495906/19		02/08/2018 18:33	1	5F917996.D	Rtx-CLP 0.53(mm)
IC 460-495906/20		02/08/2018 18:46	1	5F917997.D	CLP-2 0.53(mm)
IC 460-495906/20		02/08/2018 18:46	1	5F917997.D	Rtx-CLP 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC5 Start Date: 03/21/2018 07:10

Analysis Batch Number: 505044 End Date: 03/21/2018 16:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 460-505044/2		03/21/2018 07:10	1	5F919143.D	CLP-2 0.53(mm)
PEM 460-505044/2		03/21/2018 07:10	1	5F919143.D	Rtx-CLP 0.53(mm)
CCVIS 460-505044/3		03/21/2018 07:23	1	5F919144.D	CLP-2 0.53(mm)
CCVIS 460-505044/3		03/21/2018 07:23	1	5F919144.D	Rtx-CLP 0.53(mm)
CCV 460-505044/4		03/21/2018 07:36	1	5F919145.D	CLP-2 0.53(mm)
CCV 460-505044/4		03/21/2018 07:36	1	5F919145.D	Rtx-CLP 0.53(mm)
CCV 460-505044/5		03/21/2018 07:49	1	5F919146.D	CLP-2 0.53(mm)
CCV 460-505044/5		03/21/2018 07:49	1	5F919146.D	Rtx-CLP 0.53(mm)
MB 460-504710/1-A		03/21/2018 09:08	1	5F919147.D	CLP-2 0.53(mm)
MB 460-504710/1-A		03/21/2018 09:08	1	5F919147.D	Rtx-CLP 0.53(mm)
LCS 460-504710/2-A		03/21/2018 09:21	1	5F919148.D	CLP-2 0.53(mm)
LCS 460-504710/2-A		03/21/2018 09:21	1	5F919148.D	Rtx-CLP 0.53(mm)
460-152194-I-4-A MS		03/21/2018 09:34	1	5F919149.D	CLP-2 0.53(mm)
460-152194-I-4-A MS		03/21/2018 09:34	1	5F919149.D	Rtx-CLP 0.53(mm)
460-152194-J-4-A MSD		03/21/2018 09:47	1	5F919150.D	CLP-2 0.53(mm)
460-152194-J-4-A MSD		03/21/2018 09:47	1	5F919150.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 10:00	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:00	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 10:13	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:13	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 10:26	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:26	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 12:50	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:50	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:03	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:03	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:16	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:16	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:28	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:28	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:41	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:41	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:54	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:54	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:07	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:07	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:20	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:20	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:33	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:33	1		Rtx-CLP 0.53(mm)
460-152136-1		03/21/2018 14:46	1	5F919164.D	CLP-2 0.53(mm)
460-152136-1		03/21/2018 14:46	1	5F919164.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:59	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:59	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 16:16	1		CLP-2 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC5 Start Date: 03/21/2018 07:10

Analysis Batch Number: 505044 End Date: 03/21/2018 16:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2018 16:16	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 16:29	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 16:29	1		Rtx-CLP 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504710 Batch Start Date: 03/20/18 08:04 Batch Analyst: Maraon, Alissandra N

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	OP_PESTSP_LVI 00017	OPPSPCBSU_LVI 00014	AnalysisComment
MB 460-504710/1		3510C, 8081B		250 mL	1 mL	7 SU		50 uL	
LCS 460-504710/2		3510C, 8081B		250 mL	1 mL	7 SU	50 uL	50 uL	
460-152194-I-4 MS		3510C, 8081B	T	250 mL	1 mL	5 SU	50 uL	50 uL	
460-152194-J-4 MSD		3510C, 8081B	T	250 mL	1 mL	5 SU	50 uL	50 uL	
460-152136-G-1	Recharge Basin	3510C, 8081B	T	250 mL	1 mL	5 SU		50 uL	SPLIT

Batch Notes	
Batch Comment	8081 Pest
Analyst ID - Concentration	am
Concentration 1 Corrected Temperature	37 Degrees C
Concentration 2 Corrected Temperature	37 Degrees C
Equipment ID - Concentration 1	41888
Equipment ID - Concentration 2	31869
Exchange Solvent ID	HEXANE 187677
Analyst ID - Extraction	am
Method/Fraction	8081 Pest
Na2SO4 ID	171698
Pipette/Syringe/Dispenser ID	PEST
Prep Solvent ID	MeCl2 192931
Prep Solvent Volume Used	60 mL
Analyst ID - Spike Analyst	am
Sufficient Volume for Batch QC	Yes
Thermometer ID - Concentration 1	31020
Thermometer ID - Concentration 2	31869
Concentration 1 Uncorrected Temperature	37 Degrees C
Concentration 2 Uncorrected Temperature	37 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504710 Batch Start Date: 03/20/18 08:04 Batch Analyst: Maraon, Alissandra N

Batch Method: 3510C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504832 Batch Start Date: 03/20/18 14:42 Batch Analyst: Rivera, Rene A

Batch Method: 3546 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP_PESTSP 00027	OPPSTPCBSURR 00011		
MB 460-504832/1		3546, 8081B		15.0000 g	10 mL		50 uL		
LCS 460-504832/2		3546, 8081B		15.0000 g	10 mL	100 uL	50 uL		
460-152046-E-4 MS		3546, 8081B	T	15.0121 g	10 mL	100 uL	50 uL		
460-152046-E-4 MSD		3546, 8081B	T	15.0123 g	10 mL	100 uL	50 uL		
460-152136-E-2	Ash Pit	3546, 8081B	T	15.0126 g	10 mL		50 uL		

Batch Notes	
Balance ID	A1
Batch Comment	PEST-SOIL
Analyst ID - Concentration	RAR
Exchange Solvent ID	187677 (HEXANE) - 133166 (Acetone) - 192931 (MeCl2)
Florisil ID	(SW3620) Lot #S18-000616
Method/Fraction	8081
Microwave Oven ID	MD4965/5095/1952
Na2SO4 ID	171698 (Silica Sand Lot #148376)
Analyst ID - Spike Analyst	RAR

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8082A

Polychlorinated Biphenyls (PCBs) by Gas Chromatography

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCBP1 #	DCBP2 #
Ash Pit	460-152136-2	137	99
	MB 460-504830/1-A	113	98
	LCS 460-504830/2-A	118	110
	460-152046-E-4-D MS	102	97
	460-152046-E-4-E MSD	109	101

	QC LIMITS
DCBP = DCB Decachlorobiphenyl	53-150

Column to be used to flag recovery values

FORM II 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCBP1 #	DCBP2 #
Recharge Basin	460-152136-1	70	66
	MB 460-504716/1-A	109	104
	LCS 460-504716/2-A	113	109
	LCSD 460-504716/3-A	113	108

	QC LIMITS
DCBP = DCB Decachlorobiphenyl	10-150

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7R013927.D

Lab ID: LCS 460-504716/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor 1016	4.00	3.98	99	78-150	
Aroclor 1016	4.00	3.67	92	78-150	
Aroclor 1260	4.00	4.71	118	80-150	
Aroclor 1260	4.00	4.34	108	80-150	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: T142251.D

Lab ID: LCS 460-504830/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor 1016	0.333	0.338	102	76-146	
Aroclor 1016	0.333	0.322	97	76-146	
Aroclor 1260	0.333	0.347	104	74-148	
Aroclor 1260	0.333	0.322	96	74-148	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7R013928.D

Lab ID: LCSD 460-504716/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Aroclor 1016	4.00	3.96	99	1	30	78-150	
Aroclor 1016	4.00	3.67	92	0	30	78-150	
Aroclor 1260	4.00	4.69	117	1	30	80-150	
Aroclor 1260	4.00	4.36	109	1	30	80-150	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: T142252.D

Lab ID: 460-152046-E-4-D MS Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Aroclor 1016	0.369	0.0099 U	0.356	96	76-146	
Aroclor 1016	0.369	0.0099 U	0.379	103	76-146	
Aroclor 1260	0.369	0.010 U	0.356	96	74-148	
Aroclor 1260	0.369	0.010 U	0.344	93	74-148	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: T142253.D

Lab ID: 460-152046-E-4-E MSD Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Aroclor 1016	0.369	0.338	92	5	30	76-146	
Aroclor 1016	0.369	0.438	119	14	30	76-146	
Aroclor 1260	0.369	0.354	96	1	30	74-148	
Aroclor 1260	0.369	0.334	90	3	30	74-148	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: MB 460-504716/1-A

Matrix: Water Date Extracted: 03/20/2018 08:25

Lab File ID:(1) 7R013926.D Lab File ID:(2) 7R013926.D

Date Analyzed:(1) 03/21/2018 08:11 Date Analyzed:(2) 03/21/2018 08:11

Instrument ID:(1) CPESTGC7 Instrument ID:(2) CPESTGC7

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-504716/2-A	03/21/2018 08:35	03/21/2018 08:35
	LCSD 460-504716/3-A	03/21/2018 08:58	03/21/2018 08:58
Recharge Basin	460-152136-1	03/21/2018 14:28	03/21/2018 14:28

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: MB 460-504830/1-A

Matrix: Solid Date Extracted: 03/20/2018 14:37

Lab File ID:(1) T142250.D Lab File ID:(2) T142250.D

Date Analyzed:(1) 03/22/2018 08:04 Date Analyzed:(2) 03/22/2018 08:04

Instrument ID:(1) CPESTGC11 Instrument ID:(2) CPESTGC11

GC Column:(1) Rtx-CLP ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-504830/2-A	03/22/2018 08:19	03/22/2018 08:19
	460-152046-E-4-D MS	03/22/2018 08:35	03/22/2018 08:35
	460-152046-E-4-E MSD	03/22/2018 08:51	03/22/2018 08:51
Ash Pit	460-152136-2	03/22/2018 14:28	03/22/2018 14:28

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: IC 460-491295/4 Date Analyzed: 01/18/2018 13:21

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): T139539.D Heated Purge: (Y/N) N

Calibration ID: 66135

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		22728043	1.66				
UPPER LIMIT		45456086	1.73				
LOWER LIMIT		11364022	1.59				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-491295/22		22753073	1.66				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: IC 460-491295/4 Date Analyzed: 01/18/2018 13:21

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): T139539.D Heated Purge: (Y/N) N

Calibration ID: 66136

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		34898123	1.40				
UPPER LIMIT		69796246	1.47				
LOWER LIMIT		17449062	1.33				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-491295/22		38486758	1.39				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505165/2 Date Analyzed: 03/22/2018 07:05

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): T142249.D Heated Purge: (Y/N) N

Calibration ID: 66177

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		36089513	1.46				
UPPER LIMIT		72179026	1.53				
LOWER LIMIT		18044757	1.39				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504830/1-A		34954537	1.47				
LCS 460-504830/2-A		33765036	1.46				
460-152046-E-4-D MS		36275581	1.46				
460-152046-E-4-E MSD		36913145	1.46				
460-152136-2	Ash Pit	44908163	1.46				
CCV 460-505165/24		41352233	1.46				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505165/2 Date Analyzed: 03/22/2018 07:05

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): T142249.D Heated Purge: (Y/N) N

Calibration ID: 66178

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		57031058	1.27				
UPPER LIMIT		114062116	1.34				
LOWER LIMIT		28515529	1.20				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504830/1-A		48622706	1.27				
LCS 460-504830/2-A		53673858	1.27				
460-152046-E-4-D MS		57585701	1.27				
460-152046-E-4-E MSD		56994445	1.27				
460-152136-2	Ash Pit	50928121	1.27				
CCV 460-505165/24		61771159	1.27				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: IC 460-487360/4 Date Analyzed: 12/27/2017 13:04

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): 7R011790.D Heated Purge: (Y/N) N

Calibration ID: 65786

		DCBP					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		149852	17.14				
UPPER LIMIT			17.21				
LOWER LIMIT			17.07				
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: IC 460-487360/4 Date Analyzed: 12/27/2017 13:04

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): 7R011790.D Heated Purge: (Y/N) N

Calibration ID: 65787

		DCBP					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		147547	15.43				
UPPER LIMIT			15.50				
LOWER LIMIT			15.36				
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505004/2 Date Analyzed: 03/21/2018 07:39

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): 7R013925.D Heated Purge: (Y/N) N

Calibration ID: 65828

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		48610	3.32				
UPPER LIMIT		97220	3.39				
LOWER LIMIT		24305	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504716/1-A		50806	3.33				
LCS 460-504716/2-A		47196	3.32				
LCSD 460-504716/3-A		46056	3.32				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505004/2 Date Analyzed: 03/21/2018 07:39

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): 7R013925.D Heated Purge: (Y/N) N

Calibration ID: 65829

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		25658	2.89				
UPPER LIMIT		51316	2.96				
LOWER LIMIT		12829	2.82				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-504716/1-A		26951	2.89				
LCS 460-504716/2-A		25117	2.90				
LCSD 460-504716/3-A		24324	2.90				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505006/2 Date Analyzed: 03/21/2018 06:32

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): 8F125839.D Heated Purge: (Y/N) N

Calibration ID: 65749

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4657437	2.28				
UPPER LIMIT		9314874	2.35				
LOWER LIMIT		2328719	2.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-152136-1	Recharge Basin	5299311	2.29				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Sample No.: CCVIS 460-505006/2 Date Analyzed: 03/21/2018 06:32

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): 8F125839.D Heated Purge: (Y/N) N

Calibration ID: 65750

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		10574424	1.92				
UPPER LIMIT		21148848	1.99				
LOWER LIMIT		5287212	1.85				
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-152136-1	Recharge Basin	10322484	1.93				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-504716/2-A

Instrument ID (1): CPESTGC7 Instrument ID (2): CPESTGC7

Date Analyzed (1): 03/21/2018 08:35 Date Analyzed (2): 03/21/2018 08:35

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	5.02	4.95	5.09	3.60	3.67	8.1
		2	5.68	5.61	5.75	3.60		
		3	6.03	5.95	6.09	3.72		
		4	6.49	6.42	6.56	3.79		
		5	6.72	6.65	6.79	3.49		
		7	7.43	7.36	7.50	3.75		
		8	8.08	8.01	8.15	3.74		
	2	1	6.13	6.06	6.20	3.87	3.98	
		2	6.90	6.83	6.97	3.96		
		3	7.72	7.65	7.79	3.99		
		4	7.96	7.89	8.03	3.86		
		5	8.14	8.07	8.21	3.94		
		6	8.78	8.71	8.85	3.95		
		7	8.99	8.92	9.06	4.26		
Aroclor 1260	1	1	9.47	9.39	9.53	3.82	4.34	8.3
		2	10.38	10.31	10.45	3.93		
		3	10.60	10.53	10.67	4.22		
		4	11.07	11.00	11.14	4.20		
		5	11.79	11.72	11.86	4.38		
		6	12.53	12.46	12.60	4.14		
		7	12.79	12.72	12.86	4.97		
		8	14.23	14.16	14.30	5.02		
	2	1	10.72	10.65	10.79	4.34	4.71	
		2	11.04	10.98	11.12	4.15		
		3	11.55	11.48	11.62	4.34		
		4	12.77	12.70	12.84	5.05		
		5	13.57	13.50	13.64	4.90		
		6	14.25	14.18	14.32	4.88		
		7	15.08	15.01	15.15	4.92		
		8	16.23	16.16	16.30	5.09		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-504716/3-A

Instrument ID (1): CPESTGC7 Instrument ID (2): CPESTGC7

Date Analyzed (1): 03/21/2018 08:58 Date Analyzed (2): 03/21/2018 08:58

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	5.02	4.95	5.09	3.59	3.67	7.5
		2	5.68	5.61	5.75	3.61		
		3	6.02	5.95	6.09	3.72		
		4	6.49	6.42	6.56	3.80		
		5	6.72	6.65	6.79	3.46		
		7	7.43	7.36	7.50	3.77		
		8	8.08	8.01	8.15	3.75		
	2	1	6.13	6.06	6.20	3.84	3.96	
		2	6.90	6.83	6.97	3.91		
		3	7.72	7.65	7.79	4.00		
		4	7.96	7.89	8.03	3.83		
		5	8.13	8.07	8.21	3.95		
		6	8.78	8.71	8.85	3.89		
		7	8.99	8.92	9.06	4.26		
Aroclor 1260	1	1	9.47	9.39	9.53	3.86	4.36	7.2
		2	10.38	10.31	10.45	3.98		
		3	10.60	10.53	10.67	4.32		
		4	11.07	11.00	11.14	4.25		
		5	11.79	11.72	11.86	4.36		
		6	12.53	12.46	12.60	4.11		
		7	12.79	12.72	12.86	4.98		
		8	14.23	14.16	14.30	5.00		
	2	1	10.72	10.65	10.79	4.34	4.69	
		2	11.04	10.98	11.12	4.17		
		3	11.55	11.48	11.62	4.34		
		4	12.77	12.70	12.84	4.95		
		5	13.57	13.50	13.64	4.88		
		6	14.24	14.18	14.32	4.87		
		7	15.08	15.01	15.15	4.87		
		8	16.23	16.16	16.30	5.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-504830/2-A

Instrument ID (1): CPESTGC11 Instrument ID (2): CPESTGC11

Date Analyzed (1): 03/22/2018 08:19 Date Analyzed (2): 03/22/2018 08:19

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	2.26	2.23	2.29	0.321	0.322	4.9
		2	2.63	2.60	2.66	0.330		
		3	2.84	2.81	2.87	0.316		
		4	3.13	3.10	3.16	0.310		
		5	3.28	3.24	3.30	0.319		
		6	3.34	3.31	3.37	0.347		
		7	3.74	3.71	3.77	0.314		
		8	4.18	4.14	4.20	0.319		
	2	1	2.93	2.90	2.96	0.338	0.338	
		2	3.42	3.39	3.45	0.336		
		3	3.97	3.94	4.00	0.311		
		4	4.14	4.11	4.17	0.328		
		5	4.26	4.23	4.29	0.386		
		6	4.71	4.68	4.74	0.325		
		7	4.86	4.83	4.89	0.344		
		8	5.23	5.20	5.26	0.340		
Aroclor 1260	1	1	5.16	5.13	5.19	0.302	0.322	7.6
		2	5.84	5.81	5.87	0.286		
		3	6.01	5.97	6.03	0.321		
		4	6.35	6.31	6.37	0.296		
		5	6.84	6.81	6.87	0.349		
		6	7.30	7.27	7.33	0.287		
		7	7.46	7.42	7.48	0.397		
		8	8.51	8.48	8.54	0.335		
	2	1	6.15	6.12	6.18	0.342	0.347	
		2	6.39	6.35	6.41	0.331		
		3	6.73	6.70	6.76	0.325		
		4	7.51	7.48	7.54	0.359		
		5	8.06	8.03	8.09	0.336		
		6	8.60	8.57	8.63	0.352		
		8	10.24	10.20	10.26	0.384		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152046-E-4-D MS

Instrument ID (1): CPESTGC11 Instrument ID (2): CPESTGC11

Date Analyzed (1): 03/22/2018 08:35 Date Analyzed (2): 03/22/2018 08:35

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	2.26	2.23	2.29	0.309	0.379	6.4
		2	2.63	2.60	2.66	0.333		
		3	2.84	2.81	2.87	0.321		
		4	3.13	3.10	3.16	0.313		
		5	3.27	3.24	3.30	0.323		
		6	3.37	3.31	3.37	0.778		
		7	3.74	3.71	3.77	0.322		
		8	4.17	4.14	4.20	0.334		
	2	1	2.93	2.90	2.96	0.356	0.356	
		2	3.42	3.39	3.45	0.353		
		3	3.97	3.94	4.00	0.326		
		4	4.13	4.11	4.17	0.348		
		5	4.26	4.23	4.29	0.404		
		6	4.71	4.68	4.74	0.339		
		7	4.86	4.83	4.89	0.350		
		8	5.23	5.20	5.26	0.368		
Aroclor 1260	1	1	5.16	5.13	5.19	0.323	0.344	3.6
		2	5.84	5.81	5.87	0.312		
		3	6.00	5.97	6.03	0.349		
		4	6.35	6.31	6.37	0.326		
		5	6.83	6.81	6.87	0.374		
		6	7.30	7.27	7.33	0.305		
		7	7.45	7.42	7.48	0.413		
		8	8.51	8.48	8.54	0.349		
	2	1	6.15	6.12	6.18	0.334	0.356	
		2	6.38	6.35	6.41	0.329		
		3	6.73	6.70	6.76	0.332		
		4	7.50	7.48	7.54	0.369		
		5	8.05	8.03	8.09	0.364		
		6	8.60	8.57	8.63	0.368		
		8	10.23	10.20	10.26	0.397		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-152046-E-4-E MSD

Instrument ID (1): CPESTGC11 Instrument ID (2): CPESTGC11

Date Analyzed (1): 03/22/2018 08:51 Date Analyzed (2): 03/22/2018 08:51

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	2.26	2.23	2.29	0.316	0.438	25.8
		2	2.62	2.60	2.66	0.336		
		3	2.84	2.81	2.87	0.322		
		4	3.13	3.10	3.16	0.311		
		5	3.27	3.24	3.30	0.321		
		6	3.37	3.31	3.37	1.25		
		7	3.74	3.71	3.77	0.314		
		8	4.17	4.14	4.20	0.334		
	2	1	2.93	2.90	2.96	0.326	0.338	
		2	3.42	3.39	3.45	0.326		
		3	3.97	3.94	4.00	0.301		
		4	4.13	4.11	4.17	0.319		
		5	4.25	4.23	4.29	0.374		
		6	4.71	4.68	4.74	0.321		
		7	4.86	4.83	4.89	0.331		
		8	5.23	5.20	5.26	0.407		
Aroclor 1260	1	1	5.16	5.13	5.19	0.316	0.334	5.6
		2	5.84	5.81	5.87	0.304		
		3	6.00	5.97	6.03	0.343		
		4	6.34	6.31	6.37	0.318		
		5	6.83	6.81	6.87	0.362		
		6	7.30	7.27	7.33	0.293		
		7	7.45	7.42	7.48	0.395		
		8	8.51	8.48	8.54	0.343		
	2	1	6.15	6.12	6.18	0.341	0.354	
		2	6.38	6.35	6.41	0.330		
		3	6.73	6.70	6.76	0.331		
		4	7.50	7.48	7.54	0.368		
		5	8.05	8.03	8.09	0.359		
		6	8.60	8.57	8.63	0.359		
		8	10.23	10.20	10.26	0.387		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: 8F125858.D

Analysis Method: 8082A | Date Collected: 03/16/2018 11:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 14:28

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505006 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	66		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125858.D
Lims ID: 460-152136-G-1-B
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 21-Mar-2018 14:28:53 ALS Bottle#: 64 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069082-021
Operator ID: Instrument ID: CPESTGC8

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 16:21:59 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene						
1	2.285	2.279	0.006	5299311	20.0	
2	1.932	1.923	0.009	10322484	20.0	
					RPD = 0.00	
$ 11 DCB Decachlorobiphenyl						
1	11.515	11.524	-0.009	10843742	66.1	
2	10.520	10.519	0.001	23902362	70.1	
					RPD = 5.92	

Reagents:

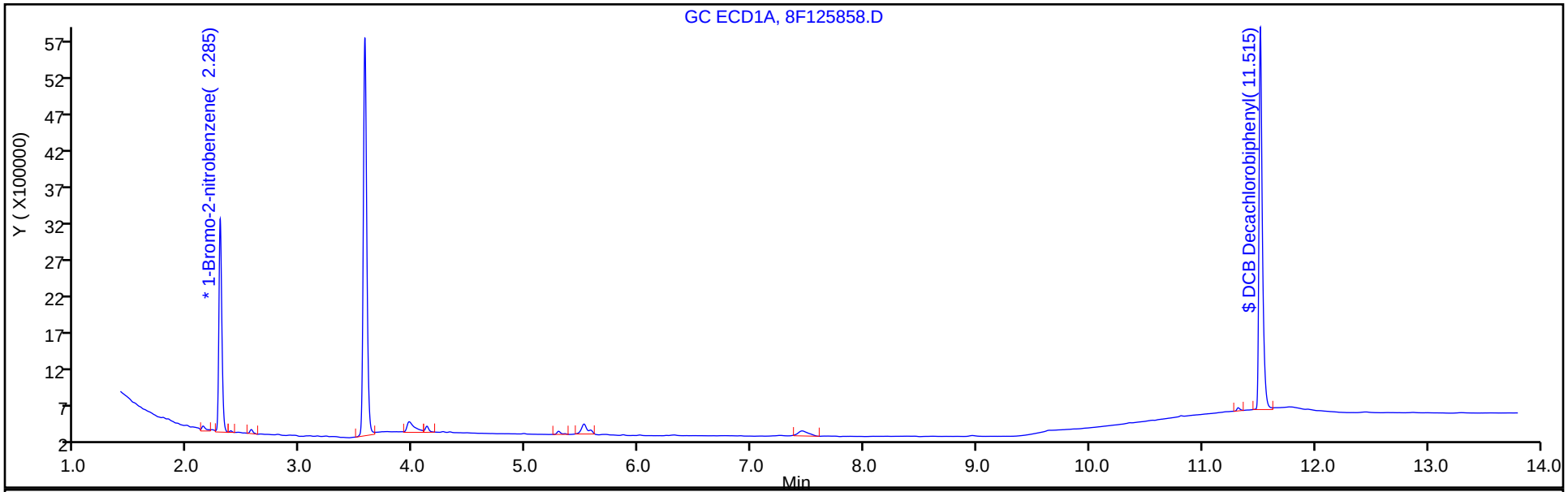
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

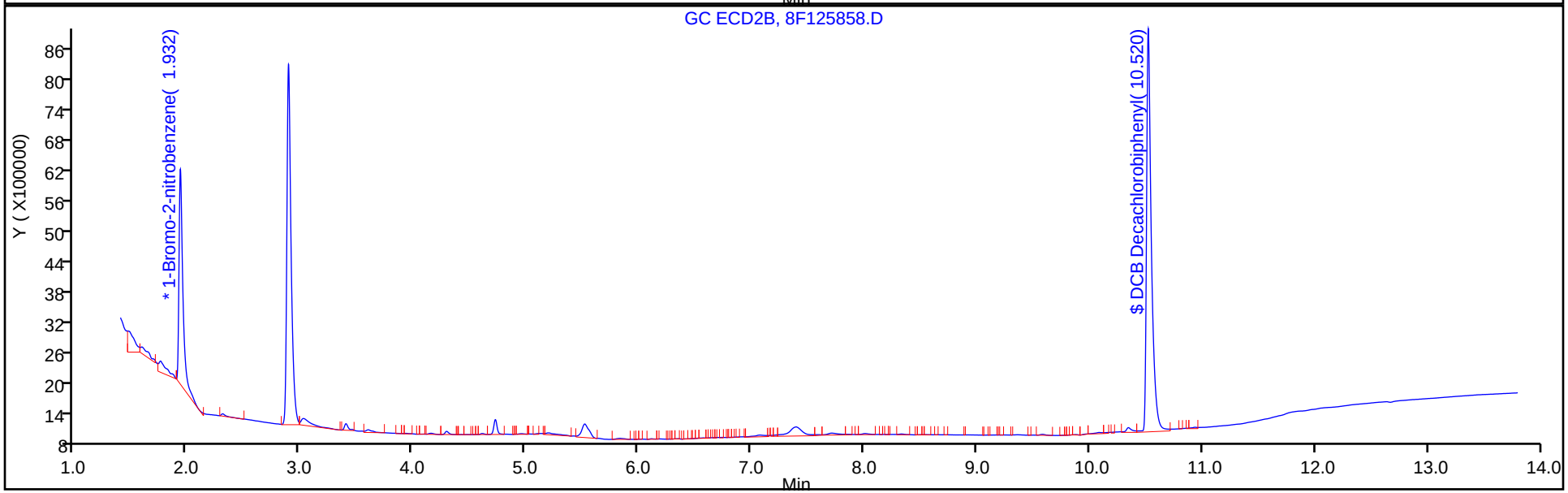
Report Date: 21-Mar-2018 16:22:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125858.D

Injection Date:	21-Mar-2018 14:28:53	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	460-152136-G-1-B	Lab Sample ID:	460-152136-1	Worklist Smp#:	21
Client ID:	Recharge Basin				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	64
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Recharge Basin | Lab Sample ID: 460-152136-1

Matrix: Water | Lab File ID: 8F125858.D

Analysis Method: 8082A | Date Collected: 03/16/2018 11:00

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 14:28

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505006 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.10	U	0.40	0.10
11104-28-2	Aroclor 1221	0.10	U	0.40	0.10
11141-16-5	Aroclor 1232	0.10	U	0.40	0.10
53469-21-9	Aroclor 1242	0.10	U	0.40	0.10
12672-29-6	Aroclor 1248	0.10	U	0.40	0.10
11097-69-1	Aroclor 1254	0.099	U	0.40	0.099
11096-82-5	Aroclor 1260	0.099	U	0.40	0.099
11100-14-4	Aroclor 1268	0.099	U	0.40	0.099
37324-23-5	Aroclor-1262	0.099	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.10	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	70		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125858.D
Lims ID: 460-152136-G-1-B
Client ID: Recharge Basin
Sample Type: Client
Inject. Date: 21-Mar-2018 14:28:53 ALS Bottle#: 64 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069082-021
Operator ID: Instrument ID: CPESTGC8

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 16:21:59 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene						
1	2.285	2.279	0.006	5299311	20.0	
2	1.932	1.923	0.009	10322484	20.0	
					RPD = 0.00	
$ 11 DCB Decachlorobiphenyl						
1	11.515	11.524	-0.009	10843742	66.1	
2	10.520	10.519	0.001	23902362	70.1	
					RPD = 5.92	

Reagents:

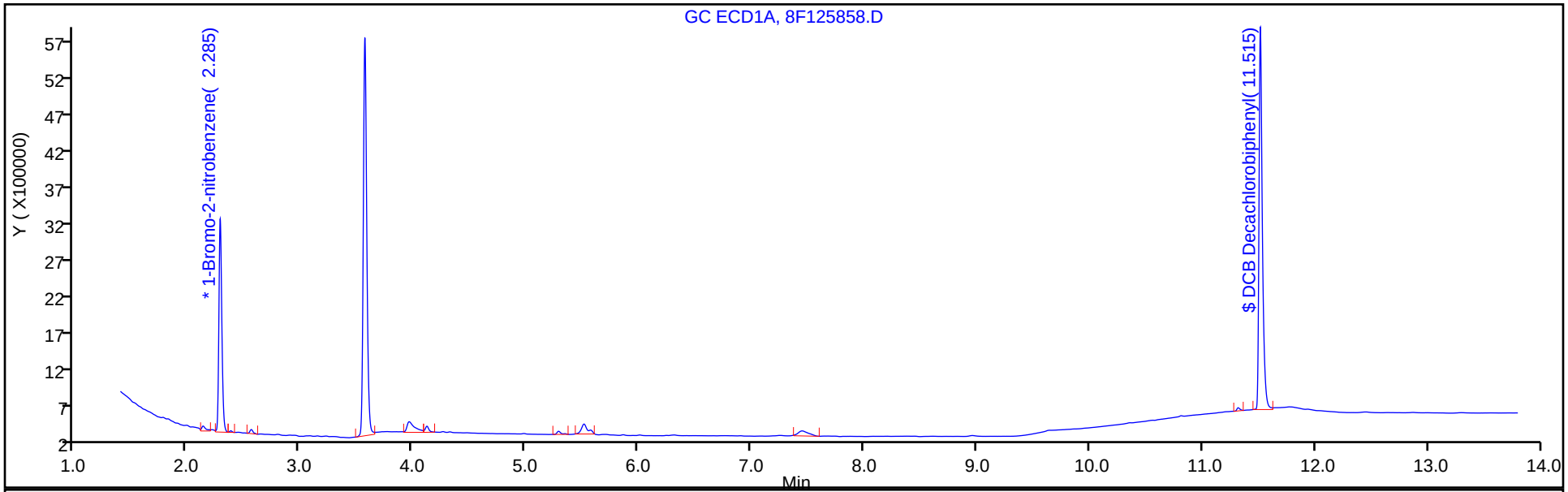
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

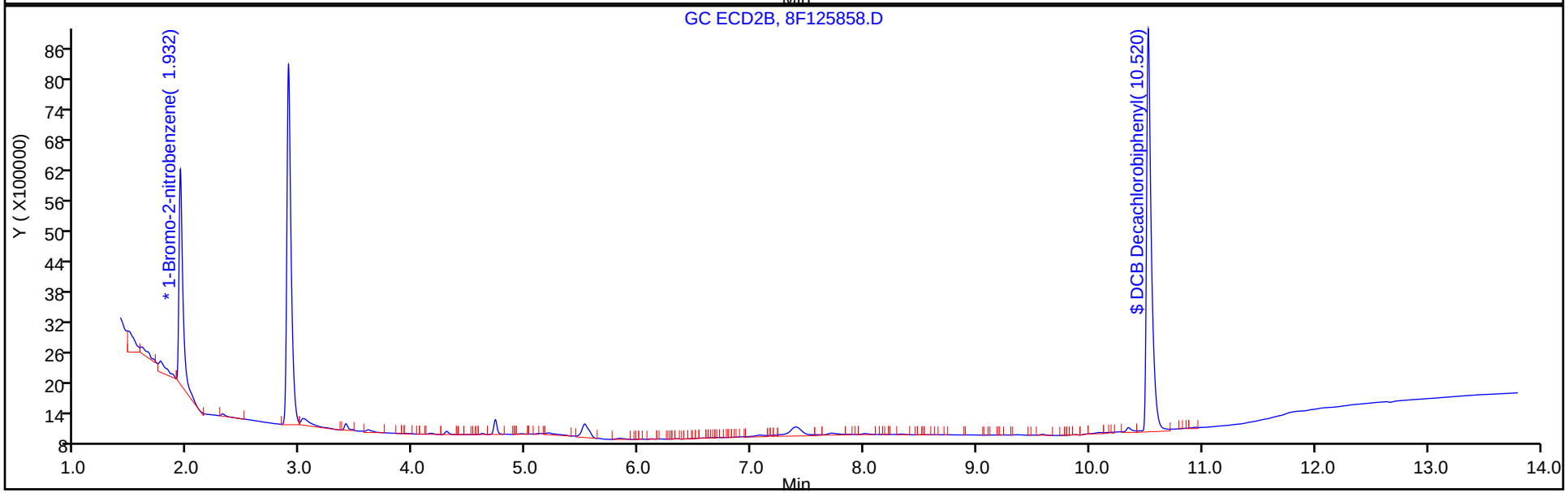
Report Date: 21-Mar-2018 16:22:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125858.D

Injection Date:	21-Mar-2018 14:28:53	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	460-152136-G-1-B	Lab Sample ID:	460-152136-1	Worklist Smp#:	21
Client ID:	Recharge Basin				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	64
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: T142259.D

Analysis Method: 8082A | Date Collected: 03/16/2018 09:45

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0126(g) | Date Analyzed: 03/22/2018 14:28

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D
Lims ID: 460-152136-E-2-D
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 14:28:22 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-012
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 15:07:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene						M
1	1.464	1.461	0.003	44908163	20.0	
2	1.267	1.269	-0.002	50928121	20.0	M
					RPD = 0.00	
$ 11 DCB Decachlorobiphenyl						
1	10.800	10.798	0.002	90758431	49.7	
2	9.520	9.521	-0.001	135927697	68.7	
					RPD = 32.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

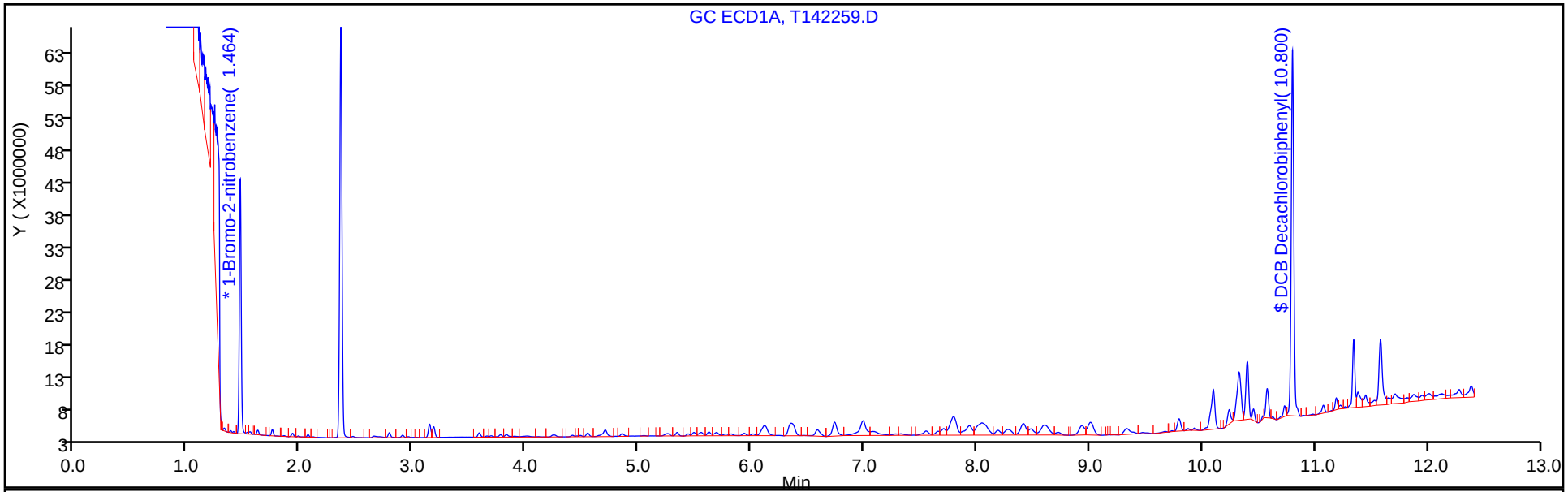
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

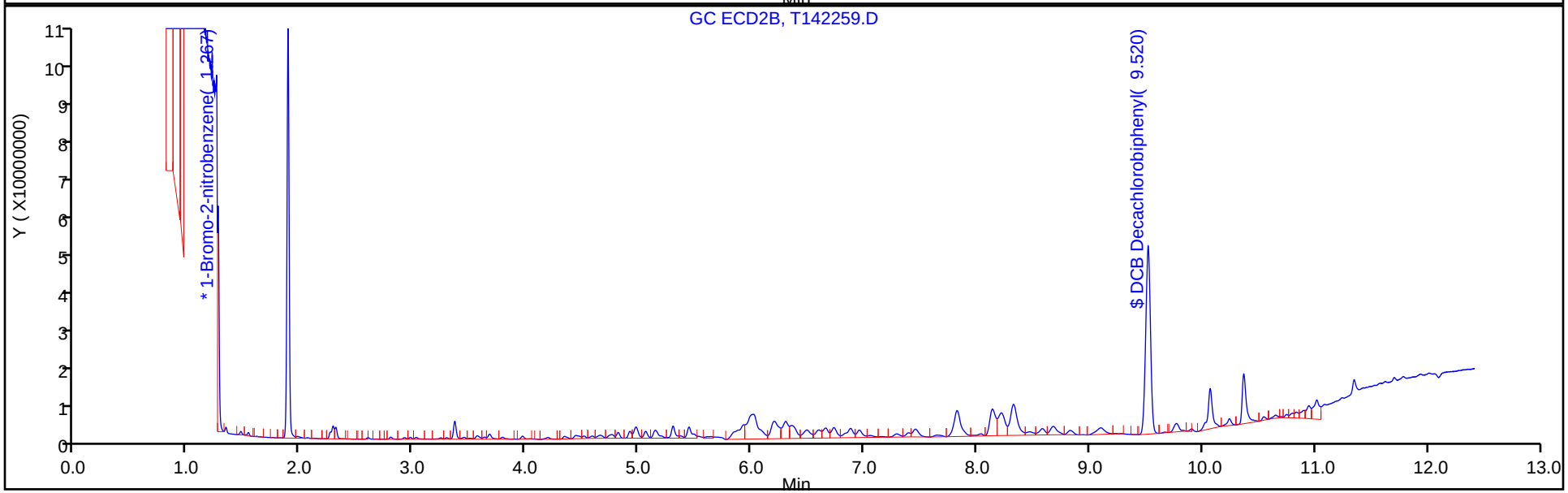
Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2	Worklist Smp#:	12
Client ID:	Ash Pit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date: 22-Mar-2018 14:28:22 Instrument ID: CPESTGC11

Lims ID: 460-152136-E-2-D Lab Sample ID: 460-152136-2

Client ID: Ash Pit

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

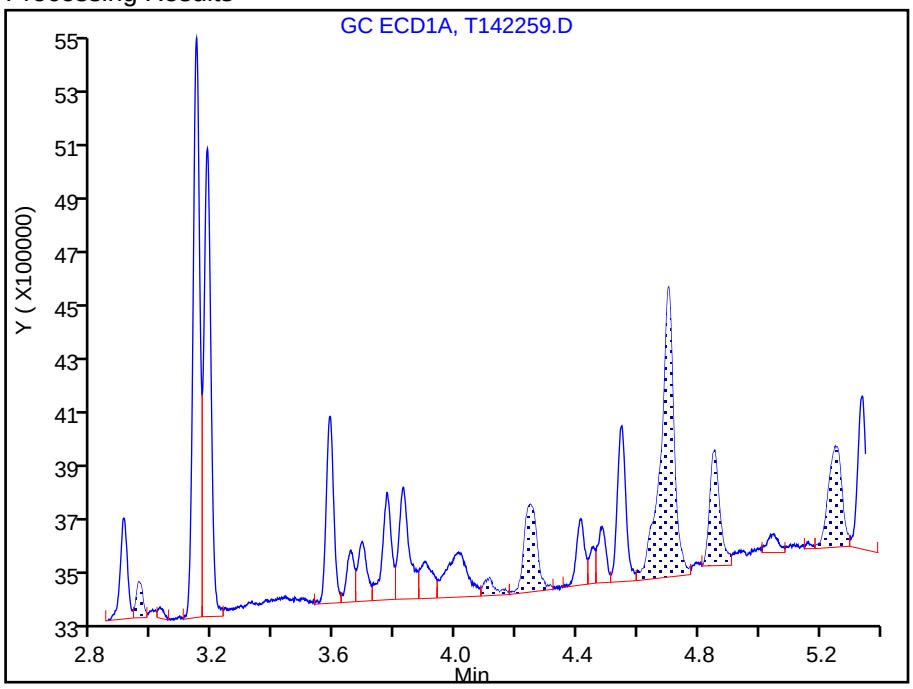
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

5 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.93	2.95	190229	5.718966
3.42			
3.97			
4.14	4.11	156246	2.736567
4.26	4.25	924244	24.220364
4.71	4.70	3117708	69.800896
4.86	4.85	933115	18.201999
5.23	5.25	1097678	27.986872
		Average =	14.575219



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

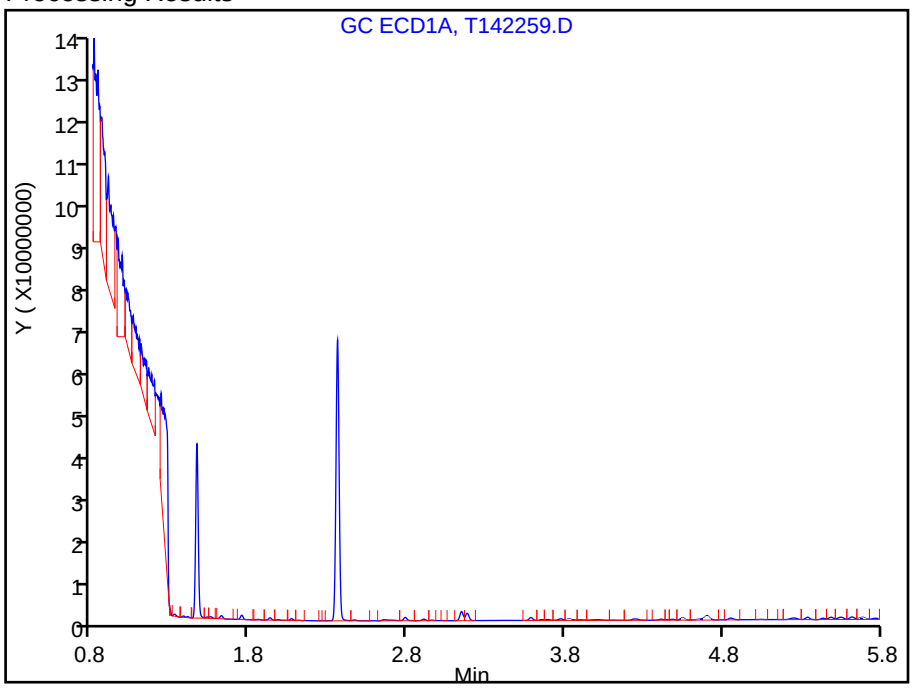
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

3 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.30			
3.80	3.83	955627	30.813230
0.00			
4.56	4.55	1103461	39.773705
4.69	4.70	3117708	148.8585
5.15	5.16	28471	1.530456
0.00			
5.70	5.69	1417015	67.805997
		Average =	20.574771



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

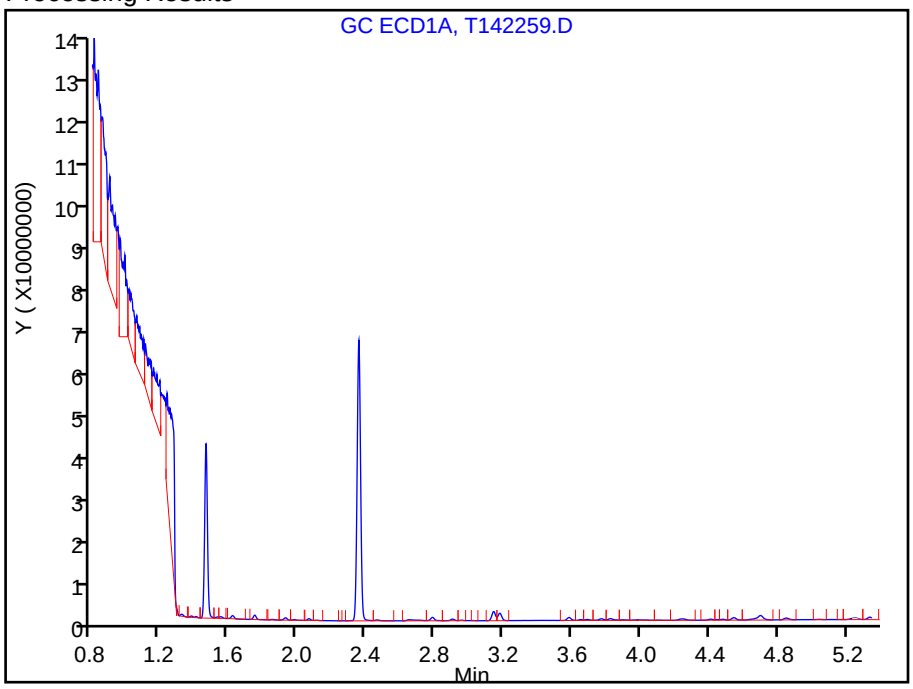
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

4 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.98	2.95	190229	6.631881
3.47			
4.03	4.01	806168	6.695040
0.00			
4.31			
4.90			
0.00			
5.27	5.25	1097678	24.822751
		Average =	11.762914



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

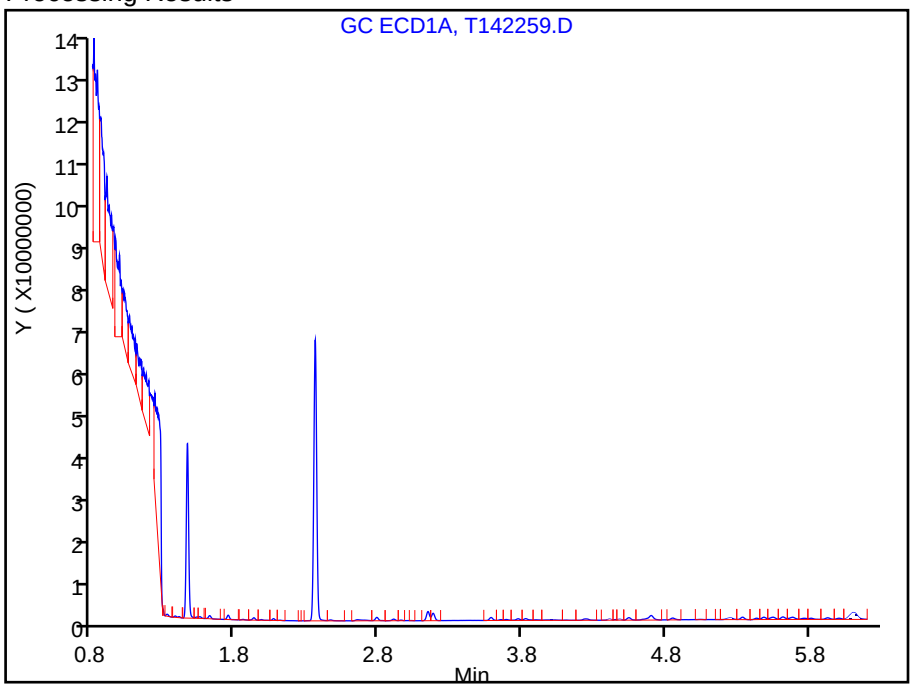
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

6 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
4.03	4.01	806168	10.227113
4.42	4.41	450986	10.587358
4.48	4.48	375166	9.794235
4.90			
0.00			
5.27	5.25	1097678	14.685270
6.12	6.11	5908027	147.0063
		Average =	9.599540



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

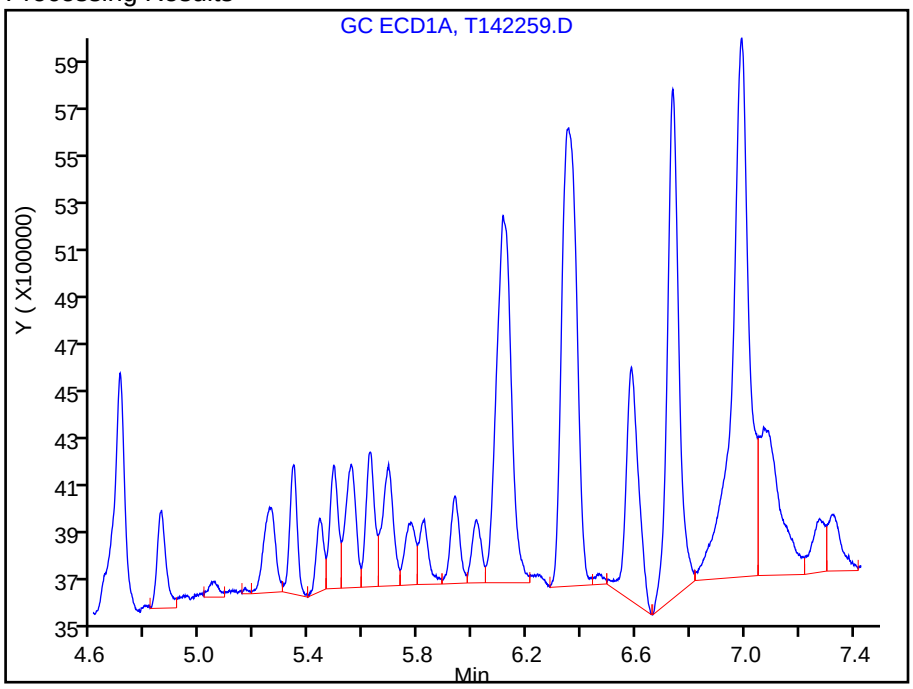
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

7 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.72	4.70	3117708	145.3740
5.24	5.25	1097678	16.389727
5.49	5.49	1112471	14.125110
5.94	5.94	868442	13.784120
6.10	6.11	5908027	48.768508
6.45	6.47	98632	1.105924
7.00	6.99	9798897	124.5453
7.34	7.33	815238	6.432334
		Average =	4.804500



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

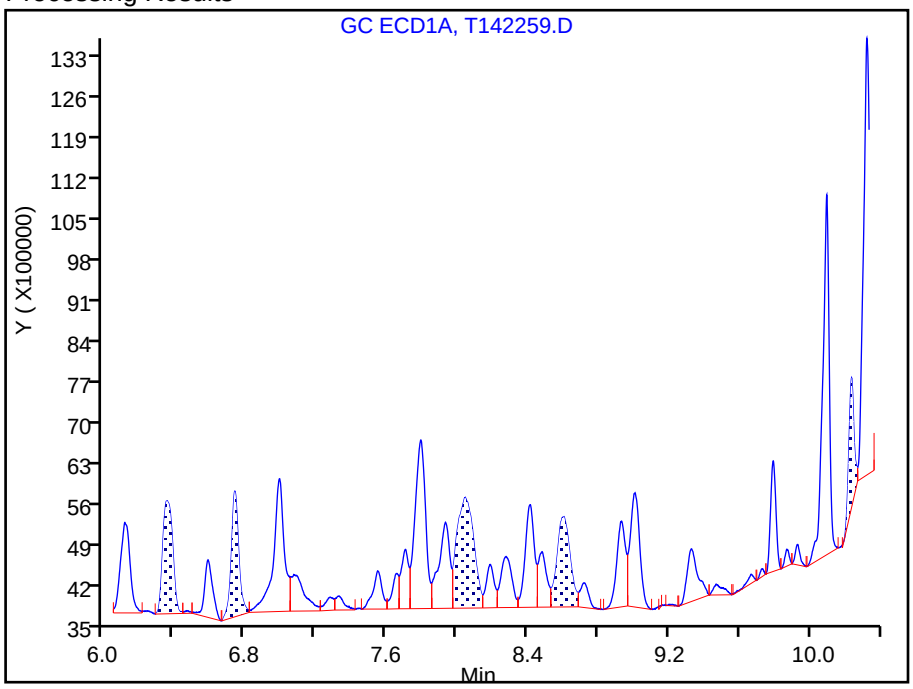
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

8 PCB-1260, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
6.15			
6.38	6.35	7468400	81.689585
6.73	6.74	6248757	57.127475
7.51			
8.05	8.05	12416770	157.3277
8.60	8.61	8019453	40.842257
9.39			
10.23	10.24	4356598	85.967090
		Average =	35.760424



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

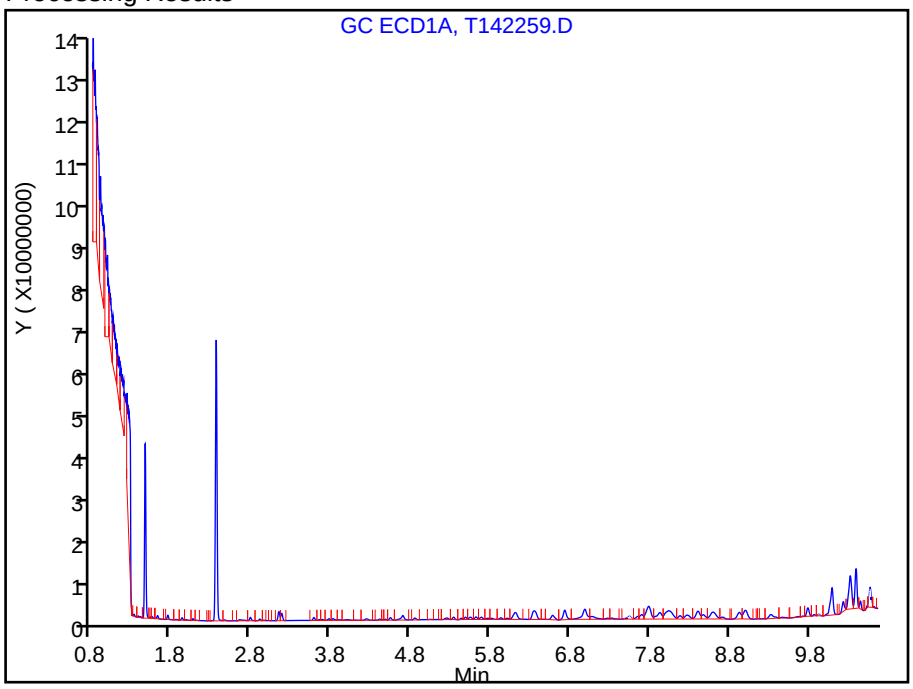
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

10 PCB-1268, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
7.56	7.55	2355274	49.776649
0.00			
0.00			
0.00			
9.92	9.93	657684	2.814969
0.00			
10.60	10.58	7564364	77.483132
0.00			
		Average =	16.036051



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: Ash Pit | Lab Sample ID: 460-152136-2

Matrix: Solid | Lab File ID: T142259.D

Analysis Method: 8082A | Date Collected: 03/16/2018 09:45

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0126(g) | Date Analyzed: 03/22/2018 14:28

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 70.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.030	U	0.22	0.030
11104-28-2	Aroclor 1221	0.030	U	0.22	0.030
11141-16-5	Aroclor 1232	0.030	U	0.22	0.030
53469-21-9	Aroclor 1242	0.030	U	0.22	0.030
12672-29-6	Aroclor 1248	0.030	U	0.22	0.030
11097-69-1	Aroclor 1254	0.031	U	0.22	0.031
11096-82-5	Aroclor 1260	0.031	U	0.22	0.031
11100-14-4	Aroclor 1268	0.031	U	0.22	0.031
37324-23-5	Aroclor-1262	0.031	U	0.22	0.031
1336-36-3	Polychlorinated biphenyls, Total	0.031	U	0.22	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	137		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D
Lims ID: 460-152136-E-2-D
Client ID: Ash Pit
Sample Type: Client
Inject. Date: 22-Mar-2018 14:28:22 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-012
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 15:07:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene						M
1	1.464	1.461	0.003	44908163	20.0	
2	1.267	1.269	-0.002	50928121	20.0	M
					RPD = 0.00	
$ 11 DCB Decachlorobiphenyl						
1	10.800	10.798	0.002	90758431	49.7	
2	9.520	9.521	-0.001	135927697	68.7	
					RPD = 32.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

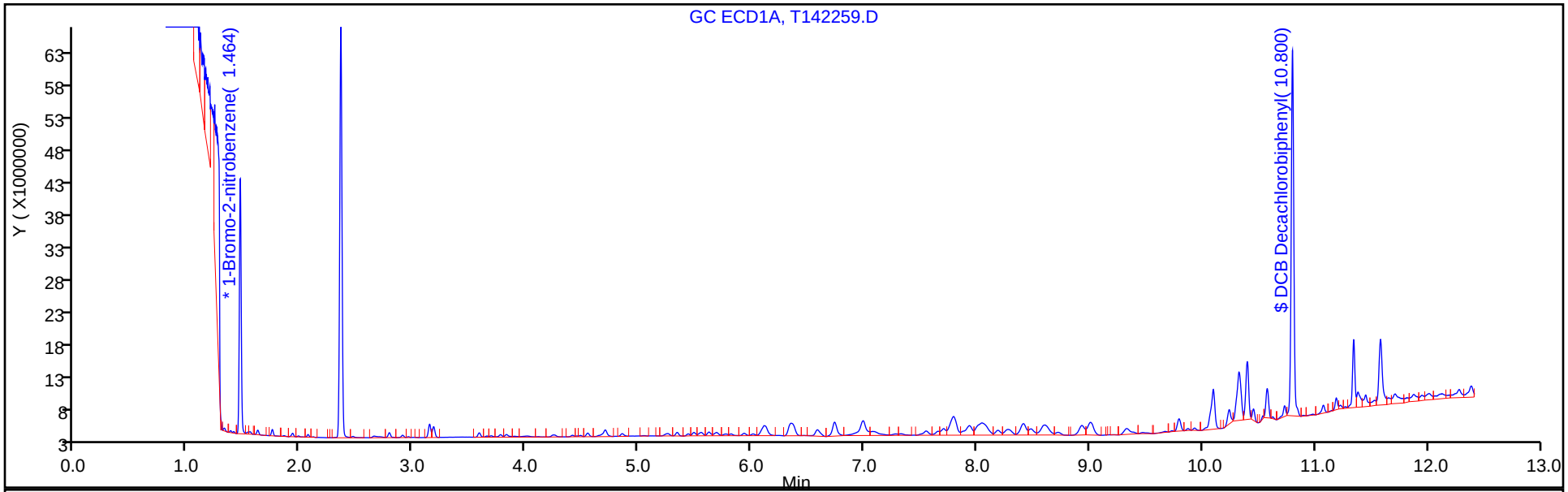
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

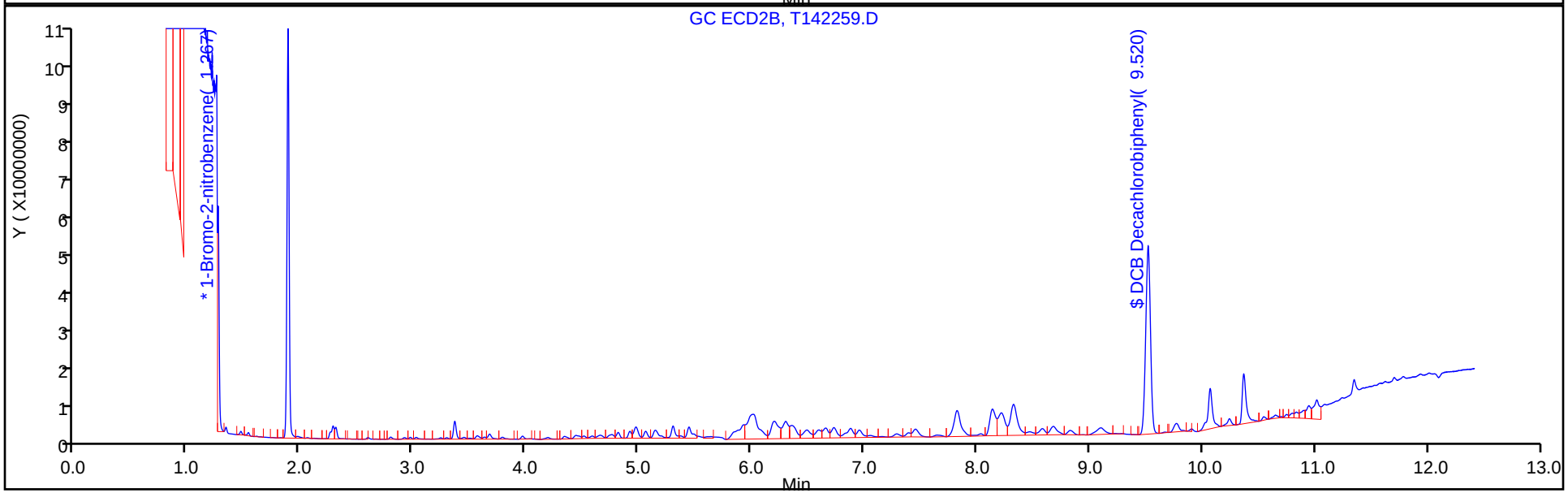
Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2	Worklist Smp#:	12
Client ID:	Ash Pit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

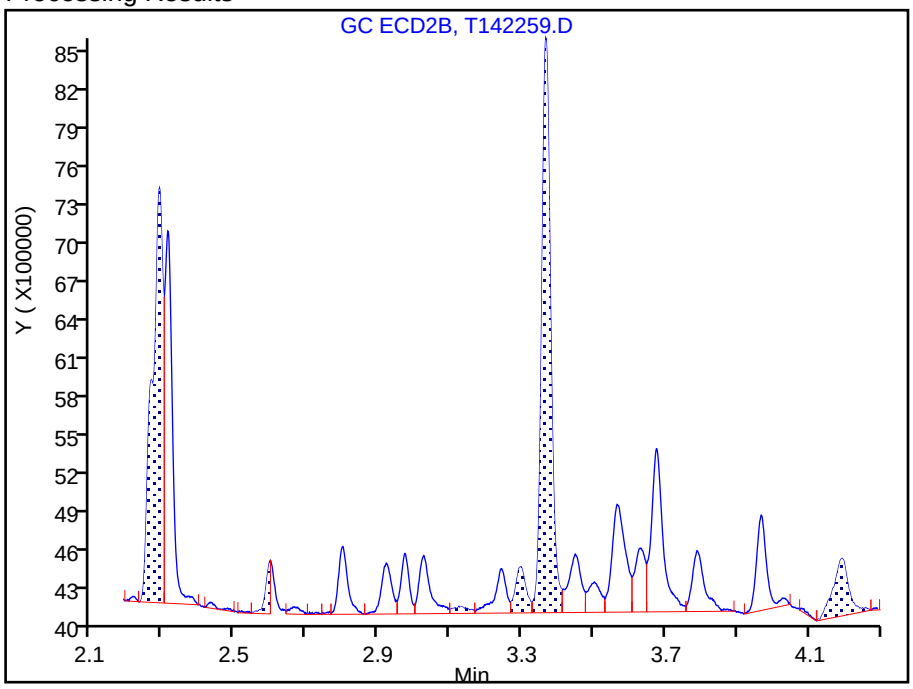
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

5 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.26	2.29	6538013	35.625757
2.63	2.60	346326	0.965863
2.84			
3.13	3.11	150330	0.193686
3.27	3.30	723184	2.322036
3.34	3.37	7657545	40.528253
3.74			
4.17	4.19	1322900	7.815719
		Average =	14.575219



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date: 22-Mar-2018 14:28:22 Instrument ID: CPESTGC11

Lims ID: 460-152136-E-2-D Lab Sample ID: 460-152136-2

Client ID: Ash Pit

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

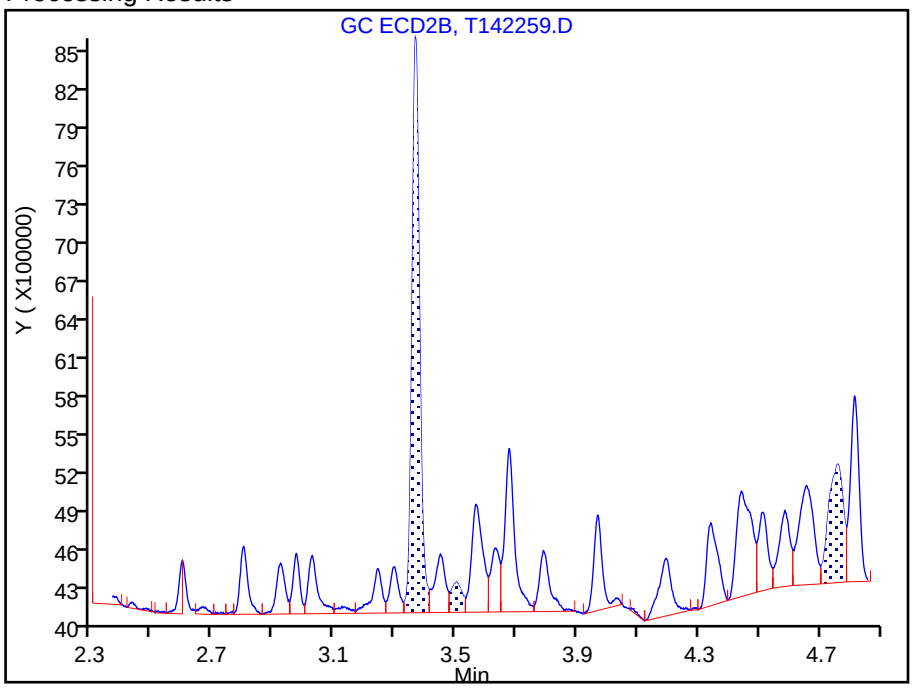
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

3 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.47			
2.85			
3.06			
3.37	3.37	7657545	20.317026
3.53	3.50	578293	3.857279
4.01			
4.48			
4.77	4.76	3031503	37.550007
		Average =	20.574771



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Mar-2018 15:07:53 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

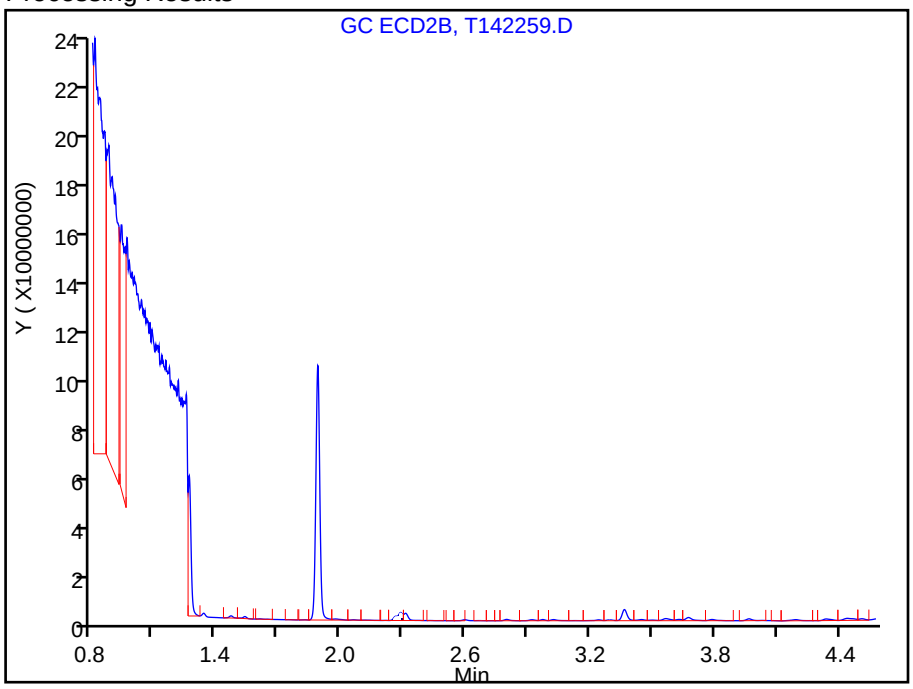
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

4 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.27	2.29	6538013	43.603762
2.63	2.66	121729	0.414988
2.85			
3.14	3.11	150330	0.234910
3.28	3.30	723184	2.797998
0.00			
4.25			
4.48			
	Average =		11.762914



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

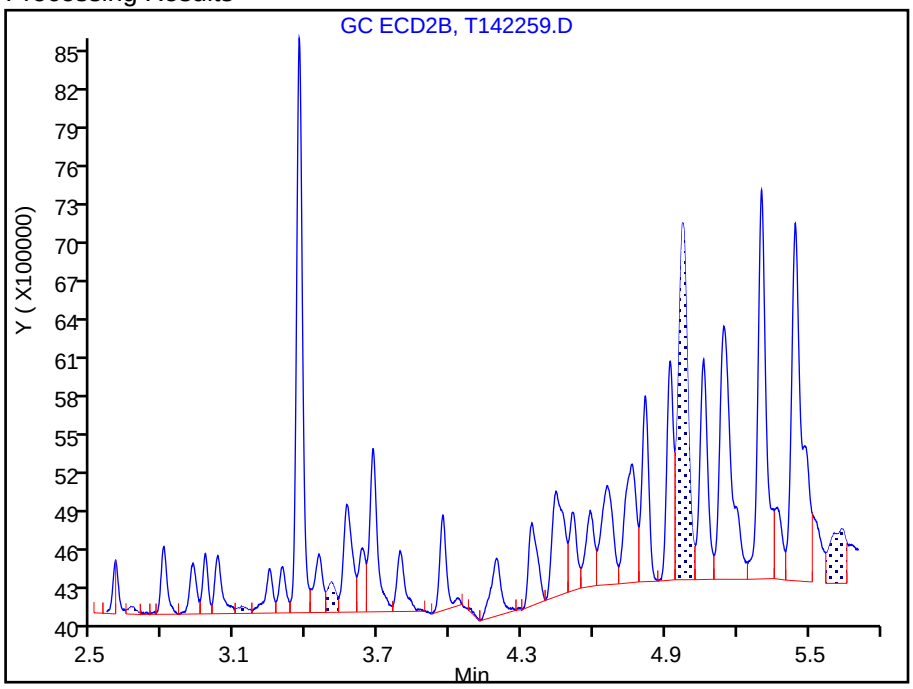
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

6 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.63	2.66	121729	0.672087
3.14	3.11	150330	0.304052
3.50	3.50	578293	1.184822
3.86			
4.25			
4.48			
4.97	4.97	7475885	33.688417
5.62	5.61	1839731	12.148321
		Average =	9.599540



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date: 22-Mar-2018 14:28:22 Instrument ID: CPESTGC11

Lims ID: 460-152136-E-2-D Lab Sample ID: 460-152136-2

Client ID: Ash Pit

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

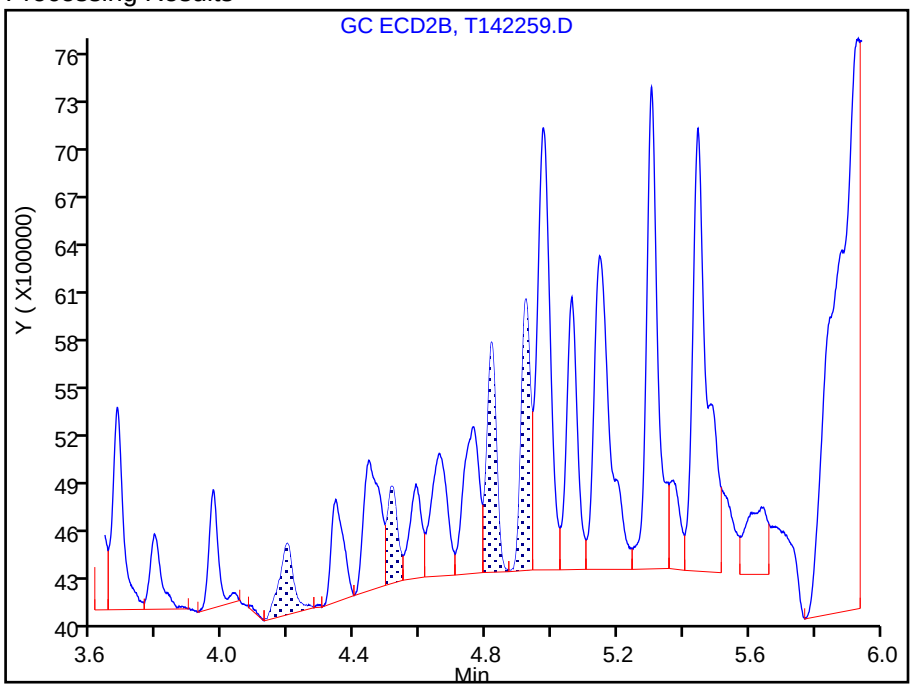
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.74			
4.18	4.19	1322900	3.860245
4.48	4.51	1295112	2.711183
4.80	4.82	2866558	7.659940
4.94	4.92	3251054	4.986633
5.27			
5.49			
5.84			
		Average =	4.804500



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

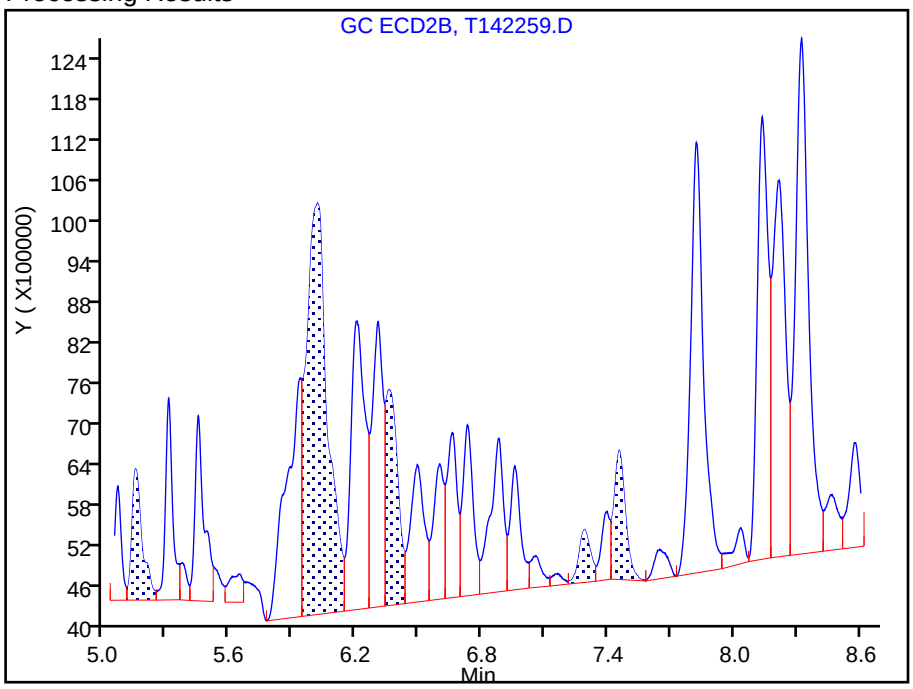
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D		
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2
Client ID:	Ash Pit		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD

8 PCB-1260, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.16	5.15	6661631	14.222009
5.84			
6.00	6.01	42532172	102.9218
6.34	6.36	12677645	28.016834
6.84			
7.30	7.29	2999909	5.511187
7.45	7.46	7192747	28.130284
8.51			
		Average =	35.760424



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D

Injection Date: 22-Mar-2018 14:28:22 Instrument ID: CPESTGC11

Lims ID: 460-152136-E-2-D Lab Sample ID: 460-152136-2

Client ID: Ash Pit

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

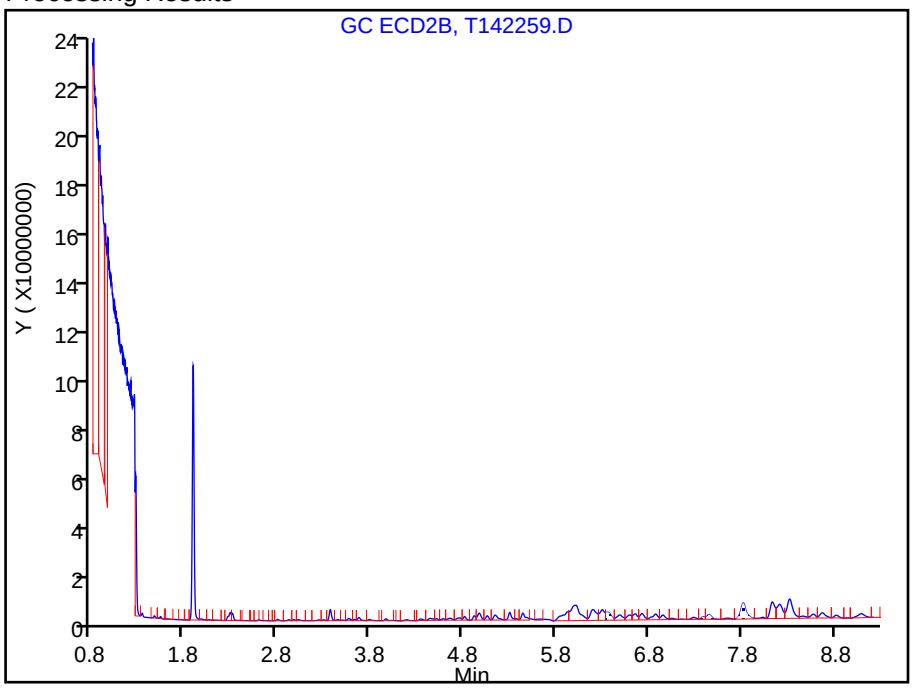
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

10 PCB-1268, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
0.00			
6.38	6.36	12677645	35.351137
7.39	7.40	2943531	1.894719
7.48	7.46	7192747	4.955910
7.81	7.82	27683884	21.942439
8.00			
8.53			
9.13			
		Average =	16.036051



Reviewer: patelji, 22-Mar-2018 15:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

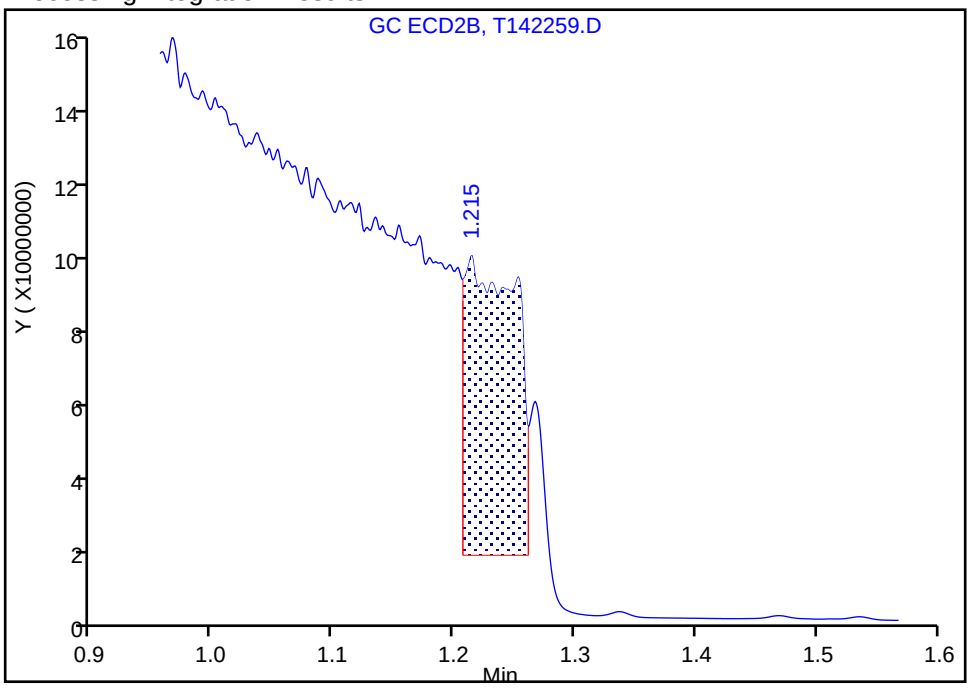
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142259.D				
Injection Date:	22-Mar-2018 14:28:22	Instrument ID:	CPESTGC11		
Lims ID:	460-152136-E-2-D	Lab Sample ID:	460-152136-2		
Client ID:	Ash Pit				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

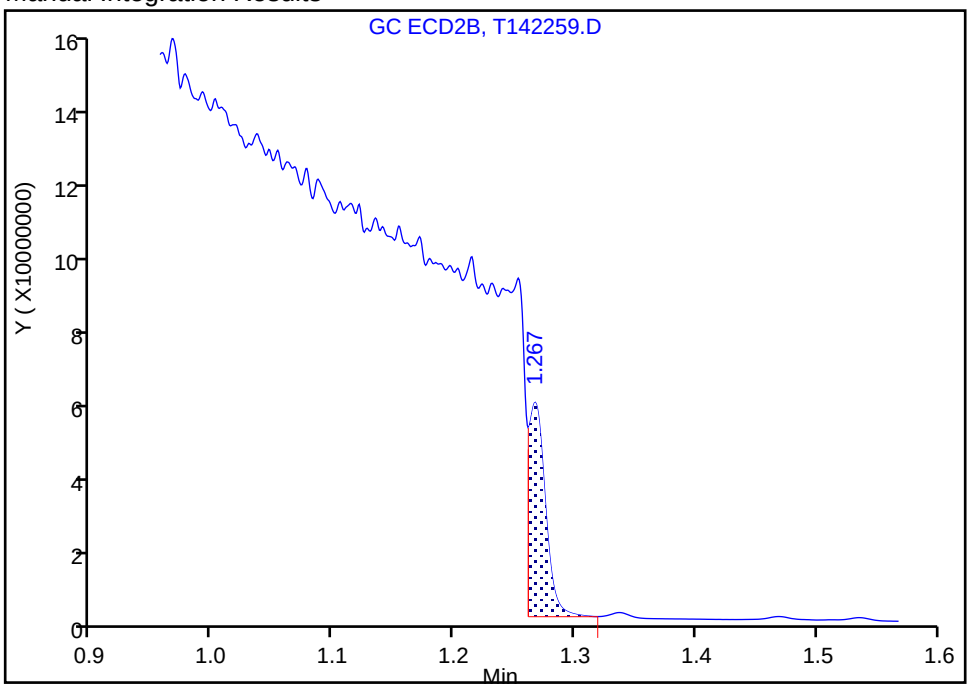
Processing Integration Results

RT: 1.21
Area: 219112514
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 50928121
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 22-Mar-2018 15:07:05

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 12:51 Calibration End Date: 01/18/2018 14:19 Calibration ID: 66135

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/2	T139537.D
Level 2	IC 460-491295/3	T139538.D
Level 3	IC 460-491295/4	T139539.D
Level 4	IC 460-491295/5	T139540.D
Level 5	IC 460-491295/21	T139543.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0151	0.0145	0.0152	0.0141	0.0152	Ave		0.0148				3.3		20.0			0.9900
PCB-1016 Peak 2	0.0271	0.0277	0.0290	0.0270	0.0293	Ave		0.0280				3.9		20.0			0.9900
PCB-1016 Peak 3	0.0728	0.0626	0.0645	0.0600	0.0659	Ave		0.0652				7.4		20.0			0.9900
PCB-1016 Peak 4	0.0252	0.0252	0.0261	0.0241	0.0266	Ave		0.0254				3.8		20.0			0.9900
PCB-1016 Peak 5	0.0156	0.0161	0.0169	0.0189	0.0175	Ave		0.0170				7.7		20.0			0.9900
PCB-1016 Peak 6	0.0230	0.0191	0.0196	0.0180	0.0198	Ave		0.0199				9.3		20.0			0.9900
PCB-1016 Peak 7	0.0250	0.0220	0.0227	0.0211	0.0233	Ave		0.0228				6.4		20.0			0.9900
PCB-1016 Peak 8	0.0172	0.0177	0.0177	0.0165	0.0182	Ave		0.0175				3.6		20.0			0.9900
PCB-1260 Peak 1	0.0170	0.0173	0.0178	0.0168	0.0184	Ave		0.0175				3.8		20.0			0.9900
PCB-1260 Peak 2	0.0393	0.0407	0.0417	0.0389	0.0430	Ave		0.0407				4.2		20.0			0.9900
PCB-1260 Peak 3	0.0498	0.0483	0.0490	0.0458	0.0507	Ave		0.0487				3.8		20.0			0.9900
PCB-1260 Peak 4	0.0330	0.0334	0.0338	0.0316	0.0347	Ave		0.0333				3.4		20.0			0.9900
PCB-1260 Peak 5	0.0354	0.0345	0.0354	0.0335	0.0369	Ave		0.0351				3.6		20.0			0.9900
PCB-1260 Peak 6	0.0837	0.0861	0.0893	0.0843	0.0939	Ave		0.0874				4.8		20.0			0.9900
PCB-1260 Peak 7	0.0581	0.0581	0.0593	0.0569	0.0632	Ave		0.0591				4.2		20.0			0.9900
PCB-1260 Peak 8	0.0226	0.0221	0.0229	0.0215	0.0238	Ave		0.0226				3.8		20.0			0.9900
Tetrachloro-m-xylene	0.7967	0.8332	0.9096	0.8937	0.9944	Ave		0.8855				8.6		20.0			0.9900
DCB Decachlorobiphenyl	0.7609	0.7621	0.8099	0.8131	0.9192	Ave		0.8130				7.9		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 12:51 Calibration End Date: 01/18/2018 14:19 Calibration ID: 66135

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/2	T139537.D
Level 2	IC 460-491295/3	T139538.D
Level 3	IC 460-491295/4	T139539.D
Level 4	IC 460-491295/5	T139540.D
Level 5	IC 460-491295/21	T139543.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	850763	7994729	17228188	24095036	40022112	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	1525040	15310358	32975897	46001985	77317231	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	4093991	34591037	73331690	102235070	173799663	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	1419306	13895018	29619100	41073474	70133464	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	875432	8875983	19223663	32223433	46211180	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	1291483	10546532	22307558	30669172	52179882	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	1405217	12141547	25838231	36050143	61465788	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	968927	9774483	20149232	28140525	47938461	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	953484	9569985	20266164	28619903	48560087	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	2212250	22458361	47357545	66271968	113519650	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	2799061	26667284	55679631	78111594	133743593	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	1853337	18453962	38388615	53845731	91434163	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	1989500	19078007	40282563	57055383	97365000	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	4707328	47563245	101428257	143635772	247705606	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	3267101	32099137	67439832	96921176	166783976	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	1270729	12194366	26069754	36606390	62675906	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	11200888	46030497	103371294	152370185	209803584	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	10697814	42101314	92036271	138615998	193938232	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Jan-2018 12:51:50 ALS Bottle#: 7 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:22 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:48:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.660	0.001	22495414	20.0	20.0	
2	1.393	1.393	0.000	36565598	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.646	2.648	-0.002	11200888	12.5	11.2	
2	2.068	2.069	-0.001	19622368	12.5	11.9	
						RPD = 5.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	850763	50.0	51.1	
1	3.790	3.792	-0.002	1525040	50.0	48.4	
1	4.370	4.369	0.001	4093991	50.0	55.9	M
1	4.540	4.541	-0.001	1419306	50.0	49.6	M
1	4.669	4.668	0.001	875432	50.0	45.8	M
1	5.138	5.138	0.000	1291483	50.0	57.7	M
1	5.291	5.291	0.000	1405217	50.0	54.7	M
1	5.684	5.683	0.001	968927	50.0	49.3	M
		Average of Peak Amounts =				51.6	
2	2.460	2.461	-0.001	1632023	50.0	53.3	
2	2.848	2.849	-0.001	3076531	50.0	51.4	
2	3.072	3.073	-0.001	1941803	50.0	49.2	
2	3.373	3.374	-0.001	6361852	50.0	49.1	M
2	3.526	3.527	-0.001	2512031	50.0	48.3	M
2	3.596	3.598	-0.002	1541409	50.0	48.9	M
2	4.007	4.007	0.000	2956915	50.0	54.7	M
2	4.456	4.458	-0.002	1346872	50.0	47.7	
		Average of Peak Amounts =				50.3	
						RPD = 2.41	
8 PCB-1260							M
1	6.712	6.711	0.001	953484	50.0	48.5	M
1	6.978	6.977	0.001	2212250	50.0	48.3	M
1	7.359	7.357	0.002	2799061	50.0	51.1	M
1	8.220	8.219	0.001	1853337	50.0	49.5	M
1	8.833	8.833	0.000	1989500	50.0	50.3	M
1	9.419	9.418	0.001	4707328	50.0	47.9	
1	9.987	9.983	0.004	3267101	50.0	49.1	M
1	10.638	10.628	0.010	1270729	50.0	50.1	
		Average of Peak Amounts =				49.4	
2	5.466	5.465	0.001	3984343	50.0	51.0	M
2	6.208	6.208	0.000	6791126	50.0	47.7	M
2	6.387	6.384	0.003	4123239	50.0	59.8	M
2	6.759	6.758	0.001	4113633	50.0	54.5	M
2	7.289	7.288	0.001	7888872	50.0	48.6	M
2	7.791	7.788	0.003	4388246	50.0	48.3	
2	7.954	7.953	0.001	2149519	50.0	50.4	
2	9.083	9.085	-0.002	2086441	50.0	48.8	M
		Average of Peak Amounts =				51.1	
						RPD = 3.53	
$ 11 DCB Decachlorobiphenyl							M
1	11.163	11.149	0.014	10697814	12.5	11.7	M
2	9.923	9.919	0.004	17100773	12.5	12.0	M
						RPD = 2.80	
S 12 Polychlorinated biphenyls, Total							
1						100.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

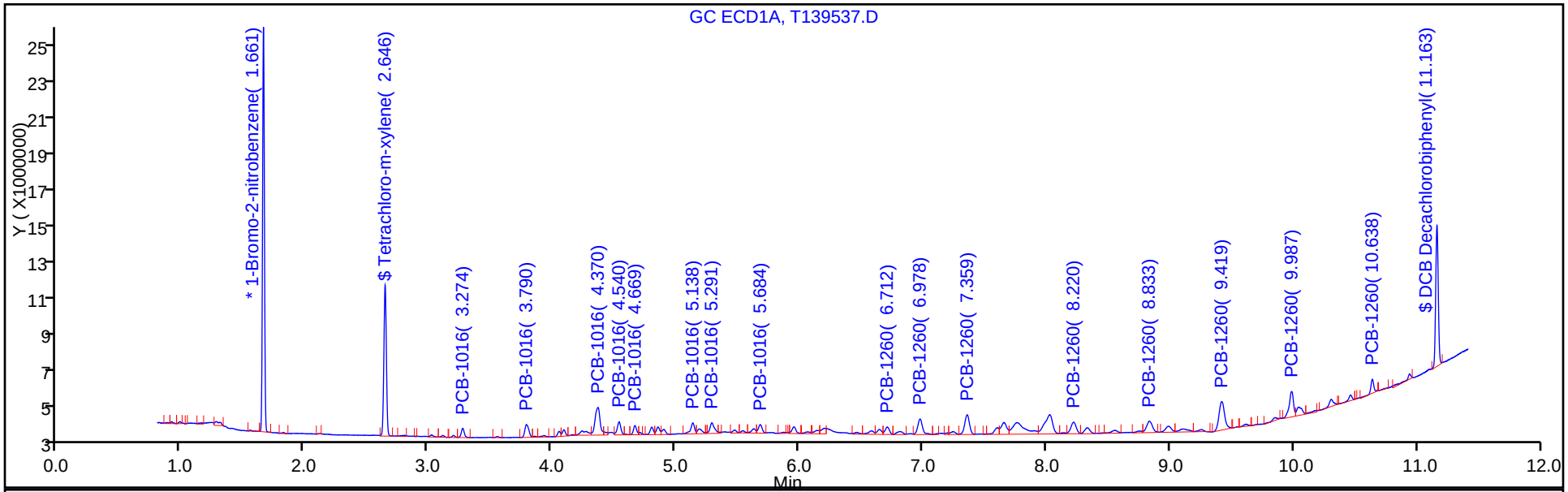
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

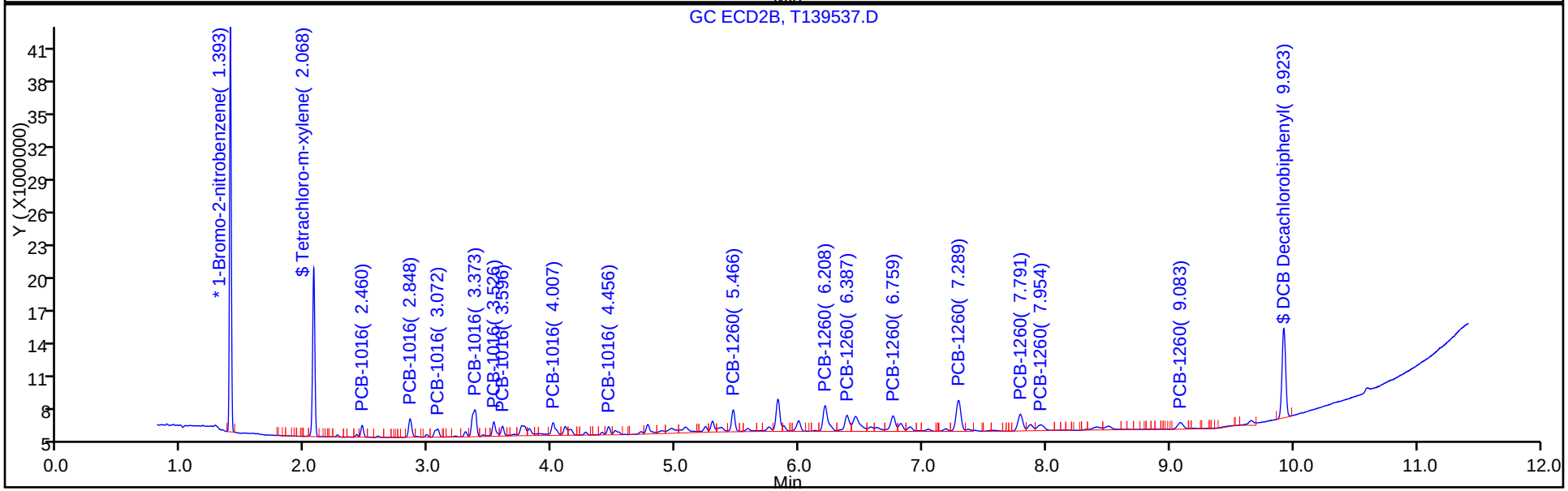
Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





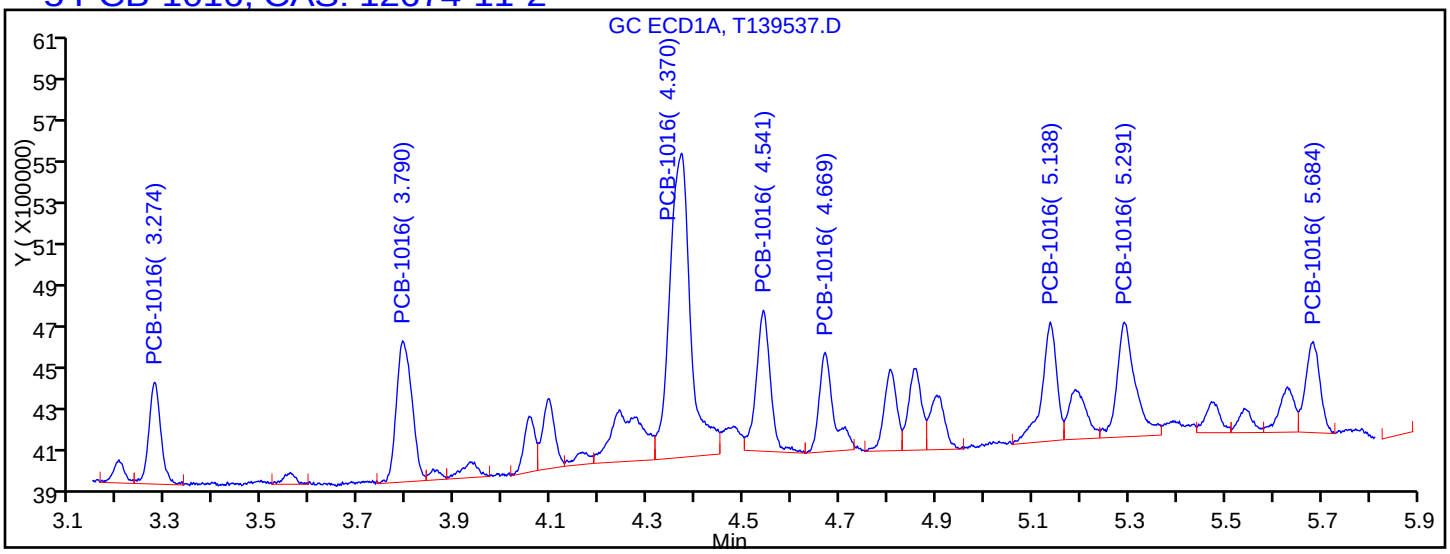
Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

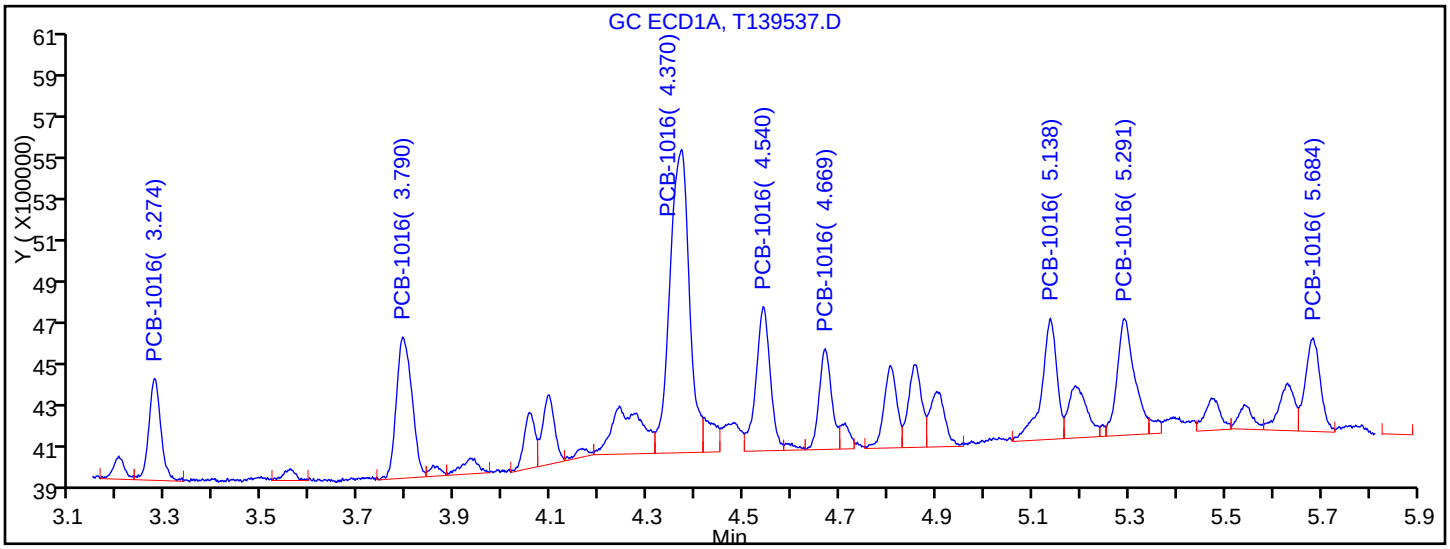
Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.274	Response = 850763
3.790	Response = 1525040
4.370	Response = 4403956
4.541	Response = 1379745
4.669	Response = 993316
5.138	Response = 1240134
5.291	Response = 1464329
5.684	Response = 913526



Manual Integration Results

3.274	Response = 850763	
3.790	Response = 1525040	
4.370	Response = 4093991	M
4.540	Response = 1419306	M
4.669	Response = 875432	M
5.138	Response = 1291483	M

Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

Injection Date: 18-Jan-2018 12:51:50 Instrument ID: CPESTGC11

Lims ID: IC PCB 1

Client ID:

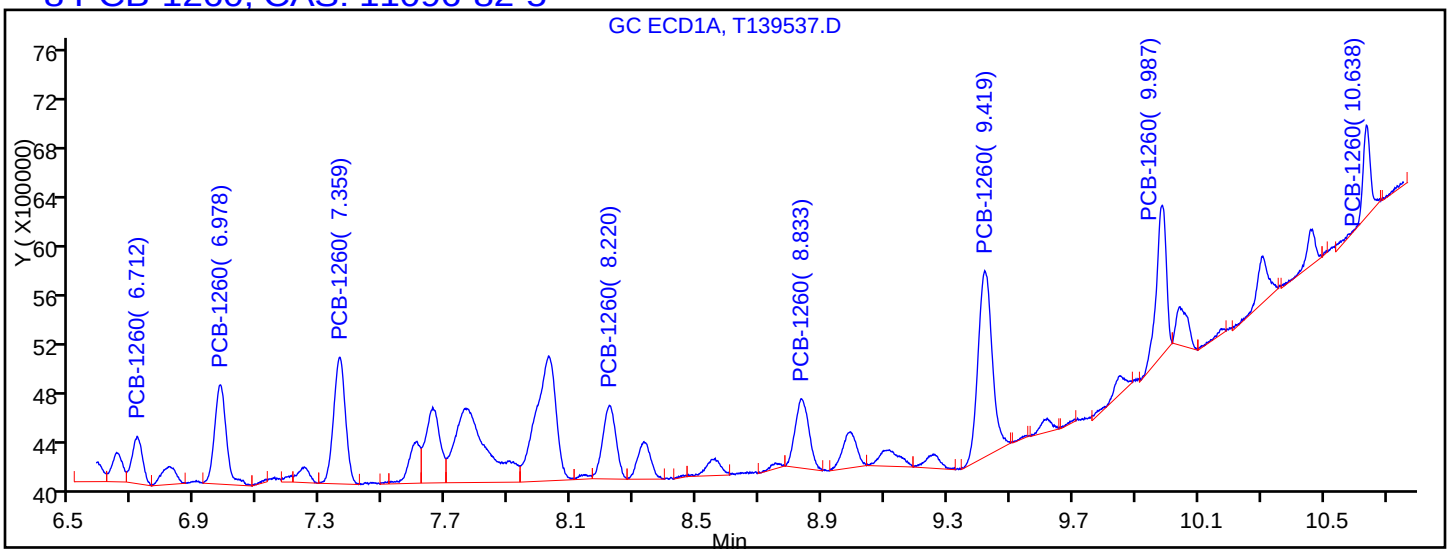
Operator ID: ALS Bottle#: 7 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

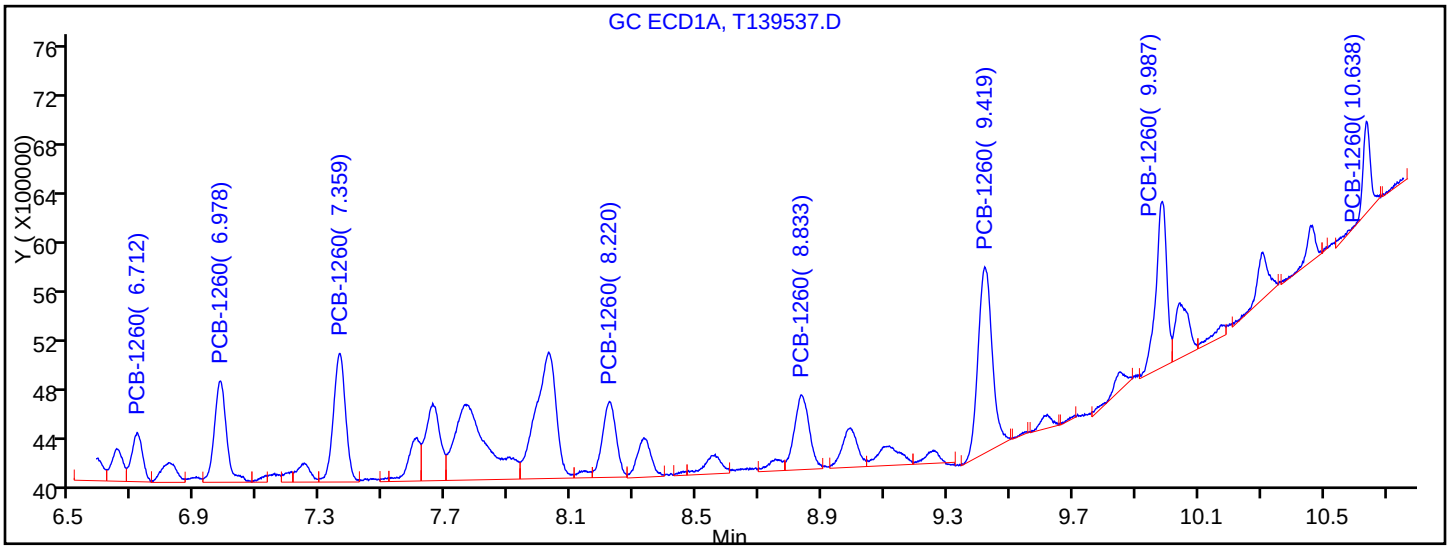
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.712	Response = 890301
6.978	Response = 2097400
7.359	Response = 2674807
8.220	Response = 1735898
8.833	Response = 1699997
9.419	Response = 4707328
9.987	Response = 2684083
10.638	Response = 1270729



Manual Integration Results

6.712	Response = 953484	M
6.978	Response = 2212250	M
7.359	Response = 2799061	M
8.220	Response = 1853337	M
8.833	Response = 1989500	M
9.419	Response = 4707328	

TestAmerica Edison

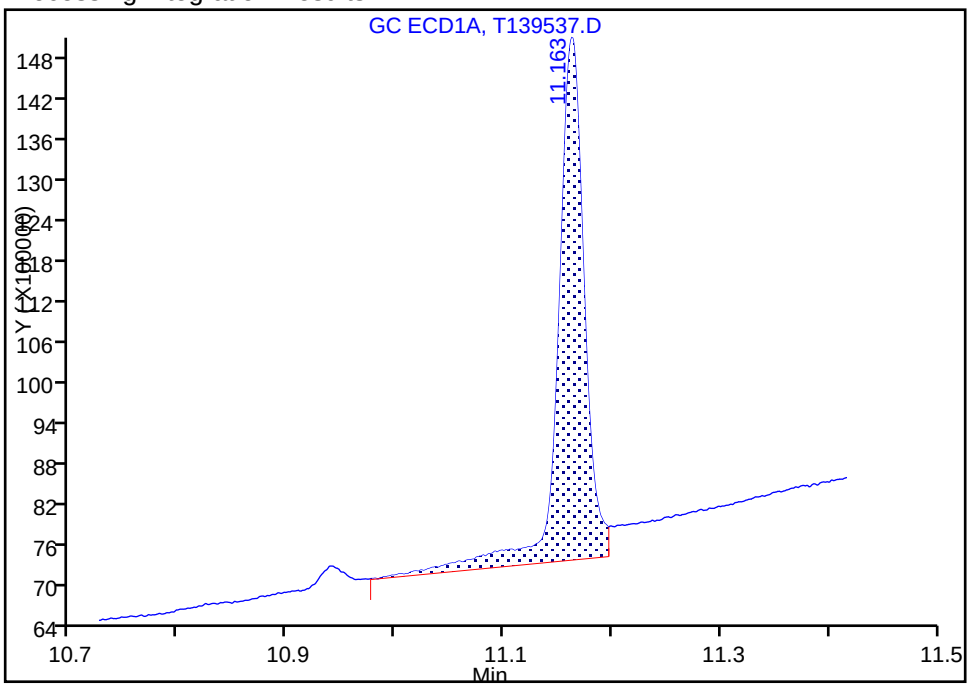
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D		
Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

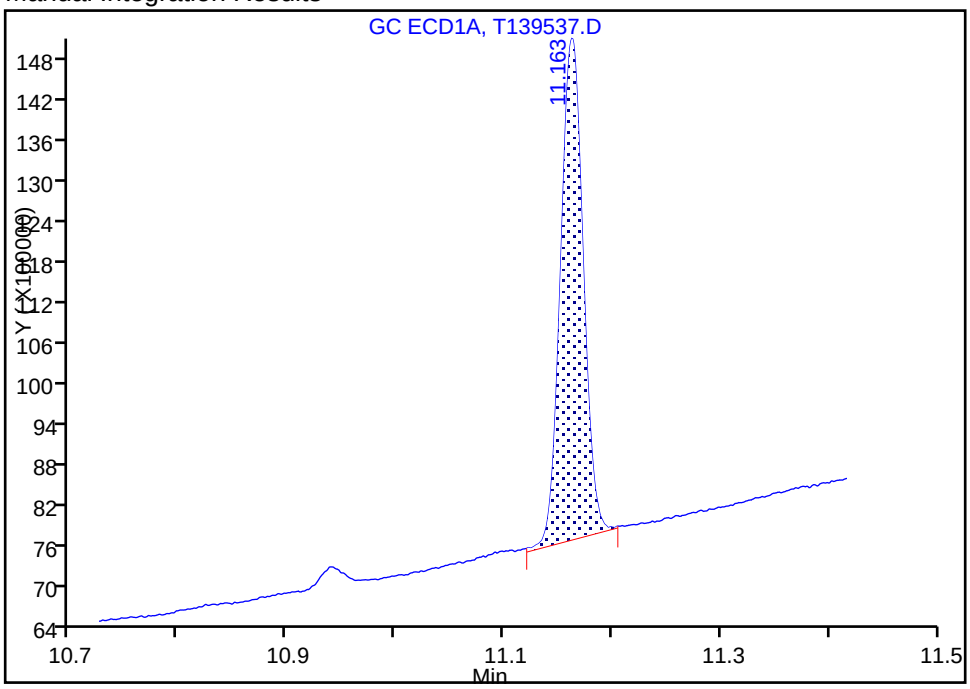
Processing Integration Results

RT: 11.16
Area: 13093790
Amount: 14.040958
Amount Units: ug/l



Manual Integration Results

RT: 11.16
Area: 10697814
Amount: 11.698306
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:05:32
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Jan-2018 13:06:25 ALS Bottle#: 8 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-003
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:48:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.660	0.001	22097063	20.0	20.0	
2	1.393	1.393	0.000	38891860	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.647	2.648	-0.001	46030497	50.0	47.0	
2	2.068	2.069	-0.001	79340456	50.0	45.3	
						RPD = 3.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	7994729	500.0	488.5	
1	3.790	3.792	-0.002	15310358	500.0	494.4	
1	4.369	4.369	0.000	34591037	500.0	480.5	
1	4.540	4.541	-0.001	13895018	500.0	494.6	
1	4.669	4.668	0.001	8875983	500.0	472.7	
1	5.137	5.138	-0.001	10546532	500.0	479.9	
1	5.291	5.291	0.000	12141547	500.0	481.3	
1	5.683	5.683	0.000	9774483	500.0	506.5	
		Average of Peak Amounts =				487.3	
2	2.460	2.461	-0.001	14931675	500.0	458.4	
2	2.849	2.849	0.000	29655119	500.0	465.9	M
2	3.072	3.073	-0.001	19611318	500.0	467.2	M
2	3.375	3.374	0.001	63537420	500.0	461.2	M
2	3.527	3.527	0.000	25330691	500.0	458.2	M
2	3.597	3.598	-0.001	15195475	500.0	453.1	M
2	4.007	4.007	0.000	25910040	500.0	451.0	M
2	4.457	4.458	-0.001	14093182	500.0	469.1	M
		Average of Peak Amounts =				460.5	
						RPD = 5.65	
8 PCB-1260							M
1	6.712	6.711	0.001	9569985	500.0	496.0	
1	6.977	6.977	0.000	22458361	500.0	499.2	
1	7.357	7.357	0.000	26667284	500.0	495.5	
1	8.219	8.219	0.000	18453962	500.0	501.9	
1	8.833	8.833	0.000	19078007	500.0	491.3	M
1	9.418	9.418	0.000	47563245	500.0	492.3	M
1	9.982	9.983	-0.001	32099137	500.0	491.4	M
1	10.628	10.628	0.000	12194366	500.0	489.0	
		Average of Peak Amounts =				494.6	
2	5.465	5.465	0.000	38934754	500.0	468.3	M
2	6.208	6.208	0.000	70258410	500.0	463.8	M
2	6.385	6.384	0.001	32653259	500.0	445.2	M
2	6.759	6.758	0.001	36144582	500.0	450.0	M
2	7.288	7.288	0.000	81080841	500.0	469.5	M
2	7.788	7.788	0.000	45026640	500.0	466.0	M
2	7.954	7.953	0.001	20668200	500.0	455.4	M
2	9.083	9.085	-0.002	21119846	500.0	464.5	M
		Average of Peak Amounts =				460.3	
						RPD = 7.17	
$ 11 DCB Decachlorobiphenyl							M
1	11.147	11.149	-0.002	42101314	50.0	46.9	M
2	9.920	9.919	0.001	67787002	50.0	44.8	
						RPD = 4.43	
S 12 Polychlorinated biphenyls, Total							
1						981.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

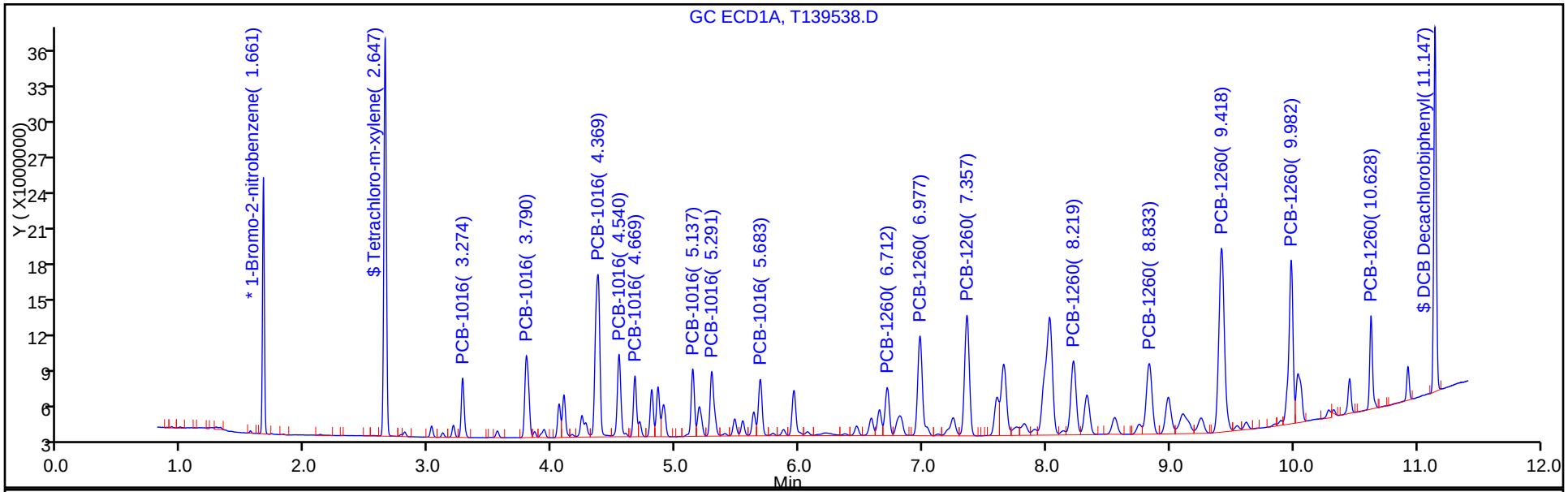
SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

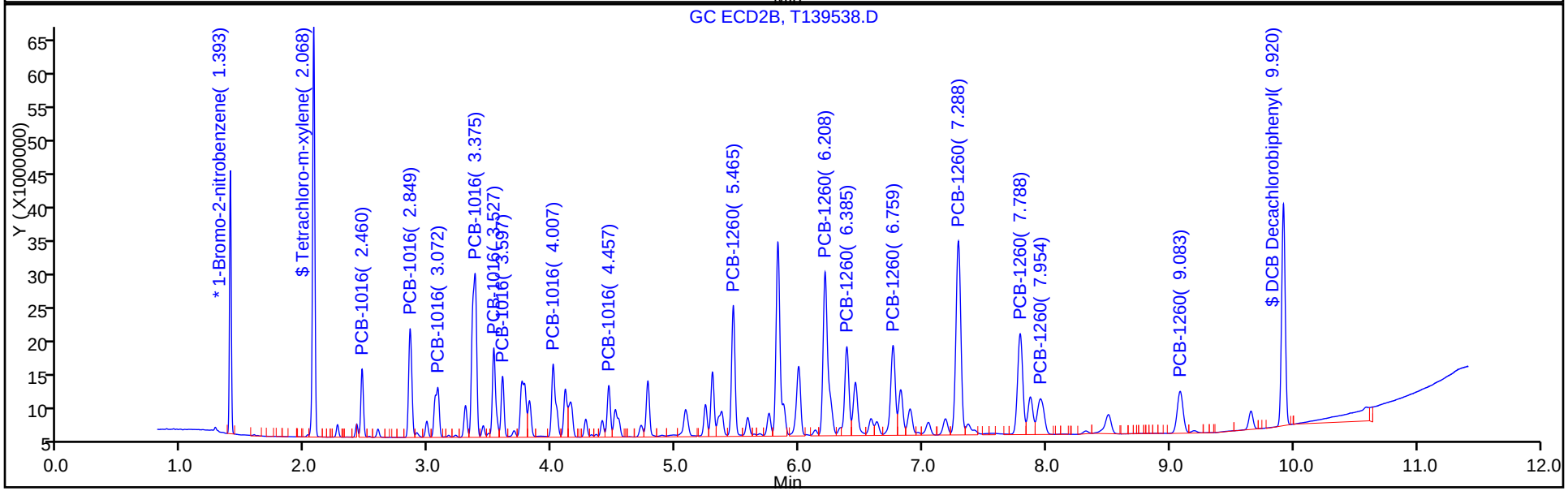
Report Date: 18-Jan-2018 15:58:29 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D

Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





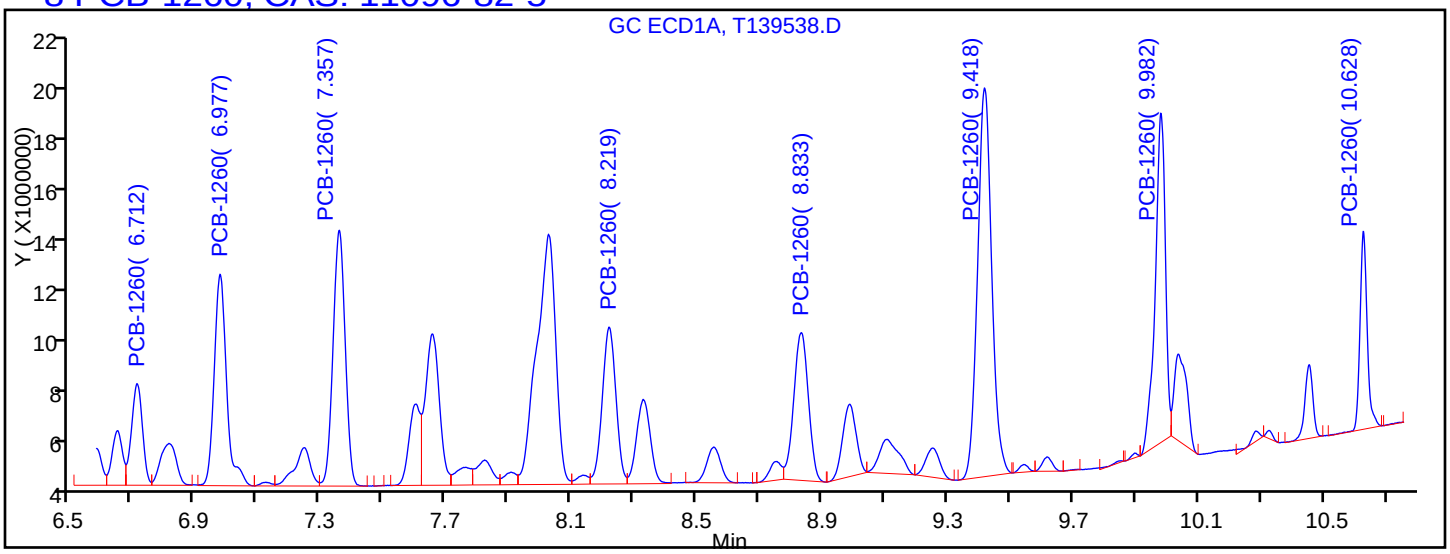
Report Date: 18-Jan-2018 15:58:29 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D

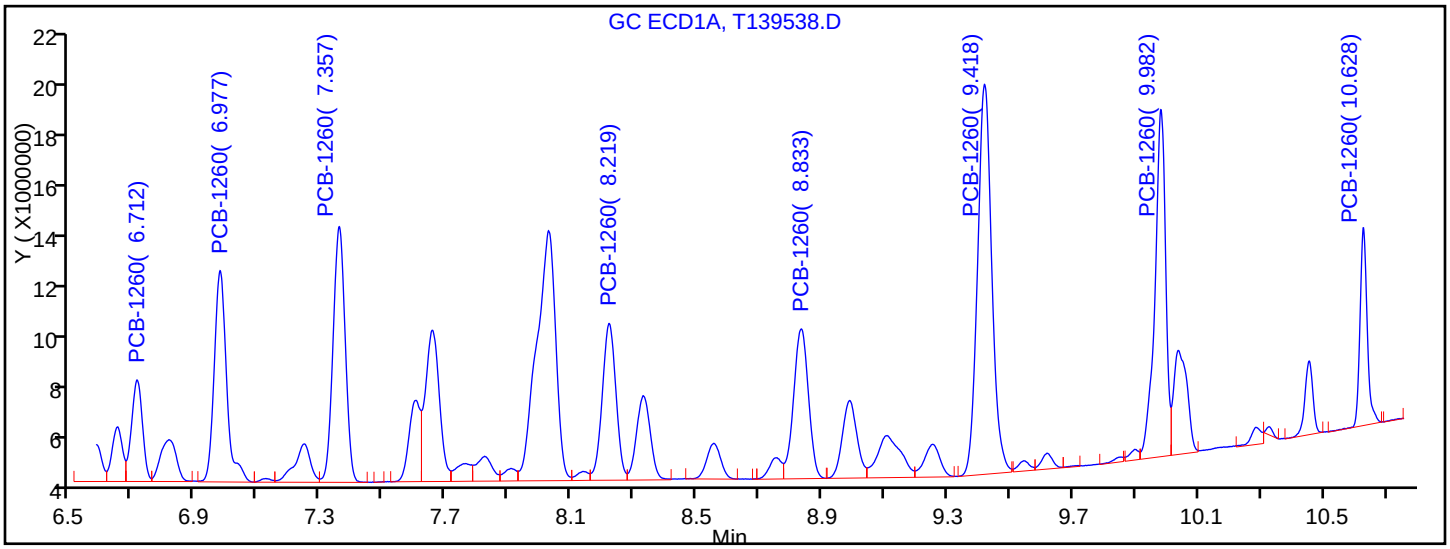
Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11
Lims ID:	IC PCB 2		
Client ID:			
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.712	Response = 9569985
6.977	Response = 22458361
7.357	Response = 26667284
8.219	Response = 18453962
8.833	Response = 18525881
9.418	Response = 46992820
9.982	Response = 28643819
10.628	Response = 12194366



Manual Integration Results

6.712	Response = 9569985	
6.977	Response = 22458361	
7.357	Response = 26667284	
8.219	Response = 18453962	
8.833	Response = 19078007	M
9.418	Response = 47563245	M

TestAmerica Edison

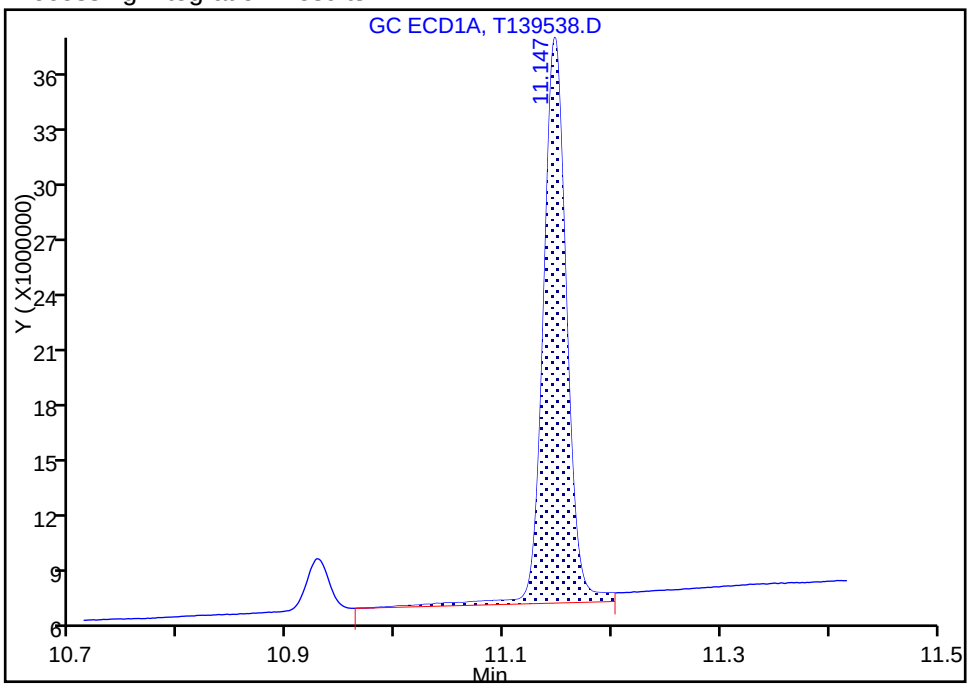
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D				
Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

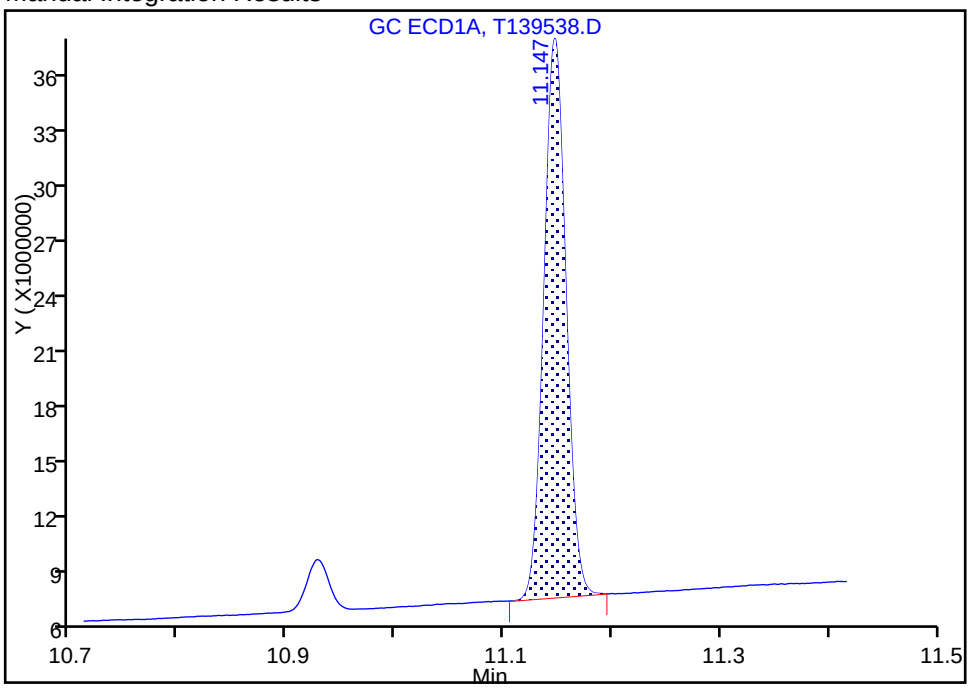
Processing Integration Results

RT: 11.15
Area: 45051146
Amount: 48.401597
Amount Units: ug/l



Manual Integration Results

RT: 11.15
Area: 42101314
Amount: 46.868714
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:04:49
Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 18-Jan-2018 13:21:03 ALS Bottle#: 9 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-004
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:31 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:46:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.663	1.663	0.000	22728043	20.0	20.0	
2	1.395	1.395	0.000	34898123	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.648	2.648	0.000	103371294	100.0	102.7	
2	2.069	2.069	0.000	165445960	100.0	105.2	
						RPD = 2.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.275	3.275	0.000	17228188	1000.0	1023.4	
1	3.792	3.792	0.000	32975897	1000.0	1035.2	
1	4.369	4.369	0.000	73331690	1000.0	990.3	
1	4.541	4.541	0.000	29619100	1000.0	1025.0	
1	4.668	4.668	0.000	19223663	1000.0	995.4	
1	5.138	5.138	0.000	22307558	1000.0	986.8	
1	5.291	5.291	0.000	25838231	1000.0	995.9	
1	5.683	5.683	0.000	20149232	1000.0	1015.1	
		Average of Peak Amounts =				1008.4	
2	2.461	2.461	0.000	30734381	1000.0	1051.5	
2	2.849	2.849	0.000	60931521	1000.0	1066.9	M
2	3.073	3.073	0.000	40138172	1000.0	1065.6	M
2	3.374	3.374	0.000	133555535	1000.0	1080.4	M
2	3.527	3.527	0.000	54142645	1000.0	1091.5	M
2	3.598	3.598	0.000	32693440	1000.0	1086.4	M
2	4.007	4.007	0.000	54425880	1000.0	1055.9	M
2	4.458	4.458	0.000	29811568	1000.0	1105.8	
		Average of Peak Amounts =				1075.5	
						RPD = 6.44	
8 PCB-1260							M
1	6.711	6.711	0.000	20266164	1000.0	1021.3	
1	6.977	6.977	0.000	47357545	1000.0	1023.5	
1	7.357	7.357	0.000	55679631	1000.0	1005.8	
1	8.219	8.219	0.000	38388615	1000.0	1015.1	
1	8.833	8.833	0.000	40282563	1000.0	1008.5	
1	9.418	9.418	0.000	101428257	1000.0	1020.7	
1	9.983	9.983	0.000	67439832	1000.0	1003.7	
1	10.628	10.628	0.000	26069754	1000.0	1016.4	
		Average of Peak Amounts =				1014.4	
2	5.465	5.465	0.000	82215420	1000.0	1102.0	M
2	6.208	6.208	0.000	153491168	1000.0	1129.2	M
2	6.384	6.384	0.000	69938436	1000.0	1062.6	M
2	6.758	6.758	0.000	78706468	1000.0	1092.1	M
2	7.288	7.288	0.000	173091719	1000.0	1117.0	M
2	7.788	7.788	0.000	96642838	1000.0	1114.7	
2	7.953	7.953	0.000	44713283	1000.0	1097.9	
2	9.085	9.085	0.000	44687883	1000.0	1095.2	M
		Average of Peak Amounts =				1101.4	
						RPD = 8.22	
$ 11 DCB Decachlorobiphenyl							M
1	11.149	11.149	0.000	92036271	100.0	99.6	M
2	9.919	9.919	0.000	143560517	100.0	105.8	
						RPD = 6.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

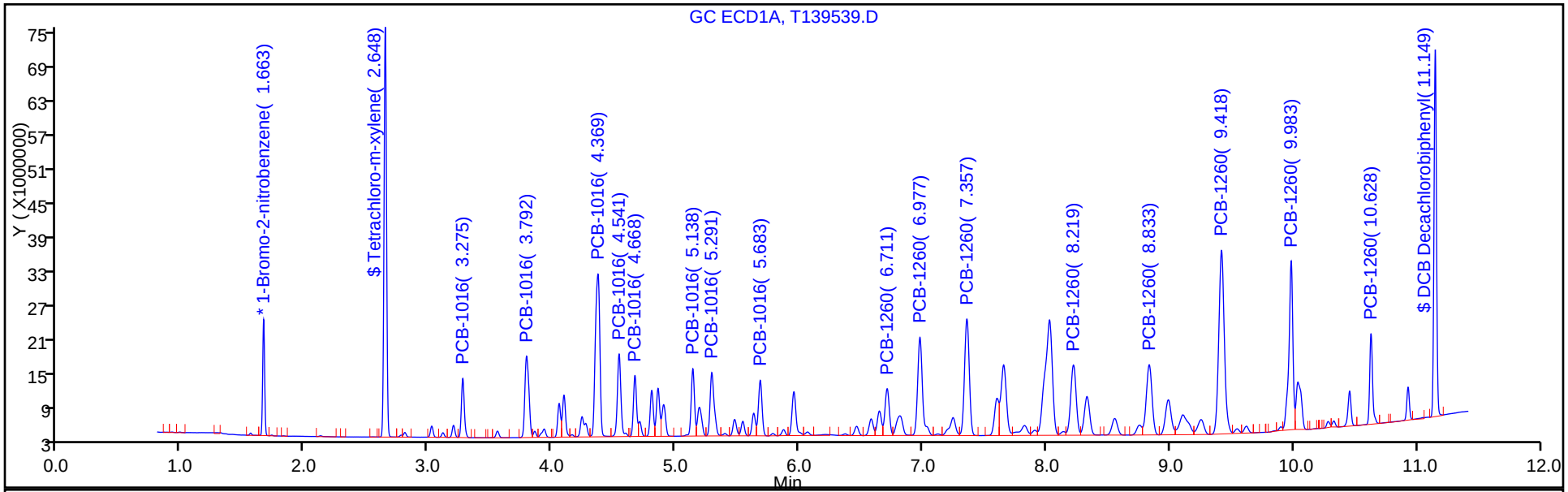
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

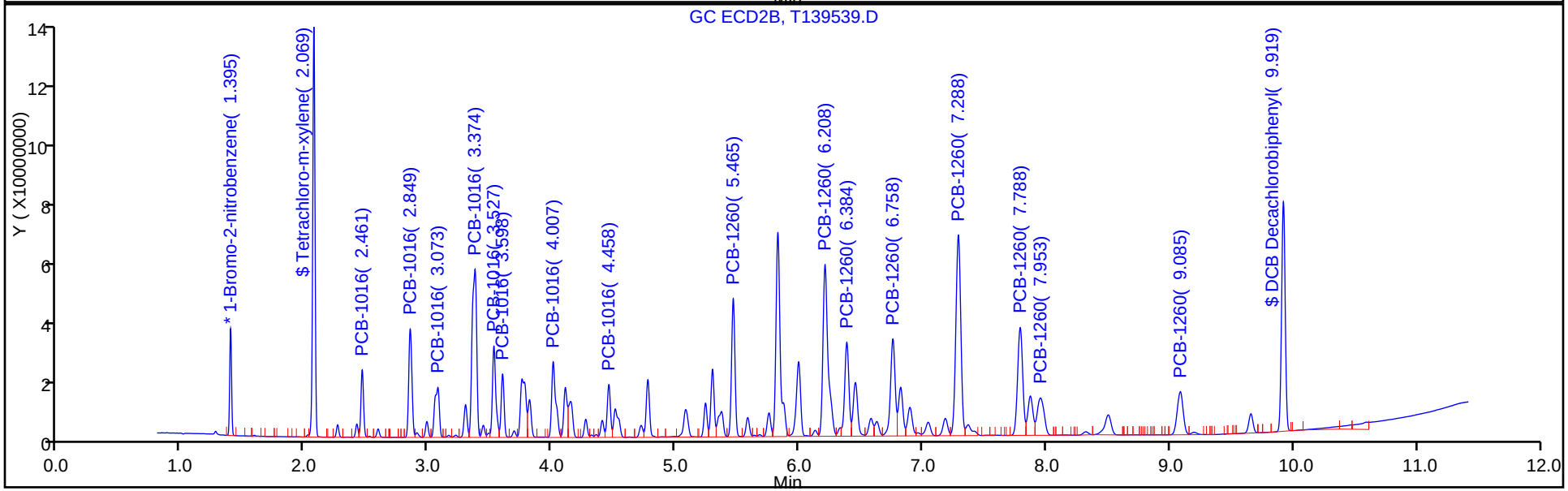
Report Date: 18-Jan-2018 15:58:33 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D

Injection Date:	18-Jan-2018 13:21:03	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

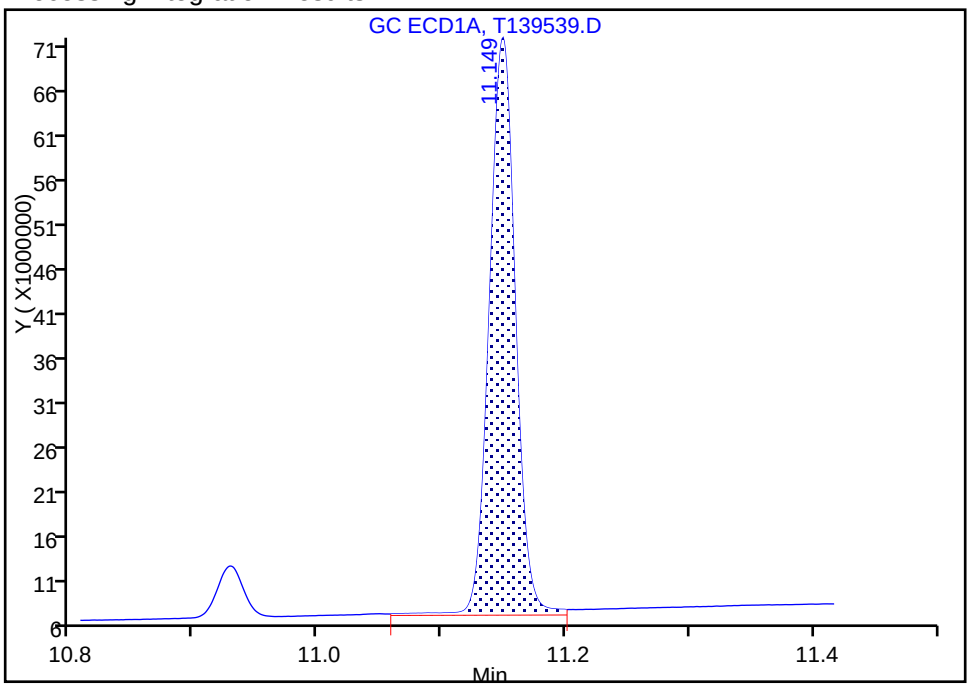
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D				
Injection Date:	18-Jan-2018 13:21:03	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 3				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

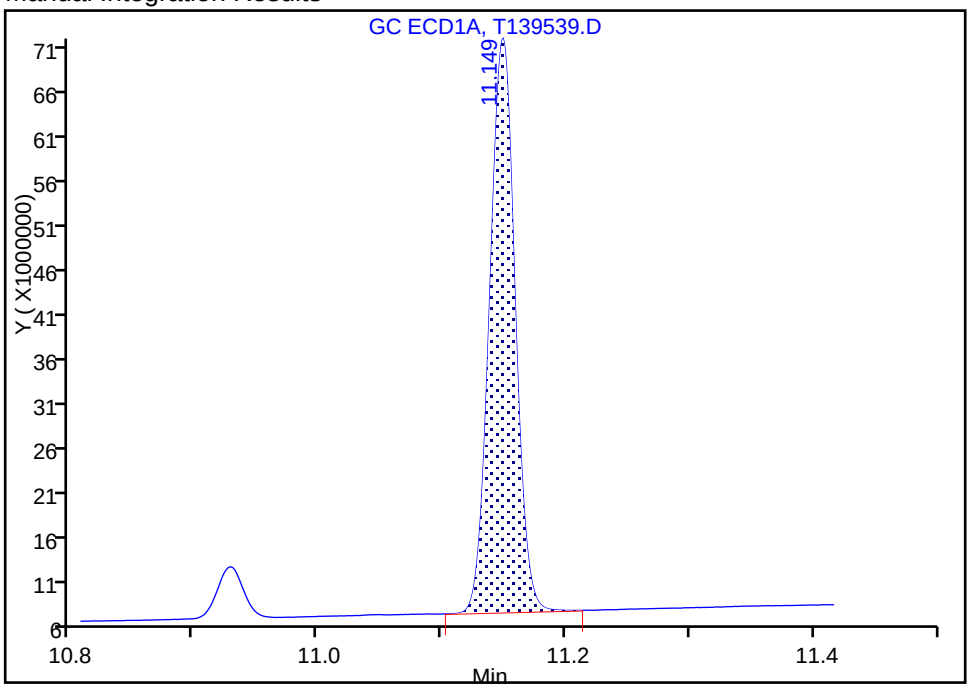
Processing Integration Results

RT: 11.15
Area: 94607033
Amount: 98.162143
Amount Units: ug/l



Manual Integration Results

RT: 11.15
Area: 92036271
Amount: 99.613663
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:03:42

Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Jan-2018 13:35:39 ALS Bottle#: 10 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-005
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:35 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 13:02:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.663	-0.001	22731265	20.0	20.0	
2	1.394	1.395	-0.001	34893059	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.647	2.648	-0.001	152370185	150.0	151.4	
2	2.069	2.069	0.000	251001580	150.0	159.7	
						RPD = 5.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	24095036	1500.0	1431.1	
1	3.791	3.792	-0.001	46001985	1500.0	1444.0	
1	4.370	4.369	0.001	102235070	1500.0	1380.4	
1	4.541	4.541	0.000	41073474	1500.0	1421.2	
1	4.669	4.668	0.001	32223433	1500.0	1668.3	
1	5.136	5.138	-0.002	30669172	1500.0	1356.5	
1	5.291	5.291	0.000	36050143	1500.0	1389.3	
1	5.683	5.683	0.000	28140525	1500.0	1417.5	
		Average of Peak Amounts =				1438.5	
2	2.460	2.461	-0.001	45110649	1500.0	1543.6	
2	2.850	2.849	0.001	88221211	1500.0	1545.0	M
2	3.074	3.073	0.001	58910019	1500.0	1564.1	M
2	3.375	3.374	0.001	193661696	1500.0	1566.8	M
2	3.527	3.527	0.000	78145013	1500.0	1575.6	M
2	3.598	3.598	0.000	47461148	1500.0	1577.4	M
2	4.007	4.007	0.000	77544661	1500.0	1504.6	M
2	4.458	4.458	0.000	41654389	1500.0	1545.4	M
		Average of Peak Amounts =				1552.8	
						RPD = 7.64	
8 PCB-1260							M
1	6.710	6.711	-0.001	28619903	1500.0	1442.0	
1	6.976	6.977	-0.001	66271968	1500.0	1432.1	
1	7.357	7.357	0.000	78111594	1500.0	1410.8	
1	8.219	8.219	0.000	53845731	1500.0	1423.6	
1	8.831	8.833	-0.002	57055383	1500.0	1428.2	
1	9.417	9.418	-0.001	143635772	1500.0	1445.2	
1	9.980	9.983	-0.003	96921176	1500.0	1442.2	M
1	10.624	10.628	-0.004	36606390	1500.0	1427.1	
		Average of Peak Amounts =				1431.4	
2	5.464	5.465	-0.001	112669732	1500.0	1510.5	M
2	6.209	6.208	0.001	208513259	1500.0	1534.2	M
2	6.384	6.384	0.000	93758515	1500.0	1424.7	M
2	6.758	6.758	0.000	105142657	1500.0	1459.1	M
2	7.289	7.288	0.001	231651540	1500.0	1495.1	M
2	7.788	7.788	0.000	131101968	1500.0	1512.4	
2	7.951	7.953	-0.002	61560319	1500.0	1511.8	
2	9.084	9.085	-0.001	62145335	1500.0	1523.3	M
		Average of Peak Amounts =				1496.4	
						RPD = 4.44	
$ 11 DCB Decachlorobiphenyl							M
1	11.139	11.149	-0.010	138615998	150.0	150.0	
2	9.919	9.919	0.000	212601392	150.0	156.7	M
						RPD = 4.39	
S 12 Polychlorinated biphenyls, Total							
1						2869.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

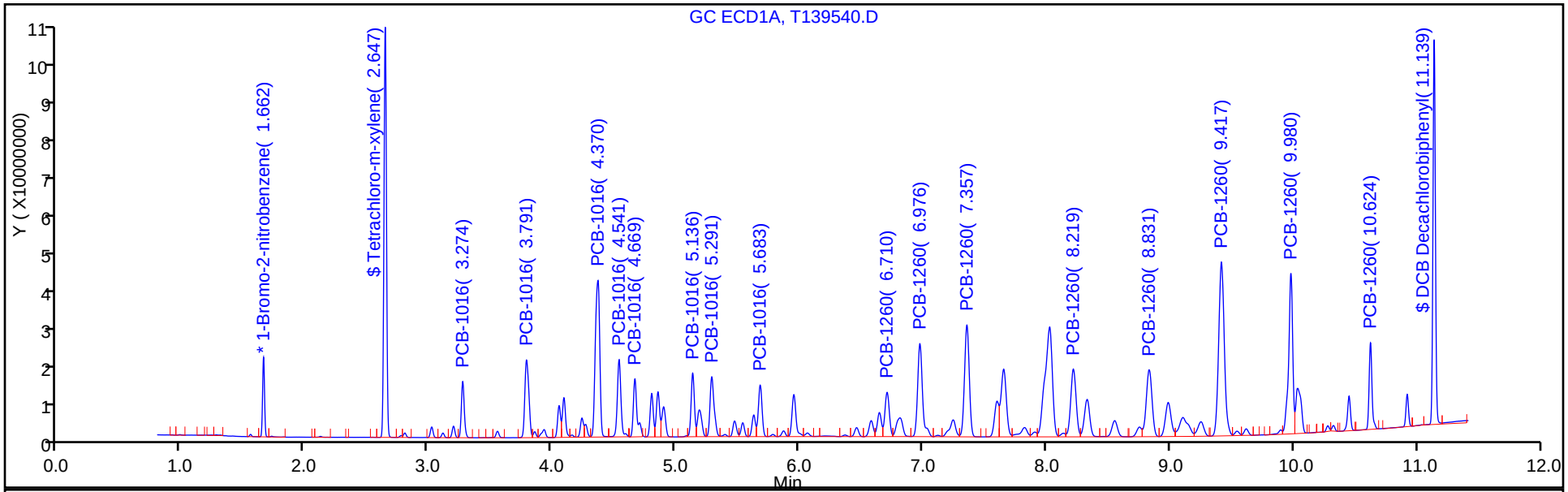
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

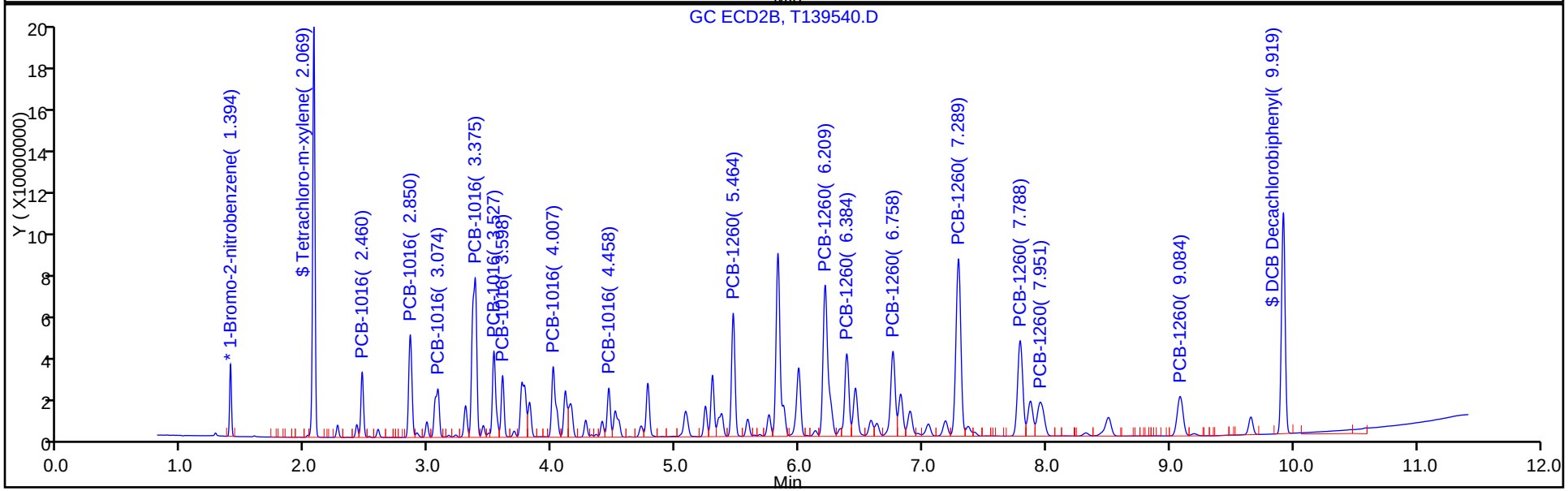
Report Date: 18-Jan-2018 15:58:37 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D

Injection Date:	18-Jan-2018 13:35:39	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 18-Jan-2018 15:58:37 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D

Injection Date: 18-Jan-2018 13:35:39 Instrument ID: CPESTGC11

Lims ID: IC PCB 4

Client ID:

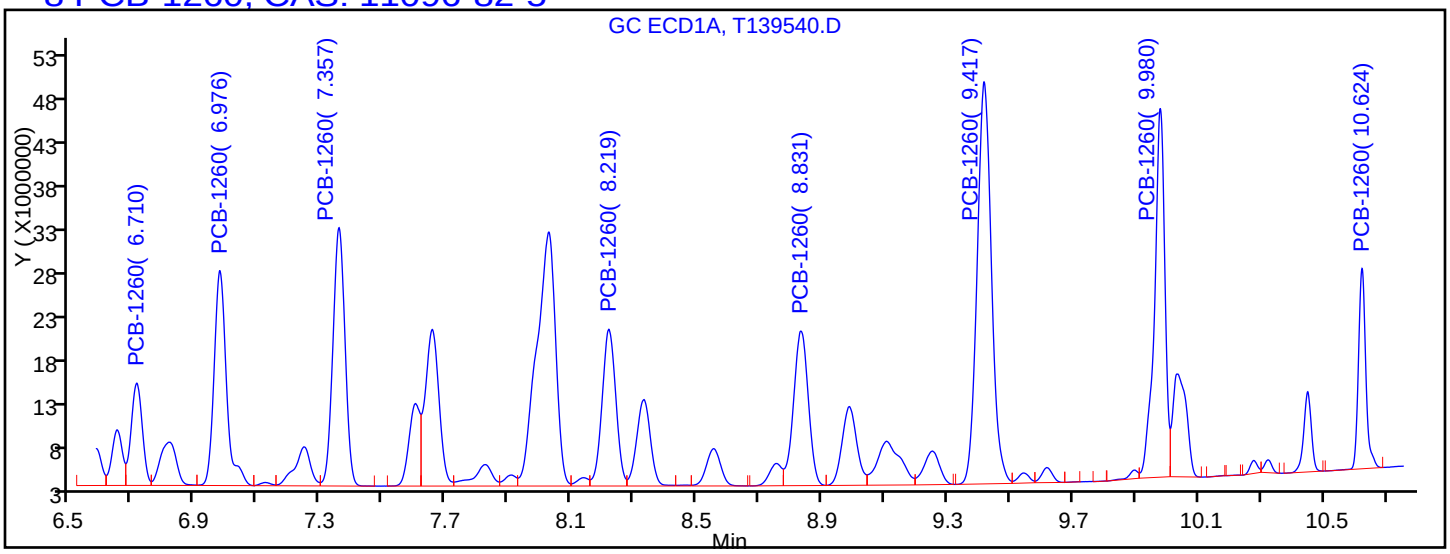
Operator ID: ALS Bottle#: 10 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

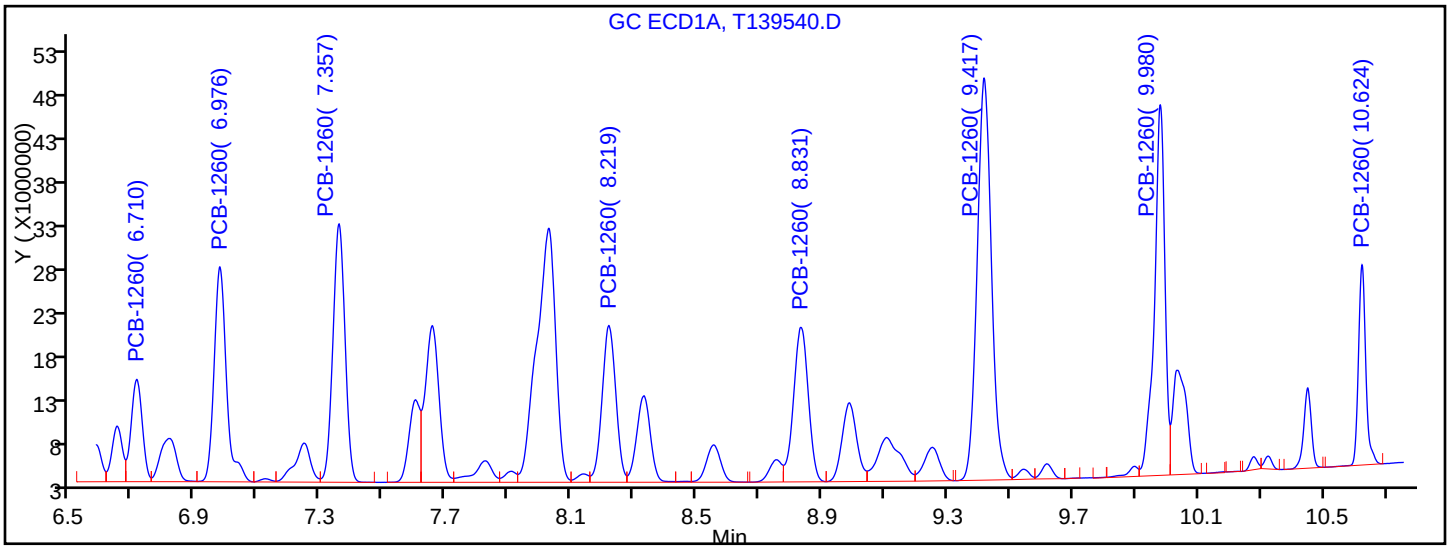
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.710	Response = 28619903
6.976	Response = 66271968
7.357	Response = 78111594
8.219	Response = 53845731
8.831	Response = 57055383
9.417	Response = 143635772
9.980	Response = 95655459
10.624	Response = 36606390



Manual Integration Results

6.710	Response = 28619903
6.976	Response = 66271968
7.357	Response = 78111594
8.219	Response = 53845731
8.831	Response = 57055383
9.417	Response = 143635772

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Jan-2018 14:19:31 ALS Bottle#: 13 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:50 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 14:03:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.663	-0.003	21098667	20.0	20.0	
2	1.393	1.395	-0.002	36970944	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.646	2.648	-0.002	209803584	200.0	224.6	
2	2.068	2.069	-0.001	341074466	200.0	204.8	
						RPD = 9.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.273	3.275	-0.002	40022112	2500.0	2561.0	
1	3.791	3.792	-0.001	77317231	2500.0	2614.7	
1	4.368	4.369	-0.001	173799663	2500.0	2528.3	
1	4.538	4.541	-0.003	70133464	2500.0	2614.5	
1	4.668	4.668	0.000	46211180	2500.0	2577.6	
1	5.135	5.138	-0.003	52179882	2500.0	2486.6	
1	5.288	5.291	-0.003	61465788	2500.0	2552.0	
1	5.681	5.683	-0.002	47938461	2500.0	2601.6	
		Average of Peak Amounts =				2567.0	
2	2.459	2.461	-0.002	72527994	2500.0	2342.2	
2	2.848	2.849	-0.001	142611525	2500.0	2357.2	M
2	3.072	3.073	-0.001	97109585	2500.0	2433.5	M
2	3.373	3.374	-0.001	317683070	2500.0	2425.8	M
2	3.527	3.527	0.000	128090103	2500.0	2437.5	M
2	3.597	3.598	-0.001	77955875	2500.0	2445.3	M
2	4.006	4.007	-0.001	128870953	2500.0	2360.0	M
2	4.455	4.458	-0.003	69404936	2500.0	2430.2	M
		Average of Peak Amounts =				2403.9	
						RPD = 6.56	
8 PCB-1260							M
1	6.709	6.711	-0.002	48560087	2500.0	2636.0	
1	6.974	6.977	-0.003	113519650	2500.0	2642.9	
1	7.355	7.357	-0.002	133743593	2500.0	2602.5	
1	8.218	8.219	-0.001	91434163	2500.0	2604.4	
1	8.831	8.833	-0.002	97365000	2500.0	2625.8	
1	9.418	9.418	0.000	247705606	2500.0	2685.2	M
1	9.978	9.983	-0.005	166783976	2500.0	2673.9	M
1	10.621	10.628	-0.007	62675906	2500.0	2632.4	
		Average of Peak Amounts =				2637.9	
2	5.463	5.465	-0.002	184726455	2500.0	2337.3	M
2	6.206	6.208	-0.002	348003742	2500.0	2416.7	M
2	6.383	6.384	-0.001	157141817	2500.0	2253.7	M
2	6.757	6.758	-0.001	180498408	2500.0	2364.1	M
2	7.285	7.288	-0.003	400398390	2500.0	2438.9	M
2	7.787	7.788	-0.001	224733474	2500.0	2446.9	
2	7.952	7.953	-0.001	105254710	2500.0	2439.6	
2	9.082	9.085	-0.003	106352125	2500.0	2460.4	M
		Average of Peak Amounts =				2394.7	
						RPD = 9.67	
$ 11 DCB Decachlorobiphenyl							M
1	11.134	11.149	-0.015	193938232	200.0	226.1	
2	9.917	9.919	-0.002	298244638	200.0	207.5	M
						RPD = 8.58	
S 12 Polychlorinated biphenyls, Total							
1						5204.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

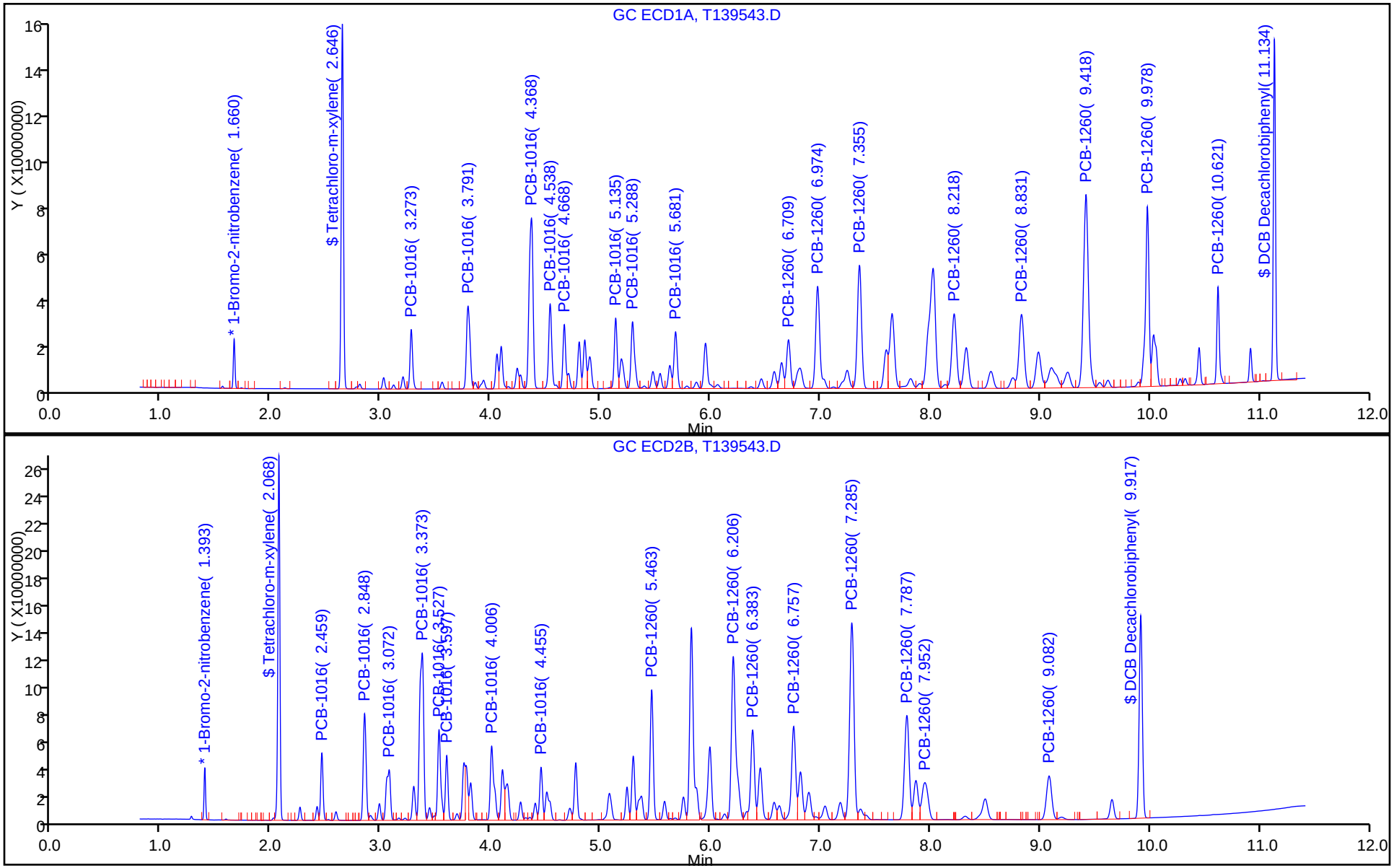
SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 18-Jan-2018 15:58:52 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D

Injection Date:	18-Jan-2018 14:19:31	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 5			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 18-Jan-2018 15:58:52 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D

Injection Date: 18-Jan-2018 14:19:31 Instrument ID: CPESTGC11

Lims ID: IC PCB 5

Client ID:

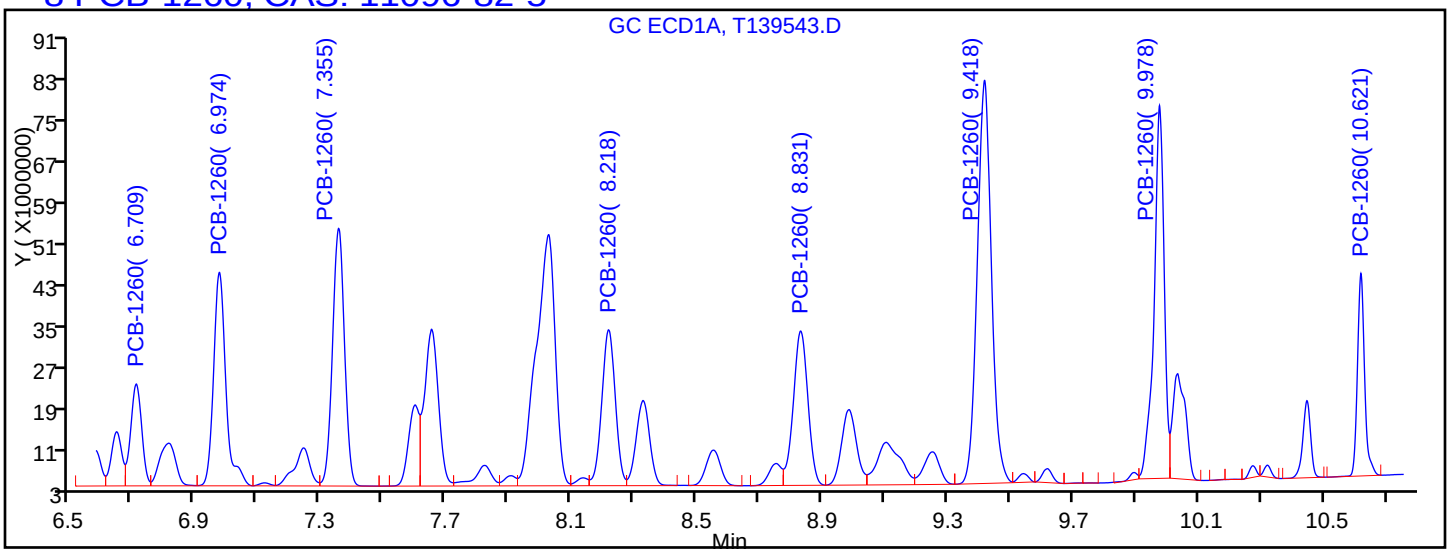
Operator ID: ALS Bottle#: 13 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

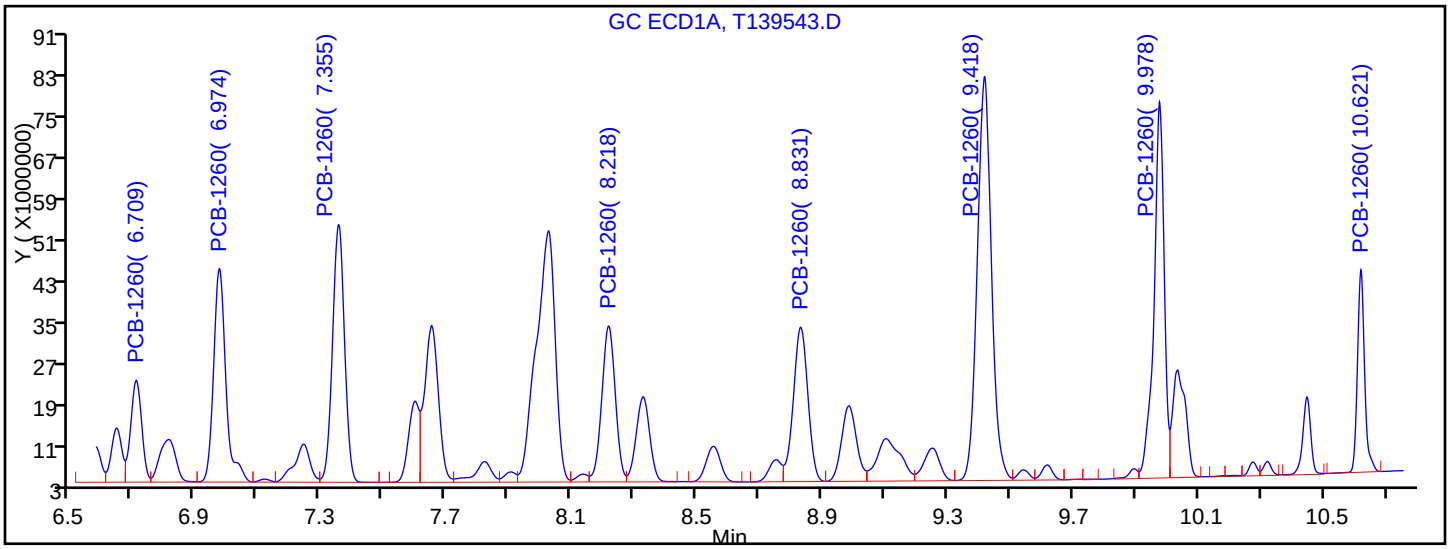
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.709	Response = 48560087
6.974	Response = 113519650
7.355	Response = 133743593
8.218	Response = 91434163
8.831	Response = 97365000
9.418	Response = 246126842
9.978	Response = 162874538
10.621	Response = 62675906



Manual Integration Results

6.709	Response = 48560087
6.974	Response = 113519650
7.355	Response = 133743593
8.218	Response = 91434163
8.831	Response = 97365000
9.418	Response = 247705606

M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 12:51 Calibration End Date: 01/18/2018 14:19 Calibration ID: 66136

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/2	T139537.D
Level 2	IC 460-491295/3	T139538.D
Level 3	IC 460-491295/4	T139539.D
Level 4	IC 460-491295/5	T139540.D
Level 5	IC 460-491295/21	T139543.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0179	0.0154	0.0176	0.0172	0.0157	Ave		0.0168				6.8		20.0			0.9900
PCB-1016 Peak 2	0.0337	0.0305	0.0349	0.0337	0.0309	Ave		0.0327				5.9		20.0			0.9900
PCB-1016 Peak 3	0.0212	0.0202	0.0230	0.0225	0.0210	Ave		0.0216				5.3		20.0			0.9900
PCB-1016 Peak 4	0.0696	0.0653	0.0765	0.0740	0.0687	Ave		0.0708				6.3		20.0			0.9900
PCB-1016 Peak 5	0.0275	0.0261	0.0310	0.0299	0.0277	Ave		0.0284				7.0		20.0			0.9900
PCB-1016 Peak 6	0.0169	0.0156	0.0187	0.0181	0.0169	Ave		0.0172				7.1		20.0			0.9900
PCB-1016 Peak 7	0.0323	0.0266	0.0312	0.0296	0.0279	Ave		0.0295				7.9		20.0			0.9900
PCB-1016 Peak 8	0.0147	0.0145	0.0171	0.0159	0.0150	Ave		0.0154				6.9		20.0			0.9900
PCB-1260 Peak 1	0.0436	0.0400	0.0471	0.0431	0.0400	Ave		0.0428				6.9		20.0			0.9900
PCB-1260 Peak 2	0.0743	0.0723	0.0880	0.0797	0.0753	Ave		0.0779				8.0		20.0			0.9900
PCB-1260 Peak 3	0.0451	0.0336	0.0401	0.0358	0.0340	Ave		0.0377				12.9		20.0			0.9900
PCB-1260 Peak 4	0.0450	0.0372	0.0451	0.0402	0.0391	Ave		0.0413				8.7		20.0			0.9900
PCB-1260 Peak 5	0.0863	0.0834	0.0992	0.0885	0.0866	Ave		0.0888				6.9		20.0			0.9900
PCB-1260 Peak 6	0.0480	0.0463	0.0554	0.0501	0.0486	Ave		0.0497				7.0		20.0			0.9900
PCB-1260 Peak 7	0.0235	0.0213	0.0256	0.0235	0.0228	Ave		0.0233				6.8		20.0			0.9900
PCB-1260 Peak 8	0.0228	0.0217	0.0256	0.0237	0.0230	Ave		0.0234				6.2		20.0			0.9900
Tetrachloro-m-xylene	0.8586	0.8160	0.9482	0.9591	0.9225	Ave		0.9009				6.8		20.0			0.9900
DCB Decachlorobiphenyl	0.7483	0.6972	0.8227	0.8124	0.8067	Ave		0.7775				6.9		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 12:51 Calibration End Date: 01/18/2018 14:19 Calibration ID: 66136

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/2	T139537.D
Level 2	IC 460-491295/3	T139538.D
Level 3	IC 460-491295/4	T139539.D
Level 4	IC 460-491295/5	T139540.D
Level 5	IC 460-491295/21	T139543.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1632023	14931675	30734381	45110649	72527994	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	3076531	29655119	60931521	88221211	142611525	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	1941803	19611318	40138172	58910019	97109585	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	6361852	63537420	133555535	193661696	317683070	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	2512031	25330691	54142645	78145013	128090103	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	1541409	15195475	32693440	47461148	77955875	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	2956915	25910040	54425880	77544661	128870953	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	1346872	14093182	29811568	41654389	69404936	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	3984343	38934754	82215420	112669732	184726455	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	6791126	70258410	153491168	208513259	348003742	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	4123239	32653259	69938436	93758515	157141817	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	4113633	36144582	78706468	105142657	180498408	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	7888872	81080841	173091719	231651540	400398390	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	4388246	45026640	96642838	131101968	224733474	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	2149519	20668200	44713283	61560319	105254710	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	2086441	21119846	44687883	62145335	106352125	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	19622368	79340456	165445960	251001580	341074466	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	17100773	67787002	143560517	212601392	298244638	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Jan-2018 12:51:50 ALS Bottle#: 7 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:22 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:48:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.660	0.001	22495414	20.0	20.0	
2	1.393	1.393	0.000	36565598	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.646	2.648	-0.002	11200888	12.5	11.2	
2	2.068	2.069	-0.001	19622368	12.5	11.9	
						RPD = 5.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	850763	50.0	51.1	
1	3.790	3.792	-0.002	1525040	50.0	48.4	
1	4.370	4.369	0.001	4093991	50.0	55.9	M
1	4.540	4.541	-0.001	1419306	50.0	49.6	M
1	4.669	4.668	0.001	875432	50.0	45.8	M
1	5.138	5.138	0.000	1291483	50.0	57.7	M
1	5.291	5.291	0.000	1405217	50.0	54.7	M
1	5.684	5.683	0.001	968927	50.0	49.3	M
		Average of Peak Amounts =				51.6	
2	2.460	2.461	-0.001	1632023	50.0	53.3	
2	2.848	2.849	-0.001	3076531	50.0	51.4	
2	3.072	3.073	-0.001	1941803	50.0	49.2	
2	3.373	3.374	-0.001	6361852	50.0	49.1	M
2	3.526	3.527	-0.001	2512031	50.0	48.3	M
2	3.596	3.598	-0.002	1541409	50.0	48.9	M
2	4.007	4.007	0.000	2956915	50.0	54.7	M
2	4.456	4.458	-0.002	1346872	50.0	47.7	
		Average of Peak Amounts =				50.3	
						RPD = 2.41	
8 PCB-1260							M
1	6.712	6.711	0.001	953484	50.0	48.5	M
1	6.978	6.977	0.001	2212250	50.0	48.3	M
1	7.359	7.357	0.002	2799061	50.0	51.1	M
1	8.220	8.219	0.001	1853337	50.0	49.5	M
1	8.833	8.833	0.000	1989500	50.0	50.3	M
1	9.419	9.418	0.001	4707328	50.0	47.9	
1	9.987	9.983	0.004	3267101	50.0	49.1	M
1	10.638	10.628	0.010	1270729	50.0	50.1	
		Average of Peak Amounts =				49.4	
2	5.466	5.465	0.001	3984343	50.0	51.0	M
2	6.208	6.208	0.000	6791126	50.0	47.7	M
2	6.387	6.384	0.003	4123239	50.0	59.8	M
2	6.759	6.758	0.001	4113633	50.0	54.5	M
2	7.289	7.288	0.001	7888872	50.0	48.6	M
2	7.791	7.788	0.003	4388246	50.0	48.3	
2	7.954	7.953	0.001	2149519	50.0	50.4	
2	9.083	9.085	-0.002	2086441	50.0	48.8	M
		Average of Peak Amounts =				51.1	
						RPD = 3.53	
$ 11 DCB Decachlorobiphenyl							M
1	11.163	11.149	0.014	10697814	12.5	11.7	M
2	9.923	9.919	0.004	17100773	12.5	12.0	M
						RPD = 2.80	
S 12 Polychlorinated biphenyls, Total							
1						100.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

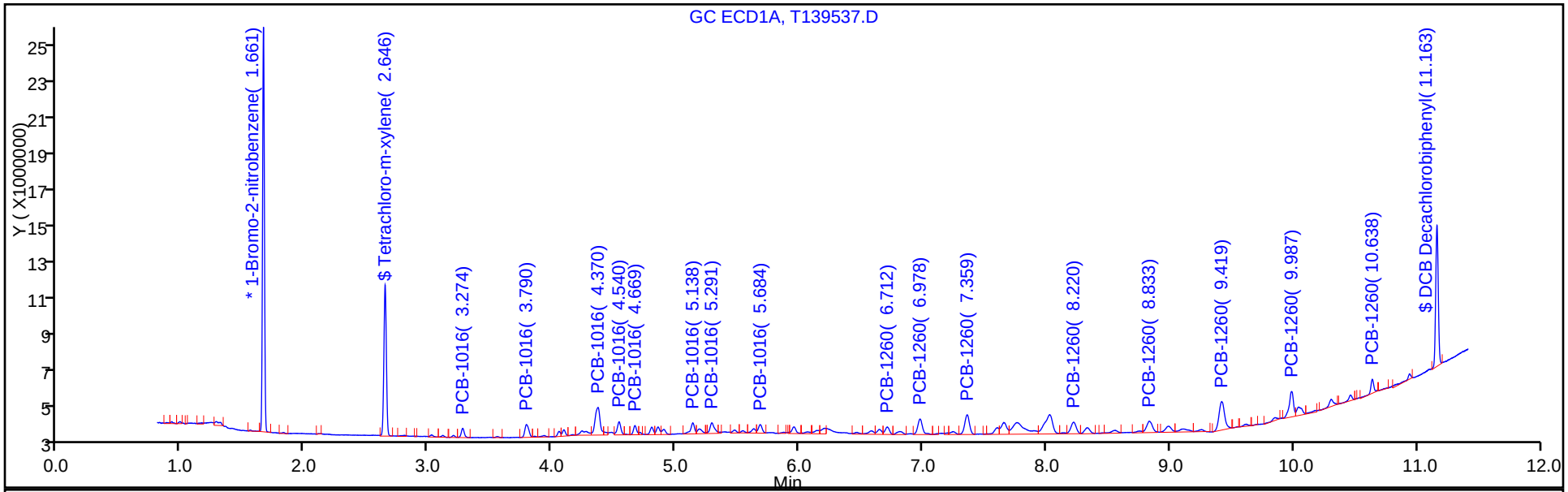
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

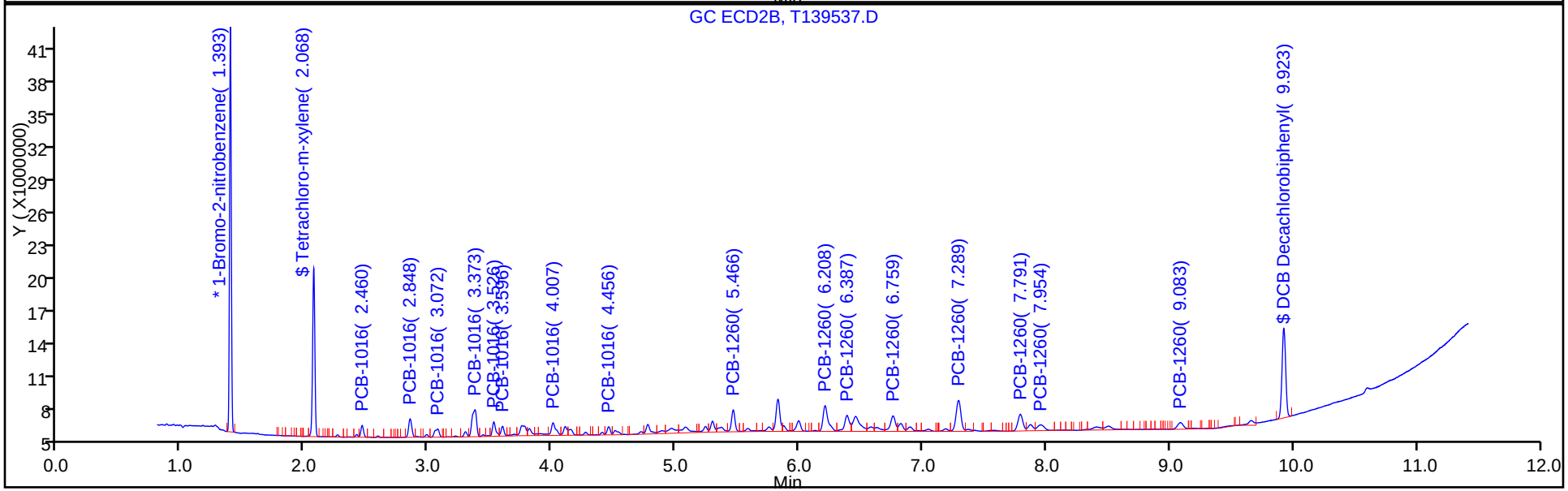
Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

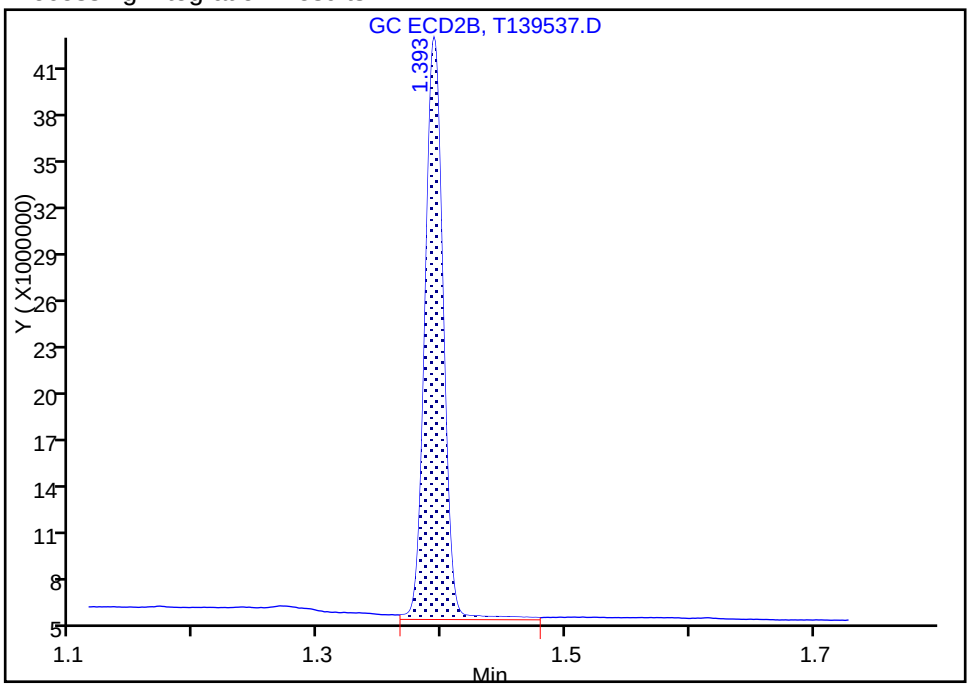
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D		
Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

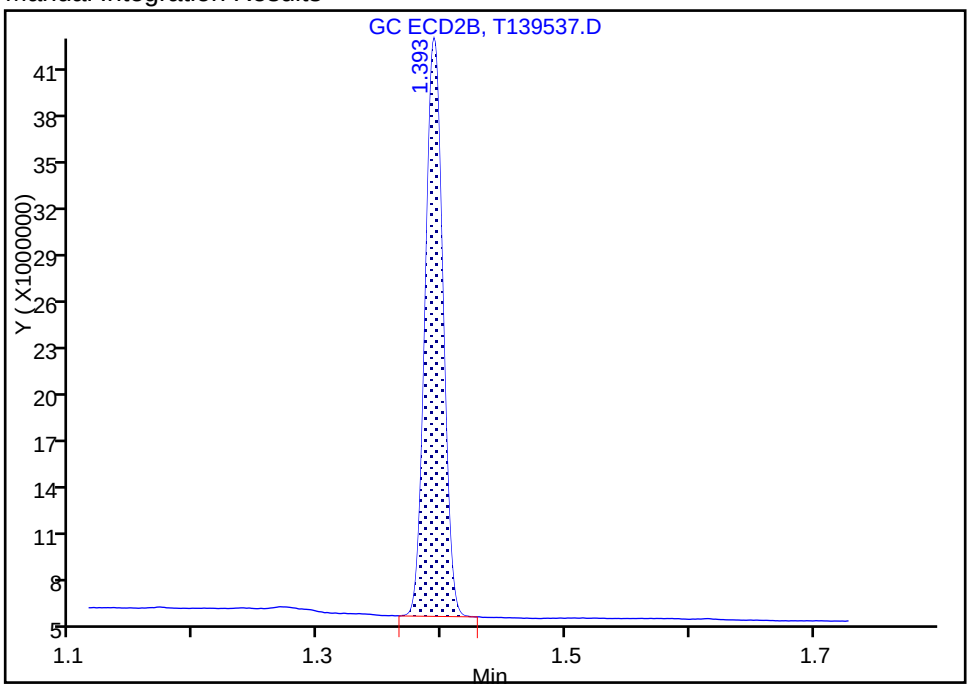
Processing Integration Results

RT: 1.39
Area: 38067587
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 36565598
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:05:53

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

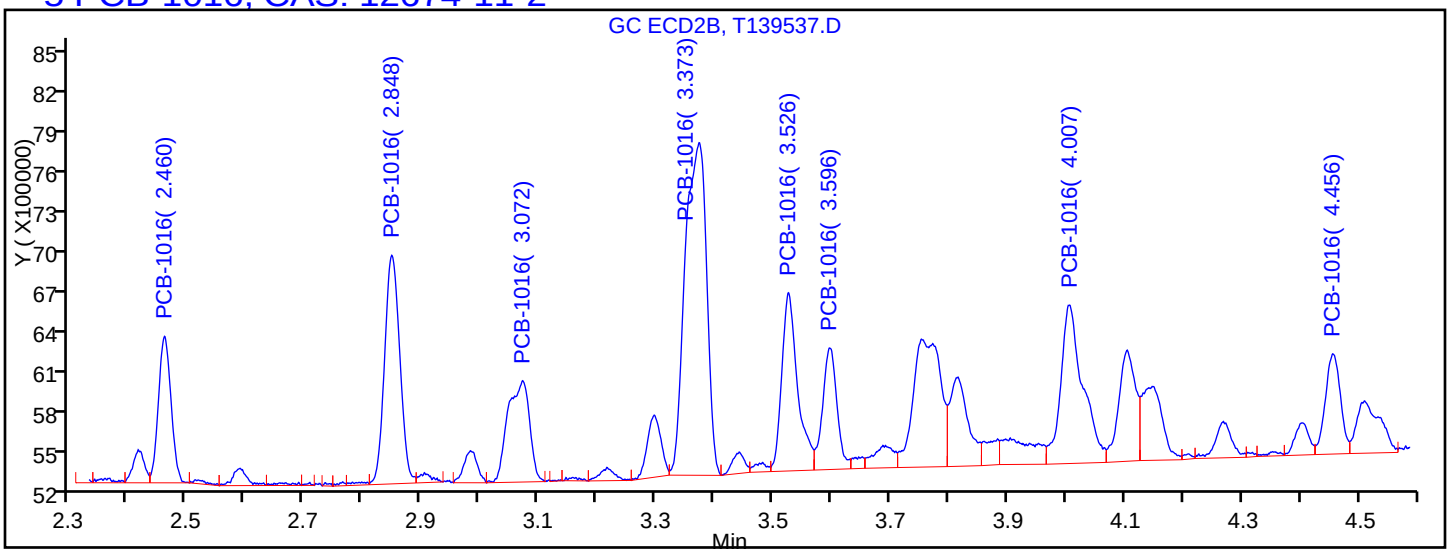
Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

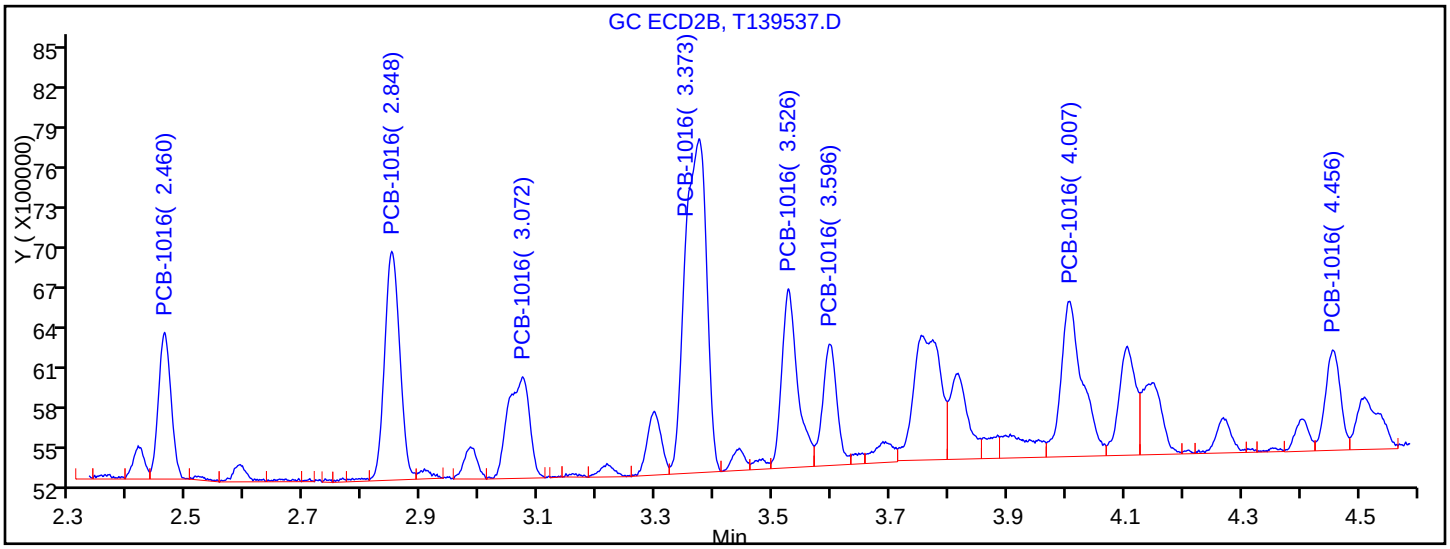
Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 1				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.460	Response = 1632023
2.848	Response = 3076531
3.072	Response = 1941803
3.373	Response = 6308699
3.526	Response = 2497015
3.596	Response = 1550710
4.007	Response = 3099642
4.456	Response = 1346872



Manual Integration Results

2.460	Response = 1632023	
2.848	Response = 3076531	
3.072	Response = 1941803	
3.373	Response = 6361852	M
3.526	Response = 2512031	M
3.596	Response = 1541409	M

Report Date: 18-Jan-2018 15:58:25 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D

Injection Date: 18-Jan-2018 12:51:50 Instrument ID: CPESTGC11

Lims ID: IC PCB 1

Client ID:

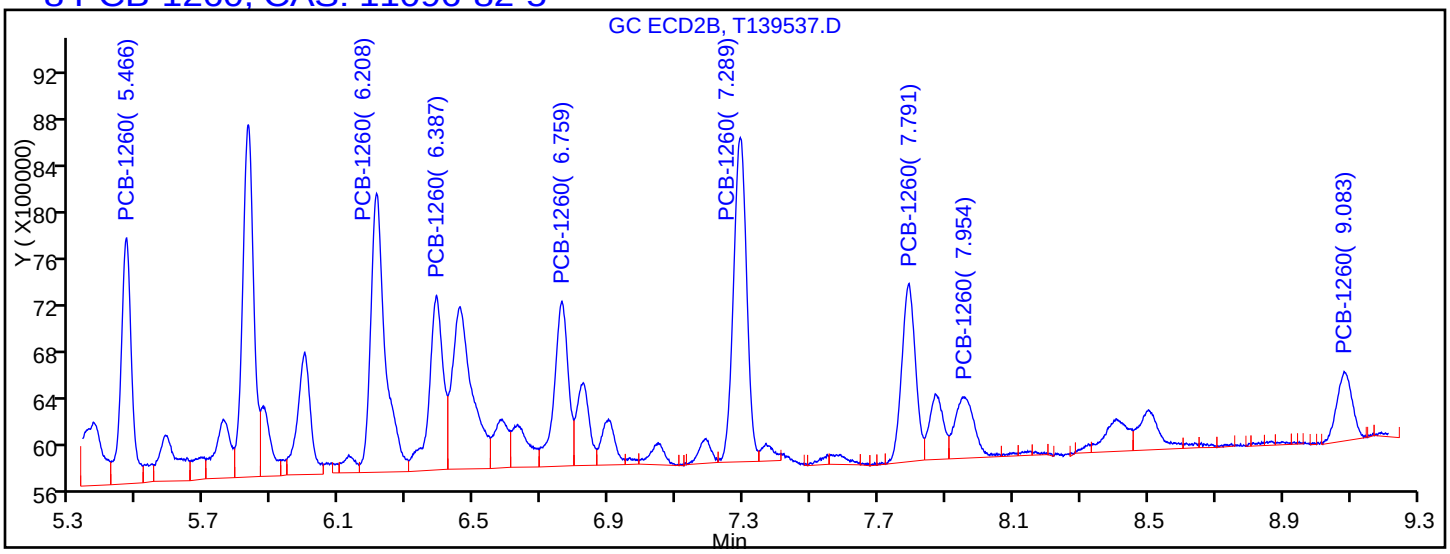
Operator ID: ALS Bottle#: 7 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

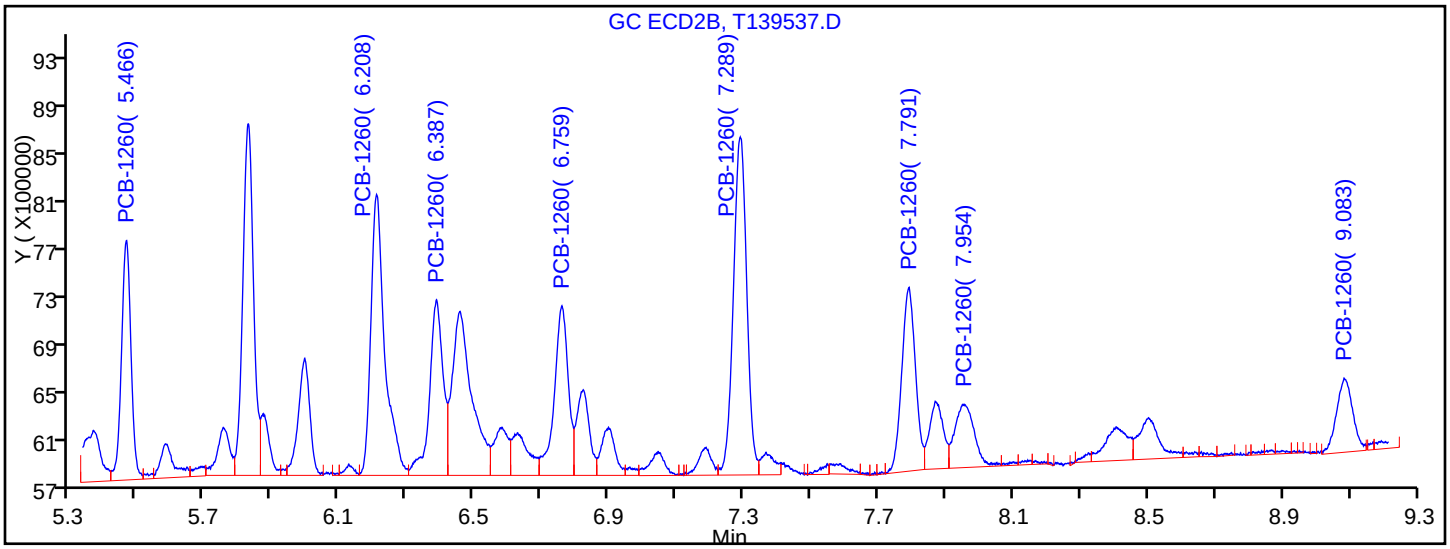
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.466	Response = 4663802
6.208	Response = 7270565
6.387	Response = 4404457
6.759	Response = 4143259
7.289	Response = 7669070
7.791	Response = 4388246
7.954	Response = 2149519
9.083	Response = 1922770



Manual Integration Results

5.466	Response = 3984343	M
6.208	Response = 6791126	M
6.387	Response = 4123239	M
6.759	Response = 4113633	M
7.289	Response = 7888872	M
7.791	Response = 4388246	

Manual Integration/User Assign Peak Report

TestAmerica Edison

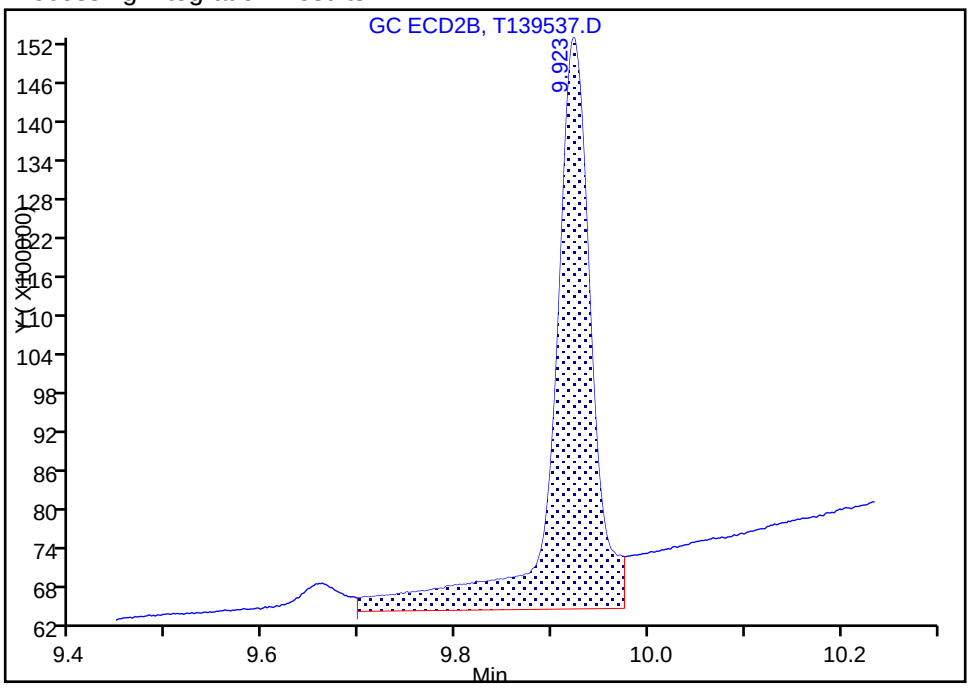
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139537.D		
Injection Date:	18-Jan-2018 12:51:50	Instrument ID:	CPESTGC11
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

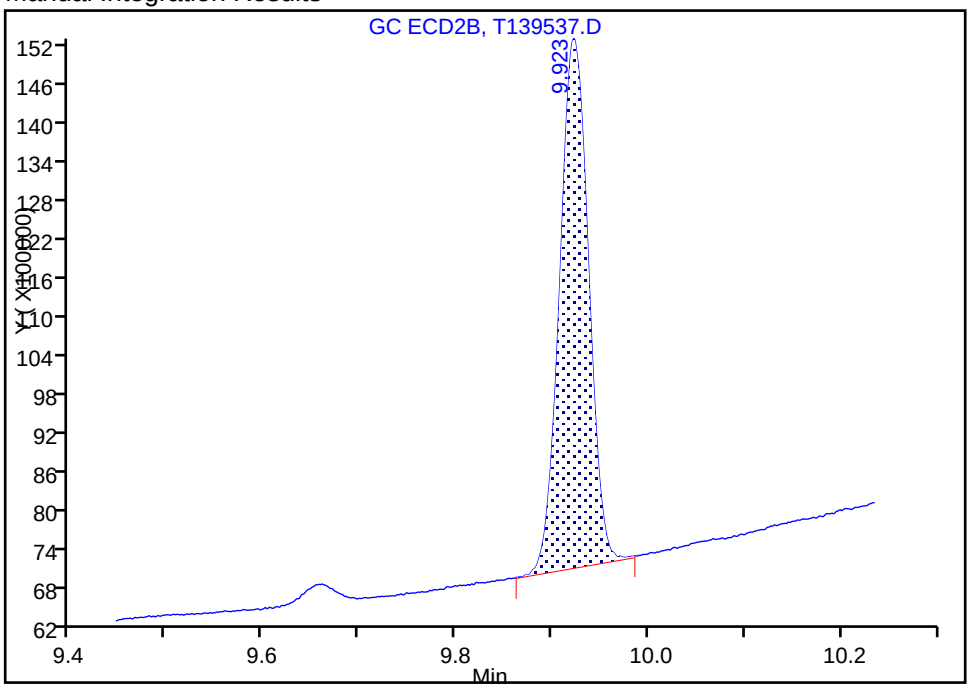
Processing Integration Results

RT: 9.92
Area: 24769746
Amount: 15.430786
Amount Units: ug/l



Manual Integration Results

RT: 9.92
Area: 17100773
Amount: 12.030827
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:05:36

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Jan-2018 13:06:25 ALS Bottle#: 8 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-003
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:48:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.660	0.001	22097063	20.0	20.0	
2	1.393	1.393	0.000	38891860	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.647	2.648	-0.001	46030497	50.0	47.0	
2	2.068	2.069	-0.001	79340456	50.0	45.3	
						RPD = 3.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	7994729	500.0	488.5	
1	3.790	3.792	-0.002	15310358	500.0	494.4	
1	4.369	4.369	0.000	34591037	500.0	480.5	
1	4.540	4.541	-0.001	13895018	500.0	494.6	
1	4.669	4.668	0.001	8875983	500.0	472.7	
1	5.137	5.138	-0.001	10546532	500.0	479.9	
1	5.291	5.291	0.000	12141547	500.0	481.3	
1	5.683	5.683	0.000	9774483	500.0	506.5	
		Average of Peak Amounts =				487.3	
2	2.460	2.461	-0.001	14931675	500.0	458.4	
2	2.849	2.849	0.000	29655119	500.0	465.9	M
2	3.072	3.073	-0.001	19611318	500.0	467.2	M
2	3.375	3.374	0.001	63537420	500.0	461.2	M
2	3.527	3.527	0.000	25330691	500.0	458.2	M
2	3.597	3.598	-0.001	15195475	500.0	453.1	M
2	4.007	4.007	0.000	25910040	500.0	451.0	M
2	4.457	4.458	-0.001	14093182	500.0	469.1	M
		Average of Peak Amounts =				460.5	
						RPD = 5.65	
8 PCB-1260							M
1	6.712	6.711	0.001	9569985	500.0	496.0	
1	6.977	6.977	0.000	22458361	500.0	499.2	
1	7.357	7.357	0.000	26667284	500.0	495.5	
1	8.219	8.219	0.000	18453962	500.0	501.9	
1	8.833	8.833	0.000	19078007	500.0	491.3	M
1	9.418	9.418	0.000	47563245	500.0	492.3	M
1	9.982	9.983	-0.001	32099137	500.0	491.4	M
1	10.628	10.628	0.000	12194366	500.0	489.0	
		Average of Peak Amounts =				494.6	
2	5.465	5.465	0.000	38934754	500.0	468.3	M
2	6.208	6.208	0.000	70258410	500.0	463.8	M
2	6.385	6.384	0.001	32653259	500.0	445.2	M
2	6.759	6.758	0.001	36144582	500.0	450.0	M
2	7.288	7.288	0.000	81080841	500.0	469.5	M
2	7.788	7.788	0.000	45026640	500.0	466.0	M
2	7.954	7.953	0.001	20668200	500.0	455.4	M
2	9.083	9.085	-0.002	21119846	500.0	464.5	M
		Average of Peak Amounts =				460.3	
						RPD = 7.17	
$ 11 DCB Decachlorobiphenyl							M
1	11.147	11.149	-0.002	42101314	50.0	46.9	M
2	9.920	9.919	0.001	67787002	50.0	44.8	
						RPD = 4.43	
S 12 Polychlorinated biphenyls, Total							
1						981.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

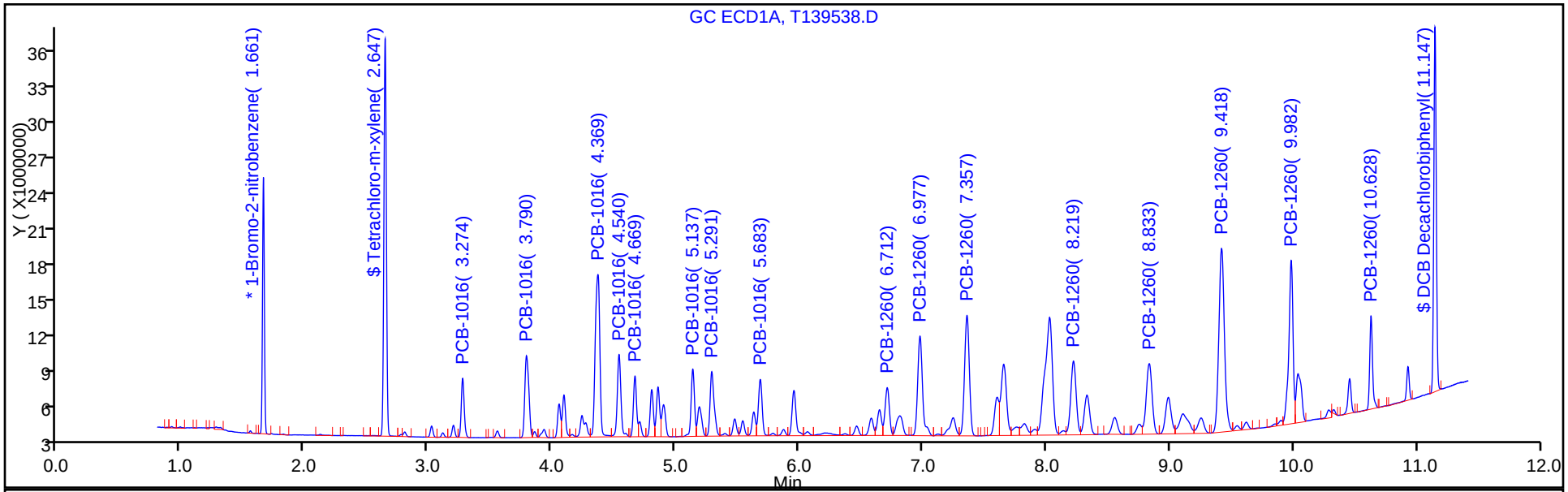
SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

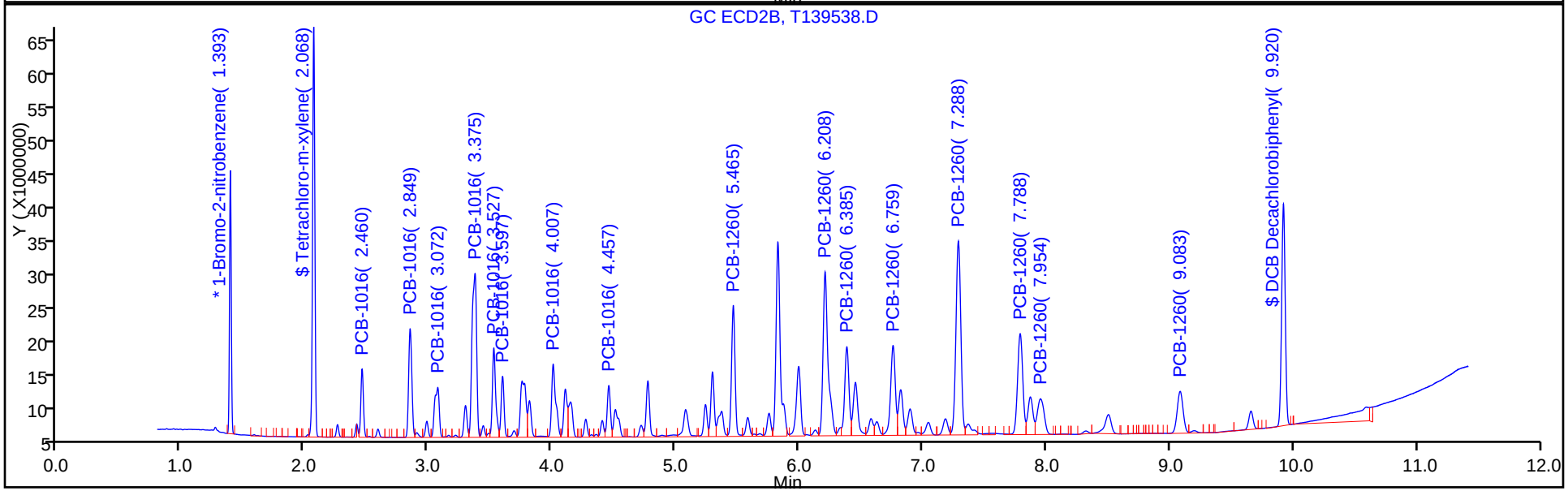
Report Date: 18-Jan-2018 15:58:30 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D

Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

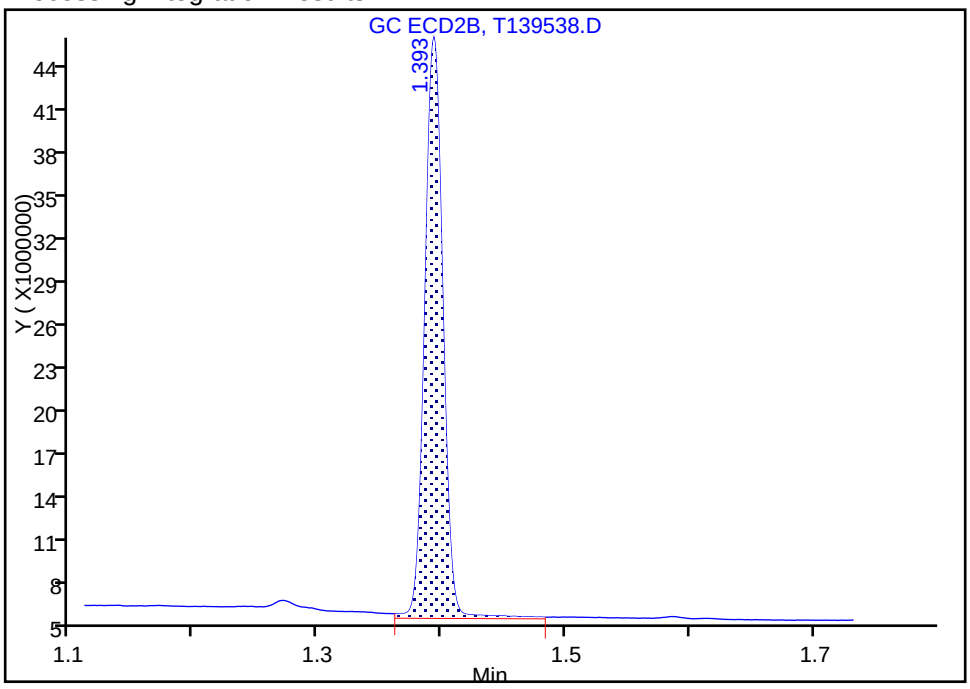
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D				
Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

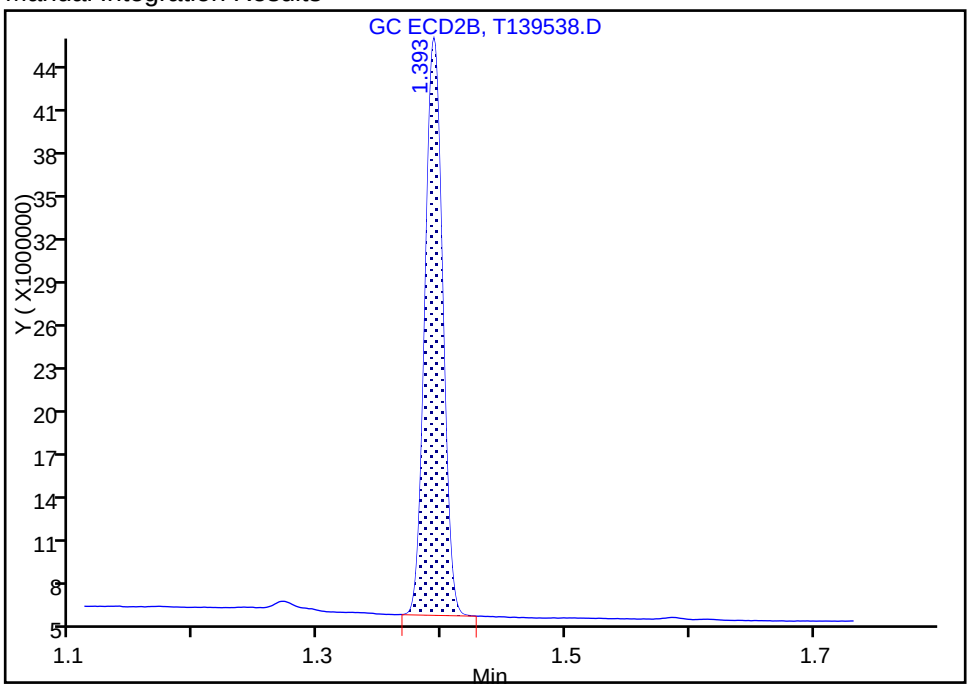
Processing Integration Results

RT: 1.39
Area: 40497655
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 38891860
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:04:57

Audit Action: Manually Integrated Audit Reason: Peak not integrated

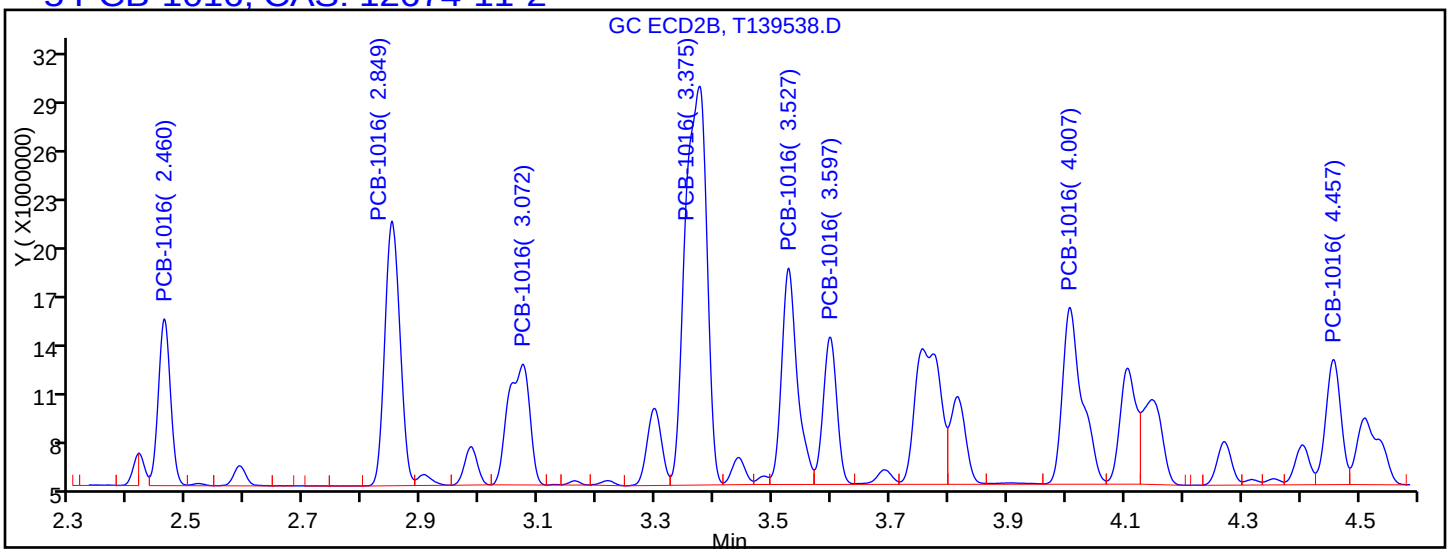
Report Date: 18-Jan-2018 15:58:30 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D

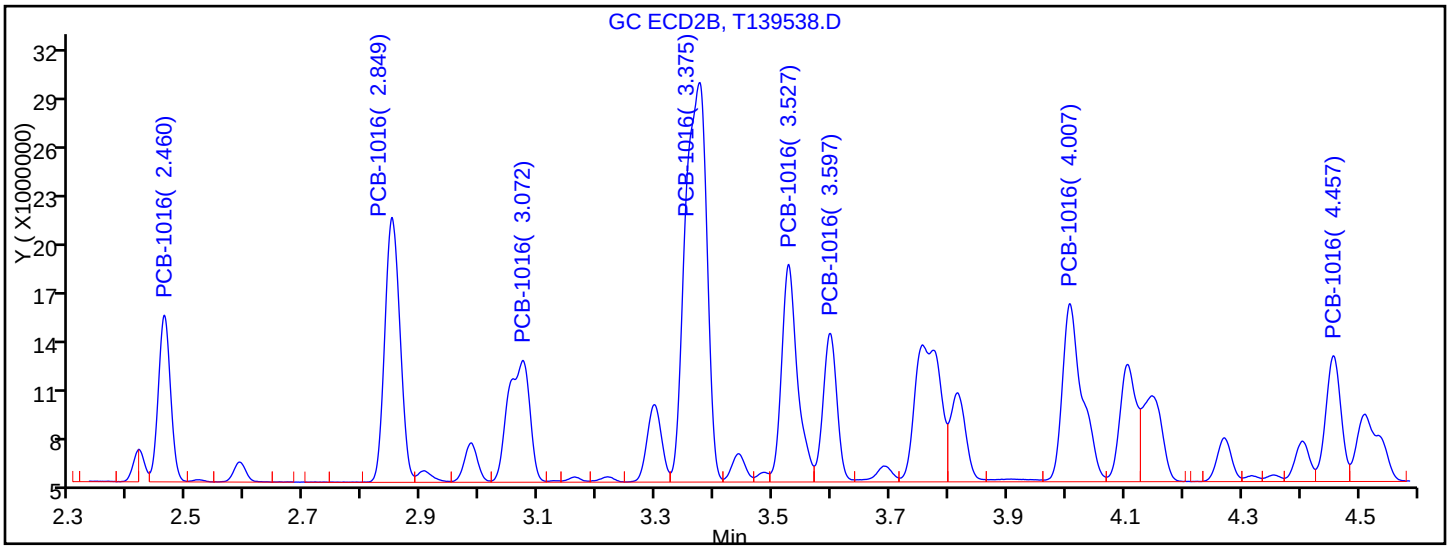
Injection Date:	18-Jan-2018 13:06:25	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.460	Response = 14931675
2.849	Response = 29546030
3.072	Response = 19236494
3.375	Response = 63283367
3.527	Response = 24968142
3.597	Response = 14864199
4.007	Response = 25388870
4.457	Response = 13948994



Manual Integration Results

2.460	Response = 14931675	
2.849	Response = 29655119	M
3.072	Response = 19611318	M
3.375	Response = 63537420	M
3.527	Response = 25330691	M
3.597	Response = 15195475	M

Report Date: 18-Jan-2018 15:58:30 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139538.D

Injection Date: 18-Jan-2018 13:06:25 Instrument ID: CPESTGC11

Lims ID: IC PCB 2

Client ID:

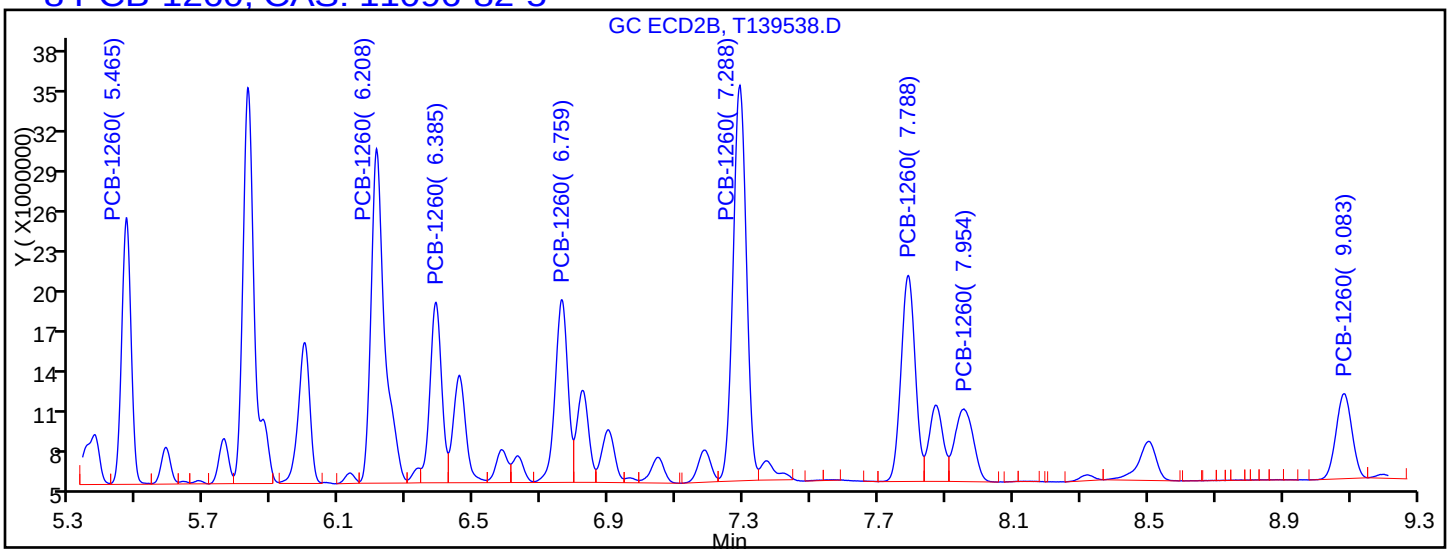
Operator ID: ALS Bottle#: 8 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

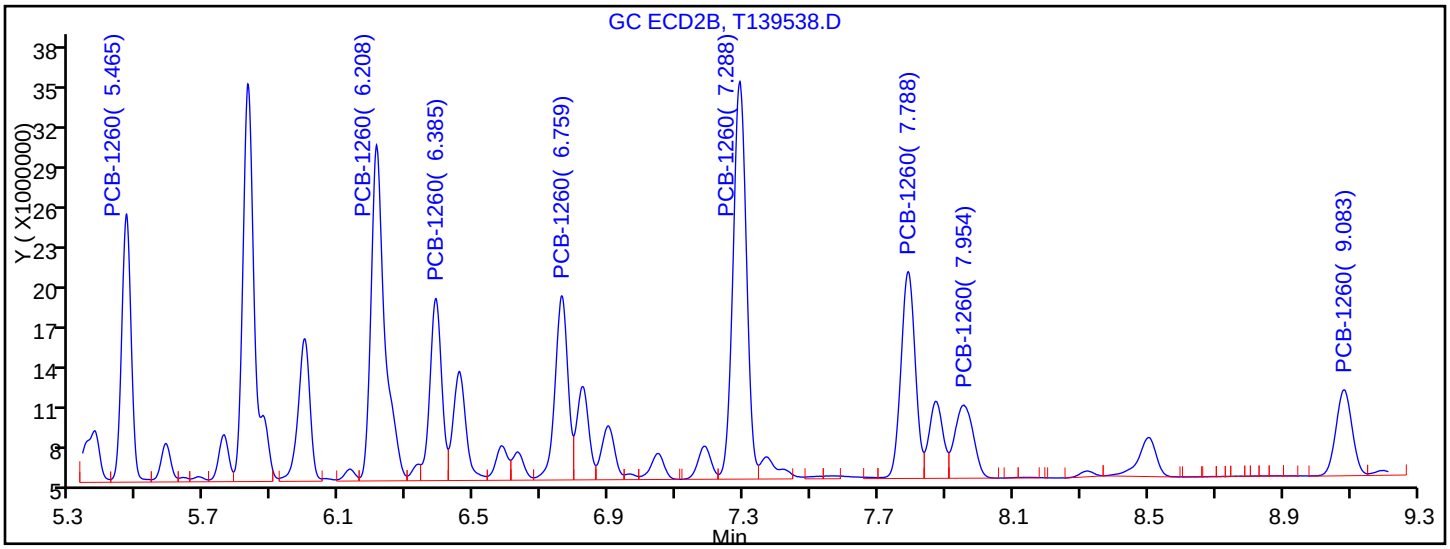
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.465	Response = 38021519
6.208	Response = 69233231
6.385	Response = 32019770
6.759	Response = 35376208
7.288	Response = 79944811
7.788	Response = 44499279
7.954	Response = 20446162
9.083	Response = 20466131



Manual Integration Results

5.465	Response = 38934754	M
6.208	Response = 70258410	M
6.385	Response = 32653259	M
6.759	Response = 36144582	M
7.288	Response = 81080841	M
7.788	Response = 45026640	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 18-Jan-2018 13:21:03 ALS Bottle#: 9 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-004
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:31 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 12:46:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.663	1.663	0.000	22728043	20.0	20.0	
2	1.395	1.395	0.000	34898123	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.648	2.648	0.000	103371294	100.0	102.7	
2	2.069	2.069	0.000	165445960	100.0	105.2	
						RPD = 2.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.275	3.275	0.000	17228188	1000.0	1023.4	
1	3.792	3.792	0.000	32975897	1000.0	1035.2	
1	4.369	4.369	0.000	73331690	1000.0	990.3	
1	4.541	4.541	0.000	29619100	1000.0	1025.0	
1	4.668	4.668	0.000	19223663	1000.0	995.4	
1	5.138	5.138	0.000	22307558	1000.0	986.8	
1	5.291	5.291	0.000	25838231	1000.0	995.9	
1	5.683	5.683	0.000	20149232	1000.0	1015.1	
		Average of Peak Amounts =				1008.4	
2	2.461	2.461	0.000	30734381	1000.0	1051.5	
2	2.849	2.849	0.000	60931521	1000.0	1066.9	M
2	3.073	3.073	0.000	40138172	1000.0	1065.6	M
2	3.374	3.374	0.000	133555535	1000.0	1080.4	M
2	3.527	3.527	0.000	54142645	1000.0	1091.5	M
2	3.598	3.598	0.000	32693440	1000.0	1086.4	M
2	4.007	4.007	0.000	54425880	1000.0	1055.9	M
2	4.458	4.458	0.000	29811568	1000.0	1105.8	
		Average of Peak Amounts =				1075.5	
						RPD = 6.44	
8 PCB-1260							M
1	6.711	6.711	0.000	20266164	1000.0	1021.3	
1	6.977	6.977	0.000	47357545	1000.0	1023.5	
1	7.357	7.357	0.000	55679631	1000.0	1005.8	
1	8.219	8.219	0.000	38388615	1000.0	1015.1	
1	8.833	8.833	0.000	40282563	1000.0	1008.5	
1	9.418	9.418	0.000	101428257	1000.0	1020.7	
1	9.983	9.983	0.000	67439832	1000.0	1003.7	
1	10.628	10.628	0.000	26069754	1000.0	1016.4	
		Average of Peak Amounts =				1014.4	
2	5.465	5.465	0.000	82215420	1000.0	1102.0	M
2	6.208	6.208	0.000	153491168	1000.0	1129.2	M
2	6.384	6.384	0.000	69938436	1000.0	1062.6	M
2	6.758	6.758	0.000	78706468	1000.0	1092.1	M
2	7.288	7.288	0.000	173091719	1000.0	1117.0	M
2	7.788	7.788	0.000	96642838	1000.0	1114.7	
2	7.953	7.953	0.000	44713283	1000.0	1097.9	
2	9.085	9.085	0.000	44687883	1000.0	1095.2	M
		Average of Peak Amounts =				1101.4	
						RPD = 8.22	
$ 11 DCB Decachlorobiphenyl							M
1	11.149	11.149	0.000	92036271	100.0	99.6	M
2	9.919	9.919	0.000	143560517	100.0	105.8	
						RPD = 6.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

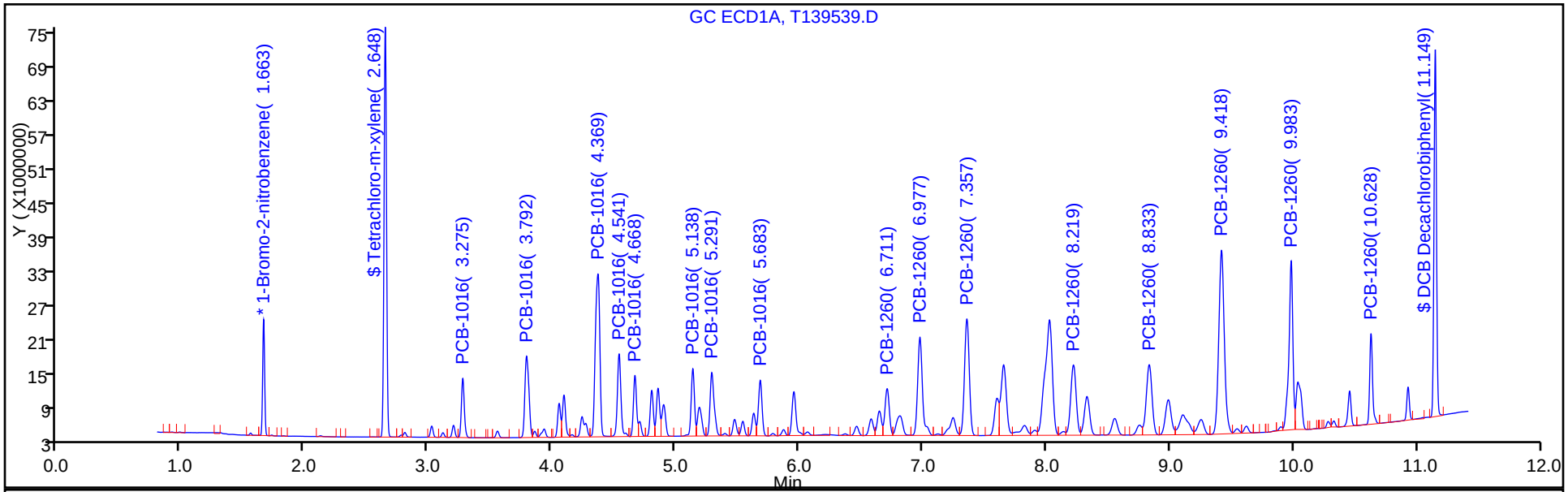
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

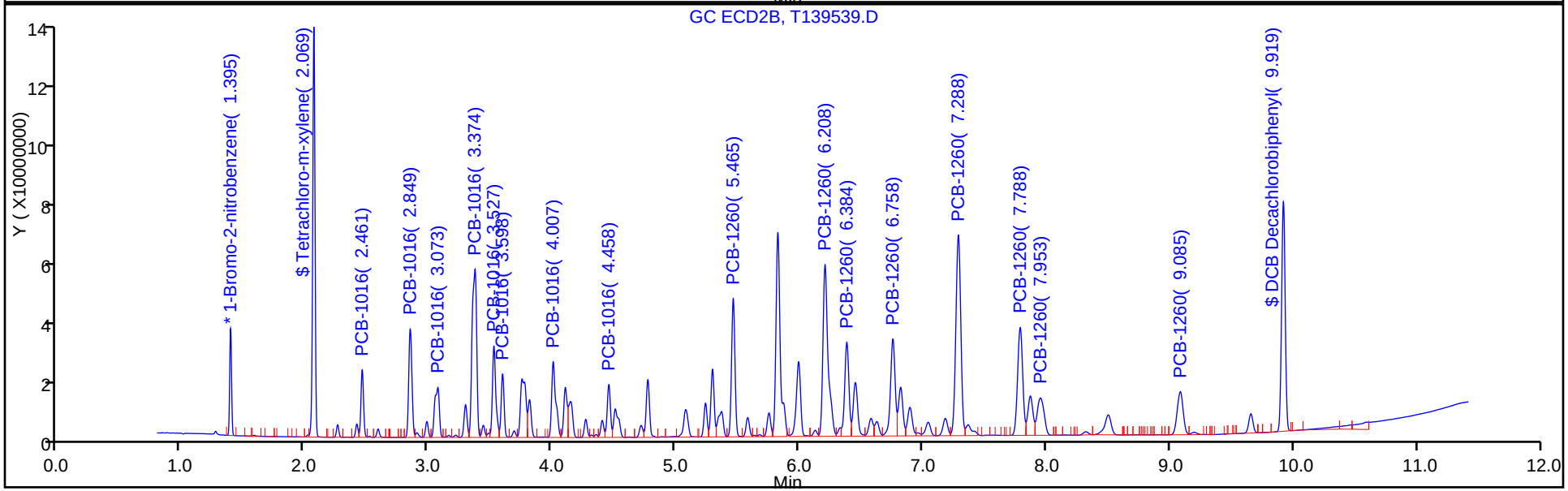
Report Date: 18-Jan-2018 15:58:34 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D

Injection Date:	18-Jan-2018 13:21:03	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

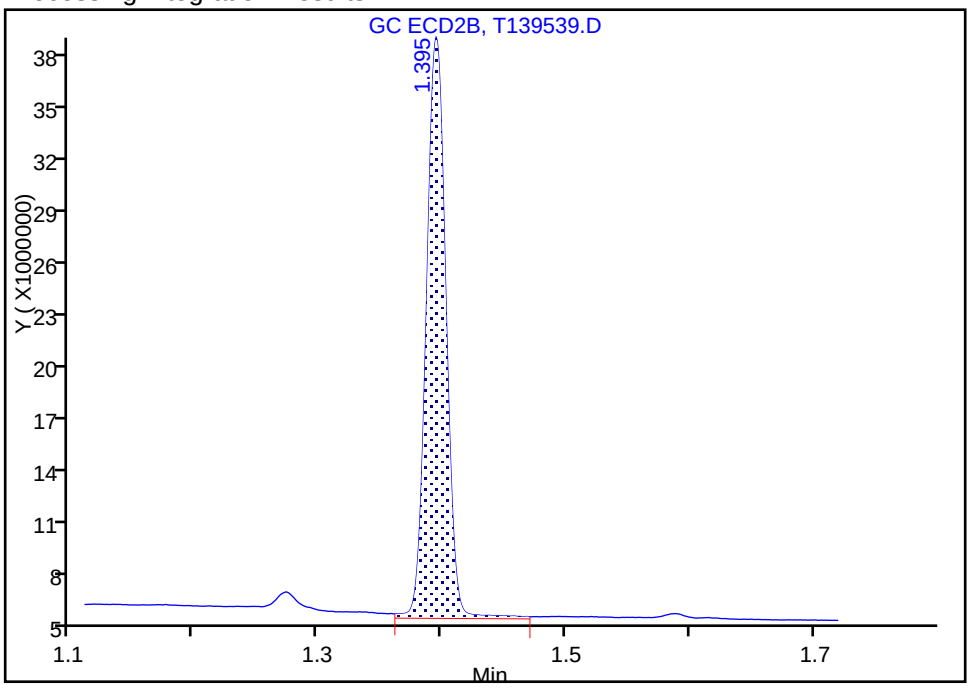
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D				
Injection Date:	18-Jan-2018 13:21:03	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 3				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

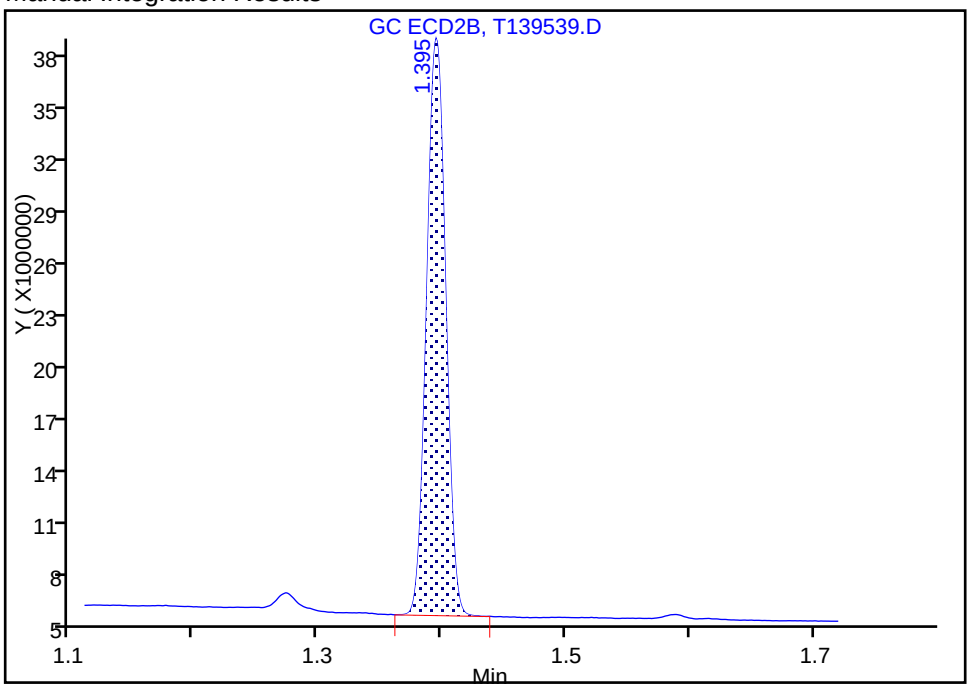
Processing Integration Results

RT: 1.40
Area: 36117695
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.40
Area: 34898123
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:03:36

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:58:34 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D

Injection Date: 18-Jan-2018 13:21:03 Instrument ID: CPESTGC11

Lims ID: IC PCB 3

Client ID:

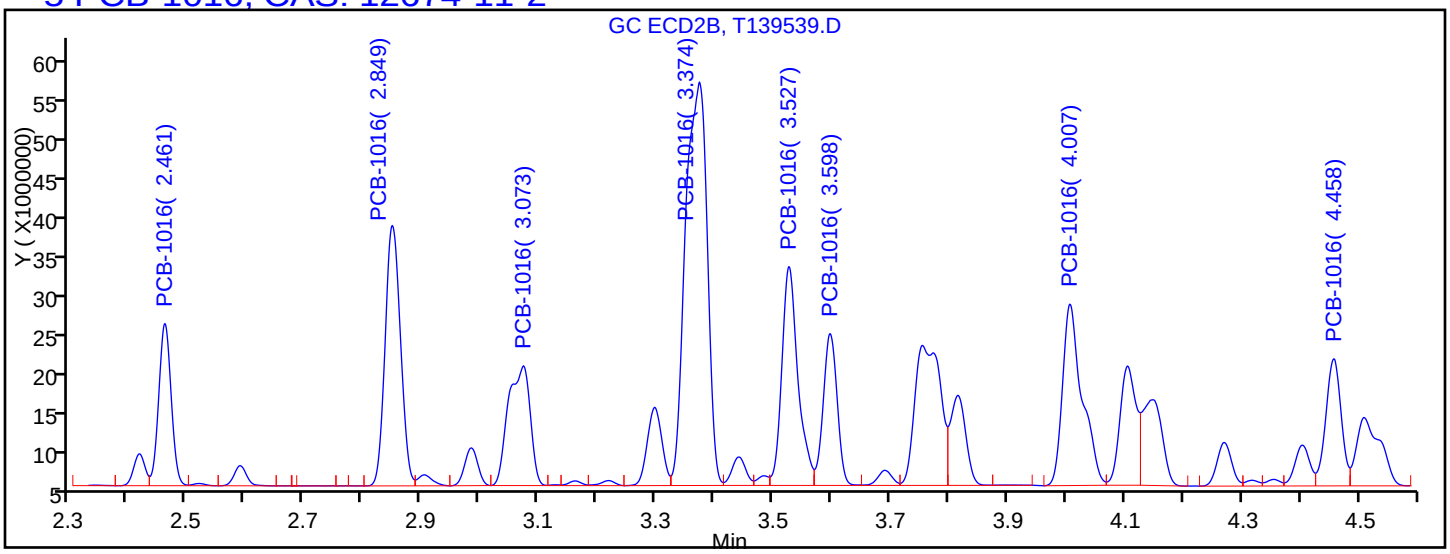
Operator ID: ALS Bottle#: 9 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

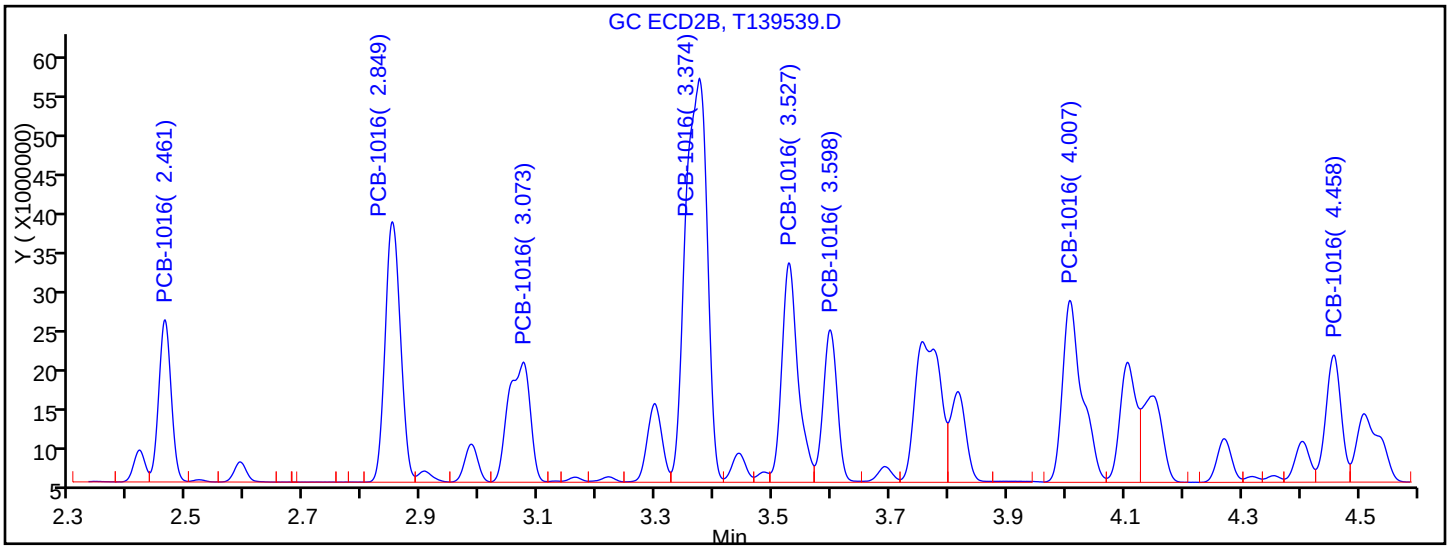
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.461	Response = 30734381
2.849	Response = 60878827
3.073	Response = 39825352
3.374	Response = 133189461
3.527	Response = 53789248
3.598	Response = 32311321
4.007	Response = 53954984
4.458	Response = 29811568



Manual Integration Results

2.461	Response = 30734381	
2.849	Response = 60931521	M
3.073	Response = 40138172	M
3.374	Response = 133555535	M
3.527	Response = 54142645	M
3.598	Response = 32693440	M

Report Date: 18-Jan-2018 15:58:34 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139539.D

Injection Date: 18-Jan-2018 13:21:03 Instrument ID: CPESTGC11

Lims ID: IC PCB 3

Client ID:

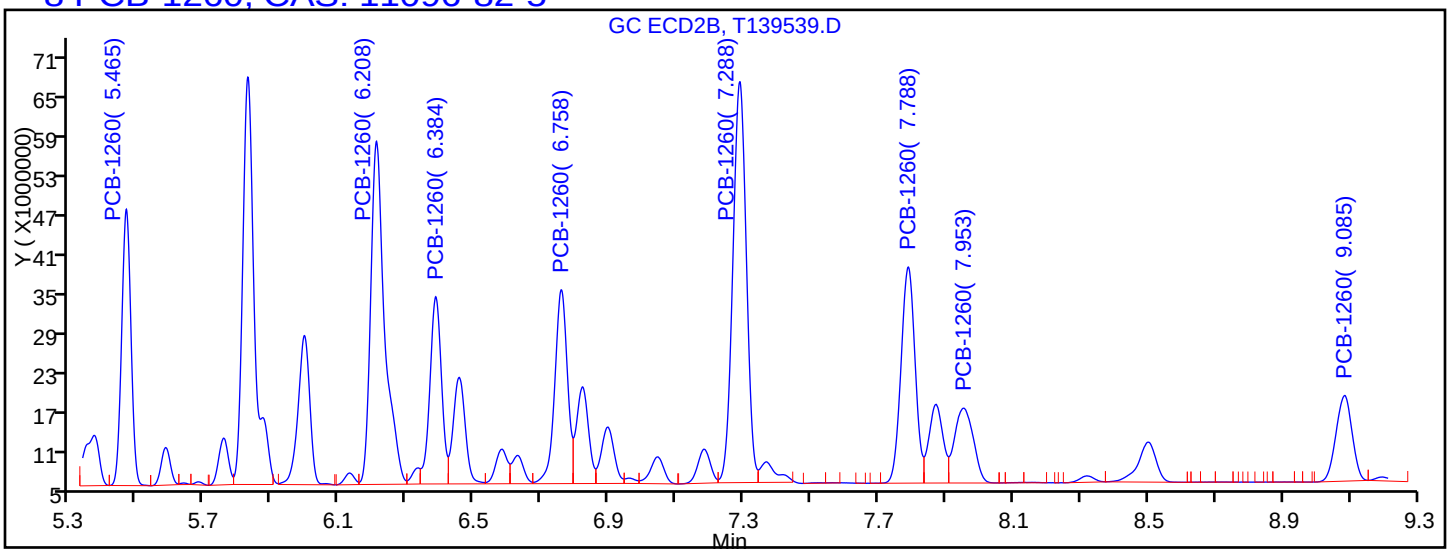
Operator ID: ALS Bottle#: 9 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

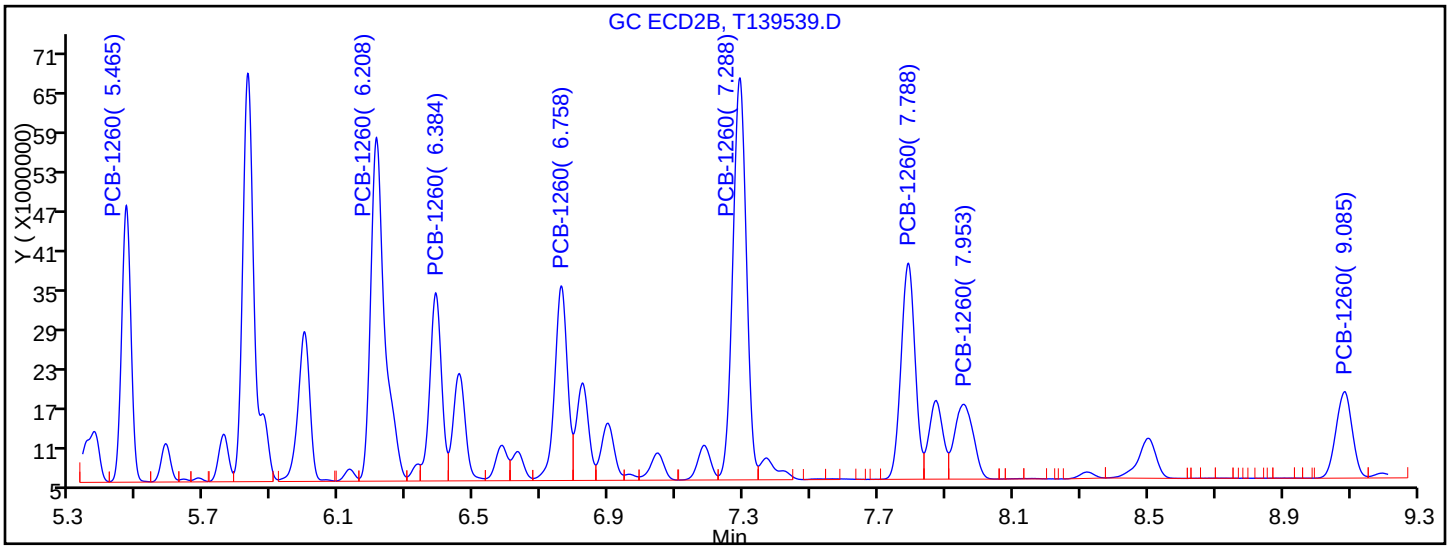
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.465	Response = 81703184
6.208	Response = 152636843
6.384	Response = 69261283
6.758	Response = 77861595
7.288	Response = 171833791
7.788	Response = 96642838
7.953	Response = 44713283
9.085	Response = 43562100



Manual Integration Results

5.465	Response = 82215420	M
6.208	Response = 153491168	M
6.384	Response = 69938436	M
6.758	Response = 78706468	M
7.288	Response = 173091719	M
7.788	Response = 96642838	

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Jan-2018 13:35:39 ALS Bottle#: 10 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-005
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:35 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 13:02:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.663	-0.001	22731265	20.0	20.0	
2	1.394	1.395	-0.001	34893059	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.647	2.648	-0.001	152370185	150.0	151.4	
2	2.069	2.069	0.000	251001580	150.0	159.7	
						RPD = 5.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.274	3.275	-0.001	24095036	1500.0	1431.1	
1	3.791	3.792	-0.001	46001985	1500.0	1444.0	
1	4.370	4.369	0.001	102235070	1500.0	1380.4	
1	4.541	4.541	0.000	41073474	1500.0	1421.2	
1	4.669	4.668	0.001	32223433	1500.0	1668.3	
1	5.136	5.138	-0.002	30669172	1500.0	1356.5	
1	5.291	5.291	0.000	36050143	1500.0	1389.3	
1	5.683	5.683	0.000	28140525	1500.0	1417.5	
		Average of Peak Amounts =				1438.5	
2	2.460	2.461	-0.001	45110649	1500.0	1543.6	
2	2.850	2.849	0.001	88221211	1500.0	1545.0	M
2	3.074	3.073	0.001	58910019	1500.0	1564.1	M
2	3.375	3.374	0.001	193661696	1500.0	1566.8	M
2	3.527	3.527	0.000	78145013	1500.0	1575.6	M
2	3.598	3.598	0.000	47461148	1500.0	1577.4	M
2	4.007	4.007	0.000	77544661	1500.0	1504.6	M
2	4.458	4.458	0.000	41654389	1500.0	1545.4	M
		Average of Peak Amounts =				1552.8	
						RPD = 7.64	
8 PCB-1260							M
1	6.710	6.711	-0.001	28619903	1500.0	1442.0	
1	6.976	6.977	-0.001	66271968	1500.0	1432.1	
1	7.357	7.357	0.000	78111594	1500.0	1410.8	
1	8.219	8.219	0.000	53845731	1500.0	1423.6	
1	8.831	8.833	-0.002	57055383	1500.0	1428.2	
1	9.417	9.418	-0.001	143635772	1500.0	1445.2	
1	9.980	9.983	-0.003	96921176	1500.0	1442.2	M
1	10.624	10.628	-0.004	36606390	1500.0	1427.1	
		Average of Peak Amounts =				1431.4	
2	5.464	5.465	-0.001	112669732	1500.0	1510.5	M
2	6.209	6.208	0.001	208513259	1500.0	1534.2	M
2	6.384	6.384	0.000	93758515	1500.0	1424.7	M
2	6.758	6.758	0.000	105142657	1500.0	1459.1	M
2	7.289	7.288	0.001	231651540	1500.0	1495.1	M
2	7.788	7.788	0.000	131101968	1500.0	1512.4	
2	7.951	7.953	-0.002	61560319	1500.0	1511.8	
2	9.084	9.085	-0.001	62145335	1500.0	1523.3	M
		Average of Peak Amounts =				1496.4	
						RPD = 4.44	
$ 11 DCB Decachlorobiphenyl							M
1	11.139	11.149	-0.010	138615998	150.0	150.0	
2	9.919	9.919	0.000	212601392	150.0	156.7	M
						RPD = 4.39	
S 12 Polychlorinated biphenyls, Total							
1						2869.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

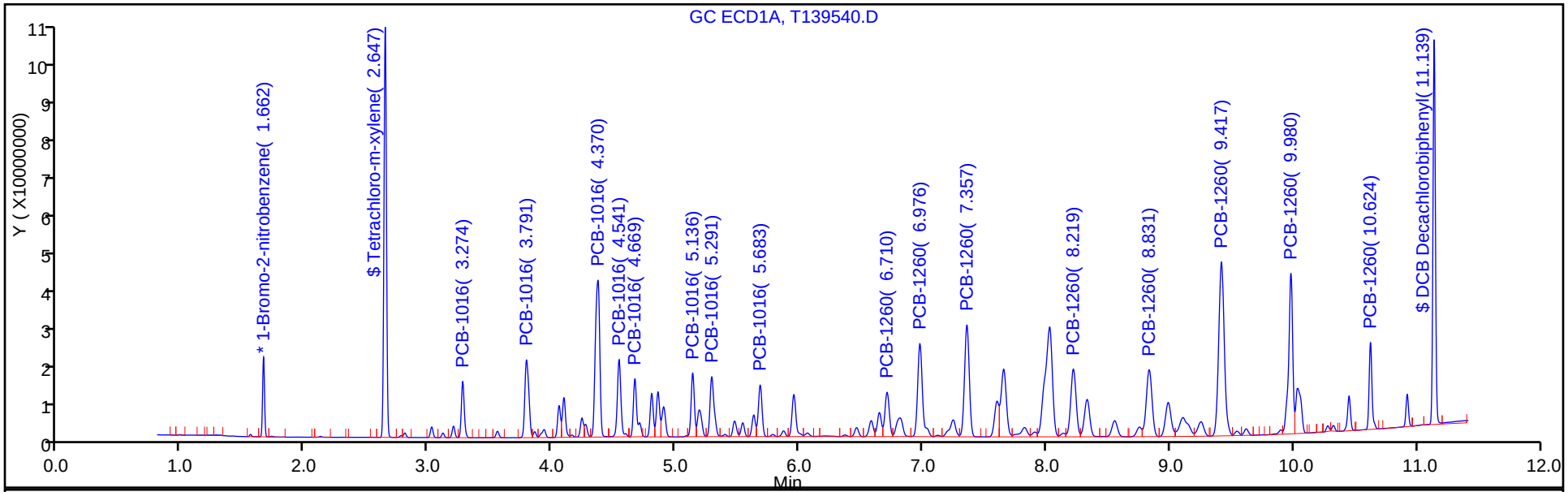
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

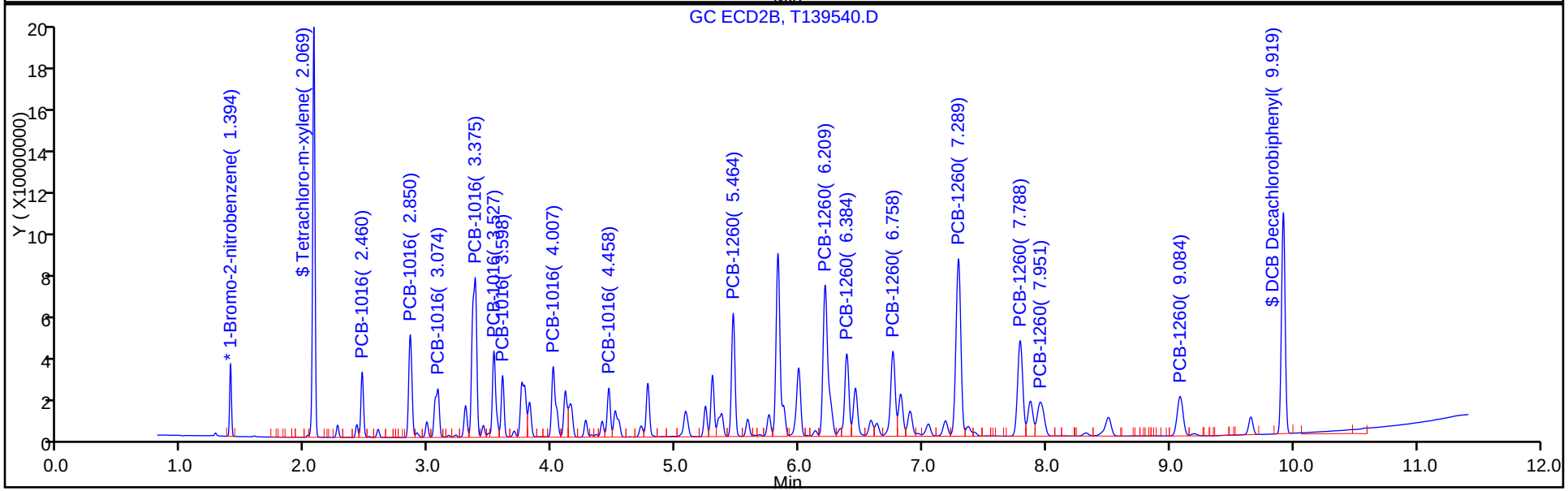
Report Date: 18-Jan-2018 15:58:37 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D

Injection Date:	18-Jan-2018 13:35:39	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

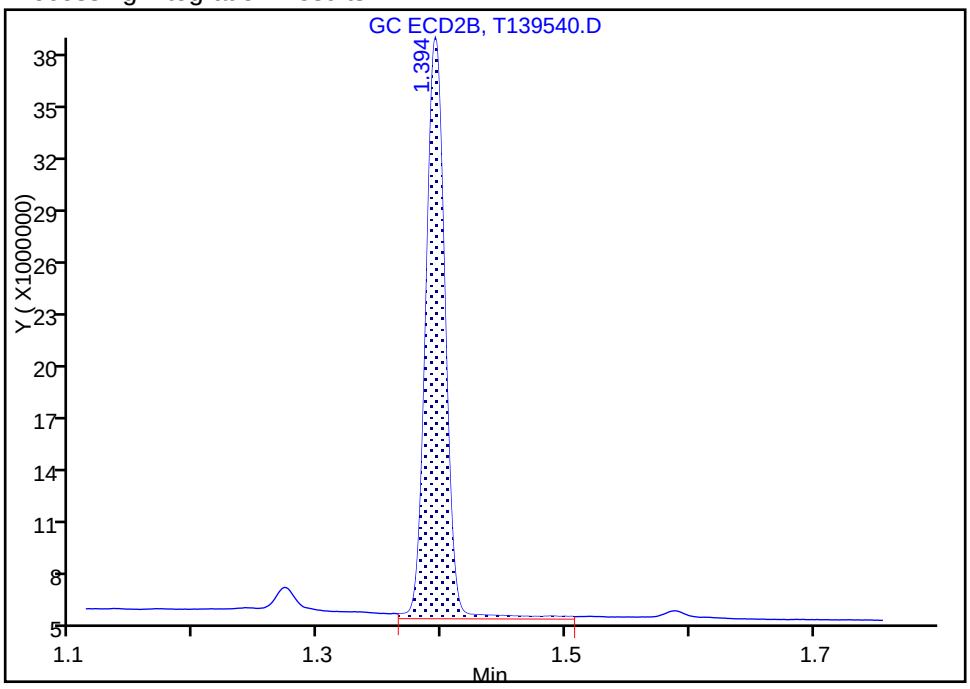
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D				
Injection Date:	18-Jan-2018 13:35:39	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 4				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

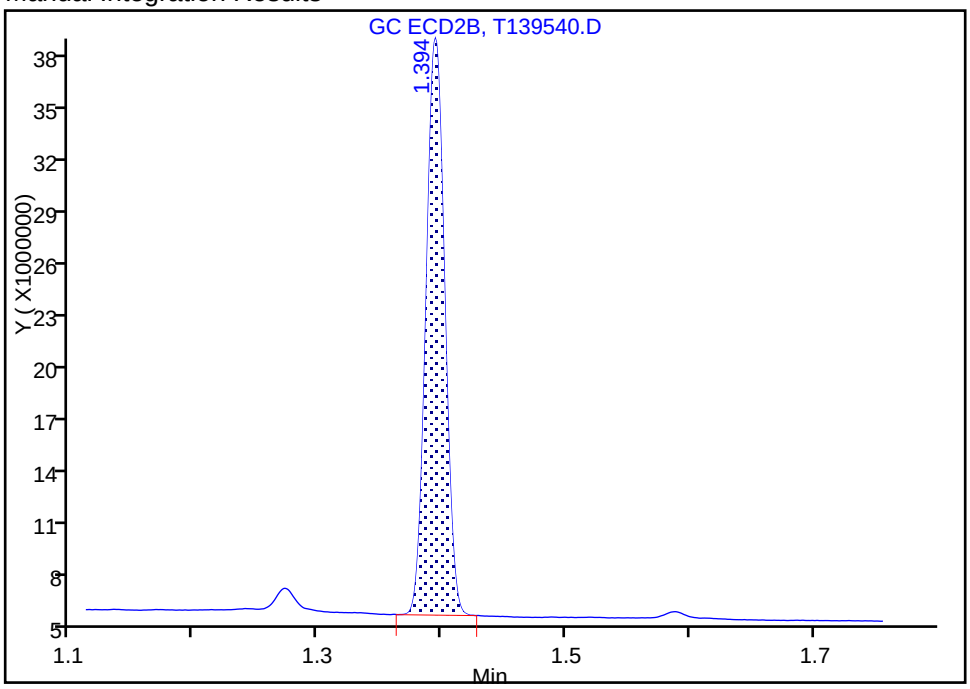
Processing Integration Results

RT: 1.39
Area: 36712908
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 34893059
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:02:50

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:58:37 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D

Injection Date: 18-Jan-2018 13:35:39 Instrument ID: CPESTGC11

Lims ID: IC PCB 4

Client ID:

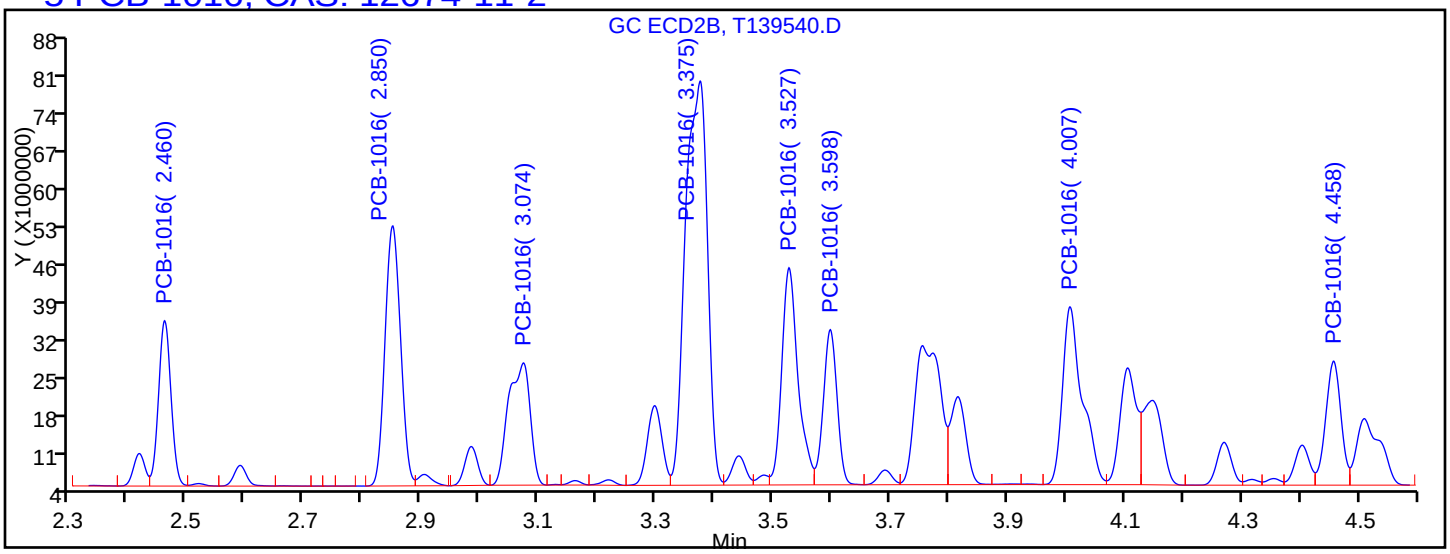
Operator ID: ALS Bottle#: 10 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

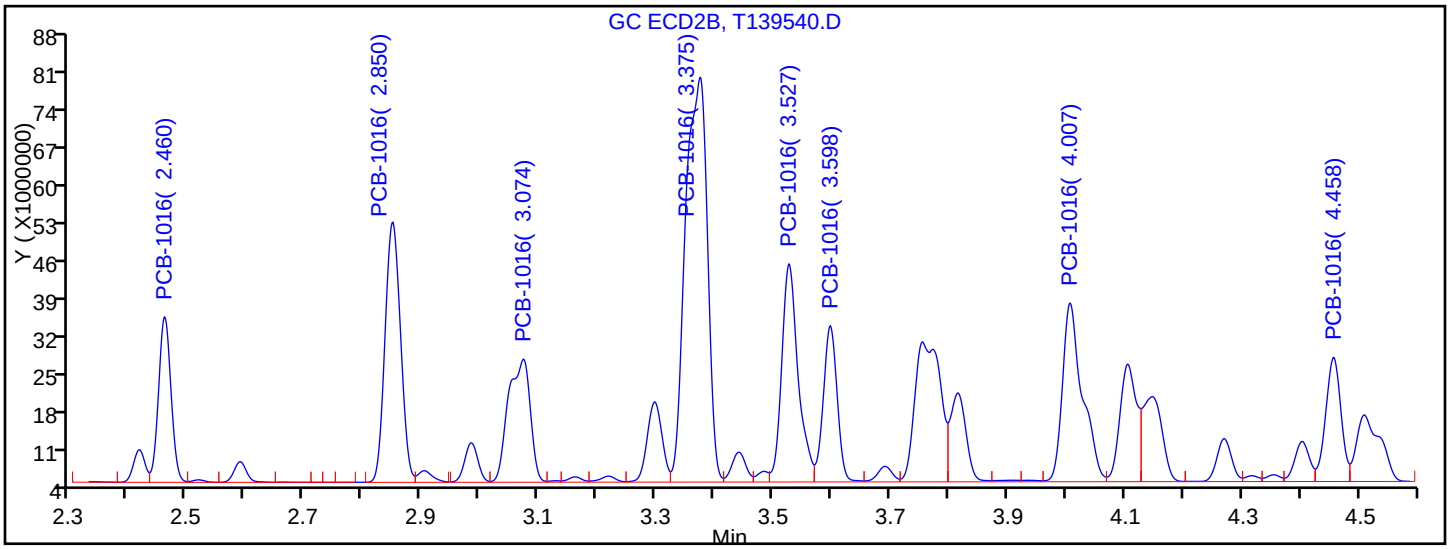
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.460	Response = 45110649
2.850	Response = 88079745
3.074	Response = 58019889
3.375	Response = 193027804
3.527	Response = 77435693
3.598	Response = 46624187
4.007	Response = 76544025
4.458	Response = 41585309



Manual Integration Results

2.460	Response = 45110649	
2.850	Response = 88221211	M
3.074	Response = 58910019	M
3.375	Response = 193661696	M
3.527	Response = 78145013	M
3.598	Response = 47461148	M

Report Date: 18-Jan-2018 15:58:37 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D

Injection Date: 18-Jan-2018 13:35:39 Instrument ID: CPESTGC11

Lims ID: IC PCB 4

Client ID:

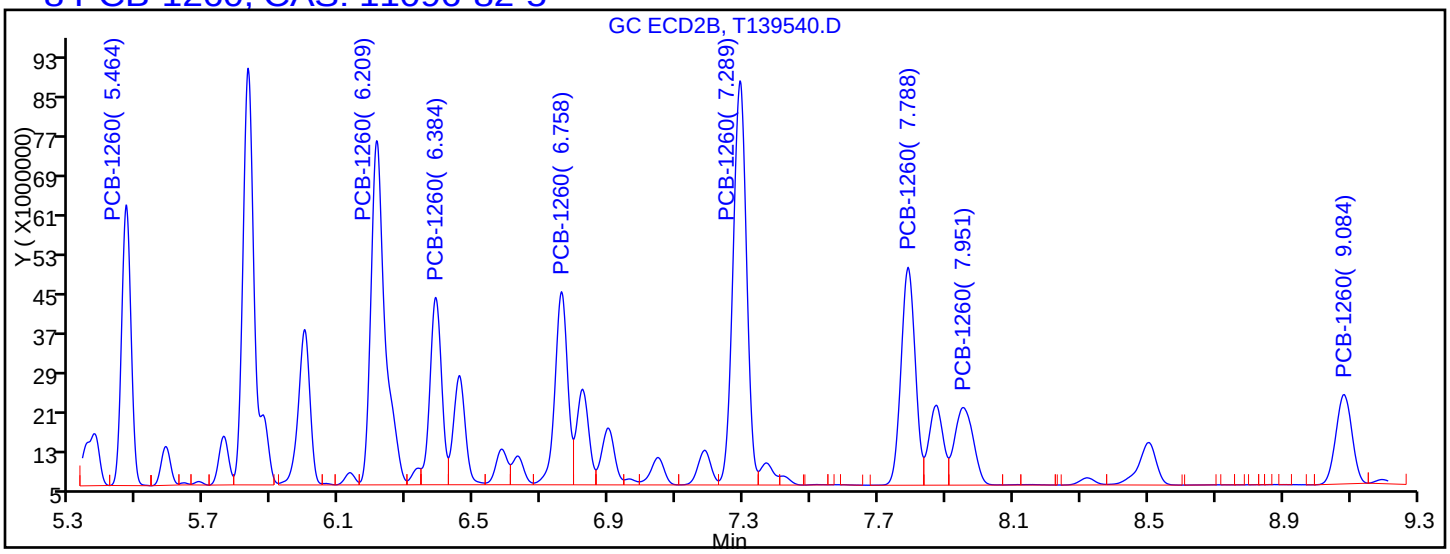
Operator ID: ALS Bottle#: 10 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

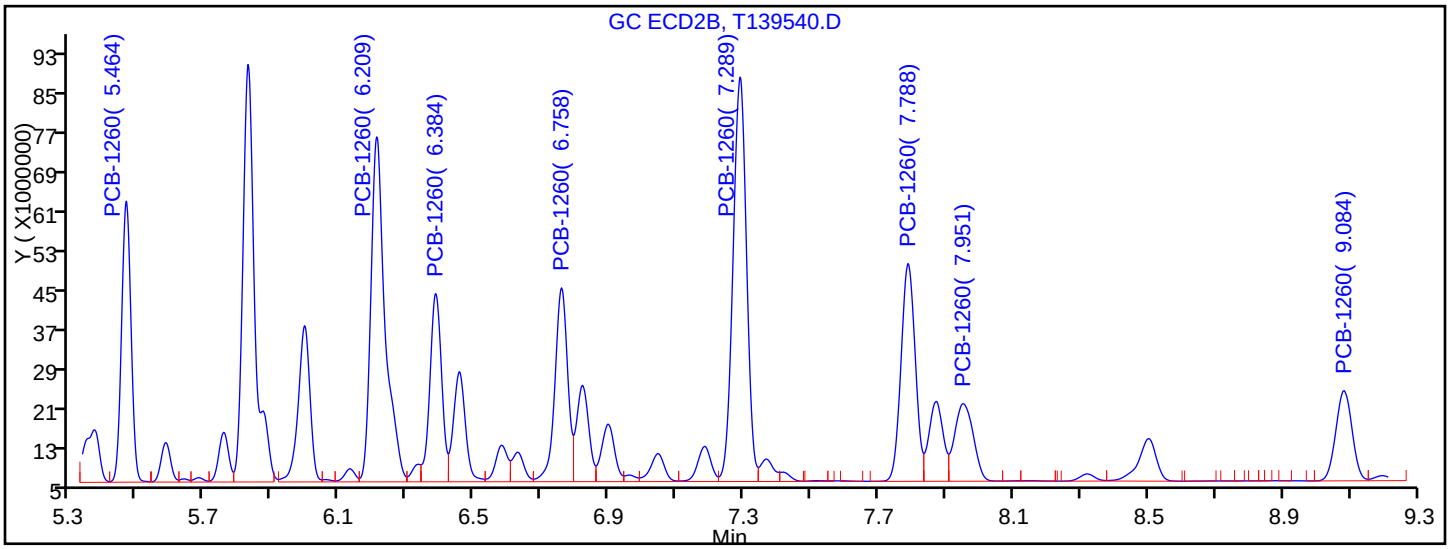
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.464	Response = 112005454
6.209	Response = 206975932
6.384	Response = 92803545
6.758	Response = 103995915
7.289	Response = 231046737
7.788	Response = 131101968
7.951	Response = 61560319
9.084	Response = 60691238



Manual Integration Results

5.464	Response = 112669732	M
6.209	Response = 208513259	M
6.384	Response = 93758515	M
6.758	Response = 105142657	M
7.289	Response = 231651540	M
7.788	Response = 131101968	

Manual Integration/User Assign Peak Report

TestAmerica Edison

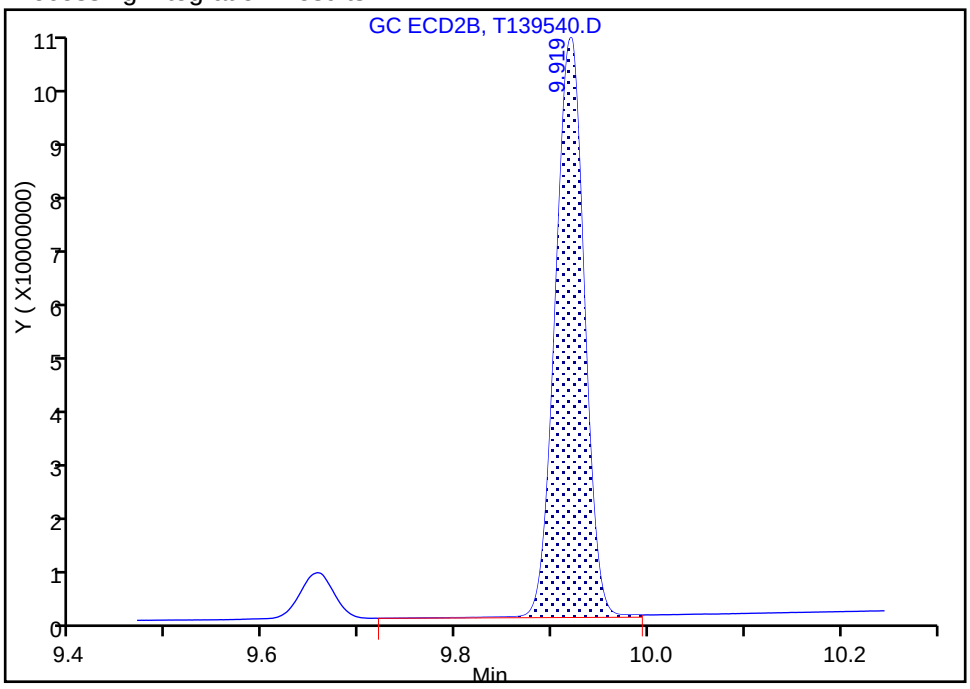
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139540.D				
Injection Date:	18-Jan-2018 13:35:39	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 4				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

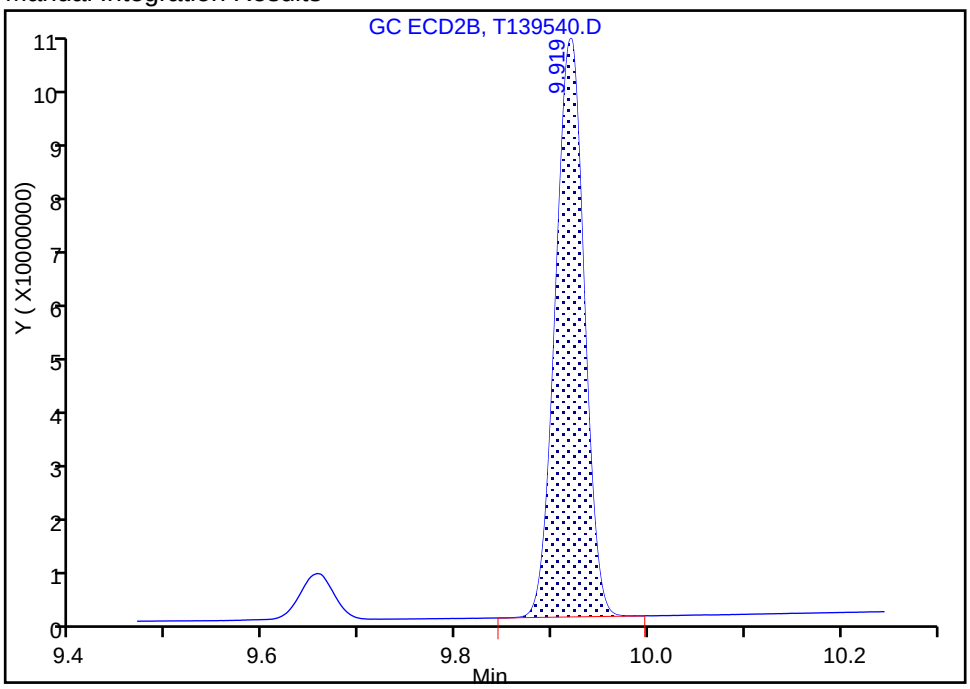
Processing Integration Results

RT: 9.92
Area: 215283295
Amount: 142.6996
Amount Units: ug/l



Manual Integration Results

RT: 9.92
Area: 212601392
Amount: 156.7399
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 13:02:38

Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Jan-2018 14:19:31 ALS Bottle#: 13 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:50 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 14:03:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.663	-0.003	21098667	20.0	20.0	
2	1.393	1.395	-0.002	36970944	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.646	2.648	-0.002	209803584	200.0	224.6	
2	2.068	2.069	-0.001	341074466	200.0	204.8	
						RPD = 9.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	3.273	3.275	-0.002	40022112	2500.0	2561.0	
1	3.791	3.792	-0.001	77317231	2500.0	2614.7	
1	4.368	4.369	-0.001	173799663	2500.0	2528.3	
1	4.538	4.541	-0.003	70133464	2500.0	2614.5	
1	4.668	4.668	0.000	46211180	2500.0	2577.6	
1	5.135	5.138	-0.003	52179882	2500.0	2486.6	
1	5.288	5.291	-0.003	61465788	2500.0	2552.0	
1	5.681	5.683	-0.002	47938461	2500.0	2601.6	
		Average of Peak Amounts =				2567.0	
2	2.459	2.461	-0.002	72527994	2500.0	2342.2	
2	2.848	2.849	-0.001	142611525	2500.0	2357.2	M
2	3.072	3.073	-0.001	97109585	2500.0	2433.5	M
2	3.373	3.374	-0.001	317683070	2500.0	2425.8	M
2	3.527	3.527	0.000	128090103	2500.0	2437.5	M
2	3.597	3.598	-0.001	77955875	2500.0	2445.3	M
2	4.006	4.007	-0.001	128870953	2500.0	2360.0	M
2	4.455	4.458	-0.003	69404936	2500.0	2430.2	M
		Average of Peak Amounts =				2403.9	
						RPD = 6.56	
8 PCB-1260							M
1	6.709	6.711	-0.002	48560087	2500.0	2636.0	
1	6.974	6.977	-0.003	113519650	2500.0	2642.9	
1	7.355	7.357	-0.002	133743593	2500.0	2602.5	
1	8.218	8.219	-0.001	91434163	2500.0	2604.4	
1	8.831	8.833	-0.002	97365000	2500.0	2625.8	
1	9.418	9.418	0.000	247705606	2500.0	2685.2	M
1	9.978	9.983	-0.005	166783976	2500.0	2673.9	M
1	10.621	10.628	-0.007	62675906	2500.0	2632.4	
		Average of Peak Amounts =				2637.9	
2	5.463	5.465	-0.002	184726455	2500.0	2337.3	M
2	6.206	6.208	-0.002	348003742	2500.0	2416.7	M
2	6.383	6.384	-0.001	157141817	2500.0	2253.7	M
2	6.757	6.758	-0.001	180498408	2500.0	2364.1	M
2	7.285	7.288	-0.003	400398390	2500.0	2438.9	M
2	7.787	7.788	-0.001	224733474	2500.0	2446.9	
2	7.952	7.953	-0.001	105254710	2500.0	2439.6	
2	9.082	9.085	-0.003	106352125	2500.0	2460.4	M
		Average of Peak Amounts =				2394.7	
						RPD = 9.67	
$ 11 DCB Decachlorobiphenyl							M
1	11.134	11.149	-0.015	193938232	200.0	226.1	
2	9.917	9.919	-0.002	298244638	200.0	207.5	M
						RPD = 8.58	
S 12 Polychlorinated biphenyls, Total							
1						5204.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

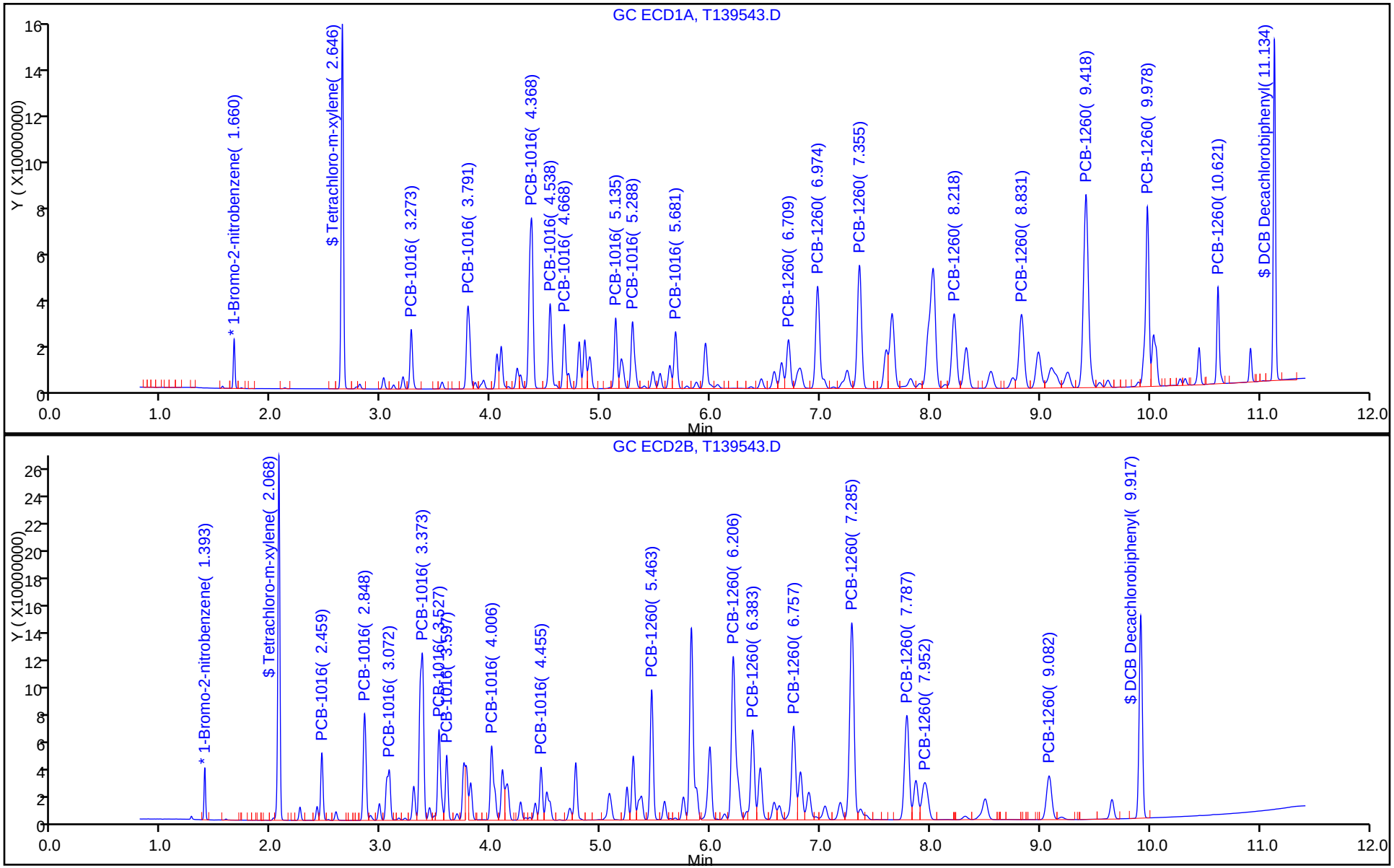
SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 18-Jan-2018 15:58:53 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D

Injection Date:	18-Jan-2018 14:19:31	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC PCB 5			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

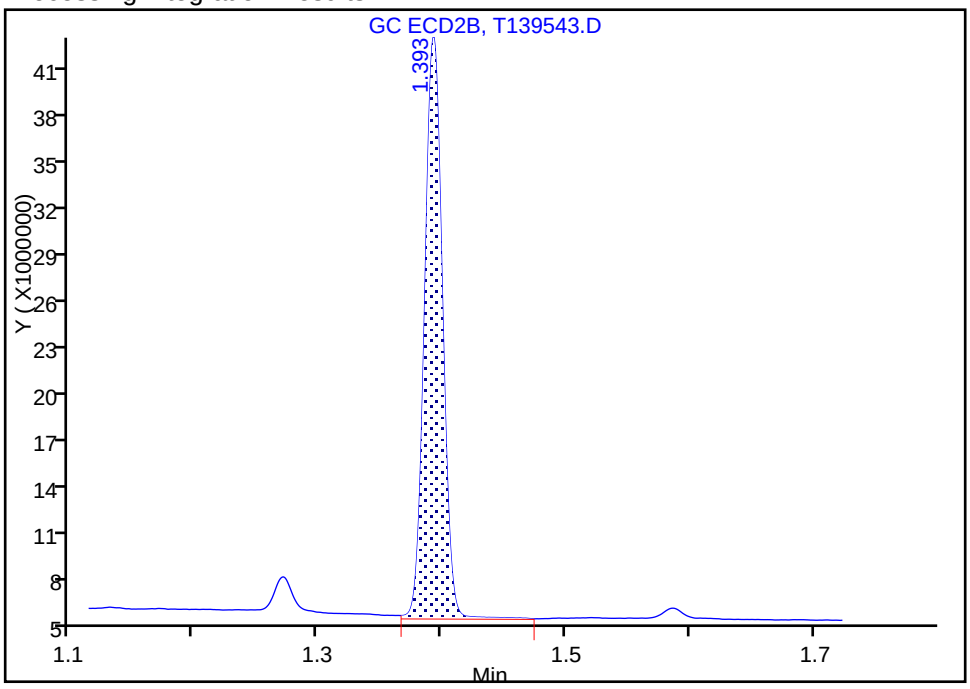
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D				
Injection Date:	18-Jan-2018 14:19:31	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 5				
Client ID:					
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

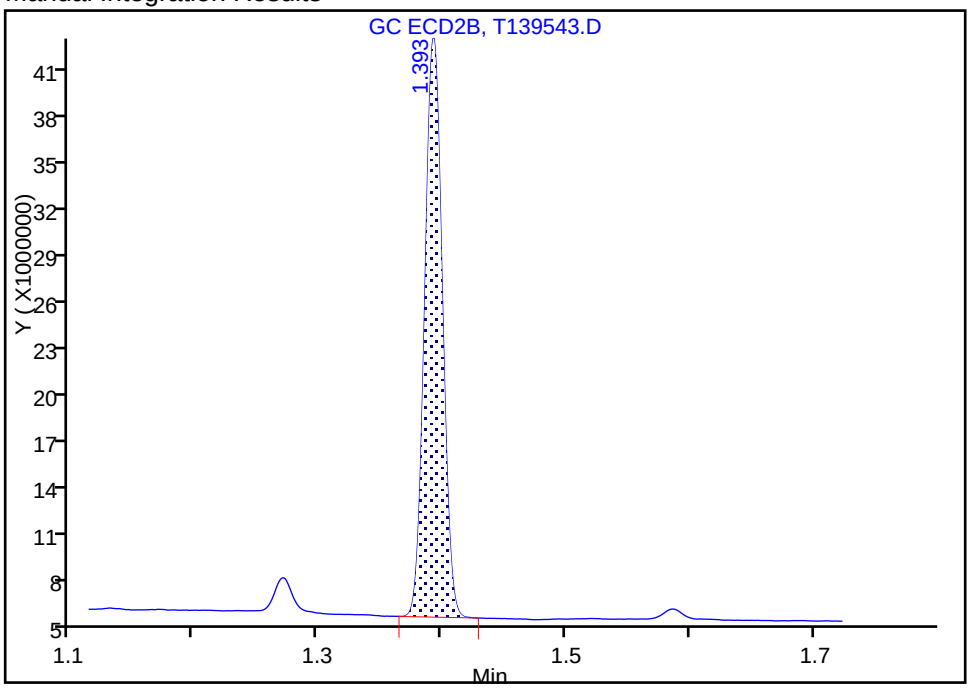
Processing Integration Results

RT: 1.39
Area: 37882398
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 36970944
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 14:02:45

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:58:53 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D

Injection Date: 18-Jan-2018 14:19:31 Instrument ID: CPESTGC11

Lims ID: IC PCB 5

Client ID:

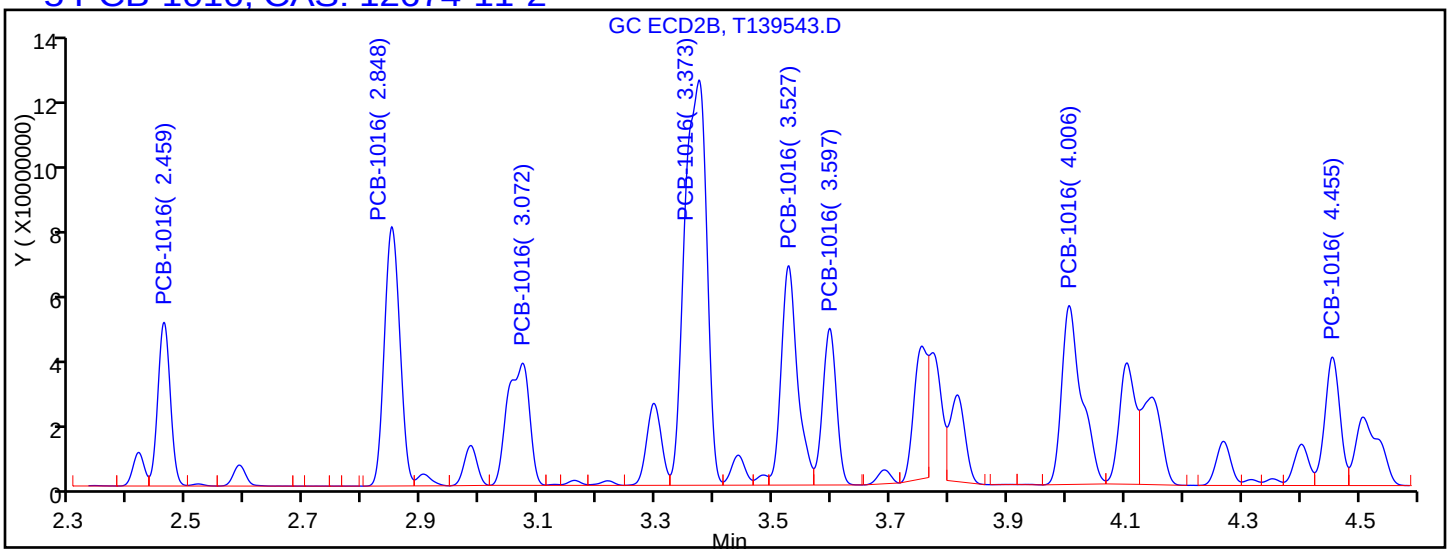
Operator ID: ALS Bottle#: 13 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

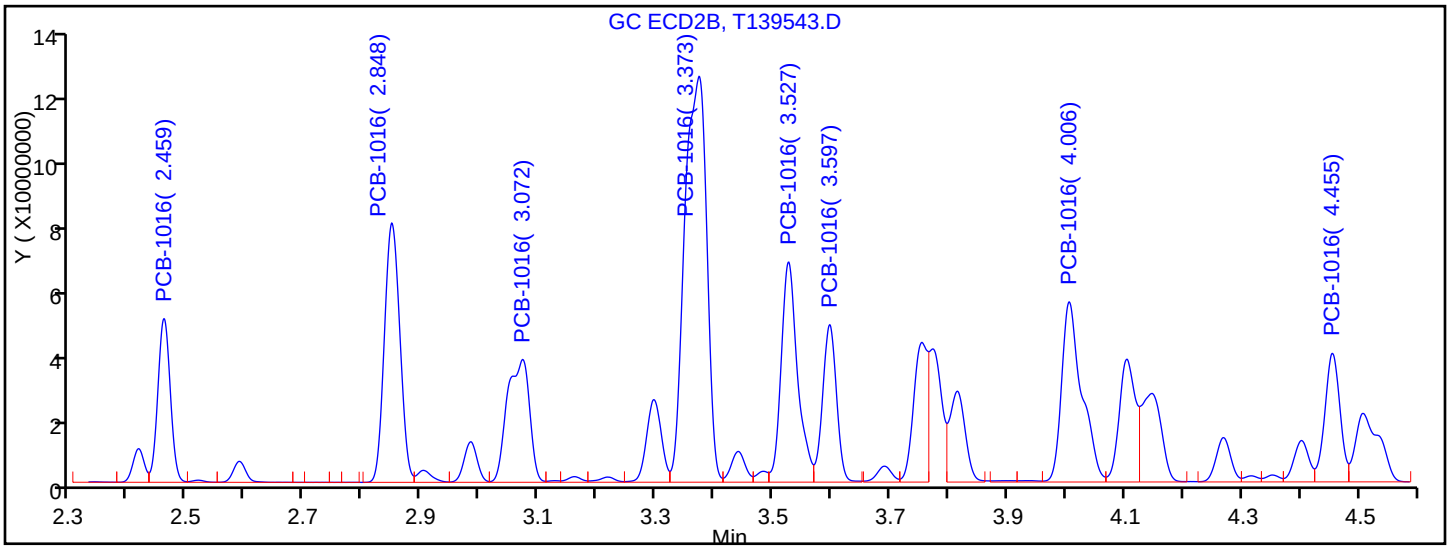
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.459	Response = 72527994
2.848	Response = 142489620
3.072	Response = 95938411
3.373	Response = 316574019
3.527	Response = 126968575
3.597	Response = 76651030
4.006	Response = 126221264
4.455	Response = 69301994



Manual Integration Results

2.459	Response = 72527994	
2.848	Response = 142611525	M
3.072	Response = 97109585	M
3.373	Response = 317683070	M
3.527	Response = 128090103	M
3.597	Response = 77955875	M

Report Date: 18-Jan-2018 15:58:53 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D

Injection Date: 18-Jan-2018 14:19:31 Instrument ID: CPESTGC11

Lims ID: IC PCB 5

Client ID:

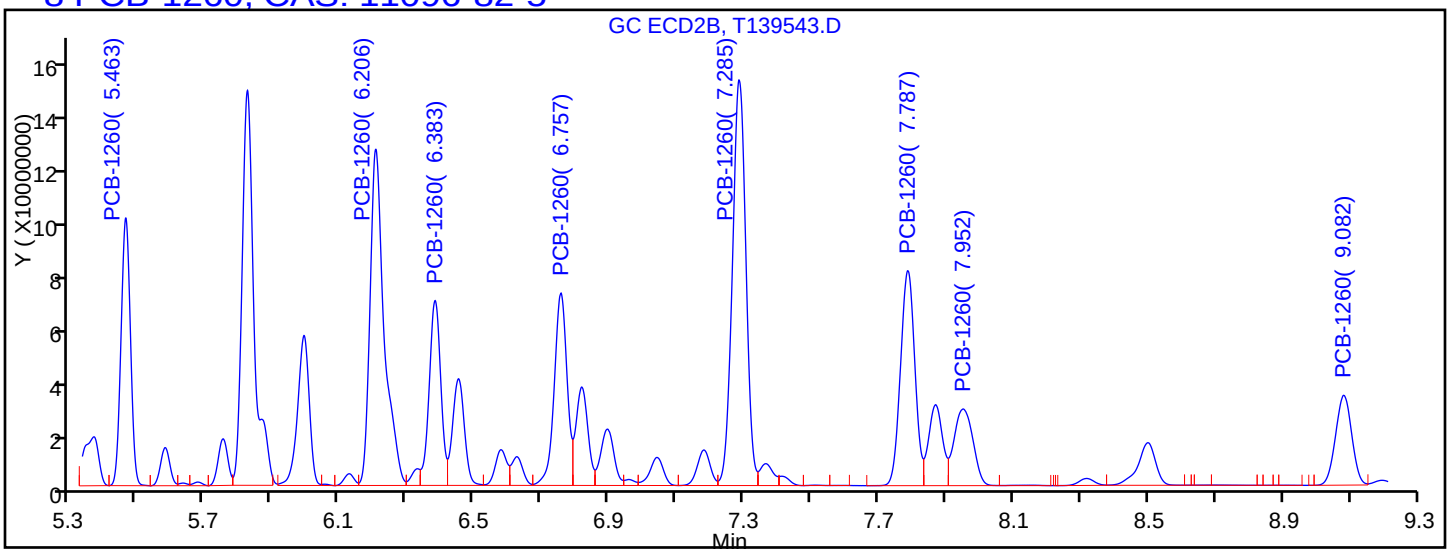
Operator ID: ALS Bottle#: 13 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

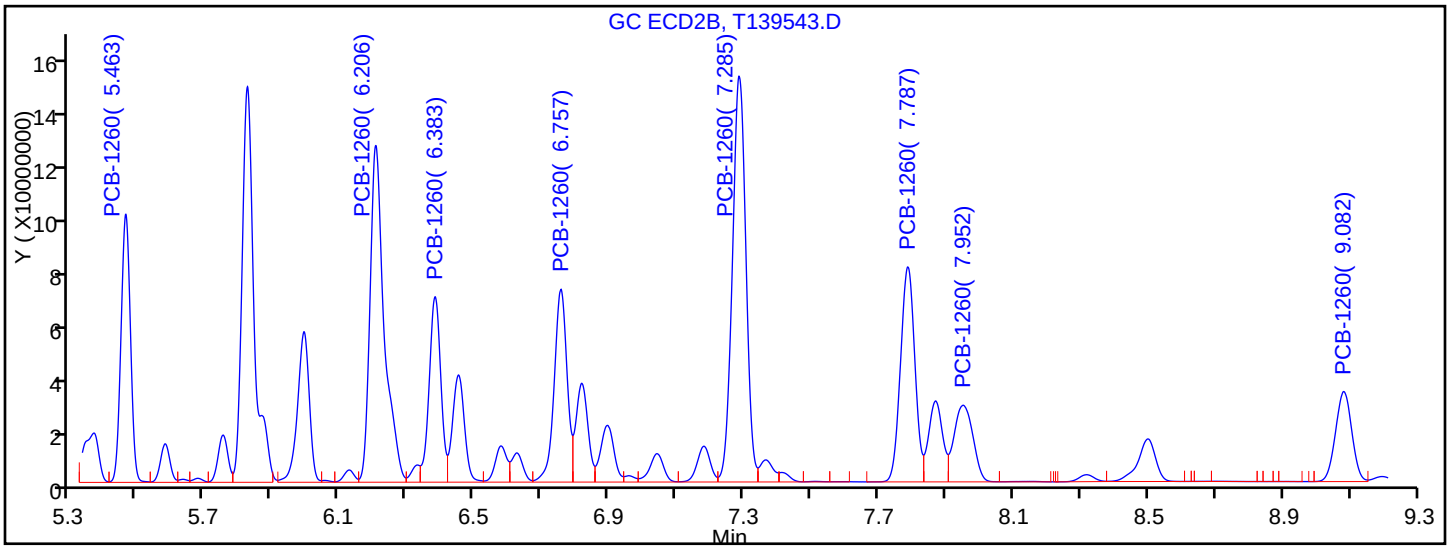
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.463	Response = 183548651
6.206	Response = 346482786
6.383	Response = 156225002
6.757	Response = 179365883
7.285	Response = 399898966
7.787	Response = 224733474
7.952	Response = 105254710
9.082	Response = 105687853



Manual Integration Results

5.463	Response = 184726455	M
6.206	Response = 348003742	M
6.383	Response = 157141817	M
6.757	Response = 180498408	M
7.285	Response = 400398390	M
7.787	Response = 224733474	

Manual Integration/User Assign Peak Report

TestAmerica Edison

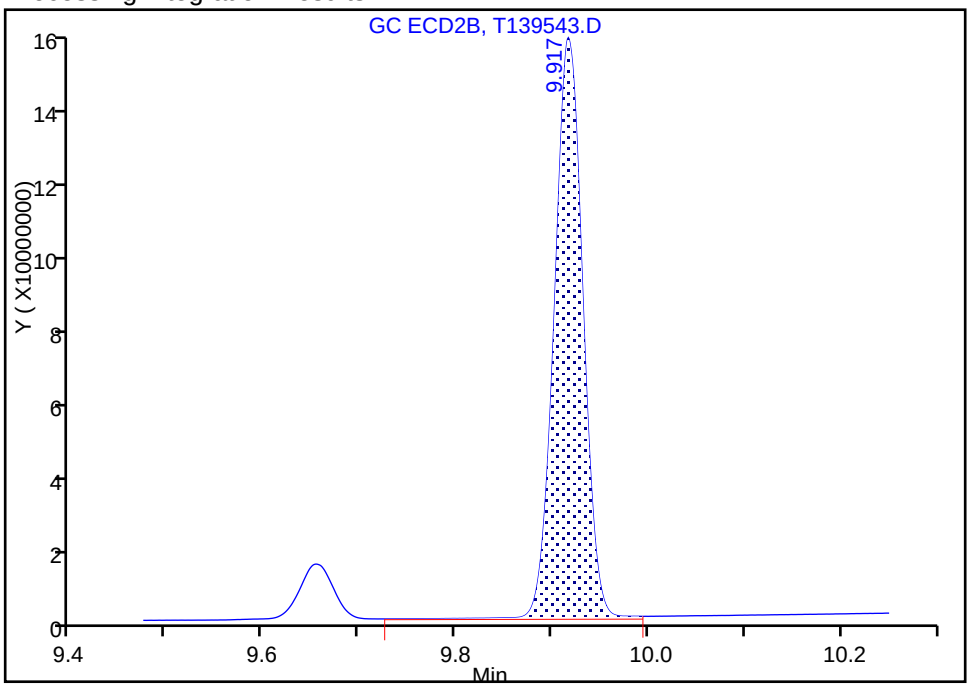
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139543.D				
Injection Date:	18-Jan-2018 14:19:31	Instrument ID:	CPESTGC11		
Lims ID:	IC PCB 5				
Client ID:					
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

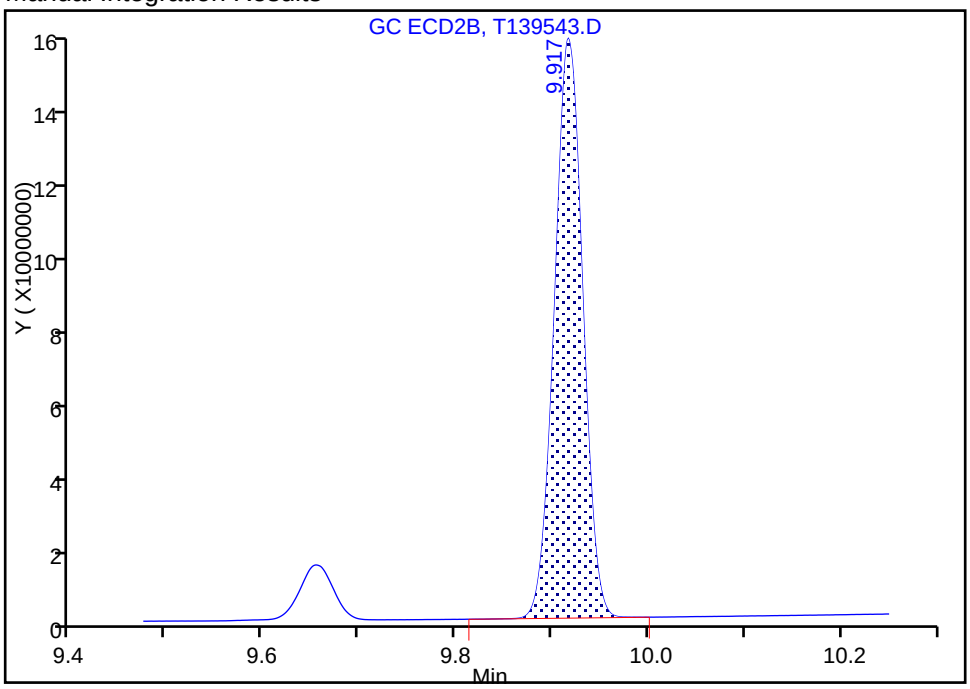
Processing Integration Results

RT: 9.92
Area: 304642586
Amount: 211.0345
Amount Units: ug/l



Manual Integration Results

RT: 9.92
Area: 298244638
Amount: 207.5222
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 14:03:06

Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 14:48 Calibration End Date: 01/18/2018 14:48 Calibration ID: 66141

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/8	T139545.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0061					Ave		0.0061						20.0			0.9900
PCB-1221 Peak 2	0.0088					Ave		0.0088						20.0			0.9900
PCB-1221 Peak 3	0.0057					Ave		0.0057						20.0			0.9900
PCB-1221 Peak 4	0.0216					Ave		0.0216						20.0			0.9900
PCB-1221 Peak 5	0.0025					Ave		0.0025						20.0			0.9900
PCB-1221 Peak 6	0.0051					Ave		0.0051						20.0			0.9900
PCB-1221 Peak 7	0.0021					Ave		0.0021						20.0			0.9900
PCB-1221 Peak 8	0.0011					Ave		0.0011						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 14:48 Calibration End Date: 01/18/2018 14:48 Calibration ID: 66141

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/8	T139545.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	6846944					1000				
PCB-1221 Peak 2	BNB	Ave	9781151					1000				
PCB-1221 Peak 3	BNB	Ave	6374180					1000				
PCB-1221 Peak 4	BNB	Ave	24106468					1000				
PCB-1221 Peak 5	BNB	Ave	2771451					1000				
PCB-1221 Peak 6	BNB	Ave	5691237					1000				
PCB-1221 Peak 7	BNB	Ave	2328170					1000				
PCB-1221 Peak 8	BNB	Ave	1215865					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 14:48:47 ALS Bottle#: 15 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-008
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:01 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:42:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.662	0.000	22321459	20.0	20.0	
2	1.394	1.394	0.000	33793997	20.0	20.0	M
						RPD = 0.00	
1 PCB-1221							M
1	2.123	2.123	0.000	6846944	1000.0	1000.0	
1	3.023	3.023	0.000	9781151	1000.0	1000.0	
1	3.199	3.199	0.000	6374180	1000.0	1000.0	
1	3.273	3.273	0.000	24106468	1000.0	1000.0	
1	3.856	3.856	0.000	2771451	1000.0	1000.0	
1	4.370	4.370	0.000	5691237	1000.0	1000.0	
1	4.541	4.541	0.000	2328170	1000.0	1000.0	
1	4.668	4.668	0.000	1215865	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	1.587	1.587	0.000	11839199	1000.0	1000.0	M
2	2.261	2.261	0.000	17458203	1000.0	1000.0	
2	2.417	2.417	0.000	10977784	1000.0	1000.0	
2	2.459	2.459	0.000	43297162	1000.0	1000.0	
2	2.851	2.851	0.000	4362059	1000.0	1000.0	
2	2.986	2.986	0.000	6133585	1000.0	1000.0	
2	3.375	3.375	0.000	8121231	1000.0	1000.0	
2	3.527	3.527	0.000	3448649	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

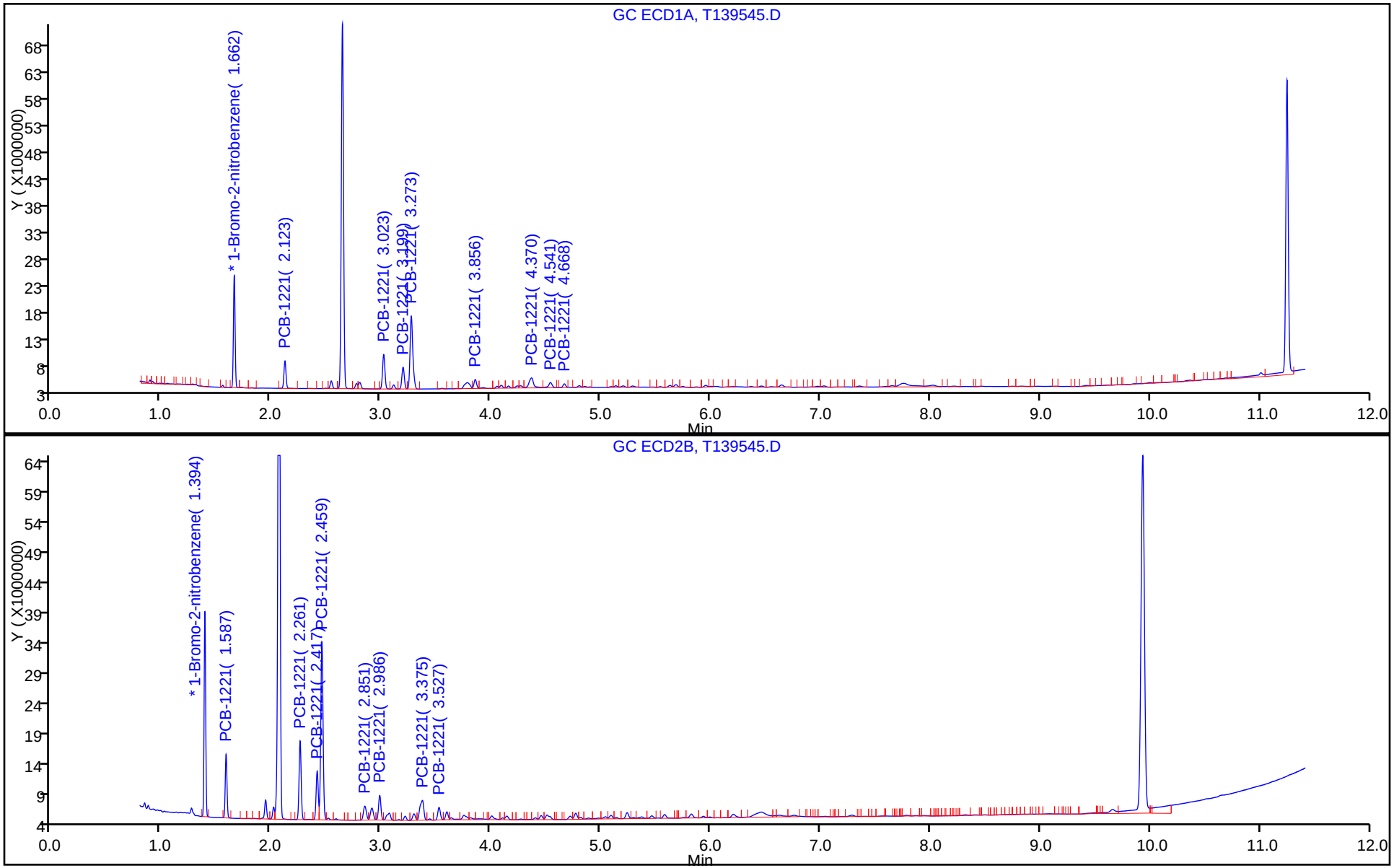
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 18-Jan-2018 15:59:03 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D

Injection Date:	18-Jan-2018 14:48:47	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 14:48 Calibration End Date: 01/18/2018 14:48 Calibration ID: 66142

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/8	T139545.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0070					Ave		0.0070						20.0			0.9900
PCB-1221 Peak 2	0.0103					Ave		0.0103						20.0			0.9900
PCB-1221 Peak 3	0.0065					Ave		0.0065						20.0			0.9900
PCB-1221 Peak 4	0.0256					Ave		0.0256						20.0			0.9900
PCB-1221 Peak 5	0.0026					Ave		0.0026						20.0			0.9900
PCB-1221 Peak 6	0.0036					Ave		0.0036						20.0			0.9900
PCB-1221 Peak 7	0.0048					Ave		0.0048						20.0			0.9900
PCB-1221 Peak 8	0.0020					Ave		0.0020						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 14:48 Calibration End Date: 01/18/2018 14:48 Calibration ID: 66142

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/8	T139545.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	11839199					1000				
PCB-1221 Peak 2	BNB	Ave	17458203					1000				
PCB-1221 Peak 3	BNB	Ave	10977784					1000				
PCB-1221 Peak 4	BNB	Ave	43297162					1000				
PCB-1221 Peak 5	BNB	Ave	4362059					1000				
PCB-1221 Peak 6	BNB	Ave	6133585					1000				
PCB-1221 Peak 7	BNB	Ave	8121231					1000				
PCB-1221 Peak 8	BNB	Ave	3448649					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 14:48:47 ALS Bottle#: 15 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-008
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:01 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:42:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.662	0.000	22321459	20.0	20.0	
2	1.394	1.394	0.000	33793997	20.0	20.0	M
						RPD = 0.00	
1 PCB-1221							M
1	2.123	2.123	0.000	6846944	1000.0	1000.0	
1	3.023	3.023	0.000	9781151	1000.0	1000.0	
1	3.199	3.199	0.000	6374180	1000.0	1000.0	
1	3.273	3.273	0.000	24106468	1000.0	1000.0	
1	3.856	3.856	0.000	2771451	1000.0	1000.0	
1	4.370	4.370	0.000	5691237	1000.0	1000.0	
1	4.541	4.541	0.000	2328170	1000.0	1000.0	
1	4.668	4.668	0.000	1215865	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	1.587	1.587	0.000	11839199	1000.0	1000.0	M
2	2.261	2.261	0.000	17458203	1000.0	1000.0	
2	2.417	2.417	0.000	10977784	1000.0	1000.0	
2	2.459	2.459	0.000	43297162	1000.0	1000.0	
2	2.851	2.851	0.000	4362059	1000.0	1000.0	
2	2.986	2.986	0.000	6133585	1000.0	1000.0	
2	3.375	3.375	0.000	8121231	1000.0	1000.0	
2	3.527	3.527	0.000	3448649	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

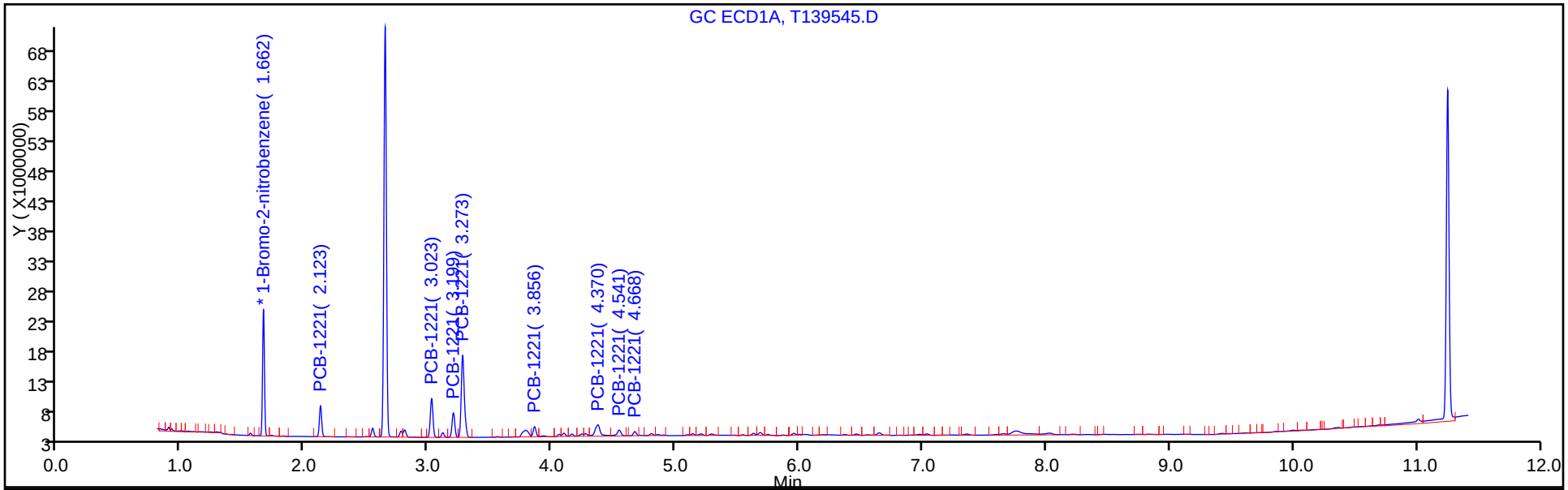
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

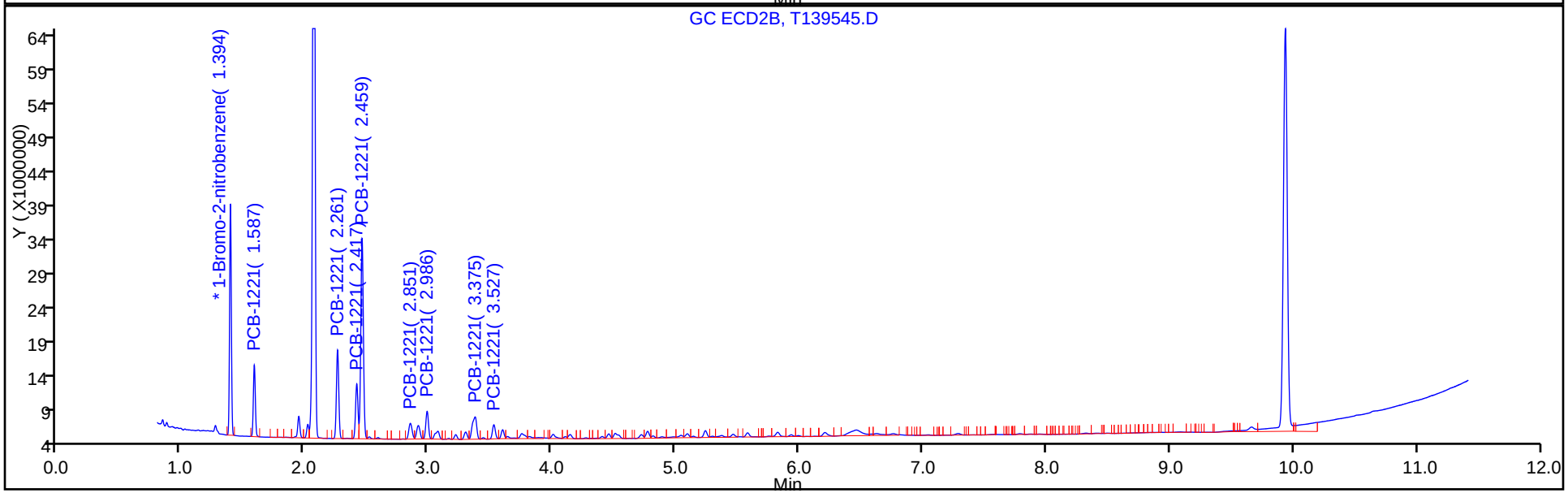
Report Date: 18-Jan-2018 15:59:03 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D

Injection Date:	18-Jan-2018 14:48:47	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

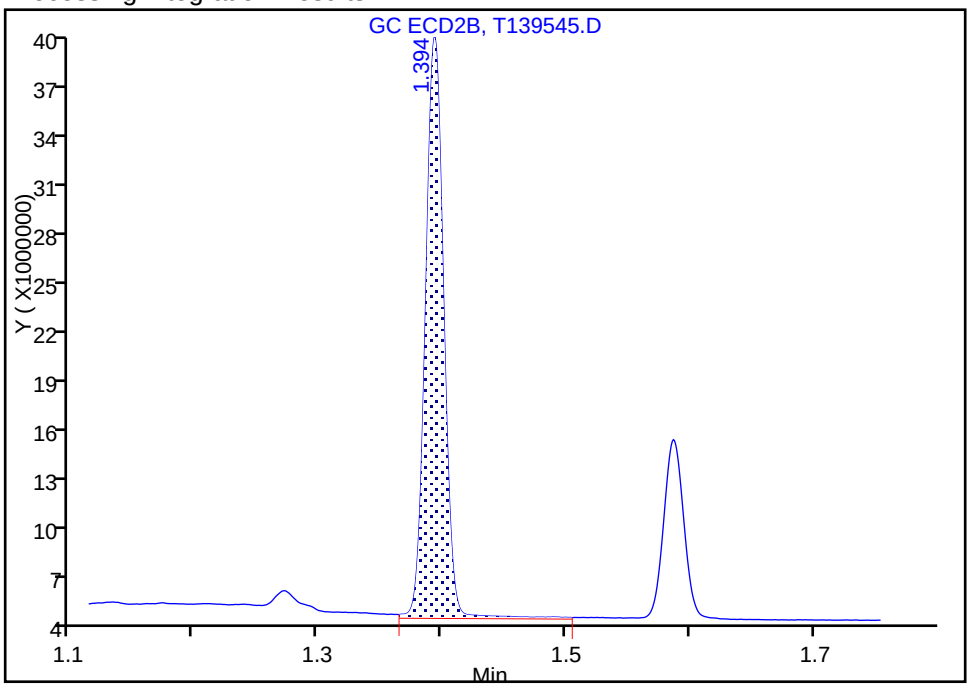
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D				
Injection Date:	18-Jan-2018 14:48:47	Instrument ID:	CPESTGC11		
Lims ID:	IC 1221				
Client ID:					
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

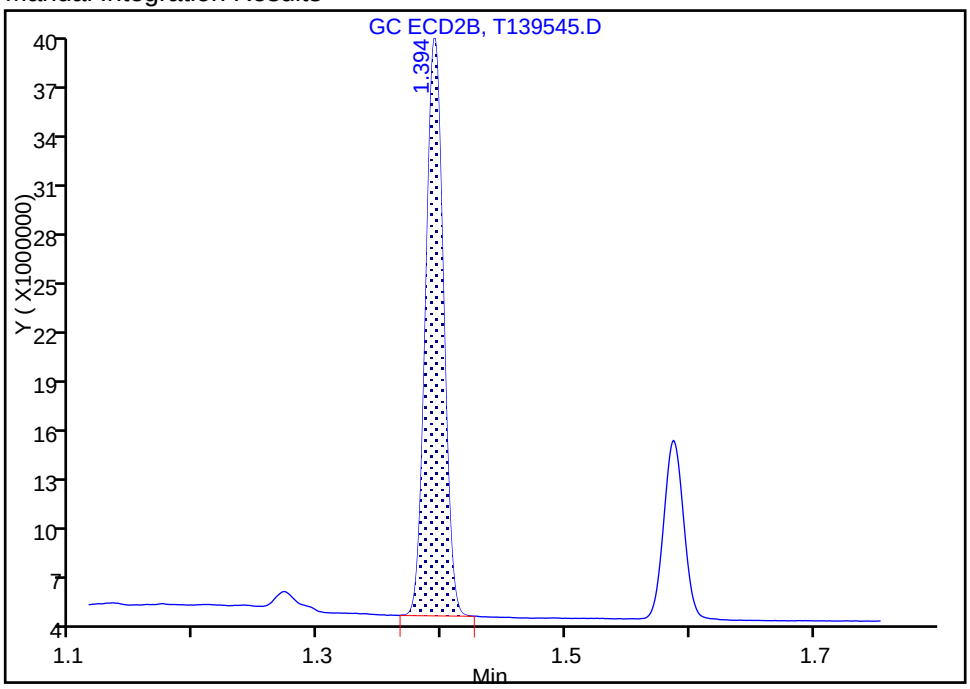
Processing Integration Results

RT: 1.39
Area: 35105512
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 33793997
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:43:08

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:59:03 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139545.D

Injection Date: 18-Jan-2018 14:48:47 Instrument ID: CPESTGC11

Lims ID: IC 1221

Client ID:

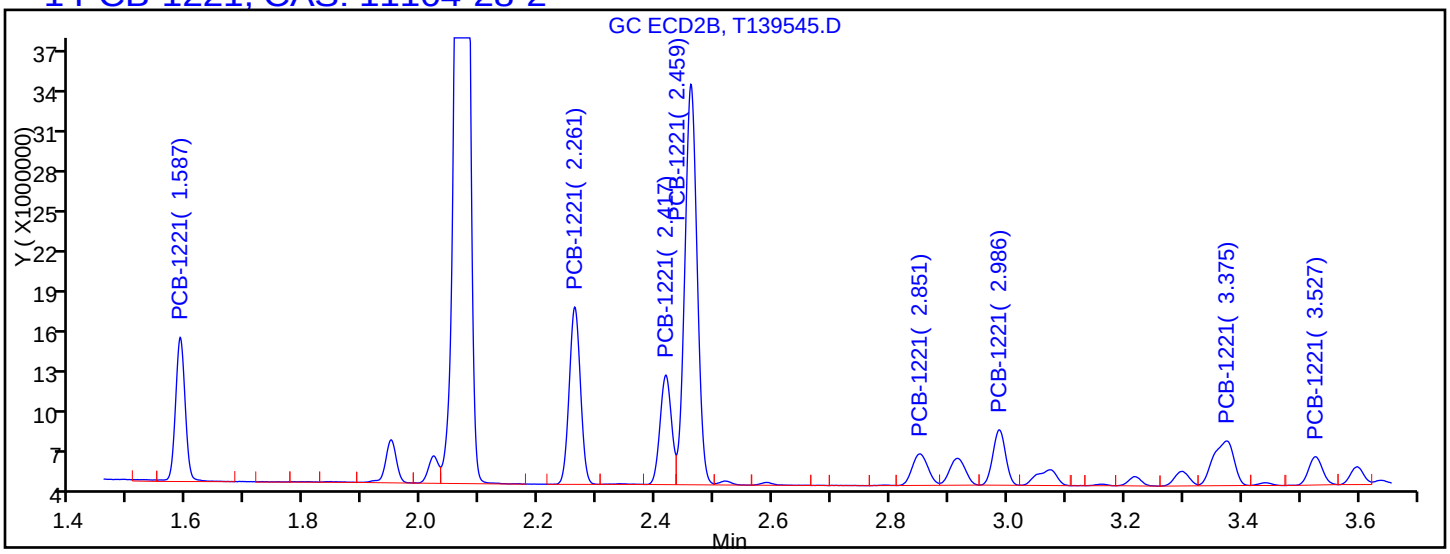
Operator ID: ALS Bottle#: 15 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

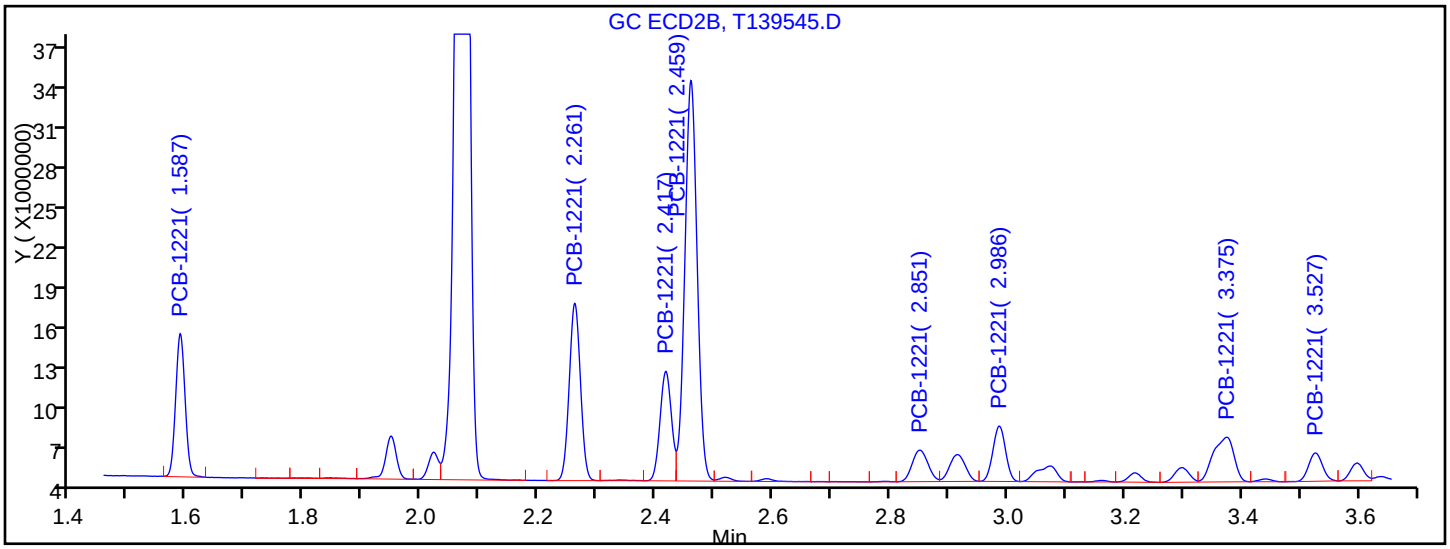
Column: Detector GC ECD2B

1 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.587	Response = 12257967
2.261	Response = 17458203
2.417	Response = 10977784
2.459	Response = 43297162
2.851	Response = 4362059
2.986	Response = 6133585
3.375	Response = 8121231
3.527	Response = 3448649



Manual Integration Results

1.587	Response = 11839199	M
2.261	Response = 17458203	
2.417	Response = 10977784	
2.459	Response = 43297162	
2.851	Response = 4362059	
2.986	Response = 6133585	

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:03 Calibration End Date: 01/18/2018 15:03 Calibration ID: 66147

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/9	T139546.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0181					Ave		0.0181						20.0			0.9900
PCB-1232 Peak 2	0.0138					Ave		0.0138						20.0			0.9900
PCB-1232 Peak 3	0.0294					Ave		0.0294						20.0			0.9900
PCB-1232 Peak 4	0.0124					Ave		0.0124						20.0			0.9900
PCB-1232 Peak 5	0.0093					Ave		0.0093						20.0			0.9900
PCB-1232 Peak 6	0.0083					Ave		0.0083						20.0			0.9900
PCB-1232 Peak 7	0.0082					Ave		0.0082						20.0			0.9900
PCB-1232 Peak 8	0.0093					Ave		0.0093						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:03 Calibration End Date: 01/18/2018 15:03 Calibration ID: 66147

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/9	T139546.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	20183182					1000				
PCB-1232 Peak 2	BNB	Ave	15414974					1000				
PCB-1232 Peak 3	BNB	Ave	32866130					1000				
PCB-1232 Peak 4	BNB	Ave	13789628					1000				
PCB-1232 Peak 5	BNB	Ave	10410066					1000				
PCB-1232 Peak 6	BNB	Ave	9246418					1000				
PCB-1232 Peak 7	BNB	Ave	9125697					1000				
PCB-1232 Peak 8	BNB	Ave	10387187					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:03:25 ALS Bottle#: 16 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-009
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:04 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:44:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	22321167	20.0	20.0	
2	1.392	1.392	0.000	34716032	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	3.274	3.274	0.000	20183182	1000.0	1000.0	
1	3.791	3.791	0.000	15414974	1000.0	1000.0	M
1	4.369	4.369	0.000	32866130	1000.0	1000.0	M
1	4.540	4.540	0.000	13789628	1000.0	1000.0	M
1	4.668	4.668	0.000	10410066	1000.0	1000.0	M
1	5.137	5.137	0.000	9246418	1000.0	1000.0	M
1	5.630	5.630	0.000	9125697	1000.0	1000.0	M
1	5.688	5.688	0.000	10387187	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	2.459	2.459	0.000	36825498	1000.0	1000.0	
2	2.848	2.848	0.000	28020356	1000.0	1000.0	M
2	3.072	3.072	0.000	18606876	1000.0	1000.0	M
2	3.374	3.374	0.000	59716220	1000.0	1000.0	M
2	3.526	3.526	0.000	23753619	1000.0	1000.0	M
2	4.007	4.007	0.000	22358254	1000.0	1000.0	M
2	4.509	4.509	0.000	33100887	1000.0	1000.0	M
2	4.769	4.769	0.000	12791188	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

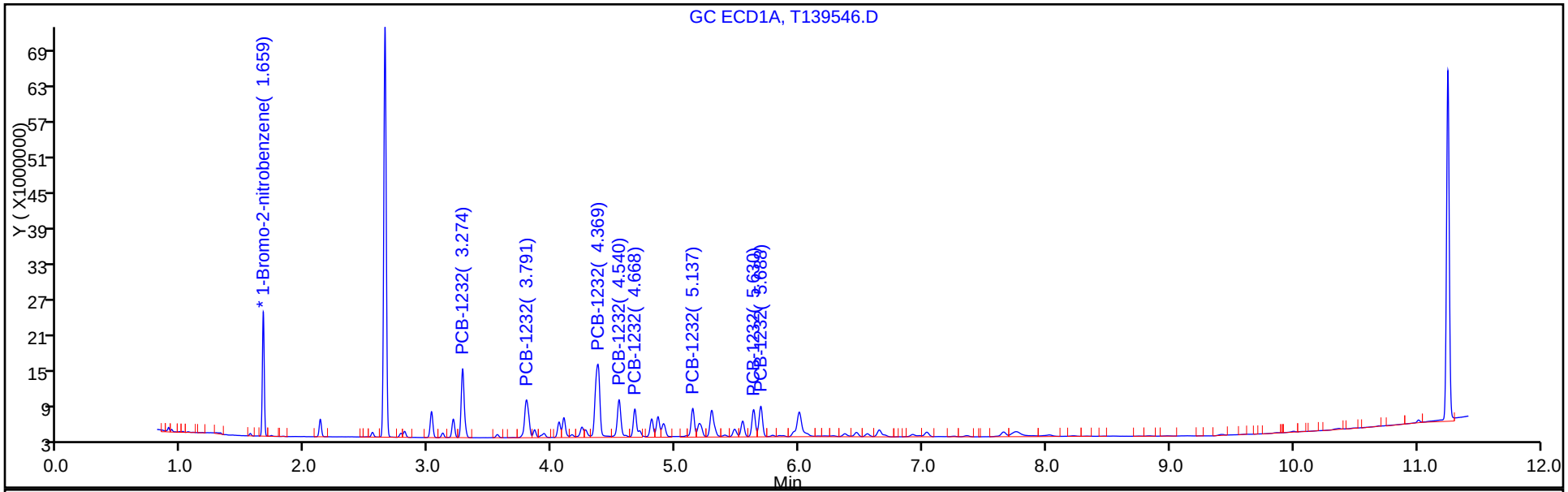
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

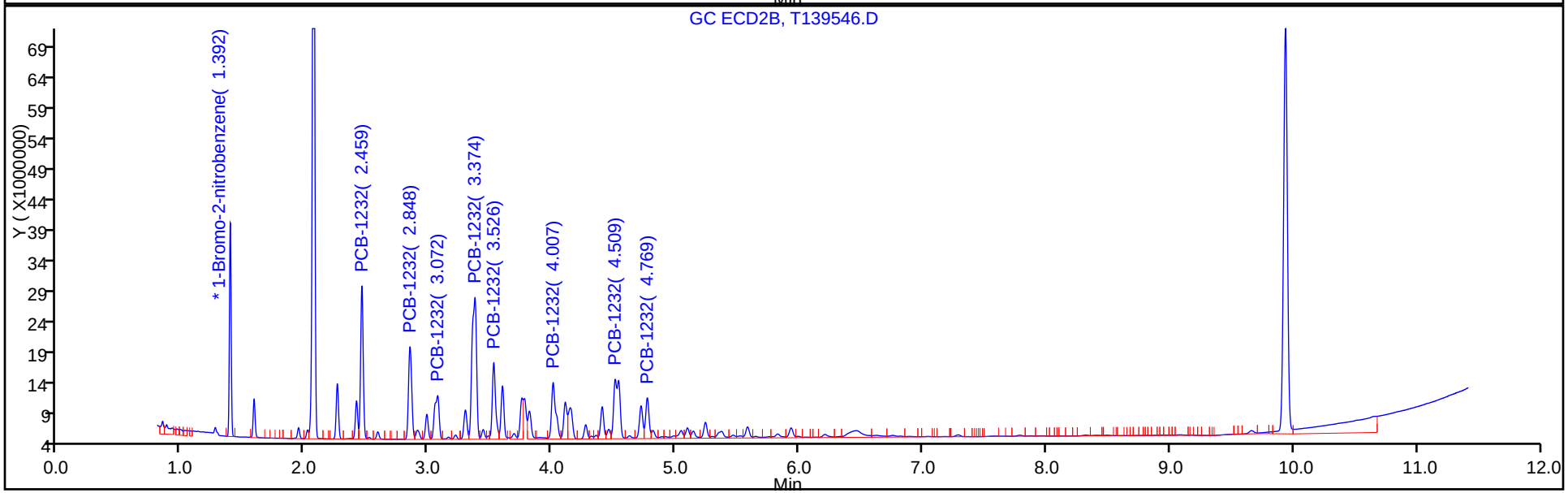
Report Date: 18-Jan-2018 15:59:06 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D

Injection Date:	18-Jan-2018 15:03:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 18-Jan-2018 15:59:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D

Injection Date: 18-Jan-2018 15:03:25 Instrument ID: CPESTGC11

Lims ID: IC 1232

Client ID:

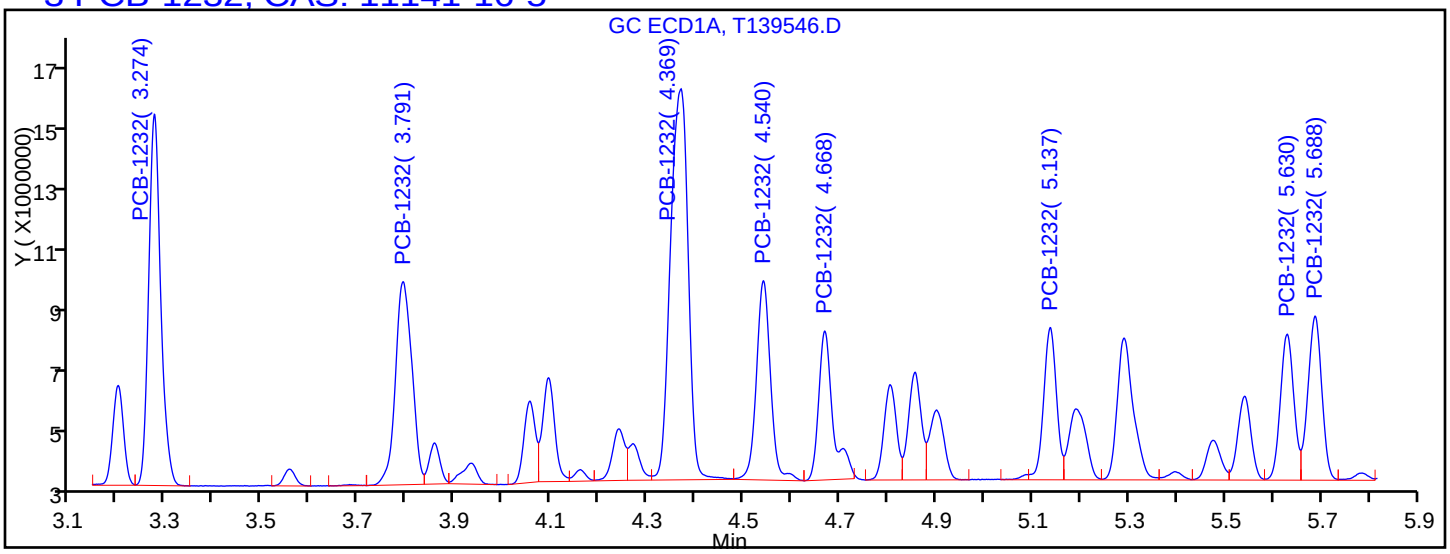
Operator ID: ALS Bottle#: 16 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

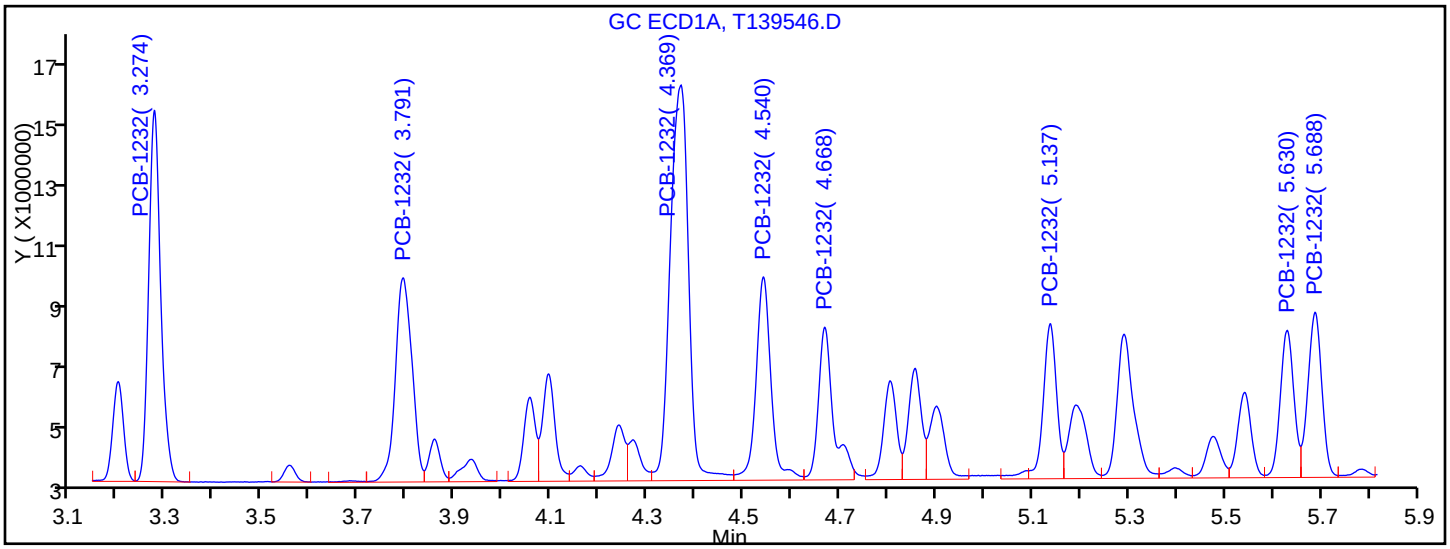
Column: Detector GC ECD1A

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

3.274	Response = 20183182
3.791	Response = 15186914
4.369	Response = 31360948
4.540	Response = 12710631
4.668	Response = 9631263
5.137	Response = 8856026
5.630	Response = 8939411
5.688	Response = 10233805



Manual Integration Results

3.274	Response = 20183182	
3.791	Response = 15414974	M
4.369	Response = 32866130	M
4.540	Response = 13789628	M
4.668	Response = 10410066	M
5.137	Response = 9246418	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:03 Calibration End Date: 01/18/2018 15:03 Calibration ID: 66148

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/9	T139546.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0212					Ave		0.0212						20.0			0.9900
PCB-1232 Peak 2	0.0161					Ave		0.0161						20.0			0.9900
PCB-1232 Peak 3	0.0107					Ave		0.0107						20.0			0.9900
PCB-1232 Peak 4	0.0344					Ave		0.0344						20.0			0.9900
PCB-1232 Peak 5	0.0137					Ave		0.0137						20.0			0.9900
PCB-1232 Peak 6	0.0129					Ave		0.0129						20.0			0.9900
PCB-1232 Peak 7	0.0191					Ave		0.0191						20.0			0.9900
PCB-1232 Peak 8	0.0074					Ave		0.0074						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:03 Calibration End Date: 01/18/2018 15:03 Calibration ID: 66148

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/9	T139546.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	36825498					1000				
PCB-1232 Peak 2	BNB	Ave	28020356					1000				
PCB-1232 Peak 3	BNB	Ave	18606876					1000				
PCB-1232 Peak 4	BNB	Ave	59716220					1000				
PCB-1232 Peak 5	BNB	Ave	23753619					1000				
PCB-1232 Peak 6	BNB	Ave	22358254					1000				
PCB-1232 Peak 7	BNB	Ave	33100887					1000				
PCB-1232 Peak 8	BNB	Ave	12791188					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:03:25 ALS Bottle#: 16 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-009
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:04 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:44:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.659	1.659	0.000	22321167	20.0	20.0	
2	1.392	1.392	0.000	34716032	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	3.274	3.274	0.000	20183182	1000.0	1000.0	
1	3.791	3.791	0.000	15414974	1000.0	1000.0	M
1	4.369	4.369	0.000	32866130	1000.0	1000.0	M
1	4.540	4.540	0.000	13789628	1000.0	1000.0	M
1	4.668	4.668	0.000	10410066	1000.0	1000.0	M
1	5.137	5.137	0.000	9246418	1000.0	1000.0	M
1	5.630	5.630	0.000	9125697	1000.0	1000.0	M
1	5.688	5.688	0.000	10387187	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	2.459	2.459	0.000	36825498	1000.0	1000.0	
2	2.848	2.848	0.000	28020356	1000.0	1000.0	M
2	3.072	3.072	0.000	18606876	1000.0	1000.0	M
2	3.374	3.374	0.000	59716220	1000.0	1000.0	M
2	3.526	3.526	0.000	23753619	1000.0	1000.0	M
2	4.007	4.007	0.000	22358254	1000.0	1000.0	M
2	4.509	4.509	0.000	33100887	1000.0	1000.0	M
2	4.769	4.769	0.000	12791188	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

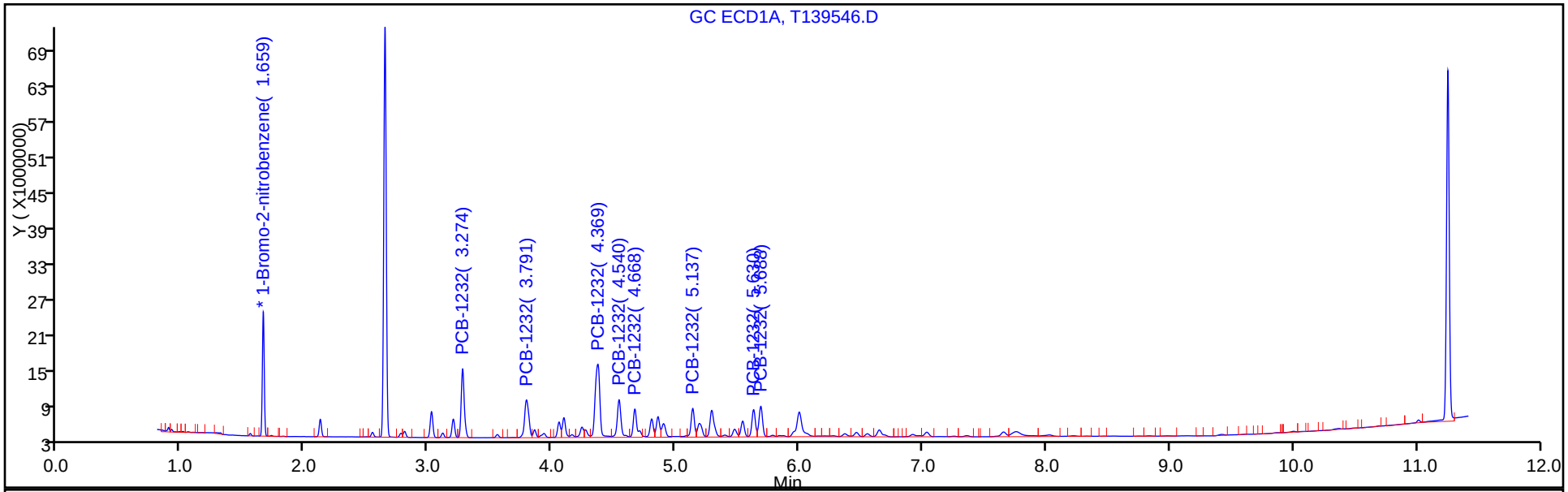
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

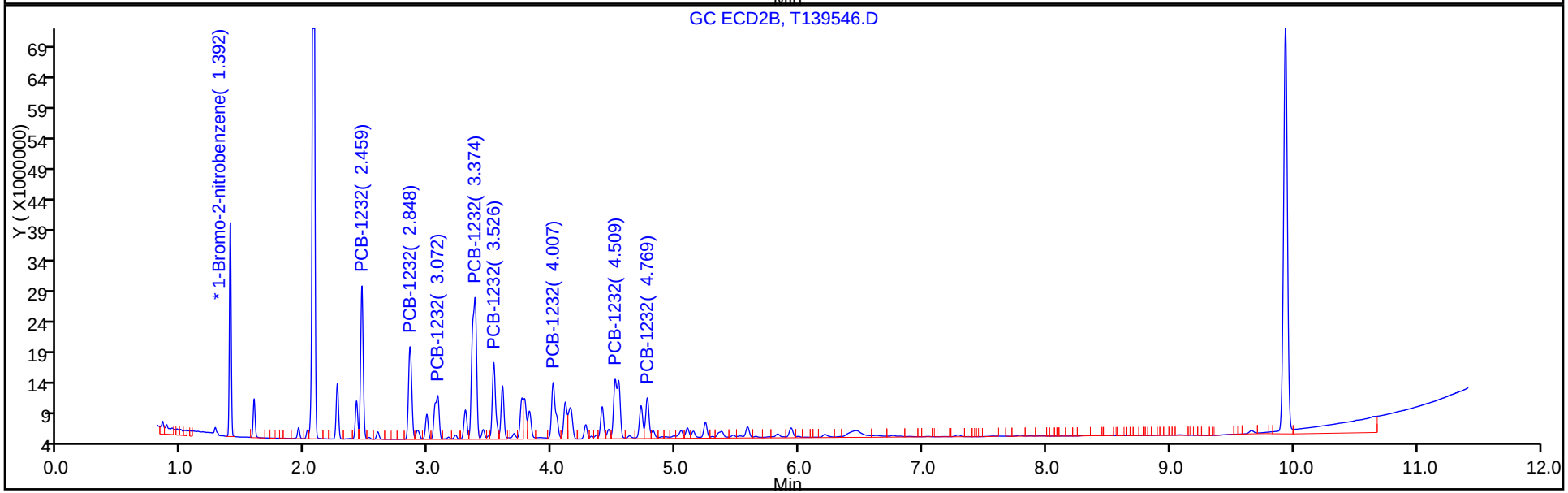
Report Date: 18-Jan-2018 15:59:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D

Injection Date:	18-Jan-2018 15:03:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





TestAmerica Edison

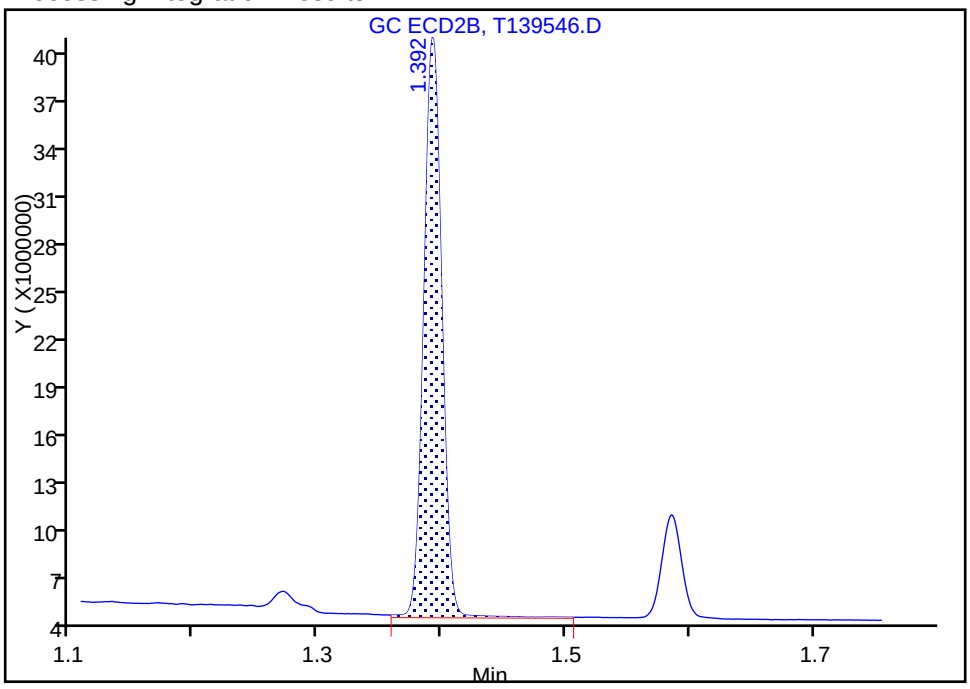
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D		
Injection Date:	18-Jan-2018 15:03:25	Instrument ID:	CPESTGC11
Lims ID:	IC 1232		
Client ID:			
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

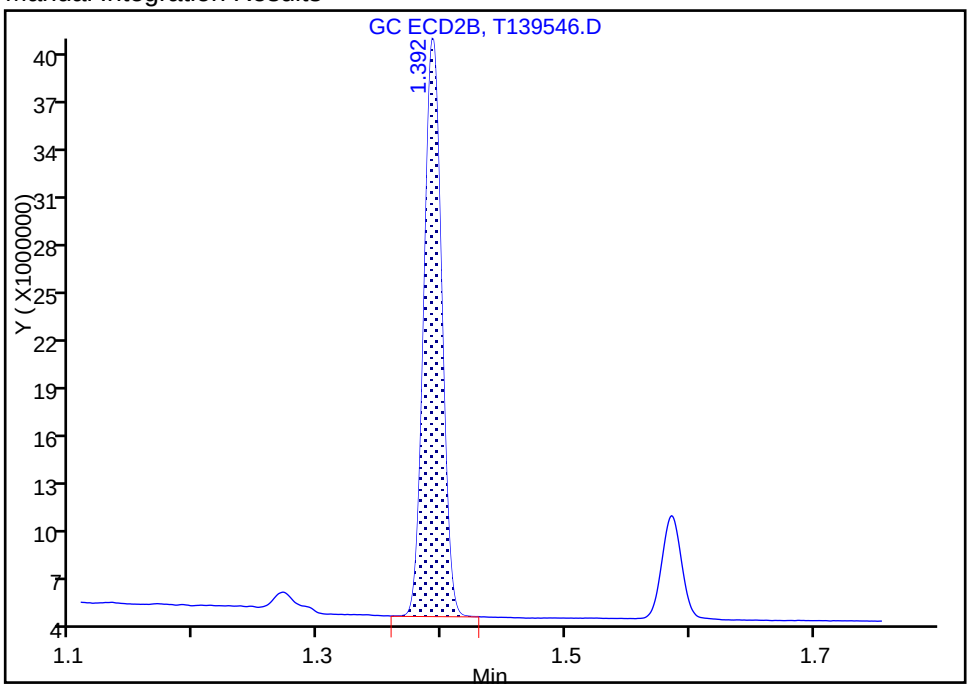
Processing Integration Results

RT: 1.39
Area: 35578755
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 34716032
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:48:11
Audit Action: Manually Integrated Audit Reason: Peak not integrated

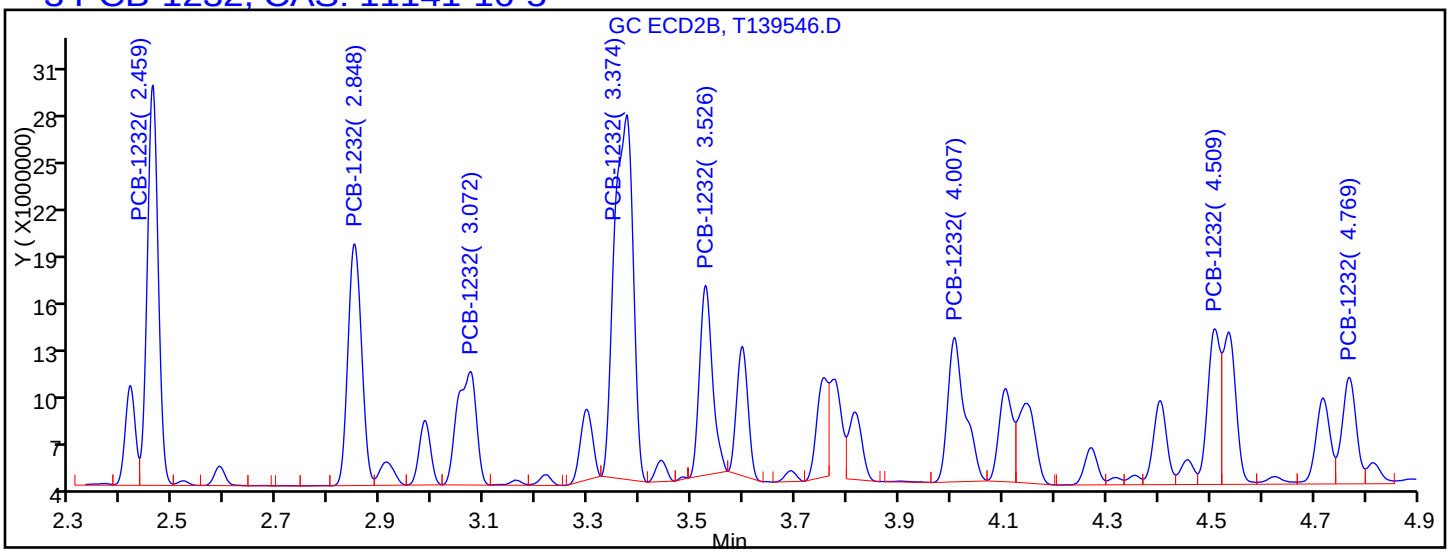
Report Date: 18-Jan-2018 15:59:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139546.D

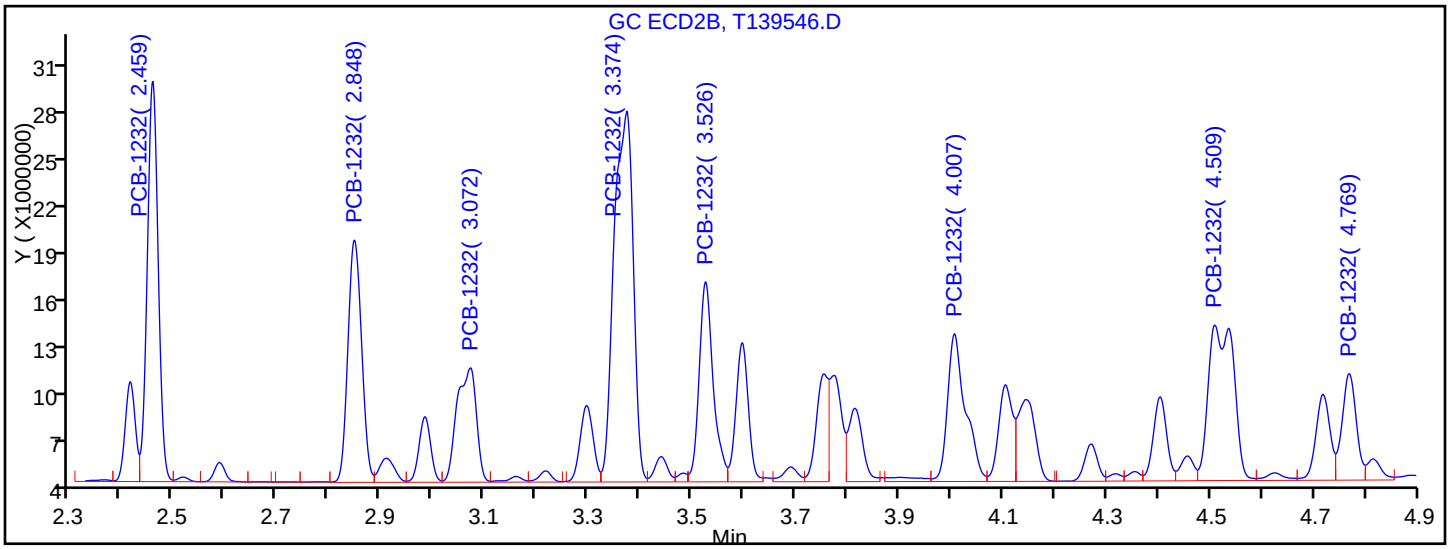
Injection Date:	18-Jan-2018 15:03:25	Instrument ID:	CPESTGC11
Lims ID:	IC 1232		
Client ID:			
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.459	Response = 36825498
2.848	Response = 27848555
3.072	Response = 18270243
3.374	Response = 57501364
3.526	Response = 20639072
4.007	Response = 20944257
4.509	Response = 16534203
4.769	Response = 12791188



Manual Integration Results

2.459	Response = 36825498	
2.848	Response = 28020356	M
3.072	Response = 18606876	M
3.374	Response = 59716220	M
3.526	Response = 23753619	M
4.007	Response = 22358254	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:18 Calibration End Date: 01/18/2018 15:18 Calibration ID: 66153

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/10	T139547.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0128					Ave		0.0128						20.0			0.9900
PCB-1242 Peak 2	0.0245					Ave		0.0245						20.0			0.9900
PCB-1242 Peak 3	0.0536					Ave		0.0536						20.0			0.9900
PCB-1242 Peak 4	0.0220					Ave		0.0220						20.0			0.9900
PCB-1242 Peak 5	0.0142					Ave		0.0142						20.0			0.9900
PCB-1242 Peak 6	0.0197					Ave		0.0197						20.0			0.9900
PCB-1242 Peak 7	0.0171					Ave		0.0171						20.0			0.9900
PCB-1242 Peak 8	0.0197					Ave		0.0197						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:18 Calibration End Date: 01/18/2018 15:18 Calibration ID: 66153

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/10	T139547.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	14183675					1000				
PCB-1242 Peak 2	BNB	Ave	27193938					1000				
PCB-1242 Peak 3	BNB	Ave	59541686					1000				
PCB-1242 Peak 4	BNB	Ave	24381050					1000				
PCB-1242 Peak 5	BNB	Ave	15738352					1000				
PCB-1242 Peak 6	BNB	Ave	21897946					1000				
PCB-1242 Peak 7	BNB	Ave	19027360					1000				
PCB-1242 Peak 8	BNB	Ave	21866224					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:18:01 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-010
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:08 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:46:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	22206189	20.0	20.0	
2	1.393	1.393	0.000	37553678	20.0	20.0	M
						RPD = 0.00	
4 PCB-1242							M
1	3.273	3.273	0.000	14183675	1000.0	1000.0	
1	3.790	3.790	0.000	27193938	1000.0	1000.0	
1	4.368	4.368	0.000	59541686	1000.0	1000.0	
1	4.540	4.540	0.000	24381050	1000.0	1000.0	
1	4.668	4.668	0.000	15738352	1000.0	1000.0	
1	5.290	5.290	0.000	21897946	1000.0	1000.0	
1	5.630	5.630	0.000	19027360	1000.0	1000.0	
1	5.688	5.688	0.000	21866224	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	2.459	2.459	0.000	25698461	1000.0	1000.0	
2	2.848	2.848	0.000	50274074	1000.0	1000.0	M
2	3.072	3.072	0.000	33387799	1000.0	1000.0	M
2	3.374	3.374	0.000	109680680	1000.0	1000.0	M
2	3.526	3.526	0.000	44298263	1000.0	1000.0	M
2	4.005	4.005	0.000	45773195	1000.0	1000.0	M
2	4.510	4.510	0.000	68954372	1000.0	1000.0	M
2	4.770	4.770	0.000	26710373	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

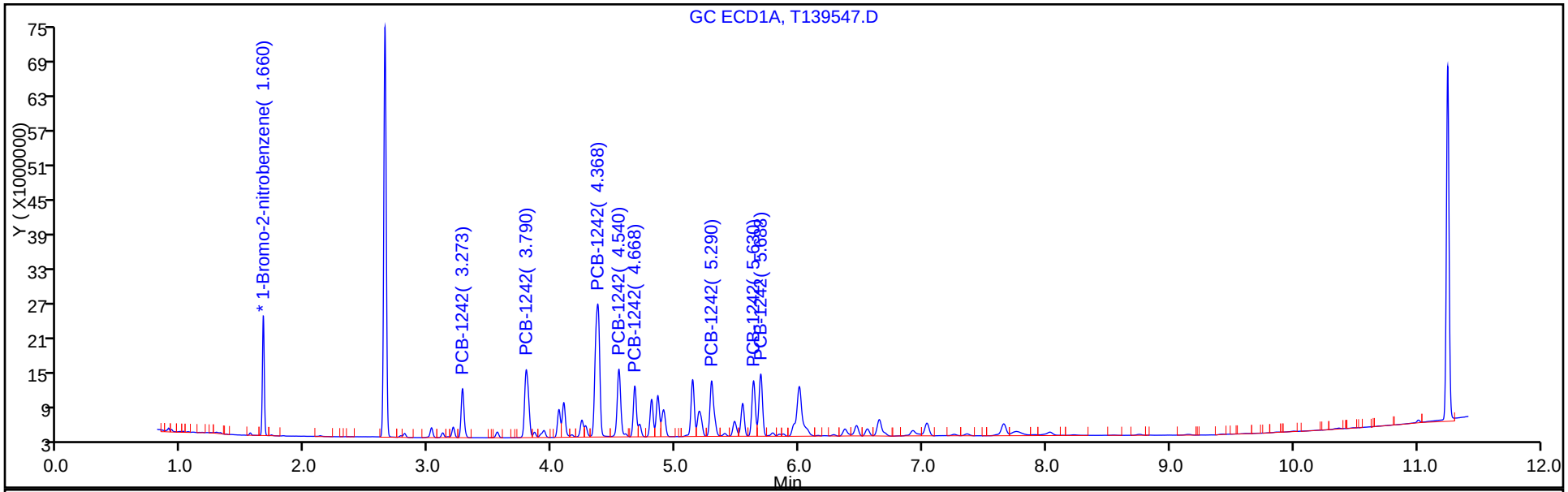
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

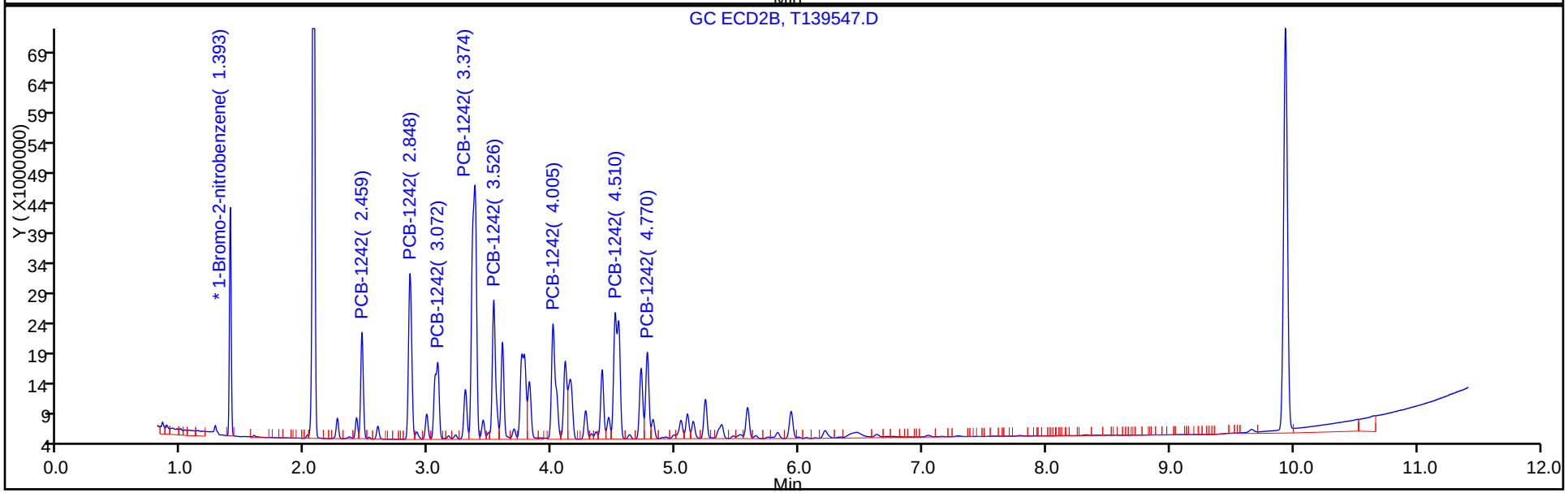
Report Date: 18-Jan-2018 15:59:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D

Injection Date:	18-Jan-2018 15:18:01	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:18 Calibration End Date: 01/18/2018 15:18 Calibration ID: 66154

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/10	T139547.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0137					Ave		0.0137						20.0			0.9900
PCB-1242 Peak 2	0.0268					Ave		0.0268						20.0			0.9900
PCB-1242 Peak 3	0.0178					Ave		0.0178						20.0			0.9900
PCB-1242 Peak 4	0.0584					Ave		0.0584						20.0			0.9900
PCB-1242 Peak 5	0.0236					Ave		0.0236						20.0			0.9900
PCB-1242 Peak 6	0.0244					Ave		0.0244						20.0			0.9900
PCB-1242 Peak 7	0.0367					Ave		0.0367						20.0			0.9900
PCB-1242 Peak 8	0.0142					Ave		0.0142						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:18 Calibration End Date: 01/18/2018 15:18 Calibration ID: 66154

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/10	T139547.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	25698461					1000				
PCB-1242 Peak 2	BNB	Ave	50274074					1000				
PCB-1242 Peak 3	BNB	Ave	33387799					1000				
PCB-1242 Peak 4	BNB	Ave	109680680					1000				
PCB-1242 Peak 5	BNB	Ave	44298263					1000				
PCB-1242 Peak 6	BNB	Ave	45773195					1000				
PCB-1242 Peak 7	BNB	Ave	68954372					1000				
PCB-1242 Peak 8	BNB	Ave	26710373					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:18:01 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-010
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:08 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:46:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	22206189	20.0	20.0	
2	1.393	1.393	0.000	37553678	20.0	20.0	M
						RPD = 0.00	
4 PCB-1242							M
1	3.273	3.273	0.000	14183675	1000.0	1000.0	
1	3.790	3.790	0.000	27193938	1000.0	1000.0	
1	4.368	4.368	0.000	59541686	1000.0	1000.0	
1	4.540	4.540	0.000	24381050	1000.0	1000.0	
1	4.668	4.668	0.000	15738352	1000.0	1000.0	
1	5.290	5.290	0.000	21897946	1000.0	1000.0	
1	5.630	5.630	0.000	19027360	1000.0	1000.0	
1	5.688	5.688	0.000	21866224	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	2.459	2.459	0.000	25698461	1000.0	1000.0	
2	2.848	2.848	0.000	50274074	1000.0	1000.0	M
2	3.072	3.072	0.000	33387799	1000.0	1000.0	M
2	3.374	3.374	0.000	109680680	1000.0	1000.0	M
2	3.526	3.526	0.000	44298263	1000.0	1000.0	M
2	4.005	4.005	0.000	45773195	1000.0	1000.0	M
2	4.510	4.510	0.000	68954372	1000.0	1000.0	M
2	4.770	4.770	0.000	26710373	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

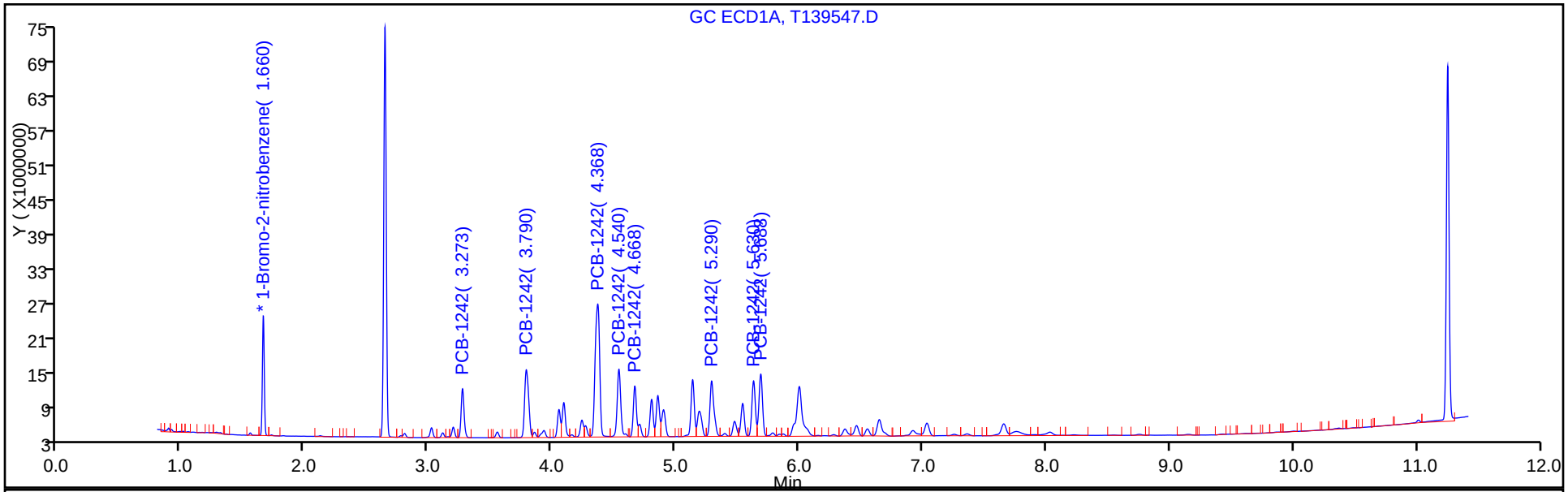
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

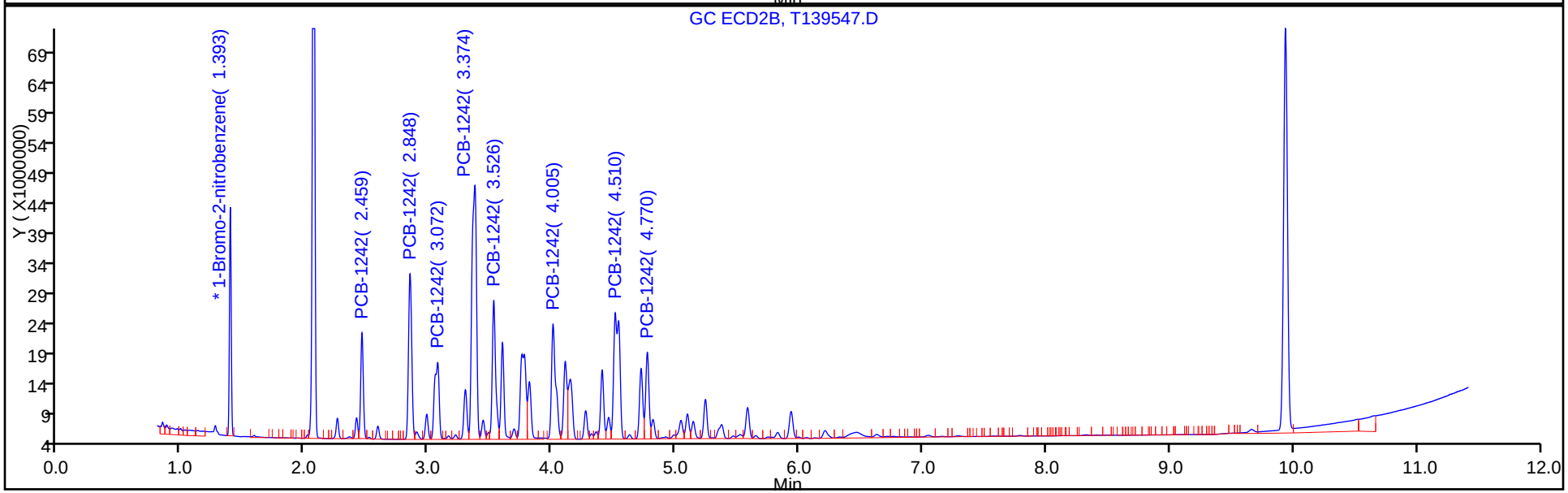
Report Date: 18-Jan-2018 15:59:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D

Injection Date:	18-Jan-2018 15:18:01	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

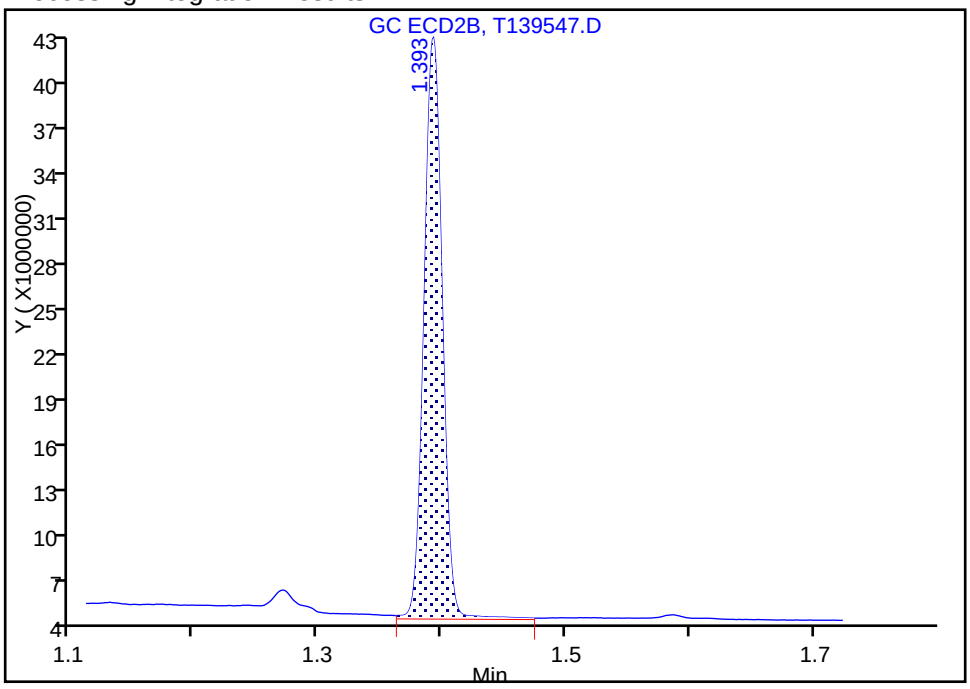
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D		
Injection Date:	18-Jan-2018 15:18:01	Instrument ID:	CPESTGC11
Lims ID:	IC 1242		
Client ID:			
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

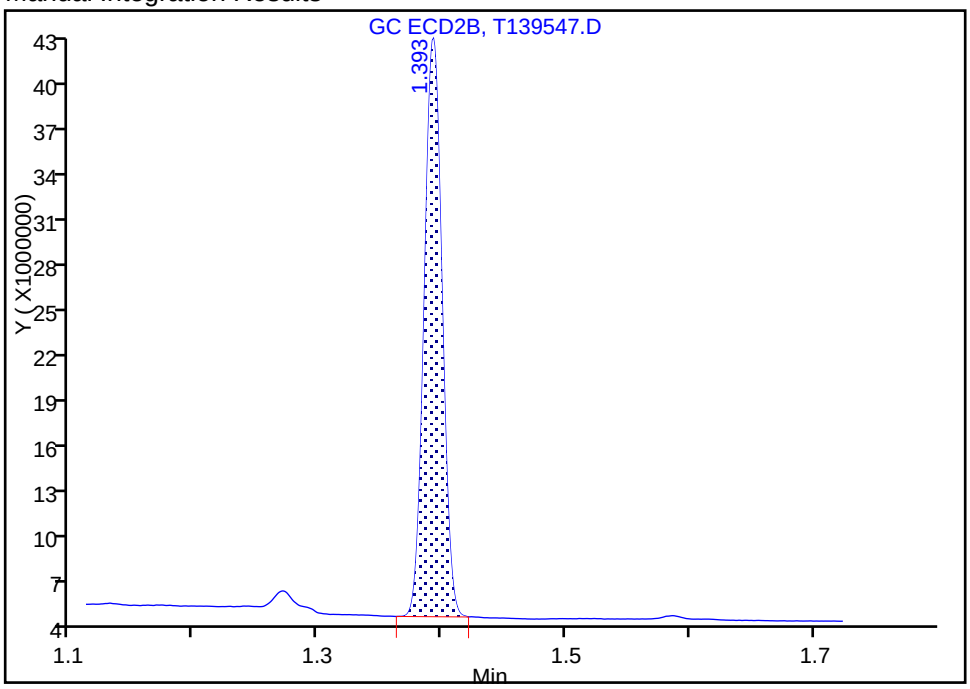
Processing Integration Results

RT: 1.39
Area: 38759462
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 37553678
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:47:53

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 18-Jan-2018 15:59:11 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139547.D

Injection Date: 18-Jan-2018 15:18:01 Instrument ID: CPESTGC11

Lims ID: IC 1242

Client ID:

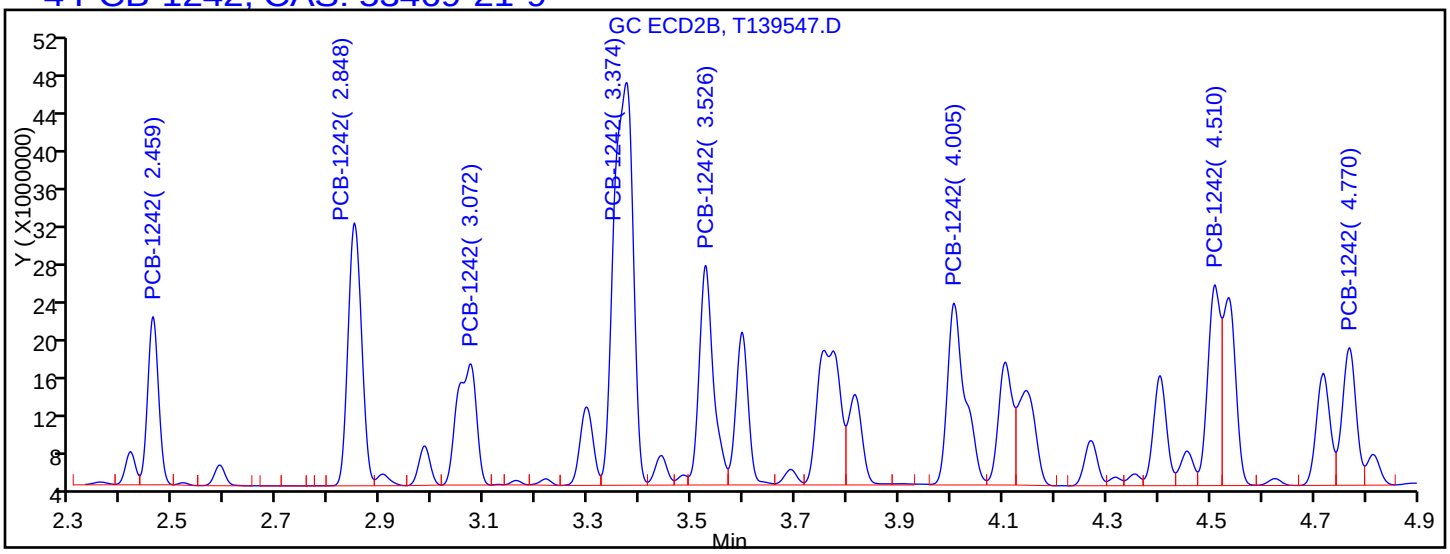
Operator ID: ALS Bottle#: 17 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

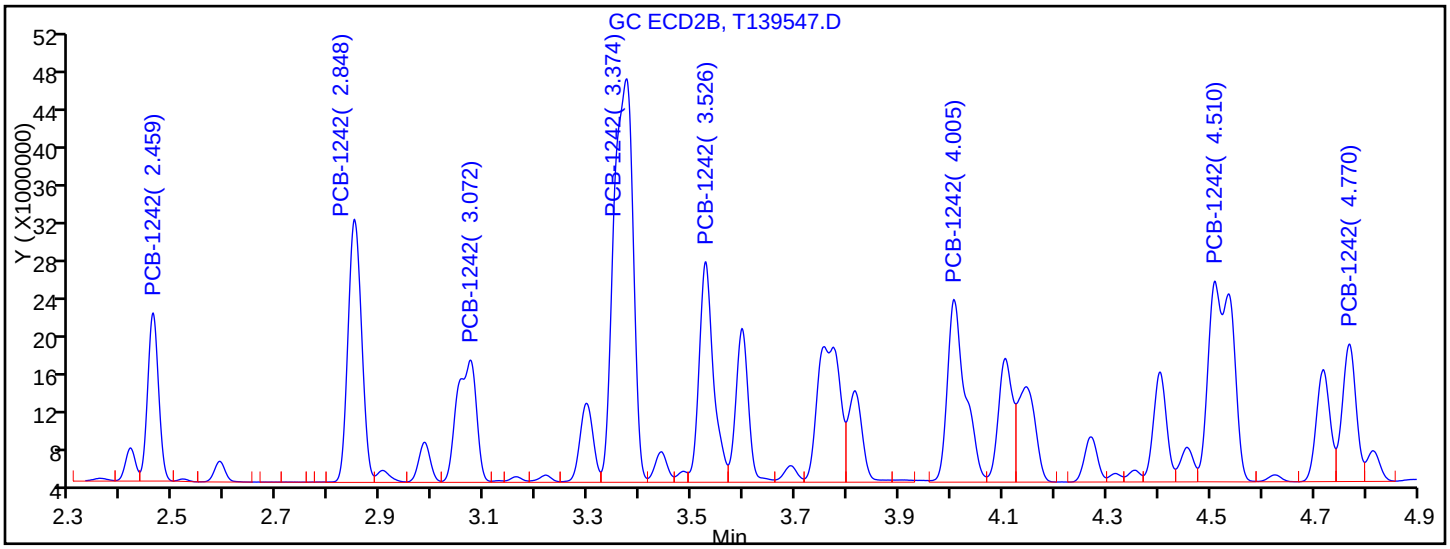
Column: Detector GC ECD2B

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.459	Response = 25698461
2.848	Response = 50097557
3.072	Response = 32750480
3.374	Response = 109247346
3.526	Response = 43812768
4.005	Response = 45131819
4.510	Response = 36058816
4.770	Response = 26710373



Manual Integration Results

2.459	Response = 25698461	
2.848	Response = 50274074	M
3.072	Response = 33387799	M
3.374	Response = 109680680	M
3.526	Response = 44298263	M
4.005	Response = 45773195	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:32 Calibration End Date: 01/18/2018 15:32 Calibration ID: 66159

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/11	T139548.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0126					Ave		0.0126						20.0			0.9900
PCB-1248 Peak 2	0.0351					Ave		0.0351						20.0			0.9900
PCB-1248 Peak 3	0.0190					Ave		0.0190						20.0			0.9900
PCB-1248 Peak 4	0.0171					Ave		0.0171						20.0			0.9900
PCB-1248 Peak 5	0.0285					Ave		0.0285						20.0			0.9900
PCB-1248 Peak 6	0.0296					Ave		0.0296						20.0			0.9900
PCB-1248 Peak 7	0.0333					Ave		0.0333						20.0			0.9900
PCB-1248 Peak 8	0.0179					Ave		0.0179						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:32 Calibration End Date: 01/18/2018 15:32 Calibration ID: 66159

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/11	T139548.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	14551974					1000				
PCB-1248 Peak 2	BNB	Ave	40462836					1000				
PCB-1248 Peak 3	BNB	Ave	21865494					1000				
PCB-1248 Peak 4	BNB	Ave	19662411					1000				
PCB-1248 Peak 5	BNB	Ave	32830395					1000				
PCB-1248 Peak 6	BNB	Ave	34147149					1000				
PCB-1248 Peak 7	BNB	Ave	38368679					1000				
PCB-1248 Peak 8	BNB	Ave	20629583					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:32:40 ALS Bottle#: 18 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-011
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:12 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:40:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.661	0.000	23052027	20.0	20.0	
2	1.393	1.393	0.000	34183836	20.0	20.0	M
						RPD = 0.00	
6 PCB-1248							M
1	3.788	3.788	0.000	14551974	1000.0	1000.0	
1	4.363	4.363	0.000	40462836	1000.0	1000.0	
1	4.803	4.803	0.000	21865494	1000.0	1000.0	
1	4.854	4.854	0.000	19662411	1000.0	1000.0	
1	5.289	5.289	0.000	32830395	1000.0	1000.0	
1	5.629	5.629	0.000	34147149	1000.0	1000.0	
1	5.687	5.687	0.000	38368679	1000.0	1000.0	
1	6.647	6.647	0.000	20629583	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	2.847	2.847	0.000	28256758	1000.0	1000.0	
2	3.371	3.371	0.000	77135069	1000.0	1000.0	M
2	3.752	3.752	0.000	76146215	1000.0	1000.0	M
2	4.104	4.104	0.000	42615856	1000.0	1000.0	M
2	4.508	4.508	0.000	119902533	1000.0	1000.0	M
2	4.768	4.768	0.000	52446591	1000.0	1000.0	M
2	5.239	5.239	0.000	34620682	1000.0	1000.0	M
2	5.933	5.933	0.000	23626081	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

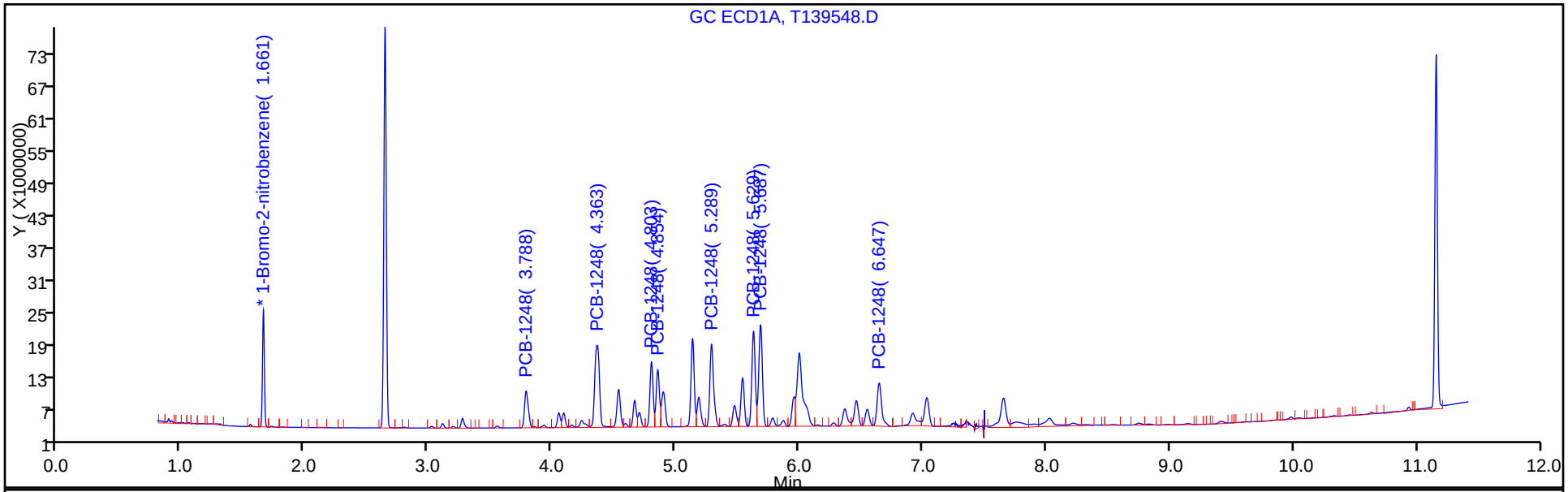
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

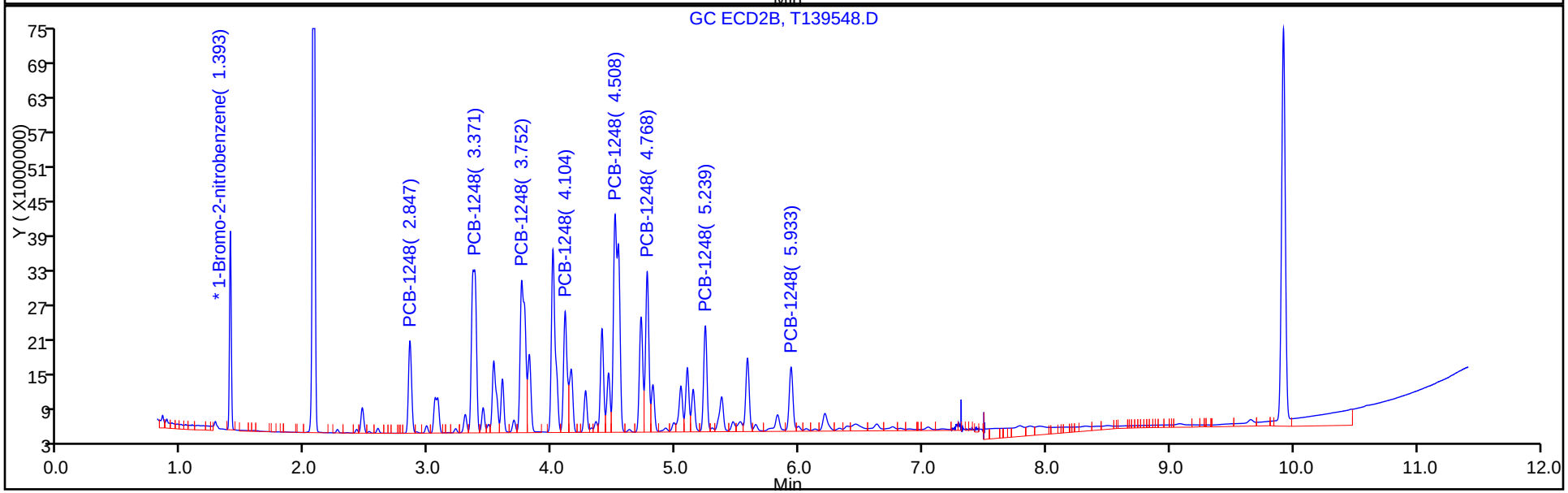
Report Date: 18-Jan-2018 15:59:14 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D

Injection Date:	18-Jan-2018 15:32:40	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:32 Calibration End Date: 01/18/2018 15:32 Calibration ID: 66160

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/11	T139548.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0165					Ave		0.0165						20.0			0.9900
PCB-1248 Peak 2	0.0451					Ave		0.0451						20.0			0.9900
PCB-1248 Peak 3	0.0446					Ave		0.0446						20.0			0.9900
PCB-1248 Peak 4	0.0249					Ave		0.0249						20.0			0.9900
PCB-1248 Peak 5	0.0702					Ave		0.0702						20.0			0.9900
PCB-1248 Peak 6	0.0307					Ave		0.0307						20.0			0.9900
PCB-1248 Peak 7	0.0203					Ave		0.0203						20.0			0.9900
PCB-1248 Peak 8	0.0138					Ave		0.0138						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:32 Calibration End Date: 01/18/2018 15:32 Calibration ID: 66160

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/11	T139548.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	28256758					1000				
PCB-1248 Peak 2	BNB	Ave	77135069					1000				
PCB-1248 Peak 3	BNB	Ave	76146215					1000				
PCB-1248 Peak 4	BNB	Ave	42615856					1000				
PCB-1248 Peak 5	BNB	Ave	119902533					1000				
PCB-1248 Peak 6	BNB	Ave	52446591					1000				
PCB-1248 Peak 7	BNB	Ave	34620682					1000				
PCB-1248 Peak 8	BNB	Ave	23626081					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:32:40 ALS Bottle#: 18 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-011
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:12 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:40:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.661	1.661	0.000	23052027	20.0	20.0	
2	1.393	1.393	0.000	34183836	20.0	20.0	M
						RPD = 0.00	
6 PCB-1248							M
1	3.788	3.788	0.000	14551974	1000.0	1000.0	
1	4.363	4.363	0.000	40462836	1000.0	1000.0	
1	4.803	4.803	0.000	21865494	1000.0	1000.0	
1	4.854	4.854	0.000	19662411	1000.0	1000.0	
1	5.289	5.289	0.000	32830395	1000.0	1000.0	
1	5.629	5.629	0.000	34147149	1000.0	1000.0	
1	5.687	5.687	0.000	38368679	1000.0	1000.0	
1	6.647	6.647	0.000	20629583	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	2.847	2.847	0.000	28256758	1000.0	1000.0	
2	3.371	3.371	0.000	77135069	1000.0	1000.0	M
2	3.752	3.752	0.000	76146215	1000.0	1000.0	M
2	4.104	4.104	0.000	42615856	1000.0	1000.0	M
2	4.508	4.508	0.000	119902533	1000.0	1000.0	M
2	4.768	4.768	0.000	52446591	1000.0	1000.0	M
2	5.239	5.239	0.000	34620682	1000.0	1000.0	M
2	5.933	5.933	0.000	23626081	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

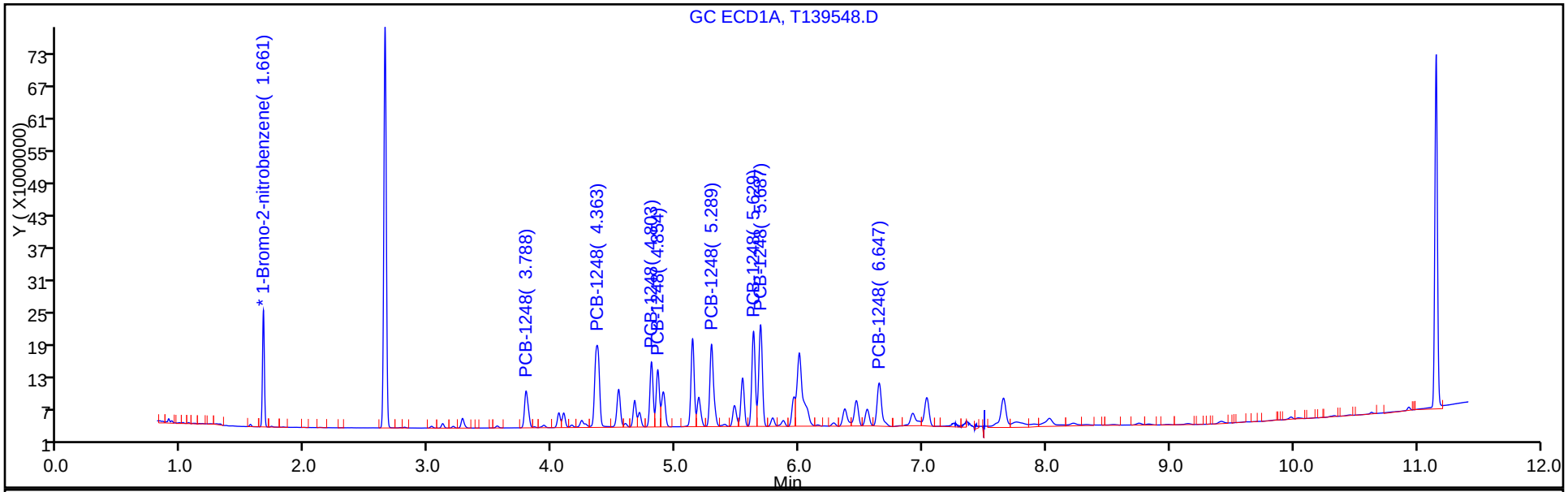
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

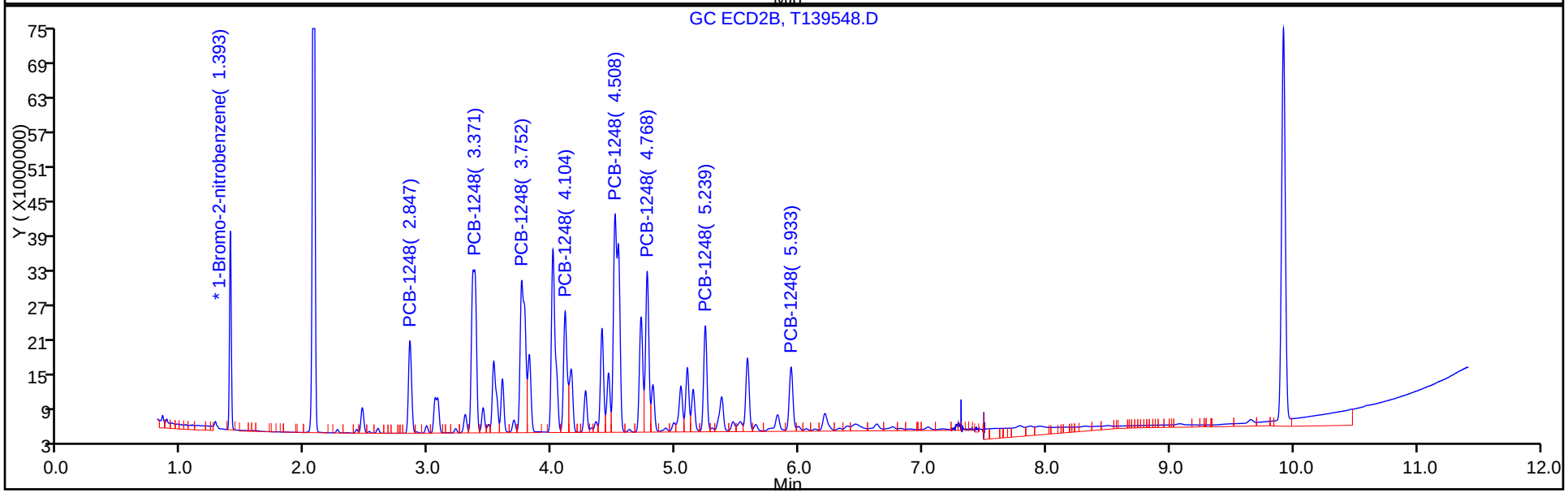
Report Date: 18-Jan-2018 15:59:14 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D

Injection Date:	18-Jan-2018 15:32:40	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

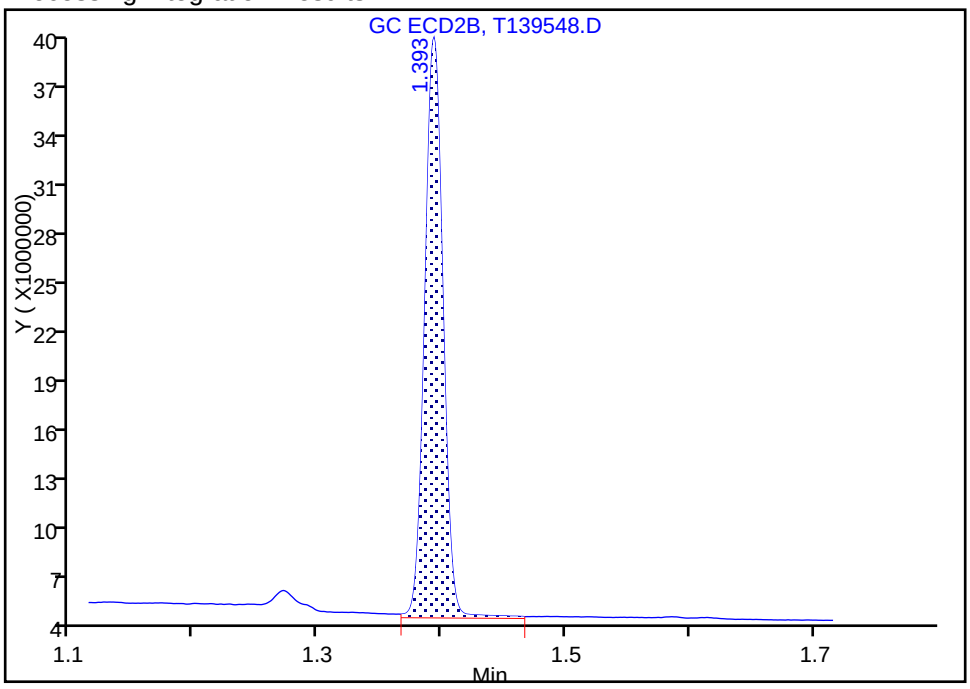
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D		
Injection Date:	18-Jan-2018 15:32:40	Instrument ID:	CPESTGC11
Lims ID:	IC 1248		
Client ID:			
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

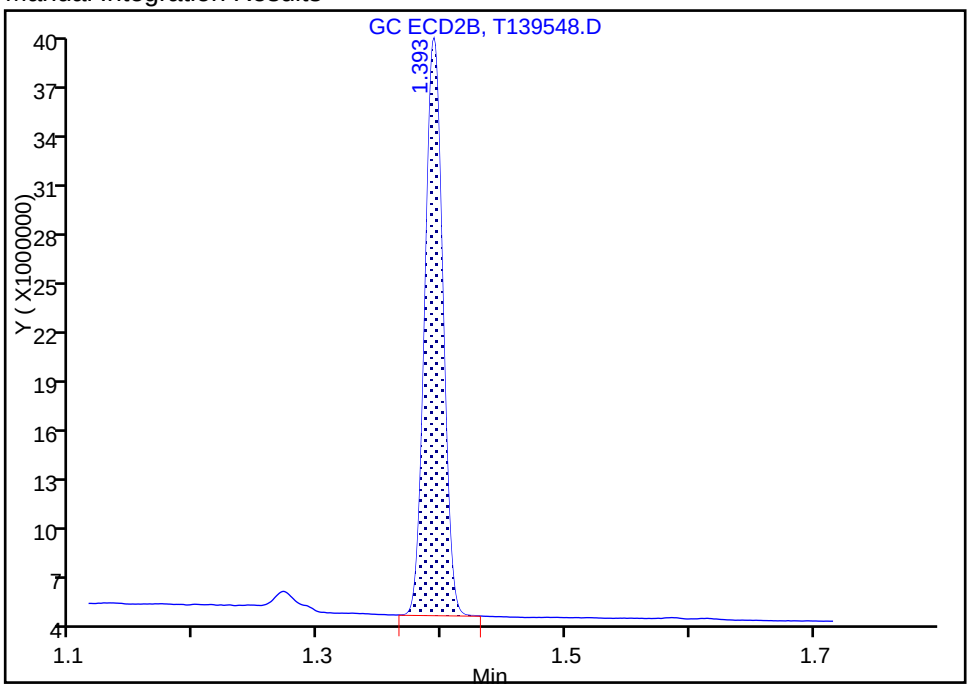
Processing Integration Results

RT: 1.39
Area: 35186632
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 34183836
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:50:29

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:59:14 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139548.D

Injection Date: 18-Jan-2018 15:32:40 Instrument ID: CPESTGC11

Lims ID: IC 1248

Client ID:

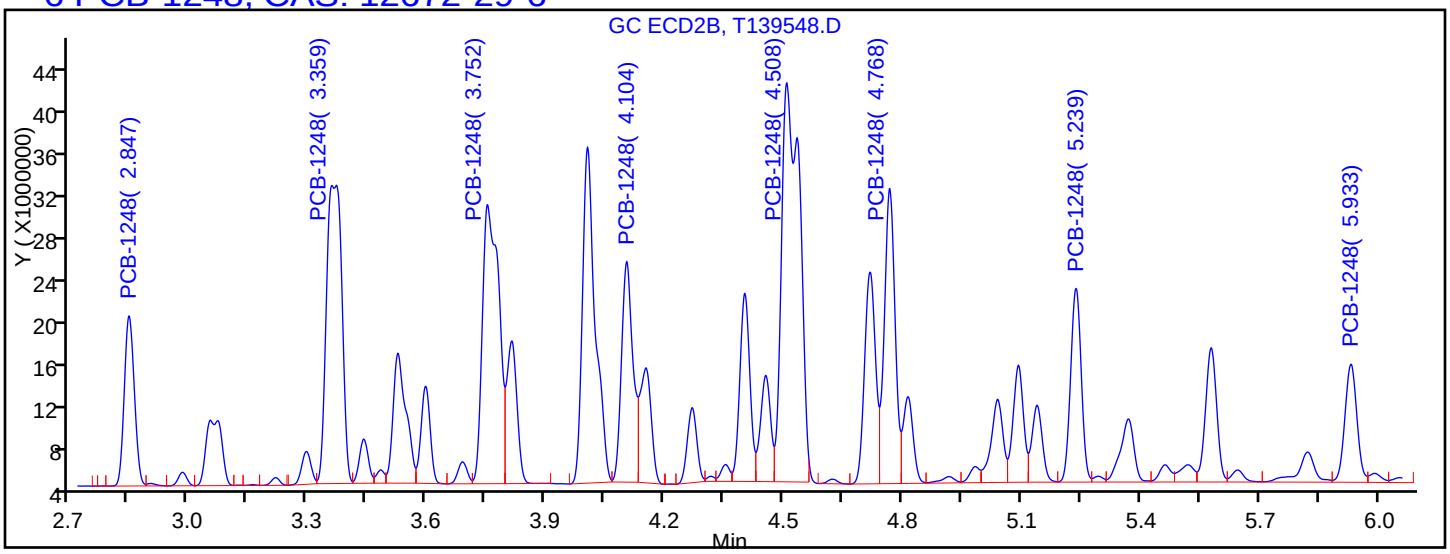
Operator ID: ALS Bottle#: 18 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

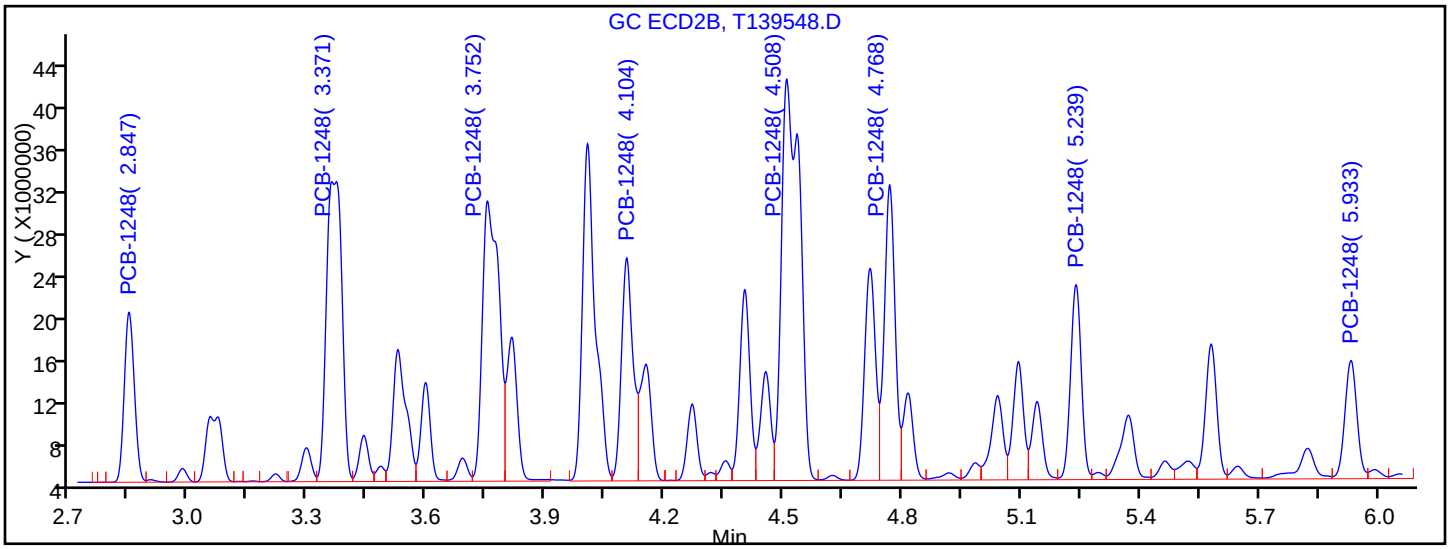
Column: Detector GC ECD2B

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.847	Response = 28256758
3.359	Response = 76206400
3.752	Response = 75554442
4.104	Response = 41673522
4.508	Response = 118021156
4.768	Response = 52332906
5.239	Response = 34005439
5.933	Response = 23518281



Manual Integration Results

2.847	Response = 28256758	
3.371	Response = 77135069	M
3.752	Response = 76146215	M
4.104	Response = 42615856	M
4.508	Response = 119902533	M
4.768	Response = 52446591	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:47 Calibration End Date: 01/18/2018 15:47 Calibration ID: 66165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/12	T139549.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0096					Ave		0.0096						20.0			0.9900
PCB-1254 Peak 2	0.0298					Ave		0.0298						20.0			0.9900
PCB-1254 Peak 3	0.0351					Ave		0.0351						20.0			0.9900
PCB-1254 Peak 4	0.0281					Ave		0.0281						20.0			0.9900
PCB-1254 Peak 5	0.0540					Ave		0.0540						20.0			0.9900
PCB-1254 Peak 6	0.0397					Ave		0.0397						20.0			0.9900
PCB-1254 Peak 7	0.0350					Ave		0.0350						20.0			0.9900
PCB-1254 Peak 8	0.0564					Ave		0.0564						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:47 Calibration End Date: 01/18/2018 15:47 Calibration ID: 66165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/12	T139549.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	10378178					1000				
PCB-1254 Peak 2	BNB	Ave	32409747					1000				
PCB-1254 Peak 3	BNB	Ave	38112660					1000				
PCB-1254 Peak 4	BNB	Ave	30488367					1000				
PCB-1254 Peak 5	BNB	Ave	58623992					1000				
PCB-1254 Peak 6	BNB	Ave	43158354					1000				
PCB-1254 Peak 7	BNB	Ave	38073441					1000				
PCB-1254 Peak 8	BNB	Ave	61332154					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:47:16 ALS Bottle#: 19 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-012
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:15 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:37:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	21731899	20.0	20.0	
2	1.393	1.393	0.000	33551942	20.0	20.0	M
						RPD = 0.00	
7 PCB-1254							M
1	5.137	5.137	0.000	10378178	1000.0	1000.0	
1	5.679	5.679	0.000	32409747	1000.0	1000.0	
1	5.953	5.953	0.000	38112660	1000.0	1000.0	
1	6.461	6.461	0.000	30488367	1000.0	1000.0	
1	6.646	6.646	0.000	58623992	1000.0	1000.0	
1	7.032	7.032	0.000	43158354	1000.0	1000.0	
1	7.651	7.651	0.000	38073441	1000.0	1000.0	
1	8.026	8.026	0.000	61332154	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	4.005	4.005	0.000	20027868	1000.0	1000.0	M
2	4.457	4.457	0.000	52476230	1000.0	1000.0	M
2	4.772	4.772	0.000	73147410	1000.0	1000.0	M
2	5.092	5.092	0.000	57304121	1000.0	1000.0	M
2	5.239	5.239	0.000	99831418	1000.0	1000.0	M
2	5.580	5.580	0.000	79404528	1000.0	1000.0	M
2	5.823	5.823	0.000	71460348	1000.0	1000.0	M
2	6.206	6.206	0.000	105758237	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

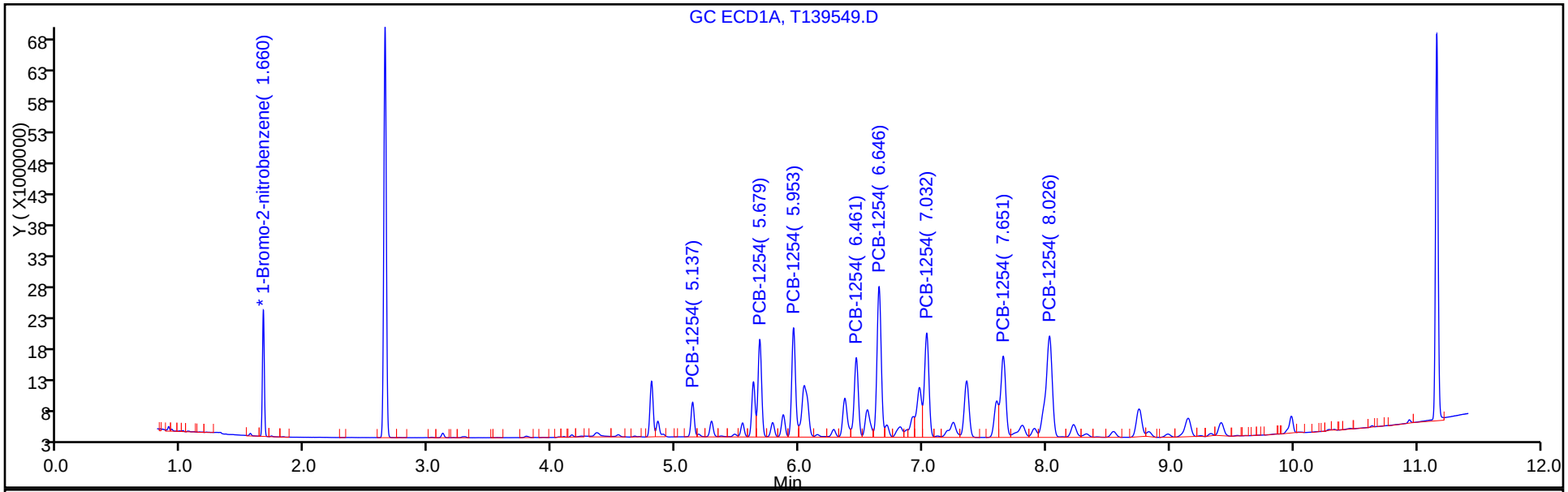
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

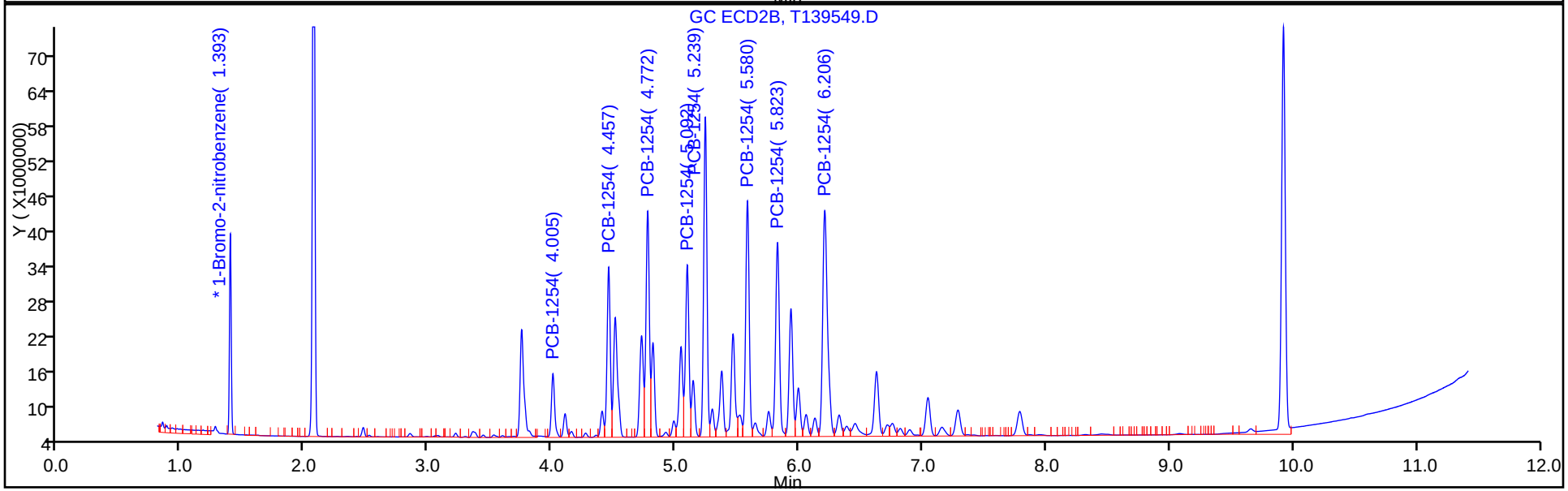
Report Date: 18-Jan-2018 15:59:17 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D

Injection Date:	18-Jan-2018 15:47:16	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:47 Calibration End Date: 01/18/2018 15:47 Calibration ID: 66166

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/12	T139549.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0119					Ave		0.0119						20.0			0.9900
PCB-1254 Peak 2	0.0313					Ave		0.0313						20.0			0.9900
PCB-1254 Peak 3	0.0436					Ave		0.0436						20.0			0.9900
PCB-1254 Peak 4	0.0342					Ave		0.0342						20.0			0.9900
PCB-1254 Peak 5	0.0595					Ave		0.0595						20.0			0.9900
PCB-1254 Peak 6	0.0473					Ave		0.0473						20.0			0.9900
PCB-1254 Peak 7	0.0426					Ave		0.0426						20.0			0.9900
PCB-1254 Peak 8	0.0630					Ave		0.0630						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 15:47 Calibration End Date: 01/18/2018 15:47 Calibration ID: 66166

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/12	T139549.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	20027868					1000				
PCB-1254 Peak 2	BNB	Ave	52476230					1000				
PCB-1254 Peak 3	BNB	Ave	73147410					1000				
PCB-1254 Peak 4	BNB	Ave	57304121					1000				
PCB-1254 Peak 5	BNB	Ave	99831418					1000				
PCB-1254 Peak 6	BNB	Ave	79404528					1000				
PCB-1254 Peak 7	BNB	Ave	71460348					1000				
PCB-1254 Peak 8	BNB	Ave	105758237					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 15:47:16 ALS Bottle#: 19 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-012
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:15 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:37:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	21731899	20.0	20.0	
2	1.393	1.393	0.000	33551942	20.0	20.0	M
						RPD = 0.00	
7 PCB-1254							M
1	5.137	5.137	0.000	10378178	1000.0	1000.0	
1	5.679	5.679	0.000	32409747	1000.0	1000.0	
1	5.953	5.953	0.000	38112660	1000.0	1000.0	
1	6.461	6.461	0.000	30488367	1000.0	1000.0	
1	6.646	6.646	0.000	58623992	1000.0	1000.0	
1	7.032	7.032	0.000	43158354	1000.0	1000.0	
1	7.651	7.651	0.000	38073441	1000.0	1000.0	
1	8.026	8.026	0.000	61332154	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	4.005	4.005	0.000	20027868	1000.0	1000.0	M
2	4.457	4.457	0.000	52476230	1000.0	1000.0	M
2	4.772	4.772	0.000	73147410	1000.0	1000.0	M
2	5.092	5.092	0.000	57304121	1000.0	1000.0	M
2	5.239	5.239	0.000	99831418	1000.0	1000.0	M
2	5.580	5.580	0.000	79404528	1000.0	1000.0	M
2	5.823	5.823	0.000	71460348	1000.0	1000.0	M
2	6.206	6.206	0.000	105758237	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

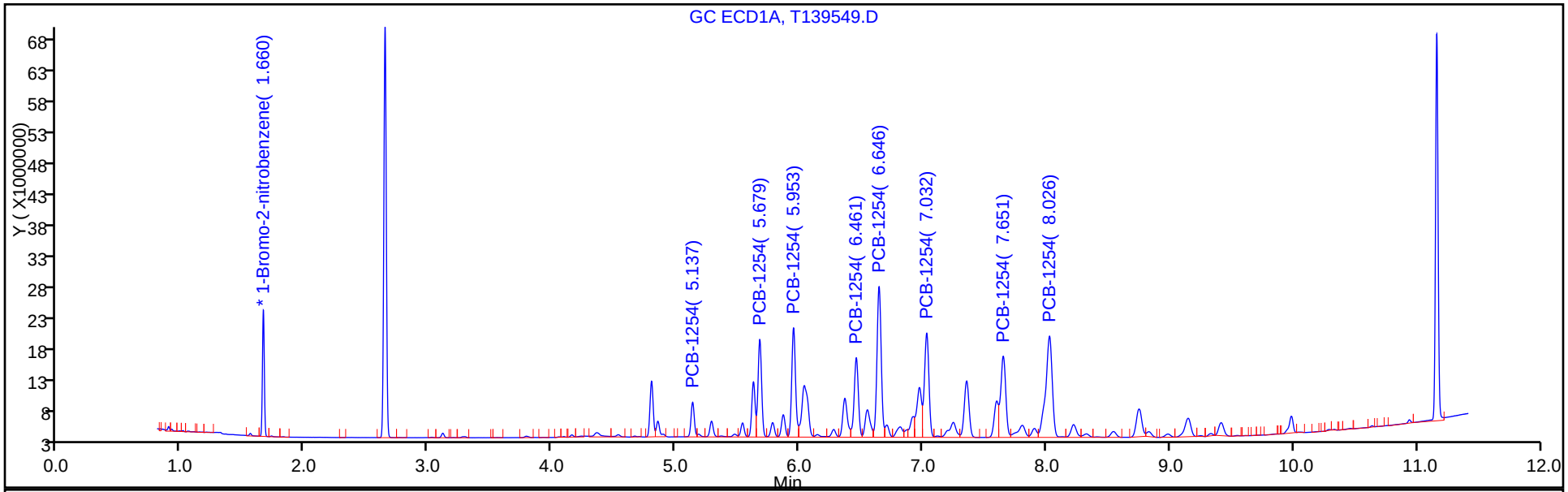
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

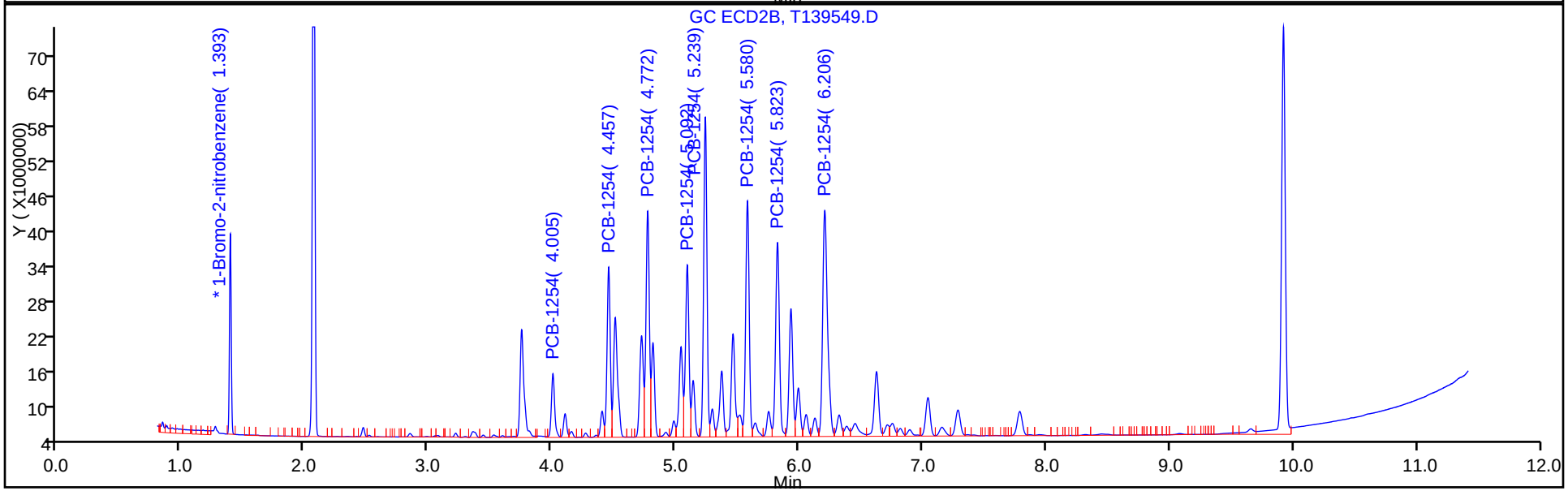
Report Date: 18-Jan-2018 15:59:17 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D

Injection Date:	18-Jan-2018 15:47:16	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

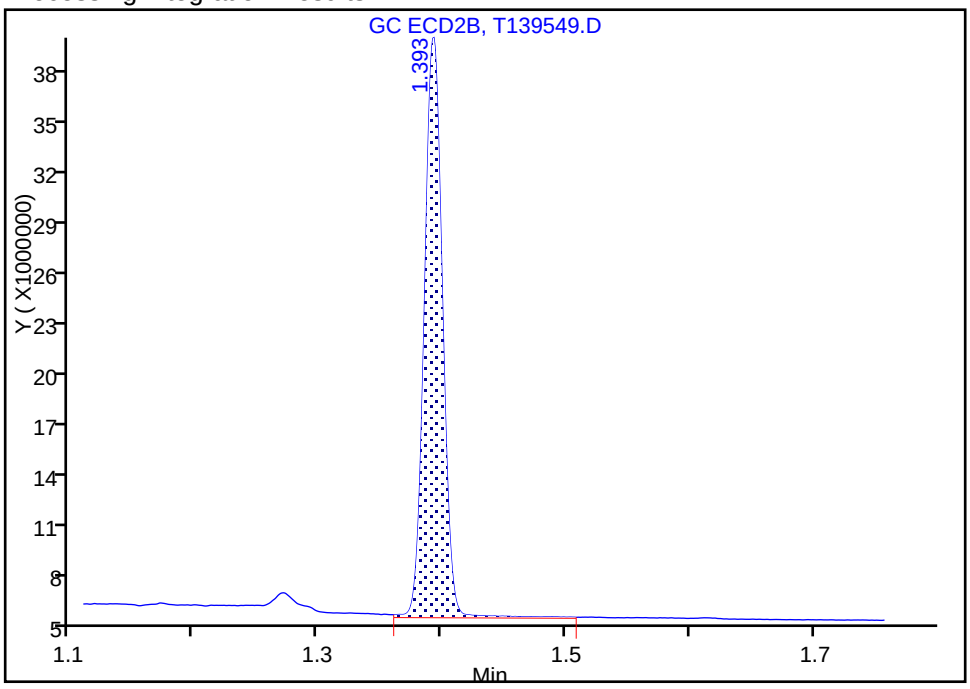
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D		
Injection Date:	18-Jan-2018 15:47:16	Instrument ID:	CPESTGC11
Lims ID:	IC 1254		
Client ID:			
Operator ID:		ALS Bottle#:	19 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

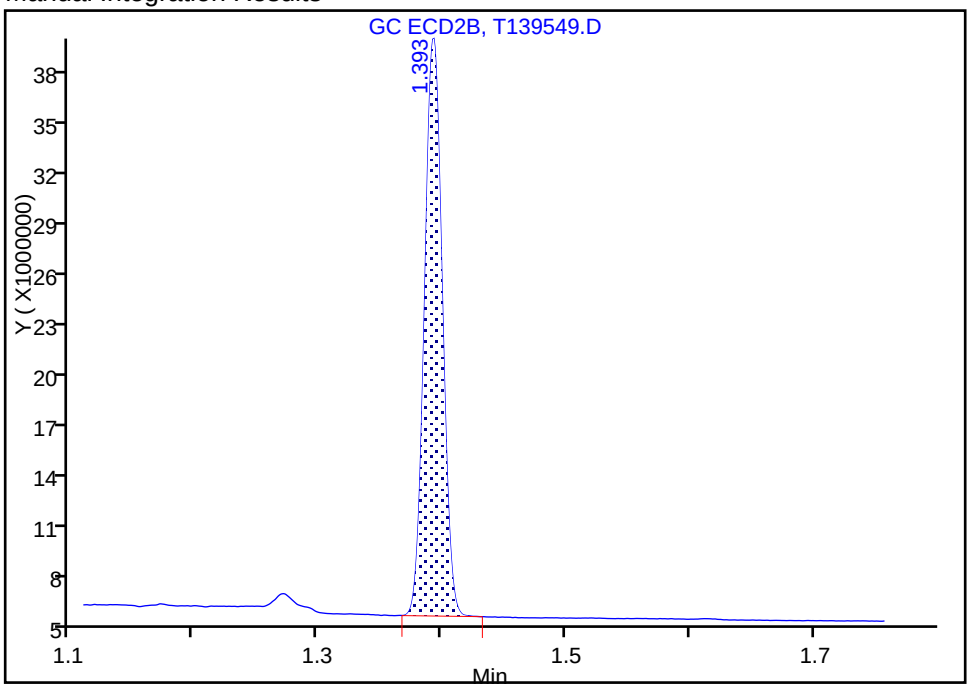
Processing Integration Results

RT: 1.39
Area: 34559559
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 33551942
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:51:05

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 18-Jan-2018 15:59:17 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139549.D

Injection Date: 18-Jan-2018 15:47:16 Instrument ID: CPESTGC11

Lims ID: IC 1254

Client ID:

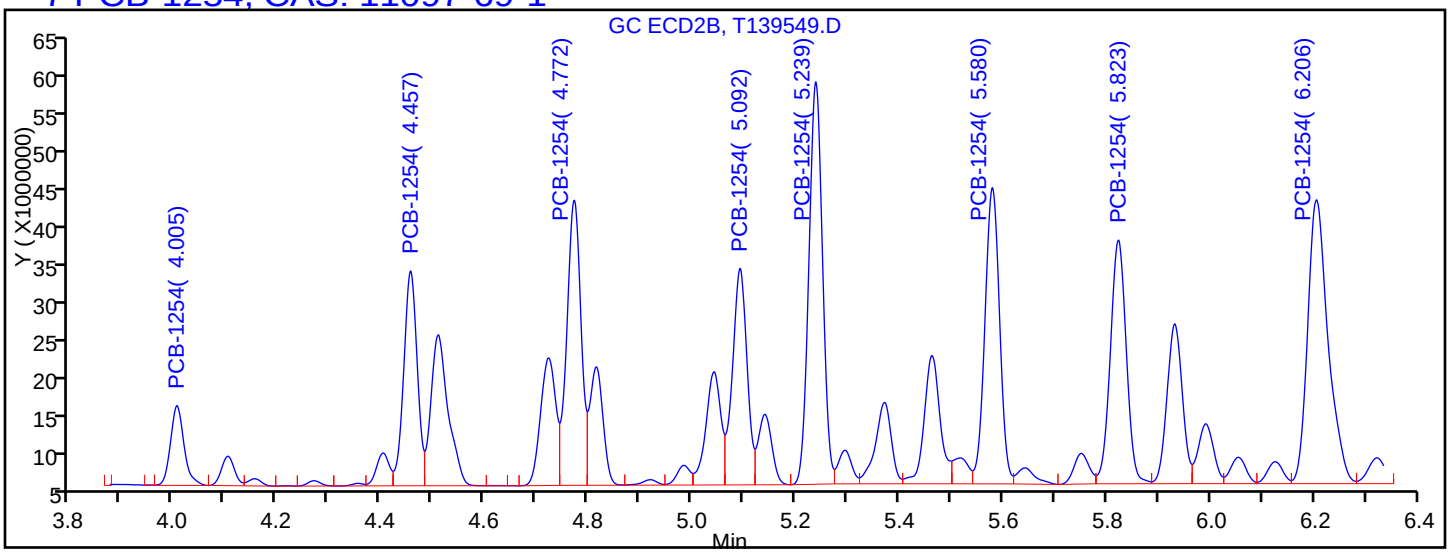
Operator ID: ALS Bottle#: 19 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

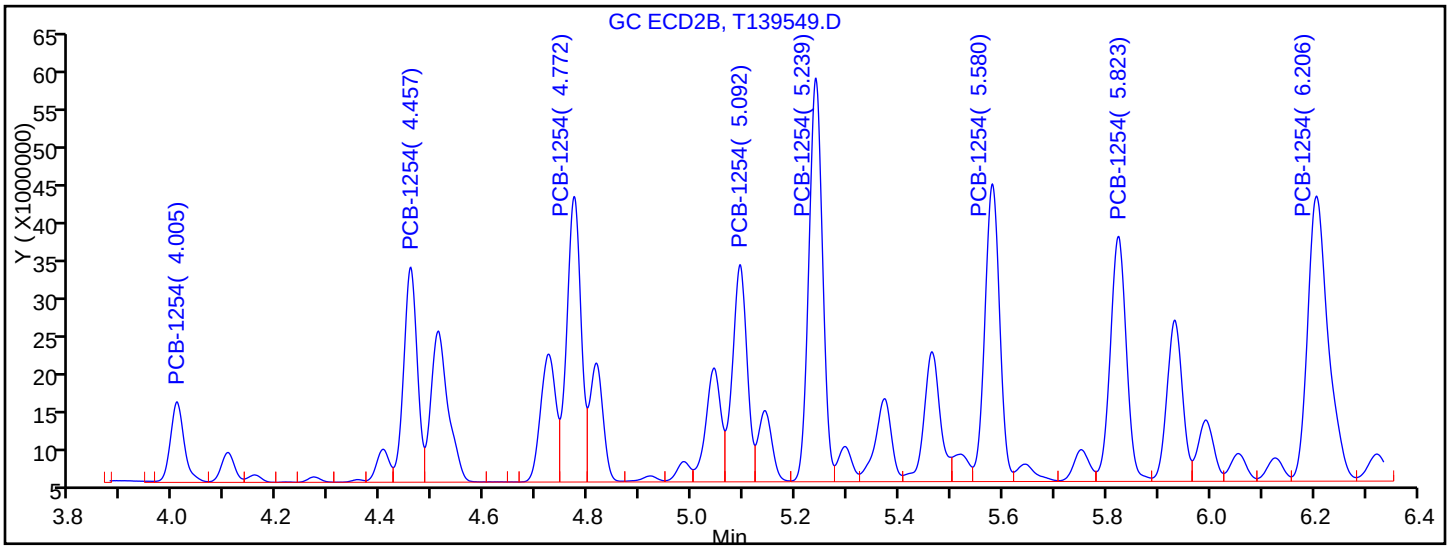
Column: Detector GC ECD2B

7 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.005	Response = 19405112
4.457	Response = 52384990
4.772	Response = 72954890
5.092	Response = 56969023
5.239	Response = 99020580
5.580	Response = 78490431
5.823	Response = 70238441
6.206	Response = 104467810



Manual Integration Results

4.005	Response = 20027868	M
4.457	Response = 52476230	M
4.772	Response = 73147410	M
5.092	Response = 57304121	M
5.239	Response = 99831418	M
5.580	Response = 79404528	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:01 Calibration End Date: 01/18/2018 16:01 Calibration ID: 66171

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/13	T139550.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0303					Ave		0.0303						20.0			0.9900
PCB-1262 Peak 2	0.0364					Ave		0.0364						20.0			0.9900
PCB-1262 Peak 3	0.0536					Ave		0.0536						20.0			0.9900
PCB-1262 Peak 4	0.0499					Ave		0.0499						20.0			0.9900
PCB-1262 Peak 5	0.1078					Ave		0.1078						20.0			0.9900
PCB-1262 Peak 6	0.0164					Ave		0.0164						20.0			0.9900
PCB-1262 Peak 7	0.0400					Ave		0.0400						20.0			0.9900
PCB-1262 Peak 8	0.0154					Ave		0.0154						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:01 Calibration End Date: 01/18/2018 16:01 Calibration ID: 66171

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/13	T139550.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	33719194					1000				
PCB-1262 Peak 2	BNB	Ave	40494724					1000				
PCB-1262 Peak 3	BNB	Ave	59661919					1000				
PCB-1262 Peak 4	BNB	Ave	55472784					1000				
PCB-1262 Peak 5	BNB	Ave	119912043					1000				
PCB-1262 Peak 6	BNB	Ave	18247941					1000				
PCB-1262 Peak 7	BNB	Ave	44493227					1000				
PCB-1262 Peak 8	BNB	Ave	17187226					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 16:01:52 ALS Bottle#: 20 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-013
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:18 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:34:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	22254174	20.0	20.0	
2	1.393	1.393	0.000	33826008	20.0	20.0	M
						RPD = 0.00	
9 PCB-1262							M
1	6.976	6.976	0.000	33719194	1000.0	1000.0	
1	7.356	7.356	0.000	40494724	1000.0	1000.0	
1	8.217	8.217	0.000	59661919	1000.0	1000.0	
1	8.833	8.833	0.000	55472784	1000.0	1000.0	M
1	9.416	9.416	0.000	119912043	1000.0	1000.0	M
1	10.459	10.459	0.000	18247941	1000.0	1000.0	
1	10.635	10.635	0.000	44493227	1000.0	1000.0	
1	10.938	10.938	0.000	17187226	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	5.463	5.463	0.000	59105499	1000.0	1000.0	
2	6.754	6.754	0.000	100144756	1000.0	1000.0	M
2	7.286	7.286	0.000	207195205	1000.0	1000.0	M
2	7.786	7.786	0.000	73296219	1000.0	1000.0	M
2	7.947	7.947	0.000	90514724	1000.0	1000.0	M
2	8.498	8.498	0.000	35124089	1000.0	1000.0	M
2	9.080	9.080	0.000	77011666	1000.0	1000.0	M
2	9.655	9.655	0.000	27278445	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

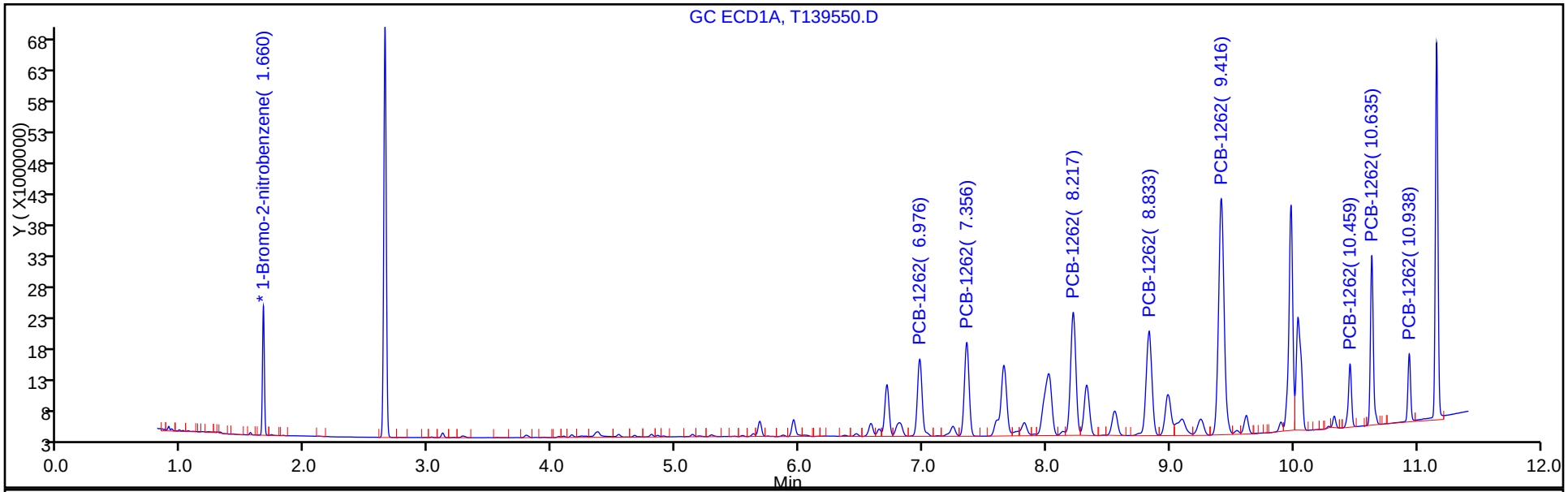
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

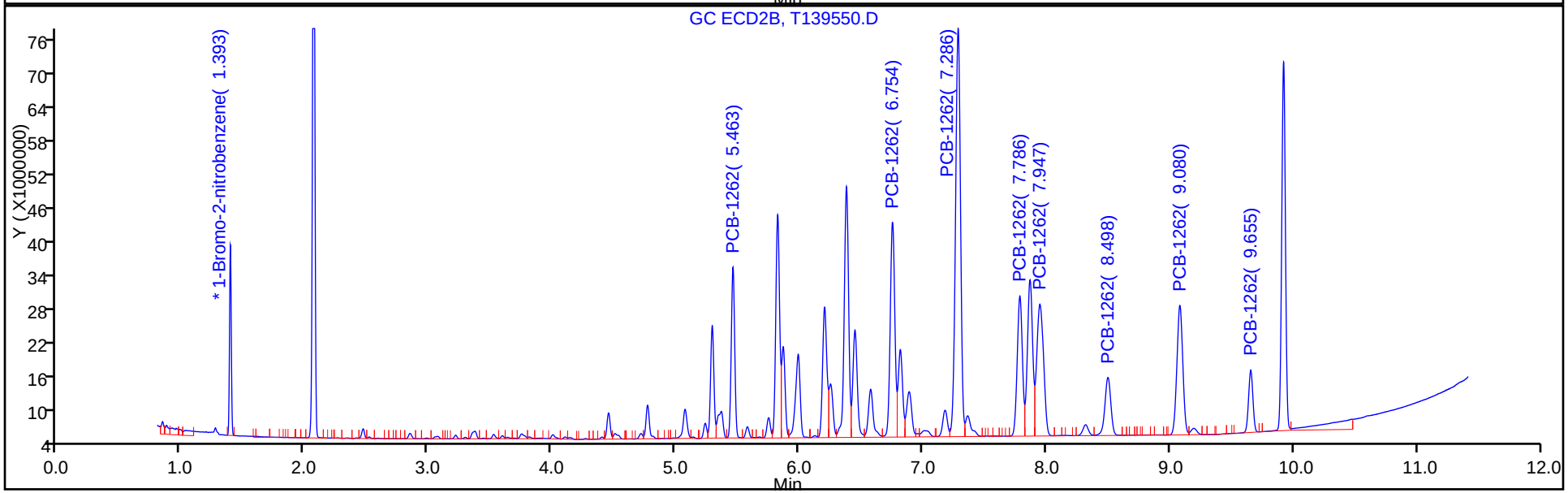
Report Date: 18-Jan-2018 15:59:20 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D

Injection Date:	18-Jan-2018 16:01:52	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 18-Jan-2018 15:59:20 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D

Injection Date: 18-Jan-2018 16:01:52 Instrument ID: CPESTGC11

Lims ID: IC 1262

Client ID:

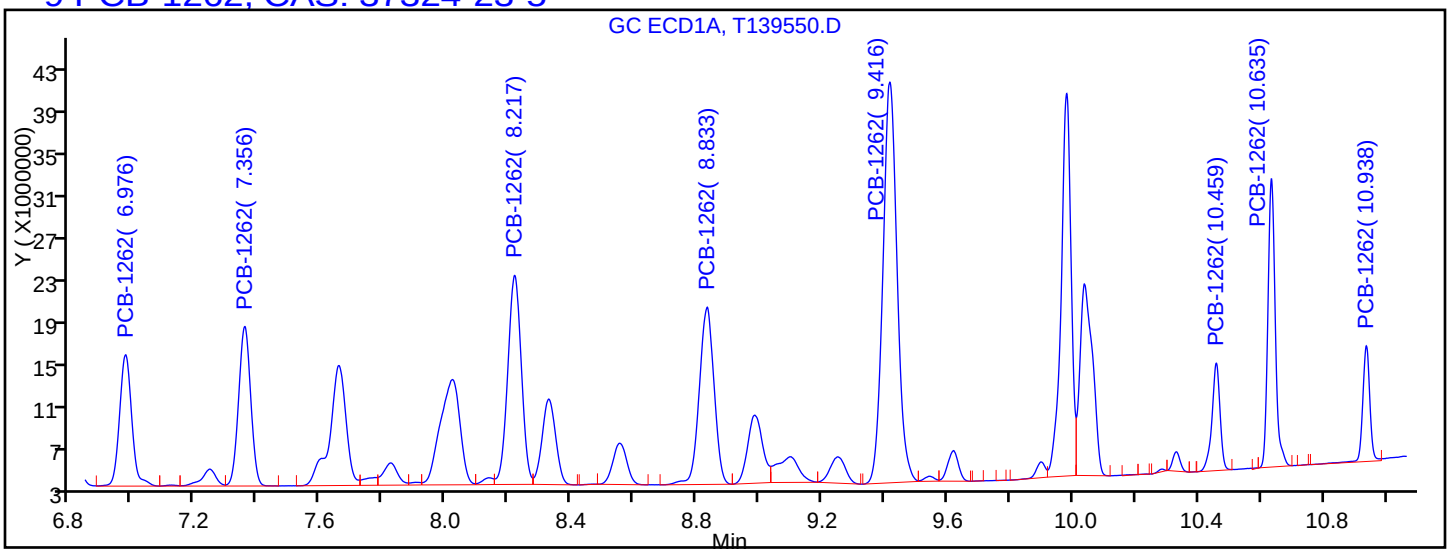
Operator ID: ALS Bottle#: 20 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

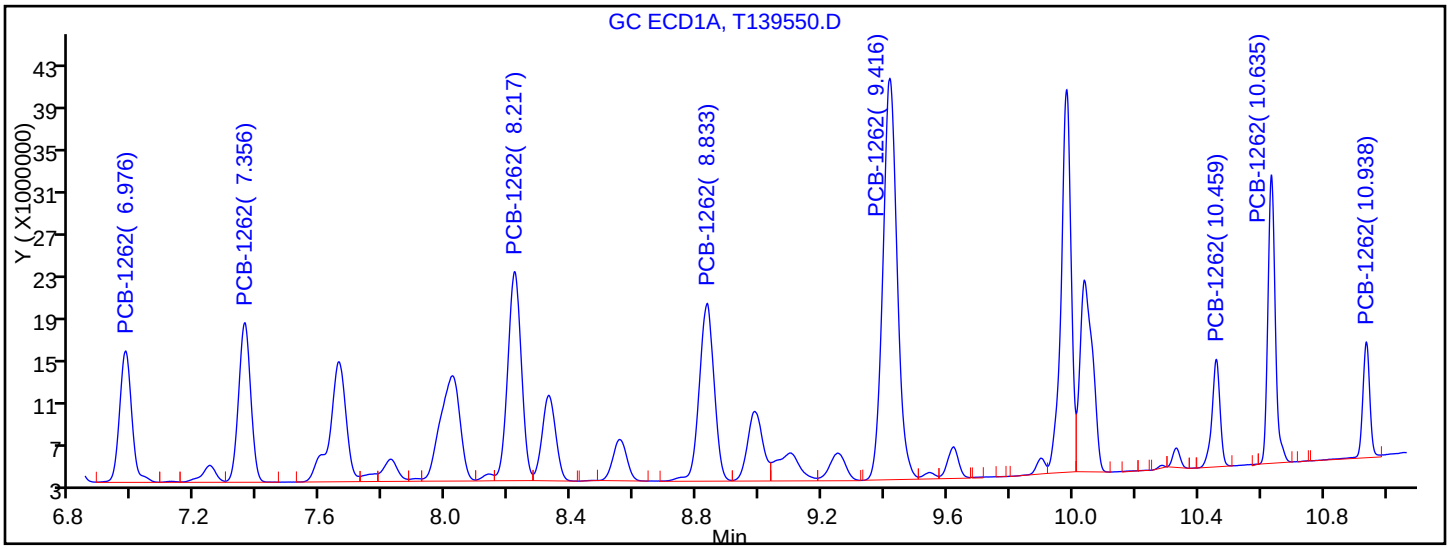
Column: Detector GC ECD1A

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

6.976	Response = 33719194
7.356	Response = 40494724
8.217	Response = 59661919
8.833	Response = 54914677
9.416	Response = 119233425
10.459	Response = 18247941
10.635	Response = 44493227
10.938	Response = 17187226



Manual Integration Results

6.976	Response = 33719194
7.356	Response = 40494724
8.217	Response = 59661919
8.833	Response = 55472784
9.416	Response = 119912043
10.459	Response = 18247941

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:01 Calibration End Date: 01/18/2018 16:01 Calibration ID: 66172

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/13	T139550.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0349					Ave		0.0349						20.0			0.9900
PCB-1262 Peak 2	0.0592					Ave		0.0592						20.0			0.9900
PCB-1262 Peak 3	0.1225					Ave		0.1225						20.0			0.9900
PCB-1262 Peak 4	0.0433					Ave		0.0433						20.0			0.9900
PCB-1262 Peak 5	0.0535					Ave		0.0535						20.0			0.9900
PCB-1262 Peak 6	0.0208					Ave		0.0208						20.0			0.9900
PCB-1262 Peak 7	0.0455					Ave		0.0455						20.0			0.9900
PCB-1262 Peak 8	0.0161					Ave		0.0161						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:01 Calibration End Date: 01/18/2018 16:01 Calibration ID: 66172

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/13	T139550.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	59105499					1000				
PCB-1262 Peak 2	BNB	Ave	100144756					1000				
PCB-1262 Peak 3	BNB	Ave	207195205					1000				
PCB-1262 Peak 4	BNB	Ave	73296219					1000				
PCB-1262 Peak 5	BNB	Ave	90514724					1000				
PCB-1262 Peak 6	BNB	Ave	35124089					1000				
PCB-1262 Peak 7	BNB	Ave	77011666					1000				
PCB-1262 Peak 8	BNB	Ave	27278445					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 16:01:52 ALS Bottle#: 20 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-013
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:18 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:34:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.660	0.000	22254174	20.0	20.0	
2	1.393	1.393	0.000	33826008	20.0	20.0	M
						RPD = 0.00	
9 PCB-1262							M
1	6.976	6.976	0.000	33719194	1000.0	1000.0	
1	7.356	7.356	0.000	40494724	1000.0	1000.0	
1	8.217	8.217	0.000	59661919	1000.0	1000.0	
1	8.833	8.833	0.000	55472784	1000.0	1000.0	M
1	9.416	9.416	0.000	119912043	1000.0	1000.0	M
1	10.459	10.459	0.000	18247941	1000.0	1000.0	
1	10.635	10.635	0.000	44493227	1000.0	1000.0	
1	10.938	10.938	0.000	17187226	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	5.463	5.463	0.000	59105499	1000.0	1000.0	
2	6.754	6.754	0.000	100144756	1000.0	1000.0	M
2	7.286	7.286	0.000	207195205	1000.0	1000.0	M
2	7.786	7.786	0.000	73296219	1000.0	1000.0	M
2	7.947	7.947	0.000	90514724	1000.0	1000.0	M
2	8.498	8.498	0.000	35124089	1000.0	1000.0	M
2	9.080	9.080	0.000	77011666	1000.0	1000.0	M
2	9.655	9.655	0.000	27278445	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

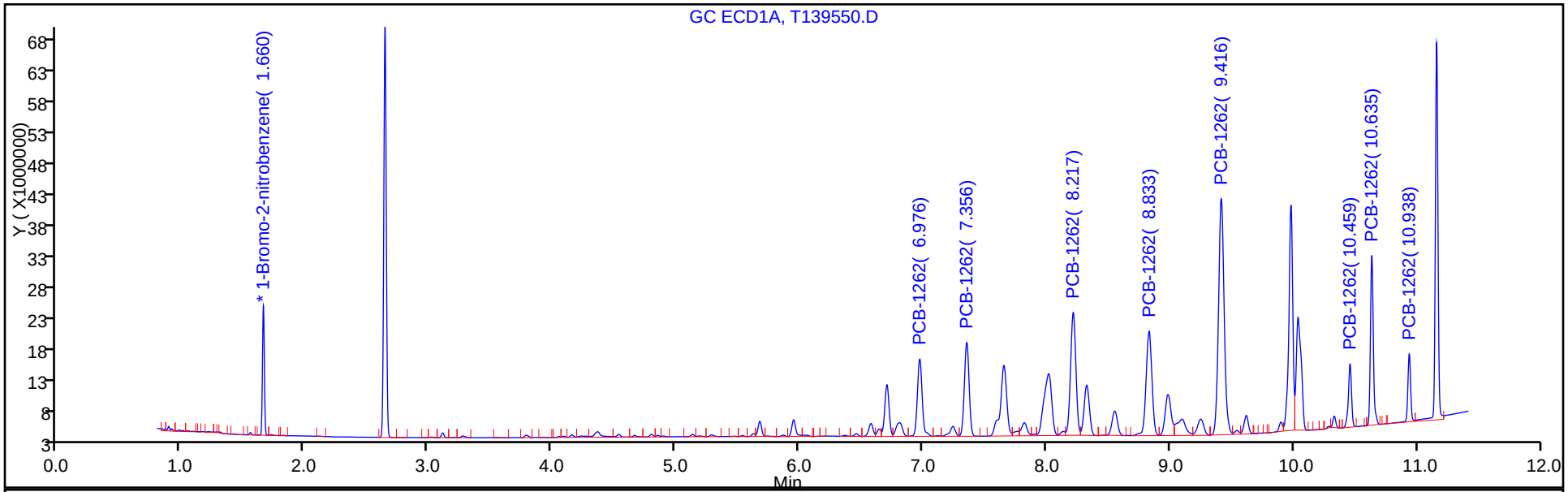
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

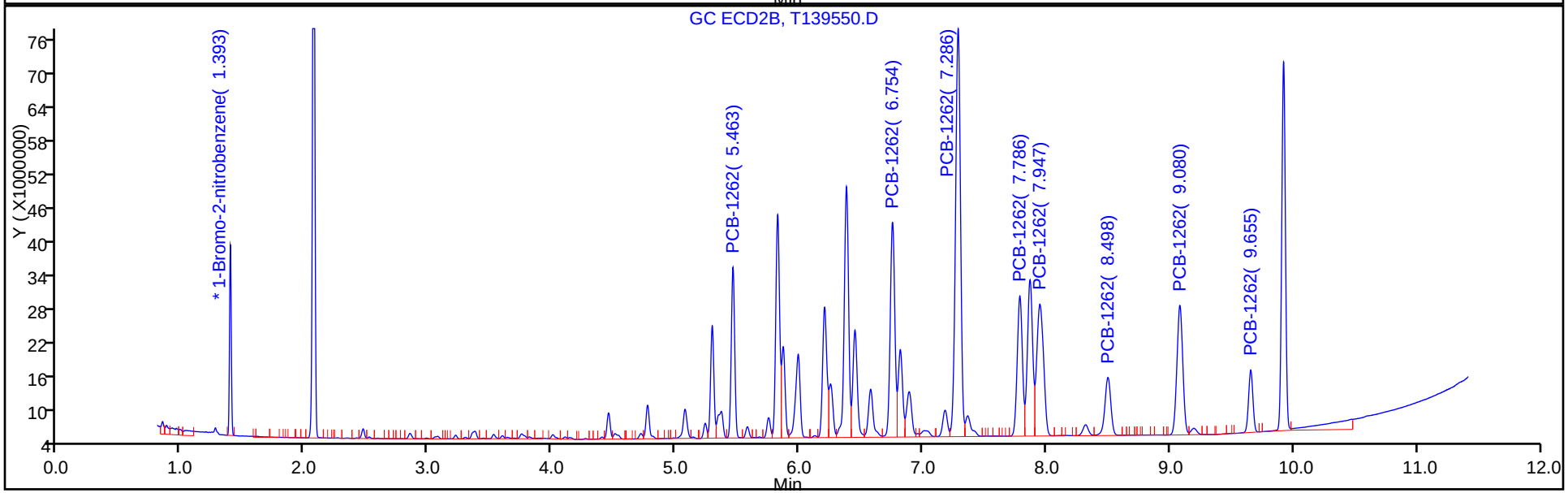
Report Date: 18-Jan-2018 15:59:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D

Injection Date:	18-Jan-2018 16:01:52	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

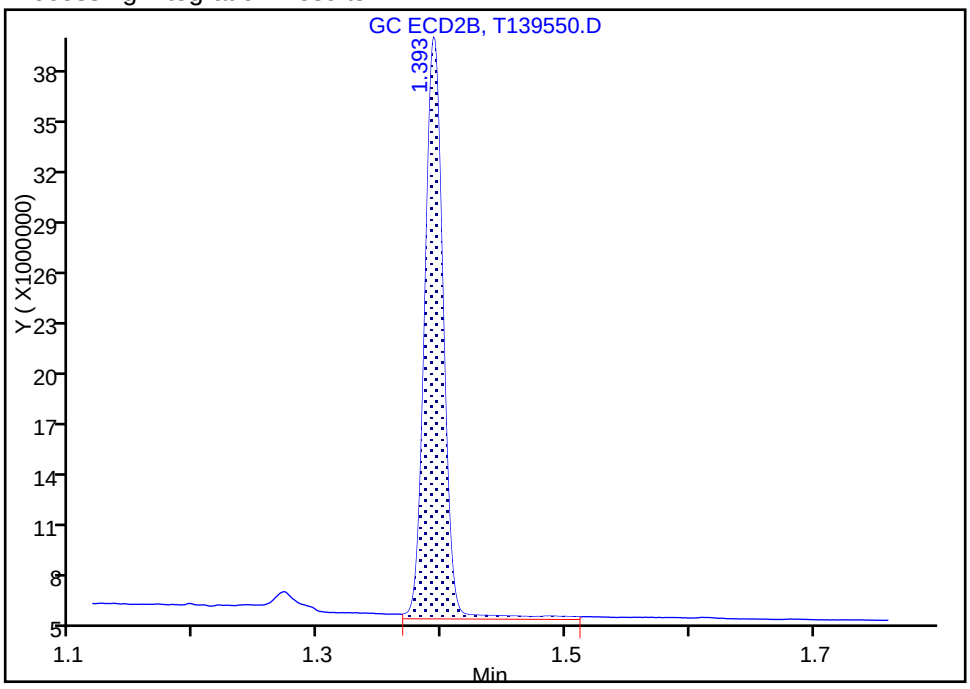
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D		
Injection Date:	18-Jan-2018 16:01:52	Instrument ID:	CPESTGC11
Lims ID:	IC 1262		
Client ID:			
Operator ID:		ALS Bottle#:	20 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

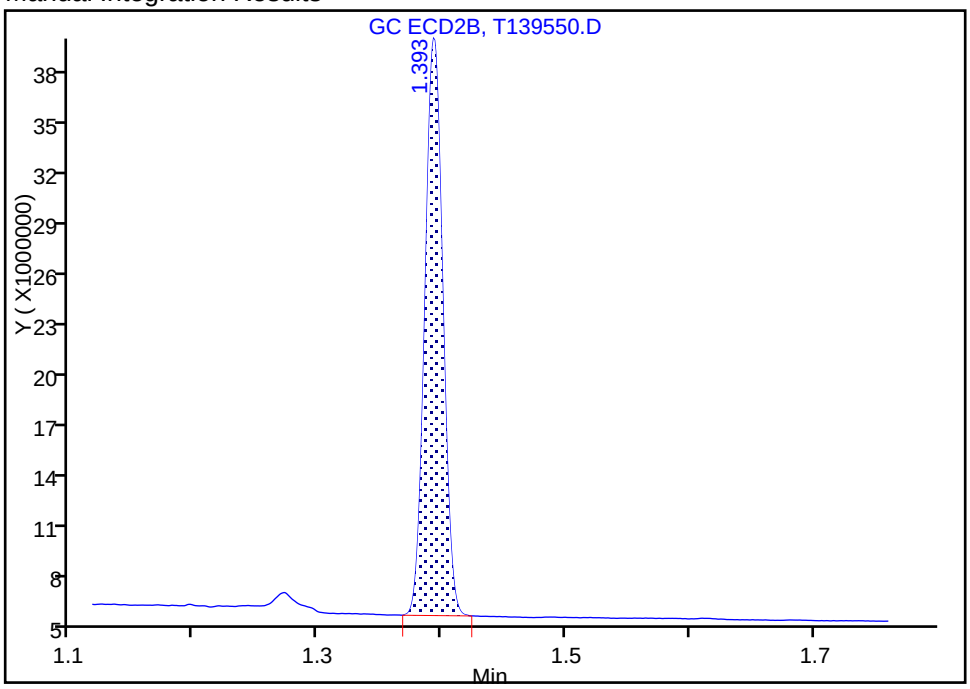
Processing Integration Results

RT: 1.39
Area: 35621082
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 33826008
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:35:16

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 18-Jan-2018 15:59:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139550.D

Injection Date: 18-Jan-2018 16:01:52 Instrument ID: CPESTGC11

Lims ID: IC 1262

Client ID:

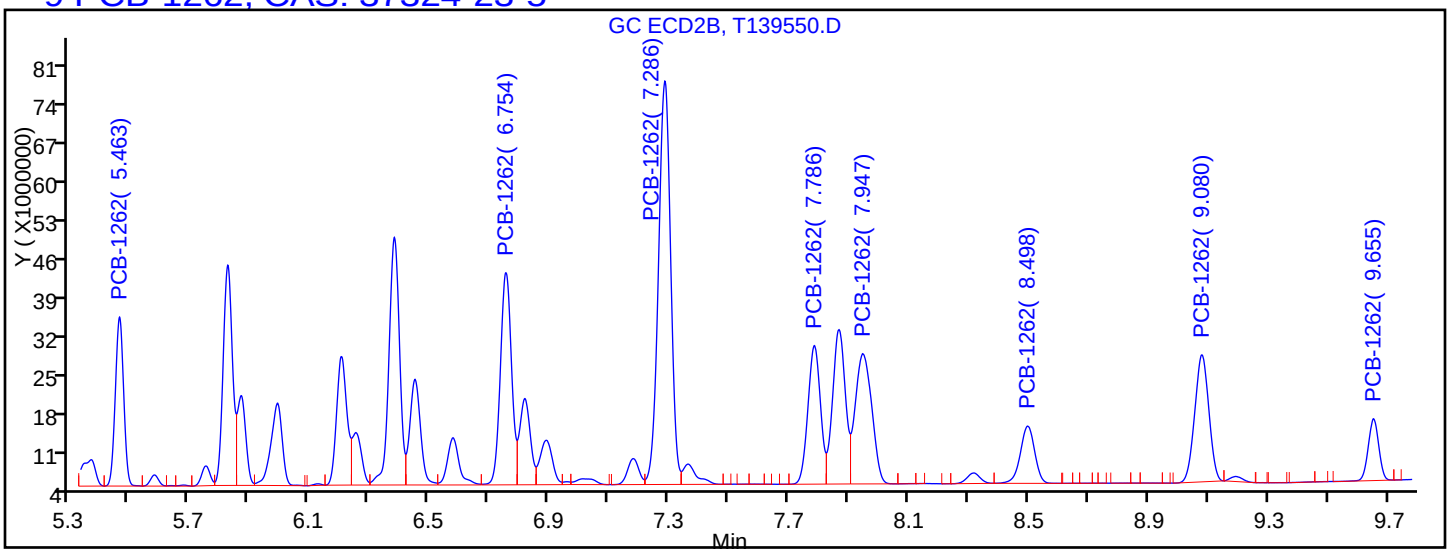
Operator ID: ALS Bottle#: 20 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

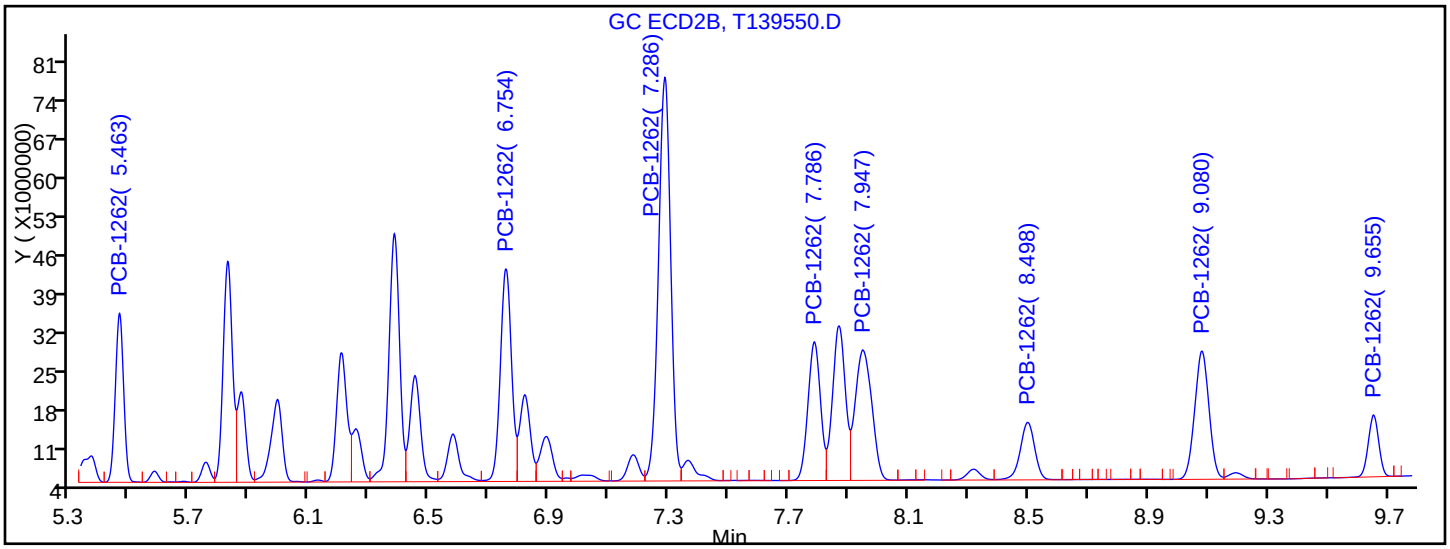
Column: Detector GC ECD2B

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.463	Response = 59105499
6.754	Response = 99679434
7.286	Response = 206854543
7.786	Response = 73140147
7.947	Response = 90181333
8.498	Response = 34430790
9.080	Response = 75056479
9.655	Response = 27278445



Manual Integration Results

5.463	Response = 59105499	
6.754	Response = 100144756	M
7.286	Response = 207195205	M
7.786	Response = 73296219	M
7.947	Response = 90514724	M
8.498	Response = 35124089	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:16 Calibration End Date: 01/18/2018 16:16 Calibration ID: 66177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/14	T139551.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0211					Ave		0.0211						20.0			0.9900
PCB-1268 Peak 2	0.0282					Ave		0.0282						20.0			0.9900
PCB-1268 Peak 3	0.1217					Ave		0.1217						20.0			0.9900
PCB-1268 Peak 4	0.1212					Ave		0.1212						20.0			0.9900
PCB-1268 Peak 5	0.1041					Ave		0.1041						20.0			0.9900
PCB-1268 Peak 6	0.0275					Ave		0.0275						20.0			0.9900
PCB-1268 Peak 7	0.0435					Ave		0.0435						20.0			0.9900
PCB-1268 Peak 8	0.3437					Ave		0.3437						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:16 Calibration End Date: 01/18/2018 16:16 Calibration ID: 66177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/14	T139551.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	23570665					1000				
PCB-1268 Peak 2	BNB	Ave	31594342					1000				
PCB-1268 Peak 3	BNB	Ave	136180065					1000				
PCB-1268 Peak 4	BNB	Ave	135612698					1000				
PCB-1268 Peak 5	BNB	Ave	116385736					1000				
PCB-1268 Peak 6	BNB	Ave	30803351					1000				
PCB-1268 Peak 7	BNB	Ave	48631907					1000				
PCB-1268 Peak 8	BNB	Ave	384459325					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 16:16:31 ALS Bottle#: 21 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-014
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:22 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:32:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.662	0.000	22370791	20.0	20.0	
2	1.394	1.394	0.000	34011625	20.0	20.0	M
						RPD = 0.00	
10 PCB-1268							
1	8.217	8.217	0.000	23570665	1000.0	1000.0	
1	8.837	8.837	0.000	31594342	1000.0	1000.0	
1	9.980	9.980	0.000	136180065	1000.0	1000.0	
1	10.037	10.037	0.000	135612698	1000.0	1000.0	
1	10.334	10.334	0.000	116385736	1000.0	1000.0	
1	10.441	10.441	0.000	30803351	1000.0	1000.0	
1	10.640	10.640	0.000	48631907	1000.0	1000.0	
1	10.944	10.944	0.000	384459325	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	6.384	6.384	0.000	43683088	1000.0	1000.0	
2	6.748	6.748	0.000	55666690	1000.0	1000.0	
2	7.869	7.869	0.000	241148167	1000.0	1000.0	
2	7.939	7.939	0.000	225284657	1000.0	1000.0	
2	8.317	8.317	0.000	195840415	1000.0	1000.0	
2	8.489	8.489	0.000	54450352	1000.0	1000.0	
2	9.080	9.080	0.000	86775007	1000.0	1000.0	
2	9.656	9.656	0.000	585713389	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

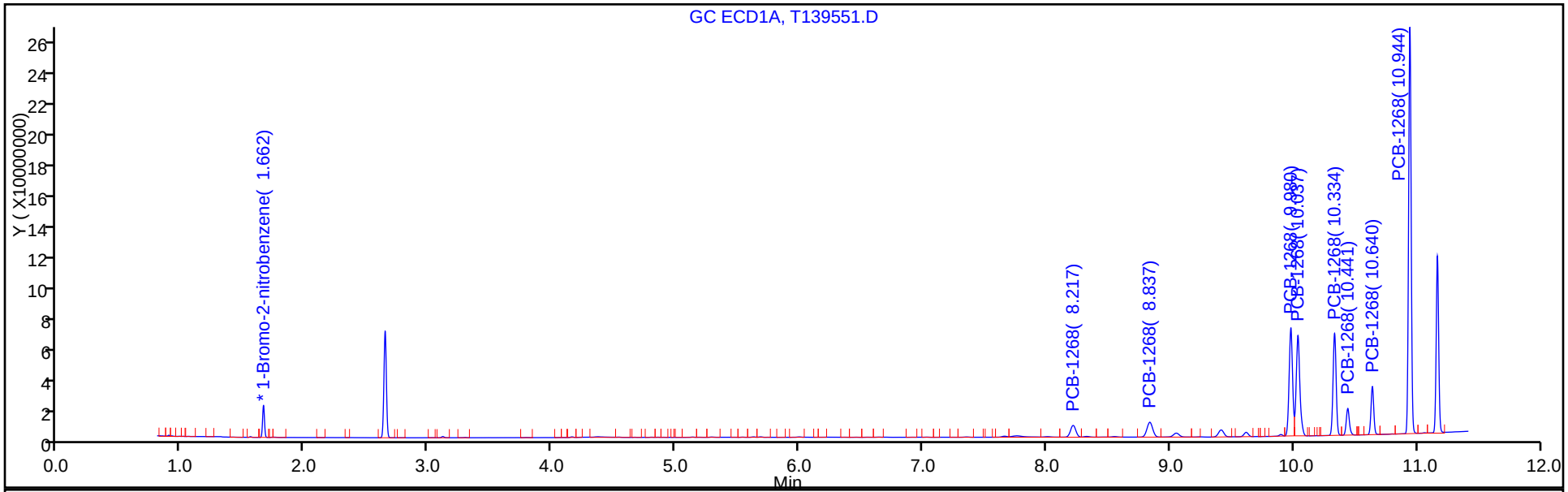
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

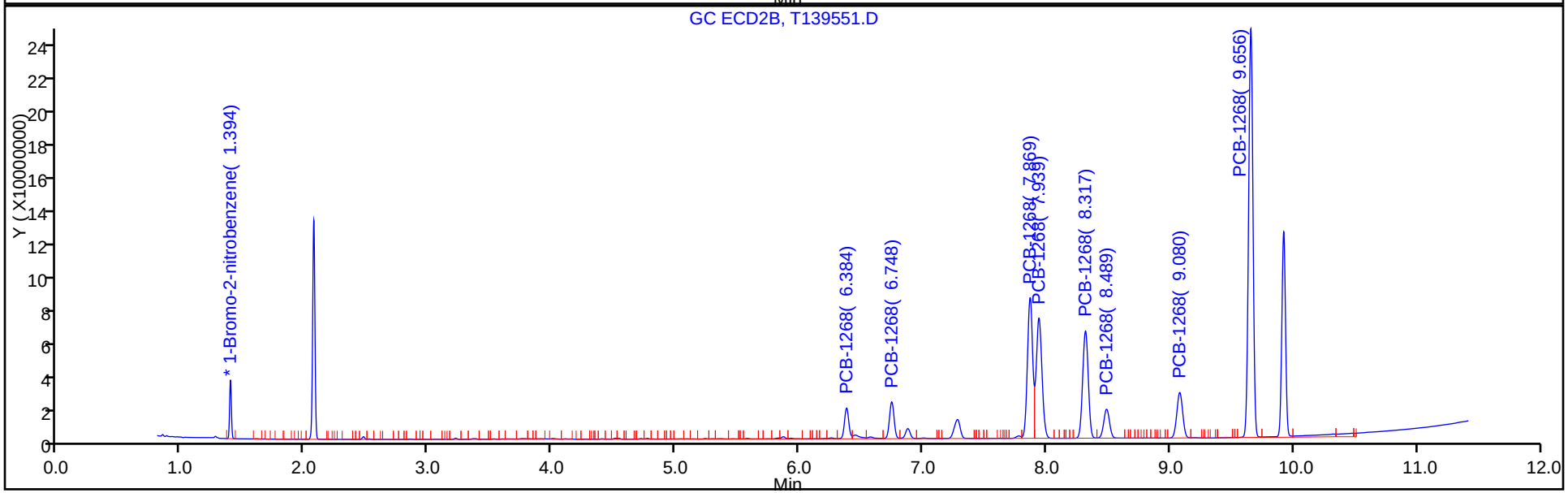
Report Date: 18-Jan-2018 15:59:24 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Injection Date:	18-Jan-2018 16:16:31	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:16 Calibration End Date: 01/18/2018 16:16 Calibration ID: 66178

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/14	T139551.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0257					Ave		0.0257						20.0			0.9900
PCB-1268 Peak 2	0.0327					Ave		0.0327						20.0			0.9900
PCB-1268 Peak 3	0.1418					Ave		0.1418						20.0			0.9900
PCB-1268 Peak 4	0.1325					Ave		0.1325						20.0			0.9900
PCB-1268 Peak 5	0.1152					Ave		0.1152						20.0			0.9900
PCB-1268 Peak 6	0.0320					Ave		0.0320						20.0			0.9900
PCB-1268 Peak 7	0.0510					Ave		0.0510						20.0			0.9900
PCB-1268 Peak 8	0.3444					Ave		0.3444						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 491295

SDG No.:

Instrument ID: CPESTGC11 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2018 16:16 Calibration End Date: 01/18/2018 16:16 Calibration ID: 66178

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-491295/14	T139551.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	43683088					1000				
PCB-1268 Peak 2	BNB	Ave	55666690					1000				
PCB-1268 Peak 3	BNB	Ave	241148167					1000				
PCB-1268 Peak 4	BNB	Ave	225284657					1000				
PCB-1268 Peak 5	BNB	Ave	195840415					1000				
PCB-1268 Peak 6	BNB	Ave	54450352					1000				
PCB-1268 Peak 7	BNB	Ave	86775007					1000				
PCB-1268 Peak 8	BNB	Ave	585713389					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2018 16:16:31 ALS Bottle#: 21 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0066276-014
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:59:22 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:32:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.662	1.662	0.000	22370791	20.0	20.0	
2	1.394	1.394	0.000	34011625	20.0	20.0	M
						RPD = 0.00	
10 PCB-1268							
1	8.217	8.217	0.000	23570665	1000.0	1000.0	
1	8.837	8.837	0.000	31594342	1000.0	1000.0	
1	9.980	9.980	0.000	136180065	1000.0	1000.0	
1	10.037	10.037	0.000	135612698	1000.0	1000.0	
1	10.334	10.334	0.000	116385736	1000.0	1000.0	
1	10.441	10.441	0.000	30803351	1000.0	1000.0	
1	10.640	10.640	0.000	48631907	1000.0	1000.0	
1	10.944	10.944	0.000	384459325	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	6.384	6.384	0.000	43683088	1000.0	1000.0	
2	6.748	6.748	0.000	55666690	1000.0	1000.0	
2	7.869	7.869	0.000	241148167	1000.0	1000.0	
2	7.939	7.939	0.000	225284657	1000.0	1000.0	
2	8.317	8.317	0.000	195840415	1000.0	1000.0	
2	8.489	8.489	0.000	54450352	1000.0	1000.0	
2	9.080	9.080	0.000	86775007	1000.0	1000.0	
2	9.656	9.656	0.000	585713389	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

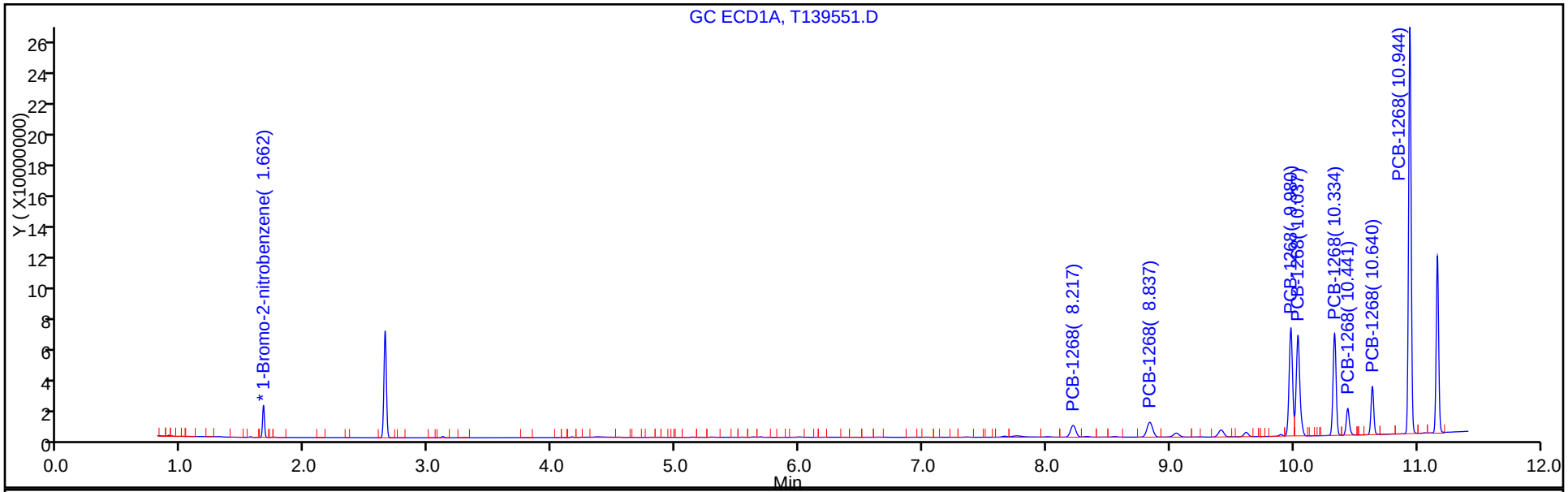
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

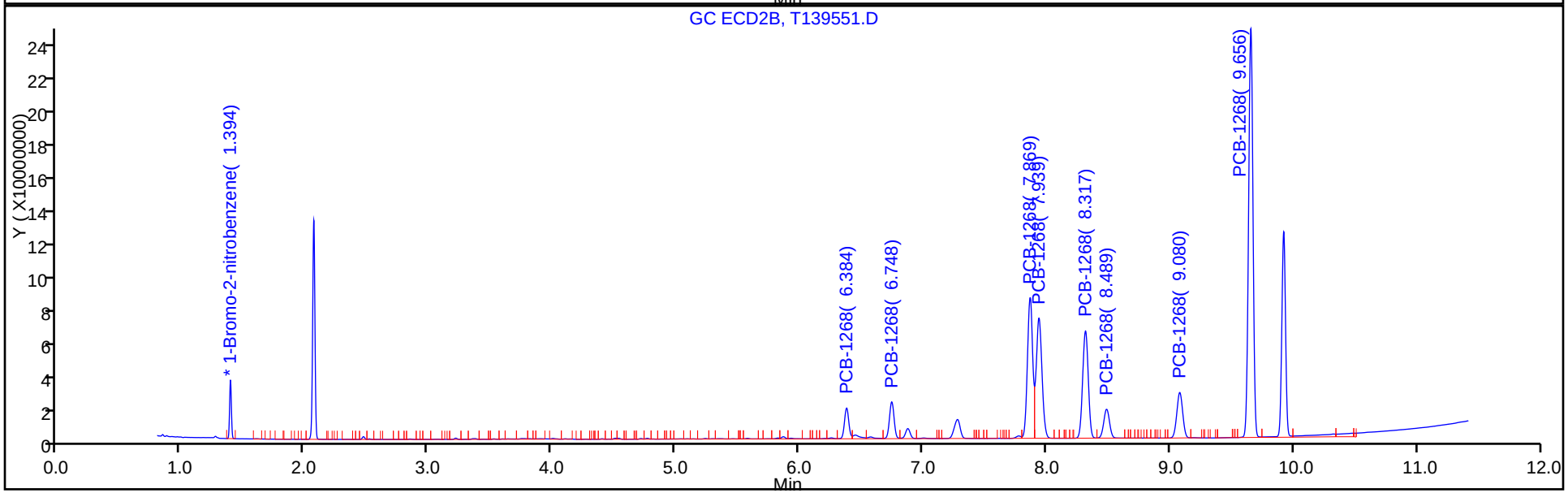
Report Date: 18-Jan-2018 15:59:24 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Injection Date:	18-Jan-2018 16:16:31	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





TestAmerica Edison

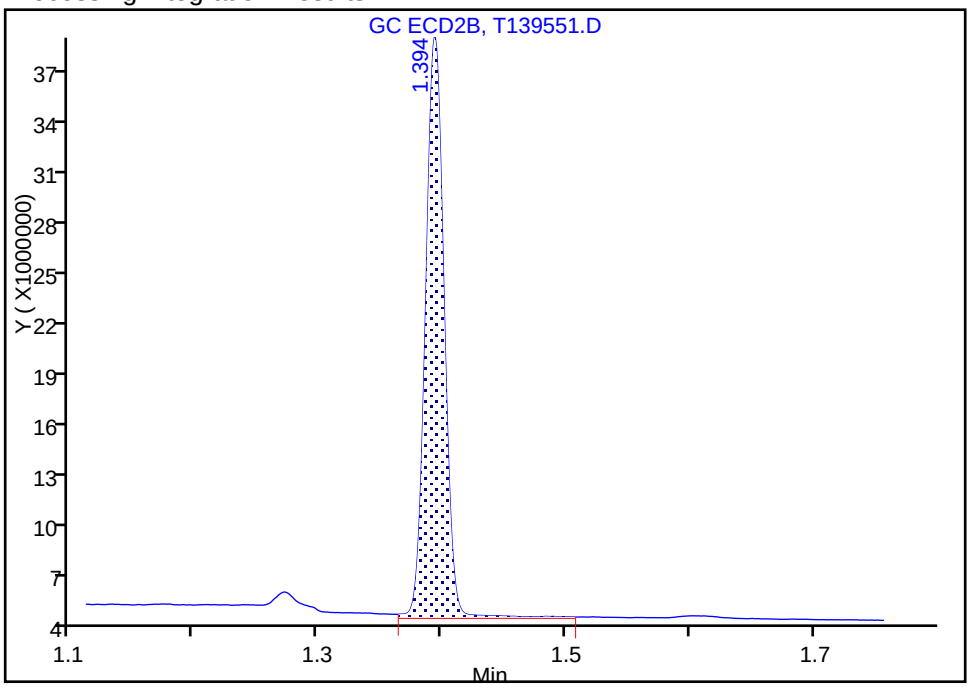
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D		
Injection Date:	18-Jan-2018 16:16:31	Instrument ID:	CPESTGC11
Lims ID:	IC 1268		
Client ID:			
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

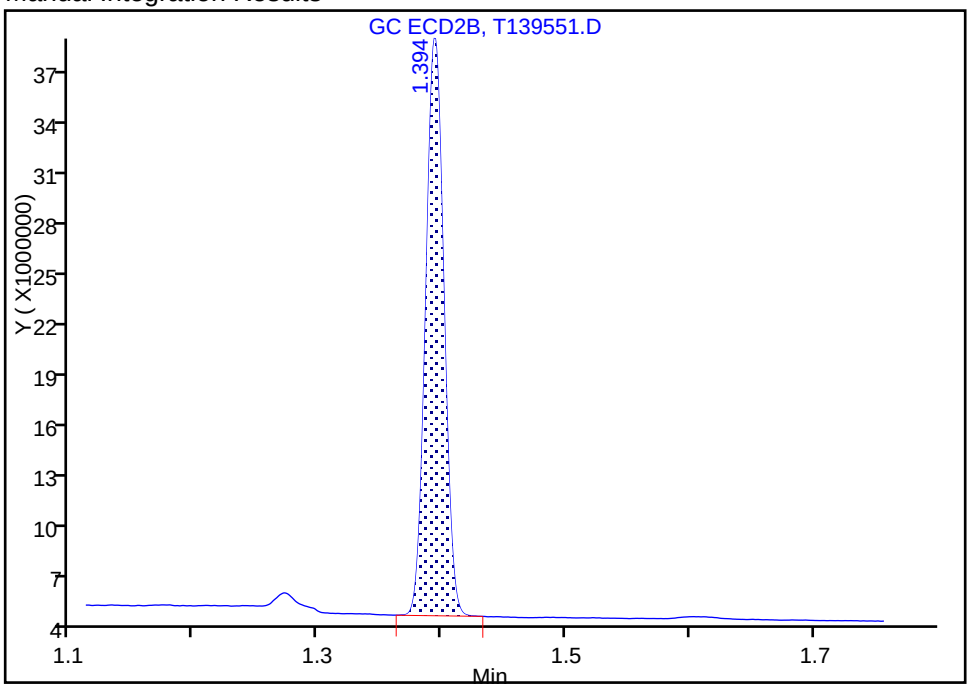
Processing Integration Results

RT: 1.39
Area: 35331446
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 34011625
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:33:24
Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 12:17 Calibration End Date: 12/27/2017 13:51 Calibration ID: 65786

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/2	7R011788.D
Level 2	IC 460-487360/3	7R011789.D
Level 3	IC 460-487360/4	7R011790.D
Level 4	IC 460-487360/5	7R011791.D
Level 5	IC 460-487360/6	7R011792.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0231	0.0211	0.0201	0.0193	0.0203	Ave		0.0208				7.0		20.0			0.9900
PCB-1016 Peak 2	0.0466	0.0442	0.0420	0.0401	0.0423	Ave		0.0430				5.7		20.0			0.9900
PCB-1016 Peak 3	0.0938	0.0823	0.0773	0.0738	0.0786	Ave		0.0812				9.5		20.0			0.9900
PCB-1016 Peak 4	0.0388	0.0357	0.0334	0.0319	0.0347	Ave		0.0349				7.5		20.0			0.9900
PCB-1016 Peak 5	0.0284	0.0275	0.0260	0.0251	0.0279	Ave		0.0270				5.1		20.0			0.9900
PCB-1016 Peak 6	0.0328	0.0264	0.0248	0.0238	0.0254	Ave		0.0266				13.3		20.0			0.9900
PCB-1016 Peak 7	0.0278	0.0278	0.0272	0.0264	0.0286	Ave		0.0276				3.0		20.0			0.9900
PCB-1016 Peak 8	0.0323	0.0266	0.0252	0.0239	0.0253	Ave		0.0267				12.3		20.0			0.9900
PCB-1260 Peak 1	0.0290	0.0268	0.0256	0.0247	0.0265	Ave		0.0265				6.1		20.0			0.9900
PCB-1260 Peak 2	0.0599	0.0568	0.0533	0.0512	0.0544	Ave		0.0551				6.1		20.0			0.9900
PCB-1260 Peak 3	0.0716	0.0677	0.0640	0.0613	0.0655	Ave		0.0660				5.9		20.0			0.9900
PCB-1260 Peak 4	0.0490	0.0476	0.0462	0.0432	0.0485	Ave		0.0469				5.0		20.0			0.9900
PCB-1260 Peak 5	0.0445	0.0416	0.0401	0.0389	0.0425	Ave		0.0415				5.2		20.0			0.9900
PCB-1260 Peak 6	0.0954	0.0936	0.0915	0.0888	0.0972	Ave		0.0933				3.5		20.0			0.9900
PCB-1260 Peak 7	0.0616	0.0676	0.0666	0.0648	0.0708	Ave		0.0663				5.1		20.0			0.9900
PCB-1260 Peak 8	0.0271	0.0236	0.0233	0.0227	0.0247	Ave		0.0243				7.2		20.0			0.9900
Tetrachloro-m-xylene	0.8590	0.8801	0.8843	0.9011	1.0254	Ave		0.9100				7.3		20.0			0.9900
DCB Decachlorobiphenyl	0.7380	0.7009	0.6698	0.6696	0.7535	Ave		0.7064				5.5		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 12:17 Calibration End Date: 12/27/2017 13:51 Calibration ID: 65786

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/2	7R011788.D
Level 2	IC 460-487360/3	7R011789.D
Level 3	IC 460-487360/4	7R011790.D
Level 4	IC 460-487360/5	7R011791.D
Level 5	IC 460-487360/6	7R011792.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	2725	23807	45075	63309	110696	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	5499	49739	93893	131903	230918	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	11073	92751	172992	242698	428515	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	4585	40160	74715	104985	189448	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	3350	30967	58173	82628	152319	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	3868	29702	55469	78277	138643	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	3282	31361	60856	86664	155929	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	3813	29980	56396	78649	137934	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	3425	30200	57329	81235	144290	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	7069	63997	119217	168320	296611	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	8455	76251	143278	201391	357056	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	5786	53672	103383	142004	264238	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	5248	46886	89755	127934	231967	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	11258	105421	204804	291890	529910	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	7278	76102	149097	213040	386313	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	3203	26614	52202	74461	134600	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	25353	99135	197832	296201	447358	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	21781	78951	149852	220102	328748	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Dec-2017 12:17:36 ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:17 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 13:16:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	47222	20.0	20.0	
2	2.950	2.950	0.000	24535	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.343	5.347	-0.004	25353	12.5	11.8	M
2	4.363	4.363	0.000	13670	12.5	9.52	M
						RPD = 21.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.377	6.380	-0.003	2725	50.0	55.5	M
1	7.160	7.160	0.000	5499	50.0	54.1	
1	7.987	7.987	0.000	11073	50.0	57.8	M
1	8.227	8.230	-0.003	4585	50.0	55.6	M
1	8.407	8.407	0.000	3350	50.0	52.6	M
1	9.057	9.060	-0.003	3868	50.0	61.5	M
1	9.267	9.267	0.000	3282	50.0	50.4	M
1	9.783	9.783	0.000	3813	50.0	60.6	M
		Average of Peak Amounts =				56.0	
2	5.097	5.097	0.000	1966	50.0	53.2	M
2	5.757	5.753	0.004	3899	50.0	54.3	M
2	6.103	6.103	0.000	2091	50.0	48.7	M
2	6.573	6.573	0.000	6234	50.0	44.8	M
2	6.807	6.807	0.000	2811	50.0	50.3	M
2	6.910	6.910	0.000	1604	50.0	47.3	M
2	7.517	7.517	0.000	3033	50.0	51.6	M
2	8.163	8.163	0.000	1695	50.0	51.3	M
		Average of Peak Amounts =				50.2	
						RPD = 10.99	
8 PCB-1260							M
1	11.067	11.070	-0.003	3425	50.0	54.7	M
1	11.427	11.427	0.000	7069	50.0	54.3	M
1	11.973	11.973	0.000	8455	50.0	54.2	M
1	13.243	13.247	-0.004	5786	50.0	52.2	M
1	14.003	14.007	-0.004	5248	50.0	53.5	M
1	14.647	14.650	-0.003	11258	50.0	51.1	M
1	15.463	15.467	-0.004	7278	50.0	46.5	M
1	16.477	16.477	0.000	3203	50.0	55.9	M
		Average of Peak Amounts =				52.8	
2	9.557	9.553	0.004	4535	50.0	51.3	M
2	10.477	10.480	-0.003	6310	50.0	44.8	M
2	10.703	10.703	0.000	3246	50.0	48.5	M
2	11.190	11.190	0.000	3311	50.0	47.7	M
2	11.937	11.937	0.000	7211	50.0	45.2	M
2	12.693	12.693	0.000	3492	50.0	43.1	M
2	12.950	12.953	-0.003	1963	50.0	48.6	M
2	14.363	14.367	-0.004	1670	50.0	43.5	M
		Average of Peak Amounts =				46.6	
						RPD = 12.51	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	21781	12.5	13.1	
2	15.433	15.433	0.000	17973	12.5	11.4	M
						RPD = 13.30	
S 12 Polychlorinated biphenyls, Total							
1						108.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

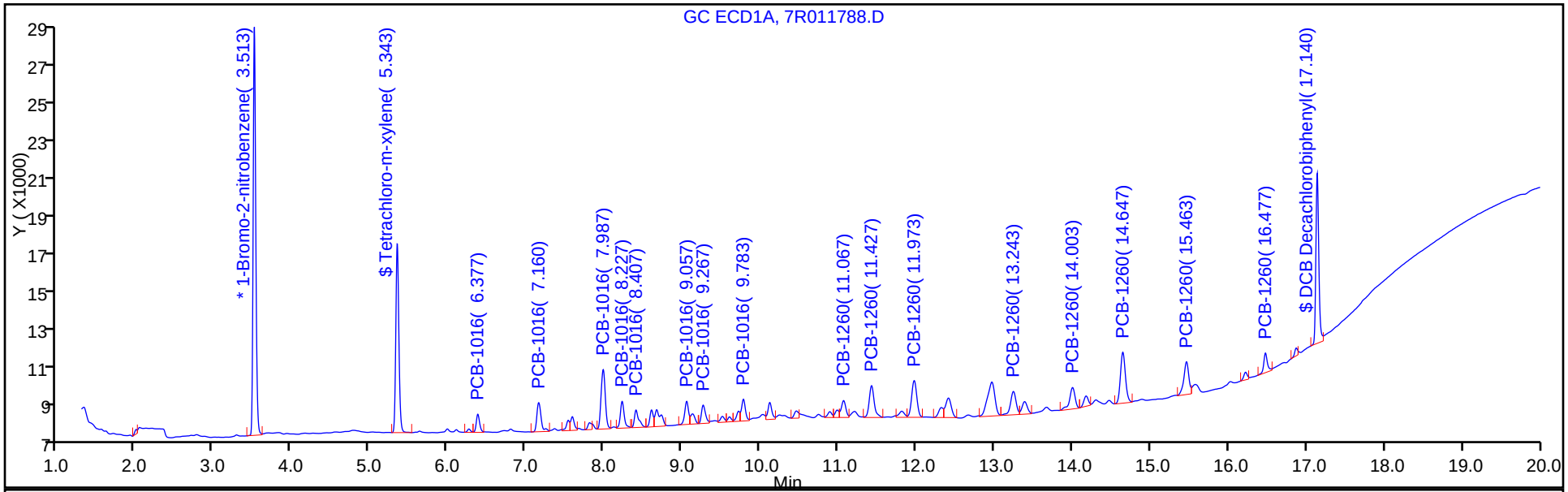
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

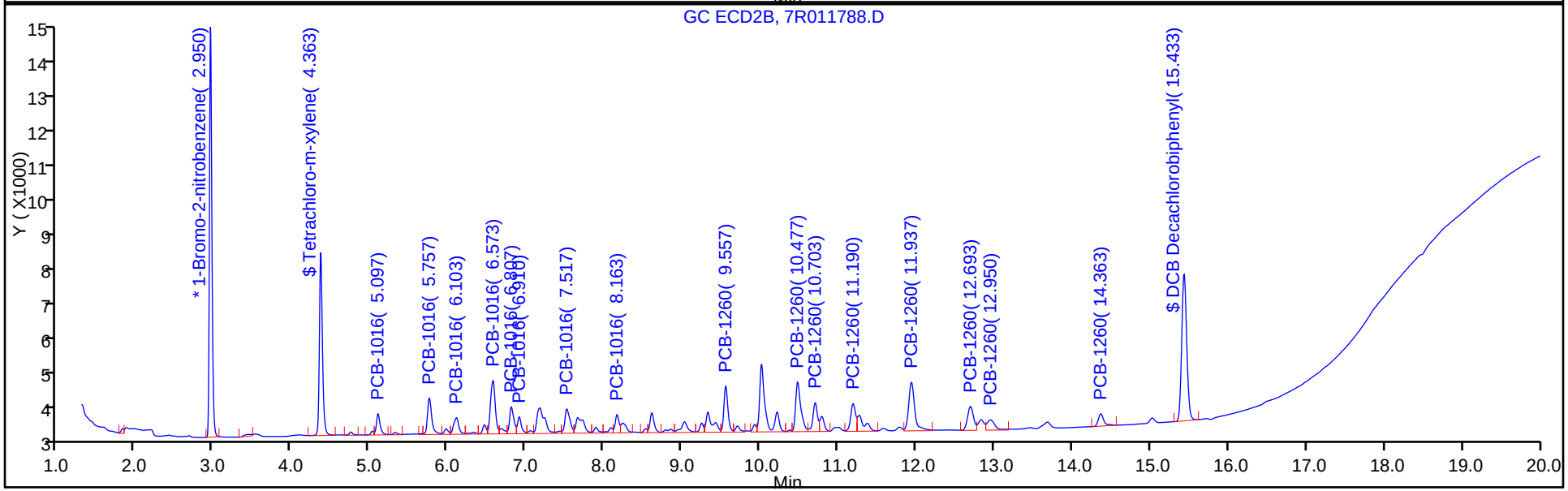
Report Date: 28-Dec-2017 12:45:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date:	27-Dec-2017 12:17:36	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





TestAmerica Edison

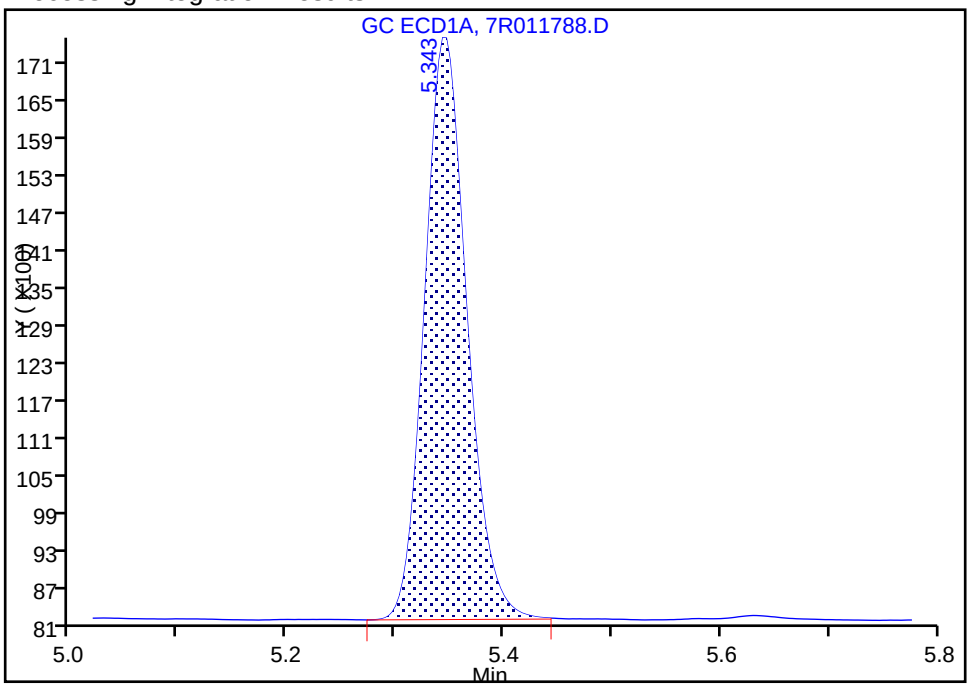
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D
Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7
Lims ID: IC PCB 1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD1A

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

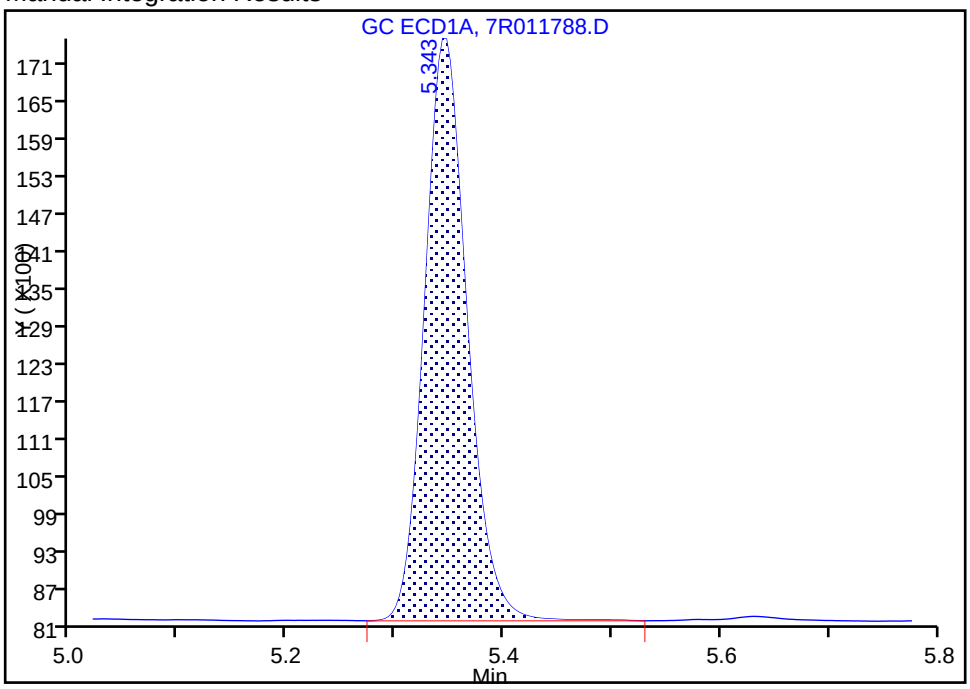
Processing Integration Results

RT: 5.34
Area: 25202
Amount: 11.743099
Amount Units: ug/l



Manual Integration Results

RT: 5.34
Area: 25353
Amount: 11.800175
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:24:36
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:45:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

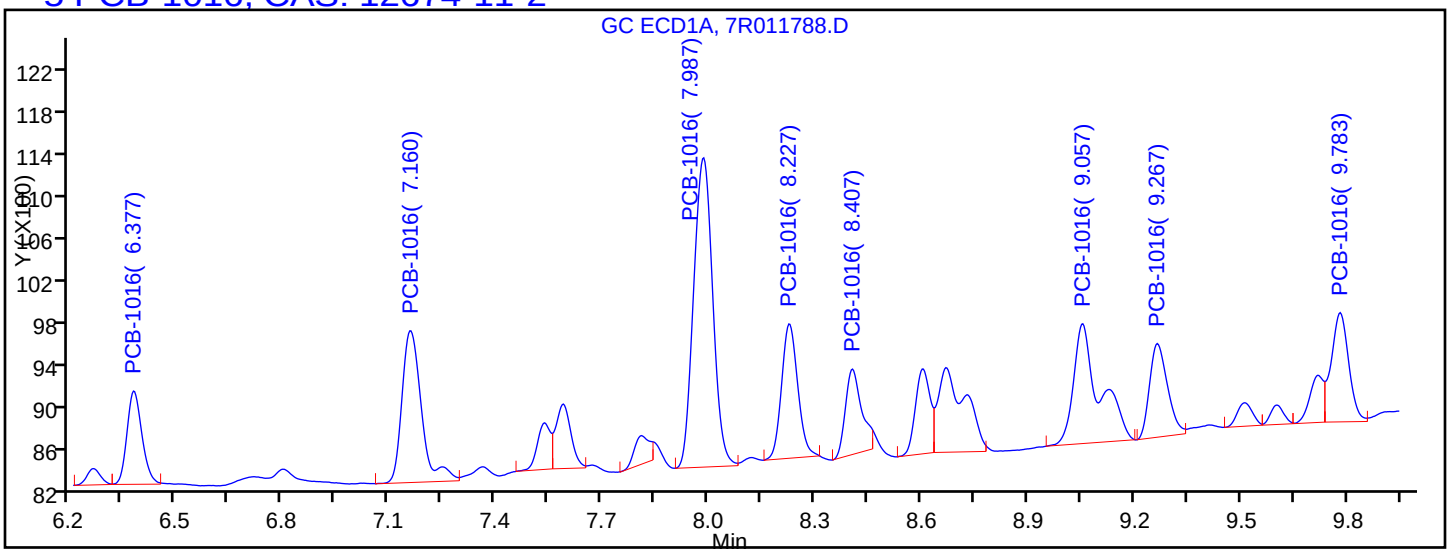
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

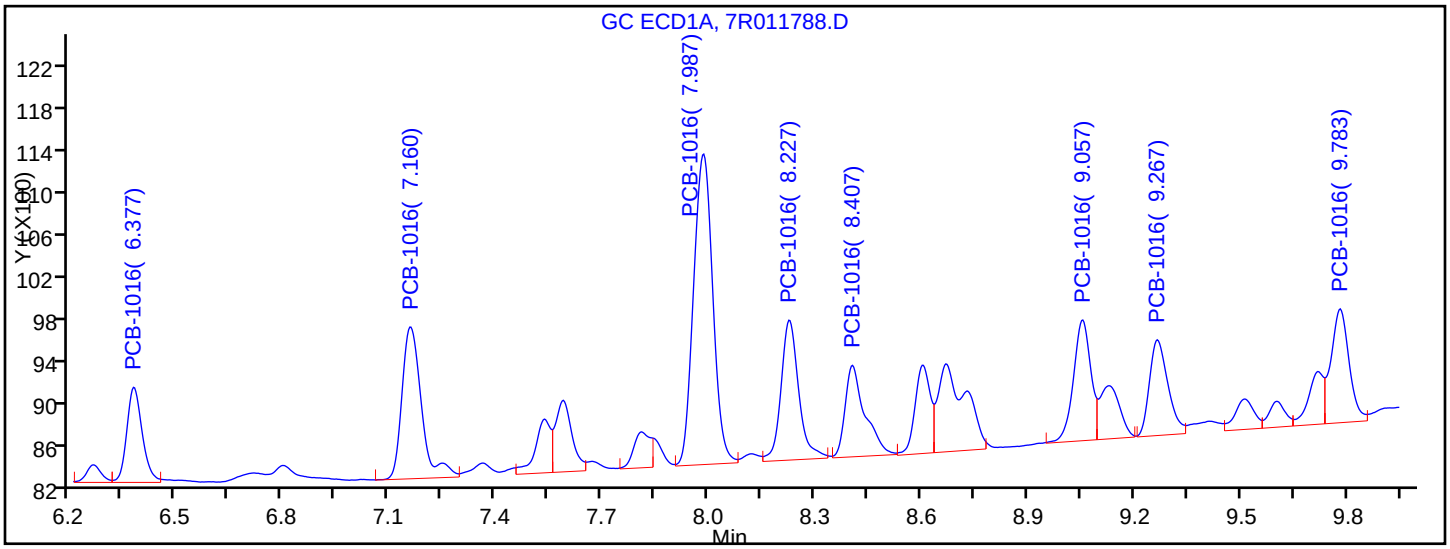
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

6.377	Response = 2582
7.160	Response = 5499
7.987	Response = 10957
8.227	Response = 4021
8.407	Response = 2566
9.057	Response = 5700
9.267	Response = 3105
9.783	Response = 3525



Manual Integration Results

6.377	Response = 2725	M
7.160	Response = 5499	
7.987	Response = 11073	M
8.227	Response = 4585	M
8.407	Response = 3350	M
9.057	Response = 3868	M

Report Date: 28-Dec-2017 12:45:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

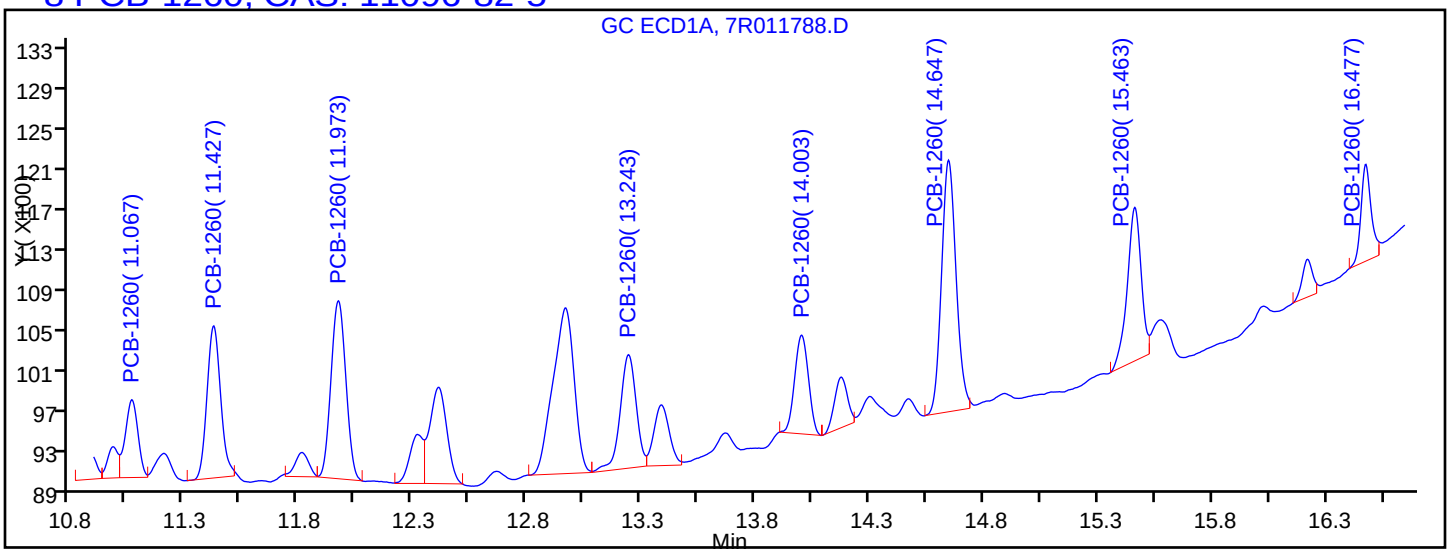
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

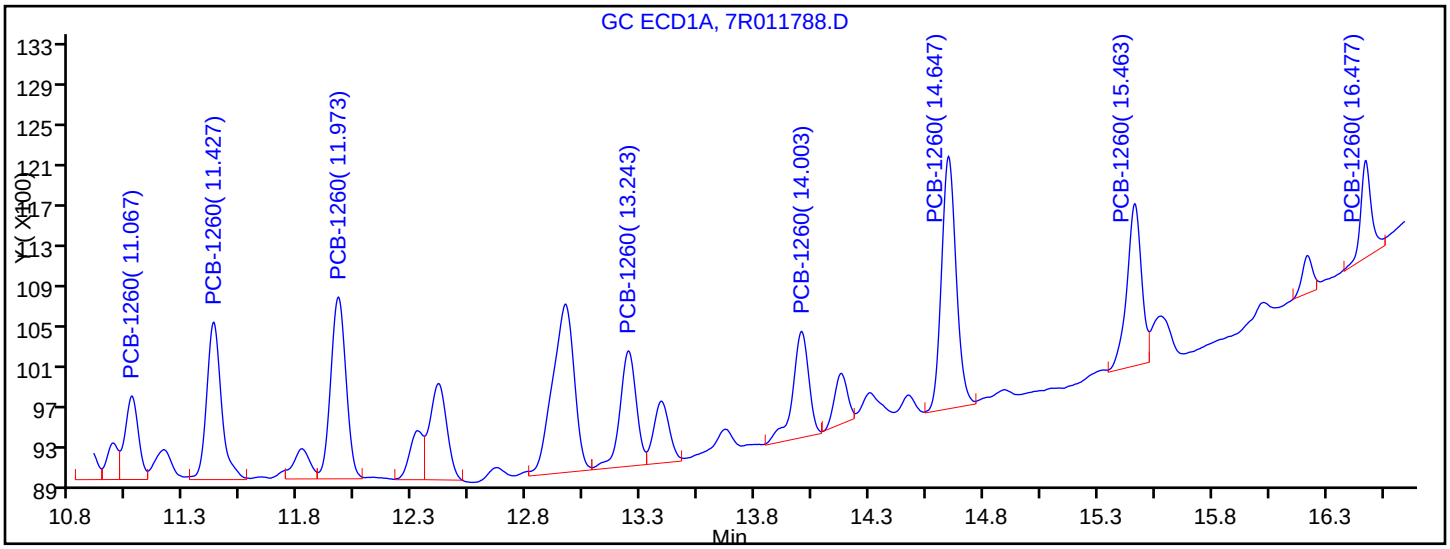
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

11.067	Response = 3003
11.427	Response = 6285
11.973	Response = 8018
13.243	Response = 5549
14.003	Response = 4120
14.647	Response = 11097
15.463	Response = 6501
16.477	Response = 2995



Manual Integration Results

11.067	Response = 3425	M
11.427	Response = 7069	M
11.973	Response = 8455	M
13.243	Response = 5786	M
14.003	Response = 5248	M
14.647	Response = 11258	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Dec-2017 12:41:07 ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:24 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 13:04:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	45056	20.0	20.0	
2	2.950	2.950	0.000	23347	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.347	5.347	0.000	99135	50.0	48.4	
2	4.363	4.363	0.000	63891	50.0	46.7	M
						RPD = 3.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	23807	500.0	508.4	
1	7.160	7.160	0.000	49739	500.0	513.0	
1	7.987	7.987	0.000	92751	500.0	507.2	M
1	8.230	8.230	0.000	40160	500.0	510.6	M
1	8.407	8.407	0.000	30967	500.0	509.3	M
1	9.057	9.060	-0.003	29702	500.0	495.1	M
1	9.267	9.267	0.000	31361	500.0	505.1	M
1	9.783	9.783	0.000	29980	500.0	499.0	M
		Average of Peak Amounts =				506.0	
2	5.097	5.097	0.000	17611	500.0	500.5	M
2	5.753	5.753	0.000	34453	500.0	504.0	M
2	6.103	6.103	0.000	20210	500.0	494.5	M
2	6.573	6.573	0.000	67205	500.0	507.1	M
2	6.807	6.807	0.000	26212	500.0	493.3	M
2	6.910	6.910	0.000	15428	500.0	478.4	M
2	7.517	7.517	0.000	27516	500.0	492.0	M
2	8.160	8.163	-0.003	15943	500.0	507.0	M
		Average of Peak Amounts =				497.1	
						RPD = 1.77	
8 PCB-1260							M
1	11.070	11.070	0.000	30200	500.0	505.4	M
1	11.427	11.427	0.000	63997	500.0	515.4	M
1	11.973	11.973	0.000	76251	500.0	512.7	M
1	13.243	13.247	-0.004	53672	500.0	507.9	M
1	14.003	14.007	-0.004	46886	500.0	501.1	M
1	14.647	14.650	-0.003	105421	500.0	501.6	M
1	15.467	15.467	0.000	76102	500.0	509.5	
1	16.477	16.477	0.000	26614	500.0	486.5	
		Average of Peak Amounts =				505.0	
2	9.553	9.553	0.000	41985	500.0	498.8	
2	10.477	10.480	-0.003	65952	500.0	491.8	
2	10.700	10.703	-0.003	32335	500.0	508.0	M
2	11.187	11.190	-0.003	32651	500.0	494.4	M
2	11.937	11.937	0.000	73575	500.0	485.2	
2	12.693	12.693	0.000	36482	500.0	473.6	
2	12.950	12.953	-0.003	18515	500.0	481.8	
2	14.363	14.367	-0.004	17915	500.0	490.0	
		Average of Peak Amounts =				490.4	
						RPD = 2.93	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	78951	50.0	49.6	
2	15.433	15.433	0.000	72762	50.0	48.6	M
						RPD = 1.99	
S 12 Polychlorinated biphenyls, Total							
1						1011.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

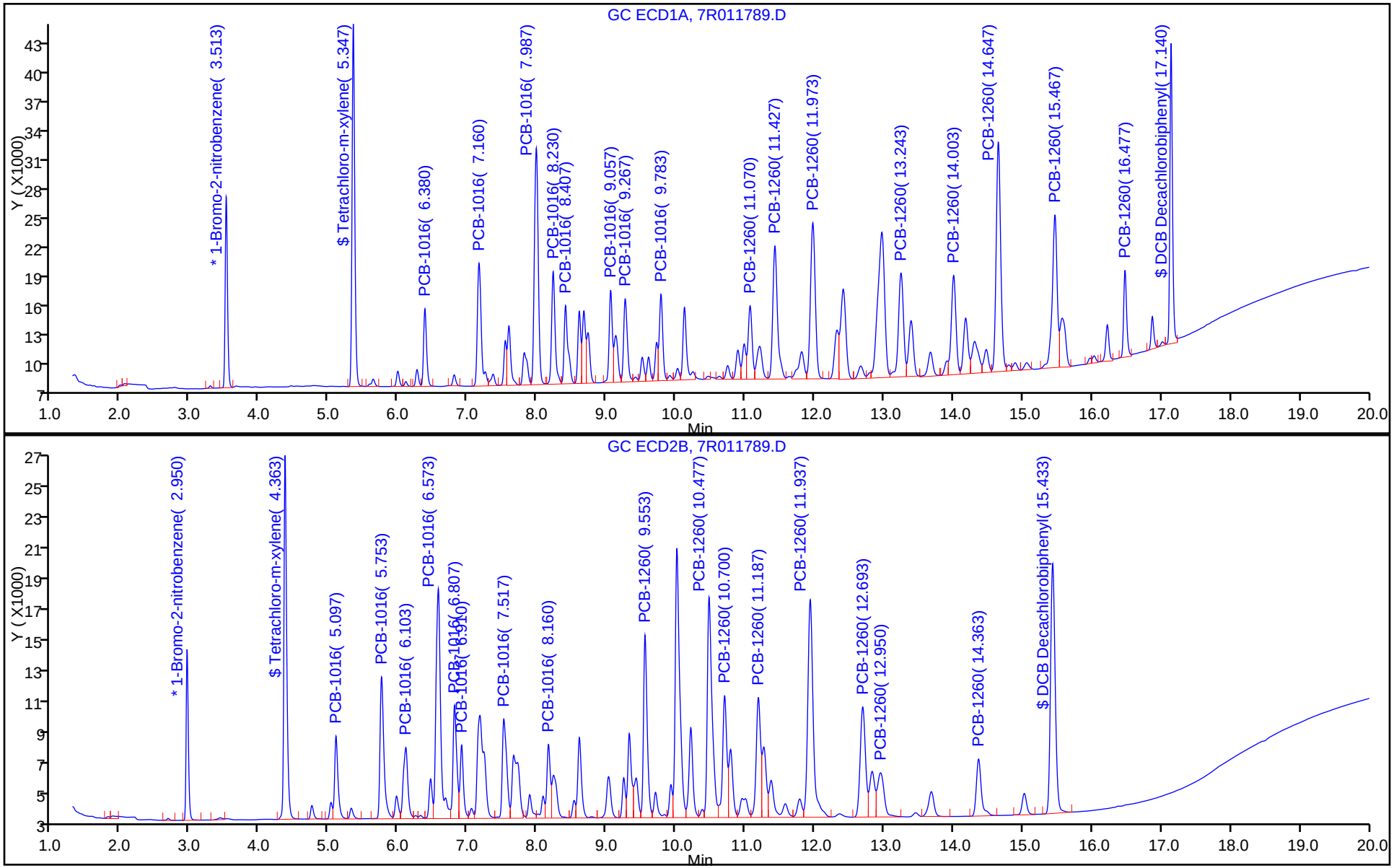
SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:26 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

Injection Date:	27-Dec-2017 12:41:07	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:45:26 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

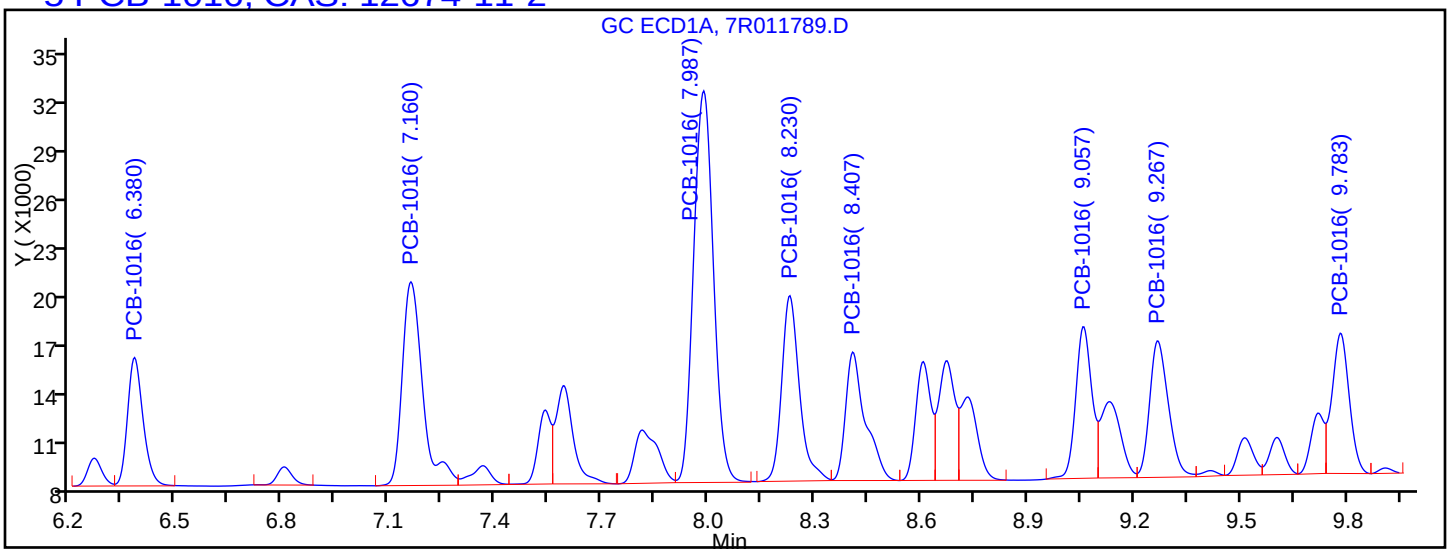
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

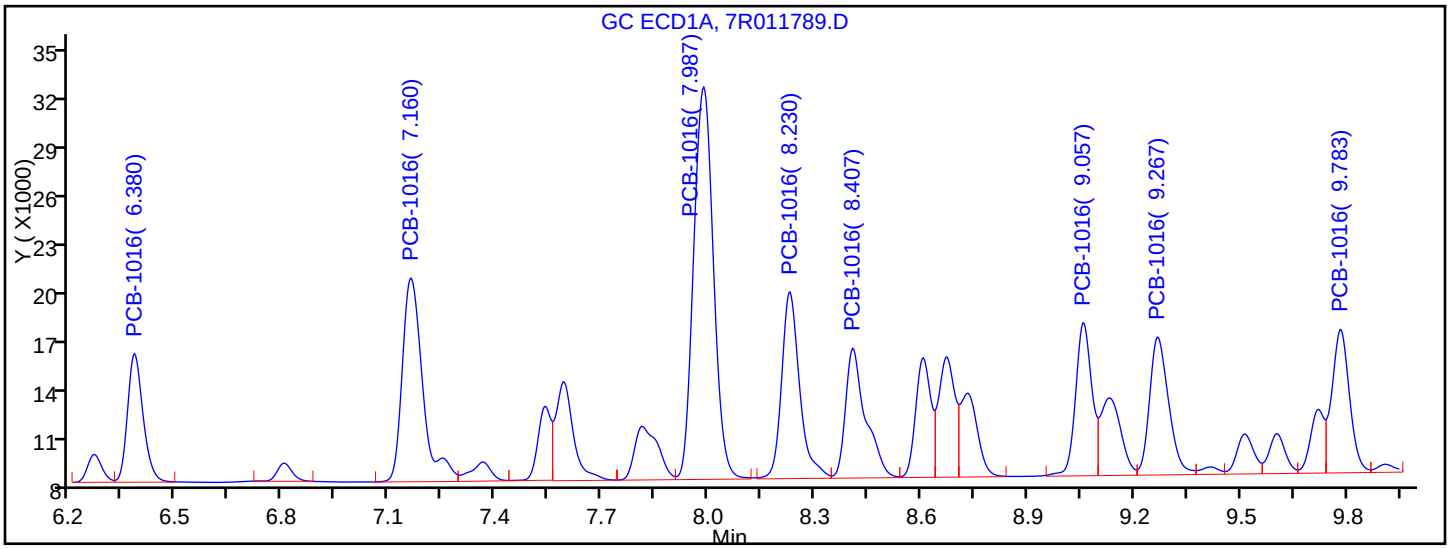
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

6.380	Response = 23807
7.160	Response = 49739
7.987	Response = 92264
8.230	Response = 39202
8.407	Response = 30161
9.057	Response = 29082
9.267	Response = 30521
9.783	Response = 28608



Manual Integration Results

6.380	Response = 23807	
7.160	Response = 49739	
7.987	Response = 92751	M
8.230	Response = 40160	M
8.407	Response = 30967	M
9.057	Response = 29702	M

Report Date: 28-Dec-2017 12:45:26 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

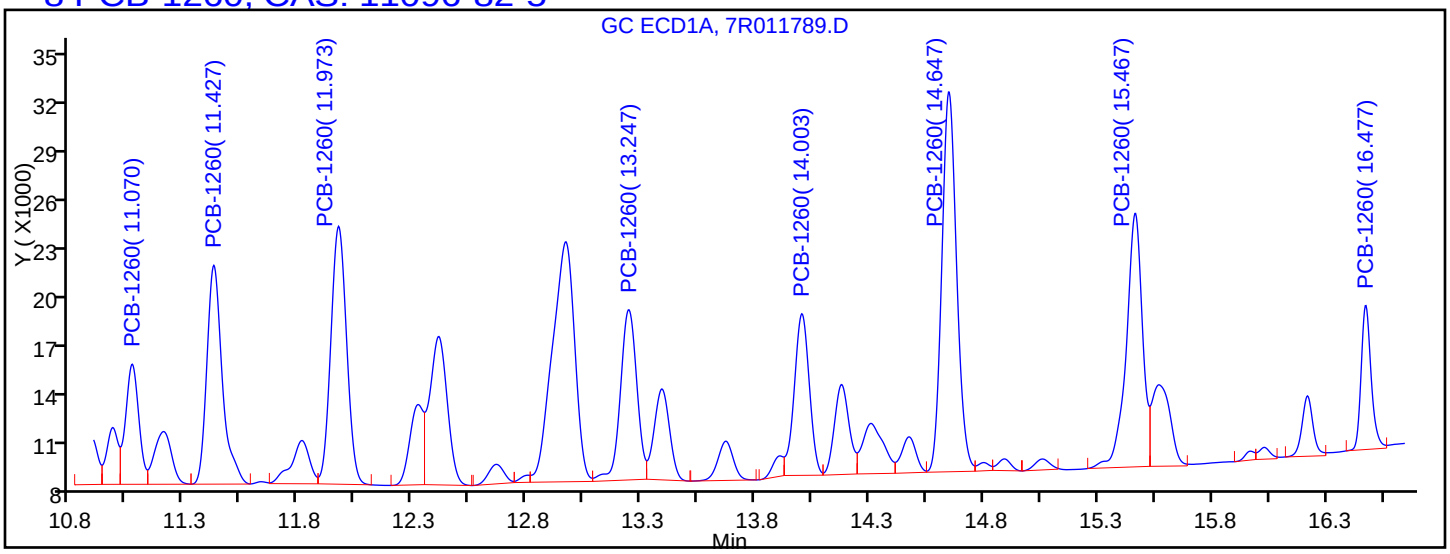
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

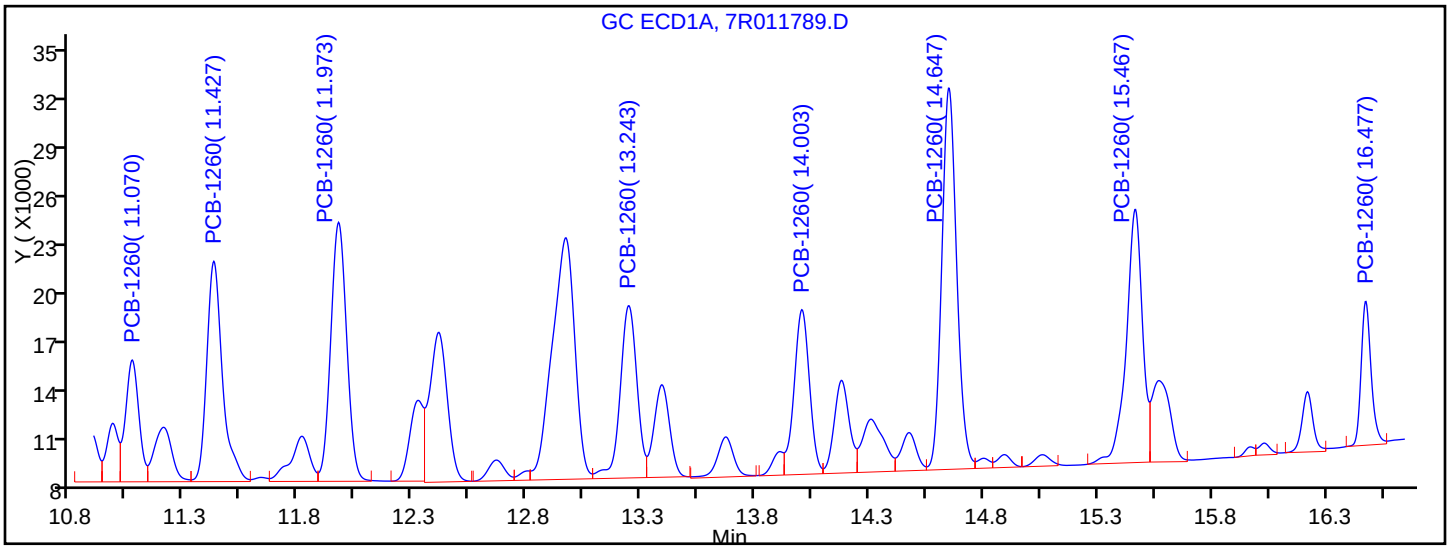
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

11.070	Response = 29408
11.427	Response = 62320
11.973	Response = 75152
13.247	Response = 51841
14.003	Response = 44846
14.647	Response = 103975
15.467	Response = 76102
16.477	Response = 26614



Manual Integration Results

11.070	Response = 30200	M
11.427	Response = 63997	M
11.973	Response = 76251	M
13.243	Response = 53672	M
14.003	Response = 46886	M
14.647	Response = 105421	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 27-Dec-2017 13:04:44 ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-004
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:29 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:14:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	44745	20.0	20.0	
2	2.950	2.950	0.000	23354	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.347	5.347	0.000	197832	100.0	97.2	
2	4.363	4.363	0.000	138199	100.0	101.1	
						RPD = 3.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	45075	1000.0	969.4	
1	7.160	7.160	0.000	93893	1000.0	975.2	
1	7.987	7.987	0.000	172992	1000.0	952.6	
1	8.230	8.230	0.000	74715	1000.0	956.6	
1	8.407	8.407	0.000	58173	1000.0	963.5	
1	9.060	9.060	0.000	55469	1000.0	930.9	
1	9.267	9.267	0.000	60856	1000.0	987.0	
1	9.783	9.783	0.000	56396	1000.0	945.2	
		Average of Peak Amounts =				960.0	
2	5.097	5.097	0.000	34359	1000.0	976.3	M
2	5.753	5.753	0.000	66640	1000.0	974.5	M
2	6.103	6.103	0.000	40471	1000.0	989.9	M
2	6.573	6.573	0.000	134262	1000.0	1012.8	M
2	6.807	6.807	0.000	52845	1000.0	994.2	M
2	6.910	6.910	0.000	31265	1000.0	969.1	M
2	7.517	7.517	0.000	54614	1000.0	976.3	M
2	8.163	8.163	0.000	31167	1000.0	990.8	M
		Average of Peak Amounts =				985.5	
						RPD = 2.61	
8 PCB-1260							M
1	11.070	11.070	0.000	57329	1000.0	966.1	
1	11.427	11.427	0.000	119217	1000.0	966.8	
1	11.973	11.973	0.000	143278	1000.0	970.1	
1	13.247	13.247	0.000	103383	1000.0	985.2	
1	14.007	14.007	0.000	89755	1000.0	966.0	
1	14.650	14.650	0.000	204804	1000.0	981.3	
1	15.467	15.467	0.000	149097	1000.0	1005.2	
1	16.477	16.477	0.000	52202	1000.0	960.8	
		Average of Peak Amounts =				975.2	
2	9.553	9.553	0.000	83083	1000.0	986.7	M
2	10.480	10.480	0.000	135114	1000.0	1007.3	M
2	10.703	10.703	0.000	63550	1000.0	998.0	M
2	11.190	11.190	0.000	64846	1000.0	981.5	M
2	11.937	11.937	0.000	152168	1000.0	1003.1	M
2	12.693	12.693	0.000	77456	1000.0	1005.3	M
2	12.953	12.953	0.000	37389	1000.0	972.6	
2	14.367	14.367	0.000	36619	1000.0	1001.3	
		Average of Peak Amounts =				994.5	
						RPD = 1.96	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	149852	100.0	94.8	
2	15.433	15.433	0.000	147547	100.0	98.6	M
						RPD = 3.90	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

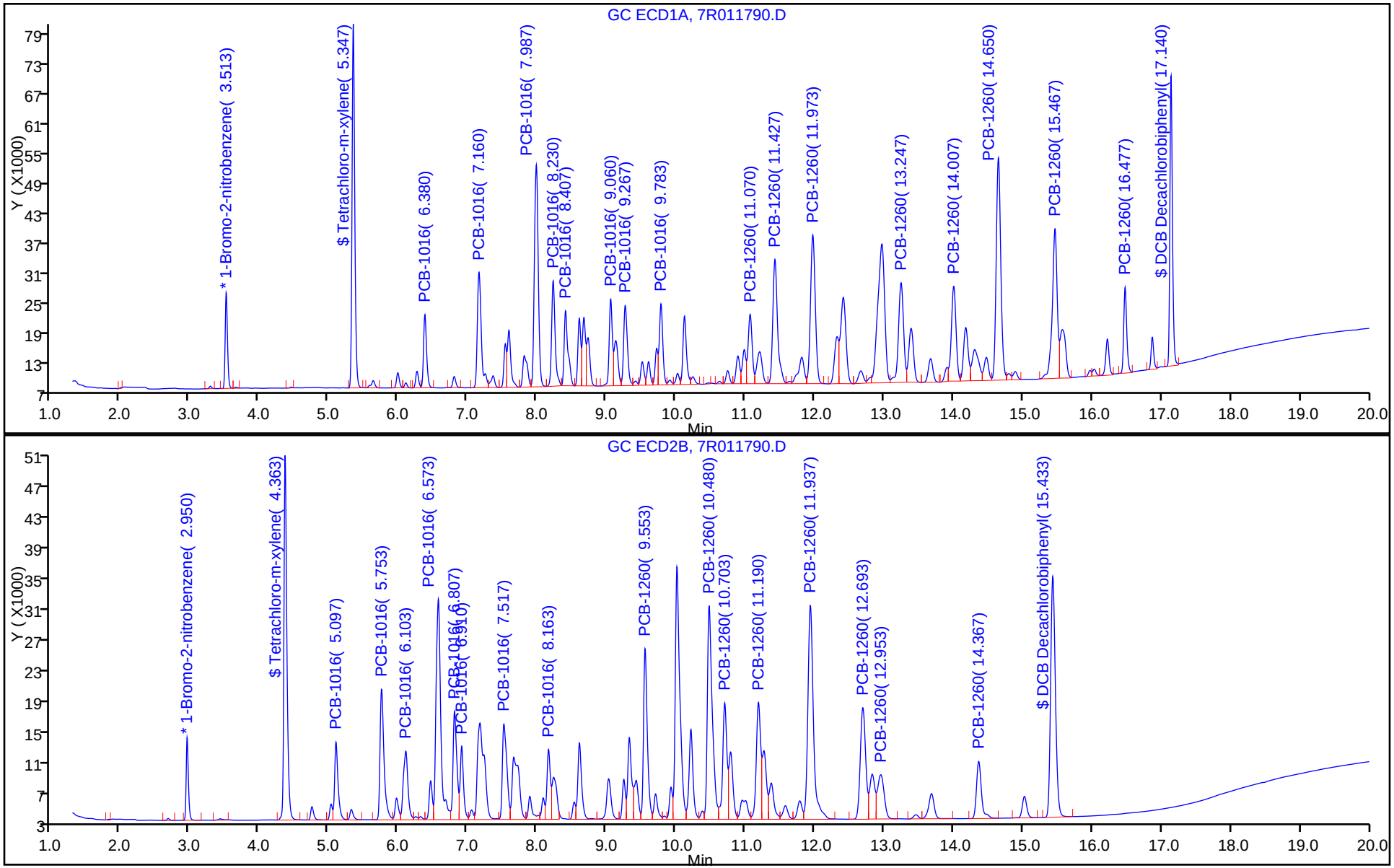
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:31 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D

Injection Date:	27-Dec-2017 13:04:44	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Dec-2017 13:28:15 ALS Bottle#: 8 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-005
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:39 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:15:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43830	20.0	20.0	
2	2.950	2.950	0.000	23108	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.347	5.347	0.000	296201	150.0	148.5	
2	4.363	4.363	0.000	215286	150.0	159.1	
						RPD = 6.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.377	6.380	-0.003	63309	1500.0	1389.9	
1	7.160	7.160	0.000	131903	1500.0	1398.6	
1	7.987	7.987	0.000	242698	1500.0	1364.3	
1	8.230	8.230	0.000	104985	1500.0	1372.2	
1	8.407	8.407	0.000	82628	1500.0	1397.1	
1	9.057	9.060	-0.003	78277	1500.0	1341.2	
1	9.267	9.267	0.000	86664	1500.0	1434.9	
1	9.783	9.783	0.000	78649	1500.0	1345.7	
		Average of Peak Amounts =				1380.5	
2	5.097	5.097	0.000	49393	1500.0	1418.4	
2	5.753	5.753	0.000	94718	1500.0	1399.8	M
2	6.103	6.103	0.000	58741	1500.0	1452.0	M
2	6.573	6.573	0.000	194796	1500.0	1485.1	M
2	6.803	6.807	-0.004	75689	1500.0	1439.1	M
2	6.910	6.910	0.000	47162	1500.0	1477.4	M
2	7.517	7.517	0.000	78982	1500.0	1426.9	M
2	8.160	8.163	-0.003	43864	1500.0	1409.3	M
		Average of Peak Amounts =				1438.5	
						RPD = 4.12	
8 PCB-1260							M
1	11.070	11.070	0.000	81235	1500.0	1397.6	
1	11.427	11.427	0.000	168320	1500.0	1393.6	
1	11.973	11.973	0.000	201391	1500.0	1392.0	
1	13.247	13.247	0.000	142004	1500.0	1381.5	
1	14.003	14.007	-0.004	127934	1500.0	1405.7	
1	14.650	14.650	0.000	291890	1500.0	1427.7	
1	15.463	15.467	-0.004	213040	1500.0	1466.2	
1	16.477	16.477	0.000	74461	1500.0	1399.1	
		Average of Peak Amounts =				1407.9	
2	9.553	9.553	0.000	119494	1500.0	1434.2	M
2	10.477	10.480	-0.003	197360	1500.0	1487.0	M
2	10.703	10.703	0.000	92244	1500.0	1464.1	M
2	11.190	11.190	0.000	97143	1500.0	1486.0	M
2	11.937	11.937	0.000	224306	1500.0	1494.4	M
2	12.693	12.693	0.000	116065	1500.0	1522.4	
2	12.950	12.953	-0.003	55069	1500.0	1447.7	
2	14.363	14.367	-0.004	53934	1500.0	1490.5	
		Average of Peak Amounts =				1478.3	
						RPD = 4.88	
$ 11 DCB Decachlorobiphenyl							M
1	17.137	17.140	-0.003	220102	150.0	142.2	
2	15.433	15.433	0.000	221492	150.0	149.6	M
						RPD = 5.07	
S 12 Polychlorinated biphenyls, Total							
1						2788.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

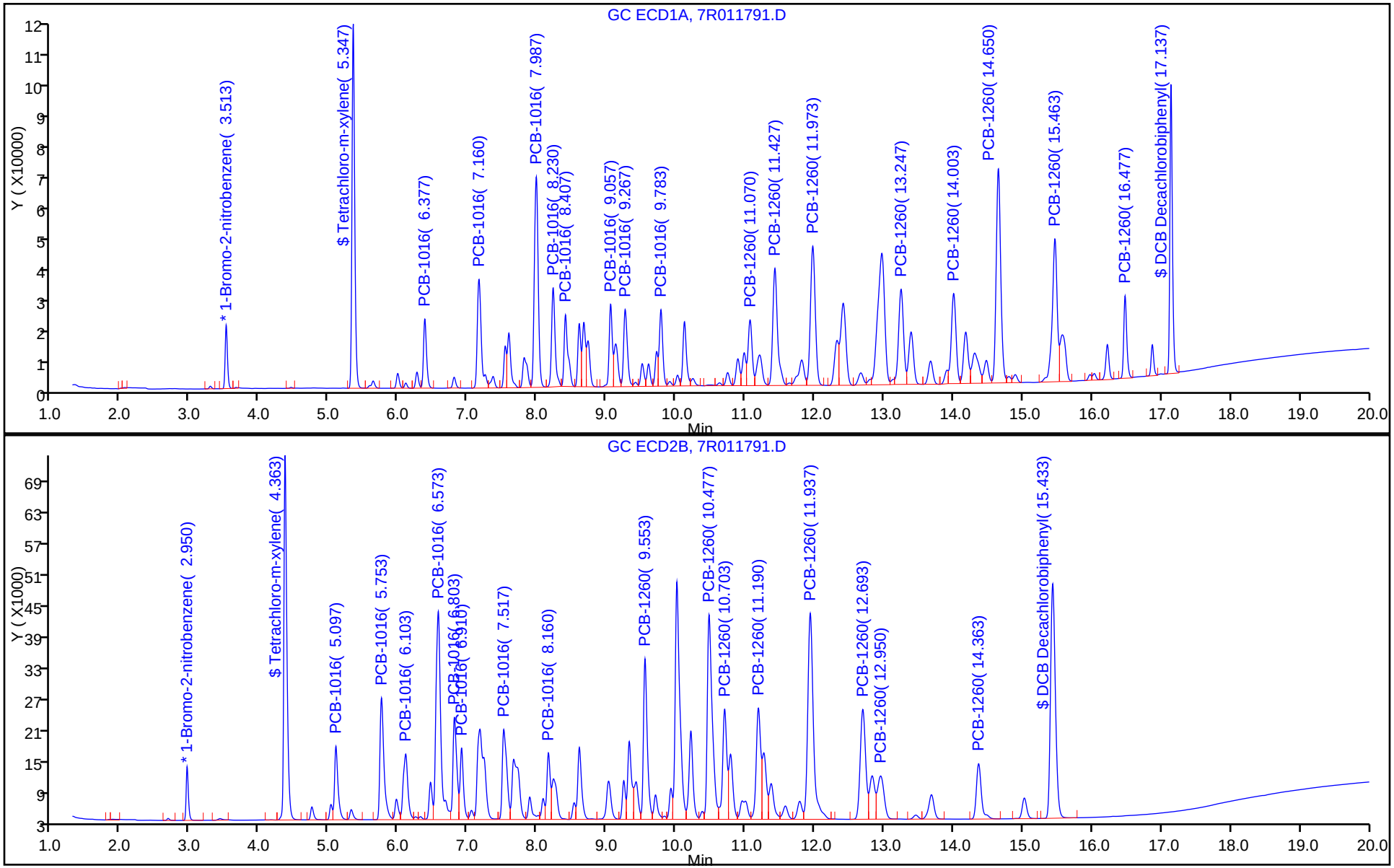
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:42 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D

Injection Date:	27-Dec-2017 13:28:15	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Dec-2017 13:51:49 ALS Bottle#: 9 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-005
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:49 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:14:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43628	20.0	20.0	
2	2.950	2.950	0.000	23132	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.347	5.347	0.000	447358	200.0	225.4	
2	4.363	4.363	0.000	333681	200.0	246.4	M
						RPD = 8.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	110696	2500.0	2441.5	
1	7.160	7.160	0.000	230918	2500.0	2459.8	
1	7.987	7.987	0.000	428515	2500.0	2420.0	M
1	8.230	8.230	0.000	189448	2500.0	2487.6	M
1	8.407	8.407	0.000	152319	2500.0	2587.4	M
1	9.057	9.060	-0.003	138643	2500.0	2386.5	M
1	9.267	9.267	0.000	155929	2500.0	2593.7	
1	9.783	9.783	0.000	137934	2500.0	2371.1	
		Average of Peak Amounts =				2468.4	
2	5.097	5.097	0.000	88342	2500.0	2534.2	M
2	5.753	5.753	0.000	169166	2500.0	2497.5	M
2	6.103	6.103	0.000	109304	2500.0	2699.1	M
2	6.573	6.573	0.000	357011	2500.0	2719.0	M
2	6.807	6.807	0.000	138630	2500.0	2633.0	M
2	6.910	6.910	0.000	91292	2500.0	2856.9	M
2	7.517	7.517	0.000	146319	2500.0	2640.7	M
2	8.160	8.163	-0.003	80213	2500.0	2574.5	M
		Average of Peak Amounts =				2644.3	
						RPD = 6.88	
8 PCB-1260							M
1	11.067	11.070	-0.003	144290	2500.0	2493.8	M
1	11.427	11.427	0.000	296611	2500.0	2467.1	M
1	11.973	11.973	0.000	357056	2500.0	2479.3	M
1	13.243	13.247	-0.004	264238	2500.0	2582.5	M
1	14.003	14.007	-0.004	231967	2500.0	2560.5	
1	14.647	14.650	-0.003	529910	2500.0	2603.9	
1	15.463	15.467	-0.004	386313	2500.0	2671.1	
1	16.477	16.477	0.000	134600	2500.0	2540.8	
		Average of Peak Amounts =				2549.9	
2	9.553	9.553	0.000	215692	2500.0	2586.1	M
2	10.477	10.480	-0.003	372695	2500.0	2805.2	M
2	10.700	10.703	-0.003	163918	2500.0	2598.9	M
2	11.187	11.190	-0.003	177507	2500.0	2712.6	M
2	11.937	11.937	0.000	422655	2500.0	2813.0	M
2	12.697	12.693	0.004	223196	2500.0	2924.5	M
2	12.953	12.953	0.000	107255	2500.0	2816.7	M
2	14.363	14.367	-0.004	104659	2500.0	2889.2	
		Average of Peak Amounts =				2768.3	
						RPD = 8.21	
$ 11 DCB Decachlorobiphenyl							M
1	17.137	17.140	-0.003	328748	200.0	213.4	
2	15.430	15.433	-0.003	334895	200.0	225.9	M
						RPD = 5.72	
S 12 Polychlorinated biphenyls, Total							
1						5018.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:53 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

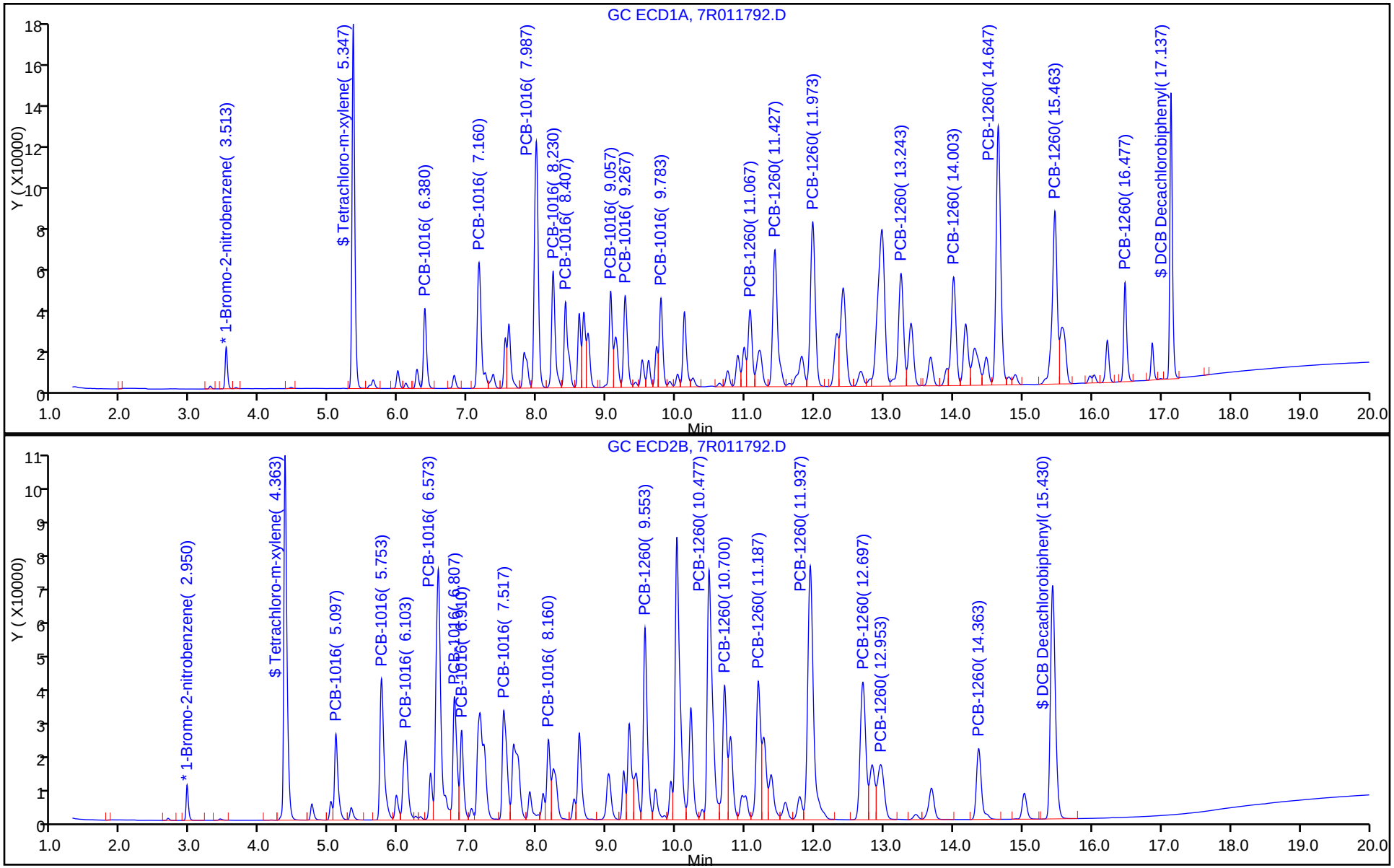
Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7 Operator ID:

Lims ID: IC PCB 5 Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD



Report Date: 28-Dec-2017 12:45:53 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

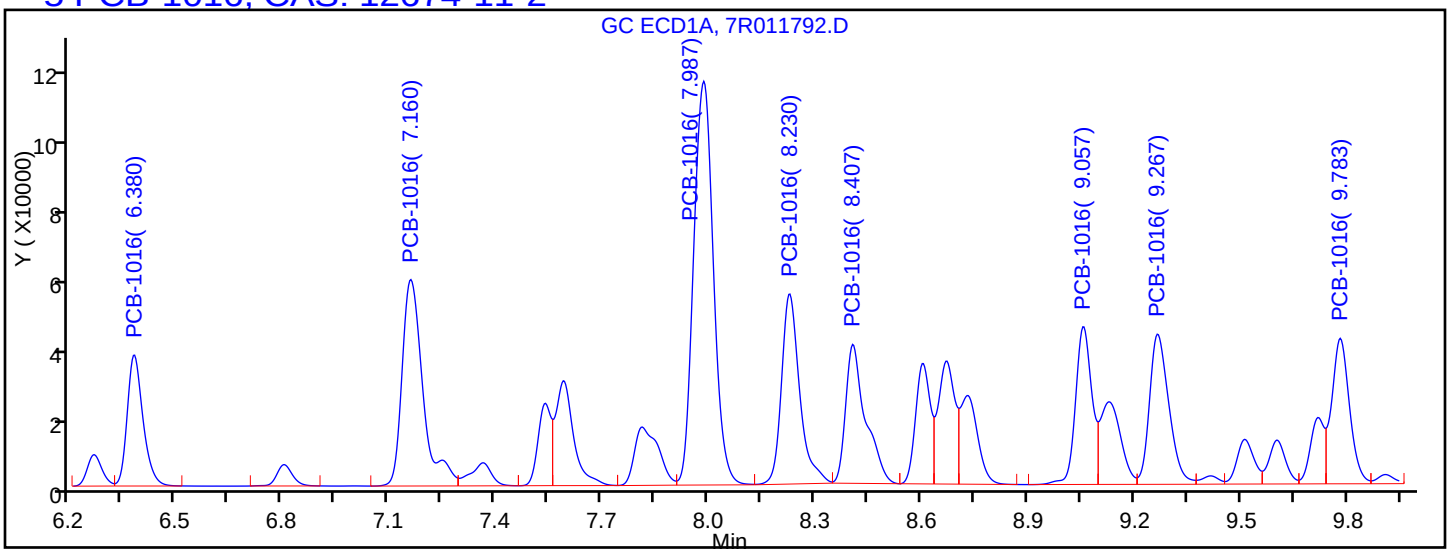
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

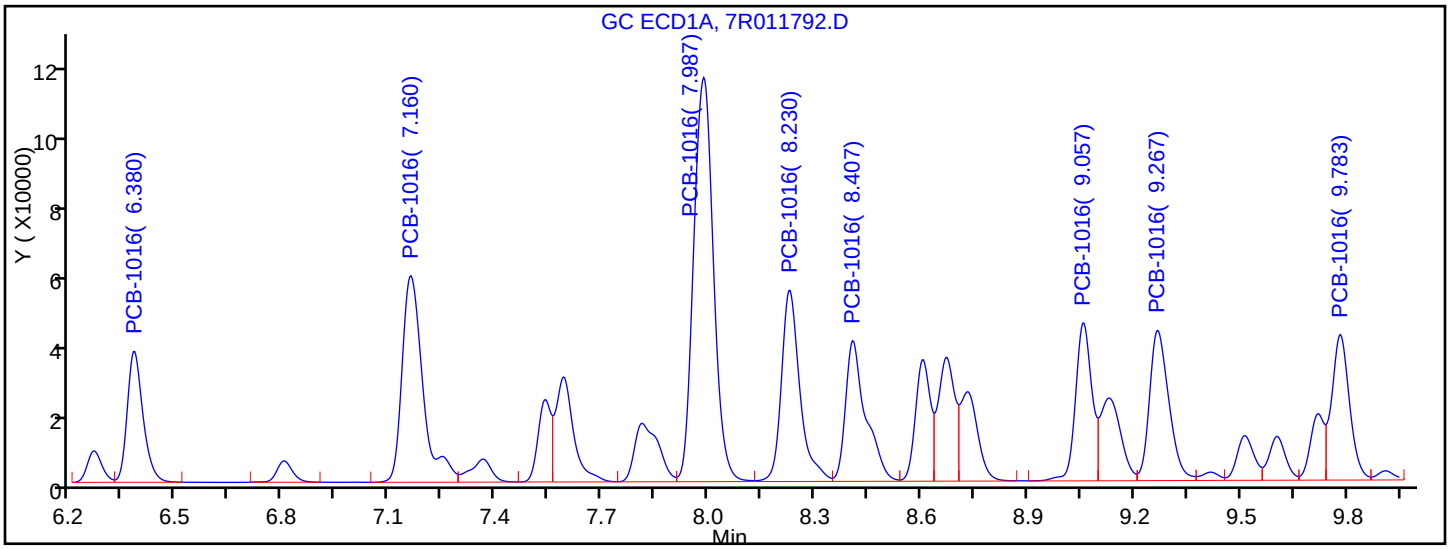
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

6.380	Response = 110696
7.160	Response = 230918
7.987	Response = 426958
8.230	Response = 184933
8.407	Response = 147252
9.057	Response = 138159
9.267	Response = 155929
9.783	Response = 137934



Manual Integration Results

6.380	Response = 110696	
7.160	Response = 230918	
7.987	Response = 428515	M
8.230	Response = 189448	M
8.407	Response = 152319	M
9.057	Response = 138643	M

Report Date: 28-Dec-2017 12:45:54 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

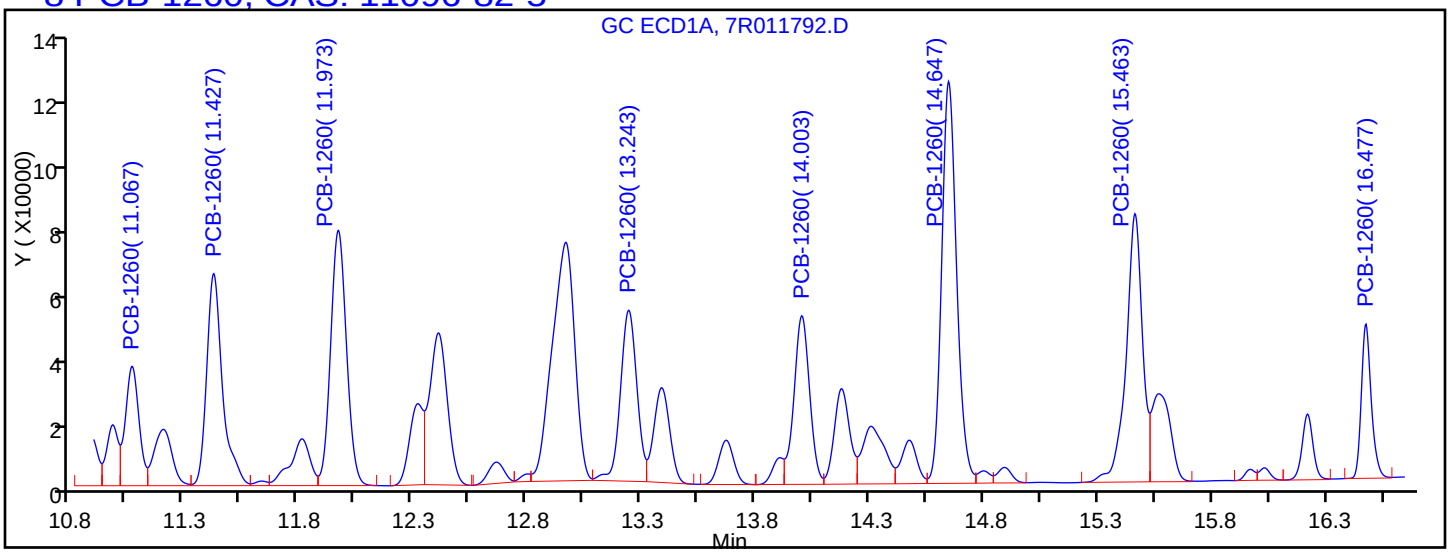
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

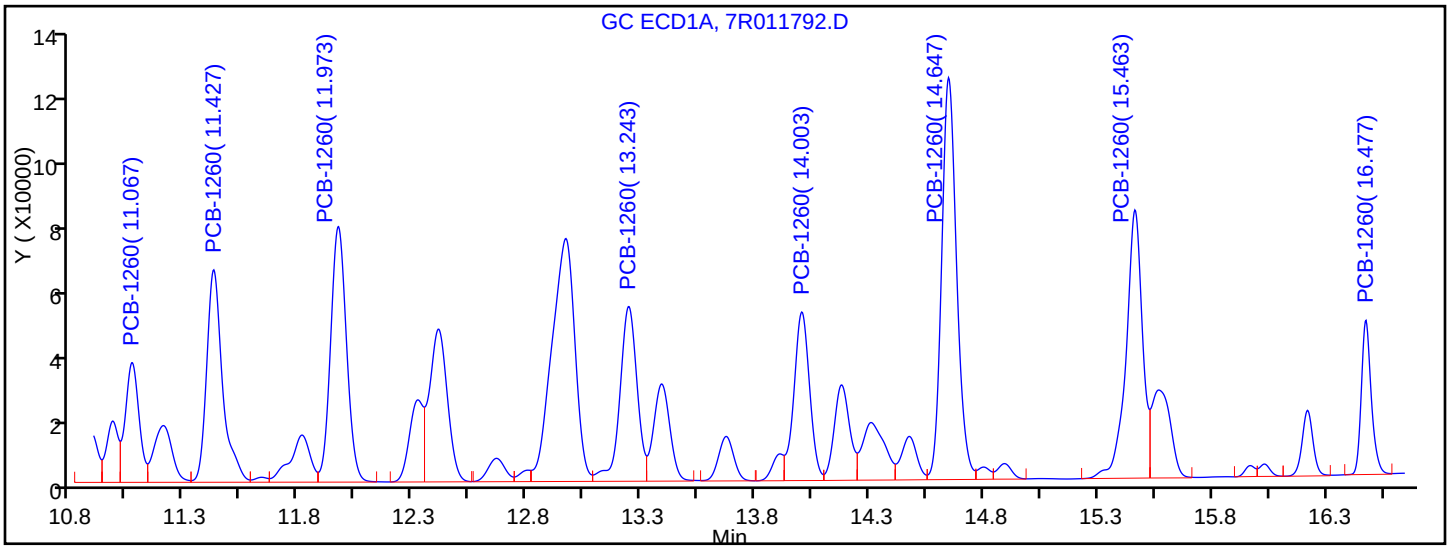
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

11.067	Response = 143397
11.427	Response = 294911
11.973	Response = 355662
13.243	Response = 247603
14.003	Response = 231967
14.647	Response = 529910
15.463	Response = 386313
16.477	Response = 134600



Manual Integration Results

11.067	Response = 144290	M
11.427	Response = 296611	M
11.973	Response = 357056	M
13.243	Response = 264238	M
14.003	Response = 231967	
14.647	Response = 529910	

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 12:17 Calibration End Date: 12/27/2017 13:51 Calibration ID: 65787

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/2	7R011788.D
Level 2	IC 460-487360/3	7R011789.D
Level 3	IC 460-487360/4	7R011790.D
Level 4	IC 460-487360/5	7R011791.D
Level 5	IC 460-487360/6	7R011792.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0321	0.0302	0.0294	0.0285	0.0306	Ave		0.0301				4.4		20.0			0.9900
PCB-1016 Peak 2	0.0636	0.0590	0.0571	0.0547	0.0585	Ave		0.0586				5.6		20.0			0.9900
PCB-1016 Peak 3	0.0341	0.0346	0.0347	0.0339	0.0378	Ave		0.0350				4.6		20.0			0.9900
PCB-1016 Peak 4	0.1016	0.1151	0.1150	0.1124	0.1235	Ave		0.1135				6.9		20.0			0.9900
PCB-1016 Peak 5	0.0458	0.0449	0.0453	0.0437	0.0479	Ave		0.0455				3.4		20.0			0.9900
PCB-1016 Peak 6	0.0262	0.0264	0.0268	0.0272	0.0316	Ave		0.0276				8.1		20.0			0.9900
PCB-1016 Peak 7	0.0494	0.0471	0.0468	0.0456	0.0506	Ave		0.0479				4.3		20.0			0.9900
PCB-1016 Peak 8	0.0276	0.0273	0.0267	0.0253	0.0277	Ave		0.0269				3.7		20.0			0.9900
PCB-1260 Peak 1	0.0739	0.0719	0.0712	0.0689	0.0746	Ave		0.0721				3.1		20.0			0.9900
PCB-1260 Peak 2	0.1029	0.1130	0.1157	0.1139	0.1289	Ave		0.1149				8.1		20.0			0.9900
PCB-1260 Peak 3	0.0529	0.0554	0.0544	0.0532	0.0567	Ave		0.0545				2.9		20.0			0.9900
PCB-1260 Peak 4	0.0540	0.0559	0.0555	0.0561	0.0614	Ave		0.0566				5.0		20.0			0.9900
PCB-1260 Peak 5	0.1176	0.1261	0.1303	0.1294	0.1462	Ave		0.1299				8.0		20.0			0.9900
PCB-1260 Peak 6	0.0569	0.0625	0.0663	0.0670	0.0772	Ave		0.0660				11.3		20.0			0.9900
PCB-1260 Peak 7	0.0320	0.0317	0.0320	0.0318	0.0371	Ave		0.0329				7.1		20.0			0.9900
PCB-1260 Peak 8	0.0272	0.0307	0.0314	0.0311	0.0362	Ave		0.0313				10.2		20.0			0.9900
Tetrachloro-m-xylene	0.8915	1.0946	1.1835	1.2422	1.4425	Ave		1.1709				17.2		20.0			0.9900
DCB Decachlorobiphenyl	1.1721	1.2466	1.2636	1.2780	1.4478	Ave		1.2816				7.9		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 12:17 Calibration End Date: 12/27/2017 13:51 Calibration ID: 65787

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/2	7R011788.D
Level 2	IC 460-487360/3	7R011789.D
Level 3	IC 460-487360/4	7R011790.D
Level 4	IC 460-487360/5	7R011791.D
Level 5	IC 460-487360/6	7R011792.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1966	17611	34359	49393	88342	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	3899	34453	66640	94718	169166	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	2091	20210	40471	58741	109304	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	6234	67205	134262	194796	357011	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	2811	26212	52845	75689	138630	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	1604	15428	31265	47162	91292	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	3033	27516	54614	78982	146319	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	1695	15943	31167	43864	80213	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	4535	41985	83083	119494	215692	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	6310	65952	135114	197360	372695	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	3246	32335	63550	92244	163918	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	3311	32651	64846	97143	177507	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	7211	73575	152168	224306	422655	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	3492	36482	77456	116065	223196	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	1963	18515	37389	55069	107255	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	1670	17915	36619	53934	104659	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	13670	63891	138199	215286	333681	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	17973	72762	147547	221492	334895	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Dec-2017 12:17:36 ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:17 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 13:16:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	47222	20.0	20.0	
2	2.950	2.950	0.000	24535	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.343	5.347	-0.004	25353	12.5	11.8	M
2	4.363	4.363	0.000	13670	12.5	9.52	M
						RPD = 21.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.377	6.380	-0.003	2725	50.0	55.5	M
1	7.160	7.160	0.000	5499	50.0	54.1	
1	7.987	7.987	0.000	11073	50.0	57.8	M
1	8.227	8.230	-0.003	4585	50.0	55.6	M
1	8.407	8.407	0.000	3350	50.0	52.6	M
1	9.057	9.060	-0.003	3868	50.0	61.5	M
1	9.267	9.267	0.000	3282	50.0	50.4	M
1	9.783	9.783	0.000	3813	50.0	60.6	M
		Average of Peak Amounts =				56.0	
2	5.097	5.097	0.000	1966	50.0	53.2	M
2	5.757	5.753	0.004	3899	50.0	54.3	M
2	6.103	6.103	0.000	2091	50.0	48.7	M
2	6.573	6.573	0.000	6234	50.0	44.8	M
2	6.807	6.807	0.000	2811	50.0	50.3	M
2	6.910	6.910	0.000	1604	50.0	47.3	M
2	7.517	7.517	0.000	3033	50.0	51.6	M
2	8.163	8.163	0.000	1695	50.0	51.3	M
		Average of Peak Amounts =				50.2	
						RPD = 10.99	
8 PCB-1260							M
1	11.067	11.070	-0.003	3425	50.0	54.7	M
1	11.427	11.427	0.000	7069	50.0	54.3	M
1	11.973	11.973	0.000	8455	50.0	54.2	M
1	13.243	13.247	-0.004	5786	50.0	52.2	M
1	14.003	14.007	-0.004	5248	50.0	53.5	M
1	14.647	14.650	-0.003	11258	50.0	51.1	M
1	15.463	15.467	-0.004	7278	50.0	46.5	M
1	16.477	16.477	0.000	3203	50.0	55.9	M
		Average of Peak Amounts =				52.8	
2	9.557	9.553	0.004	4535	50.0	51.3	M
2	10.477	10.480	-0.003	6310	50.0	44.8	M
2	10.703	10.703	0.000	3246	50.0	48.5	M
2	11.190	11.190	0.000	3311	50.0	47.7	M
2	11.937	11.937	0.000	7211	50.0	45.2	M
2	12.693	12.693	0.000	3492	50.0	43.1	M
2	12.950	12.953	-0.003	1963	50.0	48.6	M
2	14.363	14.367	-0.004	1670	50.0	43.5	M
		Average of Peak Amounts =				46.6	
						RPD = 12.51	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	21781	12.5	13.1	
2	15.433	15.433	0.000	17973	12.5	11.4	M
						RPD = 13.30	
S 12 Polychlorinated biphenyls, Total							
1						108.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

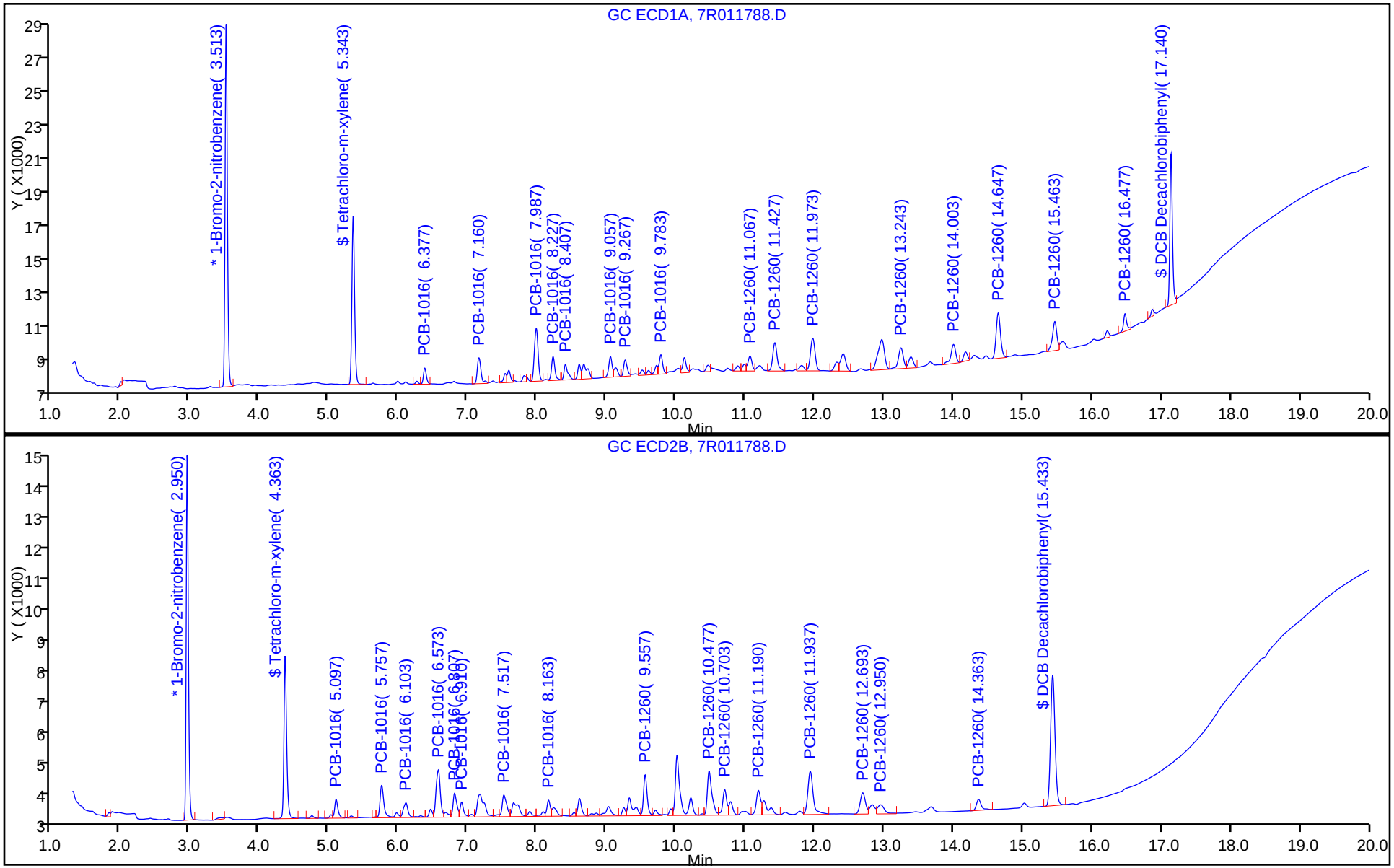
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:20 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date:	27-Dec-2017 12:17:36	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

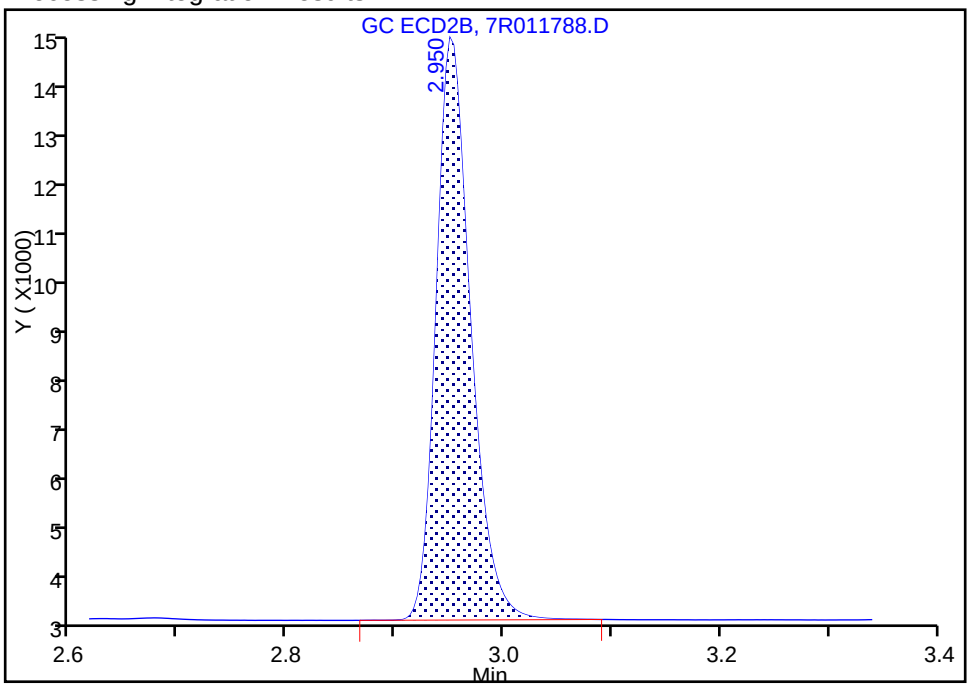
Data File:	\\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D		
Injection Date:	27-Dec-2017 12:17:36	Instrument ID:	CPESTGC7
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	5 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

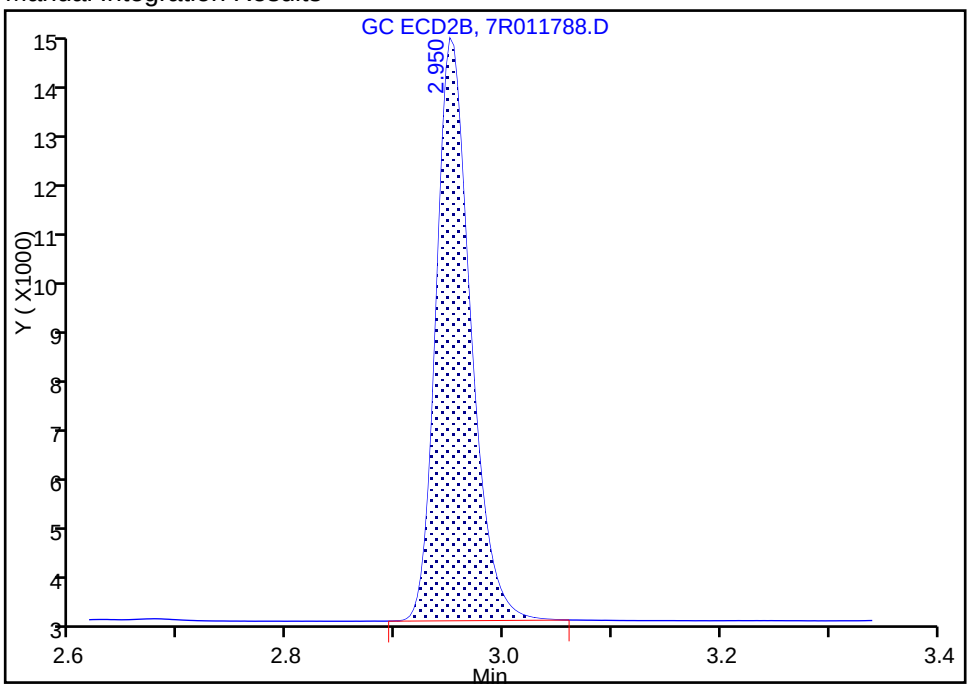
Processing Integration Results

RT: 2.95
Area: 24582
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 24535
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:22:33

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

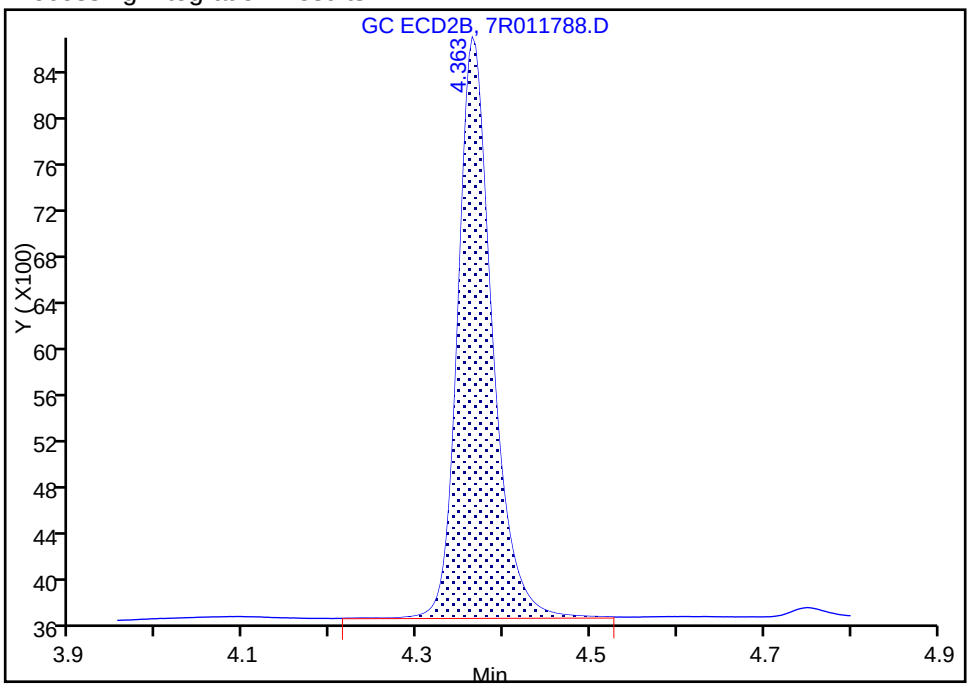
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D
Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7
Lims ID: IC PCB 1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

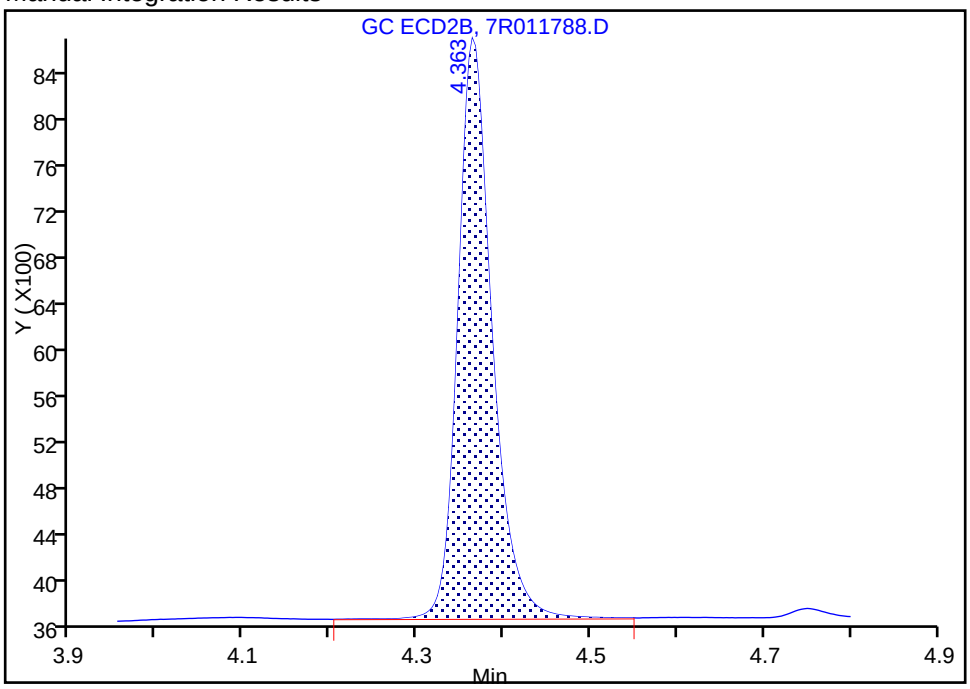
Processing Integration Results

RT: 4.36
Area: 13540
Amount: 9.437716
Amount Units: ug/l



Manual Integration Results

RT: 4.36
Area: 13670
Amount: 9.517132
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:25:19
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:45:20 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

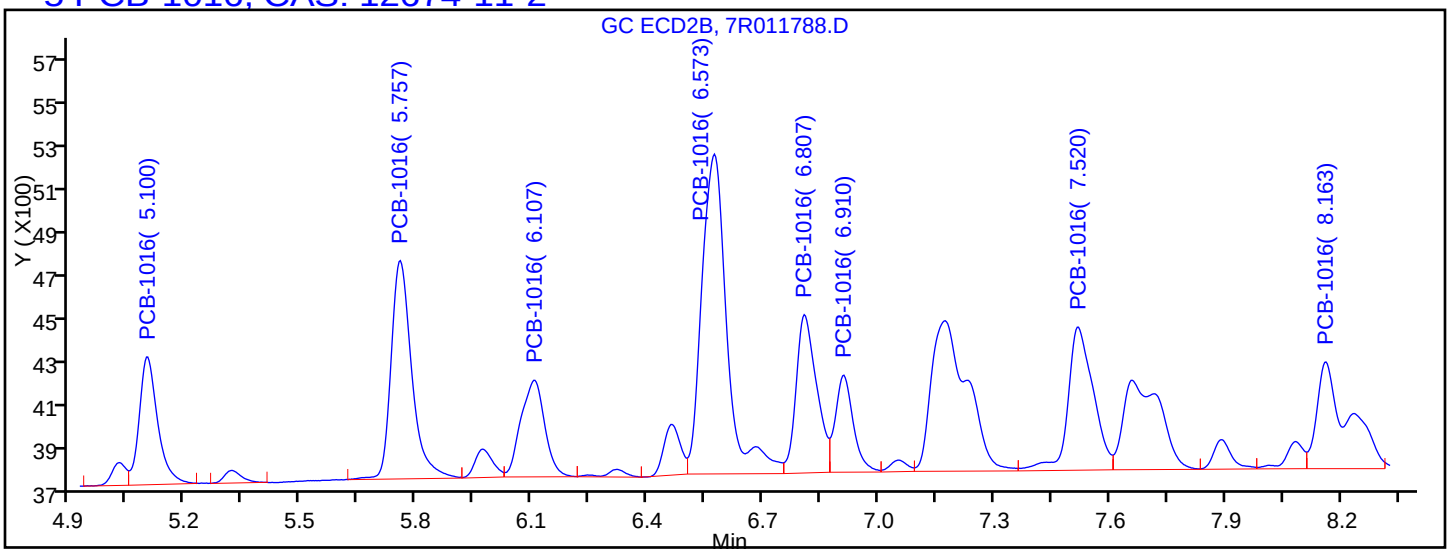
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

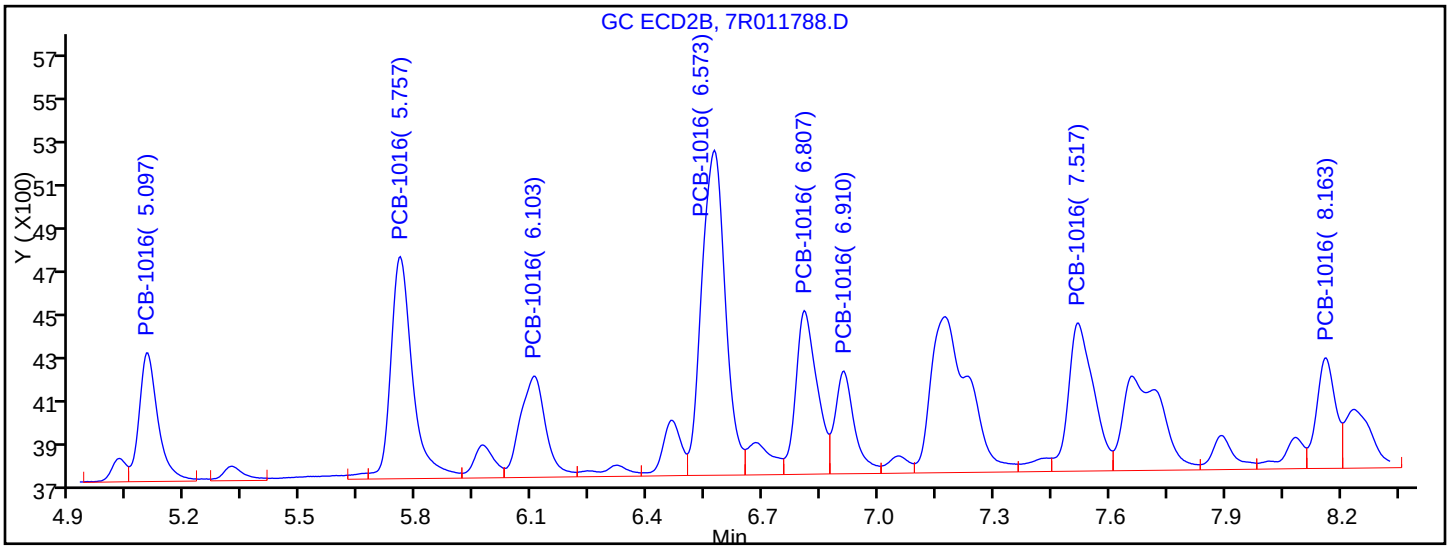
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.100	Response = 1907
5.757	Response = 3651
6.107	Response = 1858
6.573	Response = 6515
6.807	Response = 2634
6.910	Response = 1400
7.520	Response = 2944
8.163	Response = 2699



Manual Integration Results

5.097	Response = 1966	M
5.757	Response = 3899	M
6.103	Response = 2091	M
6.573	Response = 6234	M
6.807	Response = 2811	M
6.910	Response = 1604	M

Report Date: 28-Dec-2017 12:45:20 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D

Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

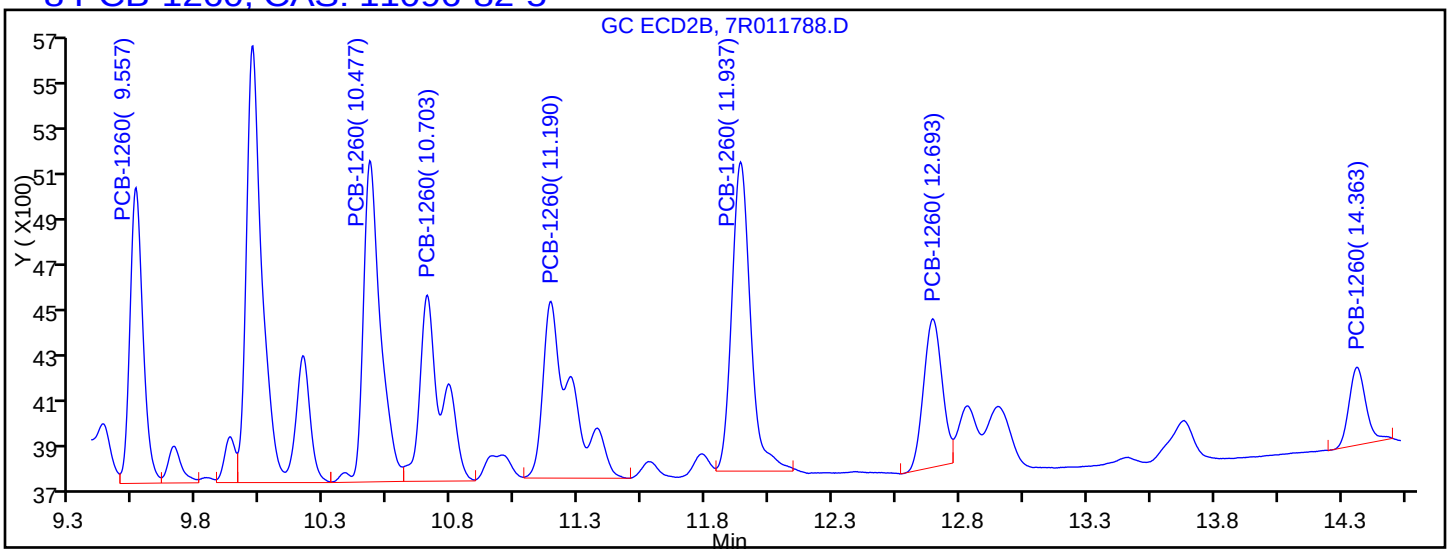
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

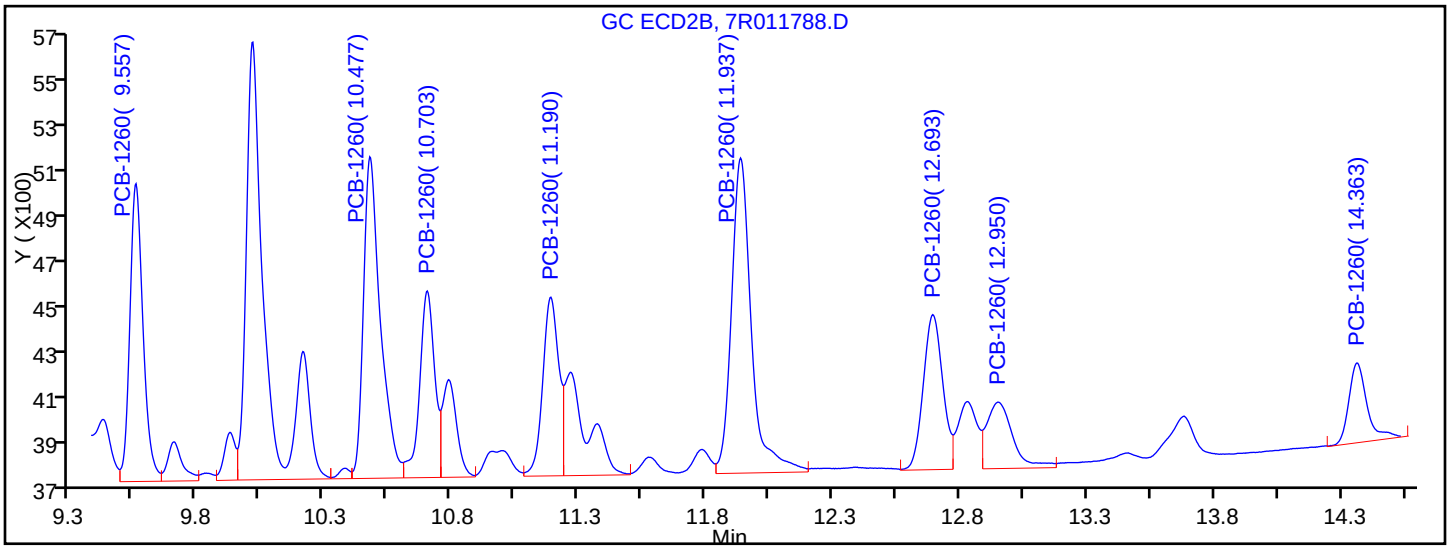
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.557	Response = 4427
10.477	Response = 6381
10.703	Response = 4756
11.190	Response = 5815
11.937	Response = 6656
12.693	Response = 3195
12.953	Response = 0
14.363	Response = 1503



Manual Integration Results

9.557	Response = 4535	M
10.477	Response = 6310	M
10.703	Response = 3246	M
11.190	Response = 3311	M
11.937	Response = 7211	M
12.693	Response = 3492	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

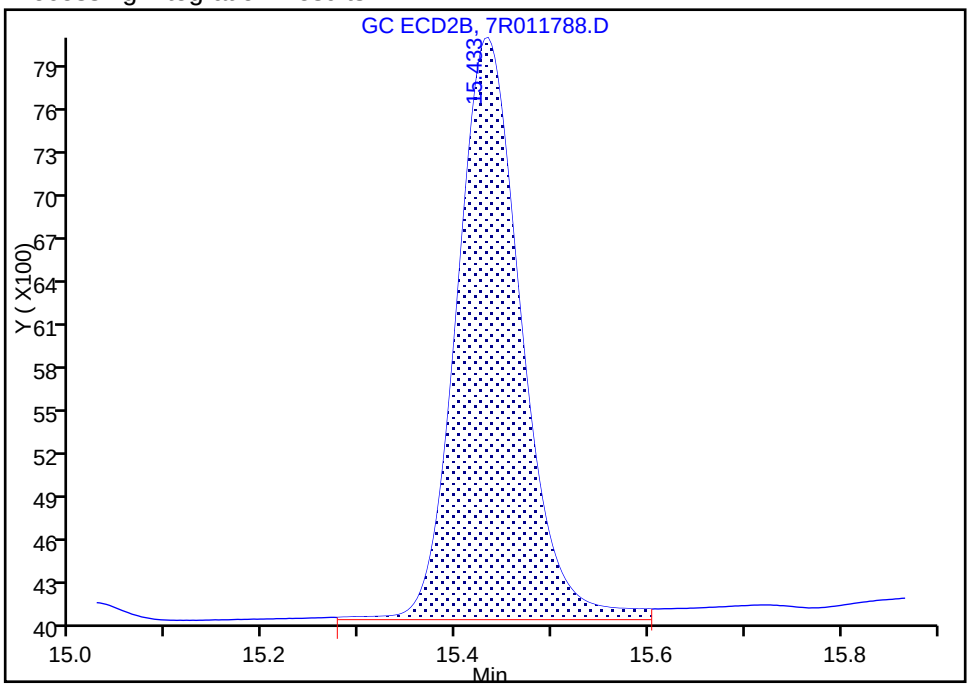
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011788.D
Injection Date: 27-Dec-2017 12:17:36 Instrument ID: CPESTGC7
Lims ID: IC PCB 1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

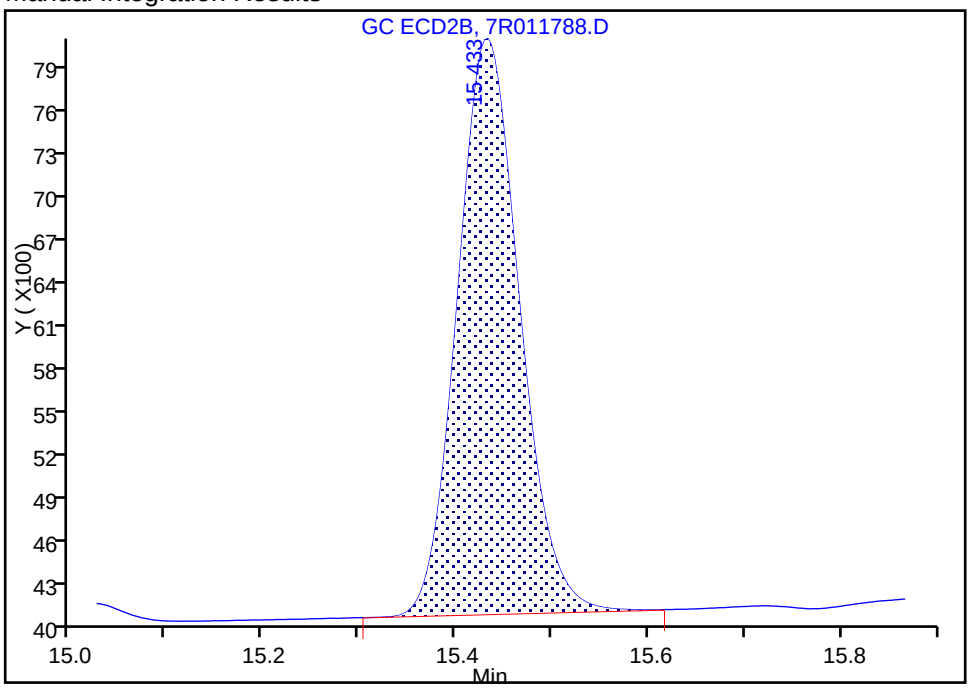
Processing Integration Results

RT: 15.43
Area: 18788
Amount: 11.833392
Amount Units: ug/l



Manual Integration Results

RT: 15.43
Area: 17973
Amount: 11.431683
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:20:02
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Dec-2017 12:41:07 ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:24 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 13:04:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	45056	20.0	20.0	
2	2.950	2.950	0.000	23347	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.347	5.347	0.000	99135	50.0	48.4	
2	4.363	4.363	0.000	63891	50.0	46.7	M
						RPD = 3.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	23807	500.0	508.4	
1	7.160	7.160	0.000	49739	500.0	513.0	
1	7.987	7.987	0.000	92751	500.0	507.2	M
1	8.230	8.230	0.000	40160	500.0	510.6	M
1	8.407	8.407	0.000	30967	500.0	509.3	M
1	9.057	9.060	-0.003	29702	500.0	495.1	M
1	9.267	9.267	0.000	31361	500.0	505.1	M
1	9.783	9.783	0.000	29980	500.0	499.0	M
		Average of Peak Amounts =				506.0	
2	5.097	5.097	0.000	17611	500.0	500.5	M
2	5.753	5.753	0.000	34453	500.0	504.0	M
2	6.103	6.103	0.000	20210	500.0	494.5	M
2	6.573	6.573	0.000	67205	500.0	507.1	M
2	6.807	6.807	0.000	26212	500.0	493.3	M
2	6.910	6.910	0.000	15428	500.0	478.4	M
2	7.517	7.517	0.000	27516	500.0	492.0	M
2	8.160	8.163	-0.003	15943	500.0	507.0	M
		Average of Peak Amounts =				497.1	
						RPD = 1.77	
8 PCB-1260							M
1	11.070	11.070	0.000	30200	500.0	505.4	M
1	11.427	11.427	0.000	63997	500.0	515.4	M
1	11.973	11.973	0.000	76251	500.0	512.7	M
1	13.243	13.247	-0.004	53672	500.0	507.9	M
1	14.003	14.007	-0.004	46886	500.0	501.1	M
1	14.647	14.650	-0.003	105421	500.0	501.6	M
1	15.467	15.467	0.000	76102	500.0	509.5	
1	16.477	16.477	0.000	26614	500.0	486.5	
		Average of Peak Amounts =				505.0	
2	9.553	9.553	0.000	41985	500.0	498.8	
2	10.477	10.480	-0.003	65952	500.0	491.8	
2	10.700	10.703	-0.003	32335	500.0	508.0	M
2	11.187	11.190	-0.003	32651	500.0	494.4	M
2	11.937	11.937	0.000	73575	500.0	485.2	
2	12.693	12.693	0.000	36482	500.0	473.6	
2	12.950	12.953	-0.003	18515	500.0	481.8	
2	14.363	14.367	-0.004	17915	500.0	490.0	
		Average of Peak Amounts =				490.4	
						RPD = 2.93	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	78951	50.0	49.6	
2	15.433	15.433	0.000	72762	50.0	48.6	M
						RPD = 1.99	
S 12 Polychlorinated biphenyls, Total							
1						1011.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:26 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

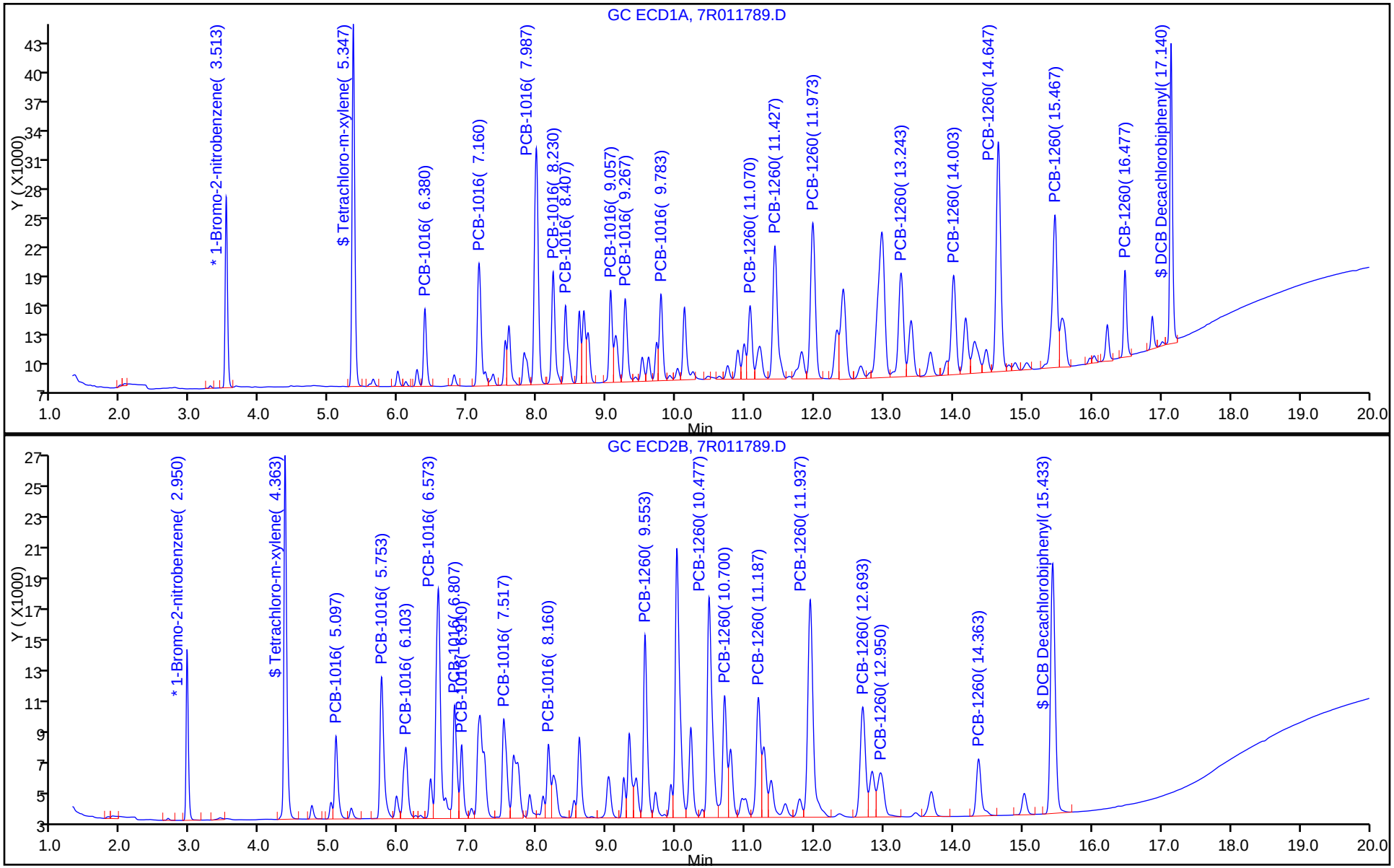
Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7 Operator ID:

Lims ID: IC PCB 2 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD



Manual Integration/User Assign Peak Report

TestAmerica Edison

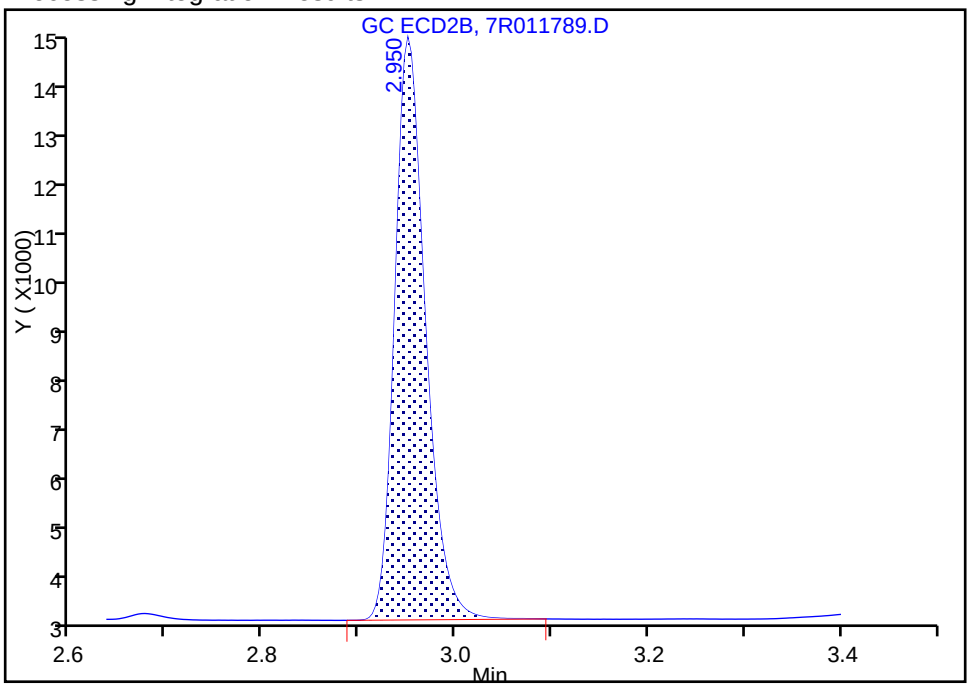
Data File:	\\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D				
Injection Date:	27-Dec-2017 12:41:07	Instrument ID:	CPESTGC7		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

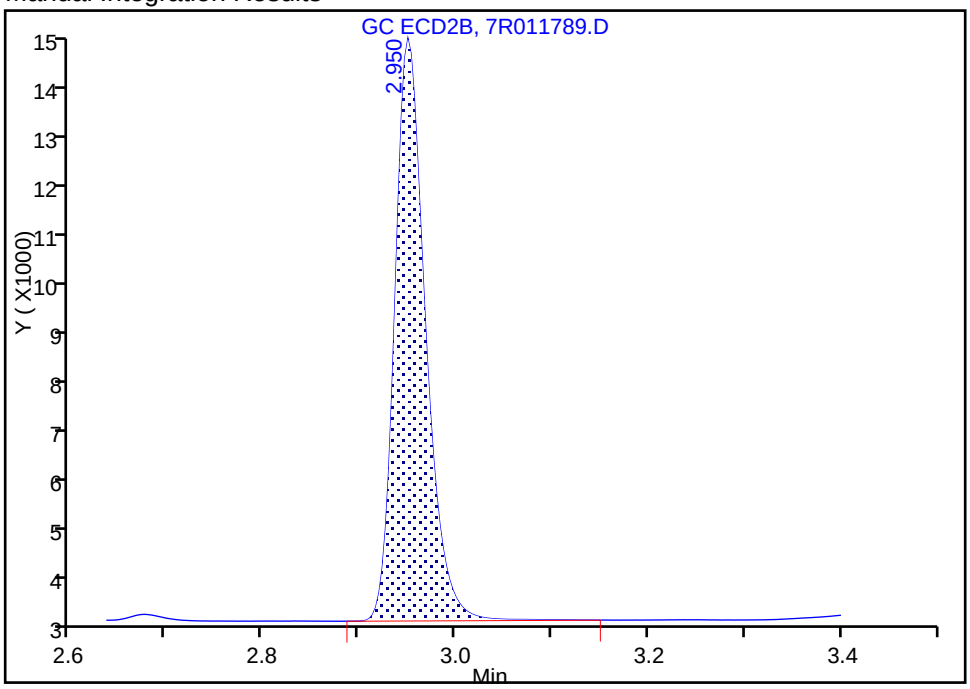
Processing Integration Results

RT: 2.95
Area: 23259
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 23347
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:18:21

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

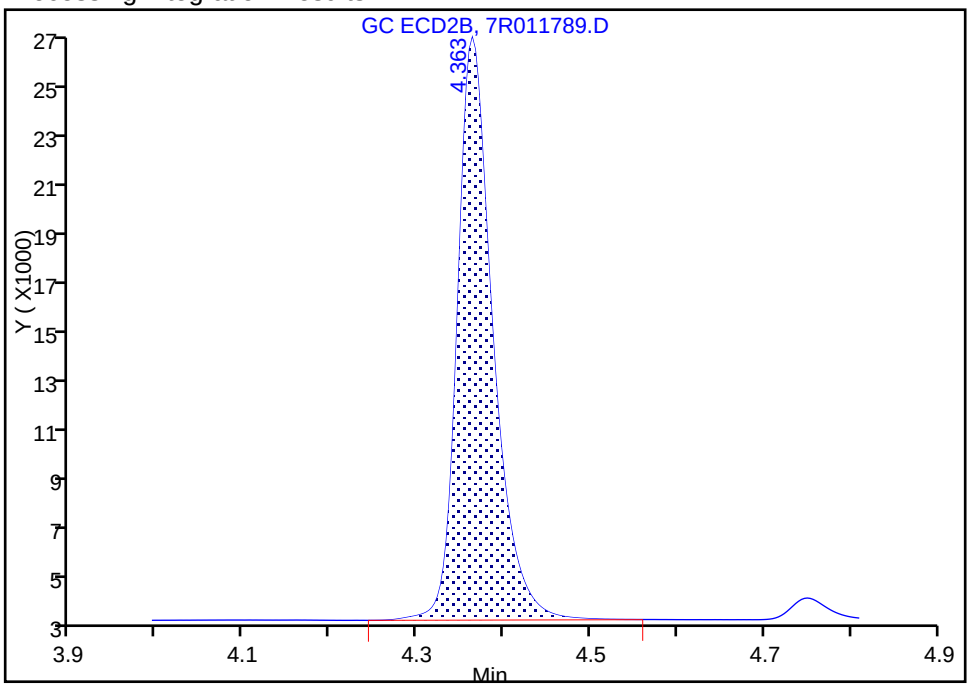
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D
Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7
Lims ID: IC PCB 2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

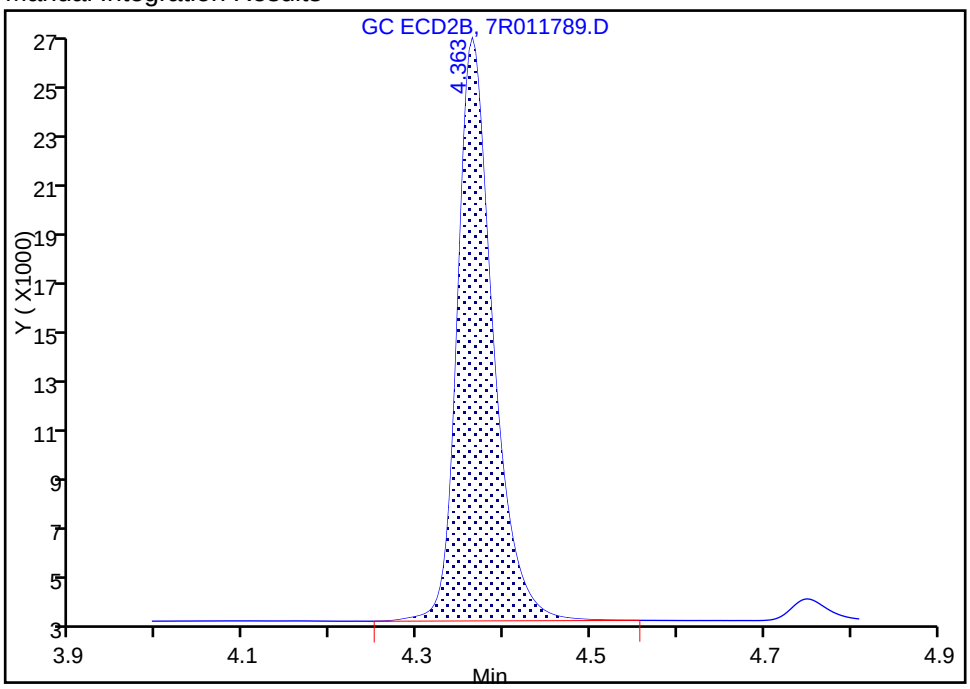
Processing Integration Results

RT: 4.36
Area: 63955
Amount: 46.800107
Amount Units: ug/l



Manual Integration Results

RT: 4.36
Area: 63891
Amount: 46.744683
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:25:06
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 28-Dec-2017 12:45:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

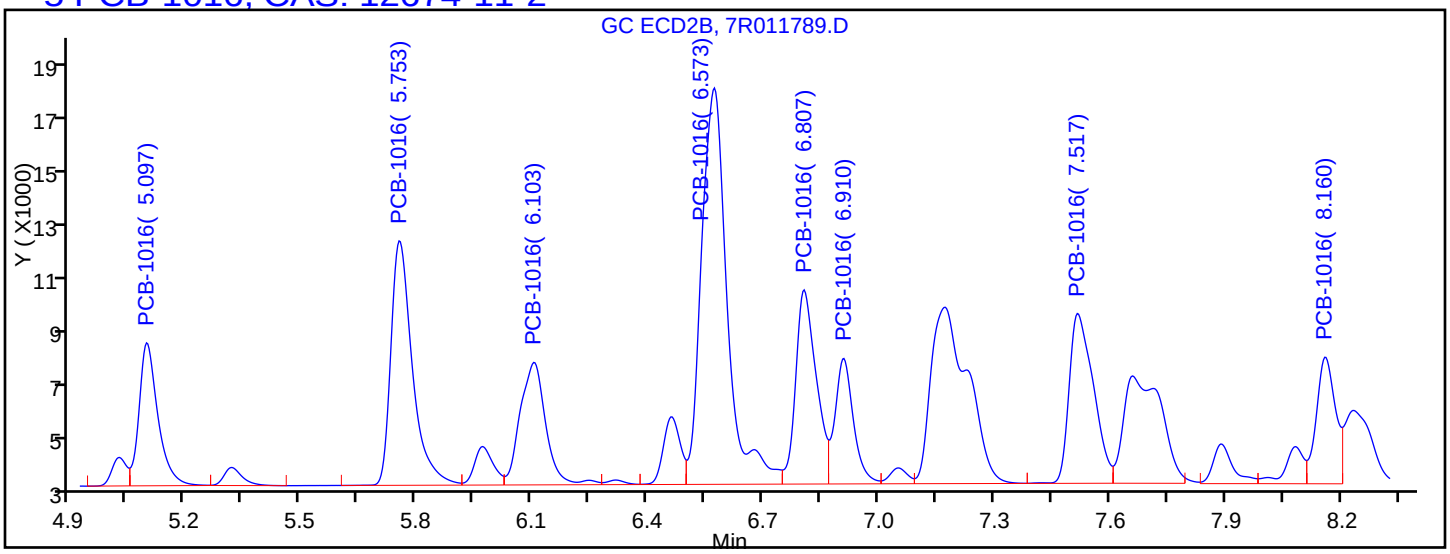
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

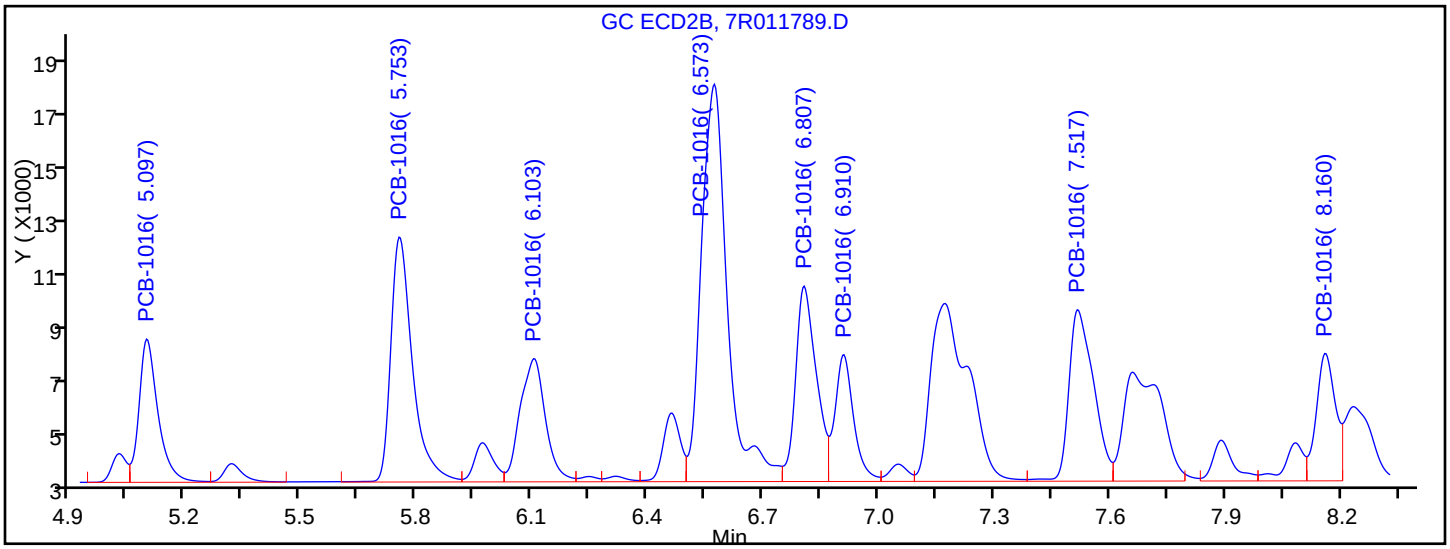
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.097	Response = 17434
5.753	Response = 34124
6.103	Response = 20386
6.573	Response = 66612
6.807	Response = 25892
6.910	Response = 15039
7.517	Response = 26739
8.160	Response = 15775



Manual Integration Results

5.097	Response = 17611	M
5.753	Response = 34453	M
6.103	Response = 20210	M
6.573	Response = 67205	M
6.807	Response = 26212	M
6.910	Response = 15428	M

Report Date: 28-Dec-2017 12:45:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D

Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

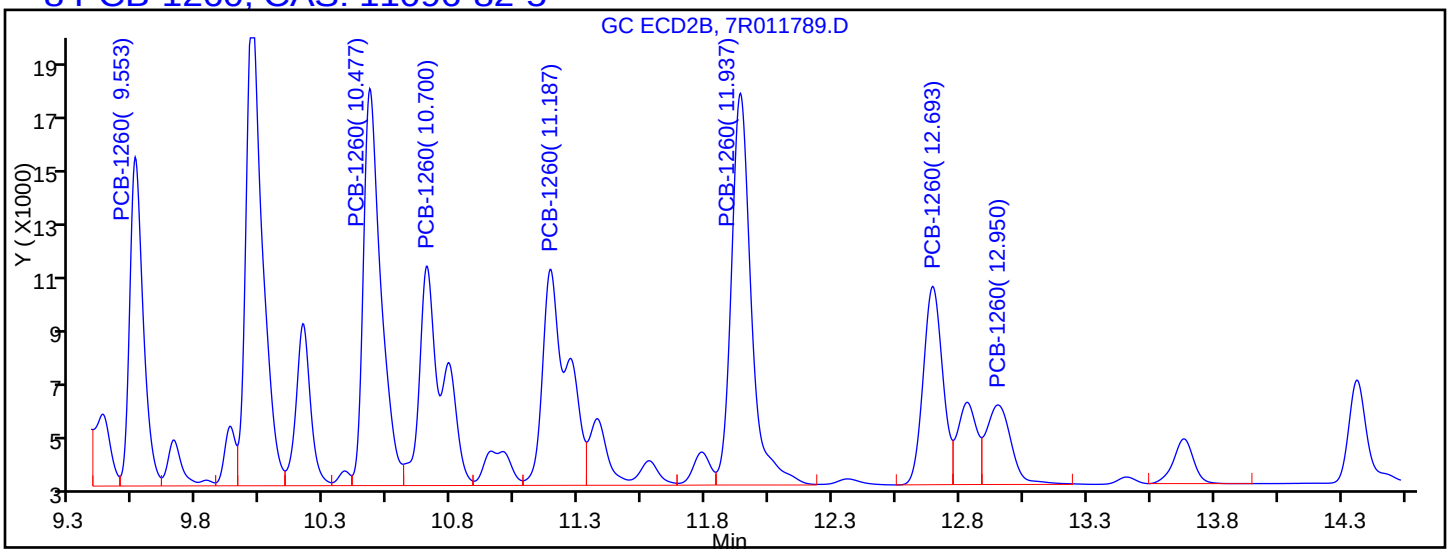
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

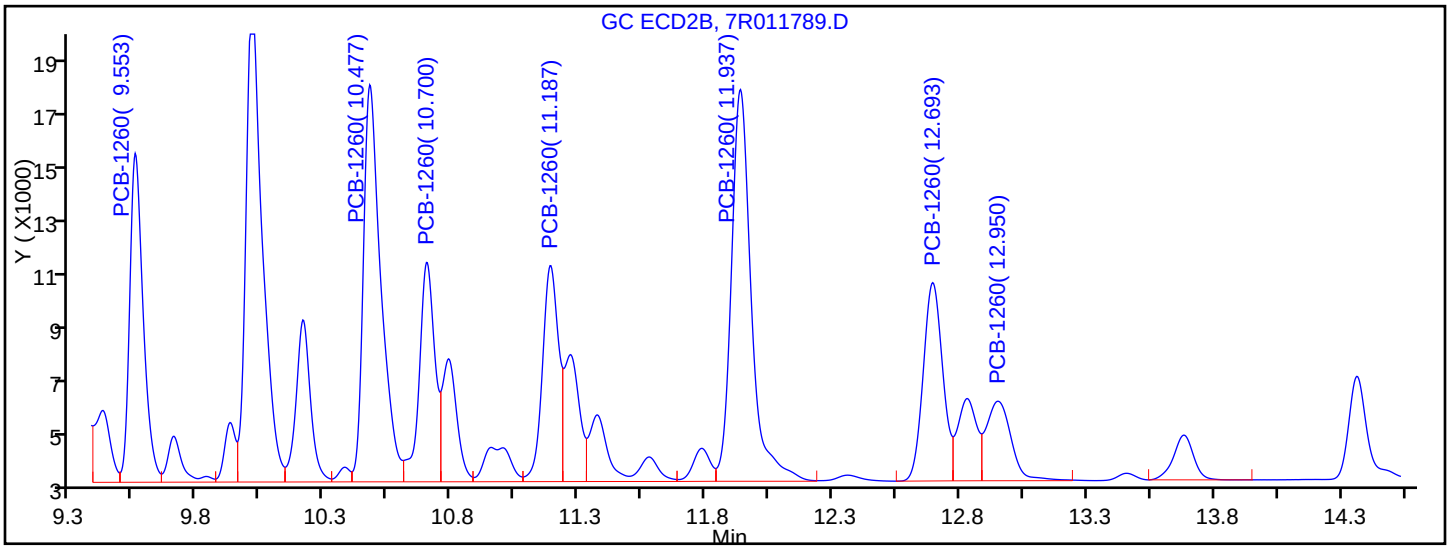
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.553	Response = 41985
10.477	Response = 65952
10.700	Response = 48911
11.187	Response = 51010
11.937	Response = 73575
12.693	Response = 36482
12.950	Response = 18515
14.363	Response = 17915



Manual Integration Results

9.553	Response = 41985	
10.477	Response = 65952	
10.700	Response = 32335	M
11.187	Response = 32651	M
11.937	Response = 73575	
12.693	Response = 36482	

Manual Integration/User Assign Peak Report

TestAmerica Edison

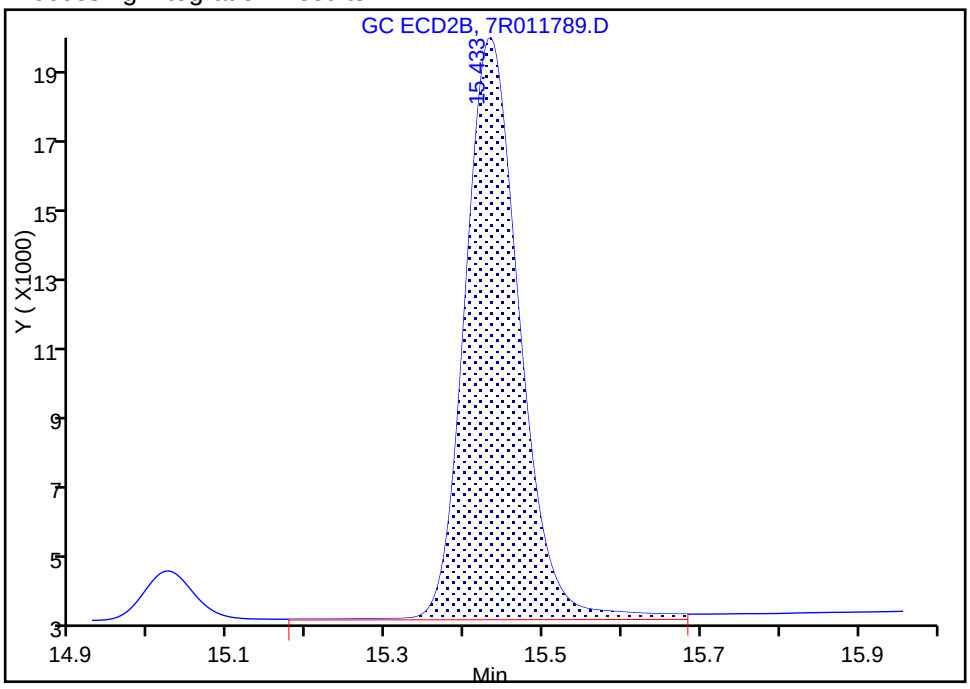
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011789.D
Injection Date: 27-Dec-2017 12:41:07 Instrument ID: CPESTGC7
Lims ID: IC PCB 2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

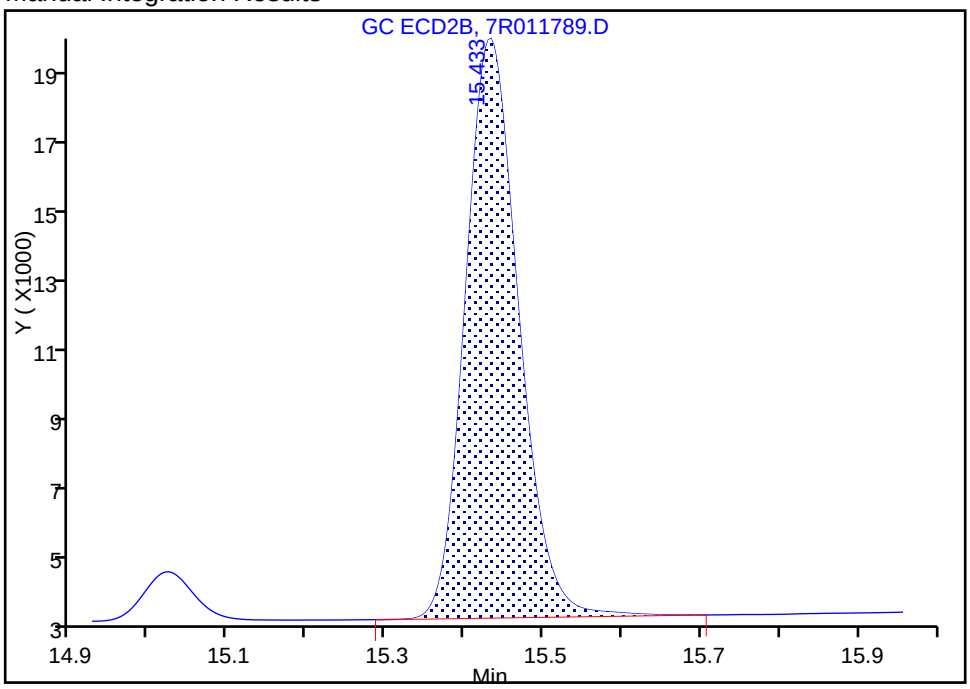
Processing Integration Results

RT: 15.43
Area: 74795
Amount: 49.056371
Amount Units: ug/l



Manual Integration Results

RT: 15.43
Area: 72762
Amount: 48.635031
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:18:54
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 27-Dec-2017 13:04:44 ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-004
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:29 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:14:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	44745	20.0	20.0	
2	2.950	2.950	0.000	23354	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.347	5.347	0.000	197832	100.0	97.2	
2	4.363	4.363	0.000	138199	100.0	101.1	
						RPD = 3.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	45075	1000.0	969.4	
1	7.160	7.160	0.000	93893	1000.0	975.2	
1	7.987	7.987	0.000	172992	1000.0	952.6	
1	8.230	8.230	0.000	74715	1000.0	956.6	
1	8.407	8.407	0.000	58173	1000.0	963.5	
1	9.060	9.060	0.000	55469	1000.0	930.9	
1	9.267	9.267	0.000	60856	1000.0	987.0	
1	9.783	9.783	0.000	56396	1000.0	945.2	
		Average of Peak Amounts =				960.0	
2	5.097	5.097	0.000	34359	1000.0	976.3	M
2	5.753	5.753	0.000	66640	1000.0	974.5	M
2	6.103	6.103	0.000	40471	1000.0	989.9	M
2	6.573	6.573	0.000	134262	1000.0	1012.8	M
2	6.807	6.807	0.000	52845	1000.0	994.2	M
2	6.910	6.910	0.000	31265	1000.0	969.1	M
2	7.517	7.517	0.000	54614	1000.0	976.3	M
2	8.163	8.163	0.000	31167	1000.0	990.8	M
		Average of Peak Amounts =				985.5	
						RPD = 2.61	
8 PCB-1260							M
1	11.070	11.070	0.000	57329	1000.0	966.1	
1	11.427	11.427	0.000	119217	1000.0	966.8	
1	11.973	11.973	0.000	143278	1000.0	970.1	
1	13.247	13.247	0.000	103383	1000.0	985.2	
1	14.007	14.007	0.000	89755	1000.0	966.0	
1	14.650	14.650	0.000	204804	1000.0	981.3	
1	15.467	15.467	0.000	149097	1000.0	1005.2	
1	16.477	16.477	0.000	52202	1000.0	960.8	
		Average of Peak Amounts =				975.2	
2	9.553	9.553	0.000	83083	1000.0	986.7	M
2	10.480	10.480	0.000	135114	1000.0	1007.3	M
2	10.703	10.703	0.000	63550	1000.0	998.0	M
2	11.190	11.190	0.000	64846	1000.0	981.5	M
2	11.937	11.937	0.000	152168	1000.0	1003.1	M
2	12.693	12.693	0.000	77456	1000.0	1005.3	M
2	12.953	12.953	0.000	37389	1000.0	972.6	
2	14.367	14.367	0.000	36619	1000.0	1001.3	
		Average of Peak Amounts =				994.5	
						RPD = 1.96	
$ 11 DCB Decachlorobiphenyl							M
1	17.140	17.140	0.000	149852	100.0	94.8	
2	15.433	15.433	0.000	147547	100.0	98.6	M
						RPD = 3.90	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

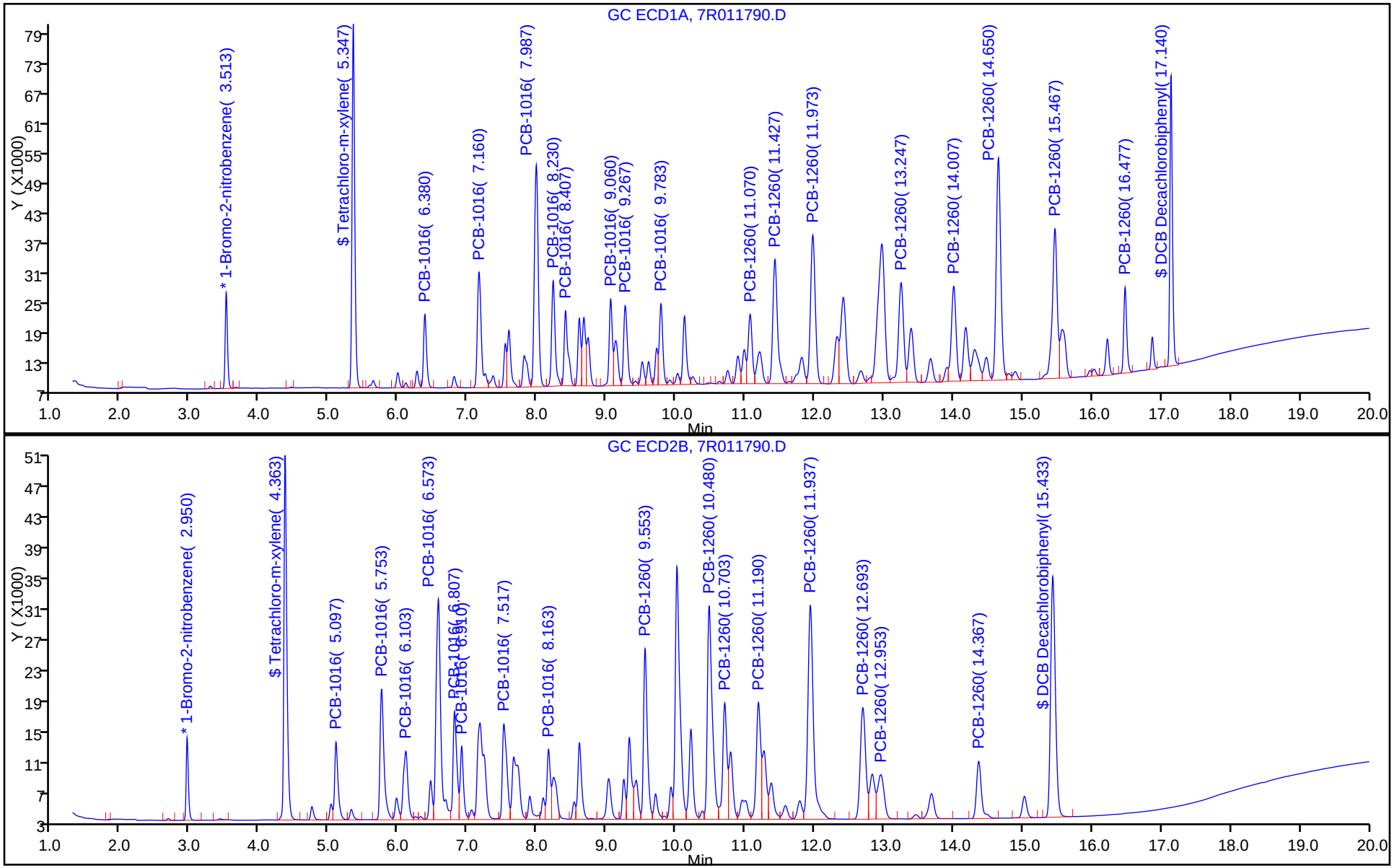
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:31 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D

Injection Date:	27-Dec-2017 13:04:44	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

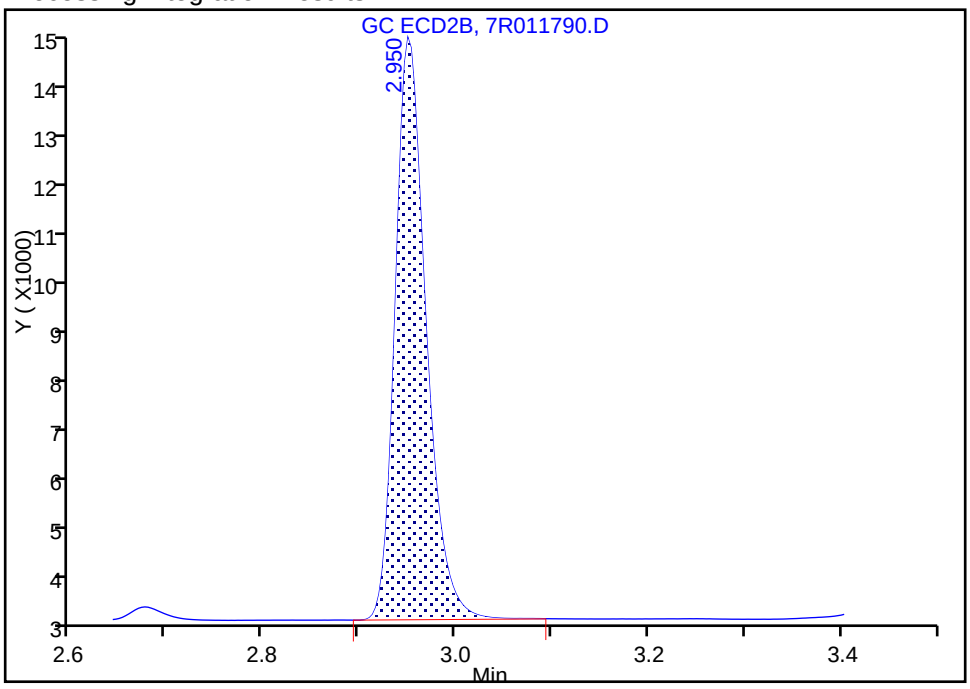
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D
Injection Date: 27-Dec-2017 13:04:44 Instrument ID: CPESTGC7
Lims ID: IC PCB 3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

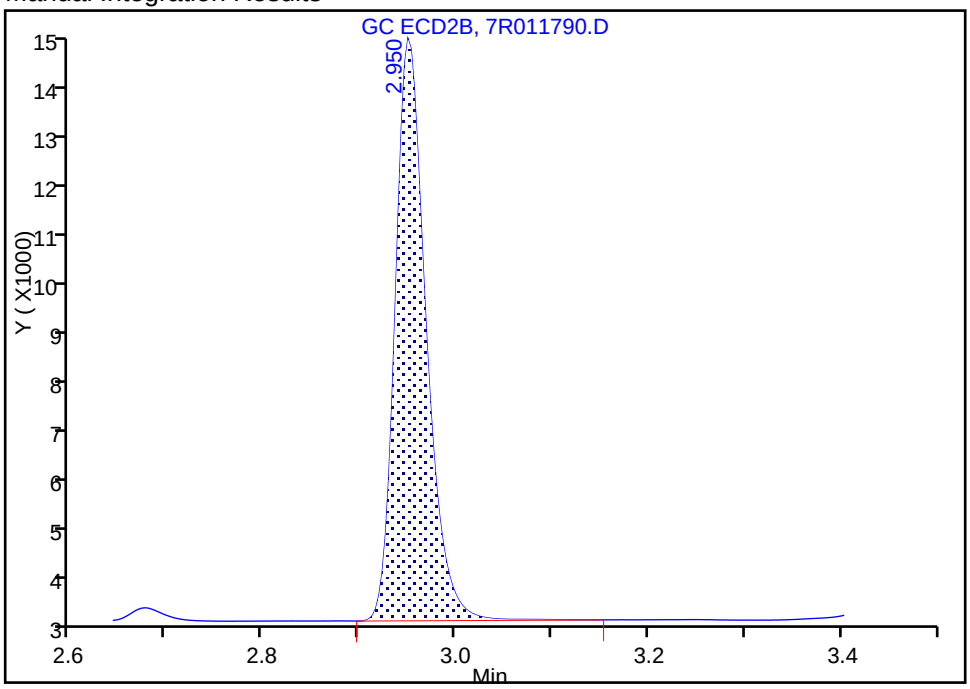
Processing Integration Results

RT: 2.95
Area: 23280
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 23354
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:17:46
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:45:31 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D

Injection Date: 27-Dec-2017 13:04:44 Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

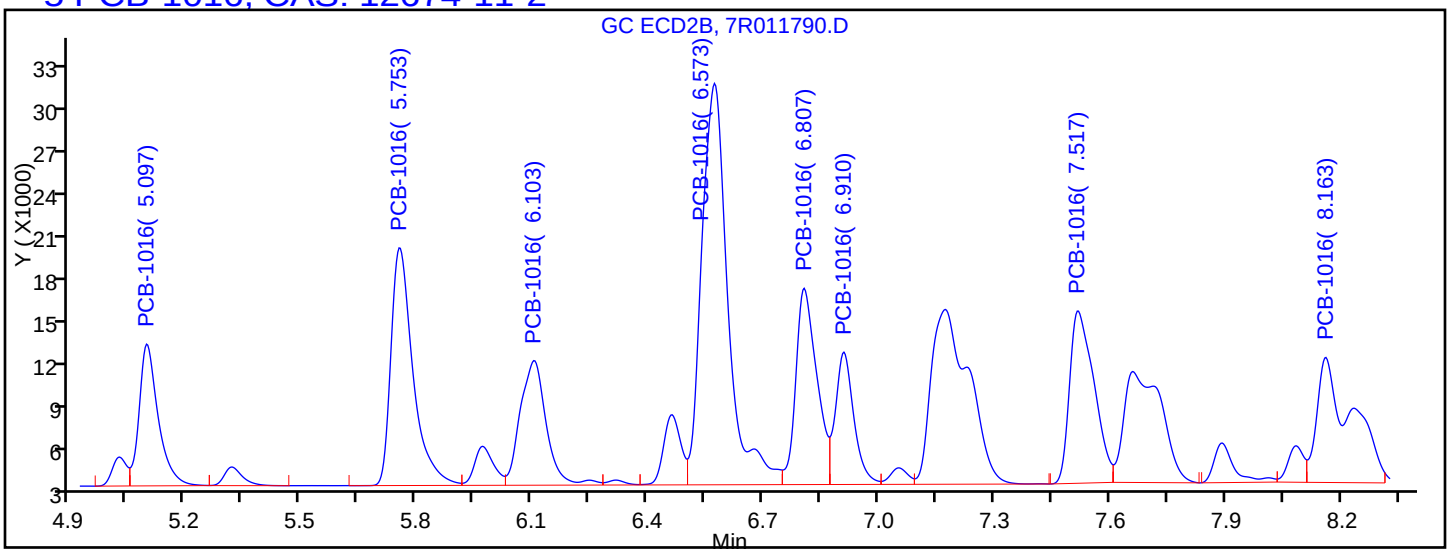
Operator ID: ALS Bottle#: 7 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

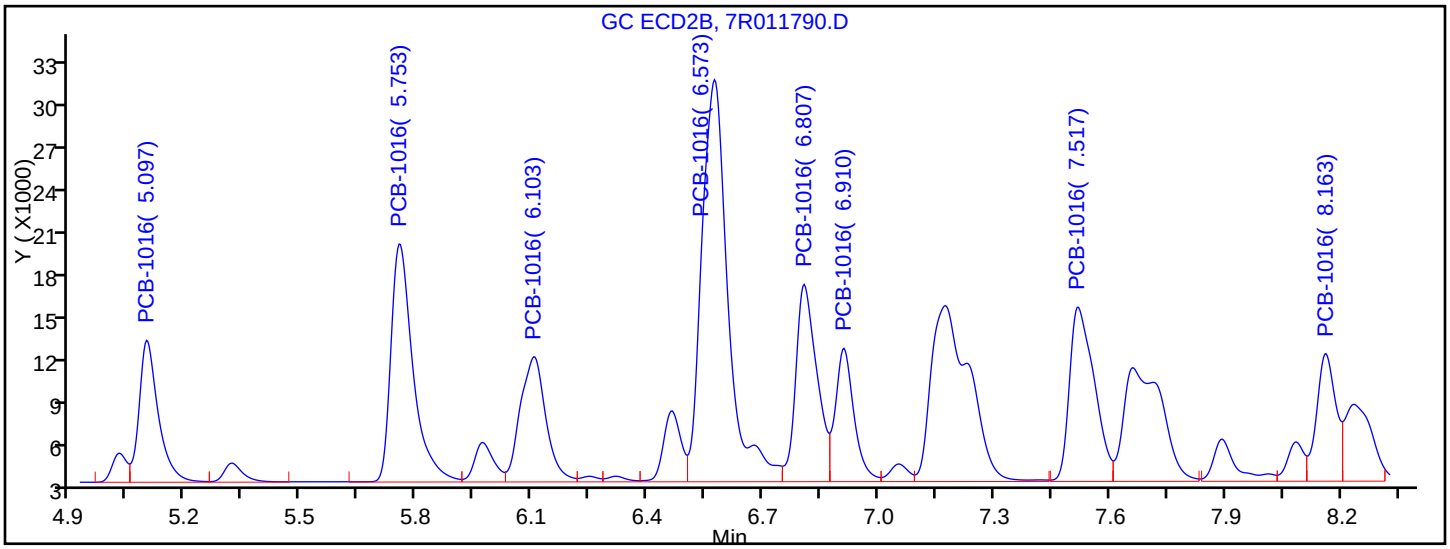
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.097	Response = 34073
5.753	Response = 66174
6.103	Response = 41037
6.573	Response = 133359
6.807	Response = 52342
6.910	Response = 30681
7.517	Response = 53164
8.163	Response = 54597



Manual Integration Results

5.097	Response = 34359	M
5.753	Response = 66640	M
6.103	Response = 40471	M
6.573	Response = 134262	M
6.807	Response = 52845	M
6.910	Response = 31265	M

Report Date: 28-Dec-2017 12:45:32 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D

Injection Date: 27-Dec-2017 13:04:44 Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

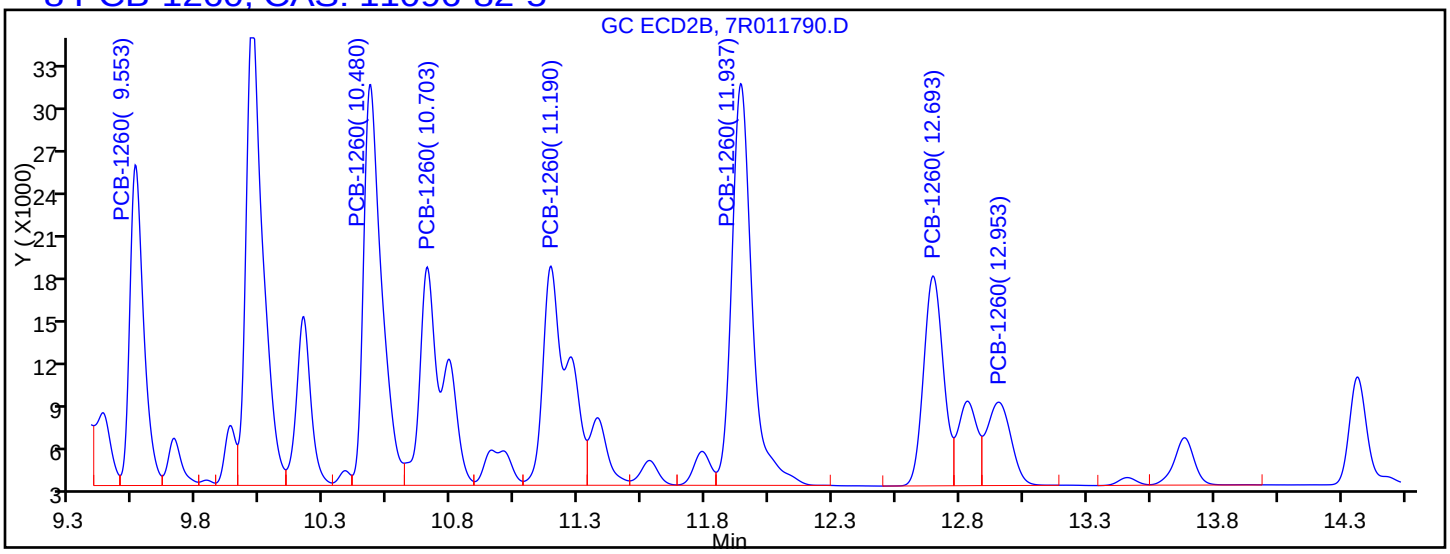
Operator ID: ALS Bottle#: 7 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

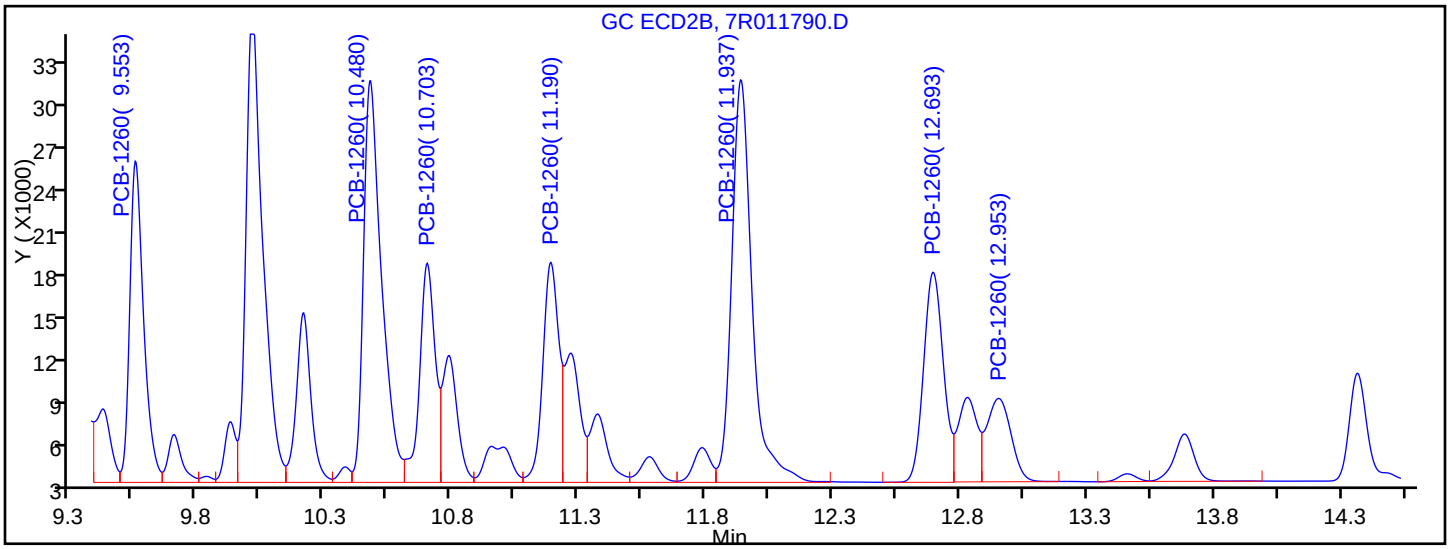
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.553	Response = 82653
10.480	Response = 134444
10.703	Response = 97308
11.190	Response = 102106
11.937	Response = 150818
12.693	Response = 77238
12.953	Response = 37389
14.367	Response = 36619



Manual Integration Results

9.553	Response = 83083	M
10.480	Response = 135114	M
10.703	Response = 63550	M
11.190	Response = 64846	M
11.937	Response = 152168	M
12.693	Response = 77456	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

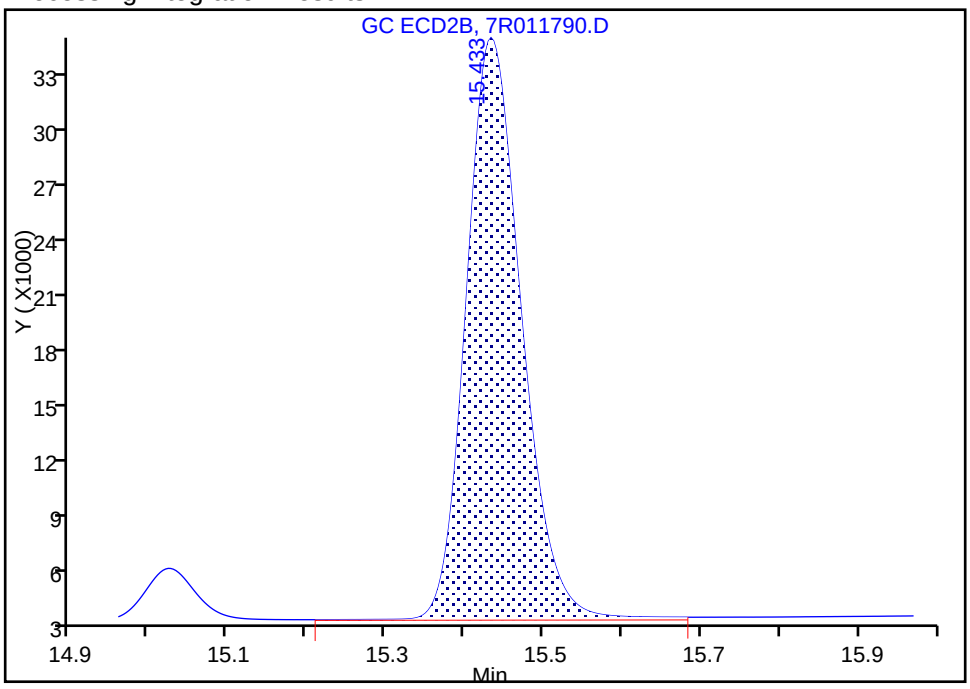
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011790.D
Injection Date: 27-Dec-2017 13:04:44 Instrument ID: CPESTGC7
Lims ID: IC PCB 3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

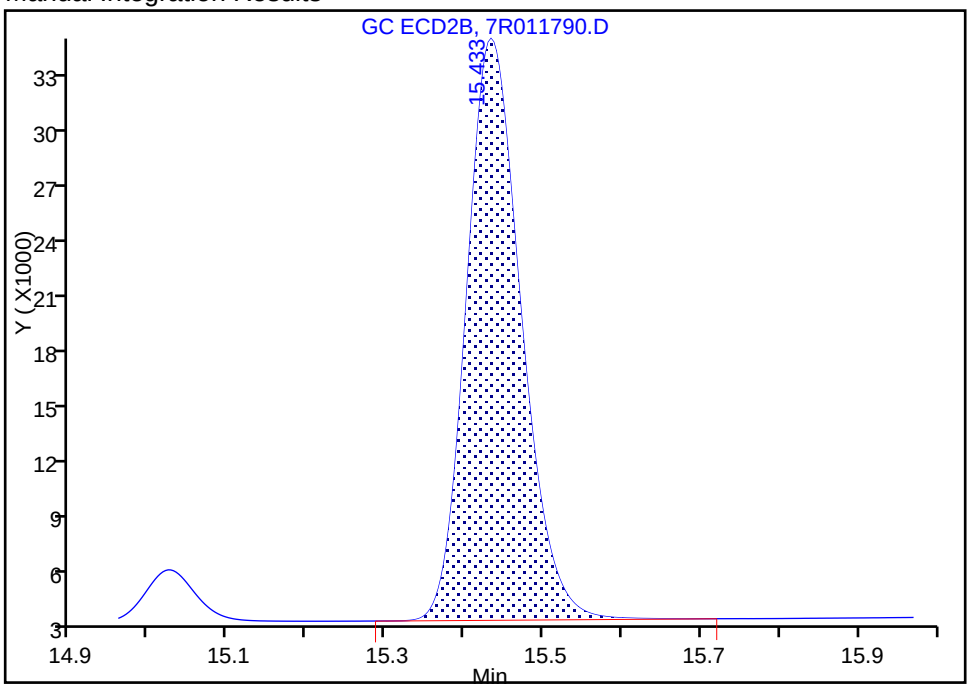
Processing Integration Results

RT: 15.43
Area: 149687
Amount: 98.673219
Amount Units: ug/l



Manual Integration Results

RT: 15.43
Area: 147547
Amount: 98.592700
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:19:04
Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Dec-2017 13:28:15 ALS Bottle#: 8 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-005
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:39 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:15:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43830	20.0	20.0	
2	2.950	2.950	0.000	23108	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.347	5.347	0.000	296201	150.0	148.5	
2	4.363	4.363	0.000	215286	150.0	159.1	
						RPD = 6.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.377	6.380	-0.003	63309	1500.0	1389.9	
1	7.160	7.160	0.000	131903	1500.0	1398.6	
1	7.987	7.987	0.000	242698	1500.0	1364.3	
1	8.230	8.230	0.000	104985	1500.0	1372.2	
1	8.407	8.407	0.000	82628	1500.0	1397.1	
1	9.057	9.060	-0.003	78277	1500.0	1341.2	
1	9.267	9.267	0.000	86664	1500.0	1434.9	
1	9.783	9.783	0.000	78649	1500.0	1345.7	
		Average of Peak Amounts =				1380.5	
2	5.097	5.097	0.000	49393	1500.0	1418.4	
2	5.753	5.753	0.000	94718	1500.0	1399.8	M
2	6.103	6.103	0.000	58741	1500.0	1452.0	M
2	6.573	6.573	0.000	194796	1500.0	1485.1	M
2	6.803	6.807	-0.004	75689	1500.0	1439.1	M
2	6.910	6.910	0.000	47162	1500.0	1477.4	M
2	7.517	7.517	0.000	78982	1500.0	1426.9	M
2	8.160	8.163	-0.003	43864	1500.0	1409.3	M
		Average of Peak Amounts =				1438.5	
						RPD = 4.12	
8 PCB-1260							M
1	11.070	11.070	0.000	81235	1500.0	1397.6	
1	11.427	11.427	0.000	168320	1500.0	1393.6	
1	11.973	11.973	0.000	201391	1500.0	1392.0	
1	13.247	13.247	0.000	142004	1500.0	1381.5	
1	14.003	14.007	-0.004	127934	1500.0	1405.7	
1	14.650	14.650	0.000	291890	1500.0	1427.7	
1	15.463	15.467	-0.004	213040	1500.0	1466.2	
1	16.477	16.477	0.000	74461	1500.0	1399.1	
		Average of Peak Amounts =				1407.9	
2	9.553	9.553	0.000	119494	1500.0	1434.2	M
2	10.477	10.480	-0.003	197360	1500.0	1487.0	M
2	10.703	10.703	0.000	92244	1500.0	1464.1	M
2	11.190	11.190	0.000	97143	1500.0	1486.0	M
2	11.937	11.937	0.000	224306	1500.0	1494.4	M
2	12.693	12.693	0.000	116065	1500.0	1522.4	
2	12.950	12.953	-0.003	55069	1500.0	1447.7	
2	14.363	14.367	-0.004	53934	1500.0	1490.5	
		Average of Peak Amounts =				1478.3	
						RPD = 4.88	
$ 11 DCB Decachlorobiphenyl							M
1	17.137	17.140	-0.003	220102	150.0	142.2	
2	15.433	15.433	0.000	221492	150.0	149.6	M
						RPD = 5.07	
S 12 Polychlorinated biphenyls, Total							
1						2788.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

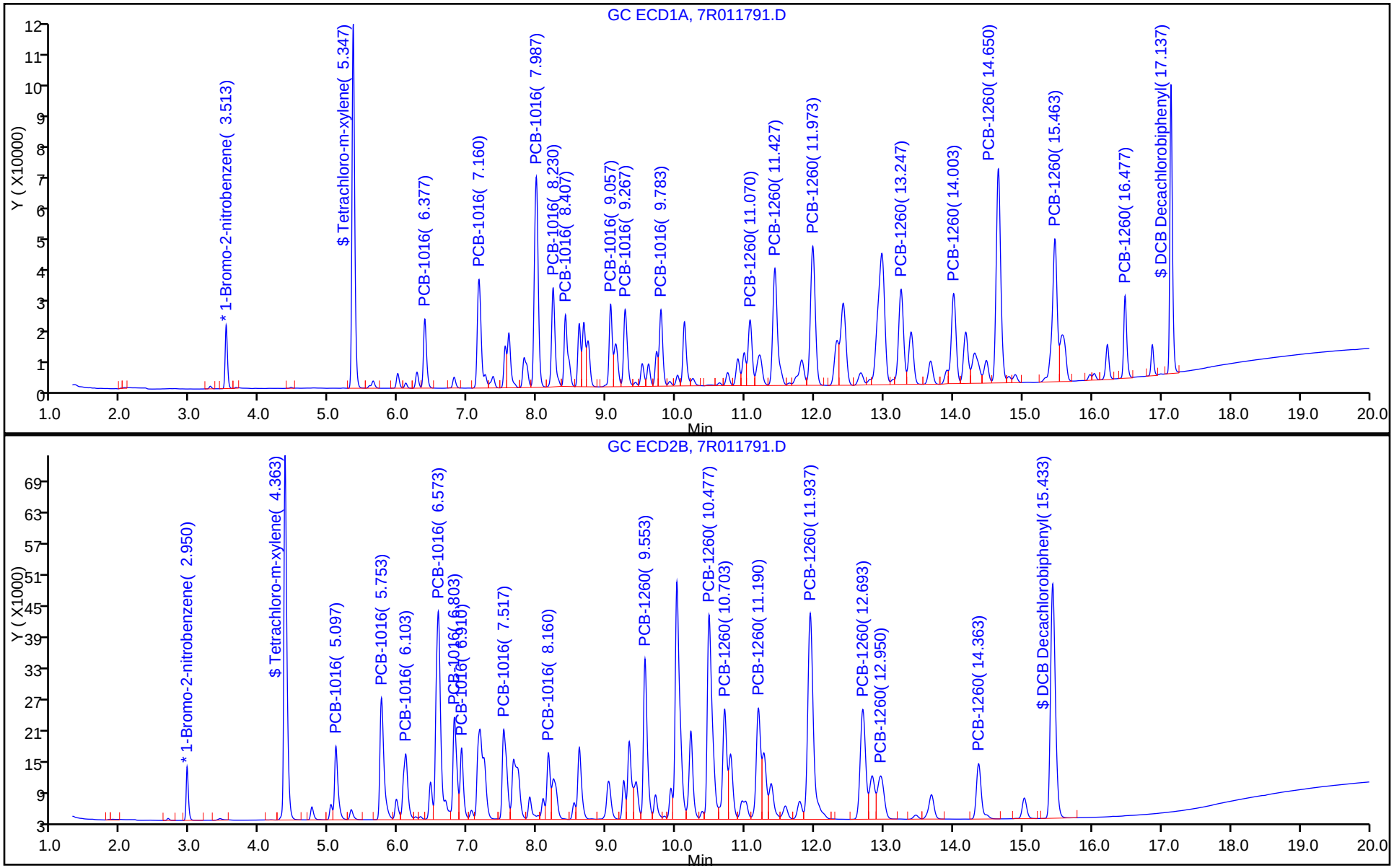
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:42 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D

Injection Date:	27-Dec-2017 13:28:15	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

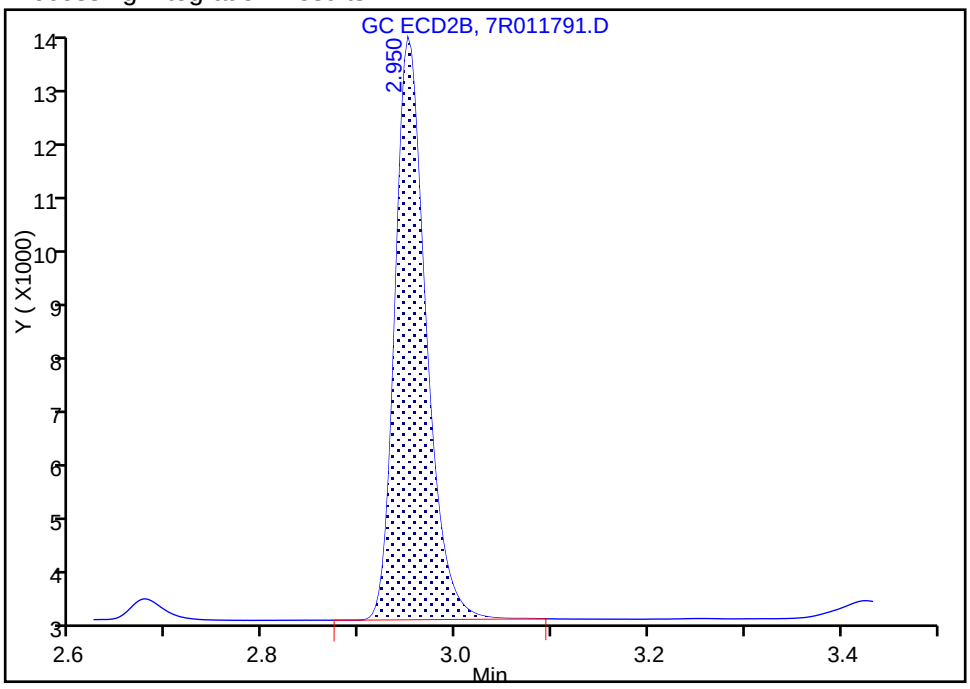
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D
Injection Date: 27-Dec-2017 13:28:15 Instrument ID: CPESTGC7
Lims ID: IC PCB 4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

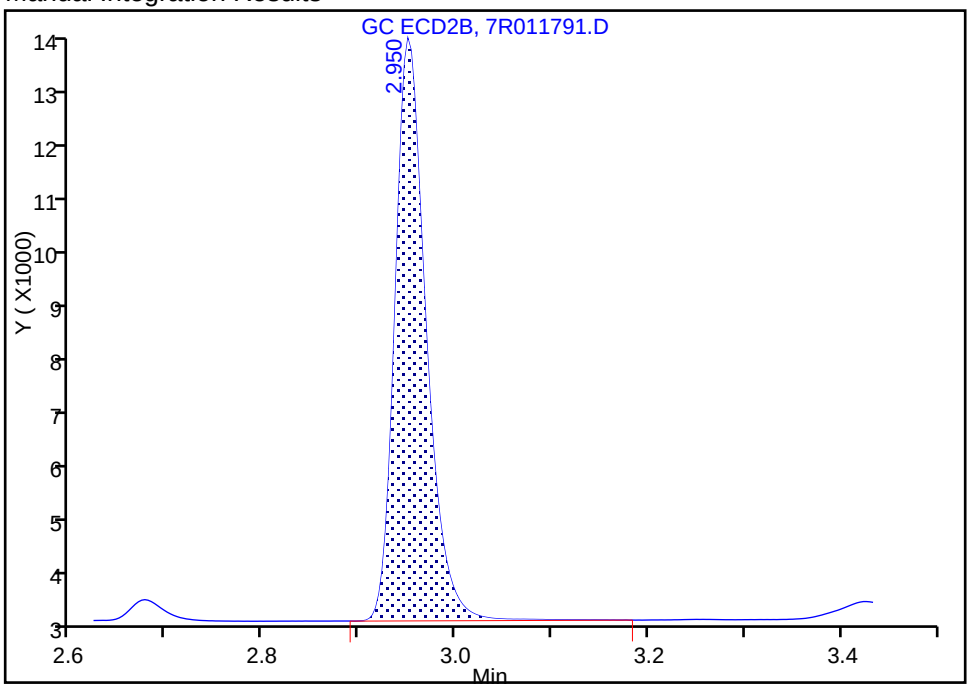
Processing Integration Results

RT: 2.95
Area: 22990
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 23108
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:17:10
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:45:43 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D

Injection Date: 27-Dec-2017 13:28:15 Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

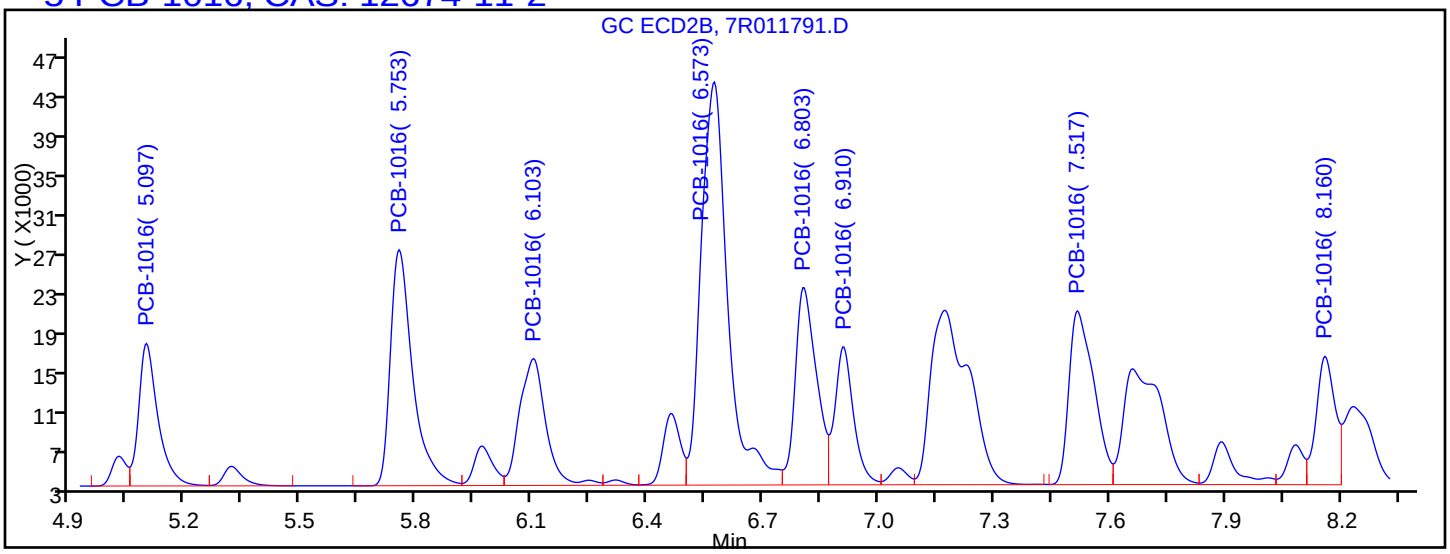
Operator ID: ALS Bottle#: 8 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

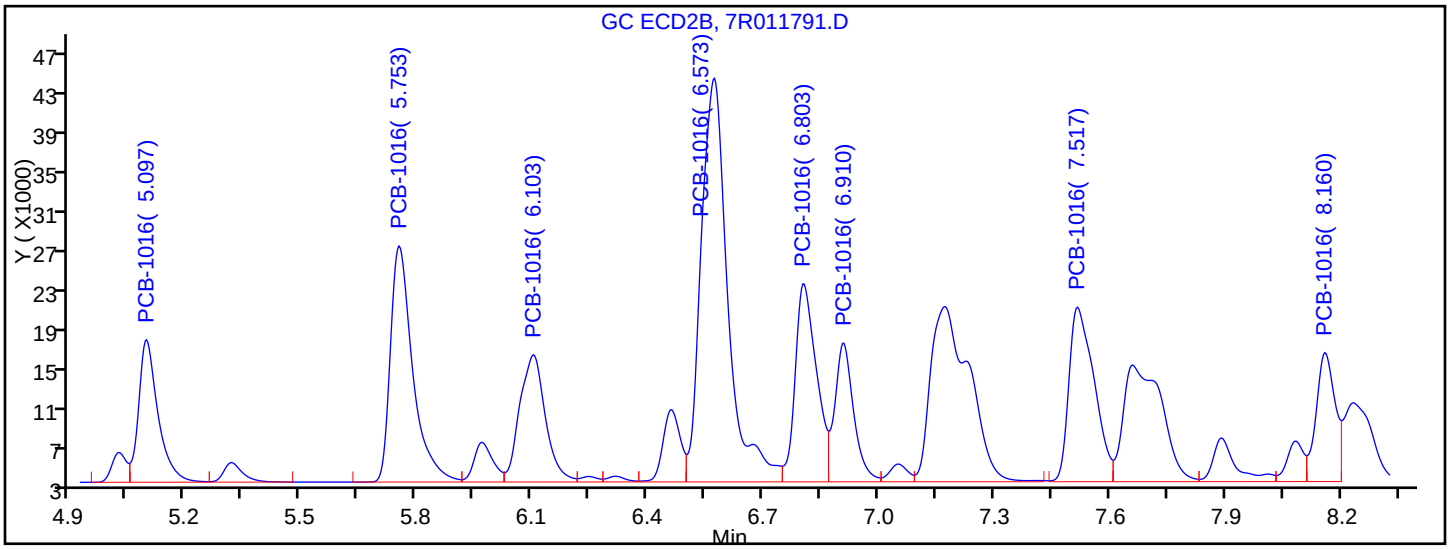
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.097	Response = 49393
5.753	Response = 94557
6.103	Response = 59903
6.573	Response = 193918
6.803	Response = 75192
6.910	Response = 46543
7.517	Response = 78162
8.160	Response = 43542



Manual Integration Results

5.097	Response = 49393	
5.753	Response = 94718	M
6.103	Response = 58741	M
6.573	Response = 194796	M
6.803	Response = 75689	M
6.910	Response = 47162	M

Report Date: 28-Dec-2017 12:45:43 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D

Injection Date: 27-Dec-2017 13:28:15 Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

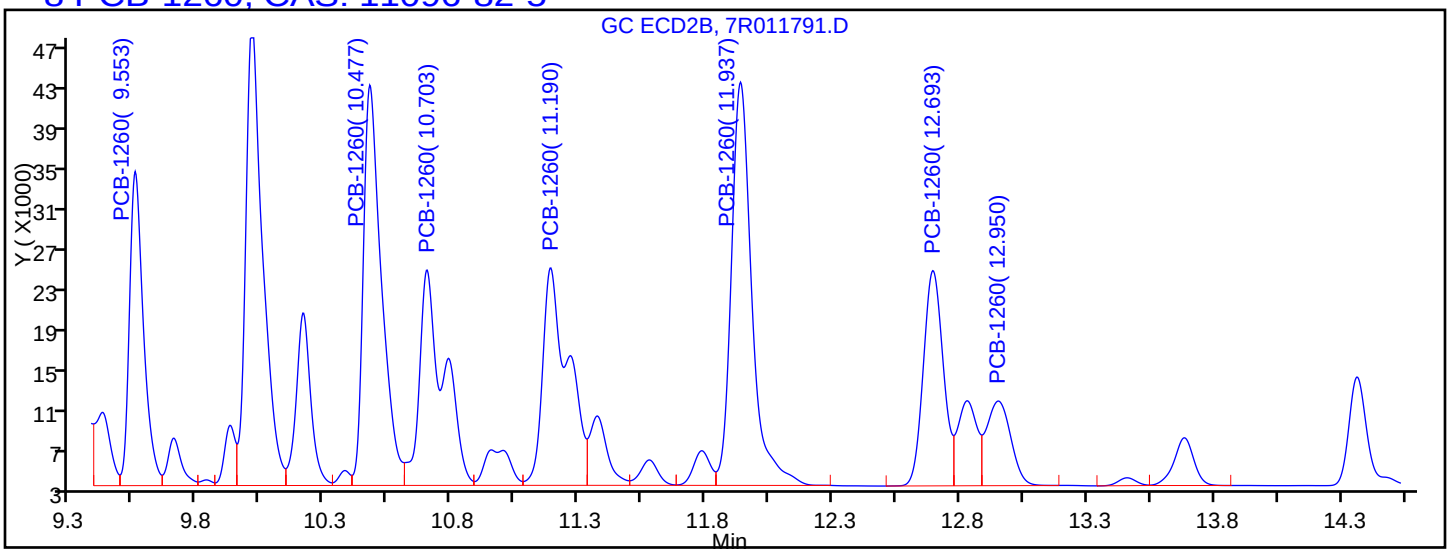
Operator ID: ALS Bottle#: 8 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

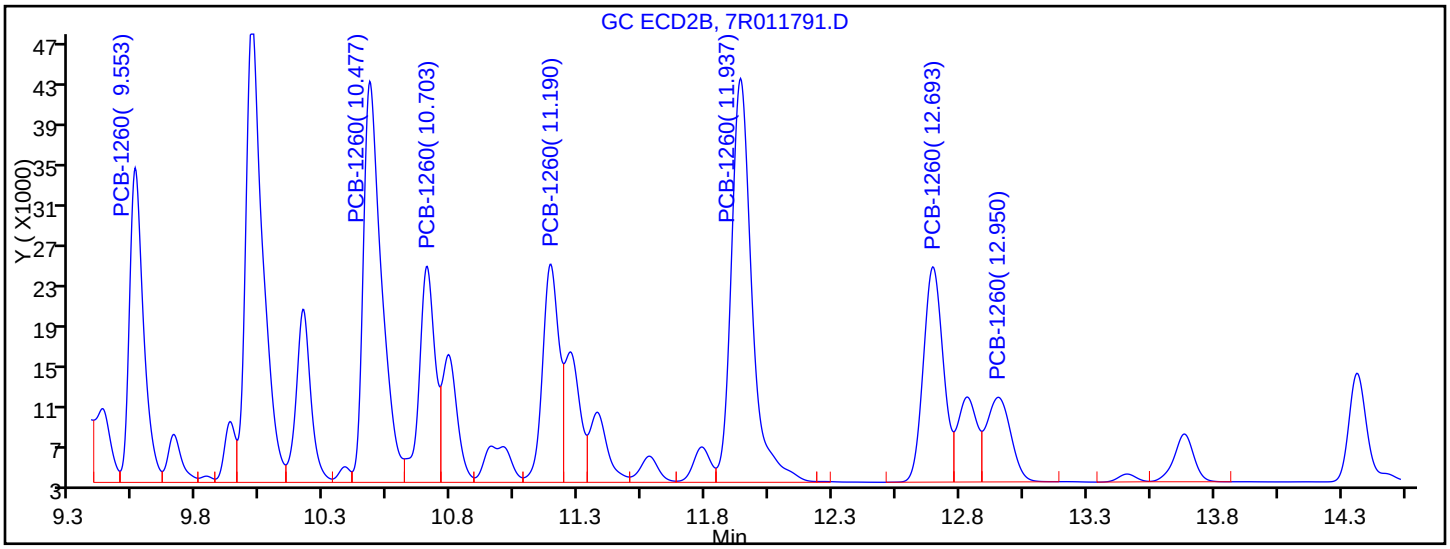
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.553	Response = 118979
10.477	Response = 196517
10.703	Response = 141658
11.190	Response = 149525
11.937	Response = 222842
12.693	Response = 116065
12.950	Response = 55069
14.363	Response = 53934



Manual Integration Results

9.553	Response = 119494	M
10.477	Response = 197360	M
10.703	Response = 92244	M
11.190	Response = 97143	M
11.937	Response = 224306	M
12.693	Response = 116065	

Manual Integration/User Assign Peak Report

TestAmerica Edison

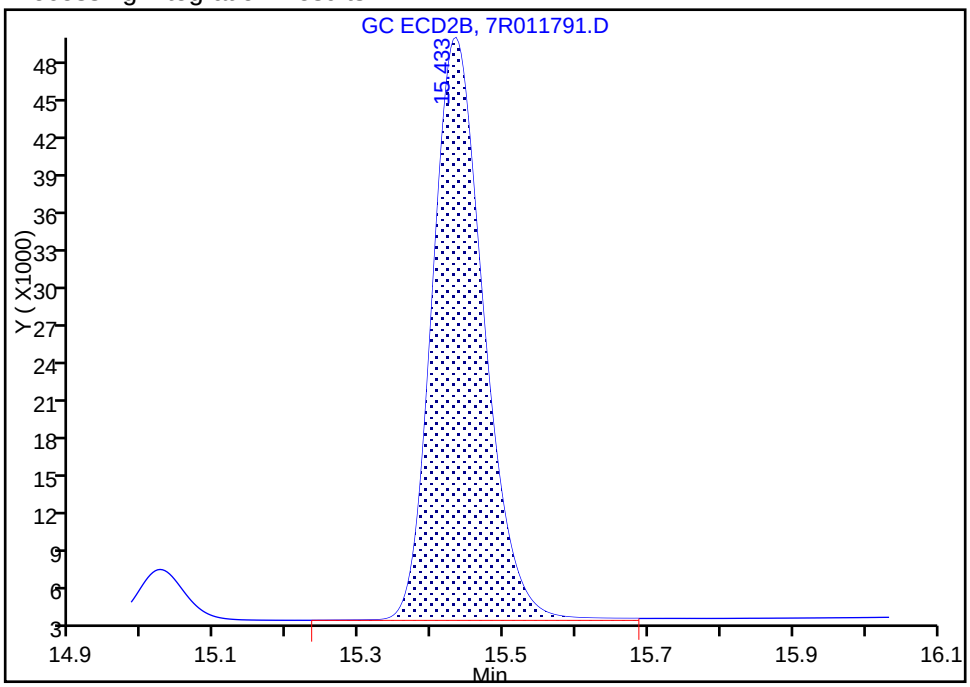
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011791.D
Injection Date: 27-Dec-2017 13:28:15 Instrument ID: CPESTGC7
Lims ID: IC PCB 4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

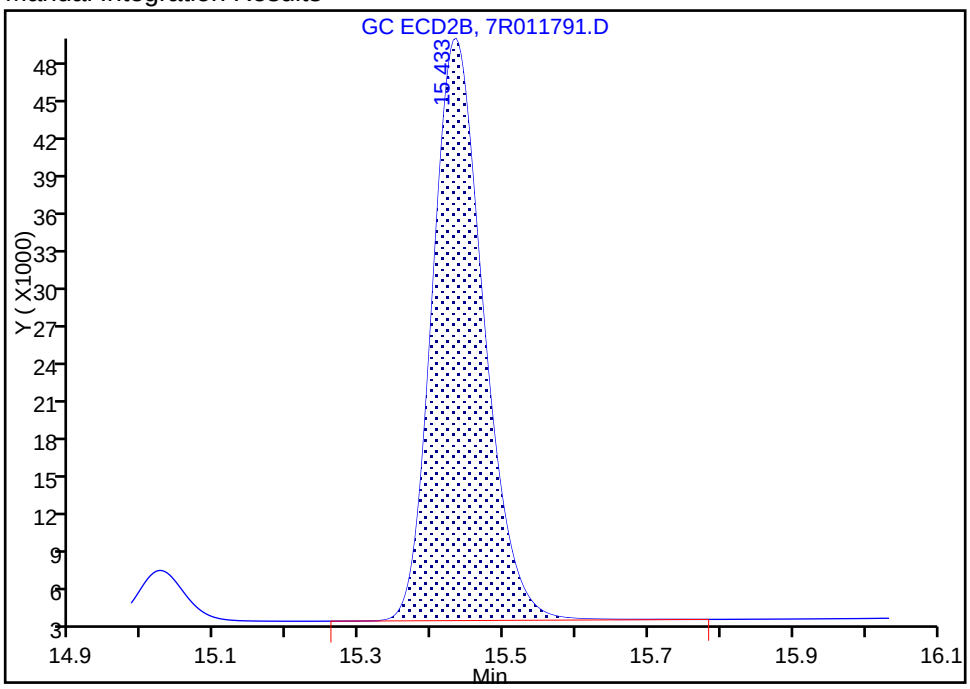
Processing Integration Results

RT: 15.43
Area: 223115
Amount: 149.0630
Amount Units: ug/l



Manual Integration Results

RT: 15.43
Area: 221492
Amount: 149.5792
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:19:15
Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Dec-2017 13:51:49 ALS Bottle#: 9 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-005
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:49 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 14:14:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43628	20.0	20.0	
2	2.950	2.950	0.000	23132	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	5.347	5.347	0.000	447358	200.0	225.4	
2	4.363	4.363	0.000	333681	200.0	246.4	M
						RPD = 8.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.380	6.380	0.000	110696	2500.0	2441.5	
1	7.160	7.160	0.000	230918	2500.0	2459.8	
1	7.987	7.987	0.000	428515	2500.0	2420.0	M
1	8.230	8.230	0.000	189448	2500.0	2487.6	M
1	8.407	8.407	0.000	152319	2500.0	2587.4	M
1	9.057	9.060	-0.003	138643	2500.0	2386.5	M
1	9.267	9.267	0.000	155929	2500.0	2593.7	
1	9.783	9.783	0.000	137934	2500.0	2371.1	
		Average of Peak Amounts =				2468.4	
2	5.097	5.097	0.000	88342	2500.0	2534.2	M
2	5.753	5.753	0.000	169166	2500.0	2497.5	M
2	6.103	6.103	0.000	109304	2500.0	2699.1	M
2	6.573	6.573	0.000	357011	2500.0	2719.0	M
2	6.807	6.807	0.000	138630	2500.0	2633.0	M
2	6.910	6.910	0.000	91292	2500.0	2856.9	M
2	7.517	7.517	0.000	146319	2500.0	2640.7	M
2	8.160	8.163	-0.003	80213	2500.0	2574.5	M
		Average of Peak Amounts =				2644.3	
						RPD = 6.88	
8 PCB-1260							M
1	11.067	11.070	-0.003	144290	2500.0	2493.8	M
1	11.427	11.427	0.000	296611	2500.0	2467.1	M
1	11.973	11.973	0.000	357056	2500.0	2479.3	M
1	13.243	13.247	-0.004	264238	2500.0	2582.5	M
1	14.003	14.007	-0.004	231967	2500.0	2560.5	
1	14.647	14.650	-0.003	529910	2500.0	2603.9	
1	15.463	15.467	-0.004	386313	2500.0	2671.1	
1	16.477	16.477	0.000	134600	2500.0	2540.8	
		Average of Peak Amounts =				2549.9	
2	9.553	9.553	0.000	215692	2500.0	2586.1	M
2	10.477	10.480	-0.003	372695	2500.0	2805.2	M
2	10.700	10.703	-0.003	163918	2500.0	2598.9	M
2	11.187	11.190	-0.003	177507	2500.0	2712.6	M
2	11.937	11.937	0.000	422655	2500.0	2813.0	M
2	12.697	12.693	0.004	223196	2500.0	2924.5	M
2	12.953	12.953	0.000	107255	2500.0	2816.7	M
2	14.363	14.367	-0.004	104659	2500.0	2889.2	
		Average of Peak Amounts =				2768.3	
						RPD = 8.21	
$ 11 DCB Decachlorobiphenyl							M
1	17.137	17.140	-0.003	328748	200.0	213.4	
2	15.430	15.433	-0.003	334895	200.0	225.9	M
						RPD = 5.72	
S 12 Polychlorinated biphenyls, Total							
1						5018.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

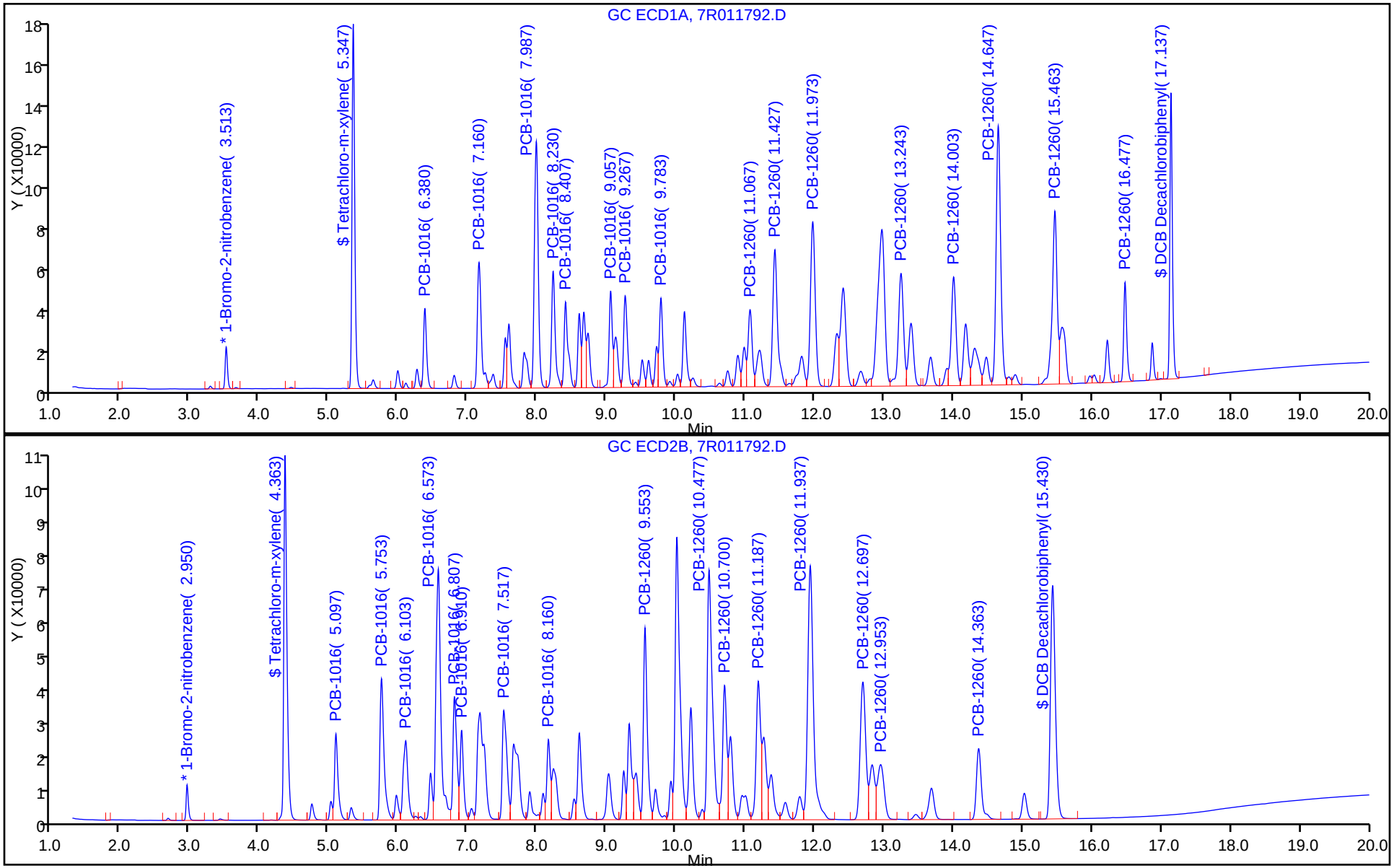
SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:45:54 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

Injection Date:	27-Dec-2017 13:51:49	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC PCB 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

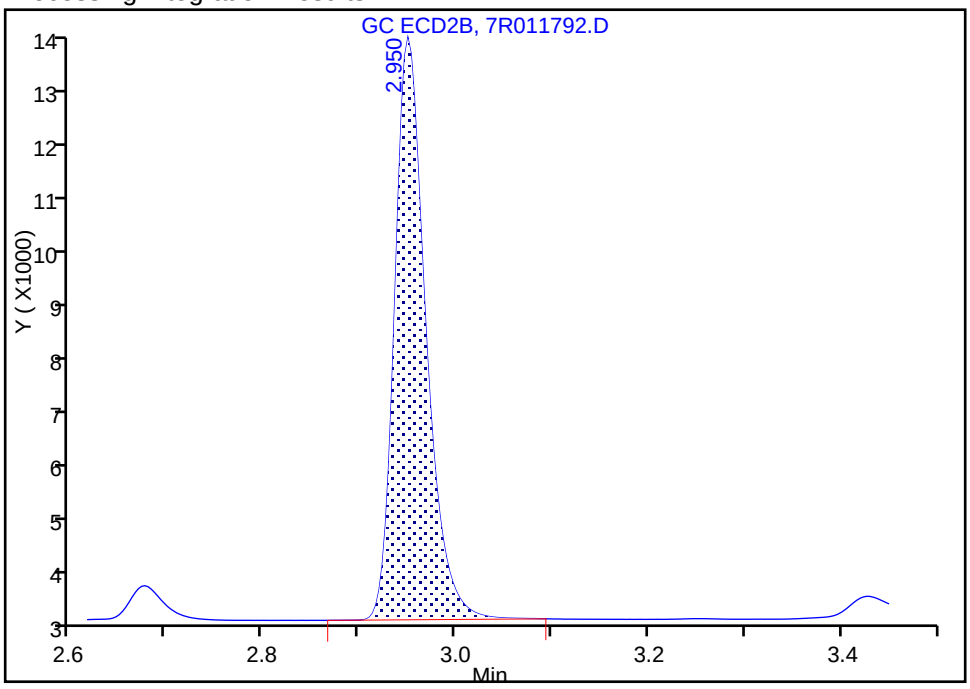
Data File:	\\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D				
Injection Date:	27-Dec-2017 13:51:49	Instrument ID:	CPESTGC7		
Lims ID:	IC PCB 5				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

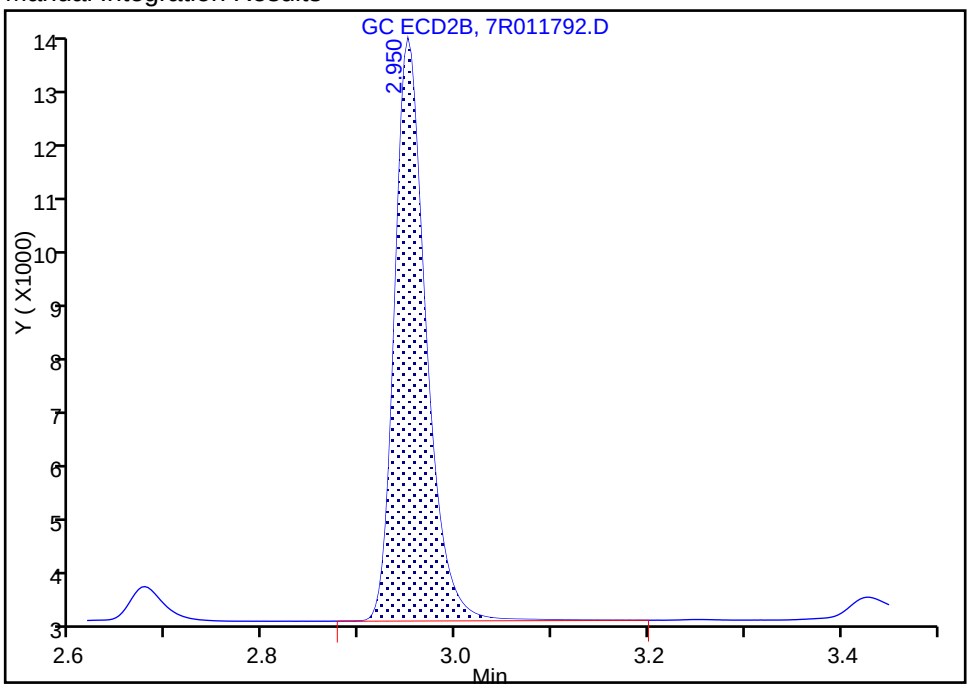
Processing Integration Results

RT: 2.95
Area: 22975
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 23132
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:16:10

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

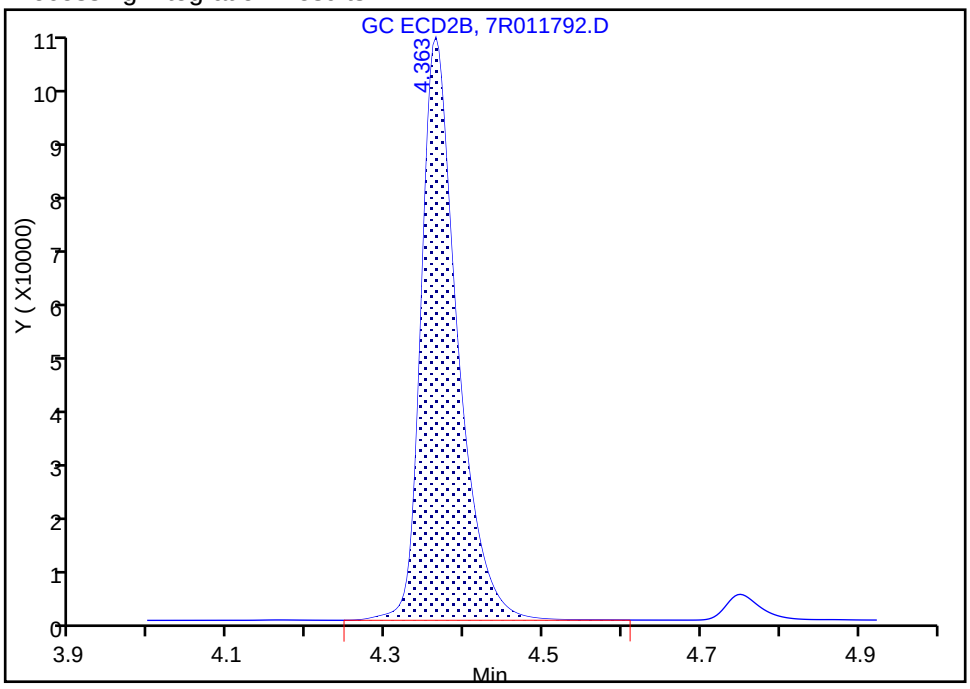
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D
Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7
Lims ID: IC PCB 5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

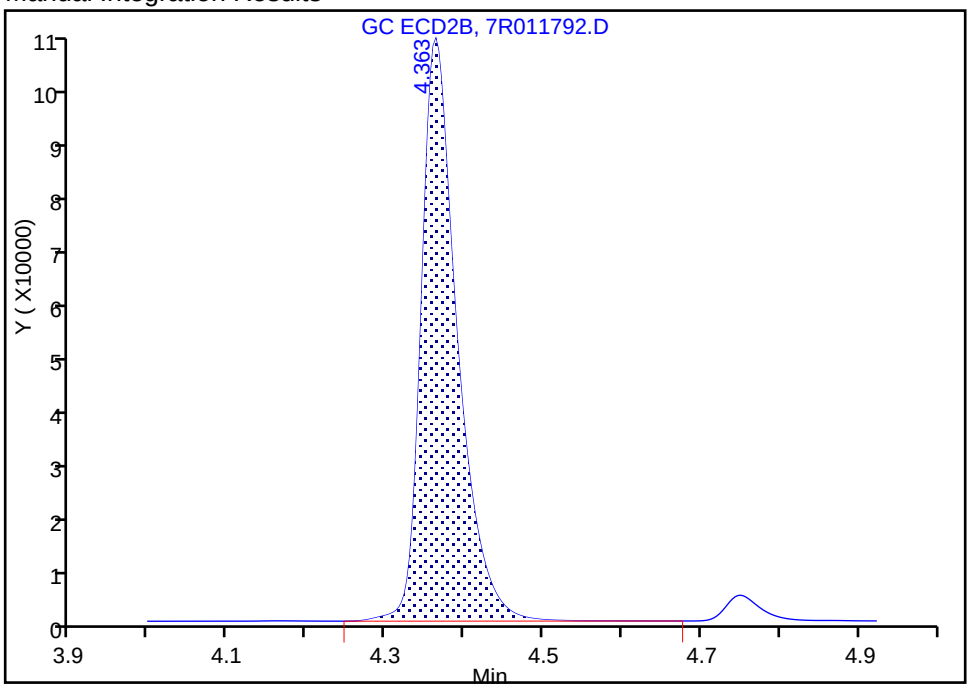
Processing Integration Results

RT: 4.36
Area: 333536
Amount: 247.3665
Amount Units: ug/l



Manual Integration Results

RT: 4.36
Area: 333681
Amount: 246.4007
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:25:43
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 28-Dec-2017 12:45:54 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

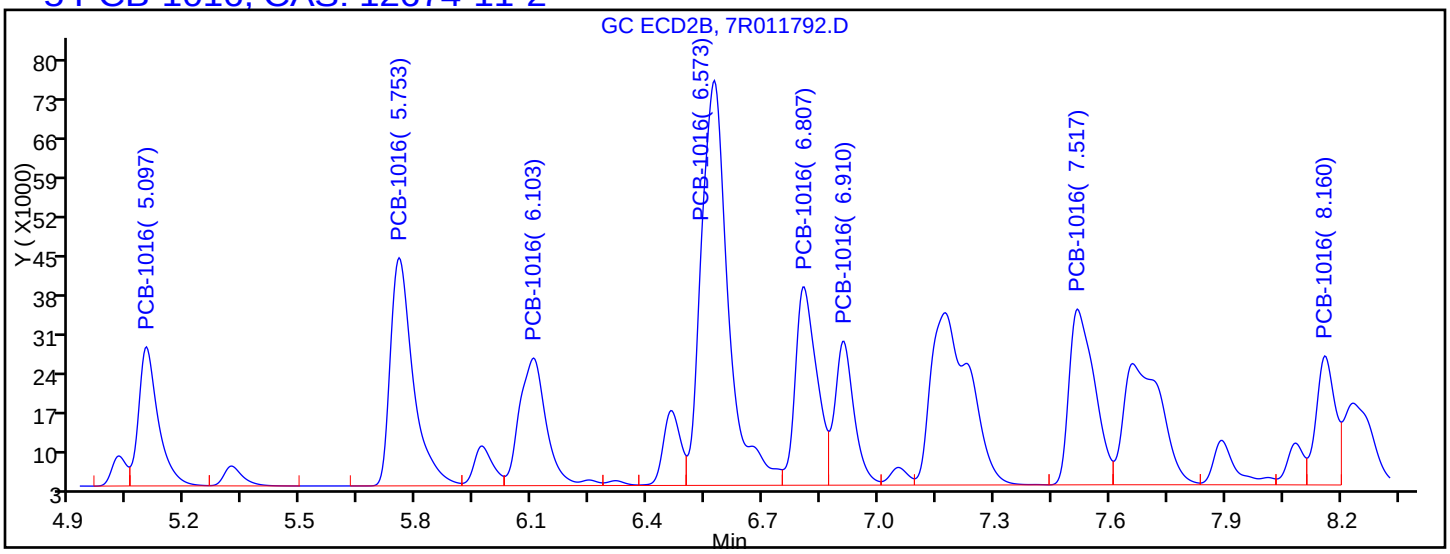
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

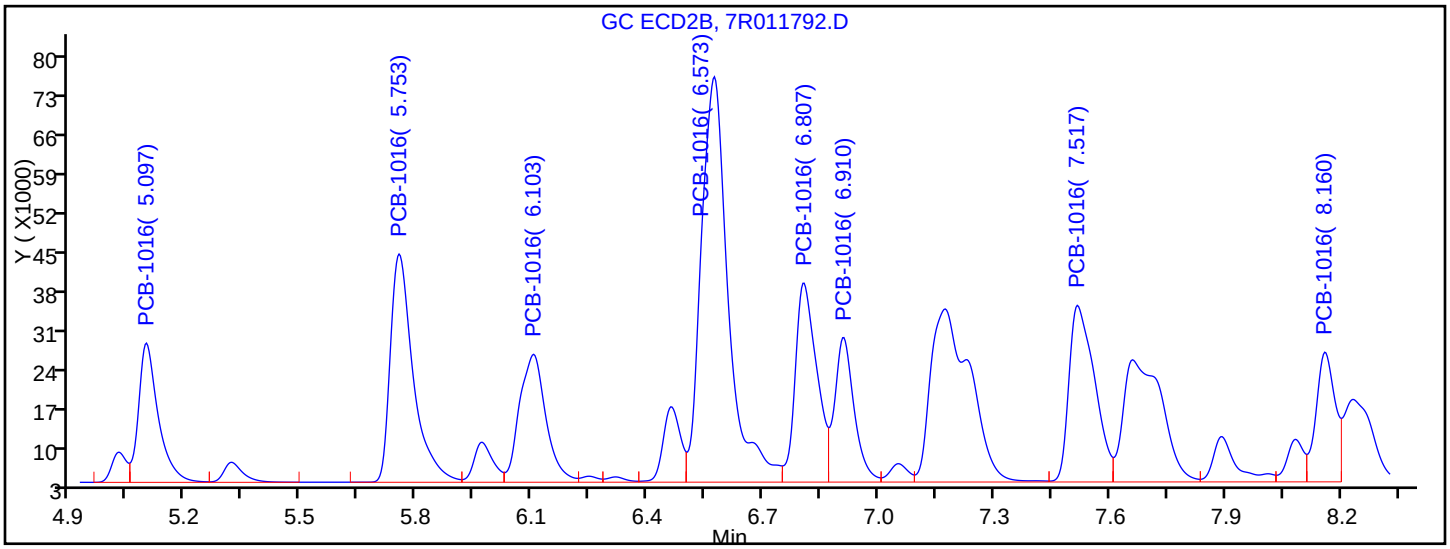
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.097	Response = 87914
5.753	Response = 168661
6.103	Response = 111508
6.573	Response = 355511
6.807	Response = 137805
6.910	Response = 90275
7.517	Response = 144704
8.160	Response = 79562



Manual Integration Results

5.097	Response = 88342	M
5.753	Response = 169166	M
6.103	Response = 109304	M
6.573	Response = 357011	M
6.807	Response = 138630	M
6.910	Response = 91292	M

Report Date: 28-Dec-2017 12:45:54 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D

Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

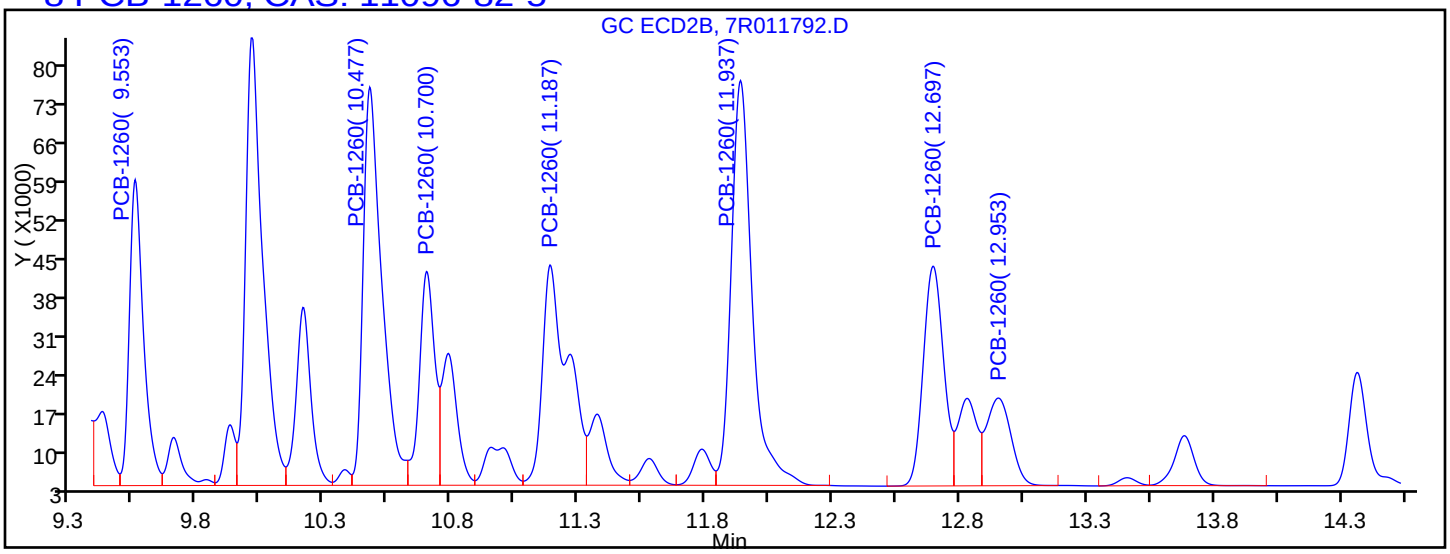
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

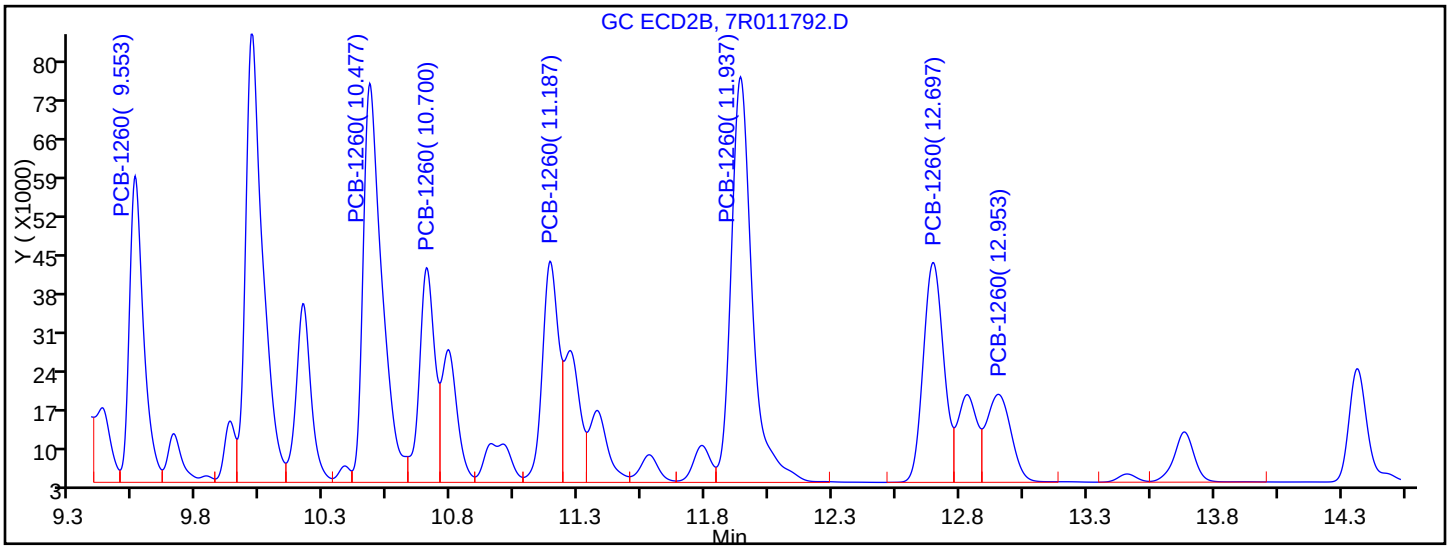
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.553	Response = 214817
10.477	Response = 370788
10.700	Response = 162770
11.187	Response = 277704
11.937	Response = 418957
12.697	Response = 222880
12.953	Response = 106121
14.363	Response = 104659



Manual Integration Results

9.553	Response = 215692	M
10.477	Response = 372695	M
10.700	Response = 163918	M
11.187	Response = 177507	M
11.937	Response = 422655	M
12.697	Response = 223196	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

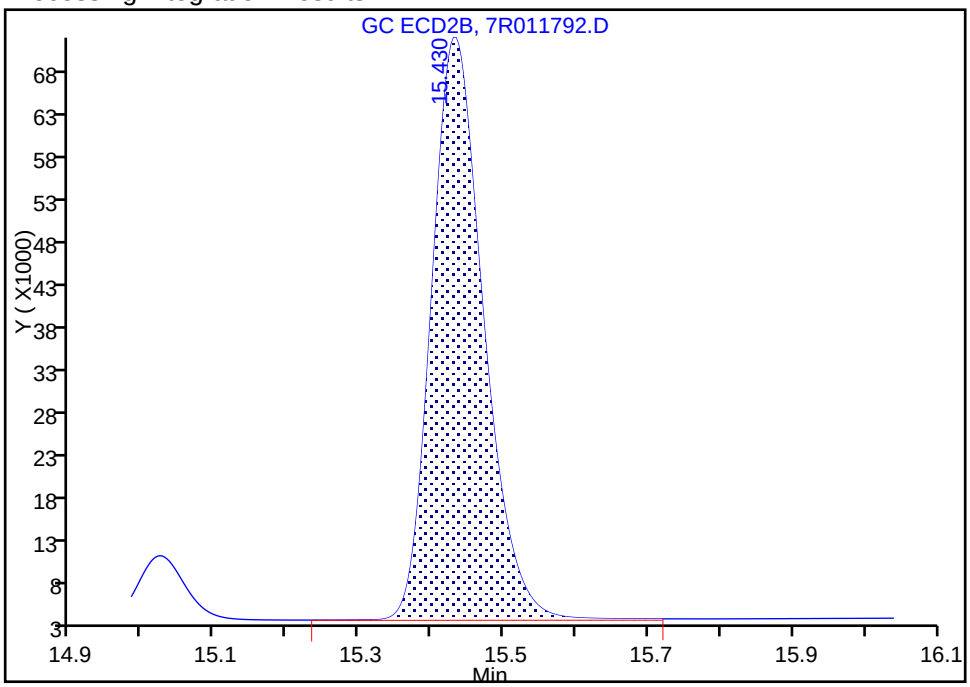
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011792.D
Injection Date: 27-Dec-2017 13:51:49 Instrument ID: CPESTGC7
Lims ID: IC PCB 5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

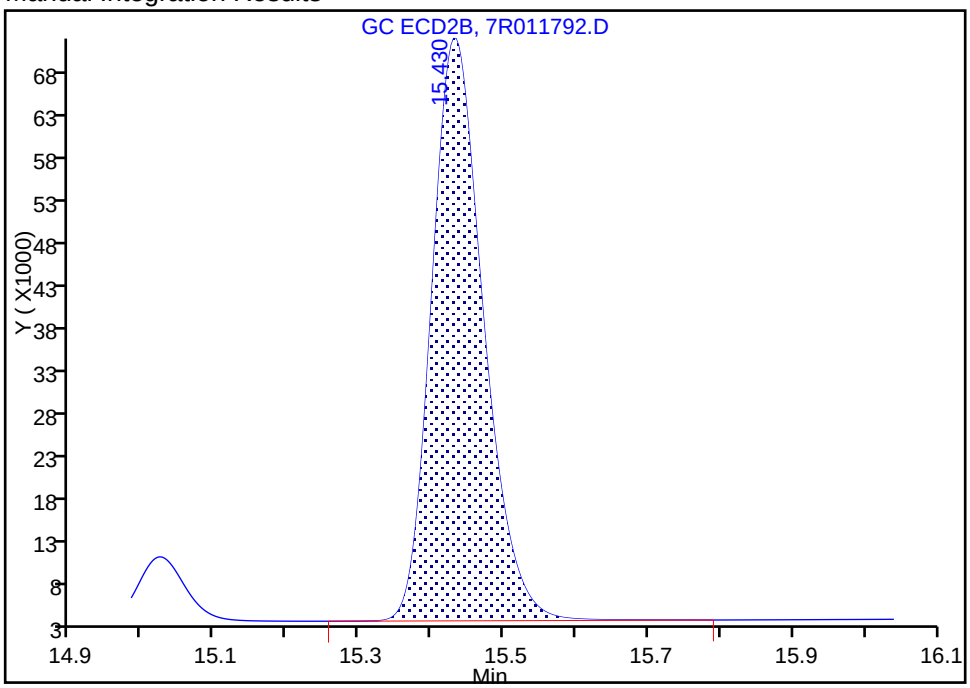
Processing Integration Results

RT: 15.43
Area: 337009
Amount: 225.2476
Amount Units: ug/l



Manual Integration Results

RT: 15.43
Area: 334895
Amount: 225.9286
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 14:19:26
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 14:39 Calibration End Date: 12/27/2017 14:39 Calibration ID: 65792

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/8	7R011794.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0087					Ave		0.0087						20.0			0.9900
PCB-1221 Peak 2	0.0124					Ave		0.0124						20.0			0.9900
PCB-1221 Peak 3	0.0084					Ave		0.0084						20.0			0.9900
PCB-1221 Peak 4	0.0288					Ave		0.0288						20.0			0.9900
PCB-1221 Peak 5	0.0061					Ave		0.0061						20.0			0.9900
PCB-1221 Peak 6	0.0063					Ave		0.0063						20.0			0.9900
PCB-1221 Peak 7	0.0031					Ave		0.0031						20.0			0.9900
PCB-1221 Peak 8	0.0018					Ave		0.0018						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 14:39 Calibration End Date: 12/27/2017 14:39 Calibration ID: 65792

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/8	7R011794.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	19117					1000				
PCB-1221 Peak 2	BNB	Ave	27057					1000				
PCB-1221 Peak 3	BNB	Ave	18318					1000				
PCB-1221 Peak 4	BNB	Ave	63063					1000				
PCB-1221 Peak 5	BNB	Ave	13250					1000				
PCB-1221 Peak 6	BNB	Ave	13752					1000				
PCB-1221 Peak 7	BNB	Ave	6696					1000				
PCB-1221 Peak 8	BNB	Ave	3839					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 14:39:01 ALS Bottle#: 11 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-007
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:09 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43767	20.0	20.0	M
2	2.950	2.950	0.000	22884	20.0	20.0	
						RPD = 0.00	
1 PCB-1221							M
1	4.450	4.450	0.000	19117	1000.0	1000.0	a
1	5.990	5.990	0.000	27057	1000.0	1000.0	M
1	6.267	6.267	0.000	18318	1000.0	1000.0	M
1	6.380	6.380	0.000	63063	1000.0	1000.0	M
1	7.253	7.253	0.000	13250	1000.0	1000.0	M
1	7.990	7.990	0.000	13752	1000.0	1000.0	M
1	8.233	8.233	0.000	6696	1000.0	1000.0	M
1	8.407	8.407	0.000	3839	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.427	3.427	0.000	16078	1000.0	1000.0	a
2	4.750	4.750	0.000	17080	1000.0	1000.0	a
2	5.027	5.027	0.000	10333	1000.0	1000.0	a
2	5.097	5.097	0.000	48487	1000.0	1000.0	a
2	5.760	5.760	0.000	4965	1000.0	1000.0	M
2	5.973	5.973	0.000	10535	1000.0	1000.0	a
2	6.577	6.577	0.000	7673	1000.0	1000.0	M
2	6.807	6.807	0.000	3415	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

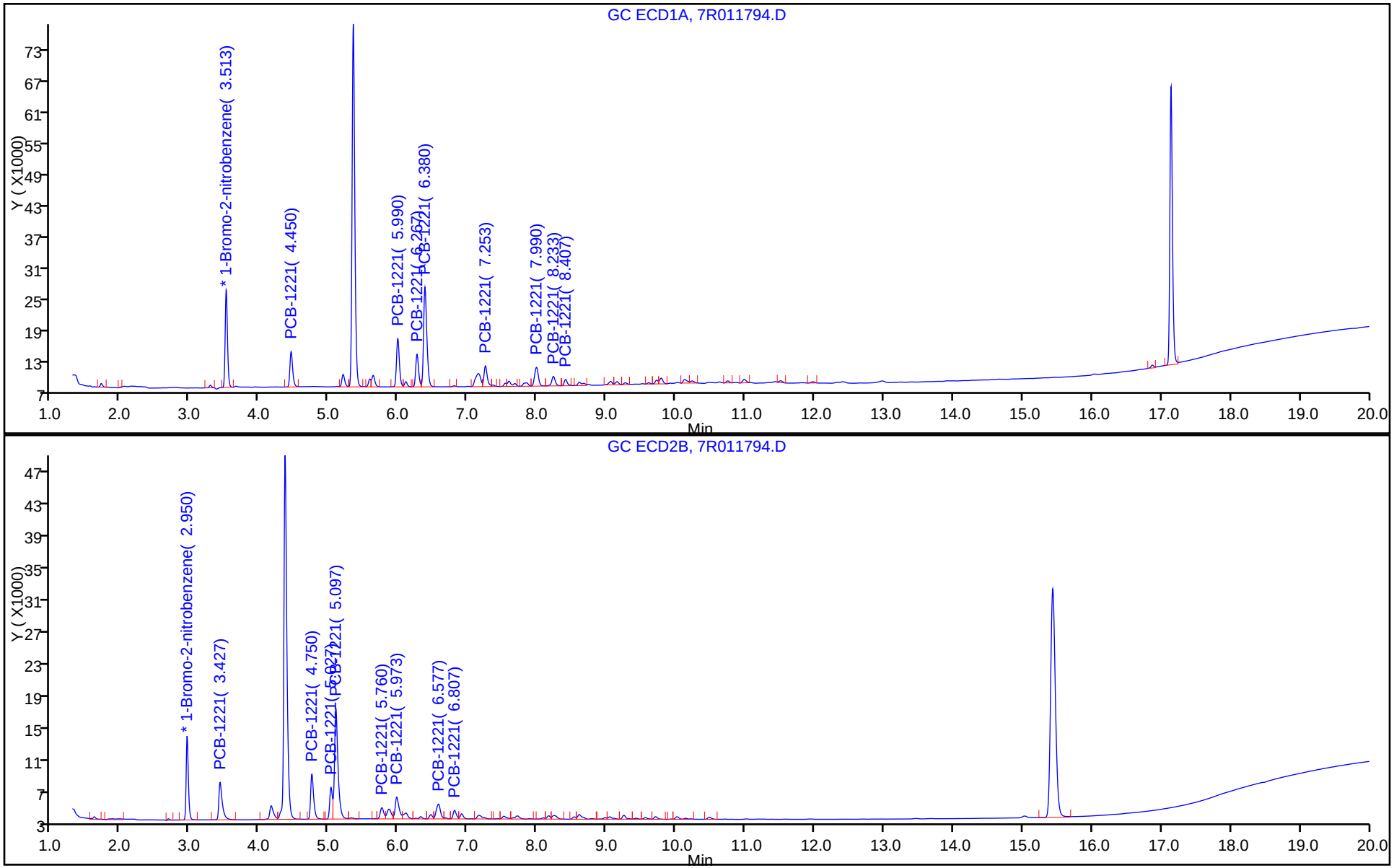
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:11 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D

Injection Date:	27-Dec-2017 14:39:01	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

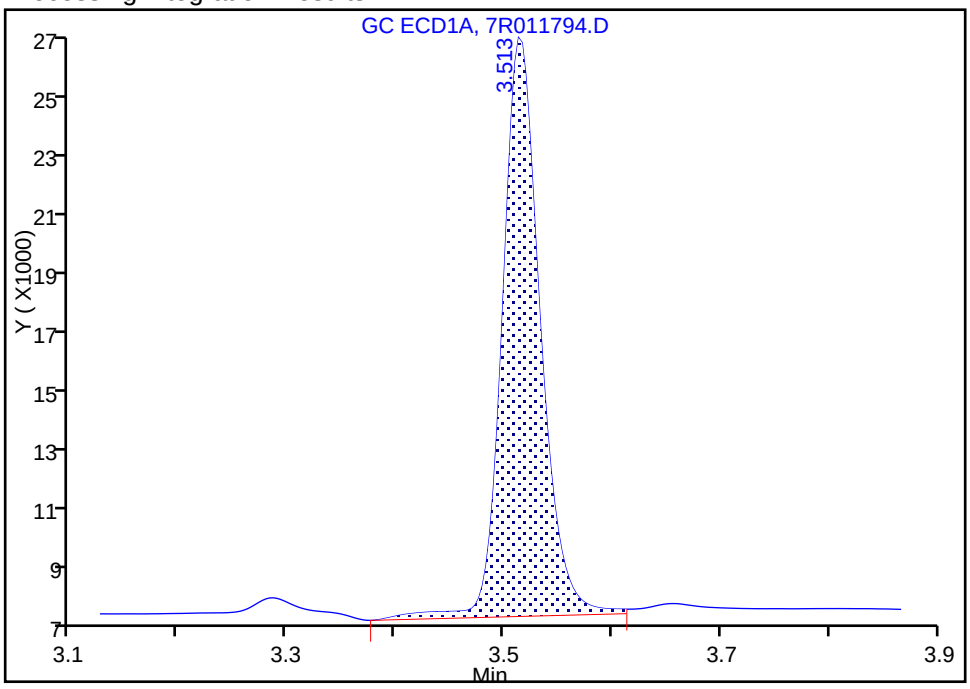
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D
Injection Date: 27-Dec-2017 14:39:01 Instrument ID: CPESTGC7
Lims ID: IC 1221
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

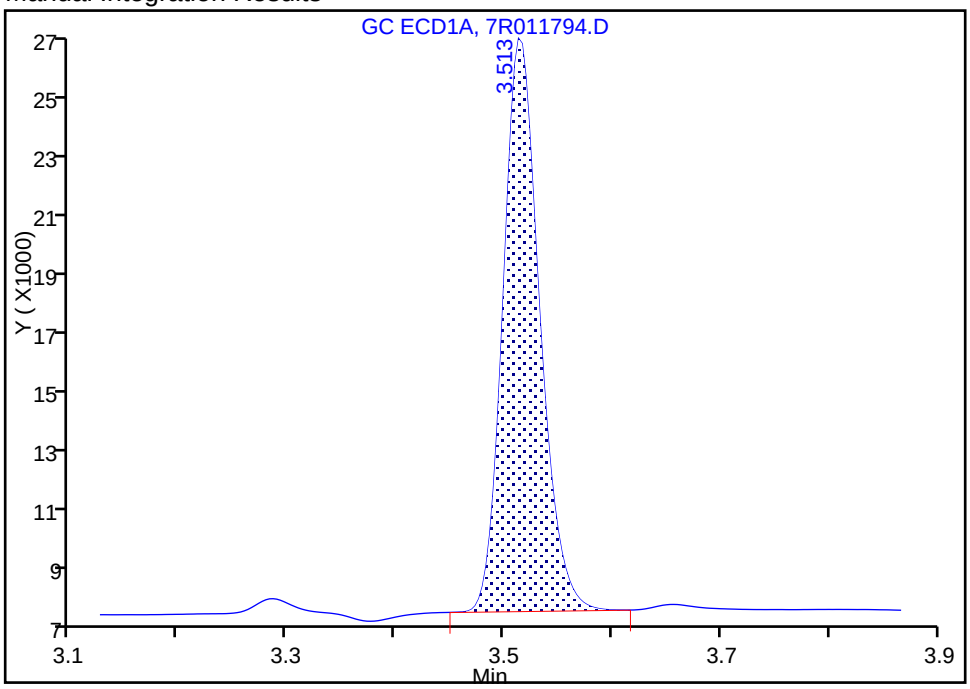
Processing Integration Results

RT: 3.51
Area: 46161
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.51
Area: 43767
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 15:31:28
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:46:11 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D

Injection Date: 27-Dec-2017 14:39:01 Instrument ID: CPESTGC7

Lims ID: IC 1221

Client ID:

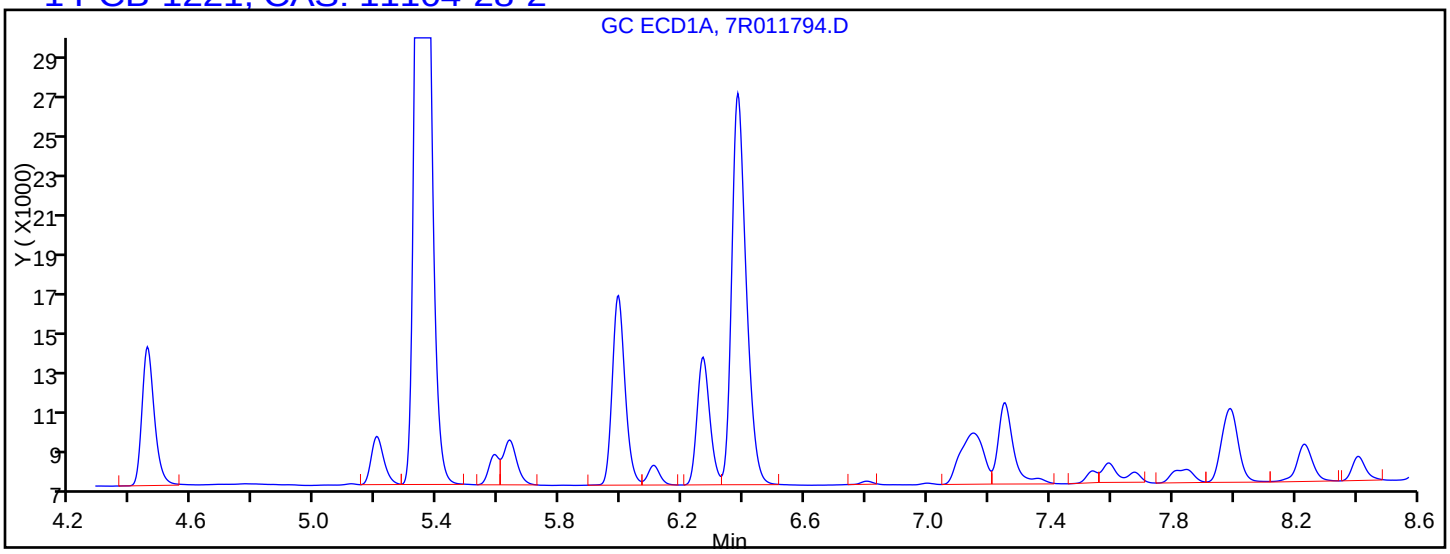
Operator ID: ALS Bottle#: 11 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

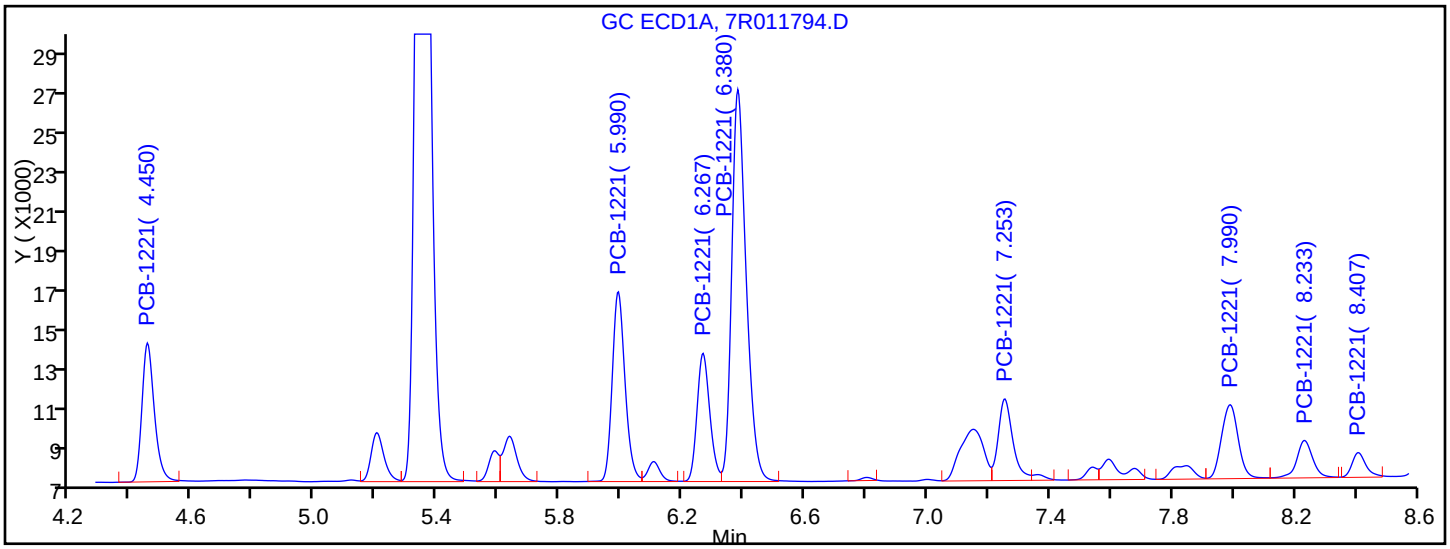
Column: Detector GC ECD1A

1 PCB-1221, CAS: 11104-28-2



Processing Integration Results

4.450	Response = 0
5.990	Response = 0
6.103	Response = 2623
6.267	Response = 18159
7.253	Response = 0
7.847	Response = 3207
7.990	Response = 13701
8.233	Response = 6589



Manual Integration Results

4.450	Response = 19117	M
5.990	Response = 27057	M
6.267	Response = 18318	M
6.380	Response = 63063	M
7.253	Response = 13250	M
7.990	Response = 13752	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 14:39 Calibration End Date: 12/27/2017 14:39 Calibration ID: 65793

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/8	7R011794.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0141					Ave		0.0141						20.0			0.9900
PCB-1221 Peak 2	0.0149					Ave		0.0149						20.0			0.9900
PCB-1221 Peak 3	0.0090					Ave		0.0090						20.0			0.9900
PCB-1221 Peak 4	0.0424					Ave		0.0424						20.0			0.9900
PCB-1221 Peak 5	0.0043					Ave		0.0043						20.0			0.9900
PCB-1221 Peak 6	0.0092					Ave		0.0092						20.0			0.9900
PCB-1221 Peak 7	0.0067					Ave		0.0067						20.0			0.9900
PCB-1221 Peak 8	0.0030					Ave		0.0030						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 14:39 Calibration End Date: 12/27/2017 14:39 Calibration ID: 65793

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/8	7R011794.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	16078					1000				
PCB-1221 Peak 2	BNB	Ave	17080					1000				
PCB-1221 Peak 3	BNB	Ave	10333					1000				
PCB-1221 Peak 4	BNB	Ave	48487					1000				
PCB-1221 Peak 5	BNB	Ave	4965					1000				
PCB-1221 Peak 6	BNB	Ave	10535					1000				
PCB-1221 Peak 7	BNB	Ave	7673					1000				
PCB-1221 Peak 8	BNB	Ave	3415					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 14:39:01 ALS Bottle#: 11 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-007
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:09 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	43767	20.0	20.0	M
2	2.950	2.950	0.000	22884	20.0	20.0	
						RPD = 0.00	
1 PCB-1221							M
1	4.450	4.450	0.000	19117	1000.0	1000.0	a
1	5.990	5.990	0.000	27057	1000.0	1000.0	M
1	6.267	6.267	0.000	18318	1000.0	1000.0	M
1	6.380	6.380	0.000	63063	1000.0	1000.0	M
1	7.253	7.253	0.000	13250	1000.0	1000.0	M
1	7.990	7.990	0.000	13752	1000.0	1000.0	M
1	8.233	8.233	0.000	6696	1000.0	1000.0	M
1	8.407	8.407	0.000	3839	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.427	3.427	0.000	16078	1000.0	1000.0	a
2	4.750	4.750	0.000	17080	1000.0	1000.0	a
2	5.027	5.027	0.000	10333	1000.0	1000.0	a
2	5.097	5.097	0.000	48487	1000.0	1000.0	a
2	5.760	5.760	0.000	4965	1000.0	1000.0	M
2	5.973	5.973	0.000	10535	1000.0	1000.0	a
2	6.577	6.577	0.000	7673	1000.0	1000.0	M
2	6.807	6.807	0.000	3415	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

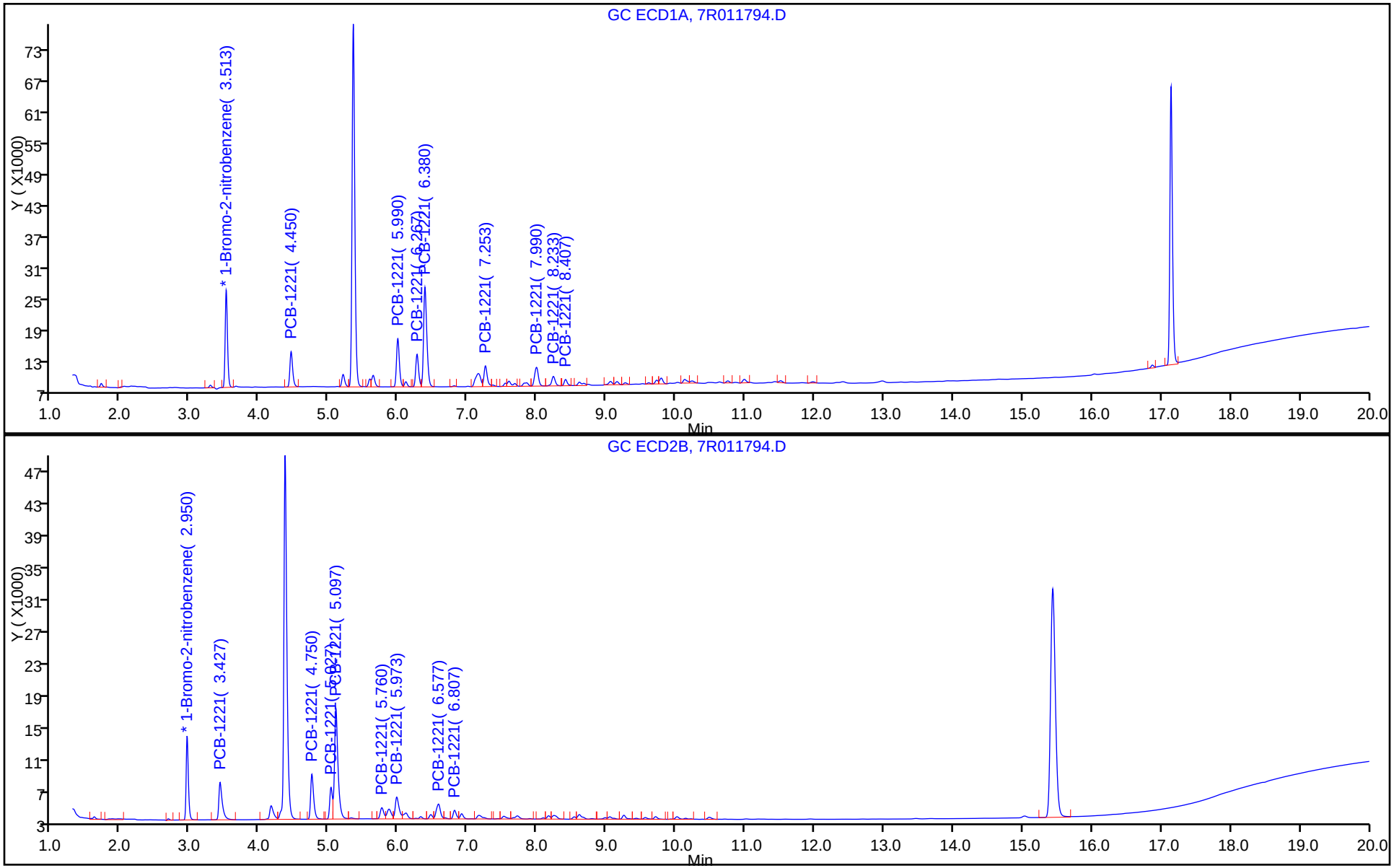
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:11 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D

Injection Date:	27-Dec-2017 14:39:01	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:11 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011794.D

Injection Date: 27-Dec-2017 14:39:01 Instrument ID: CPESTGC7

Lims ID: IC 1221

Client ID:

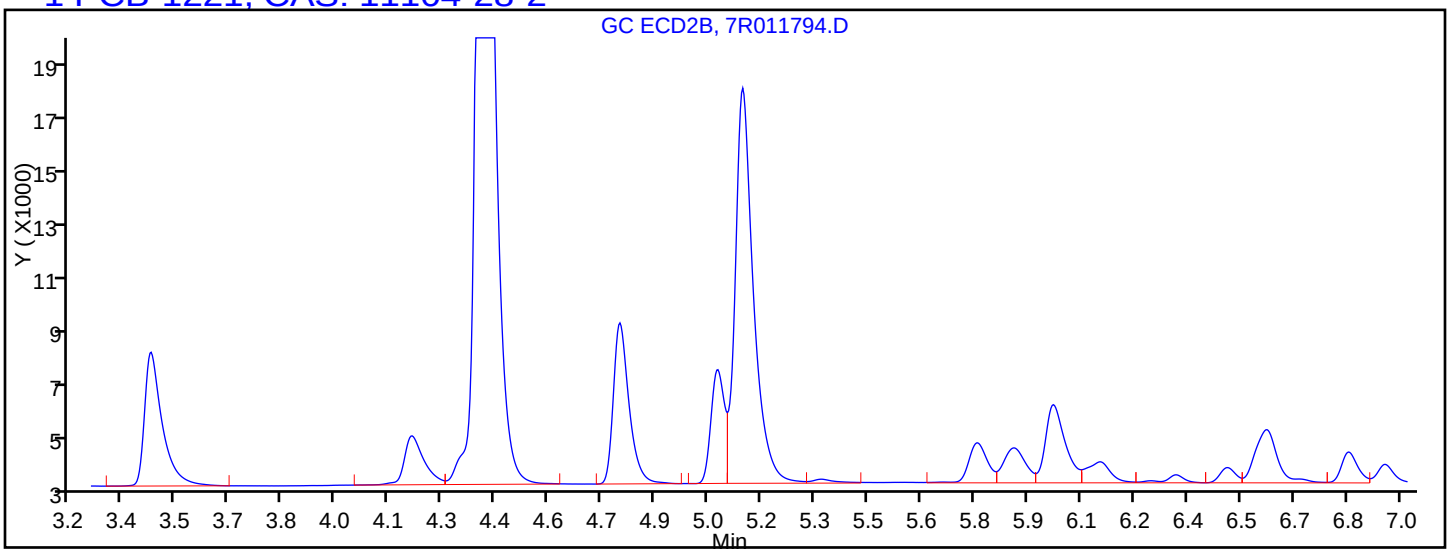
Operator ID: ALS Bottle#: 11 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

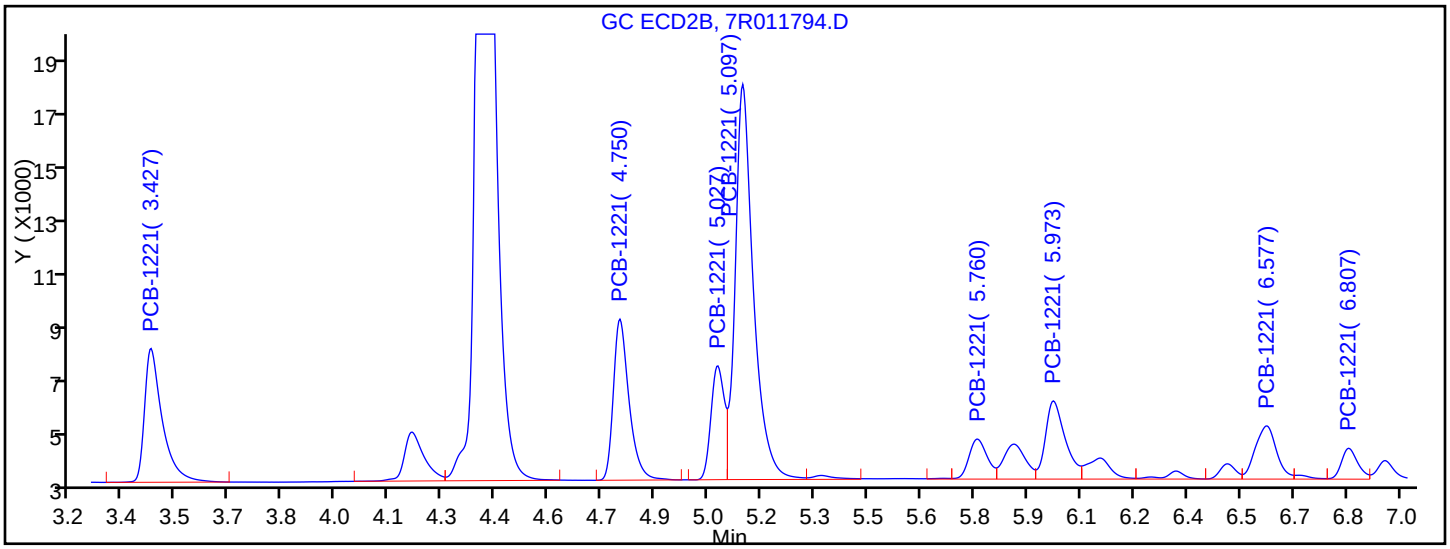
Column: Detector GC ECD2B

1 PCB-1221, CAS: 11104-28-2



Processing Integration Results

3.427	Response = 0
4.750	Response = 0
4.750	Response = 17080
5.097	Response = 0
5.760	Response = 0
5.760	Response = 5052
6.320	Response = 1022
6.577	Response = 8073



Manual Integration Results

3.427	Response = 16078	M
4.750	Response = 17080	M
5.027	Response = 10333	M
5.097	Response = 48487	M
5.760	Response = 4965	M
5.973	Response = 10535	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:02 Calibration End Date: 12/27/2017 15:02 Calibration ID: 65798

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/9	7R011795.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0237					Ave		0.0237						20.0			0.9900
PCB-1232 Peak 2	0.0197					Ave		0.0197						20.0			0.9900
PCB-1232 Peak 3	0.0375					Ave		0.0375						20.0			0.9900
PCB-1232 Peak 4	0.0163					Ave		0.0163						20.0			0.9900
PCB-1232 Peak 5	0.0123					Ave		0.0123						20.0			0.9900
PCB-1232 Peak 6	0.0111					Ave		0.0111						20.0			0.9900
PCB-1232 Peak 7	0.0111					Ave		0.0111						20.0			0.9900
PCB-1232 Peak 8	0.0134					Ave		0.0134						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:02 Calibration End Date: 12/27/2017 15:02 Calibration ID: 65798

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/9	7R011795.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	53278					1000				
PCB-1232 Peak 2	BNB	Ave	44304					1000				
PCB-1232 Peak 3	BNB	Ave	84115					1000				
PCB-1232 Peak 4	BNB	Ave	36627					1000				
PCB-1232 Peak 5	BNB	Ave	27560					1000				
PCB-1232 Peak 6	BNB	Ave	24977					1000				
PCB-1232 Peak 7	BNB	Ave	24830					1000				
PCB-1232 Peak 8	BNB	Ave	29982					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:02:23 ALS Bottle#: 12 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-008
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:13 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:28:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	44901	20.0	20.0	
2	2.950	2.950	0.000	23541	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	6.377	6.377	0.000	53278	1000.0	1000.0	
1	7.157	7.157	0.000	44304	1000.0	1000.0	
1	7.987	7.987	0.000	84115	1000.0	1000.0	M
1	8.227	8.227	0.000	36627	1000.0	1000.0	M
1	8.407	8.407	0.000	27560	1000.0	1000.0	M
1	9.057	9.057	0.000	24977	1000.0	1000.0	M
1	9.720	9.720	0.000	24830	1000.0	1000.0	M
1	9.790	9.790	0.000	29982	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.097	5.097	0.000	41106	1000.0	1000.0	
2	5.757	5.757	0.000	34309	1000.0	1000.0	
2	6.103	6.103	0.000	18966	1000.0	1000.0	M
2	6.573	6.573	0.000	55868	1000.0	1000.0	M
2	6.807	6.807	0.000	23472	1000.0	1000.0	
2	7.517	7.517	0.000	22047	1000.0	1000.0	
2	8.263	8.263	0.000	32738	1000.0	1000.0	M
2	8.597	8.597	0.000	14926	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

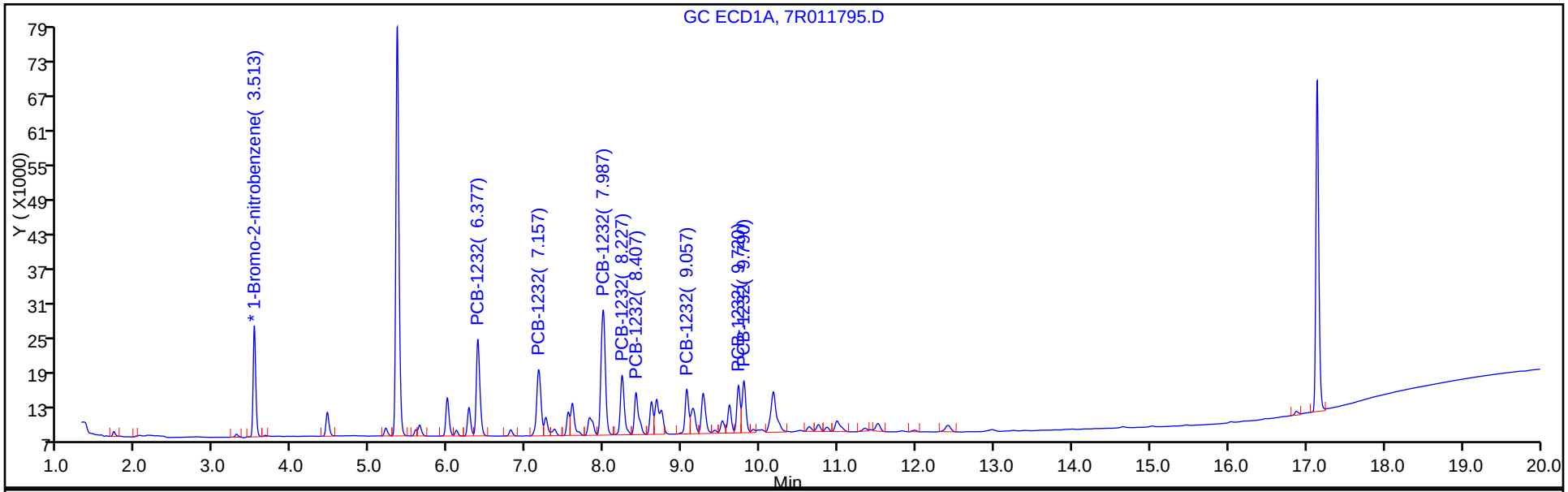
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

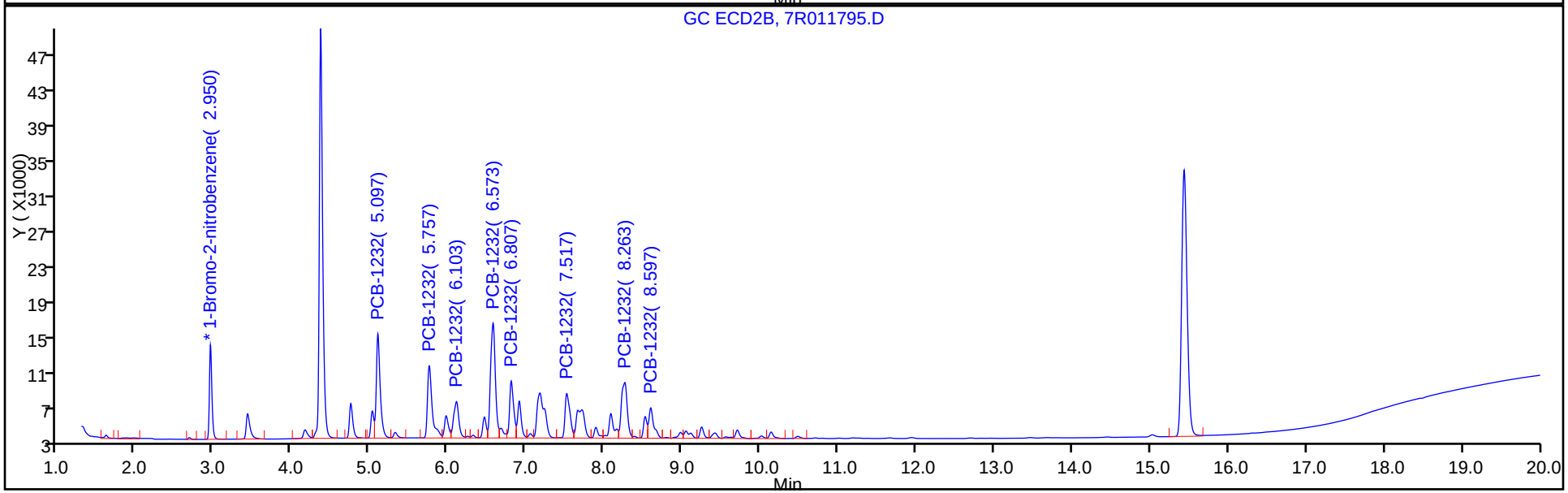
Report Date: 28-Dec-2017 12:46:15 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D

Injection Date:	27-Dec-2017 15:02:23	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 28-Dec-2017 12:46:15 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D

Injection Date: 27-Dec-2017 15:02:23 Instrument ID: CPESTGC7

Lims ID: IC 1232

Client ID:

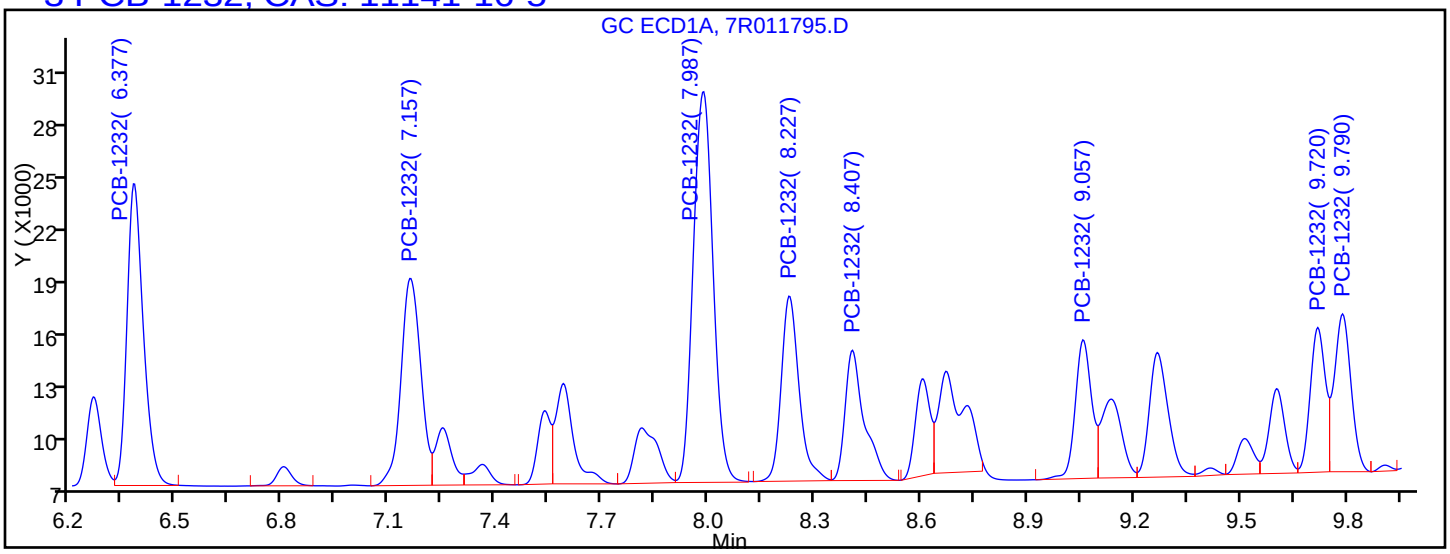
Operator ID: ALS Bottle#: 12 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

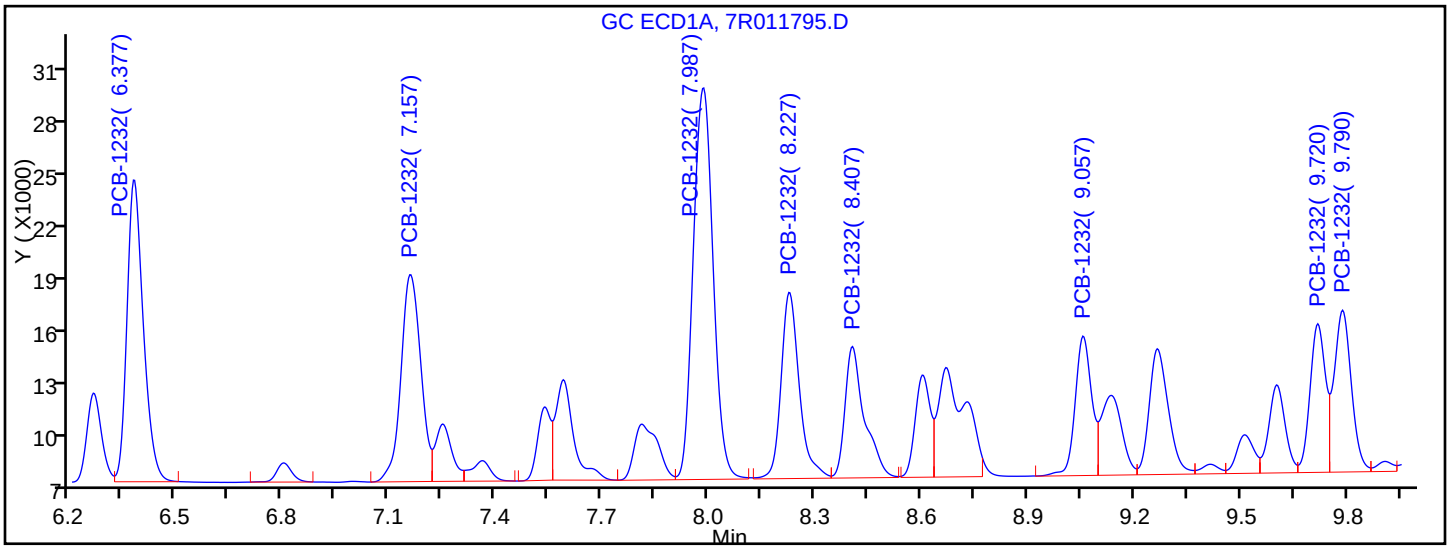
Column: Detector GC ECD1A

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

6.377	Response = 53278
7.157	Response = 44304
7.987	Response = 83607
8.227	Response = 35756
8.407	Response = 26893
9.057	Response = 24622
9.720	Response = 23696
9.790	Response = 28460



Manual Integration Results

6.377	Response = 53278	
7.157	Response = 44304	
7.987	Response = 84115	M
8.227	Response = 36627	M
8.407	Response = 27560	M
9.057	Response = 24977	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:02 Calibration End Date: 12/27/2017 15:02 Calibration ID: 65799

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/9	7R011795.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0349					Ave		0.0349						20.0			0.9900
PCB-1232 Peak 2	0.0291					Ave		0.0291						20.0			0.9900
PCB-1232 Peak 3	0.0161					Ave		0.0161						20.0			0.9900
PCB-1232 Peak 4	0.0475					Ave		0.0475						20.0			0.9900
PCB-1232 Peak 5	0.0199					Ave		0.0199						20.0			0.9900
PCB-1232 Peak 6	0.0187					Ave		0.0187						20.0			0.9900
PCB-1232 Peak 7	0.0278					Ave		0.0278						20.0			0.9900
PCB-1232 Peak 8	0.0127					Ave		0.0127						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:02 Calibration End Date: 12/27/2017 15:02 Calibration ID: 65799

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/9	7R011795.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	41106					1000				
PCB-1232 Peak 2	BNB	Ave	34309					1000				
PCB-1232 Peak 3	BNB	Ave	18966					1000				
PCB-1232 Peak 4	BNB	Ave	55868					1000				
PCB-1232 Peak 5	BNB	Ave	23472					1000				
PCB-1232 Peak 6	BNB	Ave	22047					1000				
PCB-1232 Peak 7	BNB	Ave	32738					1000				
PCB-1232 Peak 8	BNB	Ave	14926					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:02:23 ALS Bottle#: 12 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-008
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:13 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:28:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	3.513	3.513	0.000	44901	20.0	20.0	
2	2.950	2.950	0.000	23541	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	6.377	6.377	0.000	53278	1000.0	1000.0	
1	7.157	7.157	0.000	44304	1000.0	1000.0	
1	7.987	7.987	0.000	84115	1000.0	1000.0	M
1	8.227	8.227	0.000	36627	1000.0	1000.0	M
1	8.407	8.407	0.000	27560	1000.0	1000.0	M
1	9.057	9.057	0.000	24977	1000.0	1000.0	M
1	9.720	9.720	0.000	24830	1000.0	1000.0	M
1	9.790	9.790	0.000	29982	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.097	5.097	0.000	41106	1000.0	1000.0	
2	5.757	5.757	0.000	34309	1000.0	1000.0	
2	6.103	6.103	0.000	18966	1000.0	1000.0	M
2	6.573	6.573	0.000	55868	1000.0	1000.0	M
2	6.807	6.807	0.000	23472	1000.0	1000.0	
2	7.517	7.517	0.000	22047	1000.0	1000.0	
2	8.263	8.263	0.000	32738	1000.0	1000.0	M
2	8.597	8.597	0.000	14926	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

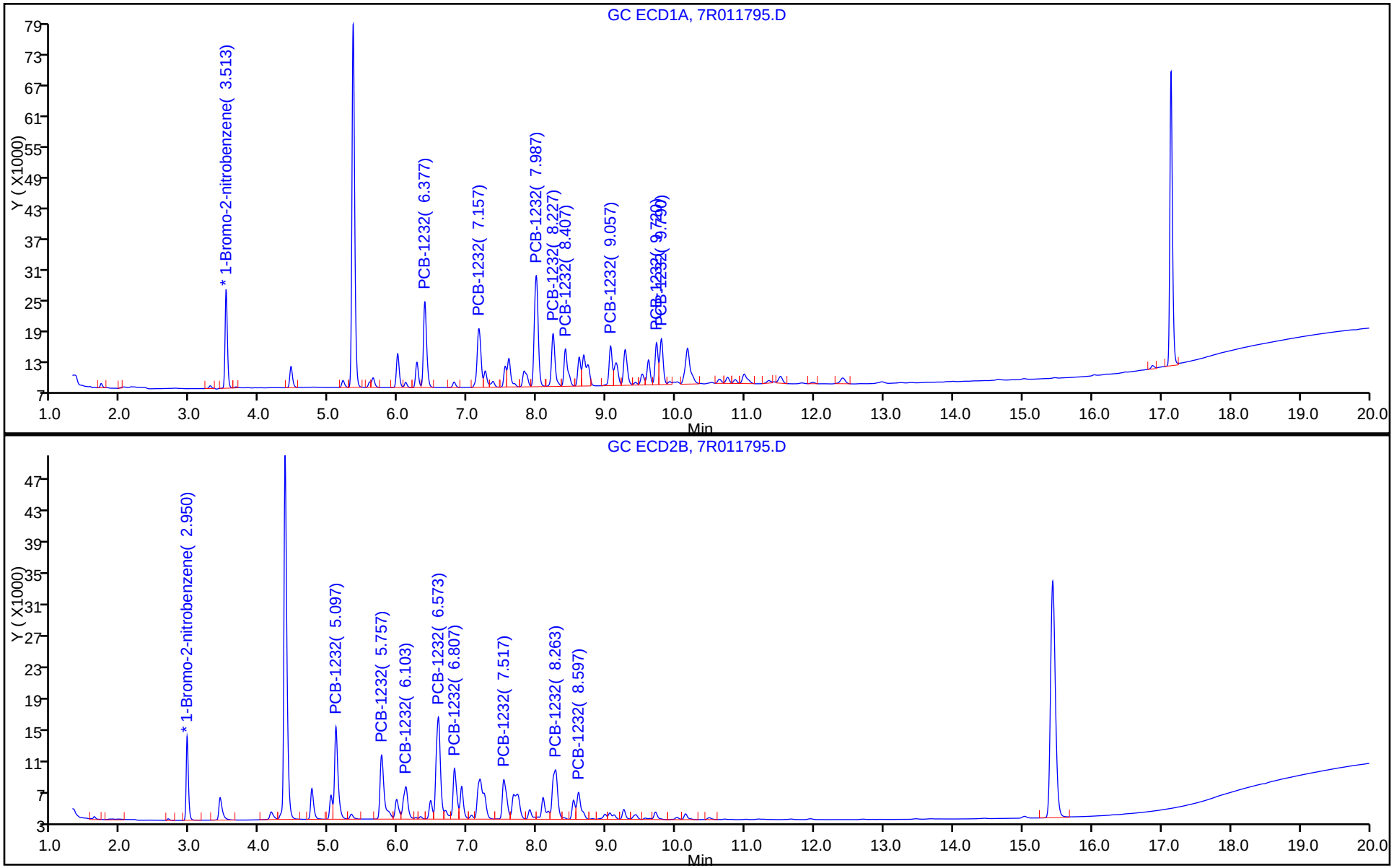
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:15 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D

Injection Date:	27-Dec-2017 15:02:23	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



TestAmerica Edison

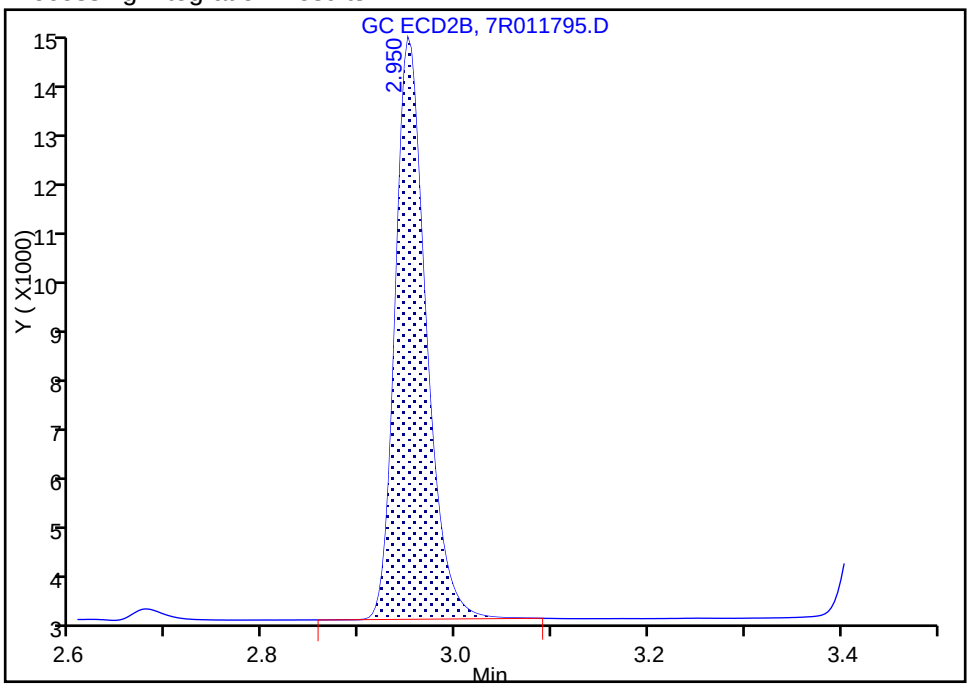
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D
Injection Date: 27-Dec-2017 15:02:23 Instrument ID: CPESTGC7
Lims ID: IC 1232
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

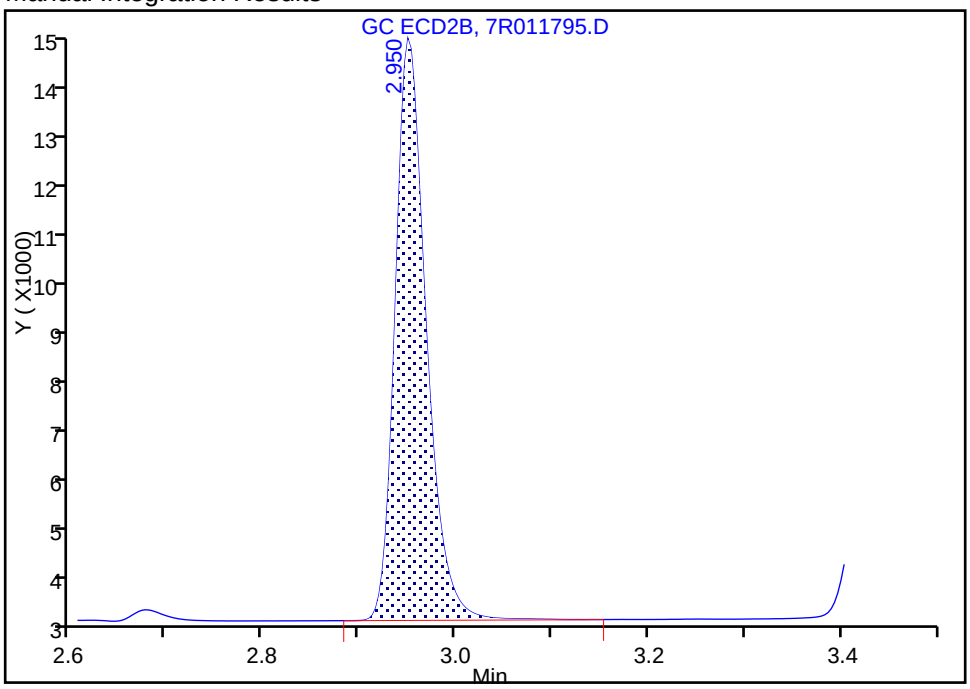
Processing Integration Results

RT: 2.95
Area: 23435
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.95
Area: 23541
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 27-Dec-2017 15:29:15
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 28-Dec-2017 12:46:15 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011795.D

Injection Date: 27-Dec-2017 15:02:23 Instrument ID: CPESTGC7

Lims ID: IC 1232

Client ID:

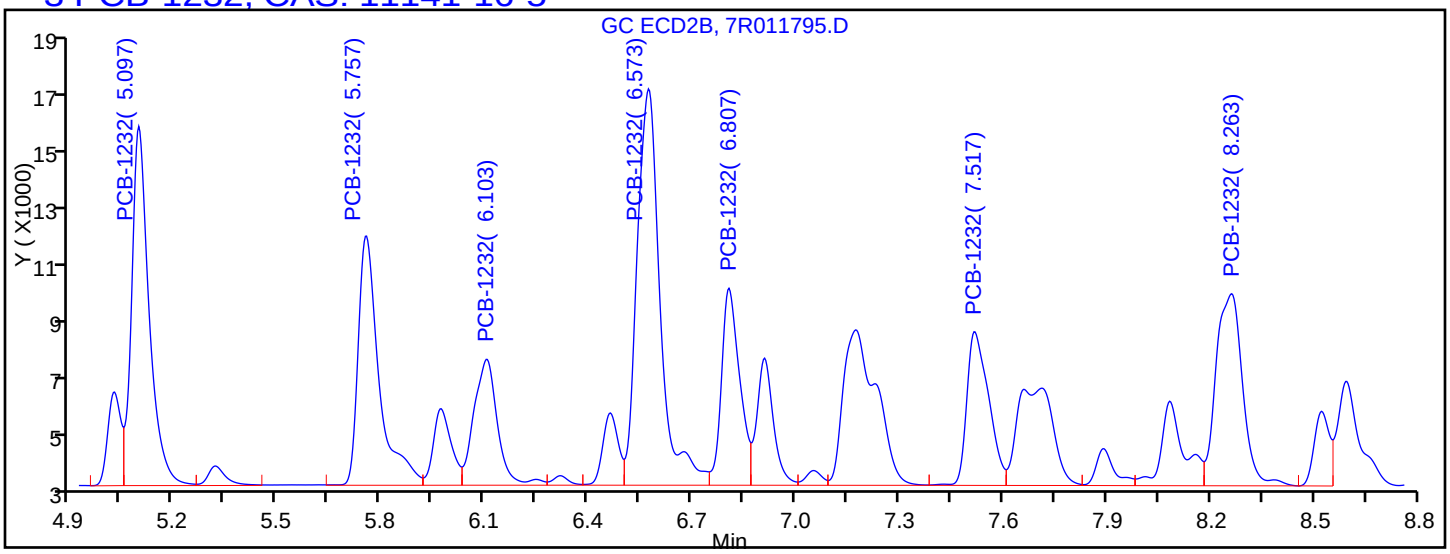
Operator ID: ALS Bottle#: 12 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

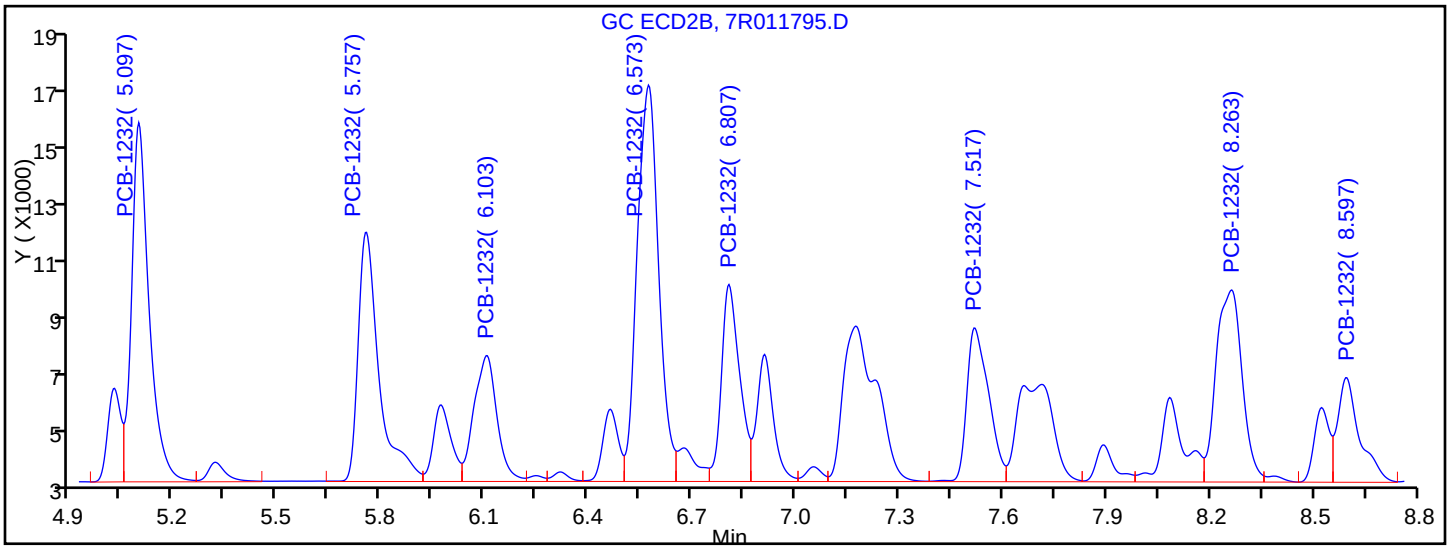
Column: Detector GC ECD2B

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

5.097	Response = 41106
5.757	Response = 34309
6.103	Response = 19503
6.573	Response = 60160
6.807	Response = 23472
7.517	Response = 22047
8.263	Response = 33417
8.597	Response = 15221



Manual Integration Results

5.097	Response = 41106	
5.757	Response = 34309	
6.103	Response = 18966	M
6.573	Response = 55868	M
6.807	Response = 23472	
7.517	Response = 22047	

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:25 Calibration End Date: 12/27/2017 15:25 Calibration ID: 65804

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/10	7R011796.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0176					Ave		0.0176						20.0			0.9900
PCB-1242 Peak 2	0.0366					Ave		0.0366						20.0			0.9900
PCB-1242 Peak 3	0.0675					Ave		0.0675						20.0			0.9900
PCB-1242 Peak 4	0.0298					Ave		0.0298						20.0			0.9900
PCB-1242 Peak 5	0.0223					Ave		0.0223						20.0			0.9900
PCB-1242 Peak 6	0.0243					Ave		0.0243						20.0			0.9900
PCB-1242 Peak 7	0.0226					Ave		0.0226						20.0			0.9900
PCB-1242 Peak 8	0.0275					Ave		0.0275						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:25 Calibration End Date: 12/27/2017 15:25 Calibration ID: 65804

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/10	7R011796.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	38656					1000				
PCB-1242 Peak 2	BNB	Ave	80341					1000				
PCB-1242 Peak 3	BNB	Ave	147914					1000				
PCB-1242 Peak 4	BNB	Ave	65271					1000				
PCB-1242 Peak 5	BNB	Ave	48825					1000				
PCB-1242 Peak 6	BNB	Ave	53264					1000				
PCB-1242 Peak 7	BNB	Ave	49445					1000				
PCB-1242 Peak 8	BNB	Ave	60381					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:25:56 ALS Bottle#: 13 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-010
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:19 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:15:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	43847	20.0	20.0	
2	2.950	2.950	0.000	23019	20.0	20.0	
						RPD = 0.00	
4 PCB-1242							M
1	6.380	6.380	0.000	38656	1000.0	1000.0	
1	7.160	7.160	0.000	80341	1000.0	1000.0	
1	7.987	7.987	0.000	147914	1000.0	1000.0	M
1	8.227	8.227	0.000	65271	1000.0	1000.0	M
1	9.057	9.057	0.000	48825	1000.0	1000.0	M
1	9.267	9.267	0.000	53264	1000.0	1000.0	M
1	9.720	9.720	0.000	49445	1000.0	1000.0	M
1	9.790	9.790	0.000	60381	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.097	5.097	0.000	29574	1000.0	1000.0	M
2	5.753	5.753	0.000	56491	1000.0	1000.0	M
2	6.103	6.103	0.000	34103	1000.0	1000.0	M
2	6.573	6.573	0.000	105179	1000.0	1000.0	M
2	6.807	6.807	0.000	44817	1000.0	1000.0	M
2	7.520	7.520	0.000	46992	1000.0	1000.0	M
2	8.263	8.263	0.000	71827	1000.0	1000.0	M
2	8.597	8.597	0.000	35557	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

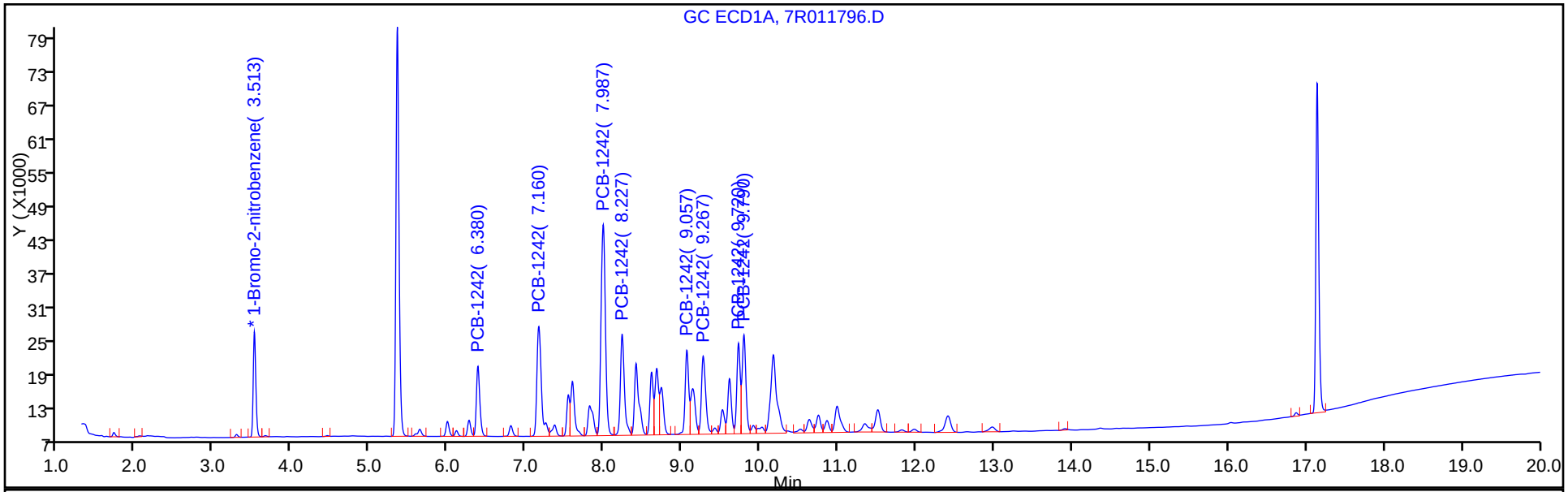
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

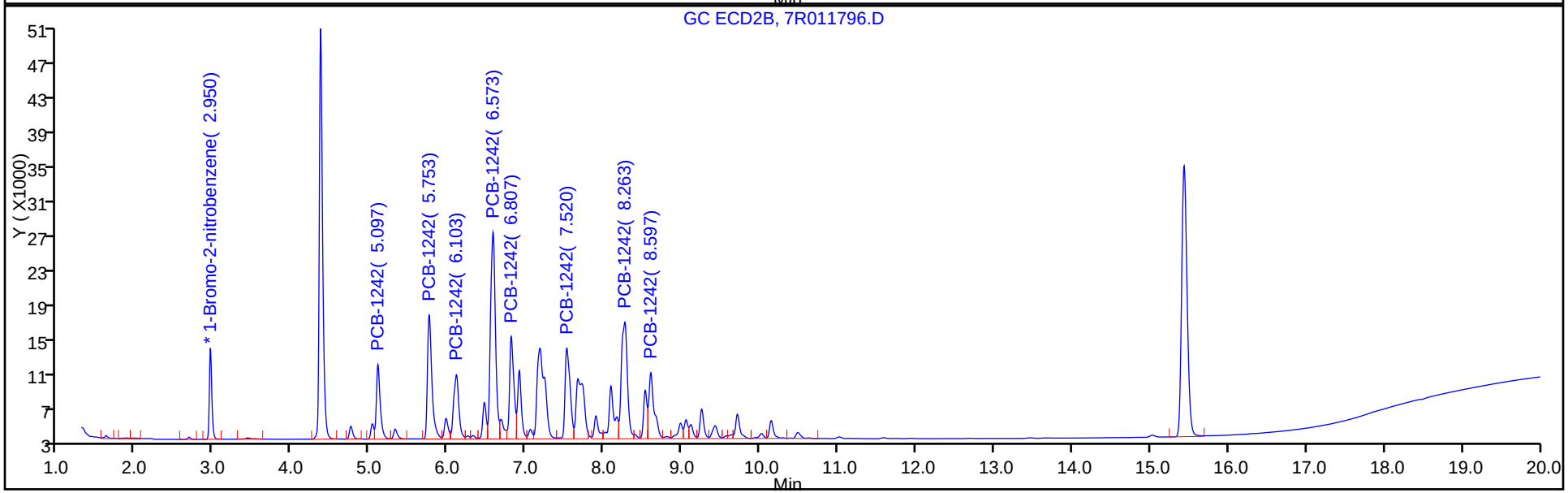
Report Date: 28-Dec-2017 12:46:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D

Injection Date:	27-Dec-2017 15:25:56	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 28-Dec-2017 12:46:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D

Injection Date: 27-Dec-2017 15:25:56 Instrument ID: CPESTGC7

Lims ID: IC 1242

Client ID:

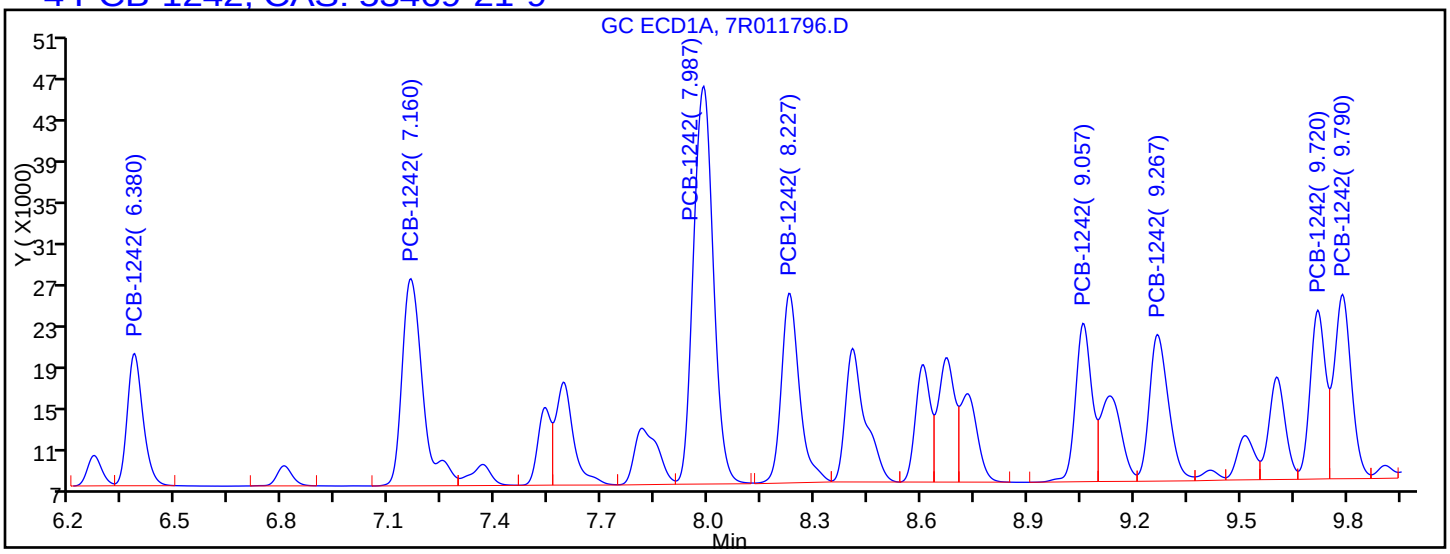
Operator ID: ALS Bottle#: 13 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

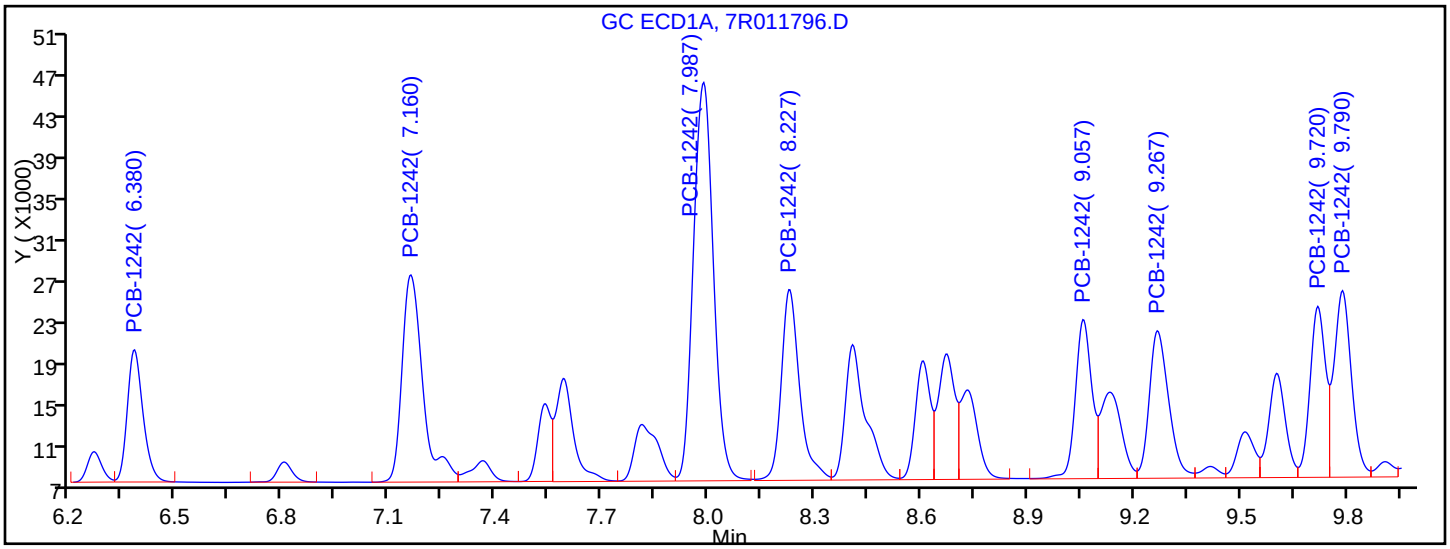
Column: Detector GC ECD1A

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

6.380	Response = 38656
7.160	Response = 80341
7.987	Response = 147242
8.227	Response = 63743
9.057	Response = 48158
9.267	Response = 52440
9.720	Response = 48413
9.790	Response = 58929



Manual Integration Results

6.380	Response = 38656	
7.160	Response = 80341	
7.987	Response = 147914	M
8.227	Response = 65271	M
9.057	Response = 48825	M
9.267	Response = 53264	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:25 Calibration End Date: 12/27/2017 15:25 Calibration ID: 65805

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/10	7R011796.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0257					Ave		0.0257						20.0			0.9900
PCB-1242 Peak 2	0.0491					Ave		0.0491						20.0			0.9900
PCB-1242 Peak 3	0.0296					Ave		0.0296						20.0			0.9900
PCB-1242 Peak 4	0.0914					Ave		0.0914						20.0			0.9900
PCB-1242 Peak 5	0.0389					Ave		0.0389						20.0			0.9900
PCB-1242 Peak 6	0.0408					Ave		0.0408						20.0			0.9900
PCB-1242 Peak 7	0.0624					Ave		0.0624						20.0			0.9900
PCB-1242 Peak 8	0.0309					Ave		0.0309						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:25 Calibration End Date: 12/27/2017 15:25 Calibration ID: 65805

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/10	7R011796.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	29574					1000				
PCB-1242 Peak 2	BNB	Ave	56491					1000				
PCB-1242 Peak 3	BNB	Ave	34103					1000				
PCB-1242 Peak 4	BNB	Ave	105179					1000				
PCB-1242 Peak 5	BNB	Ave	44817					1000				
PCB-1242 Peak 6	BNB	Ave	46992					1000				
PCB-1242 Peak 7	BNB	Ave	71827					1000				
PCB-1242 Peak 8	BNB	Ave	35557					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:25:56 ALS Bottle#: 13 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-010
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:19 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:15:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	43847	20.0	20.0	
2	2.950	2.950	0.000	23019	20.0	20.0	
						RPD = 0.00	
4 PCB-1242							M
1	6.380	6.380	0.000	38656	1000.0	1000.0	
1	7.160	7.160	0.000	80341	1000.0	1000.0	
1	7.987	7.987	0.000	147914	1000.0	1000.0	M
1	8.227	8.227	0.000	65271	1000.0	1000.0	M
1	9.057	9.057	0.000	48825	1000.0	1000.0	M
1	9.267	9.267	0.000	53264	1000.0	1000.0	M
1	9.720	9.720	0.000	49445	1000.0	1000.0	M
1	9.790	9.790	0.000	60381	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.097	5.097	0.000	29574	1000.0	1000.0	M
2	5.753	5.753	0.000	56491	1000.0	1000.0	M
2	6.103	6.103	0.000	34103	1000.0	1000.0	M
2	6.573	6.573	0.000	105179	1000.0	1000.0	M
2	6.807	6.807	0.000	44817	1000.0	1000.0	M
2	7.520	7.520	0.000	46992	1000.0	1000.0	M
2	8.263	8.263	0.000	71827	1000.0	1000.0	M
2	8.597	8.597	0.000	35557	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

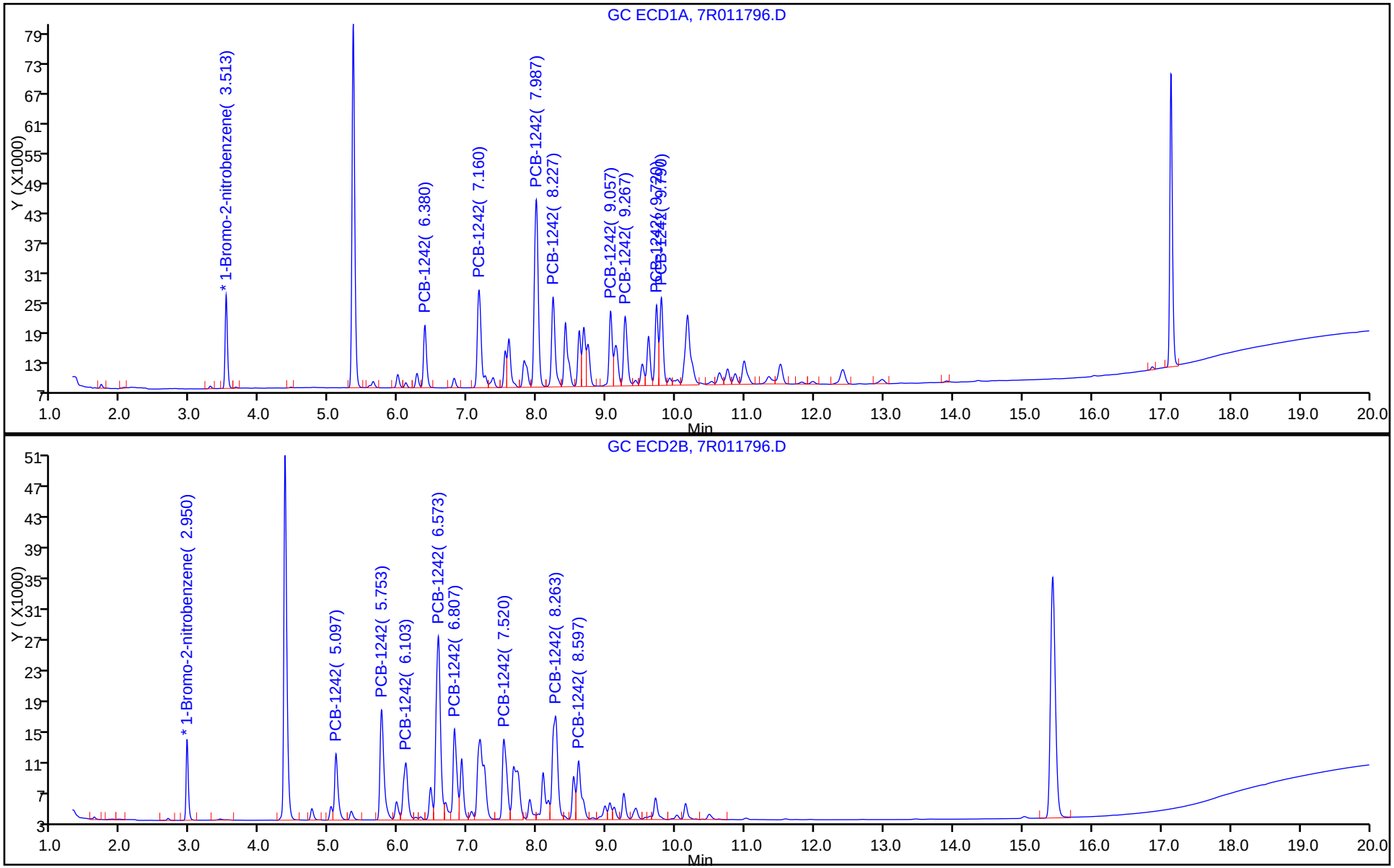
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D

Injection Date:	27-Dec-2017 15:25:56	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011796.D

Injection Date: 27-Dec-2017 15:25:56 Instrument ID: CPESTGC7

Lims ID: IC 1242

Client ID:

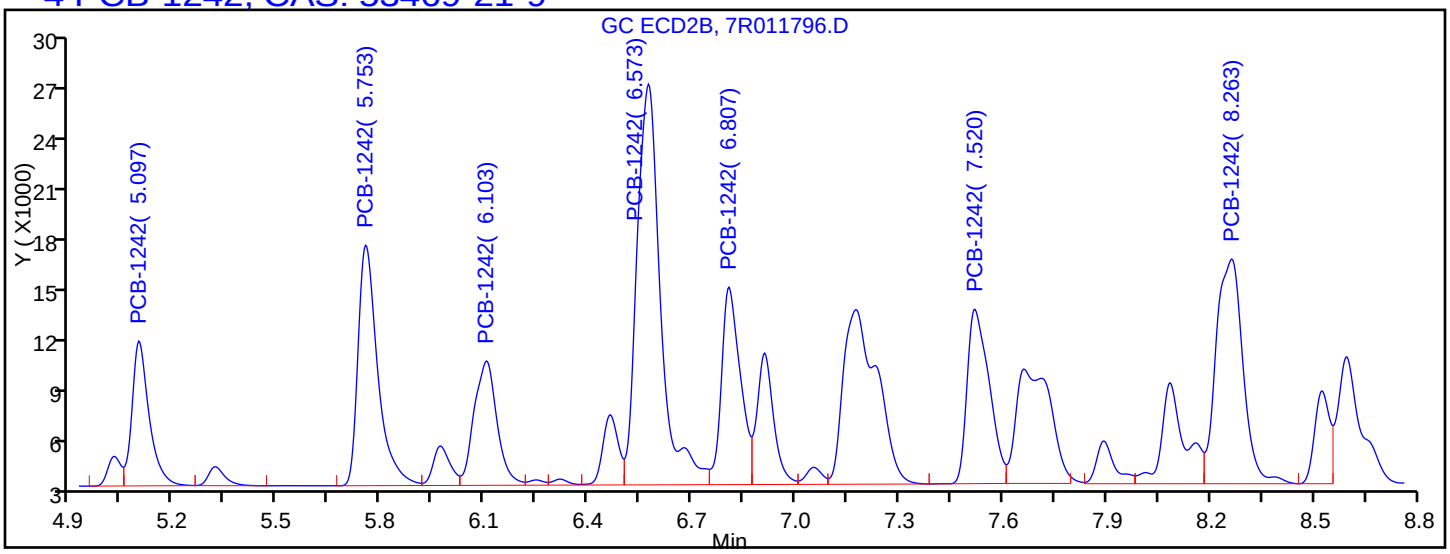
Operator ID: ALS Bottle#: 13 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

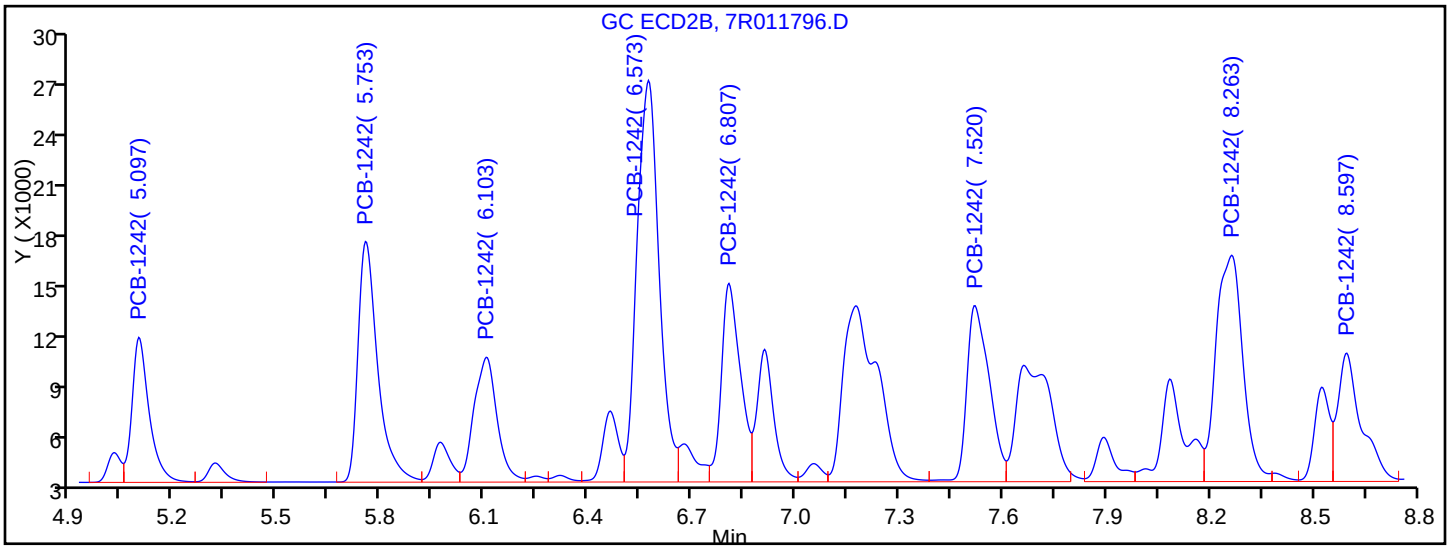
Column: Detector GC ECD2B

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

5.097	Response = 29338
5.753	Response = 56247
6.103	Response = 33744
6.573	Response = 112604
6.807	Response = 44354
7.520	Response = 45592
8.263	Response = 71639
8.597	Response = 35101



Manual Integration Results

5.097	Response = 29574	M
5.753	Response = 56491	M
6.103	Response = 34103	M
6.573	Response = 105179	M
6.807	Response = 44817	M
7.520	Response = 46992	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:49 Calibration End Date: 12/27/2017 15:49 Calibration ID: 65810

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/11	7R011797.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0185					Ave		0.0185						20.0			0.9900
PCB-1248 Peak 2	0.0442					Ave		0.0442						20.0			0.9900
PCB-1248 Peak 3	0.0253					Ave		0.0253						20.0			0.9900
PCB-1248 Peak 4	0.0241					Ave		0.0241						20.0			0.9900
PCB-1248 Peak 5	0.0335					Ave		0.0335						20.0			0.9900
PCB-1248 Peak 6	0.0350					Ave		0.0350						20.0			0.9900
PCB-1248 Peak 7	0.0425					Ave		0.0425						20.0			0.9900
PCB-1248 Peak 8	0.0237					Ave		0.0237						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:49 Calibration End Date: 12/27/2017 15:49 Calibration ID: 65810

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/11	7R011797.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	43220					1000				
PCB-1248 Peak 2	BNB	Ave	103322					1000				
PCB-1248 Peak 3	BNB	Ave	59085					1000				
PCB-1248 Peak 4	BNB	Ave	56331					1000				
PCB-1248 Peak 5	BNB	Ave	78321					1000				
PCB-1248 Peak 6	BNB	Ave	81955					1000				
PCB-1248 Peak 7	BNB	Ave	99293					1000				
PCB-1248 Peak 8	BNB	Ave	55523					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:49:28 ALS Bottle#: 14 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-011
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:24 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:17:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46780	20.0	20.0	
2	2.950	2.950	0.000	24610	20.0	20.0	
						RPD = 0.00	
6 PCB-1248							M
1	7.153	7.153	0.000	43220	1000.0	1000.0	a
1	7.980	7.980	0.000	103322	1000.0	1000.0	M
1	8.600	8.600	0.000	59085	1000.0	1000.0	M
1	8.670	8.670	0.000	56331	1000.0	1000.0	M
1	9.263	9.263	0.000	78321	1000.0	1000.0	M
1	9.717	9.717	0.000	81955	1000.0	1000.0	M
1	9.787	9.787	0.000	99293	1000.0	1000.0	M
1	10.980	10.980	0.000	55523	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.750	5.750	0.000	31173	1000.0	1000.0	M
2	6.570	6.570	0.000	70032	1000.0	1000.0	M
2	7.167	7.167	0.000	80507	1000.0	1000.0	M
2	7.513	7.513	0.000	72665	1000.0	1000.0	M
2	8.257	8.257	0.000	124051	1000.0	1000.0	M
2	8.593	8.593	0.000	55737	1000.0	1000.0	M
2	9.243	9.243	0.000	32939	1000.0	1000.0	M
2	10.137	10.137	0.000	18927	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

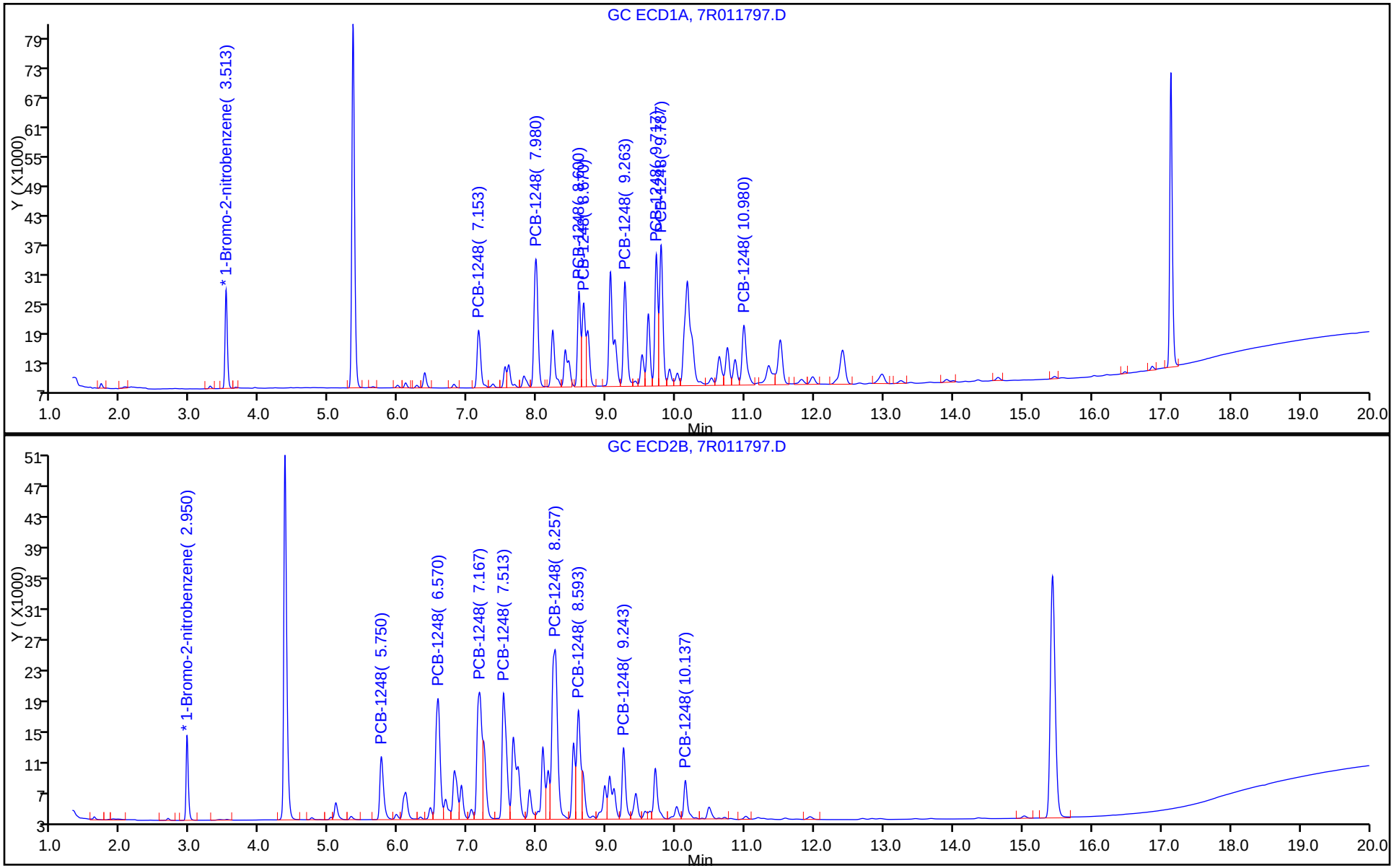
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D

Injection Date:	27-Dec-2017 15:49:28	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D

Injection Date: 27-Dec-2017 15:49:28 Instrument ID: CPESTGC7

Lims ID: IC 1248

Client ID:

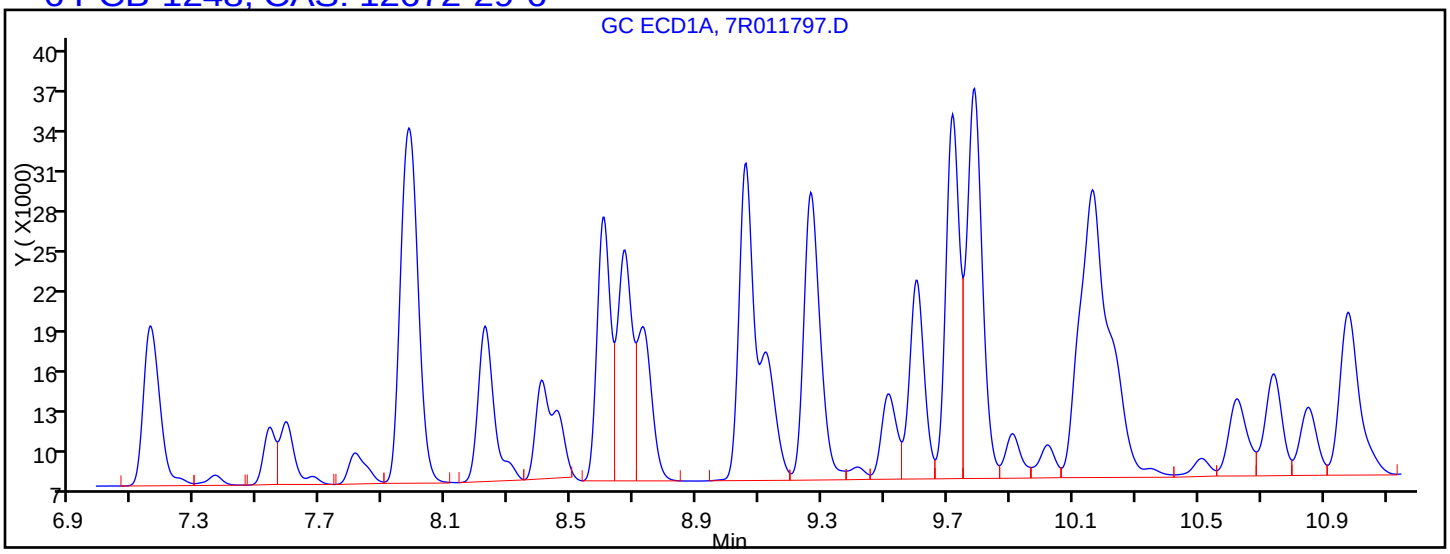
Operator ID: ALS Bottle#: 14 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

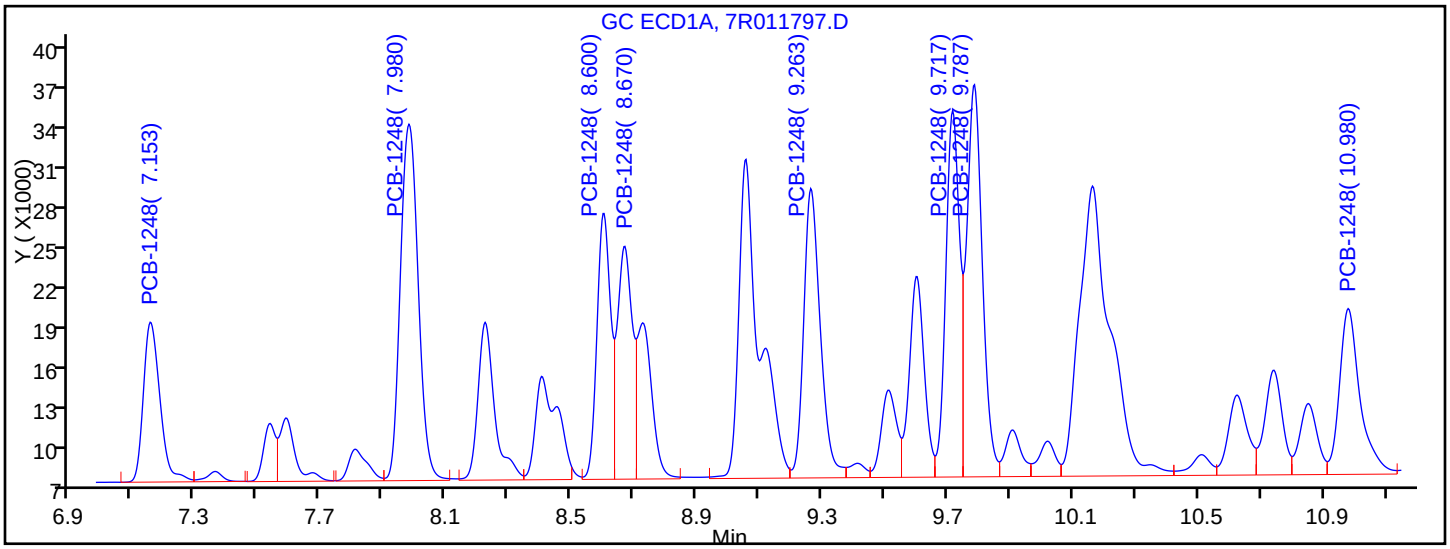
Column: Detector GC ECD1A

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

7.153	Response = 0
7.810	Response = 9015
8.403	Response = 33655
8.670	Response = 0
9.057	Response = 104885
9.513	Response = 21056
9.600	Response = 47896
10.743	Response = 28360



Manual Integration Results

7.153	Response = 43220	M
7.980	Response = 103322	M
8.600	Response = 59085	M
8.670	Response = 56331	M
9.263	Response = 78321	M
9.717	Response = 81955	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:49 Calibration End Date: 12/27/2017 15:49 Calibration ID: 65811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/11	7R011797.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0253					Ave		0.0253						20.0			0.9900
PCB-1248 Peak 2	0.0569					Ave		0.0569						20.0			0.9900
PCB-1248 Peak 3	0.0654					Ave		0.0654						20.0			0.9900
PCB-1248 Peak 4	0.0591					Ave		0.0591						20.0			0.9900
PCB-1248 Peak 5	0.1008					Ave		0.1008						20.0			0.9900
PCB-1248 Peak 6	0.0453					Ave		0.0453						20.0			0.9900
PCB-1248 Peak 7	0.0268					Ave		0.0268						20.0			0.9900
PCB-1248 Peak 8	0.0154					Ave		0.0154						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 15:49 Calibration End Date: 12/27/2017 15:49 Calibration ID: 65811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/11	7R011797.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	31173					1000				
PCB-1248 Peak 2	BNB	Ave	70032					1000				
PCB-1248 Peak 3	BNB	Ave	80507					1000				
PCB-1248 Peak 4	BNB	Ave	72665					1000				
PCB-1248 Peak 5	BNB	Ave	124051					1000				
PCB-1248 Peak 6	BNB	Ave	55737					1000				
PCB-1248 Peak 7	BNB	Ave	32939					1000				
PCB-1248 Peak 8	BNB	Ave	18927					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 15:49:28 ALS Bottle#: 14 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-011
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:24 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:17:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46780	20.0	20.0	
2	2.950	2.950	0.000	24610	20.0	20.0	
						RPD = 0.00	
6 PCB-1248							M
1	7.153	7.153	0.000	43220	1000.0	1000.0	a
1	7.980	7.980	0.000	103322	1000.0	1000.0	M
1	8.600	8.600	0.000	59085	1000.0	1000.0	M
1	8.670	8.670	0.000	56331	1000.0	1000.0	M
1	9.263	9.263	0.000	78321	1000.0	1000.0	M
1	9.717	9.717	0.000	81955	1000.0	1000.0	M
1	9.787	9.787	0.000	99293	1000.0	1000.0	M
1	10.980	10.980	0.000	55523	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	5.750	5.750	0.000	31173	1000.0	1000.0	M
2	6.570	6.570	0.000	70032	1000.0	1000.0	M
2	7.167	7.167	0.000	80507	1000.0	1000.0	M
2	7.513	7.513	0.000	72665	1000.0	1000.0	M
2	8.257	8.257	0.000	124051	1000.0	1000.0	M
2	8.593	8.593	0.000	55737	1000.0	1000.0	M
2	9.243	9.243	0.000	32939	1000.0	1000.0	M
2	10.137	10.137	0.000	18927	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

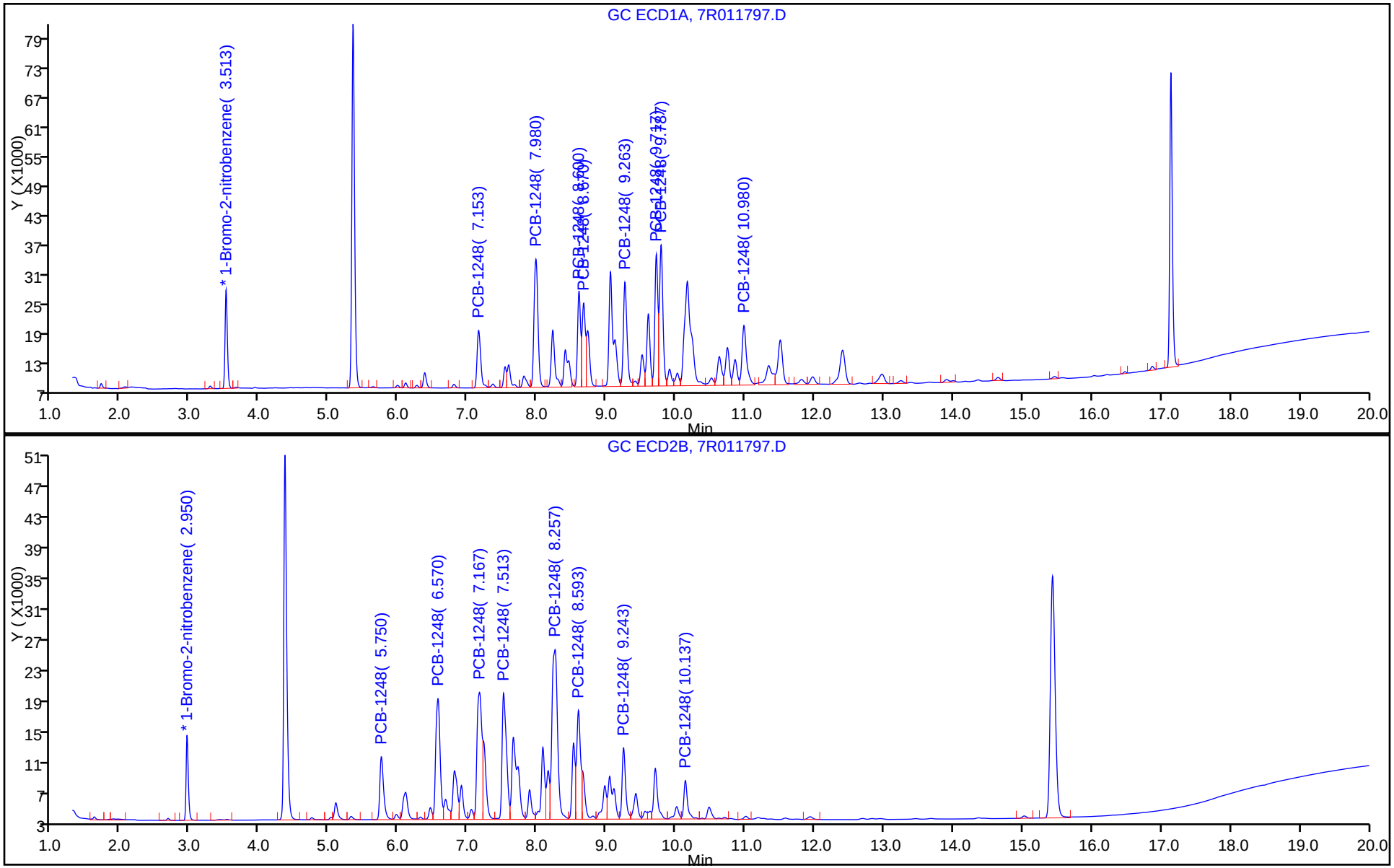
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D

Injection Date:	27-Dec-2017 15:49:28	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011797.D

Injection Date: 27-Dec-2017 15:49:28 Instrument ID: CPESTGC7

Lims ID: IC 1248

Client ID:

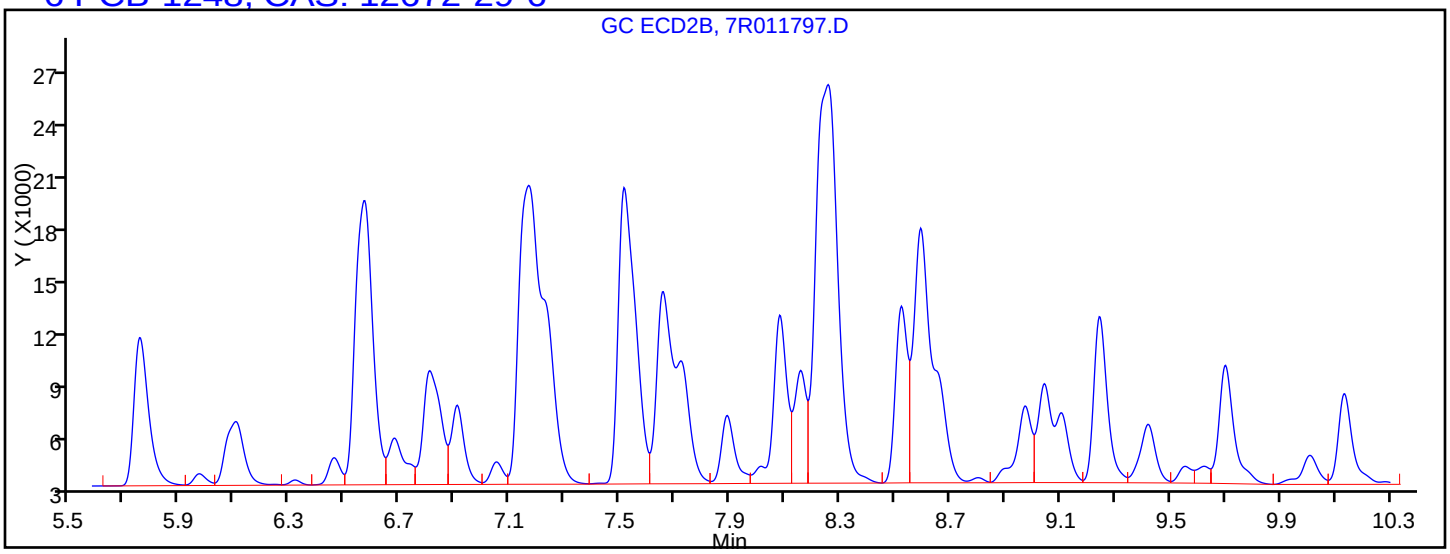
Operator ID: ALS Bottle#: 14 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

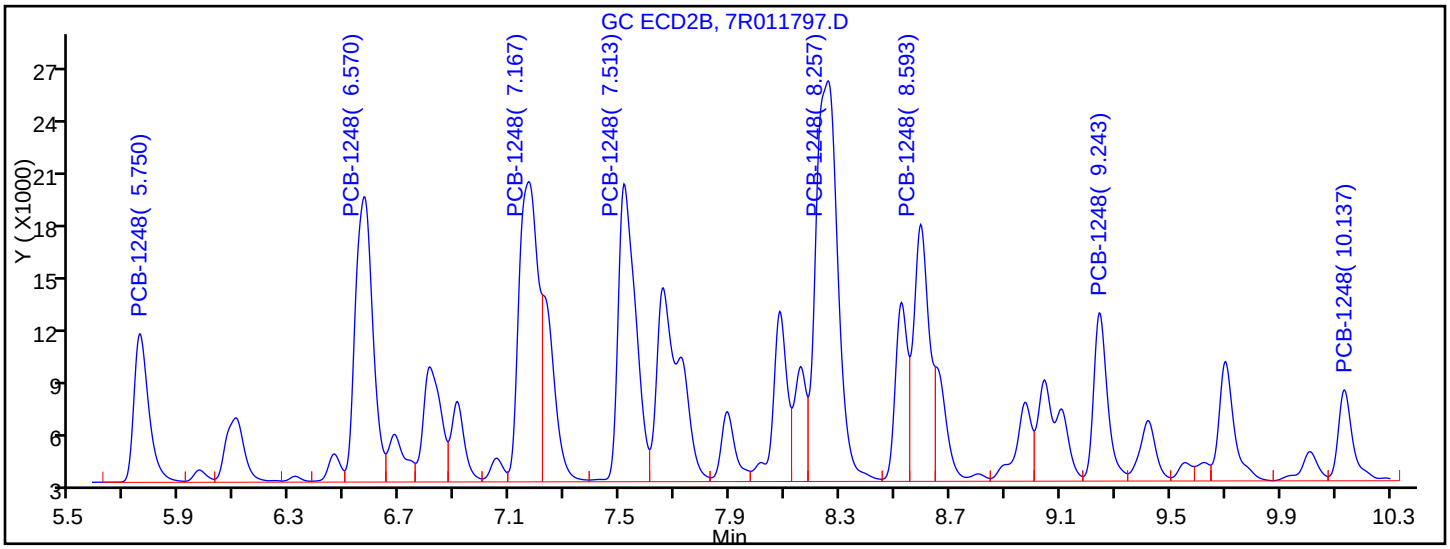
Column: Detector GC ECD2B

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

5.750	Response = 0
6.317	Response = 766
6.907	Response = 14367
7.513	Response = 0
7.890	Response = 13090
8.257	Response = 122212
8.973	Response = 16509
10.137	Response = 0



Manual Integration Results

5.750	Response = 31173	M
6.570	Response = 70032	M
7.167	Response = 80507	M
7.513	Response = 72665	M
8.257	Response = 124051	M
8.593	Response = 55737	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:12 Calibration End Date: 12/27/2017 16:12 Calibration ID: 65816

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/12	7R011798.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0145					Ave		0.0145						20.0			0.9900
PCB-1254 Peak 2	0.0393					Ave		0.0393						20.0			0.9900
PCB-1254 Peak 3	0.0442					Ave		0.0442						20.0			0.9900
PCB-1254 Peak 4	0.0320					Ave		0.0320						20.0			0.9900
PCB-1254 Peak 5	0.0653					Ave		0.0653						20.0			0.9900
PCB-1254 Peak 6	0.0541					Ave		0.0541						20.0			0.9900
PCB-1254 Peak 7	0.0408					Ave		0.0408						20.0			0.9900
PCB-1254 Peak 8	0.0641					Ave		0.0641						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:12 Calibration End Date: 12/27/2017 16:12 Calibration ID: 65816

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/12	7R011798.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	33118					1000				
PCB-1254 Peak 2	BNB	Ave	89672					1000				
PCB-1254 Peak 3	BNB	Ave	100676					1000				
PCB-1254 Peak 4	BNB	Ave	72853					1000				
PCB-1254 Peak 5	BNB	Ave	148740					1000				
PCB-1254 Peak 6	BNB	Ave	123309					1000				
PCB-1254 Peak 7	BNB	Ave	93000					1000				
PCB-1254 Peak 8	BNB	Ave	146024					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:12:49 ALS Bottle#: 15 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-012
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:32 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:39:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	45579	20.0	20.0	
2	2.950	2.950	0.000	23845	20.0	20.0	
						RPD = 0.00	
7 PCB-1254							M
1	9.057	9.057	0.000	33118	1000.0	1000.0	M
1	9.780	9.780	0.000	89672	1000.0	1000.0	M
1	10.120	10.120	0.000	100676	1000.0	1000.0	M
1	10.743	10.743	0.000	72853	1000.0	1000.0	M
1	10.980	10.980	0.000	148740	1000.0	1000.0	M
1	11.503	11.503	0.000	123309	1000.0	1000.0	M
1	12.403	12.403	0.000	93000	1000.0	1000.0	M
1	12.973	12.973	0.000	146024	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	7.513	7.513	0.000	22348	1000.0	1000.0	M
2	8.160	8.160	0.000	54800	1000.0	1000.0	M
2	8.603	8.603	0.000	84813	1000.0	1000.0	M
2	9.043	9.043	0.000	60470	1000.0	1000.0	M
2	9.247	9.247	0.000	110642	1000.0	1000.0	M
2	9.703	9.703	0.000	87079	1000.0	1000.0	M
2	10.010	10.010	0.000	74910	1000.0	1000.0	M
2	10.477	10.477	0.000	100429	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

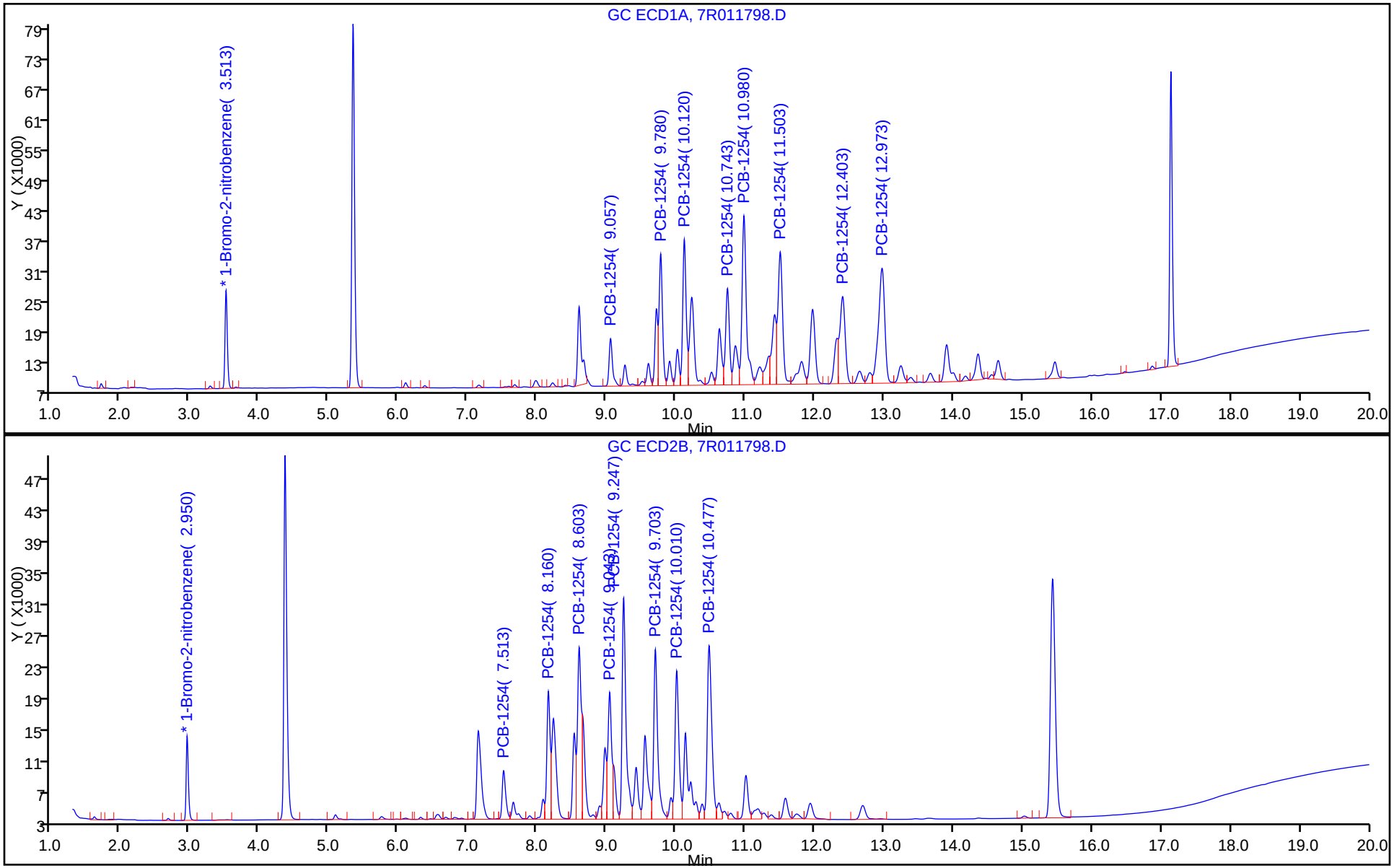
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:34 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D

Injection Date:	27-Dec-2017 16:12:49	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:35 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D

Injection Date: 27-Dec-2017 16:12:49 Instrument ID: CPESTGC7

Lims ID: IC 1254

Client ID:

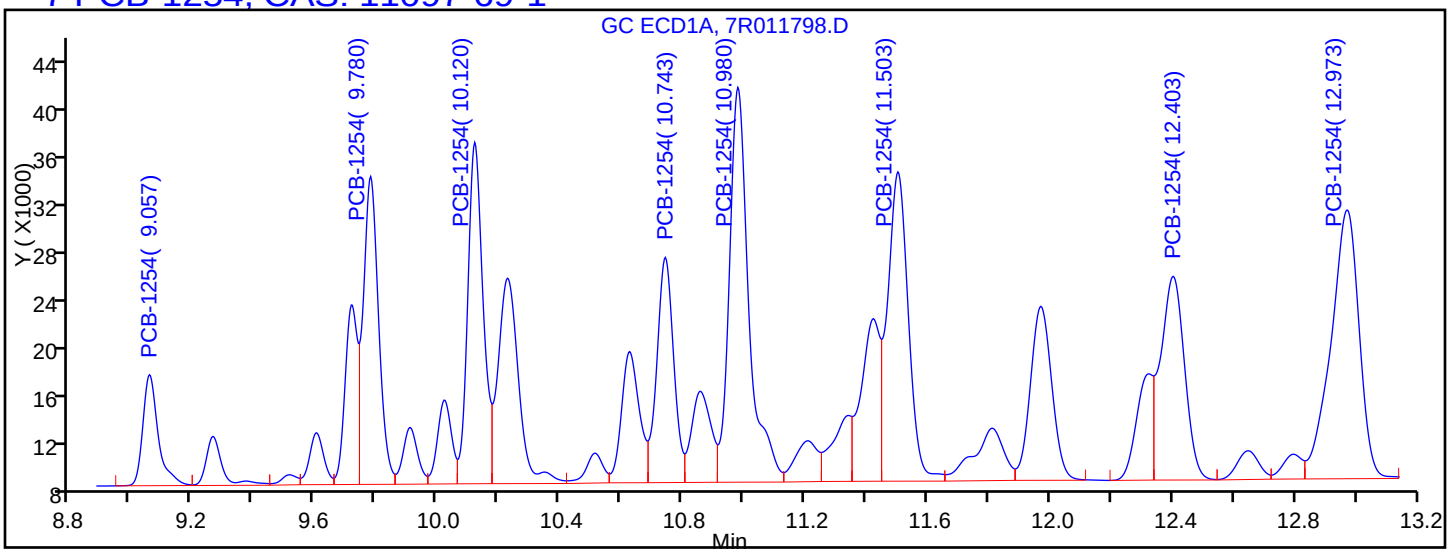
Operator ID: ALS Bottle#: 15 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

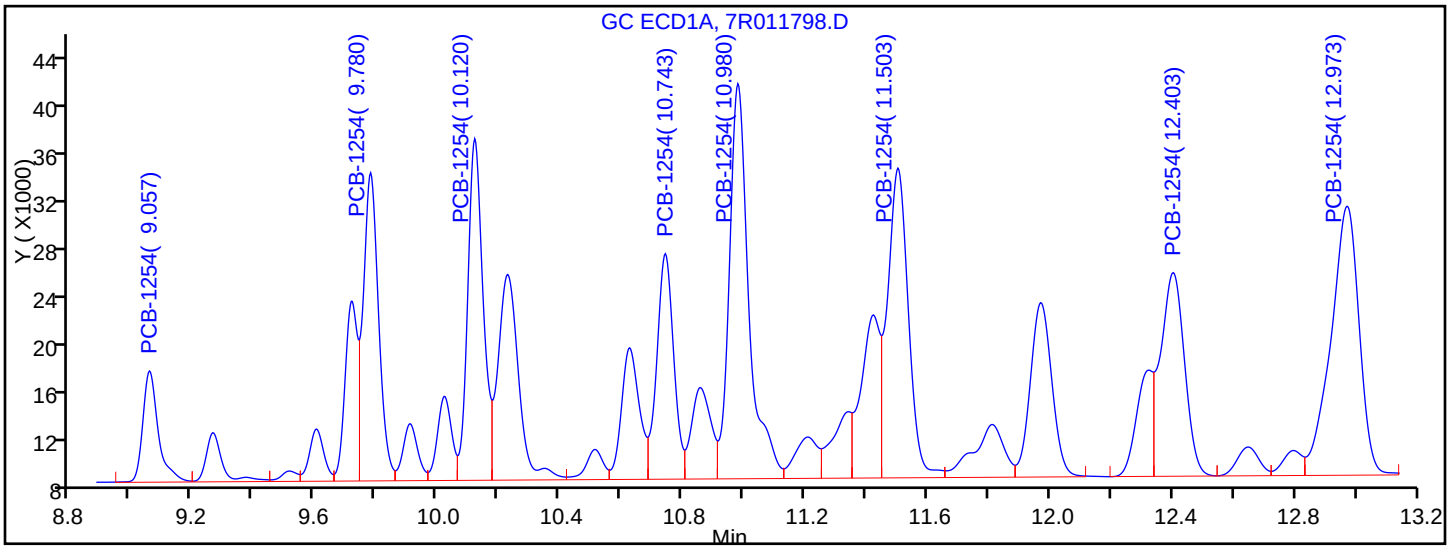
Column: Detector GC ECD1A

7 PCB-1254, CAS: 11097-69-1



Processing Integration Results

9.057	Response = 32811
9.780	Response = 89515
10.120	Response = 100495
10.743	Response = 72644
10.980	Response = 148421
11.503	Response = 122943
12.403	Response = 93106
12.973	Response = 145666



Manual Integration Results

9.057	Response = 33118	M
9.780	Response = 89672	M
10.120	Response = 100676	M
10.743	Response = 72853	M
10.980	Response = 148740	M
11.503	Response = 123309	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:12 Calibration End Date: 12/27/2017 16:12 Calibration ID: 65817

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/12	7R011798.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0187					Ave		0.0187						20.0			0.9900
PCB-1254 Peak 2	0.0460					Ave		0.0460						20.0			0.9900
PCB-1254 Peak 3	0.0711					Ave		0.0711						20.0			0.9900
PCB-1254 Peak 4	0.0507					Ave		0.0507						20.0			0.9900
PCB-1254 Peak 5	0.0928					Ave		0.0928						20.0			0.9900
PCB-1254 Peak 6	0.0730					Ave		0.0730						20.0			0.9900
PCB-1254 Peak 7	0.0628					Ave		0.0628						20.0			0.9900
PCB-1254 Peak 8	0.0842					Ave		0.0842						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:12 Calibration End Date: 12/27/2017 16:12 Calibration ID: 65817

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/12	7R011798.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	22348					1000				
PCB-1254 Peak 2	BNB	Ave	54800					1000				
PCB-1254 Peak 3	BNB	Ave	84813					1000				
PCB-1254 Peak 4	BNB	Ave	60470					1000				
PCB-1254 Peak 5	BNB	Ave	110642					1000				
PCB-1254 Peak 6	BNB	Ave	87079					1000				
PCB-1254 Peak 7	BNB	Ave	74910					1000				
PCB-1254 Peak 8	BNB	Ave	100429					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:12:49 ALS Bottle#: 15 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-012
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:32 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:39:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	45579	20.0	20.0	
2	2.950	2.950	0.000	23845	20.0	20.0	
						RPD = 0.00	
7 PCB-1254							M
1	9.057	9.057	0.000	33118	1000.0	1000.0	M
1	9.780	9.780	0.000	89672	1000.0	1000.0	M
1	10.120	10.120	0.000	100676	1000.0	1000.0	M
1	10.743	10.743	0.000	72853	1000.0	1000.0	M
1	10.980	10.980	0.000	148740	1000.0	1000.0	M
1	11.503	11.503	0.000	123309	1000.0	1000.0	M
1	12.403	12.403	0.000	93000	1000.0	1000.0	M
1	12.973	12.973	0.000	146024	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	7.513	7.513	0.000	22348	1000.0	1000.0	M
2	8.160	8.160	0.000	54800	1000.0	1000.0	M
2	8.603	8.603	0.000	84813	1000.0	1000.0	M
2	9.043	9.043	0.000	60470	1000.0	1000.0	M
2	9.247	9.247	0.000	110642	1000.0	1000.0	M
2	9.703	9.703	0.000	87079	1000.0	1000.0	M
2	10.010	10.010	0.000	74910	1000.0	1000.0	M
2	10.477	10.477	0.000	100429	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

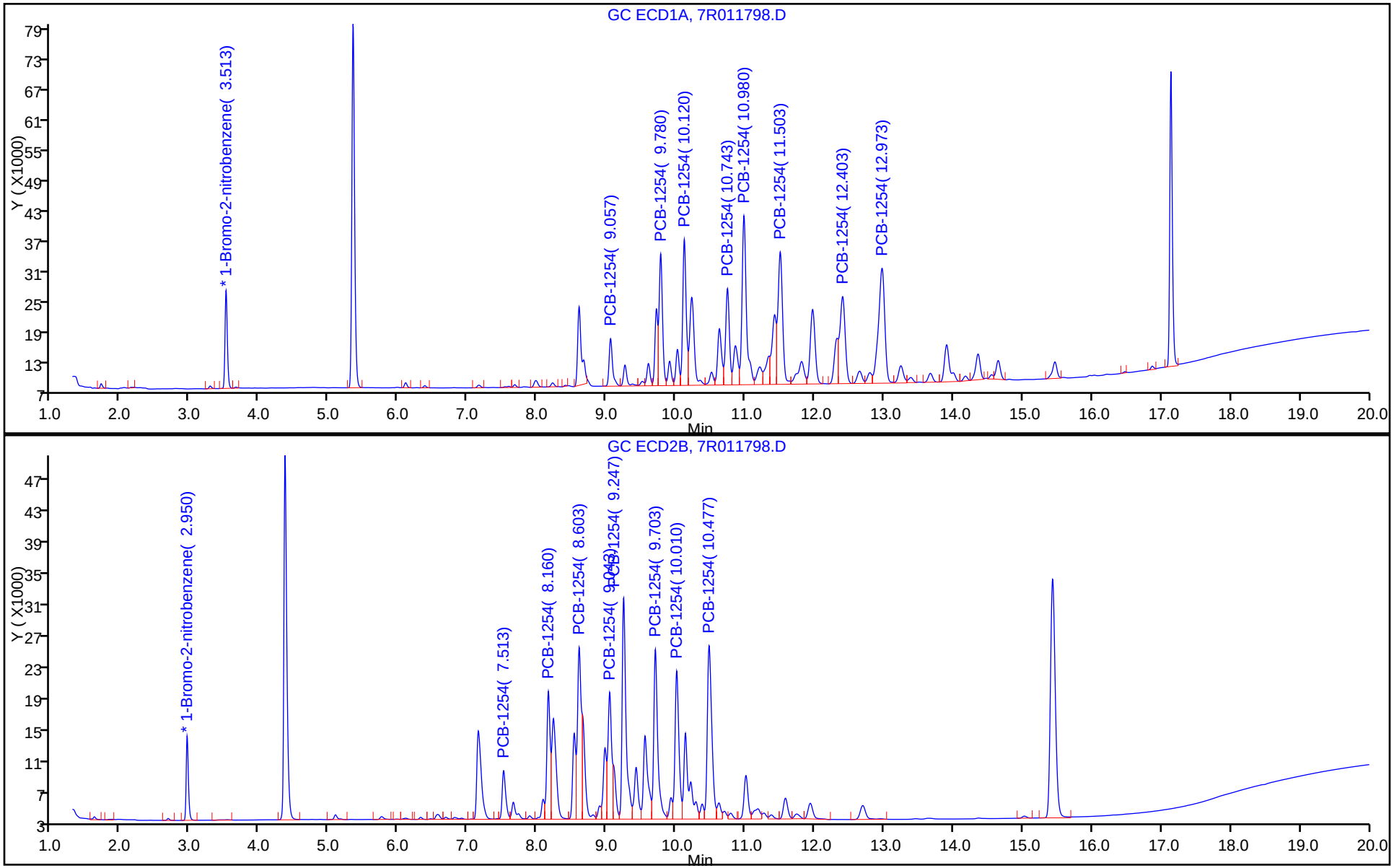
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:35 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D

Injection Date:	27-Dec-2017 16:12:49	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:35 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011798.D

Injection Date: 27-Dec-2017 16:12:49 Instrument ID: CPESTGC7

Lims ID: IC 1254

Client ID:

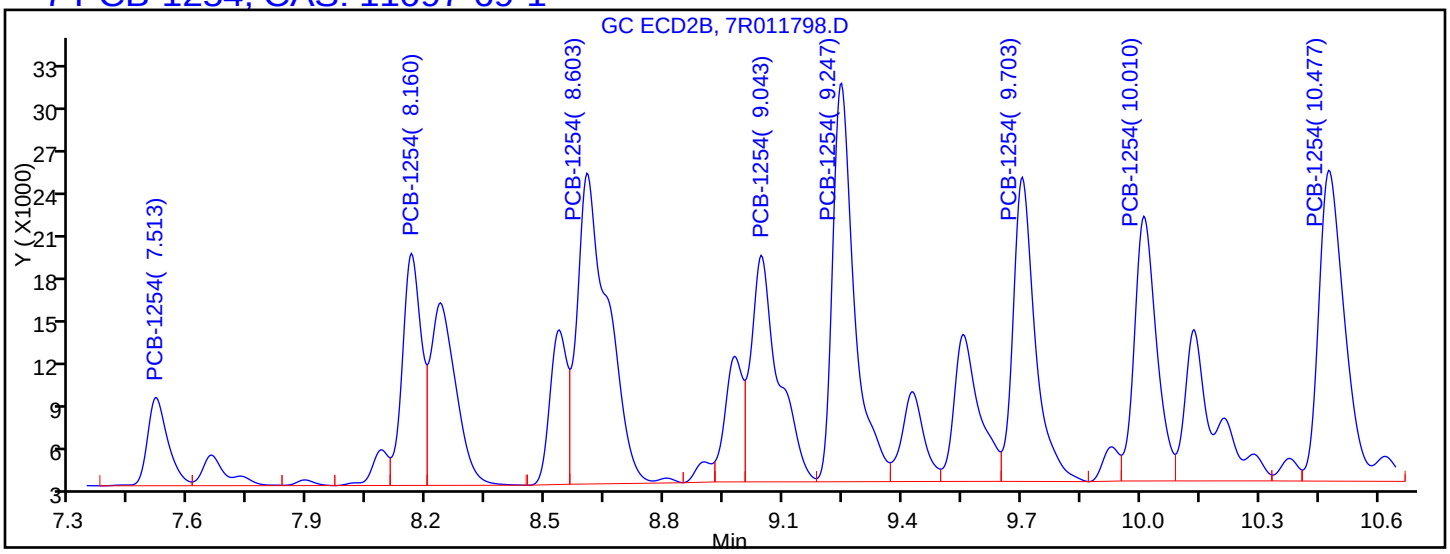
Operator ID: ALS Bottle#: 15 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

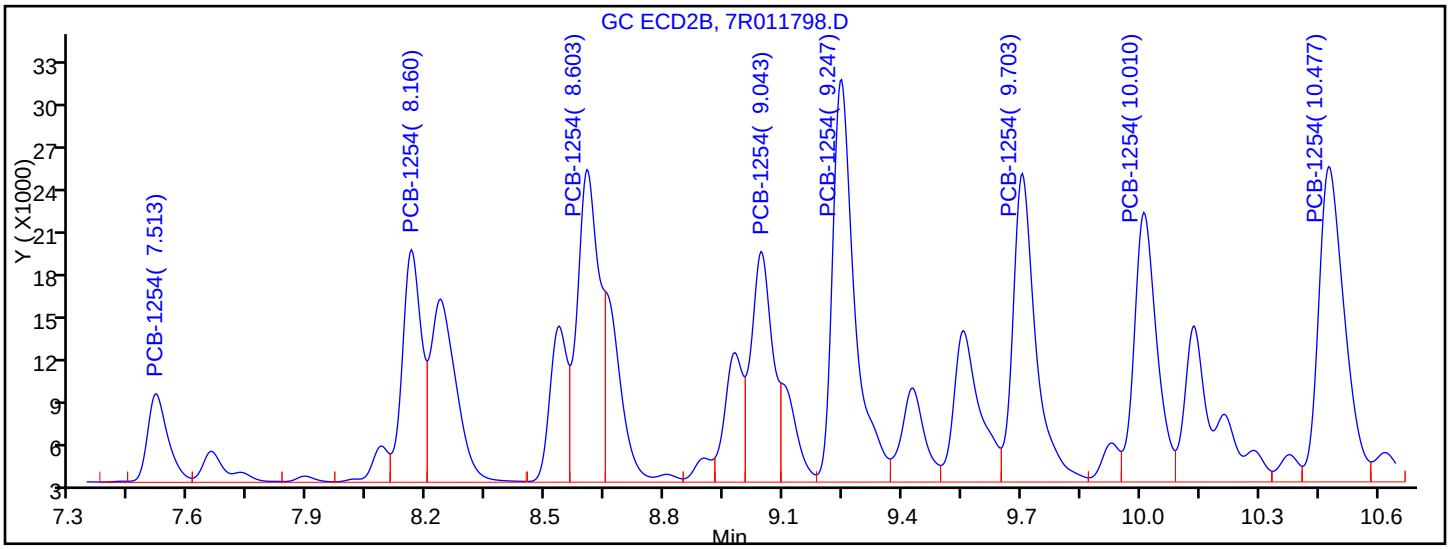
Column: Detector GC ECD2B

7 PCB-1254, CAS: 11097-69-1



Processing Integration Results

7.513	Response = 22195
8.160	Response = 54570
8.603	Response = 118754
9.043	Response = 75783
9.247	Response = 107372
9.703	Response = 83092
10.010	Response = 72146
10.477	Response = 103485



Manual Integration Results

7.513	Response = 22348	M
8.160	Response = 54800	M
8.603	Response = 84813	M
9.043	Response = 60470	M
9.247	Response = 110642	M
9.703	Response = 87079	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:36 Calibration End Date: 12/27/2017 16:36 Calibration ID: 65822

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/13	7R011799.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0393					Ave		0.0393						20.0			0.9900
PCB-1262 Peak 2	0.0484					Ave		0.0484						20.0			0.9900
PCB-1262 Peak 3	0.0706					Ave		0.0706						20.0			0.9900
PCB-1262 Peak 4	0.0543					Ave		0.0543						20.0			0.9900
PCB-1262 Peak 5	0.1075					Ave		0.1075						20.0			0.9900
PCB-1262 Peak 6	0.0174					Ave		0.0174						20.0			0.9900
PCB-1262 Peak 7	0.0388					Ave		0.0388						20.0			0.9900
PCB-1262 Peak 8	0.0141					Ave		0.0141						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:36 Calibration End Date: 12/27/2017 16:36 Calibration ID: 65822

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/13	7R011799.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	90390					1000				
PCB-1262 Peak 2	BNB	Ave	111351					1000				
PCB-1262 Peak 3	BNB	Ave	162594					1000				
PCB-1262 Peak 4	BNB	Ave	125093					1000				
PCB-1262 Peak 5	BNB	Ave	247498					1000				
PCB-1262 Peak 6	BNB	Ave	40161					1000				
PCB-1262 Peak 7	BNB	Ave	89336					1000				
PCB-1262 Peak 8	BNB	Ave	32429					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:36:19 ALS Bottle#: 16 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-013
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:37 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:58:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46046	20.0	20.0	
2	2.950	2.950	0.000	24123	20.0	20.0	
						RPD = 0.00	
9 PCB-1262							M
1	11.423	11.423	0.000	90390	1000.0	1000.0	M
1	11.970	11.970	0.000	111351	1000.0	1000.0	M
1	13.243	13.243	0.000	162594	1000.0	1000.0	M
1	14.003	14.003	0.000	125093	1000.0	1000.0	M
1	14.647	14.647	0.000	247498	1000.0	1000.0	M
1	16.220	16.220	0.000	40161	1000.0	1000.0	M
1	16.473	16.473	0.000	89336	1000.0	1000.0	M
1	16.867	16.867	0.000	32429	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	9.553	9.553	0.000	63644	1000.0	1000.0	M
2	11.187	11.187	0.000	91288	1000.0	1000.0	M
2	11.937	11.937	0.000	189773	1000.0	1000.0	M
2	12.693	12.693	0.000	60083	1000.0	1000.0	M
2	12.950	12.950	0.000	79749	1000.0	1000.0	M
2	13.687	13.687	0.000	28487	1000.0	1000.0	M
2	14.367	14.367	0.000	66814	1000.0	1000.0	M
2	15.023	15.023	0.000	24552	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

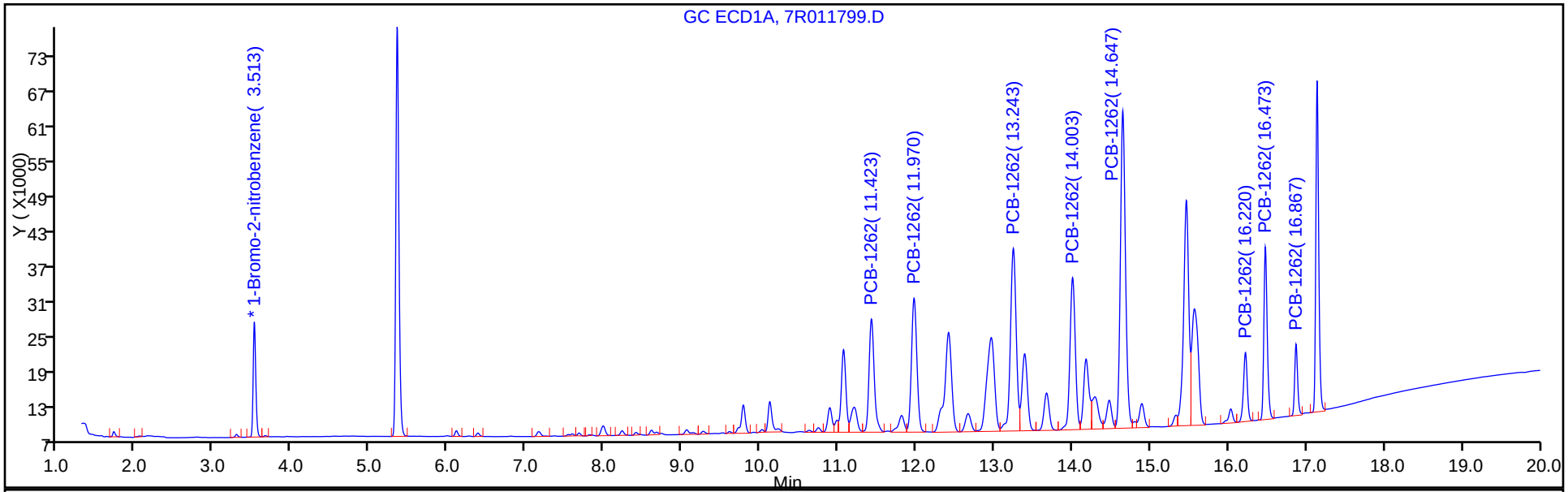
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

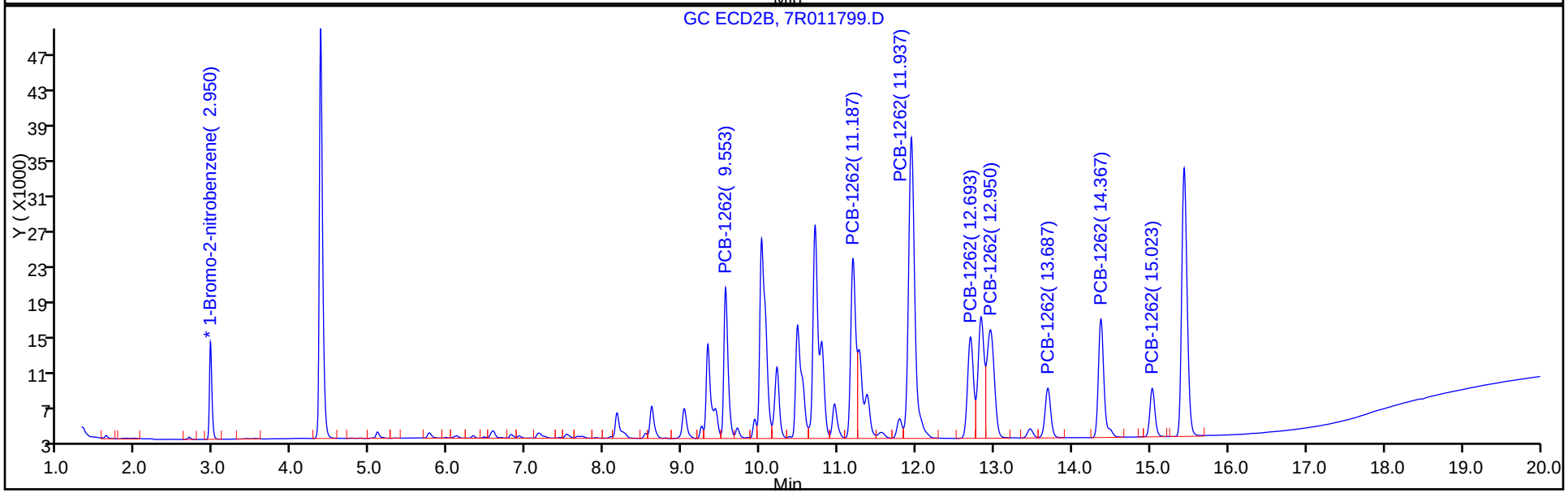
Report Date: 28-Dec-2017 12:46:39 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D

Injection Date:	27-Dec-2017 16:36:19	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 28-Dec-2017 12:46:39 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D

Injection Date: 27-Dec-2017 16:36:19 Instrument ID: CPESTGC7

Lims ID: IC 1262

Client ID:

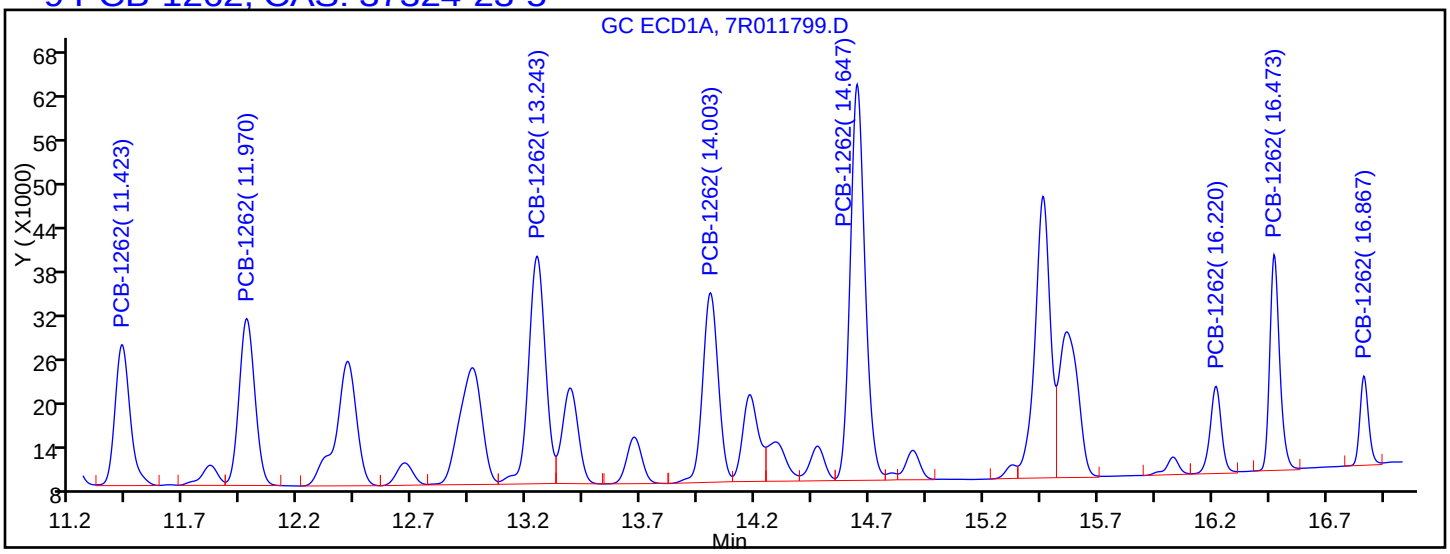
Operator ID: ALS Bottle#: 16 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

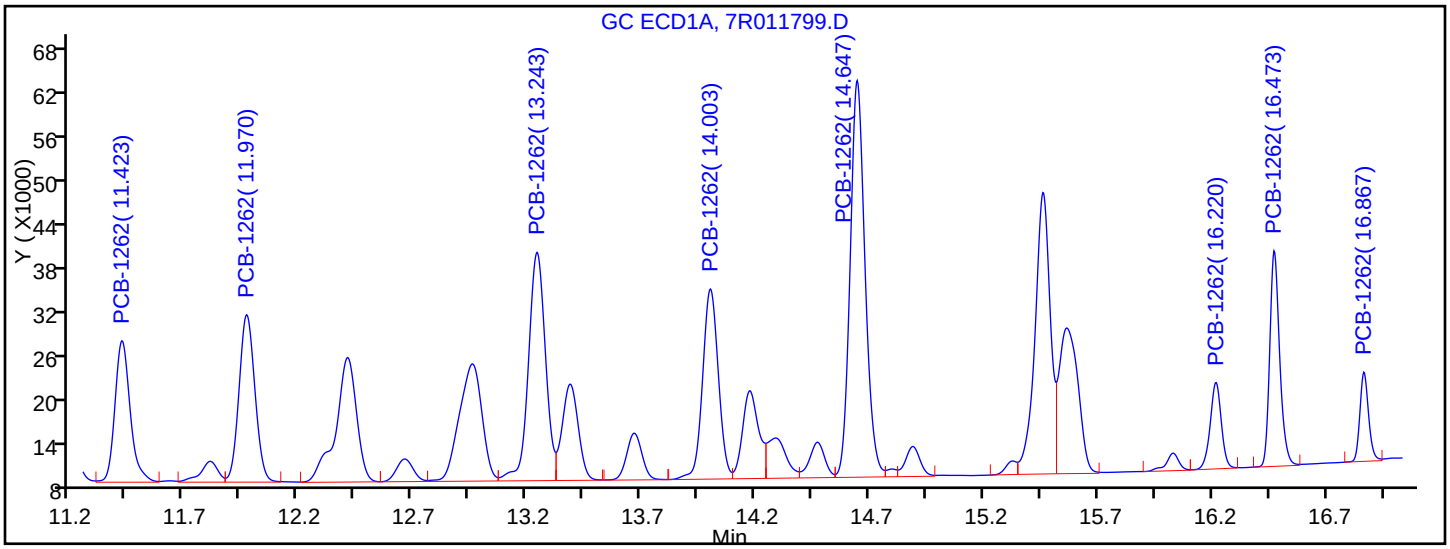
Column: Detector GC ECD1A

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

11.423	Response = 89153
11.970	Response = 110161
13.243	Response = 160929
14.003	Response = 123740
14.647	Response = 246145
16.220	Response = 41283
16.473	Response = 89580
16.867	Response = 32429



Manual Integration Results

11.423	Response = 90390	M
11.970	Response = 111351	M
13.243	Response = 162594	M
14.003	Response = 125093	M
14.647	Response = 247498	M
16.220	Response = 40161	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:36 Calibration End Date: 12/27/2017 16:36 Calibration ID: 65823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/13	7R011799.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0528					Ave		0.0528						20.0			0.9900
PCB-1262 Peak 2	0.0757					Ave		0.0757						20.0			0.9900
PCB-1262 Peak 3	0.1573					Ave		0.1573						20.0			0.9900
PCB-1262 Peak 4	0.0498					Ave		0.0498						20.0			0.9900
PCB-1262 Peak 5	0.0661					Ave		0.0661						20.0			0.9900
PCB-1262 Peak 6	0.0236					Ave		0.0236						20.0			0.9900
PCB-1262 Peak 7	0.0554					Ave		0.0554						20.0			0.9900
PCB-1262 Peak 8	0.0204					Ave		0.0204						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:36 Calibration End Date: 12/27/2017 16:36 Calibration ID: 65823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/13	7R011799.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	63644					1000				
PCB-1262 Peak 2	BNB	Ave	91288					1000				
PCB-1262 Peak 3	BNB	Ave	189773					1000				
PCB-1262 Peak 4	BNB	Ave	60083					1000				
PCB-1262 Peak 5	BNB	Ave	79749					1000				
PCB-1262 Peak 6	BNB	Ave	28487					1000				
PCB-1262 Peak 7	BNB	Ave	66814					1000				
PCB-1262 Peak 8	BNB	Ave	24552					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:36:19 ALS Bottle#: 16 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-013
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:37 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 16:58:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46046	20.0	20.0	
2	2.950	2.950	0.000	24123	20.0	20.0	
						RPD = 0.00	
9 PCB-1262							M
1	11.423	11.423	0.000	90390	1000.0	1000.0	M
1	11.970	11.970	0.000	111351	1000.0	1000.0	M
1	13.243	13.243	0.000	162594	1000.0	1000.0	M
1	14.003	14.003	0.000	125093	1000.0	1000.0	M
1	14.647	14.647	0.000	247498	1000.0	1000.0	M
1	16.220	16.220	0.000	40161	1000.0	1000.0	M
1	16.473	16.473	0.000	89336	1000.0	1000.0	M
1	16.867	16.867	0.000	32429	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	9.553	9.553	0.000	63644	1000.0	1000.0	M
2	11.187	11.187	0.000	91288	1000.0	1000.0	M
2	11.937	11.937	0.000	189773	1000.0	1000.0	M
2	12.693	12.693	0.000	60083	1000.0	1000.0	M
2	12.950	12.950	0.000	79749	1000.0	1000.0	M
2	13.687	13.687	0.000	28487	1000.0	1000.0	M
2	14.367	14.367	0.000	66814	1000.0	1000.0	M
2	15.023	15.023	0.000	24552	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

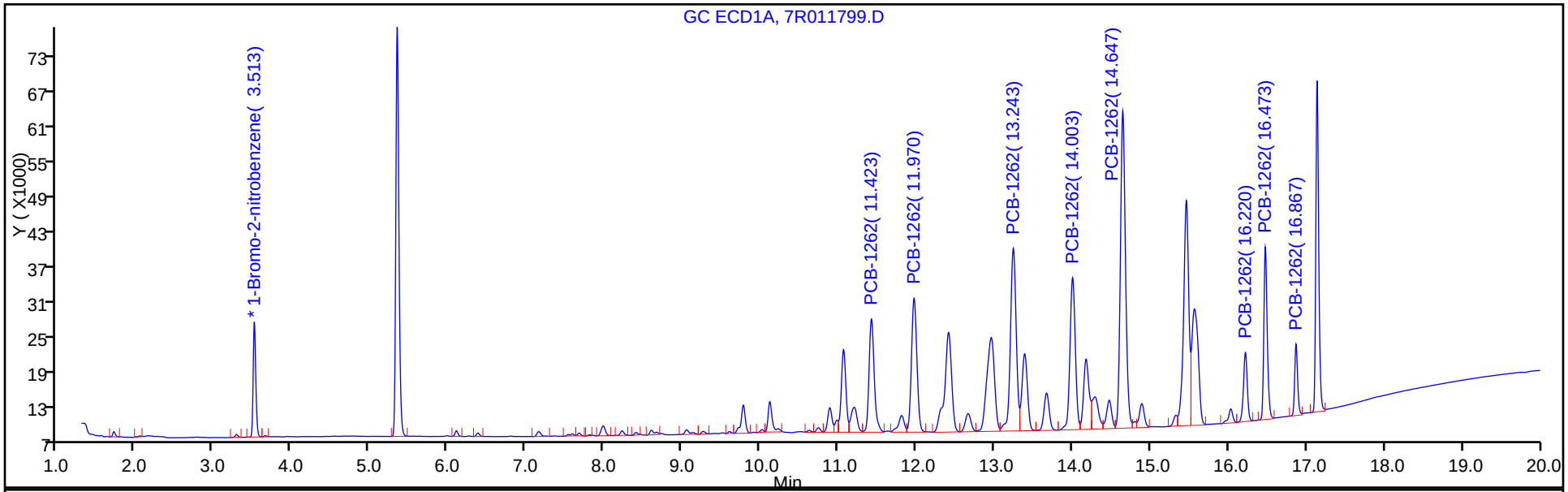
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

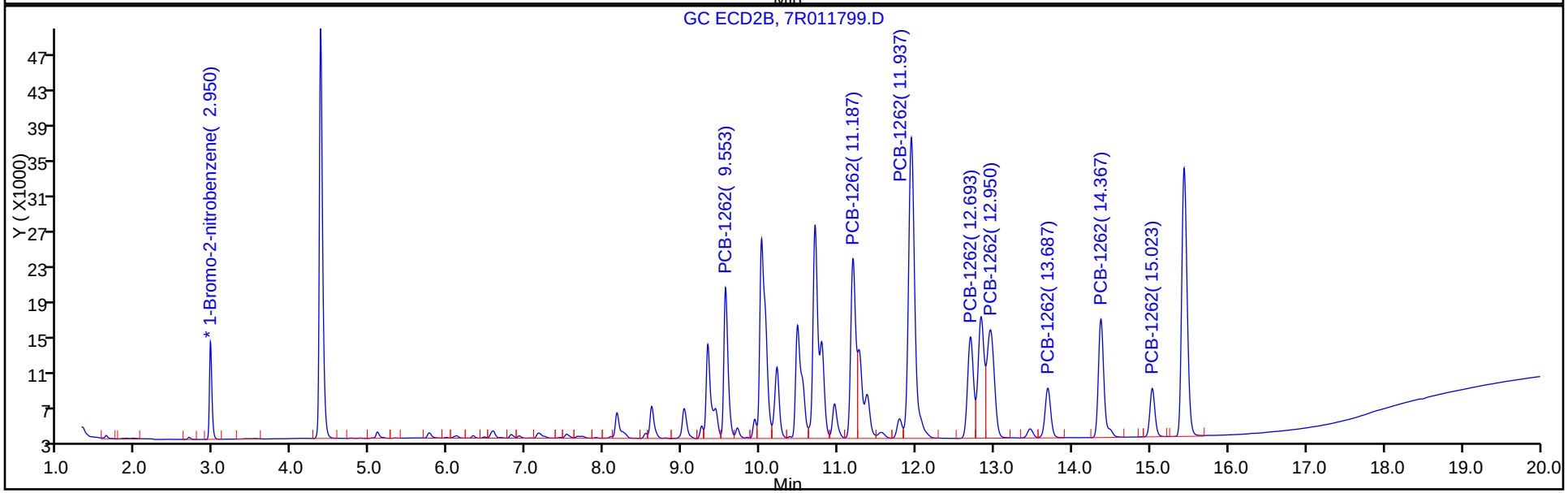
Report Date: 28-Dec-2017 12:46:40 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D

Injection Date:	27-Dec-2017 16:36:19	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 28-Dec-2017 12:46:40 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011799.D

Injection Date: 27-Dec-2017 16:36:19 Instrument ID: CPESTGC7

Lims ID: IC 1262

Client ID:

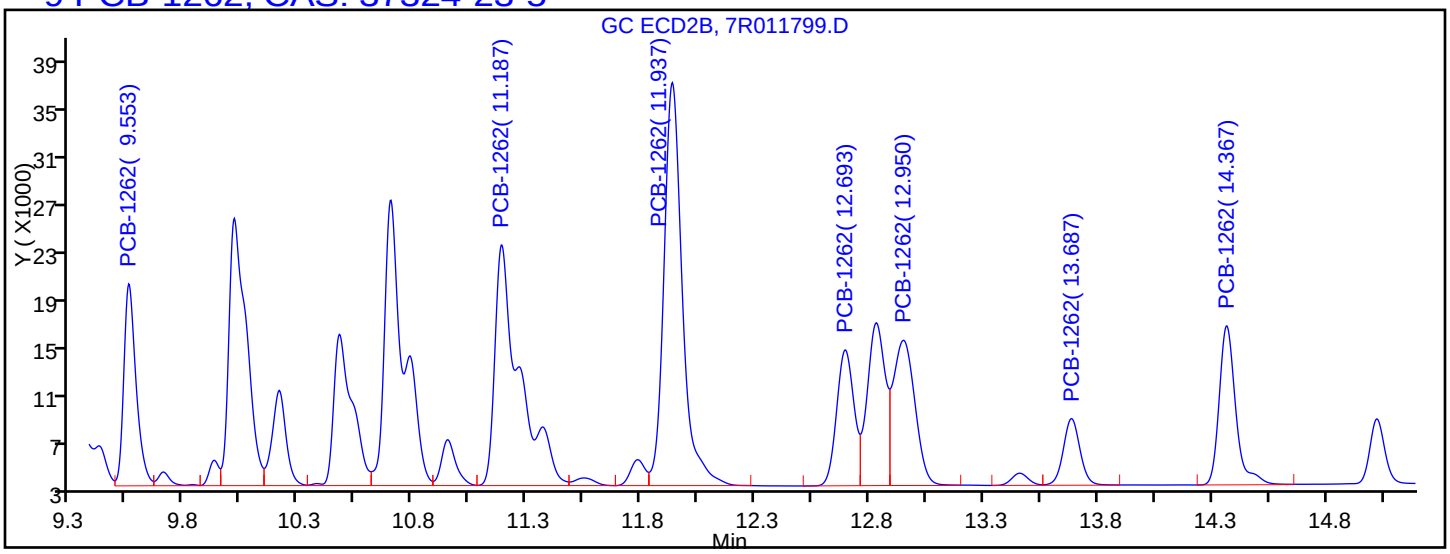
Operator ID: ALS Bottle#: 16 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

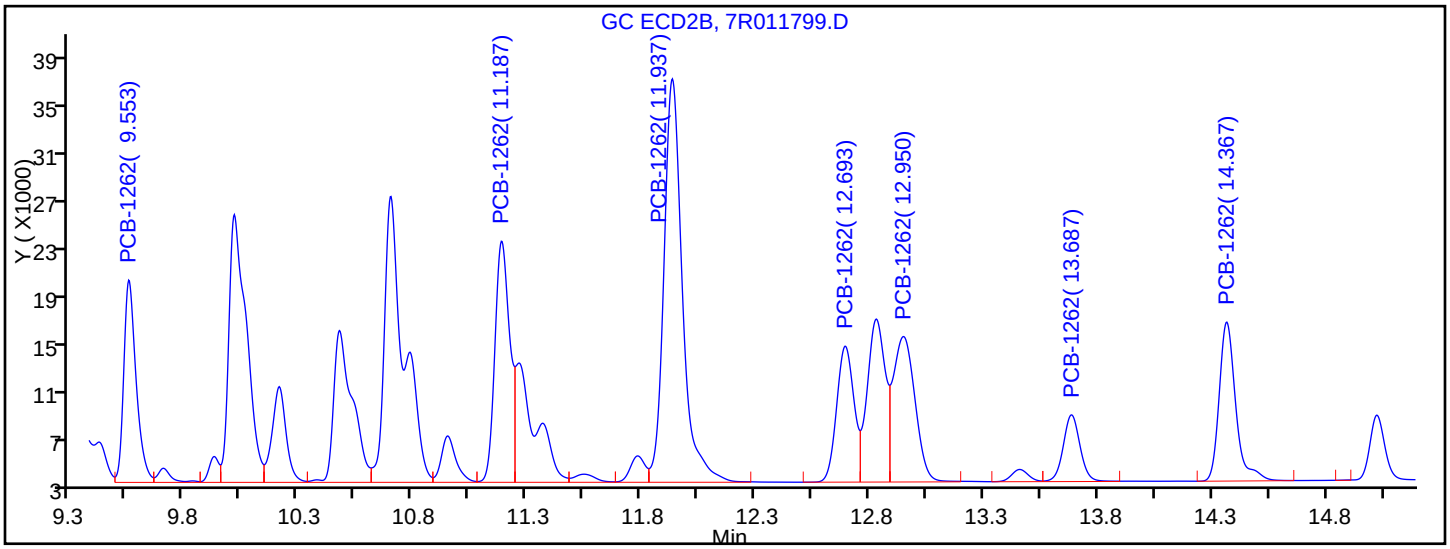
Column: Detector GC ECD2B

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

9.553	Response = 63369
11.187	Response = 151335
11.937	Response = 188808
12.693	Response = 59963
12.950	Response = 79423
13.687	Response = 28356
14.367	Response = 67018
15.023	Response = 24904



Manual Integration Results

9.553	Response = 63644	M
11.187	Response = 91288	M
11.937	Response = 189773	M
12.693	Response = 60083	M
12.950	Response = 79749	M
13.687	Response = 28487	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:59 Calibration End Date: 12/27/2017 16:59 Calibration ID: 65828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/14	7R011800.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0288					Ave		0.0288						20.0			0.9900
PCB-1268 Peak 2	0.0367					Ave		0.0367						20.0			0.9900
PCB-1268 Peak 3	0.1245					Ave		0.1245						20.0			0.9900
PCB-1268 Peak 4	0.1173					Ave		0.1173						20.0			0.9900
PCB-1268 Peak 5	0.0955					Ave		0.0955						20.0			0.9900
PCB-1268 Peak 6	0.0291					Ave		0.0291						20.0			0.9900
PCB-1268 Peak 7	0.0415					Ave		0.0415						20.0			0.9900
PCB-1268 Peak 8	0.2346					Ave		0.2346						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:59 Calibration End Date: 12/27/2017 16:59 Calibration ID: 65828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/14	7R011800.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	67145					1000				
PCB-1268 Peak 2	BNB	Ave	85787					1000				
PCB-1268 Peak 3	BNB	Ave	290657					1000				
PCB-1268 Peak 4	BNB	Ave	273928					1000				
PCB-1268 Peak 5	BNB	Ave	222871					1000				
PCB-1268 Peak 6	BNB	Ave	67825					1000				
PCB-1268 Peak 7	BNB	Ave	97003					1000				
PCB-1268 Peak 8	BNB	Ave	547673					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:59:50 ALS Bottle#: 17 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-014
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:41 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 17:26:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46694	20.0	20.0	
2	2.950	2.950	0.000	24503	20.0	20.0	
						RPD = 0.00	
10 PCB-1268							M
1	13.243	13.243	0.000	67145	1000.0	1000.0	a
1	14.013	14.013	0.000	85787	1000.0	1000.0	a
1	15.460	15.460	0.000	290657	1000.0	1000.0	a
1	15.557	15.557	0.000	273928	1000.0	1000.0	a
1	16.030	16.030	0.000	222871	1000.0	1000.0	a
1	16.190	16.190	0.000	67825	1000.0	1000.0	a
1	16.473	16.473	0.000	97003	1000.0	1000.0	a
1	16.867	16.867	0.000	547673	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
2	10.703	10.703	0.000	42567	1000.0	1000.0	M
2	11.180	11.180	0.000	57190	1000.0	1000.0	a
2	12.830	12.830	0.000	211382	1000.0	1000.0	M
2	12.933	12.933	0.000	212469	1000.0	1000.0	a
2	13.457	13.457	0.000	172782	1000.0	1000.0	a
2	13.677	13.677	0.000	48598	1000.0	1000.0	a
2	14.363	14.363	0.000	73515	1000.0	1000.0	a
2	15.023	15.023	0.000	522503	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

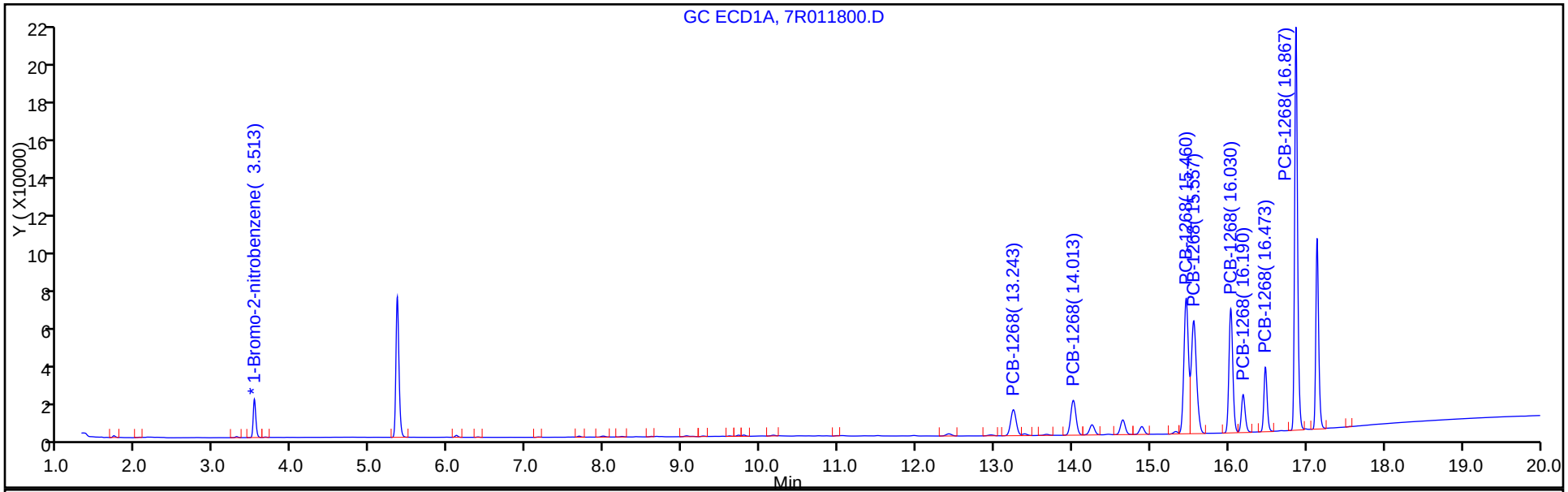
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

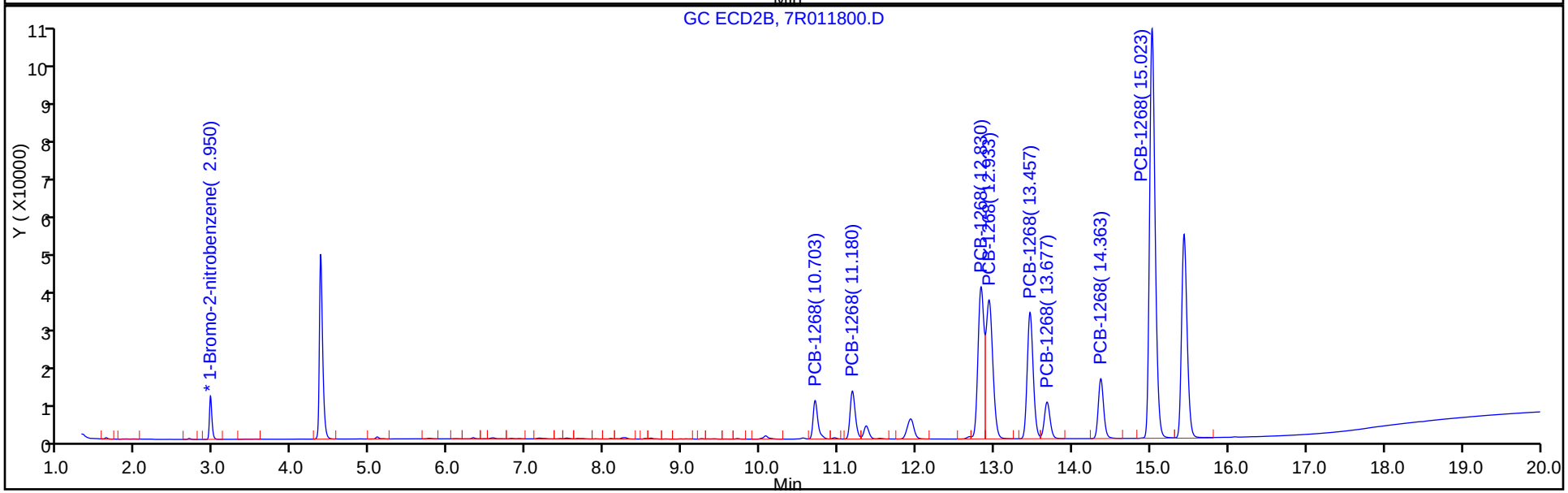
Report Date: 28-Dec-2017 12:46:43 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Injection Date:	27-Dec-2017 16:59:50	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:59 Calibration End Date: 12/27/2017 16:59 Calibration ID: 65829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/14	7R011800.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0347					Ave		0.0347						20.0			0.9900
PCB-1268 Peak 2	0.0467					Ave		0.0467						20.0			0.9900
PCB-1268 Peak 3	0.1725					Ave		0.1725						20.0			0.9900
PCB-1268 Peak 4	0.1734					Ave		0.1734						20.0			0.9900
PCB-1268 Peak 5	0.1410					Ave		0.1410						20.0			0.9900
PCB-1268 Peak 6	0.0397					Ave		0.0397						20.0			0.9900
PCB-1268 Peak 7	0.0600					Ave		0.0600						20.0			0.9900
PCB-1268 Peak 8	0.4265					Ave		0.4265						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 487360

SDG No.:

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/27/2017 16:59 Calibration End Date: 12/27/2017 16:59 Calibration ID: 65829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-487360/14	7R011800.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	42567					1000				
PCB-1268 Peak 2	BNB	Ave	57190					1000				
PCB-1268 Peak 3	BNB	Ave	211382					1000				
PCB-1268 Peak 4	BNB	Ave	212469					1000				
PCB-1268 Peak 5	BNB	Ave	172782					1000				
PCB-1268 Peak 6	BNB	Ave	48598					1000				
PCB-1268 Peak 7	BNB	Ave	73515					1000				
PCB-1268 Peak 8	BNB	Ave	522503					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Dec-2017 16:59:50 ALS Bottle#: 17 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-014
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:46:41 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 17:26:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46694	20.0	20.0	
2	2.950	2.950	0.000	24503	20.0	20.0	
						RPD = 0.00	
10 PCB-1268							M
1	13.243	13.243	0.000	67145	1000.0	1000.0	a
1	14.013	14.013	0.000	85787	1000.0	1000.0	a
1	15.460	15.460	0.000	290657	1000.0	1000.0	a
1	15.557	15.557	0.000	273928	1000.0	1000.0	a
1	16.030	16.030	0.000	222871	1000.0	1000.0	a
1	16.190	16.190	0.000	67825	1000.0	1000.0	a
1	16.473	16.473	0.000	97003	1000.0	1000.0	a
1	16.867	16.867	0.000	547673	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
2	10.703	10.703	0.000	42567	1000.0	1000.0	M
2	11.180	11.180	0.000	57190	1000.0	1000.0	a
2	12.830	12.830	0.000	211382	1000.0	1000.0	M
2	12.933	12.933	0.000	212469	1000.0	1000.0	a
2	13.457	13.457	0.000	172782	1000.0	1000.0	a
2	13.677	13.677	0.000	48598	1000.0	1000.0	a
2	14.363	14.363	0.000	73515	1000.0	1000.0	a
2	15.023	15.023	0.000	522503	1000.0	1000.0	a
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

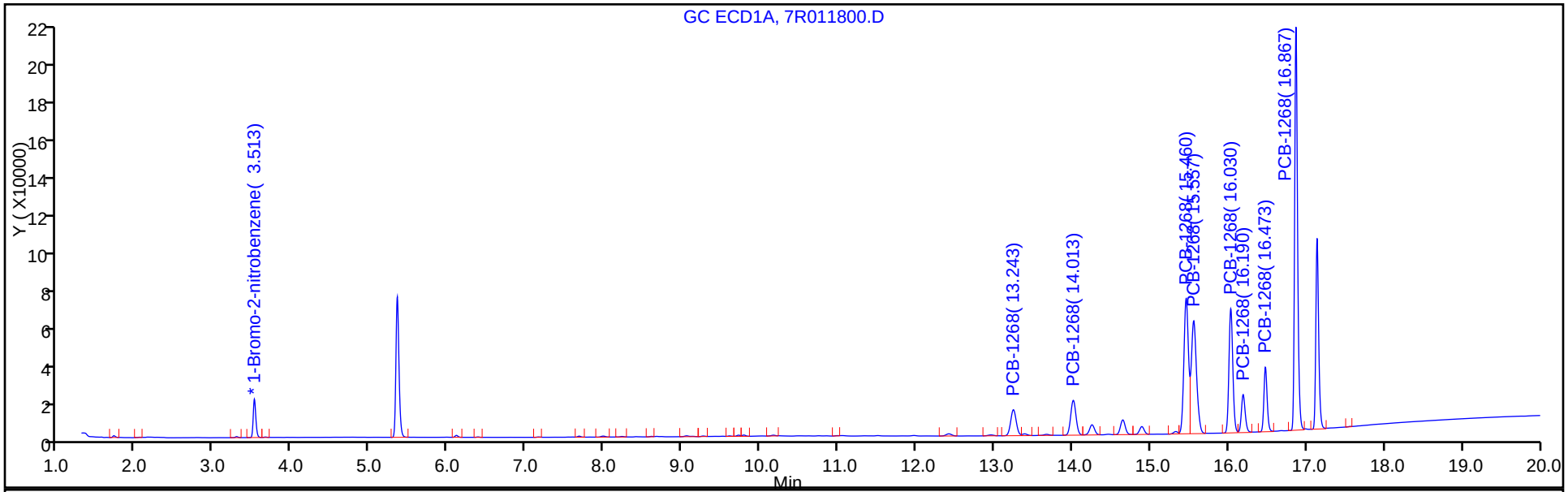
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

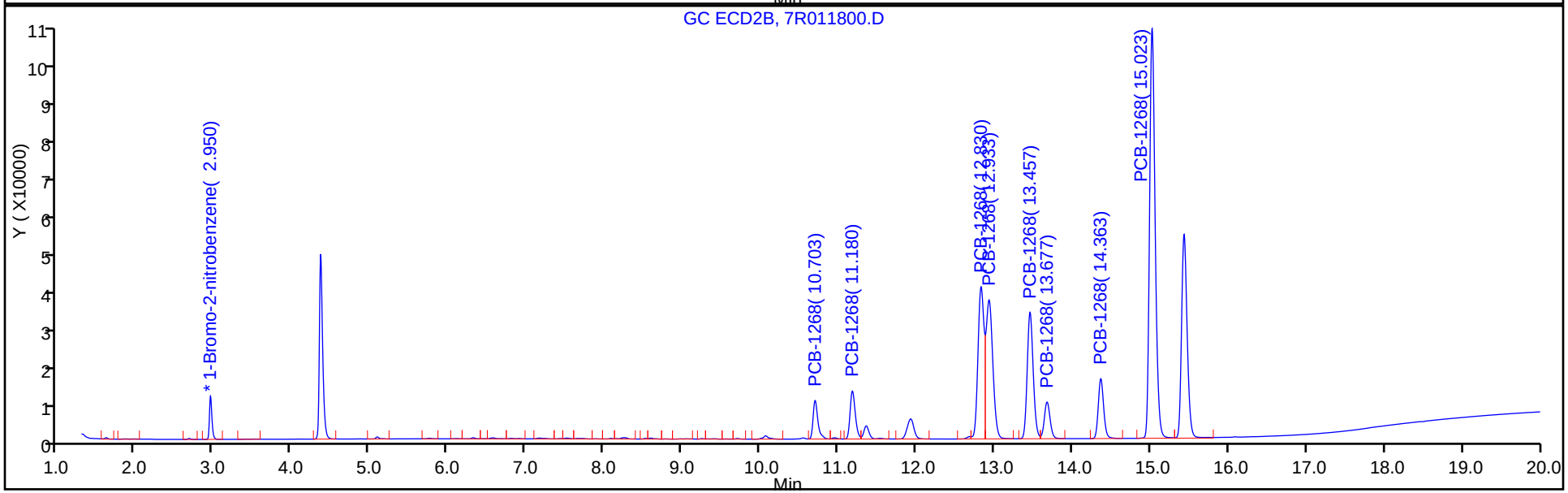
Report Date: 28-Dec-2017 12:46:43 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Injection Date:	27-Dec-2017 16:59:50	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 28-Dec-2017 12:46:43 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Injection Date: 27-Dec-2017 16:59:50 Instrument ID: CPESTGC7

Lims ID: IC 1268

Client ID:

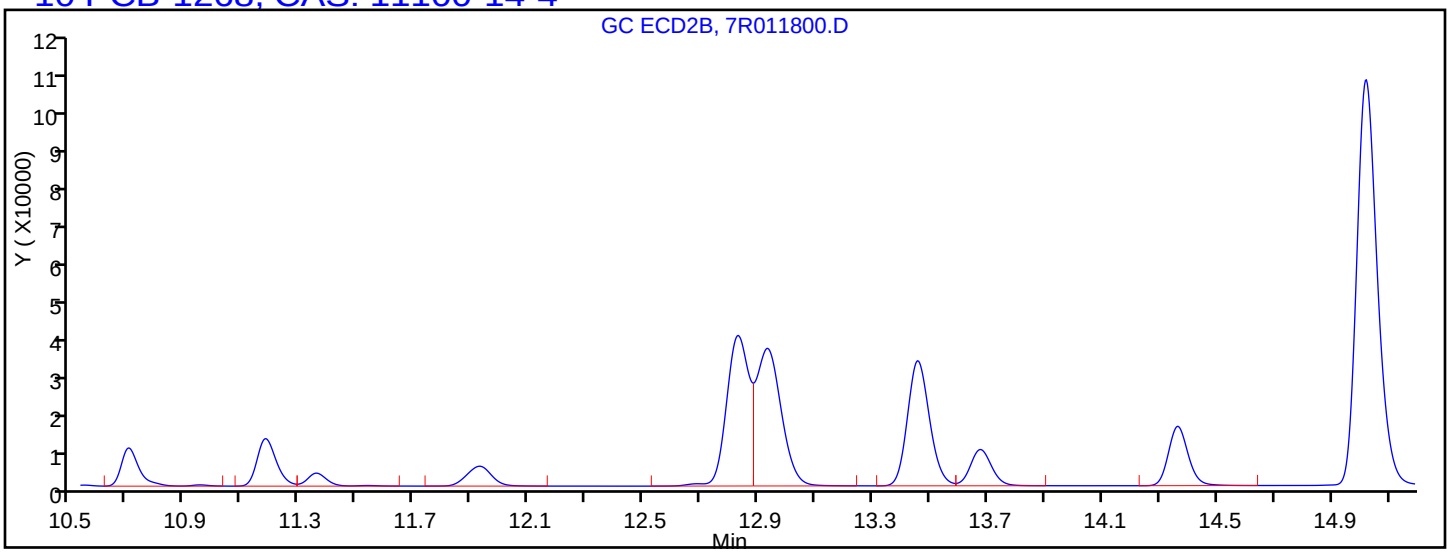
Operator ID: ALS Bottle#: 17 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

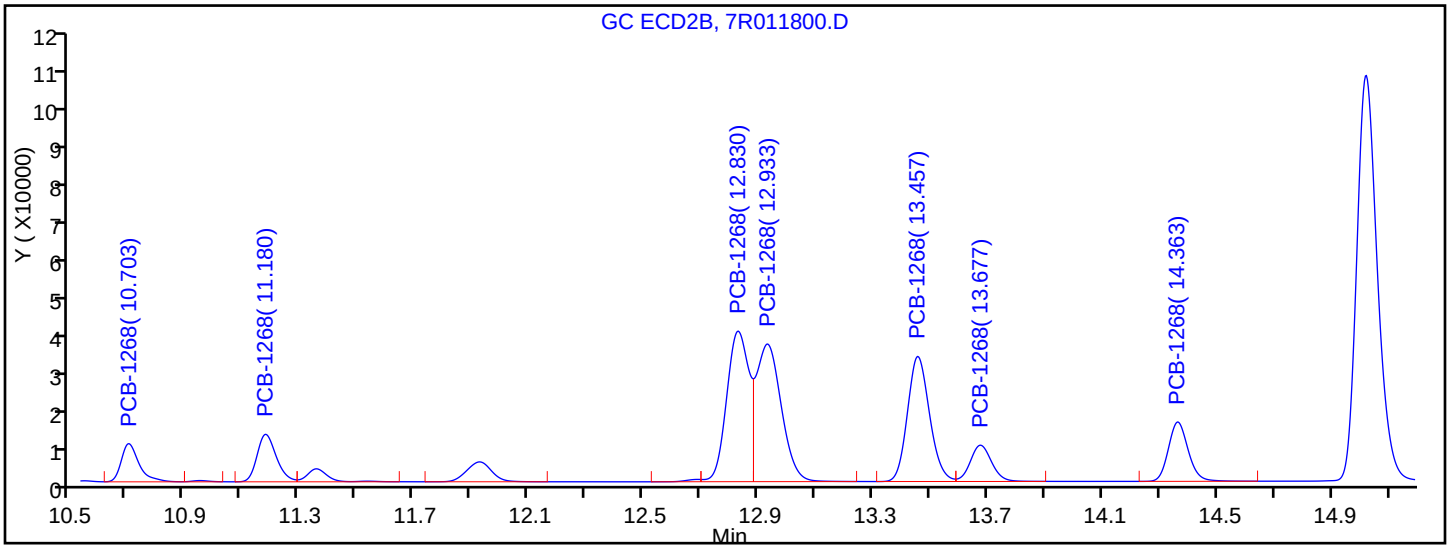
Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

Column: Detector GC ECD2B

10 PCB-1268, CAS: 11100-14-4



Processing Integration Results



Manual Integration Results

10.703	Response = 42567	M
11.180	Response = 57190	M
12.830	Response = 211382	M
12.933	Response = 212469	M
13.457	Response = 172782	M
13.677	Response = 48598	M
14.363	Response = 73515	M
15.023	Response = 522503	M

Reviewer: patelji, 27-Dec-2017 17:26:43

Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 12:17 Calibration End Date: 12/14/2017 14:40 Calibration ID: 65408

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/2	8F123324.D
Level 2	IC 460-484258/3	8F123325.D
Level 3	IC 460-484258/4	8F123326.D
Level 4	IC 460-484258/5	8F123327.D
Level 5	IC 460-484258/9	8F123331.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0184	0.0195	0.0186	0.0180	0.0198	Ave		0.0189				4.1		20.0			0.9900
PCB-1016 Peak 2	0.0360	0.0412	0.0393	0.0376	0.0414	Ave		0.0391				5.9		20.0			0.9900
PCB-1016 Peak 3	0.0686	0.0724	0.0698	0.0673	0.0756	Ave		0.0707				4.7		20.0			0.9900
PCB-1016 Peak 4	0.0301	0.0308	0.0298	0.0285	0.0323	Ave		0.0303				4.6		20.0			0.9900
PCB-1016 Peak 5	0.0238	0.0227	0.0226	0.0218	0.0253	Ave		0.0232				5.7		20.0			0.9900
PCB-1016 Peak 6	0.0238	0.0230	0.0223	0.0217	0.0240	Ave		0.0230				4.3		20.0			0.9900
PCB-1016 Peak 7	0.0263	0.0260	0.0256	0.0249	0.0271	Ave		0.0260				3.1		20.0			0.9900
PCB-1016 Peak 8	0.0181	0.0216	0.0214	0.0206	0.0220	Ave		0.0208				7.5		20.0			0.9900
PCB-1260 Peak 1	0.0249	0.0217	0.0210	0.0206	0.0218	Ave		0.0220				7.8		20.0			0.9900
PCB-1260 Peak 2	0.0493	0.0492	0.0461	0.0445	0.0477	Ave		0.0474				4.4		20.0			0.9900
PCB-1260 Peak 3	0.0546	0.0551	0.0514	0.0498	0.0543	Ave		0.0530				4.4		20.0			0.9900
PCB-1260 Peak 4	0.0240	0.0297	0.0297	0.0294	0.0336	Ave		0.0293				11.7		20.0			0.9900
PCB-1260 Peak 5	0.0310	0.0358	0.0343	0.0330	0.0381	Ave		0.0344				7.8		20.0			0.9900
PCB-1260 Peak 6	0.0704	0.0732	0.0693	0.0669	0.0759	Ave		0.0711				4.9		20.0			0.9900
PCB-1260 Peak 7	0.0591	0.0679	0.0657	0.0639	0.0731	Ave		0.0659				7.8		20.0			0.9900
PCB-1260 Peak 8	0.0193	0.0167	0.0168	0.0166	0.0195	Ave		0.0178				8.3		20.0			0.9900
Tetrachloro-m-xylene	0.8679	0.9329	0.9195	0.9273	1.0811	Ave		0.9457				8.5		20.0			0.9900
DCB Decachlorobiphenyl	0.5980	0.5982	0.5909	0.5999	0.7100	Ave		0.6194				8.2		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 12:17 Calibration End Date: 12/14/2017 14:40 Calibration ID: 65408

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/2	8F123324.D
Level 2	IC 460-484258/3	8F123325.D
Level 3	IC 460-484258/4	8F123326.D
Level 4	IC 460-484258/5	8F123327.D
Level 5	IC 460-484258/9	8F123331.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	182069	1810974	3493644	5119803	9070255	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	356311	3828569	7379031	10731859	18913444	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	678681	6729334	13092287	19188535	34575802	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	298202	2861763	5579543	8121911	14761424	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	235236	2106194	4238646	6227383	11553337	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	236063	2133461	4175620	6189181	10973755	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	260168	2415058	4793659	7107268	12395046	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	179306	2005381	4016503	5884899	10075598	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	246667	2019037	3940122	5861605	9974616	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	488142	4575084	8651803	12691470	21803055	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	540381	5124035	9630141	14188075	24837408	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	237389	2764330	5567860	8374697	15370742	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	307310	3329554	6424521	9402644	17421900	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	697134	6802068	12989554	19064976	34681581	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	584660	6313627	12315488	18222289	33402921	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	190604	1556904	3142983	4724889	8920117	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	2147533	8672196	17242003	26442093	39542822	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	1479792	5560497	11079967	17107160	25968156	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Dec-2017 12:17:10 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-002
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:54:55 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:21:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.409	-0.094	3959269	20.0	20.0	
2	1.954	1.953	0.001	8215995	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.610	3.611	-0.001	2147533	12.5	11.5	
2	2.922	2.923	-0.001	3118646	12.5	12.2	
						RPD = 6.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.367	4.368	-0.001	182069	50.0	48.8	
1	4.949	4.950	-0.001	356311	50.0	46.0	M
1	5.566	5.569	-0.003	678681	50.0	48.5	M
1	5.750	5.751	-0.001	298202	50.0	49.7	M
1	5.884	5.885	-0.001	235236	50.0	51.2	M
1	6.374	6.375	-0.001	236063	50.0	51.9	M
1	6.534	6.535	-0.001	260168	50.0	50.6	
1	6.927	6.929	-0.002	179306	50.0	43.6	M
		Average of Peak Amounts =				48.8	
2	3.443	3.443	0.000	312349	50.0	52.5	
2	3.922	3.921	0.001	680788	50.0	55.9	M
2	4.175	4.176	-0.001	396202	50.0	51.1	M
2	4.523	4.525	-0.002	1446736	50.0	56.1	M
2	4.696	4.698	-0.002	562268	50.0	56.1	M
2	4.773	4.774	-0.001	368664	50.0	53.2	M
2	5.225	5.228	-0.003	593412	50.0	54.1	M
2	5.707	5.709	-0.002	370444	50.0	58.3	M
		Average of Peak Amounts =				54.7	
						RPD = 11.36	
8 PCB-1260							M
1	7.957	7.960	-0.003	246667	50.0	56.6	M
1	8.224	8.225	-0.001	488142	50.0	52.1	M
1	8.610	8.611	-0.001	540381	50.0	51.5	M
1	9.517	9.517	0.000	237389	50.0	41.0	
1	9.925	9.925	0.000	307310	50.0	45.1	M
1	10.221	10.223	-0.002	697134	50.0	49.5	M
1	10.586	10.589	-0.003	584660	50.0	44.8	M
1	11.098	11.105	-0.007	190604	50.0	54.2	M
		Average of Peak Amounts =				49.3	
2	6.755	6.755	0.000	894766	50.0	55.8	
2	7.505	7.506	-0.001	1473051	50.0	51.7	M
2	7.681	7.683	-0.002	653765	50.0	51.7	M
2	8.055	8.057	-0.002	776710	50.0	54.8	M
2	8.592	8.594	-0.002	1927899	50.0	55.4	M
2	9.132	9.133	-0.001	933068	50.0	51.1	M
2	9.329	9.323	0.006	486233	50.0	50.0	M
2	10.094	10.097	-0.003	403379	50.0	50.1	M
		Average of Peak Amounts =				52.6	
						RPD = 6.36	
$ 11 DCB Decachlorobiphenyl							
1	11.556	11.567	-0.011	1479792	12.5	12.1	
2	10.569	10.575	-0.006	3651080	12.5	13.5	
						RPD = 10.86	
S 12 Polychlorinated biphenyls, Total							
1						98.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

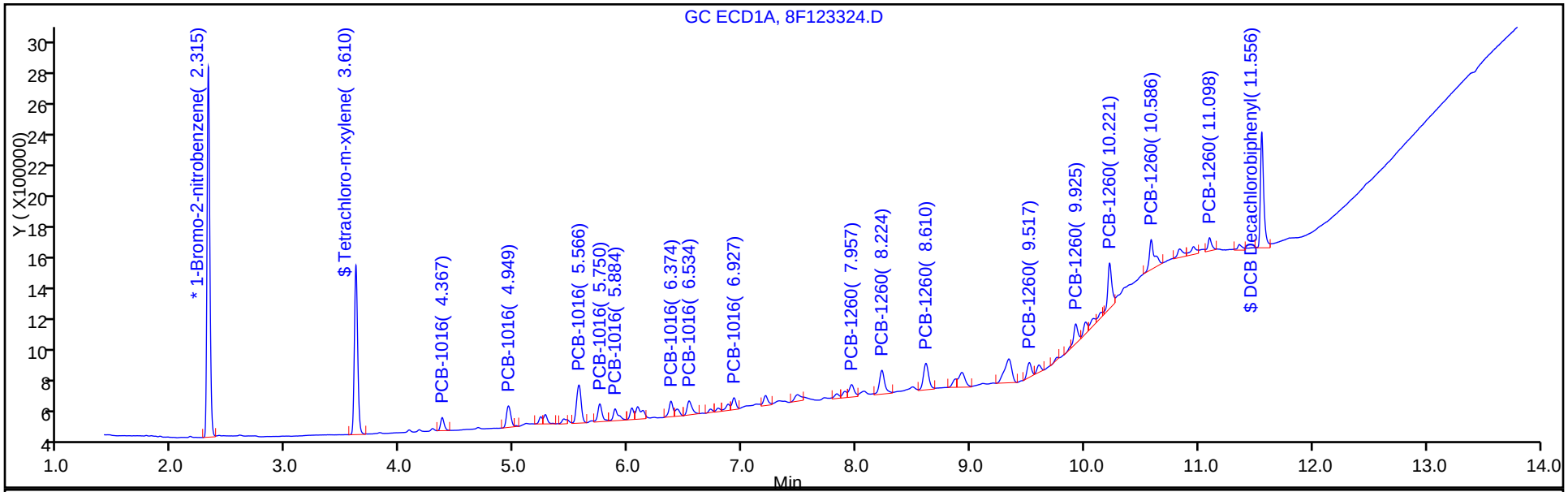
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

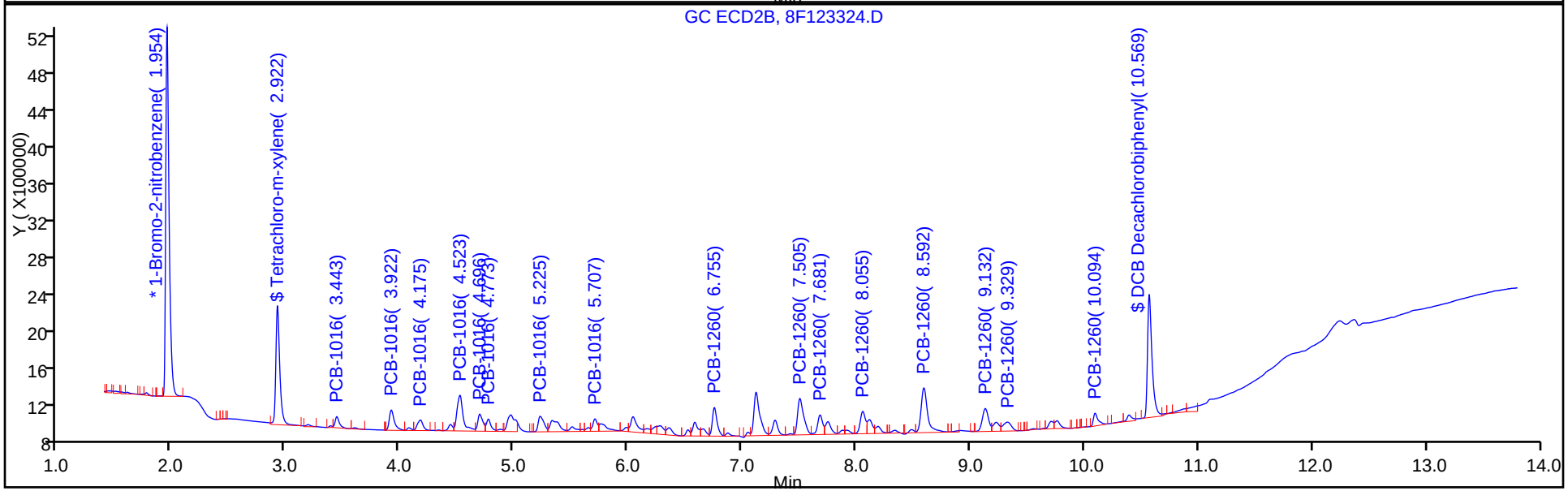
Report Date: 14-Dec-2017 17:54:57 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

Injection Date:	14-Dec-2017 12:17:10	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 14-Dec-2017 17:54:57 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

Injection Date: 14-Dec-2017 12:17:10 Instrument ID: CPESTGC8

Lims ID: IC PCB 1

Client ID:

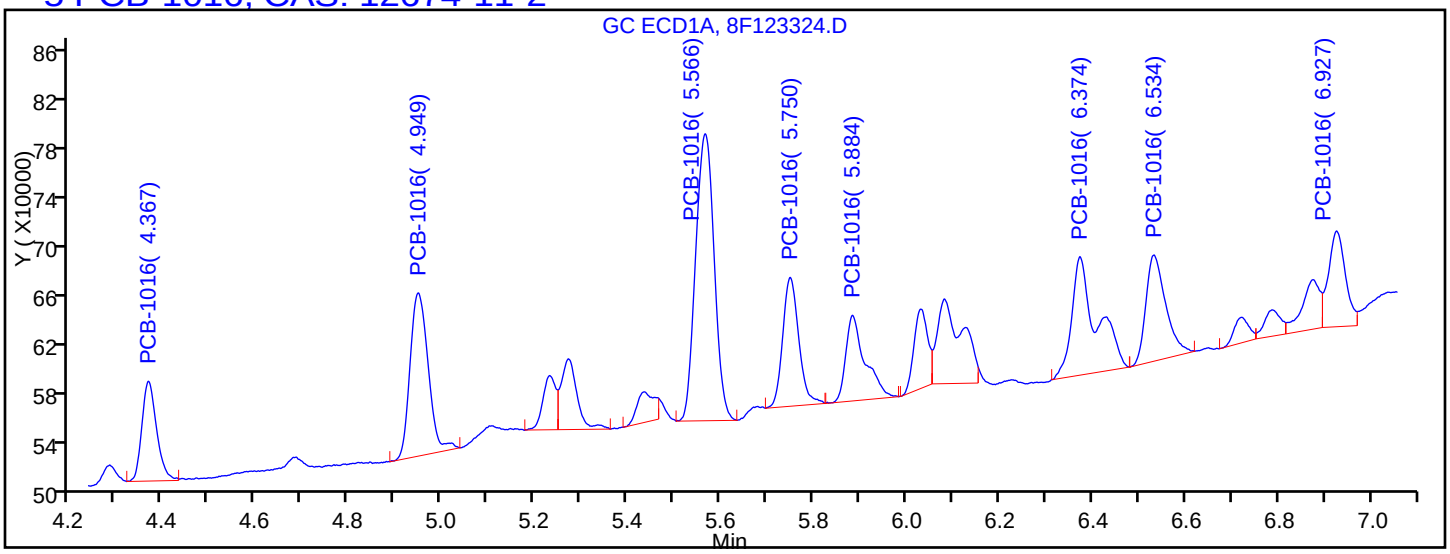
Operator ID: ALS Bottle#: 6 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

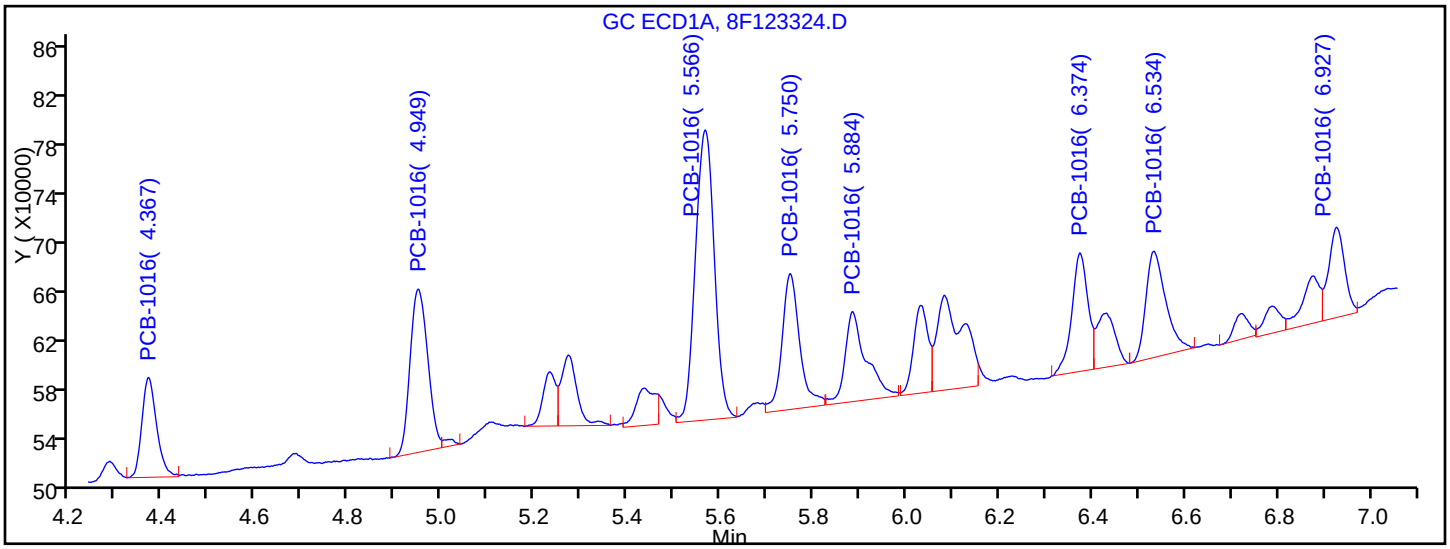
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.367	Response = 182069
4.949	Response = 366192
5.566	Response = 659578
5.750	Response = 255710
5.884	Response = 203539
6.374	Response = 359169
6.534	Response = 260168
6.927	Response = 201961



Manual Integration Results

4.367	Response = 182069	
4.949	Response = 356311	M
5.566	Response = 678681	M
5.750	Response = 298202	M
5.884	Response = 235236	M
6.374	Response = 236063	M

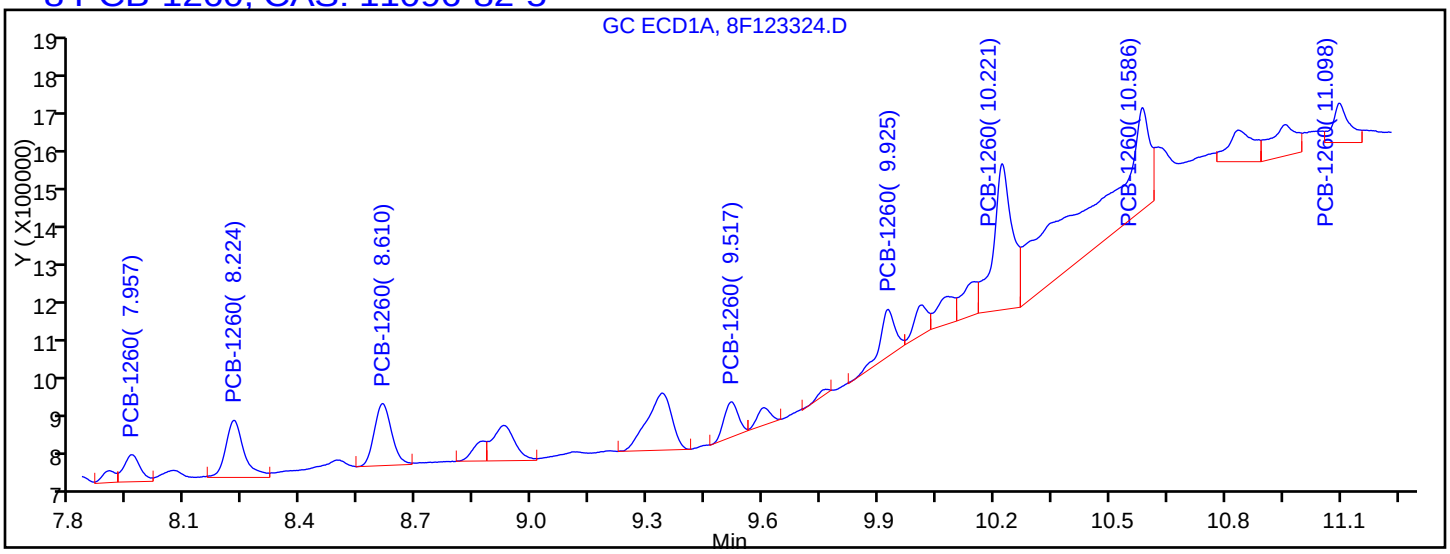
Report Date: 14-Dec-2017 17:54:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

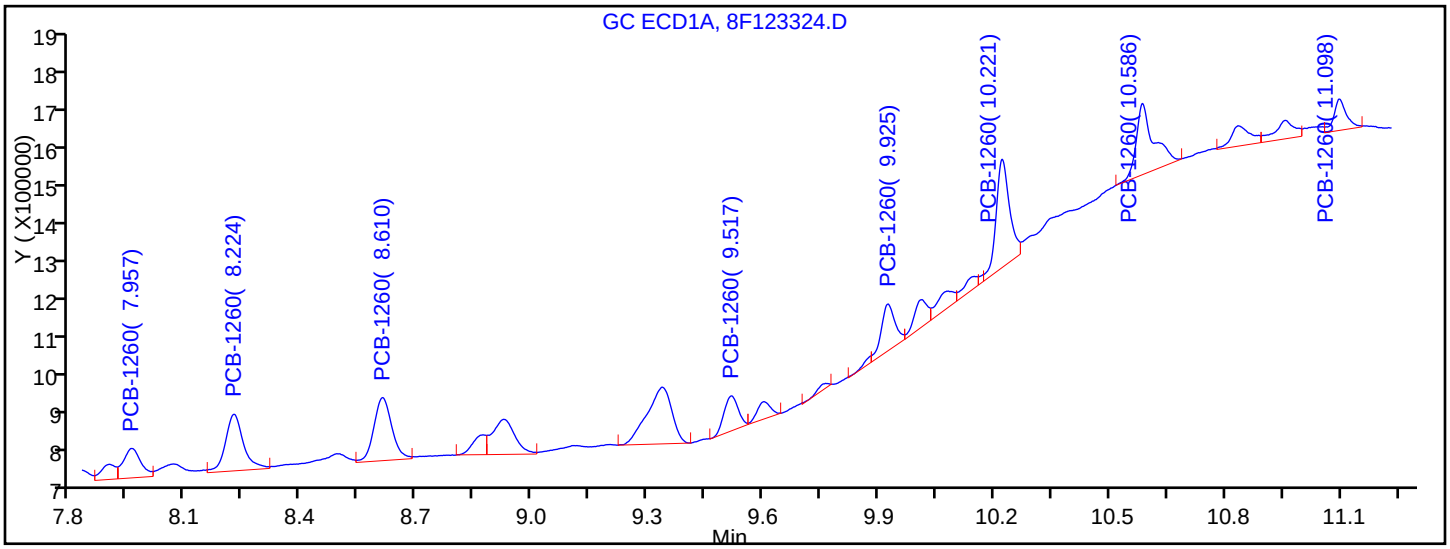
Injection Date:	14-Dec-2017 12:17:10	Instrument ID:	CPESTGC8
Lims ID:	IC PCB 1		
Client ID:			
Operator ID:		ALS Bottle#:	6 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.957	Response = 212017
8.224	Response = 499365
8.610	Response = 509192
9.517	Response = 237389
9.925	Response = 332893
10.221	Response = 1320064
10.586	Response = 2944420
11.098	Response = 319172



Manual Integration Results

7.957	Response = 246667	M
8.224	Response = 488142	M
8.610	Response = 540381	M
9.517	Response = 237389	
9.925	Response = 307310	M
10.221	Response = 697134	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Dec-2017 12:34:33 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-003
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:54:59 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:21:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.409	-0.093	3718368	20.0	20.0	
2	1.954	1.953	0.001	7785646	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.611	3.611	0.000	8672196	50.0	49.3	
2	2.924	2.923	0.001	12306523	50.0	50.9	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.367	4.368	-0.001	1810974	500.0	516.5	
1	4.949	4.950	-0.001	3828569	500.0	526.6	
1	5.568	5.569	-0.001	6729334	500.0	511.7	
1	5.751	5.751	0.000	2861763	500.0	508.2	
1	5.885	5.885	0.000	2106194	500.0	487.7	
1	6.376	6.375	0.001	2133461	500.0	499.9	
1	6.534	6.535	-0.001	2415058	500.0	500.1	M
1	6.929	6.929	0.000	2005381	500.0	519.7	
		Average of Peak Amounts =				508.8	
2	3.444	3.443	0.001	2922477	500.0	518.2	
2	3.922	3.921	0.001	6096514	500.0	528.6	M
2	4.177	4.176	0.001	3892153	500.0	529.5	M
2	4.525	4.525	0.000	12776130	500.0	522.4	M
2	4.698	4.698	0.000	4967374	500.0	523.3	M
2	4.774	4.774	0.000	3345166	500.0	509.9	M
2	5.228	5.228	0.000	5509805	500.0	530.5	M
2	5.708	5.709	-0.001	3165065	500.0	525.4	M
		Average of Peak Amounts =				523.5	
						RPD = 2.85	
8 PCB-1260							M
1	7.960	7.960	0.000	2019037	500.0	493.5	M
1	8.225	8.225	0.000	4575084	500.0	519.5	M
1	8.612	8.611	0.001	5124035	500.0	519.7	M
1	9.517	9.517	0.000	2764330	500.0	507.8	M
1	9.923	9.925	-0.002	3329554	500.0	520.0	M
1	10.220	10.223	-0.003	6802068	500.0	514.5	M
1	10.585	10.589	-0.004	6313627	500.0	515.1	M
1	11.097	11.105	-0.008	1556904	500.0	471.3	M
		Average of Peak Amounts =				507.7	
2	6.756	6.755	0.001	7909753	500.0	520.2	M
2	7.507	7.506	0.001	14054347	500.0	520.6	M
2	7.684	7.683	0.001	6546970	500.0	546.5	M
2	8.058	8.057	0.001	7031013	500.0	523.4	M
2	8.595	8.594	0.001	16982823	500.0	515.0	M
2	9.135	9.133	0.002	9048264	500.0	523.2	
2	9.325	9.323	0.002	4697683	500.0	510.1	
2	10.095	10.097	-0.002	3980652	500.0	521.4	
		Average of Peak Amounts =				522.5	
						RPD = 2.89	
$ 11 DCB Decachlorobiphenyl							M
1	11.555	11.567	-0.012	5560497	50.0	48.3	M
2	10.569	10.575	-0.006	13317018	50.0	51.8	
						RPD = 6.99	
S 12 Polychlorinated biphenyls, Total							
1						1016.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

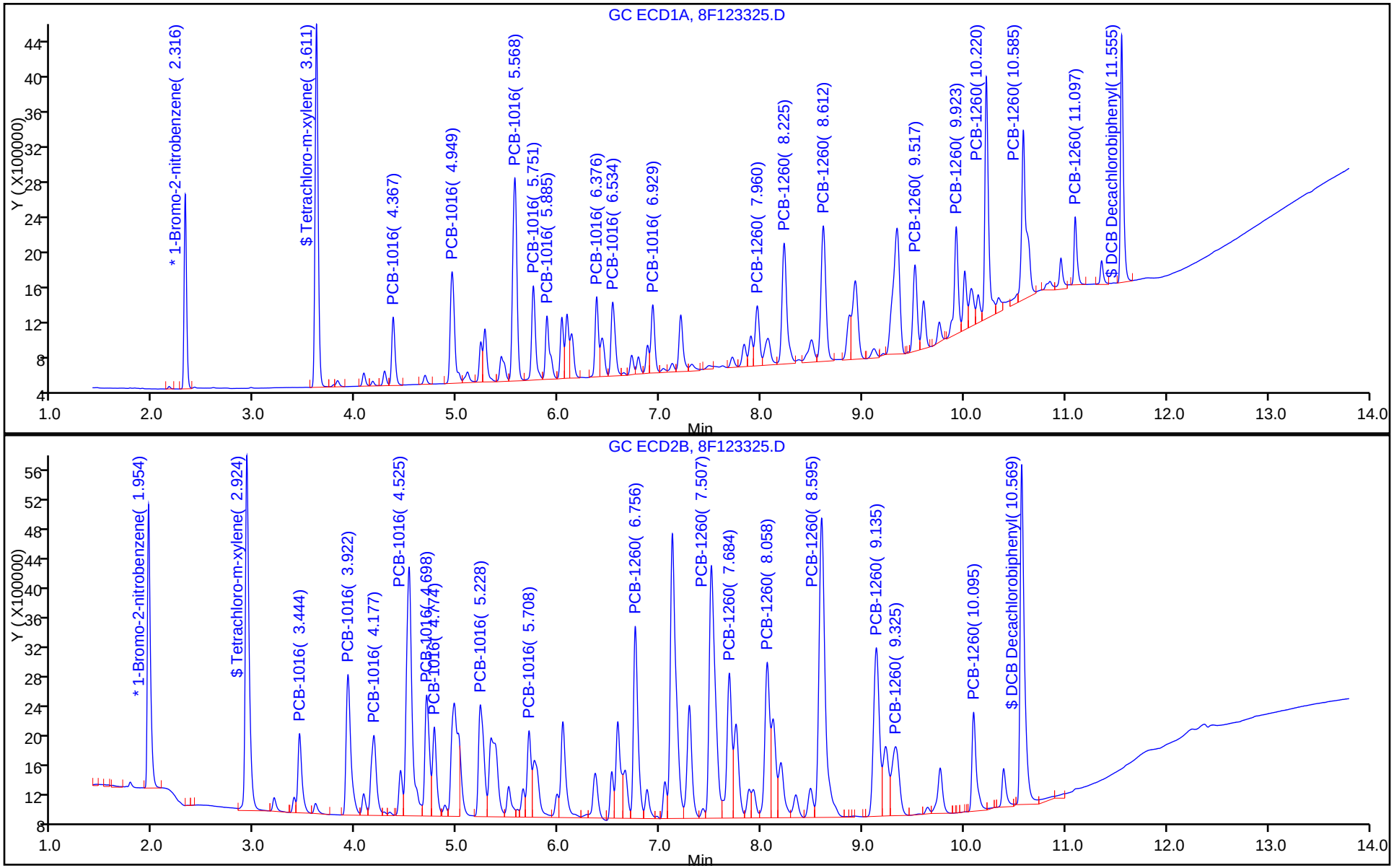
SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:01 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date:	14-Dec-2017 12:34:33	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 14-Dec-2017 17:55:01 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date: 14-Dec-2017 12:34:33 Instrument ID: CPESTGC8

Lims ID: IC PCB 2

Client ID:

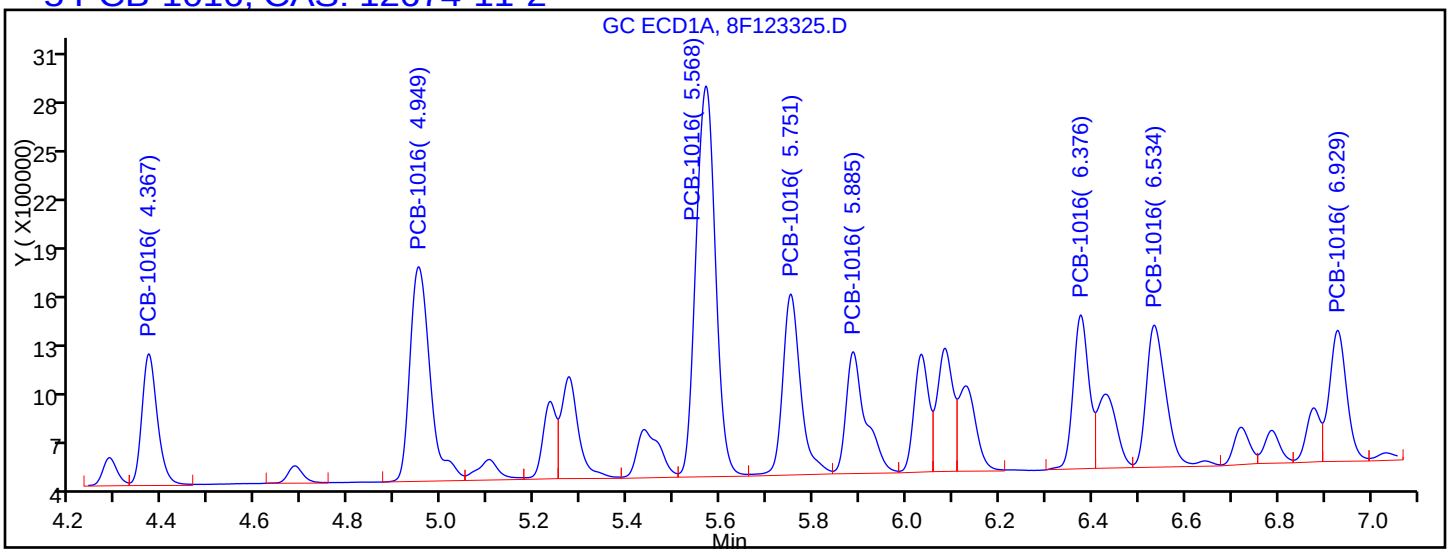
Operator ID: ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

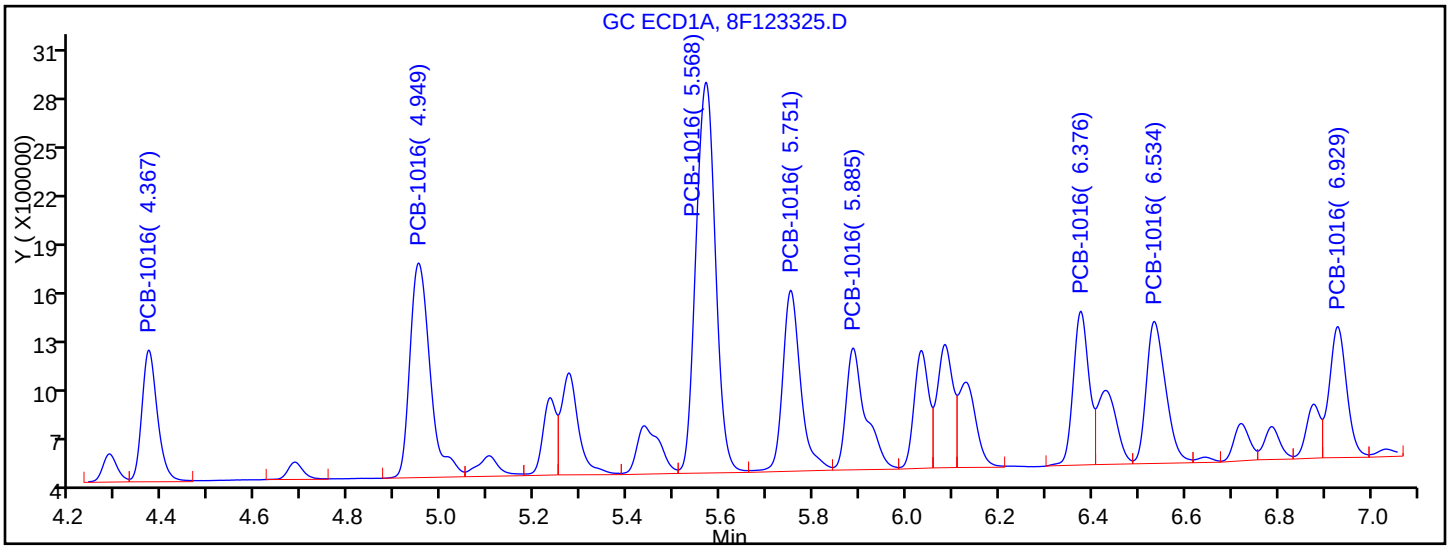
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.367	Response = 1810974
4.949	Response = 3828569
5.568	Response = 6729334
5.751	Response = 2861763
5.885	Response = 2106194
6.376	Response = 2133461
6.534	Response = 2488361
6.929	Response = 2005381



Manual Integration Results

4.367	Response = 1810974
4.949	Response = 3828569
5.568	Response = 6729334
5.751	Response = 2861763
5.885	Response = 2106194
6.376	Response = 2133461

Report Date: 14-Dec-2017 17:55:01 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date: 14-Dec-2017 12:34:33 Instrument ID: CPESTGC8

Lims ID: IC PCB 2

Client ID:

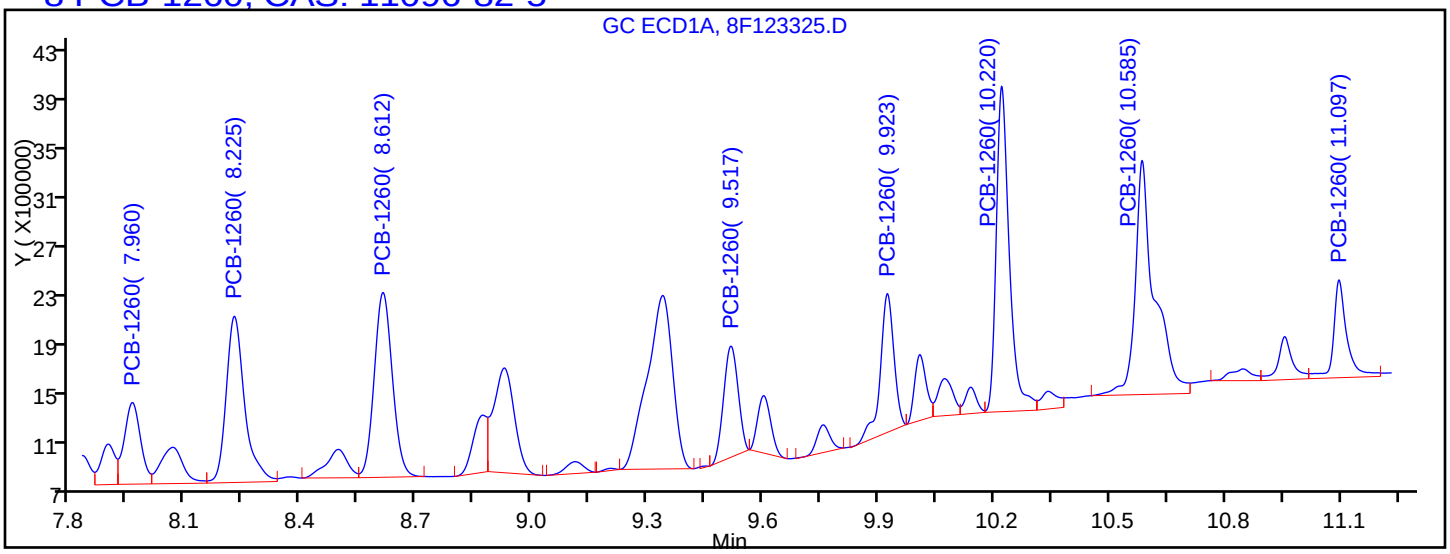
Operator ID: ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

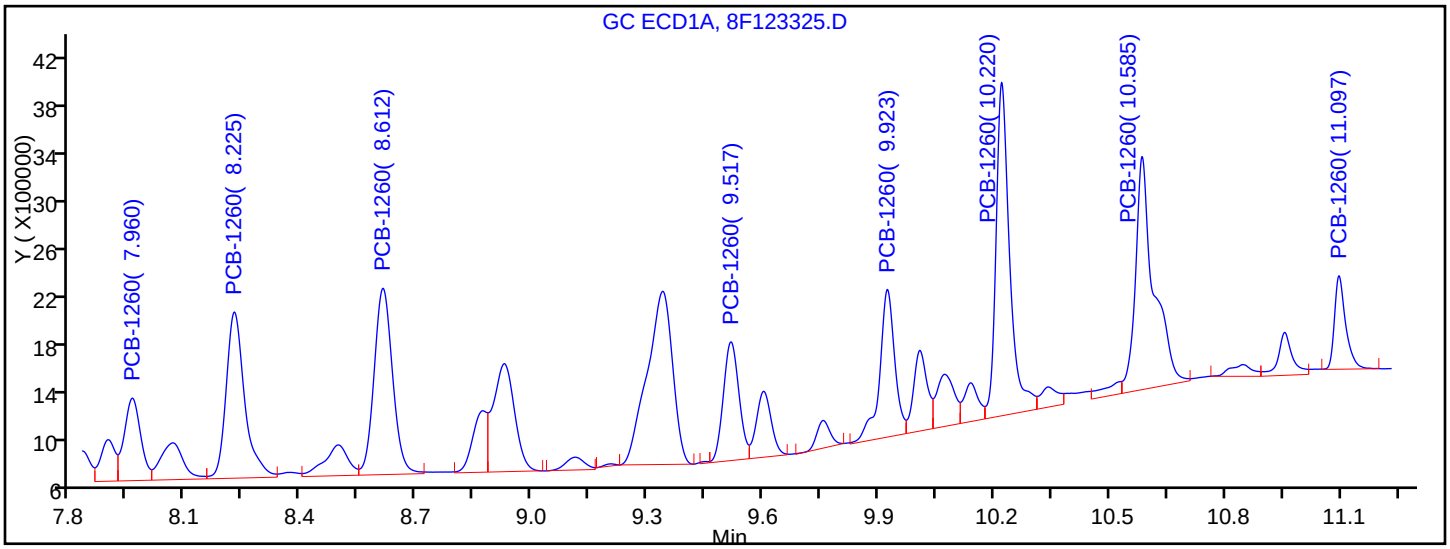
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.960	Response = 1976021
8.225	Response = 4556604
8.612	Response = 4973886
9.517	Response = 2393165
9.923	Response = 2828446
10.220	Response = 6324371
10.585	Response = 6706027
11.097	Response = 1933872



Manual Integration Results

7.960	Response = 2019037	M
8.225	Response = 4575084	M
8.612	Response = 5124035	M
9.517	Response = 2764330	M
9.923	Response = 3329554	M
10.220	Response = 6802068	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

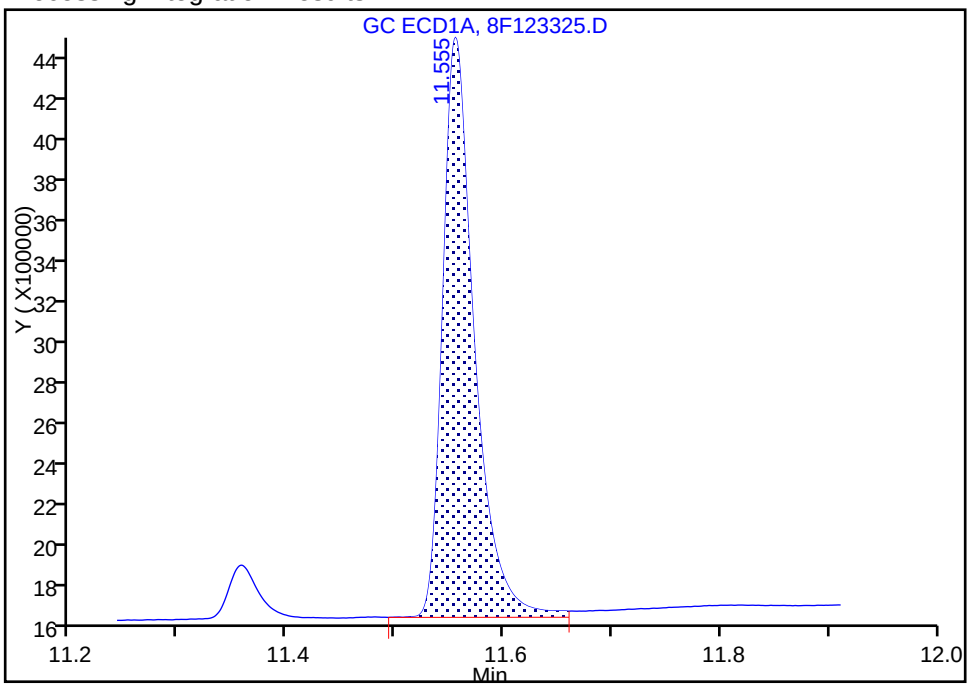
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D				
Injection Date:	14-Dec-2017 12:34:33	Instrument ID:	CPESTGC8		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

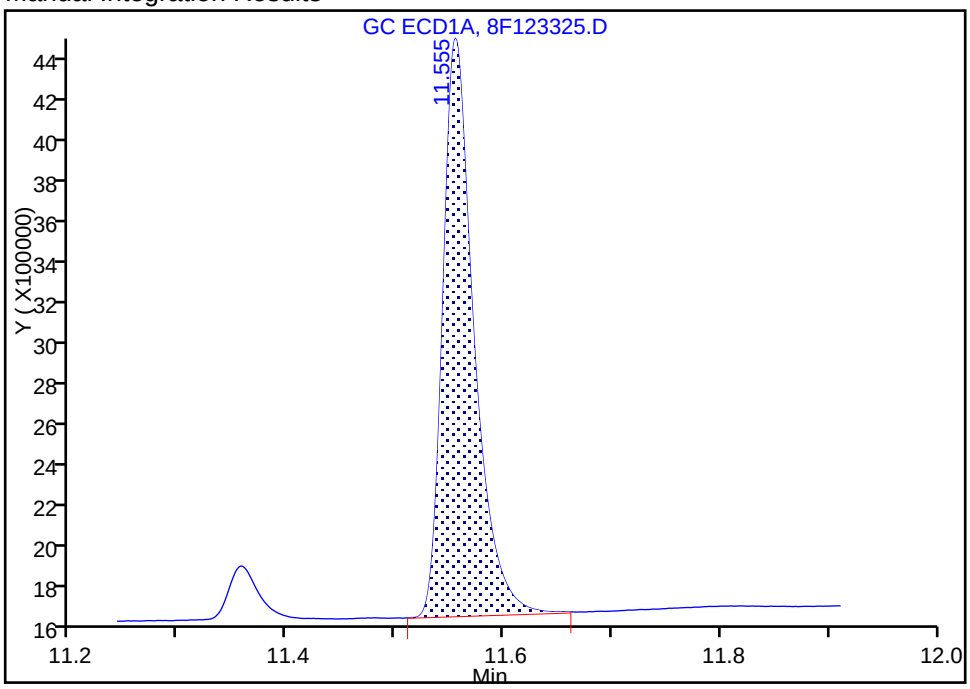
Processing Integration Results

RT: 11.55
Area: 5669009
Amount: 48.899042
Amount Units: ug/l



Manual Integration Results

RT: 11.55
Area: 5560497
Amount: 48.287053
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:32:00

Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 14-Dec-2017 12:51:59 ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-004
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:04 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:19:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.316	0.000	3750490	20.0	20.0	
2	1.954	1.954	0.000	7895834	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.612	3.612	0.000	17242003	100.0	97.2	
2	2.924	2.924	0.000	23971383	100.0	97.8	
						RPD = 0.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.368	4.368	0.000	3493644	1000.0	987.8	
1	4.949	4.949	0.000	7379031	1000.0	1006.2	
1	5.569	5.569	0.000	13092287	1000.0	987.0	
1	5.752	5.752	0.000	5579543	1000.0	982.4	
1	5.886	5.886	0.000	4238646	1000.0	973.1	
1	6.376	6.376	0.000	4175620	1000.0	970.0	
1	6.534	6.534	0.000	4793659	1000.0	984.2	
1	6.930	6.930	0.000	4016503	1000.0	1031.9	
		Average of Peak Amounts =				990.3	
2	3.444	3.444	0.000	5649019	1000.0	987.7	
2	3.922	3.922	0.000	11241284	1000.0	961.2	
2	4.177	4.177	0.000	7194253	1000.0	965.1	
2	4.525	4.525	0.000	24122448	1000.0	972.6	
2	4.698	4.698	0.000	9381395	1000.0	974.5	
2	4.773	4.773	0.000	6532670	1000.0	981.8	
2	5.228	5.228	0.000	10474669	1000.0	994.5	
2	5.708	5.708	0.000	5934587	1000.0	971.4	
		Average of Peak Amounts =				976.1	
						RPD = 1.45	
8 PCB-1260							M
1	7.961	7.961	0.000	3940122	1000.0	954.8	M
1	8.227	8.227	0.000	8651803	1000.0	973.9	M
1	8.612	8.612	0.000	9630141	1000.0	968.4	M
1	9.517	9.517	0.000	5567860	1000.0	1014.1	M
1	9.924	9.924	0.000	6424521	1000.0	994.7	M
1	10.221	10.221	0.000	12989554	1000.0	974.0	M
1	10.587	10.587	0.000	12315488	1000.0	996.2	M
1	11.100	11.100	0.000	3142983	1000.0	943.2	M
		Average of Peak Amounts =				977.4	
2	6.757	6.757	0.000	15046106	1000.0	975.7	
2	7.507	7.507	0.000	27184184	1000.0	993.0	
2	7.684	7.684	0.000	11870511	1000.0	977.0	
2	8.059	8.059	0.000	13352538	1000.0	980.1	
2	8.596	8.596	0.000	31759450	1000.0	949.7	
2	9.136	9.136	0.000	16955780	1000.0	966.7	
2	9.324	9.324	0.000	8889727	1000.0	951.9	
2	10.096	10.096	0.000	7676026	1000.0	991.4	
		Average of Peak Amounts =				973.2	
						RPD = 0.44	
$ 11 DCB Decachlorobiphenyl							M
1	11.558	11.558	0.000	11079967	100.0	95.4	M
2	10.570	10.570	0.000	25135451	100.0	96.4	
						RPD = 1.03	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

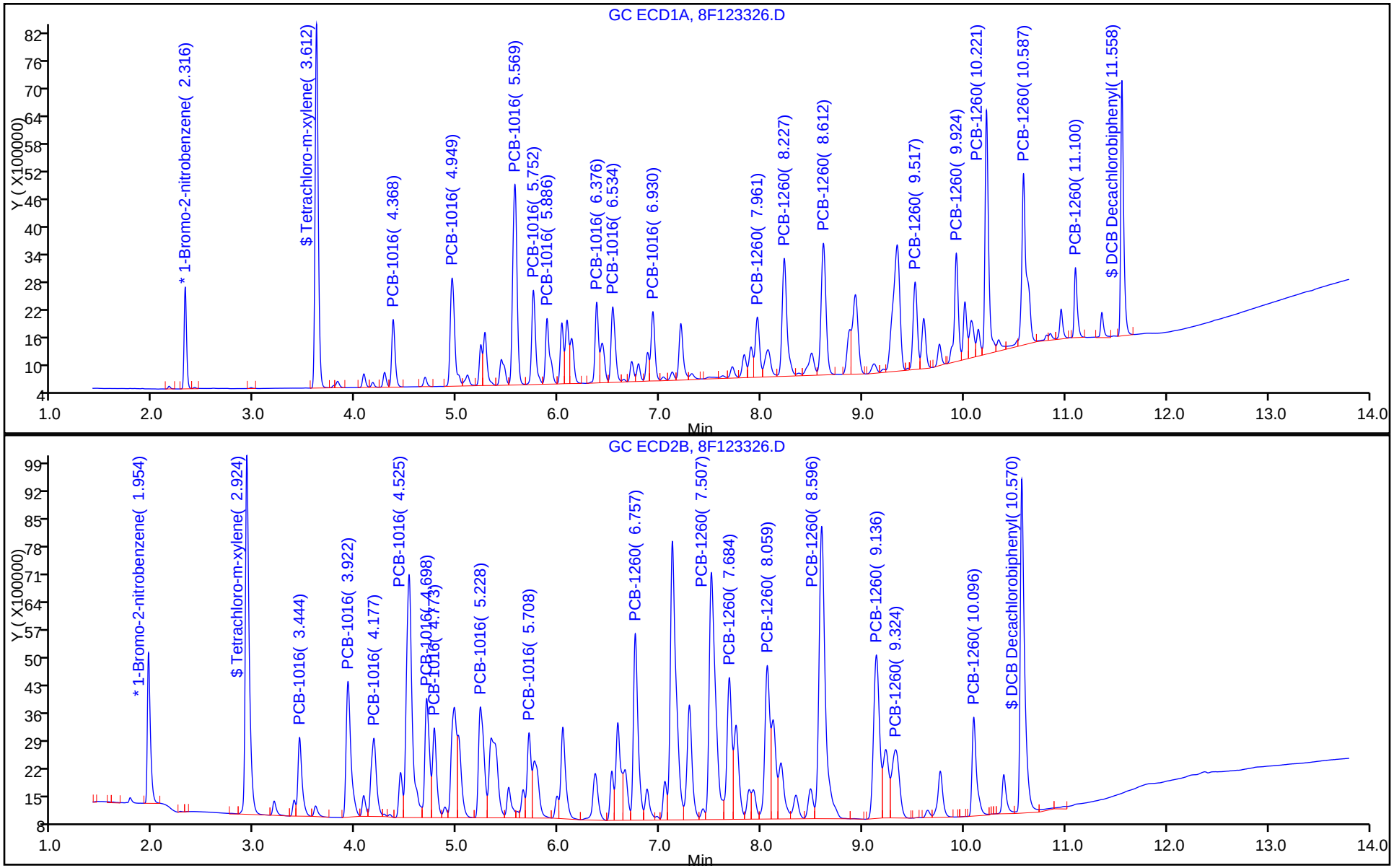
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:06 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D

Injection Date:	14-Dec-2017 12:51:59	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 14-Dec-2017 17:55:06 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D

Injection Date: 14-Dec-2017 12:51:59 Instrument ID: CPESTGC8

Lims ID: IC PCB 3

Client ID:

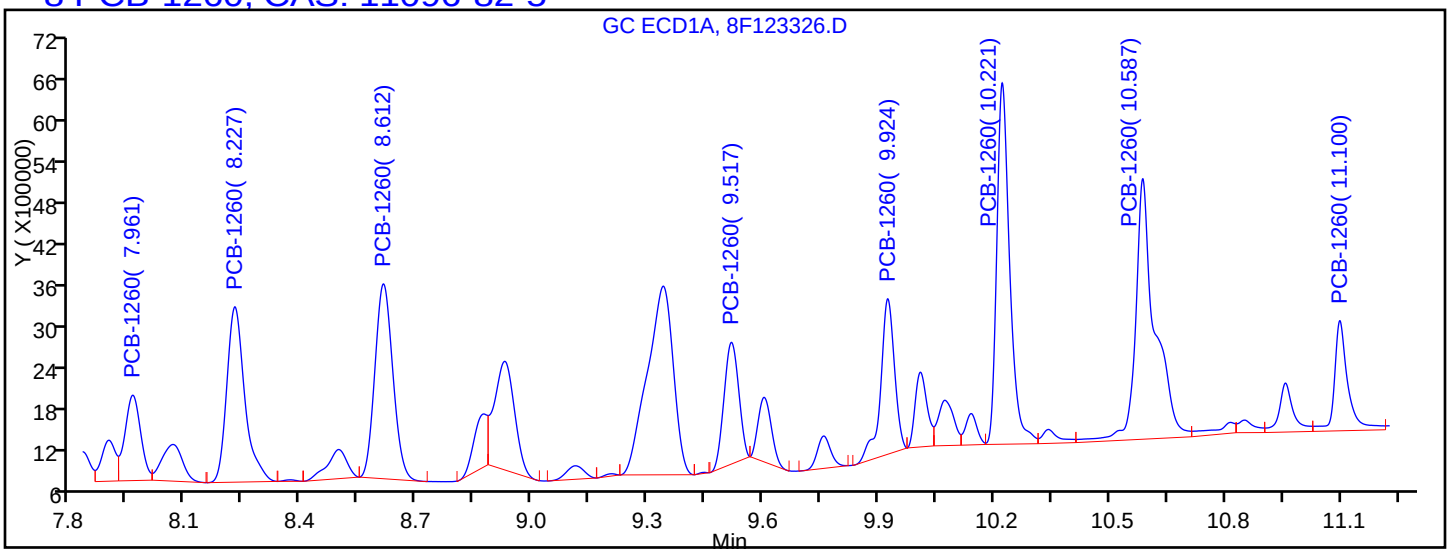
Operator ID: ALS Bottle#: 8 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

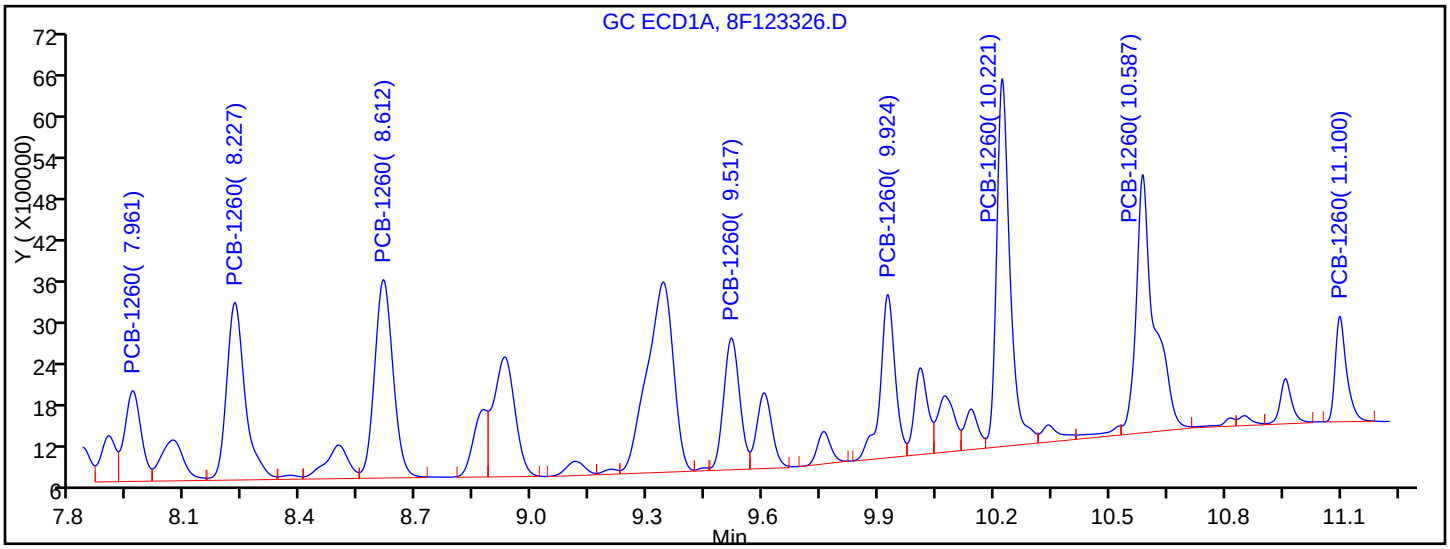
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.961	Response = 3530328
8.227	Response = 8266040
8.612	Response = 9165278
9.517	Response = 4694556
9.924	Response = 5666083
10.221	Response = 12278979
10.587	Response = 13190385
11.100	Response = 3895794



Manual Integration Results

7.961	Response = 3940122	M
8.227	Response = 8651803	M
8.612	Response = 9630141	M
9.517	Response = 5567860	M
9.924	Response = 6424521	M
10.221	Response = 12989554	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

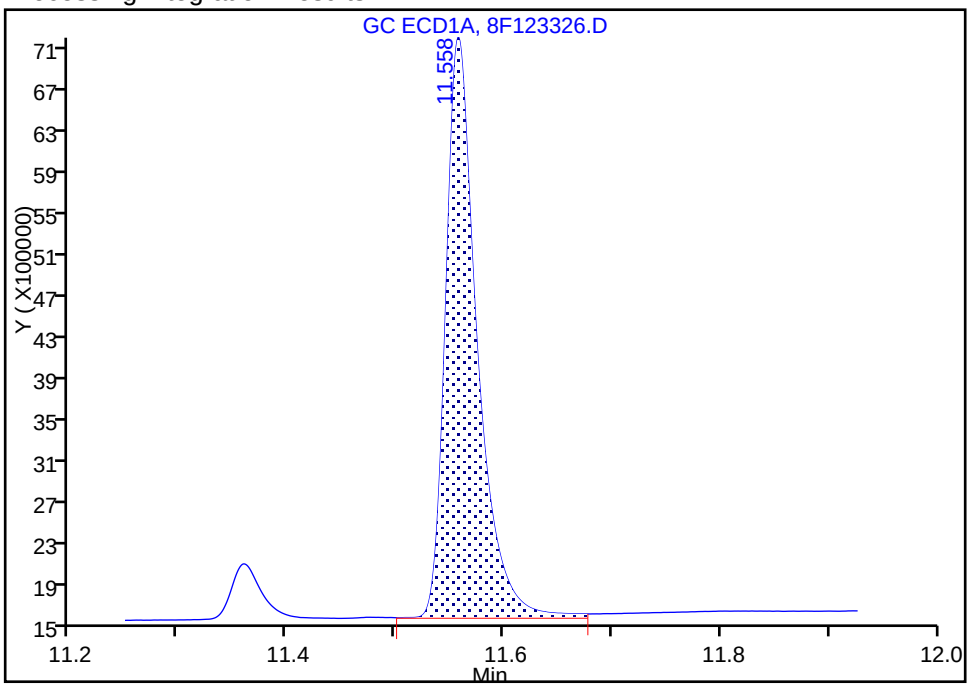
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D
Injection Date: 14-Dec-2017 12:51:59 Instrument ID: CPESTGC8
Lims ID: IC PCB 3
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD1A

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

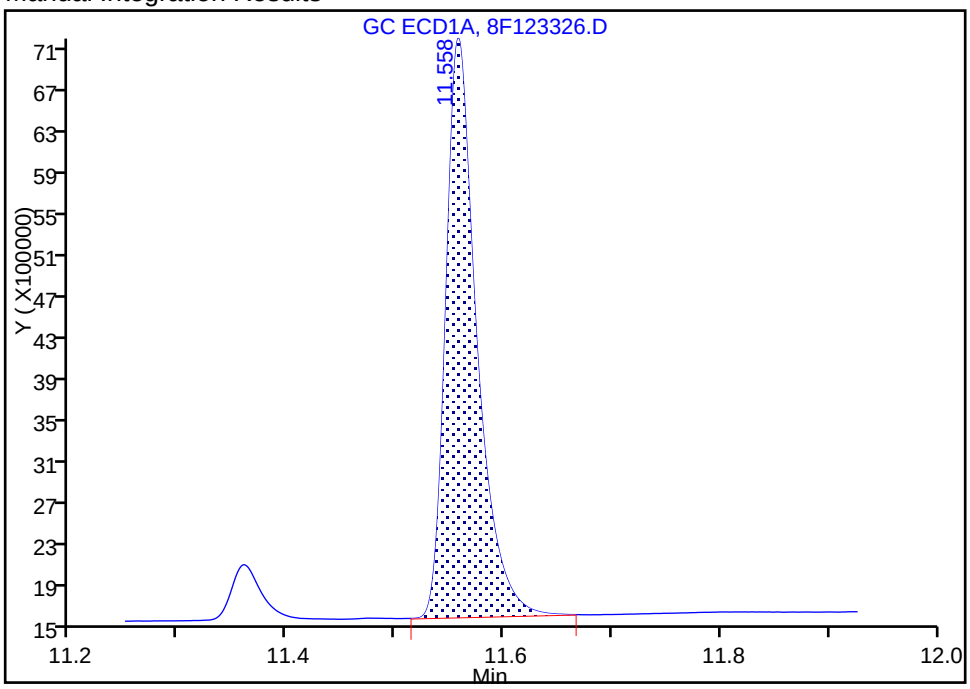
Processing Integration Results

RT: 11.56
Area: 11294334
Amount: 96.234054
Amount Units: ug/l



Manual Integration Results

RT: 11.56
Area: 11079967
Amount: 95.393748
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:31:07
Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Dec-2017 13:09:25 ALS Bottle#: 9 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-005
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:08 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 14:30:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.316	-0.001	3801983	20.0	20.0	
2	1.952	1.954	-0.002	8266415	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.611	3.612	-0.001	26442093	150.0	147.1	
2	2.922	2.924	-0.002	36833263	150.0	143.5	
						RPD = 2.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.367	4.368	-0.001	5119803	1500.0	1428.0	
1	4.949	4.949	0.000	10731859	1500.0	1443.6	
1	5.569	5.569	0.000	19188535	1500.0	1427.0	
1	5.752	5.752	0.000	8121911	1500.0	1410.7	
1	5.886	5.886	0.000	6227383	1500.0	1410.4	
1	6.376	6.376	0.000	6189181	1500.0	1418.3	
1	6.534	6.534	0.000	7107268	1500.0	1439.5	
1	6.930	6.930	0.000	5884899	1500.0	1491.5	
		Average of Peak Amounts =				1433.6	
2	3.443	3.444	-0.001	8430659	1500.0	1408.0	
2	3.922	3.922	0.000	16717741	1500.0	1365.3	
2	4.177	4.177	0.000	11080920	1500.0	1419.9	
2	4.525	4.525	0.000	35212954	1500.0	1356.1	
2	4.698	4.698	0.000	13637093	1500.0	1353.0	
2	4.773	4.773	0.000	9661627	1500.0	1387.0	
2	5.228	5.228	0.000	14797418	1500.0	1342.0	
2	5.708	5.708	0.000	8307198	1500.0	1298.8	
		Average of Peak Amounts =				1366.3	
						RPD = 4.81	
8 PCB-1260							M
1	7.961	7.961	0.000	5861605	1500.0	1401.3	M
1	8.227	8.227	0.000	12691470	1500.0	1409.3	M
1	8.612	8.612	0.000	14188075	1500.0	1407.4	M
1	9.517	9.517	0.000	8374697	1500.0	1504.6	M
1	9.923	9.924	-0.001	9402644	1500.0	1436.1	M
1	10.220	10.221	-0.001	19064976	1500.0	1410.2	M
1	10.584	10.587	-0.003	18222289	1500.0	1454.0	M
1	11.096	11.100	-0.004	4724889	1500.0	1398.8	M
		Average of Peak Amounts =				1427.7	
2	6.756	6.757	-0.001	21672143	1500.0	1342.4	
2	7.507	7.507	0.000	39521415	1500.0	1378.9	
2	7.684	7.684	0.000	17341778	1500.0	1363.4	
2	8.058	8.059	-0.001	19073377	1500.0	1337.3	
2	8.595	8.596	-0.001	48204088	1500.0	1376.8	
2	9.135	9.136	-0.001	26141798	1500.0	1423.6	
2	9.326	9.324	0.002	14267369	1500.0	1459.2	
2	10.095	10.096	-0.001	11484010	1500.0	1416.7	
		Average of Peak Amounts =				1387.3	
						RPD = 2.87	
$ 11 DCB Decachlorobiphenyl							M
1	11.552	11.558	-0.006	17107160	150.0	145.3	M
2	10.567	10.570	-0.003	37424252	150.0	137.1	
						RPD = 5.82	
S 12 Polychlorinated biphenyls, Total							
1						2861.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

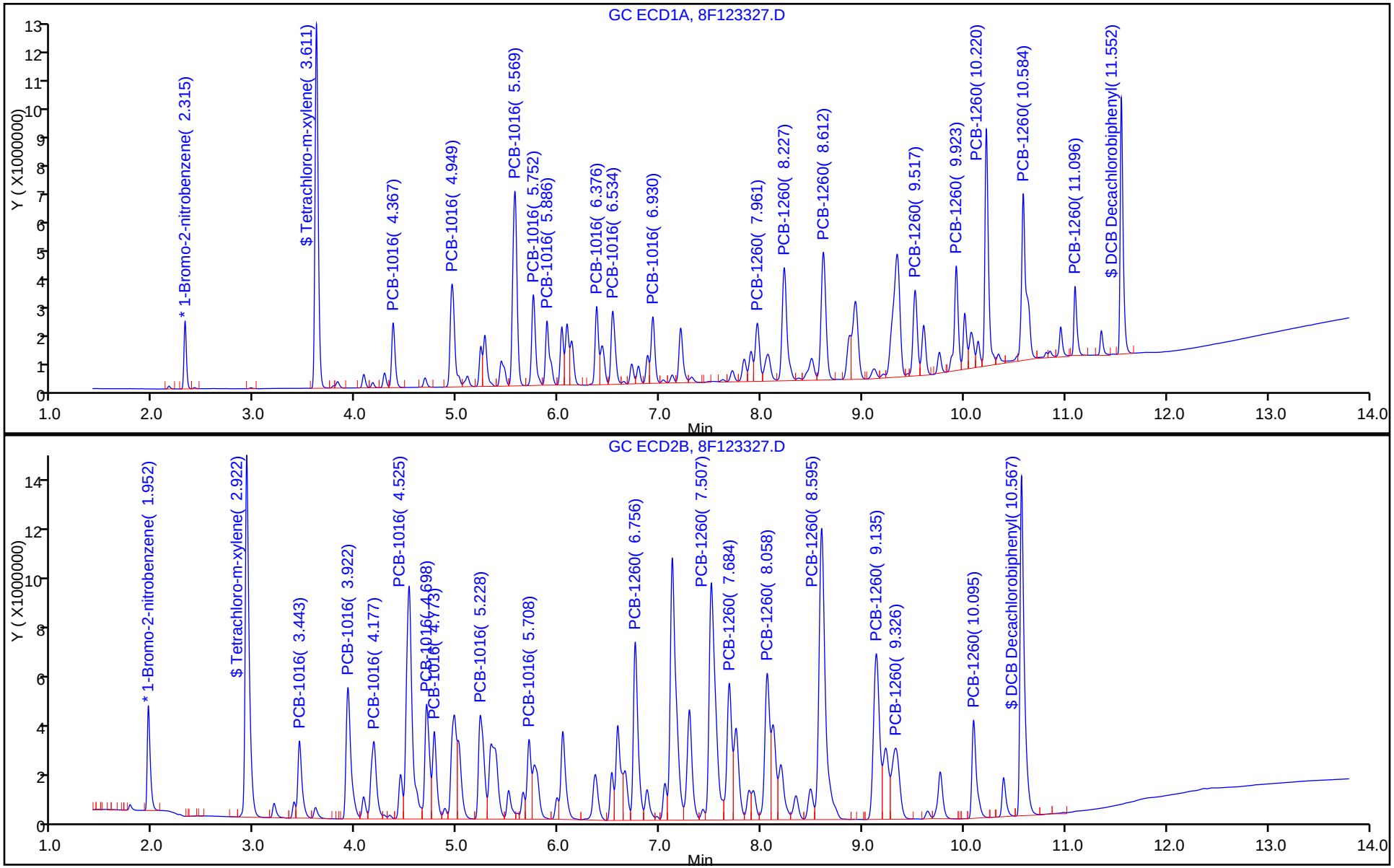
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D

Injection Date:	14-Dec-2017 13:09:25	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 14-Dec-2017 17:55:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D

Injection Date: 14-Dec-2017 13:09:25 Instrument ID: CPESTGC8

Lims ID: IC PCB 4

Client ID:

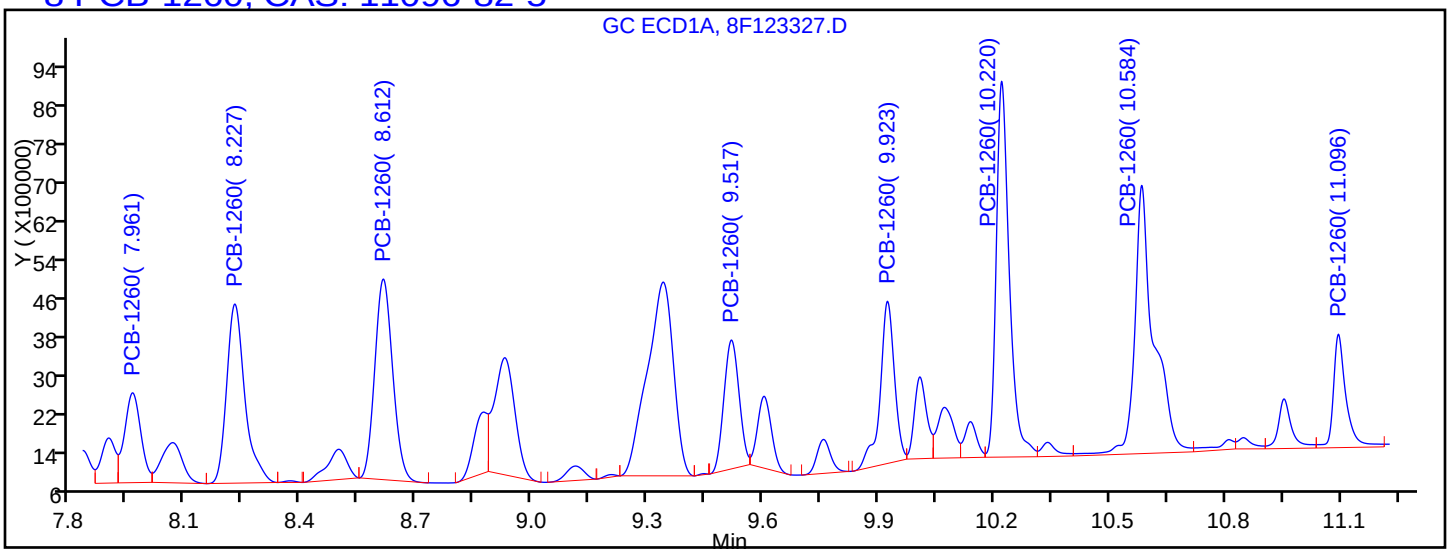
Operator ID: ALS Bottle#: 9 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

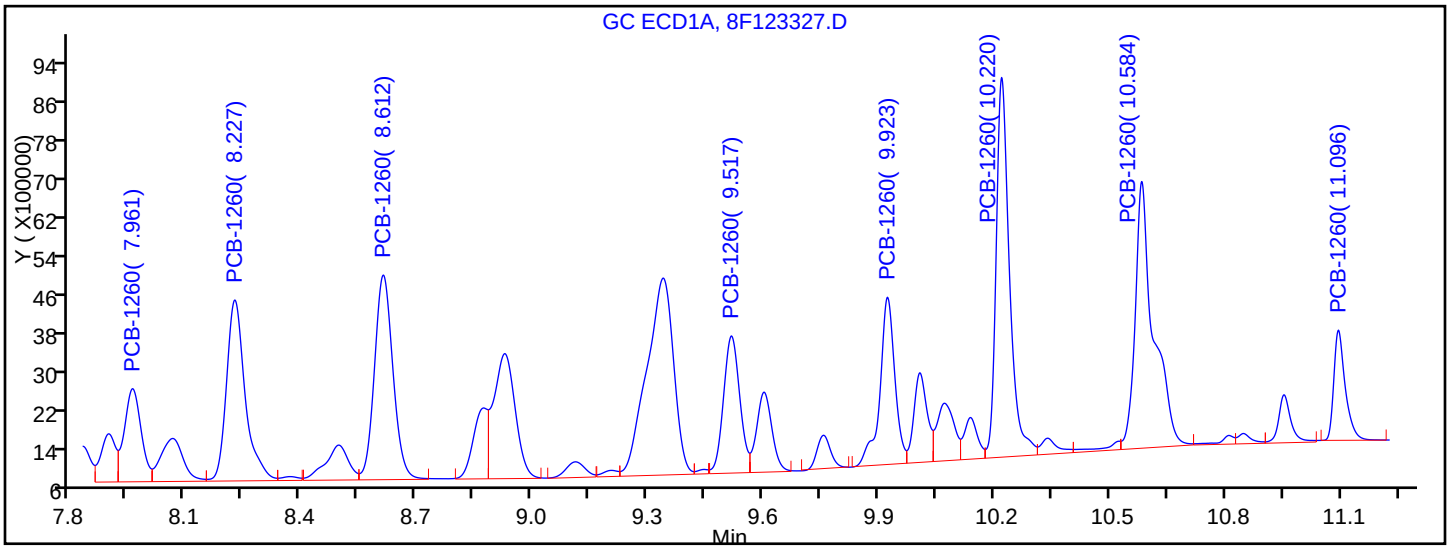
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.961	Response = 5489683
8.227	Response = 12216640
8.612	Response = 13424425
9.517	Response = 7323674
9.923	Response = 8715695
10.220	Response = 18431313
10.584	Response = 19127262
11.096	Response = 5373634



Manual Integration Results

7.961	Response = 5861605	M
8.227	Response = 12691470	M
8.612	Response = 14188075	M
9.517	Response = 8374697	M
9.923	Response = 9402644	M
10.220	Response = 19064976	M

Manual Integration/User Assign Peak Report

TestAmerica Edison

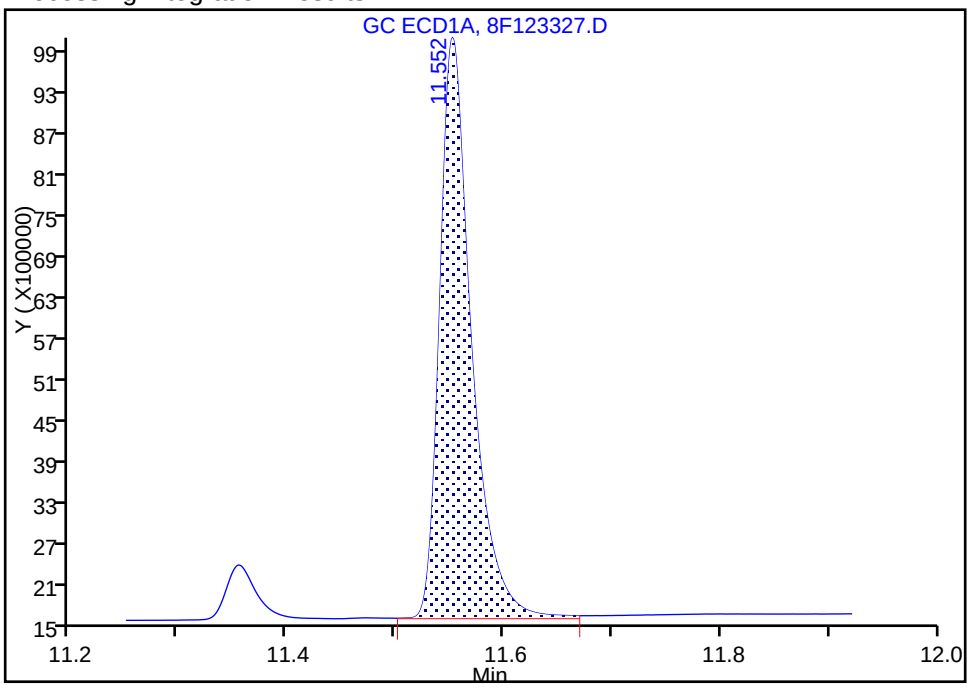
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D
Injection Date: 14-Dec-2017 13:09:25 Instrument ID: CPESTGC8
Lims ID: IC PCB 4
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD1A

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

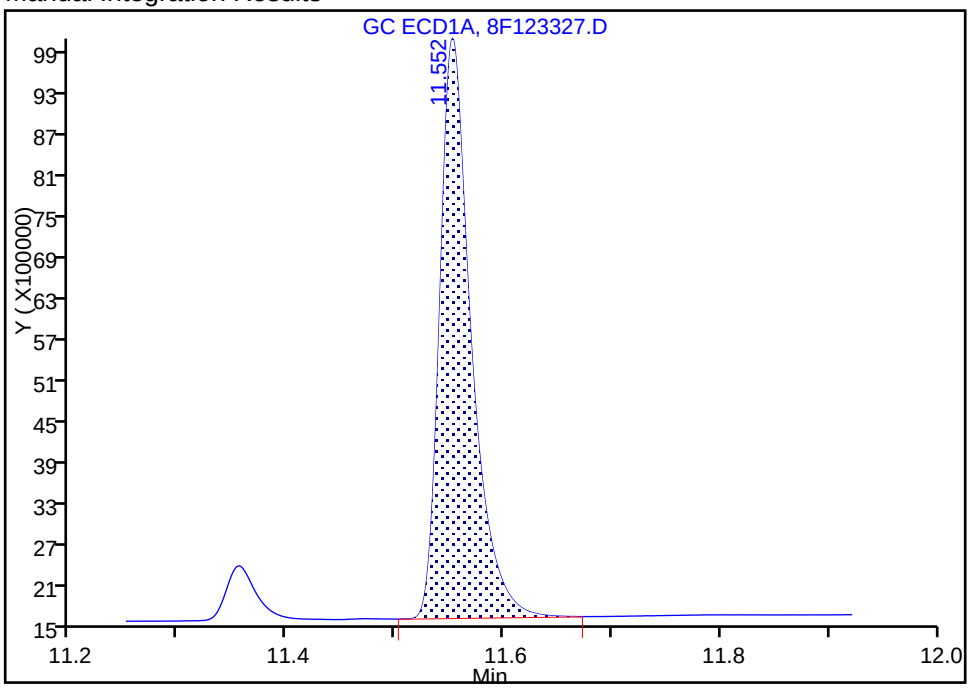
Processing Integration Results

RT: 11.55
Area: 17324418
Amount: 145.2608
Amount Units: ug/l



Manual Integration Results

RT: 11.55
Area: 17107160
Amount: 145.2905
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:30:38
Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Dec-2017 14:40:55 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-009
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:17 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 15:09:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.316	0.000	3657693	20.0	20.0	
2	1.952	1.954	-0.002	8260994	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.612	3.612	0.000	39542822	200.0	228.6	
2	2.922	2.924	-0.002	54917039	200.0	214.1	
						RPD = 6.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.370	4.368	0.002	9070255	2500.0	2629.7	
1	4.952	4.949	0.003	18913444	2500.0	2644.5	
1	5.571	5.569	0.002	34575802	2500.0	2672.7	
1	5.752	5.752	0.000	14761424	2500.0	2665.0	
1	5.887	5.886	0.001	11553337	2500.0	2719.8	
1	6.377	6.376	0.001	10973755	2500.0	2614.0	
1	6.536	6.534	0.002	12395046	2500.0	2609.5	
1	6.932	6.930	0.002	10075598	2500.0	2654.3	
		Average of Peak Amounts =				2651.2	
2	3.443	3.444	-0.001	14770080	2500.0	2468.4	
2	3.922	3.922	0.000	29137929	2500.0	2381.3	
2	4.177	4.177	0.000	19646109	2500.0	2519.1	
2	4.525	4.525	0.000	62106434	2500.0	2393.4	
2	4.697	4.698	-0.001	24030832	2500.0	2385.8	
2	4.774	4.773	0.001	17556385	2500.0	2522.0	
2	5.228	5.228	0.000	26636135	2500.0	2417.2	
2	5.708	5.708	0.000	15125211	2500.0	2366.3	
		Average of Peak Amounts =				2431.7	
						RPD = 8.64	
8 PCB-1260							M
1	7.962	7.961	0.001	9974616	2500.0	2478.6	M
1	8.228	8.227	0.001	21803055	2500.0	2516.6	M
1	8.615	8.612	0.003	24837408	2500.0	2561.0	M
1	9.520	9.517	0.003	15370742	2500.0	2870.4	M
1	9.927	9.924	0.003	17421900	2500.0	2766.0	M
1	10.223	10.221	0.002	34681581	2500.0	2666.5	M
1	10.588	10.587	0.001	33402921	2500.0	2770.5	M
1	11.101	11.100	0.001	8920117	2500.0	2744.9	M
		Average of Peak Amounts =				2671.8	
2	6.756	6.757	-0.001	39275292	2500.0	2434.3	
2	7.506	7.507	-0.001	72484933	2500.0	2530.7	
2	7.683	7.684	-0.001	31356997	2500.0	2466.9	
2	8.058	8.059	-0.001	35122552	2500.0	2464.2	
2	8.595	8.596	-0.001	86988434	2500.0	2486.1	
2	9.134	9.136	-0.002	46586333	2500.0	2538.6	
2	9.324	9.324	0.000	25758278	2500.0	2636.1	
2	10.097	10.096	0.001	20660718	2500.0	2550.4	
		Average of Peak Amounts =				2513.4	
						RPD = 6.11	
$ 11 DCB Decachlorobiphenyl							
1	11.559	11.558	0.001	25968156	200.0	229.2	
2	10.571	10.570	0.001	55132687	200.0	202.1	
						RPD = 12.61	
S 12 Polychlorinated biphenyls, Total							
1						5323.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

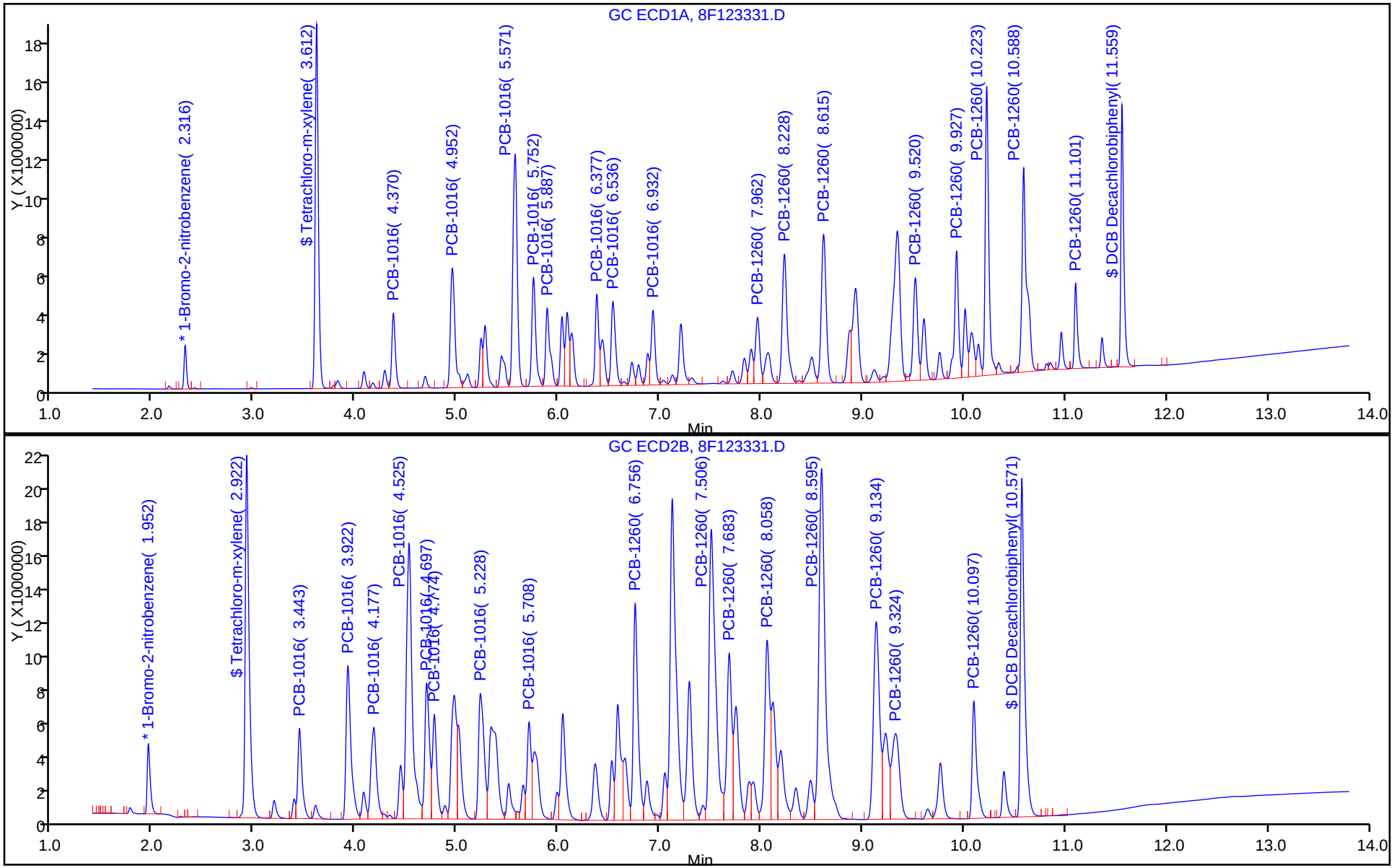
SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D

Injection Date:	14-Dec-2017 14:40:55	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 14-Dec-2017 17:55:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D

Injection Date: 14-Dec-2017 14:40:55 Instrument ID: CPESTGC8

Lims ID: IC PCB 5

Client ID:

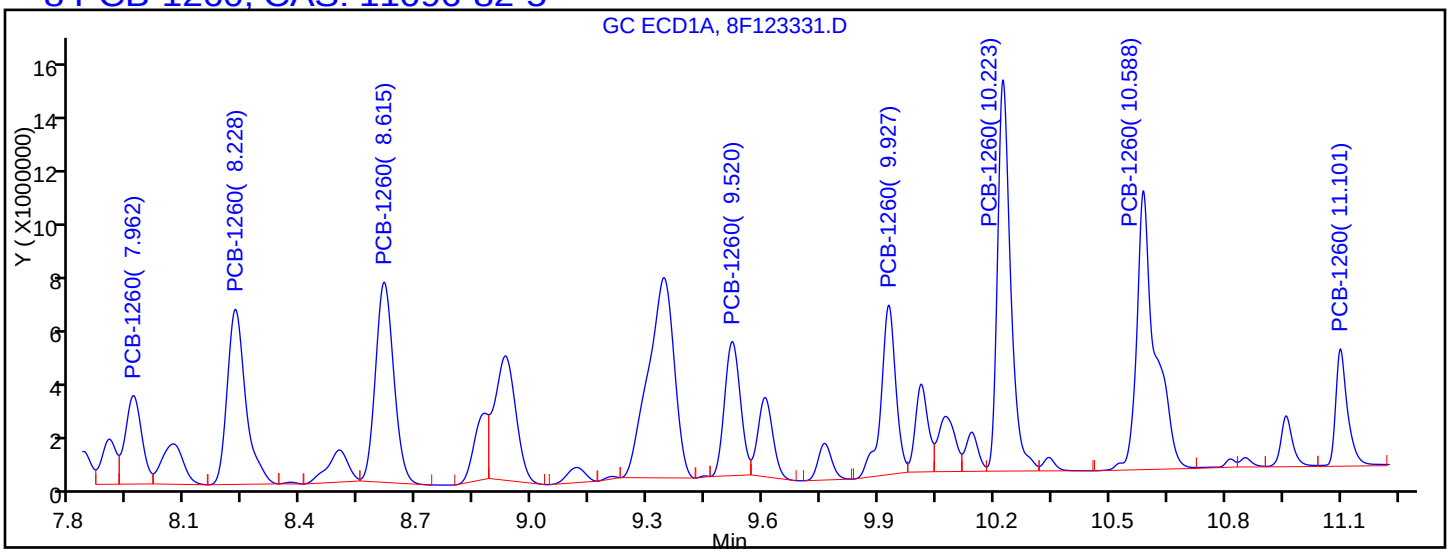
Operator ID: ALS Bottle#: 13 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

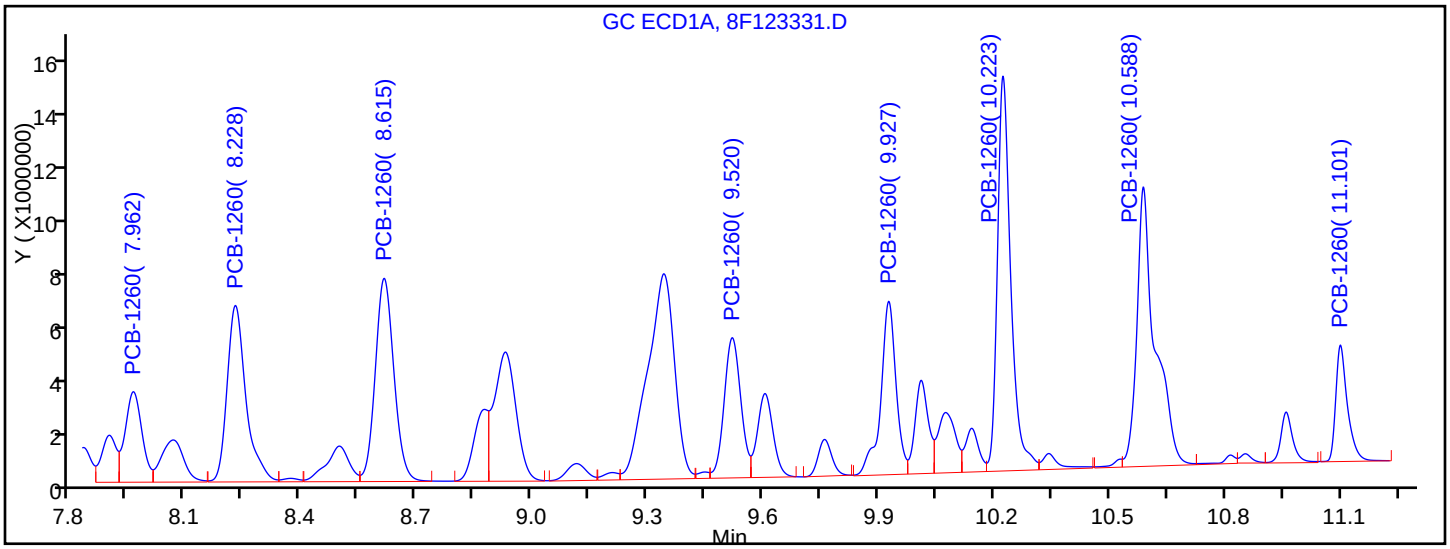
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.962	Response = 9581155
8.228	Response = 21203201
8.615	Response = 23874644
9.520	Response = 13962693
9.927	Response = 16433622
10.223	Response = 33641530
10.588	Response = 33530624
11.101	Response = 9235748



Manual Integration Results

7.962	Response = 9974616	M
8.228	Response = 21803055	M
8.615	Response = 24837408	M
9.520	Response = 15370742	M
9.927	Response = 17421900	M
10.223	Response = 34681581	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 12:17 Calibration End Date: 12/14/2017 14:40 Calibration ID: 65409

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/2	8F123324.D
Level 2	IC 460-484258/3	8F123325.D
Level 3	IC 460-484258/4	8F123326.D
Level 4	IC 460-484258/5	8F123327.D
Level 5	IC 460-484258/9	8F123331.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0152	0.0150	0.0143	0.0136	0.0143	Ave		0.0145				4.4		20.0			0.9900
PCB-1016 Peak 2	0.0331	0.0313	0.0285	0.0270	0.0282	Ave		0.0296				8.5		20.0			0.9900
PCB-1016 Peak 3	0.0193	0.0200	0.0182	0.0179	0.0190	Ave		0.0189				4.5		20.0			0.9900
PCB-1016 Peak 4	0.0704	0.0656	0.0611	0.0568	0.0601	Ave		0.0628				8.4		20.0			0.9900
PCB-1016 Peak 5	0.0274	0.0255	0.0238	0.0220	0.0233	Ave		0.0244				8.6		20.0			0.9900
PCB-1016 Peak 6	0.0179	0.0172	0.0165	0.0156	0.0170	Ave		0.0169				5.2		20.0			0.9900
PCB-1016 Peak 7	0.0289	0.0283	0.0265	0.0239	0.0258	Ave		0.0267				7.6		20.0			0.9900
PCB-1016 Peak 8	0.0180	0.0163	0.0150	0.0134	0.0146	Ave		0.0155				11.4		20.0			0.9900
PCB-1260 Peak 1	0.0436	0.0406	0.0381	0.0350	0.0380	Ave		0.0391				8.3		20.0			0.9900
PCB-1260 Peak 2	0.0717	0.0722	0.0689	0.0637	0.0702	Ave		0.0693				4.9		20.0			0.9900
PCB-1260 Peak 3	0.0318	0.0336	0.0301	0.0280	0.0304	Ave		0.0308				6.9		20.0			0.9900
PCB-1260 Peak 4	0.0378	0.0361	0.0338	0.0308	0.0340	Ave		0.0345				7.7		20.0			0.9900
PCB-1260 Peak 5	0.0939	0.0873	0.0804	0.0778	0.0842	Ave		0.0847				7.4		20.0			0.9900
PCB-1260 Peak 6	0.0454	0.0465	0.0429	0.0422	0.0451	Ave		0.0444				4.1		20.0			0.9900
PCB-1260 Peak 7	0.0237	0.0241	0.0225	0.0230	0.0249	Ave		0.0237				4.0		20.0			0.9900
PCB-1260 Peak 8	0.0196	0.0205	0.0194	0.0185	0.0200	Ave		0.0196				3.7		20.0			0.9900
Tetrachloro-m-xylene	0.6073	0.6323	0.6072	0.5941	0.6648	Ave		0.6211				4.5		20.0			0.9900
DCB Decachlorobiphenyl	0.7110	0.6842	0.6367	0.6036	0.6674	Ave		0.6606				6.3		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 12:17 Calibration End Date: 12/14/2017 14:40 Calibration ID: 65409

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/2	8F123324.D
Level 2	IC 460-484258/3	8F123325.D
Level 3	IC 460-484258/4	8F123326.D
Level 4	IC 460-484258/5	8F123327.D
Level 5	IC 460-484258/9	8F123331.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	312349	2922477	5649019	8430659	14770080	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	680788	6096514	11241284	16717741	29137929	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	396202	3892153	7194253	11080920	19646109	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	1446736	12776130	24122448	35212954	62106434	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	562268	4967374	9381395	13637093	24030832	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	368664	3345166	6532670	9661627	17556385	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	593412	5509805	10474669	14797418	26636135	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	370444	3165065	5934587	8307198	15125211	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	894766	7909753	15046106	21672143	39275292	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	1473051	14054347	27184184	39521415	72484933	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	653765	6546970	11870511	17341778	31356997	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	776710	7031013	13352538	19073377	35122552	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	1927899	16982823	31759450	48204088	86988434	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	933068	9048264	16955780	26141798	46586333	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	486233	4697683	8889727	14267369	25758278	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	403379	3980652	7676026	11484010	20660718	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	3118646	12306523	23971383	36833263	54917039	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	3651080	13317018	25135451	37424252	55132687	12.5	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D
Lims ID: IC PCB 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Dec-2017 12:17:10 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-002
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:54:55 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:21:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.409	-0.094	3959269	20.0	20.0	
2	1.954	1.953	0.001	8215995	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.610	3.611	-0.001	2147533	12.5	11.5	
2	2.922	2.923	-0.001	3118646	12.5	12.2	
						RPD = 6.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.367	4.368	-0.001	182069	50.0	48.8	
1	4.949	4.950	-0.001	356311	50.0	46.0	M
1	5.566	5.569	-0.003	678681	50.0	48.5	M
1	5.750	5.751	-0.001	298202	50.0	49.7	M
1	5.884	5.885	-0.001	235236	50.0	51.2	M
1	6.374	6.375	-0.001	236063	50.0	51.9	M
1	6.534	6.535	-0.001	260168	50.0	50.6	
1	6.927	6.929	-0.002	179306	50.0	43.6	M
		Average of Peak Amounts =				48.8	
2	3.443	3.443	0.000	312349	50.0	52.5	
2	3.922	3.921	0.001	680788	50.0	55.9	M
2	4.175	4.176	-0.001	396202	50.0	51.1	M
2	4.523	4.525	-0.002	1446736	50.0	56.1	M
2	4.696	4.698	-0.002	562268	50.0	56.1	M
2	4.773	4.774	-0.001	368664	50.0	53.2	M
2	5.225	5.228	-0.003	593412	50.0	54.1	M
2	5.707	5.709	-0.002	370444	50.0	58.3	M
		Average of Peak Amounts =				54.7	
						RPD = 11.36	
8 PCB-1260							M
1	7.957	7.960	-0.003	246667	50.0	56.6	M
1	8.224	8.225	-0.001	488142	50.0	52.1	M
1	8.610	8.611	-0.001	540381	50.0	51.5	M
1	9.517	9.517	0.000	237389	50.0	41.0	
1	9.925	9.925	0.000	307310	50.0	45.1	M
1	10.221	10.223	-0.002	697134	50.0	49.5	M
1	10.586	10.589	-0.003	584660	50.0	44.8	M
1	11.098	11.105	-0.007	190604	50.0	54.2	M
		Average of Peak Amounts =				49.3	
2	6.755	6.755	0.000	894766	50.0	55.8	
2	7.505	7.506	-0.001	1473051	50.0	51.7	M
2	7.681	7.683	-0.002	653765	50.0	51.7	M
2	8.055	8.057	-0.002	776710	50.0	54.8	M
2	8.592	8.594	-0.002	1927899	50.0	55.4	M
2	9.132	9.133	-0.001	933068	50.0	51.1	M
2	9.329	9.323	0.006	486233	50.0	50.0	M
2	10.094	10.097	-0.003	403379	50.0	50.1	M
		Average of Peak Amounts =				52.6	
						RPD = 6.36	
$ 11 DCB Decachlorobiphenyl							
1	11.556	11.567	-0.011	1479792	12.5	12.1	
2	10.569	10.575	-0.006	3651080	12.5	13.5	
						RPD = 10.86	
S 12 Polychlorinated biphenyls, Total							
1						98.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

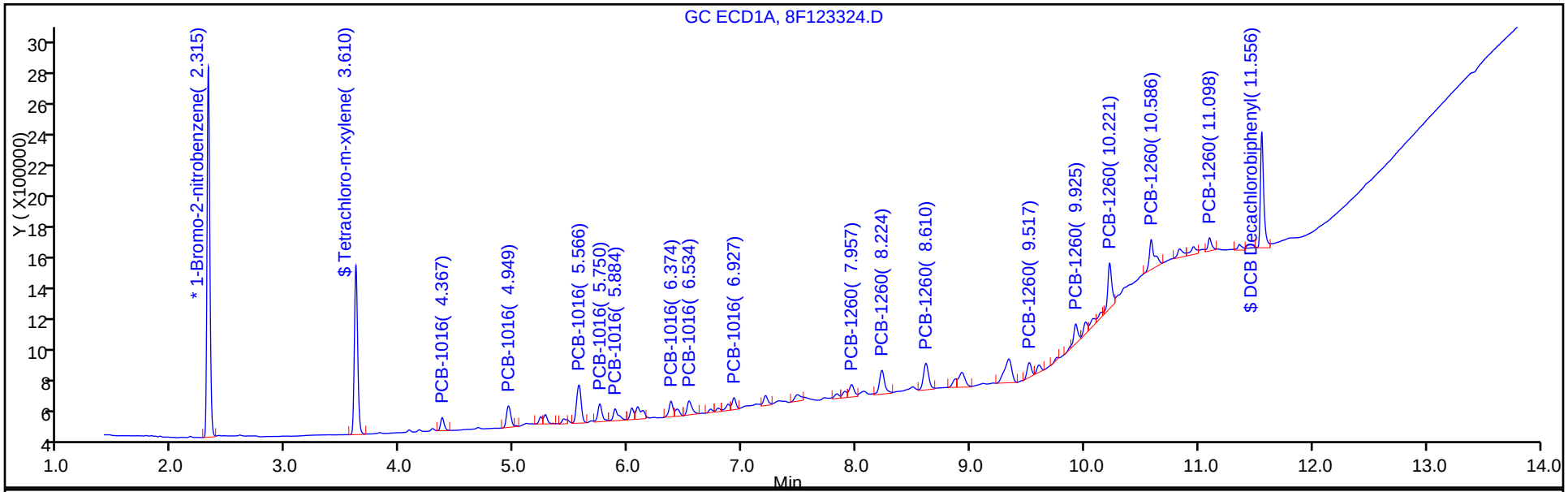
SG1660(LVI)L1_00012	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

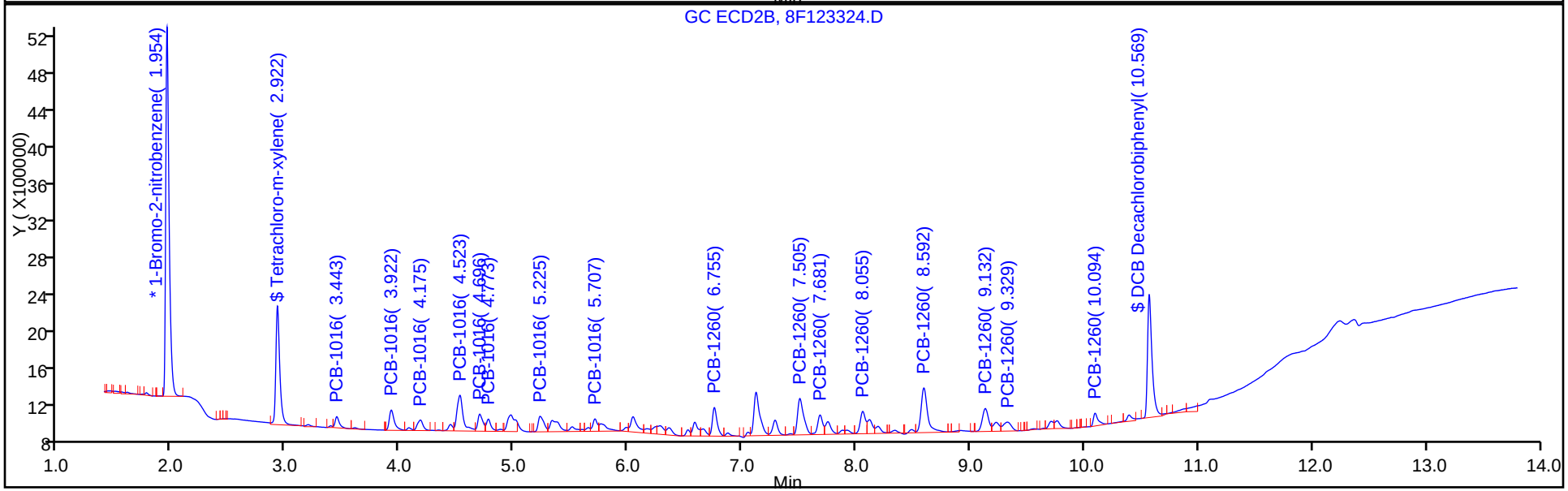
Report Date: 14-Dec-2017 17:54:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

Injection Date:	14-Dec-2017 12:17:10	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 14-Dec-2017 17:54:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

Injection Date: 14-Dec-2017 12:17:10 Instrument ID: CPESTGC8

Lims ID: IC PCB 1

Client ID:

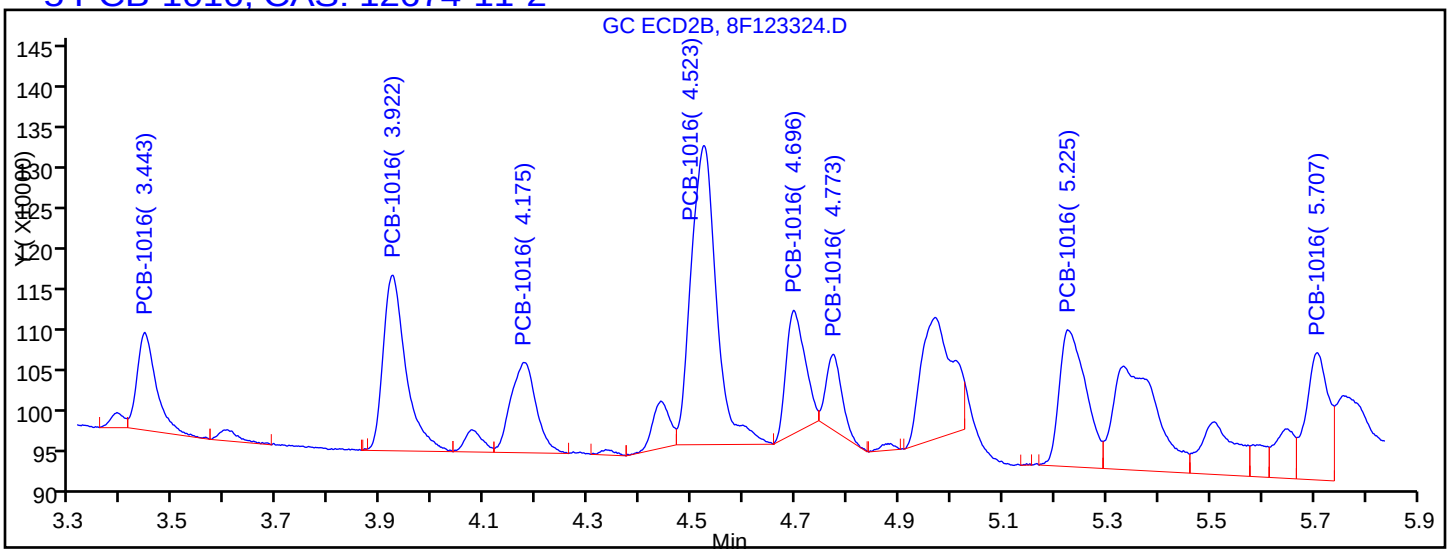
Operator ID: ALS Bottle#: 6 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

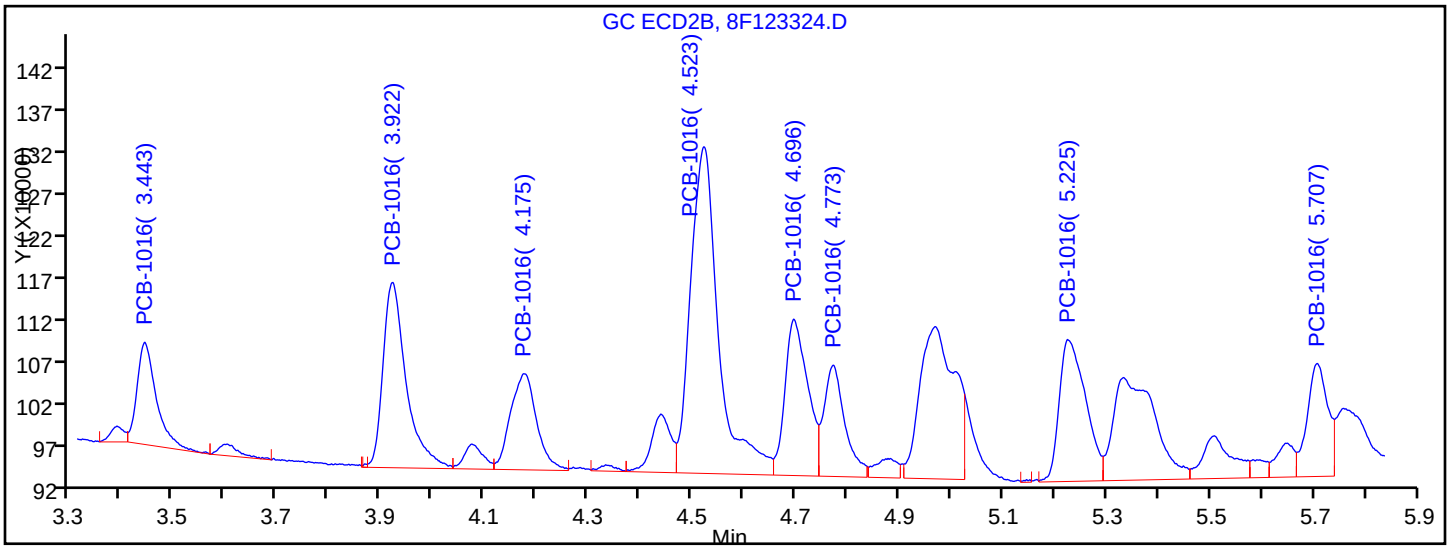
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.443	Response = 312349
3.922	Response = 660357
4.175	Response = 379270
4.523	Response = 1256887
4.696	Response = 385379
4.773	Response = 199362
5.225	Response = 605638
5.707	Response = 474044



Manual Integration Results

3.443	Response = 312349	
3.922	Response = 680788	M
4.175	Response = 396202	M
4.523	Response = 1446736	M
4.696	Response = 562268	M
4.773	Response = 368664	M

Report Date: 14-Dec-2017 17:54:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123324.D

Injection Date: 14-Dec-2017 12:17:10 Instrument ID: CPESTGC8

Lims ID: IC PCB 1

Client ID:

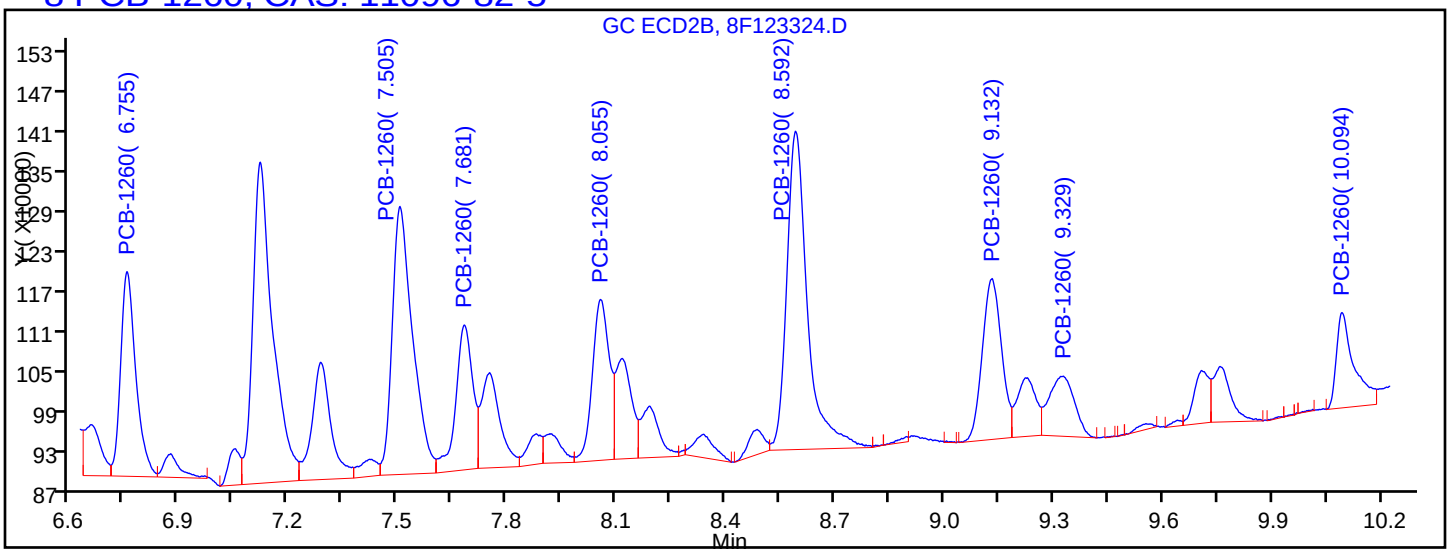
Operator ID: ALS Bottle#: 6 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

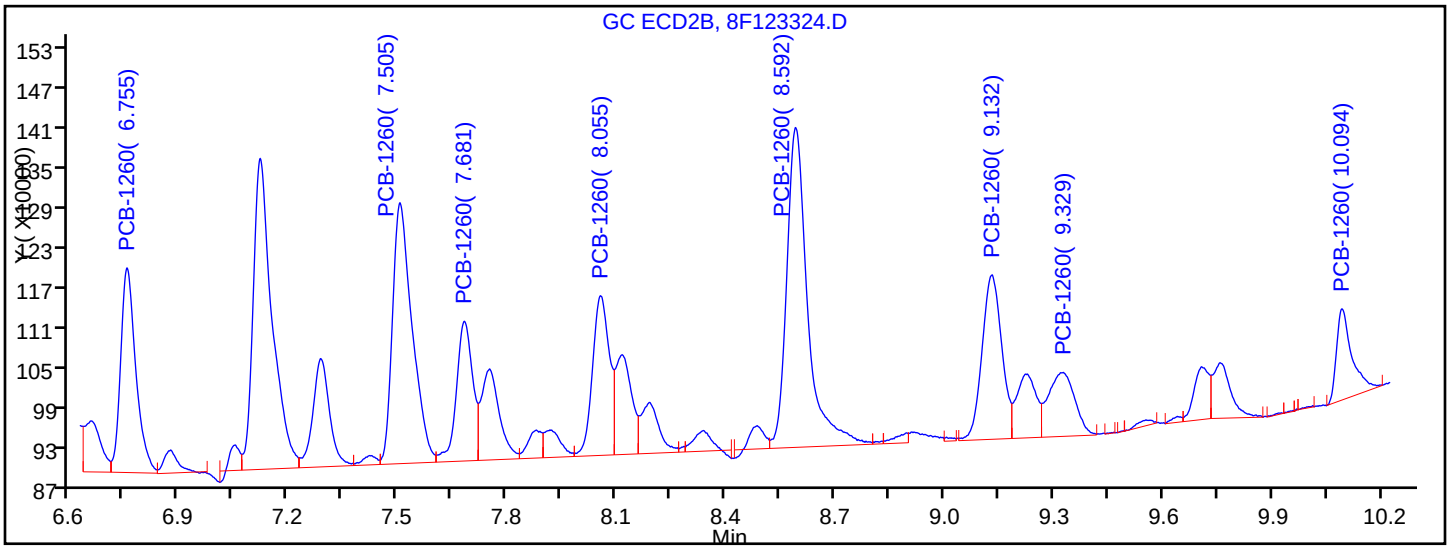
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.755	Response = 894766
7.505	Response = 1570686
7.681	Response = 712423
8.055	Response = 790649
8.592	Response = 1897324
9.132	Response = 890622
9.329	Response = 441037
10.094	Response = 483189



Manual Integration Results

6.755	Response = 894766	
7.505	Response = 1473051	M
7.681	Response = 653765	M
8.055	Response = 776710	M
8.592	Response = 1927899	M
9.132	Response = 933068	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D
Lims ID: IC PCB 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Dec-2017 12:34:33 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-003
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:54:59 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:21:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.409	-0.093	3718368	20.0	20.0	
2	1.954	1.953	0.001	7785646	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.611	3.611	0.000	8672196	50.0	49.3	
2	2.924	2.923	0.001	12306523	50.0	50.9	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.367	4.368	-0.001	1810974	500.0	516.5	
1	4.949	4.950	-0.001	3828569	500.0	526.6	
1	5.568	5.569	-0.001	6729334	500.0	511.7	
1	5.751	5.751	0.000	2861763	500.0	508.2	
1	5.885	5.885	0.000	2106194	500.0	487.7	
1	6.376	6.375	0.001	2133461	500.0	499.9	
1	6.534	6.535	-0.001	2415058	500.0	500.1	M
1	6.929	6.929	0.000	2005381	500.0	519.7	
		Average of Peak Amounts =				508.8	
2	3.444	3.443	0.001	2922477	500.0	518.2	
2	3.922	3.921	0.001	6096514	500.0	528.6	M
2	4.177	4.176	0.001	3892153	500.0	529.5	M
2	4.525	4.525	0.000	12776130	500.0	522.4	M
2	4.698	4.698	0.000	4967374	500.0	523.3	M
2	4.774	4.774	0.000	3345166	500.0	509.9	M
2	5.228	5.228	0.000	5509805	500.0	530.5	M
2	5.708	5.709	-0.001	3165065	500.0	525.4	M
		Average of Peak Amounts =				523.5	
						RPD = 2.85	
8 PCB-1260							M
1	7.960	7.960	0.000	2019037	500.0	493.5	M
1	8.225	8.225	0.000	4575084	500.0	519.5	M
1	8.612	8.611	0.001	5124035	500.0	519.7	M
1	9.517	9.517	0.000	2764330	500.0	507.8	M
1	9.923	9.925	-0.002	3329554	500.0	520.0	M
1	10.220	10.223	-0.003	6802068	500.0	514.5	M
1	10.585	10.589	-0.004	6313627	500.0	515.1	M
1	11.097	11.105	-0.008	1556904	500.0	471.3	M
		Average of Peak Amounts =				507.7	
2	6.756	6.755	0.001	7909753	500.0	520.2	M
2	7.507	7.506	0.001	14054347	500.0	520.6	M
2	7.684	7.683	0.001	6546970	500.0	546.5	M
2	8.058	8.057	0.001	7031013	500.0	523.4	M
2	8.595	8.594	0.001	16982823	500.0	515.0	M
2	9.135	9.133	0.002	9048264	500.0	523.2	
2	9.325	9.323	0.002	4697683	500.0	510.1	
2	10.095	10.097	-0.002	3980652	500.0	521.4	
		Average of Peak Amounts =				522.5	
						RPD = 2.89	
$ 11 DCB Decachlorobiphenyl							M
1	11.555	11.567	-0.012	5560497	50.0	48.3	M
2	10.569	10.575	-0.006	13317018	50.0	51.8	
						RPD = 6.99	
S 12 Polychlorinated biphenyls, Total							
1						1016.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

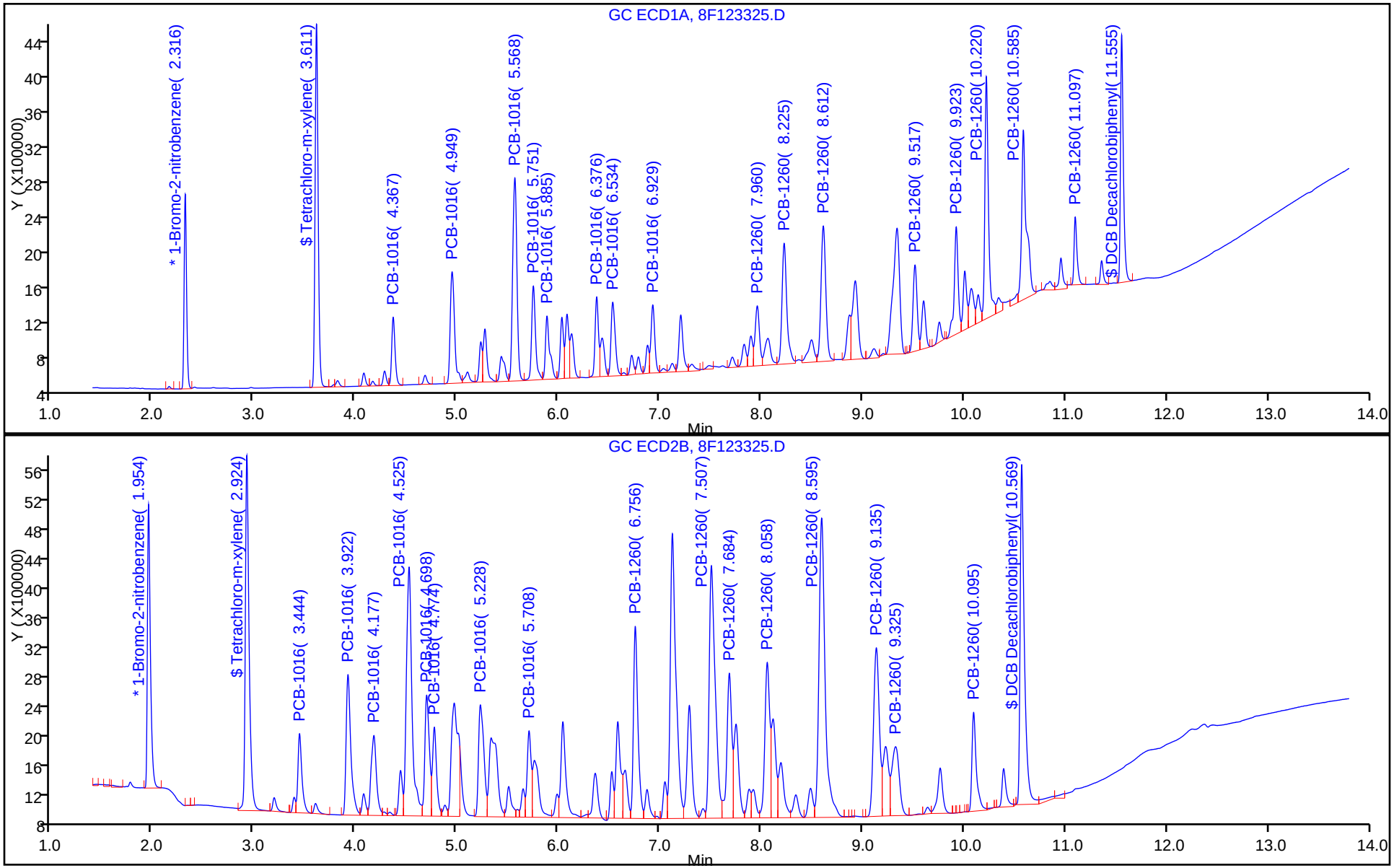
SG1660L2_00025	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:02 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date:	14-Dec-2017 12:34:33	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

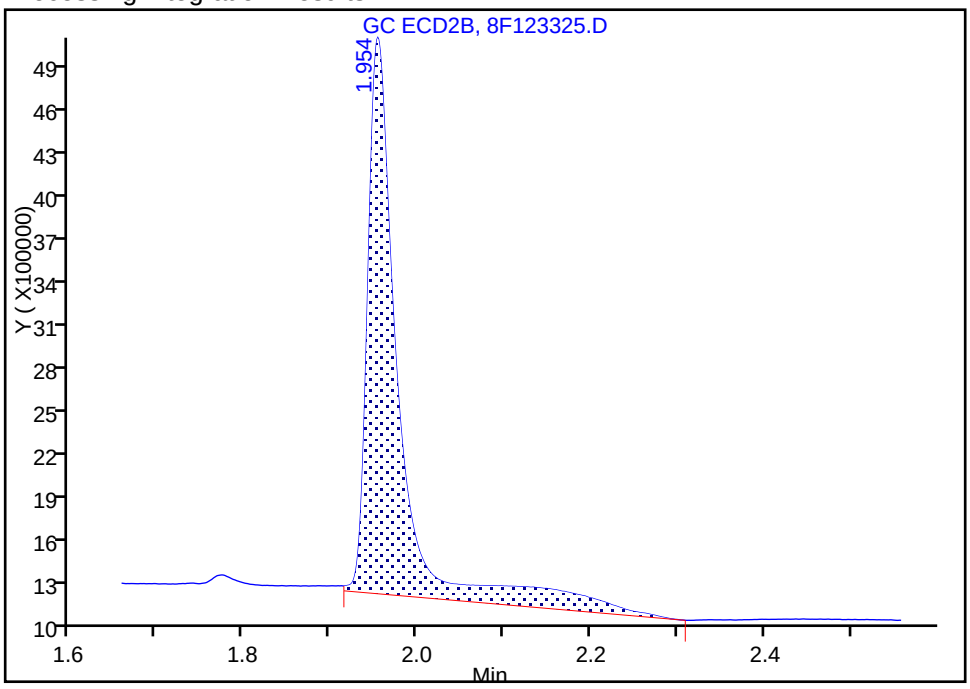
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D				
Injection Date:	14-Dec-2017 12:34:33	Instrument ID:	CPESTGC8		
Lims ID:	IC PCB 2				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

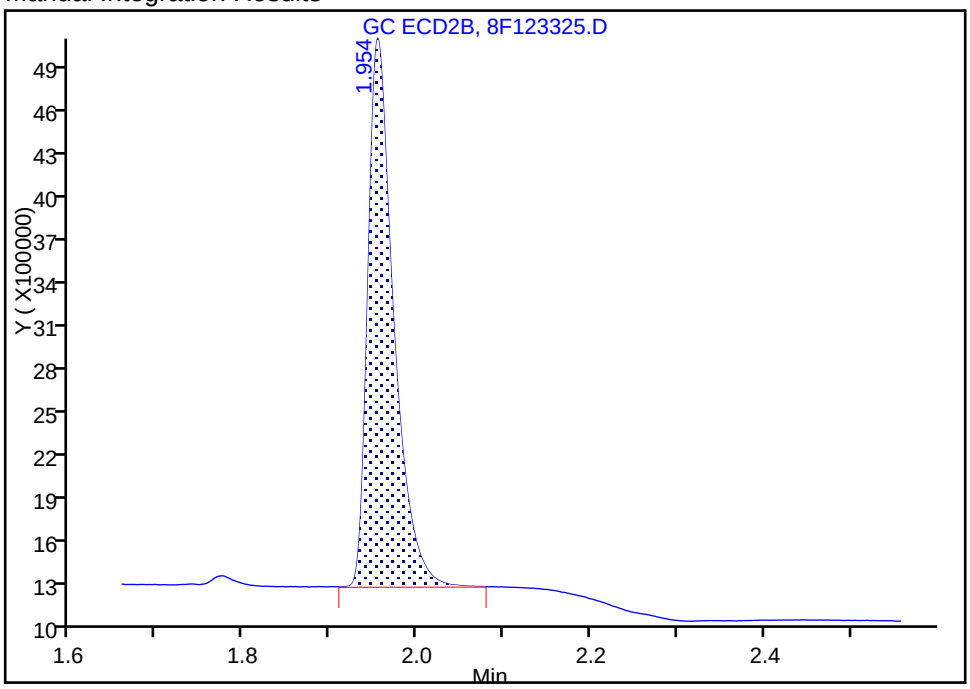
Processing Integration Results

RT: 1.95
Area: 9655172
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 7785646
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:31:55

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 14-Dec-2017 17:55:02 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date: 14-Dec-2017 12:34:33 Instrument ID: CPESTGC8

Lims ID: IC PCB 2

Client ID:

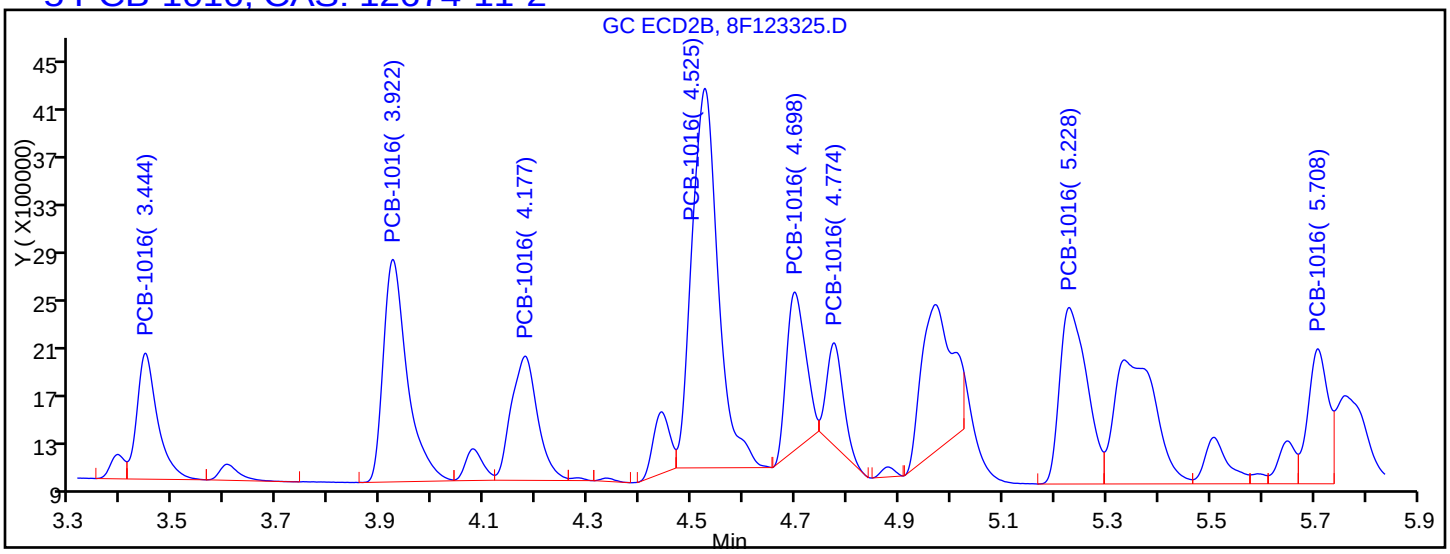
Operator ID: ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

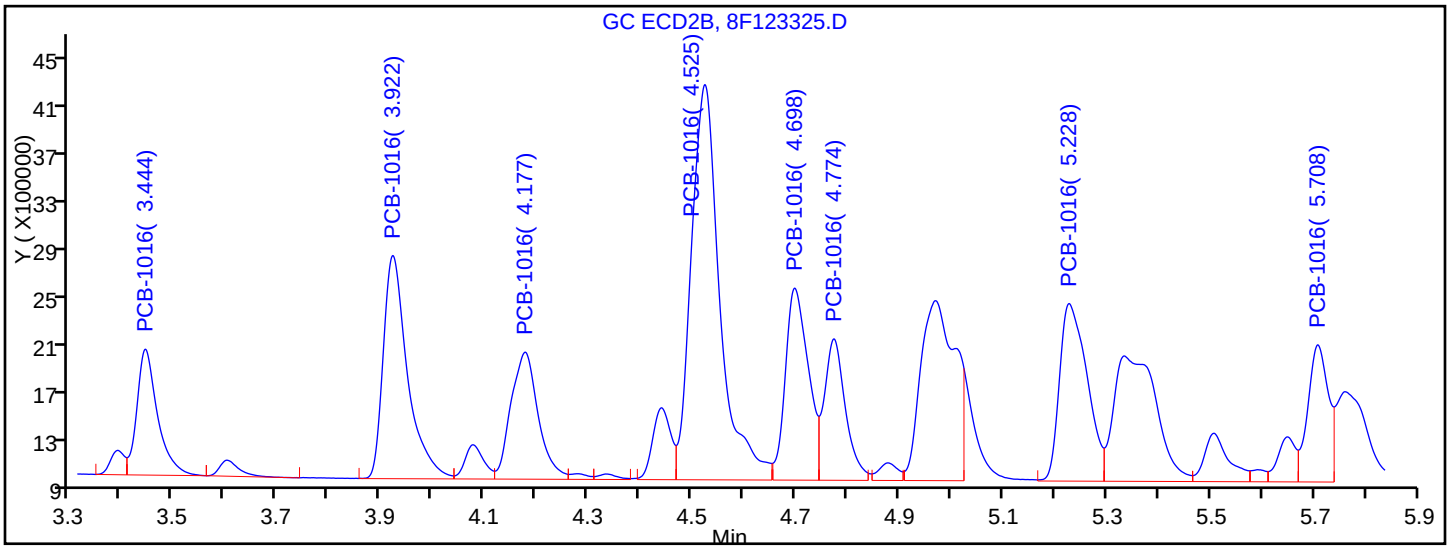
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.444	Response = 2922477
3.922	Response = 5988180
4.177	Response = 3683785
4.525	Response = 11271492
4.698	Response = 3403738
4.774	Response = 1919864
5.228	Response = 5432289
5.708	Response = 3085001



Manual Integration Results

3.444	Response = 2922477	
3.922	Response = 6096514	M
4.177	Response = 3892153	M
4.525	Response = 12776130	M
4.698	Response = 4967374	M
4.774	Response = 3345166	M

Report Date: 14-Dec-2017 17:55:02 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123325.D

Injection Date: 14-Dec-2017 12:34:33 Instrument ID: CPESTGC8

Lims ID: IC PCB 2

Client ID:

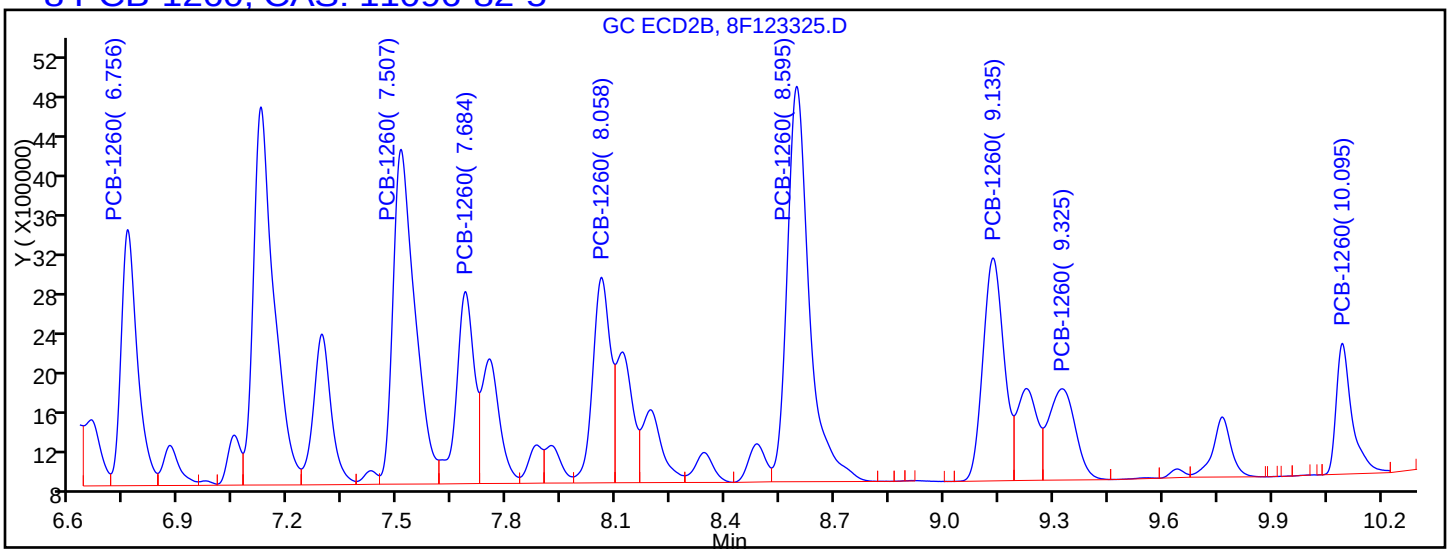
Operator ID: ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

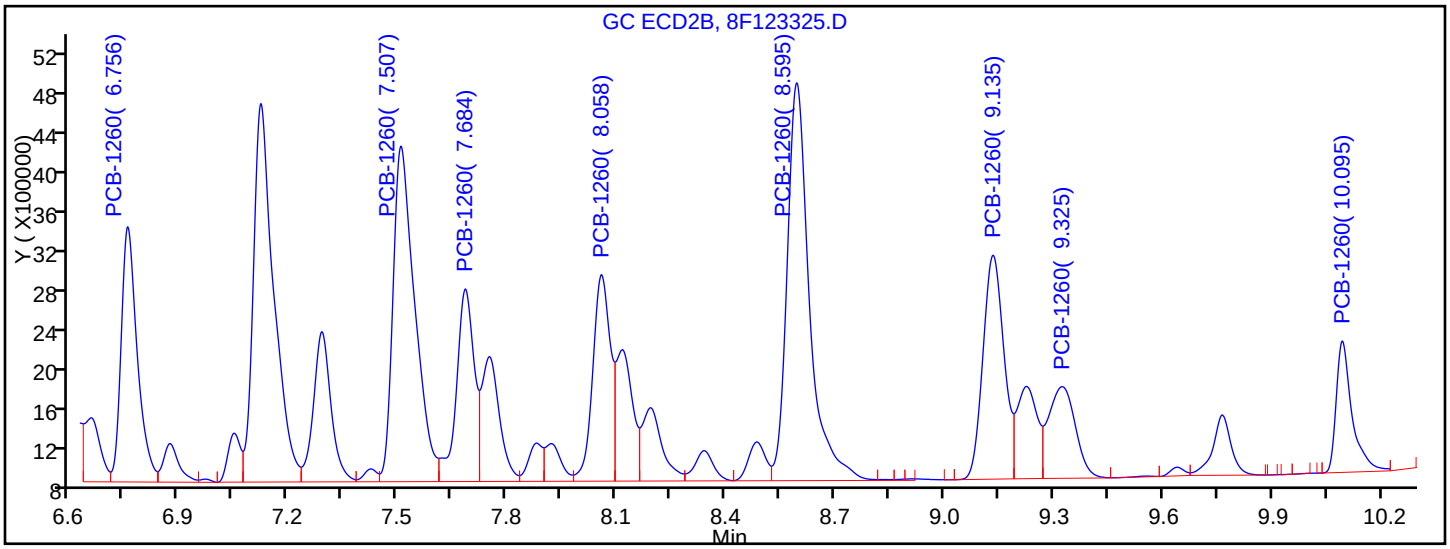
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.756	Response = 8062367
7.507	Response = 14122712
7.684	Response = 6579562
8.058	Response = 7028680
8.595	Response = 16863674
9.135	Response = 9048264
9.325	Response = 4697683
10.095	Response = 3980652



Manual Integration Results

6.756	Response = 7909753	M
7.507	Response = 14054347	M
7.684	Response = 6546970	M
8.058	Response = 7031013	M
8.595	Response = 16982823	M
9.135	Response = 9048264	

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D
Lims ID: IC PCB 3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 14-Dec-2017 12:51:59 ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-004
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:04 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 13:19:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.316	0.000	3750490	20.0	20.0	
2	1.954	1.954	0.000	7895834	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.612	3.612	0.000	17242003	100.0	97.2	
2	2.924	2.924	0.000	23971383	100.0	97.8	
						RPD = 0.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.368	4.368	0.000	3493644	1000.0	987.8	
1	4.949	4.949	0.000	7379031	1000.0	1006.2	
1	5.569	5.569	0.000	13092287	1000.0	987.0	
1	5.752	5.752	0.000	5579543	1000.0	982.4	
1	5.886	5.886	0.000	4238646	1000.0	973.1	
1	6.376	6.376	0.000	4175620	1000.0	970.0	
1	6.534	6.534	0.000	4793659	1000.0	984.2	
1	6.930	6.930	0.000	4016503	1000.0	1031.9	
		Average of Peak Amounts =				990.3	
2	3.444	3.444	0.000	5649019	1000.0	987.7	
2	3.922	3.922	0.000	11241284	1000.0	961.2	
2	4.177	4.177	0.000	7194253	1000.0	965.1	
2	4.525	4.525	0.000	24122448	1000.0	972.6	
2	4.698	4.698	0.000	9381395	1000.0	974.5	
2	4.773	4.773	0.000	6532670	1000.0	981.8	
2	5.228	5.228	0.000	10474669	1000.0	994.5	
2	5.708	5.708	0.000	5934587	1000.0	971.4	
		Average of Peak Amounts =				976.1	
						RPD = 1.45	
8 PCB-1260							M
1	7.961	7.961	0.000	3940122	1000.0	954.8	M
1	8.227	8.227	0.000	8651803	1000.0	973.9	M
1	8.612	8.612	0.000	9630141	1000.0	968.4	M
1	9.517	9.517	0.000	5567860	1000.0	1014.1	M
1	9.924	9.924	0.000	6424521	1000.0	994.7	M
1	10.221	10.221	0.000	12989554	1000.0	974.0	M
1	10.587	10.587	0.000	12315488	1000.0	996.2	M
1	11.100	11.100	0.000	3142983	1000.0	943.2	M
		Average of Peak Amounts =				977.4	
2	6.757	6.757	0.000	15046106	1000.0	975.7	
2	7.507	7.507	0.000	27184184	1000.0	993.0	
2	7.684	7.684	0.000	11870511	1000.0	977.0	
2	8.059	8.059	0.000	13352538	1000.0	980.1	
2	8.596	8.596	0.000	31759450	1000.0	949.7	
2	9.136	9.136	0.000	16955780	1000.0	966.7	
2	9.324	9.324	0.000	8889727	1000.0	951.9	
2	10.096	10.096	0.000	7676026	1000.0	991.4	
		Average of Peak Amounts =				973.2	
						RPD = 0.44	
$ 11 DCB Decachlorobiphenyl							M
1	11.558	11.558	0.000	11079967	100.0	95.4	M
2	10.570	10.570	0.000	25135451	100.0	96.4	
						RPD = 1.03	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

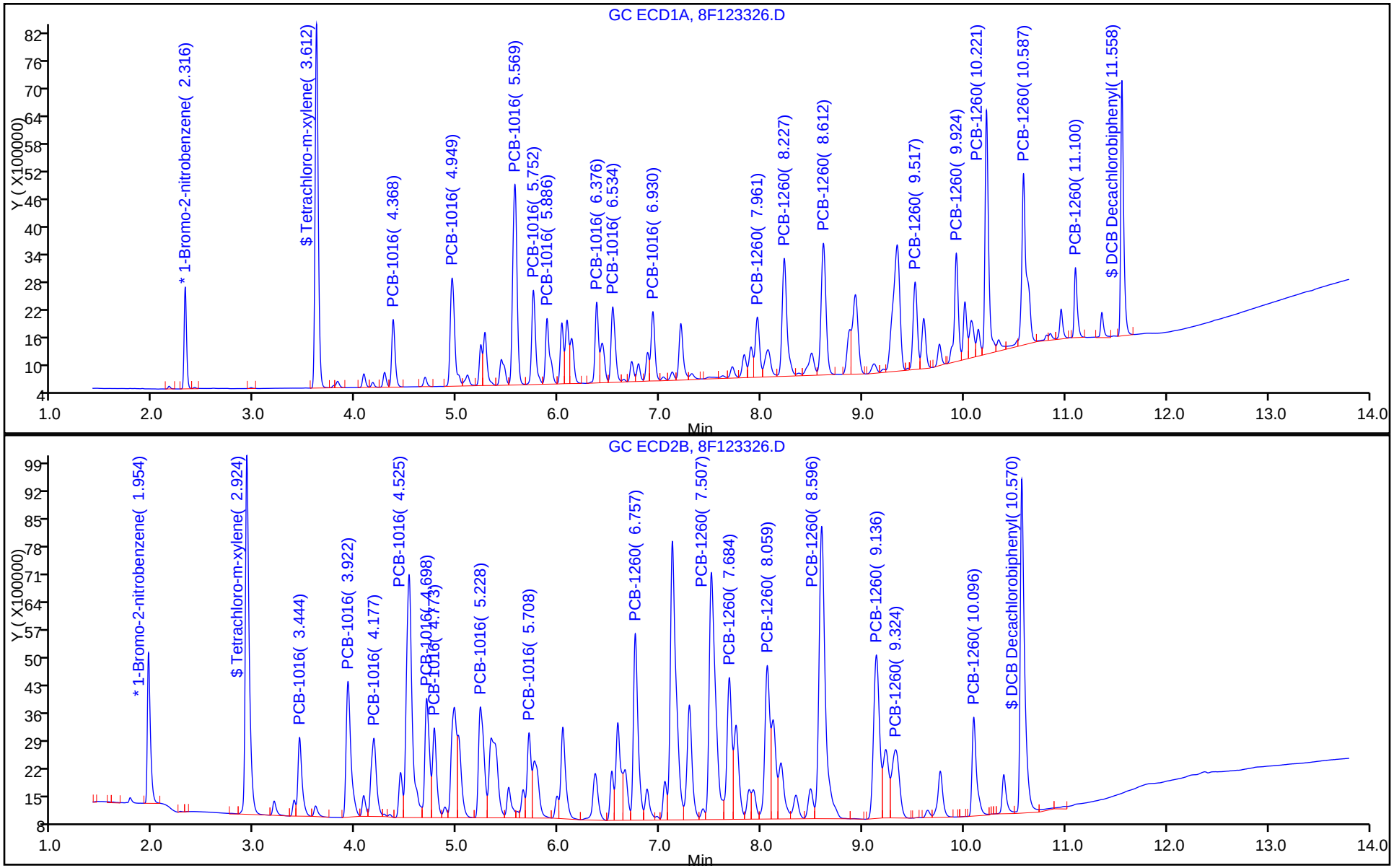
SG1660L3_00031	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:06 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D

Injection Date:	14-Dec-2017 12:51:59	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

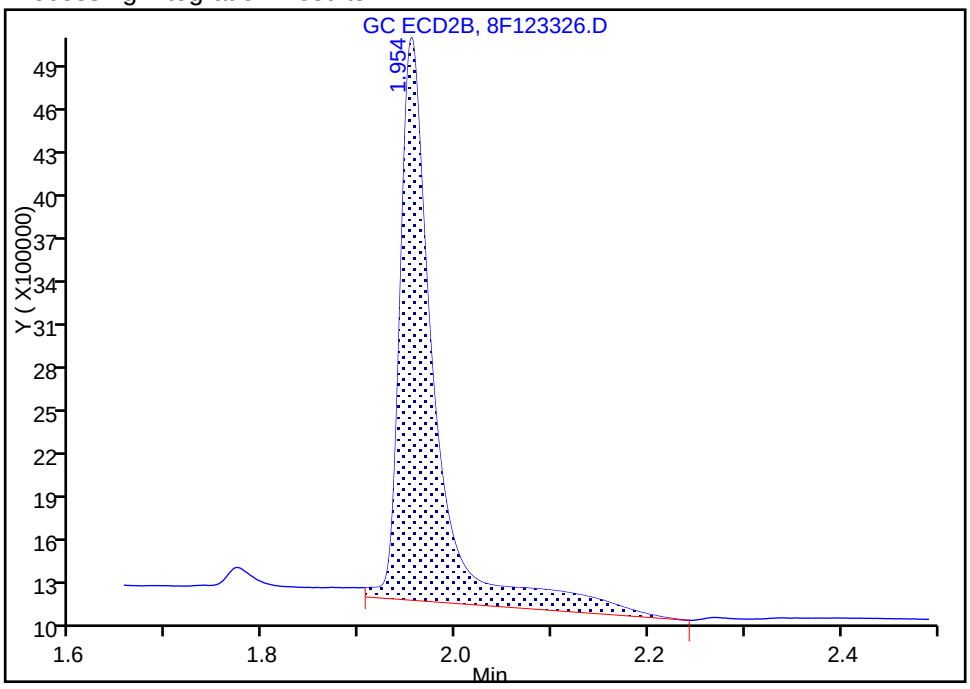
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123326.D				
Injection Date:	14-Dec-2017 12:51:59	Instrument ID:	CPESTGC8		
Lims ID:	IC PCB 3				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

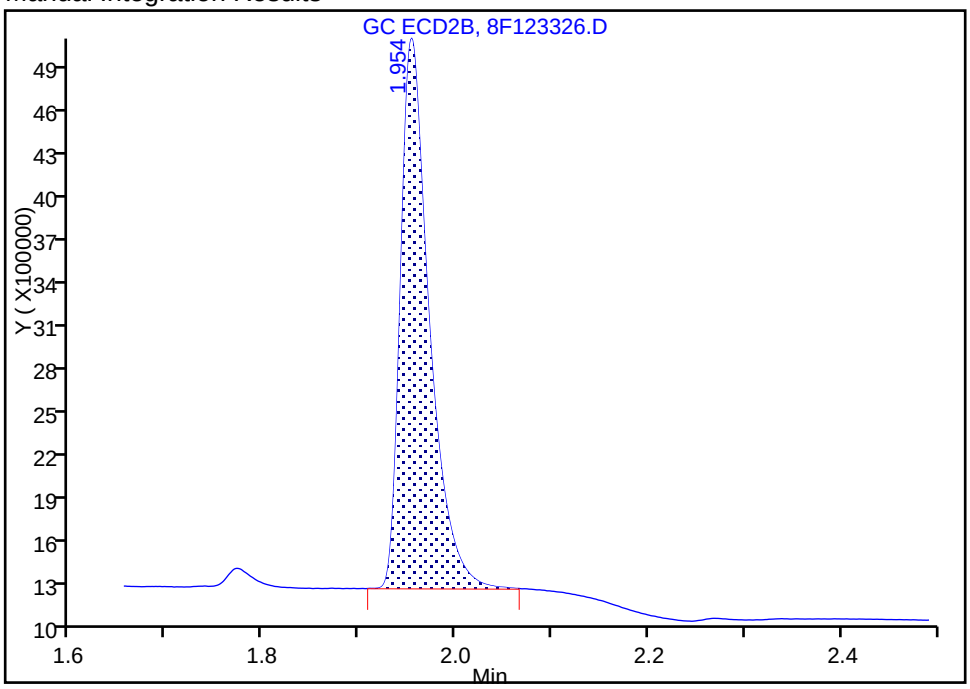
Processing Integration Results

RT: 1.95
Area: 9705334
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 7895834
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:31:12

Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D
Lims ID: IC PCB 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Dec-2017 13:09:25 ALS Bottle#: 9 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-005
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:08 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 14:30:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.316	-0.001	3801983	20.0	20.0	
2	1.952	1.954	-0.002	8266415	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.611	3.612	-0.001	26442093	150.0	147.1	
2	2.922	2.924	-0.002	36833263	150.0	143.5	
						RPD = 2.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.367	4.368	-0.001	5119803	1500.0	1428.0	
1	4.949	4.949	0.000	10731859	1500.0	1443.6	
1	5.569	5.569	0.000	19188535	1500.0	1427.0	
1	5.752	5.752	0.000	8121911	1500.0	1410.7	
1	5.886	5.886	0.000	6227383	1500.0	1410.4	
1	6.376	6.376	0.000	6189181	1500.0	1418.3	
1	6.534	6.534	0.000	7107268	1500.0	1439.5	
1	6.930	6.930	0.000	5884899	1500.0	1491.5	
		Average of Peak Amounts =				1433.6	
2	3.443	3.444	-0.001	8430659	1500.0	1408.0	
2	3.922	3.922	0.000	16717741	1500.0	1365.3	
2	4.177	4.177	0.000	11080920	1500.0	1419.9	
2	4.525	4.525	0.000	35212954	1500.0	1356.1	
2	4.698	4.698	0.000	13637093	1500.0	1353.0	
2	4.773	4.773	0.000	9661627	1500.0	1387.0	
2	5.228	5.228	0.000	14797418	1500.0	1342.0	
2	5.708	5.708	0.000	8307198	1500.0	1298.8	
		Average of Peak Amounts =				1366.3	
						RPD = 4.81	
8 PCB-1260							M
1	7.961	7.961	0.000	5861605	1500.0	1401.3	M
1	8.227	8.227	0.000	12691470	1500.0	1409.3	M
1	8.612	8.612	0.000	14188075	1500.0	1407.4	M
1	9.517	9.517	0.000	8374697	1500.0	1504.6	M
1	9.923	9.924	-0.001	9402644	1500.0	1436.1	M
1	10.220	10.221	-0.001	19064976	1500.0	1410.2	M
1	10.584	10.587	-0.003	18222289	1500.0	1454.0	M
1	11.096	11.100	-0.004	4724889	1500.0	1398.8	M
		Average of Peak Amounts =				1427.7	
2	6.756	6.757	-0.001	21672143	1500.0	1342.4	
2	7.507	7.507	0.000	39521415	1500.0	1378.9	
2	7.684	7.684	0.000	17341778	1500.0	1363.4	
2	8.058	8.059	-0.001	19073377	1500.0	1337.3	
2	8.595	8.596	-0.001	48204088	1500.0	1376.8	
2	9.135	9.136	-0.001	26141798	1500.0	1423.6	
2	9.326	9.324	0.002	14267369	1500.0	1459.2	
2	10.095	10.096	-0.001	11484010	1500.0	1416.7	
		Average of Peak Amounts =				1387.3	
						RPD = 2.87	
$ 11 DCB Decachlorobiphenyl							M
1	11.552	11.558	-0.006	17107160	150.0	145.3	M
2	10.567	10.570	-0.003	37424252	150.0	137.1	
						RPD = 5.82	
S 12 Polychlorinated biphenyls, Total							
1						2861.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

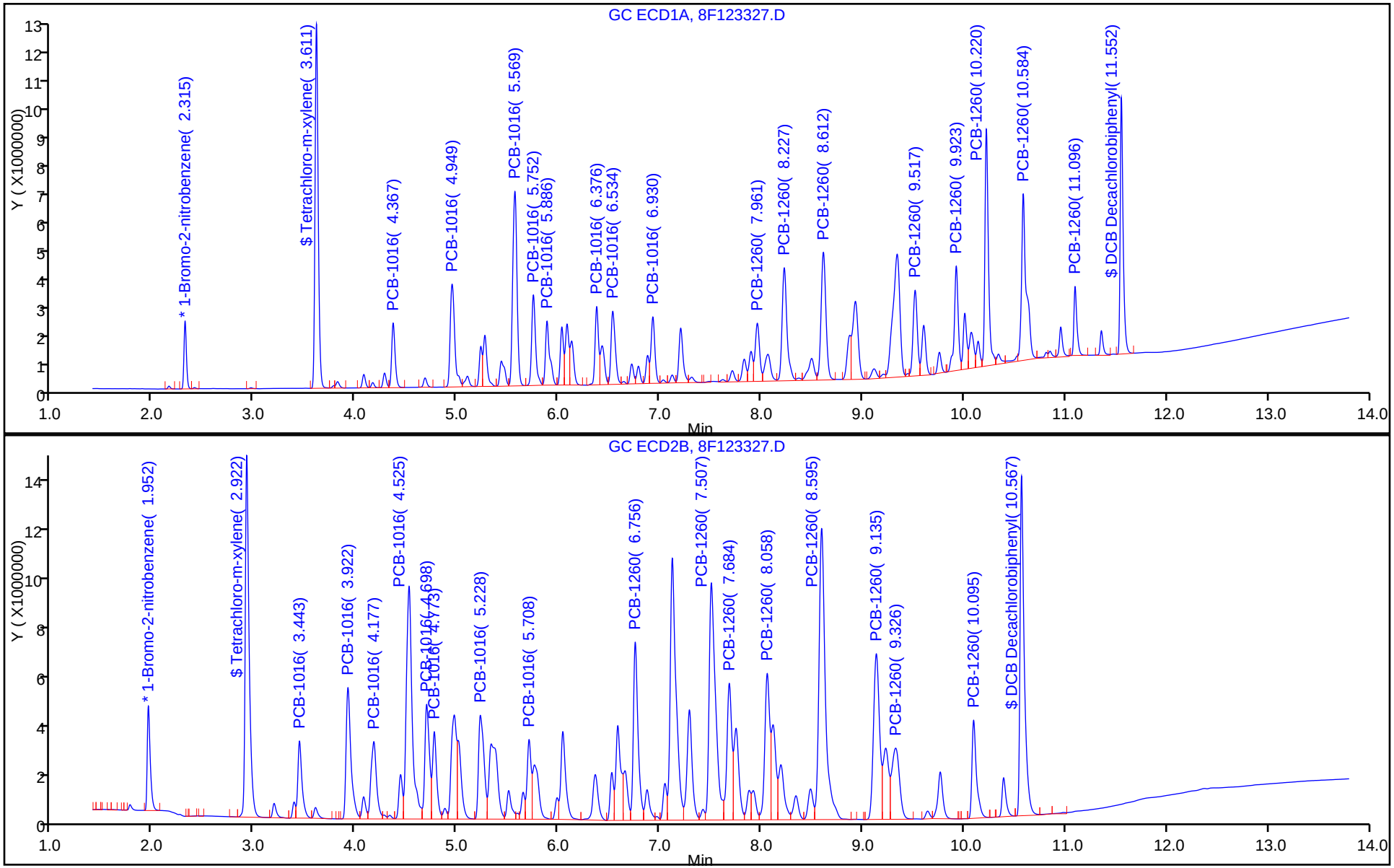
SG1660L4_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D

Injection Date:	14-Dec-2017 13:09:25	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

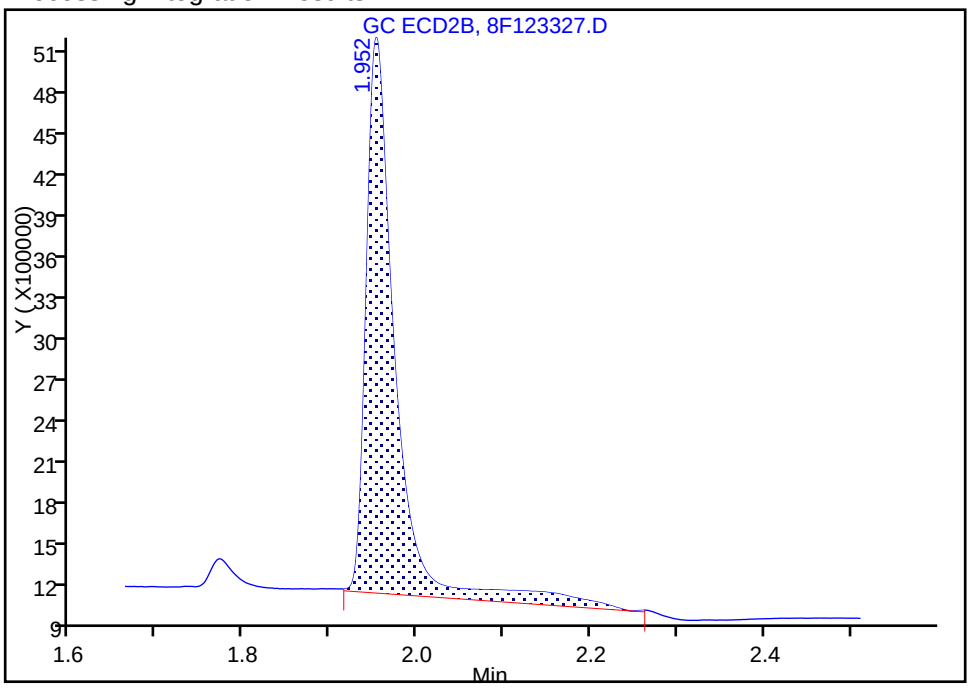
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123327.D				
Injection Date:	14-Dec-2017 13:09:25	Instrument ID:	CPESTGC8		
Lims ID:	IC PCB 4				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

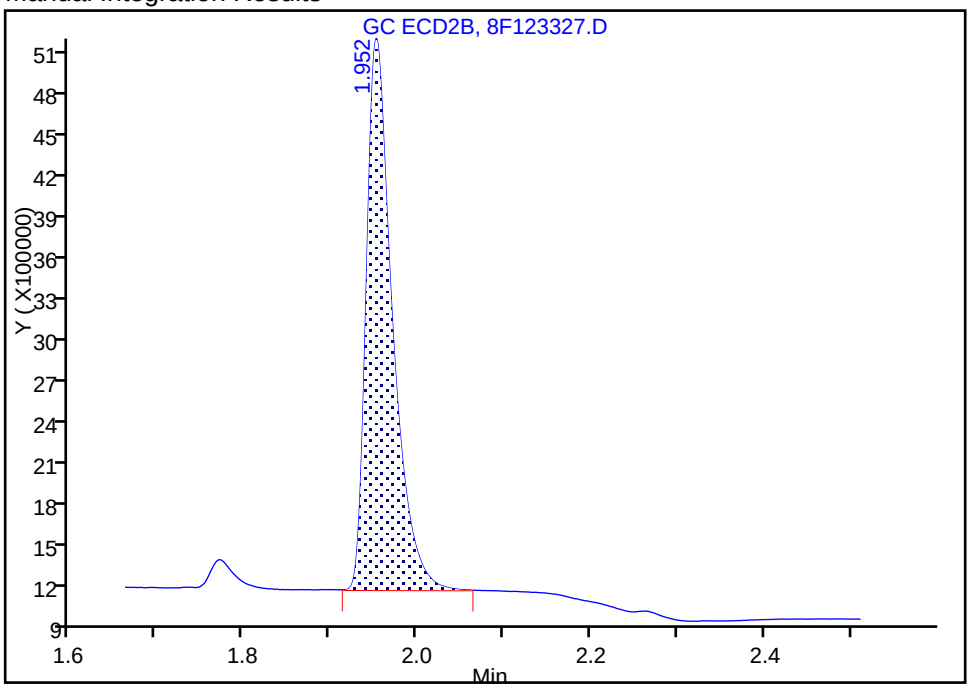
Processing Integration Results

RT: 1.95
Area: 9360817
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8266415
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 14:29:37

Audit Action: Manually Integrated Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D
Lims ID: IC PCB 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Dec-2017 14:40:55 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-009
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:17 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 15:09:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.316	2.316	0.000	3657693	20.0	20.0	
2	1.952	1.954	-0.002	8260994	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.612	3.612	0.000	39542822	200.0	228.6	
2	2.922	2.924	-0.002	54917039	200.0	214.1	
						RPD = 6.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	4.370	4.368	0.002	9070255	2500.0	2629.7	
1	4.952	4.949	0.003	18913444	2500.0	2644.5	
1	5.571	5.569	0.002	34575802	2500.0	2672.7	
1	5.752	5.752	0.000	14761424	2500.0	2665.0	
1	5.887	5.886	0.001	11553337	2500.0	2719.8	
1	6.377	6.376	0.001	10973755	2500.0	2614.0	
1	6.536	6.534	0.002	12395046	2500.0	2609.5	
1	6.932	6.930	0.002	10075598	2500.0	2654.3	
		Average of Peak Amounts =				2651.2	
2	3.443	3.444	-0.001	14770080	2500.0	2468.4	
2	3.922	3.922	0.000	29137929	2500.0	2381.3	
2	4.177	4.177	0.000	19646109	2500.0	2519.1	
2	4.525	4.525	0.000	62106434	2500.0	2393.4	
2	4.697	4.698	-0.001	24030832	2500.0	2385.8	
2	4.774	4.773	0.001	17556385	2500.0	2522.0	
2	5.228	5.228	0.000	26636135	2500.0	2417.2	
2	5.708	5.708	0.000	15125211	2500.0	2366.3	
		Average of Peak Amounts =				2431.7	
						RPD = 8.64	
8 PCB-1260							M
1	7.962	7.961	0.001	9974616	2500.0	2478.6	M
1	8.228	8.227	0.001	21803055	2500.0	2516.6	M
1	8.615	8.612	0.003	24837408	2500.0	2561.0	M
1	9.520	9.517	0.003	15370742	2500.0	2870.4	M
1	9.927	9.924	0.003	17421900	2500.0	2766.0	M
1	10.223	10.221	0.002	34681581	2500.0	2666.5	M
1	10.588	10.587	0.001	33402921	2500.0	2770.5	M
1	11.101	11.100	0.001	8920117	2500.0	2744.9	M
		Average of Peak Amounts =				2671.8	
2	6.756	6.757	-0.001	39275292	2500.0	2434.3	
2	7.506	7.507	-0.001	72484933	2500.0	2530.7	
2	7.683	7.684	-0.001	31356997	2500.0	2466.9	
2	8.058	8.059	-0.001	35122552	2500.0	2464.2	
2	8.595	8.596	-0.001	86988434	2500.0	2486.1	
2	9.134	9.136	-0.002	46586333	2500.0	2538.6	
2	9.324	9.324	0.000	25758278	2500.0	2636.1	
2	10.097	10.096	0.001	20660718	2500.0	2550.4	
		Average of Peak Amounts =				2513.4	
						RPD = 6.11	
$ 11 DCB Decachlorobiphenyl							
1	11.559	11.558	0.001	25968156	200.0	229.2	
2	10.571	10.570	0.001	55132687	200.0	202.1	
						RPD = 12.61	
S 12 Polychlorinated biphenyls, Total							
1						5323.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

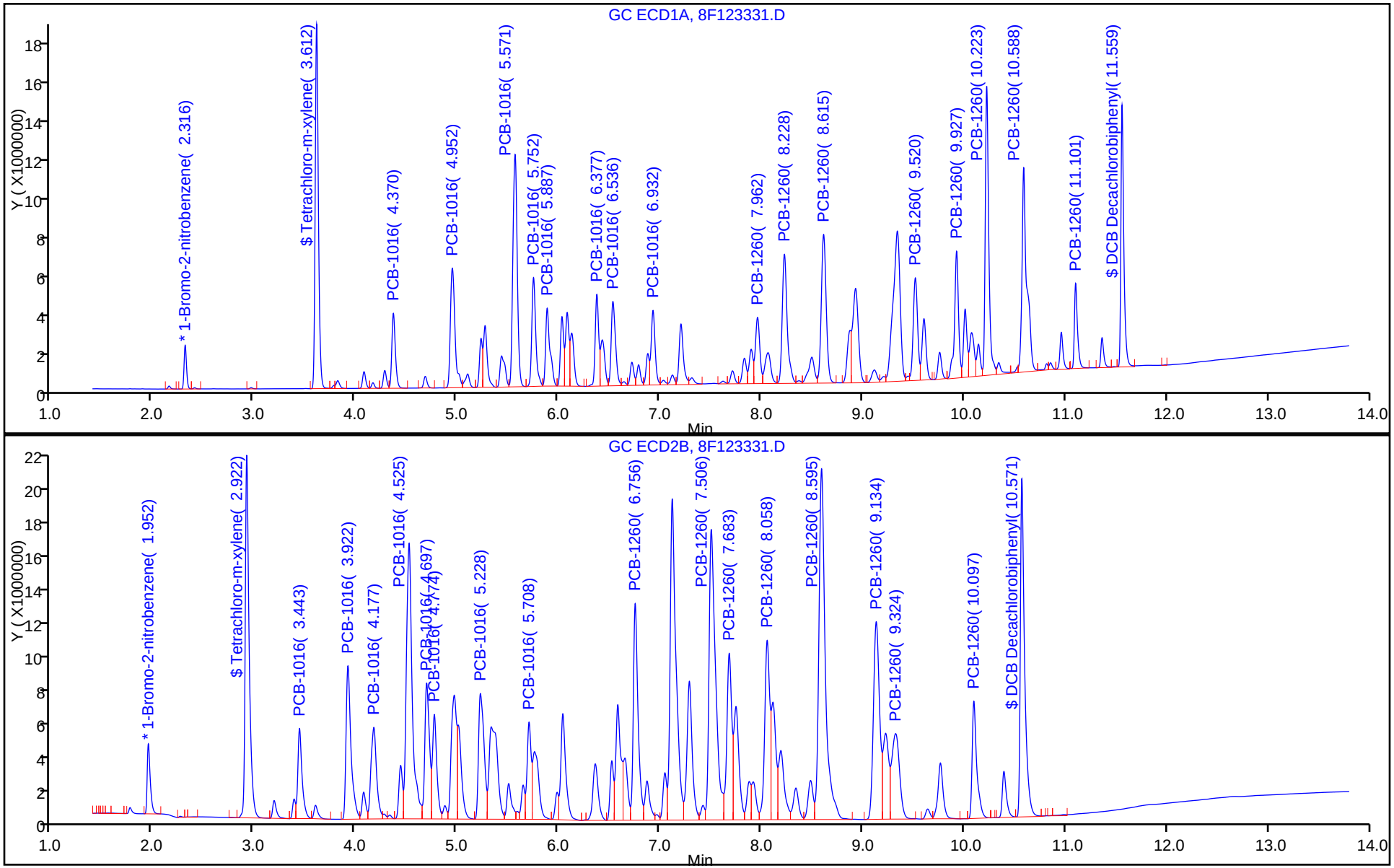
SG1660L5_00024	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 14-Dec-2017 17:55:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D

Injection Date:	14-Dec-2017 14:40:55	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC PCB 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

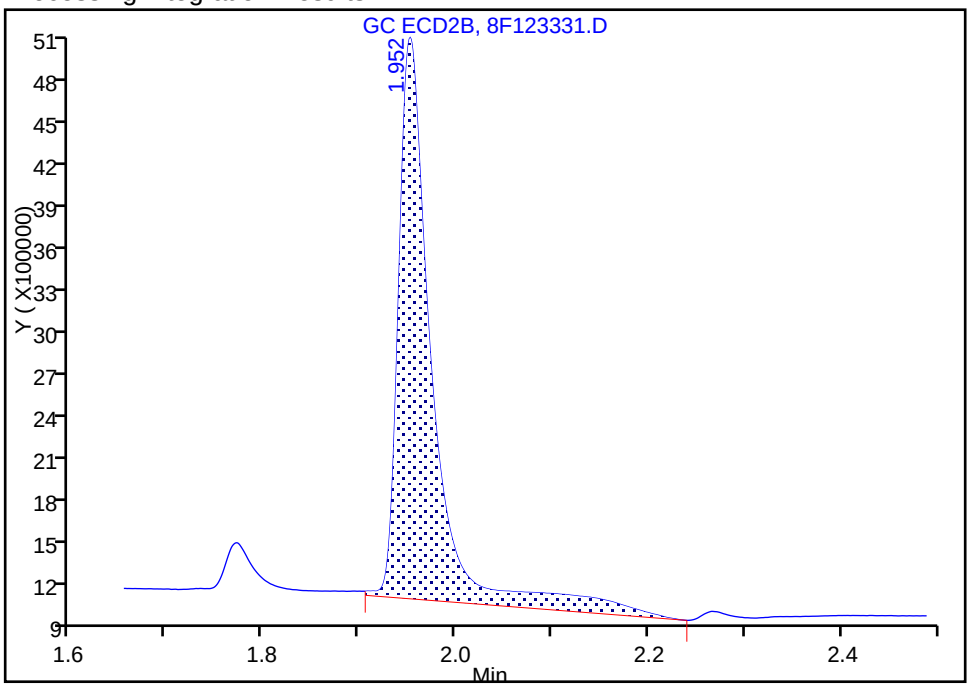
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123331.D
Injection Date: 14-Dec-2017 14:40:55 Instrument ID: CPESTGC8
Lims ID: IC PCB 5
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

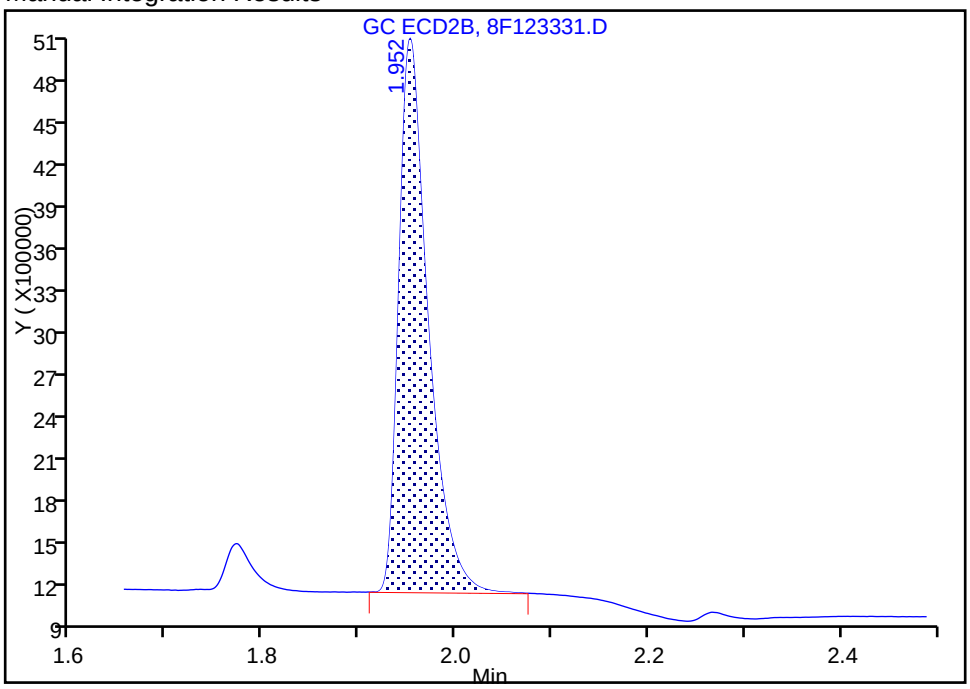
Processing Integration Results

RT: 1.95
Area: 9678859
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8260994
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 15:07:30
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:15 Calibration End Date: 12/14/2017 15:15 Calibration ID: 65414

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/11	8F123333.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0084					Ave		0.0084						20.0			0.9900
PCB-1221 Peak 2	0.0119					Ave		0.0119						20.0			0.9900
PCB-1221 Peak 3	0.0080					Ave		0.0080						20.0			0.9900
PCB-1221 Peak 4	0.0283					Ave		0.0283						20.0			0.9900
PCB-1221 Peak 5	0.0043					Ave		0.0043						20.0			0.9900
PCB-1221 Peak 6	0.0049					Ave		0.0049						20.0			0.9900
PCB-1221 Peak 7	0.0025					Ave		0.0025						20.0			0.9900
PCB-1221 Peak 8	0.0014					Ave		0.0014						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:15 Calibration End Date: 12/14/2017 15:15 Calibration ID: 65414

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/11	8F123333.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	1529619					1000				
PCB-1221 Peak 2	BNB	Ave	2177018					1000				
PCB-1221 Peak 3	BNB	Ave	1462502					1000				
PCB-1221 Peak 4	BNB	Ave	5170437					1000				
PCB-1221 Peak 5	BNB	Ave	786169					1000				
PCB-1221 Peak 6	BNB	Ave	887608					1000				
PCB-1221 Peak 7	BNB	Ave	450449					1000				
PCB-1221 Peak 8	BNB	Ave	259466					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:15:44 ALS Bottle#: 15 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-011
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:27 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:32:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3657393	20.0	20.0	M
2	1.953	1.953	0.000	8103421	20.0	20.0	M
						RPD = 0.00	
1 PCB-1221							M
1	2.965	2.965	0.000	1529619	1000.0	1000.0	
1	4.079	4.079	0.000	2177018	1000.0	1000.0	
1	4.283	4.283	0.000	1462502	1000.0	1000.0	
1	4.369	4.369	0.000	5170437	1000.0	1000.0	
1	5.016	5.016	0.000	786169	1000.0	1000.0	M
1	5.569	5.569	0.000	887608	1000.0	1000.0	
1	5.751	5.751	0.000	450449	1000.0	1000.0	M
1	5.884	5.884	0.000	259466	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	2.268	2.268	0.000	2559672	1000.0	1000.0	
2	3.193	3.193	0.000	3115453	1000.0	1000.0	
2	3.391	3.391	0.000	1612588	1000.0	1000.0	
2	3.444	3.444	0.000	8251551	1000.0	1000.0	
2	3.922	3.922	0.000	845789	1000.0	1000.0	
2	4.078	4.078	0.000	1346434	1000.0	1000.0	
2	4.525	4.525	0.000	1624060	1000.0	1000.0	
2	4.696	4.696	0.000	692452	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

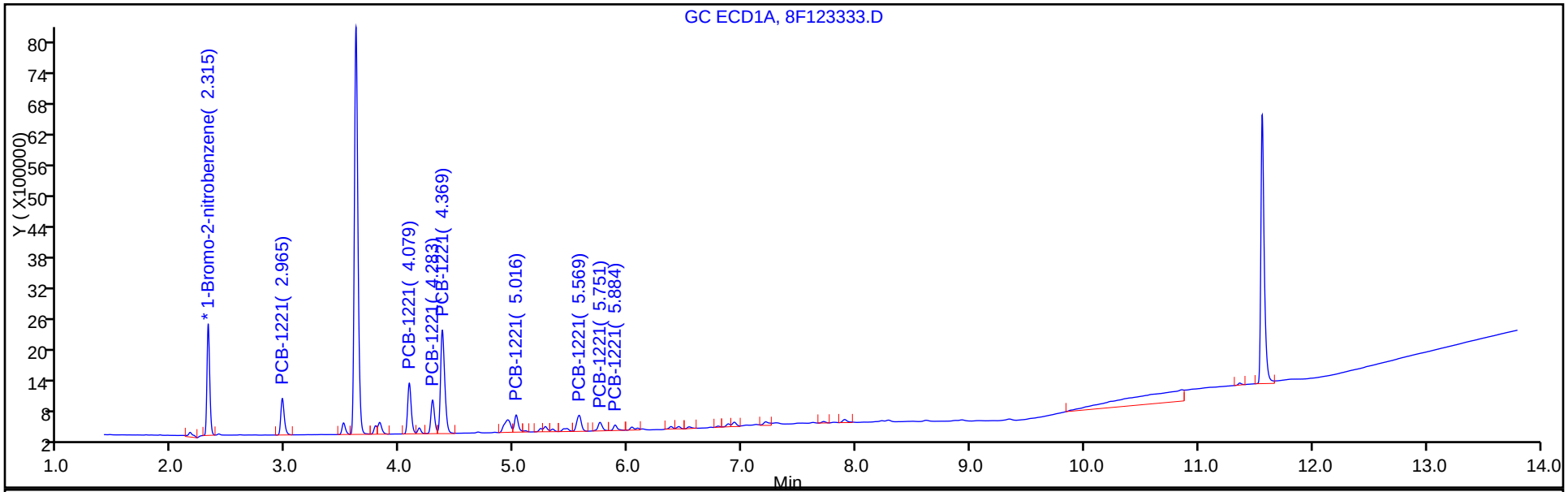
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

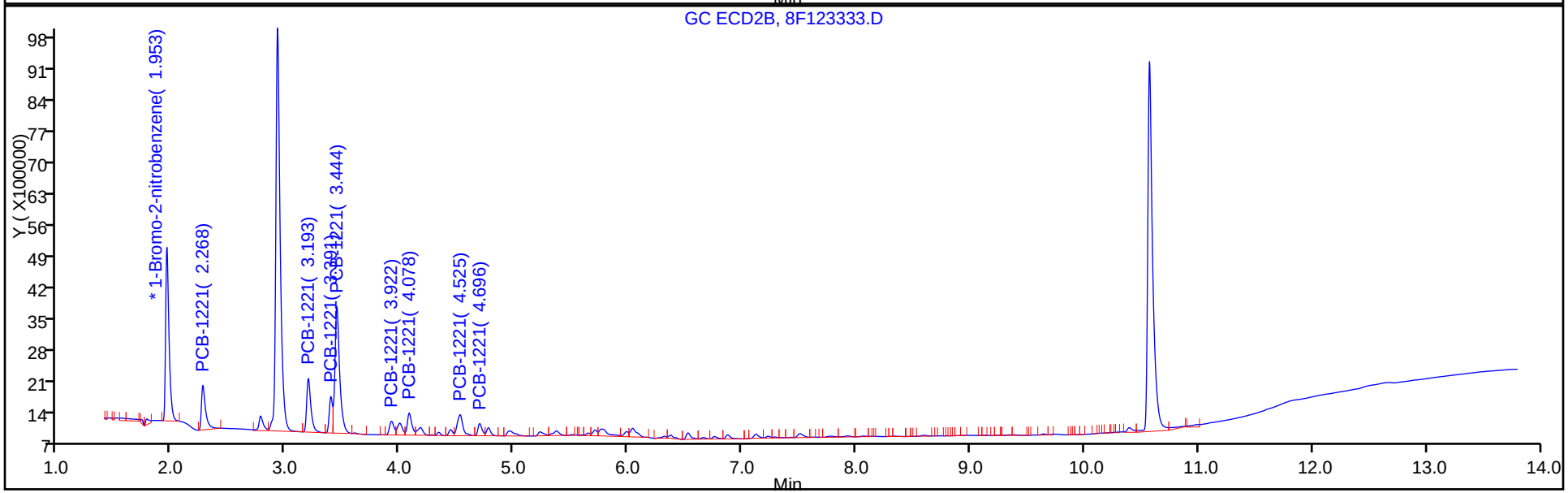
Report Date: 14-Dec-2017 17:55:28 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D

Injection Date:	14-Dec-2017 15:15:44	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





TestAmerica Edison

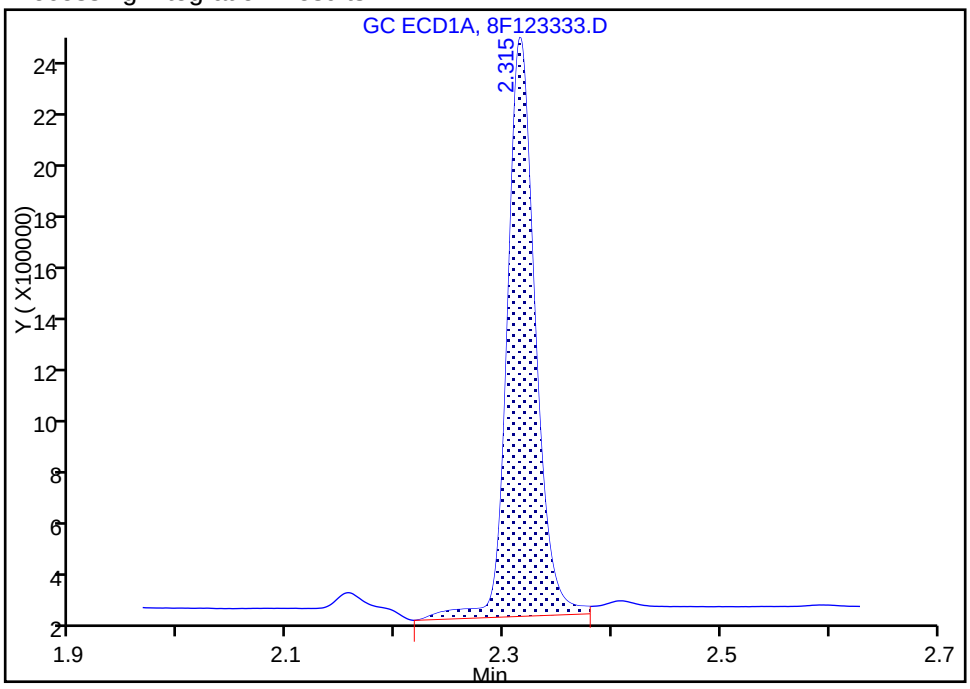
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D
Injection Date: 14-Dec-2017 15:15:44 Instrument ID: CPESTGC8
Lims ID: IC 1221
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

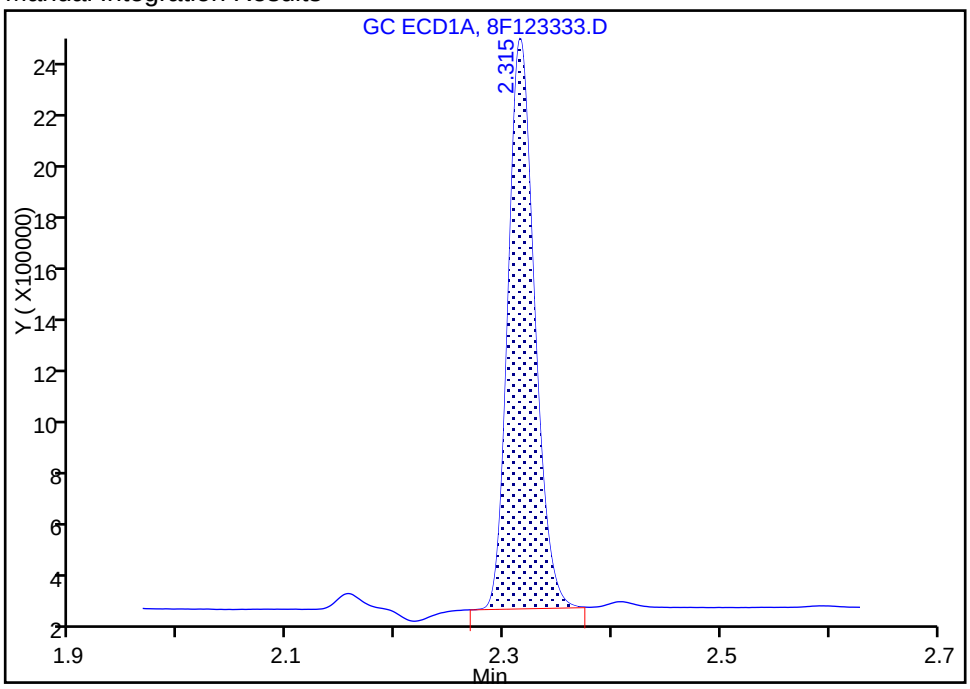
Processing Integration Results

RT: 2.31
Area: 3936794
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.31
Area: 3657393
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 16:35:30
Audit Action: Manually Integrated Audit Reason: Peak not integrated

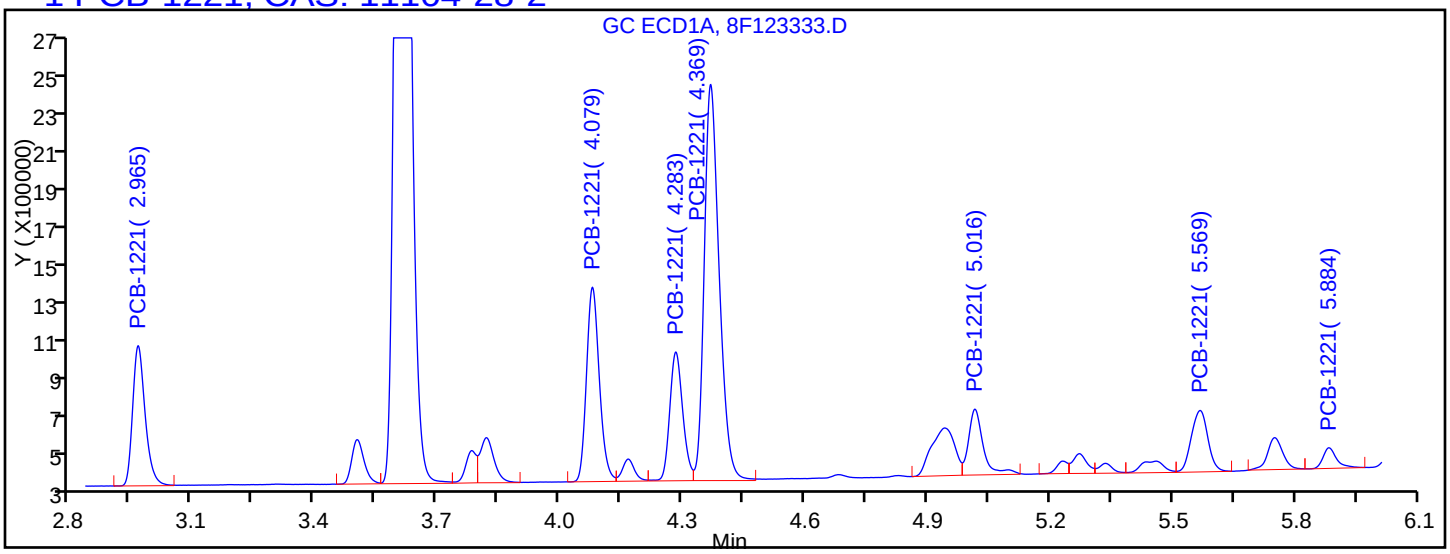
Report Date: 14-Dec-2017 17:55:28 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D

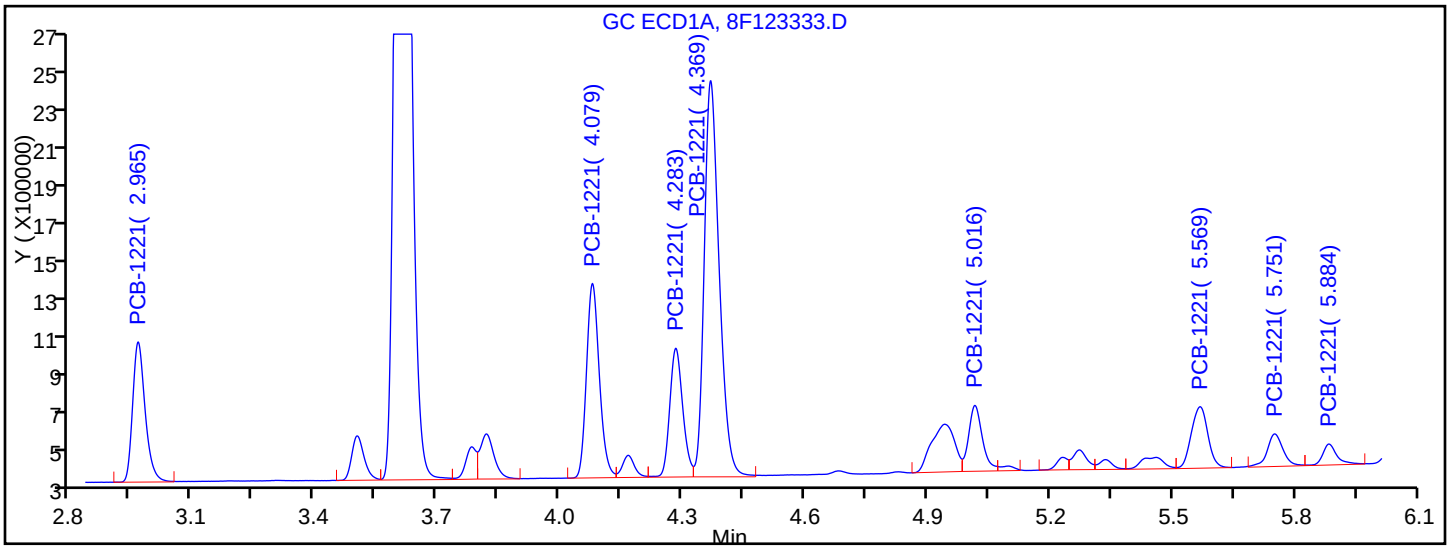
Injection Date:	14-Dec-2017 15:15:44	Instrument ID:	CPESTGC8
Lims ID:	IC 1221		
Client ID:			
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

1 PCB-1221, CAS: 11104-28-2



Processing Integration Results

2.965	Response = 1529619
4.079	Response = 2177018
4.283	Response = 1462502
4.369	Response = 5170437
5.016	Response = 844297
5.569	Response = 887608
5.751	Response = 0
5.884	Response = 244286



Manual Integration Results

2.965	Response = 1529619
4.079	Response = 2177018
4.283	Response = 1462502
4.369	Response = 5170437
5.016	Response = 786169
5.569	Response = 887608

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:15 Calibration End Date: 12/14/2017 15:15 Calibration ID: 65415

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/11	8F123333.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0063					Ave		0.0063						20.0			0.9900
PCB-1221 Peak 2	0.0077					Ave		0.0077						20.0			0.9900
PCB-1221 Peak 3	0.0040					Ave		0.0040						20.0			0.9900
PCB-1221 Peak 4	0.0204					Ave		0.0204						20.0			0.9900
PCB-1221 Peak 5	0.0021					Ave		0.0021						20.0			0.9900
PCB-1221 Peak 6	0.0033					Ave		0.0033						20.0			0.9900
PCB-1221 Peak 7	0.0040					Ave		0.0040						20.0			0.9900
PCB-1221 Peak 8	0.0017					Ave		0.0017						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:15 Calibration End Date: 12/14/2017 15:15 Calibration ID: 65415

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/11	8F123333.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	2559672					1000				
PCB-1221 Peak 2	BNB	Ave	3115453					1000				
PCB-1221 Peak 3	BNB	Ave	1612588					1000				
PCB-1221 Peak 4	BNB	Ave	8251551					1000				
PCB-1221 Peak 5	BNB	Ave	845789					1000				
PCB-1221 Peak 6	BNB	Ave	1346434					1000				
PCB-1221 Peak 7	BNB	Ave	1624060					1000				
PCB-1221 Peak 8	BNB	Ave	692452					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D
Lims ID: IC 1221
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:15:44 ALS Bottle#: 15 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-011
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:27 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:32:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3657393	20.0	20.0	M
2	1.953	1.953	0.000	8103421	20.0	20.0	M
						RPD = 0.00	
1 PCB-1221							M
1	2.965	2.965	0.000	1529619	1000.0	1000.0	
1	4.079	4.079	0.000	2177018	1000.0	1000.0	
1	4.283	4.283	0.000	1462502	1000.0	1000.0	
1	4.369	4.369	0.000	5170437	1000.0	1000.0	
1	5.016	5.016	0.000	786169	1000.0	1000.0	M
1	5.569	5.569	0.000	887608	1000.0	1000.0	
1	5.751	5.751	0.000	450449	1000.0	1000.0	M
1	5.884	5.884	0.000	259466	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	2.268	2.268	0.000	2559672	1000.0	1000.0	
2	3.193	3.193	0.000	3115453	1000.0	1000.0	
2	3.391	3.391	0.000	1612588	1000.0	1000.0	
2	3.444	3.444	0.000	8251551	1000.0	1000.0	
2	3.922	3.922	0.000	845789	1000.0	1000.0	
2	4.078	4.078	0.000	1346434	1000.0	1000.0	
2	4.525	4.525	0.000	1624060	1000.0	1000.0	
2	4.696	4.696	0.000	692452	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

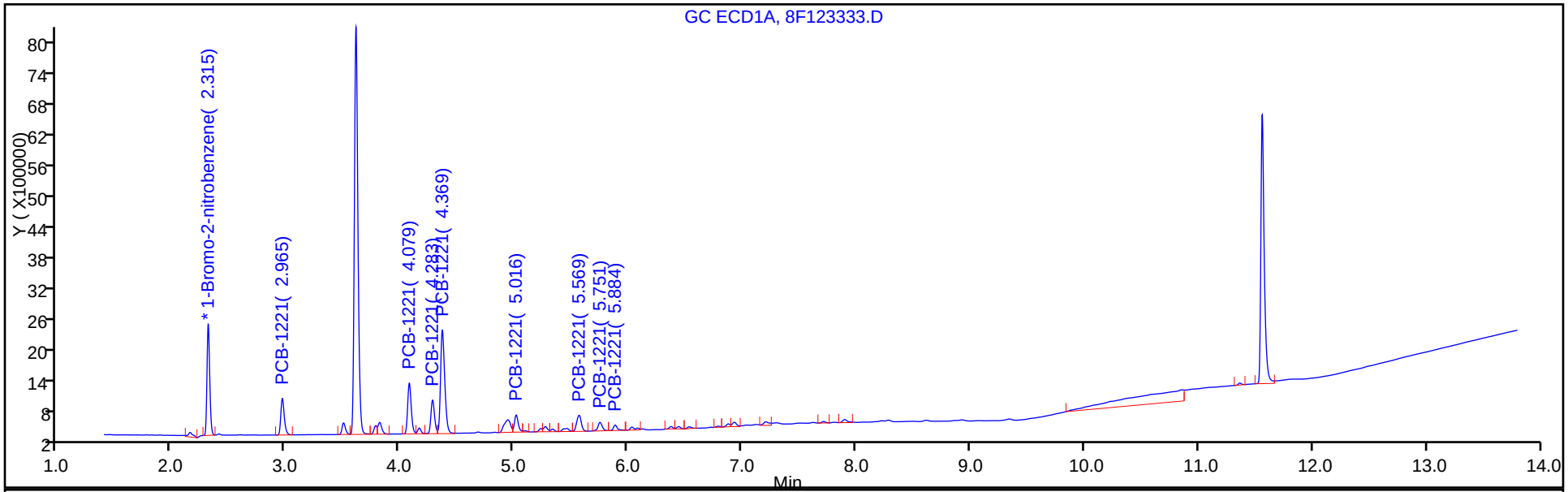
SG1221L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

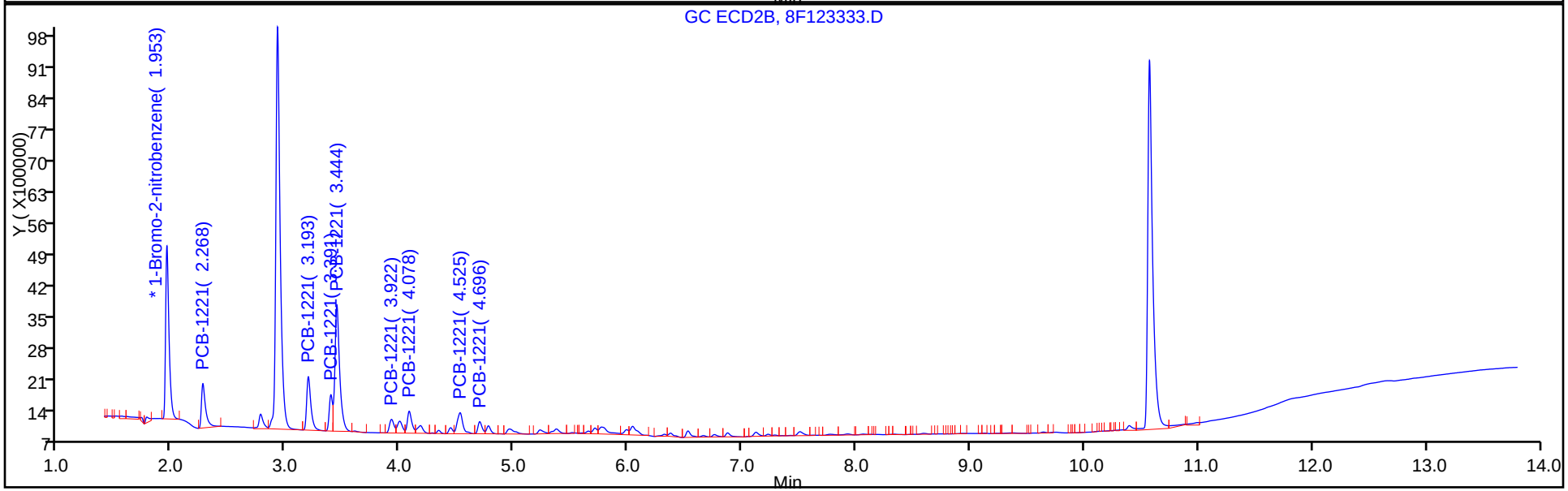
Report Date: 14-Dec-2017 17:55:29 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D

Injection Date:	14-Dec-2017 15:15:44	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1221			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

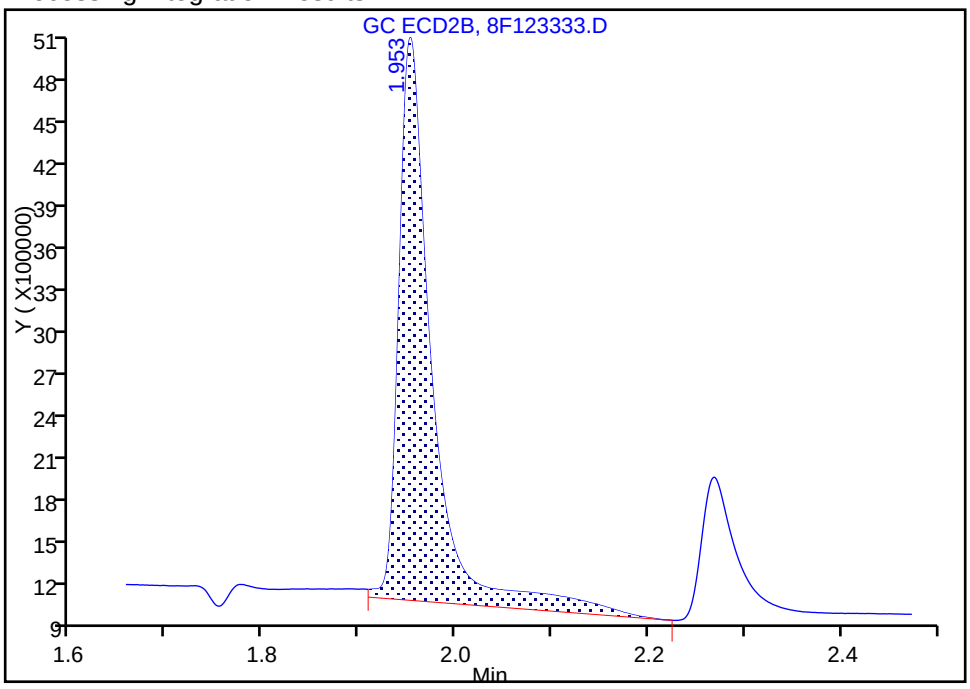
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123333.D
Injection Date: 14-Dec-2017 15:15:44 Instrument ID: CPESTGC8
Lims ID: IC 1221
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

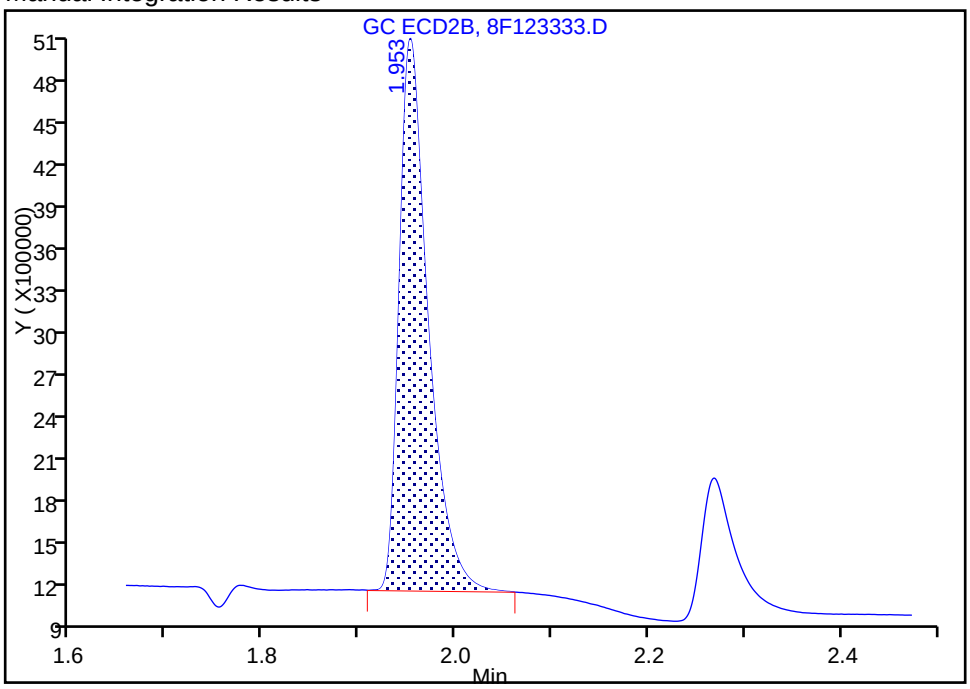
Processing Integration Results

RT: 1.95
Area: 9547703
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8103421
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 16:35:24
Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:33 Calibration End Date: 12/14/2017 15:33 Calibration ID: 65420

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/12	8F123334.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0224					Ave		0.0224						20.0			0.9900
PCB-1232 Peak 2	0.0189					Ave		0.0189						20.0			0.9900
PCB-1232 Peak 3	0.0077					Ave		0.0077						20.0			0.9900
PCB-1232 Peak 4	0.0324					Ave		0.0324						20.0			0.9900
PCB-1232 Peak 5	0.0139					Ave		0.0139						20.0			0.9900
PCB-1232 Peak 6	0.0095					Ave		0.0095						20.0			0.9900
PCB-1232 Peak 7	0.0088					Ave		0.0088						20.0			0.9900
PCB-1232 Peak 8	0.0103					Ave		0.0103						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:33 Calibration End Date: 12/14/2017 15:33 Calibration ID: 65420

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/12	8F123334.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	4386026					1000				
PCB-1232 Peak 2	BNB	Ave	3694757					1000				
PCB-1232 Peak 3	BNB	Ave	1511916					1000				
PCB-1232 Peak 4	BNB	Ave	6339997					1000				
PCB-1232 Peak 5	BNB	Ave	2721958					1000				
PCB-1232 Peak 6	BNB	Ave	1864620					1000				
PCB-1232 Peak 7	BNB	Ave	1721811					1000				
PCB-1232 Peak 8	BNB	Ave	2019105					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:33:10 ALS Bottle#: 16 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-012
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:30 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:36:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3912521	20.0	20.0	
2	1.953	1.953	0.000	8544249	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	4.368	4.368	0.000	4386026	1000.0	1000.0	
1	4.949	4.949	0.000	3694757	1000.0	1000.0	M
1	5.272	5.272	0.000	1511916	1000.0	1000.0	M
1	5.569	5.569	0.000	6339997	1000.0	1000.0	
1	5.751	5.751	0.000	2721958	1000.0	1000.0	
1	6.375	6.375	0.000	1864620	1000.0	1000.0	M
1	6.877	6.877	0.000	1721811	1000.0	1000.0	M
1	6.934	6.934	0.000	2019105	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.444	3.444	0.000	6973978	1000.0	1000.0	
2	3.922	3.922	0.000	6031395	1000.0	1000.0	M
2	4.177	4.177	0.000	3685833	1000.0	1000.0	M
2	4.525	4.525	0.000	11585616	1000.0	1000.0	M
2	4.971	4.971	0.000	4519325	1000.0	1000.0	M
2	5.228	5.228	0.000	4860824	1000.0	1000.0	M
2	5.786	5.786	0.000	7755858	1000.0	1000.0	M
2	6.034	6.034	0.000	4081635	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

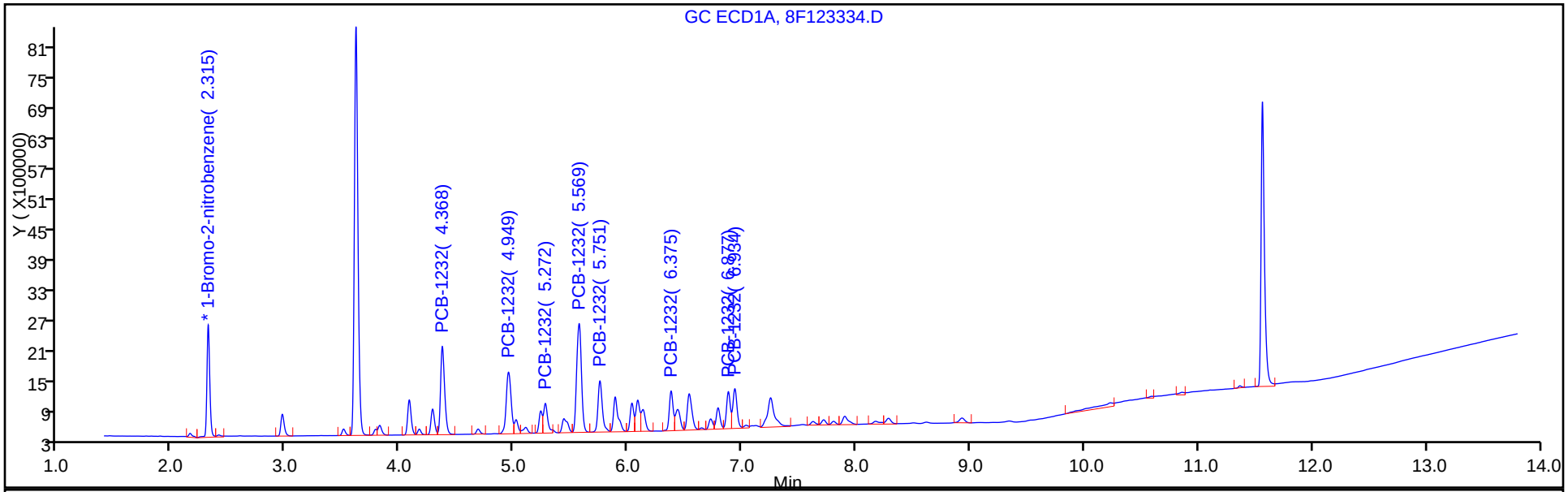
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

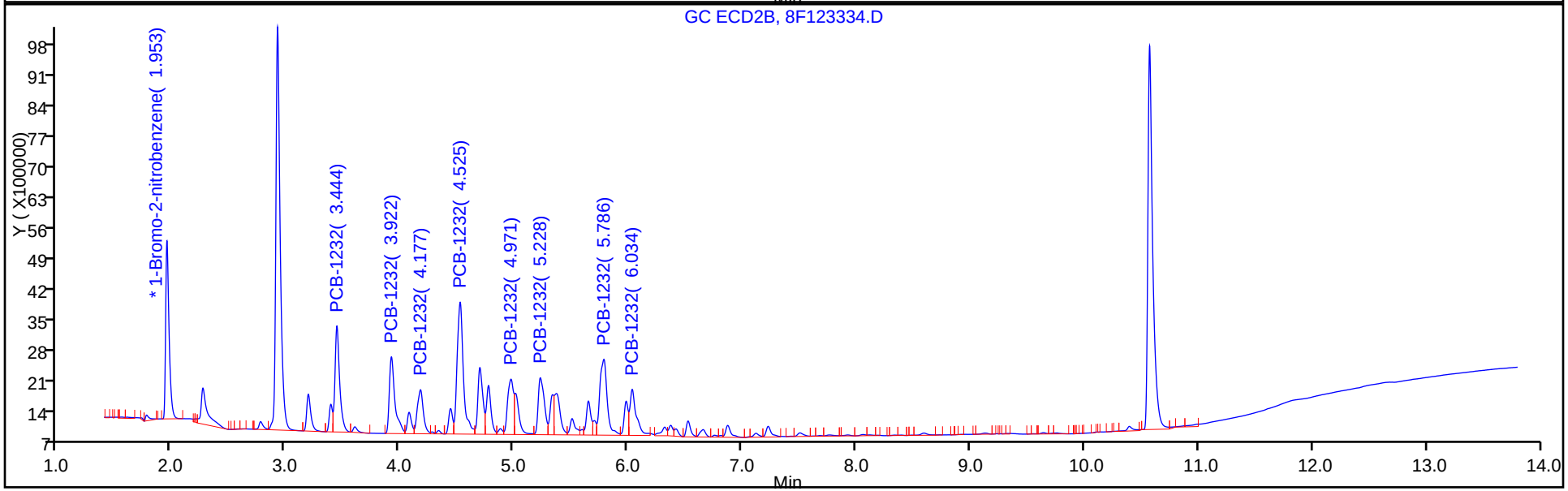
Report Date: 14-Dec-2017 17:55:32 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D

Injection Date:	14-Dec-2017 15:33:10	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 14-Dec-2017 17:55:32 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D

Injection Date: 14-Dec-2017 15:33:10 Instrument ID: CPESTGC8

Lims ID: IC 1232

Client ID:

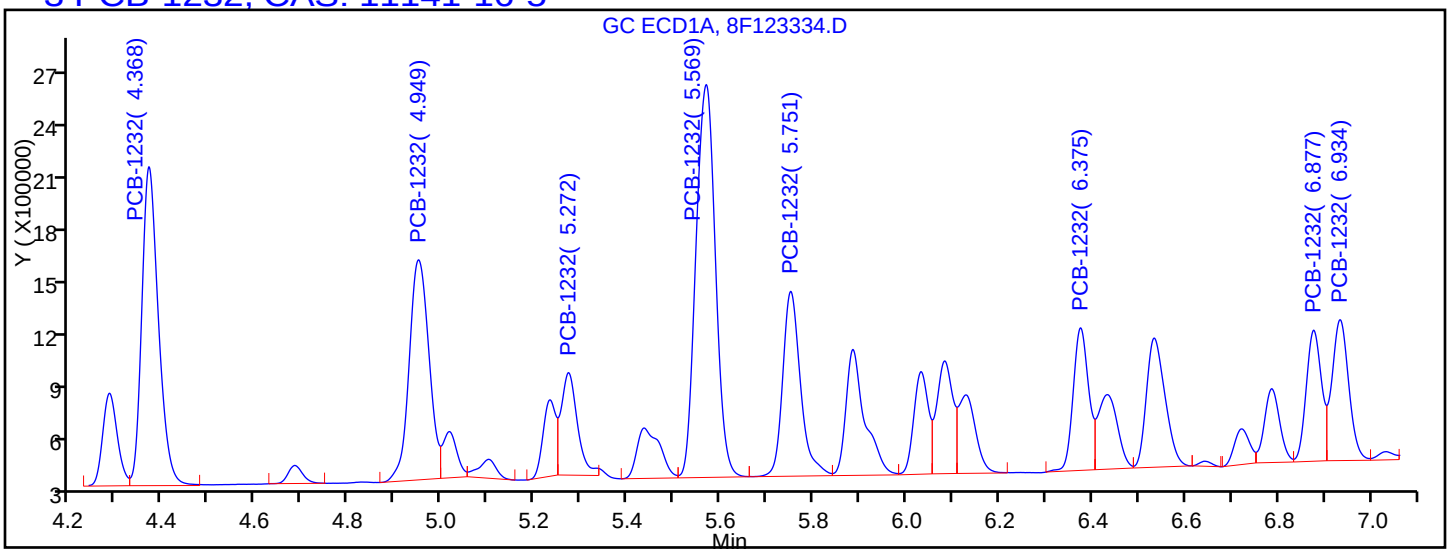
Operator ID: ALS Bottle#: 16 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

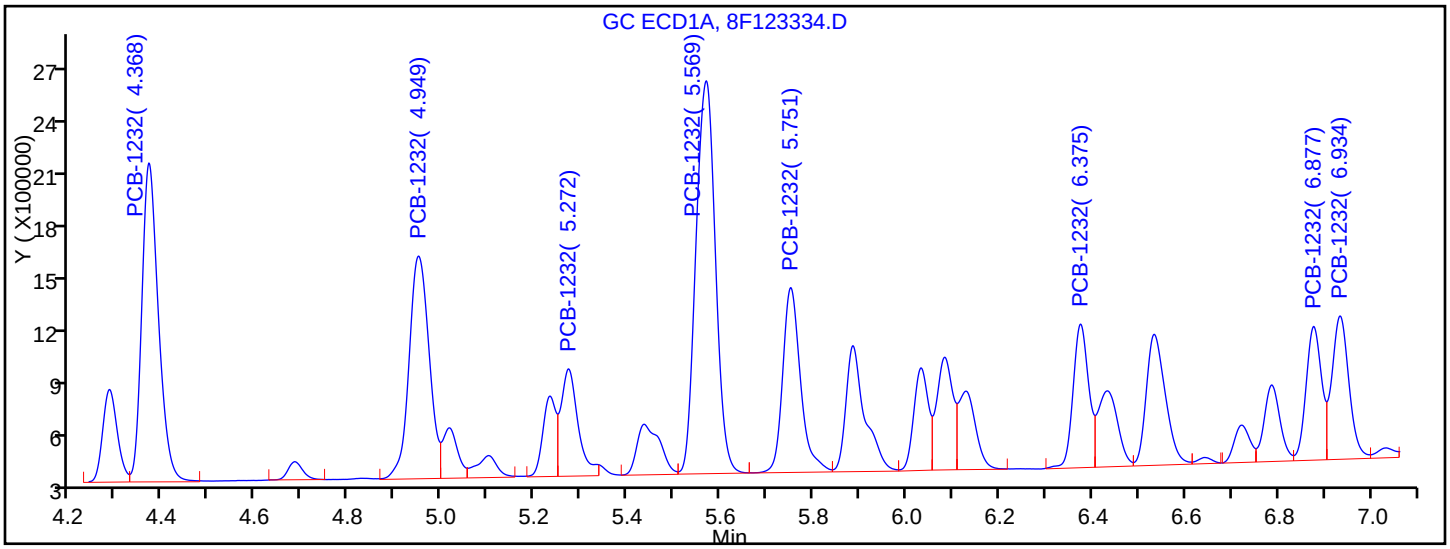
Column: Detector GC ECD1A

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

4.368	Response = 4386026
4.949	Response = 3599030
5.272	Response = 1380089
5.569	Response = 6339997
5.751	Response = 2721958
6.375	Response = 1832273
6.877	Response = 1659035
6.934	Response = 1948118



Manual Integration Results

4.368	Response = 4386026	
4.949	Response = 3694757	M
5.272	Response = 1511916	M
5.569	Response = 6339997	
5.751	Response = 2721958	
6.375	Response = 1864620	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:33 Calibration End Date: 12/14/2017 15:33 Calibration ID: 65421

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/12	8F123334.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0163					Ave		0.0163						20.0			0.9900
PCB-1232 Peak 2	0.0141					Ave		0.0141						20.0			0.9900
PCB-1232 Peak 3	0.0086					Ave		0.0086						20.0			0.9900
PCB-1232 Peak 4	0.0271					Ave		0.0271						20.0			0.9900
PCB-1232 Peak 5	0.0106					Ave		0.0106						20.0			0.9900
PCB-1232 Peak 6	0.0114					Ave		0.0114						20.0			0.9900
PCB-1232 Peak 7	0.0182					Ave		0.0182						20.0			0.9900
PCB-1232 Peak 8	0.0096					Ave		0.0096						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:33 Calibration End Date: 12/14/2017 15:33 Calibration ID: 65421

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/12	8F123334.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	6973978					1000				
PCB-1232 Peak 2	BNB	Ave	6031395					1000				
PCB-1232 Peak 3	BNB	Ave	3685833					1000				
PCB-1232 Peak 4	BNB	Ave	11585616					1000				
PCB-1232 Peak 5	BNB	Ave	4519325					1000				
PCB-1232 Peak 6	BNB	Ave	4860824					1000				
PCB-1232 Peak 7	BNB	Ave	7755858					1000				
PCB-1232 Peak 8	BNB	Ave	4081635					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D
Lims ID: IC 1232
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:33:10 ALS Bottle#: 16 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-012
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:30 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:36:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3912521	20.0	20.0	
2	1.953	1.953	0.000	8544249	20.0	20.0	M
						RPD = 0.00	
3 PCB-1232							M
1	4.368	4.368	0.000	4386026	1000.0	1000.0	
1	4.949	4.949	0.000	3694757	1000.0	1000.0	M
1	5.272	5.272	0.000	1511916	1000.0	1000.0	M
1	5.569	5.569	0.000	6339997	1000.0	1000.0	
1	5.751	5.751	0.000	2721958	1000.0	1000.0	
1	6.375	6.375	0.000	1864620	1000.0	1000.0	M
1	6.877	6.877	0.000	1721811	1000.0	1000.0	M
1	6.934	6.934	0.000	2019105	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.444	3.444	0.000	6973978	1000.0	1000.0	
2	3.922	3.922	0.000	6031395	1000.0	1000.0	M
2	4.177	4.177	0.000	3685833	1000.0	1000.0	M
2	4.525	4.525	0.000	11585616	1000.0	1000.0	M
2	4.971	4.971	0.000	4519325	1000.0	1000.0	M
2	5.228	5.228	0.000	4860824	1000.0	1000.0	M
2	5.786	5.786	0.000	7755858	1000.0	1000.0	M
2	6.034	6.034	0.000	4081635	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

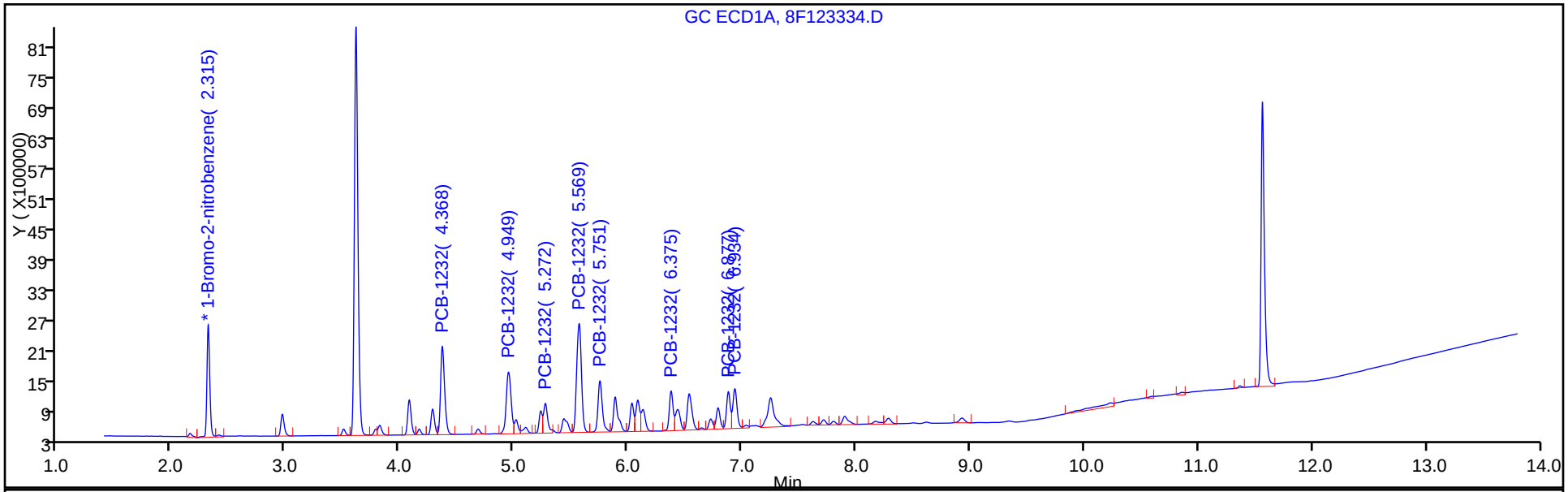
SG1232L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

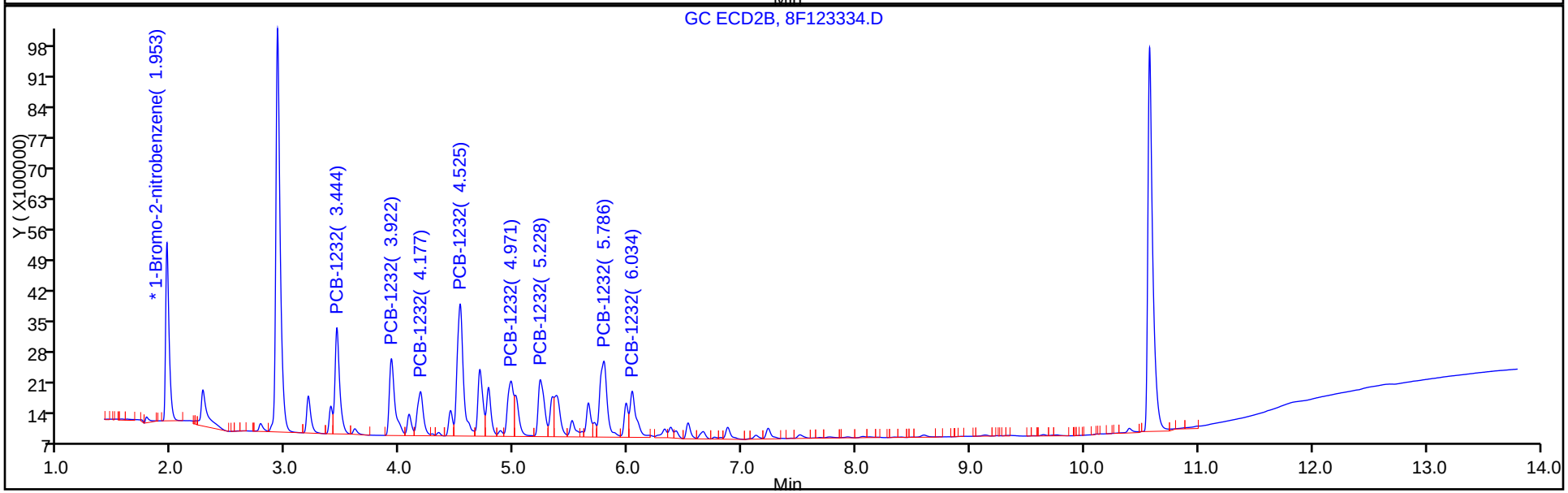
Report Date: 14-Dec-2017 17:55:32 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D

Injection Date:	14-Dec-2017 15:33:10	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1232			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

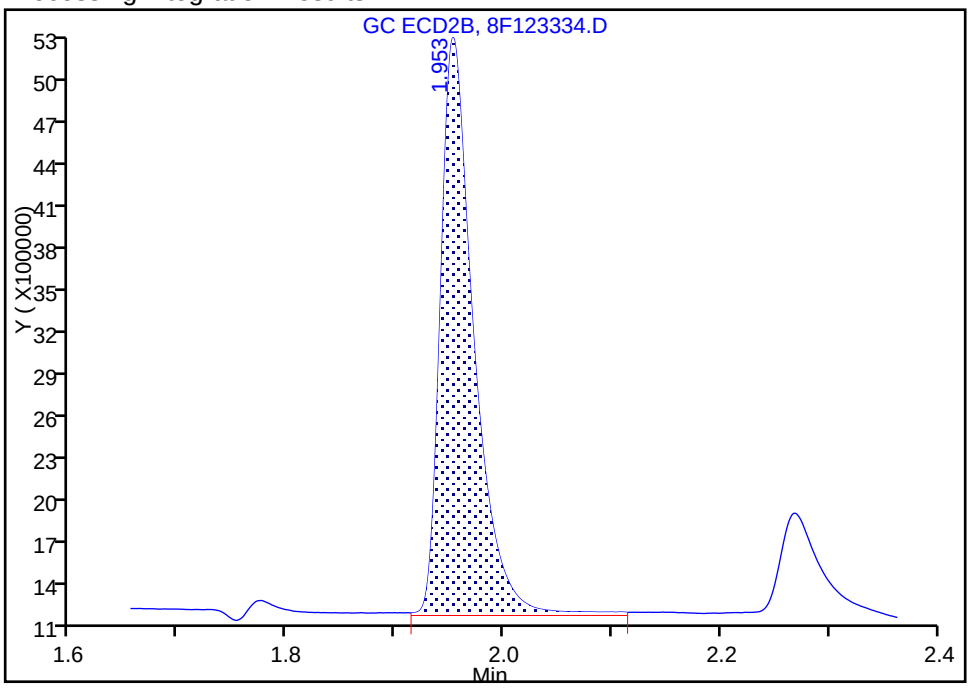
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D
Injection Date: 14-Dec-2017 15:33:10 Instrument ID: CPESTGC8
Lims ID: IC 1232
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

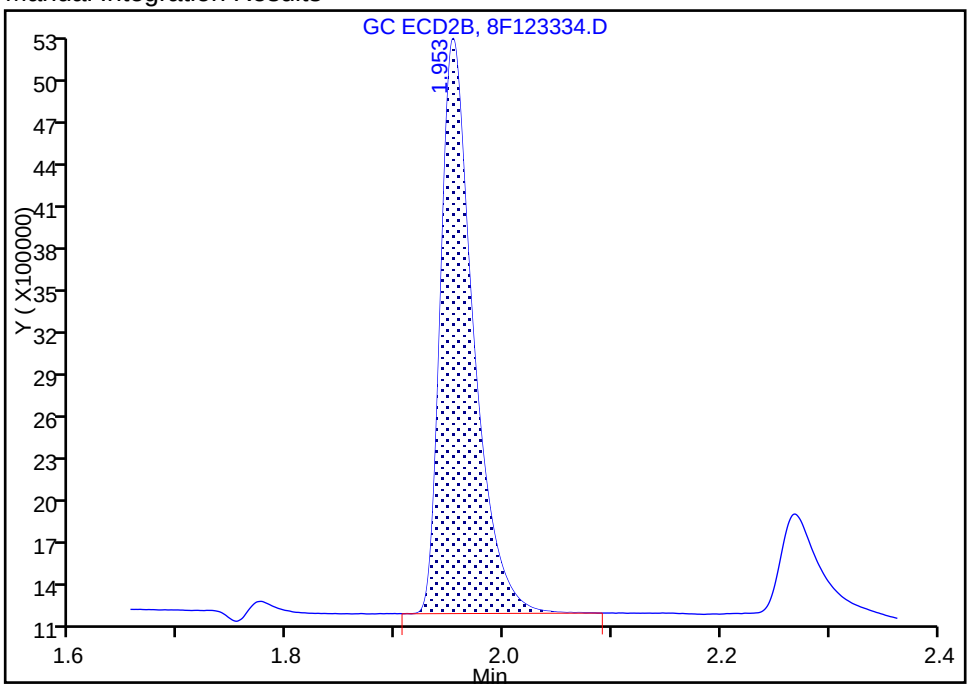
Processing Integration Results

RT: 1.95
Area: 8797718
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8544249
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 16:36:48
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 14-Dec-2017 17:55:32 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123334.D

Injection Date: 14-Dec-2017 15:33:10 Instrument ID: CPESTGC8

Lims ID: IC 1232

Client ID:

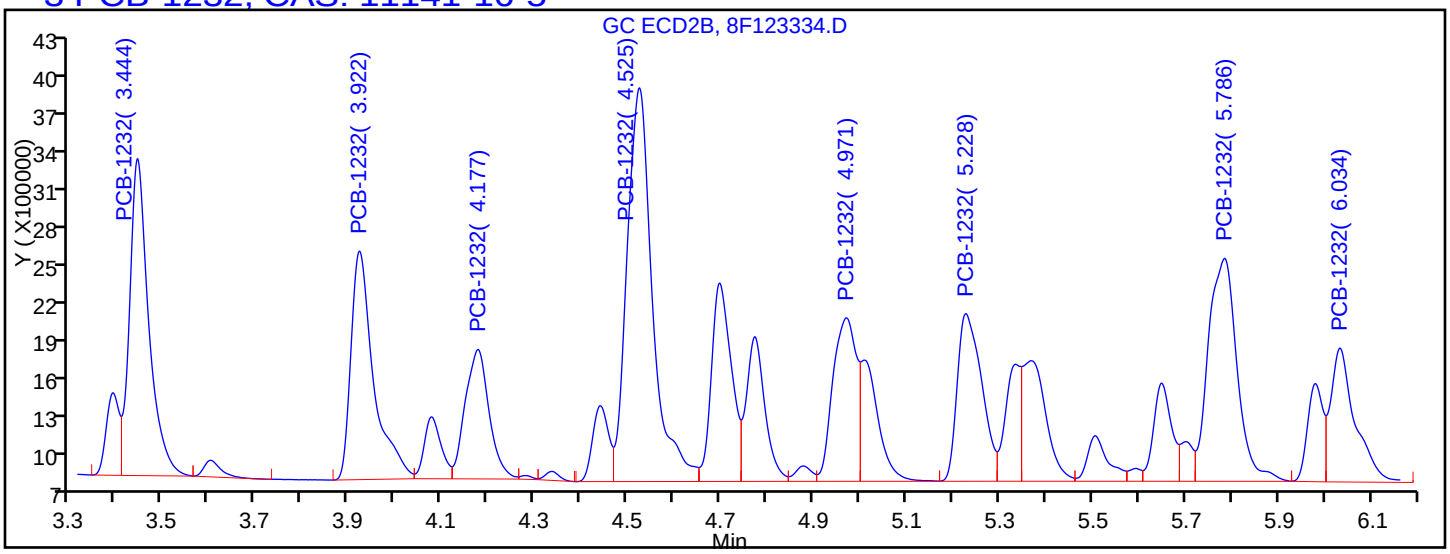
Operator ID: ALS Bottle#: 16 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

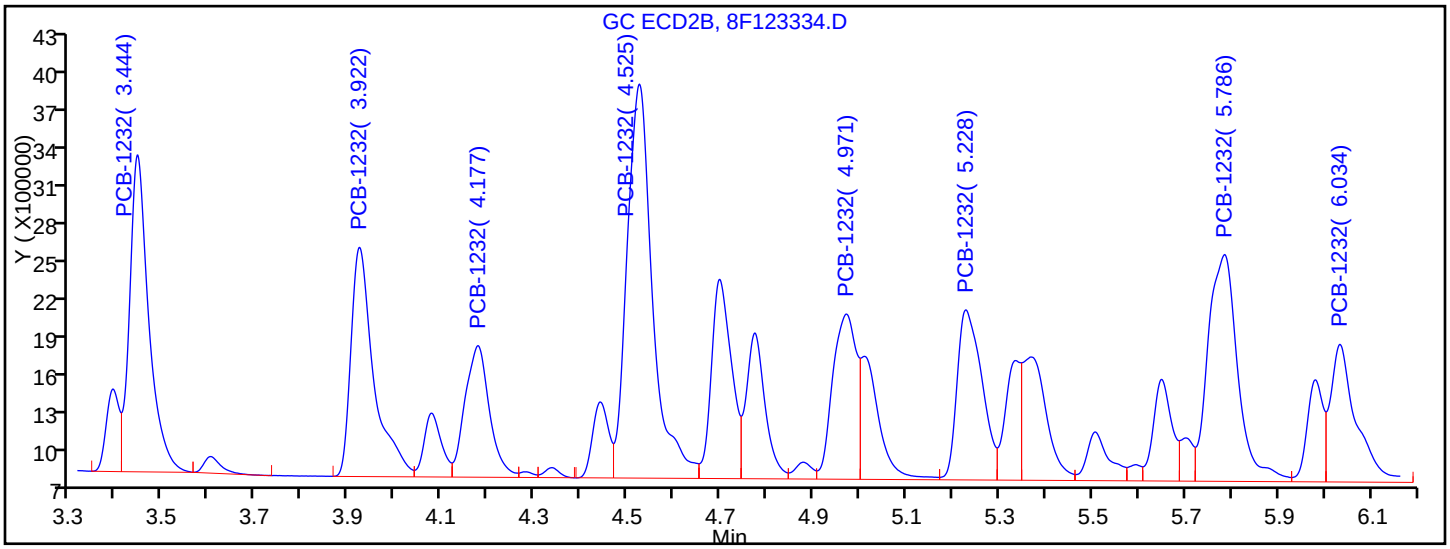
Column: Detector GC ECD2B

3 PCB-1232, CAS: 11141-16-5



Processing Integration Results

3.444	Response = 6973978
3.922	Response = 5952545
4.177	Response = 3550714
4.525	Response = 11550129
4.971	Response = 4448208
5.228	Response = 4722672
5.786	Response = 7382980
6.034	Response = 3758838



Manual Integration Results

3.444	Response = 6973978	
3.922	Response = 6031395	M
4.177	Response = 3685833	M
4.525	Response = 11585616	M
4.971	Response = 4519325	M
5.228	Response = 4860824	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:50 Calibration End Date: 12/14/2017 15:50 Calibration ID: 65426

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/13	8F123335.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0161					Ave		0.0161						20.0			0.9900
PCB-1242 Peak 2	0.0337					Ave		0.0337						20.0			0.9900
PCB-1242 Peak 3	0.0592					Ave		0.0592						20.0			0.9900
PCB-1242 Peak 4	0.0256					Ave		0.0256						20.0			0.9900
PCB-1242 Peak 5	0.0194					Ave		0.0194						20.0			0.9900
PCB-1242 Peak 6	0.0221					Ave		0.0221						20.0			0.9900
PCB-1242 Peak 7	0.0185					Ave		0.0185						20.0			0.9900
PCB-1242 Peak 8	0.0220					Ave		0.0220						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:50 Calibration End Date: 12/14/2017 15:50 Calibration ID: 65426

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/13	8F123335.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	3176142					1000				
PCB-1242 Peak 2	BNB	Ave	6667429					1000				
PCB-1242 Peak 3	BNB	Ave	11704456					1000				
PCB-1242 Peak 4	BNB	Ave	5070487					1000				
PCB-1242 Peak 5	BNB	Ave	3841945					1000				
PCB-1242 Peak 6	BNB	Ave	4377887					1000				
PCB-1242 Peak 7	BNB	Ave	3657634					1000				
PCB-1242 Peak 8	BNB	Ave	4342011					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123335.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:50:34 ALS Bottle#: 17 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-013
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:34 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:37:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.314	2.314	0.000	3954774	20.0	20.0	
2	1.953	1.953	0.000	8971770	20.0	20.0	
						RPD = 0.00	
4 PCB-1242							M
1	4.367	4.367	0.000	3176142	1000.0	1000.0	
1	4.949	4.949	0.000	6667429	1000.0	1000.0	
1	5.569	5.569	0.000	11704456	1000.0	1000.0	
1	5.750	5.750	0.000	5070487	1000.0	1000.0	
1	6.375	6.375	0.000	3841945	1000.0	1000.0	
1	6.534	6.534	0.000	4377887	1000.0	1000.0	
1	6.877	6.877	0.000	3657634	1000.0	1000.0	
1	6.934	6.934	0.000	4342011	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	3.444	3.444	0.000	5091855	1000.0	1000.0	
2	3.922	3.922	0.000	10228957	1000.0	1000.0	M
2	4.177	4.177	0.000	6673120	1000.0	1000.0	M
2	4.525	4.525	0.000	21157563	1000.0	1000.0	M
2	4.698	4.698	0.000	8391405	1000.0	1000.0	M
2	5.229	5.229	0.000	9510329	1000.0	1000.0	M
2	5.785	5.785	0.000	15571374	1000.0	1000.0	M
2	6.034	6.034	0.000	8225023	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

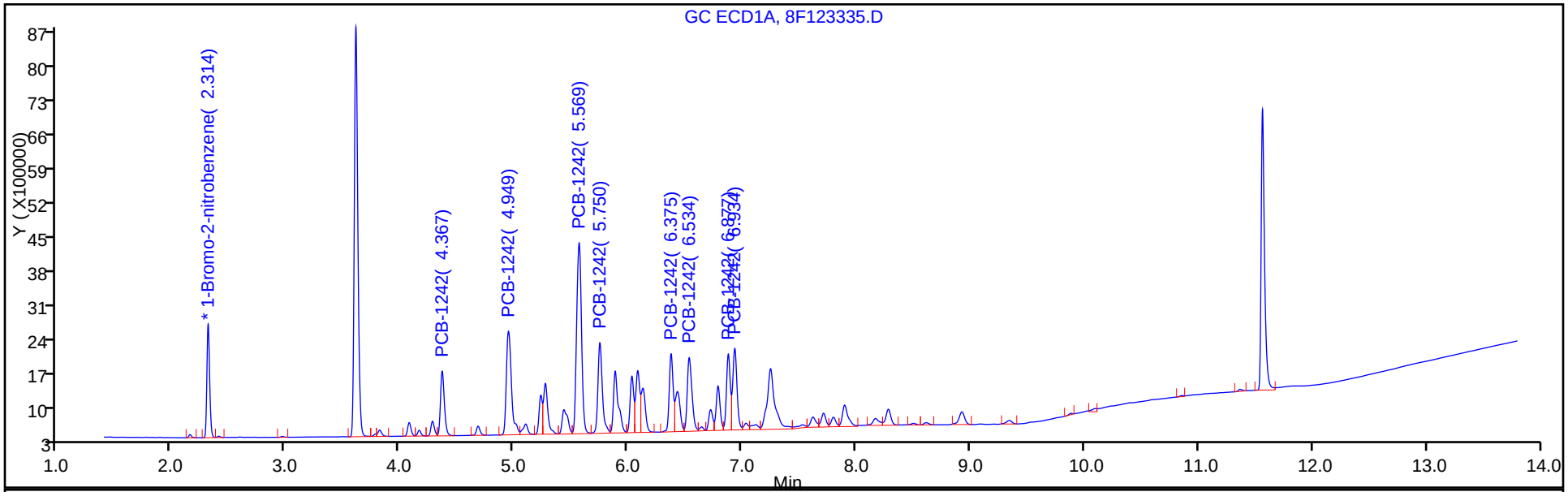
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

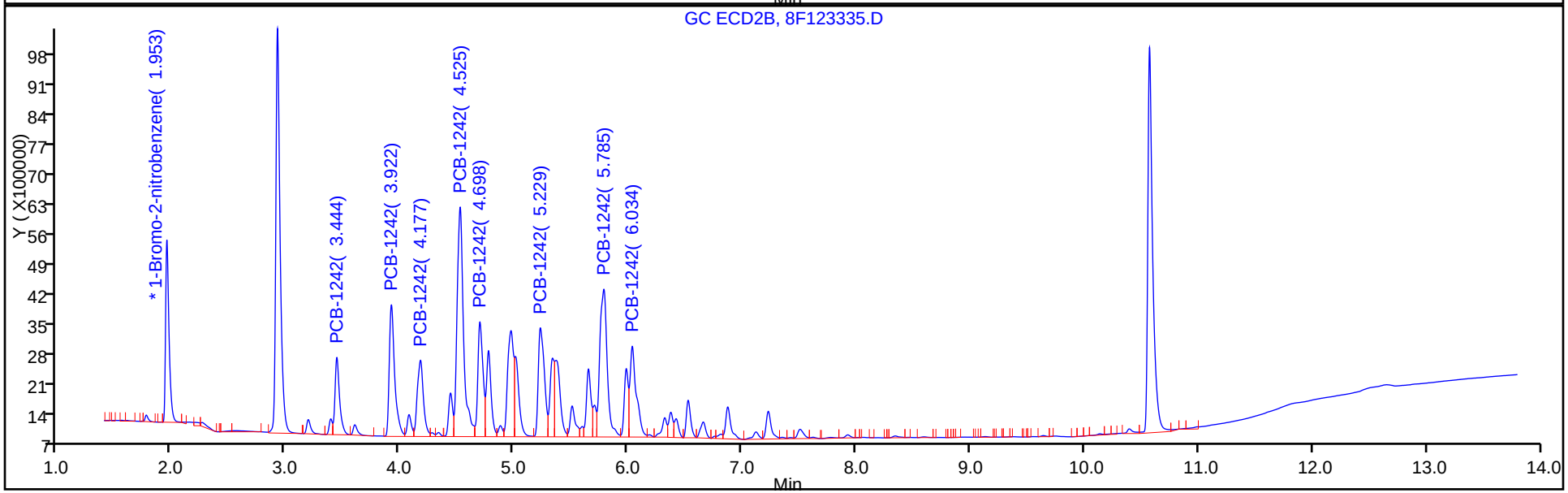
Report Date: 14-Dec-2017 17:55:35 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123335.D

Injection Date:	14-Dec-2017 15:50:34	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:50 Calibration End Date: 12/14/2017 15:50 Calibration ID: 65427

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/13	8F123335.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0114					Ave		0.0114						20.0			0.9900
PCB-1242 Peak 2	0.0228					Ave		0.0228						20.0			0.9900
PCB-1242 Peak 3	0.0149					Ave		0.0149						20.0			0.9900
PCB-1242 Peak 4	0.0472					Ave		0.0472						20.0			0.9900
PCB-1242 Peak 5	0.0187					Ave		0.0187						20.0			0.9900
PCB-1242 Peak 6	0.0212					Ave		0.0212						20.0			0.9900
PCB-1242 Peak 7	0.0347					Ave		0.0347						20.0			0.9900
PCB-1242 Peak 8	0.0183					Ave		0.0183						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:50 Calibration End Date: 12/14/2017 15:50 Calibration ID: 65427

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/13	8F123335.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	5091855					1000				
PCB-1242 Peak 2	BNB	Ave	10228957					1000				
PCB-1242 Peak 3	BNB	Ave	6673120					1000				
PCB-1242 Peak 4	BNB	Ave	21157563					1000				
PCB-1242 Peak 5	BNB	Ave	8391405					1000				
PCB-1242 Peak 6	BNB	Ave	9510329					1000				
PCB-1242 Peak 7	BNB	Ave	15571374					1000				
PCB-1242 Peak 8	BNB	Ave	8225023					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123335.D
Lims ID: IC 1242
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 15:50:34 ALS Bottle#: 17 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-013
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub4

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 14-Dec-2017 17:55:34 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK003

First Level Reviewer: patelji Date: 14-Dec-2017 16:37:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.314	2.314	0.000	3954774	20.0	20.0	
2	1.953	1.953	0.000	8971770	20.0	20.0	
						RPD = 0.00	
4 PCB-1242							M
1	4.367	4.367	0.000	3176142	1000.0	1000.0	
1	4.949	4.949	0.000	6667429	1000.0	1000.0	
1	5.569	5.569	0.000	11704456	1000.0	1000.0	
1	5.750	5.750	0.000	5070487	1000.0	1000.0	
1	6.375	6.375	0.000	3841945	1000.0	1000.0	
1	6.534	6.534	0.000	4377887	1000.0	1000.0	
1	6.877	6.877	0.000	3657634	1000.0	1000.0	
1	6.934	6.934	0.000	4342011	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	3.444	3.444	0.000	5091855	1000.0	1000.0	
2	3.922	3.922	0.000	10228957	1000.0	1000.0	M
2	4.177	4.177	0.000	6673120	1000.0	1000.0	M
2	4.525	4.525	0.000	21157563	1000.0	1000.0	M
2	4.698	4.698	0.000	8391405	1000.0	1000.0	M
2	5.229	5.229	0.000	9510329	1000.0	1000.0	M
2	5.785	5.785	0.000	15571374	1000.0	1000.0	M
2	6.034	6.034	0.000	8225023	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

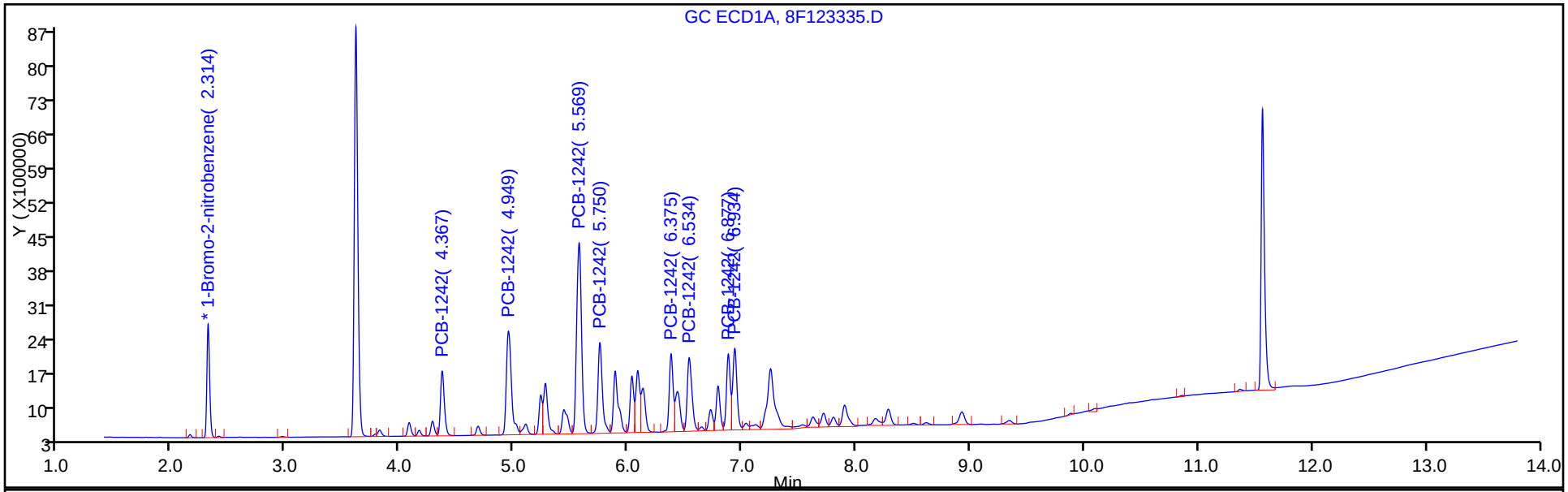
SG1242L3_00029	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

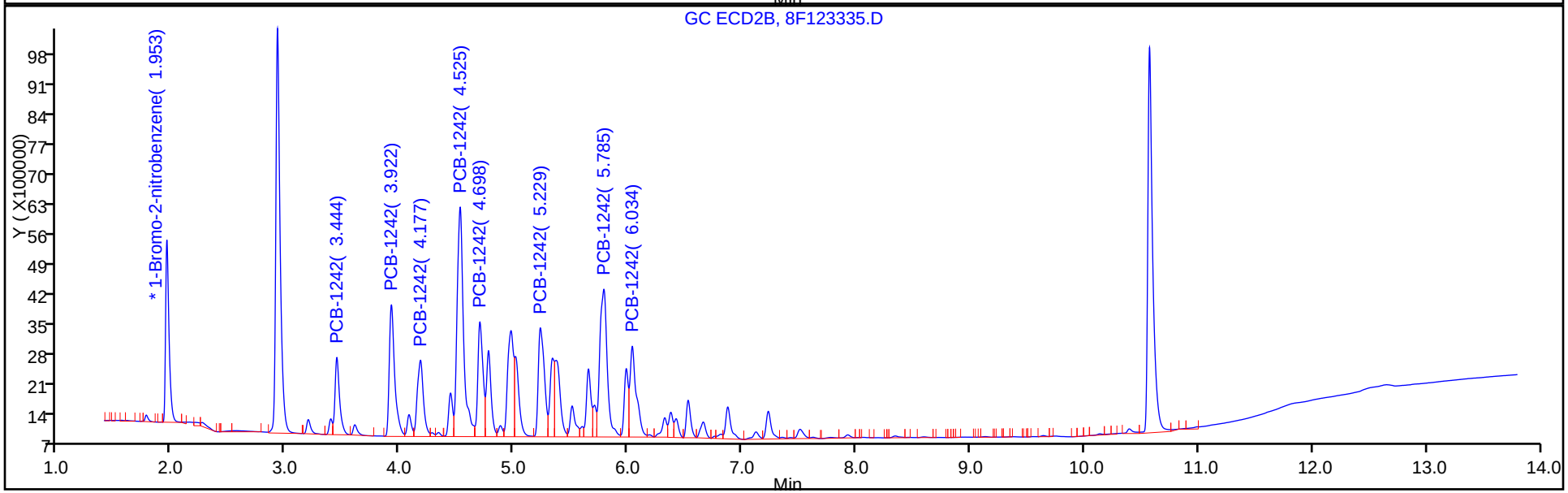
Report Date: 14-Dec-2017 17:55:36 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123335.D

Injection Date:	14-Dec-2017 15:50:34	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1242			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 14-Dec-2017 17:55:36 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123335.D

Injection Date: 14-Dec-2017 15:50:34 Instrument ID: CPESTGC8

Lims ID: IC 1242

Client ID:

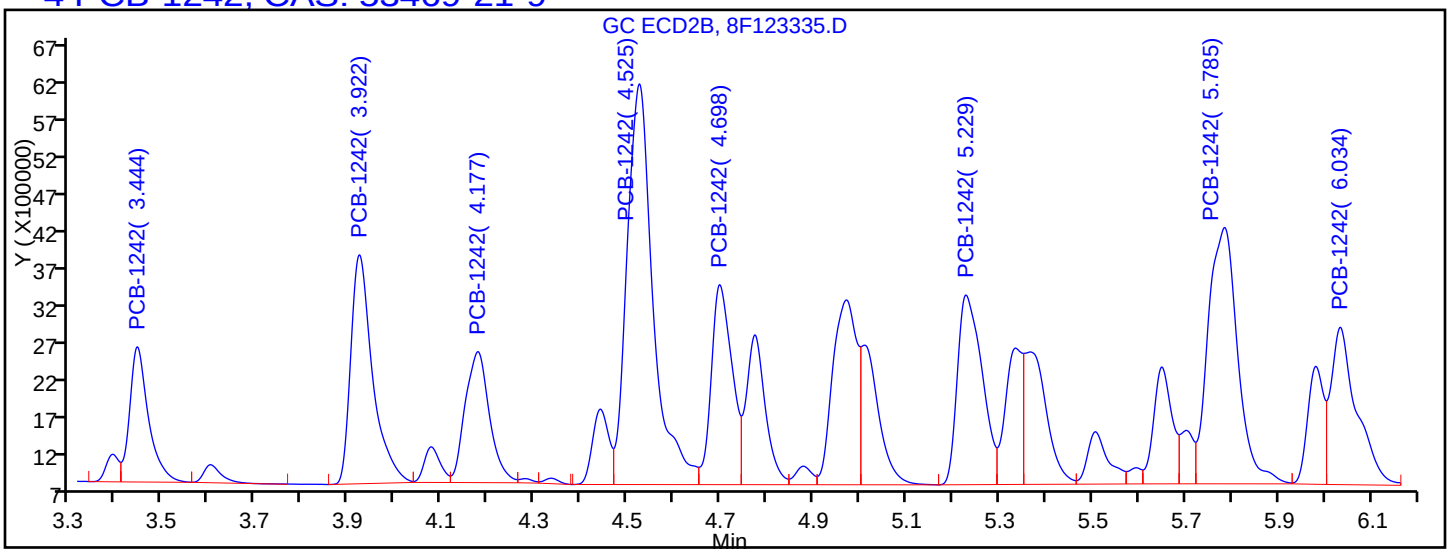
Operator ID: ALS Bottle#: 17 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

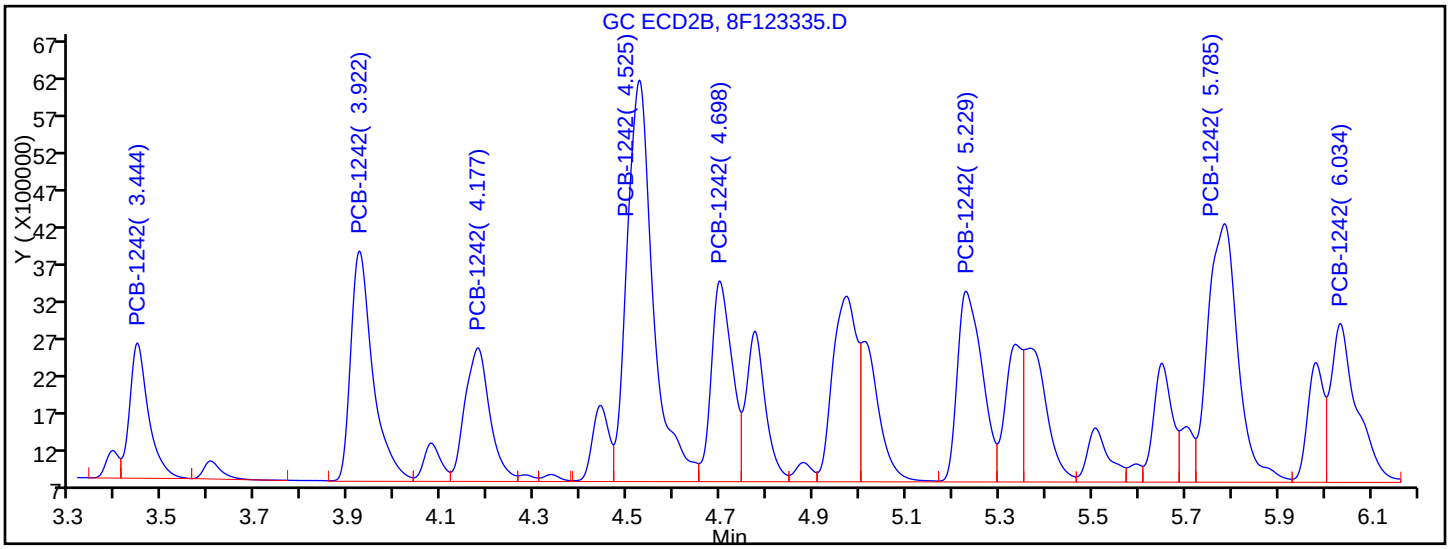
Column: Detector GC ECD2B

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.444	Response = 5091855
3.922	Response = 10002095
4.177	Response = 6380187
4.525	Response = 21044323
4.698	Response = 8334172
5.229	Response = 9410250
5.785	Response = 15214427
6.034	Response = 8068961



Manual Integration Results

3.444	Response = 5091855	
3.922	Response = 10228957	M
4.177	Response = 6673120	M
4.525	Response = 21157563	M
4.698	Response = 8391405	M
5.229	Response = 9510329	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 16:42 Calibration End Date: 12/14/2017 16:42 Calibration ID: 65739

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/16	8F123338.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0339					Ave		0.0339						20.0			0.9900
PCB-1262 Peak 2	0.0388					Ave		0.0388						20.0			0.9900
PCB-1262 Peak 3	0.0516					Ave		0.0516						20.0			0.9900
PCB-1262 Peak 4	0.0439					Ave		0.0439						20.0			0.9900
PCB-1262 Peak 5	0.0843					Ave		0.0843						20.0			0.9900
PCB-1262 Peak 6	0.0143					Ave		0.0143						20.0			0.9900
PCB-1262 Peak 7	0.0326					Ave		0.0326						20.0			0.9900
PCB-1262 Peak 8	0.0118					Ave		0.0118						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 16:42 Calibration End Date: 12/14/2017 16:42 Calibration ID: 65739

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/16	8F123338.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	6407896					1000				
PCB-1262 Peak 2	BNB	Ave	7335889					1000				
PCB-1262 Peak 3	BNB	Ave	9757780					1000				
PCB-1262 Peak 4	BNB	Ave	8286036					1000				
PCB-1262 Peak 5	BNB	Ave	15928902					1000				
PCB-1262 Peak 6	BNB	Ave	2693981					1000				
PCB-1262 Peak 7	BNB	Ave	6165480					1000				
PCB-1262 Peak 8	BNB	Ave	2226479					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 16:42:47 ALS Bottle#: 20 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-016
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:19:07 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:21:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.315	0.000	3778798	20.0	20.0	a
2	1.952	1.952	0.000	8905957	20.0	20.0	
						RPD = 0.00	
9 PCB-1262							M
1	8.226	8.226	0.000	6407896	1000.0	1000.0	
1	8.611	8.611	0.000	7335889	1000.0	1000.0	
1	9.517	9.517	0.000	9757780	1000.0	1000.0	M
1	9.925	9.925	0.000	8286036	1000.0	1000.0	M
1	10.221	10.221	0.000	15928902	1000.0	1000.0	M
1	10.959	10.959	0.000	2693981	1000.0	1000.0	M
1	11.101	11.101	0.000	6165480	1000.0	1000.0	M
1	11.363	11.363	0.000	2226479	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	6.756	6.756	0.000	12656826	1000.0	1000.0	
2	8.058	8.058	0.000	19007447	1000.0	1000.0	
2	8.594	8.594	0.000	42594201	1000.0	1000.0	
2	9.134	9.134	0.000	14355461	1000.0	1000.0	M
2	9.322	9.322	0.000	20133433	1000.0	1000.0	M
2	9.766	9.766	0.000	6611711	1000.0	1000.0	M
2	10.097	10.097	0.000	13792831	1000.0	1000.0	
2	10.394	10.394	0.000	5336178	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

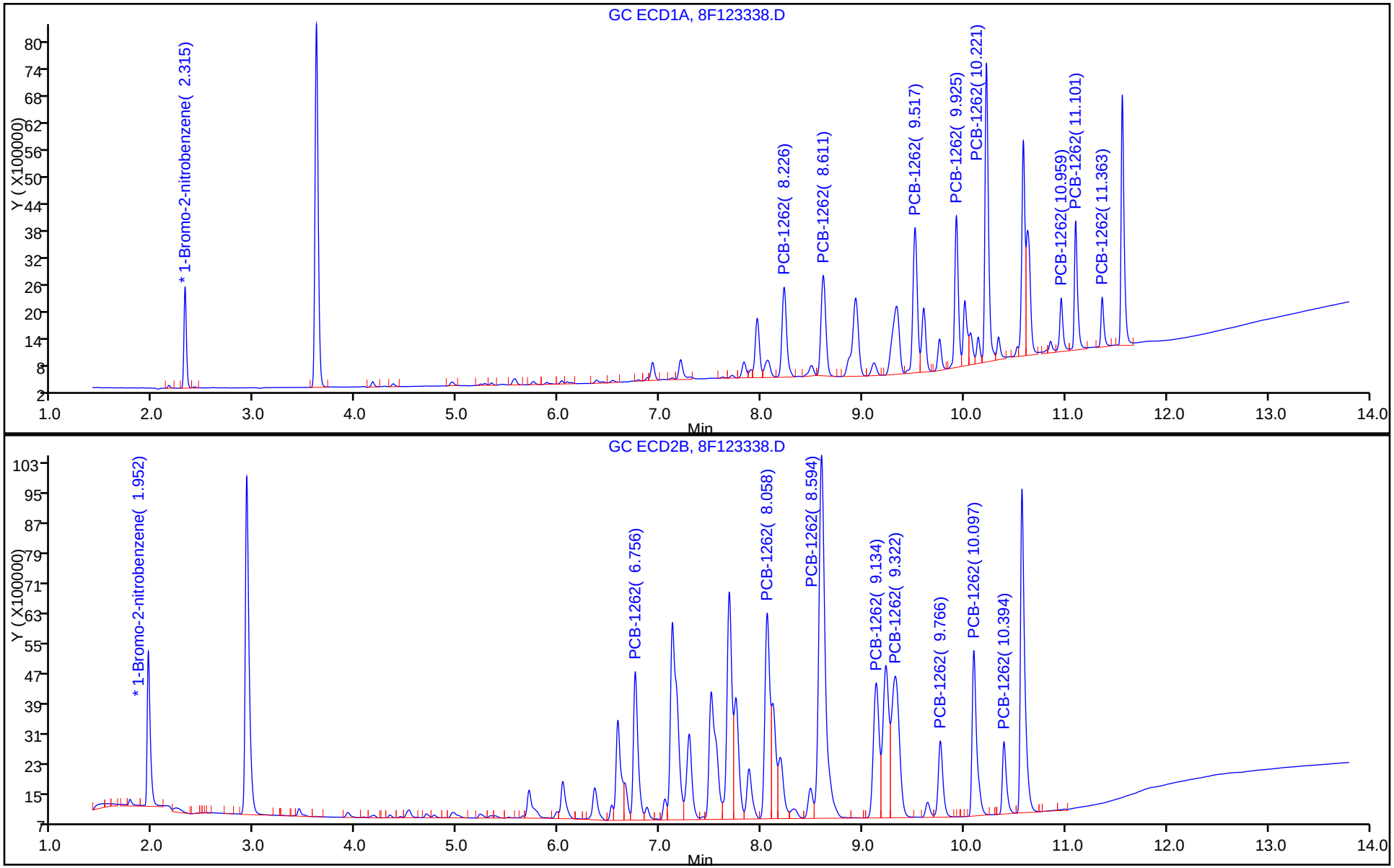
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 23-Dec-2017 14:19:09 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D

Injection Date:	14-Dec-2017 16:42:47	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 23-Dec-2017 14:19:09 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D

Injection Date: 14-Dec-2017 16:42:47 Instrument ID: CPESTGC8

Lims ID: IC 1262

Client ID:

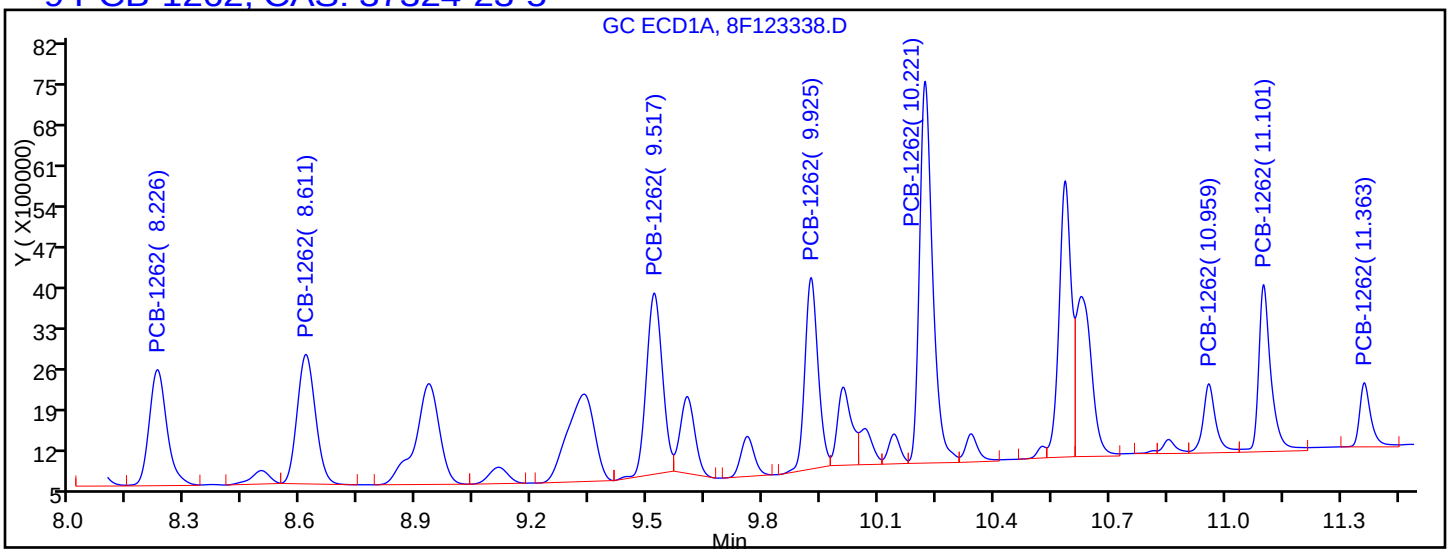
Operator ID: ALS Bottle#: 20 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

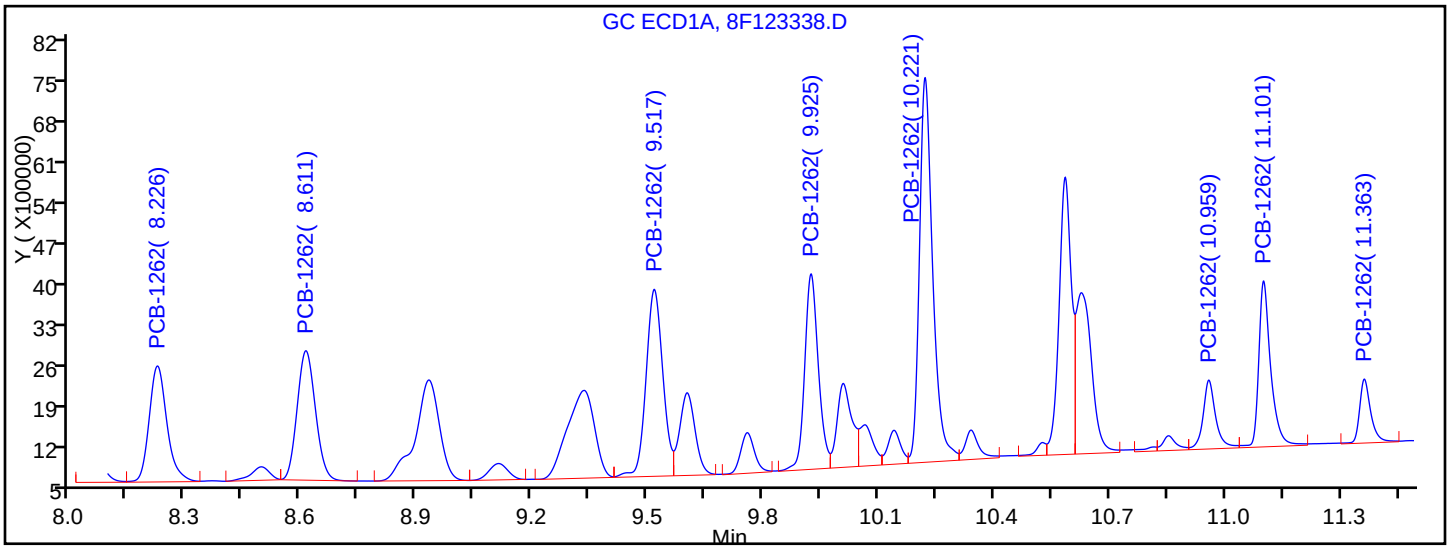
Column: Detector GC ECD1A

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

8.226	Response = 6407896
8.611	Response = 7335889
9.517	Response = 9047301
9.925	Response = 7831711
10.221	Response = 15576259
10.959	Response = 2729820
11.101	Response = 6378427
11.363	Response = 2271231



Manual Integration Results

8.226	Response = 6407896	
8.611	Response = 7335889	
9.517	Response = 9757780	M
9.925	Response = 8286036	M
10.221	Response = 15928902	M
10.959	Response = 2693981	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 16:42 Calibration End Date: 12/14/2017 16:42 Calibration ID: 65740

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/16	8F123338.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0284					Ave		0.0284						20.0			0.9900
PCB-1262 Peak 2	0.0427					Ave		0.0427						20.0			0.9900
PCB-1262 Peak 3	0.0957					Ave		0.0957						20.0			0.9900
PCB-1262 Peak 4	0.0322					Ave		0.0322						20.0			0.9900
PCB-1262 Peak 5	0.0452					Ave		0.0452						20.0			0.9900
PCB-1262 Peak 6	0.0148					Ave		0.0148						20.0			0.9900
PCB-1262 Peak 7	0.0310					Ave		0.0310						20.0			0.9900
PCB-1262 Peak 8	0.0120					Ave		0.0120						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 16:42 Calibration End Date: 12/14/2017 16:42 Calibration ID: 65740

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/16	8F123338.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	12656826					1000				
PCB-1262 Peak 2	BNB	Ave	19007447					1000				
PCB-1262 Peak 3	BNB	Ave	42594201					1000				
PCB-1262 Peak 4	BNB	Ave	14355461					1000				
PCB-1262 Peak 5	BNB	Ave	20133433					1000				
PCB-1262 Peak 6	BNB	Ave	6611711					1000				
PCB-1262 Peak 7	BNB	Ave	13792831					1000				
PCB-1262 Peak 8	BNB	Ave	5336178					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D
Lims ID: IC 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 16:42:47 ALS Bottle#: 20 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-016
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:19:07 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:21:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.315	0.000	3778798	20.0	20.0	a
2	1.952	1.952	0.000	8905957	20.0	20.0	
						RPD = 0.00	
9 PCB-1262							M
1	8.226	8.226	0.000	6407896	1000.0	1000.0	
1	8.611	8.611	0.000	7335889	1000.0	1000.0	
1	9.517	9.517	0.000	9757780	1000.0	1000.0	M
1	9.925	9.925	0.000	8286036	1000.0	1000.0	M
1	10.221	10.221	0.000	15928902	1000.0	1000.0	M
1	10.959	10.959	0.000	2693981	1000.0	1000.0	M
1	11.101	11.101	0.000	6165480	1000.0	1000.0	M
1	11.363	11.363	0.000	2226479	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	6.756	6.756	0.000	12656826	1000.0	1000.0	
2	8.058	8.058	0.000	19007447	1000.0	1000.0	
2	8.594	8.594	0.000	42594201	1000.0	1000.0	
2	9.134	9.134	0.000	14355461	1000.0	1000.0	M
2	9.322	9.322	0.000	20133433	1000.0	1000.0	M
2	9.766	9.766	0.000	6611711	1000.0	1000.0	M
2	10.097	10.097	0.000	13792831	1000.0	1000.0	
2	10.394	10.394	0.000	5336178	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

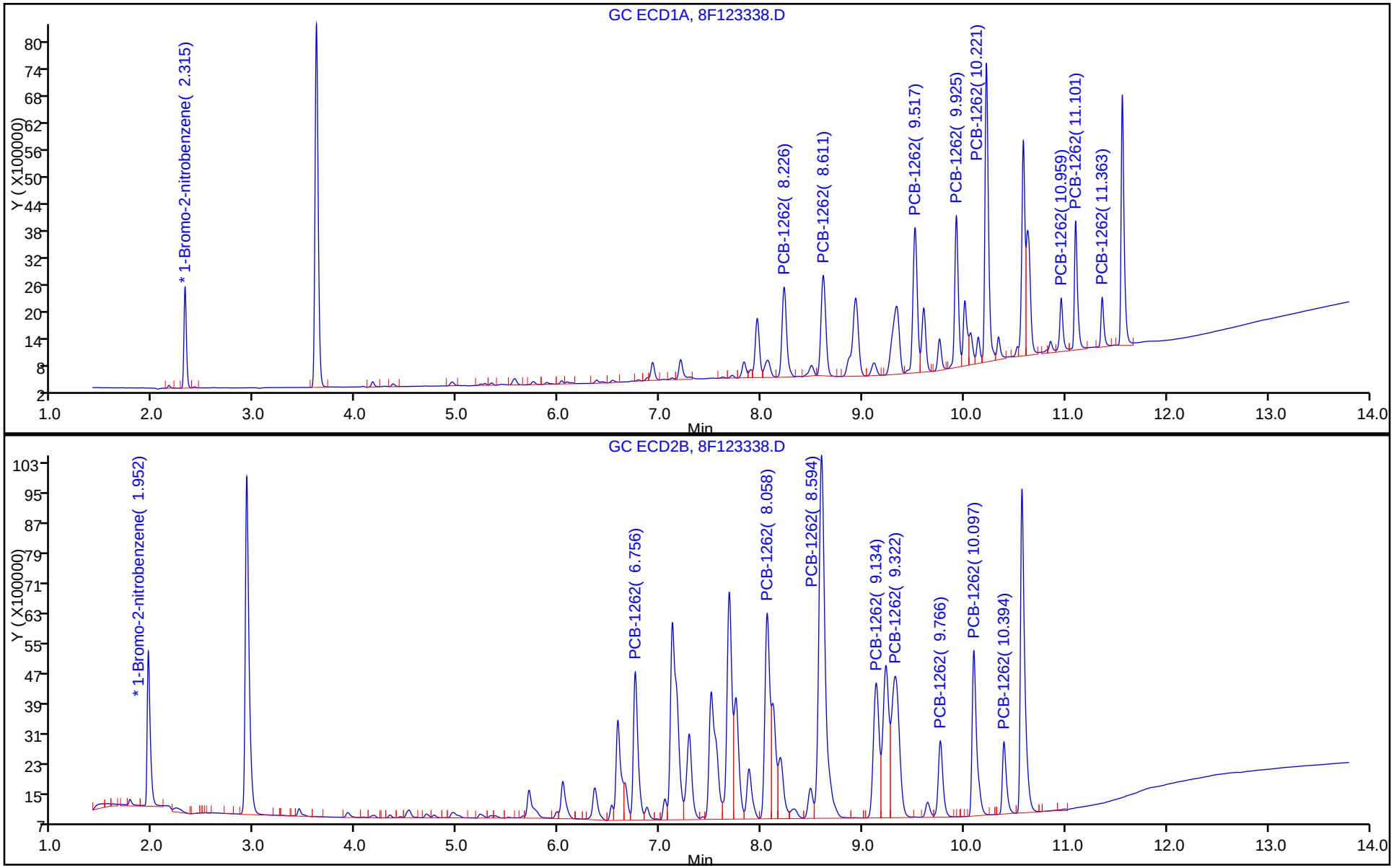
SG1262L3_00026	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 23-Dec-2017 14:19:09 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D

Injection Date:	14-Dec-2017 16:42:47	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1262			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



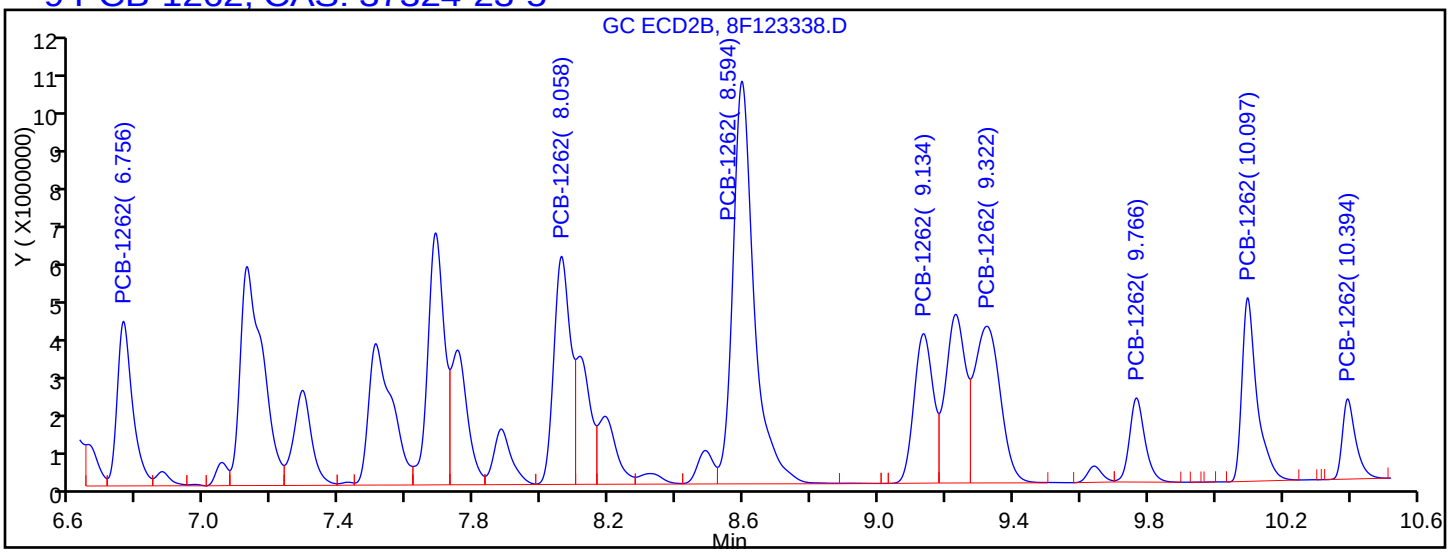
Report Date: 23-Dec-2017 14:19:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123338.D

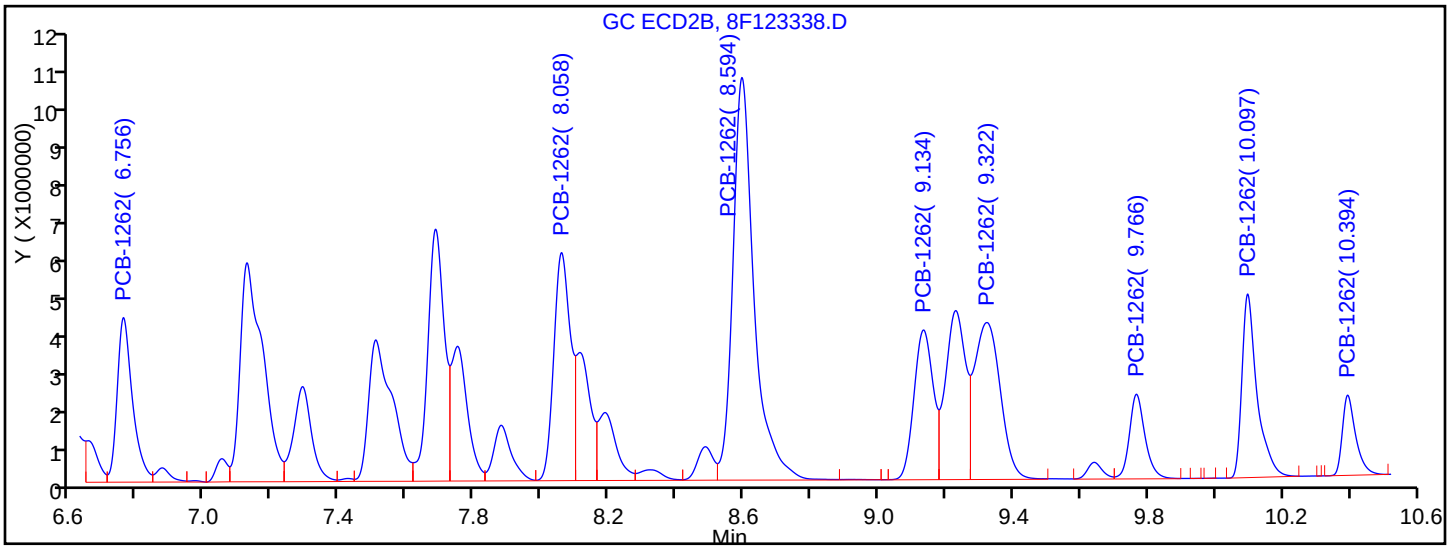
Injection Date:	14-Dec-2017 16:42:47	Instrument ID:	CPESTGC8		
Lims ID:	IC 1262				
Client ID:					
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

6.756	Response = 12656826
8.058	Response = 19007447
8.594	Response = 42594201
9.134	Response = 14292473
9.322	Response = 20052868
9.766	Response = 6466638
10.097	Response = 13792831
10.394	Response = 5336178



Manual Integration Results

6.756	Response = 12656826	
8.058	Response = 19007447	
8.594	Response = 42594201	
9.134	Response = 14355461	M
9.322	Response = 20133433	M
9.766	Response = 6611711	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:00 Calibration End Date: 12/14/2017 17:00 Calibration ID: 65721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/17	8F123339.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0208					Ave		0.0208						20.0			0.9900
PCB-1268 Peak 2	0.0255					Ave		0.0255						20.0			0.9900
PCB-1268 Peak 3	0.0836					Ave		0.0836						20.0			0.9900
PCB-1268 Peak 4	0.1040					Ave		0.1040						20.0			0.9900
PCB-1268 Peak 5	0.0778					Ave		0.0778						20.0			0.9900
PCB-1268 Peak 6	0.0235					Ave		0.0235						20.0			0.9900
PCB-1268 Peak 7	0.0344					Ave		0.0344						20.0			0.9900
PCB-1268 Peak 8	0.2286					Ave		0.2286						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:00 Calibration End Date: 12/14/2017 17:00 Calibration ID: 65721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/17	8F123339.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	3862251					1000				
PCB-1268 Peak 2	BNB	Ave	4746708					1000				
PCB-1268 Peak 3	BNB	Ave	15542831					1000				
PCB-1268 Peak 4	BNB	Ave	19335694					1000				
PCB-1268 Peak 5	BNB	Ave	14462379					1000				
PCB-1268 Peak 6	BNB	Ave	4369061					1000				
PCB-1268 Peak 7	BNB	Ave	6405491					1000				
PCB-1268 Peak 8	BNB	Ave	42508412					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123339.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:00:11 ALS Bottle#: 21 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-017
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:08:03 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:21:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.315	0.000	3718953	20.0	20.0	a
2	1.953	1.953	0.000	8587177	20.0	20.0	
						RPD = 0.00	
10 PCB-1268							M
1	9.516	9.516	0.000	3862251	1000.0	1000.0	
1	9.927	9.927	0.000	4746708	1000.0	1000.0	
1	10.581	10.581	0.000	15542831	1000.0	1000.0	M
1	10.622	10.622	0.000	19335694	1000.0	1000.0	M
1	10.851	10.851	0.000	14462379	1000.0	1000.0	M
1	10.936	10.936	0.000	4369061	1000.0	1000.0	M
1	11.097	11.097	0.000	6405491	1000.0	1000.0	M
1	11.357	11.357	0.000	42508412	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	7.684	7.684	0.000	9531567	1000.0	1000.0	
2	8.052	8.052	0.000	11783972	1000.0	1000.0	
2	9.229	9.229	0.000	41845392	1000.0	1000.0	
2	9.309	9.309	0.000	46798772	1000.0	1000.0	
2	9.641	9.641	0.000	33202172	1000.0	1000.0	
2	9.759	9.759	0.000	10740405	1000.0	1000.0	
2	10.096	10.096	0.000	14901187	1000.0	1000.0	
2	10.391	10.391	0.000	87835367	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

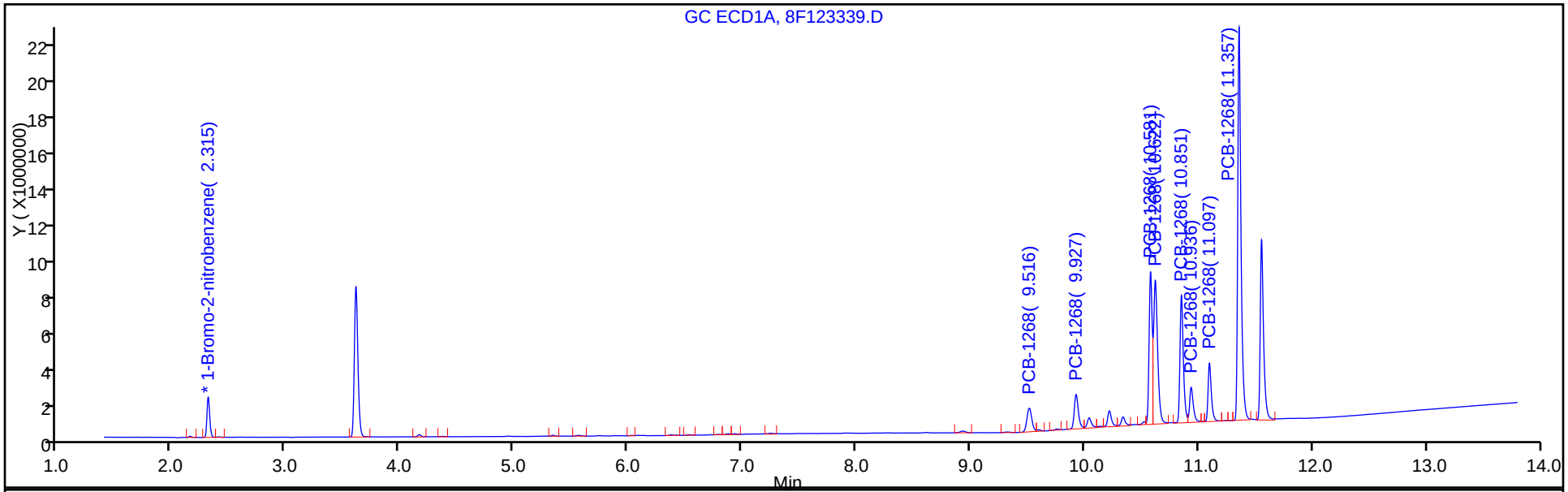
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

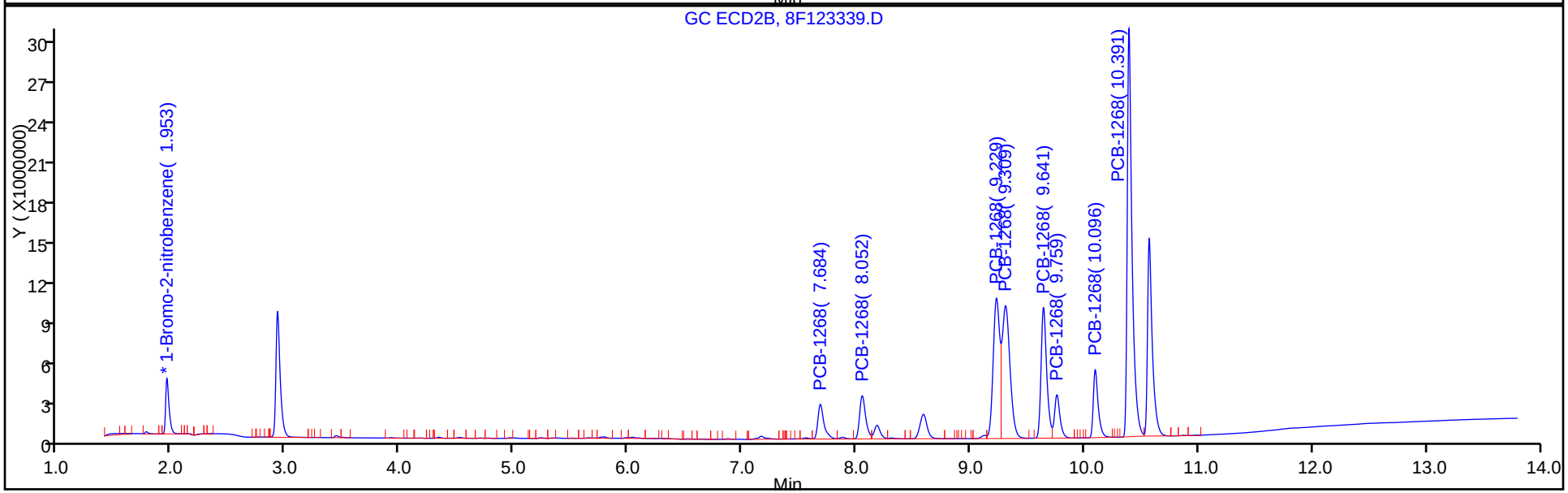
Report Date: 23-Dec-2017 14:08:03 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123339.D

Injection Date:	14-Dec-2017 17:00:11	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 23-Dec-2017 14:08:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123339.D

Injection Date: 14-Dec-2017 17:00:11 Instrument ID: CPESTGC8

Lims ID: IC 1268

Client ID:

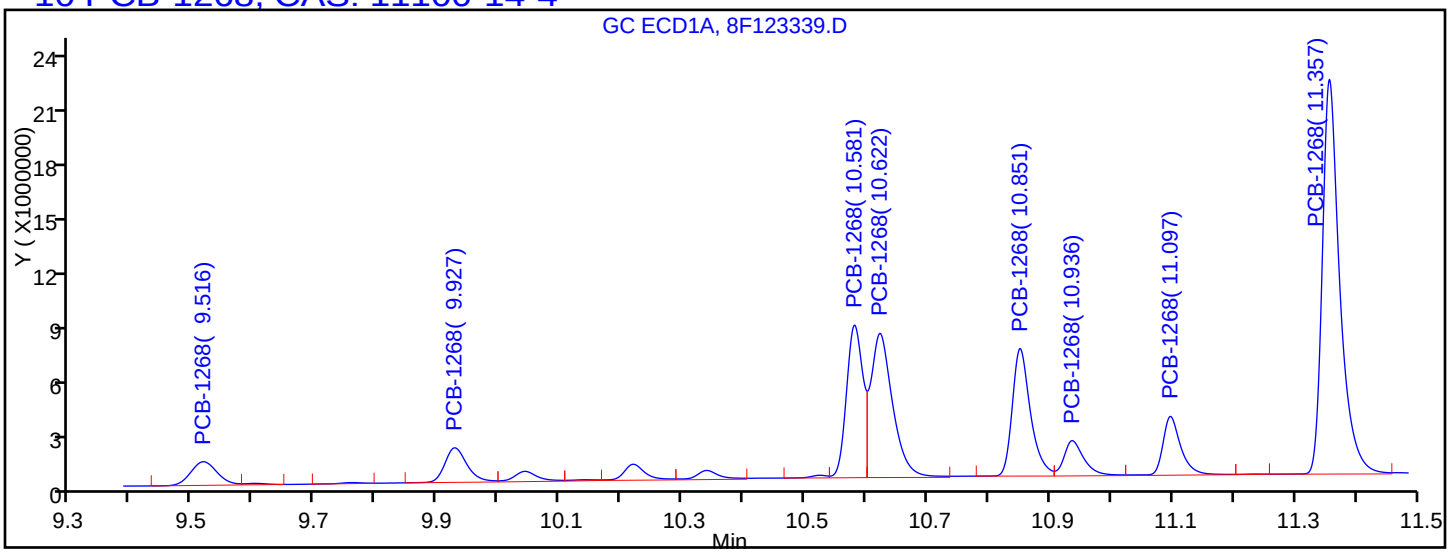
Operator ID: ALS Bottle#: 21 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

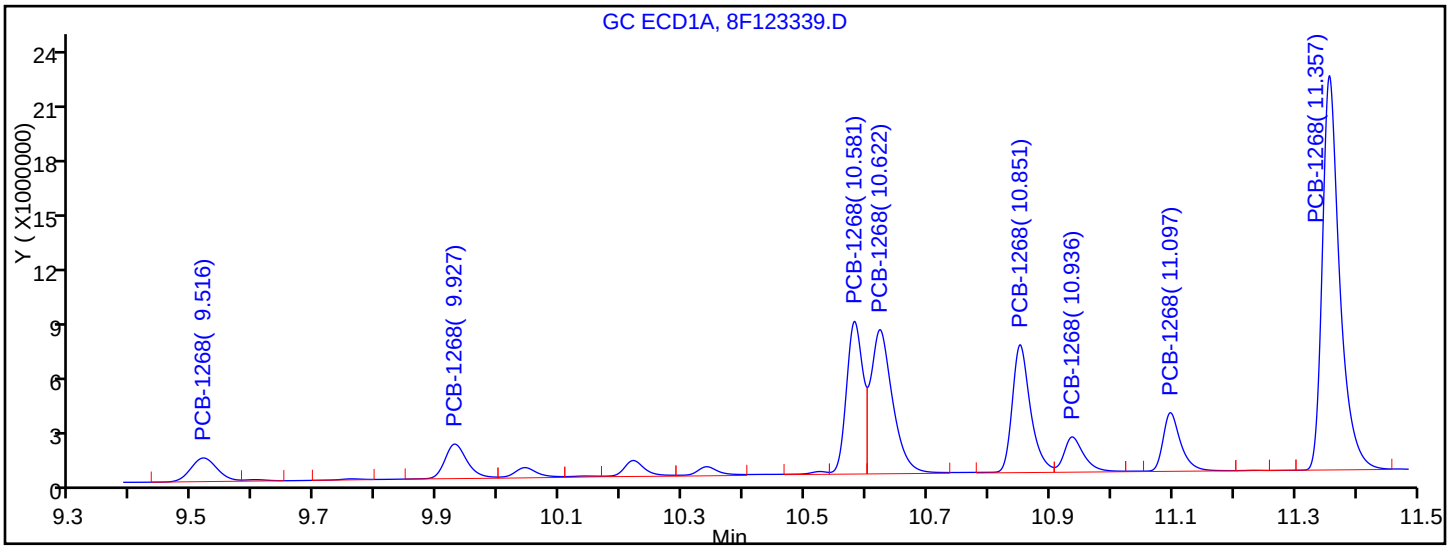
Column: Detector GC ECD1A

10 PCB-1268, CAS: 11100-14-4



Processing Integration Results

9.516	Response = 3862251
9.927	Response = 4746708
10.581	Response = 15520015
10.622	Response = 19396708
10.851	Response = 14330769
10.936	Response = 4385192
11.097	Response = 6532363
11.357	Response = 42754285



Manual Integration Results

9.516	Response = 3862251	
9.927	Response = 4746708	
10.581	Response = 15542831	M
10.622	Response = 19335694	M
10.851	Response = 14462379	M
10.936	Response = 4369061	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:00 Calibration End Date: 12/14/2017 17:00 Calibration ID: 65722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/17	8F123339.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0222					Ave		0.0222						20.0			0.9900
PCB-1268 Peak 2	0.0274					Ave		0.0274						20.0			0.9900
PCB-1268 Peak 3	0.0975					Ave		0.0975						20.0			0.9900
PCB-1268 Peak 4	0.1090					Ave		0.1090						20.0			0.9900
PCB-1268 Peak 5	0.0773					Ave		0.0773						20.0			0.9900
PCB-1268 Peak 6	0.0250					Ave		0.0250						20.0			0.9900
PCB-1268 Peak 7	0.0347					Ave		0.0347						20.0			0.9900
PCB-1268 Peak 8	0.2046					Ave		0.2046						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:00 Calibration End Date: 12/14/2017 17:00 Calibration ID: 65722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/17	8F123339.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	9531567					1000				
PCB-1268 Peak 2	BNB	Ave	11783972					1000				
PCB-1268 Peak 3	BNB	Ave	41845392					1000				
PCB-1268 Peak 4	BNB	Ave	46798772					1000				
PCB-1268 Peak 5	BNB	Ave	33202172					1000				
PCB-1268 Peak 6	BNB	Ave	10740405					1000				
PCB-1268 Peak 7	BNB	Ave	14901187					1000				
PCB-1268 Peak 8	BNB	Ave	87835367					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123339.D
Lims ID: IC 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:00:11 ALS Bottle#: 21 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-017
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub8

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:08:03 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:21:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	2.315	2.315	0.000	3718953	20.0	20.0	a
2	1.953	1.953	0.000	8587177	20.0	20.0	
						RPD = 0.00	
10 PCB-1268							M
1	9.516	9.516	0.000	3862251	1000.0	1000.0	
1	9.927	9.927	0.000	4746708	1000.0	1000.0	
1	10.581	10.581	0.000	15542831	1000.0	1000.0	M
1	10.622	10.622	0.000	19335694	1000.0	1000.0	M
1	10.851	10.851	0.000	14462379	1000.0	1000.0	M
1	10.936	10.936	0.000	4369061	1000.0	1000.0	M
1	11.097	11.097	0.000	6405491	1000.0	1000.0	M
1	11.357	11.357	0.000	42508412	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	7.684	7.684	0.000	9531567	1000.0	1000.0	
2	8.052	8.052	0.000	11783972	1000.0	1000.0	
2	9.229	9.229	0.000	41845392	1000.0	1000.0	
2	9.309	9.309	0.000	46798772	1000.0	1000.0	
2	9.641	9.641	0.000	33202172	1000.0	1000.0	
2	9.759	9.759	0.000	10740405	1000.0	1000.0	
2	10.096	10.096	0.000	14901187	1000.0	1000.0	
2	10.391	10.391	0.000	87835367	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

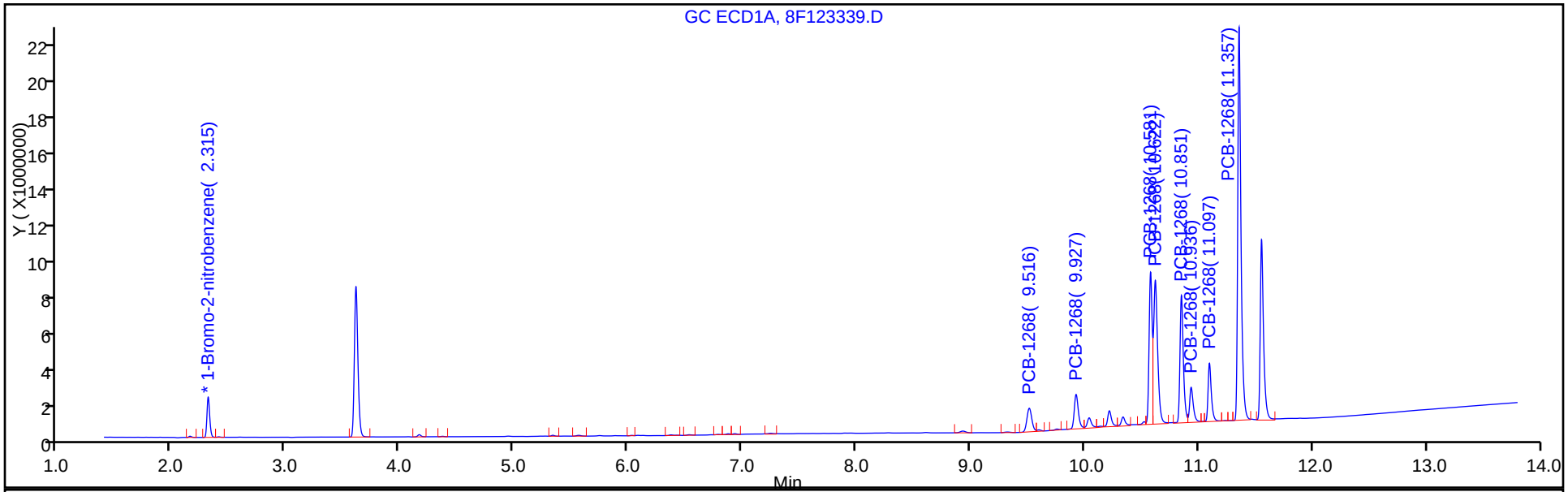
SG1268L3_00027	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

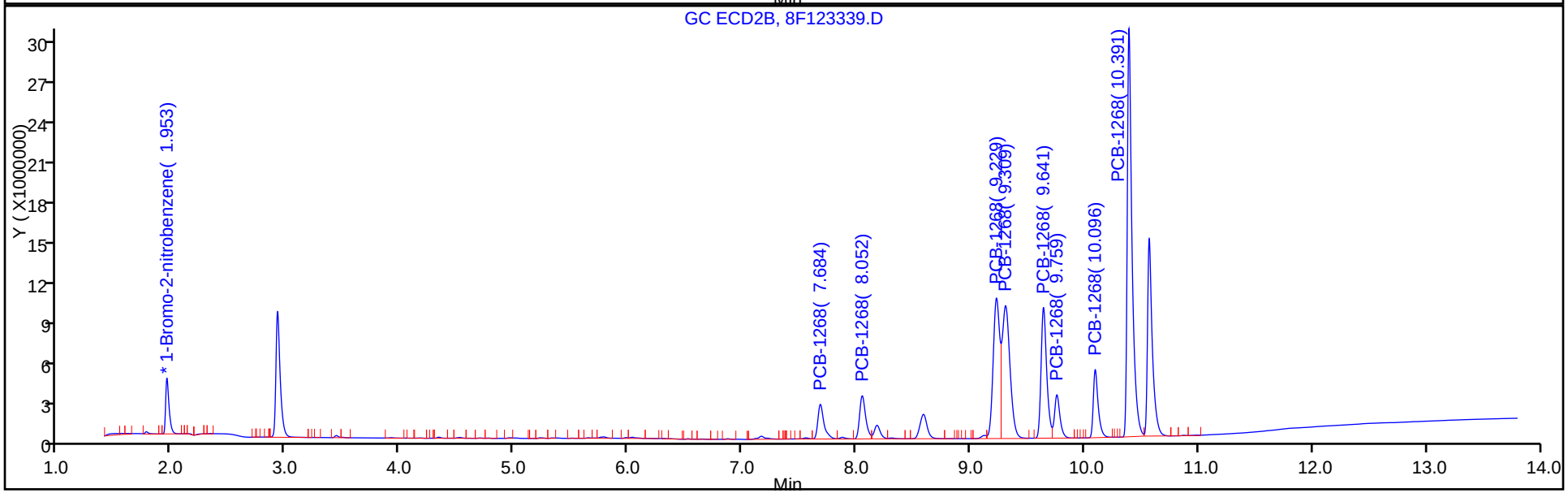
Report Date: 23-Dec-2017 14:08:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123339.D

Injection Date:	14-Dec-2017 17:00:11	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1268			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:17 Calibration End Date: 12/14/2017 17:17 Calibration ID: 65727

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/18	8F123340.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0186					Ave		0.0186						20.0			0.9900
PCB-1248 Peak 2	0.0408					Ave		0.0408						20.0			0.9900
PCB-1248 Peak 3	0.0241					Ave		0.0241						20.0			0.9900
PCB-1248 Peak 4	0.0232					Ave		0.0232						20.0			0.9900
PCB-1248 Peak 5	0.0329					Ave		0.0329						20.0			0.9900
PCB-1248 Peak 6	0.0312					Ave		0.0312						20.0			0.9900
PCB-1248 Peak 7	0.0370					Ave		0.0370						20.0			0.9900
PCB-1248 Peak 8	0.0129					Ave		0.0129						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:17 Calibration End Date: 12/14/2017 17:17 Calibration ID: 65727

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/18	8F123340.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	3468482					1000				
PCB-1248 Peak 2	BNB	Ave	7590540					1000				
PCB-1248 Peak 3	BNB	Ave	4479925					1000				
PCB-1248 Peak 4	BNB	Ave	4317075					1000				
PCB-1248 Peak 5	BNB	Ave	6113419					1000				
PCB-1248 Peak 6	BNB	Ave	5795437					1000				
PCB-1248 Peak 7	BNB	Ave	6876008					1000				
PCB-1248 Peak 8	BNB	Ave	2403381					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:17:37 ALS Bottle#: 22 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-018
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:08:06 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:34:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.313	2.313	0.000	3719794	20.0	20.0	a
2	1.952	1.952	0.000	8569353	20.0	20.0	M
						RPD = 0.00	
6 PCB-1248							M
1	4.947	4.947	0.000	3468482	1000.0	1000.0	
1	5.566	5.566	0.000	7590540	1000.0	1000.0	
1	6.031	6.031	0.000	4479925	1000.0	1000.0	
1	6.083	6.083	0.000	4317075	1000.0	1000.0	
1	6.533	6.533	0.000	6113419	1000.0	1000.0	M
1	6.877	6.877	0.000	5795437	1000.0	1000.0	M
1	6.933	6.933	0.000	6876008	1000.0	1000.0	M
1	8.282	8.282	0.000	2403381	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.919	3.919	0.000	5481592	1000.0	1000.0	M
2	4.523	4.523	0.000	12767399	1000.0	1000.0	M
2	5.228	5.228	0.000	13557341	1000.0	1000.0	M
2	5.783	5.783	0.000	24306364	1000.0	1000.0	M
2	6.036	6.036	0.000	15342472	1000.0	1000.0	M
2	6.524	6.524	0.000	6799582	1000.0	1000.0	M
2	6.873	6.873	0.000	5446399	1000.0	1000.0	M
2	7.228	7.228	0.000	4477947	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

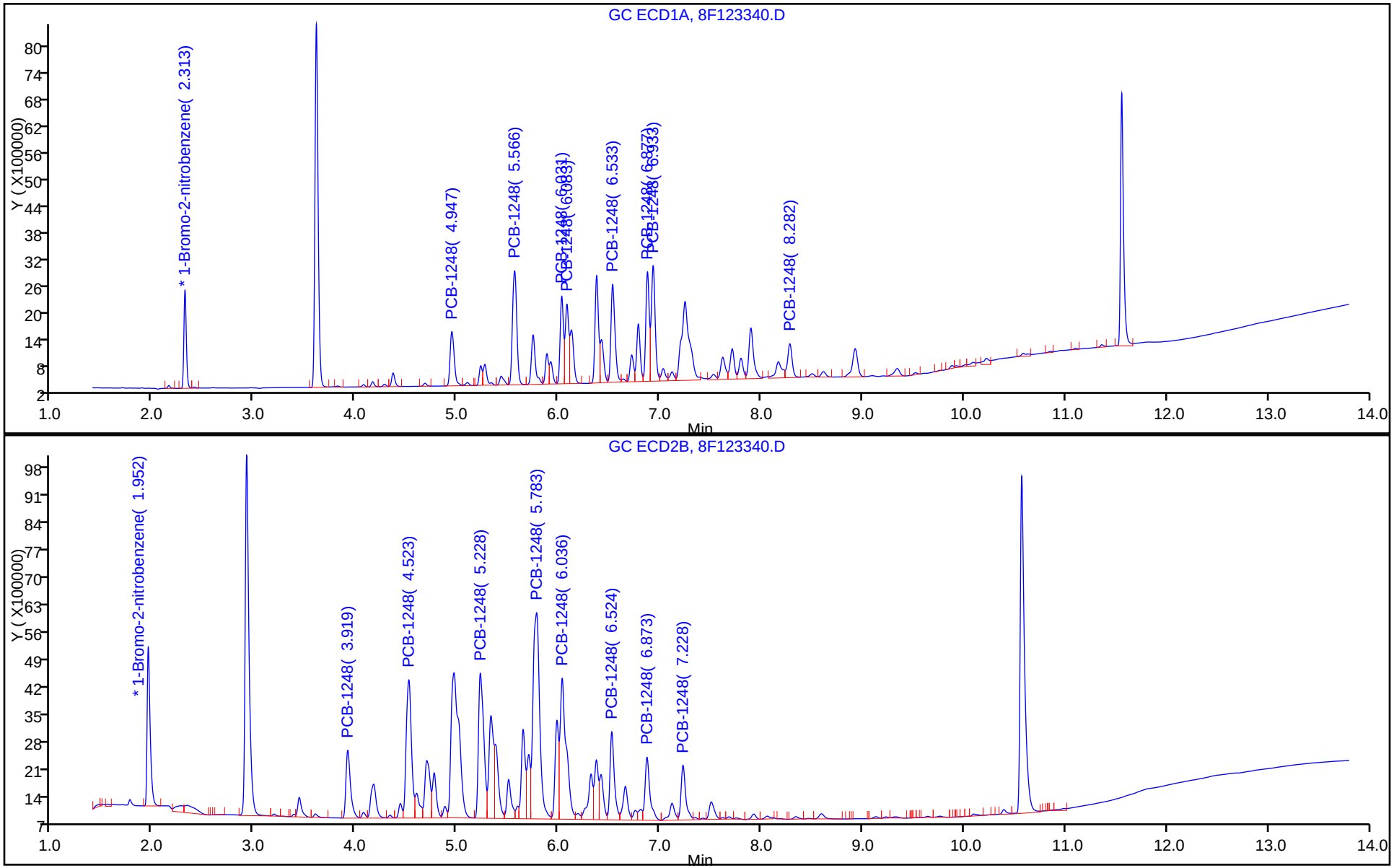
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 23-Dec-2017 14:08:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D

Injection Date:	14-Dec-2017 17:17:37	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



TestAmerica Edison

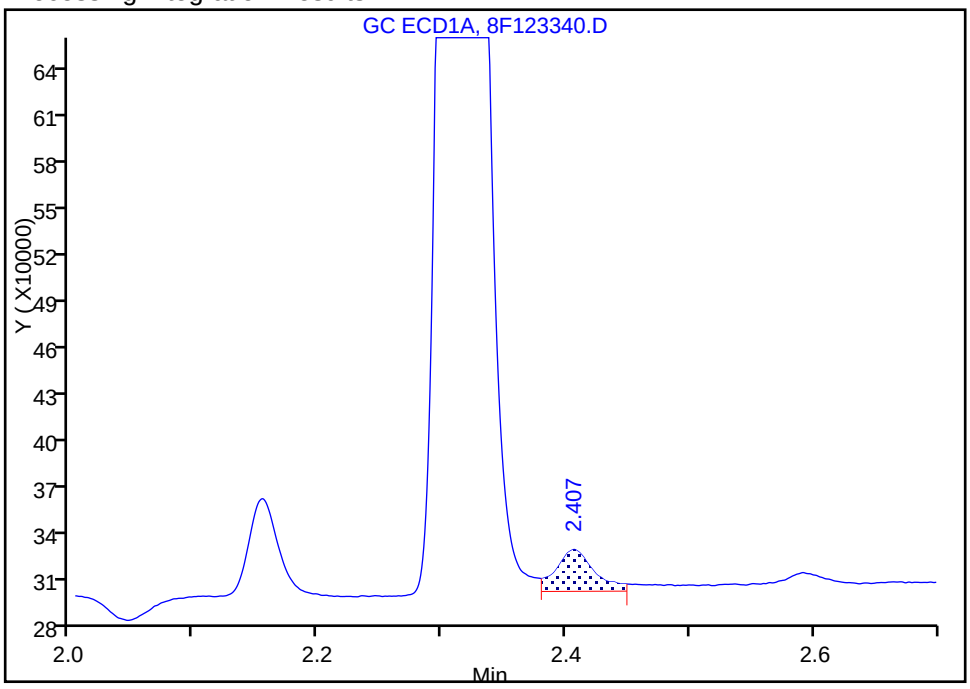
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D				
Injection Date:	14-Dec-2017 17:17:37	Instrument ID:	CPESTGC8		
Lims ID:	IC 1248				
Client ID:					
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

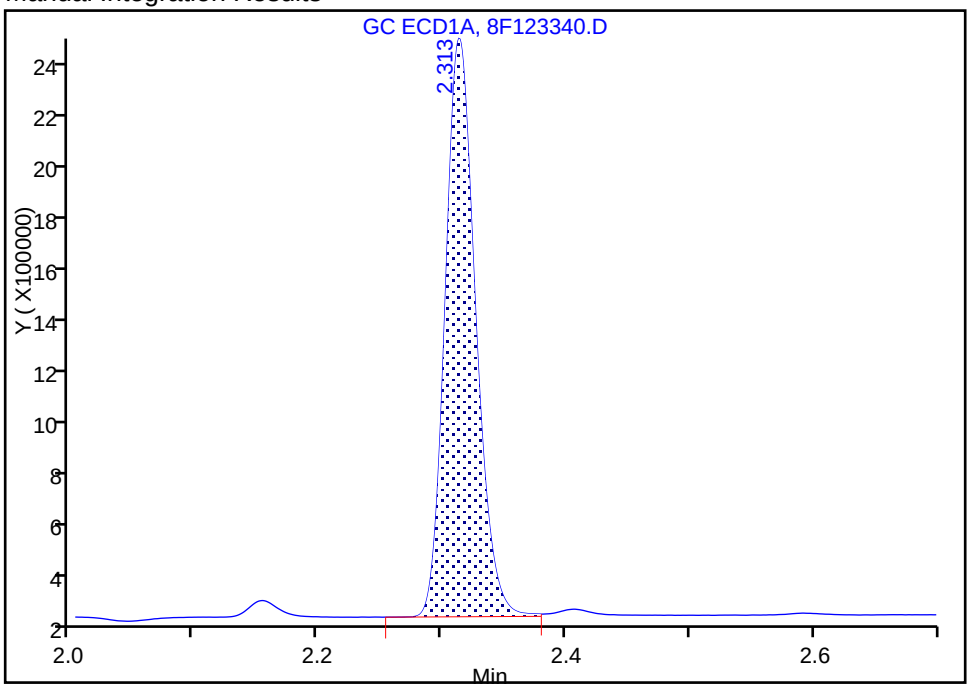
Processing Integration Results

RT: 2.41
Area: 57366
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.31
Area: 3719794
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 23-Dec-2017 14:07:00
Audit Action: Assigned Compound ID Audit Reason:

Report Date: 23-Dec-2017 14:08:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D

Injection Date: 14-Dec-2017 17:17:37 Instrument ID: CPESTGC8

Lims ID: IC 1248

Client ID:

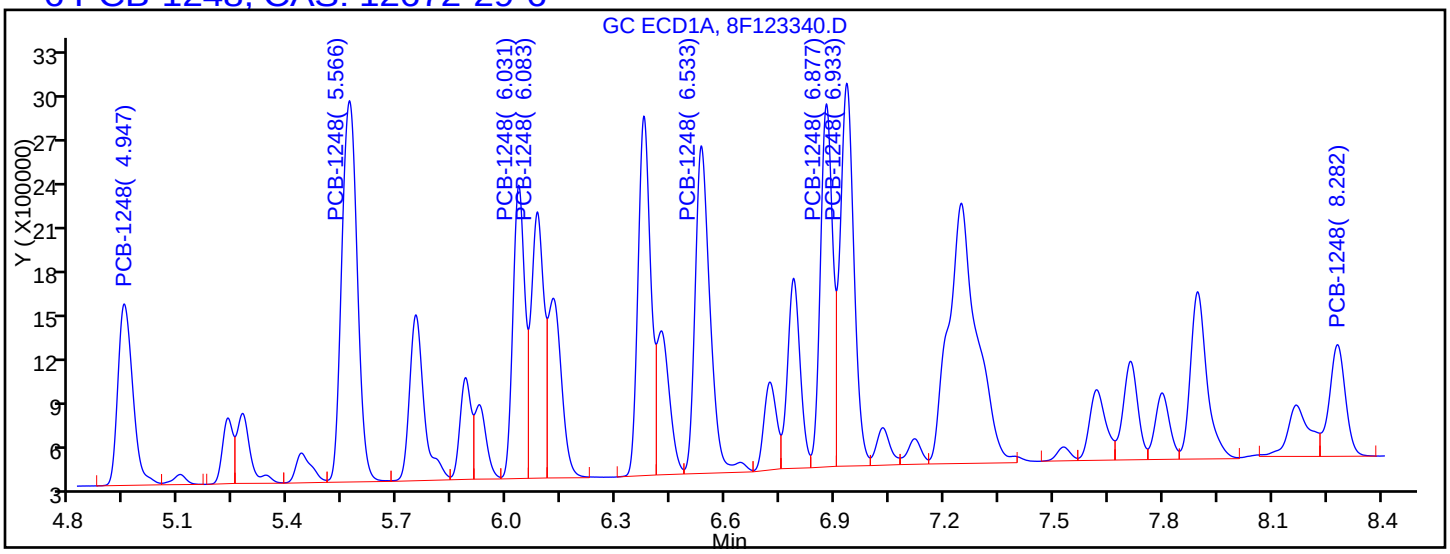
Operator ID: ALS Bottle#: 22 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

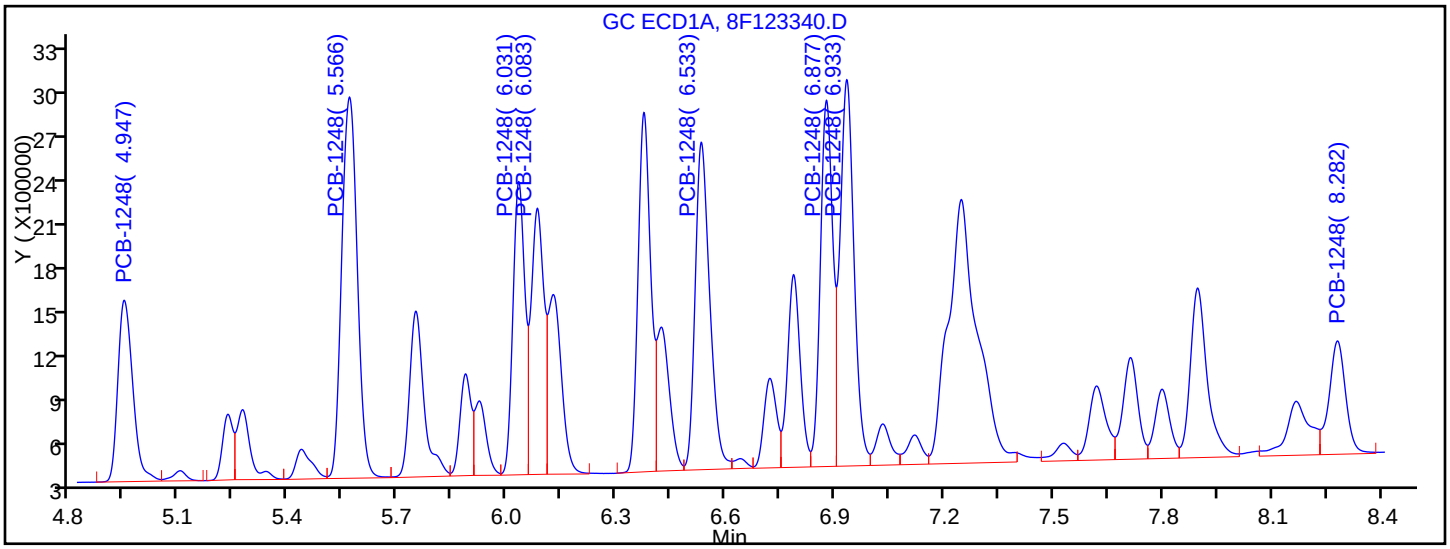
Column: Detector GC ECD1A

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

4.947	Response = 3468482
5.566	Response = 7590540
6.031	Response = 4479925
6.083	Response = 4317075
6.533	Response = 6270073
6.877	Response = 5701973
6.933	Response = 6738842
8.282	Response = 2311201



Manual Integration Results

4.947	Response = 3468482
5.566	Response = 7590540
6.031	Response = 4479925
6.083	Response = 4317075
6.533	Response = 6113419 M
6.877	Response = 5795437 M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:17 Calibration End Date: 12/14/2017 17:17 Calibration ID: 65728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/18	8F123340.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0128					Ave		0.0128						20.0			0.9900
PCB-1248 Peak 2	0.0298					Ave		0.0298						20.0			0.9900
PCB-1248 Peak 3	0.0316					Ave		0.0316						20.0			0.9900
PCB-1248 Peak 4	0.0567					Ave		0.0567						20.0			0.9900
PCB-1248 Peak 5	0.0358					Ave		0.0358						20.0			0.9900
PCB-1248 Peak 6	0.0159					Ave		0.0159						20.0			0.9900
PCB-1248 Peak 7	0.0127					Ave		0.0127						20.0			0.9900
PCB-1248 Peak 8	0.0105					Ave		0.0105						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:17 Calibration End Date: 12/14/2017 17:17 Calibration ID: 65728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/18	8F123340.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	5481592					1000				
PCB-1248 Peak 2	BNB	Ave	12767399					1000				
PCB-1248 Peak 3	BNB	Ave	13557341					1000				
PCB-1248 Peak 4	BNB	Ave	24306364					1000				
PCB-1248 Peak 5	BNB	Ave	15342472					1000				
PCB-1248 Peak 6	BNB	Ave	6799582					1000				
PCB-1248 Peak 7	BNB	Ave	5446399					1000				
PCB-1248 Peak 8	BNB	Ave	4477947					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D
Lims ID: IC 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:17:37 ALS Bottle#: 22 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-018
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub5

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 23-Dec-2017 14:08:06 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 14-Dec-2017 17:34:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.313	2.313	0.000	3719794	20.0	20.0	a
2	1.952	1.952	0.000	8569353	20.0	20.0	M
						RPD = 0.00	
6 PCB-1248							M
1	4.947	4.947	0.000	3468482	1000.0	1000.0	
1	5.566	5.566	0.000	7590540	1000.0	1000.0	
1	6.031	6.031	0.000	4479925	1000.0	1000.0	
1	6.083	6.083	0.000	4317075	1000.0	1000.0	
1	6.533	6.533	0.000	6113419	1000.0	1000.0	M
1	6.877	6.877	0.000	5795437	1000.0	1000.0	M
1	6.933	6.933	0.000	6876008	1000.0	1000.0	M
1	8.282	8.282	0.000	2403381	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
2	3.919	3.919	0.000	5481592	1000.0	1000.0	M
2	4.523	4.523	0.000	12767399	1000.0	1000.0	M
2	5.228	5.228	0.000	13557341	1000.0	1000.0	M
2	5.783	5.783	0.000	24306364	1000.0	1000.0	M
2	6.036	6.036	0.000	15342472	1000.0	1000.0	M
2	6.524	6.524	0.000	6799582	1000.0	1000.0	M
2	6.873	6.873	0.000	5446399	1000.0	1000.0	M
2	7.228	7.228	0.000	4477947	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

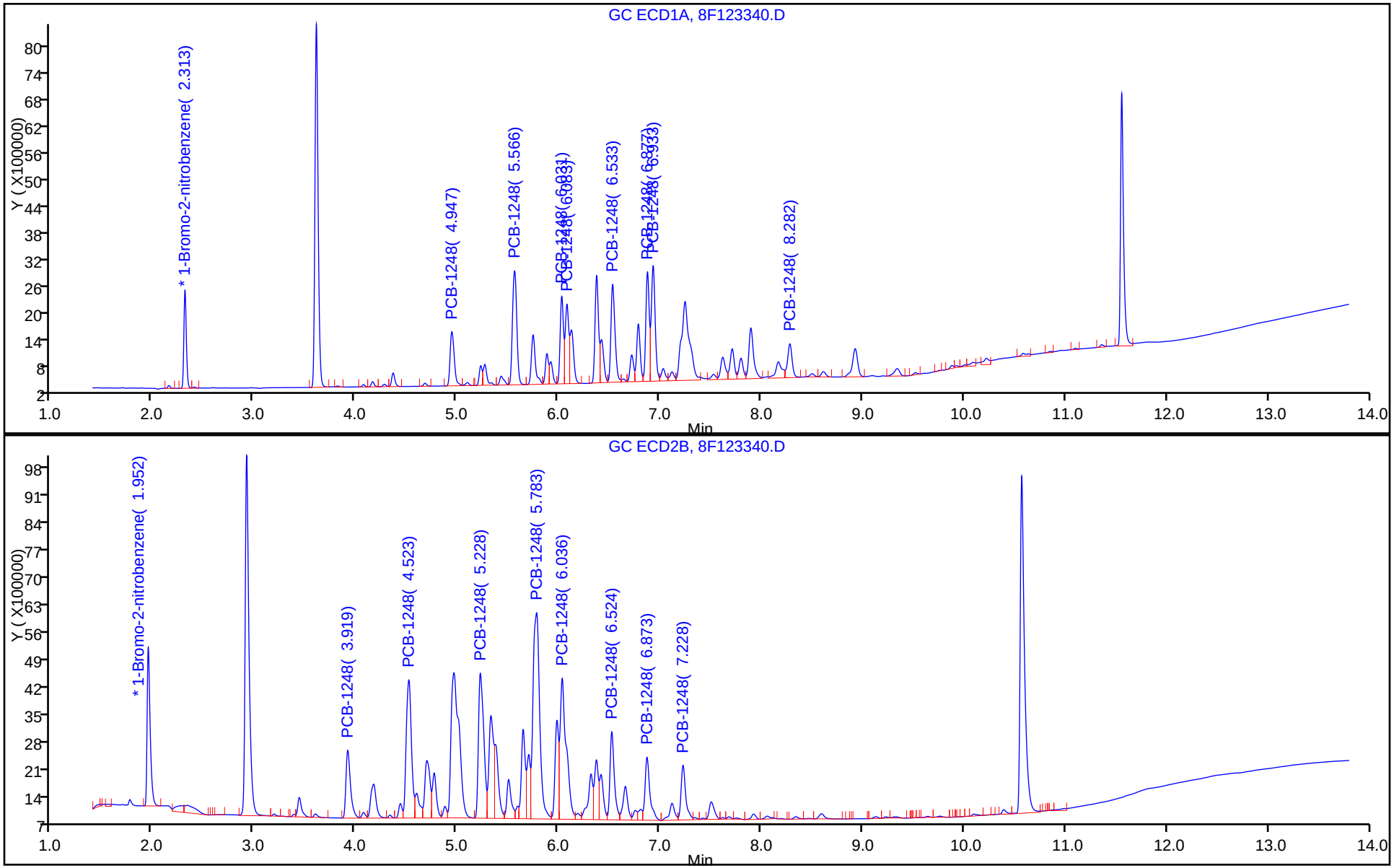
SG1248L3_00028	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 23-Dec-2017 14:08:08 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D

Injection Date:	14-Dec-2017 17:17:37	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

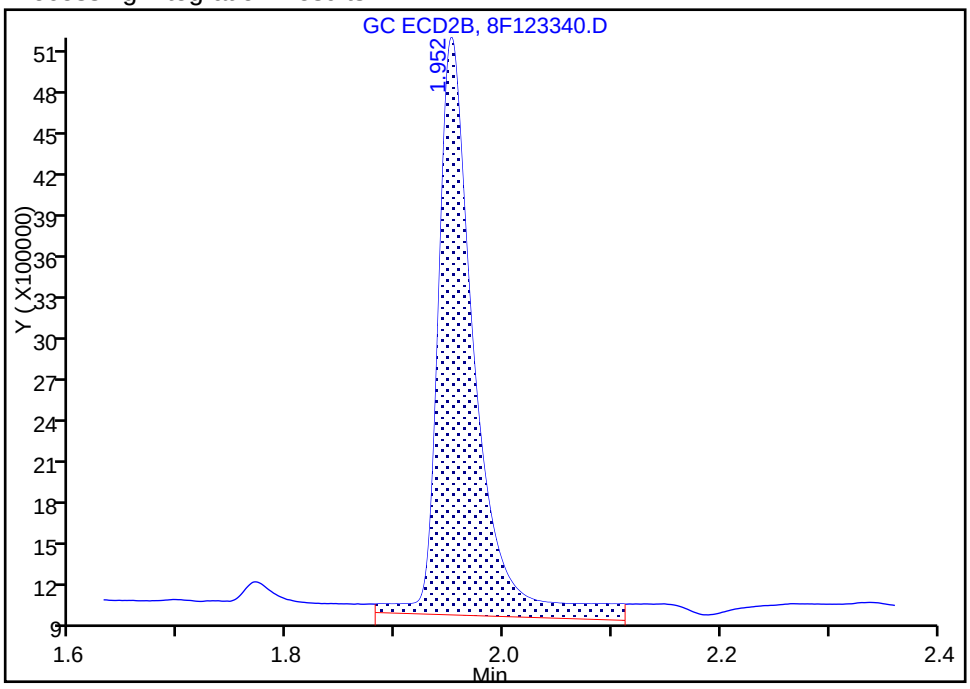
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D		
Injection Date:	14-Dec-2017 17:17:37	Instrument ID:	CPESTGC8
Lims ID:	IC 1248		
Client ID:			
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

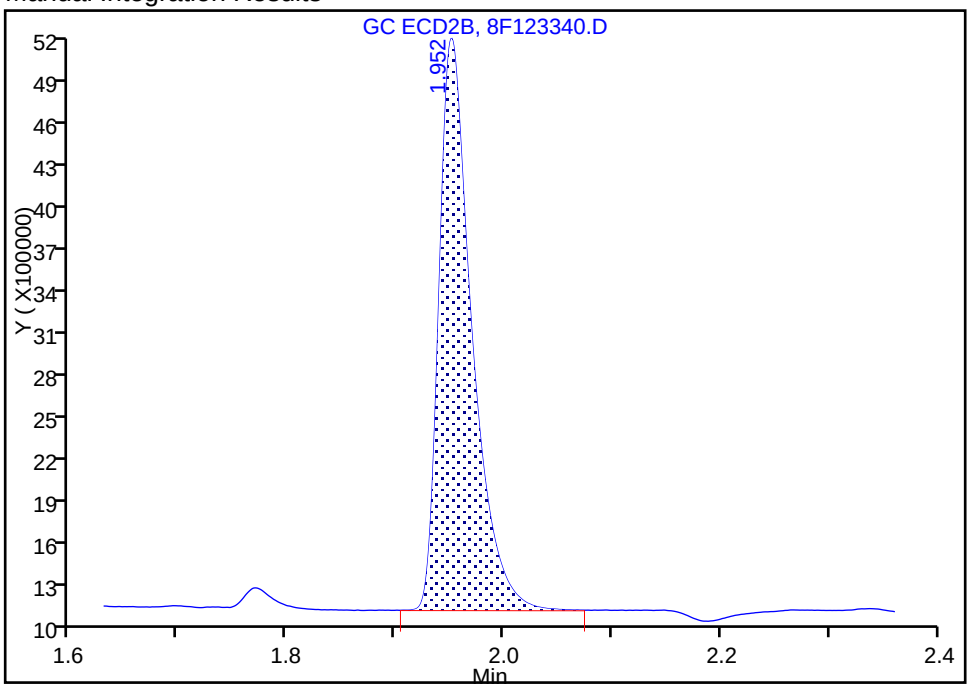
Processing Integration Results

RT: 1.95
Area: 9774434
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8569353
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 14-Dec-2017 17:33:40

Audit Action: Manually Integrated Audit Reason: Peak not integrated

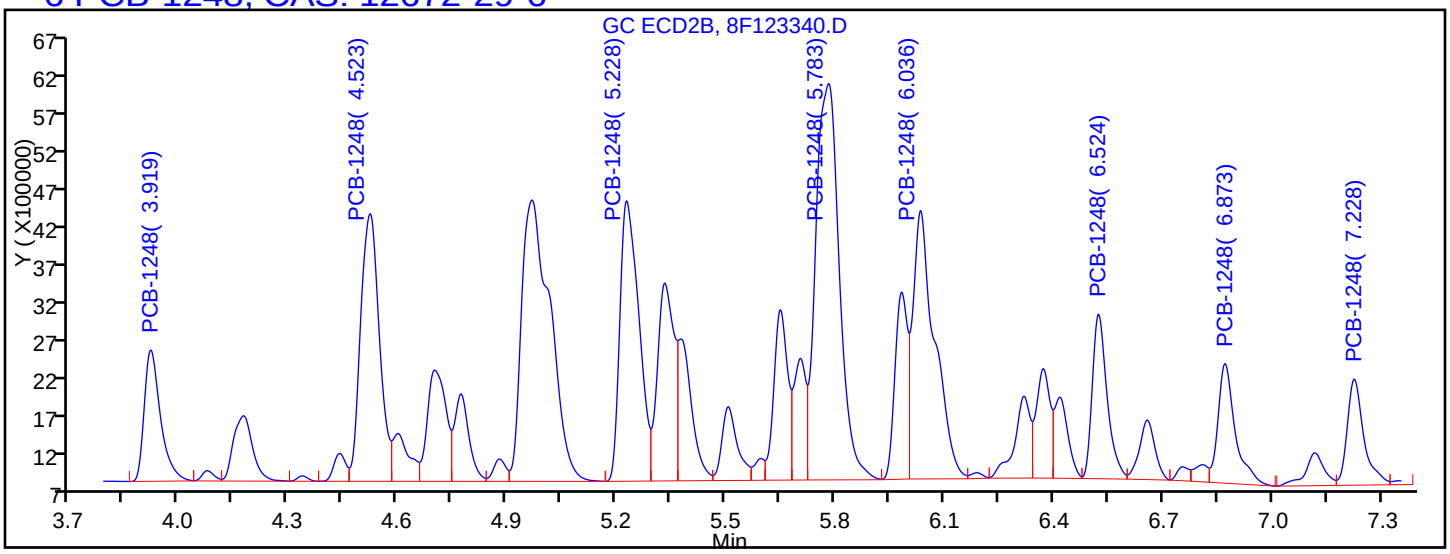
Report Date: 23-Dec-2017 14:08:08 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123340.D

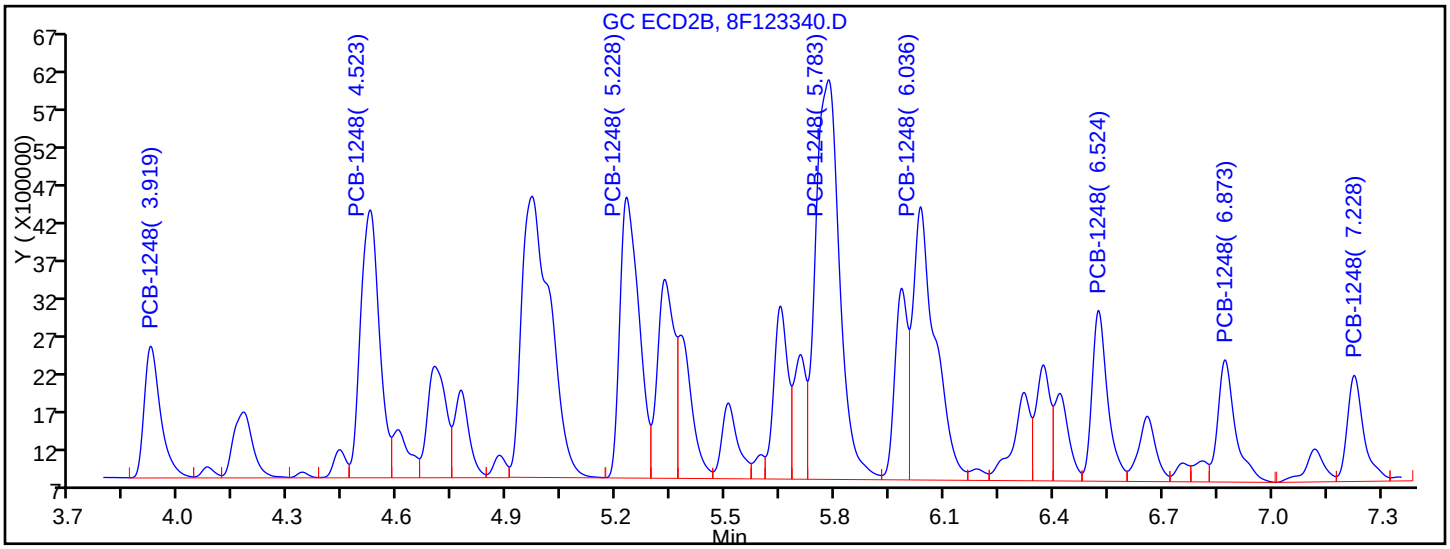
Injection Date:	14-Dec-2017 17:17:37	Instrument ID:	CPESTGC8		
Lims ID:	IC 1248				
Client ID:					
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.919	Response = 5410057
4.523	Response = 12745807
5.228	Response = 13500155
5.783	Response = 23757419
6.036	Response = 14707749
6.524	Response = 6188760
6.873	Response = 5199393
7.228	Response = 4477947



Manual Integration Results

3.919	Response = 5481592	M
4.523	Response = 12767399	M
5.228	Response = 13557341	M
5.783	Response = 24306364	M
6.036	Response = 15342472	M
6.524	Response = 6799582	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:35 Calibration End Date: 12/14/2017 17:35 Calibration ID: 65749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/19	8F123341.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0130					Ave		0.0130						20.0			0.9900
PCB-1254 Peak 2	0.0336					Ave		0.0336						20.0			0.9900
PCB-1254 Peak 3	0.0378					Ave		0.0378						20.0			0.9900
PCB-1254 Peak 4	0.0279					Ave		0.0279						20.0			0.9900
PCB-1254 Peak 5	0.0580					Ave		0.0580						20.0			0.9900
PCB-1254 Peak 6	0.0422					Ave		0.0422						20.0			0.9900
PCB-1254 Peak 7	0.0345					Ave		0.0345						20.0			0.9900
PCB-1254 Peak 8	0.0548					Ave		0.0548						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:35 Calibration End Date: 12/14/2017 17:35 Calibration ID: 65749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/19	8F123341.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	2467897					1000				
PCB-1254 Peak 2	BNB	Ave	6395879					1000				
PCB-1254 Peak 3	BNB	Ave	7193669					1000				
PCB-1254 Peak 4	BNB	Ave	5306841					1000				
PCB-1254 Peak 5	BNB	Ave	11033556					1000				
PCB-1254 Peak 6	BNB	Ave	8025296					1000				
PCB-1254 Peak 7	BNB	Ave	6574663					1000				
PCB-1254 Peak 8	BNB	Ave	10432644					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:35:01 ALS Bottle#: 23 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-019
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 24-Dec-2017 10:19:54 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK008

First Level Reviewer: patelji Date: 14-Dec-2017 17:53:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3806669	20.0	20.0	
2	1.953	1.953	0.000	8709273	20.0	20.0	M
						RPD = 0.00	
7 PCB-1254							M
1	6.376	6.376	0.000	2467897	1000.0	1000.0	
1	6.927	6.927	0.000	6395879	1000.0	1000.0	
1	7.204	7.204	0.000	7193669	1000.0	1000.0	
1	7.712	7.712	0.000	5306841	1000.0	1000.0	
1	7.896	7.896	0.000	11033556	1000.0	1000.0	
1	8.281	8.281	0.000	8025296	1000.0	1000.0	
1	8.925	8.925	0.000	6574663	1000.0	1000.0	
1	9.341	9.341	0.000	10432644	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	5.226	5.226	0.000	4639103	1000.0	1000.0	M
2	5.709	5.709	0.000	10470009	1000.0	1000.0	M
2	6.041	6.041	0.000	17009512	1000.0	1000.0	M
2	6.373	6.373	0.000	12213168	1000.0	1000.0	M
2	6.526	6.526	0.000	21087292	1000.0	1000.0	M
2	6.873	6.873	0.000	17181936	1000.0	1000.0	M
2	7.121	7.121	0.000	14945516	1000.0	1000.0	M
2	7.508	7.508	0.000	21491415	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

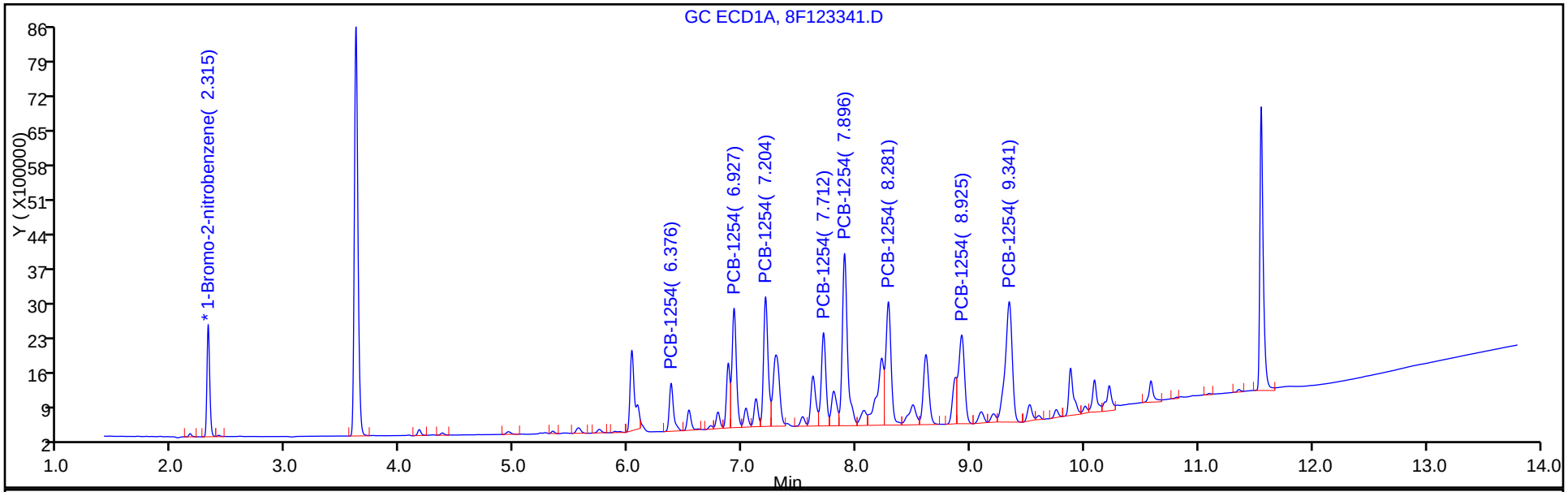
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

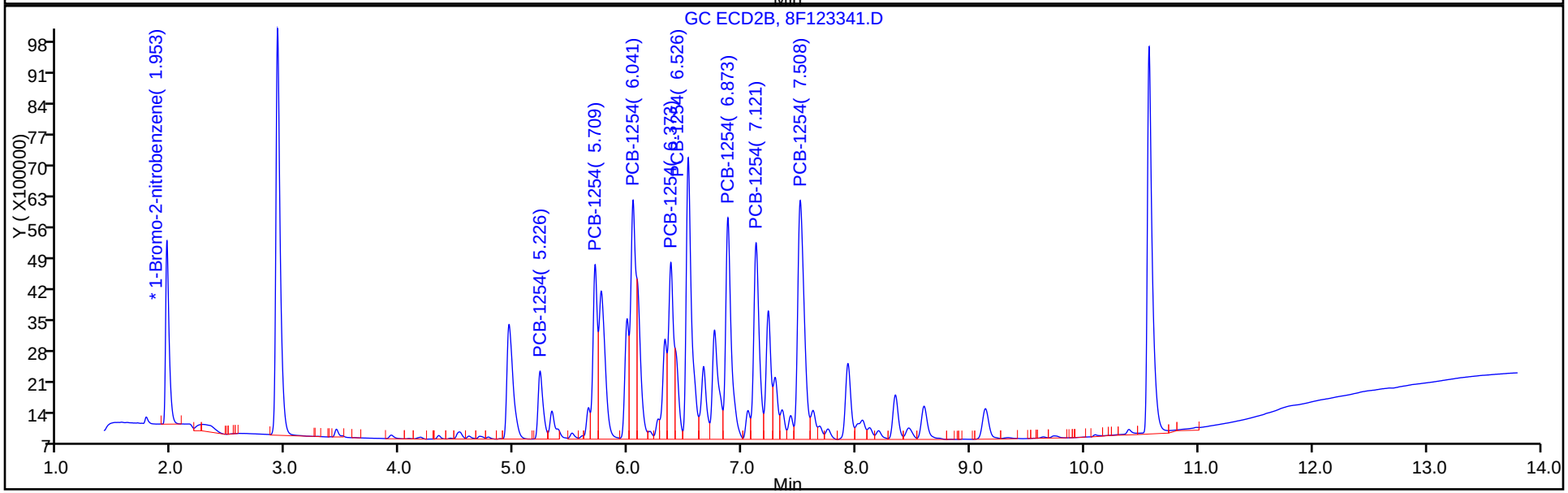
Report Date: 24-Dec-2017 10:19:54 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Injection Date:	14-Dec-2017 17:35:01	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:35 Calibration End Date: 12/14/2017 17:35 Calibration ID: 65750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/19	8F123341.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0107					Ave		0.0107						20.0			0.9900
PCB-1254 Peak 2	0.0240					Ave		0.0240						20.0			0.9900
PCB-1254 Peak 3	0.0391					Ave		0.0391						20.0			0.9900
PCB-1254 Peak 4	0.0280					Ave		0.0280						20.0			0.9900
PCB-1254 Peak 5	0.0484					Ave		0.0484						20.0			0.9900
PCB-1254 Peak 6	0.0395					Ave		0.0395						20.0			0.9900
PCB-1254 Peak 7	0.0343					Ave		0.0343						20.0			0.9900
PCB-1254 Peak 8	0.0494					Ave		0.0494						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-152136-1 Analy Batch No.: 484258

SDG No.:

Instrument ID: CPESTGC8 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 17:35 Calibration End Date: 12/14/2017 17:35 Calibration ID: 65750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-484258/19	8F123341.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	4639103					1000				
PCB-1254 Peak 2	BNB	Ave	10470009					1000				
PCB-1254 Peak 3	BNB	Ave	17009512					1000				
PCB-1254 Peak 4	BNB	Ave	12213168					1000				
PCB-1254 Peak 5	BNB	Ave	21087292					1000				
PCB-1254 Peak 6	BNB	Ave	17181936					1000				
PCB-1254 Peak 7	BNB	Ave	14945516					1000				
PCB-1254 Peak 8	BNB	Ave	21491415					1000				

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D
Lims ID: IC 1254
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 17:35:01 ALS Bottle#: 23 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0064820-019
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub6

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 24-Dec-2017 10:19:54 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK008

First Level Reviewer: patelji Date: 14-Dec-2017 17:53:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.315	2.315	0.000	3806669	20.0	20.0	
2	1.953	1.953	0.000	8709273	20.0	20.0	M
						RPD = 0.00	
7 PCB-1254							M
1	6.376	6.376	0.000	2467897	1000.0	1000.0	
1	6.927	6.927	0.000	6395879	1000.0	1000.0	
1	7.204	7.204	0.000	7193669	1000.0	1000.0	
1	7.712	7.712	0.000	5306841	1000.0	1000.0	
1	7.896	7.896	0.000	11033556	1000.0	1000.0	
1	8.281	8.281	0.000	8025296	1000.0	1000.0	
1	8.925	8.925	0.000	6574663	1000.0	1000.0	
1	9.341	9.341	0.000	10432644	1000.0	1000.0	
		Average of Peak Amounts =				1000.0	
2	5.226	5.226	0.000	4639103	1000.0	1000.0	M
2	5.709	5.709	0.000	10470009	1000.0	1000.0	M
2	6.041	6.041	0.000	17009512	1000.0	1000.0	M
2	6.373	6.373	0.000	12213168	1000.0	1000.0	M
2	6.526	6.526	0.000	21087292	1000.0	1000.0	M
2	6.873	6.873	0.000	17181936	1000.0	1000.0	M
2	7.121	7.121	0.000	14945516	1000.0	1000.0	M
2	7.508	7.508	0.000	21491415	1000.0	1000.0	M
		Average of Peak Amounts =				1000.0	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

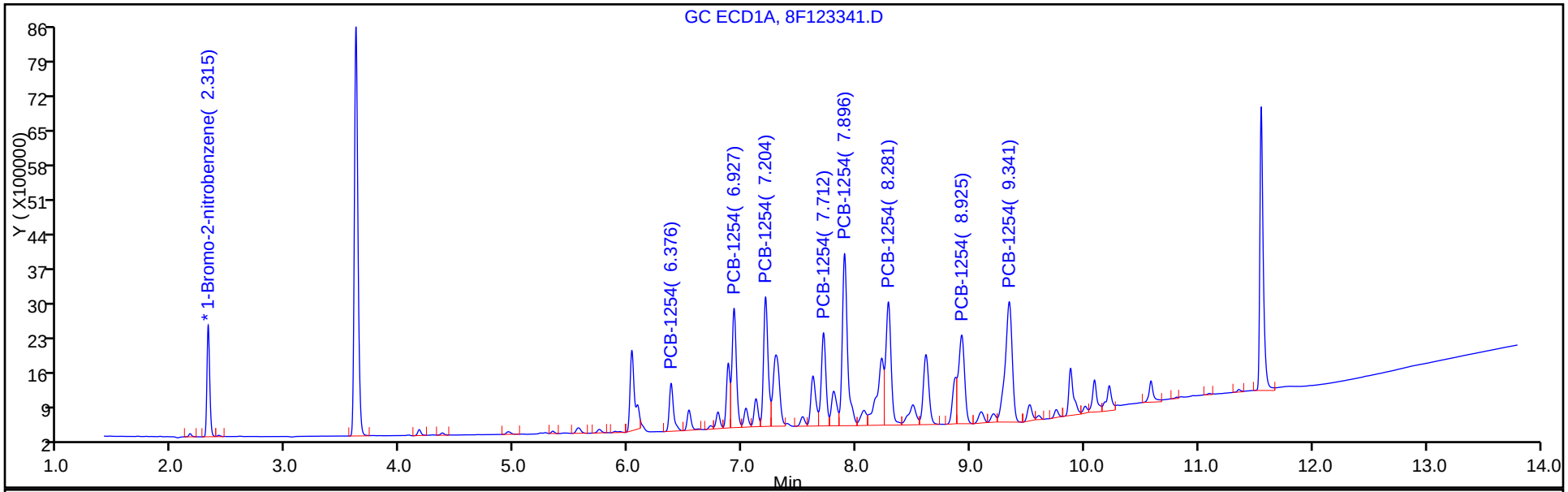
SG1254L3_00030	Amount Added:	1.00	Units: mL	
SGPCBISTD_00009	Amount Added:	20.00	Units: uL	Run Reagent

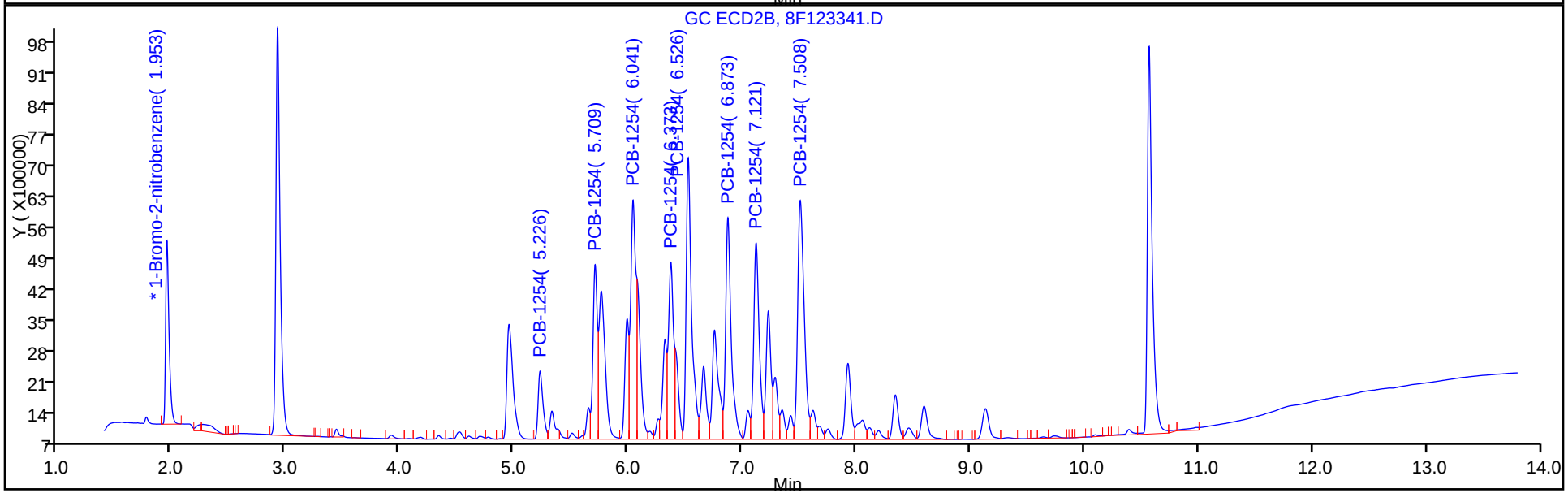
Report Date: 24-Dec-2017 10:19:55 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Injection Date:	14-Dec-2017 17:35:01	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	IC 1254			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

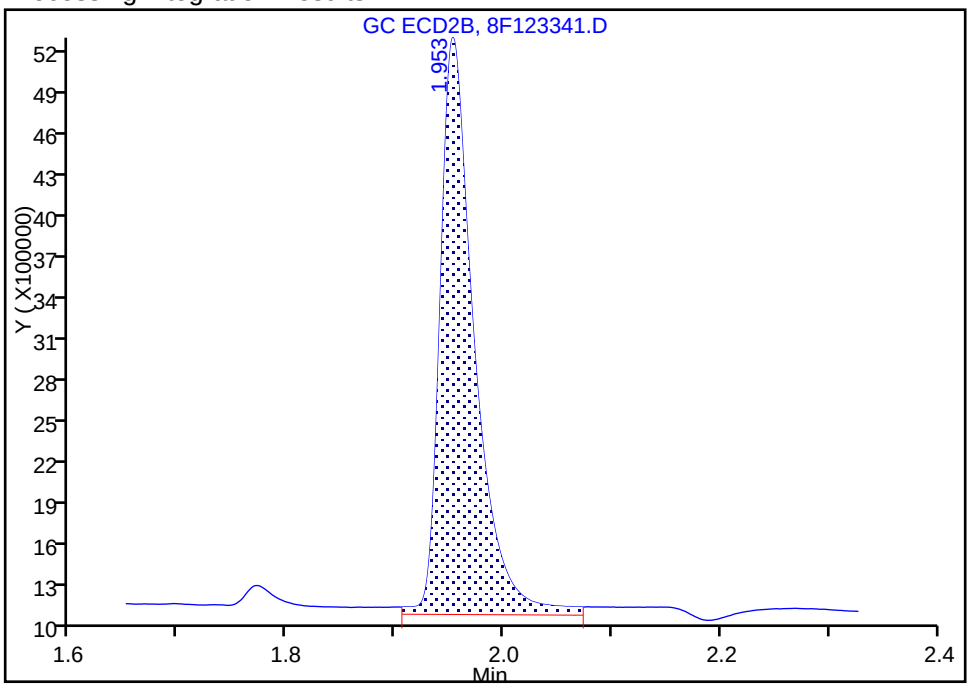
Data File:	\\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D		
Injection Date:	14-Dec-2017 17:35:01	Instrument ID:	CPESTGC8
Lims ID:	IC 1254		
Client ID:			
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

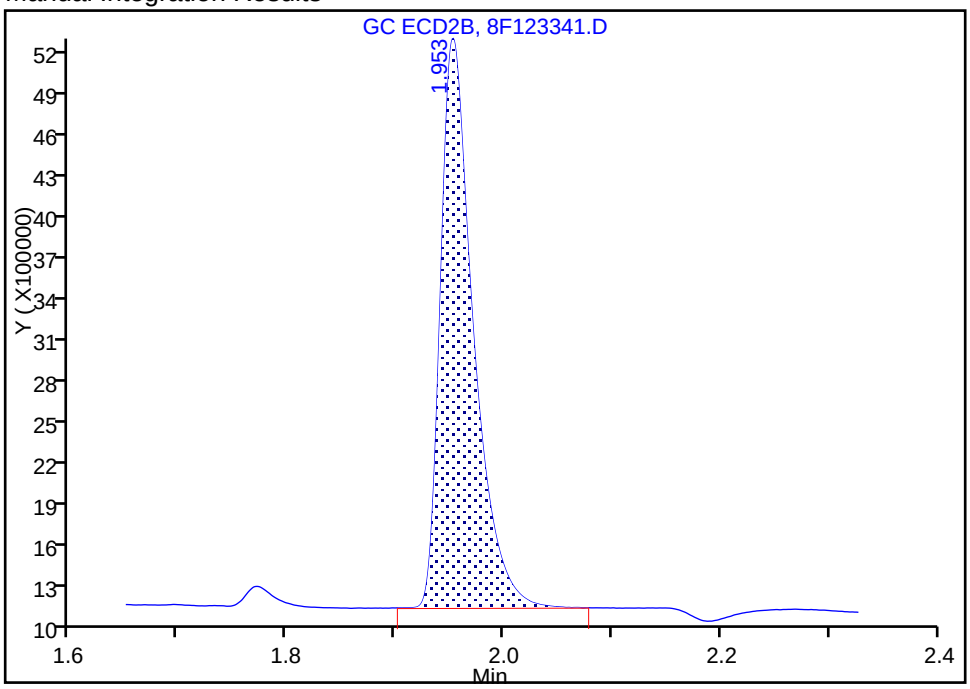
Processing Integration Results

RT: 1.95
Area: 9232455
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.95
Area: 8709273
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 24-Dec-2017 10:19:19

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 24-Dec-2017 10:19:55 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Injection Date: 14-Dec-2017 17:35:01 Instrument ID: CPESTGC8

Lims ID: IC 1254

Client ID:

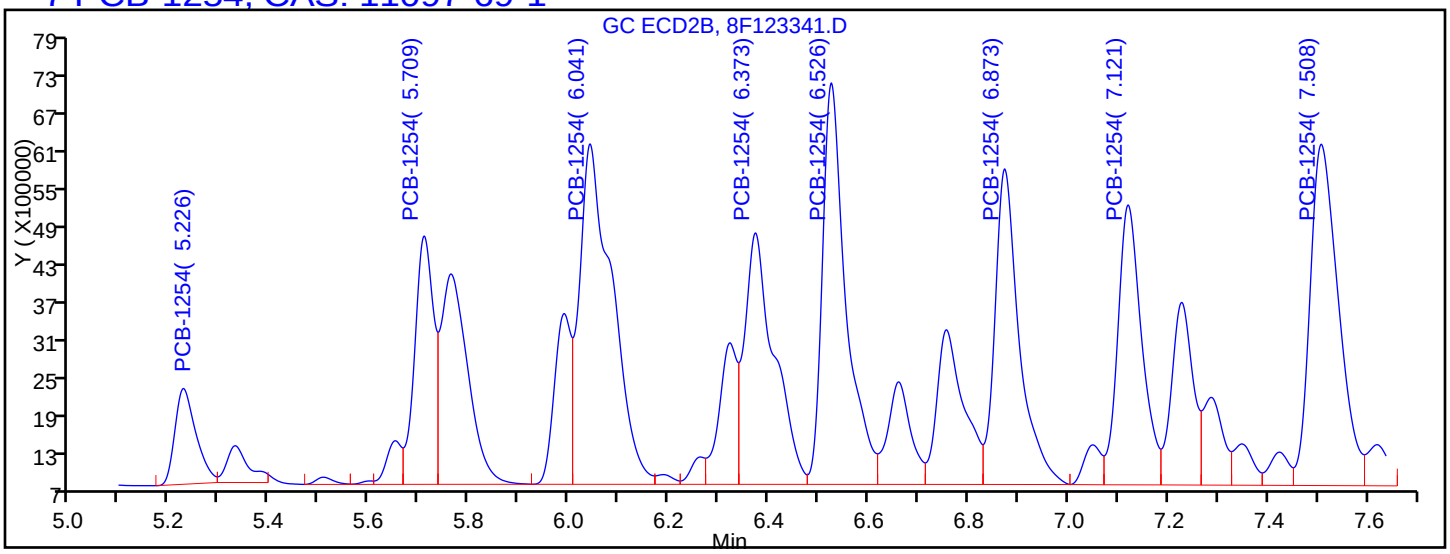
Operator ID: ALS Bottle#: 23 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

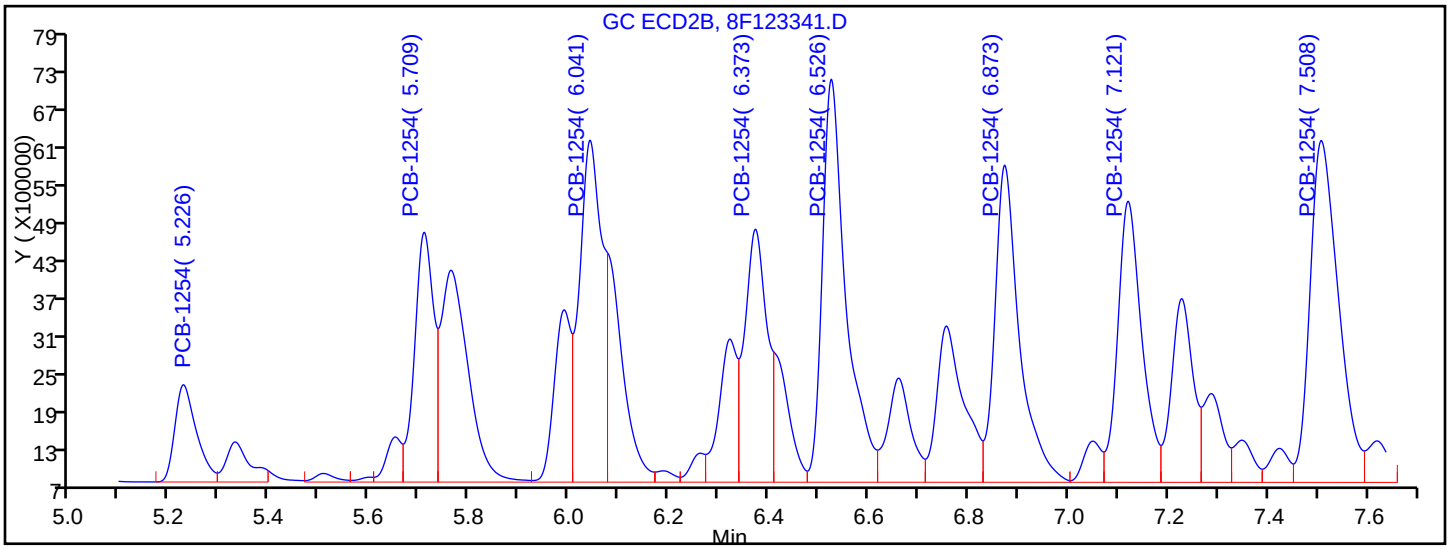
Column: Detector GC ECD2B

7 PCB-1254, CAS: 11097-69-1



Processing Integration Results

5.226	Response = 4445626
5.709	Response = 10370291
6.041	Response = 24493841
6.373	Response = 16251146
6.526	Response = 20873199
6.873	Response = 16928080
7.121	Response = 14811636
7.508	Response = 21416829



Manual Integration Results

5.226	Response = 4639103	M
5.709	Response = 10470009	M
6.041	Response = 17009512	M
6.373	Response = 12213168	M
6.526	Response = 21087292	M
6.873	Response = 17181936	M

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-491295/22 Calibration Date: 01/18/2018 14:34

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T139544.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0148	0.0156		1050	1000	5.3	20.0
PCB-1016 Peak 2	Ave	0.0280	0.0319		1140	1000	13.7	20.0
PCB-1016 Peak 3	Ave	0.0652	0.0709		1090	1000	8.8	20.0
PCB-1016 Peak 4	Ave	0.0254	0.0280		1100	1000	10.2	20.0
PCB-1016 Peak 5	Ave	0.0170	0.0186		1090	1000	9.1	20.0
PCB-1016 Peak 6	Ave	0.0199	0.0214		1070	1000	7.4	20.0
PCB-1016 Peak 7	Ave	0.0228	0.0218		953	1000	-4.7	20.0
PCB-1016 Peak 8	Ave	0.0175	0.0152		868	1000	-13.2	20.0
PCB-1260 Peak 1	Ave	0.0175	0.0187		1070	1000	7.2	20.0
PCB-1260 Peak 2	Ave	0.0407	0.0435		1070	1000	6.9	20.0
PCB-1260 Peak 3	Ave	0.0487	0.0510		1050	1000	4.6	20.0
PCB-1260 Peak 4	Ave	0.0333	0.0352		1060	1000	5.9	20.0
PCB-1260 Peak 5	Ave	0.0351	0.0372		1060	1000	5.7	20.0
PCB-1260 Peak 6	Ave	0.0874	0.0928		1060	1000	6.1	20.0
PCB-1260 Peak 7	Ave	0.0591	0.0627		1060	1000	6.0	20.0
PCB-1260 Peak 8	Ave	0.0226	0.0238		1050	1000	5.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-491295/22 Calibration Date: 01/18/2018 14:34

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T139544.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.27	3.25	3.31
PCB-1016 Peak 2	3.79	3.76	3.82
PCB-1016 Peak 3	4.37	4.34	4.40
PCB-1016 Peak 4	4.54	4.51	4.57
PCB-1016 Peak 5	4.67	4.64	4.70
PCB-1016 Peak 6	5.14	5.11	5.17
PCB-1016 Peak 7	5.29	5.26	5.32
PCB-1016 Peak 8	5.68	5.65	5.71
PCB-1260 Peak 1	6.71	6.68	6.74
PCB-1260 Peak 2	6.98	6.95	7.01
PCB-1260 Peak 3	7.36	7.33	7.39
PCB-1260 Peak 4	8.22	8.19	8.25
PCB-1260 Peak 5	8.83	8.80	8.86
PCB-1260 Peak 6	9.42	9.39	9.45
PCB-1260 Peak 7	9.98	9.95	10.01
PCB-1260 Peak 8	10.63	10.60	10.66

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Jan-2018 14:34:07 ALS Bottle#: 14 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:50 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:57:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.663	-0.003	22753073	20.0	20.0	
2	1.393	1.395	-0.002	38486758	20.0	20.0	M
						RPD = 0.00	
5 PCB-1016							M
1	3.273	3.275	-0.002	17742550	1000.0	1052.8	
1	3.789	3.792	-0.003	36257462	1000.0	1137.0	
1	4.367	4.369	-0.002	80688589	1000.0	1088.4	M
1	4.539	4.541	-0.002	31881027	1000.0	1102.1	M
1	4.667	4.668	-0.001	21102986	1000.0	1091.5	M
1	5.136	5.138	-0.002	24307909	1000.0	1074.1	
1	5.289	5.291	-0.002	24747388	1000.0	952.8	
1	5.681	5.683	-0.002	17242023	1000.0	867.7	
		Average of Peak Amounts =				1045.8	
2	2.459	2.461	-0.002	30720103	1000.0	953.0	
2	2.848	2.849	-0.001	67950254	1000.0	1078.9	M
2	3.072	3.073	-0.001	45087155	1000.0	1085.3	M
2	3.374	3.374	0.000	149740358	1000.0	1098.4	M
2	3.526	3.527	-0.001	60140097	1000.0	1099.4	M
2	3.597	3.598	-0.001	36103371	1000.0	1087.9	M
2	4.006	4.007	-0.001	59566961	1000.0	1047.9	M
2	4.456	4.458	-0.002	28246289	1000.0	950.1	
		Average of Peak Amounts =				1050.1	
						RPD = 0.41	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 PCB-1260							M
1	6.708	6.711	-0.003	21291866	1000.0	1071.8	
1	6.976	6.977	-0.001	49515485	1000.0	1069.0	
1	7.357	7.357	0.000	57978742	1000.0	1046.2	
1	8.219	8.219	0.000	40096439	1000.0	1059.1	M
1	8.831	8.833	-0.002	42279402	1000.0	1057.3	M
1	9.418	9.418	0.000	105577251	1000.0	1061.3	M
1	9.981	9.983	-0.002	71271253	1000.0	1059.5	M
1	10.627	10.628	-0.001	27060766	1000.0	1053.9	
		Average of Peak Amounts =				1059.8	
2	5.463	5.465	-0.002	83271044	1000.0	1012.1	M
2	6.207	6.208	-0.001	154425453	1000.0	1030.2	
2	6.383	6.384	-0.001	70124924	1000.0	966.1	
2	6.757	6.758	-0.001	81143843	1000.0	1020.9	
2	7.287	7.288	-0.001	179935908	1000.0	1052.9	
2	7.787	7.788	-0.001	101422099	1000.0	1060.8	
2	7.951	7.953	-0.002	46981564	1000.0	1046.1	
2	9.082	9.085	-0.003	45561855	1000.0	1012.5	
		Average of Peak Amounts =				1025.2	
						RPD = 3.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

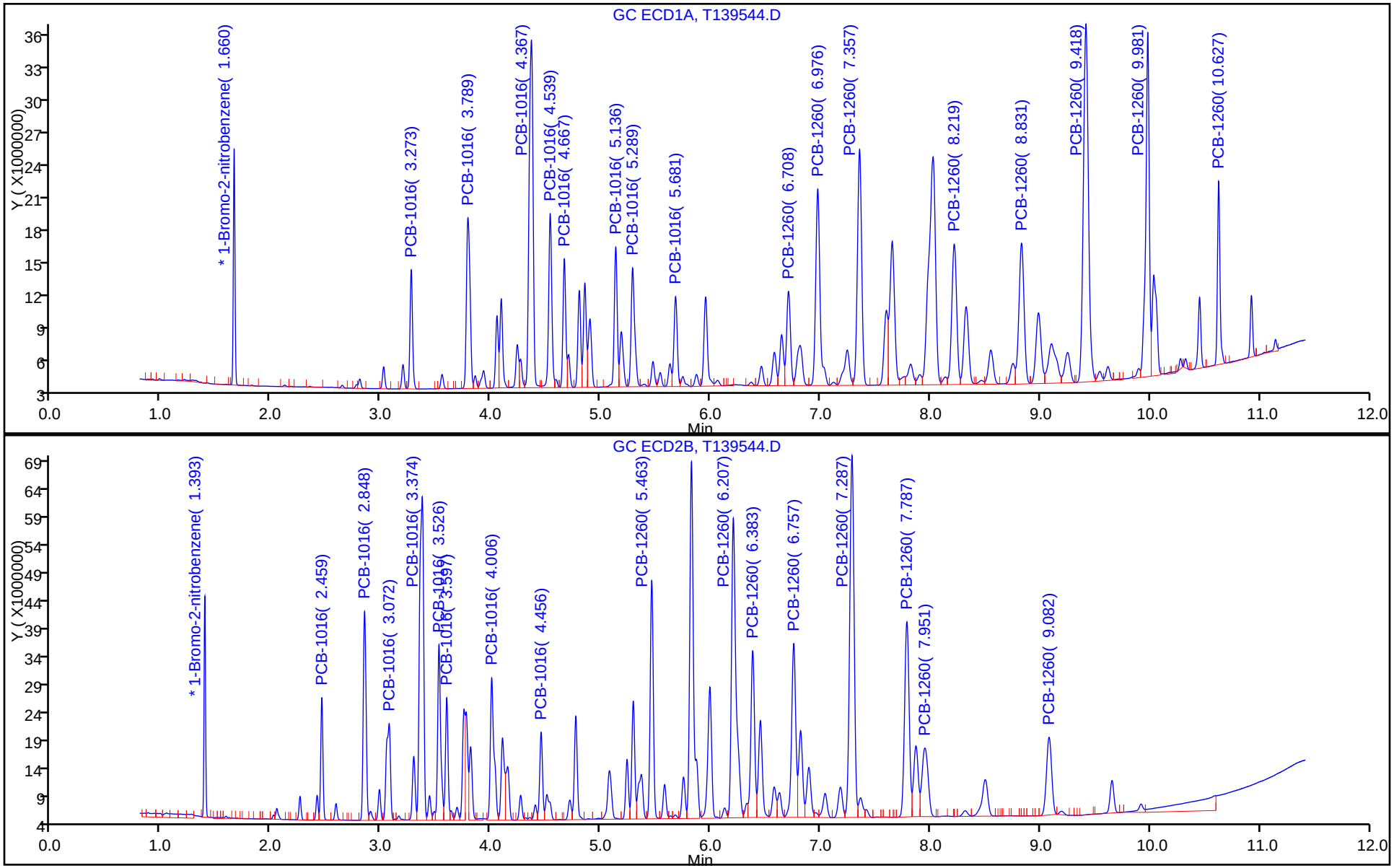
SGPCBICV_00021	Amount Added: 1.00	Units: mL	
SGPCBISTD_00009	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 18-Jan-2018 15:58:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

Injection Date:	18-Jan-2018 14:34:07	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 18-Jan-2018 15:58:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

Injection Date: 18-Jan-2018 14:34:07 Instrument ID: CPESTGC11

Lims ID: ICV

Client ID:

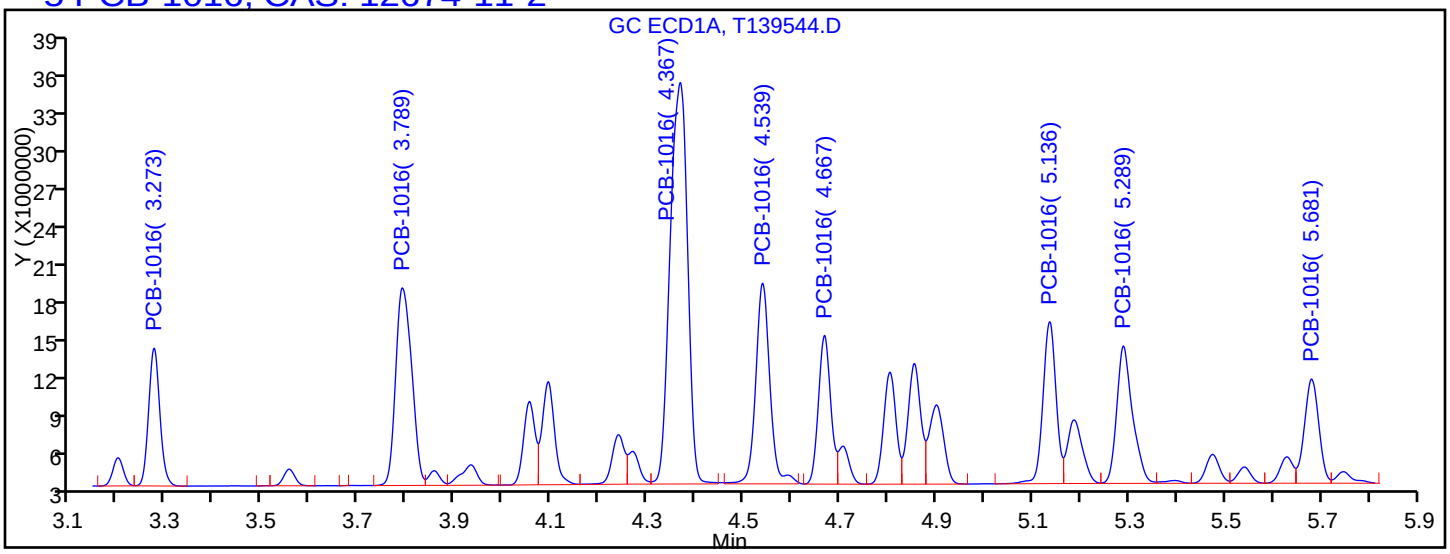
Operator ID: ALS Bottle#: 14 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

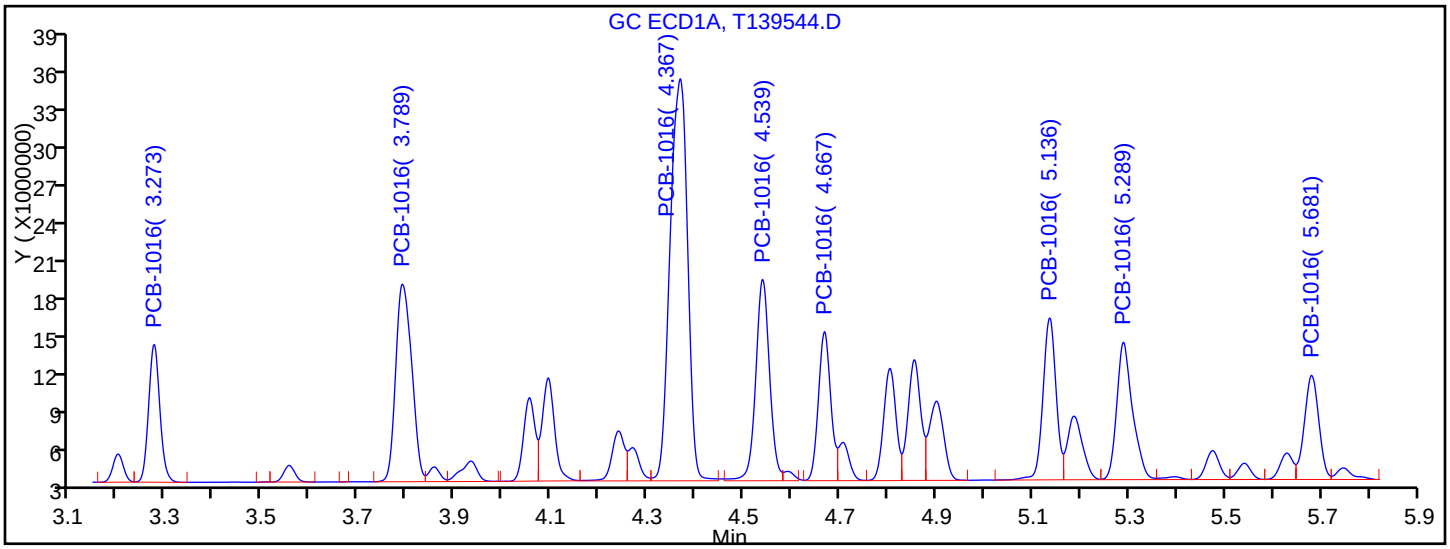
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.273	Response = 17742550
3.789	Response = 36257462
4.367	Response = 80295582
4.539	Response = 32481682
4.667	Response = 20992155
5.136	Response = 24307909
5.289	Response = 24747388
5.681	Response = 17242023



Manual Integration Results

3.273	Response = 17742550	
3.789	Response = 36257462	
4.367	Response = 80688589	M
4.539	Response = 31881027	M
4.667	Response = 21102986	M
5.136	Response = 24307909	

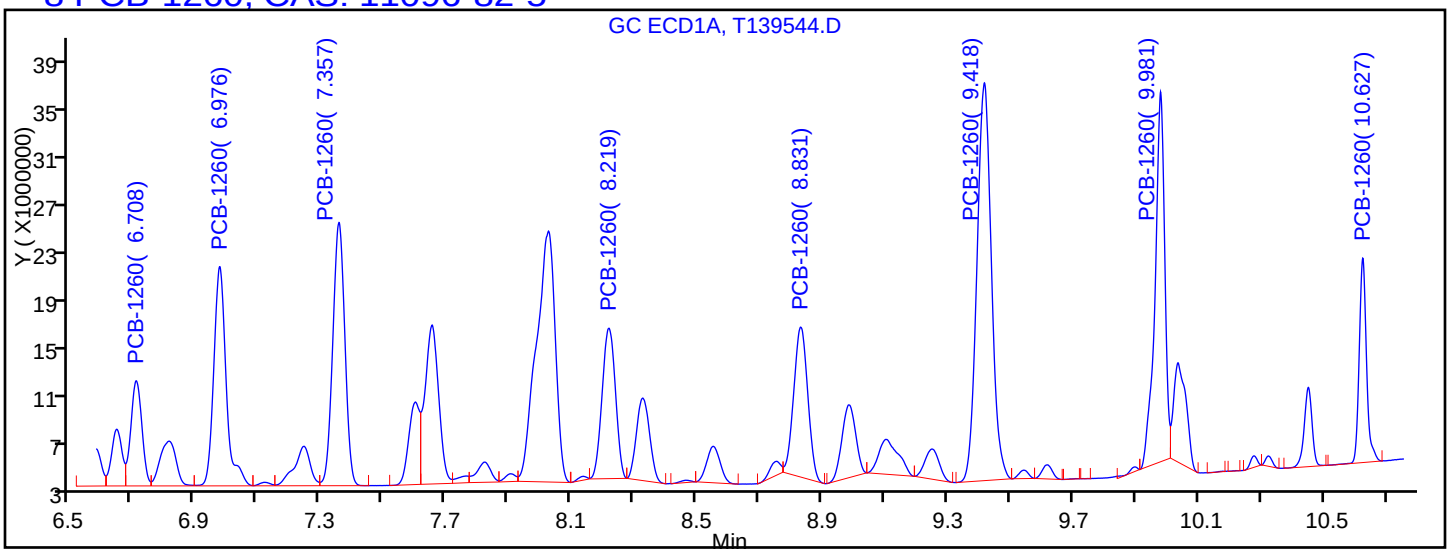
Report Date: 18-Jan-2018 15:58:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

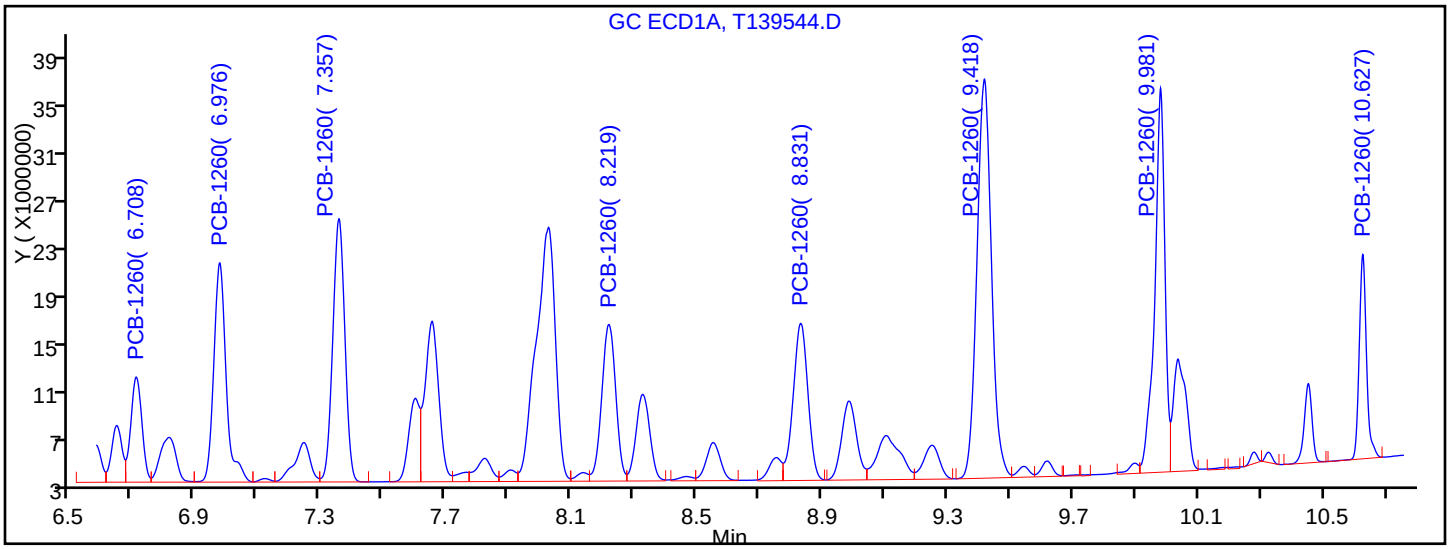
Injection Date:	18-Jan-2018 14:34:07	Instrument ID:	CPESTGC11		
Lims ID:	ICV				
Client ID:					
Operator ID:		ALS Bottle#:	14	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.708	Response = 21291866
6.976	Response = 49515485
7.357	Response = 57978742
8.219	Response = 36478414
8.831	Response = 38206426
9.418	Response = 104470039
9.981	Response = 65332072
10.627	Response = 27060766



Manual Integration Results

6.708	Response = 21291866	
6.976	Response = 49515485	
7.357	Response = 57978742	
8.219	Response = 40096439	M
8.831	Response = 42279402	M
9.418	Response = 105577251	M

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-491295/22 Calibration Date: 01/18/2018 14:34

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T139544.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0168	0.0160		953	1000	-4.7	20.0
PCB-1016 Peak 2	Ave	0.0327	0.0353		1080	1000	7.9	20.0
PCB-1016 Peak 3	Ave	0.0216	0.0234		1090	1000	8.5	20.0
PCB-1016 Peak 4	Ave	0.0708	0.0778		1100	1000	9.8	20.0
PCB-1016 Peak 5	Ave	0.0284	0.0313		1100	1000	9.9	20.0
PCB-1016 Peak 6	Ave	0.0172	0.0188		1090	1000	8.8	20.0
PCB-1016 Peak 7	Ave	0.0295	0.0310		1050	1000	4.8	20.0
PCB-1016 Peak 8	Ave	0.0154	0.0147		950	1000	-5.0	20.0
PCB-1260 Peak 1	Ave	0.0428	0.0433		1010	1000	1.2	20.0
PCB-1260 Peak 2	Ave	0.0779	0.0803		1030	1000	3.0	20.0
PCB-1260 Peak 3	Ave	0.0377	0.0364		966	1000	-3.4	20.0
PCB-1260 Peak 4	Ave	0.0413	0.0422		1020	1000	2.1	20.0
PCB-1260 Peak 5	Ave	0.0888	0.0935		1050	1000	5.3	20.0
PCB-1260 Peak 6	Ave	0.0497	0.0527		1060	1000	6.1	20.0
PCB-1260 Peak 7	Ave	0.0233	0.0244		1050	1000	4.6	20.0
PCB-1260 Peak 8	Ave	0.0234	0.0237		1010	1000	1.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-491295/22 Calibration Date: 01/18/2018 14:34

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T139544.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.46	2.43	2.49
PCB-1016 Peak 2	2.85	2.82	2.88
PCB-1016 Peak 3	3.07	3.04	3.10
PCB-1016 Peak 4	3.37	3.34	3.40
PCB-1016 Peak 5	3.53	3.50	3.56
PCB-1016 Peak 6	3.60	3.57	3.63
PCB-1016 Peak 7	4.01	3.98	4.04
PCB-1016 Peak 8	4.46	4.43	4.49
PCB-1260 Peak 1	5.46	5.44	5.50
PCB-1260 Peak 2	6.21	6.18	6.24
PCB-1260 Peak 3	6.38	6.35	6.41
PCB-1260 Peak 4	6.76	6.73	6.79
PCB-1260 Peak 5	7.29	7.26	7.32
PCB-1260 Peak 6	7.79	7.76	7.82
PCB-1260 Peak 7	7.95	7.92	7.98
PCB-1260 Peak 8	9.08	9.06	9.12

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Jan-2018 14:34:07 ALS Bottle#: 14 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 18-Jan-2018 15:58:50 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: patelji Date: 18-Jan-2018 15:57:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.660	1.663	-0.003	22753073	20.0	20.0	
2	1.393	1.395	-0.002	38486758	20.0	20.0	M
						RPD = 0.00	
5 PCB-1016							M
1	3.273	3.275	-0.002	17742550	1000.0	1052.8	
1	3.789	3.792	-0.003	36257462	1000.0	1137.0	
1	4.367	4.369	-0.002	80688589	1000.0	1088.4	M
1	4.539	4.541	-0.002	31881027	1000.0	1102.1	M
1	4.667	4.668	-0.001	21102986	1000.0	1091.5	M
1	5.136	5.138	-0.002	24307909	1000.0	1074.1	
1	5.289	5.291	-0.002	24747388	1000.0	952.8	
1	5.681	5.683	-0.002	17242023	1000.0	867.7	
		Average of Peak Amounts =				1045.8	
2	2.459	2.461	-0.002	30720103	1000.0	953.0	
2	2.848	2.849	-0.001	67950254	1000.0	1078.9	M
2	3.072	3.073	-0.001	45087155	1000.0	1085.3	M
2	3.374	3.374	0.000	149740358	1000.0	1098.4	M
2	3.526	3.527	-0.001	60140097	1000.0	1099.4	M
2	3.597	3.598	-0.001	36103371	1000.0	1087.9	M
2	4.006	4.007	-0.001	59566961	1000.0	1047.9	M
2	4.456	4.458	-0.002	28246289	1000.0	950.1	
		Average of Peak Amounts =				1050.1	
						RPD = 0.41	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 PCB-1260							M
1	6.708	6.711	-0.003	21291866	1000.0	1071.8	
1	6.976	6.977	-0.001	49515485	1000.0	1069.0	
1	7.357	7.357	0.000	57978742	1000.0	1046.2	
1	8.219	8.219	0.000	40096439	1000.0	1059.1	M
1	8.831	8.833	-0.002	42279402	1000.0	1057.3	M
1	9.418	9.418	0.000	105577251	1000.0	1061.3	M
1	9.981	9.983	-0.002	71271253	1000.0	1059.5	M
1	10.627	10.628	-0.001	27060766	1000.0	1053.9	
		Average of Peak Amounts =				1059.8	
2	5.463	5.465	-0.002	83271044	1000.0	1012.1	M
2	6.207	6.208	-0.001	154425453	1000.0	1030.2	
2	6.383	6.384	-0.001	70124924	1000.0	966.1	
2	6.757	6.758	-0.001	81143843	1000.0	1020.9	
2	7.287	7.288	-0.001	179935908	1000.0	1052.9	
2	7.787	7.788	-0.001	101422099	1000.0	1060.8	
2	7.951	7.953	-0.002	46981564	1000.0	1046.1	
2	9.082	9.085	-0.003	45561855	1000.0	1012.5	
		Average of Peak Amounts =				1025.2	
						RPD = 3.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

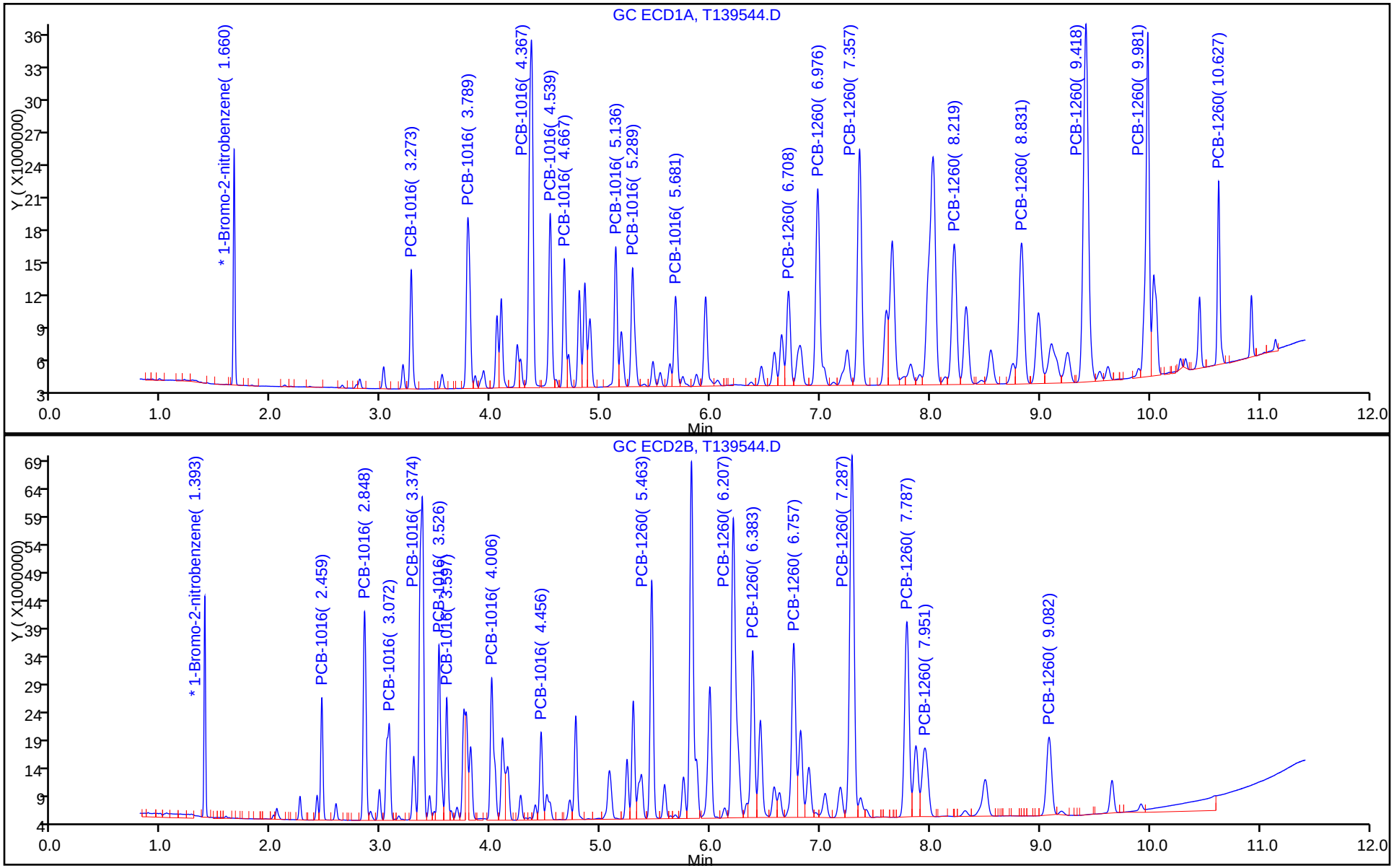
SGPCBICV_00021	Amount Added: 1.00	Units: mL	
SGPCBISTD_00009	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 18-Jan-2018 15:58:59 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

Injection Date:	18-Jan-2018 14:34:07	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

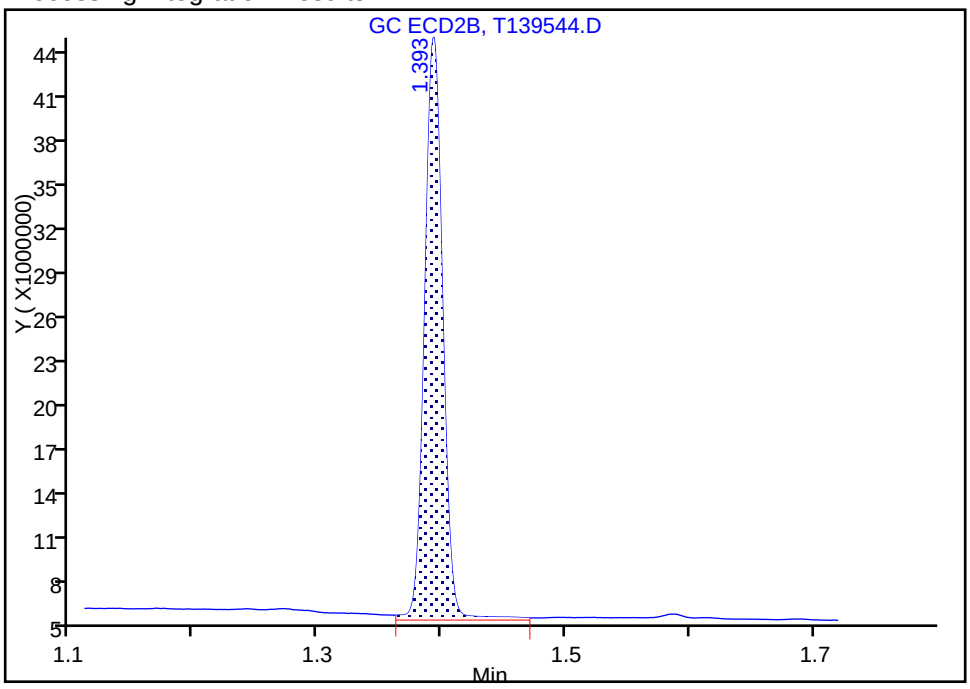
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D		
Injection Date:	18-Jan-2018 14:34:07	Instrument ID:	CPESTGC11
Lims ID:	ICV		
Client ID:			
Operator ID:		ALS Bottle#:	14 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

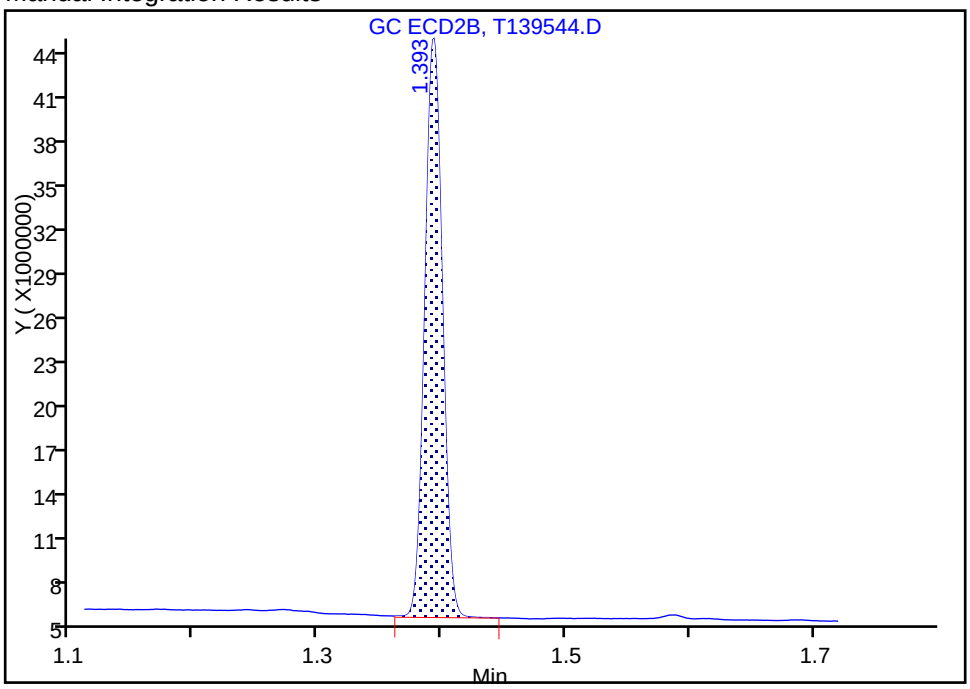
Processing Integration Results

RT: 1.39
Area: 39863179
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 38486758
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 18-Jan-2018 15:57:30

Audit Action: Manually Integrated Audit Reason: Peak not integrated

Report Date: 18-Jan-2018 15:58:59 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

Injection Date: 18-Jan-2018 14:34:07 Instrument ID: CPESTGC11

Lims ID: ICV

Client ID:

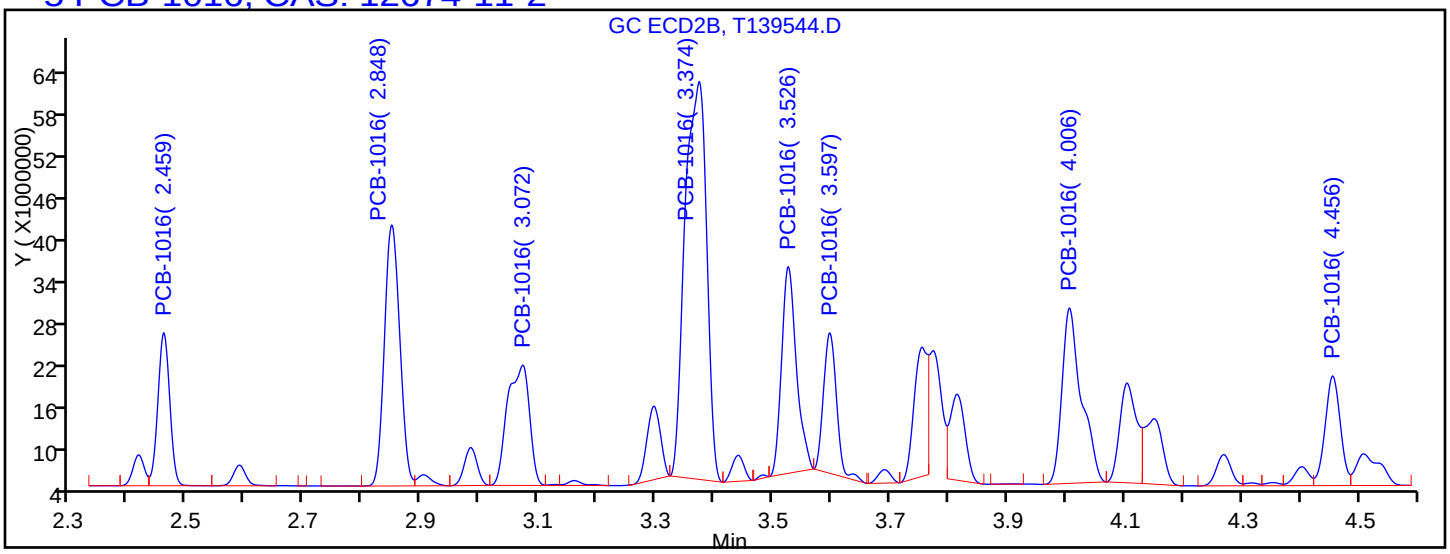
Operator ID: ALS Bottle#: 14 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

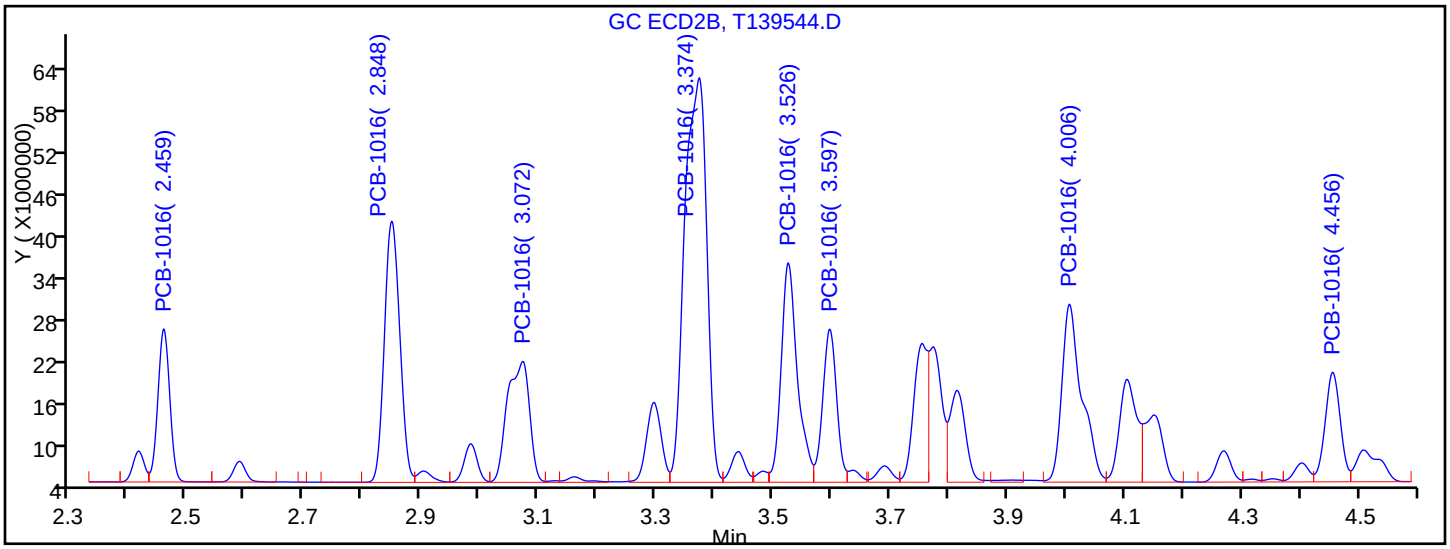
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.459	Response = 30720103
2.848	Response = 67832780
3.072	Response = 44518193
3.374	Response = 144355832
3.526	Response = 51612400
3.597	Response = 30930412
4.006	Response = 57048788
4.456	Response = 28246289



Manual Integration Results

2.459	Response = 30720103	
2.848	Response = 67950254	M
3.072	Response = 45087155	M
3.374	Response = 149740358	M
3.526	Response = 60140097	M
3.597	Response = 36103371	M

Report Date: 18-Jan-2018 15:58:59 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139544.D

Injection Date: 18-Jan-2018 14:34:07 Instrument ID: CPESTGC11

Lims ID: ICV

Client ID:

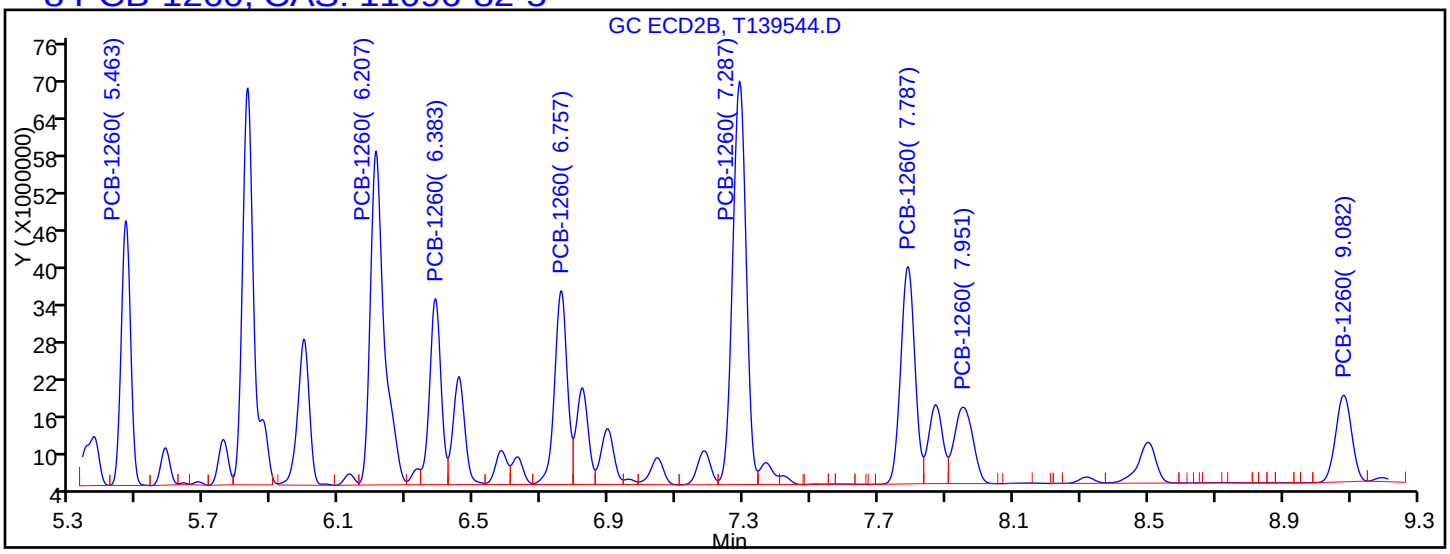
Operator ID: ALS Bottle#: 14 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

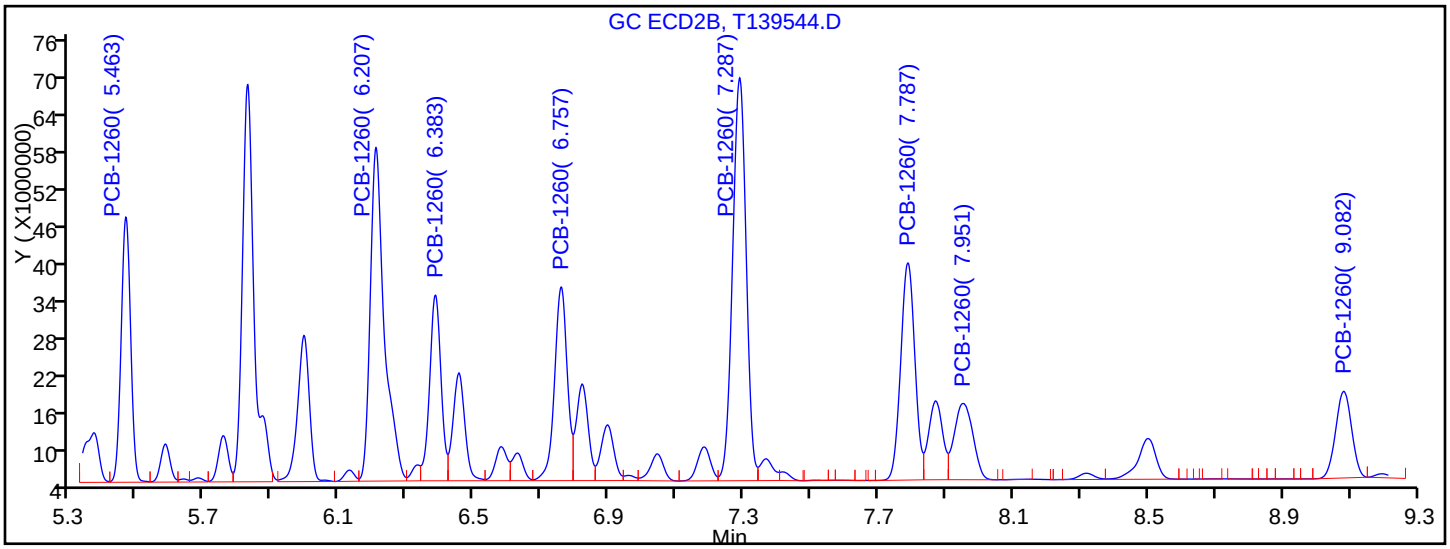
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.463	Response = 82610988
6.207	Response = 154425453
6.383	Response = 70124924
6.757	Response = 81143843
7.287	Response = 179935908
7.787	Response = 101422099
7.951	Response = 46981564
9.082	Response = 45561855



Manual Integration Results

5.463	Response = 83271044	M
6.207	Response = 154425453	
6.383	Response = 70124924	
6.757	Response = 81143843	
7.287	Response = 179935908	
7.787	Response = 101422099	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505165/2 Calibration Date: 03/22/2018 07:05

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142249.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0148	0.0167		1130	1000	13.0	20.0
PCB-1016 Peak 2	Ave	0.0280	0.0316		1130	1000	12.8	20.0
PCB-1016 Peak 3	Ave	0.0652	0.0692		1060	1000	6.1	20.0
PCB-1016 Peak 4	Ave	0.0254	0.0281		1110	1000	10.7	20.0
PCB-1016 Peak 5	Ave	0.0170	0.0189		1110	1000	11.0	20.0
PCB-1016 Peak 6	Ave	0.0199	0.0216		1090	1000	8.5	20.0
PCB-1016 Peak 7	Ave	0.0228	0.0258		1130	1000	13.0	20.0
PCB-1016 Peak 8	Ave	0.0175	0.0199		1140	1000	13.7	20.0
PCB-1260 Peak 1	Ave	0.0175	0.0197		1130	1000	12.8	20.0
PCB-1260 Peak 2	Ave	0.0407	0.0455		1120	1000	11.8	20.0
PCB-1260 Peak 3	Ave	0.0487	0.0530		1090	1000	8.8	20.0
PCB-1260 Peak 4	Ave	0.0333	0.0368		1110	1000	10.5	20.0
PCB-1260 Peak 5	Ave	0.0351	0.0395		1120	1000	12.4	20.0
PCB-1260 Peak 6	Ave	0.0874	0.1009		1150	1000	15.4	20.0
PCB-1260 Peak 7	Ave	0.0591	0.0724		0.0840	1000	22.4*	20.0
PCB-1260 Peak 8	Ave	0.0226	0.0255		1130	1000	12.9	20.0
Tetrachloro-m-xylene	Ave	0.8855	1.003		113	100	13.2	20.0
DCB Decachlorobiphenyl	Ave	0.8130	0.8804		108	100	8.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505165/2 Calibration Date: 03/22/2018 07:05

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142249.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.93	2.90	2.96
PCB-1016 Peak 2	3.42	3.39	3.45
PCB-1016 Peak 3	3.97	3.94	4.00
PCB-1016 Peak 4	4.14	4.11	4.17
PCB-1016 Peak 5	4.26	4.23	4.29
PCB-1016 Peak 6	4.71	4.68	4.74
PCB-1016 Peak 7	4.86	4.83	4.89
PCB-1016 Peak 8	5.23	5.20	5.26
PCB-1260 Peak 1	6.15	6.12	6.18
PCB-1260 Peak 2	6.38	6.35	6.41
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.51	7.48	7.54
PCB-1260 Peak 5	8.06	8.03	8.09
PCB-1260 Peak 6	8.60	8.57	8.63
PCB-1260 Peak 7	9.39	9.36	9.42
PCB-1260 Peak 8	10.23	10.20	10.26
Tetrachloro-m-xylene	2.35	2.32	2.38
DCB Decachlorobiphenyl	10.80	10.77	10.83

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142249.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 07:05:13 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: kapoors Date: 22-Mar-2018 07:50:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.461	1.461	0.000	36089513	20.0	20.0	
2	1.269	1.269	0.000	57031058	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.352	2.352	0.000	180921122	100.0	113.2	
2	1.890	1.890	0.000	280626993	100.0	109.2	
						RPD = 3.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	2.931	2.931	0.000	30195221	1000.0	1129.6	
1	3.419	3.419	0.000	57061944	1000.0	1128.2	
1	3.972	3.972	0.000	124780909	1000.0	1061.2	
1	4.136	4.136	0.000	50785899	1000.0	1106.8	
1	4.257	4.257	0.000	34028185	1000.0	1109.6	M
1	4.711	4.711	0.000	38948485	1000.0	1085.1	
1	4.860	4.860	0.000	46542520	1000.0	1129.7	
1	5.230	5.230	0.000	35850586	1000.0	1137.4	
		Average of Peak Amounts =				1111.0	
2	2.257	2.257	0.000	51211528	1000.0	1072.1	
2	2.626	2.626	0.000	103632290	1000.0	1110.4	
2	2.837	2.837	0.000	67190975	1000.0	1091.5	
2	3.127	3.127	0.000	212332089	1000.0	1051.1	
2	3.273	3.273	0.000	87792551	1000.0	1083.0	
2	3.341	3.341	0.000	58412217	1000.0	1187.8	
2	3.737	3.737	0.000	87032525	1000.0	1033.2	
2	4.174	4.174	0.000	48999410	1000.0	1112.2	
		Average of Peak Amounts =				1092.7	
						RPD = 1.66	
8 PCB-1260							
1	6.149	6.149	0.000	35550956	1000.0	1128.2	
1	6.382	6.382	0.000	82112255	1000.0	1117.6	
1	6.732	6.732	0.000	95678426	1000.0	1088.5	
1	7.506	7.506	0.000	66362712	1000.0	1105.1	
1	8.055	8.055	0.000	71317044	1000.0	1124.4	
1	8.602	8.602	0.000	182106523	1000.0	1154.1	
1	0.000	9.392	0.000	0	1000.0	0	
1	10.229	10.229	0.000	45998820	1000.0	1129.5	
		Average of Peak Amounts =				1121.1	
2	5.157	5.157	0.000	125655884	1000.0	1030.7	
2	5.841	5.841	0.000	227269625	1000.0	1023.1	
2	6.002	6.002	0.000	108705196	1000.0	1010.6	
2	6.344	6.344	0.000	113741828	1000.0	965.7	
2	6.836	6.836	0.000	271445967	1000.0	1071.9	
2	7.297	7.297	0.000	141756217	1000.0	1000.5	
2	7.452	7.452	0.000	73838250	1000.0	1109.5	
2	8.509	8.509	0.000	65386195	1000.0	980.6	
		Average of Peak Amounts =				1024.1	
						RPD = 9.04	
$ 11 DCB Decachlorobiphenyl							
1	10.798	10.798	0.000	158867216	100.0	108.3	
2	9.521	9.521	0.000	249378672	100.0	112.5	
						RPD = 3.80	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

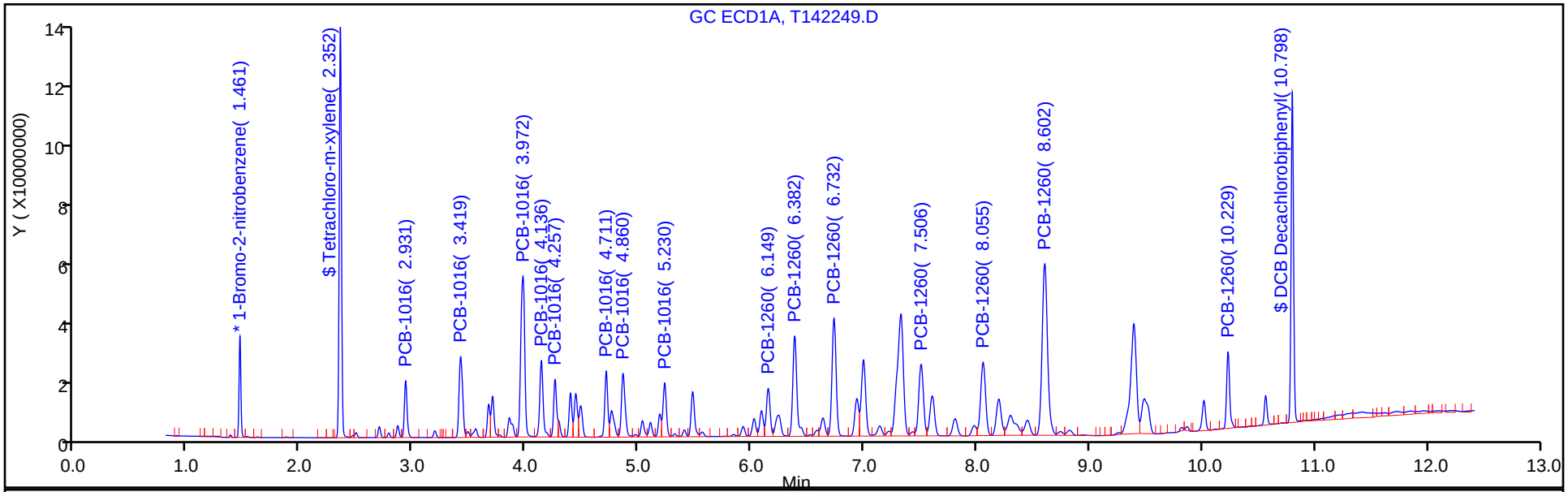
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

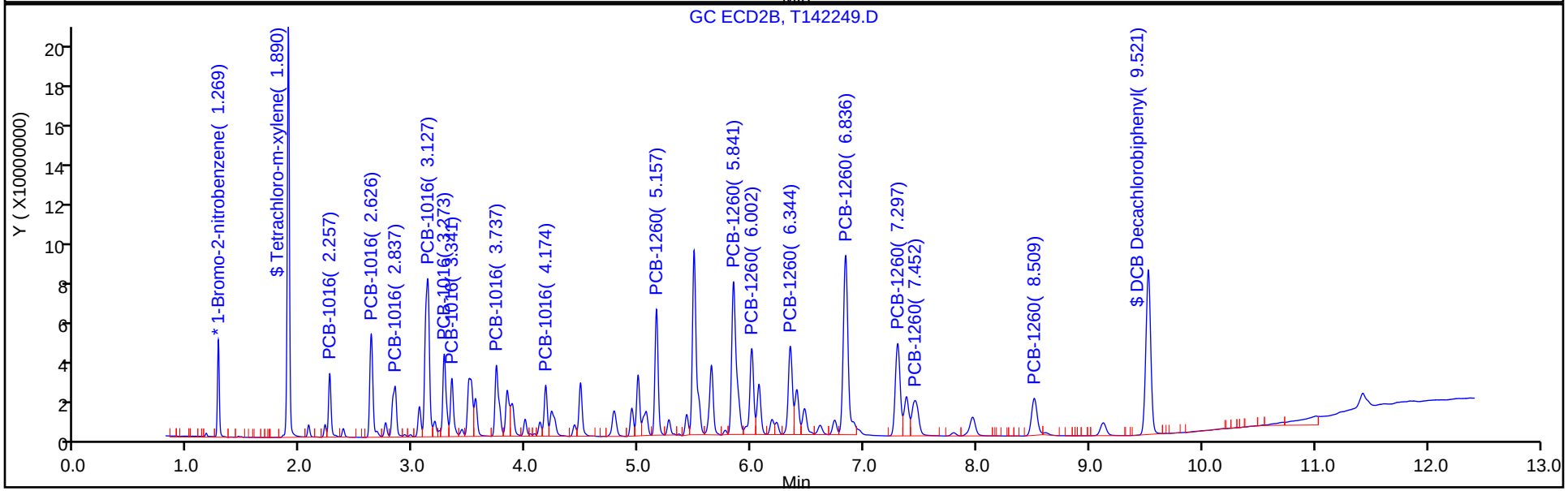
Report Date: 22-Mar-2018 15:07:26 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142249.D

Injection Date:	22-Mar-2018 07:05:13	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





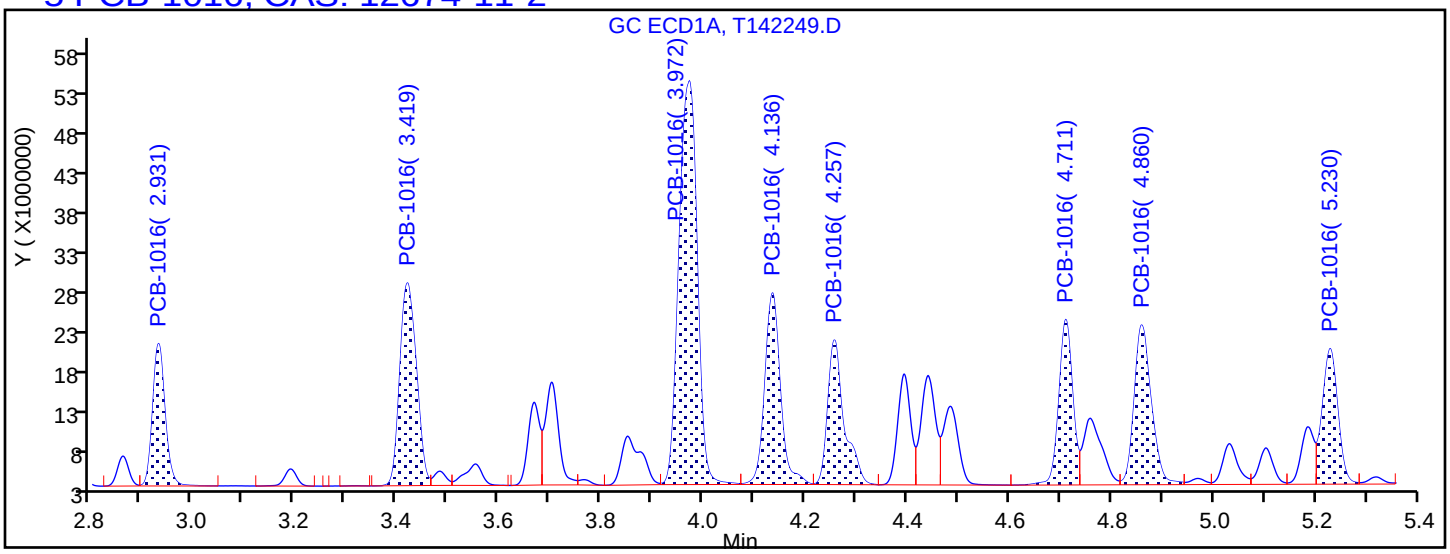
Report Date: 22-Mar-2018 15:07:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142249.D

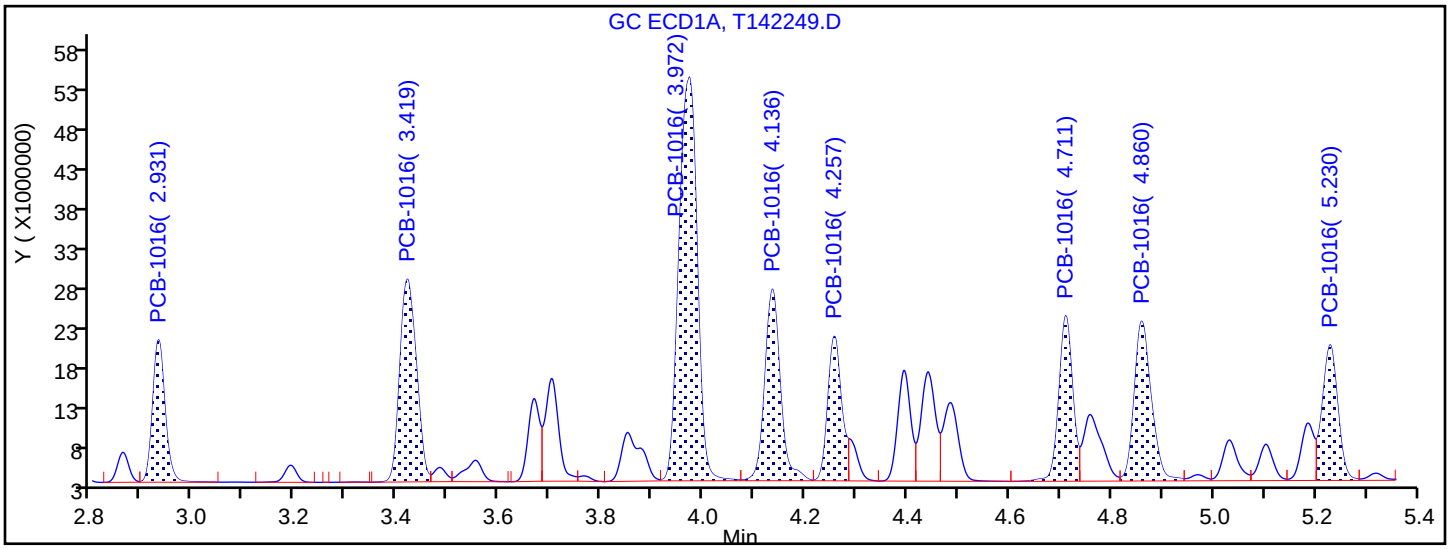
Injection Date:	22-Mar-2018 07:05:13	Instrument ID:	CPESTGC11		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD1A		

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.931	Response = 30195221
3.419	Response = 57061944
3.972	Response = 124780909
4.136	Response = 50785899
4.257	Response = 40361014
4.711	Response = 38948485
4.860	Response = 46542520
5.230	Response = 35850586



Manual Integration Results

2.931	Response = 30195221
3.419	Response = 57061944
3.972	Response = 124780909
4.136	Response = 50785899
4.257	Response = 34028185
4.711	Response = 38948485

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505165/2 Calibration Date: 03/22/2018 07:05

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142249.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0168	0.0180		1070	1000	7.2	20.0
PCB-1016 Peak 2	Ave	0.0327	0.0363		1110	1000	11.0	20.0
PCB-1016 Peak 3	Ave	0.0216	0.0236		1090	1000	9.1	20.0
PCB-1016 Peak 4	Ave	0.0708	0.0745		1050	1000	5.1	20.0
PCB-1016 Peak 5	Ave	0.0284	0.0308		1080	1000	8.3	20.0
PCB-1016 Peak 6	Ave	0.0172	0.0205		1190	1000	18.8	20.0
PCB-1016 Peak 7	Ave	0.0295	0.0305		1030	1000	3.3	20.0
PCB-1016 Peak 8	Ave	0.0154	0.0172		1110	1000	11.2	20.0
PCB-1260 Peak 1	Ave	0.0428	0.0441		1030	1000	3.1	20.0
PCB-1260 Peak 2	Ave	0.0779	0.0797		1020	1000	2.3	20.0
PCB-1260 Peak 3	Ave	0.0377	0.0381		1010	1000	1.1	20.0
PCB-1260 Peak 4	Ave	0.0413	0.0399		966	1000	-3.4	20.0
PCB-1260 Peak 5	Ave	0.0888	0.0952		1070	1000	7.2	20.0
PCB-1260 Peak 6	Ave	0.0497	0.0497		1000	1000	0.0	20.0
PCB-1260 Peak 7	Ave	0.0233	0.0259		1110	1000	10.9	20.0
PCB-1260 Peak 8	Ave	0.0234	0.0229		981	1000	-1.9	20.0
Tetrachloro-m-xylene	Ave	0.9009	0.9841		109	100	9.2	20.0
DCB Decachlorobiphenyl	Ave	0.7775	0.8745		112	100	12.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505165/2 Calibration Date: 03/22/2018 07:05

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142249.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.26	2.23	2.29
PCB-1016 Peak 2	2.63	2.60	2.66
PCB-1016 Peak 3	2.84	2.81	2.87
PCB-1016 Peak 4	3.13	3.10	3.16
PCB-1016 Peak 5	3.27	3.24	3.30
PCB-1016 Peak 6	3.34	3.31	3.37
PCB-1016 Peak 7	3.74	3.71	3.77
PCB-1016 Peak 8	4.17	4.14	4.20
PCB-1260 Peak 1	5.16	5.13	5.19
PCB-1260 Peak 2	5.84	5.81	5.87
PCB-1260 Peak 3	6.00	5.97	6.03
PCB-1260 Peak 4	6.34	6.31	6.37
PCB-1260 Peak 5	6.84	6.81	6.87
PCB-1260 Peak 6	7.30	7.27	7.33
PCB-1260 Peak 7	7.45	7.42	7.48
PCB-1260 Peak 8	8.51	8.48	8.54
Tetrachloro-m-xylene	1.89	1.86	1.92
DCB Decachlorobiphenyl	9.52	9.42	9.62

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142249.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Mar-2018 07:05:13 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub2

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: kapoors Date: 22-Mar-2018 07:50:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.461	1.461	0.000	36089513	20.0	20.0	
2	1.269	1.269	0.000	57031058	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.352	2.352	0.000	180921122	100.0	113.2	
2	1.890	1.890	0.000	280626993	100.0	109.2	
						RPD = 3.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	2.931	2.931	0.000	30195221	1000.0	1129.6	
1	3.419	3.419	0.000	57061944	1000.0	1128.2	
1	3.972	3.972	0.000	124780909	1000.0	1061.2	
1	4.136	4.136	0.000	50785899	1000.0	1106.8	
1	4.257	4.257	0.000	34028185	1000.0	1109.6	M
1	4.711	4.711	0.000	38948485	1000.0	1085.1	
1	4.860	4.860	0.000	46542520	1000.0	1129.7	
1	5.230	5.230	0.000	35850586	1000.0	1137.4	
		Average of Peak Amounts =				1111.0	
2	2.257	2.257	0.000	51211528	1000.0	1072.1	
2	2.626	2.626	0.000	103632290	1000.0	1110.4	
2	2.837	2.837	0.000	67190975	1000.0	1091.5	
2	3.127	3.127	0.000	212332089	1000.0	1051.1	
2	3.273	3.273	0.000	87792551	1000.0	1083.0	
2	3.341	3.341	0.000	58412217	1000.0	1187.8	
2	3.737	3.737	0.000	87032525	1000.0	1033.2	
2	4.174	4.174	0.000	48999410	1000.0	1112.2	
		Average of Peak Amounts =				1092.7	
						RPD = 1.66	
8 PCB-1260							
1	6.149	6.149	0.000	35550956	1000.0	1128.2	
1	6.382	6.382	0.000	82112255	1000.0	1117.6	
1	6.732	6.732	0.000	95678426	1000.0	1088.5	
1	7.506	7.506	0.000	66362712	1000.0	1105.1	
1	8.055	8.055	0.000	71317044	1000.0	1124.4	
1	8.602	8.602	0.000	182106523	1000.0	1154.1	
1	0.000	9.392	0.000	0	1000.0	0	
1	10.229	10.229	0.000	45998820	1000.0	1129.5	
		Average of Peak Amounts =				1121.1	
2	5.157	5.157	0.000	125655884	1000.0	1030.7	
2	5.841	5.841	0.000	227269625	1000.0	1023.1	
2	6.002	6.002	0.000	108705196	1000.0	1010.6	
2	6.344	6.344	0.000	113741828	1000.0	965.7	
2	6.836	6.836	0.000	271445967	1000.0	1071.9	
2	7.297	7.297	0.000	141756217	1000.0	1000.5	
2	7.452	7.452	0.000	73838250	1000.0	1109.5	
2	8.509	8.509	0.000	65386195	1000.0	980.6	
		Average of Peak Amounts =				1024.1	
						RPD = 9.04	
$ 11 DCB Decachlorobiphenyl							
1	10.798	10.798	0.000	158867216	100.0	108.3	
2	9.521	9.521	0.000	249378672	100.0	112.5	
						RPD = 3.80	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

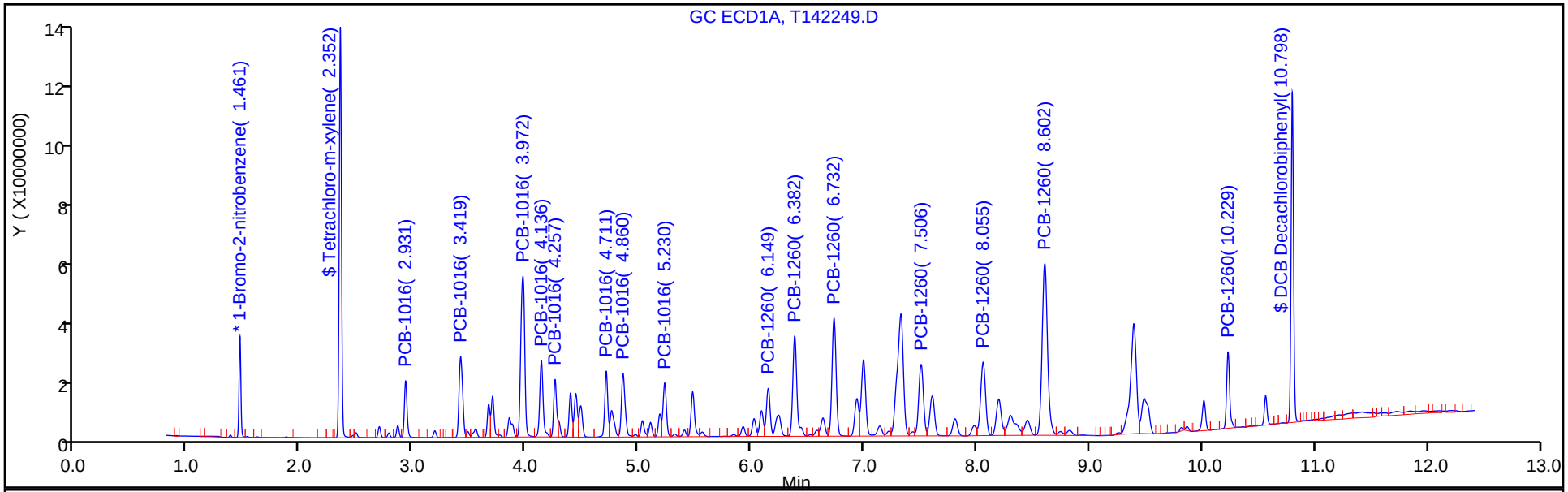
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

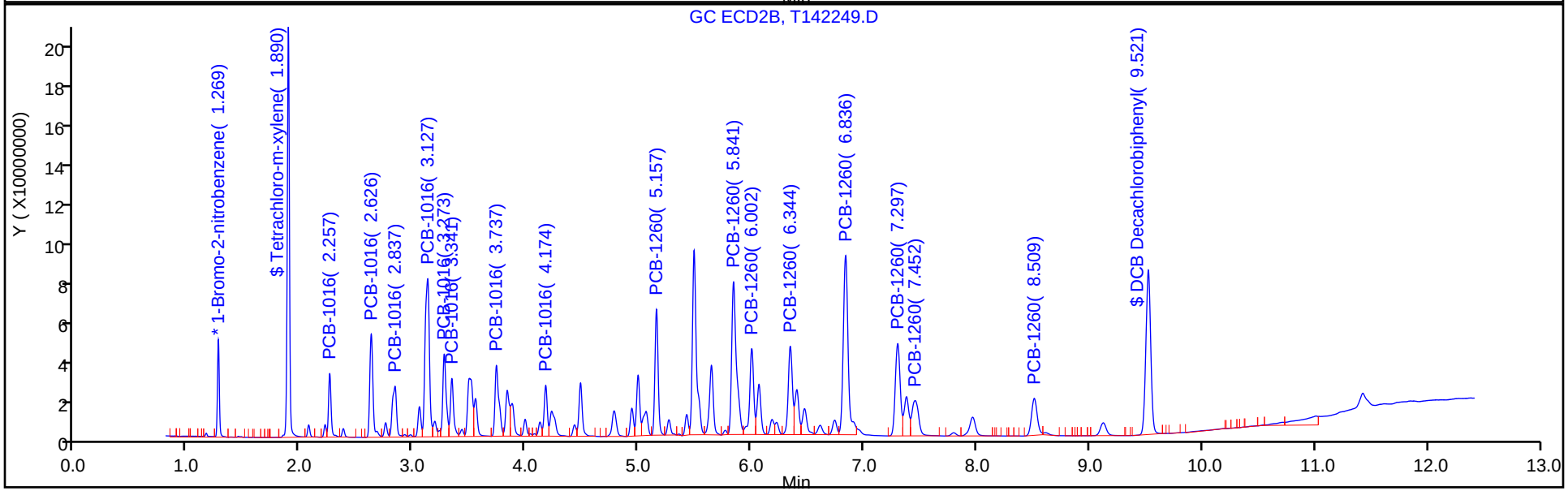
Report Date: 22-Mar-2018 15:07:28 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142249.D

Injection Date:	22-Mar-2018 07:05:13	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142271.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.8855	0.9795		111	100	10.6	20.0
DCB Decachlorobiphenyl	Ave	0.8130	0.9193		113	100	13.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142271.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.35	2.32	2.38
DCB Decachlorobiphenyl	10.78	10.75	10.81

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D
Lims ID: CCV AR1254
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 17:36:12 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-024
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 17:54:05 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 17:53:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.458	1.458	0.000	41352233	20.0	20.0	
2	1.268	1.268	0.000	61771159	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.348	2.348	0.000	202516140	100.0	110.6	
2	1.889	1.889	0.000	312730746	100.0	112.4	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
7 PCB-1254							M
1	4.706	4.706	0.000	23301852	1000.0	1180.0	M
1	5.223	5.223	0.000	71136432	1000.0	1153.5	
1	5.473	5.473	0.000	80183085	1000.0	1105.6	
1	5.919	5.919	0.000	63961843	1000.0	1102.5	
1	6.082	6.082	0.000	121072001	1000.0	1085.3	
1	6.433	6.433	0.000	88779002	1000.0	1081.0	
1	6.984	6.984	0.000	77748553	1000.0	1073.2	
1	7.320	7.320	0.000	128900350	1000.0	1104.5	
		Average of Peak Amounts =				1110.7	
2	3.735	3.735	0.000	38457176	1000.0	1043.0	
2	4.171	4.171	0.000	104533246	1000.0	1082.0	
2	4.480	4.480	0.000	142686920	1000.0	1059.5	
2	4.793	4.793	0.000	109848341	1000.0	1041.2	
2	4.936	4.936	0.000	190137260	1000.0	1034.5	
2	5.265	5.265	0.000	158027997	1000.0	1081.0	
2	5.488	5.488	0.000	133567241	1000.0	1015.2	
2	5.839	5.839	0.000	200412927	1000.0	1029.3	
		Average of Peak Amounts =				1048.2	
						RPD = 5.79	
$ 11 DCB Decachlorobiphenyl							
1	10.784	10.784	0.000	190065446	100.0	113.1	
2	9.520	9.520	0.000	284682831	100.0	118.6	
						RPD = 4.74	
S 12 Polychlorinated biphenyls, Total							
1						1110.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

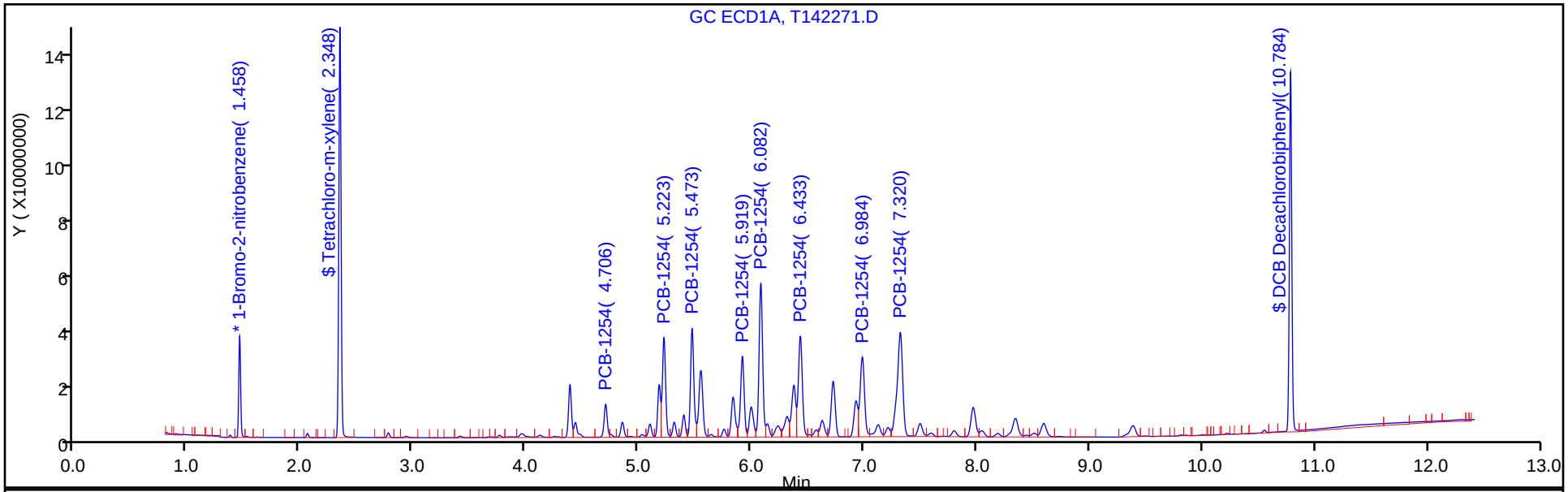
SG1254L4_00024	Amount Added: 1.00	Units: mL	
SGPCBISTD_00010	Amount Added: 20.00	Units: uL	Run Reagent

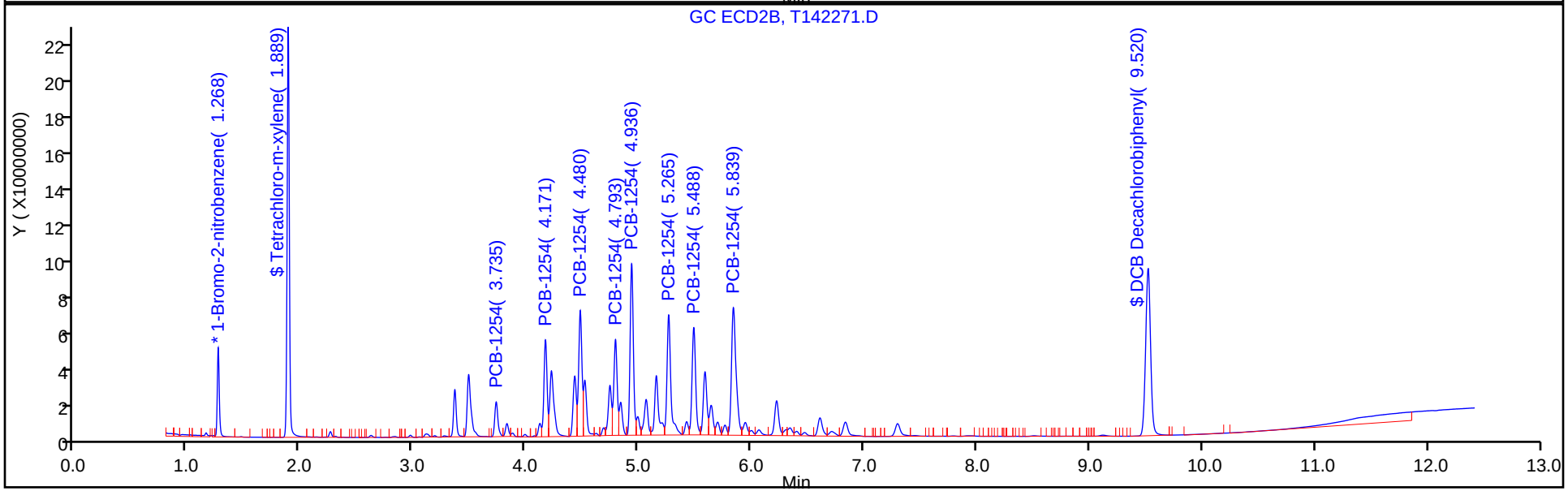
Report Date: 22-Mar-2018 17:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D

Injection Date:	22-Mar-2018 17:36:12	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCV AR1254			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 15:47

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 15:47

Lab File ID: T142271.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0096	0.0113		1180	1000	18.0	20.0
PCB-1254 Peak 2	Ave	0.0298	0.0344		1150	1000	15.3	20.0
PCB-1254 Peak 3	Ave	0.0351	0.0388		1110	1000	10.6	20.0
PCB-1254 Peak 4	Ave	0.0281	0.0309		1100	1000	10.3	20.0
PCB-1254 Peak 5	Ave	0.0540	0.0586		1090	1000	8.5	20.0
PCB-1254 Peak 6	Ave	0.0397	0.0429		1080	1000	8.1	20.0
PCB-1254 Peak 7	Ave	0.0350	0.0376		1070	1000	7.3	20.0
PCB-1254 Peak 8	Ave	0.0564	0.0623		1100	1000	10.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 15:47

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/18/2018 15:47

Lab File ID: T142271.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	4.71	4.68	4.74
PCB-1254 Peak 2	5.22	5.19	5.25
PCB-1254 Peak 3	5.47	5.44	5.50
PCB-1254 Peak 4	5.92	5.89	5.95
PCB-1254 Peak 5	6.08	6.05	6.11
PCB-1254 Peak 6	6.43	6.40	6.46
PCB-1254 Peak 7	6.98	6.95	7.01
PCB-1254 Peak 8	7.32	7.29	7.35

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D
Lims ID: CCV AR1254
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 17:36:12 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-024
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 17:54:05 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 17:53:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.458	1.458	0.000	41352233	20.0	20.0	
2	1.268	1.268	0.000	61771159	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.348	2.348	0.000	202516140	100.0	110.6	
2	1.889	1.889	0.000	312730746	100.0	112.4	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
7 PCB-1254							M
1	4.706	4.706	0.000	23301852	1000.0	1180.0	M
1	5.223	5.223	0.000	71136432	1000.0	1153.5	
1	5.473	5.473	0.000	80183085	1000.0	1105.6	
1	5.919	5.919	0.000	63961843	1000.0	1102.5	
1	6.082	6.082	0.000	121072001	1000.0	1085.3	
1	6.433	6.433	0.000	88779002	1000.0	1081.0	
1	6.984	6.984	0.000	77748553	1000.0	1073.2	
1	7.320	7.320	0.000	128900350	1000.0	1104.5	
		Average of Peak Amounts =				1110.7	
2	3.735	3.735	0.000	38457176	1000.0	1043.0	
2	4.171	4.171	0.000	104533246	1000.0	1082.0	
2	4.480	4.480	0.000	142686920	1000.0	1059.5	
2	4.793	4.793	0.000	109848341	1000.0	1041.2	
2	4.936	4.936	0.000	190137260	1000.0	1034.5	
2	5.265	5.265	0.000	158027997	1000.0	1081.0	
2	5.488	5.488	0.000	133567241	1000.0	1015.2	
2	5.839	5.839	0.000	200412927	1000.0	1029.3	
		Average of Peak Amounts =				1048.2	
						RPD = 5.79	
$ 11 DCB Decachlorobiphenyl							
1	10.784	10.784	0.000	190065446	100.0	113.1	
2	9.520	9.520	0.000	284682831	100.0	118.6	
						RPD = 4.74	
S 12 Polychlorinated biphenyls, Total							
1						1110.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

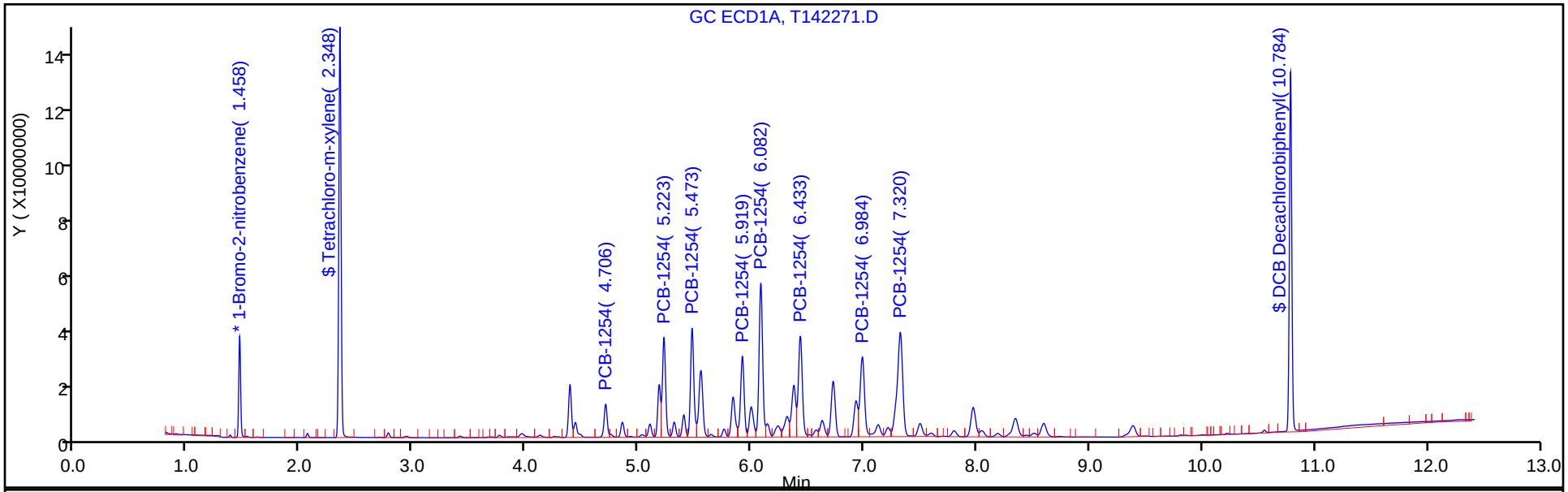
SG1254L4_00024	Amount Added: 1.00	Units: mL	
SGPCBISTD_00010	Amount Added: 20.00	Units: uL	Run Reagent

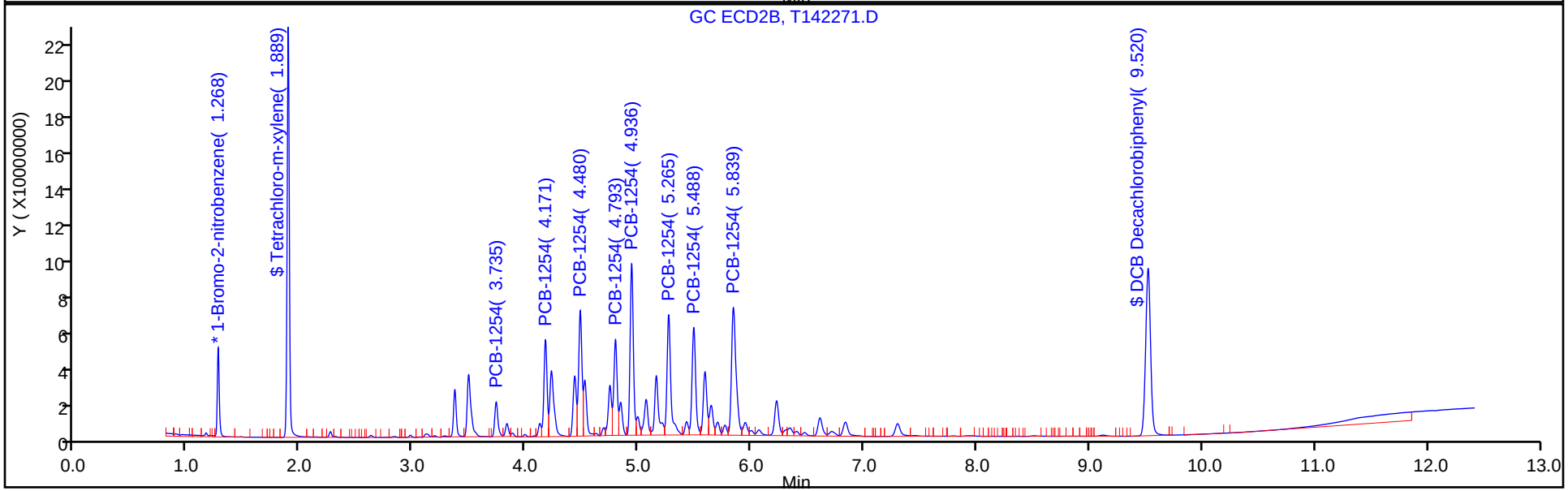
Report Date: 22-Mar-2018 17:54:05 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D

Injection Date:	22-Mar-2018 17:36:12	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCV AR1254			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 22-Mar-2018 17:54:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D

Injection Date: 22-Mar-2018 17:36:12 Instrument ID: CPESTGC11

Lims ID: CCV AR1254

Client ID:

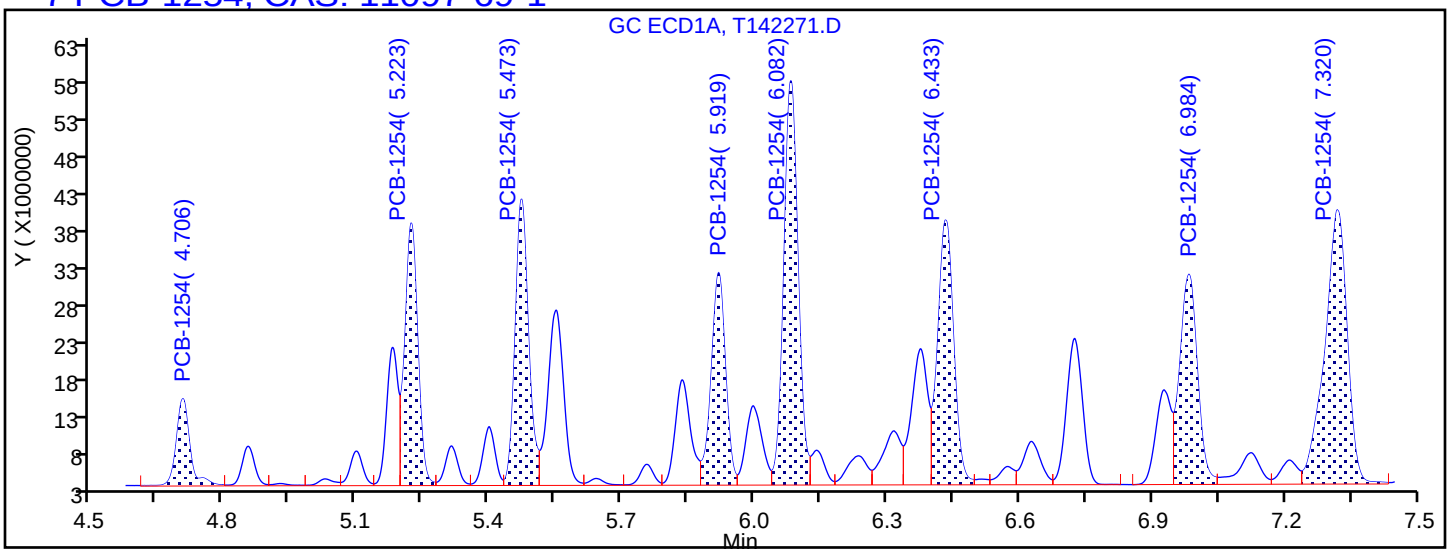
Operator ID: ALS Bottle#: 24 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

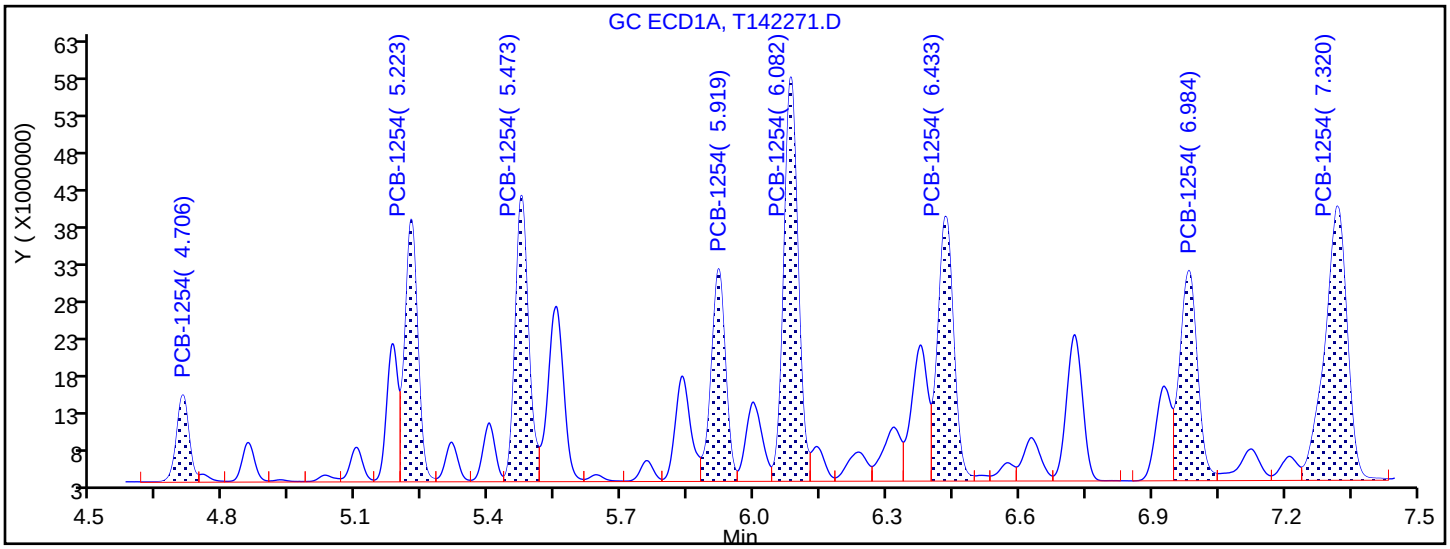
Column: Detector GC ECD1A

7 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.706	Response = 25211853
5.223	Response = 71136432
5.473	Response = 80183085
5.919	Response = 63961843
6.082	Response = 121072001
6.433	Response = 88779002
6.984	Response = 77748553
7.320	Response = 128900350



Manual Integration Results

4.706	Response = 23301852	M
5.223	Response = 71136432	
5.473	Response = 80183085	
5.919	Response = 63961843	
6.082	Response = 121072001	
6.433	Response = 88779002	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142271.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.9009	1.013		112	100	12.4	20.0
DCB Decachlorobiphenyl	Ave	0.7775	0.9217		119	100	18.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 12:51

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 14:19

Lab File ID: T142271.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.89	1.86	1.92
DCB Decachlorobiphenyl	9.52	9.42	9.62

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D
Lims ID: CCV AR1254
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 17:36:12 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-024
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 17:54:05 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 17:53:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.458	1.458	0.000	41352233	20.0	20.0	
2	1.268	1.268	0.000	61771159	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.348	2.348	0.000	202516140	100.0	110.6	
2	1.889	1.889	0.000	312730746	100.0	112.4	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
7 PCB-1254							M
1	4.706	4.706	0.000	23301852	1000.0	1180.0	M
1	5.223	5.223	0.000	71136432	1000.0	1153.5	
1	5.473	5.473	0.000	80183085	1000.0	1105.6	
1	5.919	5.919	0.000	63961843	1000.0	1102.5	
1	6.082	6.082	0.000	121072001	1000.0	1085.3	
1	6.433	6.433	0.000	88779002	1000.0	1081.0	
1	6.984	6.984	0.000	77748553	1000.0	1073.2	
1	7.320	7.320	0.000	128900350	1000.0	1104.5	
		Average of Peak Amounts =				1110.7	
2	3.735	3.735	0.000	38457176	1000.0	1043.0	
2	4.171	4.171	0.000	104533246	1000.0	1082.0	
2	4.480	4.480	0.000	142686920	1000.0	1059.5	
2	4.793	4.793	0.000	109848341	1000.0	1041.2	
2	4.936	4.936	0.000	190137260	1000.0	1034.5	
2	5.265	5.265	0.000	158027997	1000.0	1081.0	
2	5.488	5.488	0.000	133567241	1000.0	1015.2	
2	5.839	5.839	0.000	200412927	1000.0	1029.3	
		Average of Peak Amounts =				1048.2	
						RPD = 5.79	
$ 11 DCB Decachlorobiphenyl							
1	10.784	10.784	0.000	190065446	100.0	113.1	
2	9.520	9.520	0.000	284682831	100.0	118.6	
						RPD = 4.74	
S 12 Polychlorinated biphenyls, Total							
1						1110.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

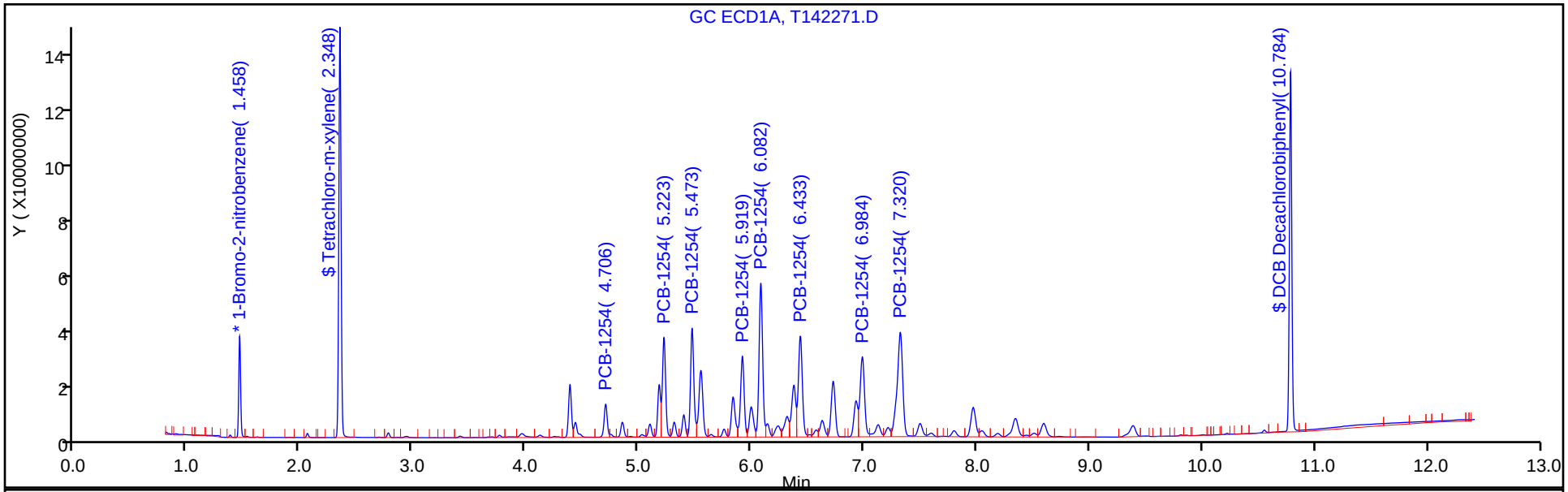
SG1254L4_00024	Amount Added: 1.00	Units: mL	
SGPCBISTD_00010	Amount Added: 20.00	Units: uL	Run Reagent

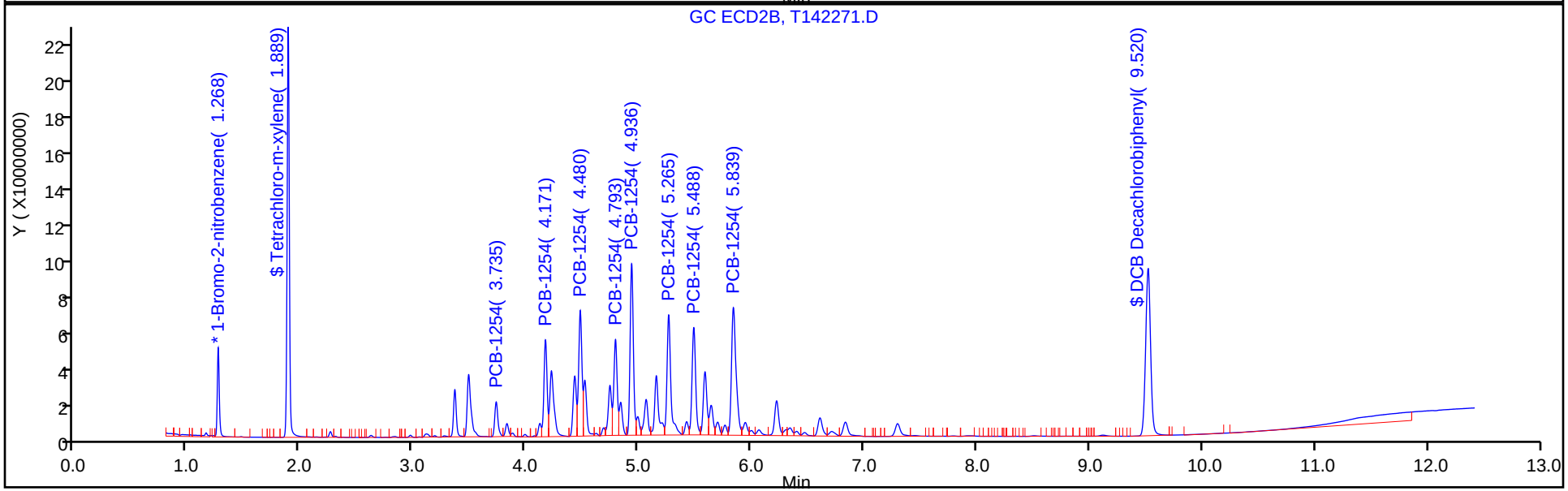
Report Date: 22-Mar-2018 17:54:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D

Injection Date:	22-Mar-2018 17:36:12	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCV AR1254			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 15:47

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 15:47

Lab File ID: T142271.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0119	0.0125		1040	1000	4.3	20.0
PCB-1254 Peak 2	Ave	0.0313	0.0339		1080	1000	8.2	20.0
PCB-1254 Peak 3	Ave	0.0436	0.0462		1060	1000	6.0	20.0
PCB-1254 Peak 4	Ave	0.0342	0.0356		1040	1000	4.1	20.0
PCB-1254 Peak 5	Ave	0.0595	0.0616		1030	1000	3.5	20.0
PCB-1254 Peak 6	Ave	0.0473	0.0512		1080	1000	8.1	20.0
PCB-1254 Peak 7	Ave	0.0426	0.0433		1020	1000	1.5	20.0
PCB-1254 Peak 8	Ave	0.0630	0.0649		1030	1000	2.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCV 460-505165/24 Calibration Date: 03/22/2018 17:36

Instrument ID: CPESTGC11 Calib Start Date: 01/18/2018 15:47

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 01/18/2018 15:47

Lab File ID: T142271.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	3.74	3.71	3.77
PCB-1254 Peak 2	4.17	4.14	4.20
PCB-1254 Peak 3	4.48	4.45	4.51
PCB-1254 Peak 4	4.79	4.76	4.82
PCB-1254 Peak 5	4.94	4.91	4.97
PCB-1254 Peak 6	5.27	5.24	5.30
PCB-1254 Peak 7	5.49	5.46	5.52
PCB-1254 Peak 8	5.84	5.81	5.87

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D
Lims ID: CCV AR1254
Client ID:
Sample Type: CCV
Inject. Date: 22-Mar-2018 17:36:12 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069120-024
Operator ID: Instrument ID: CPESTGC11
Sublist: chrom-8082 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 17:54:05 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 17:53:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.458	1.458	0.000	41352233	20.0	20.0	
2	1.268	1.268	0.000	61771159	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.348	2.348	0.000	202516140	100.0	110.6	
2	1.889	1.889	0.000	312730746	100.0	112.4	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
7 PCB-1254							M
1	4.706	4.706	0.000	23301852	1000.0	1180.0	M
1	5.223	5.223	0.000	71136432	1000.0	1153.5	
1	5.473	5.473	0.000	80183085	1000.0	1105.6	
1	5.919	5.919	0.000	63961843	1000.0	1102.5	
1	6.082	6.082	0.000	121072001	1000.0	1085.3	
1	6.433	6.433	0.000	88779002	1000.0	1081.0	
1	6.984	6.984	0.000	77748553	1000.0	1073.2	
1	7.320	7.320	0.000	128900350	1000.0	1104.5	
		Average of Peak Amounts =				1110.7	
2	3.735	3.735	0.000	38457176	1000.0	1043.0	
2	4.171	4.171	0.000	104533246	1000.0	1082.0	
2	4.480	4.480	0.000	142686920	1000.0	1059.5	
2	4.793	4.793	0.000	109848341	1000.0	1041.2	
2	4.936	4.936	0.000	190137260	1000.0	1034.5	
2	5.265	5.265	0.000	158027997	1000.0	1081.0	
2	5.488	5.488	0.000	133567241	1000.0	1015.2	
2	5.839	5.839	0.000	200412927	1000.0	1029.3	
		Average of Peak Amounts =				1048.2	
						RPD = 5.79	
$ 11 DCB Decachlorobiphenyl							
1	10.784	10.784	0.000	190065446	100.0	113.1	
2	9.520	9.520	0.000	284682831	100.0	118.6	
						RPD = 4.74	
S 12 Polychlorinated biphenyls, Total							
1						1110.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

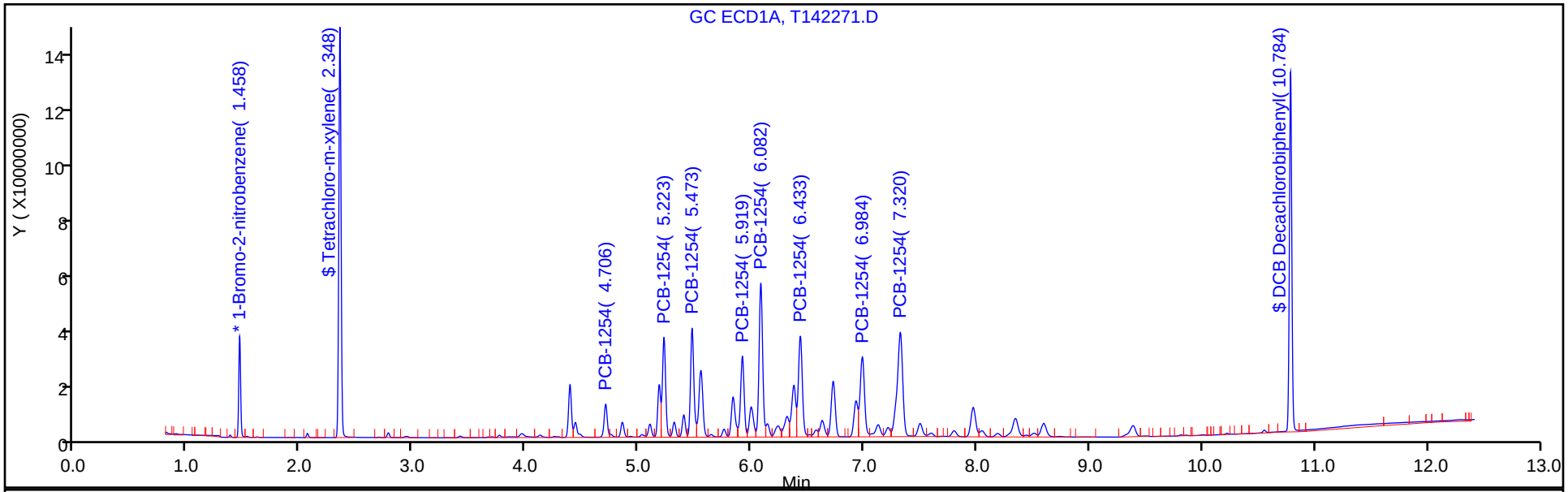
SG1254L4_00024	Amount Added: 1.00	Units: mL	
SGPCBISTD_00010	Amount Added: 20.00	Units: uL	Run Reagent

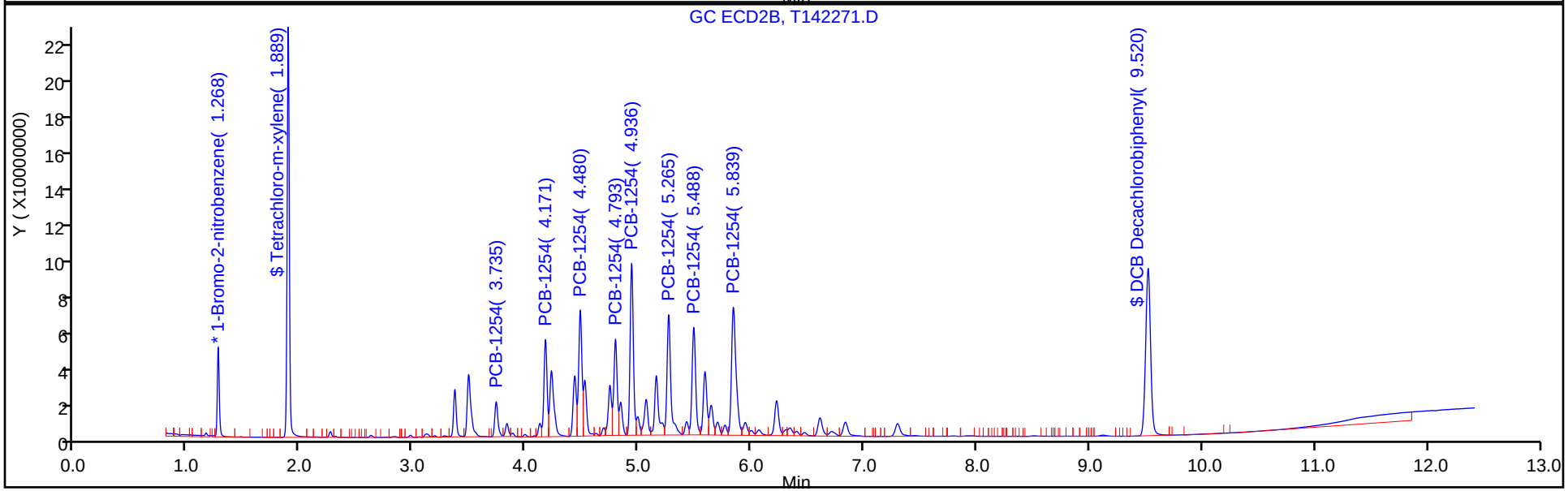
Report Date: 22-Mar-2018 17:54:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142271.D

Injection Date:	22-Mar-2018 17:36:12	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	CCV AR1254			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-487360/7 Calibration Date: 12/27/2017 14:15

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R011793.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0208	0.0210		1010	1000	0.9	20.0
PCB-1016 Peak 2	Ave	0.0430	0.0457		1060	1000	6.2	20.0
PCB-1016 Peak 3	Ave	0.0812	0.0845		1040	1000	4.1	20.0
PCB-1016 Peak 4	Ave	0.0349	0.0371		1060	1000	6.3	20.0
PCB-1016 Peak 5	Ave	0.0270	0.0293		1090	1000	8.6	20.0
PCB-1016 Peak 6	Ave	0.0266	0.0266		1000	1000	0.0	20.0
PCB-1016 Peak 7	Ave	0.0276	0.0260		944	1000	-5.6	20.0
PCB-1016 Peak 8	Ave	0.0267	0.0000		0.100	1000	-100.0*	20.0
PCB-1260 Peak 1	Ave	0.0265	0.0266		1000	1000	0.1	20.0
PCB-1260 Peak 2	Ave	0.0551	0.0557		1010	1000	1.1	20.0
PCB-1260 Peak 3	Ave	0.0660	0.0665		1010	1000	0.7	20.0
PCB-1260 Peak 4	Ave	0.0469	0.0478		1020	1000	1.9	20.0
PCB-1260 Peak 5	Ave	0.0415	0.0416		1000	1000	0.2	20.0
PCB-1260 Peak 6	Ave	0.0933	0.0945		1010	1000	1.3	20.0
PCB-1260 Peak 7	Ave	0.0663	0.0685		1030	1000	3.3	20.0
PCB-1260 Peak 8	Ave	0.0243	0.0242		994	1000	-0.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-487360/7 Calibration Date: 12/27/2017 14:15

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R011793.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	6.38	6.31	6.45
PCB-1016 Peak 2	7.16	7.09	7.23
PCB-1016 Peak 3	7.99	7.92	8.06
PCB-1016 Peak 4	8.23	8.16	8.30
PCB-1016 Peak 5	8.41	8.34	8.48
PCB-1016 Peak 6	9.06	8.99	9.13
PCB-1016 Peak 7	9.27	9.20	9.34
PCB-1016 Peak 8	9.78	9.71	9.85
PCB-1260 Peak 1	11.07	11.00	11.14
PCB-1260 Peak 2	11.42	11.36	11.50
PCB-1260 Peak 3	11.97	11.90	12.04
PCB-1260 Peak 4	13.24	13.18	13.32
PCB-1260 Peak 5	14.00	13.94	14.08
PCB-1260 Peak 6	14.65	14.58	14.72
PCB-1260 Peak 7	15.46	15.40	15.54
PCB-1260 Peak 8	16.47	16.41	16.55

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Dec-2017 14:15:26 ALS Bottle#: 10 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-007
Operator ID: Instrument ID: CPESTGC7
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:49 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:04:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46342	20.0	20.0	
2	2.950	2.950	0.000	23827	20.0	20.0	
						RPD = 0.00	
5 PCB-1016							M
1	6.377	6.380	-0.003	48593	1000.0	1009.0	
1	7.160	7.160	0.000	105925	1000.0	1062.3	
1	7.987	7.987	0.000	195727	1000.0	1040.6	M
1	8.227	8.230	-0.003	85964	1000.0	1062.6	M
1	8.407	8.407	0.000	67904	1000.0	1085.9	M
1	9.057	9.060	-0.003	61722	1000.0	1000.2	M
1	9.267	9.267	0.000	60285	1000.0	944.0	M
1	0.000	9.783	0.000	0	1000.0	0	
		Average of Peak Amounts =				1029.2	
2	5.097	5.097	0.000	35839	1000.0	998.1	
2	5.753	5.753	0.000	75384	1000.0	1080.5	
2	6.103	6.103	0.000	45524	1000.0	1091.3	M
2	6.573	6.573	0.000	153335	1000.0	1133.7	
2	6.803	6.807	-0.004	59431	1000.0	1095.9	
2	6.907	6.910	-0.003	35735	1000.0	1085.7	
2	7.517	7.517	0.000	60775	1000.0	1064.8	
2	8.160	8.163	-0.003	31546	1000.0	983.0	M
		Average of Peak Amounts =				1066.6	
						RPD = 3.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8	PCB-1260						M
1	11.067	11.070	-0.003	61533	1000.0	1001.2	M
1	11.423	11.427	-0.004	129063	1000.0	1010.6	M
1	11.973	11.973	0.000	154004	1000.0	1006.7	M
1	13.243	13.247	-0.004	110709	1000.0	1018.7	
1	14.003	14.007	-0.004	96465	1000.0	1002.4	
1	14.647	14.650	-0.003	219062	1000.0	1013.4	
1	15.463	15.467	-0.004	158741	1000.0	1033.3	
1	16.473	16.477	-0.004	55953	1000.0	994.4	
		Average of Peak Amounts =				1010.1	
2	9.553	9.553	0.000	88942	1000.0	1035.3	
2	10.477	10.480	-0.003	144643	1000.0	1056.9	
2	10.700	10.703	-0.003	67901	1000.0	1045.2	
2	11.187	11.190	-0.003	72072	1000.0	1069.2	M
2	11.933	11.937	-0.004	163456	1000.0	1056.2	
2	12.693	12.693	0.000	83194	1000.0	1058.3	
2	12.950	12.953	-0.003	40137	1000.0	1023.3	
2	14.363	14.367	-0.004	39829	1000.0	1067.5	
		Average of Peak Amounts =				1051.5	
						RPD = 4.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

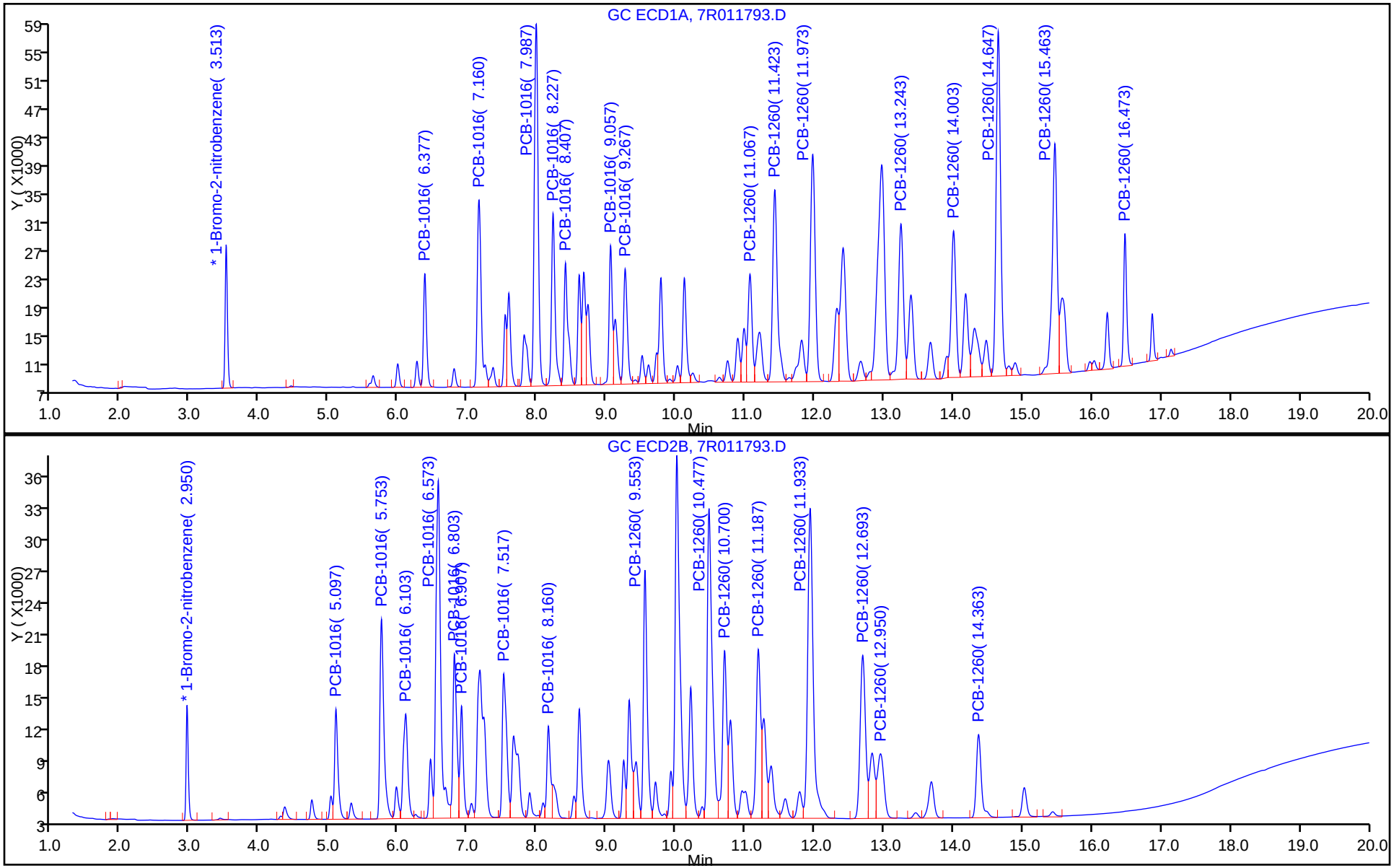
SGPCBICV_00021	Amount Added: 1.00	Units: mL	
SGPCBISTD_00009	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:03 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date:	27-Dec-2017 14:15:26	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date: 27-Dec-2017 14:15:26 Instrument ID: CPESTGC7

Lims ID: ICV

Client ID:

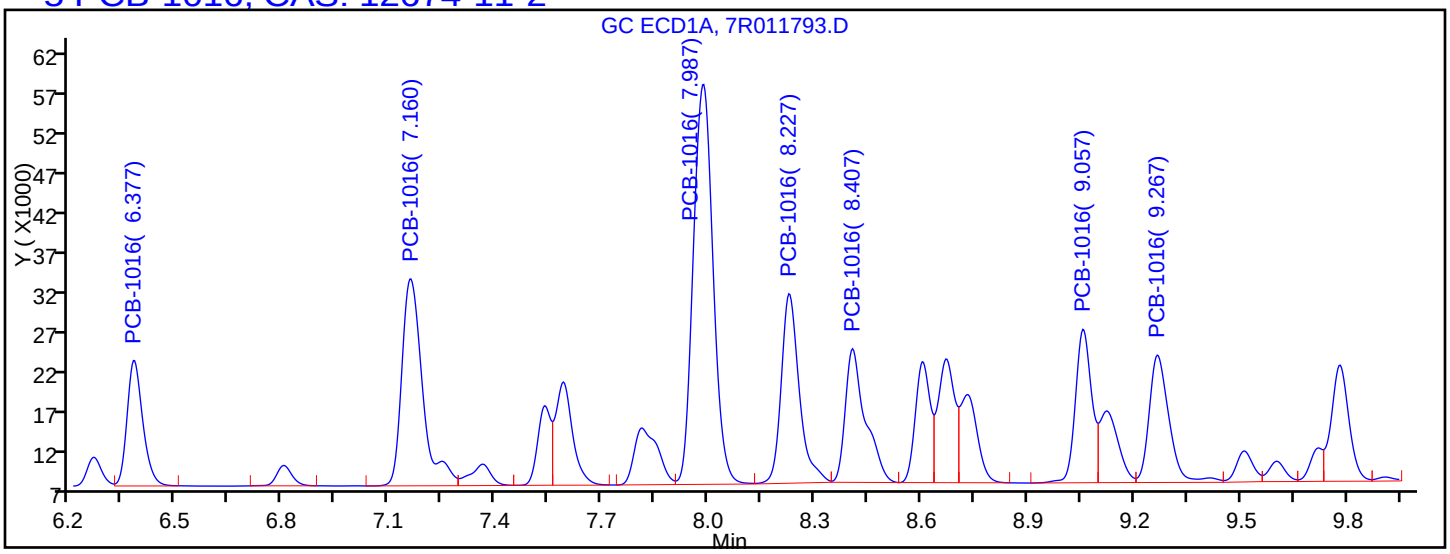
Operator ID: ALS Bottle#: 10 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

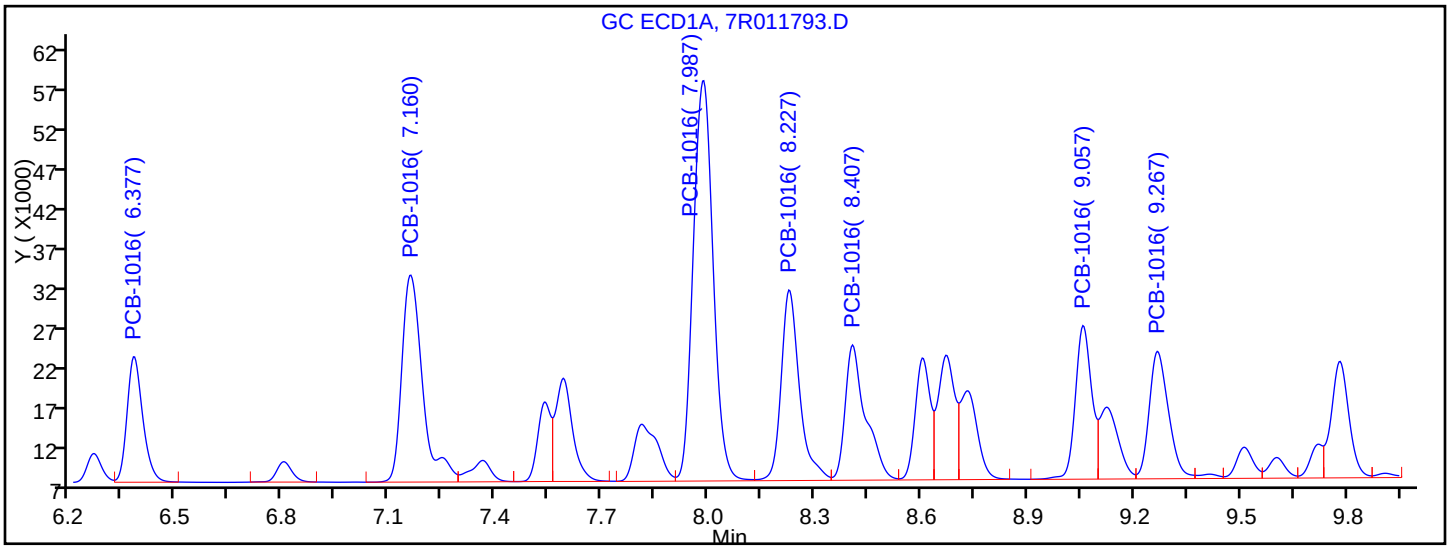
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

6.377	Response = 48593
7.160	Response = 105925
7.987	Response = 195004
8.227	Response = 84092
8.407	Response = 65778
9.057	Response = 61477
9.267	Response = 62328
9.783	Response = 50407



Manual Integration Results

6.377	Response = 48593	
7.160	Response = 105925	
7.987	Response = 195727	M
8.227	Response = 85964	M
8.407	Response = 67904	M
9.057	Response = 61722	M

Report Date: 28-Dec-2017 12:46:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date: 27-Dec-2017 14:15:26 Instrument ID: CPESTGC7

Lims ID: ICV

Client ID:

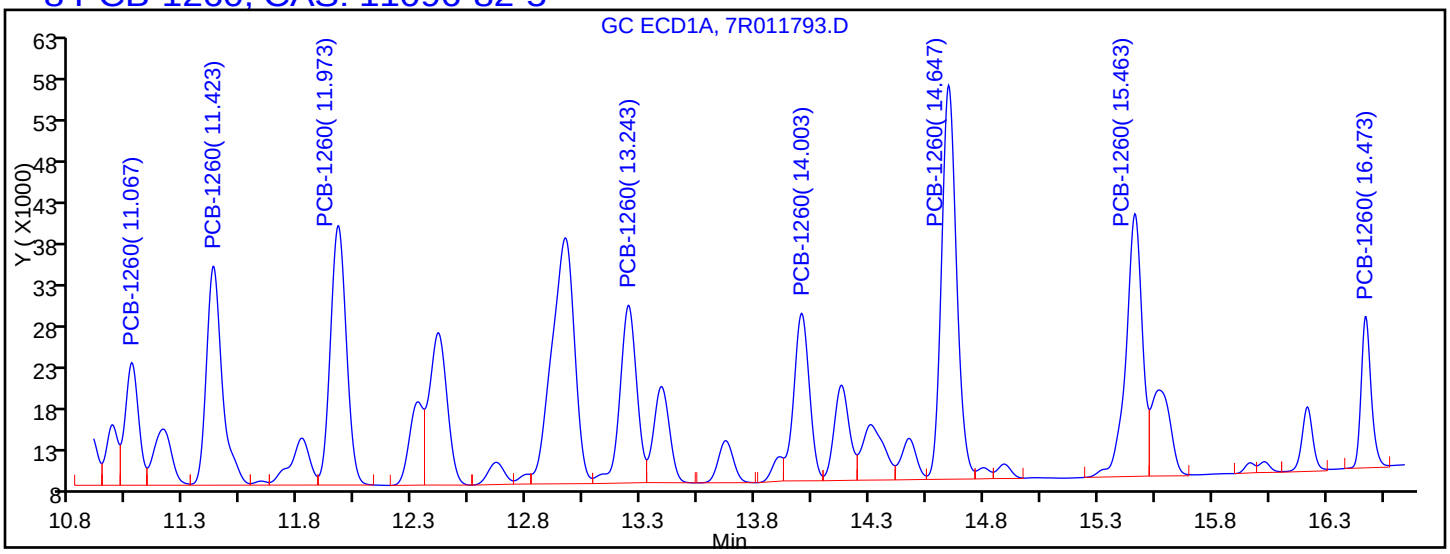
Operator ID: ALS Bottle#: 10 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

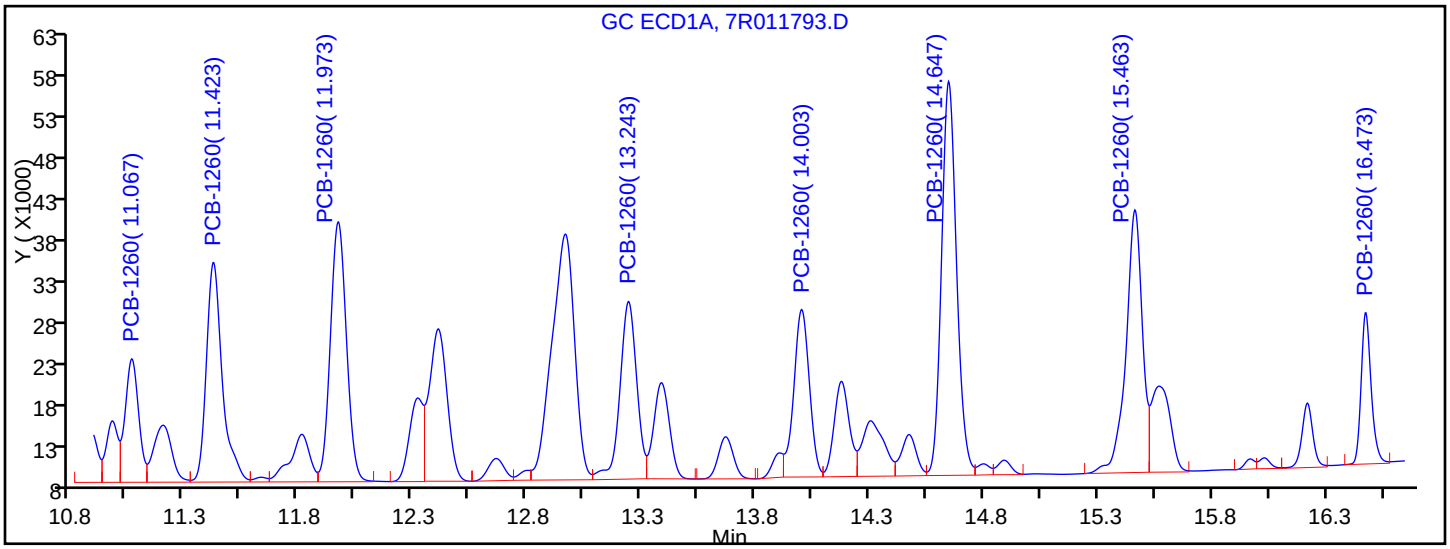
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

11.067	Response = 60791
11.423	Response = 127649
11.973	Response = 152982
13.243	Response = 110709
14.003	Response = 96465
14.647	Response = 219062
15.463	Response = 158741
16.473	Response = 55953



Manual Integration Results

11.067	Response = 61533	M
11.423	Response = 129063	M
11.973	Response = 154004	M
13.243	Response = 110709	
14.003	Response = 96465	
14.647	Response = 219062	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-487360/7 Calibration Date: 12/27/2017 14:15

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R011793.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0301	0.0301		998	1000	-0.2	20.0
PCB-1016 Peak 2	Ave	0.0586	0.0633		1080	1000	8.0	20.0
PCB-1016 Peak 3	Ave	0.0350	0.0382		1090	1000	9.1	20.0
PCB-1016 Peak 4	Ave	0.1135	0.1287		1130	1000	13.4	20.0
PCB-1016 Peak 5	Ave	0.0455	0.0499		1100	1000	9.6	20.0
PCB-1016 Peak 6	Ave	0.0276	0.0300		1090	1000	8.6	20.0
PCB-1016 Peak 7	Ave	0.0479	0.0510		1060	1000	6.5	20.0
PCB-1016 Peak 8	Ave	0.0269	0.0265		983	1000	-1.7	20.0
PCB-1260 Peak 1	Ave	0.0721	0.0747		1040	1000	3.5	20.0
PCB-1260 Peak 2	Ave	0.1149	0.1214		1060	1000	5.7	20.0
PCB-1260 Peak 3	Ave	0.0545	0.0570		1050	1000	4.5	20.0
PCB-1260 Peak 4	Ave	0.0566	0.0605		1070	1000	6.9	20.0
PCB-1260 Peak 5	Ave	0.1299	0.1372		1060	1000	5.6	20.0
PCB-1260 Peak 6	Ave	0.0660	0.0698		1060	1000	5.8	20.0
PCB-1260 Peak 7	Ave	0.0329	0.0337		1020	1000	2.3	20.0
PCB-1260 Peak 8	Ave	0.0313	0.0334		1070	1000	6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICV 460-487360/7 Calibration Date: 12/27/2017 14:15

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R011793.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.10	5.03	5.17
PCB-1016 Peak 2	5.75	5.68	5.82
PCB-1016 Peak 3	6.10	6.03	6.17
PCB-1016 Peak 4	6.57	6.50	6.64
PCB-1016 Peak 5	6.80	6.74	6.88
PCB-1016 Peak 6	6.91	6.84	6.98
PCB-1016 Peak 7	7.52	7.45	7.59
PCB-1016 Peak 8	8.16	8.09	8.23
PCB-1260 Peak 1	9.55	9.48	9.62
PCB-1260 Peak 2	10.48	10.41	10.55
PCB-1260 Peak 3	10.70	10.63	10.77
PCB-1260 Peak 4	11.19	11.12	11.26
PCB-1260 Peak 5	11.93	11.87	12.01
PCB-1260 Peak 6	12.69	12.62	12.76
PCB-1260 Peak 7	12.95	12.88	13.02
PCB-1260 Peak 8	14.36	14.30	14.44

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Dec-2017 14:15:26 ALS Bottle#: 10 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0065501-007
Operator ID: Instrument ID: CPESTGC7
Sublist:

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 28-Dec-2017 12:45:49 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK013

First Level Reviewer: patelji Date: 27-Dec-2017 15:04:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.513	3.513	0.000	46342	20.0	20.0	
2	2.950	2.950	0.000	23827	20.0	20.0	
						RPD = 0.00	
5 PCB-1016							M
1	6.377	6.380	-0.003	48593	1000.0	1009.0	
1	7.160	7.160	0.000	105925	1000.0	1062.3	
1	7.987	7.987	0.000	195727	1000.0	1040.6	M
1	8.227	8.230	-0.003	85964	1000.0	1062.6	M
1	8.407	8.407	0.000	67904	1000.0	1085.9	M
1	9.057	9.060	-0.003	61722	1000.0	1000.2	M
1	9.267	9.267	0.000	60285	1000.0	944.0	M
1	0.000	9.783	0.000	0	1000.0	0	
		Average of Peak Amounts =				1029.2	
2	5.097	5.097	0.000	35839	1000.0	998.1	
2	5.753	5.753	0.000	75384	1000.0	1080.5	
2	6.103	6.103	0.000	45524	1000.0	1091.3	M
2	6.573	6.573	0.000	153335	1000.0	1133.7	
2	6.803	6.807	-0.004	59431	1000.0	1095.9	
2	6.907	6.910	-0.003	35735	1000.0	1085.7	
2	7.517	7.517	0.000	60775	1000.0	1064.8	
2	8.160	8.163	-0.003	31546	1000.0	983.0	M
		Average of Peak Amounts =				1066.6	
						RPD = 3.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 PCB-1260							M
1	11.067	11.070	-0.003	61533	1000.0	1001.2	M
1	11.423	11.427	-0.004	129063	1000.0	1010.6	M
1	11.973	11.973	0.000	154004	1000.0	1006.7	M
1	13.243	13.247	-0.004	110709	1000.0	1018.7	
1	14.003	14.007	-0.004	96465	1000.0	1002.4	
1	14.647	14.650	-0.003	219062	1000.0	1013.4	
1	15.463	15.467	-0.004	158741	1000.0	1033.3	
1	16.473	16.477	-0.004	55953	1000.0	994.4	
		Average of Peak Amounts =				1010.1	
2	9.553	9.553	0.000	88942	1000.0	1035.3	
2	10.477	10.480	-0.003	144643	1000.0	1056.9	
2	10.700	10.703	-0.003	67901	1000.0	1045.2	
2	11.187	11.190	-0.003	72072	1000.0	1069.2	M
2	11.933	11.937	-0.004	163456	1000.0	1056.2	
2	12.693	12.693	0.000	83194	1000.0	1058.3	
2	12.950	12.953	-0.003	40137	1000.0	1023.3	
2	14.363	14.367	-0.004	39829	1000.0	1067.5	
		Average of Peak Amounts =				1051.5	
						RPD = 4.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

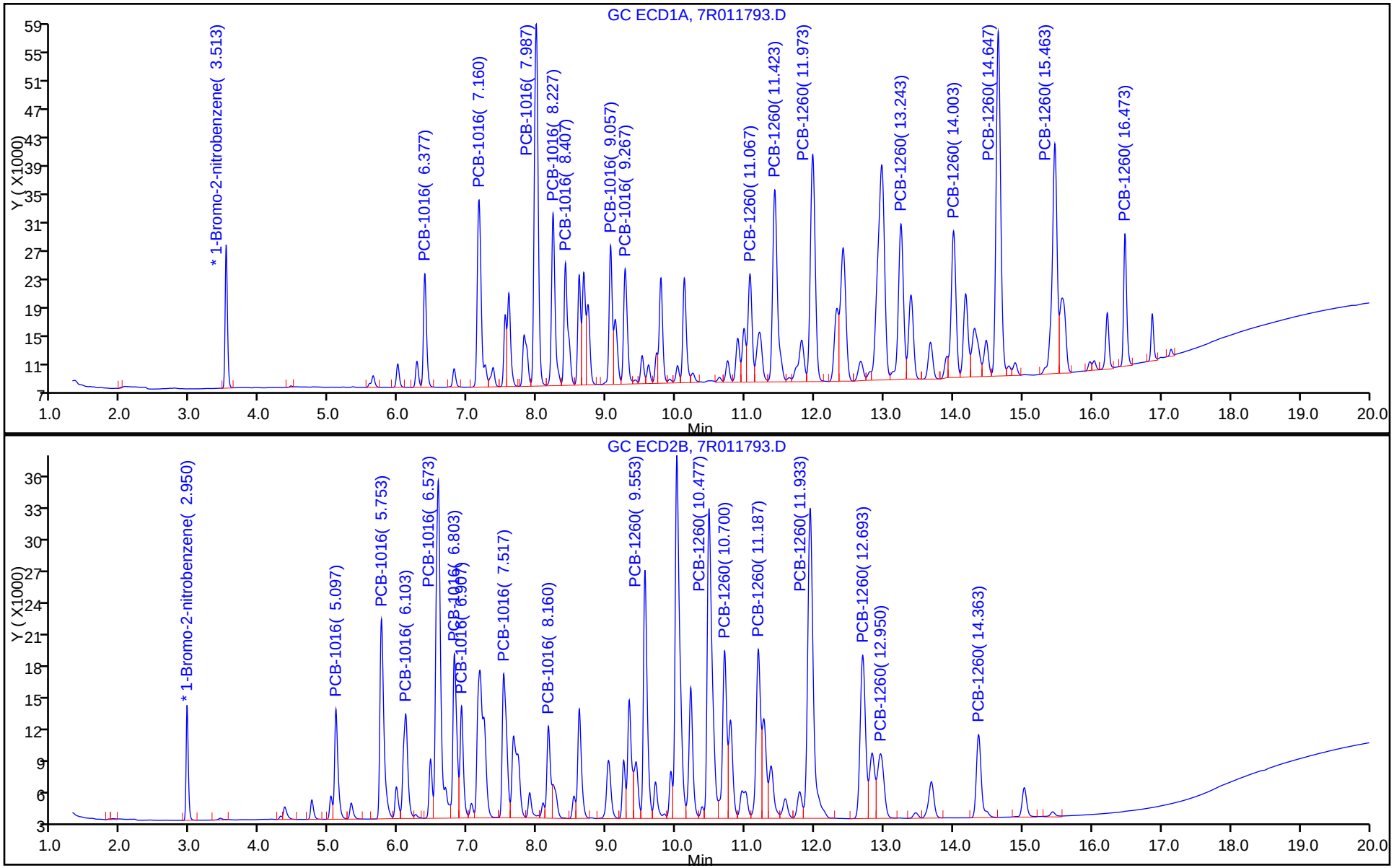
SGPCBICV_00021	Amount Added: 1.00	Units: mL	
SGPCBISTD_00009	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 28-Dec-2017 12:46:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date:	27-Dec-2017 14:15:26	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 28-Dec-2017 12:46:04 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date: 27-Dec-2017 14:15:26 Instrument ID: CPESTGC7

Lims ID: ICV

Client ID:

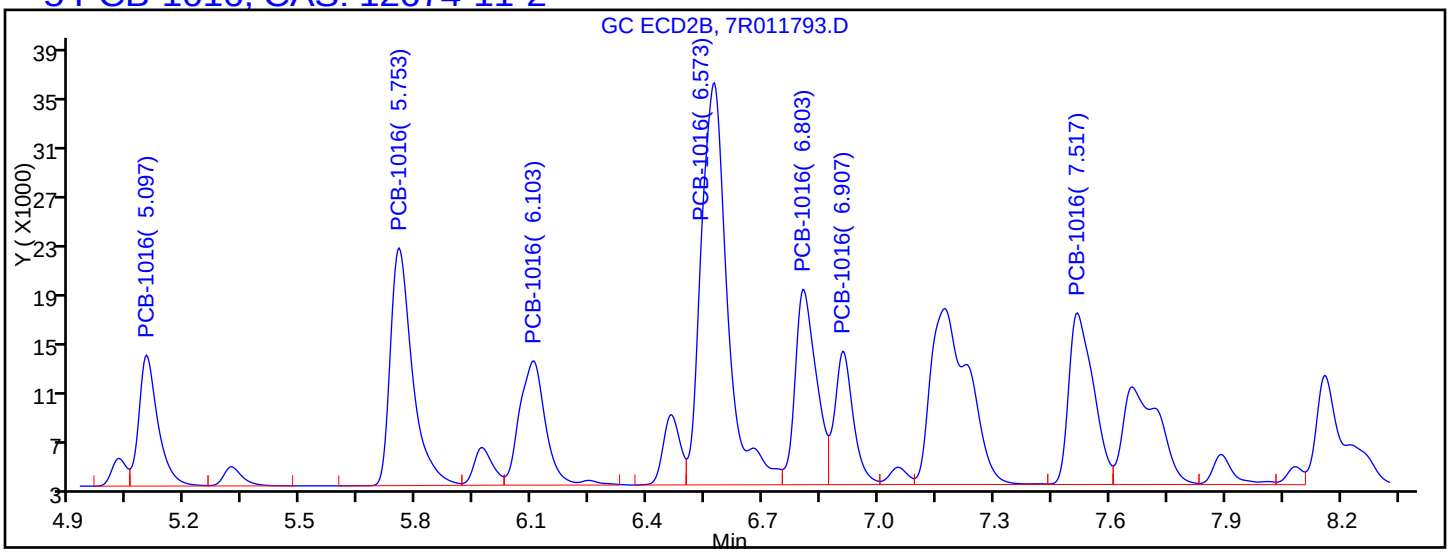
Operator ID: ALS Bottle#: 10 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

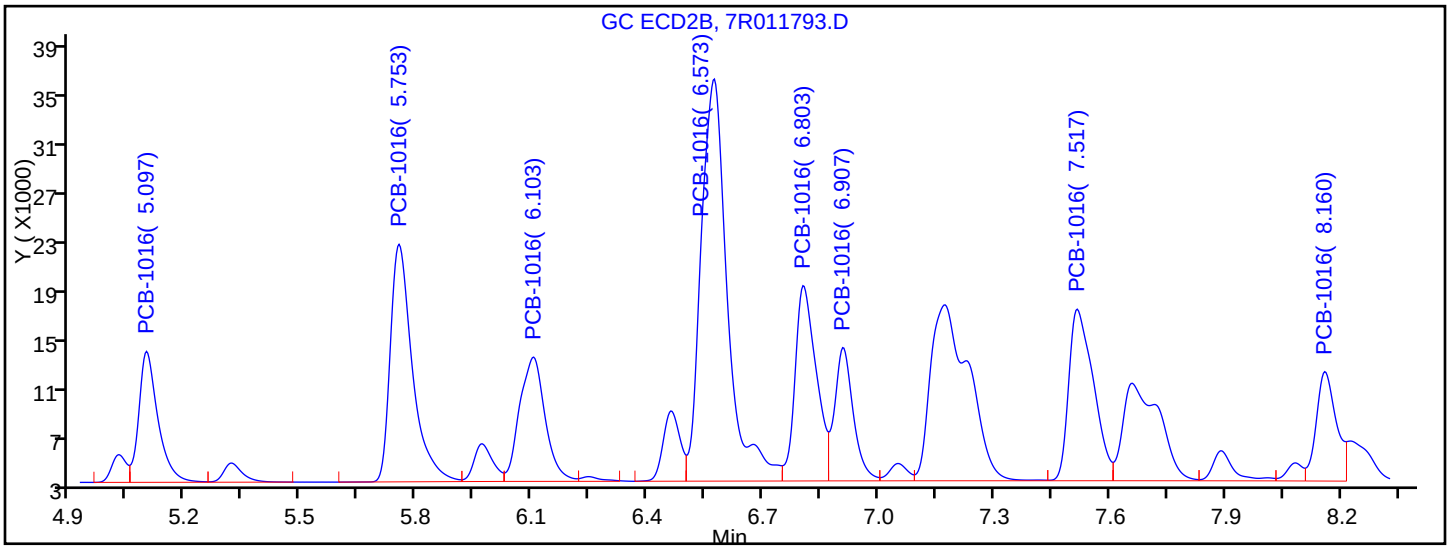
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.097	Response = 35839
5.753	Response = 75384
6.103	Response = 46815
6.573	Response = 153335
6.803	Response = 59431
6.907	Response = 35735
7.517	Response = 60775
8.160	Response = 45059



Manual Integration Results

5.097	Response = 35839
5.753	Response = 75384
6.103	Response = 45524
6.573	Response = 153335
6.803	Response = 59431
6.907	Response = 35735

M

Report Date: 28-Dec-2017 12:46:05 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011793.D

Injection Date: 27-Dec-2017 14:15:26 Instrument ID: CPESTGC7

Lims ID: ICV

Client ID:

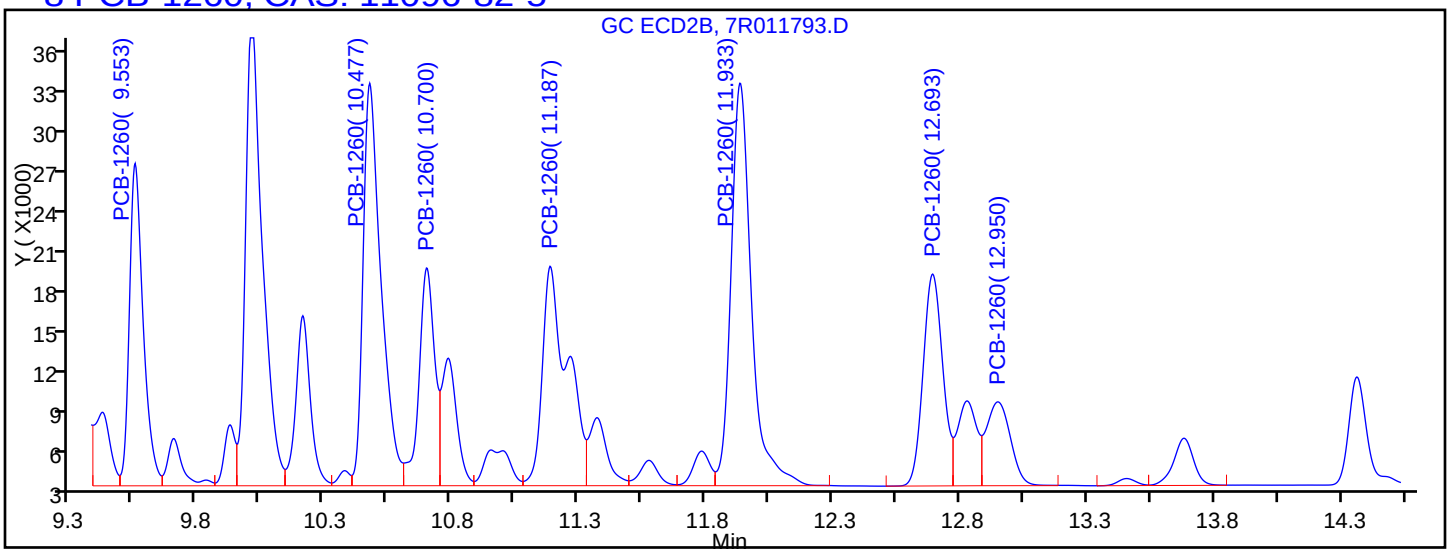
Operator ID: ALS Bottle#: 10 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

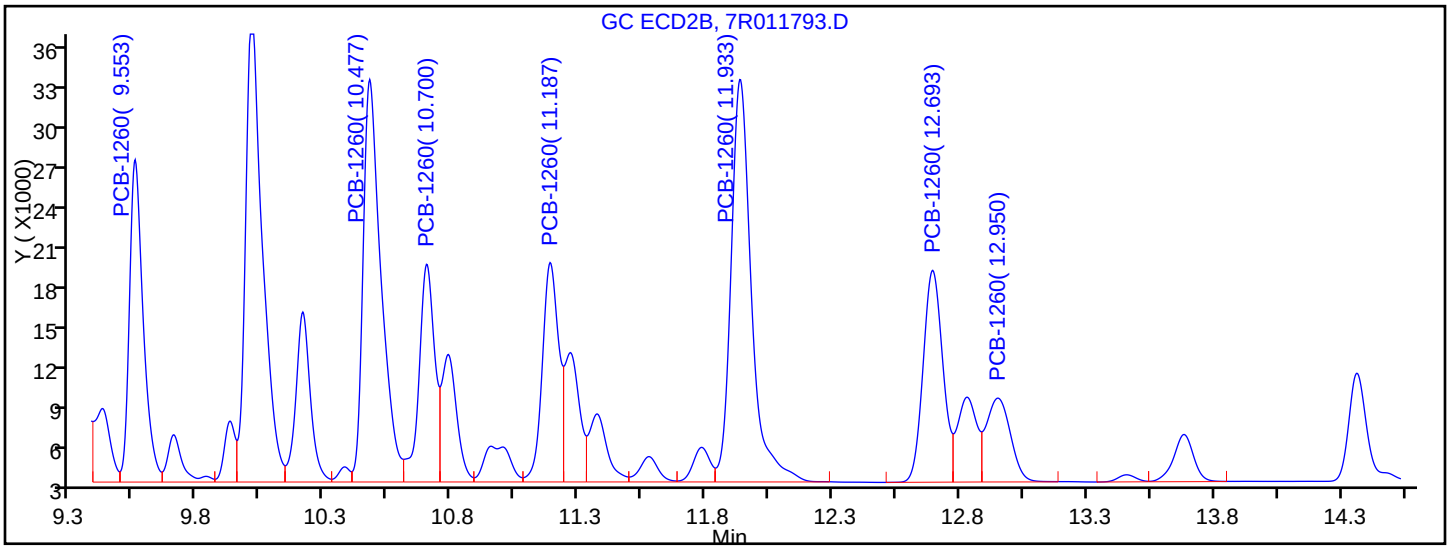
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.553	Response = 88942
10.477	Response = 144643
10.700	Response = 67901
11.187	Response = 110132
11.933	Response = 163456
12.693	Response = 83194
12.950	Response = 40137
14.363	Response = 39829



Manual Integration Results

9.553	Response = 88942
10.477	Response = 144643
10.700	Response = 67901
11.187	Response = 72072
11.933	Response = 163456
12.693	Response = 83194

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505004/2 Calibration Date: 03/21/2018 07:39

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R013925.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0208	0.0206		991	1000	-0.9	20.0
PCB-1016 Peak 2	Ave	0.0430	0.0434		1010	1000	0.9	20.0
PCB-1016 Peak 3	Ave	0.0812	0.0811		999	1000	-0.1	20.0
PCB-1016 Peak 4	Ave	0.0349	0.0349		999	1000	-0.0	20.0
PCB-1016 Peak 5	Ave	0.0270	0.0272		1010	1000	0.9	20.0
PCB-1016 Peak 6	Ave	0.0266	0.0265		996	1000	-0.4	20.0
PCB-1016 Peak 7	Ave	0.0276	0.0295		1070	1000	7.2	20.0
PCB-1016 Peak 8	Ave	0.0267	0.0738		0.100	1000	176.7*	20.0
PCB-1260 Peak 1	Ave	0.0265	0.0284		1070	1000	7.2	20.0
PCB-1260 Peak 2	Ave	0.0551	0.0580		1050	1000	5.1	20.0
PCB-1260 Peak 3	Ave	0.0660	0.0718		1090	1000	8.8	20.0
PCB-1260 Peak 4	Ave	0.0469	0.0544		1160	1000	15.9	20.0
PCB-1260 Peak 5	Ave	0.0415	0.0476		1150	1000	14.5	20.0
PCB-1260 Peak 6	Ave	0.0933	0.1065		1140	1000	14.1	20.0
PCB-1260 Peak 7	Ave	0.0663	0.0761		1150	1000	14.8	20.0
PCB-1260 Peak 8	Ave	0.0243	0.0270		1110	1000	11.3	20.0
Tetrachloro-m-xylene	Ave	0.9100	0.9212		101	100	1.2	20.0
DCB Decachlorobiphenyl	Ave	0.7064	0.7139		101	100	1.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505004/2 Calibration Date: 03/21/2018 07:39

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R013925.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	6.13	6.06	6.20
PCB-1016 Peak 2	6.90	6.83	6.97
PCB-1016 Peak 3	7.72	7.65	7.79
PCB-1016 Peak 4	7.96	7.89	8.03
PCB-1016 Peak 5	8.14	8.07	8.21
PCB-1016 Peak 6	8.78	8.71	8.85
PCB-1016 Peak 7	8.99	8.92	9.06
PCB-1016 Peak 8	9.47	9.40	9.54
PCB-1260 Peak 1	10.72	10.65	10.79
PCB-1260 Peak 2	11.05	10.98	11.12
PCB-1260 Peak 3	11.55	11.48	11.62
PCB-1260 Peak 4	12.77	12.70	12.84
PCB-1260 Peak 5	13.57	13.50	13.64
PCB-1260 Peak 6	14.25	14.18	14.32
PCB-1260 Peak 7	15.08	15.01	15.15
PCB-1260 Peak 8	16.23	16.16	16.30
Tetrachloro-m-xylene	5.12	5.07	5.17
DCB Decachlorobiphenyl	16.94	16.84	17.04

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:39:35 ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 08:09:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.323	3.323	0.000	48610	20.0	20.0	
2	2.893	2.893	0.000	25658	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.120	5.120	0.000	223895	100.0	101.2	
2	4.293	4.293	0.000	146525	100.0	97.5	
						RPD = 3.71	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.130	6.130	0.000	50072	1000.0	991.2	
1	6.900	6.900	0.000	105570	1000.0	1009.3	
1	7.723	7.723	0.000	197091	1000.0	999.0	
1	7.960	7.960	0.000	84808	1000.0	999.4	
1	8.137	8.137	0.000	66212	1000.0	1009.4	
1	8.783	8.783	0.000	64461	1000.0	995.8	
1	8.993	8.993	0.000	71785	1000.0	1071.7	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				1010.8	
2	5.023	5.023	0.000	36561	1000.0	945.5	
2	5.677	5.677	0.000	70487	1000.0	938.2	
2	6.023	6.023	0.000	43317	1000.0	964.3	M
2	6.490	6.490	0.000	142030	1000.0	975.2	
2	6.723	6.723	0.000	50116	1000.0	858.2	
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	56146	1000.0	913.5	
2	8.077	8.077	0.000	32836	1000.0	950.1	M
		Average of Peak Amounts =				935.0	
						RPD = 7.79	
8 PCB-1260							M
1	10.720	10.720	0.000	69119	1000.0	1072.2	
1	11.047	11.047	0.000	140853	1000.0	1051.5	
1	11.550	11.550	0.000	174516	1000.0	1087.6	
1	12.773	12.773	0.000	132106	1000.0	1158.8	
1	13.567	13.567	0.000	115576	1000.0	1145.0	
1	14.247	14.247	0.000	258749	1000.0	1141.1	
1	15.080	15.080	0.000	185006	1000.0	1148.1	
1	16.230	16.230	0.000	65711	1000.0	1113.3	
		Average of Peak Amounts =				1114.7	
2	9.463	9.463	0.000	90634	1000.0	979.7	
2	10.380	10.380	0.000	150796	1000.0	1023.3	
2	10.597	10.597	0.000	69554	1000.0	994.2	
2	11.067	11.067	0.000	72449	1000.0	998.1	M
2	11.790	11.790	0.000	172843	1000.0	1037.1	
2	12.527	12.527	0.000	86146	1000.0	1017.6	
2	12.787	12.787	0.000	45114	1000.0	1068.1	
2	14.230	14.230	0.000	44712	1000.0	1112.8	
		Average of Peak Amounts =				1028.9	
						RPD = 8.01	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	173502	100.0	101.1	
2	15.310	15.310	0.000	175476	100.0	106.7	
						RPD = 5.45	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

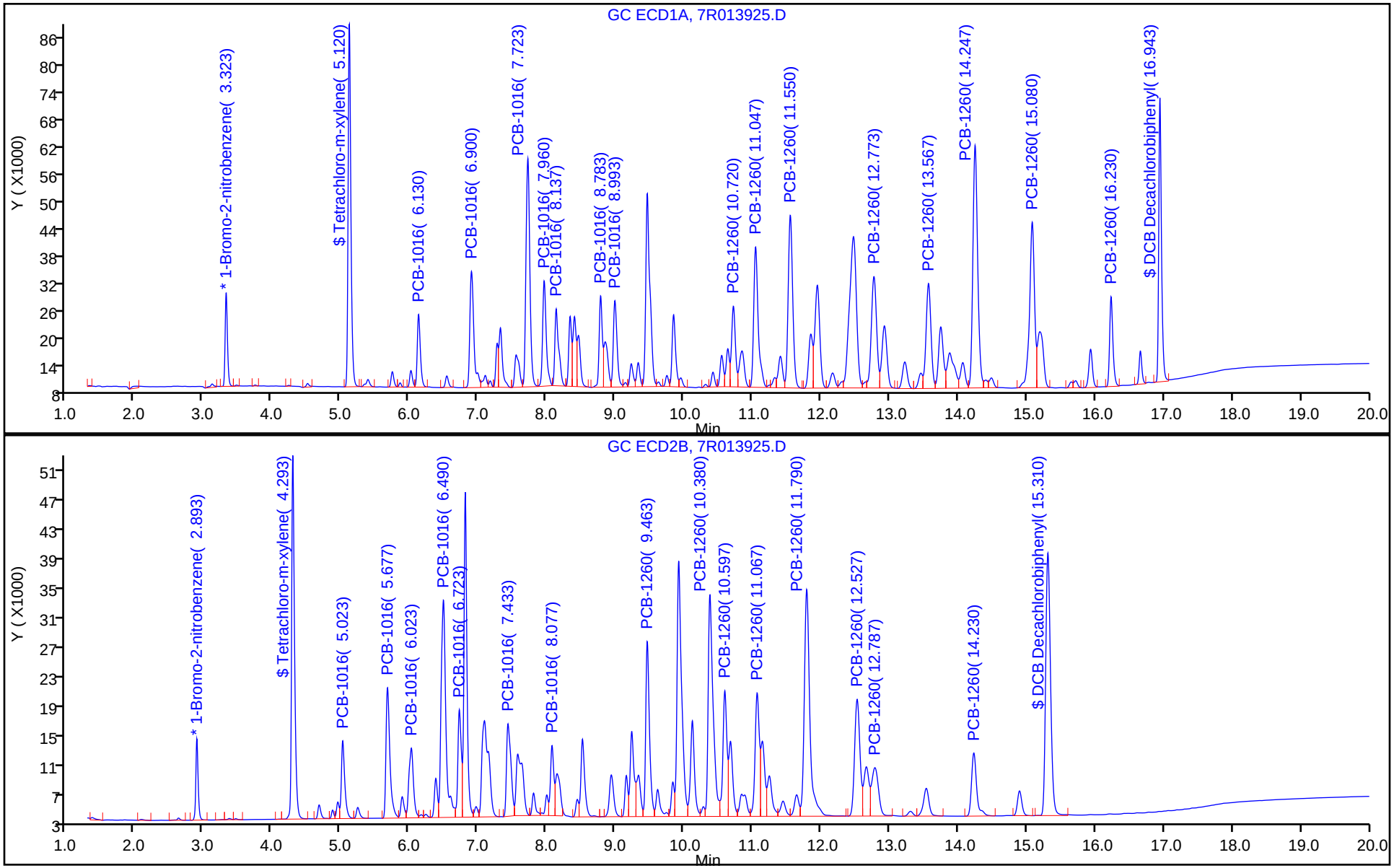
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 12:19:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D

Injection Date:	21-Mar-2018 07:39:35	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505004/2 Calibration Date: 03/21/2018 07:39

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R013925.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0301	0.0285		946	1000	-5.4	20.0
PCB-1016 Peak 2	Ave	0.0586	0.0549		938	1000	-6.2	20.0
PCB-1016 Peak 3	Ave	0.0350	0.0338		964	1000	-3.6	20.0
PCB-1016 Peak 4	Ave	0.1135	0.1107		975	1000	-2.5	20.0
PCB-1016 Peak 5	Ave	0.0455	0.0391		858	1000	-14.2	20.0
PCB-1016 Peak 6	Ave	0.0276	0.1050		0.100	1000	279.9*	20.0
PCB-1016 Peak 7	Ave	0.0479	0.0438		914	1000	-8.6	20.0
PCB-1016 Peak 8	Ave	0.0269	0.0256		950	1000	-5.0	20.0
PCB-1260 Peak 1	Ave	0.0721	0.0707		980	1000	-2.0	20.0
PCB-1260 Peak 2	Ave	0.1149	0.1175		1020	1000	2.3	20.0
PCB-1260 Peak 3	Ave	0.0545	0.0542		994	1000	-0.6	20.0
PCB-1260 Peak 4	Ave	0.0566	0.0565		998	1000	-0.2	20.0
PCB-1260 Peak 5	Ave	0.1299	0.1347		1040	1000	3.7	20.0
PCB-1260 Peak 6	Ave	0.0660	0.0672		1020	1000	1.8	20.0
PCB-1260 Peak 7	Ave	0.0329	0.0352		1070	1000	6.8	20.0
PCB-1260 Peak 8	Ave	0.0313	0.0349		1110	1000	11.3	20.0
Tetrachloro-m-xylene	Ave	1.171	1.142		97.5	100	-2.5	20.0
DCB Decachlorobiphenyl	Ave	1.282	1.368		107	100	6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505004/2 Calibration Date: 03/21/2018 07:39

Instrument ID: CPESTGC7 Calib Start Date: 12/27/2017 12:17

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 12/27/2017 13:51

Lab File ID: 7R013925.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.02	4.95	5.09
PCB-1016 Peak 2	5.68	5.61	5.75
PCB-1016 Peak 3	6.02	5.95	6.09
PCB-1016 Peak 4	6.49	6.42	6.56
PCB-1016 Peak 5	6.72	6.65	6.79
PCB-1016 Peak 6	6.81	6.74	6.88
PCB-1016 Peak 7	7.43	7.36	7.50
PCB-1016 Peak 8	8.08	8.01	8.15
PCB-1260 Peak 1	9.46	9.39	9.53
PCB-1260 Peak 2	10.38	10.31	10.45
PCB-1260 Peak 3	10.60	10.53	10.67
PCB-1260 Peak 4	11.07	11.00	11.14
PCB-1260 Peak 5	11.79	11.72	11.86
PCB-1260 Peak 6	12.53	12.46	12.60
PCB-1260 Peak 7	12.79	12.72	12.86
PCB-1260 Peak 8	14.23	14.16	14.30
Tetrachloro-m-xylene	4.29	4.24	4.34
DCB Decachlorobiphenyl	15.31	15.21	15.41

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 07:39:35 ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Sublist: chrom-8082.ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 08:09:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.323	3.323	0.000	48610	20.0	20.0	
2	2.893	2.893	0.000	25658	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.120	5.120	0.000	223895	100.0	101.2	
2	4.293	4.293	0.000	146525	100.0	97.5	
						RPD = 3.71	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.130	6.130	0.000	50072	1000.0	991.2	
1	6.900	6.900	0.000	105570	1000.0	1009.3	
1	7.723	7.723	0.000	197091	1000.0	999.0	
1	7.960	7.960	0.000	84808	1000.0	999.4	
1	8.137	8.137	0.000	66212	1000.0	1009.4	
1	8.783	8.783	0.000	64461	1000.0	995.8	
1	8.993	8.993	0.000	71785	1000.0	1071.7	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				1010.8	
2	5.023	5.023	0.000	36561	1000.0	945.5	
2	5.677	5.677	0.000	70487	1000.0	938.2	
2	6.023	6.023	0.000	43317	1000.0	964.3	M
2	6.490	6.490	0.000	142030	1000.0	975.2	
2	6.723	6.723	0.000	50116	1000.0	858.2	
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	56146	1000.0	913.5	
2	8.077	8.077	0.000	32836	1000.0	950.1	M
		Average of Peak Amounts =				935.0	
						RPD = 7.79	
8 PCB-1260							M
1	10.720	10.720	0.000	69119	1000.0	1072.2	
1	11.047	11.047	0.000	140853	1000.0	1051.5	
1	11.550	11.550	0.000	174516	1000.0	1087.6	
1	12.773	12.773	0.000	132106	1000.0	1158.8	
1	13.567	13.567	0.000	115576	1000.0	1145.0	
1	14.247	14.247	0.000	258749	1000.0	1141.1	
1	15.080	15.080	0.000	185006	1000.0	1148.1	
1	16.230	16.230	0.000	65711	1000.0	1113.3	
		Average of Peak Amounts =				1114.7	
2	9.463	9.463	0.000	90634	1000.0	979.7	
2	10.380	10.380	0.000	150796	1000.0	1023.3	
2	10.597	10.597	0.000	69554	1000.0	994.2	
2	11.067	11.067	0.000	72449	1000.0	998.1	M
2	11.790	11.790	0.000	172843	1000.0	1037.1	
2	12.527	12.527	0.000	86146	1000.0	1017.6	
2	12.787	12.787	0.000	45114	1000.0	1068.1	
2	14.230	14.230	0.000	44712	1000.0	1112.8	
		Average of Peak Amounts =				1028.9	
						RPD = 8.01	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	173502	100.0	101.1	
2	15.310	15.310	0.000	175476	100.0	106.7	
						RPD = 5.45	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

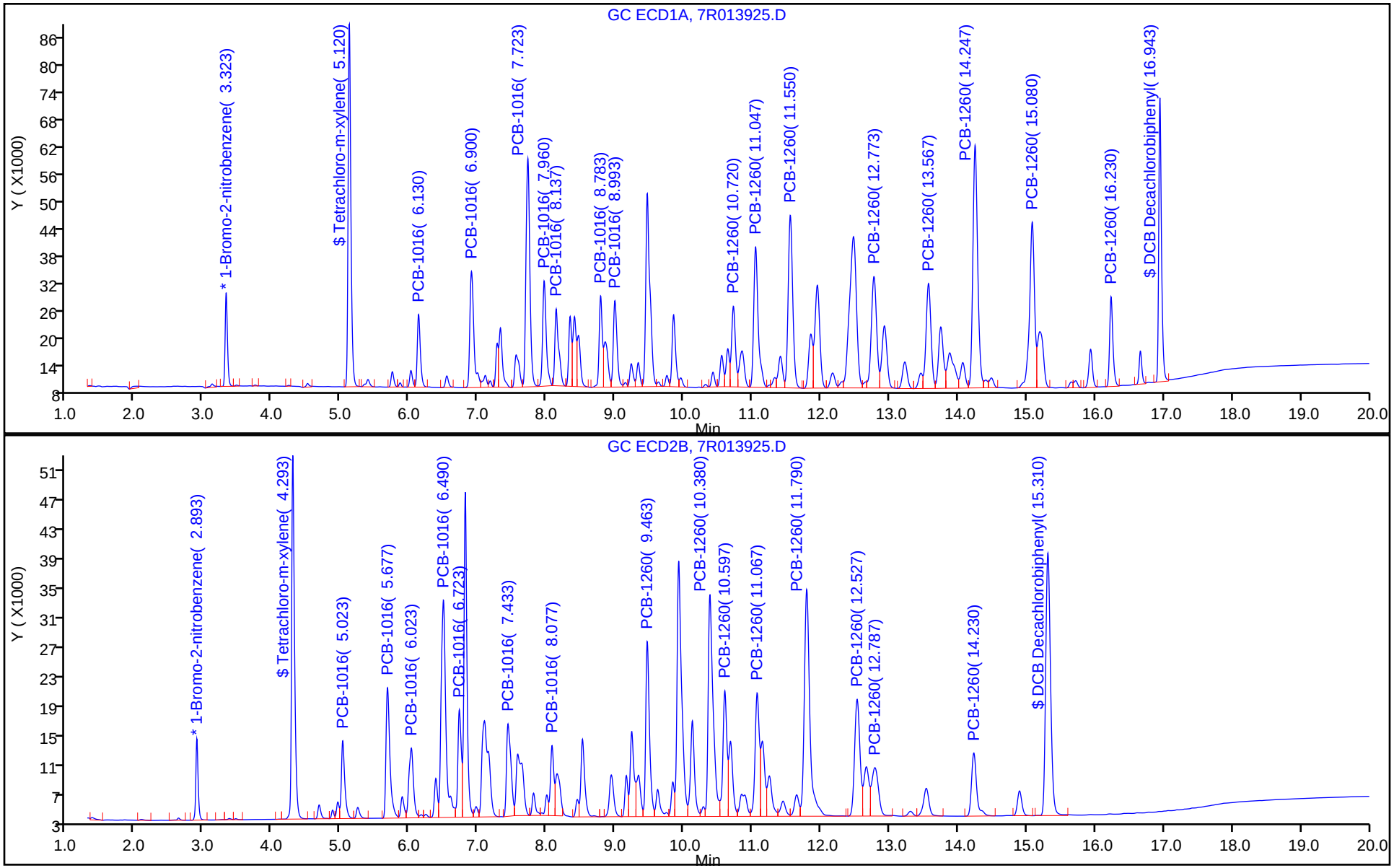
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 12:19:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D

Injection Date:	21-Mar-2018 07:39:35	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 21-Mar-2018 12:19:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D

Injection Date: 21-Mar-2018 07:39:35 Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

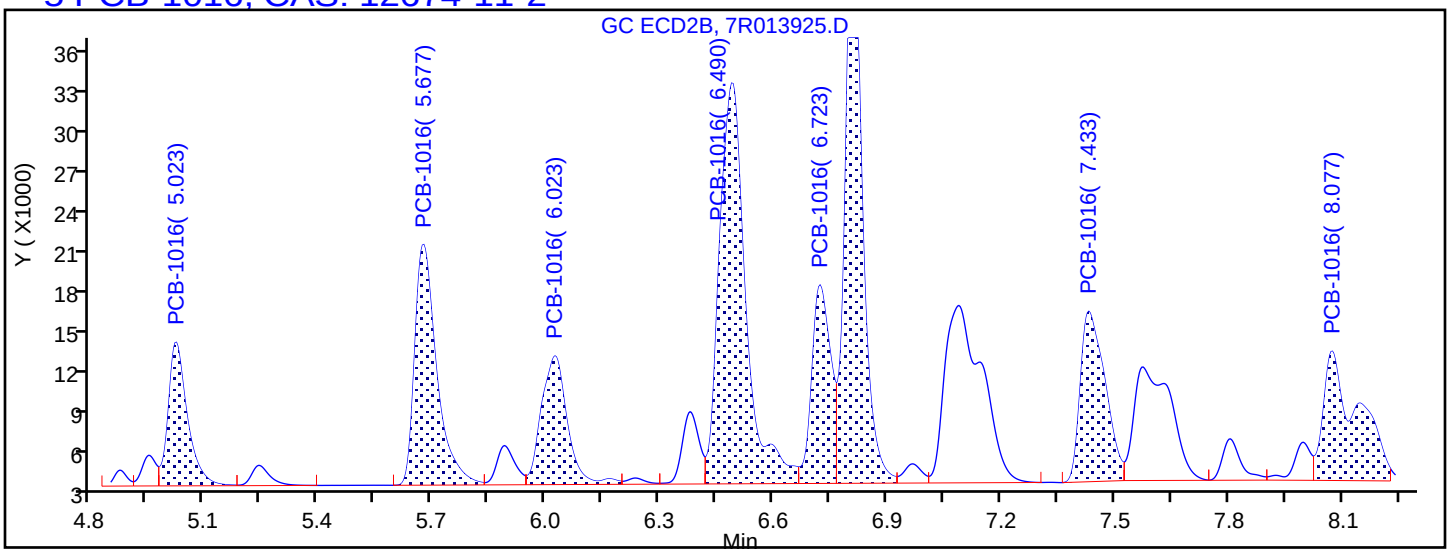
Operator ID: ALS Bottle#: 27 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

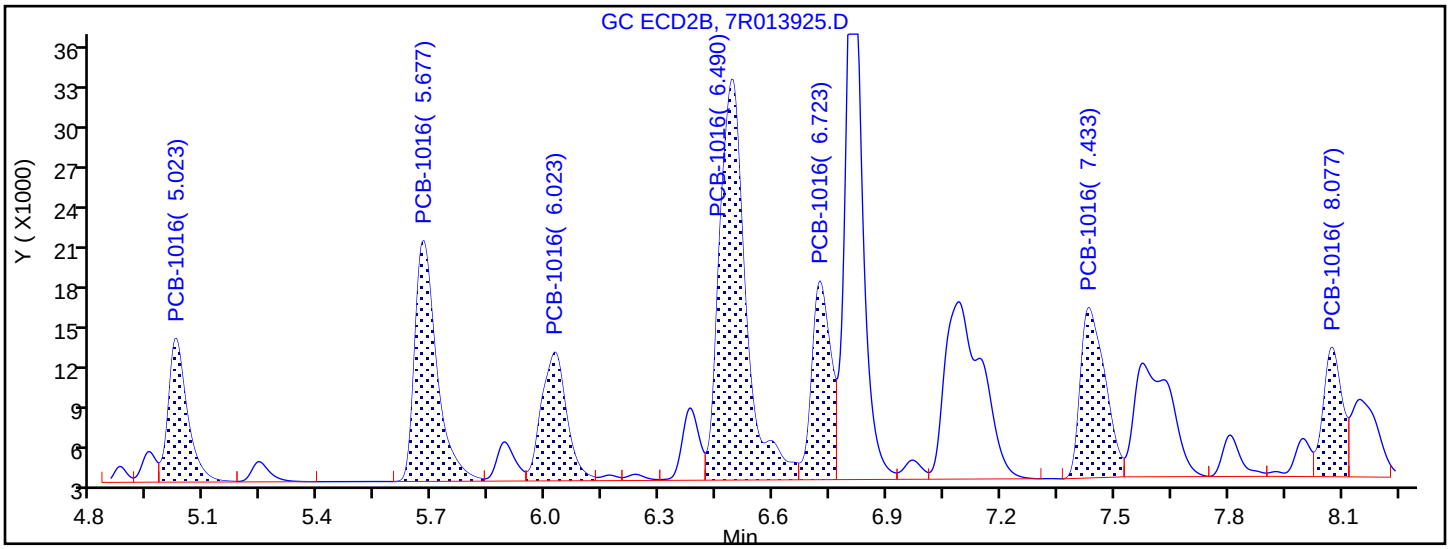
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.023	Response = 36561
5.677	Response = 70487
6.023	Response = 44606
6.490	Response = 142030
6.723	Response = 50116
6.810	Response = 134654
7.433	Response = 56146
8.077	Response = 59815



Manual Integration Results

5.023	Response = 36561
5.677	Response = 70487
6.023	Response = 43317
6.490	Response = 142030
6.723	Response = 50116
6.810	Response = 0

M

Report Date: 21-Mar-2018 12:19:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013925.D

Injection Date: 21-Mar-2018 07:39:35 Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

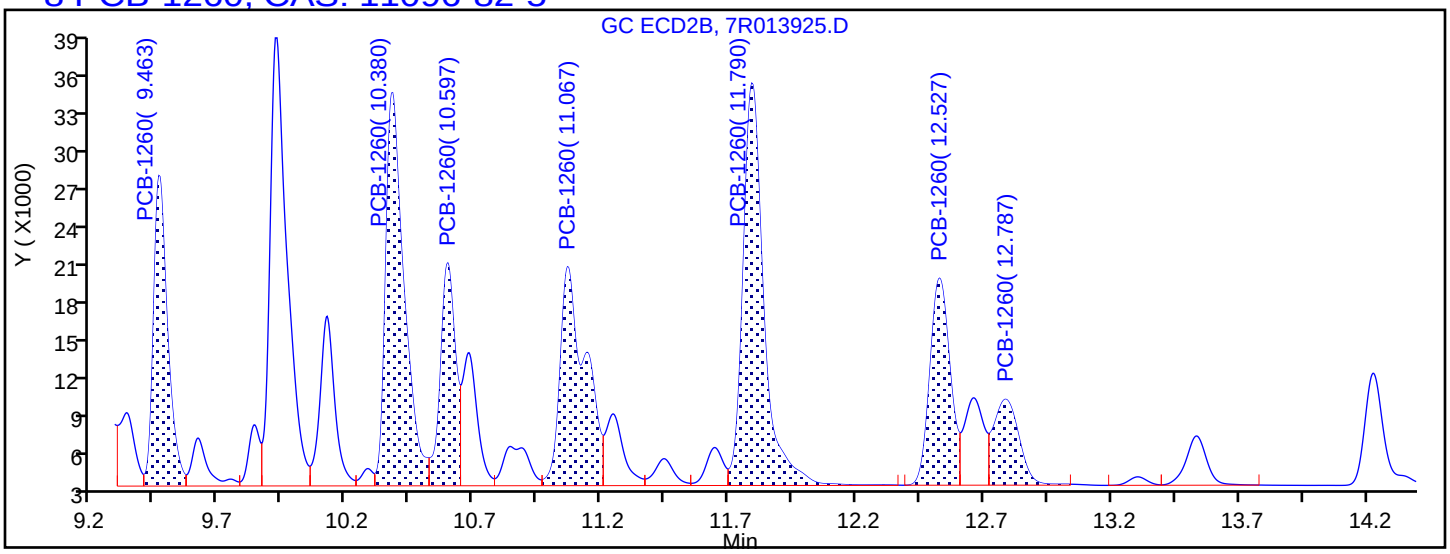
Operator ID: ALS Bottle#: 27 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

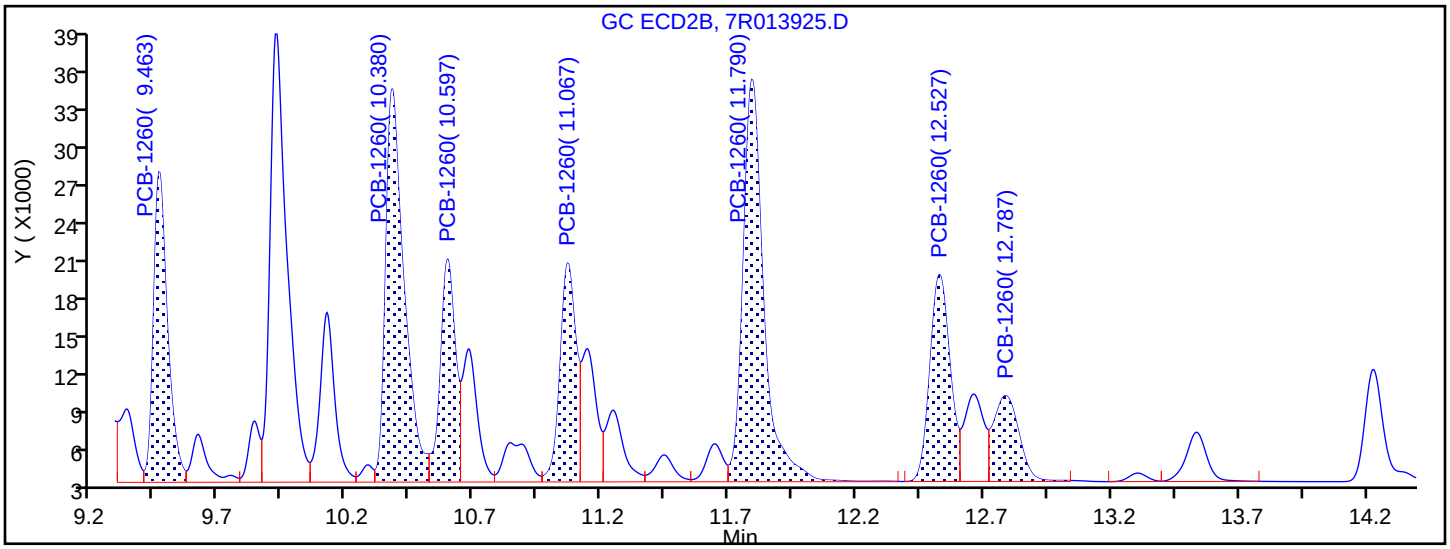
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.463	Response = 90634
10.380	Response = 150796
10.597	Response = 69554
11.067	Response = 113764
11.790	Response = 172843
12.527	Response = 86146
12.787	Response = 45114
14.230	Response = 44712



Manual Integration Results

9.463	Response = 90634
10.380	Response = 150796
10.597	Response = 69554
11.067	Response = 72449
11.790	Response = 172843
12.527	Response = 86146

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505006/2 Calibration Date: 03/21/2018 06:32

Instrument ID: CPESTGC8 Calib Start Date: 12/14/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/14/2017 14:40

Lab File ID: 8F125839.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0189	0.0165		872	1000	-12.8	20.0
PCB-1016 Peak 2	Ave	0.0391	0.0335		857	1000	-14.3	20.0
PCB-1016 Peak 3	Ave	0.0707	0.0603		853	1000	-14.7	20.0
PCB-1016 Peak 4	Ave	0.0303	0.0277		914	1000	-8.6	20.0
PCB-1016 Peak 5	Ave	0.0232	0.0212		912	1000	-8.8	20.0
PCB-1016 Peak 6	Ave	0.0230	0.0220		957	1000	-4.3	20.0
PCB-1016 Peak 7	Ave	0.0260	0.0248		954	1000	-4.6	20.0
PCB-1016 Peak 8	Ave	0.0208	0.0230		1110	1000	10.6	20.0
PCB-1260 Peak 1	Ave	0.0220	0.0223		1010	1000	1.3	20.0
PCB-1260 Peak 2	Ave	0.0474	0.0489		1030	1000	3.3	20.0
PCB-1260 Peak 3	Ave	0.0530	0.0507		956	1000	-4.4	20.0
PCB-1260 Peak 4	Ave	0.0293	0.0355		0.0990	1000	21.2*	20.0
PCB-1260 Peak 5	Ave	0.0344	0.0338		980	1000	-2.0	20.0
PCB-1260 Peak 6	Ave	0.0711	0.0732		1030	1000	3.0	20.0
PCB-1260 Peak 7	Ave	0.0659	0.0729		1110	1000	10.5	20.0
PCB-1260 Peak 8	Ave	0.0178	0.0178		1000	1000	0.2	20.0
Tetrachloro-m-xylene	Ave	0.9457	0.8957		94.7	100	-5.3	20.0
DCB Decachlorobiphenyl	Ave	0.6194	0.5968		96.4	100	-3.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505006/2 Calibration Date: 03/21/2018 06:32

Instrument ID: CPESTGC8 Calib Start Date: 12/14/2017 12:17

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 12/14/2017 14:40

Lab File ID: 8F125839.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.32	4.29	4.35
PCB-1016 Peak 2	4.90	4.87	4.93
PCB-1016 Peak 3	5.51	5.48	5.54
PCB-1016 Peak 4	5.70	5.67	5.73
PCB-1016 Peak 5	5.83	5.80	5.86
PCB-1016 Peak 6	6.32	6.29	6.35
PCB-1016 Peak 7	6.48	6.45	6.51
PCB-1016 Peak 8	6.87	6.84	6.90
PCB-1260 Peak 1	7.88	7.85	7.91
PCB-1260 Peak 2	8.14	8.11	8.17
PCB-1260 Peak 3	8.52	8.49	8.55
PCB-1260 Peak 4	9.43	9.40	9.46
PCB-1260 Peak 5	9.87	9.84	9.90
PCB-1260 Peak 6	10.18	10.15	10.21
PCB-1260 Peak 7	10.55	10.52	10.58
PCB-1260 Peak 8	11.06	11.03	11.09
Tetrachloro-m-xylene	3.57	3.54	3.60
DCB Decachlorobiphenyl	11.52	11.49	11.55

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 06:32:30 ALS Bottle#: 45 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069051-028
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:55:43 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: zhangj Date: 21-Mar-2018 08:45:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.279	2.279	0.000	4657437	20.0	20.0	
2	1.923	1.923	0.000	10574424	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.565	3.565	0.000	20859039	100.0	94.7	
2	2.884	2.884	0.000	28691142	100.0	87.4	
						RPD = 8.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.317	4.317	0.000	3831317	1000.0	872.4	M
1	4.895	4.895	0.000	7808735	1000.0	857.4	M
1	5.514	5.514	0.000	14044127	1000.0	852.6	M
1	5.695	5.695	0.000	6446563	1000.0	914.0	M
1	5.829	5.829	0.000	4931078	1000.0	911.7	M
1	6.318	6.318	0.000	5115007	1000.0	956.9	M
1	6.476	6.476	0.000	5770171	1000.0	954.0	M
1	6.869	6.869	0.000	5345898	1000.0	1106.0	M
		Average of Peak Amounts =				928.1	
2	3.401	3.401	0.000	6910844	1000.0	902.3	
2	3.876	3.876	0.000	13903368	1000.0	887.7	
2	4.129	4.129	0.000	9184103	1000.0	920.0	
2	4.476	4.476	0.000	29212029	1000.0	879.5	
2	4.649	4.649	0.000	11324556	1000.0	878.4	
2	4.724	4.724	0.000	10612193	1000.0	1190.9	
2	5.177	5.177	0.000	12739590	1000.0	903.2	
2	5.656	5.656	0.000	6874383	1000.0	840.2	
		Average of Peak Amounts =				925.3	
						RPD = 0.31	
8 PCB-1260							M
1	7.882	7.882	0.000	5190946	1000.0	1013.0	M
1	8.143	8.143	0.000	11394229	1000.0	1032.9	M
1	8.524	8.524	0.000	11805845	1000.0	956.0	M
1	0.000	9.432	0.000	0	1000.0	0	
1	9.868	9.868	0.000	7859552	1000.0	980.0	M
1	10.179	10.179	0.000	17052363	1000.0	1029.7	M
1	10.547	10.547	0.000	16965418	1000.0	1105.1	M
1	11.063	11.063	0.000	4145789	1000.0	1001.9	M
		Average of Peak Amounts =				1016.9	
2	6.700	6.700	0.000	18993820	1000.0	919.7	M
2	7.442	7.442	0.000	34833230	1000.0	950.1	M
2	0.000	7.617	0.000	0	1000.0	0	
2	7.987	7.987	0.000	17063545	1000.0	935.3	M
2	8.515	8.515	0.000	40359054	1000.0	901.1	M
2	9.044	9.044	0.000	21009962	1000.0	894.4	M
2	9.229	9.229	0.000	12469159	1000.0	996.9	M
2	10.042	10.042	0.000	10224513	1000.0	986.0	
		Average of Peak Amounts =				940.5	
						RPD = 7.81	
$ 11 DCB Decachlorobiphenyl							
1	11.524	11.524	0.000	13897772	100.0	96.4	
2	10.519	10.519	0.000	30664479	100.0	87.8	
						RPD = 9.29	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

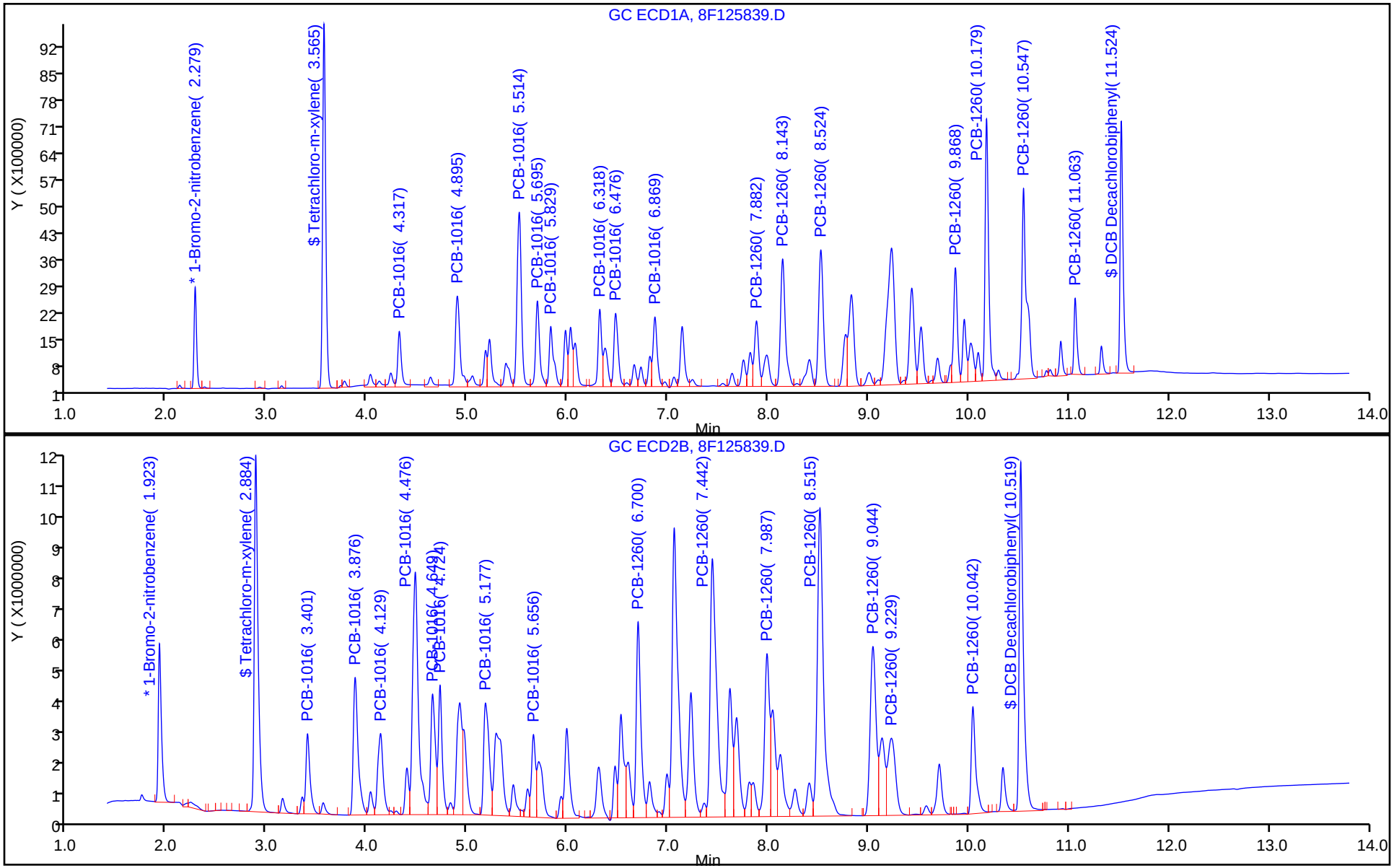
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 12:55:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D

Injection Date:	21-Mar-2018 06:32:30	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 21-Mar-2018 12:55:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D

Injection Date: 21-Mar-2018 06:32:30 Instrument ID: CPESTGC8

Lims ID: CCVIS

Client ID:

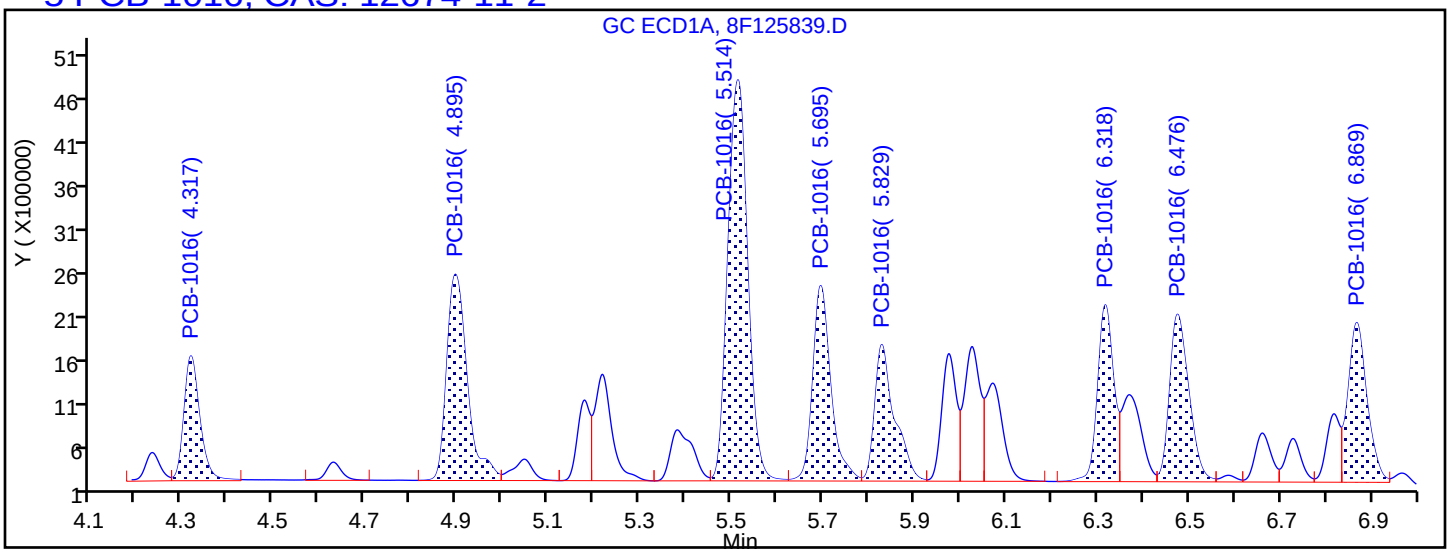
Operator ID: ALS Bottle#: 45 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

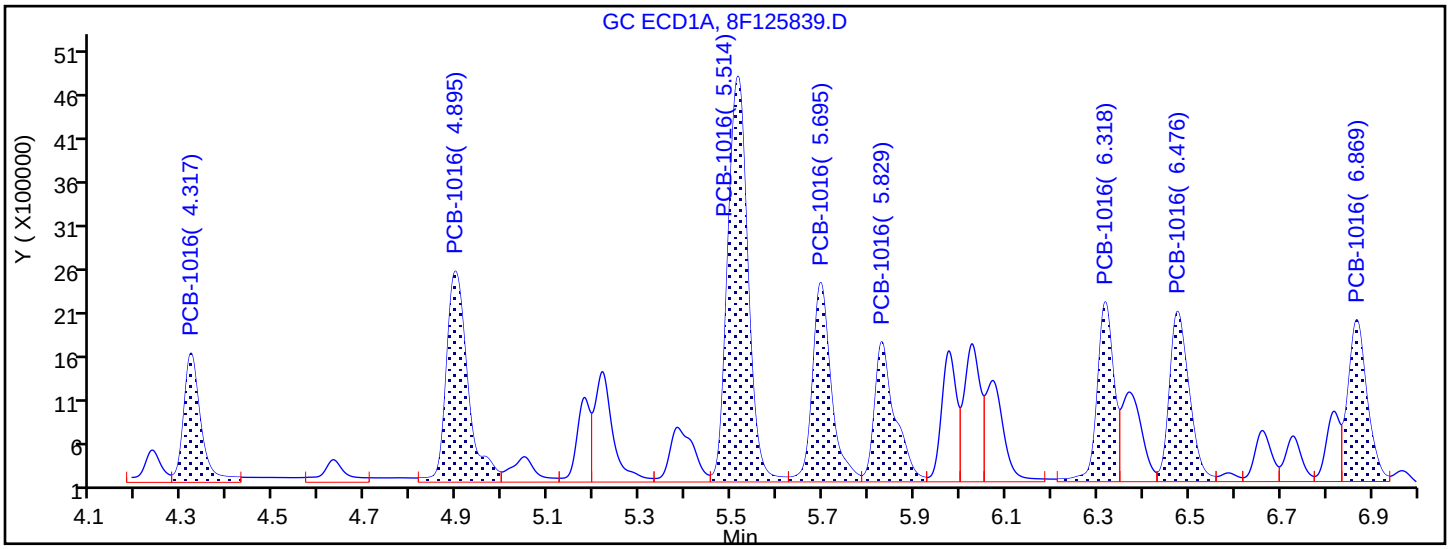
Column: Detector GC ECD1A

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.317	Response = 3418477
4.895	Response = 7312567
5.514	Response = 13645422
5.695	Response = 6091598
5.829	Response = 4629964
6.318	Response = 4887387
6.476	Response = 5577611
6.869	Response = 5233333



Manual Integration Results

4.317	Response = 3831317	M
4.895	Response = 7808735	M
5.514	Response = 14044127	M
5.695	Response = 6446563	M
5.829	Response = 4931078	M
6.318	Response = 5115007	M

Report Date: 21-Mar-2018 12:55:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D

Injection Date: 21-Mar-2018 06:32:30 Instrument ID: CPESTGC8

Lims ID: CCVIS

Client ID:

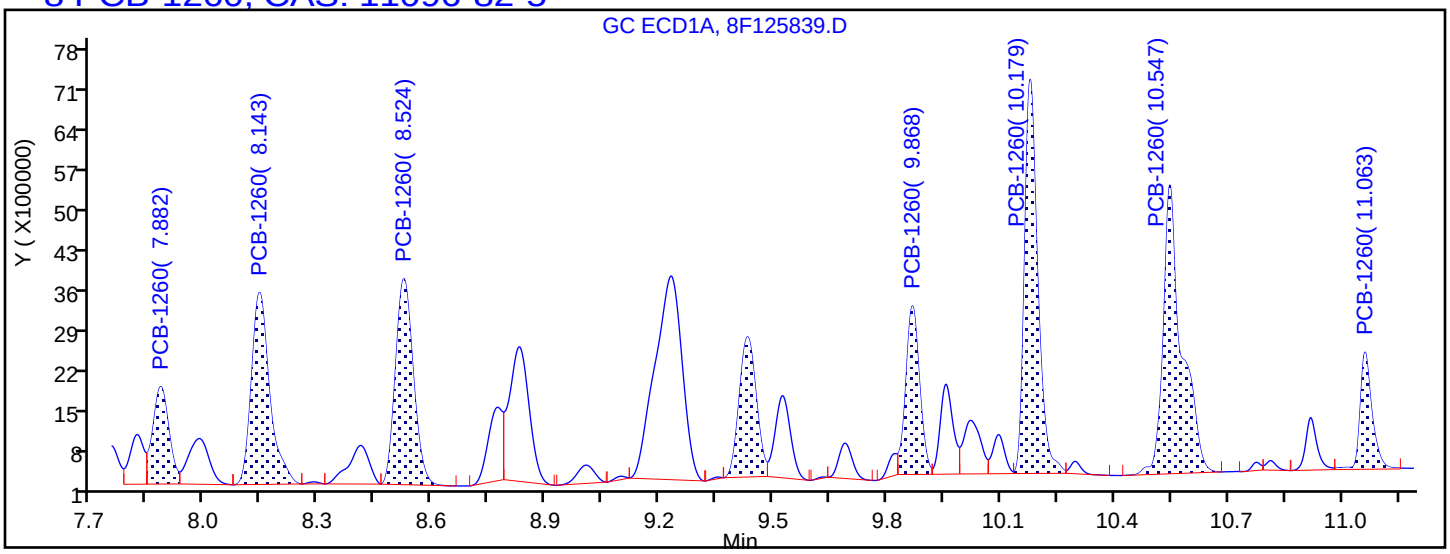
Operator ID: ALS Bottle#: 45 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

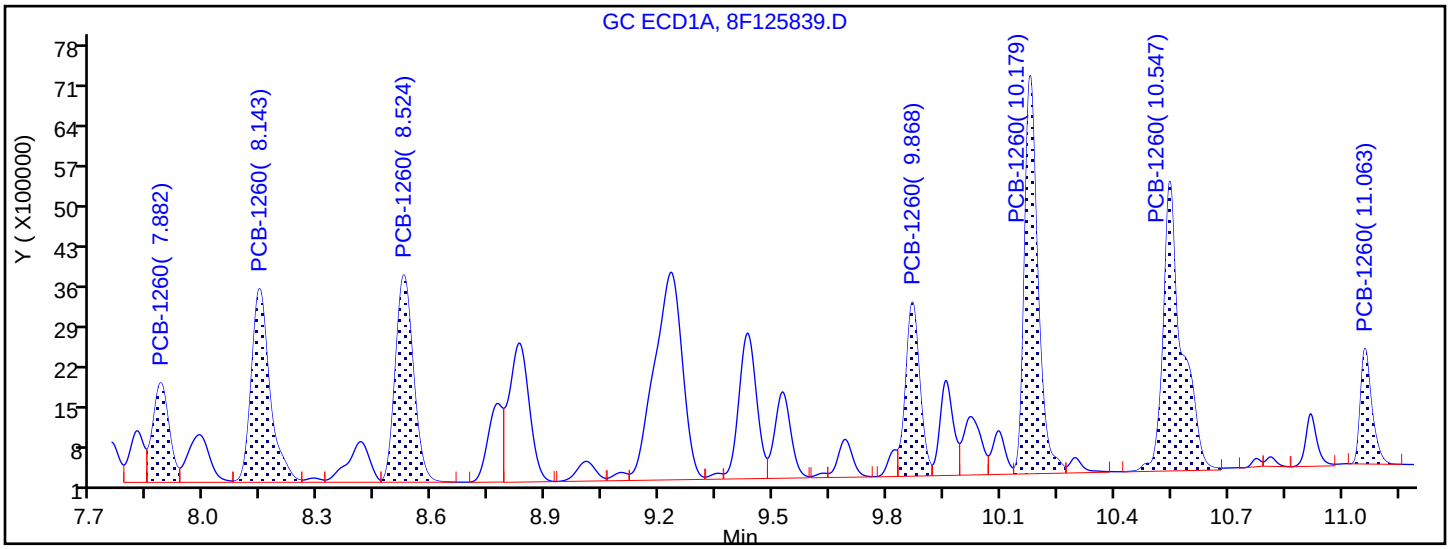
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.882	Response = 5000816
8.143	Response = 11067655
8.524	Response = 11609608
9.432	Response = 7601422
9.868	Response = 7343020
10.179	Response = 16484112
10.547	Response = 16699720
11.063	Response = 4398786



Manual Integration Results

7.882	Response = 5190946	M
8.143	Response = 11394229	M
8.524	Response = 11805845	M
9.432	Response = 0	
9.868	Response = 7859552	M
10.179	Response = 17052363	M

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505006/2 Calibration Date: 03/21/2018 06:32

Instrument ID: CPESTGC8 Calib Start Date: 12/14/2017 12:17

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 12/14/2017 14:40

Lab File ID: 8F125839.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0145	0.0131		902	1000	-9.8	20.0
PCB-1016 Peak 2	Ave	0.0296	0.0263		888	1000	-11.2	20.0
PCB-1016 Peak 3	Ave	0.0189	0.0174		920	1000	-8.0	20.0
PCB-1016 Peak 4	Ave	0.0628	0.0553		879	1000	-12.1	20.0
PCB-1016 Peak 5	Ave	0.0244	0.0214		878	1000	-12.2	20.0
PCB-1016 Peak 6	Ave	0.0169	0.0201		1190	1000	19.1	20.0
PCB-1016 Peak 7	Ave	0.0267	0.0241		903	1000	-9.7	20.0
PCB-1016 Peak 8	Ave	0.0155	0.0130		840	1000	-16.0	20.0
PCB-1260 Peak 1	Ave	0.0391	0.0359		920	1000	-8.0	20.0
PCB-1260 Peak 2	Ave	0.0693	0.0659		950	1000	-5.0	20.0
PCB-1260 Peak 3	Ave	0.0308	0.0243		0.0990	1000	-20.9*	20.0
PCB-1260 Peak 4	Ave	0.0345	0.0323		935	1000	-6.5	20.0
PCB-1260 Peak 5	Ave	0.0847	0.0763		901	1000	-9.9	20.0
PCB-1260 Peak 6	Ave	0.0444	0.0397		894	1000	-10.6	20.0
PCB-1260 Peak 7	Ave	0.0237	0.0236		997	1000	-0.3	20.0
PCB-1260 Peak 8	Ave	0.0196	0.0193		986	1000	-1.4	20.0
Tetrachloro-m-xylene	Ave	0.6211	0.5427		87.4	100	-12.6	20.0
DCB Decachlorobiphenyl	Ave	0.6606	0.5800		87.8	100	-12.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: CCVIS 460-505006/2 Calibration Date: 03/21/2018 06:32

Instrument ID: CPESTGC8 Calib Start Date: 12/14/2017 12:17

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 12/14/2017 14:40

Lab File ID: 8F125839.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.40	3.37	3.43
PCB-1016 Peak 2	3.88	3.85	3.91
PCB-1016 Peak 3	4.13	4.10	4.16
PCB-1016 Peak 4	4.48	4.45	4.51
PCB-1016 Peak 5	4.65	4.62	4.68
PCB-1016 Peak 6	4.72	4.69	4.75
PCB-1016 Peak 7	5.18	5.15	5.21
PCB-1016 Peak 8	5.66	5.63	5.69
PCB-1260 Peak 1	6.70	6.67	6.73
PCB-1260 Peak 2	7.44	7.41	7.47
PCB-1260 Peak 3	7.62	7.59	7.65
PCB-1260 Peak 4	7.99	7.96	8.02
PCB-1260 Peak 5	8.52	8.49	8.55
PCB-1260 Peak 6	9.04	9.01	9.07
PCB-1260 Peak 7	9.23	9.20	9.26
PCB-1260 Peak 8	10.04	10.01	10.07
Tetrachloro-m-xylene	2.88	2.85	2.91
DCB Decachlorobiphenyl	10.52	10.49	10.55

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2018 06:32:30 ALS Bottle#: 45 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069051-028
Operator ID: Instrument ID: CPESTGC8
Sublist: chrom-8082ISTD*sub1

Method: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8082ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:55:43 Calib Date: 14-Dec-2017 17:35:01
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC8\20171214-64820.b\8F123341.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: zhangj Date: 21-Mar-2018 08:45:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	2.279	2.279	0.000	4657437	20.0	20.0	
2	1.923	1.923	0.000	10574424	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	3.565	3.565	0.000	20859039	100.0	94.7	
2	2.884	2.884	0.000	28691142	100.0	87.4	
						RPD = 8.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	4.317	4.317	0.000	3831317	1000.0	872.4	M
1	4.895	4.895	0.000	7808735	1000.0	857.4	M
1	5.514	5.514	0.000	14044127	1000.0	852.6	M
1	5.695	5.695	0.000	6446563	1000.0	914.0	M
1	5.829	5.829	0.000	4931078	1000.0	911.7	M
1	6.318	6.318	0.000	5115007	1000.0	956.9	M
1	6.476	6.476	0.000	5770171	1000.0	954.0	M
1	6.869	6.869	0.000	5345898	1000.0	1106.0	M
		Average of Peak Amounts =				928.1	
2	3.401	3.401	0.000	6910844	1000.0	902.3	
2	3.876	3.876	0.000	13903368	1000.0	887.7	
2	4.129	4.129	0.000	9184103	1000.0	920.0	
2	4.476	4.476	0.000	29212029	1000.0	879.5	
2	4.649	4.649	0.000	11324556	1000.0	878.4	
2	4.724	4.724	0.000	10612193	1000.0	1190.9	
2	5.177	5.177	0.000	12739590	1000.0	903.2	
2	5.656	5.656	0.000	6874383	1000.0	840.2	
		Average of Peak Amounts =				925.3	
						RPD = 0.31	
8 PCB-1260							M
1	7.882	7.882	0.000	5190946	1000.0	1013.0	M
1	8.143	8.143	0.000	11394229	1000.0	1032.9	M
1	8.524	8.524	0.000	11805845	1000.0	956.0	M
1	0.000	9.432	0.000	0	1000.0	0	
1	9.868	9.868	0.000	7859552	1000.0	980.0	M
1	10.179	10.179	0.000	17052363	1000.0	1029.7	M
1	10.547	10.547	0.000	16965418	1000.0	1105.1	M
1	11.063	11.063	0.000	4145789	1000.0	1001.9	M
		Average of Peak Amounts =				1016.9	
2	6.700	6.700	0.000	18993820	1000.0	919.7	M
2	7.442	7.442	0.000	34833230	1000.0	950.1	M
2	0.000	7.617	0.000	0	1000.0	0	
2	7.987	7.987	0.000	17063545	1000.0	935.3	M
2	8.515	8.515	0.000	40359054	1000.0	901.1	M
2	9.044	9.044	0.000	21009962	1000.0	894.4	M
2	9.229	9.229	0.000	12469159	1000.0	996.9	M
2	10.042	10.042	0.000	10224513	1000.0	986.0	
		Average of Peak Amounts =				940.5	
						RPD = 7.81	
$ 11 DCB Decachlorobiphenyl							
1	11.524	11.524	0.000	13897772	100.0	96.4	
2	10.519	10.519	0.000	30664479	100.0	87.8	
						RPD = 9.29	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

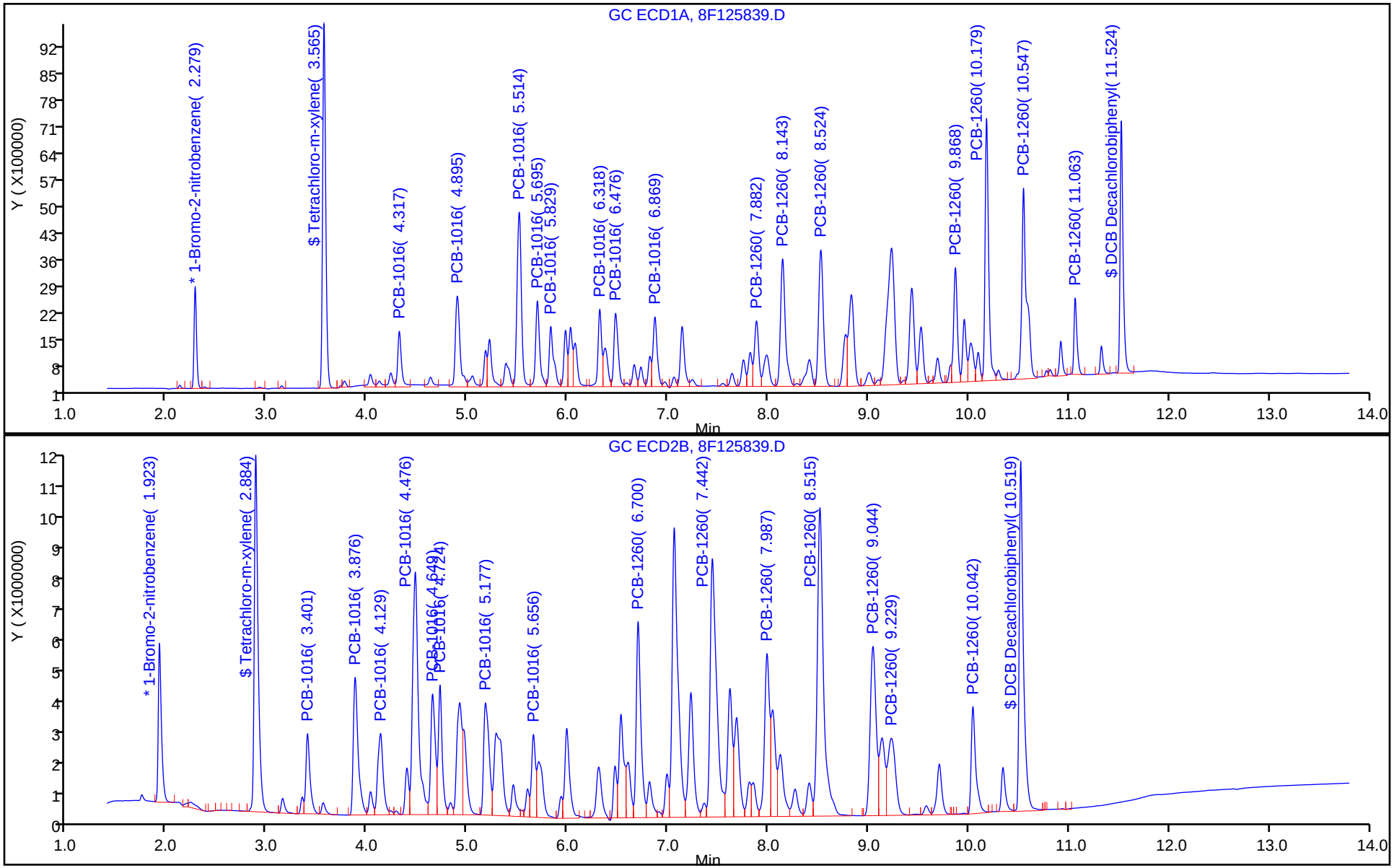
SG1660L3_00032	Amount Added:	1.00	Units: mL	
SGPCBISTD_00010	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 21-Mar-2018 12:55:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D

Injection Date:	21-Mar-2018 06:32:30	Instrument ID:	CPESTGC8	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	8082ISTD	Limit Group:	GC 8082A PCB ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

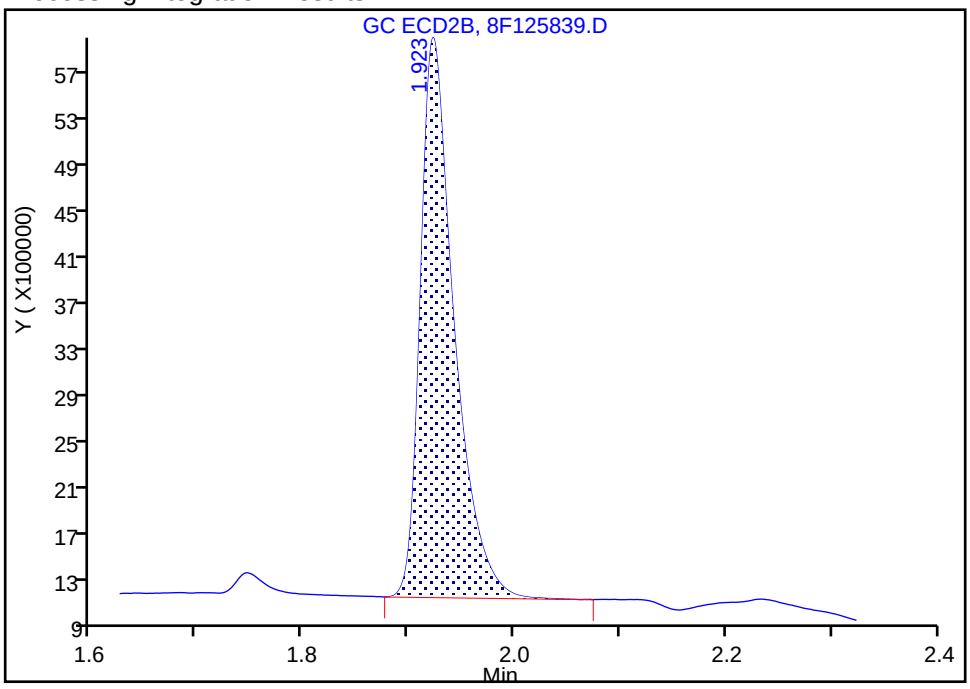
Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D
Injection Date: 21-Mar-2018 06:32:30 Instrument ID: CPESTGC8
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 45 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082ISTD Limit Group: GC 8082A PCB ISTD
Column: Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

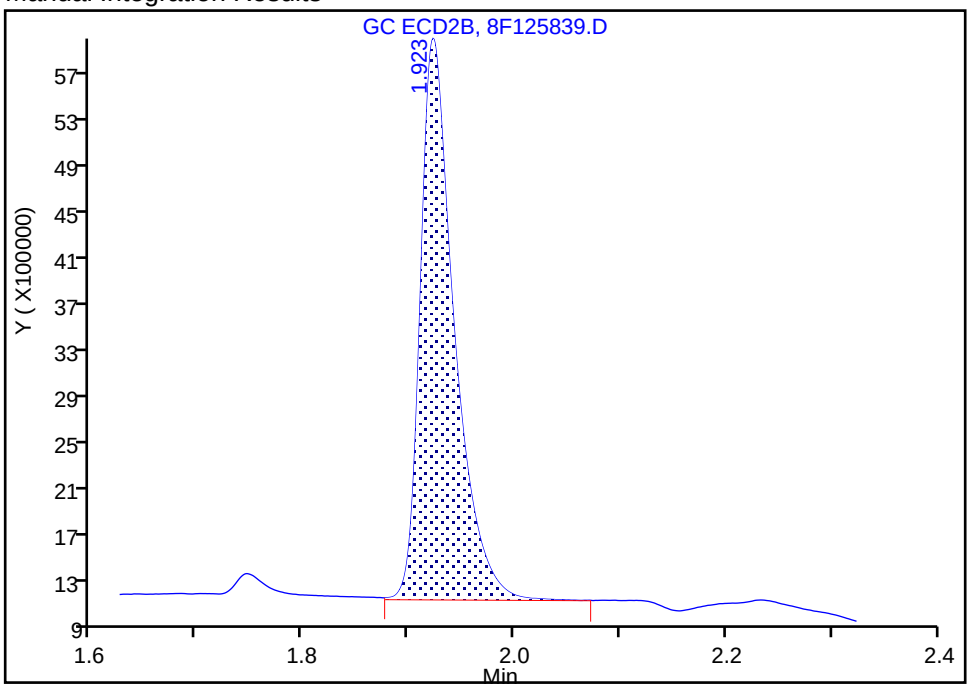
Processing Integration Results

RT: 1.92
Area: 10477069
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 10574424
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 21-Mar-2018 10:51:43
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Report Date: 21-Mar-2018 12:55:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC8\20180321-69082.b\8F125839.D

Injection Date: 21-Mar-2018 06:32:30 Instrument ID: CPESTGC8

Lims ID: CCVIS

Client ID:

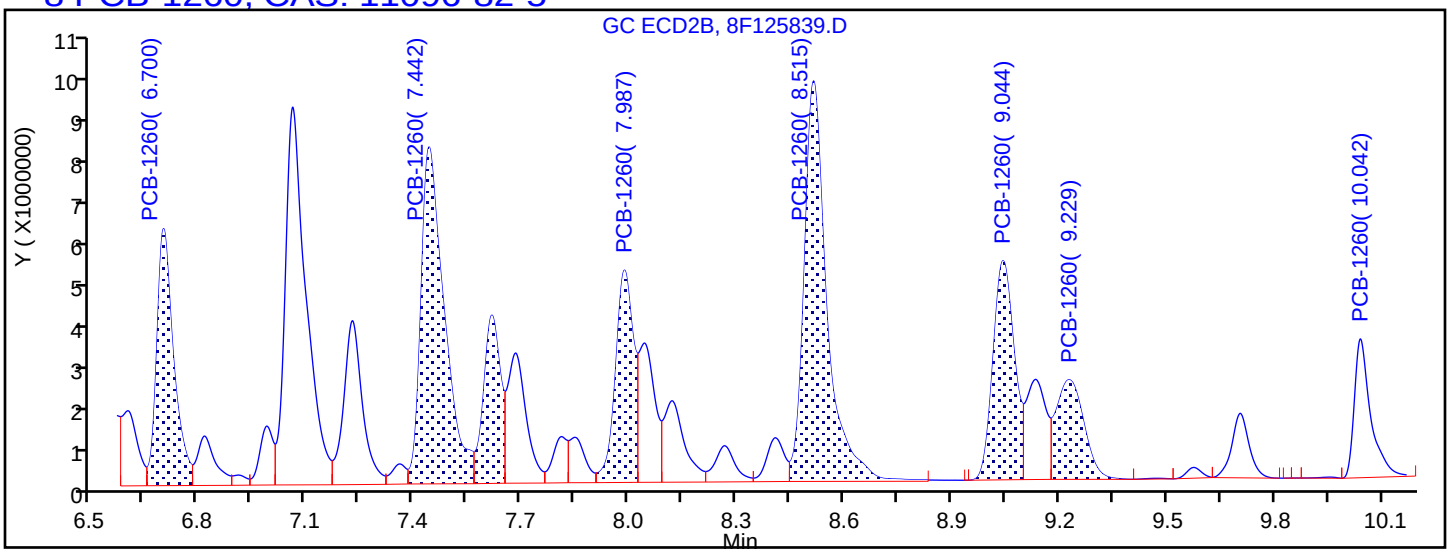
Operator ID: ALS Bottle#: 45 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082ISTD Limit Group: GC 8082A PCB ISTD

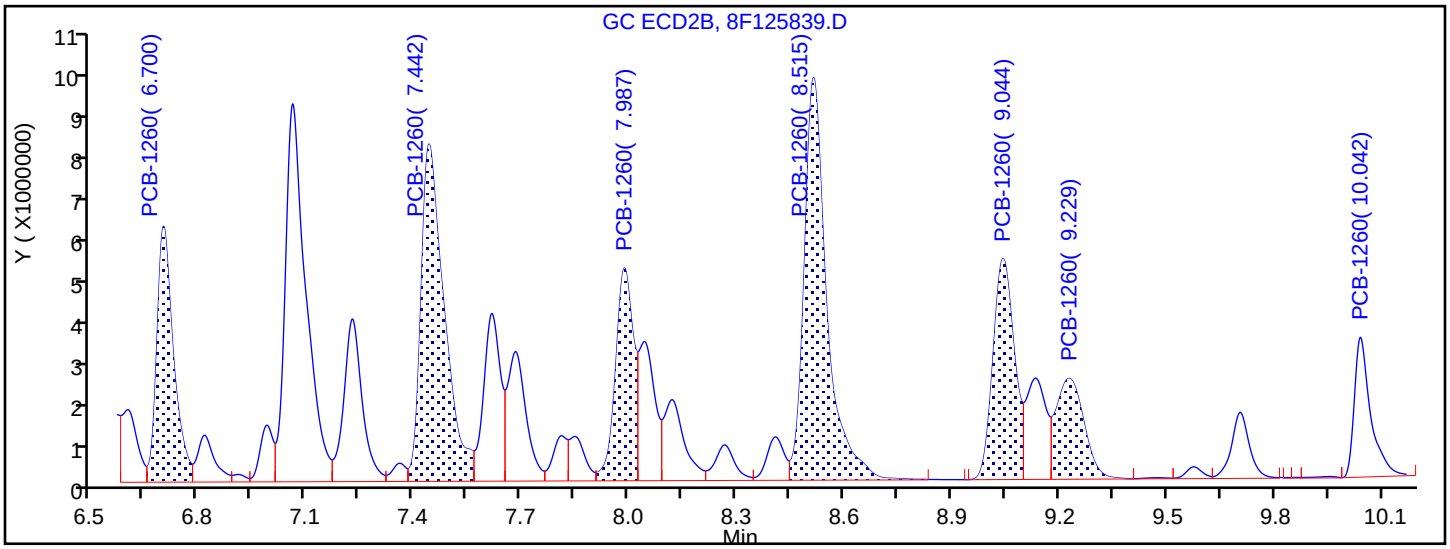
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.700	Response = 19506225
7.442	Response = 35327231
7.617	Response = 12871049
7.987	Response = 17245927
8.515	Response = 40747561
9.044	Response = 20951188
9.229	Response = 12356531
10.042	Response = 10224513



Manual Integration Results

6.700	Response = 18993820	M
7.442	Response = 34833230	M
7.617	Response = 0	
7.987	Response = 17063545	M
8.515	Response = 40359054	M
9.044	Response = 21009962	M

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-504716/1-A

Matrix: Water Lab File ID: 7R013926.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) Date Analyzed: 03/21/2018 08:11

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

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505004 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	104		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013926.D
Lims ID: MB 460-504716/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2018 08:11:37 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.333	3.323	0.010	50806	20.0	20.0	
2	2.890	2.893	-0.003	26951	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.130	5.120	0.010	221242	100.0	95.7	
2	4.290	4.293	-0.003	141842	100.0	89.9	
						RPD = 6.26	

Report Date: 21-Mar-2018 12:19:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013926.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	16.947	16.943	0.004	186431	100.0	103.9	
2	15.310	15.310	0.000	187924	100.0	108.8	
						RPD = 4.62	

Reagents:

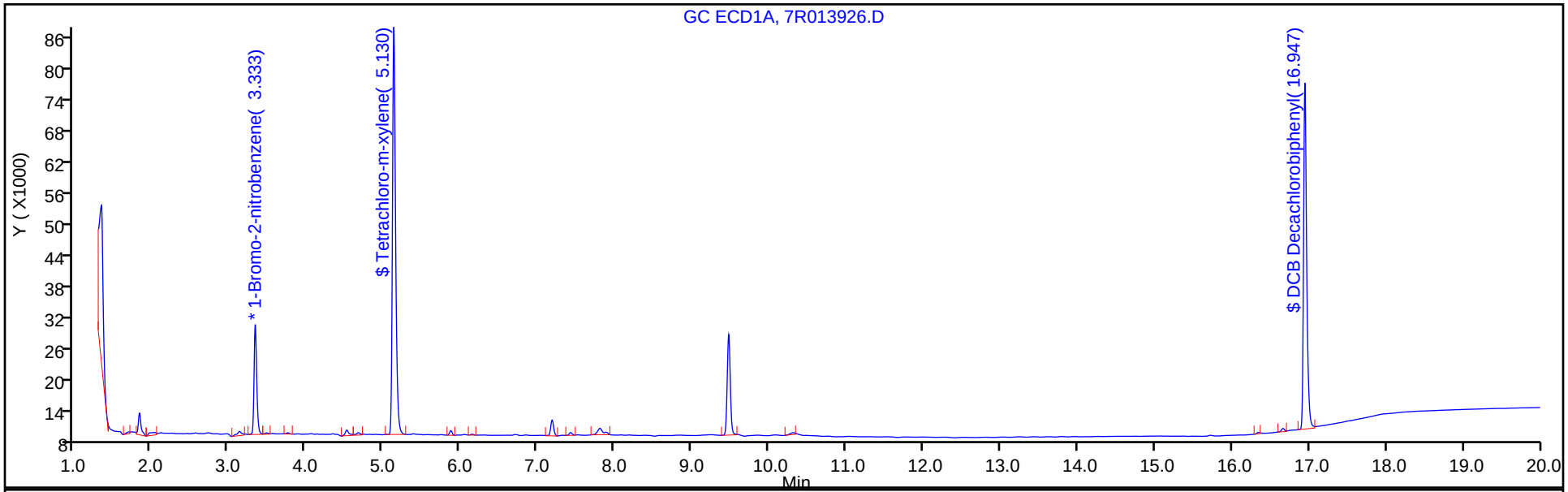
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

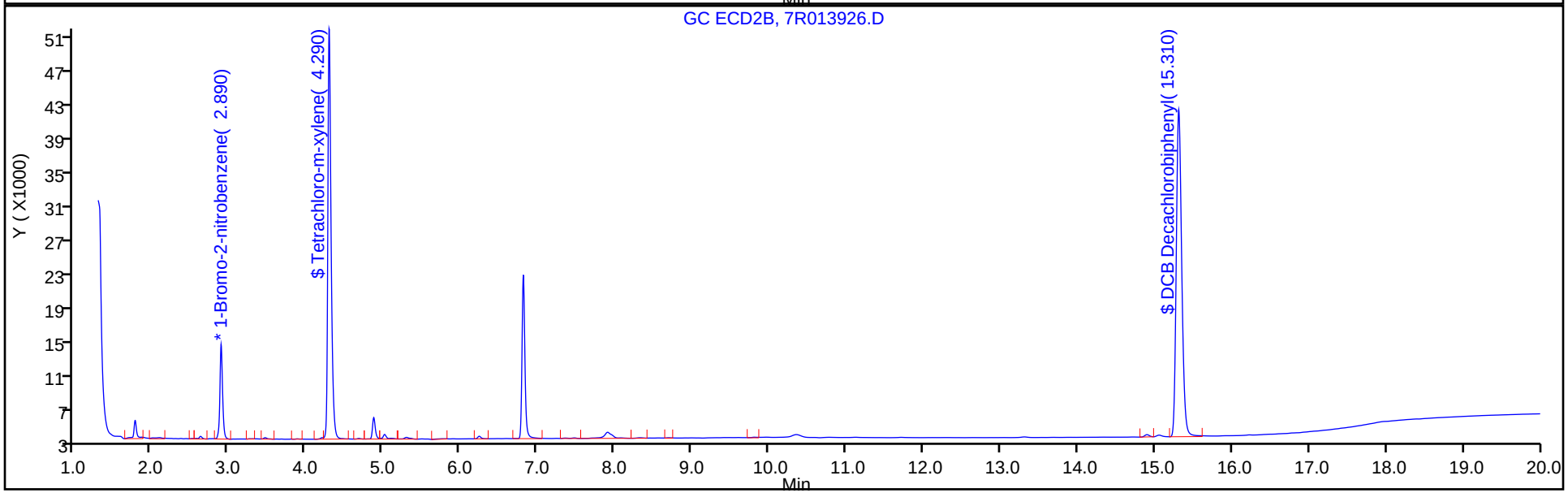
Report Date: 21-Mar-2018 12:19:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013926.D

Injection Date:	21-Mar-2018 08:11:37	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	MB 460-504716/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504716/1-A

Matrix: Water | Lab File ID: 7R013926.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 08:11

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

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 505004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.10	U	0.40	0.10
11104-28-2	Aroclor 1221	0.10	U	0.40	0.10
11141-16-5	Aroclor 1232	0.10	U	0.40	0.10
53469-21-9	Aroclor 1242	0.10	U	0.40	0.10
12672-29-6	Aroclor 1248	0.10	U	0.40	0.10
11097-69-1	Aroclor 1254	0.099	U	0.40	0.099
11096-82-5	Aroclor 1260	0.099	U	0.40	0.099
11100-14-4	Aroclor 1268	0.099	U	0.40	0.099
37324-23-5	Aroclor-1262	0.099	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.10	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013926.D
Lims ID: MB 460-504716/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2018 08:11:37 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.333	3.323	0.010	50806	20.0	20.0	
2	2.890	2.893	-0.003	26951	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.130	5.120	0.010	221242	100.0	95.7	
2	4.290	4.293	-0.003	141842	100.0	89.9	
						RPD = 6.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	16.947	16.943	0.004	186431	100.0	103.9	
2	15.310	15.310	0.000	187924	100.0	108.8	
						RPD = 4.62	

Reagents:

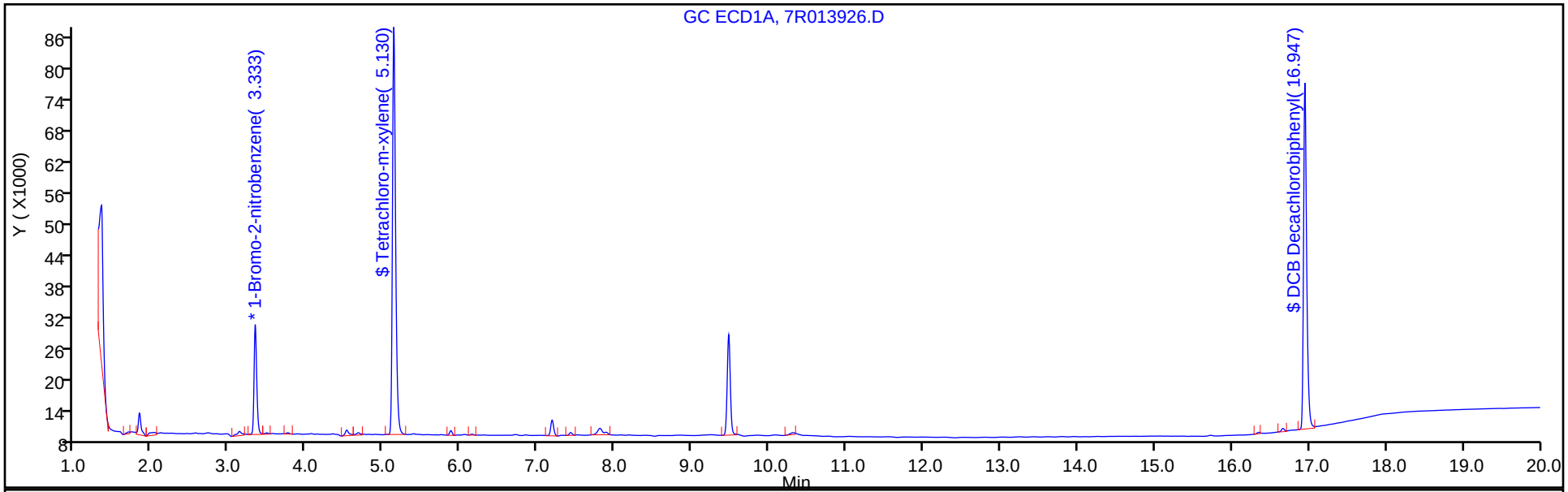
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

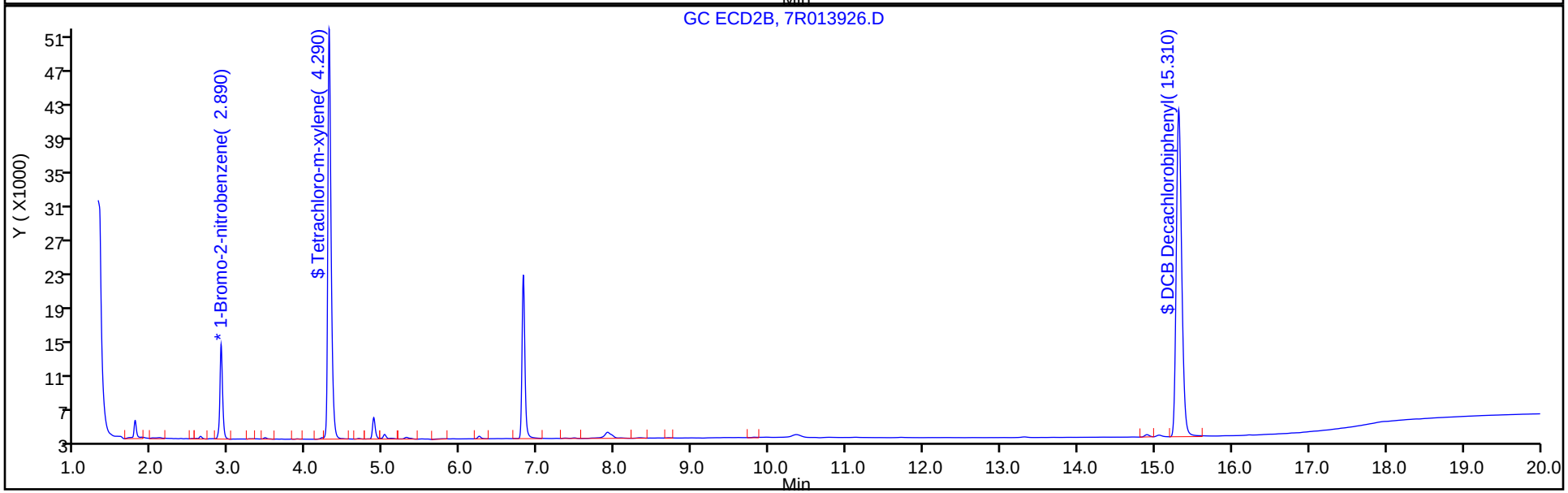
Report Date: 21-Mar-2018 12:19:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013926.D

Injection Date:	21-Mar-2018 08:11:37	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	MB 460-504716/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504830/1-A

Matrix: Solid | Lab File ID: T142250.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 08:04

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Lims ID: MB 460-504830/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 08:04:10 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.467	1.461	0.006	34954537	20.0	20.0	
2	1.267	1.269	-0.002	48622706	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.363	2.352	0.011	72219087	50.0	46.7	
2	1.889	1.890	-0.001	111437933	50.0	50.9	
						RPD = 8.65	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							a
1	10.840	10.798	0.042	69480356	50.0	48.9	a
2	9.531	9.521	0.010	106323587	50.0	56.3	
						RPD = 13.99	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

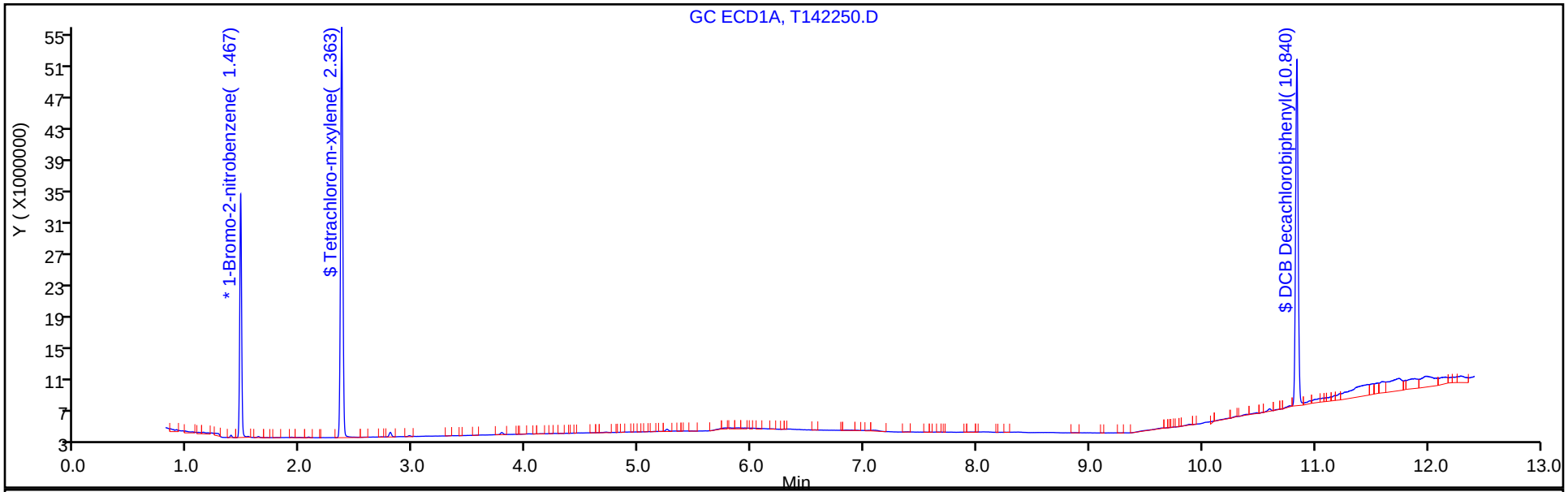
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

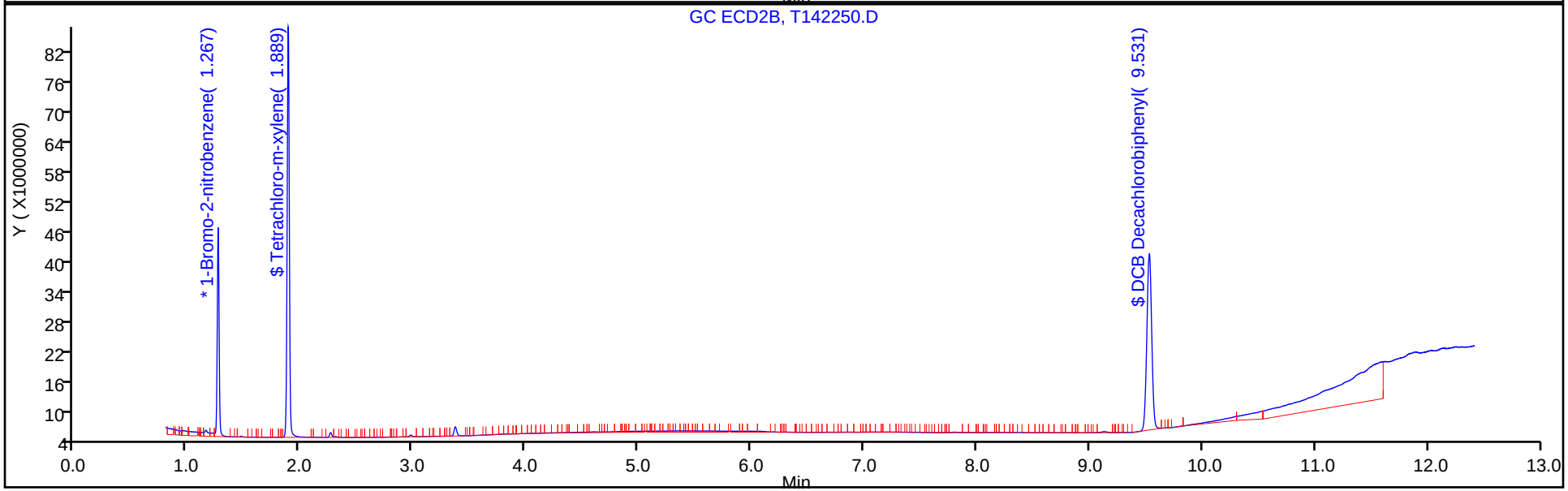
Report Date: 22-Mar-2018 15:07:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D

Injection Date:	22-Mar-2018 08:04:10	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	MB 460-504830/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





Report Date: 22-Mar-2018 15:07:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D

Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11

Lims ID: MB 460-504830/1-A

Client ID:

Operator ID: ALS Bottle#: 3 Worklist Smp#: 3

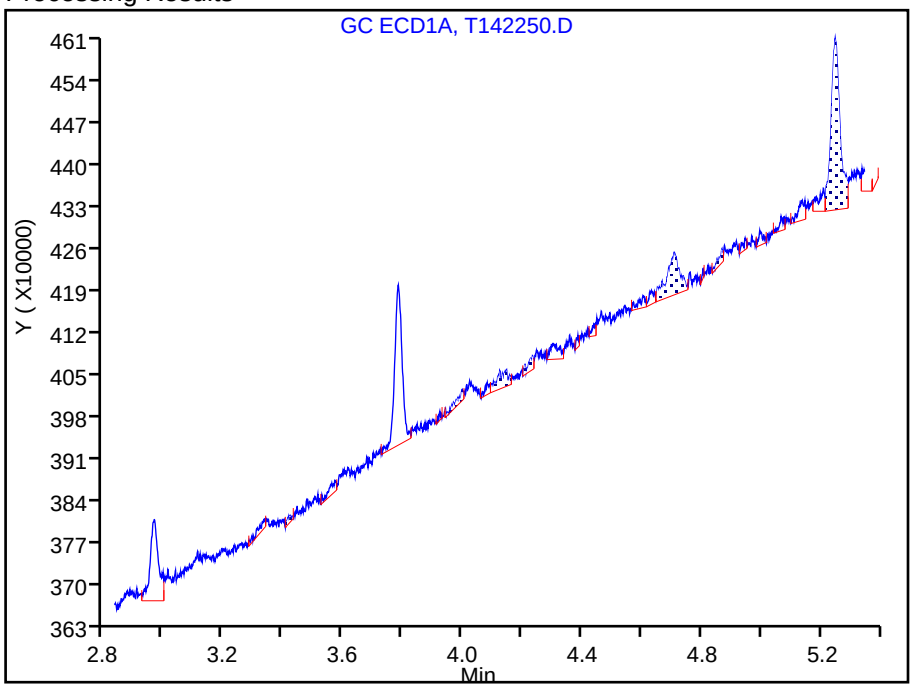
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

5 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.93			
3.42	3.42	10642	0.217234
3.97	4.00	29259	0.256916
4.14	4.12	67119	1.510304
4.26	4.23	29499	0.993169
4.71	4.71	206971	5.953287
4.86	4.87	22794	0.571250
5.23	5.25	596571	19.541742
		Average =	4.149129



Reviewer: patelji, 22-Mar-2018 14:21:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

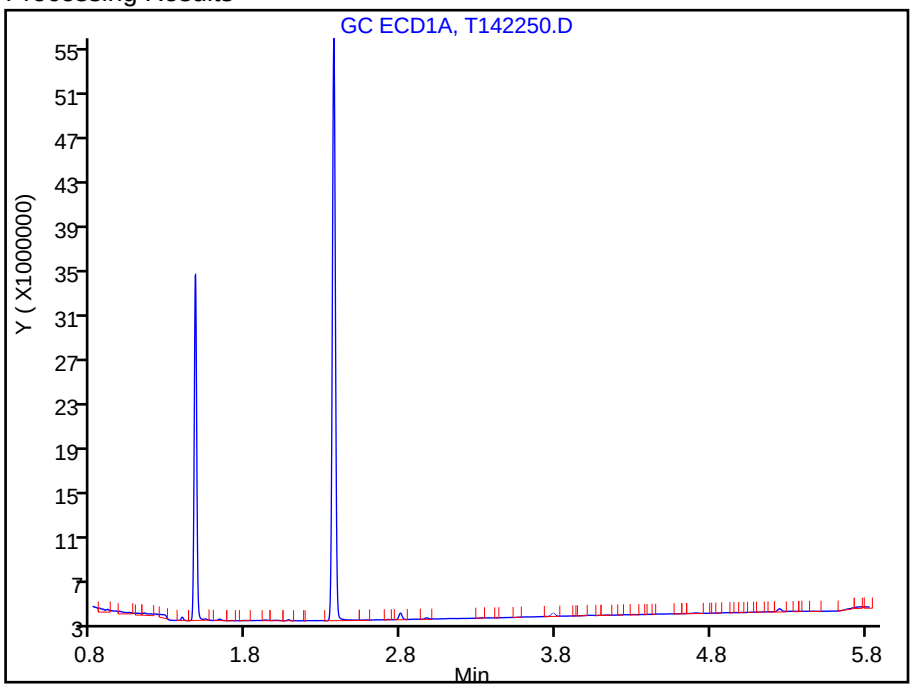
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

3 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.30			
3.80	3.78	467978	19.386347
0.00			
4.56			
4.69	4.71	206971	12.696071
5.15	5.14	52617	3.633841
0.00			
5.70	5.73	246032	15.125404
		Average =	9.404168



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

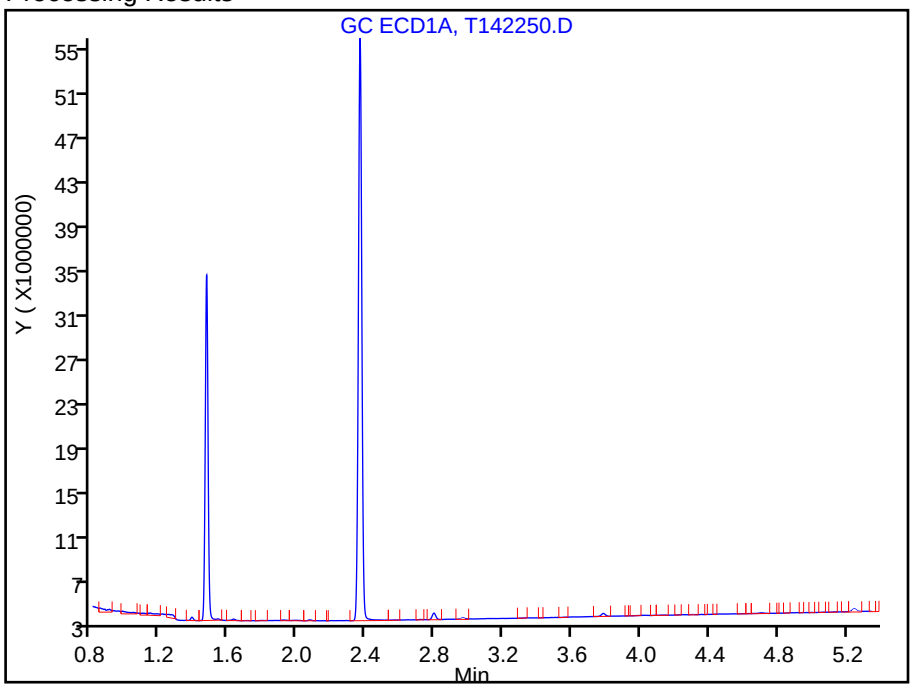
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

4 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.98	2.97	267570	11.984478
3.47			
4.03			
0.00			
4.31	4.30	56530	2.281866
4.90	4.87	22794	0.661283
0.00			
5.27	5.25	596571	17.332405
		Average =	7.647057



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

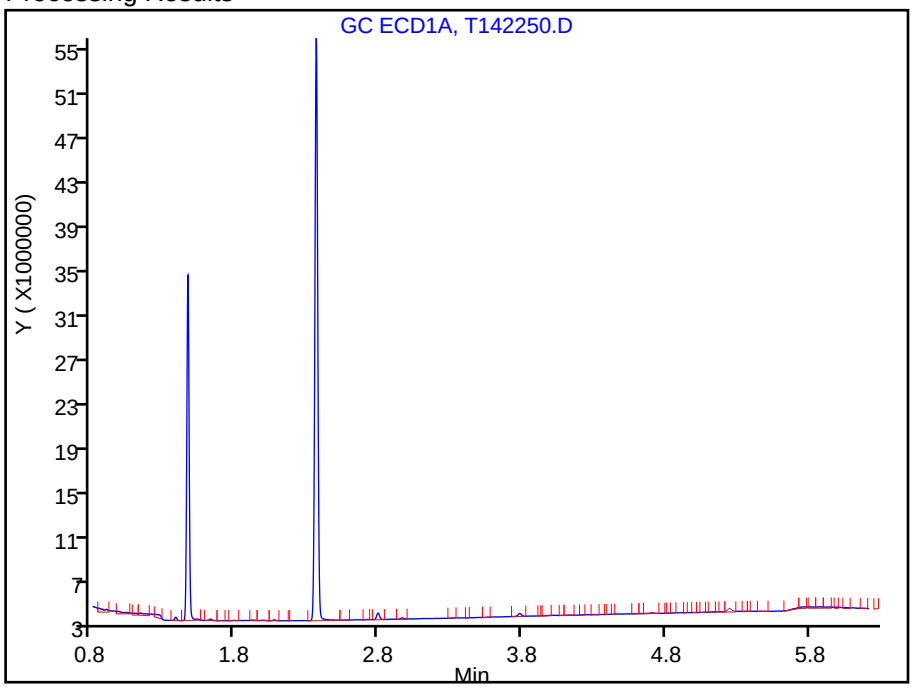
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
4.03			
4.42	4.45	17597	0.530744
4.48			
4.90	4.87	22794	0.457878
0.00			
5.27	5.25	596571	10.253942
6.12			
		Average =	3.747521



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

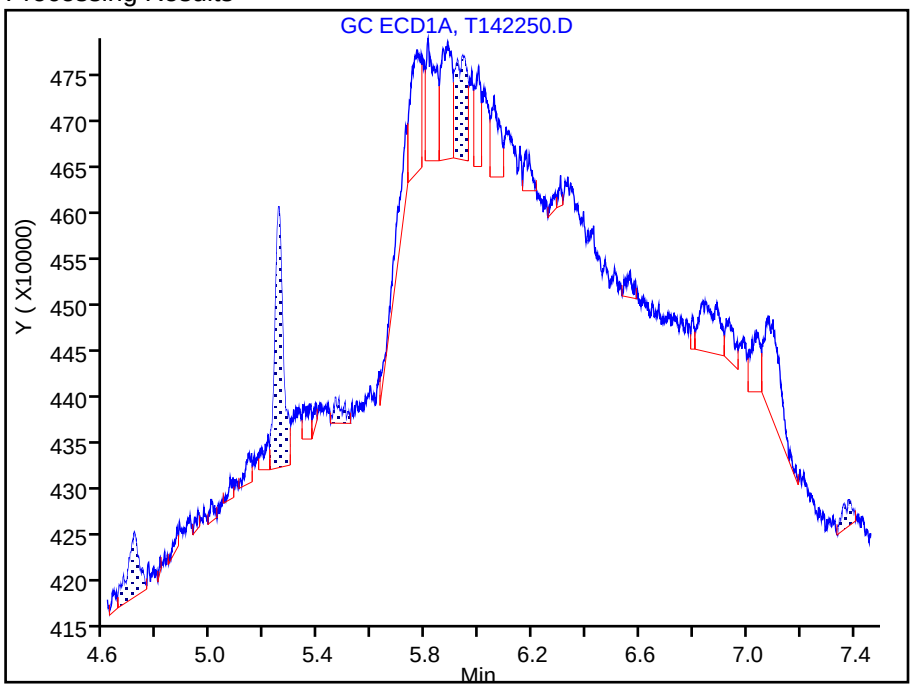
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.72	4.71	206971	12.398881
5.24	5.25	596571	11.444073
5.49	5.46	54024	0.881275
5.94	5.92	334769	6.826612
6.10			
6.45			
7.00			
7.34	7.37	66902	0.678180
		Average =	3.717993



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

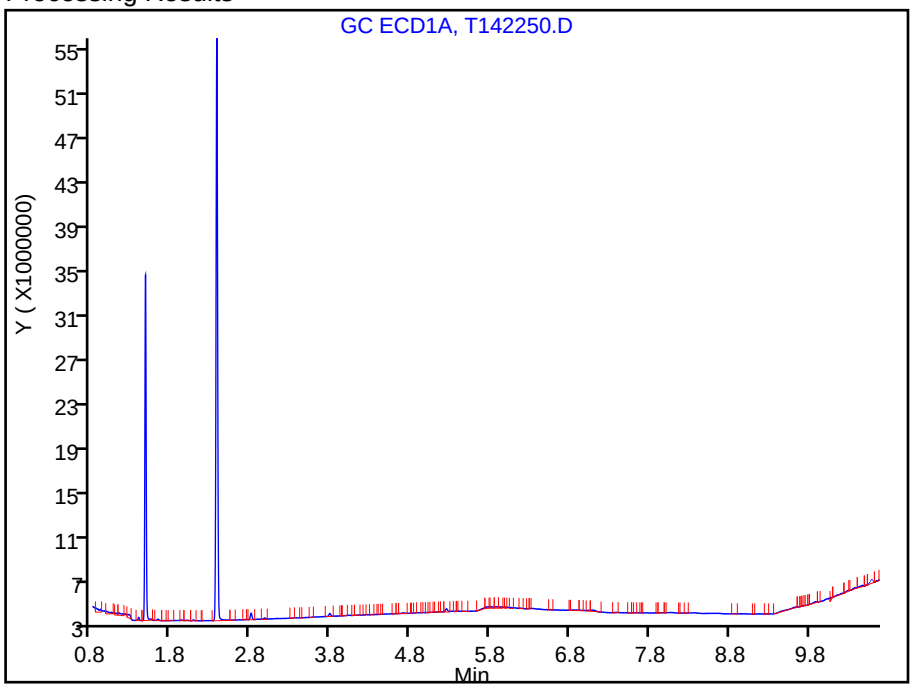
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

10 PCB-1268, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
7.56	7.54	29286	0.795181
0.00			
0.00			
0.00			
9.92	9.94	24678	0.135703
0.00			
10.60	10.60	627199	8.253950
0.00			
		Average =	0.332767



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

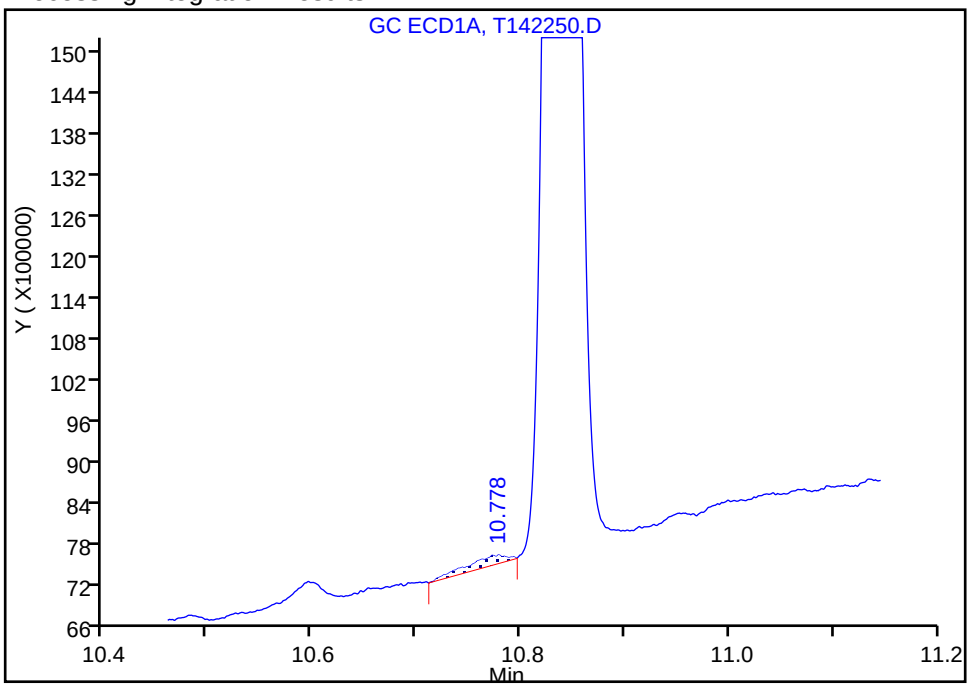
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D		
Injection Date:	22-Mar-2018 08:04:10	Instrument ID:	CPESTGC11
Lims ID:	MB 460-504830/1-A		
Client ID:			
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD
Column:		Detector	GC ECD1A

$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

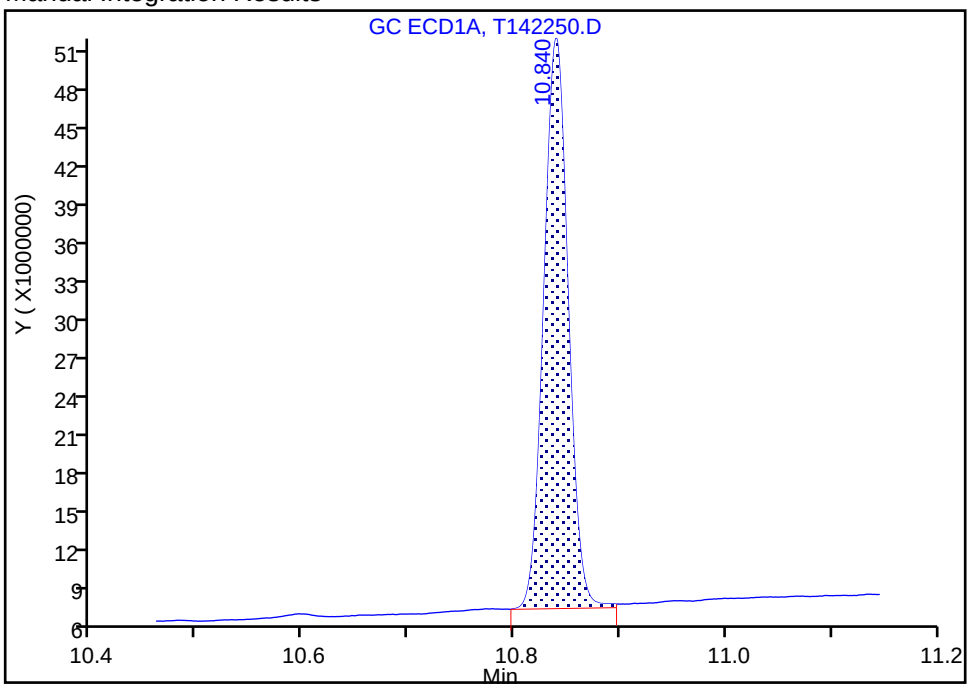
Processing Integration Results

RT: 10.78
Area: 393595
Amount: 0.276992
Amount Units: ug/l



Manual Integration Results

RT: 10.84
Area: 69480356
Amount: 48.896798
Amount Units: ug/l



Reviewer: patelji, 22-Mar-2018 14:21:23
Audit Action: Assigned Compound ID Audit Reason:

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-504830/1-A

Matrix: Solid | Lab File ID: T142250.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 08:04

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.0089	U	0.067	0.0089
11104-28-2	Aroclor 1221	0.0089	U	0.067	0.0089
11141-16-5	Aroclor 1232	0.0089	U	0.067	0.0089
53469-21-9	Aroclor 1242	0.0089	U	0.067	0.0089
12672-29-6	Aroclor 1248	0.0089	U	0.067	0.0089
11097-69-1	Aroclor 1254	0.0092	U	0.067	0.0092
11096-82-5	Aroclor 1260	0.0092	U	0.067	0.0092
11100-14-4	Aroclor 1268	0.0092	U	0.067	0.0092
37324-23-5	Aroclor-1262	0.0092	U	0.067	0.0092
1336-36-3	Polychlorinated biphenyls, Total	0.0092	U	0.067	0.0092

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Lims ID: MB 460-504830/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Mar-2018 08:04:10 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.467	1.461	0.006	34954537	20.0	20.0	
2	1.267	1.269	-0.002	48622706	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.363	2.352	0.011	72219087	50.0	46.7	
2	1.889	1.890	-0.001	111437933	50.0	50.9	
						RPD = 8.65	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							a
1	10.840	10.798	0.042	69480356	50.0	48.9	a
2	9.531	9.521	0.010	106323587	50.0	56.3	
						RPD = 13.99	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

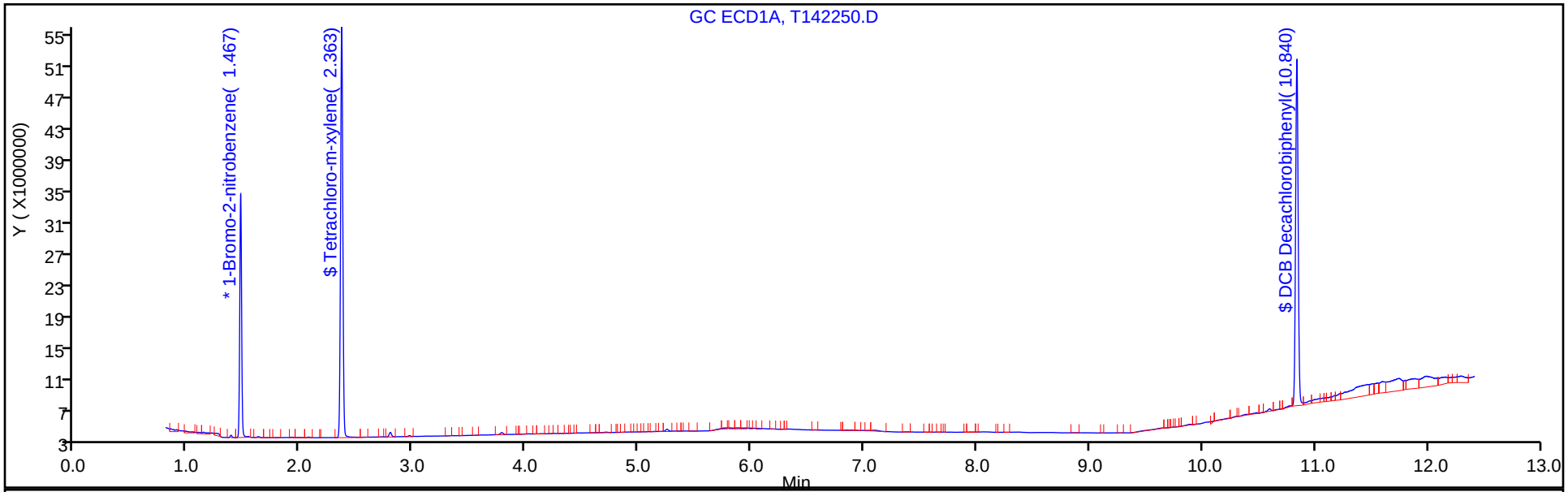
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

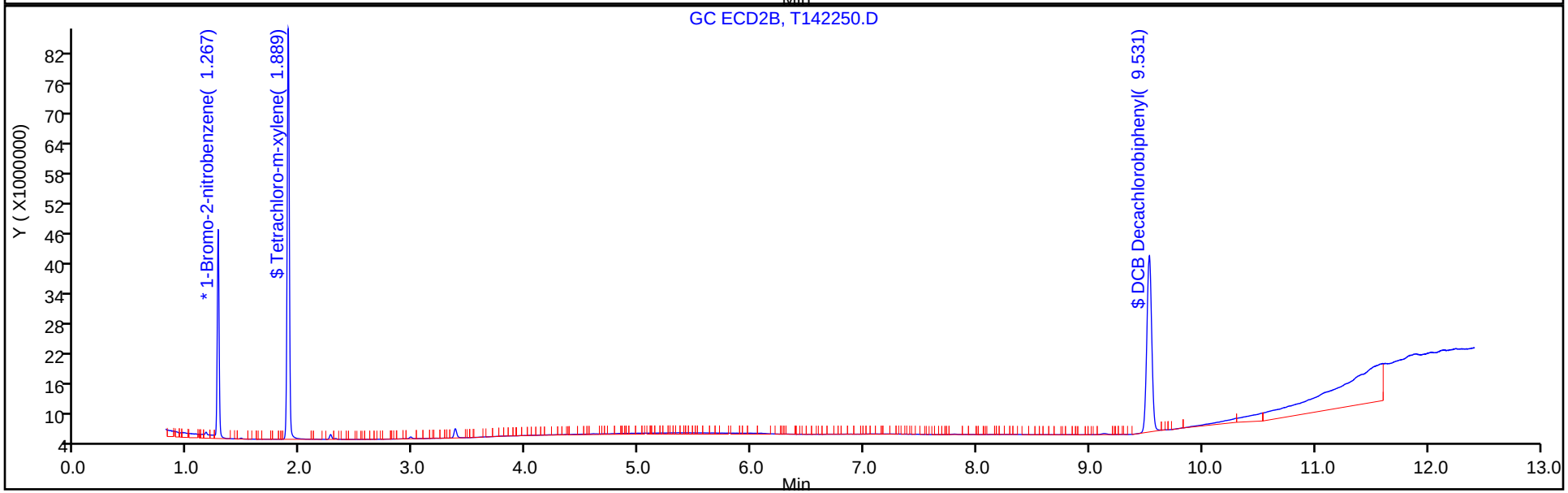
Report Date: 22-Mar-2018 15:07:32 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D

Injection Date:	22-Mar-2018 08:04:10	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	MB 460-504830/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

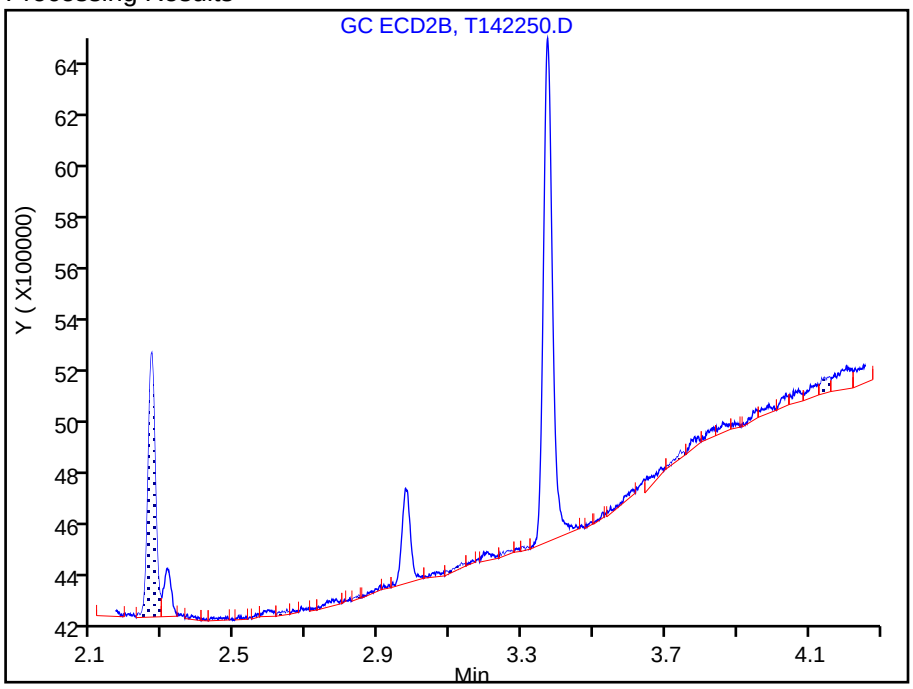
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

5 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.26	2.27	1362067	33.446051
2.63	2.63	19517	0.245285
2.84	2.84	9754	0.185851
3.13	3.13	32364	0.187907
3.27	3.27	21377	0.309311
3.34	3.31	11227	0.267769
3.74	3.74	34324	0.477935
4.17	4.16	95723	2.548510
		Average =	4.149129



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

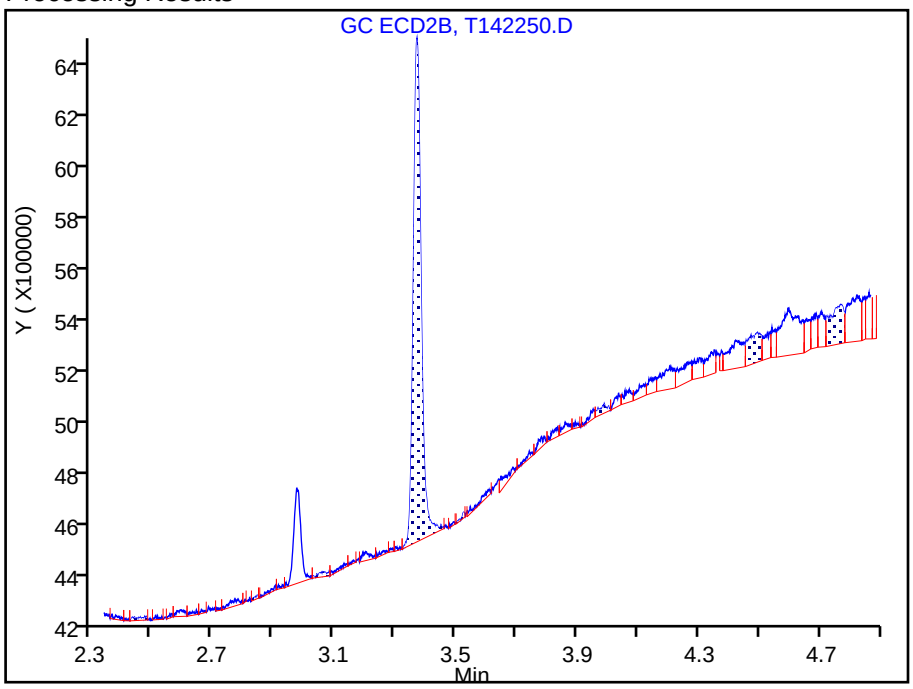
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

3 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.47	2.44	26256	0.509062
2.85	2.84	9754	0.248542
3.06	3.05	35434	1.359683
3.37	3.37	3271876	39.119697
3.53	3.53	13833	0.415793
4.01	3.99	57896	1.848850
4.48	4.50	316253	6.821596
4.77	4.77	446268	24.910120
		Average =	9.404168



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

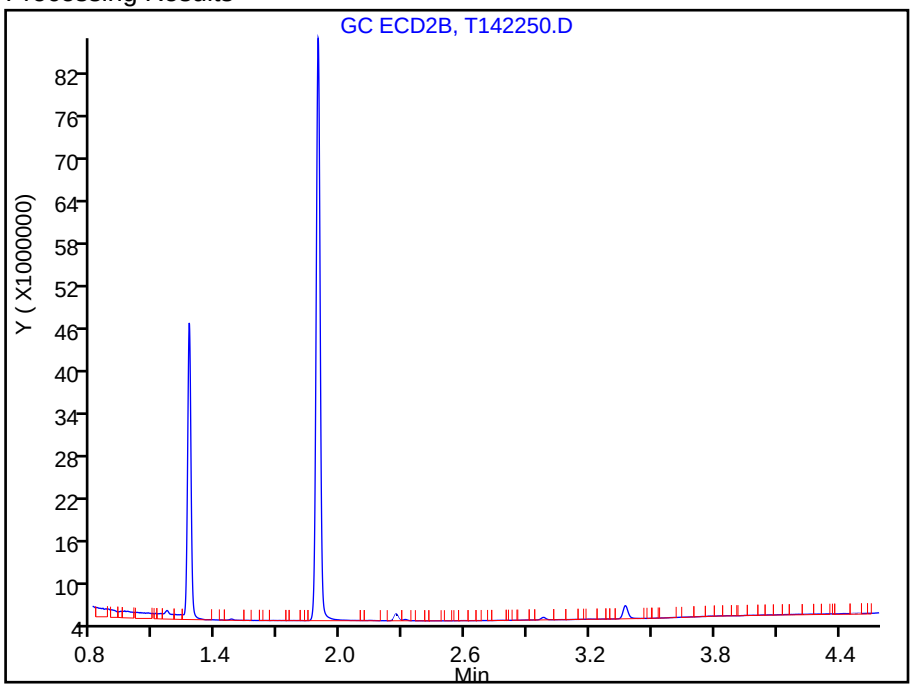
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

4 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.27	2.27	1362067	40.935934
2.63	2.63	19517	0.299835
2.85	2.84	9754	0.225636
3.14	3.13	32364	0.227901
3.28	3.27	21377	0.372712
0.00			
4.25	4.28	207369	2.322712
4.48	4.50	316253	9.144670
		Average =	7.647057



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

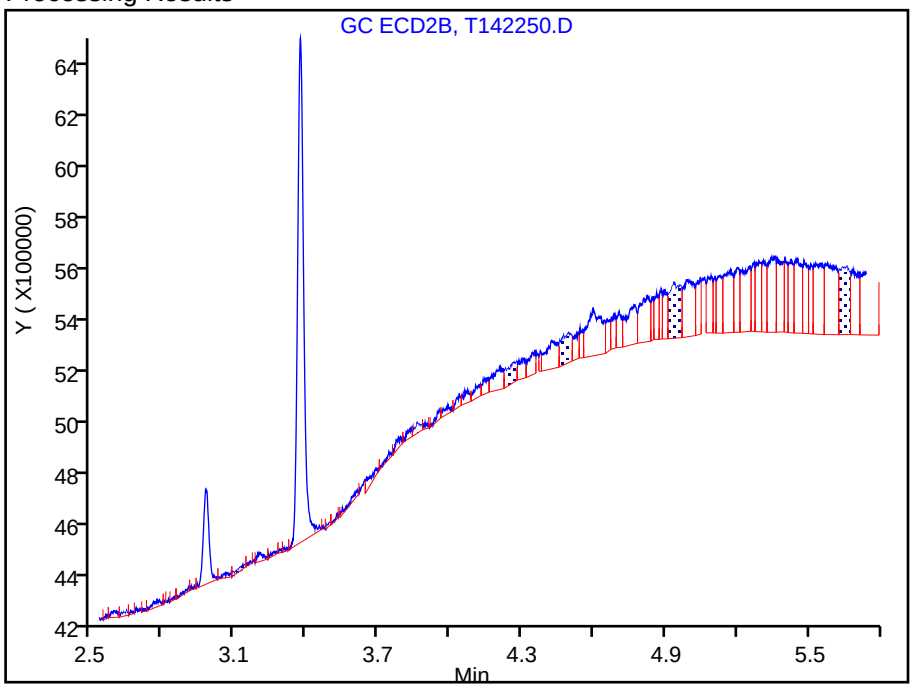
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.63	2.63	19517	0.485593
3.14	3.13	32364	0.294980
3.50	3.49	9740	0.089927
3.86	3.86	58047	0.957613
4.25	4.28	207369	1.215898
4.48	4.50	316253	4.239348
4.97	4.94	646784	13.134251
5.62	5.64	701527	20.875379
		Average =	3.747521



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

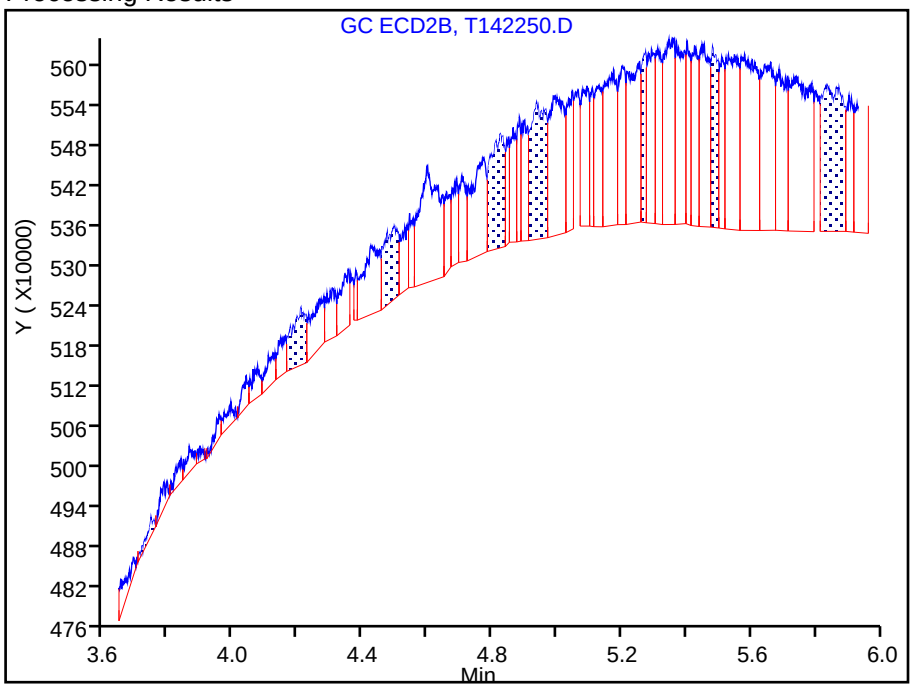
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.74	3.74	34324	1.182610
4.18	4.19	238836	3.140622
4.48	4.50	316253	2.983419
4.80	4.81	493349	5.940827
4.94	4.94	646784	4.470649
5.27	5.27	241735	2.100742
5.49	5.48	377411	3.644416
5.84	5.83	962589	6.280659
		Average =	3.717993



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

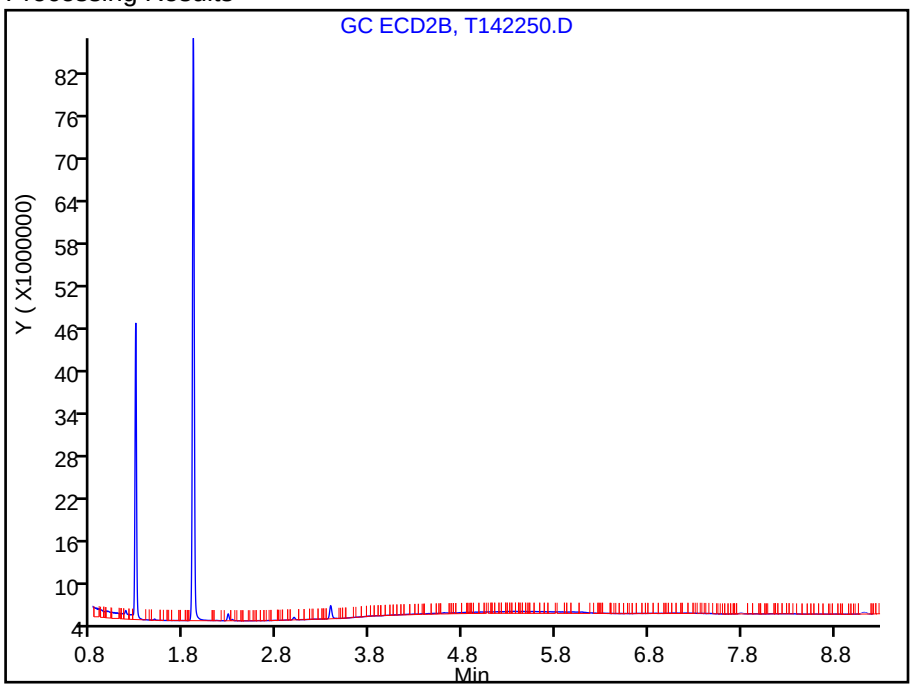
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142250.D
Injection Date: 22-Mar-2018 08:04:10 Instrument ID: CPESTGC11
Lims ID: MB 460-504830/1-A
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

10 PCB-1268, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
0.00			
6.38	6.39	1197	0.015041
7.39	7.38	23080	0.066948
7.48	7.50	27644	0.085834
7.81	7.80	267703	0.956179
8.00	8.00	4405	0.056589
8.53	8.54	26036	0.209878
9.13	9.13	786170	0.938901
		Average =	0.332767



Reviewer: patelji, 22-Mar-2018 14:21:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504716/2-A

Matrix: Water | Lab File ID: 7R013927.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 08:35

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	3.98		0.40	0.10
11096-82-5	Aroclor 1260	4.71		0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	8.69		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D
Lims ID: LCS 460-504716/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2018 08:35:11 ALS Bottle#: 29 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:46:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.323	3.323	0.000	47196	20.0	20.0	
2	2.897	2.893	0.004	25117	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.117	5.120	-0.003	210964	100.0	98.2	
2	4.297	4.293	0.004	135749	100.0	92.3	
						RPD = 6.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.127	6.130	-0.003	47472	1000.0	967.9	
1	6.900	6.900	0.000	100450	1000.0	989.1	
1	7.723	7.723	0.000	191277	1000.0	998.6	
1	7.960	7.960	0.000	79453	1000.0	964.4	
1	8.137	8.137	0.000	62707	1000.0	984.6	
1	8.783	8.783	0.000	62134	1000.0	988.7	
1	8.990	8.993	-0.003	69337	1000.0	1066.1	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				994.2	
2	5.023	5.023	0.000	34083	1000.0	900.4	
2	5.677	5.677	0.000	66131	1000.0	899.2	M
2	6.027	6.023	0.004	40852	1000.0	929.0	M
2	6.493	6.490	0.003	134954	1000.0	946.6	M
2	6.723	6.723	0.000	49867	1000.0	872.3	M
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	56419	1000.0	937.7	M
2	8.077	8.077	0.000	31647	1000.0	935.5	M
		Average of Peak Amounts =				917.2	
						RPD = 8.05	
8 PCB-1260							M
1	10.720	10.720	0.000	67861	1000.0	1084.2	
1	11.043	11.047	-0.004	134951	1000.0	1037.6	
1	11.550	11.550	0.000	168945	1000.0	1084.4	
1	12.770	12.773	-0.003	139692	1000.0	1262.1	
1	13.567	13.567	0.000	120147	1000.0	1226.0	
1	14.247	14.247	0.000	268735	1000.0	1220.7	
1	15.080	15.080	0.000	192518	1000.0	1230.5	
1	16.230	16.230	0.000	72991	1000.0	1273.7	
		Average of Peak Amounts =				1177.4	
2	9.467	9.463	0.004	86563	1000.0	955.8	
2	10.380	10.380	0.000	141896	1000.0	983.6	
2	10.597	10.597	0.000	72207	1000.0	1054.4	
2	11.070	11.067	0.003	74637	1000.0	1050.4	M
2	11.793	11.790	0.003	178723	1000.0	1095.5	
2	12.527	12.527	0.000	85811	1000.0	1035.5	
2	12.787	12.787	0.000	51366	1000.0	1242.4	
2	14.230	14.230	0.000	49318	1000.0	1253.9	
		Average of Peak Amounts =				1083.9	
						RPD = 8.27	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	181545	100.0	108.9	
2	15.310	15.310	0.000	182490	100.0	113.4	
						RPD = 4.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

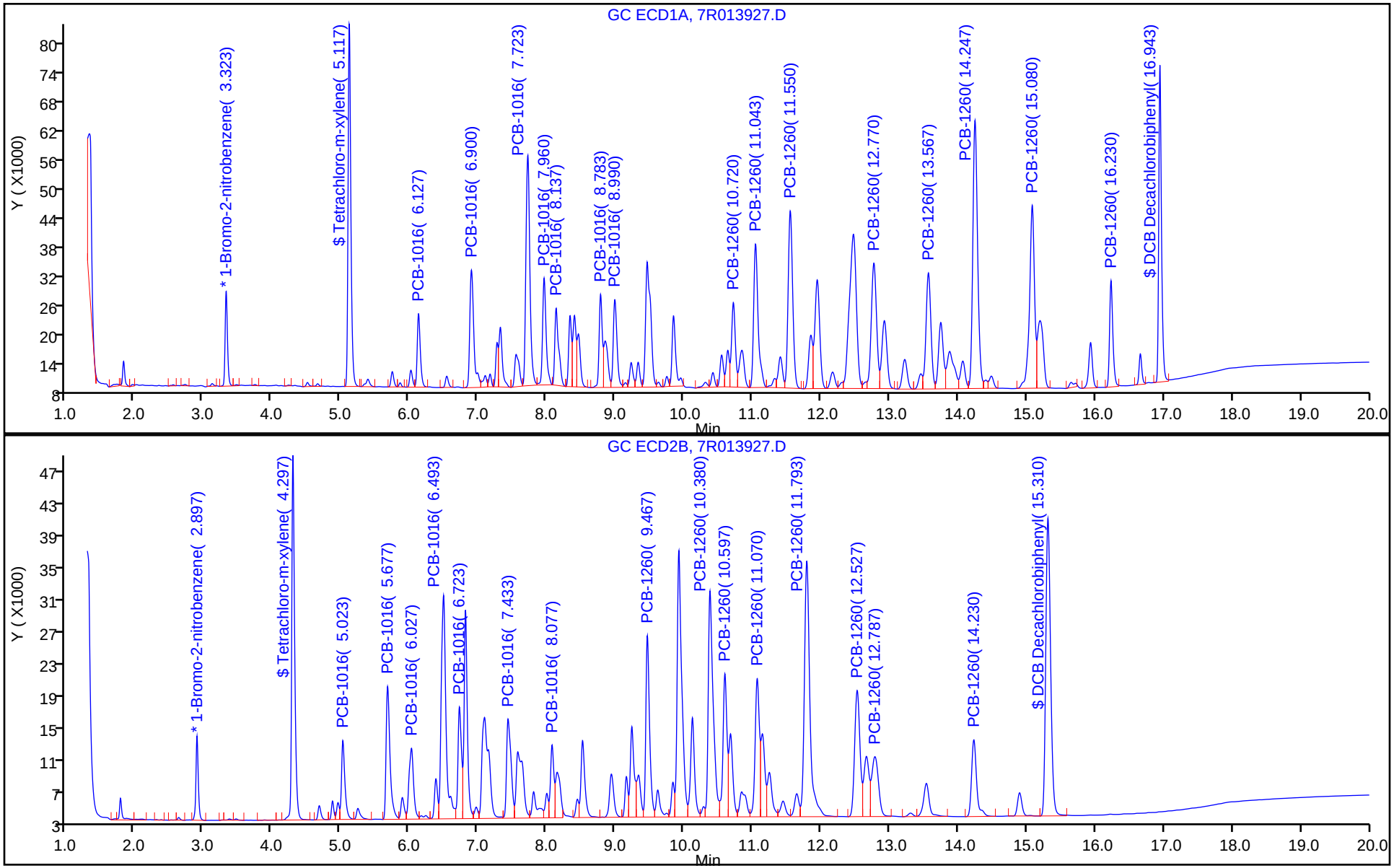
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 12:19:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D

Injection Date:	21-Mar-2018 08:35:11	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	LCS 460-504716/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504716/2-A

Matrix: Water | Lab File ID: 7R013927.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 08:35

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

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 505004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	*Aroclor 1016*	*3.67*		*0.40*	*0.10*
11096-82-5	*Aroclor 1260*	*4.34*		*0.40*	*0.099*
1336-36-3	*Polychlorinated biphenyls, Total*	*8.01*		*0.40*	*0.10*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D
Lims ID: LCS 460-504716/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2018 08:35:11 ALS Bottle#: 29 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:46:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.323	3.323	0.000	47196	20.0	20.0	
2	2.897	2.893	0.004	25117	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.117	5.120	-0.003	210964	100.0	98.2	
2	4.297	4.293	0.004	135749	100.0	92.3	
						RPD = 6.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.127	6.130	-0.003	47472	1000.0	967.9	
1	6.900	6.900	0.000	100450	1000.0	989.1	
1	7.723	7.723	0.000	191277	1000.0	998.6	
1	7.960	7.960	0.000	79453	1000.0	964.4	
1	8.137	8.137	0.000	62707	1000.0	984.6	
1	8.783	8.783	0.000	62134	1000.0	988.7	
1	8.990	8.993	-0.003	69337	1000.0	1066.1	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				994.2	
2	5.023	5.023	0.000	34083	1000.0	900.4	
2	5.677	5.677	0.000	66131	1000.0	899.2	M
2	6.027	6.023	0.004	40852	1000.0	929.0	M
2	6.493	6.490	0.003	134954	1000.0	946.6	M
2	6.723	6.723	0.000	49867	1000.0	872.3	M
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	56419	1000.0	937.7	M
2	8.077	8.077	0.000	31647	1000.0	935.5	M
		Average of Peak Amounts =				917.2	
						RPD = 8.05	
8 PCB-1260							M
1	10.720	10.720	0.000	67861	1000.0	1084.2	
1	11.043	11.047	-0.004	134951	1000.0	1037.6	
1	11.550	11.550	0.000	168945	1000.0	1084.4	
1	12.770	12.773	-0.003	139692	1000.0	1262.1	
1	13.567	13.567	0.000	120147	1000.0	1226.0	
1	14.247	14.247	0.000	268735	1000.0	1220.7	
1	15.080	15.080	0.000	192518	1000.0	1230.5	
1	16.230	16.230	0.000	72991	1000.0	1273.7	
		Average of Peak Amounts =				1177.4	
2	9.467	9.463	0.004	86563	1000.0	955.8	
2	10.380	10.380	0.000	141896	1000.0	983.6	
2	10.597	10.597	0.000	72207	1000.0	1054.4	
2	11.070	11.067	0.003	74637	1000.0	1050.4	M
2	11.793	11.790	0.003	178723	1000.0	1095.5	
2	12.527	12.527	0.000	85811	1000.0	1035.5	
2	12.787	12.787	0.000	51366	1000.0	1242.4	
2	14.230	14.230	0.000	49318	1000.0	1253.9	
		Average of Peak Amounts =				1083.9	
						RPD = 8.27	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	181545	100.0	108.9	
2	15.310	15.310	0.000	182490	100.0	113.4	
						RPD = 4.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

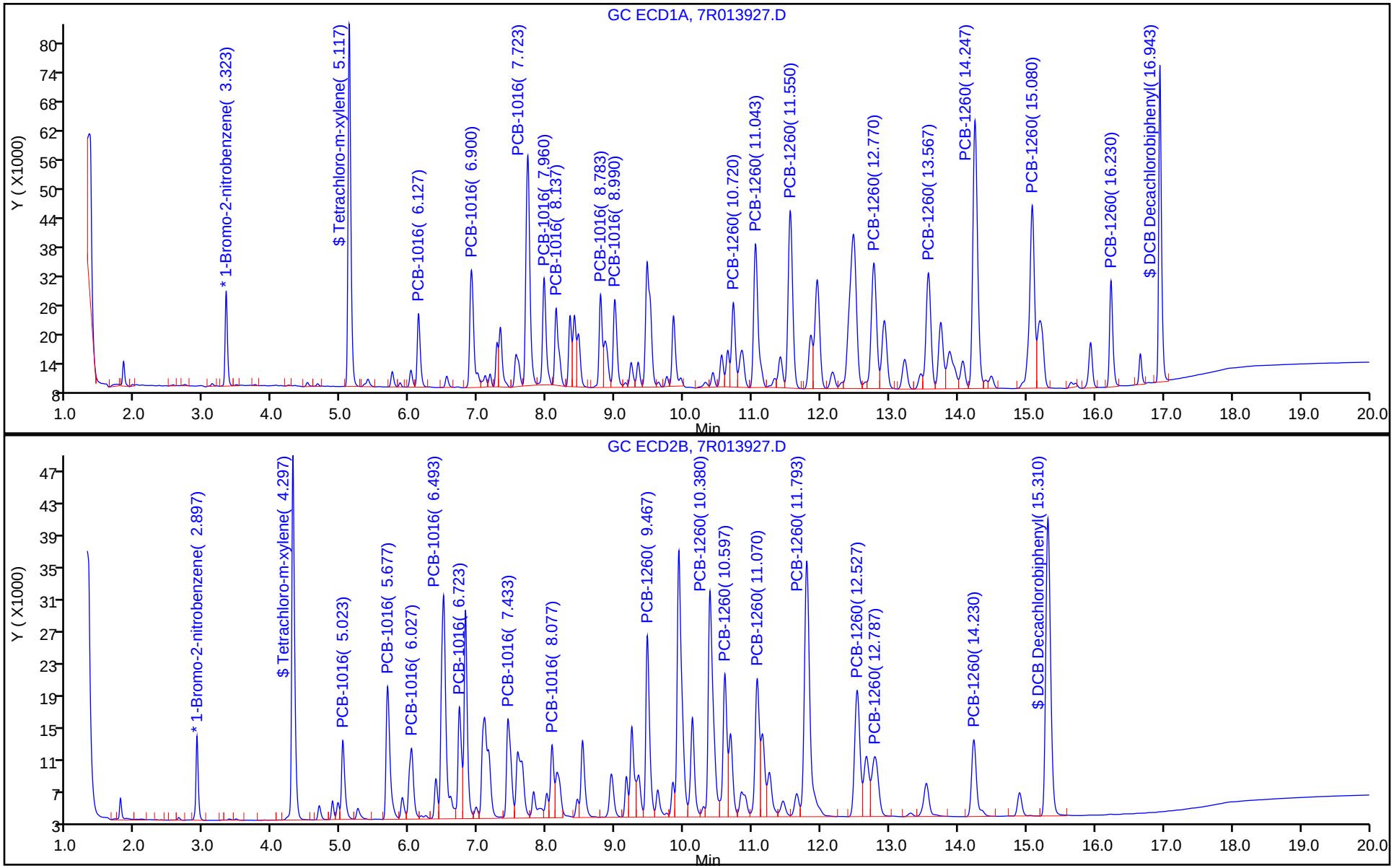
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 12:19:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D

Injection Date:	21-Mar-2018 08:35:11	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	LCS 460-504716/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 21-Mar-2018 12:19:38 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D

Injection Date: 21-Mar-2018 08:35:11 Instrument ID: CPESTGC7

Lims ID: LCS 460-504716/2-A

Client ID:

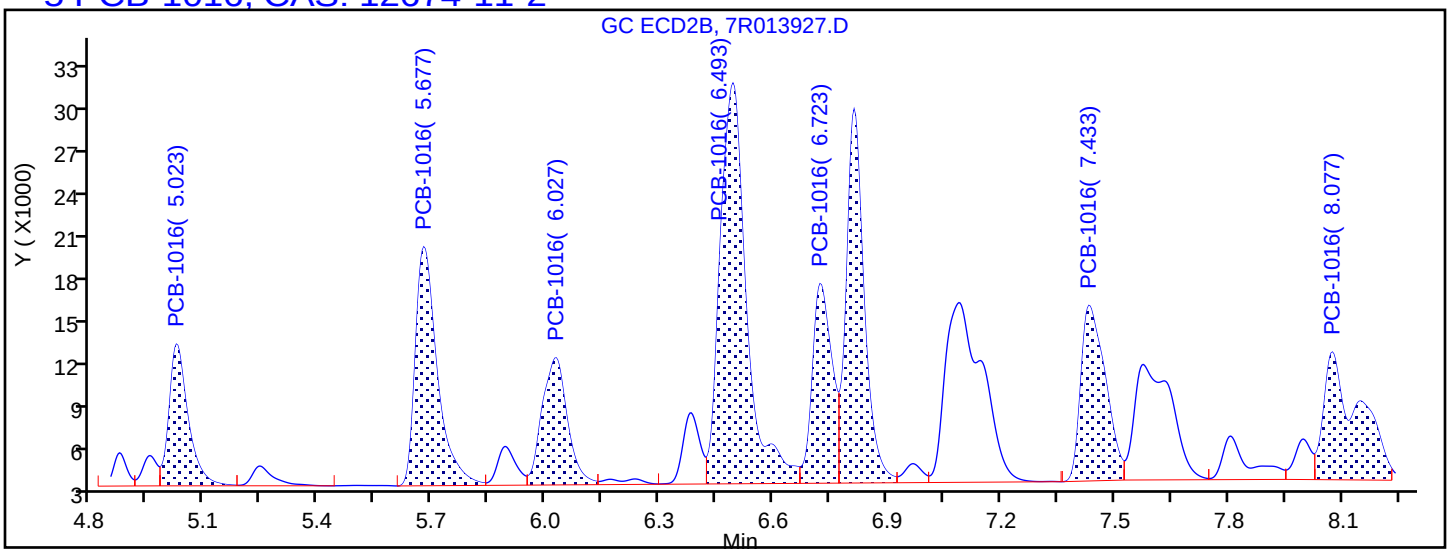
Operator ID: ALS Bottle#: 29 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

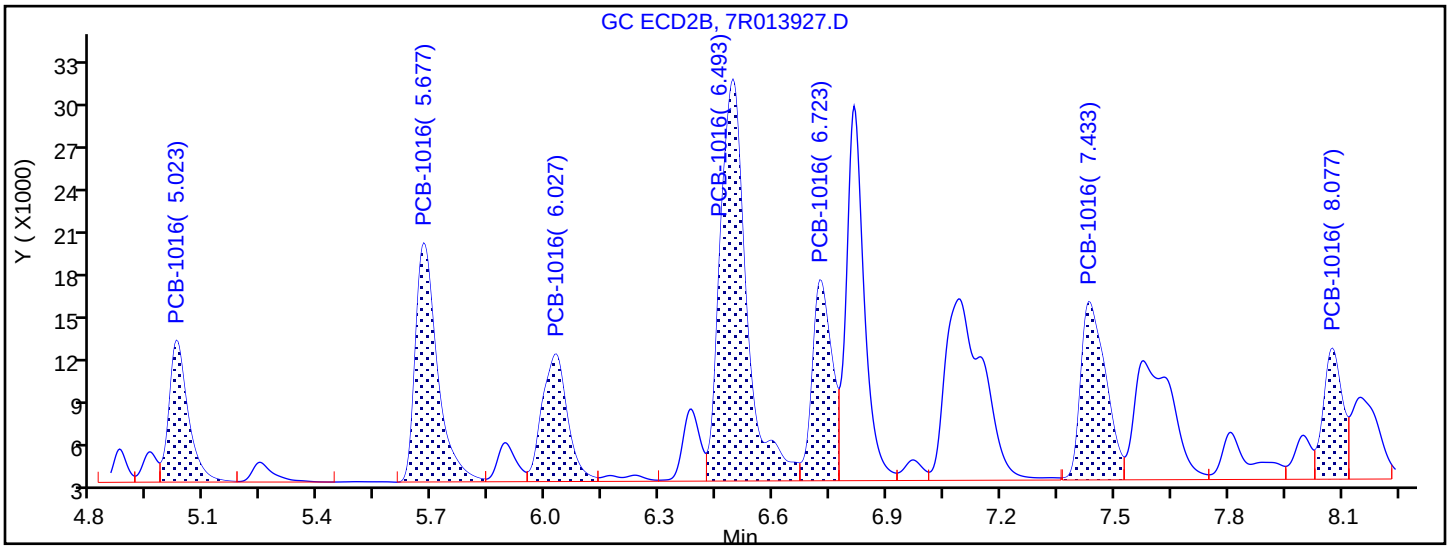
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.023	Response = 34083
5.677	Response = 66131
6.027	Response = 40544
6.493	Response = 133896
6.723	Response = 49328
6.813	Response = 84461
7.433	Response = 54523
8.077	Response = 56910



Manual Integration Results

5.023	Response = 34083	
5.677	Response = 66131	M
6.027	Response = 40852	M
6.493	Response = 134954	M
6.723	Response = 49867	M
6.810	Response = 0	

Report Date: 21-Mar-2018 12:19:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013927.D

Injection Date: 21-Mar-2018 08:35:11 Instrument ID: CPESTGC7

Lims ID: LCS 460-504716/2-A

Client ID:

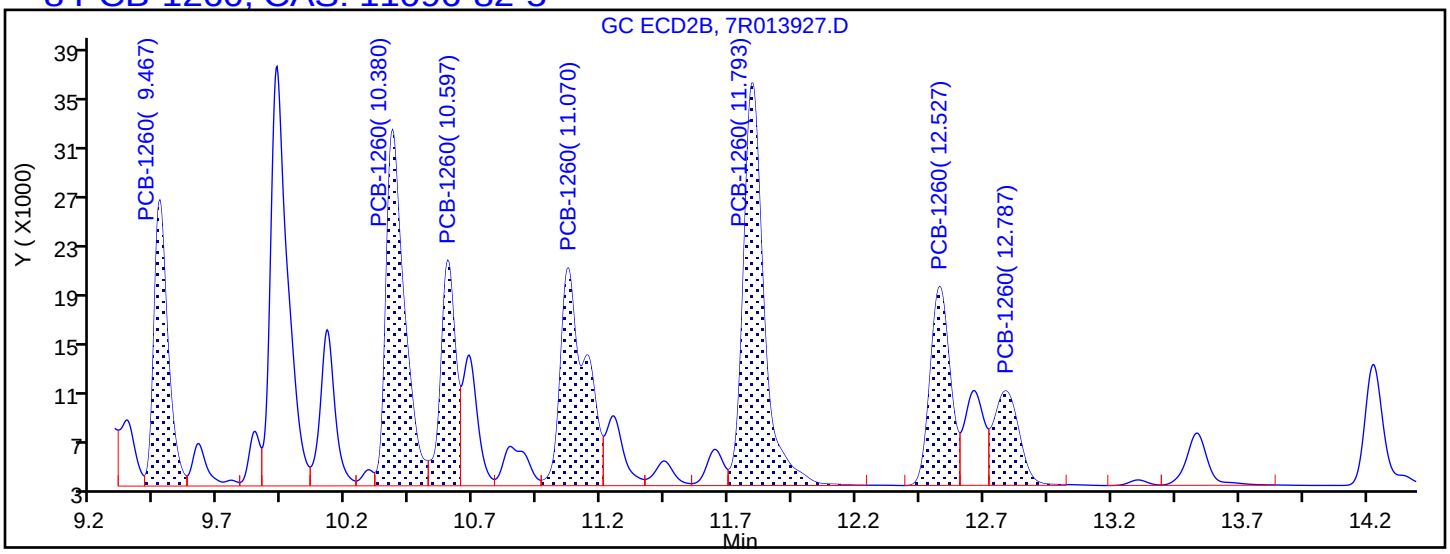
Operator ID: ALS Bottle#: 29 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

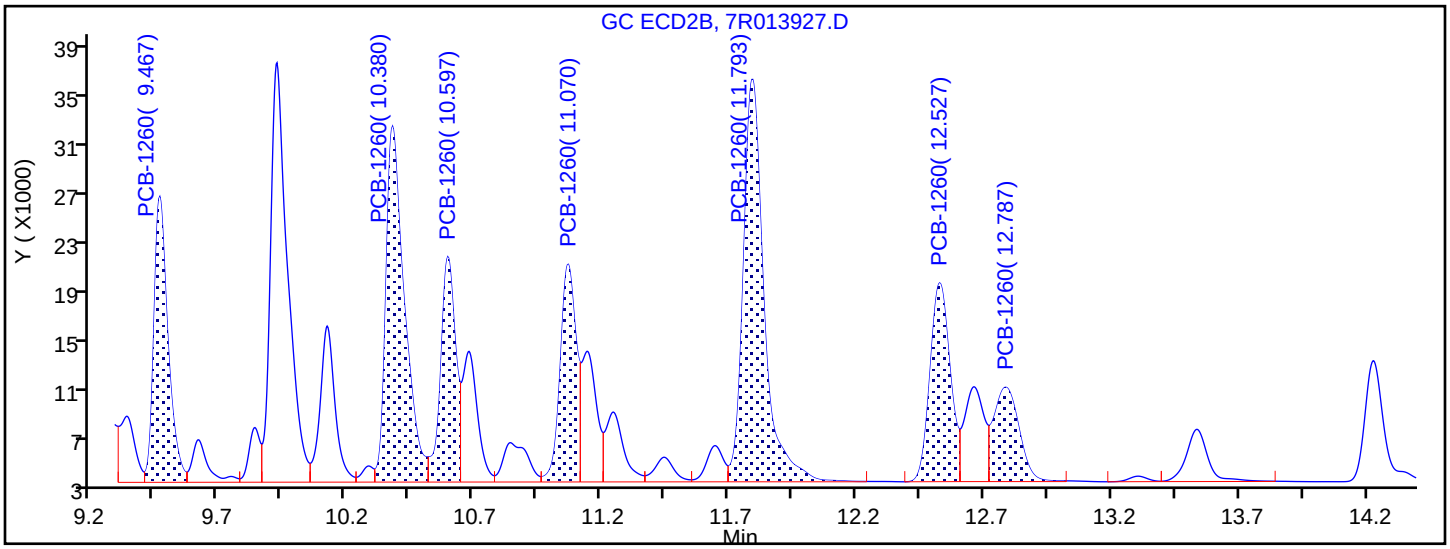
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.467	Response = 86563
10.380	Response = 141896
10.597	Response = 72207
11.070	Response = 117092
11.793	Response = 178723
12.527	Response = 85811
12.787	Response = 51366
14.230	Response = 49318



Manual Integration Results

9.467	Response = 86563
10.380	Response = 141896
10.597	Response = 72207
11.070	Response = 74637
11.793	Response = 178723
12.527	Response = 85811

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504830/2-A

Matrix: Solid | Lab File ID: T142251.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 08:19

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.338		0.067	0.0089
11096-82-5	Aroclor 1260	0.347		0.067	0.0092
1336-36-3	Polychlorinated biphenyls, Total	0.685		0.067	0.0092

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	110		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142251.D
Lims ID: LCS 460-504830/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 08:19:45 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.461	1.461	0.000	33765036	20.0	20.0	
2	1.269	1.269	0.000	53673858	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.352	2.352	0.000	78143037	50.0	52.3	
2	1.891	1.890	0.001	130781256	50.0	54.1	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.931	2.931	0.000	12686594	500.0	507.3	
1	3.419	3.419	0.000	23834308	500.0	503.7	
1	3.974	3.972	0.002	51238244	500.0	465.8	
1	4.136	4.136	0.000	21115185	500.0	491.9	
1	4.258	4.257	0.001	16618418	500.0	579.2	
1	4.712	4.711	0.001	16351859	500.0	486.9	
1	4.861	4.860	0.001	19871035	500.0	515.5	
1	5.230	5.230	0.000	15047473	500.0	510.3	
		Average of Peak Amounts =				507.6	
2	2.258	2.257	0.001	21669290	500.0	482.0	
2	2.626	2.626	0.000	43539849	500.0	495.7	
2	2.837	2.837	0.000	27472353	500.0	474.2	
2	3.126	3.127	-0.001	88466729	500.0	465.3	
2	3.275	3.273	0.002	36503367	500.0	478.5	
2	3.342	3.341	0.001	24066578	500.0	520.0	
2	3.738	3.737	0.001	37367270	500.0	471.3	
2	4.175	4.174	0.001	19864665	500.0	479.1	
		Average of Peak Amounts =				483.3	
						RPD = 4.90	
8 PCB-1260							
1	6.149	6.149	0.000	15121215	500.0	512.9	
1	6.385	6.382	0.003	34133272	500.0	496.6	
1	6.734	6.732	0.002	40042784	500.0	486.9	
1	7.507	7.506	0.001	30268722	500.0	538.8	
1	8.056	8.055	0.001	29915564	500.0	504.1	
1	8.602	8.602	0.000	77930855	500.0	527.9	
1	0.000	9.392	0.000	0	500.0	0	
1	10.235	10.229	0.006	21949012	500.0	576.0	
		Average of Peak Amounts =				520.5	
2	5.159	5.157	0.002	52017661	500.0	453.4	
2	5.844	5.841	0.003	89625948	500.0	428.7	
2	6.005	6.002	0.003	48727006	500.0	481.4	
2	6.346	6.344	0.002	49157294	500.0	443.5	
2	6.836	6.836	0.000	124651990	500.0	523.0	
2	7.299	7.297	0.002	57462788	500.0	431.0	
2	7.456	7.452	0.004	37329022	500.0	596.0	
2	8.511	8.509	0.002	31531039	500.0	502.5	
		Average of Peak Amounts =				482.4	
						RPD = 7.59	
$ 11 DCB Decachlorobiphenyl							
1	10.810	10.798	0.012	75618170	50.0	55.1	
2	9.523	9.521	0.002	123179334	50.0	59.0	
						RPD = 6.92	

Reagents:

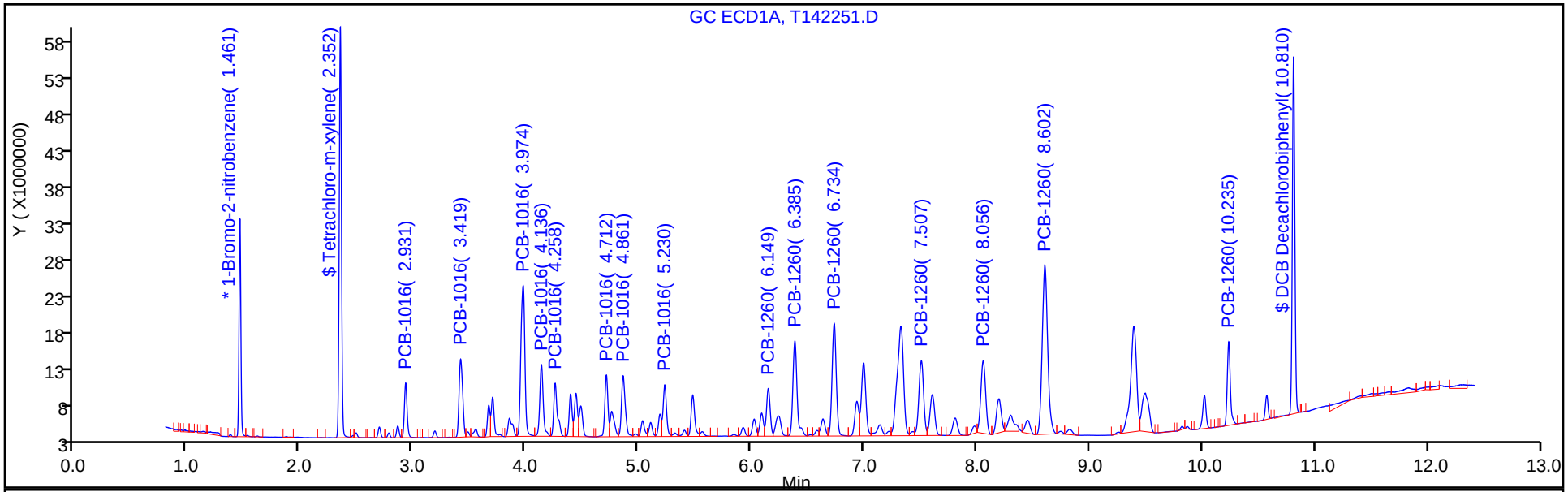
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

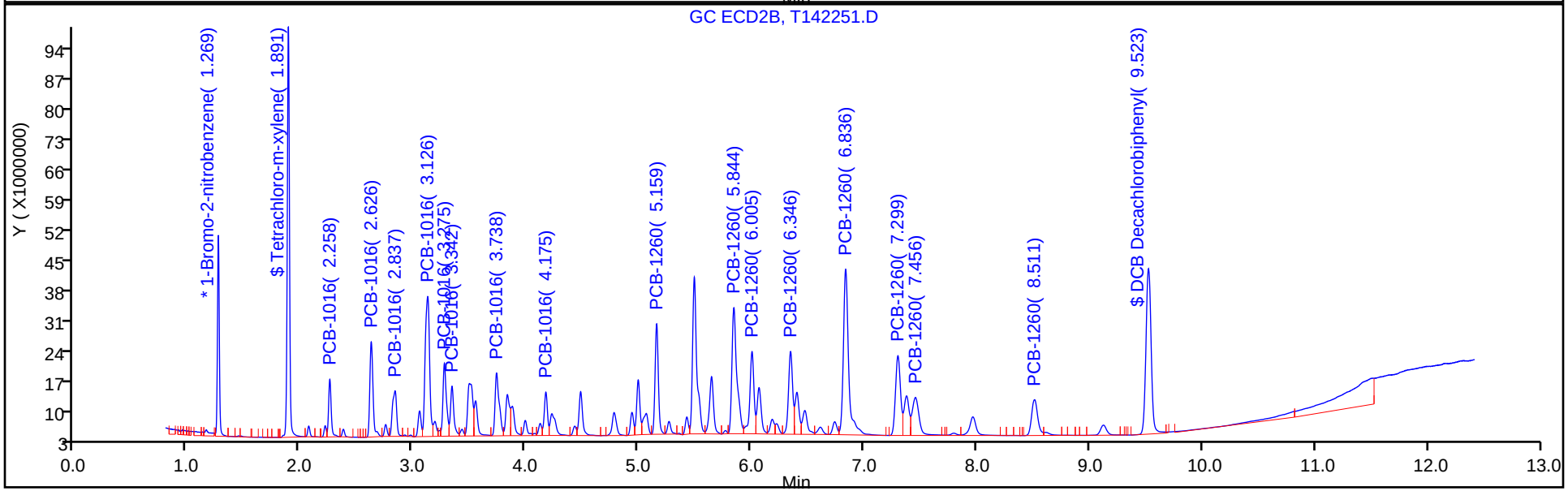
Report Date: 22-Mar-2018 15:07:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142251.D

Injection Date:	22-Mar-2018 08:19:45	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	LCS 460-504830/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-504830/2-A

Matrix: Solid | Lab File ID: T142251.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0000(g) | Date Analyzed: 03/22/2018 08:19

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	*Aroclor 1016*	*0.322*		*0.067*	*0.0089*
11096-82-5	*Aroclor 1260*	*0.322*		*0.067*	*0.0092*
1336-36-3	*Polychlorinated biphenyls, Total*	*0.644*		*0.067*	*0.0092*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	118		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142251.D
Lims ID: LCS 460-504830/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Mar-2018 08:19:45 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	1.461	1.461	0.000	33765036	20.0	20.0	
2	1.269	1.269	0.000	53673858	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.352	2.352	0.000	78143037	50.0	52.3	
2	1.891	1.890	0.001	130781256	50.0	54.1	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.931	2.931	0.000	12686594	500.0	507.3	
1	3.419	3.419	0.000	23834308	500.0	503.7	
1	3.974	3.972	0.002	51238244	500.0	465.8	
1	4.136	4.136	0.000	21115185	500.0	491.9	
1	4.258	4.257	0.001	16618418	500.0	579.2	
1	4.712	4.711	0.001	16351859	500.0	486.9	
1	4.861	4.860	0.001	19871035	500.0	515.5	
1	5.230	5.230	0.000	15047473	500.0	510.3	
		Average of Peak Amounts =				507.6	
2	2.258	2.257	0.001	21669290	500.0	482.0	
2	2.626	2.626	0.000	43539849	500.0	495.7	
2	2.837	2.837	0.000	27472353	500.0	474.2	
2	3.126	3.127	-0.001	88466729	500.0	465.3	
2	3.275	3.273	0.002	36503367	500.0	478.5	
2	3.342	3.341	0.001	24066578	500.0	520.0	
2	3.738	3.737	0.001	37367270	500.0	471.3	
2	4.175	4.174	0.001	19864665	500.0	479.1	
		Average of Peak Amounts =				483.3	
						RPD = 4.90	
8 PCB-1260							
1	6.149	6.149	0.000	15121215	500.0	512.9	
1	6.385	6.382	0.003	34133272	500.0	496.6	
1	6.734	6.732	0.002	40042784	500.0	486.9	
1	7.507	7.506	0.001	30268722	500.0	538.8	
1	8.056	8.055	0.001	29915564	500.0	504.1	
1	8.602	8.602	0.000	77930855	500.0	527.9	
1	0.000	9.392	0.000	0	500.0	0	
1	10.235	10.229	0.006	21949012	500.0	576.0	
		Average of Peak Amounts =				520.5	
2	5.159	5.157	0.002	52017661	500.0	453.4	
2	5.844	5.841	0.003	89625948	500.0	428.7	
2	6.005	6.002	0.003	48727006	500.0	481.4	
2	6.346	6.344	0.002	49157294	500.0	443.5	
2	6.836	6.836	0.000	124651990	500.0	523.0	
2	7.299	7.297	0.002	57462788	500.0	431.0	
2	7.456	7.452	0.004	37329022	500.0	596.0	
2	8.511	8.509	0.002	31531039	500.0	502.5	
		Average of Peak Amounts =				482.4	
						RPD = 7.59	
$ 11 DCB Decachlorobiphenyl							
1	10.810	10.798	0.012	75618170	50.0	55.1	
2	9.523	9.521	0.002	123179334	50.0	59.0	
						RPD = 6.92	

Reagents:

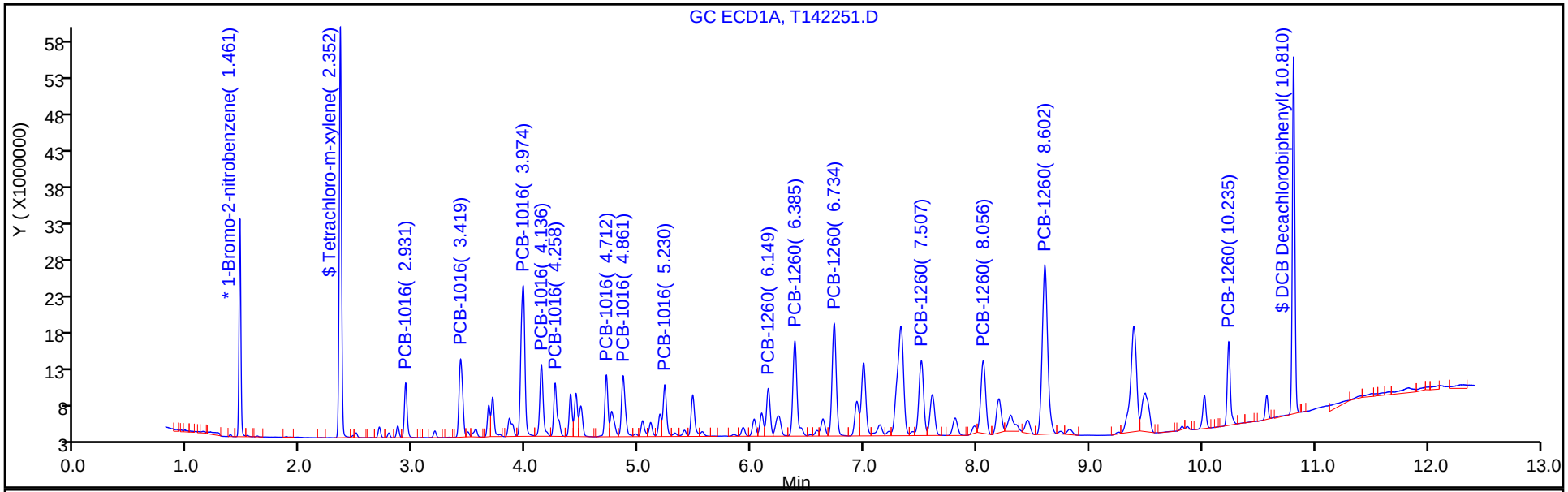
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

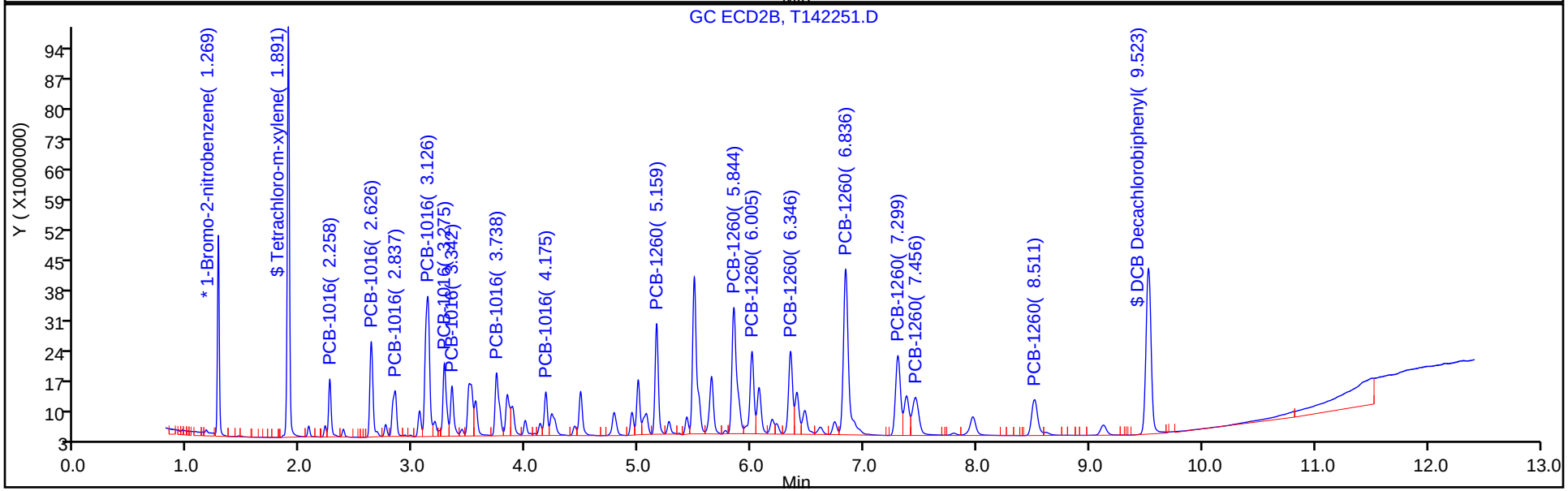
Report Date: 22-Mar-2018 15:07:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142251.D

Injection Date:	22-Mar-2018 08:19:45	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	LCS 460-504830/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504716/3-A

Matrix: Water | Lab File ID: 7R013928.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 08:58

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 505004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	3.96		0.40	0.10
11096-82-5	Aroclor 1260	4.69		0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	8.65		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	108		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D
Lims ID: LCSD 460-504716/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Mar-2018 08:58:44 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069081-005
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:46:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.320	3.323	-0.003	46056	20.0	20.0	
2	2.897	2.893	0.004	24324	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.117	5.120	-0.003	203166	100.0	97.0	
2	4.297	4.293	0.004	129655	100.0	91.0	
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.127	6.130	-0.003	45941	1000.0	959.9	
1	6.897	6.900	-0.003	96969	1000.0	978.5	
1	7.720	7.723	-0.003	187099	1000.0	1000.9	
1	7.960	7.960	0.000	77054	1000.0	958.4	
1	8.133	8.137	-0.004	61347	1000.0	987.1	
1	8.783	8.783	0.000	59677	1000.0	973.1	
1	8.990	8.993	-0.003	67659	1000.0	1066.1	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				989.1	
2	5.023	5.023	0.000	32857	1000.0	896.3	
2	5.677	5.677	0.000	64369	1000.0	903.7	M
2	6.023	6.023	0.000	39626	1000.0	930.5	M
2	6.493	6.490	0.003	131158	1000.0	949.9	M
2	6.723	6.723	0.000	47833	1000.0	864.0	M
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	54945	1000.0	943.0	M
2	8.077	8.077	0.000	30718	1000.0	937.6	M
		Average of Peak Amounts =				917.9	
						RPD = 7.47	
8 PCB-1260							M
1	10.720	10.720	0.000	66329	1000.0	1086.0	
1	11.043	11.047	-0.004	132370	1000.0	1043.0	
1	11.550	11.550	0.000	164907	1000.0	1084.7	
1	12.770	12.773	-0.003	133755	1000.0	1238.3	
1	13.567	13.567	0.000	116617	1000.0	1219.4	
1	14.243	14.247	-0.004	261360	1000.0	1216.6	
1	15.080	15.080	0.000	185959	1000.0	1218.0	
1	16.230	16.230	0.000	70751	1000.0	1265.1	
		Average of Peak Amounts =				1171.4	
2	9.467	9.463	0.004	84668	1000.0	965.4	
2	10.380	10.380	0.000	139157	1000.0	996.1	
2	10.597	10.597	0.000	71692	1000.0	1081.0	
2	11.067	11.067	0.000	73087	1000.0	1062.1	M
2	11.793	11.790	0.003	172362	1000.0	1091.0	
2	12.527	12.527	0.000	82520	1000.0	1028.3	
2	12.787	12.787	0.000	49877	1000.0	1245.7	
2	14.227	14.230	-0.003	47650	1000.0	1251.0	
		Average of Peak Amounts =				1090.1	
						RPD = 7.19	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	175375	100.0	107.8	
2	15.310	15.310	0.000	176574	100.0	113.3	
						RPD = 4.95	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

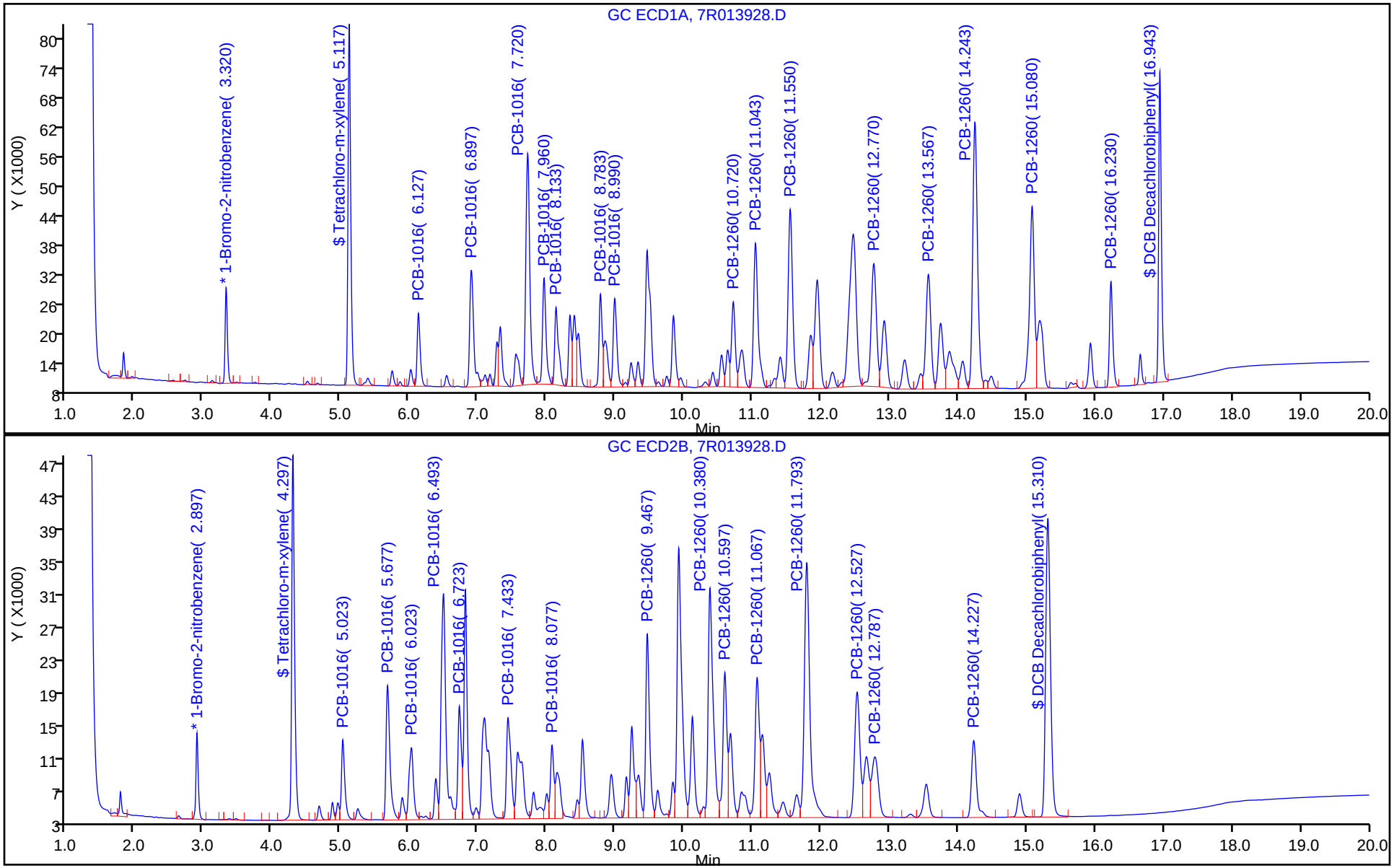
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 12:19:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D

Injection Date:	21-Mar-2018 08:58:44	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	LCSD 460-504716/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-504716/3-A

Matrix: Water | Lab File ID: 7R013928.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 03/20/2018 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 03/21/2018 08:58

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

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 505004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	*Aroclor 1016*	*3.67*		*0.40*	*0.10*
11096-82-5	*Aroclor 1260*	*4.36*		*0.40*	*0.099*
1336-36-3	*Polychlorinated biphenyls, Total*	*8.03*		*0.40*	*0.10*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D
Lims ID: LCSD 460-504716/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Mar-2018 08:58:44 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069081-005
Operator ID: Instrument ID: CPESTGC7

Method: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 21-Mar-2018 12:19:31 Calib Date: 27-Dec-2017 16:59:50
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20171227-65501.b\7R011800.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK004

First Level Reviewer: patelji Date: 21-Mar-2018 10:46:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							
1	3.320	3.323	-0.003	46056	20.0	20.0	
2	2.897	2.893	0.004	24324	20.0	20.0	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	5.117	5.120	-0.003	203166	100.0	97.0	
2	4.297	4.293	0.004	129655	100.0	91.0	
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							M
1	6.127	6.130	-0.003	45941	1000.0	959.9	
1	6.897	6.900	-0.003	96969	1000.0	978.5	
1	7.720	7.723	-0.003	187099	1000.0	1000.9	
1	7.960	7.960	0.000	77054	1000.0	958.4	
1	8.133	8.137	-0.004	61347	1000.0	987.1	
1	8.783	8.783	0.000	59677	1000.0	973.1	
1	8.990	8.993	-0.003	67659	1000.0	1066.1	
1	0.000	9.467	0.000	0	1000.0	0	
		Average of Peak Amounts =				989.1	
2	5.023	5.023	0.000	32857	1000.0	896.3	
2	5.677	5.677	0.000	64369	1000.0	903.7	M
2	6.023	6.023	0.000	39626	1000.0	930.5	M
2	6.493	6.490	0.003	131158	1000.0	949.9	M
2	6.723	6.723	0.000	47833	1000.0	864.0	M
2	0.000	6.810	0.000	0	1000.0	0	
2	7.433	7.433	0.000	54945	1000.0	943.0	M
2	8.077	8.077	0.000	30718	1000.0	937.6	M
		Average of Peak Amounts =				917.9	
						RPD = 7.47	
8 PCB-1260							M
1	10.720	10.720	0.000	66329	1000.0	1086.0	
1	11.043	11.047	-0.004	132370	1000.0	1043.0	
1	11.550	11.550	0.000	164907	1000.0	1084.7	
1	12.770	12.773	-0.003	133755	1000.0	1238.3	
1	13.567	13.567	0.000	116617	1000.0	1219.4	
1	14.243	14.247	-0.004	261360	1000.0	1216.6	
1	15.080	15.080	0.000	185959	1000.0	1218.0	
1	16.230	16.230	0.000	70751	1000.0	1265.1	
		Average of Peak Amounts =				1171.4	
2	9.467	9.463	0.004	84668	1000.0	965.4	
2	10.380	10.380	0.000	139157	1000.0	996.1	
2	10.597	10.597	0.000	71692	1000.0	1081.0	
2	11.067	11.067	0.000	73087	1000.0	1062.1	M
2	11.793	11.790	0.003	172362	1000.0	1091.0	
2	12.527	12.527	0.000	82520	1000.0	1028.3	
2	12.787	12.787	0.000	49877	1000.0	1245.7	
2	14.227	14.230	-0.003	47650	1000.0	1251.0	
		Average of Peak Amounts =				1090.1	
						RPD = 7.19	
$ 11 DCB Decachlorobiphenyl							
1	16.943	16.943	0.000	175375	100.0	107.8	
2	15.310	15.310	0.000	176574	100.0	113.3	
						RPD = 4.95	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

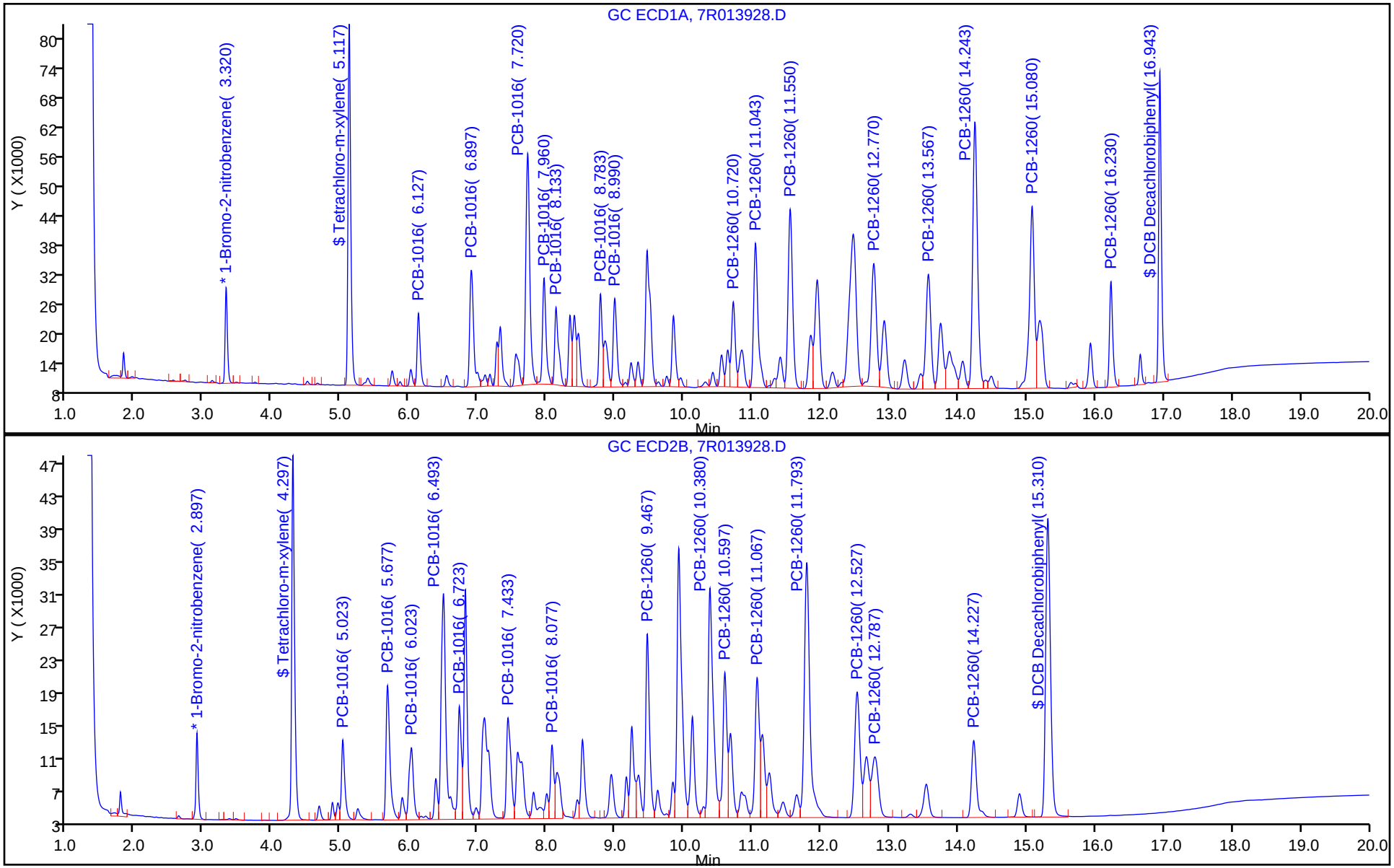
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 21-Mar-2018 12:19:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D

Injection Date:	21-Mar-2018 08:58:44	Instrument ID:	CPESTGC7	Operator ID:	
Lims ID:	LCSD 460-504716/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8082.ISTD	Limit Group:	GC 8082A PCB ISTD		



Report Date: 21-Mar-2018 12:19:41 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D

Injection Date: 21-Mar-2018 08:58:44 Instrument ID: CPESTGC7

Lims ID: LCSD 460-504716/3-A

Client ID:

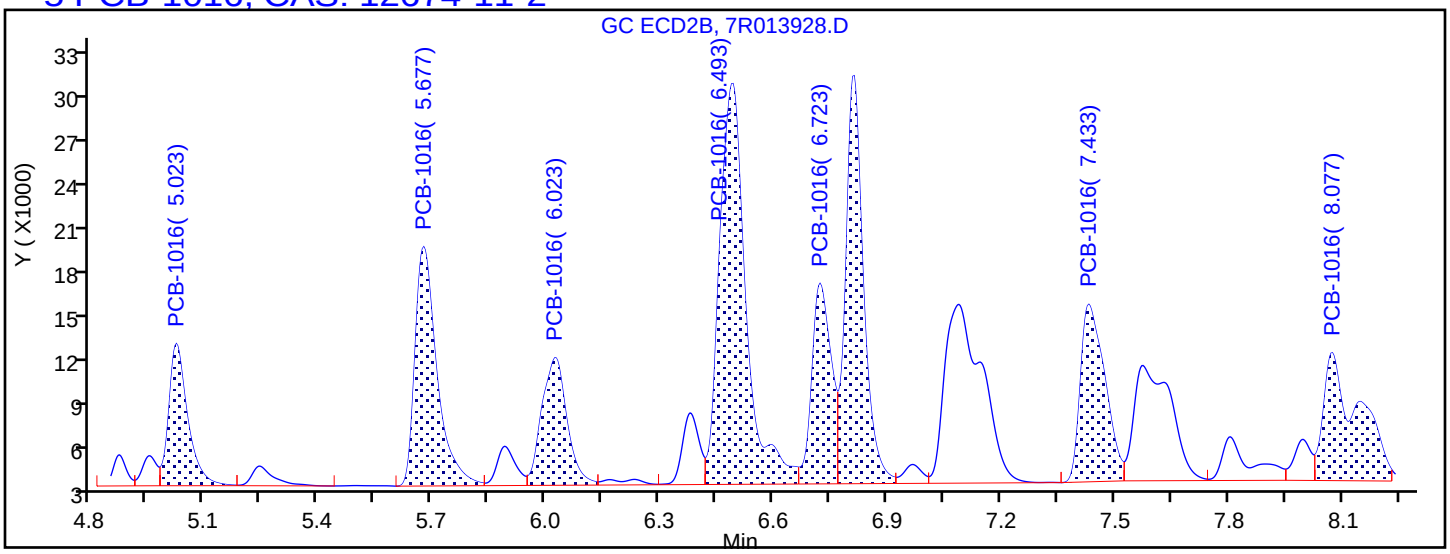
Operator ID: ALS Bottle#: 30 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

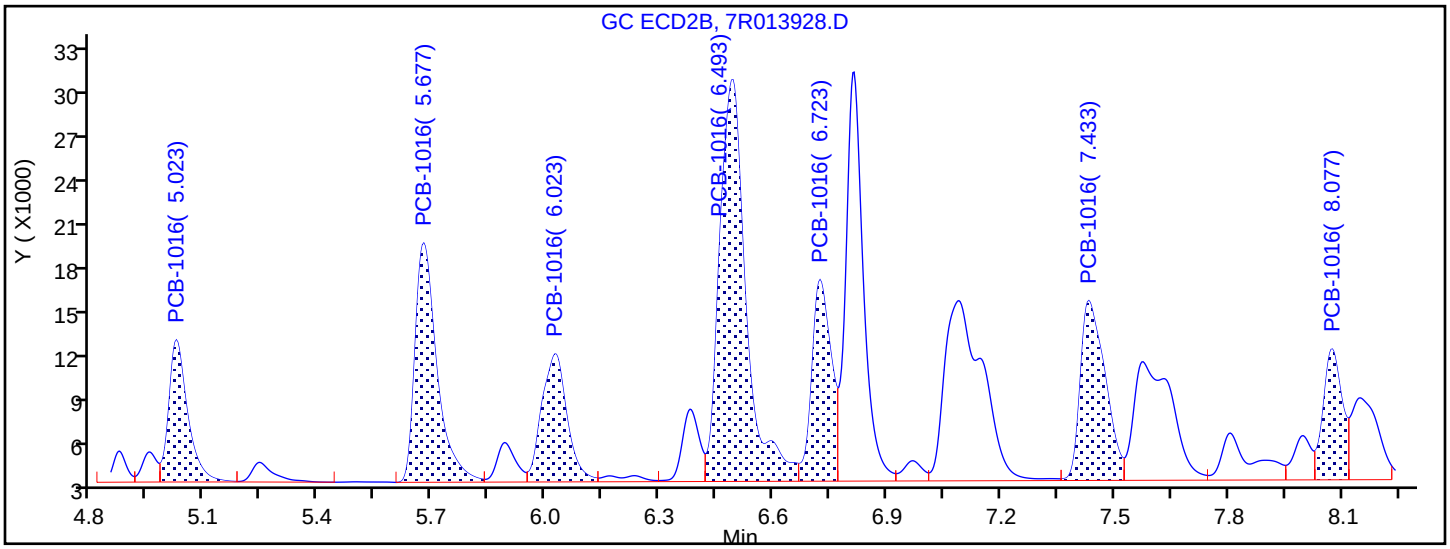
Column: Detector GC ECD2B

5 PCB-1016, CAS: 12674-11-2



Processing Integration Results

5.023	Response = 32857
5.677	Response = 64306
6.023	Response = 39335
6.493	Response = 130285
6.723	Response = 47395
6.813	Response = 89166
7.433	Response = 53280
8.077	Response = 55303



Manual Integration Results

5.023	Response = 32857	
5.677	Response = 64369	M
6.023	Response = 39626	M
6.493	Response = 131158	M
6.723	Response = 47833	M
6.810	Response = 0	

Report Date: 21-Mar-2018 12:19:41 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20180321-69081.b\7R013928.D

Injection Date: 21-Mar-2018 08:58:44 Instrument ID: CPESTGC7

Lims ID: LCSD 460-504716/3-A

Client ID:

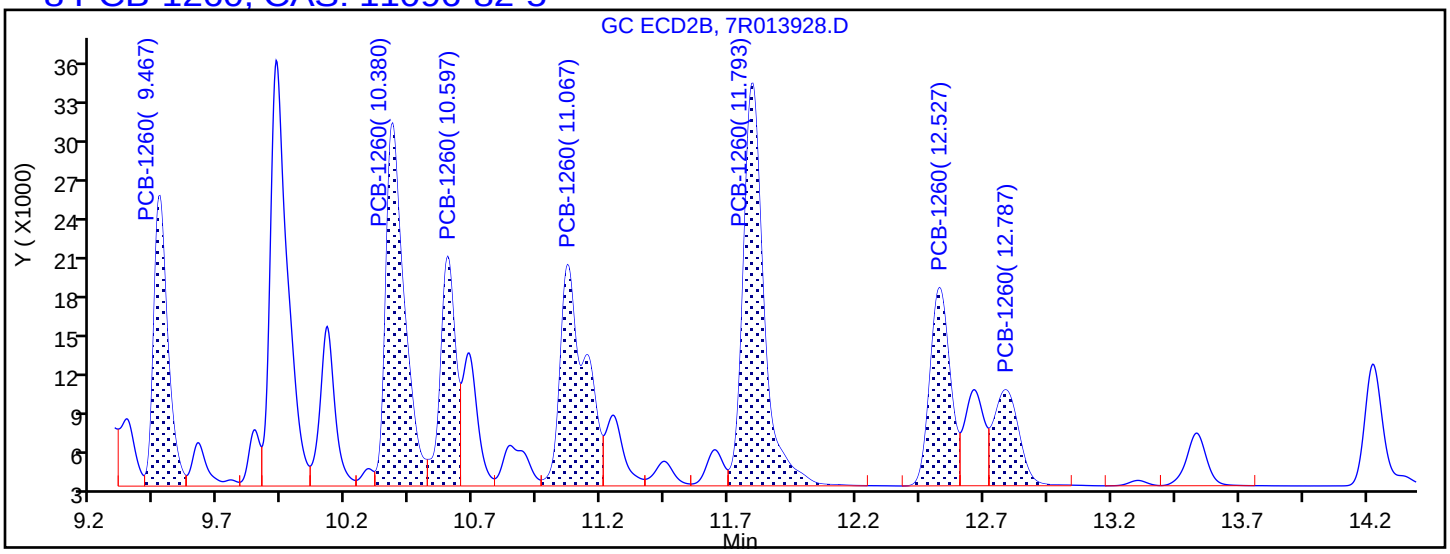
Operator ID: ALS Bottle#: 30 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8082.ISTD Limit Group: GC 8082A PCB ISTD

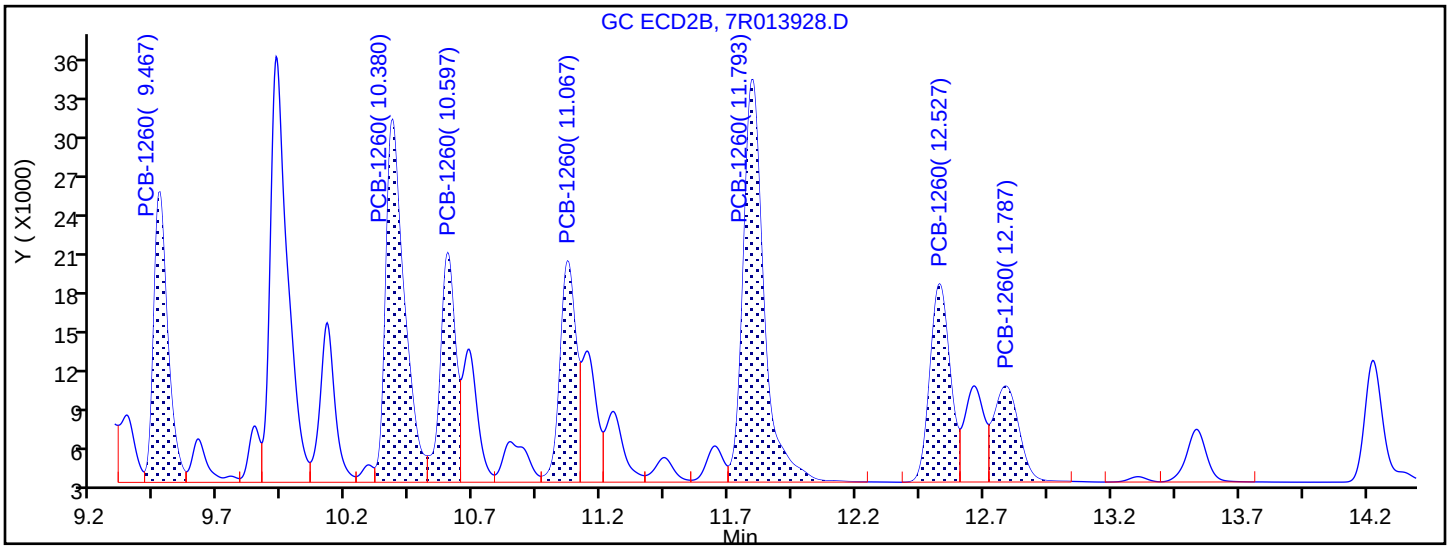
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

9.467	Response = 84668
10.380	Response = 139157
10.597	Response = 71692
11.067	Response = 113882
11.793	Response = 172362
12.527	Response = 82520
12.787	Response = 49877
14.227	Response = 47650



Manual Integration Results

9.467	Response = 84668
10.380	Response = 139157
10.597	Response = 71692
11.067	Response = 73087
11.793	Response = 172362
12.527	Response = 82520

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-D MS

Matrix: Solid | Lab File ID: T142252.D

Analysis Method: 8082A | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0125(g) | Date Analyzed: 03/22/2018 08:35

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	*Aroclor 1016*	*0.356*		*0.074*	*0.0099*
11104-28-2	*Aroclor 1221*	*0.0099*	*U*	*0.074*	*0.0099*
11141-16-5	*Aroclor 1232*	*0.0099*	*U*	*0.074*	*0.0099*
53469-21-9	*Aroclor 1242*	*0.0099*	*U*	*0.074*	*0.0099*
12672-29-6	*Aroclor 1248*	*0.0099*	*U*	*0.074*	*0.0099*
11097-69-1	*Aroclor 1254*	*0.010*	*U*	*0.074*	*0.010*
11096-82-5	Aroclor 1260	0.356		0.074	0.010
11100-14-4	*Aroclor 1268*	*0.010*	*U*	*0.074*	*0.010*
37324-23-5	*Aroclor-1262*	*0.010*	*U*	*0.074*	*0.010*
1336-36-3	*Polychlorinated biphenyls, Total*	*0.712*		*0.074*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	97		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Lims ID: 460-152046-E-4-D MS
Client ID:
Sample Type: MS
Inject. Date: 22-Mar-2018 08:35:25 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.462	1.461	0.001	36275581	20.0	20.0	
2	1.270	1.269	0.001	57585701	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.351	2.352	-0.001	73248595	50.0	45.6	
2	1.891	1.890	0.001	110449727	50.0	42.6	
						RPD = 6.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.929	2.931	-0.002	12957905	500.0	482.3	
1	3.418	3.419	-0.001	24311829	500.0	478.2	
1	3.971	3.972	-0.001	52109322	500.0	440.9	
1	4.133	4.136	-0.003	21702758	500.0	470.6	
1	4.255	4.257	-0.002	16879465	500.0	547.6	
1	4.710	4.711	-0.001	16552177	500.0	458.8	
1	4.858	4.860	-0.002	19639291	500.0	474.3	
1	5.228	5.230	-0.002	15788710	500.0	498.4	
		Average of Peak Amounts =				481.4	
2	2.258	2.257	0.001	20174308	500.0	418.3	
2	2.625	2.626	-0.001	42496941	500.0	451.0	
2	2.837	2.837	0.000	27046327	500.0	435.1	
2	3.127	3.127	0.000	86320366	500.0	423.2	
2	3.274	3.273	0.001	35750666	500.0	436.8	
2	3.368	3.341	0.027	52270857	500.0	1052.6	
2	3.738	3.737	0.001	37031633	500.0	435.4	
2	4.174	4.174	0.000	20108014	500.0	452.0	
		Average of Peak Amounts =				513.0	
						RPD = 6.37	
8 PCB-1260							
1	6.147	6.149	-0.002	14336988	500.0	452.7	
1	6.382	6.382	0.000	32846035	500.0	444.8	
1	6.729	6.732	-0.003	39692670	500.0	449.2	
1	7.503	7.506	-0.003	30193267	500.0	500.2	
1	8.052	8.055	-0.003	31425779	500.0	492.9	
1	8.598	8.602	-0.004	79102509	500.0	498.7	
1	0.000	9.392	0.000	0	500.0	0	
1	10.229	10.229	0.000	21999194	500.0	537.4	
		Average of Peak Amounts =				482.3	
2	5.158	5.157	0.001	53798253	500.0	437.0	
2	5.841	5.841	0.000	94760814	500.0	422.5	
2	6.003	6.002	0.001	51353860	500.0	472.8	
2	6.345	6.344	0.001	52409060	500.0	440.7	
2	6.833	6.836	-0.003	129405627	500.0	506.1	
2	7.297	7.297	0.000	59001262	500.0	412.4	
2	7.453	7.452	0.001	37600814	500.0	559.5	
2	8.508	8.509	-0.001	31786679	500.0	472.1	
		Average of Peak Amounts =				465.4	
						RPD = 3.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	10.804	10.798	0.006	71433388	50.0	48.4	
2	9.518	9.521	-0.003	114096075	50.0	51.0	
						RPD = 5.09	
S 12 Polychlorinated biphenyls, Total							
1						963.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

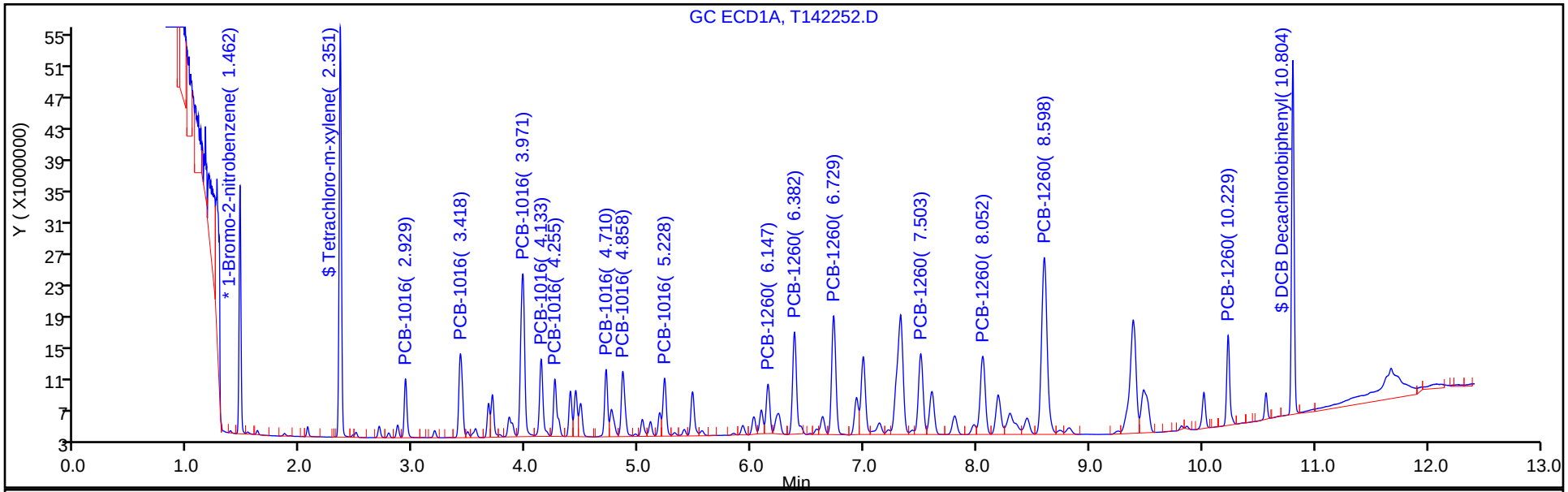
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

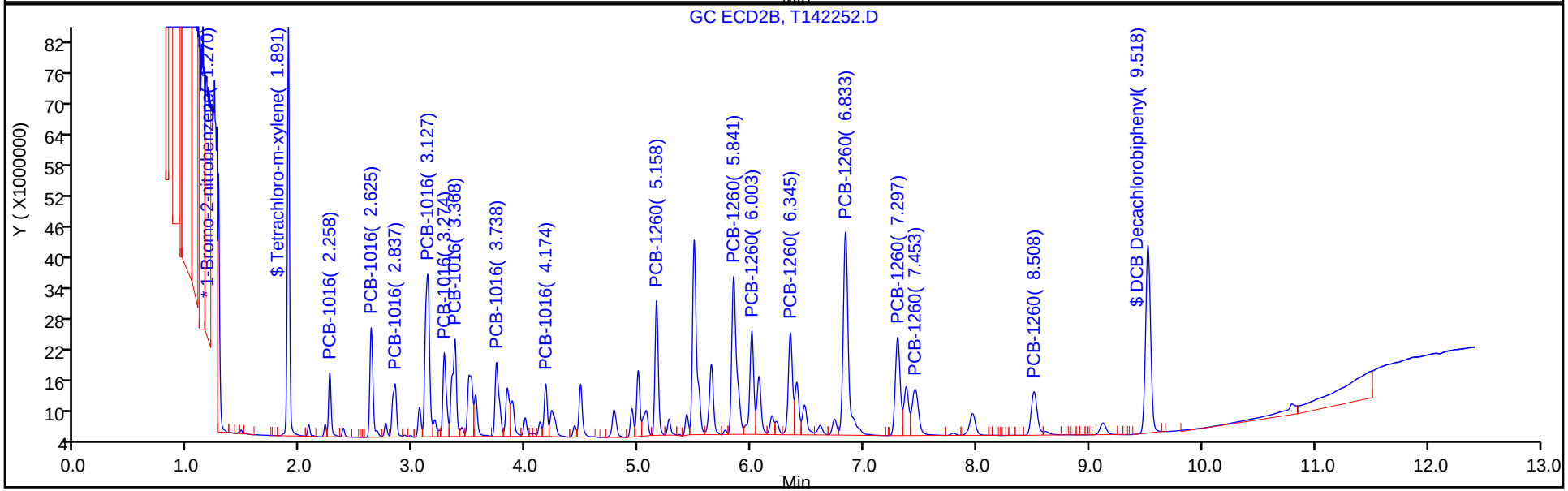
Report Date: 22-Mar-2018 15:07:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D

Injection Date:	22-Mar-2018 08:35:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152046-E-4-D MS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

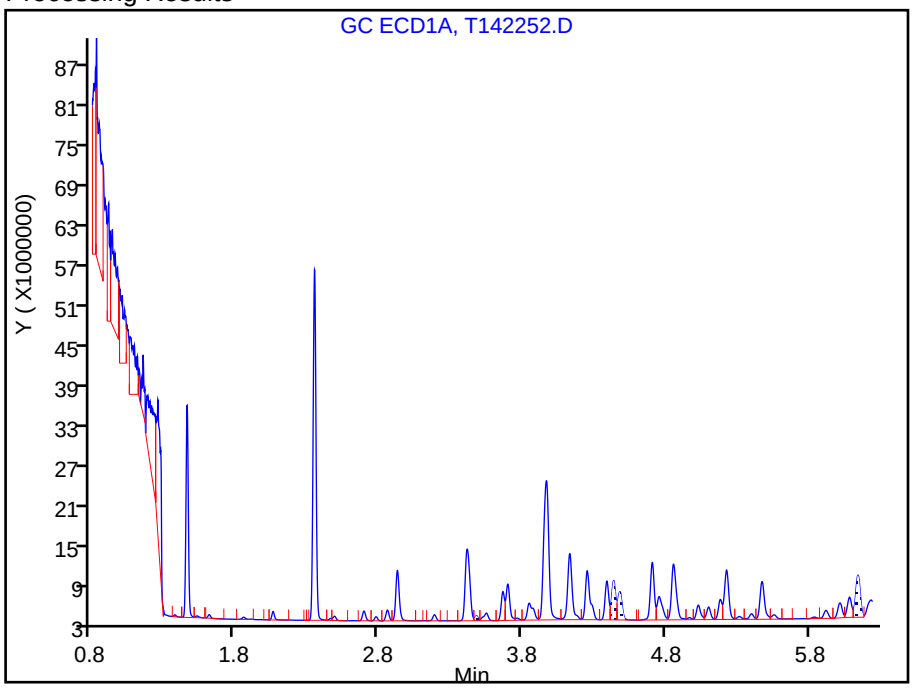
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Injection Date: 22-Mar-2018 08:35:25 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-D MS
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47	3.48	1301670	56.842573
4.03			
4.42	4.44	11700068	340.0352
4.48	4.48	8862347	286.4222
4.90			
0.00			
5.27			
6.12	6.15	14336988	441.6337
		Average =	157.2424



Reviewer: patelji, 22-Mar-2018 14:22:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

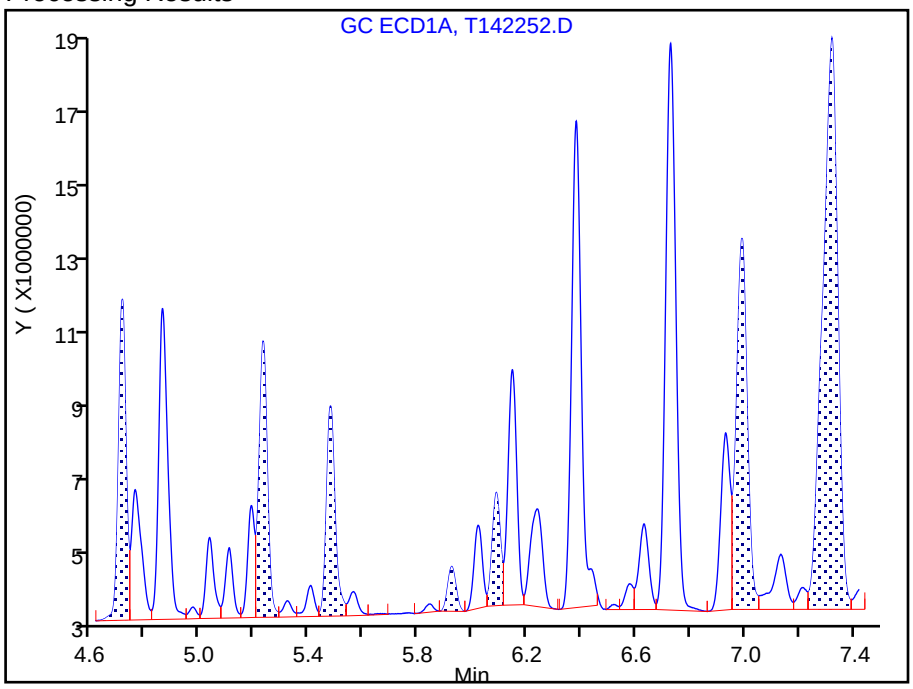
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Injection Date: 22-Mar-2018 08:35:25 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-D MS
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.72	4.71	16552177	955.4706
5.24	5.23	15788710	291.8464
5.49	5.48	12584710	197.8141
5.94	5.92	2528108	49.675787
6.10	6.09	6443100	65.841965
6.45			
7.00	6.99	27493107	432.5985
7.34	7.32	58871898	575.0467
		Average =	139.0100



Reviewer: patelji, 22-Mar-2018 14:22:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-D MS

Matrix: Solid | Lab File ID: T142252.D

Analysis Method: 8082A | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0125(g) | Date Analyzed: 03/22/2018 08:35

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.379		0.074	0.0099
11104-28-2	Aroclor 1221	0.0099	U	0.074	0.0099
11141-16-5	Aroclor 1232	0.0099	U	0.074	0.0099
53469-21-9	Aroclor 1242	0.0099	U	0.074	0.0099
12672-29-6	Aroclor 1248	0.0099	U	0.074	0.0099
11097-69-1	Aroclor 1254	0.010	U	0.074	0.010
11096-82-5	*Aroclor 1260*	*0.344*		*0.074*	*0.010*
11100-14-4	Aroclor 1268	0.010	U	0.074	0.010
37324-23-5	Aroclor-1262	0.010	U	0.074	0.010
1336-36-3	Polychlorinated biphenyls, Total	0.723		0.074	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	102		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Lims ID: 460-152046-E-4-D MS
Client ID:
Sample Type: MS
Inject. Date: 22-Mar-2018 08:35:25 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.462	1.461	0.001	36275581	20.0	20.0	
2	1.270	1.269	0.001	57585701	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.351	2.352	-0.001	73248595	50.0	45.6	
2	1.891	1.890	0.001	110449727	50.0	42.6	
						RPD = 6.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.929	2.931	-0.002	12957905	500.0	482.3	
1	3.418	3.419	-0.001	24311829	500.0	478.2	
1	3.971	3.972	-0.001	52109322	500.0	440.9	
1	4.133	4.136	-0.003	21702758	500.0	470.6	
1	4.255	4.257	-0.002	16879465	500.0	547.6	
1	4.710	4.711	-0.001	16552177	500.0	458.8	
1	4.858	4.860	-0.002	19639291	500.0	474.3	
1	5.228	5.230	-0.002	15788710	500.0	498.4	
		Average of Peak Amounts =				481.4	
2	2.258	2.257	0.001	20174308	500.0	418.3	
2	2.625	2.626	-0.001	42496941	500.0	451.0	
2	2.837	2.837	0.000	27046327	500.0	435.1	
2	3.127	3.127	0.000	86320366	500.0	423.2	
2	3.274	3.273	0.001	35750666	500.0	436.8	
2	3.368	3.341	0.027	52270857	500.0	1052.6	
2	3.738	3.737	0.001	37031633	500.0	435.4	
2	4.174	4.174	0.000	20108014	500.0	452.0	
		Average of Peak Amounts =				513.0	
						RPD = 6.37	
8 PCB-1260							
1	6.147	6.149	-0.002	14336988	500.0	452.7	
1	6.382	6.382	0.000	32846035	500.0	444.8	
1	6.729	6.732	-0.003	39692670	500.0	449.2	
1	7.503	7.506	-0.003	30193267	500.0	500.2	
1	8.052	8.055	-0.003	31425779	500.0	492.9	
1	8.598	8.602	-0.004	79102509	500.0	498.7	
1	0.000	9.392	0.000	0	500.0	0	
1	10.229	10.229	0.000	21999194	500.0	537.4	
		Average of Peak Amounts =				482.3	
2	5.158	5.157	0.001	53798253	500.0	437.0	
2	5.841	5.841	0.000	94760814	500.0	422.5	
2	6.003	6.002	0.001	51353860	500.0	472.8	
2	6.345	6.344	0.001	52409060	500.0	440.7	
2	6.833	6.836	-0.003	129405627	500.0	506.1	
2	7.297	7.297	0.000	59001262	500.0	412.4	
2	7.453	7.452	0.001	37600814	500.0	559.5	
2	8.508	8.509	-0.001	31786679	500.0	472.1	
		Average of Peak Amounts =				465.4	
						RPD = 3.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	10.804	10.798	0.006	71433388	50.0	48.4	
2	9.518	9.521	-0.003	114096075	50.0	51.0	
						RPD = 5.09	
S 12 Polychlorinated biphenyls, Total							
1						963.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

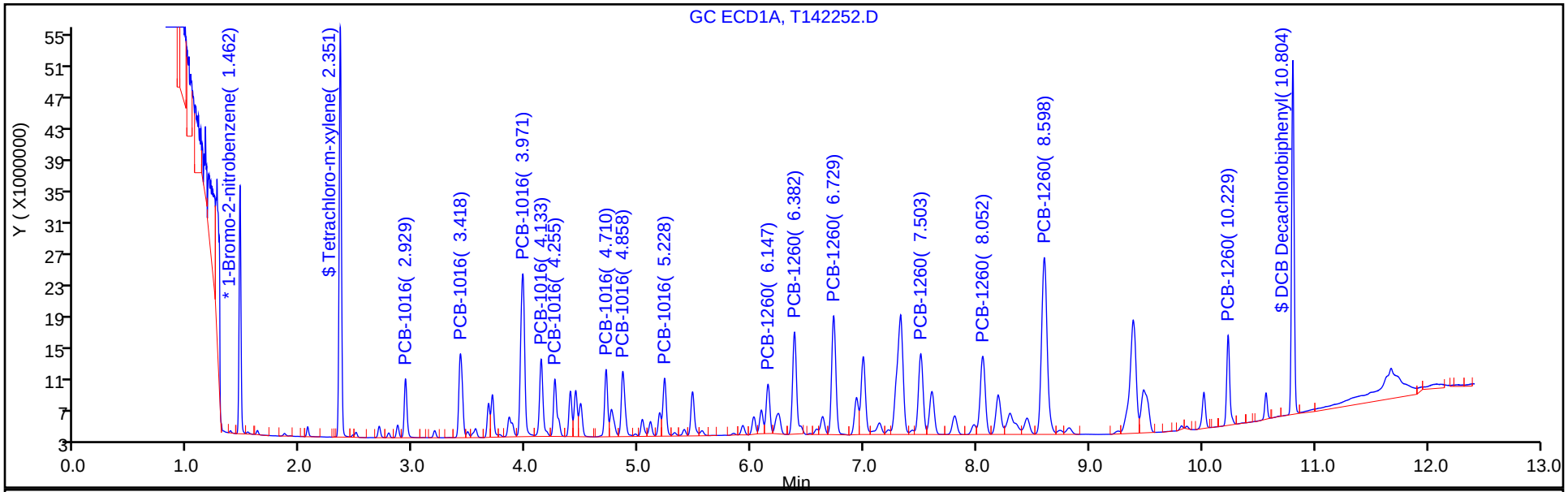
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

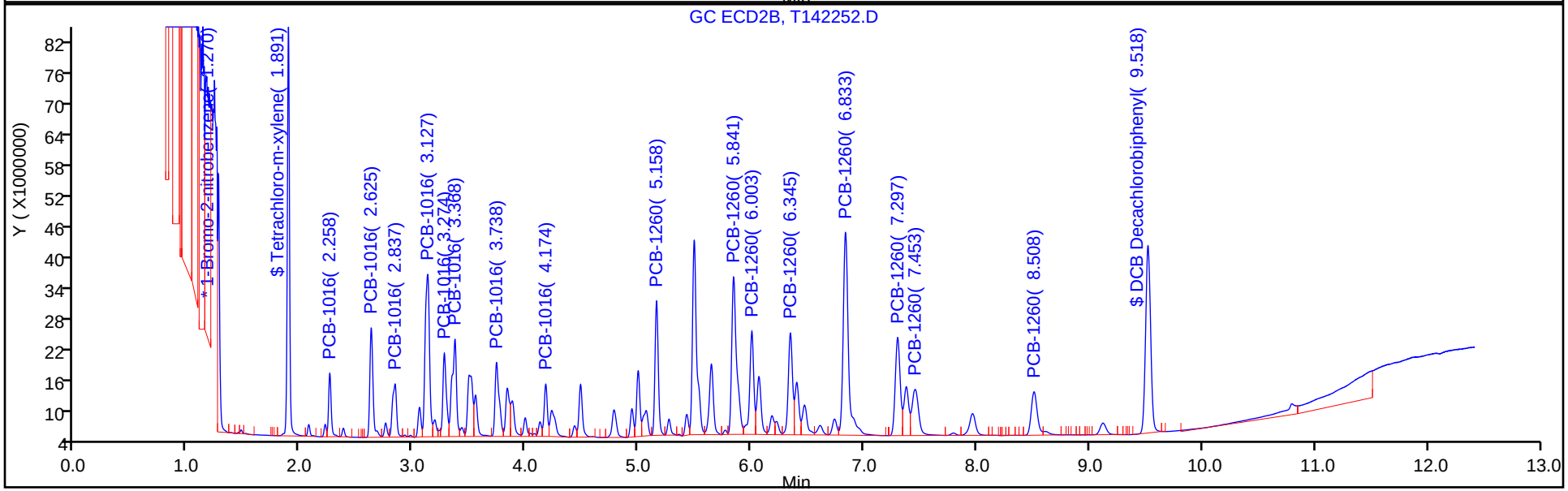
Report Date: 22-Mar-2018 15:07:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D

Injection Date:	22-Mar-2018 08:35:25	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152046-E-4-D MS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

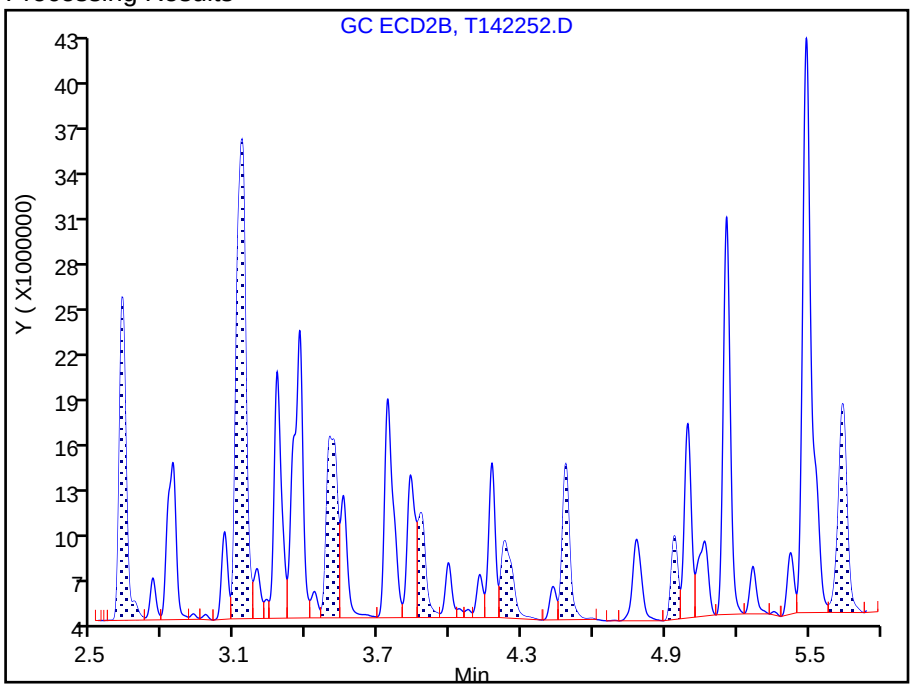
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Injection Date: 22-Mar-2018 08:35:25 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-D MS
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.63	2.63	42496941	322.6270
3.14	3.13	86320366	240.0638
3.50	3.50	37361634	105.2550
3.86	3.88	16000664	80.543805
4.25	4.23	16758478	29.982757
4.48	4.48	22197848	90.794379
4.97	4.94	10643187	65.947969
5.62	5.64	35543345	322.7245
		Average =	157.2424



Reviewer: patelji, 22-Mar-2018 14:22:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

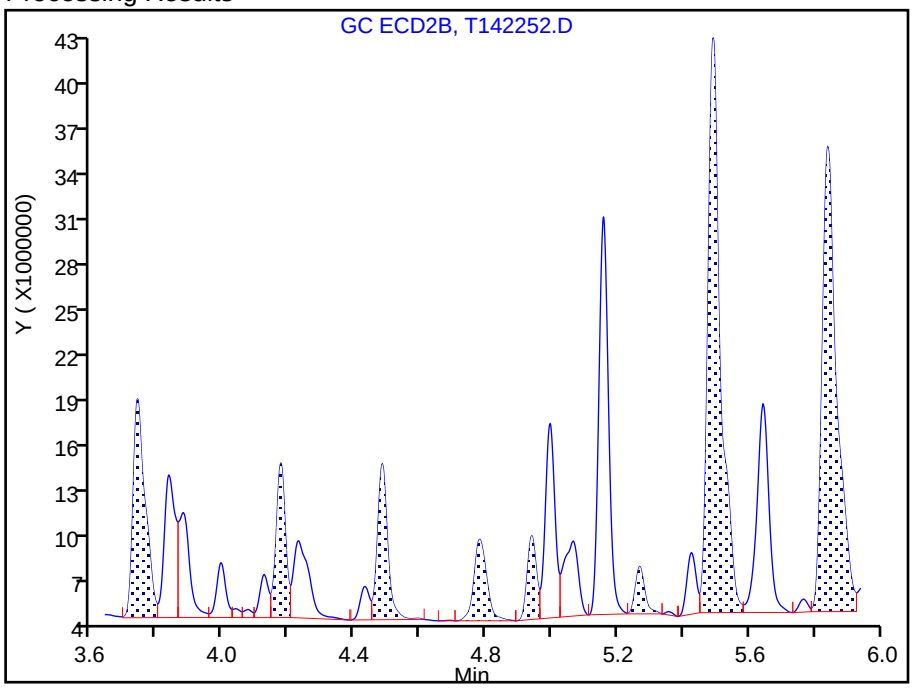
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D
Injection Date: 22-Mar-2018 08:35:25 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-D MS
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.74	3.74	37031633	389.3143
4.18	4.17	20108014	80.680536
4.48	4.48	22197848	63.896069
4.80	4.78	14463875	53.144830
4.94	4.94	10643187	22.447432
5.27	5.27	6260615	16.600989
5.49	5.49	100914067	297.3369
5.84	5.84	94760814	188.6587
		Average =	139.0100



Reviewer: patelji, 22-Mar-2018 14:22:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

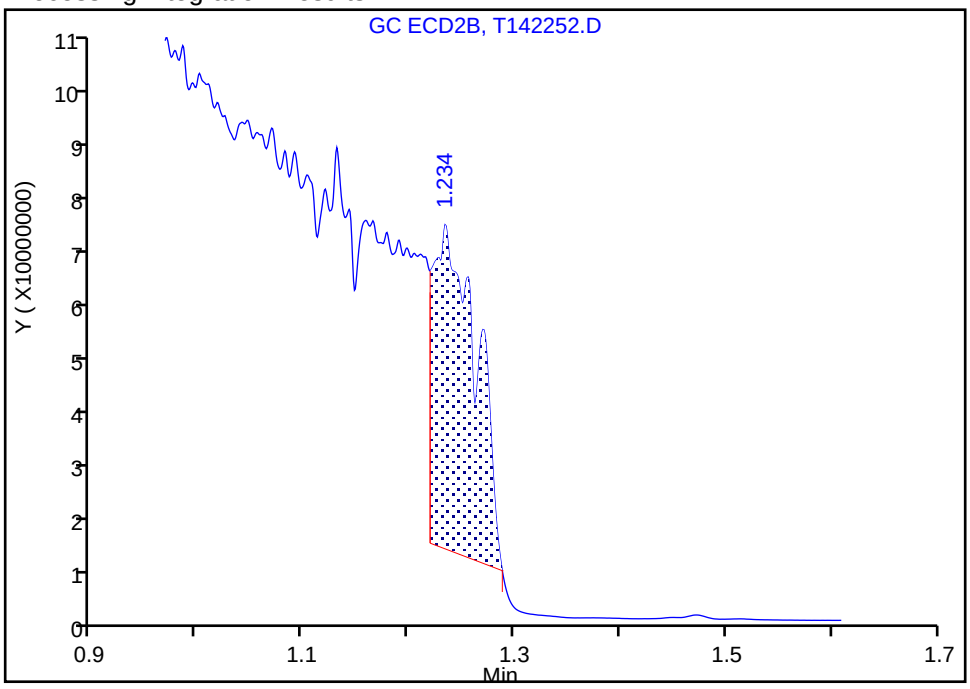
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142252.D				
Injection Date:	22-Mar-2018 08:35:25	Instrument ID:	CPESTGC11		
Lims ID:	460-152046-E-4-D MS				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

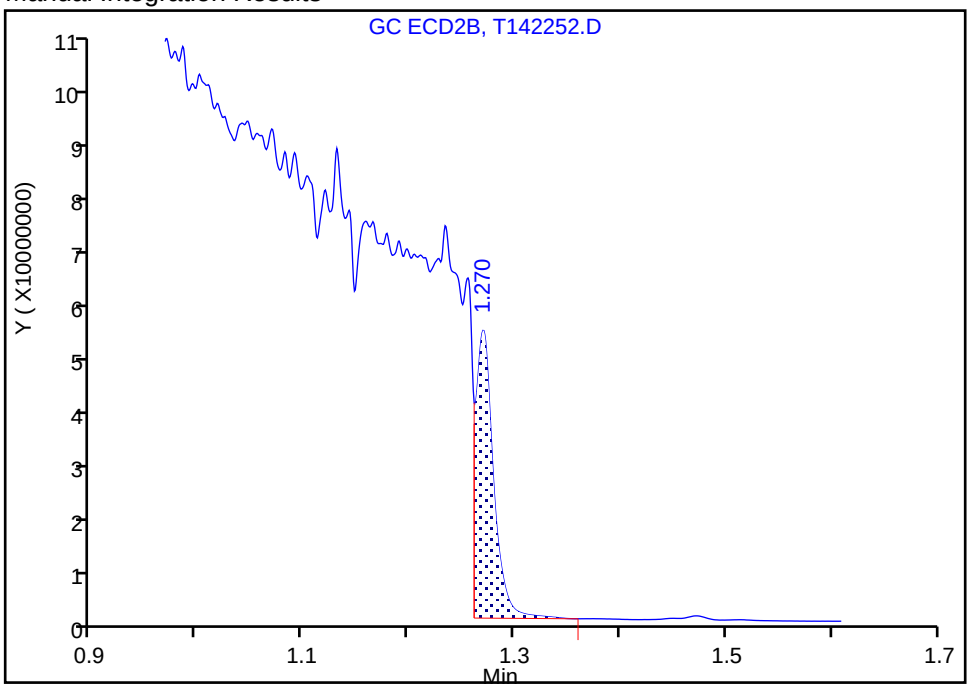
Processing Integration Results

RT: 1.23
Area: 159351238
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 57585701
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 22-Mar-2018 14:22:45

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-E MSD

Matrix: Solid | Lab File ID: T142253.D

Analysis Method: 8082A | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0141(g) | Date Analyzed: 03/22/2018 08:51

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	*Aroclor 1016*	*0.338*		*0.074*	*0.0099*
11104-28-2	*Aroclor 1221*	*0.0099*	*U*	*0.074*	*0.0099*
11141-16-5	*Aroclor 1232*	*0.0099*	*U*	*0.074*	*0.0099*
53469-21-9	*Aroclor 1242*	*0.0099*	*U*	*0.074*	*0.0099*
12672-29-6	*Aroclor 1248*	*0.0099*	*U*	*0.074*	*0.0099*
11097-69-1	*Aroclor 1254*	*0.010*	*U*	*0.074*	*0.010*
11096-82-5	Aroclor 1260	0.354		0.074	0.010
11100-14-4	*Aroclor 1268*	*0.010*	*U*	*0.074*	*0.010*
37324-23-5	*Aroclor-1262*	*0.010*	*U*	*0.074*	*0.010*
1336-36-3	*Polychlorinated biphenyls, Total*	*0.692*		*0.074*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Lims ID: 460-152046-E-4-E MSD
Client ID:
Sample Type: MSD
Inject. Date: 22-Mar-2018 08:51:07 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.460	1.461	-0.001	36913145	20.0	20.0	
2	1.269	1.269	0.000	56994445	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.350	2.352	-0.002	75700277	50.0	46.3	
2	1.890	1.890	0.000	121061391	50.0	47.2	
						RPD = 1.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.929	2.931	-0.002	12058888	500.0	441.1	
1	3.415	3.419	-0.004	22800528	500.0	440.7	
1	3.969	3.972	-0.003	49061452	500.0	407.9	
1	4.131	4.136	-0.005	20279038	500.0	432.1	
1	4.254	4.257	-0.003	15868963	500.0	505.9	
1	4.708	4.711	-0.003	15932742	500.0	434.0	
1	4.856	4.860	-0.004	18908628	500.0	448.7	
1	5.228	5.230	-0.002	17761972	500.0	551.0	
		Average of Peak Amounts =				457.7	
2	2.257	2.257	0.000	20443901	500.0	428.3	
2	2.624	2.626	-0.002	42384008	500.0	454.4	
2	2.836	2.837	-0.001	26838186	500.0	436.3	
2	3.126	3.127	-0.001	85024680	500.0	421.1	
2	3.273	3.273	0.000	35162863	500.0	434.0	
2	3.367	3.341	0.026	83162779	500.0	1692.1	
2	3.736	3.737	-0.001	35816153	500.0	425.5	
2	4.172	4.174	-0.002	19906497	500.0	452.1	
		Average of Peak Amounts =				593.0	
						RPD = 25.76	
8 PCB-1260							
1	6.146	6.149	-0.003	14899122	500.0	462.3	
1	6.380	6.382	-0.002	33574337	500.0	446.8	
1	6.729	6.732	-0.003	40237814	500.0	447.5	
1	7.499	7.506	-0.007	30564542	500.0	497.6	
1	8.050	8.055	-0.005	31524747	500.0	486.0	
1	8.596	8.602	-0.006	78395415	500.0	485.7	
1	0.000	9.392	0.000	0	500.0	0	
1	10.225	10.229	-0.004	21852823	500.0	524.6	
		Average of Peak Amounts =				478.6	
2	5.155	5.157	-0.002	52114659	500.0	427.7	
2	5.840	5.841	-0.001	91405344	500.0	411.8	
2	6.002	6.002	0.000	49881602	500.0	464.1	
2	6.343	6.344	-0.001	50610845	500.0	430.0	
2	6.833	6.836	-0.003	124126684	500.0	490.5	
2	7.295	7.297	-0.002	56097209	500.0	396.2	
2	7.450	7.452	-0.002	35605612	500.0	535.3	
2	8.509	8.509	0.000	30934922	500.0	464.2	
		Average of Peak Amounts =				452.5	
						RPD = 5.62	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	10.794	10.798	-0.004	75672075	50.0	50.4	
2	9.519	9.521	-0.002	120694741	50.0	54.5	
						RPD = 7.72	
S 12 Polychlorinated biphenyls, Total							
1						936.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

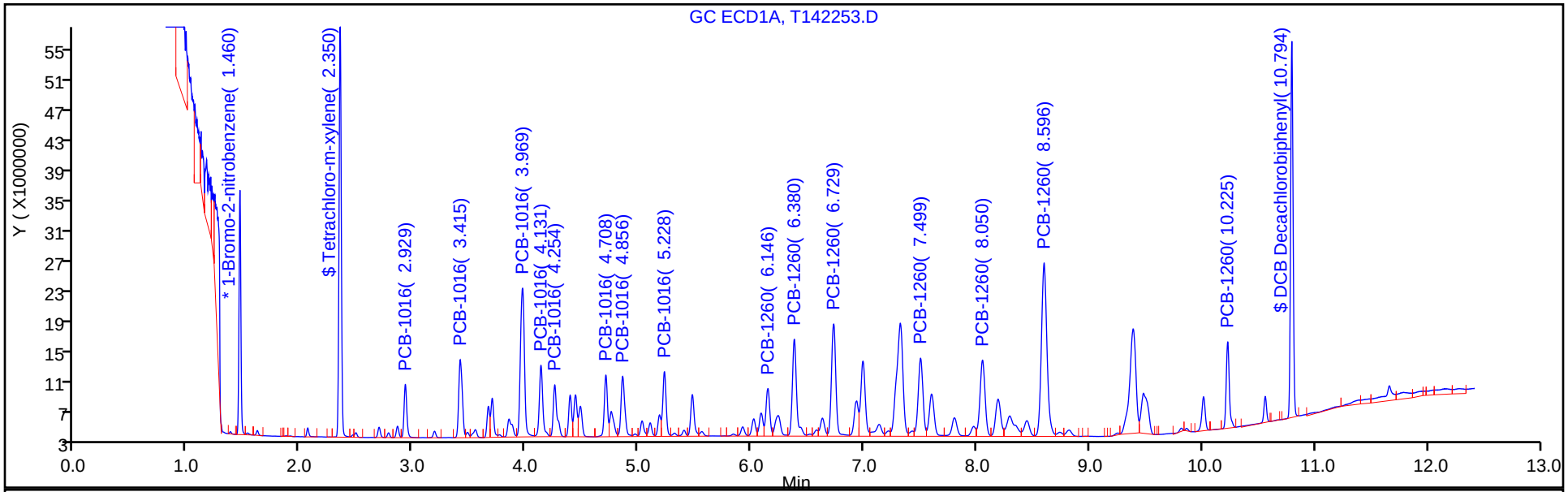
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

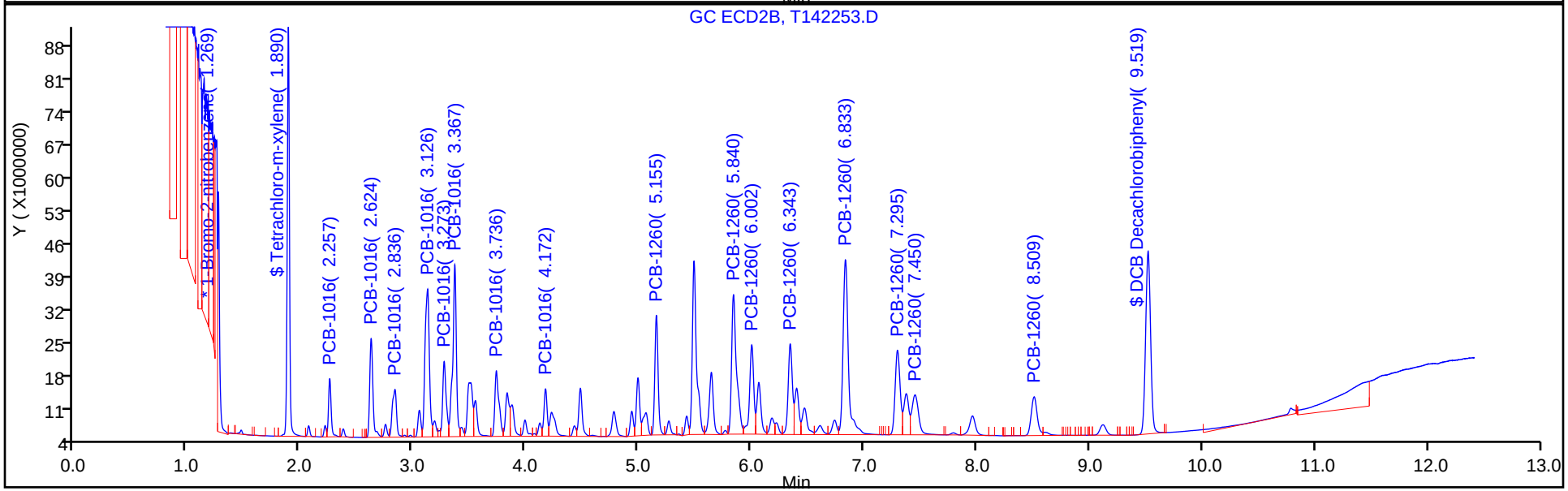
Report Date: 22-Mar-2018 15:07:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D

Injection Date:	22-Mar-2018 08:51:07	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152046-E-4-E MSD			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

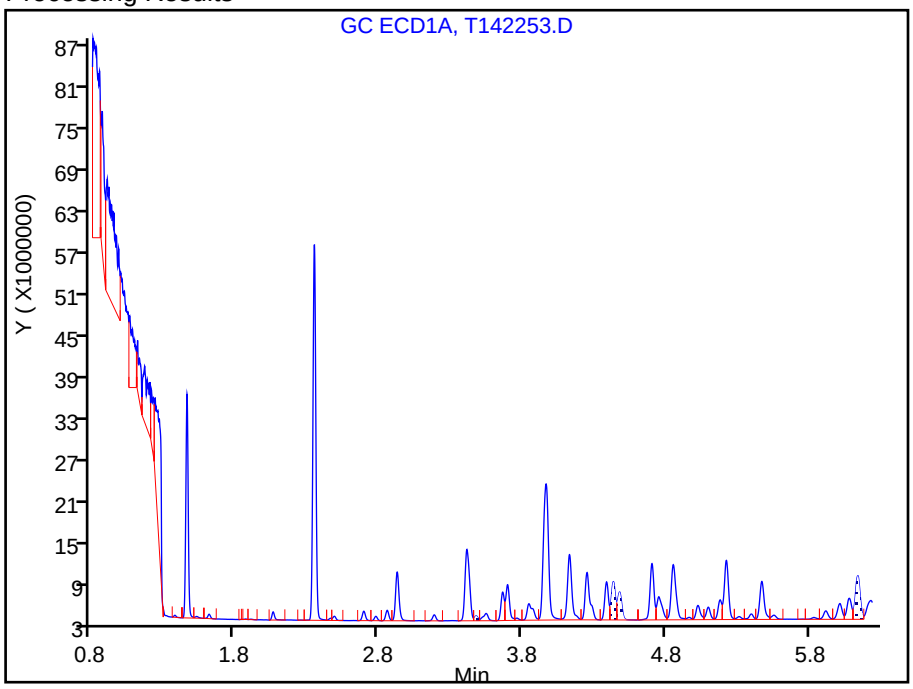
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Injection Date: 22-Mar-2018 08:51:07 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-E MSD
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47	3.48	1213976	52.097425
4.03			
4.42	4.44	11114481	317.4373
4.48	4.48	8289601	263.2843
4.90			
0.00			
5.27			
6.12	6.15	14899122	451.0226
		Average =	270.9604



Reviewer: patelji, 22-Mar-2018 14:22:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

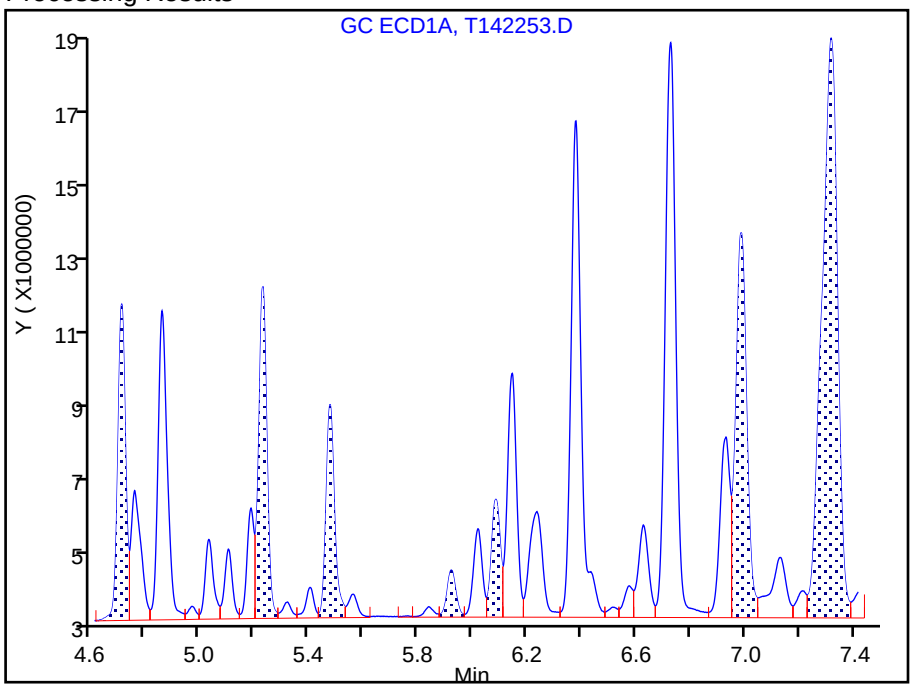
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Injection Date: 22-Mar-2018 08:51:07 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-E MSD
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.72	4.71	15932742	903.8285
5.24	5.23	17761972	322.6504
5.49	5.48	11898137	183.7919
5.94	5.92	2804404	54.153065
6.10	6.09	6875361	69.045718
6.45			
7.00	6.99	27542713	425.8937
7.34	7.32	59008836	566.4290
		Average =	360.8275



Reviewer: patelji, 22-Mar-2018 14:22:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-152046-E-4-E MSD

Matrix: Solid | Lab File ID: T142253.D

Analysis Method: 8082A | Date Collected: 03/15/2018 03:00

Extraction Method: 3546 | Date Extracted: 03/20/2018 14:37

Sample wt/vol: 15.0141(g) | Date Analyzed: 03/22/2018 08:51

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

% Moisture: 9.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 505165 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.438		0.074	0.0099
11104-28-2	Aroclor 1221	0.0099	U	0.074	0.0099
11141-16-5	Aroclor 1232	0.0099	U	0.074	0.0099
53469-21-9	Aroclor 1242	0.0099	U	0.074	0.0099
12672-29-6	Aroclor 1248	0.0099	U	0.074	0.0099
11097-69-1	Aroclor 1254	0.010	U	0.074	0.010
11096-82-5	*Aroclor 1260*	*0.334*		*0.074*	*0.010*
11100-14-4	Aroclor 1268	0.010	U	0.074	0.010
37324-23-5	Aroclor-1262	0.010	U	0.074	0.010
1336-36-3	Polychlorinated biphenyls, Total	0.772		0.074	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		53-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Lims ID: 460-152046-E-4-E MSD
Client ID:
Sample Type: MSD
Inject. Date: 22-Mar-2018 08:51:07 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC11

Method: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\8082 ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 22-Mar-2018 15:07:26 Calib Date: 18-Jan-2018 16:16:31
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC11\20180118-66276.b\T139551.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK032

First Level Reviewer: patelji Date: 22-Mar-2018 14:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 13 1-Bromo-2-nitrobenzene							M
1	1.460	1.461	-0.001	36913145	20.0	20.0	
2	1.269	1.269	0.000	56994445	20.0	20.0	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.350	2.352	-0.002	75700277	50.0	46.3	
2	1.890	1.890	0.000	121061391	50.0	47.2	
						RPD = 1.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 PCB-1016							
1	2.929	2.931	-0.002	12058888	500.0	441.1	
1	3.415	3.419	-0.004	22800528	500.0	440.7	
1	3.969	3.972	-0.003	49061452	500.0	407.9	
1	4.131	4.136	-0.005	20279038	500.0	432.1	
1	4.254	4.257	-0.003	15868963	500.0	505.9	
1	4.708	4.711	-0.003	15932742	500.0	434.0	
1	4.856	4.860	-0.004	18908628	500.0	448.7	
1	5.228	5.230	-0.002	17761972	500.0	551.0	
		Average of Peak Amounts =				457.7	
2	2.257	2.257	0.000	20443901	500.0	428.3	
2	2.624	2.626	-0.002	42384008	500.0	454.4	
2	2.836	2.837	-0.001	26838186	500.0	436.3	
2	3.126	3.127	-0.001	85024680	500.0	421.1	
2	3.273	3.273	0.000	35162863	500.0	434.0	
2	3.367	3.341	0.026	83162779	500.0	1692.1	
2	3.736	3.737	-0.001	35816153	500.0	425.5	
2	4.172	4.174	-0.002	19906497	500.0	452.1	
		Average of Peak Amounts =				593.0	
						RPD = 25.76	
8 PCB-1260							
1	6.146	6.149	-0.003	14899122	500.0	462.3	
1	6.380	6.382	-0.002	33574337	500.0	446.8	
1	6.729	6.732	-0.003	40237814	500.0	447.5	
1	7.499	7.506	-0.007	30564542	500.0	497.6	
1	8.050	8.055	-0.005	31524747	500.0	486.0	
1	8.596	8.602	-0.006	78395415	500.0	485.7	
1	0.000	9.392	0.000	0	500.0	0	
1	10.225	10.229	-0.004	21852823	500.0	524.6	
		Average of Peak Amounts =				478.6	
2	5.155	5.157	-0.002	52114659	500.0	427.7	
2	5.840	5.841	-0.001	91405344	500.0	411.8	
2	6.002	6.002	0.000	49881602	500.0	464.1	
2	6.343	6.344	-0.001	50610845	500.0	430.0	
2	6.833	6.836	-0.003	124126684	500.0	490.5	
2	7.295	7.297	-0.002	56097209	500.0	396.2	
2	7.450	7.452	-0.002	35605612	500.0	535.3	
2	8.509	8.509	0.000	30934922	500.0	464.2	
		Average of Peak Amounts =				452.5	
						RPD = 5.62	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 11 DCB Decachlorobiphenyl							
1	10.794	10.798	-0.004	75672075	50.0	50.4	
2	9.519	9.521	-0.002	120694741	50.0	54.5	
						RPD = 7.72	
S 12 Polychlorinated biphenyls, Total							
1						936.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

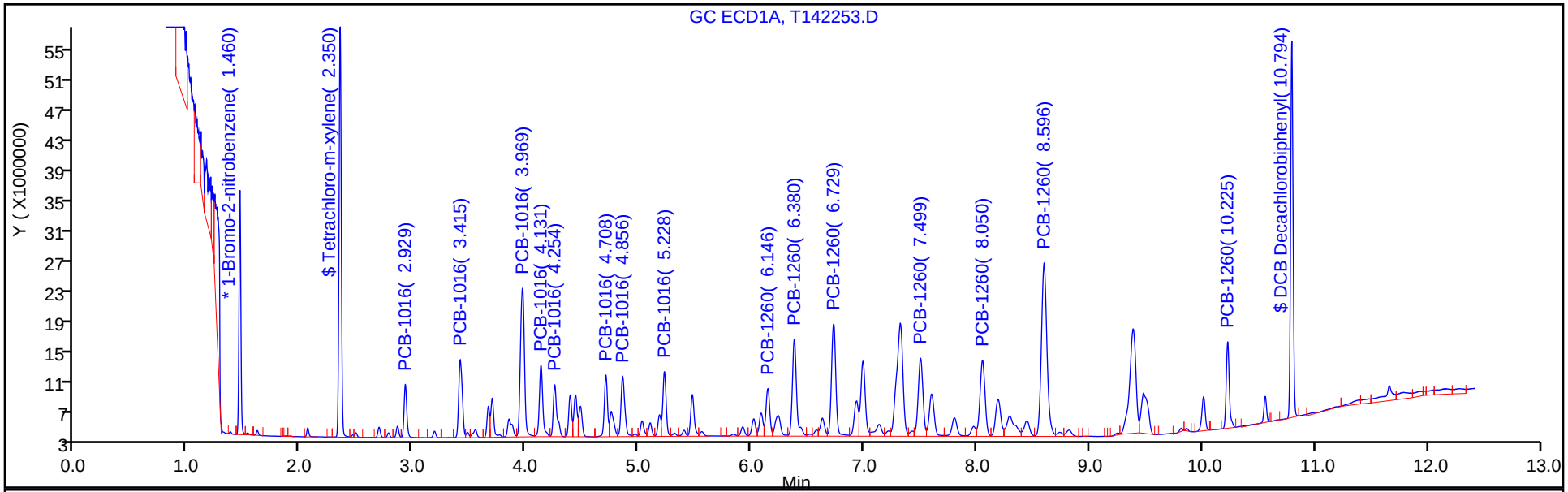
SGPCBISTD_00010 Amount Added: 20.00 Units: uL Run Reagent

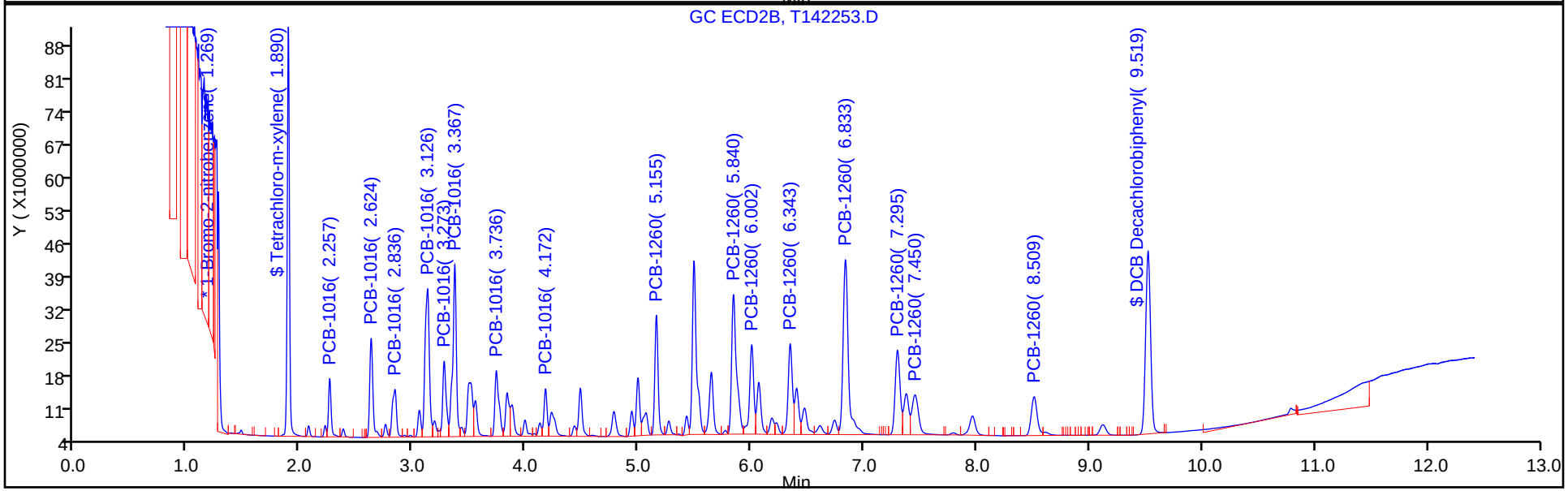
Report Date: 22-Mar-2018 15:07:40 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D

Injection Date:	22-Mar-2018 08:51:07	Instrument ID:	CPESTGC11	Operator ID:	
Lims ID:	460-152046-E-4-E MSD			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		





User Disabled Compound Report

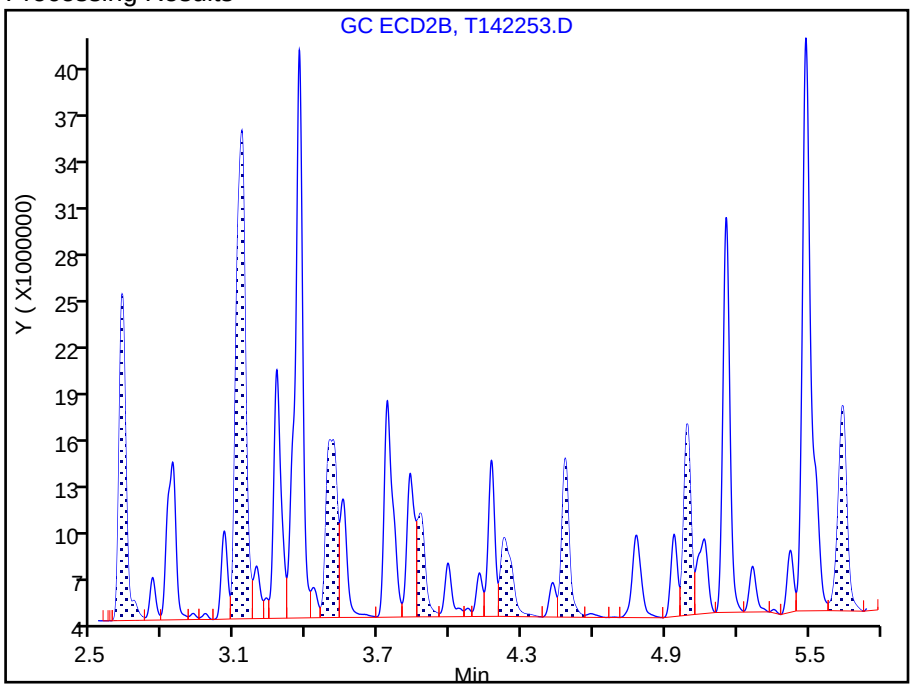
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Injection Date: 22-Mar-2018 08:51:07 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-E MSD
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

6 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
2.63	2.62	42384008	1317.0258
3.14	3.13	85024680	967.8493
3.50	3.50	36570831	421.6976
3.86	3.87	15564150	320.6777
4.25	4.23	16937981	124.0360
4.48	4.48	22297441	373.2952
4.97	4.99	25853439	655.6881
5.62	5.64	34119674	1268.0249
		Average =	270.9604



Reviewer: patelji, 22-Mar-2018 14:22:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

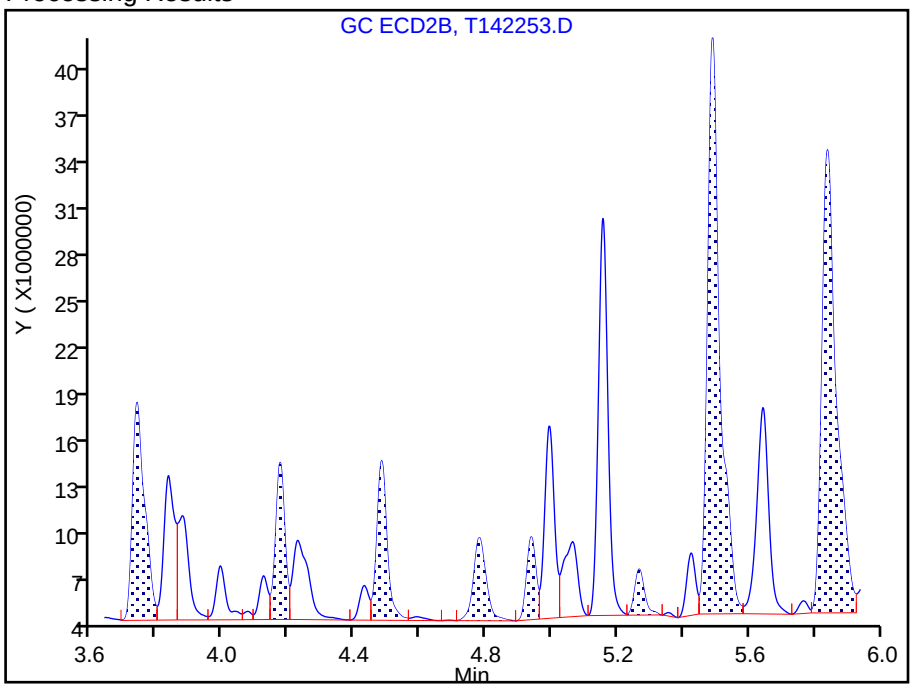
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D
Injection Date: 22-Mar-2018 08:51:07 Instrument ID: CPESTGC11
Lims ID: 460-152046-E-4-E MSD
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082 ISTD Limit Group: GC 8082A PCB ISTD

7 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.74	3.74	35816153	1541.1882
4.18	4.17	19906497	326.9217
4.48	4.48	22297441	262.7045
4.80	4.78	14191962	213.4362
4.94	4.94	10406871	89.838895
5.27	5.27	6158745	66.843384
5.49	5.49	97172733	1171.9006
5.84	5.84	91405344	744.8501
		Average =	360.8275



Reviewer: patelji, 22-Mar-2018 14:22:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

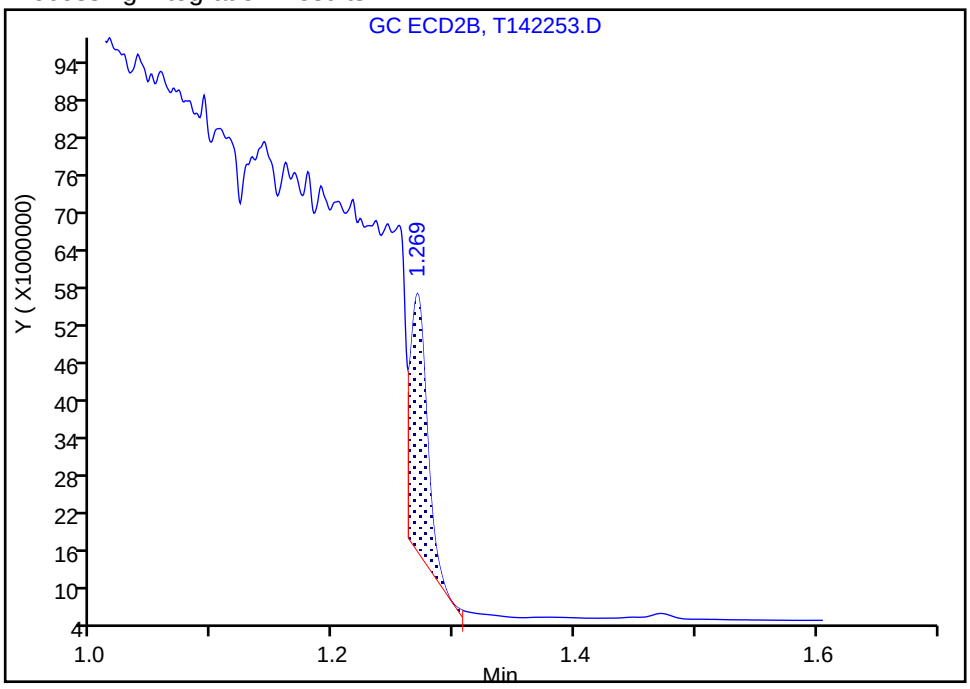
Data File:	\\ChromNA\Edison\ChromData\CPESTGC11\20180322-69120.b\T142253.D				
Injection Date:	22-Mar-2018 08:51:07	Instrument ID:	CPESTGC11		
Lims ID:	460-152046-E-4-E MSD				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8082 ISTD	Limit Group:	GC 8082A PCB ISTD		
Column:		Detector	GC ECD2B		

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

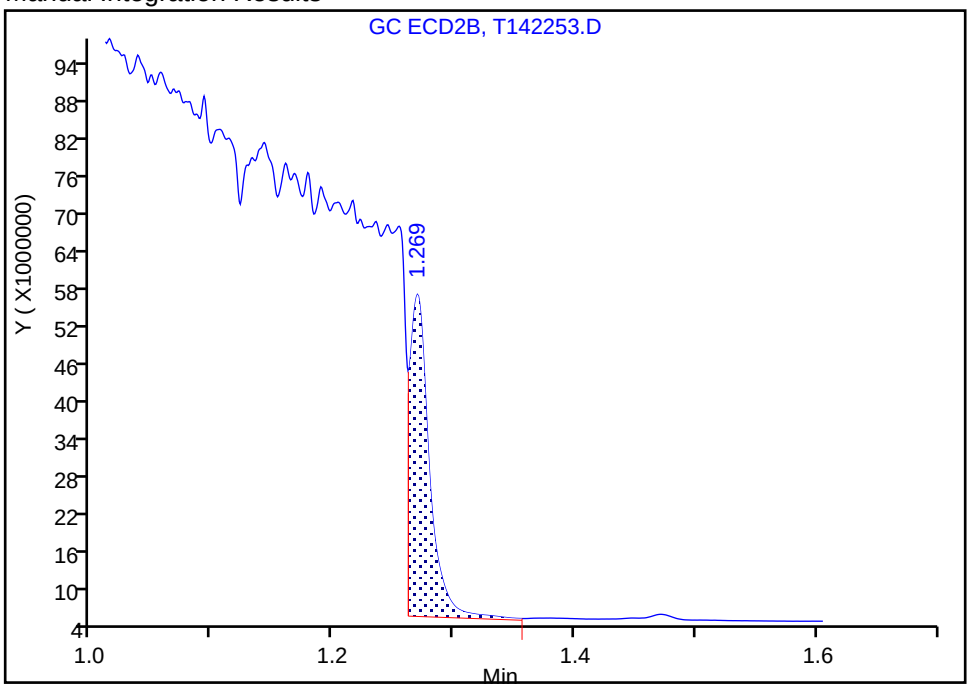
Processing Integration Results

RT: 1.27
Area: 38931953
Amount: 20.000000
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 56994445
Amount: 20.000000
Amount Units: ug/l



Reviewer: patelji, 22-Mar-2018 14:22:25

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC11 Start Date: 01/18/2018 12:37

Analysis Batch Number: 491295 End Date: 01/18/2018 16:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/18/2018 12:37	1		CLP-2 0.53(mm)
ZZZZZ		01/18/2018 12:37	1		Rtx-CLP 0.53(mm)
IC 460-491295/2		01/18/2018 12:51	1	T139537.D	CLP-2 0.53(mm)
IC 460-491295/2		01/18/2018 12:51	1	T139537.D	Rtx-CLP 0.53(mm)
IC 460-491295/3		01/18/2018 13:06	1	T139538.D	CLP-2 0.53(mm)
IC 460-491295/3		01/18/2018 13:06	1	T139538.D	Rtx-CLP 0.53(mm)
IC 460-491295/4 ICIS		01/18/2018 13:21	1	T139539.D	CLP-2 0.53(mm)
IC 460-491295/4 ICIS		01/18/2018 13:21	1	T139539.D	Rtx-CLP 0.53(mm)
IC 460-491295/5		01/18/2018 13:35	1	T139540.D	CLP-2 0.53(mm)
IC 460-491295/5		01/18/2018 13:35	1	T139540.D	Rtx-CLP 0.53(mm)
ZZZZZ		01/18/2018 13:50	1		CLP-2 0.53(mm)
ZZZZZ		01/18/2018 13:50	1		Rtx-CLP 0.53(mm)
ZZZZZ		01/18/2018 14:04	1		CLP-2 0.53(mm)
ZZZZZ		01/18/2018 14:04	1		Rtx-CLP 0.53(mm)
IC 460-491295/21		01/18/2018 14:19	1	T139543.D	CLP-2 0.53(mm)
IC 460-491295/21		01/18/2018 14:19	1	T139543.D	Rtx-CLP 0.53(mm)
ICV 460-491295/22		01/18/2018 14:34	1	T139544.D	CLP-2 0.53(mm)
ICV 460-491295/22		01/18/2018 14:34	1	T139544.D	Rtx-CLP 0.53(mm)
IC 460-491295/8		01/18/2018 14:48	1	T139545.D	CLP-2 0.53(mm)
IC 460-491295/8		01/18/2018 14:48	1	T139545.D	Rtx-CLP 0.53(mm)
IC 460-491295/9		01/18/2018 15:03	1	T139546.D	CLP-2 0.53(mm)
IC 460-491295/9		01/18/2018 15:03	1	T139546.D	Rtx-CLP 0.53(mm)
IC 460-491295/10		01/18/2018 15:18	1	T139547.D	CLP-2 0.53(mm)
IC 460-491295/10		01/18/2018 15:18	1	T139547.D	Rtx-CLP 0.53(mm)
IC 460-491295/11		01/18/2018 15:32	1	T139548.D	CLP-2 0.53(mm)
IC 460-491295/11		01/18/2018 15:32	1	T139548.D	Rtx-CLP 0.53(mm)
IC 460-491295/12		01/18/2018 15:47	1	T139549.D	CLP-2 0.53(mm)
IC 460-491295/12		01/18/2018 15:47	1	T139549.D	Rtx-CLP 0.53(mm)
IC 460-491295/13		01/18/2018 16:01	1	T139550.D	CLP-2 0.53(mm)
IC 460-491295/13		01/18/2018 16:01	1	T139550.D	Rtx-CLP 0.53(mm)
IC 460-491295/14		01/18/2018 16:16	1	T139551.D	CLP-2 0.53(mm)
IC 460-491295/14		01/18/2018 16:16	1	T139551.D	Rtx-CLP 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC11 Start Date: 03/22/2018 06:49

Analysis Batch Number: 505165 End Date: 03/22/2018 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/22/2018 06:49	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 06:49	1		Rtx-CLP 0.53(mm)
CCVIS 460-505165/2		03/22/2018 07:05	1	T142249.D	CLP-2 0.53(mm)
CCVIS 460-505165/2		03/22/2018 07:05	1	T142249.D	Rtx-CLP 0.53(mm)
MB 460-504830/1-A		03/22/2018 08:04	1	T142250.D	CLP-2 0.53(mm)
MB 460-504830/1-A		03/22/2018 08:04	1	T142250.D	Rtx-CLP 0.53(mm)
LCS 460-504830/2-A		03/22/2018 08:19	1	T142251.D	CLP-2 0.53(mm)
LCS 460-504830/2-A		03/22/2018 08:19	1	T142251.D	Rtx-CLP 0.53(mm)
460-152046-E-4-D MS		03/22/2018 08:35	1	T142252.D	CLP-2 0.53(mm)
460-152046-E-4-D MS		03/22/2018 08:35	1	T142252.D	Rtx-CLP 0.53(mm)
460-152046-E-4-E MSD		03/22/2018 08:51	1	T142253.D	CLP-2 0.53(mm)
460-152046-E-4-E MSD		03/22/2018 08:51	1	T142253.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 09:06	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 09:06	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 09:22	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 09:22	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 13:36	50		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 13:36	50		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 13:52	5		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 13:52	5		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 14:07	500		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 14:07	500		Rtx-CLP 0.53(mm)
460-152136-2		03/22/2018 14:28	1	T142259.D	CLP-2 0.53(mm)
460-152136-2		03/22/2018 14:28	1	T142259.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 14:44	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 14:44	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 14:59	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 14:59	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 15:15	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 15:15	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 15:30	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 15:30	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 15:46	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 15:46	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 16:02	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 16:02	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 16:17	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 16:17	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 16:33	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 16:33	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 16:49	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 16:49	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 17:04	1		CLP-2 0.53(mm)
ZZZZZ		03/22/2018 17:04	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/22/2018 17:20	1		CLP-2 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC11 Start Date: 03/22/2018 06:49

Analysis Batch Number: 505165 End Date: 03/22/2018 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/22/2018 17:20	1		Rtx-CLP 0.53(mm)
CCV 460-505165/24		03/22/2018 17:36	1	T142271.D	CLP-2 0.53(mm)
CCV 460-505165/24		03/22/2018 17:36	1	T142271.D	Rtx-CLP 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC7 Start Date: 12/27/2017 11:54

Analysis Batch Number: 487360 End Date: 12/27/2017 16:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/27/2017 11:54	1		CLP-2 0.53(mm)
ZZZZZ		12/27/2017 11:54	1		CLP-1 0.53(mm)
IC 460-487360/2		12/27/2017 12:17	1	7R011788.D	CLP-2 0.53(mm)
IC 460-487360/2		12/27/2017 12:17	1	7R011788.D	CLP-1 0.53(mm)
IC 460-487360/3		12/27/2017 12:41	1	7R011789.D	CLP-2 0.53(mm)
IC 460-487360/3		12/27/2017 12:41	1	7R011789.D	CLP-1 0.53(mm)
IC 460-487360/4 ICRT		12/27/2017 13:04	1	7R011790.D	CLP-2 0.53(mm)
IC 460-487360/4 ICRT		12/27/2017 13:04	1	7R011790.D	CLP-1 0.53(mm)
IC 460-487360/5		12/27/2017 13:28	1	7R011791.D	CLP-2 0.53(mm)
IC 460-487360/5		12/27/2017 13:28	1	7R011791.D	CLP-1 0.53(mm)
IC 460-487360/6		12/27/2017 13:51	1	7R011792.D	CLP-2 0.53(mm)
IC 460-487360/6		12/27/2017 13:51	1	7R011792.D	CLP-1 0.53(mm)
ICV 460-487360/7		12/27/2017 14:15	1	7R011793.D	CLP-2 0.53(mm)
ICV 460-487360/7		12/27/2017 14:15	1	7R011793.D	CLP-1 0.53(mm)
IC 460-487360/8		12/27/2017 14:39	1	7R011794.D	CLP-2 0.53(mm)
IC 460-487360/8		12/27/2017 14:39	1	7R011794.D	CLP-1 0.53(mm)
IC 460-487360/9		12/27/2017 15:02	1	7R011795.D	CLP-2 0.53(mm)
IC 460-487360/9		12/27/2017 15:02	1	7R011795.D	CLP-1 0.53(mm)
IC 460-487360/10		12/27/2017 15:25	1	7R011796.D	CLP-2 0.53(mm)
IC 460-487360/10		12/27/2017 15:25	1	7R011796.D	CLP-1 0.53(mm)
IC 460-487360/11		12/27/2017 15:49	1	7R011797.D	CLP-2 0.53(mm)
IC 460-487360/11		12/27/2017 15:49	1	7R011797.D	CLP-1 0.53(mm)
IC 460-487360/12		12/27/2017 16:12	1	7R011798.D	CLP-2 0.53(mm)
IC 460-487360/12		12/27/2017 16:12	1	7R011798.D	CLP-1 0.53(mm)
IC 460-487360/13		12/27/2017 16:36	1	7R011799.D	CLP-2 0.53(mm)
IC 460-487360/13		12/27/2017 16:36	1	7R011799.D	CLP-1 0.53(mm)
IC 460-487360/14		12/27/2017 16:59	1	7R011800.D	CLP-2 0.53(mm)
IC 460-487360/14		12/27/2017 16:59	1	7R011800.D	CLP-1 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC7 Start Date: 03/21/2018 07:39

Analysis Batch Number: 505004 End Date: 03/21/2018 15:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 460-505004/2		03/21/2018 07:39	1	7R013925.D	CLP-2 0.53(mm)
CCVIS 460-505004/2		03/21/2018 07:39	1	7R013925.D	CLP-1 0.53(mm)
MB 460-504716/1-A		03/21/2018 08:11	1	7R013926.D	CLP-2 0.53(mm)
MB 460-504716/1-A		03/21/2018 08:11	1	7R013926.D	CLP-1 0.53(mm)
LCS 460-504716/2-A		03/21/2018 08:35	1	7R013927.D	CLP-2 0.53(mm)
LCS 460-504716/2-A		03/21/2018 08:35	1	7R013927.D	CLP-1 0.53(mm)
LCSD 460-504716/3-A		03/21/2018 08:58	1	7R013928.D	CLP-2 0.53(mm)
LCSD 460-504716/3-A		03/21/2018 08:58	1	7R013928.D	CLP-1 0.53(mm)
ZZZZZ		03/21/2018 09:22	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 09:22	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 09:45	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 09:45	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 10:09	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:09	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 10:32	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:32	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 10:56	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 10:56	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 11:19	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 11:19	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 11:42	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 11:42	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 12:06	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:06	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 12:29	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:29	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 12:53	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:53	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 13:17	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:17	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 13:40	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:40	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 14:03	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:03	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 14:27	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:27	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 14:50	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:50	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 15:14	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 15:14	1		CLP-1 0.53(mm)
ZZZZZ		03/21/2018 15:38	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 15:38	1		CLP-1 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC8 Start Date: 12/14/2017 11:59

Analysis Batch Number: 484258 End Date: 12/14/2017 17:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/14/2017 11:59	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 11:59	1		Rtx-CLP 0.53(mm)
IC 460-484258/2		12/14/2017 12:17	1	8F123324.D	CLP-2 0.53(mm)
IC 460-484258/2		12/14/2017 12:17	1	8F123324.D	Rtx-CLP 0.53(mm)
IC 460-484258/3		12/14/2017 12:34	1	8F123325.D	CLP-2 0.53(mm)
IC 460-484258/3		12/14/2017 12:34	1	8F123325.D	Rtx-CLP 0.53(mm)
IC 460-484258/4 ICIS		12/14/2017 12:51	1	8F123326.D	CLP-2 0.53(mm)
IC 460-484258/4 ICIS		12/14/2017 12:51	1	8F123326.D	Rtx-CLP 0.53(mm)
IC 460-484258/5		12/14/2017 13:09	1	8F123327.D	CLP-2 0.53(mm)
IC 460-484258/5		12/14/2017 13:09	1	8F123327.D	Rtx-CLP 0.53(mm)
ZZZZZ		12/14/2017 13:26	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 13:26	1		Rtx-CLP 0.53(mm)
ZZZZZ		12/14/2017 13:44	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 13:44	1		Rtx-CLP 0.53(mm)
ZZZZZ		12/14/2017 14:23	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 14:23	1		Rtx-CLP 0.53(mm)
IC 460-484258/9		12/14/2017 14:40	1	8F123331.D	CLP-2 0.53(mm)
IC 460-484258/9		12/14/2017 14:40	1	8F123331.D	Rtx-CLP 0.53(mm)
ICV 460-484258/10		12/14/2017 14:58	1		CLP-2 0.53(mm)
ICV 460-484258/10		12/14/2017 14:58	1		Rtx-CLP 0.53(mm)
IC 460-484258/11		12/14/2017 15:15	1	8F123333.D	CLP-2 0.53(mm)
IC 460-484258/11		12/14/2017 15:15	1	8F123333.D	Rtx-CLP 0.53(mm)
IC 460-484258/12		12/14/2017 15:33	1	8F123334.D	CLP-2 0.53(mm)
IC 460-484258/12		12/14/2017 15:33	1	8F123334.D	Rtx-CLP 0.53(mm)
IC 460-484258/13		12/14/2017 15:50	1	8F123335.D	CLP-2 0.53(mm)
IC 460-484258/13		12/14/2017 15:50	1	8F123335.D	Rtx-CLP 0.53(mm)
ZZZZZ		12/14/2017 16:07	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 16:07	1		Rtx-CLP 0.53(mm)
ZZZZZ		12/14/2017 16:25	1		CLP-2 0.53(mm)
ZZZZZ		12/14/2017 16:25	1		Rtx-CLP 0.53(mm)
IC 460-484258/16		12/14/2017 16:42	1	8F123338.D	CLP-2 0.53(mm)
IC 460-484258/16		12/14/2017 16:42	1	8F123338.D	Rtx-CLP 0.53(mm)
IC 460-484258/17		12/14/2017 17:00	1	8F123339.D	CLP-2 0.53(mm)
IC 460-484258/17		12/14/2017 17:00	1	8F123339.D	Rtx-CLP 0.53(mm)
IC 460-484258/18		12/14/2017 17:17	1	8F123340.D	CLP-2 0.53(mm)
IC 460-484258/18		12/14/2017 17:17	1	8F123340.D	Rtx-CLP 0.53(mm)
IC 460-484258/19		12/14/2017 17:35	1	8F123341.D	CLP-2 0.53(mm)
IC 460-484258/19		12/14/2017 17:35	1	8F123341.D	Rtx-CLP 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: CPESTGC8 Start Date: 03/21/2018 06:15

Analysis Batch Number: 505006 End Date: 03/21/2018 14:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2018 06:15	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 06:15	1		Rtx-CLP 0.53(mm)
CCVIS 460-505006/2		03/21/2018 06:32	1	8F125839.D	CLP-2 0.53(mm)
CCVIS 460-505006/2		03/21/2018 06:32	1	8F125839.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 07:58	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 07:58	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 08:16	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 08:16	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 08:34	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 08:34	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 08:51	10		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 08:51	10		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 09:09	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 09:09	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 09:26	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 09:26	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 09:43	5		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 09:43	5		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 12:09	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:09	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 12:26	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:26	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 12:44	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 12:44	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:01	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:01	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:19	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:19	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:36	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:36	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 13:54	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 13:54	1		Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:11	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:11	1		Rtx-CLP 0.53(mm)
460-152136-1		03/21/2018 14:28	1	8F125858.D	CLP-2 0.53(mm)
460-152136-1		03/21/2018 14:28	1	8F125858.D	Rtx-CLP 0.53(mm)
ZZZZZ		03/21/2018 14:46	1		CLP-2 0.53(mm)
ZZZZZ		03/21/2018 14:46	1		Rtx-CLP 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504716 Batch Start Date: 03/20/18 08:25 Batch Analyst: Maraon, Alissandra N

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	OP_PCB SP_LVI 00013	OPPSPCBSU_LVI 00014	AnalysisComment
MB 460-504716/1		3510C, 8082A		250 mL	1 mL	7 SU		50 uL	
LCS 460-504716/2		3510C, 8082A		250 mL	1 mL	7 SU	50 uL	50 uL	
LCSD 460-504716/3		3510C, 8082A		250 mL	1 mL	7 SU	50 uL	50 uL	
460-152136-G-1	Recharge Basin	3510C, 8082A	T	250 mL	1 mL	5 SU		50 uL	SPLIT

Batch Notes	
Batch Comment	8082 PCB
Analyst ID - Concentration	am
Equipment ID - Concentration 1	PCB
Exchange Solvent ID	187677 HEXANE
Analyst ID - Extraction	am
Na2SO4 ID	184525
Pipette/Syringe/Dispenser ID	PCB
Prep Solvent ID	191738
Prep Solvent Volume Used	60 mL
Analyst ID - Spike Analyst	am

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504830 Batch Start Date: 03/20/18 14:37 Batch Analyst: Rivera, Rene A

Batch Method: 3546 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP_PCBSP 00036	OPPSTPCBSURR 00011		
MB 460-504830/1		3546, 8082A		15.0000 g	10 mL		50 uL		
LCS 460-504830/2		3546, 8082A		15.0000 g	10 mL	50 uL	50 uL		
460-152046-E-4 MS		3546, 8082A	T	15.0125 g	10 mL	50 uL	50 uL		
460-152046-E-4 MSD		3546, 8082A	T	15.0141 g	10 mL	50 uL	50 uL		
460-152136-E-2	Ash Pit	3546, 8082A	T	15.0126 g	10 mL		50 uL		

Batch Notes	
Balance ID	A1
Batch Comment	PCB-SOIL
Analyst ID - Concentration	RAR
Exchange Solvent ID	187677 (HEXANE) - 133166 (Acetone) - 192637 (MeCl2)
Method/Fraction	8082
Microwave Oven ID	MD4965/5095/1952
Na2SO4 ID	171698 (Silica Sand Lot #148376)
Analyst ID - Spike Analyst	RAR

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

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METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG No.:

Project: Suffolk County Firematics Site

Client Sample ID	Lab Sample ID
Recharge Basin	460-152136-1
Ash Pit	460-152136-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Recharge Basin
Lab Sample ID: 460-152136-1
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG ID.:
Matrix: Water
Date Sampled: 03/16/2018 11:00
Reporting Basis: WET
Date Received: 03/16/2018 20:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	33.0	40.0	15.0	ug/L	J		2	6020A
7440-36-0	Antimony	1.6	2.0	0.62	ug/L	J		2	6020A
7440-38-2	Arsenic	0.77	2.0	0.77	ug/L	U		2	6020A
7440-39-3	Barium	18.3	4.0	1.1	ug/L			2	6020A
7440-41-7	Beryllium	0.26	0.80	0.26	ug/L	U		2	6020A
7440-43-9	Cadmium	0.61	2.0	0.61	ug/L	U		2	6020A
7440-70-2	Calcium	11000	200	67.6	ug/L			2	6020A
7440-47-3	Chromium	1.3	4.0	1.3	ug/L	U		2	6020A
7440-48-4	Cobalt	1.3	4.0	1.3	ug/L	U		2	6020A
7440-50-8	Copper	1.9	4.0	1.9	ug/L	U		2	6020A
7439-89-6	Iron	119	120	45.7	ug/L	J		2	6020A
7439-92-1	Lead	0.37	1.2	0.37	ug/L	U		2	6020A
7439-95-4	Magnesium	1750	200	65.7	ug/L			2	6020A
7439-96-5	Manganese	20.7	8.0	2.7	ug/L			2	6020A
7440-02-0	Nickel	1.3	4.0	1.3	ug/L	U		2	6020A
7440-09-7	Potassium	3230	200	64.9	ug/L			2	6020A
7782-49-2	Selenium	0.69	10.0	0.69	ug/L	U		2	6020A
7440-22-4	Silver	1.4	2.0	1.4	ug/L	U		2	6020A
7440-23-5	Sodium	9810	200	75.7	ug/L			2	6020A
7440-28-0	Thallium	0.24	0.80	0.24	ug/L	U		2	6020A
7440-62-2	Vanadium	1.4	4.0	1.2	ug/L	J		2	6020A
7440-66-6	Zinc	7.8	16.0	5.4	ug/L	J		2	6020A
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: Recharge Basin
Lab Sample ID: 460-152136-1
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG ID.:
Matrix: Water
Date Sampled: 03/16/2018 11:00
Reporting Basis: WET
Date Received: 03/16/2018 20:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15.0	40.0	15.0	ug/L	U		2	6020A
7440-36-0	Antimony	0.62	2.0	0.62	ug/L	U		2	6020A
7440-38-2	Arsenic	0.77	2.0	0.77	ug/L	U		2	6020A
7440-39-3	Barium	16.4	4.0	1.1	ug/L			2	6020A
7440-41-7	Beryllium	0.26	0.80	0.26	ug/L	U		2	6020A
7440-43-9	Cadmium	0.61	2.0	0.61	ug/L	U		2	6020A
7440-70-2	Calcium	10700	200	67.6	ug/L			2	6020A
7440-47-3	Chromium	1.3	4.0	1.3	ug/L	U		2	6020A
7440-48-4	Cobalt	1.3	4.0	1.3	ug/L	U		2	6020A
7440-50-8	Copper	1.9	4.0	1.9	ug/L	U		2	6020A
7439-89-6	Iron	45.7	120	45.7	ug/L	U		2	6020A
7439-92-1	Lead	0.37	1.2	0.37	ug/L	U		2	6020A
7439-95-4	Magnesium	1670	200	65.7	ug/L			2	6020A
7439-96-5	Manganese	2.7	8.0	2.7	ug/L	U		2	6020A
7440-02-0	Nickel	1.3	4.0	1.3	ug/L	U		2	6020A
7440-09-7	Potassium	3060	200	64.9	ug/L			2	6020A
7782-49-2	Selenium	0.69	10.0	0.69	ug/L	U		2	6020A
7440-22-4	Silver	1.4	2.0	1.4	ug/L	U		2	6020A
7440-23-5	Sodium	9310	200	75.7	ug/L			2	6020A
7440-28-0	Thallium	0.24	0.80	0.24	ug/L	U		2	6020A
7440-62-2	Vanadium	1.2	4.0	1.2	ug/L	U		2	6020A
7440-66-6	Zinc	5.4	16.0	5.4	ug/L	U		2	6020A
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Ash Pit
Lab Sample ID: 460-152136-2
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/16/2018 09:45
Reporting Basis: DRY
Date Received: 03/16/2018 20:20
% Solids: 30.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3930	100	20.6	mg/Kg			4	6010C
7440-36-0	Antimony	90.0	10.0	1.2	mg/Kg			4	6010C
7440-38-2	Arsenic	22.6	7.5	1.9	mg/Kg			4	6010C
7440-39-3	Barium	832	100	8.1	mg/Kg			4	6010C
7440-41-7	Beryllium	0.28	1.0	0.12	mg/Kg	J		4	6010C
7440-43-9	Cadmium	2.2	2.0	0.30	mg/Kg			4	6010C
7440-70-2	Calcium	24500	2510	256	mg/Kg			4	6010C
7440-47-3	Chromium	1160	5.0	1.4	mg/Kg			4	6010C
7440-48-4	Cobalt	11.3	25.1	2.9	mg/Kg	J		4	6010C
7440-50-8	Copper	806	12.5	2.8	mg/Kg			4	6010C
7439-89-6	Iron	42200	75.3	13.6	mg/Kg			4	6010C
7439-92-1	Lead	45.2	5.0	1.5	mg/Kg			4	6010C
7439-95-4	Magnesium	2380	2510	193	mg/Kg	J		4	6010C
7439-96-5	Manganese	874	7.5	0.78	mg/Kg			4	6010C
7440-02-0	Nickel	26.5	20.1	1.9	mg/Kg			4	6010C
7440-09-7	Potassium	2900	2510	134	mg/Kg			4	6010C
7782-49-2	Selenium	3.0	10.0	3.0	mg/Kg	U		4	6010C
7440-22-4	Silver	0.91	5.0	0.77	mg/Kg	J		4	6010C
7440-23-5	Sodium	923	2510	193	mg/Kg	J		4	6010C
7440-28-0	Thallium	3.0	10.0	3.0	mg/Kg	U		4	6010C
7440-62-2	Vanadium	4.7	25.1	3.0	mg/Kg	J		4	6010C
7440-66-6	Zinc	5080	15.1	1.3	mg/Kg			4	6010C
7439-97-6	Mercury	0.036	0.055	0.036	mg/Kg	U		1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_CCV_DUO_00165 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00165

Analyte	ICV 460-504569/7 03/19/2018 12:48				CCV 460-504569/20 03/19/2018 13:38				CCV 460-504569/33 03/19/2018 14:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	125000		125000	100	124500		125000	100	126600		125000	101
Antimony	979.3		1000	98	985.3		1000	99	1003		1000	100
Arsenic	2449		2500	98	2457		2500	98	2515		2500	101
Barium	10040		10000	100	10080		10000	101	10250		10000	103
Beryllium	1011		1000	101	1007		1000	101	1019		1000	102
Cadmium	1251		1250	100	1256		1250	100	1280		1250	102
Calcium	125300		125000	100	124500		125000	100	126500		125000	101
Chromium	5056		5000	101	5027		5000	101	5122		5000	102
Cobalt	2499		2500	100	2509		2500	100	2556		2500	102
Copper	12440		12500	100	12350		12500	99	12620		12500	101
Iron	101400		100000	101	100900		100000	101	102500		100000	103
Lead	7520		7500	100	7533		7500	100	7710		7500	103
Magnesium	124600		125000	100	123500		125000	99	126000		125000	101
Manganese	5066		5000	101	5049		5000	101	5106		5000	102
Nickel	2507		2500	100	2518		2500	101	2564		2500	103
Potassium	49720		50000	99	49710		50000	99	50160		50000	100
Selenium	2436		2500	97	2457		2500	98	2515		2500	101
Silver	1237		1250	99	1228		1250	98	1251		1250	100
Sodium	124400		125000	100	124700		125000	100	126500		125000	101
Thallium	2511		2500	100	2515		2500	101	2555		2500	102
Vanadium	2513		2500	101	2507		2500	100	2537		2500	101
Zinc	2518		2500	101	2527		2500	101	2584		2500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_Cal2_BC_00031 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00031

Analyte	ICVL 460-504569/9 03/19/2018 12:55				CCVL 460-504569/22 03/19/2018 13:45				CCVL 460-504569/35 03/19/2018 14:36			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	224.5		200	112	227.5		200	114	222.3		200	111
Antimony	20.93		20.0	105	20.45		20.0	102	20.99		20.0	105
Arsenic	15.04		15.0	100	15.39		15.0	103	13.86	J	15.0	92
Barium	211.4		200	106	209.7		200	105	211.6		200	106
Beryllium	2.08		2.00	104	1.84	J	2.00	92	2.02		2.00	101
Cadmium	4.16		4.00	104	4.16		4.00	104	4.23		4.00	106
Calcium	5134		5000	103	5124		5000	102	5248		5000	105
Chromium	9.80	J	10.0	98	10.10		10.0	101	9.88	J	10.0	99
Cobalt	53.92		50.0	108	53.43		50.0	107	54.32		50.0	109
Copper	24.48	J	25.0	98	24.28	J	25.0	97	25.40		25.0	102
Iron	162.1		150	108	180.1		150	120	172.2		150	115
Lead	9.99	J	10.0	100	11.87		10.0	119	10.05		10.0	101
Magnesium	5165		5000	103	5174		5000	103	5362		5000	107
Manganese	15.87		15.0	106	15.83		15.0	106	16.17		15.0	108
Nickel	43.21		40.0	108	42.69		40.0	107	43.82		40.0	110
Potassium	5038		5000	101	5032		5000	101	5028		5000	101
Selenium	22.67		20.0	113	21.56		20.0	108	19.05	J	20.0	95
Silver	10.19		10.0	102	9.86	J	10.0	99	10.20		10.0	102
Sodium	5038		5000	101	5018		5000	100	5091		5000	102
Thallium	19.69	J	20.0	98	20.42		20.0	102	20.60		20.0	103
Vanadium	53.12		50.0	106	52.05		50.0	104	53.39		50.0	107
Zinc	32.18		30.0	107	32.25		30.0	108	32.48		30.0	108

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_Cal2_BC_00031 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00031

Analyte	CCVL 460-504569/48 03/19/2018 15:26											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	201.3		200	101								
Antimony	20.32		20.0	102								
Arsenic	14.74	J	15.0	98								
Barium	215.5		200	108								
Beryllium	2.01		2.00	101								
Cadmium	4.24		4.00	106								
Calcium	5276		5000	106								
Chromium	9.52	J	10.0	95								
Cobalt	55.22		50.0	110								
Copper	25.90		25.0	104								
Iron	188.8		150	126								
Lead	12.44		10.0	124								
Magnesium	5369		5000	107								
Manganese	16.29		15.0	109								
Nickel	45.03		40.0	113								
Potassium	5045		5000	101								
Selenium	21.38		20.0	107								
Silver	10.26		10.0	103								
Sodium	5116		5000	102								
Thallium	21.12		20.0	106								
Vanadium	54.61		50.0	109								
Zinc	33.17		30.0	111								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_CCV_DUO_00168 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00168

Analyte	ICV 460-505273/7 03/22/2018 12:41				CCV 460-505273/20 03/22/2018 13:33							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	127300		125000	102	116800		125000	93				
Antimony	996.5		1000	100	902.5		1000	90				
Arsenic	2489		2500	100	2283		2500	91				
Barium	10170		10000	102	9288		10000	93				
Beryllium	1028		1000	103	942.3		1000	94				
Cadmium	1266		1250	101	1155		1250	92				
Calcium	128400		125000	103	118100		125000	94				
Chromium	5158		5000	103	4755		5000	95				
Cobalt	2528		2500	101	2305		2500	92				
Copper	12740		12500	102	11700		12500	94				
Iron	103200		100000	103	94840		100000	95				
Lead	7596		7500	101	6929		7500	92				
Magnesium	127500		125000	102	117000		125000	94				
Manganese	5200		5000	104	4785		5000	96				
Nickel	2538		2500	102	2321		2500	93				
Potassium	50860		50000	102	46870		50000	94				
Selenium	2493		2500	100	2286		2500	91				
Silver	1263		1250	101	1157		1250	93				
Sodium	128400		125000	103	118200		125000	95				
Thallium	2552		2500	102	2333		2500	93				
Vanadium	2566		2500	103	2353		2500	94				
Zinc	2539		2500	102	2333		2500	93				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_Cal2_BC_00032 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00032

Analyte	ICVL 460-505273/9 03/22/2018 12:49				CCVL 460-505273/22 03/22/2018 13:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	199.8	J	200	100	185.3	J	200	93				
Antimony	18.27	J	20.0	91	16.89	J	20.0	84				
Arsenic	14.04	J	15.0	94	13.71	J	15.0	91				
Barium	186.8	J	200	93	178.2	J	200	89				
Beryllium	1.93	J	2.00	96	1.84	J	2.00	92				
Cadmium	3.68	J	4.00	92	3.45	J	4.00	86				
Calcium	4716	J	5000	94	4551	J	5000	91				
Chromium	9.83	J	10.0	98	9.56	J	10.0	96				
Cobalt	46.10	J	50.0	92	44.33	J	50.0	89				
Copper	22.96	J	25.0	92	21.79	J	25.0	87				
Iron	151.6		150	101	148.2	J	150	99				
Lead	9.98	J	10.0	100	9.30	J	10.0	93				
Magnesium	4532	J	5000	91	4409	J	5000	88				
Manganese	15.15		15.0	101	14.64	J	15.0	98				
Nickel	37.48	J	40.0	94	36.09	J	40.0	90				
Potassium	4654	J	5000	93	4478	J	5000	90				
Selenium	19.27	J	20.0	96	15.79	J	20.0	79				
Silver	9.10	J	10.0	91	8.75	J	10.0	88				
Sodium	4721	J	5000	94	4512	J	5000	90				
Thallium	21.35		20.0	107	20.54		20.0	103				
Vanadium	47.64	J	50.0	95	46.13	J	50.0	92				
Zinc	28.53	J	30.0	95	27.33	J	30.0	91				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_msICV_00019 Concentration Units: ug/L

CCV Source: ME_msCal4_00055

Analyte	ICV 460-504570/7 03/19/2018 15:24				CCV 460-504570/55 03/19/2018 18:07				CCV 460-504570/68 03/19/2018 18:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	400.6		400	100	508.7		500	102	500.1		500	100
Antimony	42.48		40.0	106	51.28		50.0	103	51.73		50.0	103
Arsenic	39.76		40.0	99	50.64		50.0	101	50.93		50.0	102
Barium	40.40		40.0	101	51.76		50.0	104	52.21		50.0	104
Beryllium	40.36		40.0	101	52.10		50.0	104	52.14		50.0	104
Cadmium	38.59		40.0	96	49.50		50.0	99	49.16		50.0	98
Calcium	3950		4000	99	5155		5000	103	5144		5000	103
Chromium	39.79		40.0	99	48.10		50.0	96	48.11		50.0	96
Cobalt	40.43		40.0	101	48.10		50.0	96	47.46		50.0	95
Copper	40.36		40.0	101	47.78		50.0	96	47.03		50.0	94
Iron	4072		4000	102	4875		5000	97	4864		5000	97
Lead	40.32		40.0	101	50.72		50.0	101	50.81		50.0	102
Magnesium	3938		4000	98	4998		5000	100	4944		5000	99
Manganese	402.7		400	101	493.1		500	99	496.6		500	99
Nickel	40.05		40.0	100	47.65		50.0	95	46.71		50.0	93
Potassium	4004		4000	100	5178		5000	104	5174		5000	103
Selenium	39.19		40.0	98	49.43		50.0	99	49.22		50.0	98
Silver	41.32		40.0	103	49.56		50.0	99	48.77		50.0	98
Sodium	4170		4000	104	5099		5000	102	5069		5000	101
Thallium	7.85		8.00	98	10.11		10.0	101	10.06		10.0	101
Vanadium	39.96		40.0	100	49.03		50.0	98	48.19		50.0	96
Zinc	38.14		40.0	95	47.74		50.0	95	47.19		50.0	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_msICV_00019 Concentration Units: ug/L

CCV Source: ME_msCal4_00055

Analyte	CCV 460-504570/157 03/19/2018 23:59				CCV 460-504570/169 03/20/2018 00:44							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	498.3		500	100	504.4		500	101				
Antimony	51.01		50.0	102	51.56		50.0	103				
Arsenic	50.30		50.0	101	50.11		50.0	100				
Barium	51.55		50.0	103	52.66		50.0	105				
Beryllium	49.98		50.0	100	49.47		50.0	99				
Cadmium	47.29		50.0	95	48.32		50.0	97				
Calcium	5098		5000	102	5152		5000	103				
Chromium	47.53		50.0	95	47.76		50.0	96				
Cobalt	47.80		50.0	96	47.85		50.0	96				
Copper	47.13		50.0	94	47.31		50.0	95				
Iron	4848		5000	97	4908		5000	98				
Lead	50.63		50.0	101	50.62		50.0	101				
Magnesium	4892		5000	98	4985		5000	100				
Manganese	496.1		500	99	498.5		500	100				
Nickel	47.06		50.0	94	46.66		50.0	93				
Potassium	5178		5000	104	5206		5000	104				
Selenium	48.92		50.0	98	48.96		50.0	98				
Silver	47.80		50.0	96	48.11		50.0	96				
Sodium	4936		5000	99	5060		5000	101				
Thallium	10.06		10.0	101	10.00		10.0	100				
Vanadium	48.42		50.0	97	48.45		50.0	97				
Zinc	46.34		50.0	93	46.34		50.0	93				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_msCAL2_00055 Concentration Units: ug/L

CCV Source: ME_msCAL2_00055

Analyte	ICVL 460-504570/9 03/19/2018 15:30				CCVL 460-504570/57 03/19/2018 18:14				CCVL 460-504570/70 03/19/2018 18:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	20.75		20.0	104	22.30		20.0	112	20.34		20.0	102
Antimony	1.01		1.00	101	0.826	J	1.00	83	0.781	J	1.00	78
Arsenic	1.09		1.00	109	1.11		1.00	111	1.08		1.00	108
Barium	2.23		2.00	112	2.23		2.00	111	2.23		2.00	112
Beryllium	0.382	J	0.400	96	0.414		0.400	104	0.390	J	0.400	98
Cadmium	1.09		1.00	109	0.990	J	1.00	99	0.979	J	1.00	98
Calcium	102.4		100	102	109.2		100	109	104.3		100	104
Chromium	1.97	J	2.00	99	1.91	J	2.00	95	1.87	J	2.00	93
Cobalt	2.11		2.00	105	2.03		2.00	101	2.01		2.00	101
Copper	2.03		2.00	102	1.93	J	2.00	96	1.94	J	2.00	97
Iron	63.63		60.0	106	66.66		60.0	111	60.74		60.0	101
Lead	0.598	J	0.600	100	0.656		0.600	109	0.614		0.600	102
Magnesium	102.9		100	103	101.7		100	102	99.15	J	100	99
Manganese	4.32		4.00	108	4.32		4.00	108	4.02		4.00	101
Nickel	2.03		2.00	102	2.04		2.00	102	1.86	J	2.00	93
Potassium	105.0		100	105	115.1		100	115	116.8		100	117
Selenium	4.87	J	5.00	97	4.92	J	5.00	98	4.85	J	5.00	97
Silver	1.12		1.00	112	0.995	J	1.00	100	0.992	J	1.00	99
Sodium	100.6		100	101	110.9		100	111	100.9		100	101
Thallium	0.402		0.400	101	0.416		0.400	104	0.413		0.400	103
Vanadium	2.10		2.00	105	2.03		2.00	102	1.96	J	2.00	98
Zinc	7.72	J	8.00	96	7.41	J	8.00	93	7.74	J	8.00	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_msCAL2_00055 Concentration Units: ug/L

CCV Source: ME_msCAL2_00055

Analyte	CCVL 460-504570/159 03/20/2018 00:06				CCVL 460-504570/171 03/20/2018 00:51							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	20.96		20.0	105	21.24		20.0	106				
Antimony	0.789	J	1.00	79	0.715	J	1.00	72				
Arsenic	1.07		1.00	107	1.08		1.00	108				
Barium	2.26		2.00	113	2.17		2.00	109				
Beryllium	0.363	J	0.400	91	0.383	J	0.400	96				
Cadmium	0.915	J	1.00	92	0.957	J	1.00	96				
Calcium	109.3		100	109	104.8		100	105				
Chromium	1.95	J	2.00	97	1.89	J	2.00	95				
Cobalt	1.96	J	2.00	98	1.94	J	2.00	97				
Copper	1.83	J	2.00	92	1.78	J	2.00	89				
Iron	61.23		60.0	102	61.16		60.0	102				
Lead	0.621		0.600	104	0.598	J	0.600	100				
Magnesium	99.18	J	100	99	97.83	J	100	98				
Manganese	4.26		4.00	107	4.11		4.00	103				
Nickel	1.97	J	2.00	99	1.90	J	2.00	95				
Potassium	117.4		100	117	120.0		100	120				
Selenium	4.85	J	5.00	97	4.90	J	5.00	98				
Silver	0.970	J	1.00	97	0.898	J	1.00	90				
Sodium	97.53	J	100	98	96.32	J	100	96				
Thallium	0.402		0.400	101	0.404		0.400	101				
Vanadium	2.05		2.00	103	2.01		2.00	100				
Zinc	6.97	J	8.00	87	7.39	J	8.00	92				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_DQCS-INT_02693 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02965

Analyte	ICV 460-504533/31-A 03/19/2018 14:29				CCV 460-504533/33-A 03/19/2018 14:38				CCV 460-504533/33-A 03/19/2018 14:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.83		5.00	97	4.86		5.00	97	4.81		5.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_DQCS-INT_02693 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02965

Analyte	CCV 460-504533/33-A 03/19/2018 15:19				CCV 460-504533/33-A 03/19/2018 15:40				CCV 460-504533/33-A 03/19/2018 16:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.93		5.00	99	4.97		5.00	99	4.96		5.00	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_DQCS-INT_02693 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02965

Analyte	ICV 460-504528/17 03/19/2018 08:43				CCV 460-504528/43 03/19/2018 09:30				CCV 460-504528/55 03/19/2018 09:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.96		5.00	99	5.09		5.00	102	4.97		5.00	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICV Source: ME_DQCS-INT_02693 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02965

Analyte	CCV 460-504528/67 03/19/2018 10:12				CCV 460-504528/79 03/19/2018 10:33							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.09		5.00	102	4.94		5.00	99				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN6

Lab Sample ID: CRI 460-504582/17 Concentration Units: ug/L

CRQL Check Standard Source:

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury		0.227			

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-504569/8 03/19/2018 12:51		CCB 460-504569/21 03/19/2018 13:41		CCB 460-504569/34 03/19/2018 14:31		CCB 460-504569/47 03/19/2018 15:22	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	91.1	U	91.1	U	91.1	U	91.1	U
Antimony	20.0	7.4	U	7.4	U	7.4	U		
Arsenic	15.0	4.4	U	4.4	U	4.4	U		
Barium	200	8.6	U	8.6	U	8.6	U		
Beryllium	2.0	0.97	U	0.97	U	0.97	U	0.97	U
Cadmium	4.0	1.8	U	1.8	U	1.8	U		
Calcium	5000	354	U	354	U	354	U		
Chromium	10.0	3.3	U	3.3	U	3.3	U		
Cobalt	50.0	3.1	U	3.1	U	3.1	U		
Copper	25.0	8.1	U	8.1	U	8.1	U		
Iron	150	92.1	U	92.1	U	92.1	U		
Lead	10.0	4.1	U	4.1	U	4.1	U		
Magnesium	5000	311	U	311	U	311	U		
Manganese	15.0	3.1	U	3.1	U	3.1	U		
Nickel	40.0	9.0	U	9.0	U	9.0	U		
Potassium	5000	167	U	167	U	167	U	167	U
Selenium	20.0	4.4	U	4.4	U	4.4	U		
Silver	10.0	1.8	U	1.8	U	1.8	U		
Sodium	5000	407	U	407	U	407	U	407	U
Thallium	20.0	7.1	U	7.1	U	7.1	U		
Vanadium	50.0	2.5	U	2.5	U	2.5	U		
Zinc	30.0	9.0	U	9.0	U	9.0	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-505273/8 03/22/2018 12:45		CCB 460-505273/21 03/22/2018 13:36					
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	91.1	U	91.1	U				
Antimony	20.0	7.4	U	7.4	U				
Arsenic	15.0	4.4	U	4.4	U				
Barium	200	8.6	U	8.6	U				
Beryllium	2.0	0.97	U	0.97	U				
Cadmium	4.0	1.8	U	1.8	U				
Calcium	5000	354	U	354	U				
Chromium	10.0	3.3	U	3.3	U				
Cobalt	50.0	3.1	U	3.1	U				
Copper	25.0	8.1	U	8.1	U				
Iron	150	92.1	U	92.1	U				
Lead	10.0	4.1	U	4.1	U				
Magnesium	5000	311	U	311	U				
Manganese	15.0	3.1	U	3.1	U				
Nickel	40.0	9.0	U	9.0	U				
Potassium	5000	167	U	167	U				
Selenium	20.0	4.4	U	4.4	U				
Silver	10.0	1.8	U	1.8	U				
Sodium	5000	407	U	407	U				
Thallium	20.0	7.1	U	7.1	U				
Vanadium	50.0	2.5	U	2.5	U				
Zinc	30.0	9.0	U	9.0	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-504570/8 03/19/2018 15:27		CCB 460-504570/56 03/19/2018 18:11		CCB 460-504570/69 03/19/2018 18:54		CCB 460-504570/158 03/20/2018 00:02	
		Found	C	Found	C	Found	C	Found	C
Aluminum	20.0	7.5	U	7.5	U	7.5	U	7.5	U
Antimony	1.0	0.31	U	0.31	U	0.31	U	0.31	U
Arsenic	1.0	0.38	U	0.38	U	0.38	U	0.38	U
Barium	2.0	0.56	U	0.56	U	0.56	U	0.56	U
Beryllium	0.40	0.13	U	0.13	U	0.13	U	0.13	U
Cadmium	1.0	0.31	U	0.31	U	0.31	U	0.31	U
Calcium	100	33.8	U	33.8	U	33.8	U	33.8	U
Chromium	2.0	0.66	U	0.66	U	0.66	U	0.66	U
Cobalt	2.0	0.64	U	0.64	U	0.64	U	0.64	U
Copper	2.0	0.95	U	0.95	U	0.95	U	0.95	U
Iron	60.0	22.8	U	22.8	U	22.8	U	22.8	U
Lead	0.60	0.19	U	0.19	U	0.19	U	0.19	U
Magnesium	100	32.9	U	32.9	U	32.9	U	32.9	U
Manganese	4.0	1.3	U	1.3	U	1.3	U	1.3	U
Nickel	2.0	0.65	U	0.65	U	0.65	U	0.65	U
Potassium	100	32.4	U	32.4	U	32.4	U	32.4	U
Selenium	5.0	0.35	U	0.35	U	0.35	U	0.35	U
Silver	1.0	0.68	U	0.68	U	0.68	U	0.68	U
Sodium	100	37.8	U	37.8	U	37.8	U	37.8	U
Thallium	0.40	0.12	U	0.12	U	0.12	U	0.12	U
Vanadium	2.0	0.59	U	0.59	U	0.59	U	0.59	U
Zinc	8.0	2.7	U	2.7	U	2.7	U	2.7	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 460-504570/170 03/20/2018 00:48							
		Found	C	Found	C	Found	C	Found	C
Aluminum	20.0	7.5	U						
Antimony	1.0	0.31	U						
Arsenic	1.0	0.38	U						
Barium	2.0	0.56	U						
Beryllium	0.40	0.13	U						
Cadmium	1.0	0.31	U						
Calcium	100	33.8	U						
Chromium	2.0	0.66	U						
Cobalt	2.0	0.64	U						
Copper	2.0	0.95	U						
Iron	60.0	22.8	U						
Lead	0.60	0.19	U						
Magnesium	100	32.9	U						
Manganese	4.0	1.3	U						
Nickel	2.0	0.65	U						
Potassium	100	32.4	U						
Selenium	5.0	0.35	U						
Silver	1.0	0.68	U						
Sodium	100	37.8	U						
Thallium	0.40	0.12	U						
Vanadium	2.0	0.59	U						
Zinc	8.0	2.7	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-504582/16 03/19/2018 14:31		CCB 460-504582/21 03/19/2018 14:39		CCB 460-504582/33 03/19/2018 15:00		CCB 460-504582/45 03/19/2018 15:21	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U	0.17	U	0.17	U	0.17	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 460-504582/57 03/19/2018 15:42		CCB 460-504582/69 03/19/2018 16:02					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U	0.17	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-504528/18 03/19/2018 08:45		CCB 460-504528/44 03/19/2018 09:31		CCB 460-504528/56 03/19/2018 09:53		CCB 460-504528/68 03/19/2018 10:14	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U	0.17	U	0.17	U	0.17	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 460-504528/80 03/19/2018 10:35							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 460-504339/1-A ^2

Instrument Code: ICP4 Batch No.: 504569

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	4.1	U		6010C
7440-36-0	Antimony	0.24	U		6010C
7440-38-2	Arsenic	0.37	U		6010C
7440-39-3	Barium	1.6	U		6010C
7440-41-7	Beryllium	0.023	U		6010C
7440-43-9	Cadmium	0.060	U		6010C
7440-70-2	Calcium	51.0	U		6010C
7440-47-3	Chromium	0.28	U		6010C
7440-48-4	Cobalt	0.57	U		6010C
7440-50-8	Copper	0.57	U		6010C
7439-89-6	Iron	2.7	U		6010C
7439-92-1	Lead	0.30	U		6010C
7439-95-4	Magnesium	38.6	U		6010C
7439-96-5	Manganese	0.16	U		6010C
7440-02-0	Nickel	0.38	U		6010C
7440-09-7	Potassium	26.6	U		6010C
7782-49-2	Selenium	0.61	U		6010C
7440-22-4	Silver	0.15	U		6010C
7440-23-5	Sodium	38.5	U		6010C
7440-28-0	Thallium	0.59	U		6010C
7440-62-2	Vanadium	0.60	U		6010C
7440-66-6	Zinc	0.26	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-504338/1-A ^2

Instrument Code: ICPMS2 Batch No.: 504570

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	15.0	U		6020A
7440-36-0	Antimony	0.62	U		6020A
7440-38-2	Arsenic	0.77	U		6020A
7440-39-3	Barium	1.1	U		6020A
7440-41-7	Beryllium	0.26	U		6020A
7440-43-9	Cadmium	0.61	U		6020A
7440-70-2	Calcium	67.6	U		6020A
7440-47-3	Chromium	1.3	U		6020A
7440-48-4	Cobalt	1.3	U		6020A
7440-50-8	Copper	1.9	U		6020A
7439-89-6	Iron	45.7	U		6020A
7439-92-1	Lead	0.37	U		6020A
7439-95-4	Magnesium	65.7	U		6020A
7439-96-5	Manganese	2.7	U		6020A
7440-02-0	Nickel	1.3	U		6020A
7440-09-7	Potassium	64.9	U		6020A
7782-49-2	Selenium	0.69	U		6020A
7440-22-4	Silver	1.4	U		6020A
7440-23-5	Sodium	75.7	U		6020A
7440-28-0	Thallium	0.24	U		6020A
7440-62-2	Vanadium	1.2	U		6020A
7440-66-6	Zinc	5.4	U		6020A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-504395/1-B ^2

Instrument Code: ICPMS2 Batch No.: 504570

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	15.0	U		6020A
7440-36-0	Antimony	0.62	U		6020A
7440-38-2	Arsenic	0.77	U		6020A
7440-39-3	Barium	1.1	U		6020A
7440-41-7	Beryllium	0.26	U		6020A
7440-43-9	Cadmium	0.61	U		6020A
7440-70-2	Calcium	67.6	U		6020A
7440-47-3	Chromium	1.3	U		6020A
7440-48-4	Cobalt	1.3	U		6020A
7440-50-8	Copper	1.9	U		6020A
7439-89-6	Iron	45.7	U		6020A
7439-92-1	Lead	0.37	U		6020A
7439-95-4	Magnesium	65.7	U		6020A
7439-96-5	Manganese	2.7	U		6020A
7440-02-0	Nickel	1.3	U		6020A
7440-09-7	Potassium	64.9	U		6020A
7782-49-2	Selenium	0.69	U		6020A
7440-22-4	Silver	1.4	U		6020A
7440-23-5	Sodium	75.7	U		6020A
7440-28-0	Thallium	0.24	U		6020A
7440-62-2	Vanadium	1.2	U		6020A
7440-66-6	Zinc	5.4	U		6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-504533/1-A

Instrument Code: LEEMAN6 Batch No.: 504582

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.17	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-504532/1-B

Instrument Code: LEEMAN6 Batch No.: 504582

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.17	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 460-504419/1-A

Instrument Code: LEEMAN7 Batch No.: 504528

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.011	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSA 460-504569/10 Instrument ID: ICP4

Lab File ID: 504389.asc ICS Source: ME_ICSA_Duo_00080

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**492500**	**99**
Antimony		**-0.486**	
Arsenic		**-0.645**	
Barium		**-0.310**	
Beryllium		**-0.0784**	
Cadmium		**-0.207**	
Calcium	**500000**	**510400**	**102**
Chromium		**-0.721**	
Cobalt		**-3.88**	
Copper		**-6.49**	
Iron	**200000**	**198400**	**99**
Lead		**-1.29**	
Magnesium	**500000**	**522000**	**104**
Manganese		**-2.06**	
Nickel		**-0.492**	
Potassium		**30.3**	
Selenium		**-3.67**	
Silver		**-0.248**	
Sodium		**63.8**	
Thallium		**-1.93**	
Vanadium		**4.83**	
Zinc		**3.08**	
Boron		*-30.2*	
Molybdenum		*-1.42*	
Strontium		*-11.1*	
Tin		*2.25*	
Titanium		*0.0515*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSAB 460-504569/11 Instrument ID: ICP4

Lab File ID: 504389.asc ICS Source: ME_ICSAB_DUO_00103

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500000**	**508900**	**102**
Antimony	**100**	**100**	**100**
Arsenic	**100**	**93.2**	**93**
Barium	**100**	**103**	**103**
Beryllium	**100**	**103**	**103**
Cadmium	**100**	**98.6**	**99**
Calcium	**500000**	**527800**	**106**
Chromium	**100**	**108**	**108**
Cobalt	**100**	**96.2**	**96**
Copper	**100**	**105**	**105**
Iron	**200000**	**205500**	**103**
Lead	**100**	**97.4**	**97**
Magnesium	**500000**	**546500**	**109**
Manganese	**100**	**104**	**104**
Nickel	**100**	**97.1**	**97**
Potassium	**10000**	**10680**	**107**
Selenium	**100**	**95.8**	**96**
Silver	**100**	**110**	**110**
Sodium	**10000**	**10630**	**106**
Thallium	**100**	**87.3**	**87**
Vanadium	**100**	**113**	**113**
Zinc	**100**	**103**	**103**
Molybdenum	*100*	*101*	*101*
Strontium	*100*	*91.5*	*92*
Tin	*100*	*105*	*105*
Titanium	*100*	*112*	*112*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSA 460-505273/10 Instrument ID: ICP5

Lab File ID: 505200D1.asc ICS Source: ME_ICSA_Duo_00081

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**491800**	**98**
Antimony		**-1.77**	
Arsenic		**-0.357**	
Barium		**-1.27**	
Beryllium		**0.0638**	
Cadmium		**-0.443**	
Calcium	**500000**	**495000**	**99**
Chromium		**-1.04**	
Cobalt		**-2.99**	
Copper		**-0.182**	
Iron	**200000**	**194200**	**97**
Lead		**3.20**	
Magnesium	**500000**	**502000**	**100**
Manganese		**1.24**	
Nickel		**-1.83**	
Potassium		**-45.6**	
Selenium		**-3.80**	
Silver		**-2.28**	
Sodium		**-22.4**	
Thallium		**-0.577**	
Vanadium		**-1.66**	
Zinc		**-1.79**	
Boron		*4.54*	
Molybdenum		*1.36*	
Strontium		*-1.24*	
Tin		*-0.586*	
Titanium		*-3.30*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSAB 460-505273/11 Instrument ID: ICP5

Lab File ID: 505200D1.asc ICS Source: ME_ICSAB_DUO_00100

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500000**	**480000**	**96**
Antimony	**100**	**89.0**	**89**
Arsenic	**100**	**92.2**	**92**
Barium	**100**	**92.8**	**93**
Beryllium	**100**	**98.3**	**98**
Cadmium	**100**	**89.1**	**89**
Calcium	**500000**	**477600**	**96**
Chromium	**100**	**97.2**	**97**
Cobalt	**100**	**87.1**	**87**
Copper	**100**	**104**	**104**
Iron	**200000**	**188100**	**94**
Lead	**100**	**92.4**	**92**
Magnesium	**500000**	**481900**	**96**
Manganese	**100**	**101**	**101**
Nickel	**100**	**87.4**	**87**
Potassium	**10000**	**9923**	**99**
Selenium	**100**	**86.9**	**87**
Silver	**100**	**98.2**	**98**
Sodium	**10000**	**10070**	**101**
Thallium	**100**	**92.3**	**92**
Vanadium	**100**	**96.8**	**97**
Zinc	**100**	**86.3**	**86**
Boron	*100*	*84.8*	*85*
Molybdenum	*100*	*93.0*	*93*
Strontium	*100*	*96.3*	*96*
Tin	*100*	*90.0*	*90*
Titanium	*100*	*98.7*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSA 460-504570/11 Instrument ID: ICPMS2

Lab File ID: 014SMPL.D ICS Source: ME_ICSA_ms_00499

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**50000**	**49292**	**99**
Antimony		**0.305**	
Arsenic		**0.0240**	
Barium		**0.101**	
Beryllium		**-0.0180**	
Cadmium		**0.634**	
Calcium	**150000**	**145545**	**97**
Chromium		**1.22**	
Cobalt		**-0.0010**	
Copper		**0.335**	
Iron	**125000**	**116796**	**93**
Lead		**0.276**	
Magnesium	**50000**	**45705**	**91**
Manganese		**0.831**	
Nickel		**0.789**	
Potassium	**50000**	**46591**	**93**
Selenium		**0.126**	
Silver		**0.0750**	
Sodium	**125000**	**118399**	**95**
Thallium		**0.0040**	
Vanadium		**0.0660**	
Zinc		**1.35**	
Boron		*0.315*	
Molybdenum	*1000*	*995*	*99*
Strontium		*0.676*	
Tin		*0.223*	
Titanium	*1000*	*1030*	*103*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Lab Sample ID: ICSAB 460-504570/12 Instrument ID: ICPMS2

Lab File ID: 015SMPL.D ICS Source: ME_ICSAB_ms_00343

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**50000**	**50248**	**100**
Antimony		**0.200**	
Arsenic	**100**	**111**	**111**
Barium		**0.155**	
Beryllium		**-0.0180**	
Cadmium	**100**	**101**	**101**
Calcium	**150000**	**149588**	**100**
Chromium	**200**	**204**	**102**
Cobalt	**200**	**200**	**100**
Copper	**200**	**195**	**97**
Iron	**125000**	**119477**	**96**
Lead		**0.291**	
Magnesium	**50000**	**46281**	**93**
Manganese	**200**	**204**	**102**
Nickel	**200**	**197**	**98**
Potassium	**50000**	**47966**	**96**
Selenium	**100**	**109**	**109**
Silver	**200**	**178**	**89**
Sodium	**125000**	**119885**	**96**
Thallium		**0.0050**	
Vanadium	**200**	**210**	**105**
Zinc	**100**	**97.2**	**97**
Boron		*-0.365*	
Molybdenum	*1000*	*1015*	*102*
Strontium		*0.650*	
Tin		*0.209*	
Titanium	*1000*	*1055*	*105*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Recharge Basin MS
Lab ID: 460-152136-1 MS
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	2576		33.0	J	2500	102	75-125		6020A
Antimony	28.89		1.6	J	25.0	109	75-125		6020A
Arsenic	52.10		0.77	U	50.0	104	75-125		6020A
Barium	72.05		18.3		50.0	107	75-125		6020A
Beryllium	28.76		0.26	U	25.0	115	75-125		6020A
Cadmium	25.50		0.61	U	25.0	102	75-125		6020A
Calcium	13830		11000		2500	111	75-125	4	6020A
Chromium	50.60		1.3	U	50.0	101	75-125		6020A
Cobalt	25.01		1.3	U	25.0	100	75-125		6020A
Copper	49.92		1.9	U	50.0	100	75-125		6020A
Iron	2752		119	J	2500	105	75-125		6020A
Lead	26.99		0.37	U	25.0	108	75-125		6020A
Magnesium	4244		1750		2500	100	75-125		6020A
Manganese	282.5		20.7		250	105	75-125		6020A
Nickel	49.48		1.3	U	50.0	99	75-125		6020A
Potassium	5882		3230		2500	106	75-125		6020A
Selenium	50.26		0.69	U	50.0	101	75-125		6020A
Silver	23.49		1.4	U	25.0	94	75-125		6020A
Sodium	12370		9810		2500	103	75-125		6020A
Thallium	20.87		0.24	U	20.0	104	75-125		6020A
Vanadium	50.92		1.4	J	50.0	99	75-125		6020A
Zinc	248.3		7.8	J	250	96	75-125		6020A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: Recharge Basin MS
Lab ID: 460-152136-1 MS
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C		Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	997.4			15.0	U	1000	100	75-125		6020A
Antimony	8.45			0.62	U	10.0	85	75-125		6020A
Arsenic	19.35			0.77	U	20.0	97	75-125		6020A
Barium	37.72			16.4		20.0	107	75-125		6020A
Beryllium	9.47			0.26	U	10.0	95	75-125		6020A
Cadmium	9.24			0.61	U	10.0	92	75-125		6020A
Calcium	11670			10700		1000	95	75-125	4	6020A
Chromium	18.78			1.3	U	20.0	94	75-125		6020A
Cobalt	9.46			1.3	U	10.0	95	75-125		6020A
Copper	19.22			1.9	U	20.0	96	75-125		6020A
Iron	988.8			45.7	U	1000	99	75-125		6020A
Lead	10.27			0.37	U	10.0	103	75-125		6020A
Magnesium	2578			1670		1000	91	75-125		6020A
Manganese	98.42			2.7	U	100	98	75-125		6020A
Nickel	18.58			1.3	U	20.0	93	75-125		6020A
Potassium	4050			3060		1000	99	75-125		6020A
Selenium	18.63			0.69	U	20.0	93	75-125		6020A
Silver	9.04			1.4	U	10.0	90	75-125		6020A
Sodium	10190			9310		1000	88	75-125	4	6020A
Thallium	7.81			0.24	U	8.00	98	75-125		6020A
Vanadium	19.49			1.2	U	20.0	97	75-125		6020A
Zinc	96.29			5.4	U	100	96	75-125		6020A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: | Lab ID: 460-152163-C-1-C MS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 100.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	11300		11900		152	-414	75-125	4	6010C
Antimony	1059		1210		37.9	-398	75-125	4	6010C
Arsenic	583.7		455		152	85	75-125		6010C
Barium	2265		1940		152	215	75-125	4	6010C
Beryllium	4.78		1.1		3.79	96	75-125		6010C
Cadmium	36.78		34.9		3.79	50	75-125	4	6010C
Calcium	135600		144000		1520	-524	75-125	4	6010C
Chromium	618.9		650		15.2	-202	75-125	4	6010C
Cobalt	140.8		109		37.9	85	75-125		6010C
Copper	3057		3240		18.9	-947	75-125	4	6010C
Iron	259100		277000		75.8	-23901	75-125	4	6010C
Magnesium	24100		24300		1520	-11	75-125	4	6010C
Manganese	1628		1710		37.9	-205	75-125	4	6010C
Nickel	409.1		390		37.9	52	75-125	4	6010C
Potassium	3374		2020	J	1520	90	75-125		6010C
Selenium	160.0		14.7		152	96	75-125		6010C
Silver	37.95		39.3		3.79	-36	75-125	4	6010C
Sodium	30000		30400		1520	-27	75-125	4	6010C
Thallium	142.3		2.4	U	152	94	75-125		6010C
Vanadium	109.5		76.4		37.9	87	75-125		6010C
Zinc	2618		2720		37.9	-264	75-125	4	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-152135-D-1-C MS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 80.8

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.134		0.032		0.0952	108	75-125		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-151771-D-9-D MS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.885		0.17	U	1.00	89	75-125		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 460-151962-E-5-D MS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.823		0.17	U	1.00	82	75-125		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Recharge Basin PDS | Lab ID: 460-152136-1 PDS

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

Matrix: Water | Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	996.3		33.0	J	1000	96	80-120		6020A
Antimony	11.47		1.6	J	10.0	99	80-120		6020A
Arsenic	19.84		0.77	U	20.0	99	80-120		6020A
Barium	38.78		18.3		20.0	102	80-120		6020A
Beryllium	11.36		0.26	U	10.0	114	80-120		6020A
Cadmium	9.66		0.61	U	10.0	97	80-120		6020A
Calcium	12110		11000		1000	NC	80-120		6020A
Chromium	19.41		1.3	U	20.0	97	80-120		6020A
Cobalt	9.37		1.3	U	10.0	94	80-120		6020A
Copper	20.24		1.9	U	20.0	101	80-120		6020A
Iron	1114		119	J	1000	99	80-120		6020A
Lead	10.18		0.37	U	10.0	102	80-120		6020A
Magnesium	2685		1750		1000	93	80-120		6020A
Manganese	119.8		20.7		100	99	80-120		6020A
Nickel	18.48		1.3	U	20.0	92	80-120		6020A
Potassium	4235		3230		1000	100	80-120		6020A
Selenium	18.91		0.69	U	20.0	95	80-120		6020A
Silver	10.87		1.4	U	10.0	109	80-120		6020A
Sodium	10610		9810		1000	80	80-120		6020A
Thallium	7.76		0.24	U	8.00	97	80-120		6020A
Vanadium	20.15		1.4	J	20.0	94	80-120		6020A
Zinc	98.89		7.8	J	100	91	80-120		6020A

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-152163-C-1-A PDS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	12390		11900		813	NC	80-120		6010C
Antimony	1413		1210		203	100	80-120		6010C
Arsenic	1349		455		813	110	80-120		6010C
Barium	2820		1940		813	108	80-120		6010C
Beryllium	23.44		1.1		20.3	110	80-120		6010C
Cadmium	56.59		34.9		20.3	107	80-120		6010C
Calcium	149200		144000		8130	NC	80-120		6010C
Chromium	724.0		650		81.3	92	80-120		6010C
Cobalt	336.3		109		203	112	80-120		6010C
Copper	3283		3240		102	NC	80-120		6010C
Iron	270600		277000		407	NC	80-120		6010C
Magnesium	32790		24300		8130	105	80-120		6010C
Manganese	1876		1710		203	83	80-120		6010C
Nickel	604.5		390		203	106	80-120		6010C
Potassium	10890		2020	J	8130	109	80-120		6010C
Selenium	905.3		14.7		813	110	80-120		6010C
Silver	60.65		39.3		20.3	105	80-120		6010C
Sodium	38350		30400		8130	98	80-120		6010C
Thallium	896.3		2.4	U	813	110	80-120		6010C
Vanadium	303.5		76.4		203	112	80-120		6010C
Zinc	2928		2720		203	NC	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: Recharge Basin DU | Lab ID: 460-152136-1 DU

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	40.0	33.0	J	31.08	J	6		6020A
Antimony	2.0	1.6	J	1.62	J	1		6020A
Arsenic	2.0	0.77	U	0.77	U	NC		6020A
Barium	4.0	18.3		17.37		5		6020A
Beryllium	0.80	0.26	U	0.26	U	NC		6020A
Cadmium	2.0	0.61	U	0.61	U	NC		6020A
Calcium	200	11000		10610		4		6020A
Chromium	4.0	1.3	U	1.3	U	NC		6020A
Cobalt	4.0	1.3	U	1.3	U	NC		6020A
Copper	4.0	1.9	U	1.9	U	NC		6020A
Iron	120	119	J	112.9	J	5		6020A
Lead	1.2	0.37	U	0.37	U	NC		6020A
Magnesium	200	1750		1709		2		6020A
Manganese	8.0	20.7		19.83		4		6020A
Nickel	4.0	1.3	U	1.3	U	NC		6020A
Potassium	200	3230		3119		4		6020A
Selenium	10.0	0.69	U	0.69	U	NC		6020A
Silver	2.0	1.4	U	1.4	U	NC		6020A
Sodium	200	9810		9475		3		6020A
Thallium	0.80	0.24	U	0.24	U	NC		6020A
Vanadium	4.0	1.4	J	1.50	J	5		6020A
Zinc	16.0	7.8	J	6.41	J	20		6020A

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

FORM VI-IN

6-IN
DUPLICATES
METALS - DISSOLVED

Client ID: Recharge Basin DU | Lab ID: 460-152136-1 DU

Lab Name: TestAmerica Edison | Job No.: 460-152136-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	40.0	15.0	U	15.0	U	NC		6020A
Antimony	2.0	0.62	U	0.62	U	NC		6020A
Arsenic	2.0	0.77	U	0.77	U	NC		6020A
Barium	4.0	16.4		16.83		3		6020A
Beryllium	0.80	0.26	U	0.26	U	NC		6020A
Cadmium	2.0	0.61	U	0.61	U	NC		6020A
Calcium	200	10700		10670		0.5		6020A
Chromium	4.0	1.3	U	1.3	U	NC		6020A
Cobalt	4.0	1.3	U	1.3	U	NC		6020A
Copper	4.0	1.9	U	1.9	U	NC		6020A
Iron	120	45.7	U	45.7	U	NC		6020A
Lead	1.2	0.37	U	0.37	U	NC		6020A
Magnesium	200	1670		1655		0.8		6020A
Manganese	8.0	2.7	U	2.7	U	NC		6020A
Nickel	4.0	1.3	U	1.3	U	NC		6020A
Potassium	200	3060		3046		0.6		6020A
Selenium	10.0	0.69	U	0.69	U	NC		6020A
Silver	2.0	1.4	U	1.4	U	NC		6020A
Sodium	200	9310		9253		0.6		6020A
Thallium	0.80	0.24	U	0.24	U	NC		6020A
Vanadium	4.0	1.2	U	1.2	U	NC		6020A
Zinc	16.0	5.4	U	5.4	U	NC		6020A

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-152163-C-1-B DU

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	76.9	11900		11210		6		6010C
Antimony	7.7	1210		1125		7		6010C
Arsenic	5.8	455		426.5		6		6010C
Barium	76.9	1940		1808		7		6010C
Beryllium	0.77	1.1		1.08		6		6010C
Cadmium	1.5	34.9		32.26		8		6010C
Calcium	1920	144000		135000		6		6010C
Chromium	3.8	650		608.5		7		6010C
Cobalt	19.2	109		101.2		7		6010C
Copper	9.6	3240		3026		7		6010C
Iron	57.7	277000		260200		6		6010C
Magnesium	1920	24300		22780		6		6010C
Manganese	5.8	1710		1603		6		6010C
Nickel	15.4	390		363.1		7		6010C
Potassium	1920	2020	J	1895	J	6		6010C
Selenium	7.7	14.7		13.32		10		6010C
Silver	3.8	39.3		36.88		6		6010C
Sodium	1920	30400		28640		6		6010C
Thallium	7.7	2.4	U	2.3	U	NC		6010C
Vanadium	19.2	76.4		72.27		6		6010C
Zinc	11.5	2720		2538		7		6010C

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-152135-D-1-B DU

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

% Solids for Sample: 80.8 % Solids for Duplicate: 80.8

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.019	0.032		0.0350		10		7471B

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-151771-D-9-C DU

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.17	U	0.17	U	NC		7470A

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

FORM VI-IN

6-IN
DUPLICATES
METALS - DISSOLVED

Client ID: Lab ID: 460-151962-E-5-C DU

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.17	U	0.17	U	NC		7470A

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

FORM VI-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-504339/2-A

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Solid LCS Source: ME_LCSS_97_00007

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8000	6604		82.5	47.4	152.5		6010C
Antimony	65.1	47.03		72.2	0.2	212.0		6010C
Arsenic	147	134.7		91.7	83.0	117.0		6010C
Barium	314	321.6		102.4	82.2	117.8		6010C
Beryllium	53.4	56.04		104.9	82.8	117.2		6010C
Cadmium	193	205.7		106.6	82.4	117.6		6010C
Calcium	4580	4545		99.2	80.8	119.0		6010C
Chromium	82.6	78.71		95.3	81.8	118.2		6010C
Cobalt	81.3	92.83		114.2	83.4	116.6		6010C
Copper	171	163.3		95.5	83.6	116.4		6010C
Iron	14100	11720		83.1	60.4	139.7		6010C
Lead	92.3	88.89		96.3	82.8	117.0		6010C
Magnesium	2240	2038		91.0	75.4	125.0		6010C
Manganese	222	227.7		102.6	82.0	118.0		6010C
Nickel	137	156.1		113.9	82.5	118.2		6010C
Potassium	2000	1758		87.9	69.5	130.5		6010C
Selenium	187	189.0		101.1	79.1	121.4		6010C
Silver	40.7	36.95		90.8	79.6	120.4		6010C
Sodium	216	211.3	J	97.8	72.2	127.8		6010C
Thallium	153	162.2		106.0	81.0	119.0		6010C
Vanadium	86.6	92.20		106.5	77.6	122.4		6010C
Zinc	189	205.3		108.6	79.9	120.1		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-504338/2-A ^2

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Water LCS Source: ME_ipmsSPK_00031

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	2500	2468		99	80	120		6020A
Antimony	25.0	27.75		111	80	120		6020A
Arsenic	50.0	51.36		103	80	120		6020A
Barium	50.0	52.91		106	80	120		6020A
Beryllium	25.0	27.70		111	80	120		6020A
Cadmium	25.0	23.76		95	80	120		6020A
Calcium	2500	2622		105	80	120		6020A
Chromium	50.0	48.99		98	80	120		6020A
Cobalt	25.0	24.14		97	80	120		6020A
Copper	50.0	48.31		97	80	120		6020A
Iron	2500	2565		103	80	120		6020A
Lead	25.0	26.28		105	80	120		6020A
Magnesium	2500	2404		96	80	120		6020A
Manganese	250	254.8		102	80	120		6020A
Nickel	50.0	47.36		95	80	120		6020A
Potassium	2500	2590		104	80	120		6020A
Selenium	50.0	50.32		101	80	120		6020A
Silver	25.0	22.87		91	80	120		6020A
Sodium	2500	2427		97	80	120		6020A
Thallium	20.0	20.18		101	80	120		6020A
Vanadium	50.0	49.14		98	80	120		6020A
Zinc	250	234.7		94	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-504514/2-A ^2

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Water LCS Source: ME_ipmsSPK_00032

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	1000	1045		104	80	120		6020A
Antimony	10.0	10.0		100	80	120		6020A
Arsenic	20.0	21.66		108	80	120		6020A
Barium	20.0	21.30		106	80	120		6020A
Beryllium	10.0	10.33		103	80	120		6020A
Cadmium	10.0	9.59		96	80	120		6020A
Calcium	1000	1080		108	80	120		6020A
Chromium	20.0	19.78		99	80	120		6020A
Cobalt	10.0	9.99		100	80	120		6020A
Copper	20.0	20.17		101	80	120		6020A
Iron	1000	1057		106	80	120		6020A
Lead	10.0	10.32		103	80	120		6020A
Magnesium	1000	999.1		100	80	120		6020A
Manganese	100	105.1		105	80	120		6020A
Nickel	20.0	20.43		102	80	120		6020A
Potassium	1000	1104		110	80	120		6020A
Selenium	20.0	20.53		103	80	120		6020A
Silver	10.0	8.98		90	80	120		6020A
Sodium	1000	981.2		98	80	120		6020A
Thallium	8.00	8.15		102	80	120		6020A
Vanadium	20.0	20.15		101	80	120		6020A
Zinc	100	96.91		97	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-504533/2-A

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Water LCS Source: ME_DCAL-IN_02965

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	0.967		97	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-504535/3-A

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Water LCS Source: ME_DCAL-IN_02965

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	0.945		95	80	120		7470A

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

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-504419/2-A ^40

Lab Name: TestAmerica Edison Job No.: 460-152136-1

Sample Matrix: Solid LCS Source: ME_LCSS_97_00007

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	17.8	15.61		87.7	66.9	133.1		7471B

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-152163-C-1-A SD

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	11900		10750		9.9		6010C
Antimony	1210		1086		10		6010C
Arsenic	455		403.0		11	V	6010C
Barium	1940		1780		NC		6010C
Beryllium	1.1		0.984	J	NC		6010C
Cadmium	34.9		31.16		NC		6010C
Calcium	144000		128200		11	V	6010C
Chromium	650		594.9		8.4		6010C
Cobalt	109		102.5		NC		6010C
Copper	3240		2813		13	V	6010C
Iron	277000		255900		7.7		6010C
Magnesium	24300		22830		NC		6010C
Manganese	1710		1560		8.6		6010C
Nickel	390		375.8		NC		6010C
Potassium	2020	J	1835	J	NC		6010C
Selenium	14.7		14.98	J	NC		6010C
Silver	39.3		33.82		NC		6010C
Sodium	30400		26750		NC		6010C
Thallium	2.4	U	12.0	U	NC		6010C
Vanadium	76.4		70.79	J	NC		6010C
Zinc	2720		2573		5.3		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-152136-1

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	33.0	J	75.0	U	NC		6020A
Antimony	1.6	J	3.1	U	NC		6020A
Arsenic	0.77	U	3.8	U	NC		6020A
Barium	18.3		17.22	J	NC		6020A
Beryllium	0.26	U	1.3	U	NC		6020A
Cadmium	0.61	U	3.1	U	NC		6020A
Calcium	11000		11130		0.76		6020A
Chromium	1.3	U	6.6	U	NC		6020A
Cobalt	1.3	U	6.4	U	NC		6020A
Copper	1.9	U	9.5	U	NC		6020A
Iron	119	J	229	U	NC		6020A
Lead	0.37	U	1.9	U	NC		6020A
Magnesium	1750		1831		NC		6020A
Manganese	20.7		21.58	J	NC		6020A
Nickel	1.3	U	6.5	U	NC		6020A
Potassium	3230		3382		NC		6020A
Selenium	0.69	U	3.5	U	NC		6020A
Silver	1.4	U	6.8	U	NC		6020A
Sodium	9810		9553		NC		6020A
Thallium	0.24	U	1.2	U	NC		6020A
Vanadium	1.4	J	5.9	U	NC		6020A
Zinc	7.8	J	26.9	U	NC		6020A

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 460-152136-1

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	15.0	U	75.0	U	NC		6020A
Antimony	0.62	U	3.1	U	NC		6020A
Arsenic	0.77	U	3.8	U	NC		6020A
Barium	16.4		15.55	J	NC		6020A
Beryllium	0.26	U	1.3	U	NC		6020A
Cadmium	0.61	U	3.1	U	NC		6020A
Calcium	10700		10670		0.47		6020A
Chromium	1.3	U	6.6	U	NC		6020A
Cobalt	1.3	U	6.4	U	NC		6020A
Copper	1.9	U	9.5	U	NC		6020A
Iron	45.7	U	229	U	NC		6020A
Lead	0.37	U	1.9	U	NC		6020A
Magnesium	1670		1691		NC		6020A
Manganese	2.7	U	13.5	U	NC		6020A
Nickel	1.3	U	6.5	U	NC		6020A
Potassium	3060		3153		NC		6020A
Selenium	0.69	U	3.5	U	NC		6020A
Silver	1.4	U	6.8	U	NC		6020A
Sodium	9310		8855		NC		6020A
Thallium	0.24	U	1.2	U	NC		6020A
Vanadium	1.2	U	5.9	U	NC		6020A
Zinc	5.4	U	26.9	U	NC		6020A

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-152135-D-1-A SD ^5

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.032		0.063	U	NC		7471B

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-151771-D-9-B SD ^5

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.17	U	0.87	U	NC		7470A

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 460-151962-E-5-B SD ^5

SDG No:

Lab Name: TestAmerica Edison Job No: 460-152136-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.17	U	0.87	U	NC		7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: ICP5

Method: 6010C MDL Date: 06/06/2017 15:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		40	8.2
Antimony		4	0.48
Arsenic		3	0.74
Barium		40	3.24
Beryllium		0.4	0.046
Cadmium		0.8	0.119
Calcium		1000	102
Chromium		2	0.555
Cobalt		10	1.14
Copper		5	1.13
Iron		30	5.4
Lead		2	0.604
Magnesium		1000	77.1
Manganese		3	0.31
Nickel		8	0.759
Potassium		1000	53.2
Selenium		4	1.21
Silver		2	0.305
Sodium		1000	77
Thallium		4	1.18
Vanadium		10	1.19
Zinc		6	0.517

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: ICP5

Method: 6010C XMDL Date: 06/06/2017 15:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	91.1
Antimony		20	7.41
Arsenic		15	4.35
Barium		200	8.64
Beryllium		2	0.968
Cadmium		4	1.84
Calcium		5000	354
Chromium		10	3.31
Cobalt		50	3.05
Copper		25	8.06
Iron		150	92.1
Lead		10	4.08
Magnesium		5000	311
Manganese		15	3.12
Nickel		40	9.01
Potassium		5000	167
Selenium		20	4.43
Silver		10	1.8
Sodium		5000	407
Thallium		20	7.05
Vanadium		50	2.51
Zinc		30	8.99

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: ICPMS2

Method: 6020A MDL Date: 01/04/2018 11:09

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Aluminum		40	15
Antimony		2	0.615
Arsenic		2	0.767
Barium		4	1.13
Beryllium		0.8	0.255
Cadmium		2	0.614
Calcium		200	67.6
Chromium		4	1.32
Cobalt		4	1.28
Copper		4	1.89
Iron		120	45.7
Lead		1.2	0.371
Magnesium		200	65.7
Manganese		8	2.69
Nickel		4	1.3
Potassium		200	64.9
Selenium		10	0.694
Silver		2	1.35
Sodium		200	75.7
Thallium		0.8	0.238
Vanadium		4	1.18
Zinc		16	5.38

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: ICPMS2

Method: 6020A XMDL Date: 01/04/2018 11:10

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		20	7.52
Antimony		1	0.307
Arsenic		1	0.383
Barium		2	0.563
Beryllium		0.4	0.128
Cadmium		1	0.307
Calcium		100	33.8
Chromium		2	0.663
Cobalt		2	0.64
Copper		2	0.946
Iron		60	22.8
Lead		0.6	0.185
Magnesium		100	32.9
Manganese		4	1.34
Nickel		2	0.65
Potassium		100	32.4
Selenium		5	0.347
Silver		1	0.675
Sodium		100	37.8
Thallium		0.4	0.119
Vanadium		2	0.592
Zinc		8	2.69

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: ICPMS2

Method: 6020A MDL Date: 01/04/2018 11:09

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Aluminum		40	15
Antimony		2	0.615
Arsenic		2	0.767
Barium		4	1.13
Beryllium		0.8	0.255
Cadmium		2	0.614
Calcium		200	67.6
Chromium		4	1.32
Cobalt		4	1.28
Copper		4	1.89
Iron		120	45.7
Lead		1.2	0.371
Magnesium		200	65.7
Manganese		8	2.69
Nickel		4	1.3
Potassium		200	64.9
Selenium		10	0.694
Silver		2	1.35
Sodium		200	75.7
Thallium		0.8	0.238
Vanadium		4	1.18
Zinc		16	5.38

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: ICPMS2

Method: 6020A XMDL Date: 01/04/2018 11:10

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		20	7.52
Antimony		1	0.307
Arsenic		1	0.383
Barium		2	0.563
Beryllium		0.4	0.128
Cadmium		1	0.307
Calcium		100	33.8
Chromium		2	0.663
Cobalt		2	0.64
Copper		2	0.946
Iron		60	22.8
Lead		0.6	0.185
Magnesium		100	32.9
Manganese		4	1.34
Nickel		2	0.65
Potassium		100	32.4
Selenium		5	0.347
Silver		1	0.675
Sodium		100	37.8
Thallium		0.4	0.119
Vanadium		2	0.592
Zinc		8	2.69

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A MDL Date: 08/24/2016 10:46

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.174

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A XMDL Date: 08/24/2016 10:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.174

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A MDL Date: 08/24/2016 10:46

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.174

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A XMDL Date: 08/24/2016 10:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.174

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN7

Method: 7471B MDL Date: 08/24/2016 10:44

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.017	0.011

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN7

Method: 7471B XMDL Date: 08/24/2016 10:45

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.174

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison Job No: 460-152136-1

SDG No.:

Instrument ID: ICP5 Date: 01/01/2017 13:49

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum		1000000	6010C
Antimony		8000	6010C
Arsenic		20000	6010C
Barium		40000	6010C
Beryllium		8000	6010C
Cadmium		10000	6010C
Calcium		1000000	6010C
Chromium		40000	6010C
Cobalt		20000	6010C
Copper		100000	6010C
Iron		800000	6010C
Lead		60000	6010C
Magnesium		1000000	6010C
Manganese		20000	6010C
Nickel		20000	6010C
Potassium		400000	6010C
Selenium		20000	6010C
Silver		10000	6010C
Sodium		500000	6010C
Thallium		10000	6010C
Vanadium		20000	6010C
Zinc		20000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison Job No: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Date: 06/08/2017 13:56

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum		40000	6020A
Antimony		4000	6020A
Arsenic		4000	6020A
Barium		4000	6020A
Beryllium		4000	6020A
Cadmium		4000	6020A
Calcium		400000	6020A
Chromium		4000	6020A
Cobalt		2000	6020A
Copper		500	6020A
Iron		50000	6020A
Lead		4000	6020A
Magnesium		400000	6020A
Manganese		20000	6020A
Nickel		1000	6020A
Potassium		400000	6020A
Selenium		1000	6020A
Silver		500	6020A
Sodium		400000	6020A
Thallium		800	6020A
Vanadium		4000	6020A
Zinc		1000	6020A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-504339/1-A ^2	03/17/2018 23:50	504339	1.00		50
LCSSRM 460-504339/2-A	03/17/2018 23:50	504339	1.01		50
460-152163-C-1-B DU	03/17/2018 23:50	504339	1.30		50
460-152163-C-1-C MS	03/17/2018 23:50	504339	1.32		50
460-152136-2	03/17/2018 23:50	504339	1.33		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-504338/1-A ^2	03/17/2018 23:05	504338		50	50
LCS 460-504338/2-A ^2	03/17/2018 23:05	504338		50	50
460-152136-1	03/17/2018 23:05	504338		50	50
460-152136-1 DU	03/17/2018 23:05	504338		50	50
460-152136-1 MS	03/17/2018 23:05	504338		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-504395/1-B ^2	03/19/2018 09:51	504514		10	10
LCS 460-504514/2-A ^2	03/19/2018 09:51	504514		10	10
460-152136-1	03/19/2018 09:51	504514		10	10
460-152136-1 DU	03/19/2018 09:51	504514		10	10
460-152136-1 MS	03/19/2018 09:51	504514		10	10

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-504419/1-A	03/19/2018 04:20	504419	0.60		50
LCSSRM 460-504419/2-A ^40	03/19/2018 04:20	504419	0.60		50
460-152135-D-1-B DU	03/19/2018 04:20	504419	0.65		50
460-152135-D-1-C MS	03/19/2018 04:20	504419	0.65		50
460-152136-2	03/19/2018 04:20	504419	0.62		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-504533/1-A	03/19/2018 12:30	504533		30	30
LCS 460-504533/2-A	03/19/2018 12:30	504533		30	30
460-151771-D-9-C DU	03/19/2018 12:30	504533		30	30
460-151771-D-9-D MS	03/19/2018 12:30	504533		30	30
460-152136-1	03/19/2018 12:30	504533		30	30

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-504532/1-B	03/19/2018 12:43	504535		30	30
LCS 460-504535/3-A	03/19/2018 12:43	504535		30	30
460-151962-E-5-C DU	03/19/2018 12:43	504535		30	30
460-151962-E-5-D MS	03/19/2018 12:43	504535		30	30
460-152136-1	03/19/2018 12:43	504535		30	30

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 460-504569/1	1		12:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:29																				
ZZZZZZ			12:33																				
ZZZZZZ			12:37																				
ZZZZZZ			12:40																				
ZZZZZZ			12:44																				
ICV 460-504569/7	1		12:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-504569/8	1		12:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-504569/9	1		12:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-504569/10	1		12:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-504569/11	1		13:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:07																				
ZZZZZZ			13:11																				
MB 460-504339/1-A ^2	2	T	13:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 460-504339/2-A	4	T	13:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152163-C-1-B DU	10	T	13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ			13:26																				
460-152163-C-1-A SD	50	T	13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
460-152163-C-1-C MS	10	T	13:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
CCV 460-504569/20	1		13:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504569/21	1		13:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504569/22	1		13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152163-C-1-A PDS	10	T	13:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ			13:53																				
ZZZZZZ			13:57																				
ZZZZZZ			14:01																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:20																				
ZZZZZZ			14:24																				
CCV 460-504569/33	1		14:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504569/34	1		14:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504569/35	1		14:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:40																				
ZZZZZZ			14:43																				
ZZZZZZ			14:47																				
ZZZZZZ			14:51																				
ZZZZZZ			14:55																				
ZZZZZZ			14:59																				
ZZZZZZ			15:03																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			15:07																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
CCV 460-504569/46			15:18																				
CCB 460-504569/47	1		15:22		X			X							X			X					
CCVL 460-504569/48	1		15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:30																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:53																				
ZZZZZZ			15:56																				
ZZZZZZ			16:00																				
ZZZZZZ			16:04																				
CCV 460-504569/59			16:08																				
CCB 460-504569/60			16:12																				
CCVL 460-504569/61			16:16																				
ZZZZZZ			16:53																				
ZZZZZZ			16:57																				
ZZZZZZ			17:01																				
ZZZZZZ			17:05																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				
ZZZZZZ			17:16																				
ZZZZZZ			17:20																				
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
CCV 460-504569/72			17:32																				
CCB 460-504569/73			17:36																				
CCVL 460-504569/74			17:40																				
ZZZZZZ			17:44																				
ZZZZZZ			17:48																				
ZZZZZZ			17:52																				
ZZZZZZ			17:56																				
ZZZZZZ			18:00																				
ZZZZZZ			18:04																				
ZZZZZZ			18:08																				
ZZZZZZ			18:12																				
ZZZZZZ			18:16																				
ZZZZZZ			18:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 460-504569/85			18:24																				
CCB 460-504569/86			18:27																				
CCVL 460-504569/87			18:31																				
ZZZZZZ			18:35																				
ZZZZZZ			18:39																				
ZZZZZZ			18:43																				
ZZZZZZ			18:47																				
ZZZZZZ			18:51																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:03																				
ZZZZZZ			19:08																				
ZZZZZZ			19:11																				
CCV 460-504569/98			19:15																				
CCB 460-504569/99			19:19																				
CCVL 460-504569/100			19:23																				
ZZZZZZ			19:27																				
ZZZZZZ			19:31																				
ZZZZZZ			19:35																				
ZZZZZZ			19:39																				
ZZZZZZ			19:43																				
ZZZZZZ			19:47																				
ZZZZZZ			19:51																				
ZZZZZZ			19:55																				
ZZZZZZ			19:59																				
ZZZZZZ			20:03																				
CCV 460-504569/111			20:07																				
CCB 460-504569/112			20:11																				
CCVL 460-504569/113			20:15																				
ZZZZZZ			20:19																				
ZZZZZZ			20:23																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:39																				
ZZZZZZ			20:43																				
ZZZZZZ			20:47																				
ZZZZZZ			20:51																				
ZZZZZZ			20:54																				
CCV 460-504569/124			20:58																				
CCB 460-504569/125			21:02																				
CCVL 460-504569/126			21:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			21:10																				
ZZZZZZ			21:14																				
ZZZZZZ			21:18																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:34																				
CCV 460-504569/134			21:38																				
CCB 460-504569/135			21:42																				
CCVL 460-504569/136			21:46																				
ZZZZZZ			22:36																				
ZZZZZZ			22:40																				
ZZZZZZ			22:44																				
ZZZZZZ			22:48																				
ZZZZZZ			22:51																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:10																				
CCV 460-504569/147			23:14																				
CCB 460-504569/148			23:18																				
CCVL 460-504569/149			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:30																				
ZZZZZZ			23:34																				
ZZZZZZ			23:38																				
ZZZZZZ			23:42																				
ZZZZZZ			23:45																				
ZZZZZZ			23:49																				
ZZZZZZ			23:53																				
ZZZZZZ			23:57																				
ZZZZZZ			00:01																				
CCV 460-504569/160			00:05																				
CCB 460-504569/161			00:09																				
CCVL 460-504569/162			00:13																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:25																				
ZZZZZZ			00:29																				
CCV 460-504569/167			00:33																				
CCB 460-504569/168			00:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCVL 460-504569/169			00:41																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D / F	Type	Time	Analytes																				
				V	Zn																			
ICIS 460-504569/1	1		12:24	X	X																			
ZZZZZZ			12:29																					
ZZZZZZ			12:33																					
ZZZZZZ			12:37																					
ZZZZZZ			12:40																					
ZZZZZZ			12:44																					
ICV 460-504569/7	1		12:48	X	X																			
ICB 460-504569/8	1		12:51	X	X																			
ICVL 460-504569/9	1		12:55	X	X																			
ICSA 460-504569/10	1		12:59	X	X																			
ICSAB 460-504569/11	1		13:03	X	X																			
ZZZZZZ			13:07																					
ZZZZZZ			13:11																					
MB 460-504339/1-A ^2	2	T	13:15	X	X																			
LCSSRM 460-504339/2-A	4	T	13:19	X	X																			
460-152163-C-1-B DU	10	T	13:23	X	X																			
ZZZZZZ			13:26																					
460-152163-C-1-A SD	50	T	13:30	X	X																			
460-152163-C-1-C MS	10	T	13:34	X	X																			
CCV 460-504569/20	1		13:38	X	X																			
CCB 460-504569/21	1		13:41	X	X																			
CCVL 460-504569/22	1		13:45	X	X																			
460-152163-C-1-A PDS	10	T	13:49	X	X																			
ZZZZZZ			13:53																					
ZZZZZZ			13:57																					
ZZZZZZ			14:01																					
ZZZZZZ			14:05																					
ZZZZZZ			14:09																					
ZZZZZZ			14:12																					
ZZZZZZ			14:16																					
ZZZZZZ			14:20																					
ZZZZZZ			14:24																					
CCV 460-504569/33	1		14:28	X	X																			
CCB 460-504569/34	1		14:31	X	X																			
CCVL 460-504569/35	1		14:36	X	X																			
ZZZZZZ			14:40																					
ZZZZZZ			14:43																					
ZZZZZZ			14:47																					
ZZZZZZ			14:51																					
ZZZZZZ			14:55																					
ZZZZZZ			14:59																					
ZZZZZZ			15:03																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			15:07																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
CCV 460-504569/46			15:18																				
CCB 460-504569/47	1		15:22																				
CCVL 460-504569/48	1		15:26	X	X																		
ZZZZZZ			15:30																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:53																				
ZZZZZZ			15:56																				
ZZZZZZ			16:00																				
ZZZZZZ			16:04																				
CCV 460-504569/59			16:08																				
CCB 460-504569/60			16:12																				
CCVL 460-504569/61			16:16																				
ZZZZZZ			16:53																				
ZZZZZZ			16:57																				
ZZZZZZ			17:01																				
ZZZZZZ			17:05																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				
ZZZZZZ			17:16																				
ZZZZZZ			17:20																				
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
CCV 460-504569/72			17:32																				
CCB 460-504569/73			17:36																				
CCVL 460-504569/74			17:40																				
ZZZZZZ			17:44																				
ZZZZZZ			17:48																				
ZZZZZZ			17:52																				
ZZZZZZ			17:56																				
ZZZZZZ			18:00																				
ZZZZZZ			18:04																				
ZZZZZZ			18:08																				
ZZZZZZ			18:12																				
ZZZZZZ			18:16																				
ZZZZZZ			18:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCV 460-504569/85			18:24																				
CCB 460-504569/86			18:27																				
CCVL 460-504569/87			18:31																				
ZZZZZZ			18:35																				
ZZZZZZ			18:39																				
ZZZZZZ			18:43																				
ZZZZZZ			18:47																				
ZZZZZZ			18:51																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:03																				
ZZZZZZ			19:08																				
ZZZZZZ			19:11																				
CCV 460-504569/98			19:15																				
CCB 460-504569/99			19:19																				
CCVL 460-504569/100			19:23																				
ZZZZZZ			19:27																				
ZZZZZZ			19:31																				
ZZZZZZ			19:35																				
ZZZZZZ			19:39																				
ZZZZZZ			19:43																				
ZZZZZZ			19:47																				
ZZZZZZ			19:51																				
ZZZZZZ			19:55																				
ZZZZZZ			19:59																				
ZZZZZZ			20:03																				
CCV 460-504569/111			20:07																				
CCB 460-504569/112			20:11																				
CCVL 460-504569/113			20:15																				
ZZZZZZ			20:19																				
ZZZZZZ			20:23																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:39																				
ZZZZZZ			20:43																				
ZZZZZZ			20:47																				
ZZZZZZ			20:51																				
ZZZZZZ			20:54																				
CCV 460-504569/124			20:58																				
CCB 460-504569/125			21:02																				
CCVL 460-504569/126			21:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			21:10																				
ZZZZZZ			21:14																				
ZZZZZZ			21:18																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:34																				
CCV 460-504569/134			21:38																				
CCB 460-504569/135			21:42																				
CCVL 460-504569/136			21:46																				
ZZZZZZ			22:36																				
ZZZZZZ			22:40																				
ZZZZZZ			22:44																				
ZZZZZZ			22:48																				
ZZZZZZ			22:51																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:10																				
CCV 460-504569/147			23:14																				
CCB 460-504569/148			23:18																				
CCVL 460-504569/149			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:30																				
ZZZZZZ			23:34																				
ZZZZZZ			23:38																				
ZZZZZZ			23:42																				
ZZZZZZ			23:45																				
ZZZZZZ			23:49																				
ZZZZZZ			23:53																				
ZZZZZZ			23:57																				
ZZZZZZ			00:01																				
CCV 460-504569/160			00:05																				
CCB 460-504569/161			00:09																				
CCVL 460-504569/162			00:13																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:25																				
ZZZZZZ			00:29																				
CCV 460-504569/167			00:33																				
CCB 460-504569/168			00:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP4 Method: 6010C

Start Date: 03/19/2018 12:24 End Date: 03/20/2018 00:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCVL 460-504569/169			00:41																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 03/22/2018 12:18 End Date: 03/22/2018 14:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 460-505273/1	1		12:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:22																				
ZZZZZZ			12:26																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
ICV 460-505273/7	1		12:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-505273/8	1		12:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-505273/9	1		12:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-505273/10	1		12:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-505273/11	1		12:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:10																				
ZZZZZZ			13:14																				
ZZZZZZ			13:17																				
460-152136-2	4	T	13:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:25																				
ZZZZZZ			13:29																				
CCV 460-505273/20	1		13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-505273/21	1		13:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-505273/22	1		13:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:20																				
CCV 460-505273/33			14:23																				
CCB 460-505273/34			14:27																				
CCVL 460-505273/35			14:31																				
ZZZZZZ			14:35																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 03/22/2018 12:18 End Date: 03/22/2018 14:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ICIS 460-505273/1	1		12:18	X	X																		
ZZZZZZ			12:22																				
ZZZZZZ			12:26																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:37																				
ICV 460-505273/7	1		12:41	X	X																		
ICB 460-505273/8	1		12:45	X	X																		
ICVL 460-505273/9	1		12:49	X	X																		
ICSA 460-505273/10	1		12:53	X	X																		
ICSAB 460-505273/11	1		12:57	X	X																		
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:10																				
ZZZZZZ			13:14																				
ZZZZZZ			13:17																				
460-152136-2	4	T	13:21	X	X																		
ZZZZZZ			13:25																				
ZZZZZZ			13:29																				
CCV 460-505273/20	1		13:33	X	X																		
CCB 460-505273/21	1		13:36	X	X																		
CCVL 460-505273/22	1		13:40	X	X																		
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:20																				
CCV 460-505273/33			14:23																				
CCB 460-505273/34			14:27																				
CCVL 460-505273/35			14:31																				
ZZZZZZ			14:35																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 460-504570/1			15:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:07																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
ZZZZZZ			15:17																				
ZZZZZZ			15:20																				
ICV 460-504570/7	1		15:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-504570/8	1		15:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-504570/9	1		15:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 460-504570/10			15:34																				
ICSA 460-504570/11	1		15:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-504570/12	1		15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:44																				
ZZZZZZ			15:47																				
ZZZZZZ			15:50																				
CCV 460-504570/16			15:54																				
CCB 460-504570/17			15:57																				
CCVL 460-504570/18			16:00																				
ZZZZZZ			16:04																				
ZZZZZZ			16:07																				
ZZZZZZ			16:10																				
ZZZZZZ			16:13																				
ZZZZZZ			16:16																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				
ZZZZZZ			16:26																				
ZZZZZZ			16:30																				
ZZZZZZ			16:33																				
CCV 460-504570/29			16:36																				
CCB 460-504570/30			16:40																				
CCVL 460-504570/31			16:43																				
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
ZZZZZZ			16:53																				
ZZZZZZ			16:56																				
ZZZZZZ			16:59																				
ZZZZZZ			17:03																				
ZZZZZZ			17:06																				
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
ZZZZZZ			17:16																				
CCV 460-504570/42			17:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCB 460-504570/43			17:23																				
CCVL 460-504570/44			17:26																				
ZZZZZZ			17:30																				
ZZZZZZ			17:33																				
ZZZZZZ			17:36																				
ZZZZZZ			17:41																				
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:04																				
CCV 460-504570/55	1		18:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504570/56	1		18:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504570/57	1		18:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 460-504338/1-A ^2	2	T	18:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 460-504338/2-A ^2	2	T	18:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 PDS	2	T	18:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 MS	2	T	18:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 DU	2	T	18:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1	2	T	18:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 SD	10	T	18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:41																				
ZZZZZZ			18:44																				
ZZZZZZ			18:47																				
CCV 460-504570/68	1		18:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504570/69	1		18:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504570/70	1		18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:01																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ			19:11																				
ZZZZZZ			19:14																				
ZZZZZZ			19:17																				
ZZZZZZ			19:20																				
ZZZZZZ			19:24																				
ZZZZZZ			19:27																				
ZZZZZZ			19:30																				
CCV 460-504570/81			19:34																				
CCB 460-504570/82			19:37																				
CCVL 460-504570/83			19:40																				
ZZZZZZ			19:44																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			19:51																					
ZZZZZZ			19:55																					
ZZZZZZ			19:58																					
ZZZZZZ			20:01																					
ZZZZZZ			20:05																					
ZZZZZZ			20:08																					
ZZZZZZ			20:11																					
ZZZZZZ			20:15																					
ZZZZZZ			20:18																					
CCV 460-504570/94			20:21																					
CCB 460-504570/95			20:24																					
CCVL 460-504570/96			20:28																					
ZZZZZZ			20:31																					
ZZZZZZ			20:35																					
ZZZZZZ			20:38																					
ZZZZZZ			20:41																					
ZZZZZZ			20:45																					
CCV 460-504570/102			20:48																					
CCB 460-504570/103			20:51																					
CCVL 460-504570/104			20:55																					
ZZZZZZ			20:58																					
ZZZZZZ			21:01																					
ZZZZZZ			21:04																					
ZZZZZZ			21:08																					
ZZZZZZ			21:11																					
ZZZZZZ			21:14																					
ZZZZZZ			21:18																					
ZZZZZZ			21:21																					
ZZZZZZ			21:24																					
ZZZZZZ			21:28																					
CCV 460-504570/115			21:31																					
CCB 460-504570/116			21:34																					
CCVL 460-504570/117			21:38																					
ZZZZZZ			21:41																					
ZZZZZZ			21:44																					
ZZZZZZ			21:48																					
ZZZZZZ			21:58																					
ZZZZZZ			22:01																					
ZZZZZZ			22:05																					
ZZZZZZ			22:08																					
ZZZZZZ			22:11																					
ZZZZZZ			22:15																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			22:18																				
CCV 460-504570/128			22:21																				
CCB 460-504570/129			22:26																				
CCVL 460-504570/130			22:29																				
CCV 460-504570/131			22:32																				
CCB 460-504570/132			22:36																				
CCVL 460-504570/133			22:39																				
ZZZZZZ			22:42																				
ZZZZZZ			22:46																				
ZZZZZZ			22:49																				
ZZZZZZ			22:52																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:02																				
ZZZZZZ			23:05																				
ZZZZZZ			23:09																				
ZZZZZZ			23:12																				
CCV 460-504570/144			23:15																				
CCB 460-504570/145			23:19																				
CCVL 460-504570/146			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:29																				
ZZZZZZ			23:32																				
ZZZZZZ			23:35																				
ZZZZZZ			23:39																				
ZZZZZZ			23:42																				
ZZZZZZ			23:45																				
ZZZZZZ			23:49																				
ZZZZZZ			23:52																				
ZZZZZZ			23:56																				
CCV 460-504570/157	1		23:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504570/158	1		00:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504570/159	1		00:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 460-504395/1-B ^2	2	D	00:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 460-504514/2-A ^2	2	T	00:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 MS	2	D	00:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 DU	2	D	00:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1	2	D	00:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-152136-1 SD	10	D	00:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			00:34																				
ZZZZZZ			00:38																				
ZZZZZZ			00:41																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 460-504570/169	1		00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-504570/170	1		00:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-504570/171	1		00:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			00:54																				
ZZZZZZ			00:58																				
ZZZZZZ			01:01																				
ZZZZZZ			01:04																				
ZZZZZZ			01:08																				
ZZZZZZ			01:11																				
ZZZZZZ			01:14																				
ZZZZZZ			01:18																				
ZZZZZZ			01:21																				
CCV 460-504570/181			01:24																				
CCB 460-504570/182			01:28																				
CCVL 460-504570/183			01:31																				
ZZZZZZ			01:34																				
ZZZZZZ			01:38																				
ZZZZZZ			01:41																				
ZZZZZZ			01:44																				
ZZZZZZ			01:48																				
ZZZZZZ			01:51																				
ZZZZZZ			01:54																				
ZZZZZZ			01:58																				
ZZZZZZ			02:01																				
CCV 460-504570/193			02:04																				
CCB 460-504570/194			02:08																				
CCVL 460-504570/195			02:11																				
ZZZZZZ			02:14																				
ZZZZZZ			02:18																				
ZZZZZZ			02:21																				
ZZZZZZ			02:24																				
ZZZZZZ			02:27																				
ZZZZZZ			02:31																				
ZZZZZZ			02:34																				
ZZZZZZ			02:37																				
ZZZZZZ			02:41																				
ZZZZZZ			02:44																				
CCV 460-504570/206			02:47																				
CCB 460-504570/207			02:51																				
CCVL 460-504570/208			02:54																				
ZZZZZZ			02:57																				
ZZZZZZ			03:01																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			03:04																					
ZZZZZZ			03:07																					
ZZZZZZ			03:10																					
ZZZZZZ			03:14																					
ZZZZZZ			03:17																					
ZZZZZZ			03:20																					
ZZZZZZ			03:24																					
ZZZZZZ			03:27																					
CCV 460-504570/219			03:30																					
CCB 460-504570/220			03:34																					
CCVL 460-504570/221			03:37																					
ZZZZZZ			03:40																					
ZZZZZZ			03:44																					
ZZZZZZ			03:47																					
ZZZZZZ			03:50																					
ZZZZZZ			03:54																					
ZZZZZZ			03:57																					
CCV 460-504570/228			04:00																					
CCB 460-504570/229			04:03																					
CCVL 460-504570/230			04:07																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 460-504570/1			15:04	X	X																		
ZZZZZZ			15:07																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
ZZZZZZ			15:17																				
ZZZZZZ			15:20																				
ICV 460-504570/7	1		15:24	X	X																		
ICB 460-504570/8	1		15:27	X	X																		
ICVL 460-504570/9	1		15:30	X	X																		
CRI 460-504570/10			15:34																				
ICSA 460-504570/11	1		15:37	X	X																		
ICSAB 460-504570/12	1		15:40	X	X																		
ZZZZZZ			15:44																				
ZZZZZZ			15:47																				
ZZZZZZ			15:50																				
CCV 460-504570/16			15:54																				
CCB 460-504570/17			15:57																				
CCVL 460-504570/18			16:00																				
ZZZZZZ			16:04																				
ZZZZZZ			16:07																				
ZZZZZZ			16:10																				
ZZZZZZ			16:13																				
ZZZZZZ			16:16																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				
ZZZZZZ			16:26																				
ZZZZZZ			16:30																				
ZZZZZZ			16:33																				
CCV 460-504570/29			16:36																				
CCB 460-504570/30			16:40																				
CCVL 460-504570/31			16:43																				
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
ZZZZZZ			16:53																				
ZZZZZZ			16:56																				
ZZZZZZ			16:59																				
ZZZZZZ			17:03																				
ZZZZZZ			17:06																				
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
ZZZZZZ			17:16																				
CCV 460-504570/42			17:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
CCB 460-504570/43			17:23																				
CCVL 460-504570/44			17:26																				
ZZZZZZ			17:30																				
ZZZZZZ			17:33																				
ZZZZZZ			17:36																				
ZZZZZZ			17:41																				
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:04																				
CCV 460-504570/55	1		18:07	X	X																		
CCB 460-504570/56	1		18:11	X	X																		
CCVL 460-504570/57	1		18:14	X	X																		
MB 460-504338/1-A ^2	2	T	18:17	X	X																		
LCS 460-504338/2-A ^2	2	T	18:21	X	X																		
460-152136-1 PDS	2	T	18:24	X	X																		
460-152136-1 MS	2	T	18:27	X	X																		
460-152136-1 DU	2	T	18:31	X	X																		
460-152136-1	2	T	18:34	X	X																		
460-152136-1 SD	10	T	18:37	X	X																		
ZZZZZZ			18:41																				
ZZZZZZ			18:44																				
ZZZZZZ			18:47																				
CCV 460-504570/68	1		18:51	X	X																		
CCB 460-504570/69	1		18:54	X	X																		
CCVL 460-504570/70	1		18:57	X	X																		
ZZZZZZ			19:01																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ			19:11																				
ZZZZZZ			19:14																				
ZZZZZZ			19:17																				
ZZZZZZ			19:20																				
ZZZZZZ			19:24																				
ZZZZZZ			19:27																				
ZZZZZZ			19:30																				
CCV 460-504570/81			19:34																				
CCB 460-504570/82			19:37																				
CCVL 460-504570/83			19:40																				
ZZZZZZ			19:44																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			19:51																				
ZZZZZZ			19:55																				
ZZZZZZ			19:58																				
ZZZZZZ			20:01																				
ZZZZZZ			20:05																				
ZZZZZZ			20:08																				
ZZZZZZ			20:11																				
ZZZZZZ			20:15																				
ZZZZZZ			20:18																				
CCV 460-504570/94			20:21																				
CCB 460-504570/95			20:24																				
CCVL 460-504570/96			20:28																				
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:38																				
ZZZZZZ			20:41																				
ZZZZZZ			20:45																				
CCV 460-504570/102			20:48																				
CCB 460-504570/103			20:51																				
CCVL 460-504570/104			20:55																				
ZZZZZZ			20:58																				
ZZZZZZ			21:01																				
ZZZZZZ			21:04																				
ZZZZZZ			21:08																				
ZZZZZZ			21:11																				
ZZZZZZ			21:14																				
ZZZZZZ			21:18																				
ZZZZZZ			21:21																				
ZZZZZZ			21:24																				
ZZZZZZ			21:28																				
CCV 460-504570/115			21:31																				
CCB 460-504570/116			21:34																				
CCVL 460-504570/117			21:38																				
ZZZZZZ			21:41																				
ZZZZZZ			21:44																				
ZZZZZZ			21:48																				
ZZZZZZ			21:58																				
ZZZZZZ			22:01																				
ZZZZZZ			22:05																				
ZZZZZZ			22:08																				
ZZZZZZ			22:11																				
ZZZZZZ			22:15																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			22:18																				
CCV 460-504570/128			22:21																				
CCB 460-504570/129			22:26																				
CCVL 460-504570/130			22:29																				
CCV 460-504570/131			22:32																				
CCB 460-504570/132			22:36																				
CCVL 460-504570/133			22:39																				
ZZZZZZ			22:42																				
ZZZZZZ			22:46																				
ZZZZZZ			22:49																				
ZZZZZZ			22:52																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:02																				
ZZZZZZ			23:05																				
ZZZZZZ			23:09																				
ZZZZZZ			23:12																				
CCV 460-504570/144			23:15																				
CCB 460-504570/145			23:19																				
CCVL 460-504570/146			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:29																				
ZZZZZZ			23:32																				
ZZZZZZ			23:35																				
ZZZZZZ			23:39																				
ZZZZZZ			23:42																				
ZZZZZZ			23:45																				
ZZZZZZ			23:49																				
ZZZZZZ			23:52																				
ZZZZZZ			23:56																				
CCV 460-504570/157	1		23:59	X	X																		
CCB 460-504570/158	1		00:02	X	X																		
CCVL 460-504570/159	1		00:06	X	X																		
MB 460-504395/1-B ^2	2	D	00:09	X	X																		
LCS 460-504514/2-A ^2	2	T	00:12	X	X																		
460-152136-1 MS	2	D	00:20	X	X																		
460-152136-1 DU	2	D	00:24	X	X																		
460-152136-1	2	D	00:28	X	X																		
460-152136-1 SD	10	D	00:31	X	X																		
ZZZZZZ			00:34																				
ZZZZZZ			00:38																				
ZZZZZZ			00:41																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCV 460-504570/169	1		00:44	X	X																		
CCB 460-504570/170	1		00:48	X	X																		
CCVL 460-504570/171	1		00:51	X	X																		
ZZZZZZ			00:54																				
ZZZZZZ			00:58																				
ZZZZZZ			01:01																				
ZZZZZZ			01:04																				
ZZZZZZ			01:08																				
ZZZZZZ			01:11																				
ZZZZZZ			01:14																				
ZZZZZZ			01:18																				
ZZZZZZ			01:21																				
CCV 460-504570/181			01:24																				
CCB 460-504570/182			01:28																				
CCVL 460-504570/183			01:31																				
ZZZZZZ			01:34																				
ZZZZZZ			01:38																				
ZZZZZZ			01:41																				
ZZZZZZ			01:44																				
ZZZZZZ			01:48																				
ZZZZZZ			01:51																				
ZZZZZZ			01:54																				
ZZZZZZ			01:58																				
ZZZZZZ			02:01																				
CCV 460-504570/193			02:04																				
CCB 460-504570/194			02:08																				
CCVL 460-504570/195			02:11																				
ZZZZZZ			02:14																				
ZZZZZZ			02:18																				
ZZZZZZ			02:21																				
ZZZZZZ			02:24																				
ZZZZZZ			02:27																				
ZZZZZZ			02:31																				
ZZZZZZ			02:34																				
ZZZZZZ			02:37																				
ZZZZZZ			02:41																				
ZZZZZZ			02:44																				
CCV 460-504570/206			02:47																				
CCB 460-504570/207			02:51																				
CCVL 460-504570/208			02:54																				
ZZZZZZ			02:57																				
ZZZZZZ			03:01																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: ICPMS2 Method: 6020A

Start Date: 03/19/2018 15:04 End Date: 03/20/2018 04:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			03:04																				
ZZZZZZ			03:07																				
ZZZZZZ			03:10																				
ZZZZZZ			03:14																				
ZZZZZZ			03:17																				
ZZZZZZ			03:20																				
ZZZZZZ			03:24																				
ZZZZZZ			03:27																				
CCV 460-504570/219			03:30																				
CCB 460-504570/220			03:34																				
CCVL 460-504570/221			03:37																				
ZZZZZZ			03:40																				
ZZZZZZ			03:44																				
ZZZZZZ			03:47																				
ZZZZZZ			03:50																				
ZZZZZZ			03:54																				
ZZZZZZ			03:57																				
CCV 460-504570/228			04:00																				
CCB 460-504570/229			04:03																				
CCVL 460-504570/230			04:07																				

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 03/19/2018 14:05 End Date: 03/19/2018 17:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:05																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:09																				
ZZZZZZ			14:11																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ICIS 460-504582/9			14:18	X																			
IC 460-504533/26-A			14:20	X																			
IC 460-504533/27-A			14:22	X																			
IC 460-504533/28-A			14:23	X																			
IC 460-504533/29-A			14:25	X																			
IC 460-504533/30-A			14:27	X																			
ICV 460-504533/31-A	1		14:29	X																			
ICB 460-504582/16	1		14:31	X																			
CRI 460-504582/17	1		14:32	X																			
ZZZZZZ			14:34																				
ZZZZZZ			14:36																				
CCV 460-504533/33-A	1		14:38	X																			
CCB 460-504582/21	1		14:39	X																			
MB 460-504533/1-A	1	T	14:41	X																			
LCS 460-504533/2-A	1	T	14:43	X																			
ZZZZZZ			14:45																				
460-151771-D-9-C DU	1	T	14:46	X																			
460-151771-D-9-D MS	1	T	14:48	X																			
460-151771-D-9-B SD ^5	5	T	14:50	X																			
ZZZZZZ			14:51																				
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:57																				
CCV 460-504533/33-A	1		14:58	X																			
CCB 460-504582/33	1		15:00	X																			
ZZZZZZ			15:02																				
ZZZZZZ			15:04																				
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
ZZZZZZ			15:09																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
460-152136-1	1	T	15:14	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 03/19/2018 14:05 End Date: 03/19/2018 17:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:16																				
ZZZZZZ			15:18																				
CCV 460-504533/33-A	1		15:19	X																			
CCB 460-504582/45	1		15:21	X																			
ZZZZZZ			15:23																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:30																				
MB 460-504532/1-B	1	D	15:31	X																			
LCS 460-504535/3-A	1	T	15:33	X																			
ZZZZZZ			15:35																				
460-151962-E-5-C DU	1	D	15:36	X																			
460-151962-E-5-D MS	1	D	15:38	X																			
CCV 460-504533/33-A	1		15:40	X																			
CCB 460-504582/57	1		15:42	X																			
460-151962-E-5-B SD ^5	5	D	15:43	X																			
ZZZZZZ			15:45																				
ZZZZZZ			15:47																				
460-152136-1	1	D	15:49	X																			
ZZZZZZ			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:59																				
CCV 460-504533/33-A	1		16:00	X																			
CCB 460-504582/69	1		16:02	X																			
ZZZZZZ			16:04																				
ZZZZZZ			16:06																				
ZZZZZZ			16:07																				
ZZZZZZ			16:09																				
ZZZZZZ			16:11																				
ZZZZZZ			16:13																				
ZZZZZZ			16:14																				
ZZZZZZ			16:16																				
ZZZZZZ			16:18																				
ZZZZZZ			16:20																				
CCV 460-504533/33-A			16:21																				
CCB 460-504582/81			16:23																				
ZZZZZZ			16:25																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 03/19/2018 14:05 End Date: 03/19/2018 17:13

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:33																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
CCV 460-504533/33-A			16:42																				
CCB 460-504582/93			16:44																				
ZZZZZZ			16:46																				
ZZZZZZ			16:47																				
ZZZZZZ			16:49																				
ZZZZZZ			16:51																				
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
CCV 460-504533/33-A			17:03																				
CCB 460-504582/105			17:04																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
CCV 460-504533/33-A			17:11																				
CCB 460-504582/110			17:13																				

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN7 Method: 7471B

Start Date: 03/19/2018 08:14 End Date: 03/19/2018 11:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:16																				
ZZZZZZ			08:18																				
ZZZZZZ			08:19																				
ZZZZZZ			08:21																				
ZZZZZZ			08:23																				
ZZZZZZ			08:25																				
ZZZZZZ			08:27																				
ZZZZZZ			08:29																				
ICIS 460-504528/11			08:32	X																			
IC 460-504414/2-A			08:34	X																			
IC 460-504414/3-A			08:36	X																			
IC 460-504414/4-A			08:37	X																			
IC 460-504414/5-A			08:39	X																			
IC 460-504414/6-A			08:41	X																			
ICV 460-504528/17	1		08:43	X																			
ICB 460-504528/18	1		08:45	X																			
CCV 460-504528/19			08:47																				
CCB 460-504528/20			08:49																				
ZZZZZZ			08:51																				
ZZZZZZ			08:52																				
ZZZZZZ			08:54																				
ZZZZZZ			08:56																				
ZZZZZZ			08:58																				
ZZZZZZ			09:00																				
ZZZZZZ			09:02																				
ZZZZZZ			09:04																				
ZZZZZZ			09:05																				
ZZZZZZ			09:07																				
CCV 460-504528/31			09:09																				
CCB 460-504528/32			09:11																				
ZZZZZZ			09:13																				
ZZZZZZ			09:14																				
ZZZZZZ			09:15																				
ZZZZZZ			09:17																				
ZZZZZZ			09:19																				
ZZZZZZ			09:21																				
ZZZZZZ			09:22																				
ZZZZZZ			09:24																				
ZZZZZZ			09:26																				
ZZZZZZ			09:28																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN7 Method: 7471B

Start Date: 03/19/2018 08:14 End Date: 03/19/2018 11:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 460-504528/43	1		09:30	X																			
CCB 460-504528/44	1		09:31	X																			
ZZZZZZ			09:33																				
ZZZZZZ			09:35																				
ZZZZZZ			09:37																				
ZZZZZZ			09:39																				
ZZZZZZ			09:40																				
MB 460-504419/1-A	1	T	09:42	X																			
LCSSRM 460-504419/2-A ^40	40	T	09:44	X																			
ZZZZZZ			09:46																				
460-152135-D-1-B DU	1	T	09:48	X																			
460-152135-D-1-C MS	1	T	09:49	X																			
CCV 460-504528/55	1		09:51	X																			
CCB 460-504528/56	1		09:53	X																			
460-152135-D-1-A SD ^5	5	T	09:55	X																			
ZZZZZZ			09:56																				
ZZZZZZ			09:58																				
ZZZZZZ			10:00																				
ZZZZZZ			10:02																				
ZZZZZZ			10:03																				
ZZZZZZ			10:05																				
ZZZZZZ			10:07																				
ZZZZZZ			10:09																				
ZZZZZZ			10:10																				
CCV 460-504528/67	1		10:12	X																			
CCB 460-504528/68	1		10:14	X																			
ZZZZZZ			10:16																				
ZZZZZZ			10:17																				
ZZZZZZ			10:19																				
ZZZZZZ			10:21																				
ZZZZZZ			10:22																				
ZZZZZZ			10:24																				
460-152136-2	1	T	10:26	X																			
ZZZZZZ			10:28																				
ZZZZZZ			10:29																				
ZZZZZZ			10:31																				
CCV 460-504528/79	1		10:33	X																			
CCB 460-504528/80	1		10:35	X																			
ZZZZZZ			10:37																				
ZZZZZZ			10:38																				
ZZZZZZ			10:40																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: LEEMAN7 Method: 7471B

Start Date: 03/19/2018 08:14 End Date: 03/19/2018 11:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			10:42																				
ZZZZZZ			10:44																				
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:49																				
ZZZZZZ			10:51																				
ZZZZZZ			10:53																				
CCV 460-504528/91			10:54																				
CCB 460-504528/92			10:56																				
ZZZZZZ			10:58																				
ZZZZZZ			11:00																				
ZZZZZZ			11:02																				
ZZZZZZ			11:04																				
ZZZZZZ			11:05																				
ZZZZZZ			11:07																				
ZZZZZZ			11:09																				
ZZZZZZ			11:11																				
ZZZZZZ			11:13																				
ZZZZZZ			11:15																				
CCV 460-504528/103			11:16																				
CCB 460-504528/104			11:18																				
ZZZZZZ			11:20																				
CCV 460-504528/106			11:22																				
CCB 460-504528/107			11:23																				

Prep Types
T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICP-MS Instrument ID: ICPMS2 Start Date: 03/19/2018 End Date: 03/20/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge/1	Q	Element Ge/2	Q	Element In	Q
ICV 460-504570/7	15:24	94		101		99		101		100	
ICB 460-504570/8	15:27	97		102		102		100		103	
ICVL 460-504570/9	15:30	94		102		102		99		102	
ICSA 460-504570/11	15:37	84		100		86		94		94	
ICSAB 460-504570/12	15:40	82		98		86		94		93	
CCV 460-504570/55	18:07	95		115		109		109		108	
CCB 460-504570/56	18:11	100		115		111		111		111	
CCVL 460-504570/57	18:14	99		115		110		111		110	
MB 460-504338/1-A ^2	18:17	101		116		111		110		111	
LCS 460-504338/2-A ^2	18:21	85		111		102		105		105	
460-152136-1 PDS	18:24	83		109		103		105		104	
460-152136-1 MS	18:27	83		109		103		106		104	
460-152136-1 DU	18:31	83		110		103		105		104	
460-152136-1	18:34	83		109		104		106		105	
460-152136-1 SD	18:37	93		115		110		110		111	
CCV 460-504570/68	18:51	93		115		107		108		108	
CCB 460-504570/69	18:54	95		116		109		108		111	
CCVL 460-504570/70	18:57	96		115		109		110		111	
CCV 460-504570/157	23:59	93		111		102		106		107	
CCB 460-504570/158	00:02	96		112		105		107		108	
CCVL 460-504570/159	00:06	97		111		104		108		108	
460-152136-1 MS	00:20	98		111		104		107		108	
460-152136-1 DU	00:24	100		112		105		109		108	
460-152136-1	00:28	100		111		105		108		109	
460-152136-1 SD	00:31	98		111		105		106		108	
CCV 460-504570/169	00:44	96		110		102		105		104	
CCB 460-504570/170	00:48	96		110		103		104		107	
CCVL 460-504570/171	00:51	99		111		104		105		108	

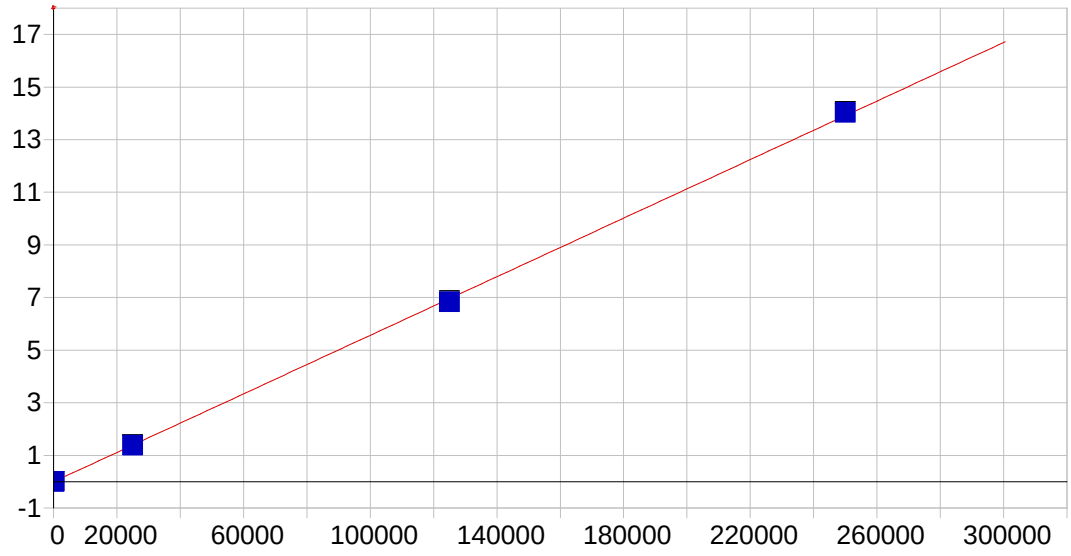
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

ICP-MS Instrument ID: ICPMS2 Start Date: 03/19/2018 End Date: 03/20/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 460-504570/7	15:24	101		97							
ICB 460-504570/8	15:27	101		100							
ICVL 460-504570/9	15:30	101		99							
ICSA 460-504570/11	15:37	94		84							
ICSAB 460-504570/12	15:40	95		85							
CCV 460-504570/55	18:07	105		100							
CCB 460-504570/56	18:11	106		104							
CCVL 460-504570/57	18:14	107		103							
MB 460-504338/1-A ^2	18:17	106		104							
LCS 460-504338/2-A ^2	18:21	103		99							
460-152136-1 PDS	18:24	103		99							
460-152136-1 MS	18:27	103		97							
460-152136-1 DU	18:31	103		99							
460-152136-1	18:34	103		98							
460-152136-1 SD	18:37	106		104							
CCV 460-504570/68	18:51	106		99							
CCB 460-504570/69	18:54	106		103							
CCVL 460-504570/70	18:57	105		104							
CCV 460-504570/157	23:59	103		98							
CCB 460-504570/158	00:02	104		101							
CCVL 460-504570/159	00:06	103		101							
460-152136-1 MS	00:20	104		99							
460-152136-1 DU	00:24	104		100							
460-152136-1	00:28	104		100							
460-152136-1 SD	00:31	104		101							
CCV 460-504570/169	00:44	101		97							
CCB 460-504570/170	00:48	102		100							
CCVL 460-504570/171	00:51	102		100							

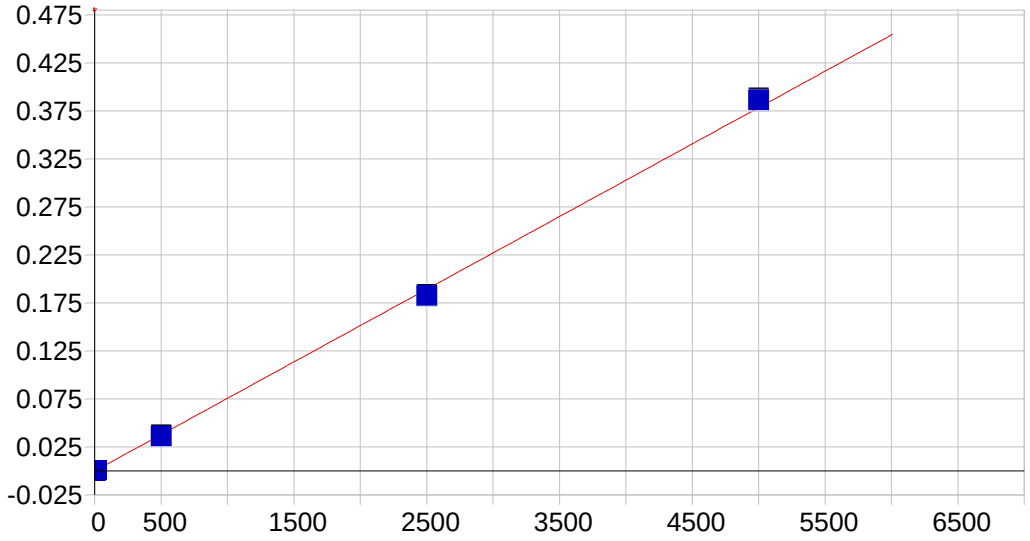


Al 396.152 { 85}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000960	Re-Slope:	1.000000
A1 (Gain):	0.000056	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	22.768480		
Predicted MQL:	75.894934		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.03657	-.037	.000	-.00096	.002	1
CAL2	200.00	238.54	38.5	19.3	.01235	.000	1
CAL3	25000.	24971.	-29.1	-.116	1.3896	.022	1
CAL4	125000.	122840.	-2160.	-1.73	6.8396	.036	1
CAL5	250000.	252150.	2150.	.861	14.041	.034	1

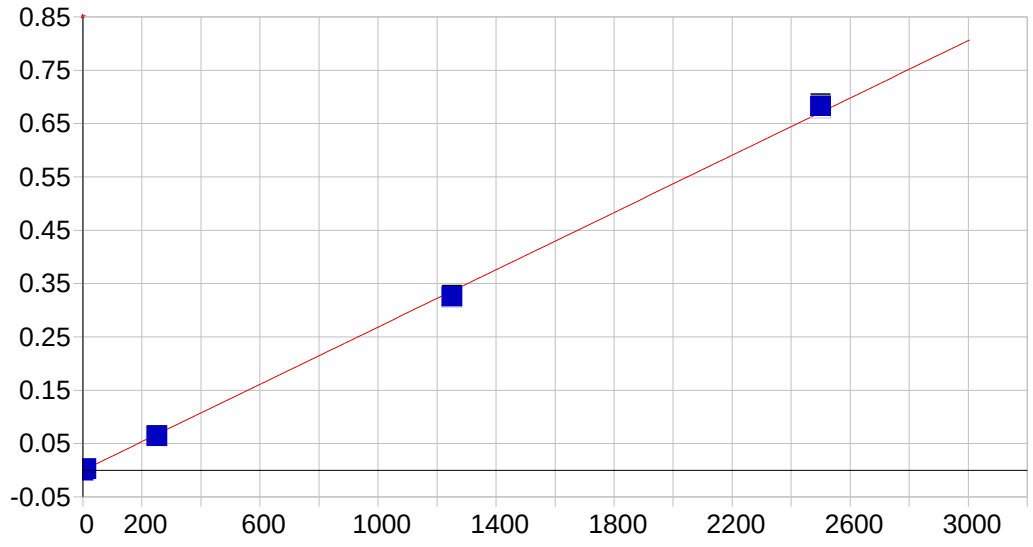


As 189.042 {478}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000087	Re-Slope:	1.000000
A1 (Gain):	0.000076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999579	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	2.641118		
Predicted MQL:	8.803727		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00210	.002	.000	-.00009	.000	1
CAL2	15.000	14.599	-.401	-2.67	.00101	.000	1
CAL3	500.00	480.89	-19.1	-3.82	.03611	.001	1
CAL4	2500.0	2413.2	-86.8	-3.47	.18155	.001	1
CAL5	5000.0	5108.0	108.	2.16	.38450	.002	1
CAL1	5.0000	3.2868	-1.71	-34.3	.00016	.000	1

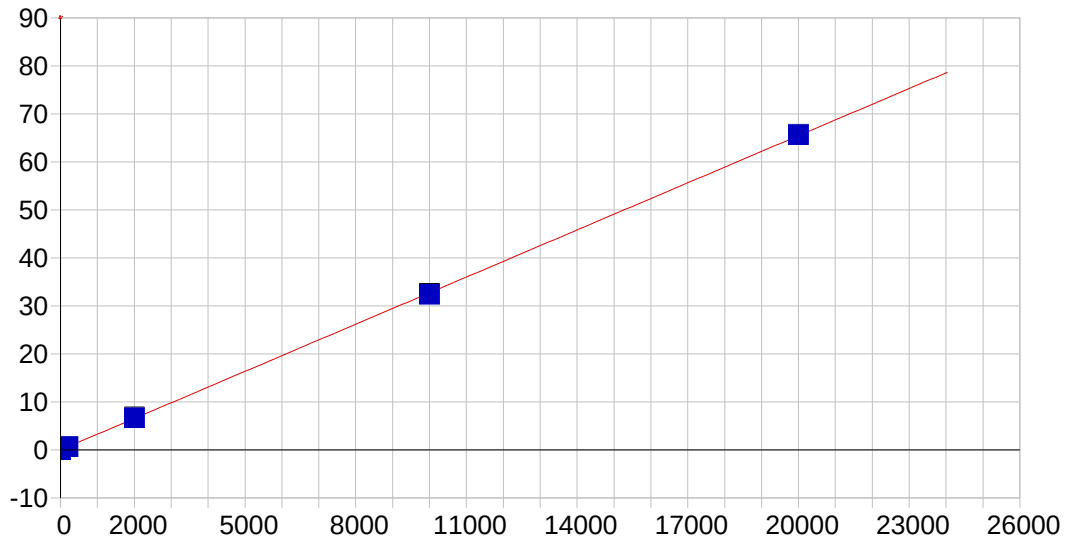


Ag 328.068 {103}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000042	Re-Slope:	1.000000
A1 (Gain):	0.000268	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999730	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.762006		
Predicted MQL:	2.540021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00061	.001	.000	-.00004	.000	1
CAL2	10.000	9.8641	-.136	-1.36	.00256	.000	1
CAL3	250.00	240.60	-9.40	-3.76	.06408	.001	1
CAL4	1250.0	1214.9	-35.1	-2.81	.32375	.002	1
CAL5	2500.0	2544.6	44.6	1.79	.67838	.003	1

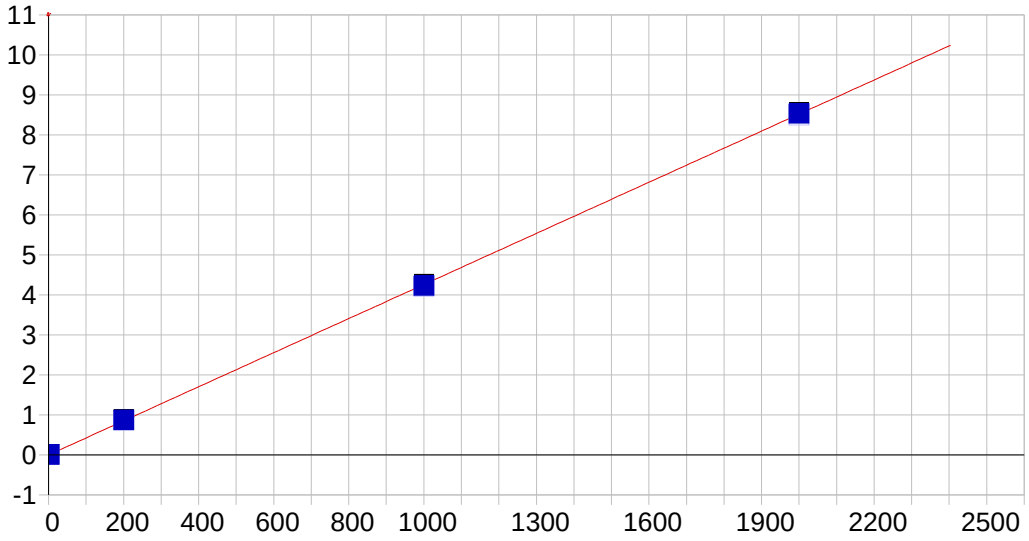


Ba 233.527 {445}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000668	Re-Slope:	1.000000
A1 (Gain):	0.003273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.002883		
Predicted MDL:	0.115426		
Predicted MQL:	0.384755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00852	-.009	.000	-.00070	.000	1
CAL2	200.00	205.86	5.86	2.93	.67301	.003	1
CAL3	2000.0	2041.9	41.9	2.10	6.6815	.119	1
CAL4	10000.	9894.5	-105.	-1.05	32.379	.134	1
CAL5	20000.	20058.	57.7	.289	65.638	.063	1

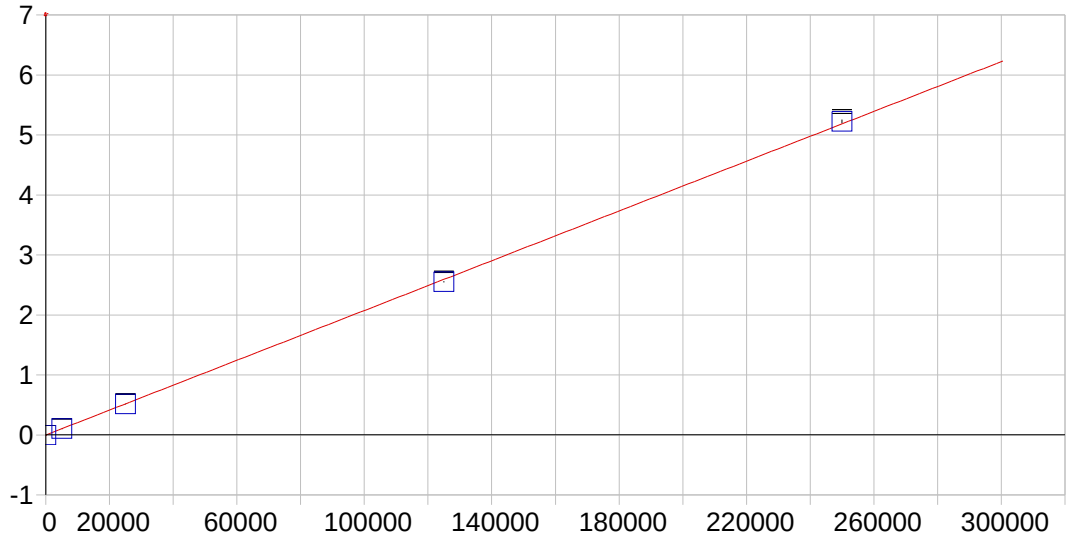


Be 313.042 {108}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000547	Re-Slope:	1.000000
A1 (Gain):	0.004260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.205077		
Predicted MQL:	0.683590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00007	.000	.000	-.00055	.000	1
CAL2	2.0000	1.9012	-.099	-4.94	.00760	.000	1
CAL3	200.00	203.89	3.89	1.94	.86323	.013	1
CAL4	1000.0	993.22	-6.78	-.678	4.2066	.033	1
CAL5	2000.0	2003.0	2.99	.149	8.4842	.023	1

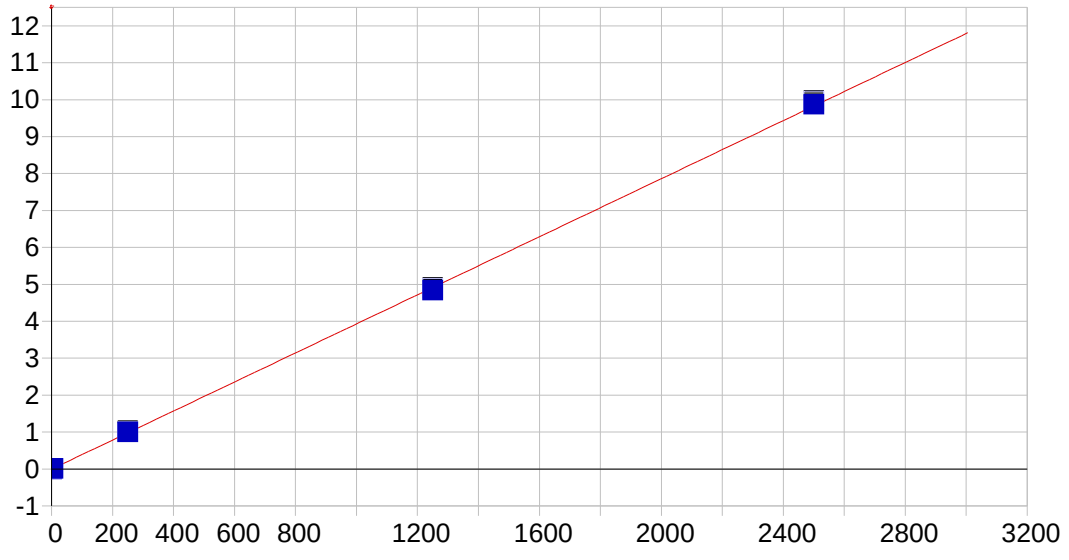


Ca 318.128 {106}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001240	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000409		
Predicted MDL:	9.718811		
Predicted MQL:	32.396035		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.01799	.018	.000	-.00124	.000	1
CAL2	5000.0	5052.7	52.7	1.05	.10356	.000	1
CAL3	25000.	24823.	-177.	-.706	.51365	.006	1
CAL4	125000.	123110.	-1890.	-1.52	2.5522	.012	1
CAL5	250000.	252020.	2020.	.807	5.2262	.032	1

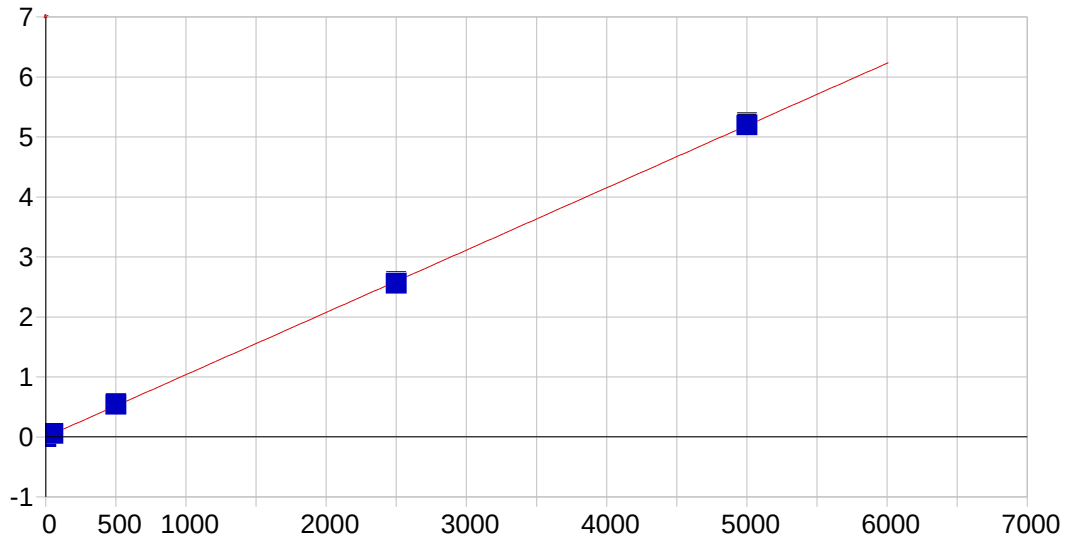


Cd 226.502 {449}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004241	Re-Slope:	1.000000
A1 (Gain):	0.003933	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.116945		
Predicted MQL:	0.389815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00007	-.000	.000	-.00424	.000	1
CAL2	4.0000	4.0139	.014	.348	.01161	.000	1
CAL3	250.00	255.89	5.89	2.35	1.0112	.020	1
CAL4	1250.0	1232.7	-17.3	-1.39	4.8890	.019	1
CAL5	2500.0	2511.4	11.4	.457	9.9633	.015	1

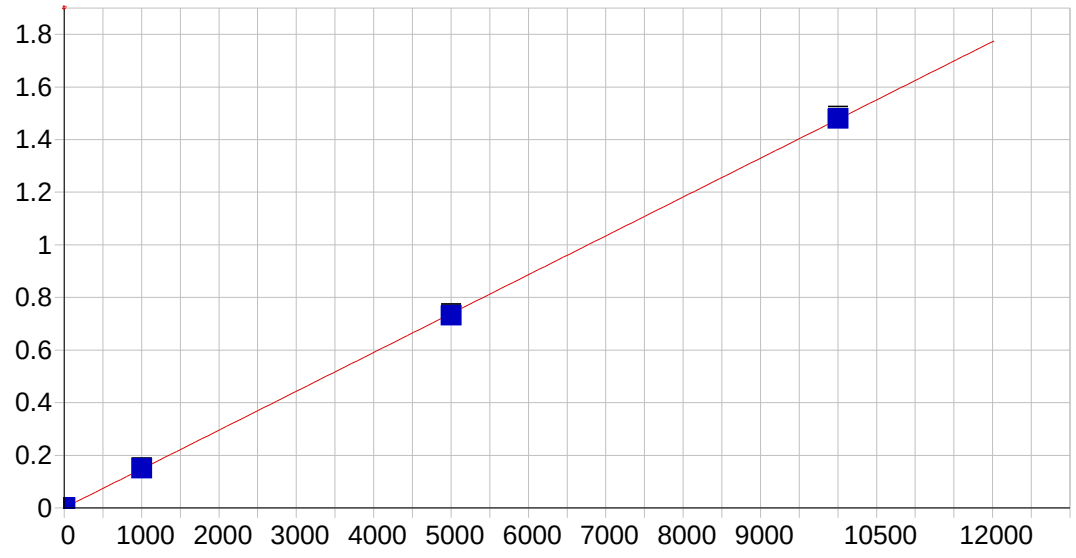


Co 228.616 {447}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001109	Re-Slope:	1.000000
A1 (Gain):	0.001038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000387		
Predicted MDL:	0.373551		
Predicted MQL:	1.245169		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00439	-.004	.000	-.00111	.001	1
CAL2	50.000	52.716	2.72	5.43	.05362	.001	1
CAL3	500.00	522.71	22.7	4.54	.54477	.009	1
CAL4	2500.0	2465.7	-34.3	-1.37	2.5748	.012	1
CAL5	5000.0	5008.9	8.91	.178	5.2312	.006	1

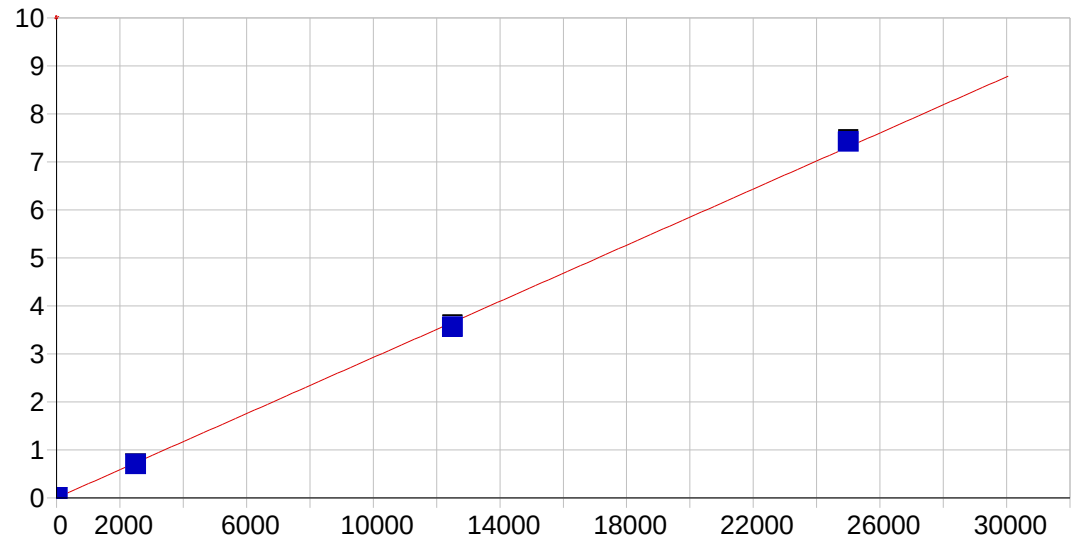


Cr 267.716 {126}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.000148	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.809406		
Predicted MQL:	2.698019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00035	.000	.000	.00023	.000	1
CAL2	10.000	9.5075	-.492	-4.92	.00163	.000	1
CAL3	1000.0	1020.5	20.5	2.05	.15095	.002	1
CAL4	5000.0	4958.6	-41.4	-.828	.73260	.004	1
CAL5	10000.	10021.	21.4	.214	1.4804	.008	1

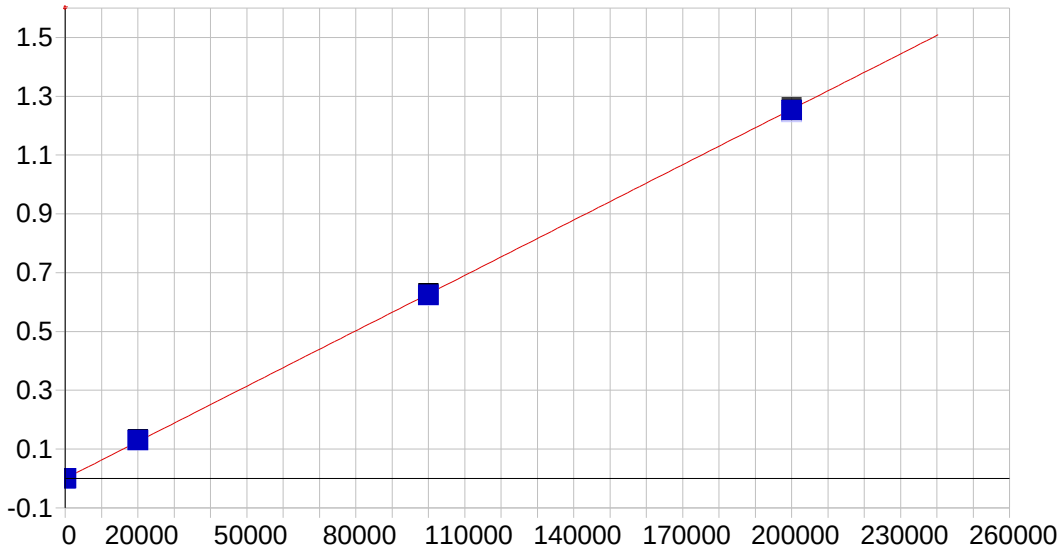


Cu 324.754 {104}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002670	Re-Slope:	1.000000
A1 (Gain):	0.000292	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999787	Status:	OK.
Std Error of Est:	0.000246		
Predicted MDL:	0.664763		
Predicted MQL:	2.215878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00270	.003	.000	.00267	.000	1
CAL2	25.000	23.421	-1.58	-6.31	.00951	.000	1
CAL3	2500.0	2409.4	-90.6	-3.62	.70661	.007	1
CAL4	12500.	12196.	-304.	-2.43	3.5659	.032	1
CAL5	25000.	25396.	396.	1.58	7.4227	.033	1

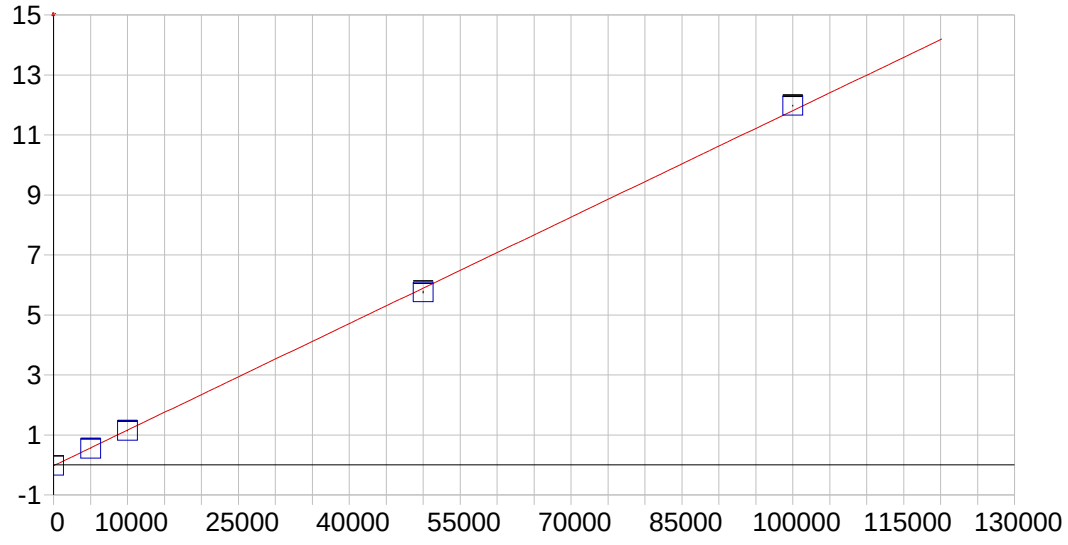


Fe 271.441 {124}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000093	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	18.455852		
Predicted MQL:	61.519505		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.04483	-.045	.000	.00009	.000	1
CAL2	150.00	189.87	39.9	26.6	.00121	.000	1
CAL3	20000.	20784.	784.	3.92	.12993	.001	1
CAL4	100000.	99589.	-411.	-.411	.62208	.004	1
CAL5	200000.	199590.	-410.	-.205	1.2467	.007	1

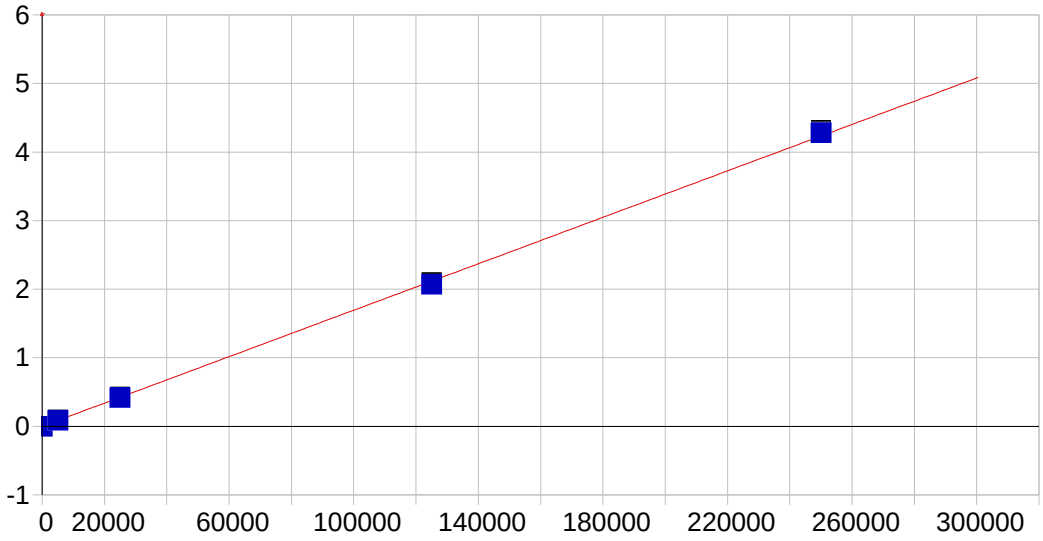


K 766.490 { 44}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.023589	Re-Slope:	1.000000
A1 (Gain):	0.000118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999842	Status:	OK.
Std Error of Est:	0.002461		
Predicted MDL:	49.825229		
Predicted MQL:	166.084096		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.28072	.281	.000	-.02356	.008	1
CAL2	5000.0	4837.2	-163.	-3.26	.54876	.009	1
CAL3	10000.	9841.7	-158.	-1.58	1.1409	.017	1
CAL4	50000.	48903.	-1100.	-2.19	5.7626	.040	1
CAL5	100000.	101420.	1420.	1.42	11.976	.025	1

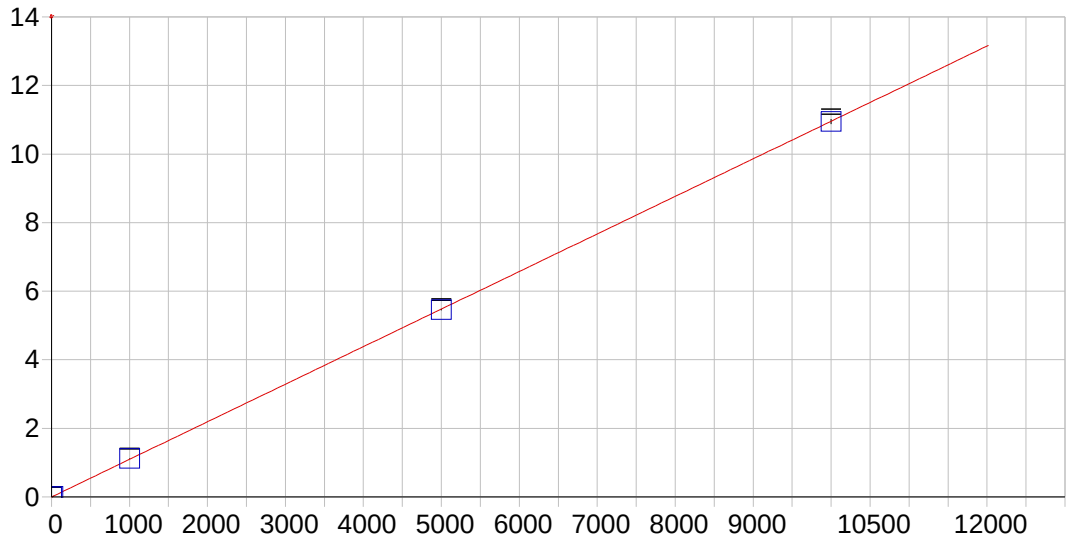


Mg 279.079 {121}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000479		
Predicted MDL:	7.798506		
Predicted MQL:	25.995021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.04914	.049	.000	.00001	.000	1
CAL2	5000.0	5066.9	66.9	1.34	.08580	.000	1
CAL3	25000.	24658.	-342.	-1.37	.41747	.004	1
CAL4	125000.	122350.	-2650.	-2.12	2.0714	.019	1
CAL5	250000.	252930.	2930.	1.17	4.2822	.029	1

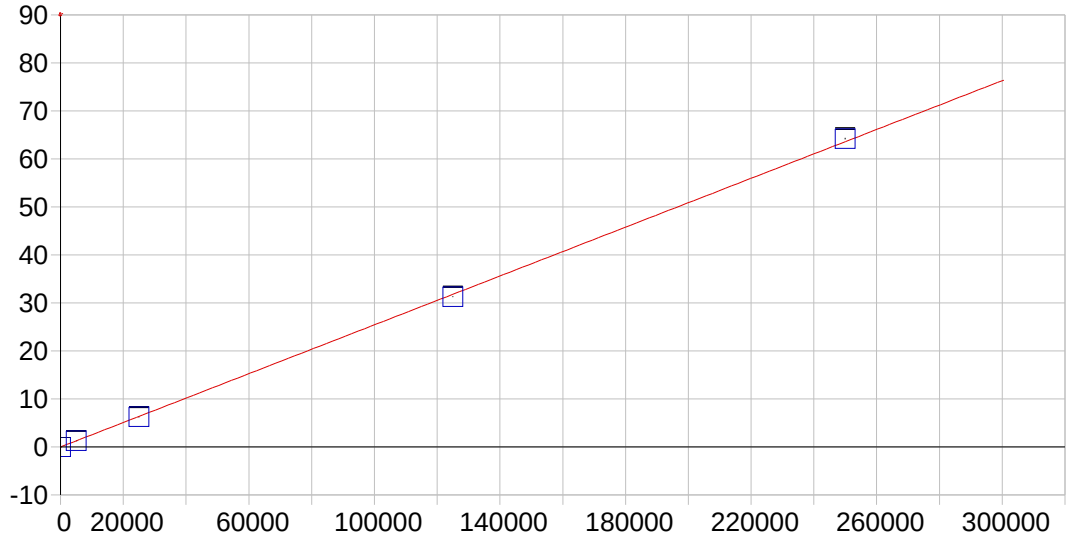


Mn 257.610 {131}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000188	Re-Slope:	1.000000
A1 (Gain):	0.001096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000127		
Predicted MDL:	0.103596		
Predicted MQL:	0.345320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00077	-.001	.000	.00019	.000	1
CAL2	15.000	15.497	.497	3.31	.01717	.000	1
CAL3	1000.0	1021.7	21.7	2.17	1.1196	.013	1
CAL4	5000.0	4984.7	-15.3	-.305	5.4618	.024	1
CAL5	10000.	9993.1	-6.92	-.069	10.949	.074	1

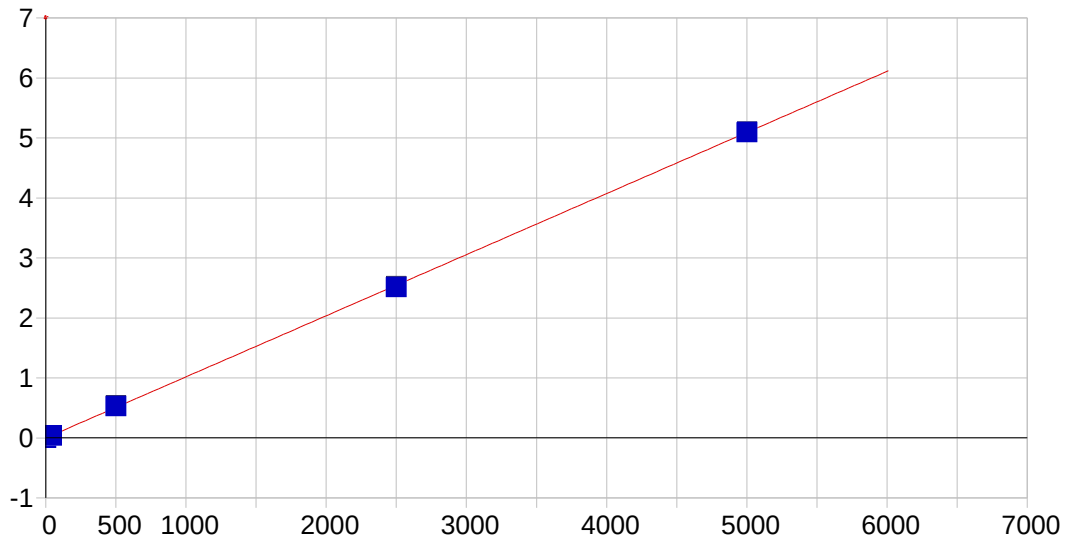


Na 589.592 { 57}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006105	Re-Slope:	1.000000
A1 (Gain):	0.000254	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.005907		
Predicted MDL:	19.625787		
Predicted MQL:	65.419289		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.20847	.208	.000	-.00605	.002	1
CAL2	5000.0	4901.0	-99.0	-1.98	1.2406	.006	1
CAL3	25000.	24602.	-398.	-1.59	6.2519	.097	1
CAL4	125000.	123010.	-1990.	-1.59	31.284	.090	1
CAL5	250000.	252490.	2490.	.995	64.220	.181	1

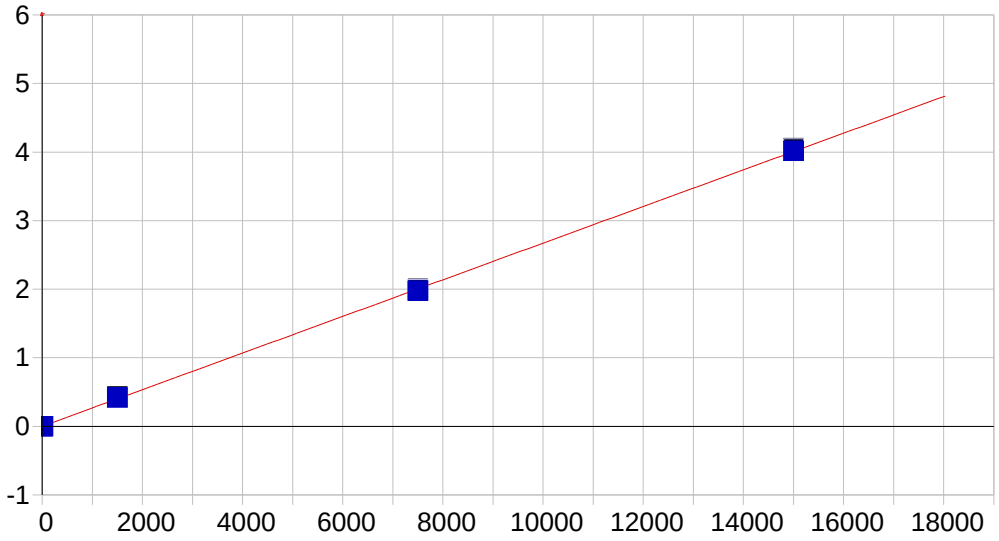


Ni 231.604 {446}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000948	Re-Slope:	1.000000
A1 (Gain):	0.001018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000324		
Predicted MDL:	0.436074		
Predicted MQL:	1.453579		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00337	-.003	.000	-.00095	.000	1
CAL2	40.000	42.003	2.00	5.01	.04183	.000	1
CAL3	500.00	522.64	22.6	4.53	.53172	.010	1
CAL4	2500.0	2469.0	-31.0	-1.24	2.5156	.010	1
CAL5	5000.0	5006.4	6.35	.127	5.1016	.007	1

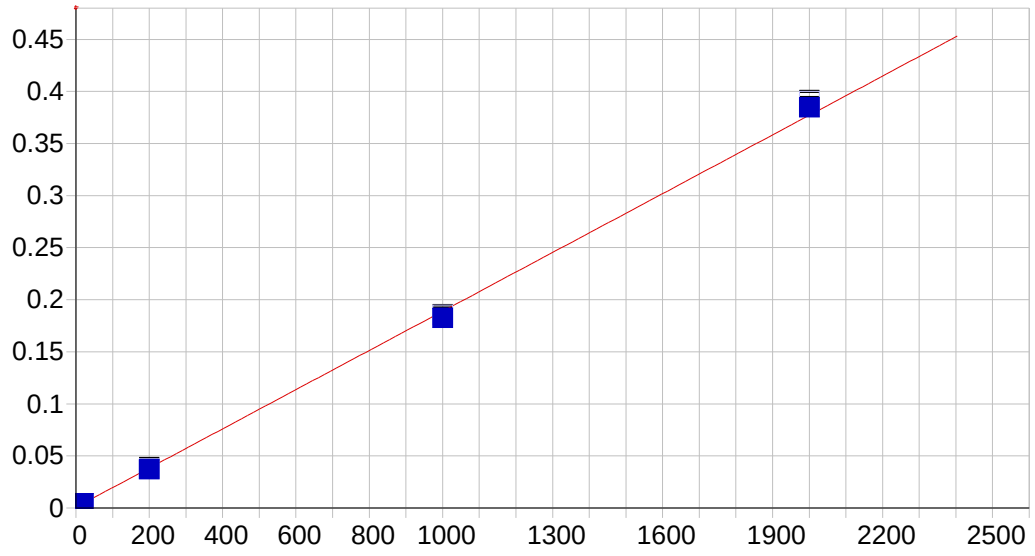


Pb 220.353 {453}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000267	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	1.545290		
Predicted MQL:	5.150968		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00063	.001	.000	.00001	.000	1
CAL2	10.000	9.3820	-.618	-6.18	.00262	.000	1
CAL3	1500.0	1564.6	64.6	4.31	.42122	.009	1
CAL4	7500.0	7404.5	-95.5	-1.27	1.9942	.008	1
CAL5	15000.	15032.	32.0	.213	4.0480	.007	1
CAL1	5.0000	4.5205	-.479	-9.59	.00122	.000	1

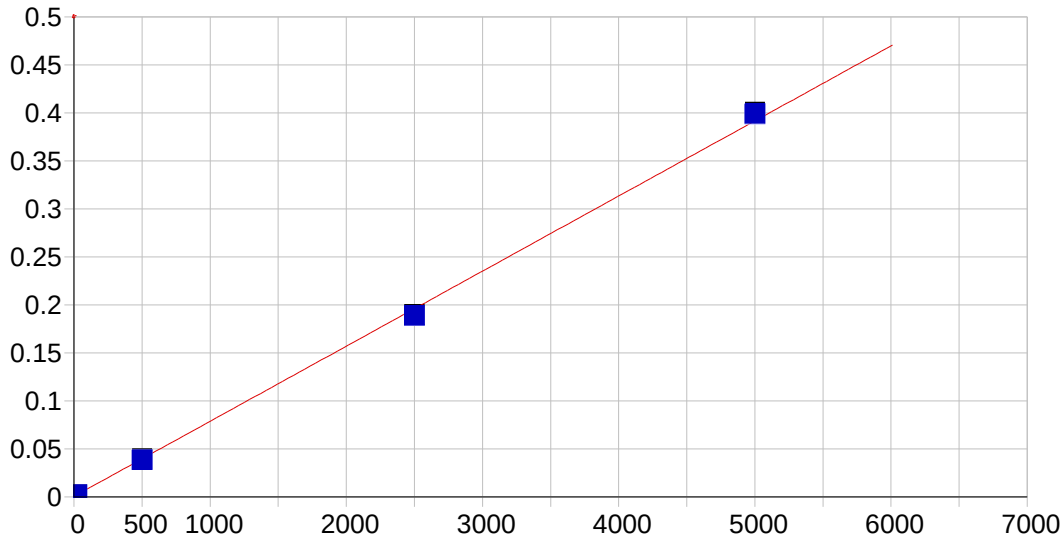


Sb 206.833 {463}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000716	Re-Slope:	1.000000
A1 (Gain):	0.000188	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999676	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	1.733308		
Predicted MQL:	5.777694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00071	.001	.000	.00072	.000	1
CAL2	20.000	20.289	.289	1.44	.00440	.000	1
CAL3	200.00	194.46	-5.54	-2.77	.03790	.001	1
CAL4	1000.0	965.65	-34.3	-3.43	.18537	.001	1
CAL5	2000.0	2040.1	40.1	2.00	.39049	.001	1
CAL1	10.000	9.5611	-.439	-4.39	.00252	.000	1

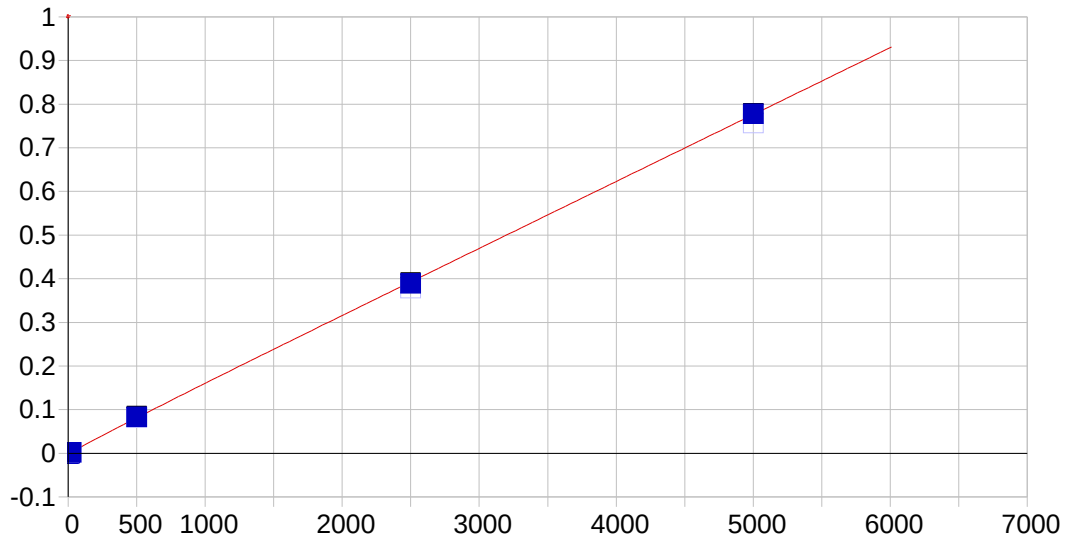


Se 196.090 {472}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000557	Re-Slope:	1.000000
A1 (Gain):	0.000078	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999653	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	3.269525		
Predicted MQL:	10.898415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00031	.000	.000	.00056	.000	1
CAL2	20.000	21.041	1.04	5.21	.00220	.000	1
CAL3	500.00	487.87	-12.1	-2.43	.03859	.001	1
CAL4	2500.0	2411.3	-88.7	-3.55	.18853	.001	1
CAL5	5000.0	5100.2	100.	2.00	.39822	.001	1
CAL1	5.0000	4.6275	-.373	-7.45	.00092	.000	1

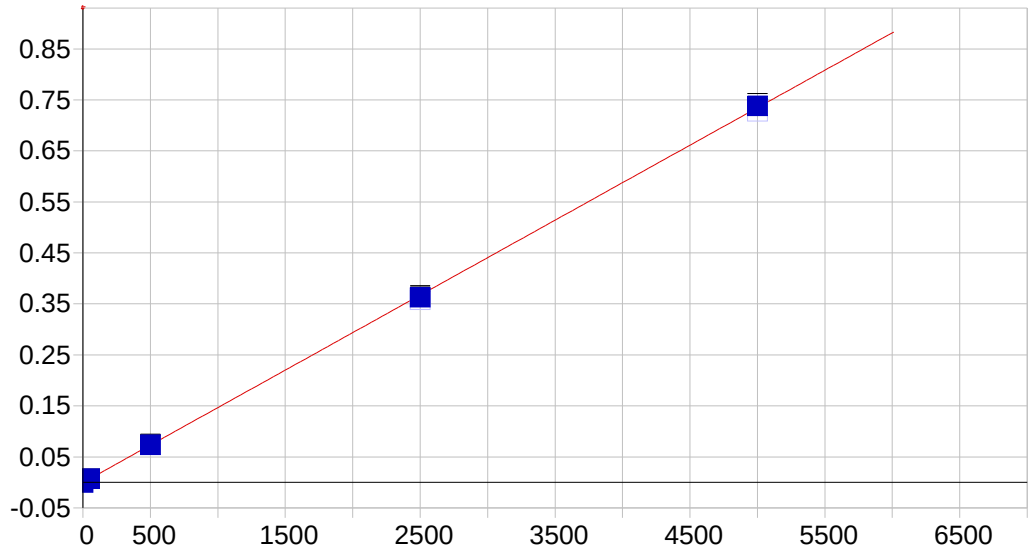


Tl 190.856 {477}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.002083	Re-Slope:	1.000000
A1 (Gain):	0.000213	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.960000		
Correlation:	0.999942	Status:	Warning Positive Curvature
Std Error of Est:	0.000026		
Predicted MDL:	1.357139		
Predicted MQL:	4.523796		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00084	.001	.000	-.00208	.000	1
CAL2	20.000	19.501	-.499	-2.50	.00141	.000	1
CAL3	500.00	514.25	14.3	2.85	.08135	.001	1
CAL4	2500.0	2476.2	-23.8	-.952	.37835	.002	1
CAL5	5000.0	5010.8	10.8	.216	.75629	.001	1
CAL1	10.000	8.7933	-1.21	-12.1	-.00037	.000	1

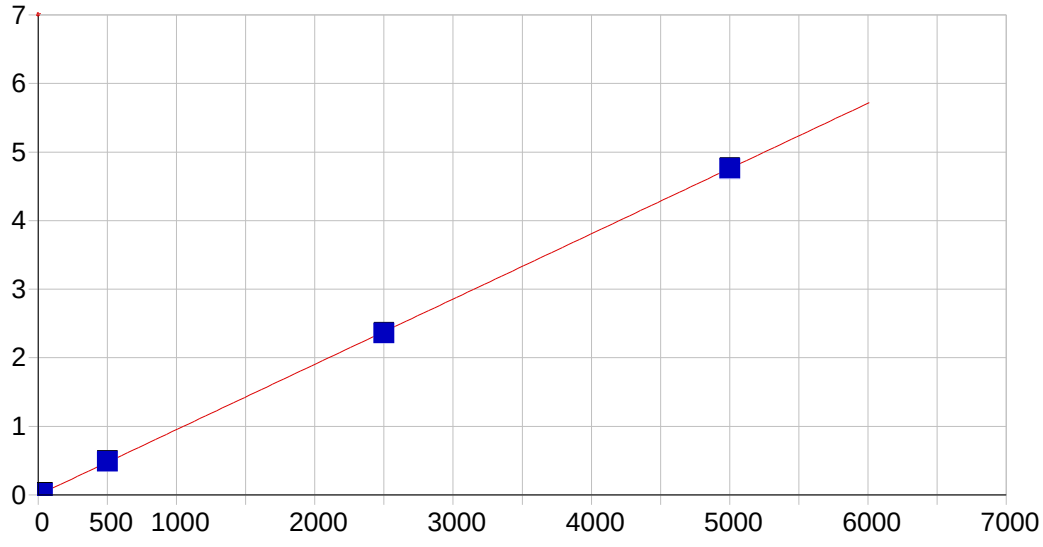


V 292.402 {115}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000378	Re-Slope:	1.000000
A1 (Gain):	0.000147	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	1.146183		
Predicted MQL:	3.820609		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00131	-.001	.000	-.00038	.000	1
CAL2	50.000	51.155	1.15	2.31	.00710	.000	1
CAL3	500.00	504.95	4.95	.990	.07280	.001	1
CAL4	2500.0	2471.8	-28.2	-1.13	.35771	.003	1
CAL5	5000.0	5022.1	22.1	.442	.72733	.005	1

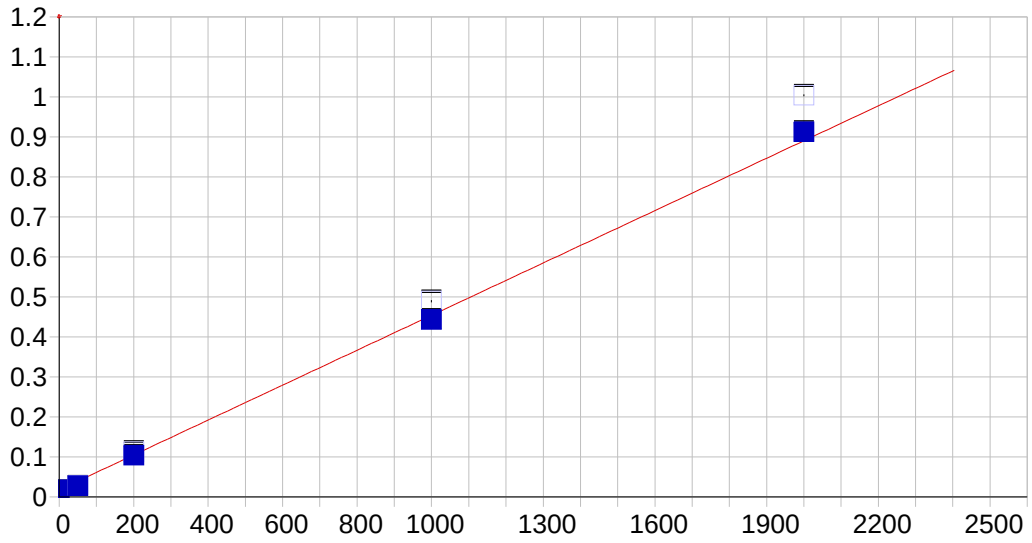


Zn 206.200 {463}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000419	Re-Slope:	1.000000
A1 (Gain):	0.000952	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000186		
Predicted MDL:	0.276659		
Predicted MQL:	0.922197		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00207	-.002	.000	.00042	.000	1
CAL2	30.000	31.320	1.32	4.40	.03022	.000	1
CAL3	500.00	516.40	16.4	3.28	.49090	.009	1
CAL4	2500.0	2479.5	-20.5	-.819	2.3553	.010	1
CAL5	5000.0	5002.8	2.75	.055	4.7518	.005	1

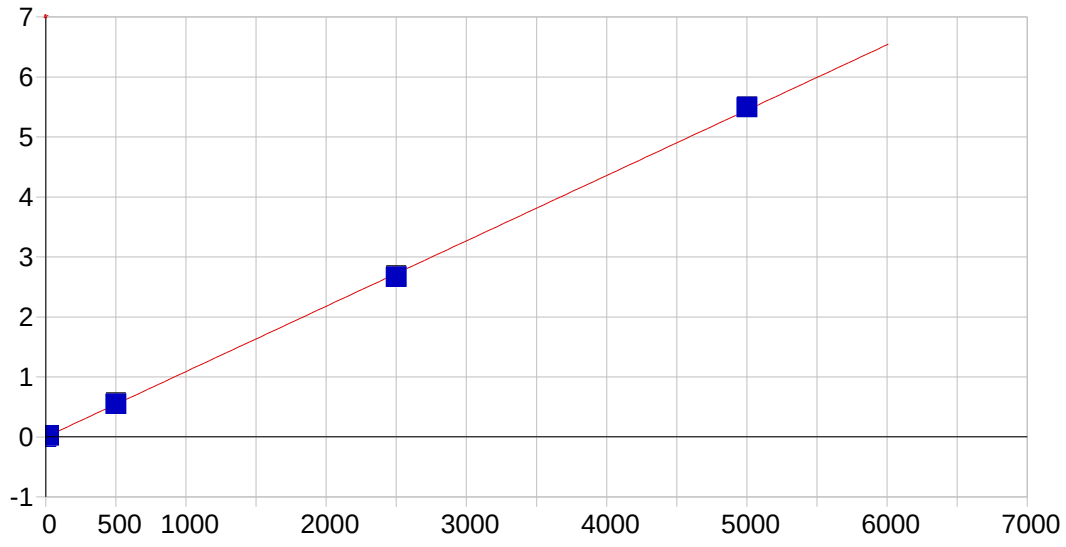


B 208.959 {461}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.017637	Re-Slope:	1.000000
A1 (Gain):	0.000436	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998070	Status:	OK.
Std Error of Est:	0.000493		
Predicted MDL:	0.701209		
Predicted MQL:	2.337362		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.02649	.026	.000	.01765	.000	1
CAL2	50.000	24.114	-25.9	-51.8	.02851	.000	1
CAL3	200.00	197.36	-2.64	-1.32	.11292	.002	1
CAL4	1000.0	975.74	-24.3	-2.43	.48922	.003	1
CAL5	2000.0	2050.7	50.7	2.54	1.0041	.003	1

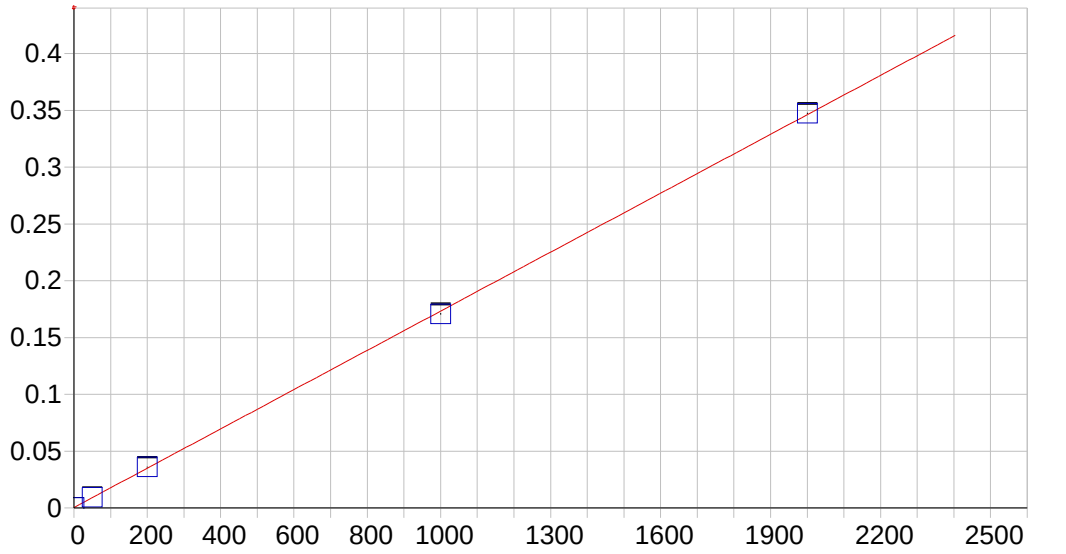


Mo 202.030 {467}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000294	Re-Slope:	1.000000
A1 (Gain):	0.001089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.276253		
Predicted MQL:	0.920842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00011	.000	.000	-.00029	.000	1
CAL2	20.000	19.862	-.138	-.691	.02135	.000	1
CAL3	500.00	506.55	6.55	1.31	.55223	.009	1
CAL4	2500.0	2449.1	-50.9	-2.03	2.6712	.011	1
CAL5	5000.0	5044.5	44.5	.889	5.5020	.007	1

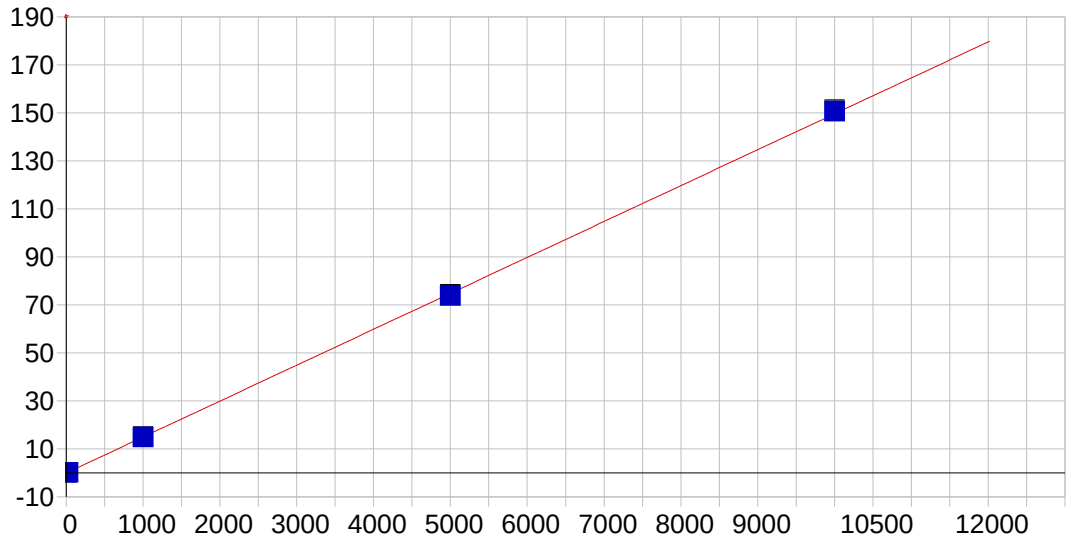


Sn 189.989 {477}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000384	Re-Slope:	1.000000
A1 (Gain):	0.000173	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	1.102249		
Predicted MQL:	3.674165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00273	-.003	.000	.00038	.000	1
CAL2	50.000	51.726	1.73	3.45	.00933	.000	1
CAL3	200.00	206.26	6.26	3.13	.03604	.000	1
CAL4	1000.0	985.53	-14.5	-1.45	.17077	.001	1
CAL5	2000.0	2006.5	6.48	.324	.34729	.001	1

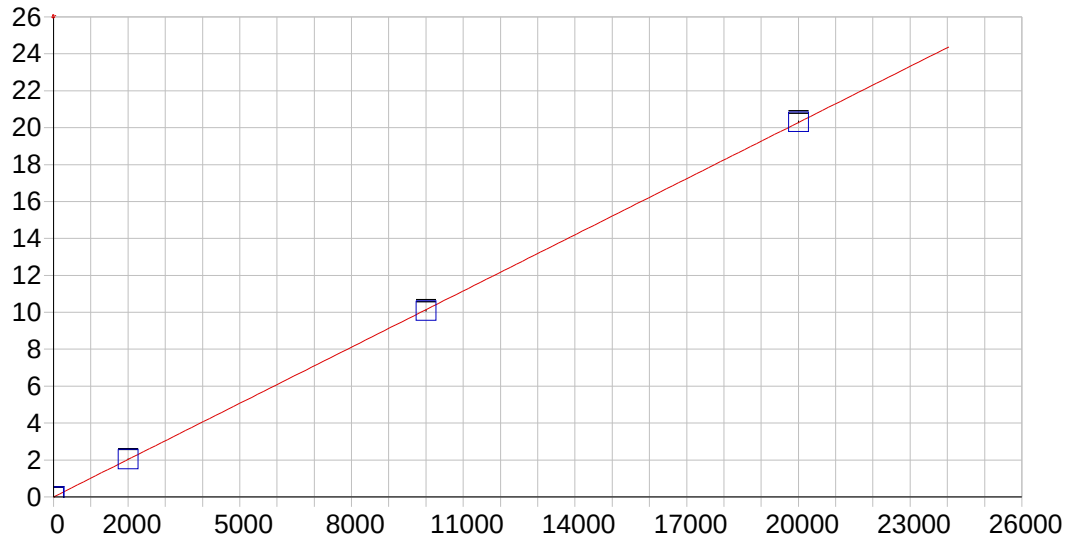


Sr 407.771 { 83}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002193	Re-Slope:	1.000000
A1 (Gain):	0.014963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.003157		
Predicted MDL:	0.138332		
Predicted MQL:	0.461108		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00074	.001	.000	-.00218	.001	1
CAL2	20.000	19.389	-.611	-3.05	.29018	.003	1
CAL3	1000.0	1000.3	.260	.026	14.976	.241	1
CAL4	5000.0	4933.8	-66.2	-1.32	73.881	.335	1
CAL5	10000.	10067.	66.5	.665	150.74	.477	1

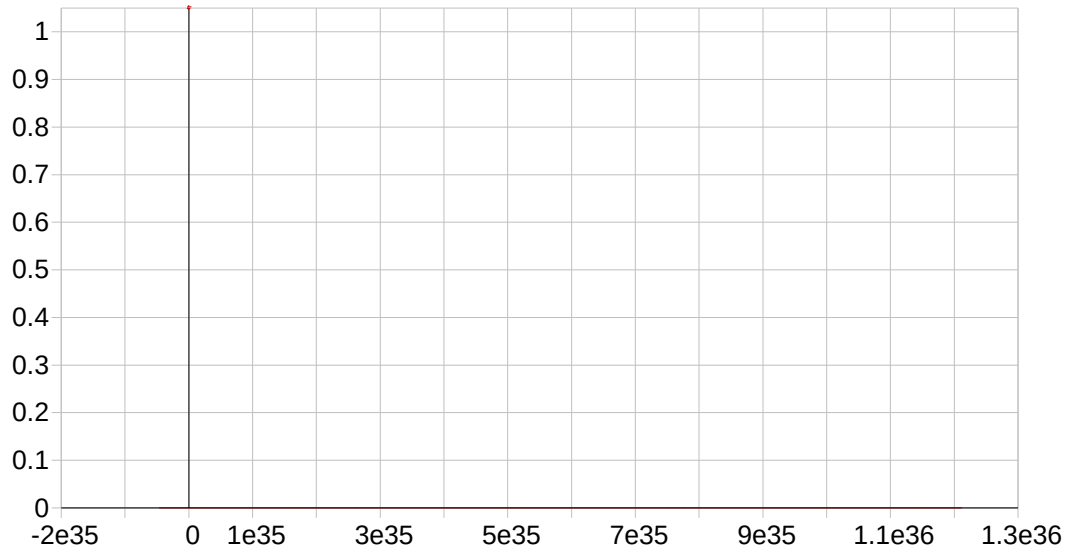


Ti 334.941 {101}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000436	Re-Slope:	1.000000
A1 (Gain):	0.001014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000132		
Predicted MDL:	0.240101		
Predicted MQL:	0.800337		

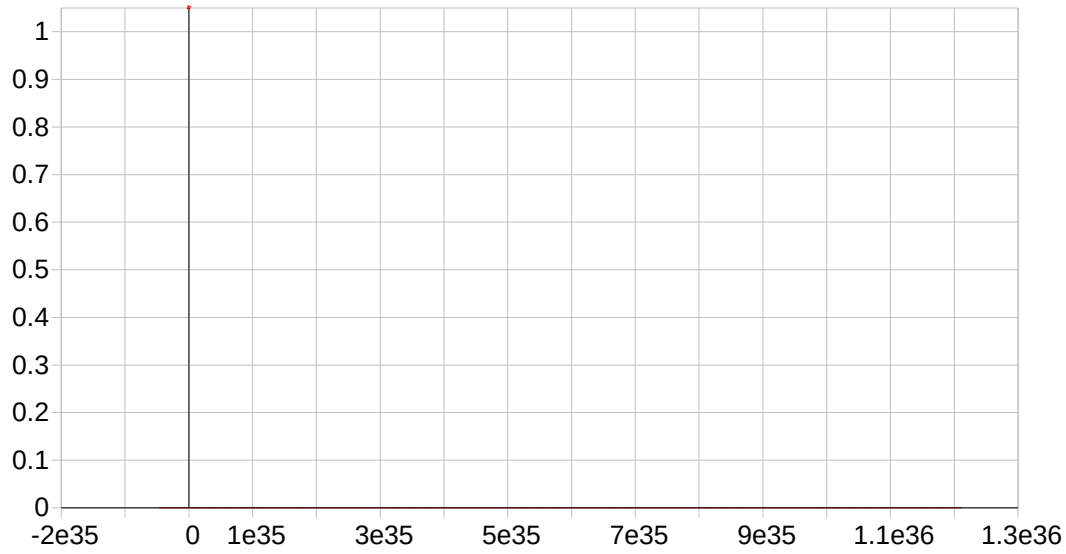
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00082	-.001	.000	.00043	.000	1
CAL2	20.000	20.677	.677	3.39	.02140	.000	1
CAL3	2000.0	2021.1	21.1	1.05	2.0498	.023	1
CAL4	10000.	9951.8	-48.2	-.482	10.092	.061	1
CAL5	20000.	20026.	26.5	.132	20.307	.068	1



Y 224.306 {450}*

Date of Fit:	3/19/2018 12:21:39	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	183.492520				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

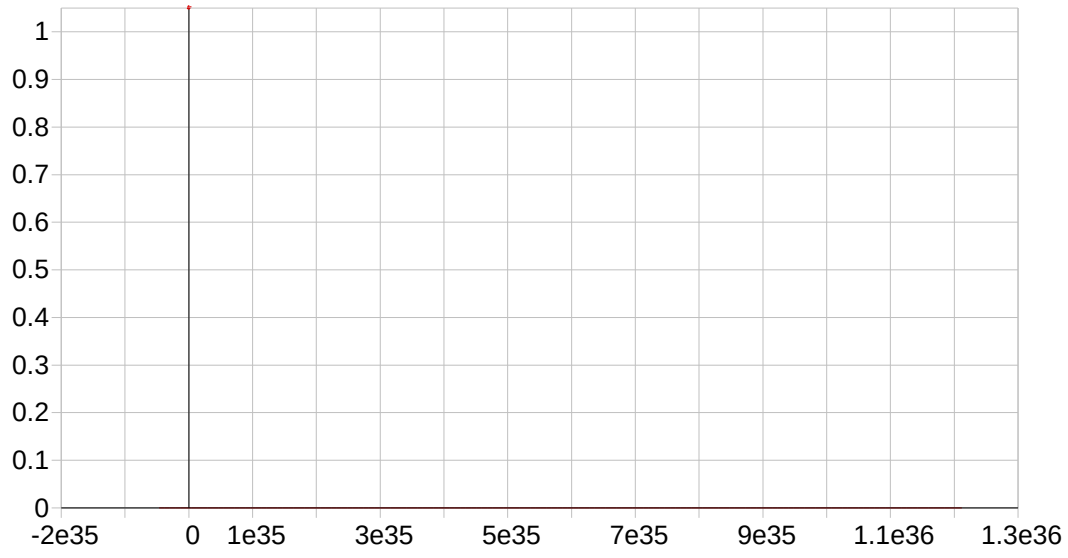
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

Date of Fit:	3/19/2018 12:21:39	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

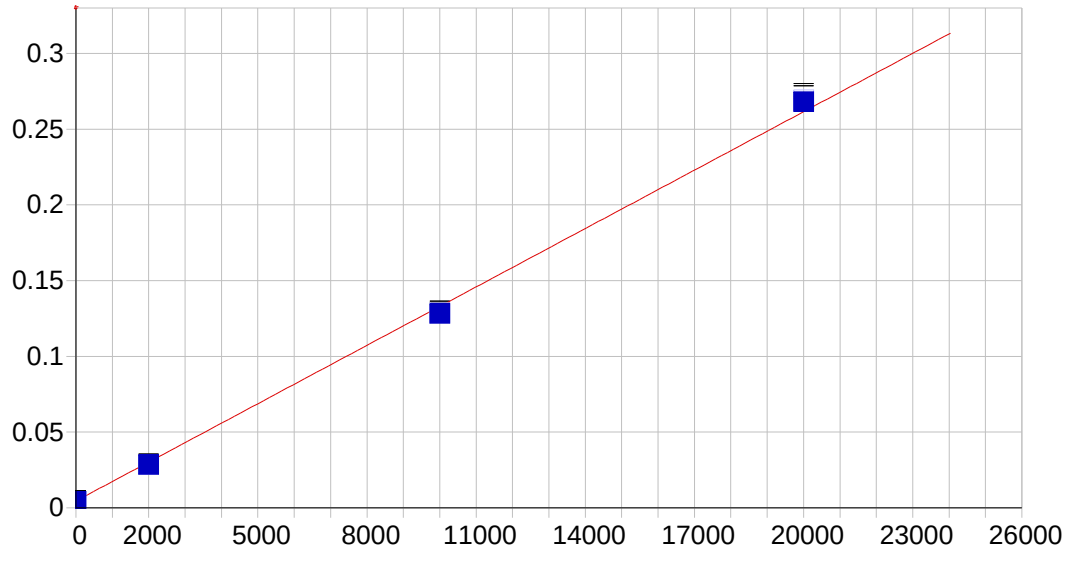


Y 371.030 { 91}*

Date of Fit:	3/19/2018 12:21:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	192.759705		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Si 288.158 {117}

Date of Fit:	3/19/2018 12:48:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004489	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.999446		Status:	OK.		
Std Error of Est:		0.000154					
Predicted MDL:		42.656897					
Predicted MQL:		142.189657					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**
ICIS Cal Blk	.00000	.16003	.160	.000	.00449	.000	1
CAL5	20000.	20506.	506.	2.53	.26940	.004	1
CAL3	2000.0	1863.3	-137.	-6.84	.02857	.000	1
CAL4	10000.	9630.3	-370.	-3.70	.12894	.001	1

Sample Name: ICIS Cal Blk Acquired: 3/19/2018 12:24:58 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0010**	**-.0001**	**-.0000**	**-.0007**	**-.0005**	**-.0012**
Stddev	.0018	.0002	.0001	.0003	.0004	.0001
%RSD	182.4	275.7	187.7	48.95	78.16	11.29
#1	.0010	-.0000	-.0001	-.0005	-.0009	-.0014
#2	-.0016	.0001	-.0000	-.0011	-.0001	-.0012
#3	-.0023	-.0004	.0000	-.0005	-.0007	-.0011

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0042**	**-.0011**	**.0002**	**.0027**	**.0001**	**-.0236**
Stddev	.0005	.0005	.0001	.0001	.0001	.0077
%RSD	11.51	47.78	27.76	1.876	126.0	32.53
#1	-.0037	-.0016	.0003	.0027	-.0000	-.0155
#2	-.0045	-.0006	.0002	.0026	.0002	-.0307
#3	-.0045	-.0011	.0002	.0027	.0001	-.0245

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0002**	**-.0061**	**-.0010**	**.0000**	**.0007**
Stddev	.0000	.0001	.0020	.0004	.0002	.0002
%RSD	389.1	51.95	33.07	46.18	2392.	21.64
#1	.0000	.0003	-.0047	-.0011	.0003	.0005
#2	-.0000	.0002	-.0051	-.0013	-.0002	.0008
#3	-.0000	.0001	-.0084	-.0005	-.0001	.0008

Sample Name: ICIS Cal Blk Acquired: 3/19/2018 12:24:58 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0006**	**-.0021**	**-.0004**	**.0004**	**.0176**	**-.0003**
Stddev	.0002	.0002	.0001	.0002	.0004	.0001
%RSD	33.87	7.218	34.82	55.01	2.389	50.97
#1	.0006	-.0021	-.0004	.0006	.0176	-.0003
#2	.0007	-.0022	-.0005	.0002	.0172	-.0004
#3	.0003	-.0019	-.0003	.0004	.0181	-.0001

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0004**	**-.0022**	**.0004**	**.0045**
Stddev	.0001	.0011	.0002	.0004
%RSD	36.11	49.20	42.50	9.452
#1	.0004	-.0024	.0006	.0042
#2	.0005	-.0031	.0002	.0043
#3	.0002	-.0010	.0004	.0050

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2685.8**	**24478.**	**2080.4**
Stddev	33.9	207.	30.7
%RSD	1.2607	.84519	1.4757
#1	2663.1	24712.	2094.7
#2	2724.7	24403.	2045.2
#3	2669.6	24320.	2101.3

Sample Name: CAL1 Acquired: 3/19/2018 12:29:02 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**.0012**	**.0025**	**.0009**	**-.0004**
Stddev	.0001	.0003	.0002	.0001	.0002
%RSD	46.90	26.09	8.232	13.84	63.55
#1	.0001	.0016	.0027	.0009	-.0005
#2	.0001	.0011	.0023	.0010	-.0001
#3	.0002	.0010	.0026	.0008	-.0005

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	**2776.8**
Stddev	25.0
%RSD	.90128
#1	2771.5
#2	2804.0
#3	2754.8

Sample Name: CAL2 Acquired: 3/19/2018 12:33:05 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0124**	**.0010**	**.0026**	**.6730**	**.0076**	**.1036**
Stddev	.0002	.0000	.0001	.0031	.0002	.0003
%RSD	1.737	1.319	5.350	.4607	2.341	.2748
#1	.0123	.0010	.0026	.6757	.0075	.1039
#2	.0121	.0010	.0027	.6738	.0075	.1034
#3	.0126	.0010	.0024	.6696	.0078	.1034

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0116**	**.0536**	**.0016**	**.0095**	**.0012**	**.5488**
Stddev	.0002	.0006	.0001	.0001	.0001	.0086
%RSD	2.095	1.094	5.975	.8103	6.801	1.569
#1	.0119	.0543	.0016	.0095	.0013	.5507
#2	.0115	.0533	.0017	.0096	.0011	.5393
#3	.0114	.0533	.0015	.0095	.0013	.5562

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0858**	**.0172**	**1.241**	**.0418**	**.0026**	**.0044**
Stddev	.0001	.0002	.006	.0002	.0001	.0001
%RSD	.1013	1.118	.4902	.5076	2.837	2.214
#1	.0857	.0170	1.247	.0421	.0026	.0043
#2	.0858	.0172	1.235	.0417	.0025	.0044
#3	.0859	.0174	1.240	.0417	.0027	.0045

Sample Name: CAL2 Acquired: 3/19/2018 12:33:05 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0022**	**.0014**	**.0071**	**.0302**	**.0285**	**.0213**
Stddev	.0002	.0001	.0001	.0002	.0003	.0003
%RSD	7.473	7.980	1.158	.6690	.9274	1.172
#1	.0023	.0013	.0071	.0305	.0285	.0216
#2	.0022	.0015	.0070	.0301	.0282	.0214
#3	.0020	.0014	.0072	.0301	.0288	.0211

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	**.0093**	**.2902**	**.0214**
Stddev	.0001	.0027	.0001
%RSD	1.343	.9314	.6213
#1	.0095	.2918	.0213
#2	.0093	.2871	.0213
#3	.0092	.2916	.0216

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2744.3**	**24993.**	**2169.8**
Stddev	4.6	132.	24.7
%RSD	.16825	.52879	1.1384
#1	2749.5	25098.	2179.8
#2	2742.6	25036.	2187.9
#3	2740.8	24844.	2141.7

Sample Name: icv 5669904 Acquired: 3/19/2018 12:48:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**125000.**	**2449.**	**1237.**	**10040.**	**1011.**	**125300.**
Stddev	422.	15.	2.	51.	4.	87.
%RSD	.3374	.6120	.1867	.5108	.4105	.0691
#1	124900.	2461.	1236.	10050.	1010.	125200.
#2	125500.	2455.	1236.	10080.	1016.	125300.
#3	124700.	2432.	1240.	9980.	1008.	125300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1251.**	**2499.**	**5056.**	**12440.**	**101400.**	**49720.**
Stddev	6.	12.	3.	13.	119.	137.
%RSD	.4464	.4640	.0647	.1044	.1174	.2751
#1	1253.	2501.	5052.	12450.	101300.	49630.
#2	1255.	2510.	5058.	12450.	101500.	49870.
#3	1245.	2487.	5058.	12430.	101400.	49640.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 5669904 Acquired: 3/19/2018 12:48:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124600.**	**5066.**	**124400.**	**2507.**	**7520.**	**979.3**
Stddev	216.	3.	360.	11.	29.	6.2
%RSD	.1734	.0524	.2890	.4214	.3795	.6304
#1	124400.	5063.	124400.	2513.	7532.	982.2
#2	124700.	5067.	124800.	2514.	7541.	983.4
#3	124900.	5068.	124100.	2495.	7488.	972.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2436.**	**2511.**	**2513.**	**2518.**	**998.9**	**2490.**
Stddev	19.	5.	4.	6.	5.9	12.
%RSD	.7666	.1968	.1620	.2442	.5879	.4833
#1	2444.	2514.	2510.	2519.	1002.	2494.
#2	2450.	2514.	2518.	2524.	1002.	2499.
#3	2415.	2505.	2511.	2512.	992.2	2476.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 5669904 Acquired: 3/19/2018 12:48:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1001.**	**5010.**	**10130.**	**9700.**
Stddev	4.	20.	5.	61.
%RSD	.3876	.3939	.0503	.6265
#1	1005.	5003.	10130.	9709.
#2	1002.	5033.	10130.	9755.
#3	997.0	4995.	10140.	9634.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2519.7**	**22937.**	**2063.1**
Stddev	5.5	41.	7.7
%RSD	.21781	.17891	.37126
#1	2526.0	22978.	2071.9
#2	2515.9	22937.	2058.5
#3	2517.2	22896.	2058.8

Sample Name: CAL3 Acquired: 3/19/2018 12:37:05 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.390**	**.0361**	**.0641**	**6.681**	**.8632**	**.5137**
Stddev	.022	.0009	.0007	.119	.0127	.0056
%RSD	1.593	2.517	1.153	1.781	1.474	1.086
#1	1.415	.0369	.0649	6.801	.8778	.5201
#2	1.376	.0363	.0636	6.680	.8543	.5103
#3	1.377	.0351	.0637	6.563	.8576	.5105

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.011**	**.5448**	**.1509**	**.7066**	**.1299**	**1.141**
Stddev	.020	.0093	.0016	.0071	.0014	.017
%RSD	1.996	1.709	1.058	1.003	1.063	1.504
#1	1.027	.5546	.1528	.7147	.1315	1.161
#2	1.018	.5436	.1499	.7018	.1291	1.132
#3	.9886	.5361	.1502	.7033	.1291	1.130

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4175**	**1.120**	**6.252**	**.5317**	**.4212**	**.0379**
Stddev	.0037	.013	.097	.0101	.0085	.0010
%RSD	.8851	1.198	1.547	1.896	2.020	2.599
#1	.4217	1.135	6.363	.5420	.4300	.0387
#2	.4149	1.112	6.191	.5312	.4207	.0382
#3	.4158	1.112	6.201	.5219	.4130	.0368

Sample Name: CAL3 Acquired: 3/19/2018 12:37:05 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0386**	**.0813**	**.0728**	**.4909**	**.1129**	**.5522**
Stddev	.0008	.0013	.0008	.0091	.0019	.0089
%RSD	1.957	1.556	1.031	1.859	1.704	1.606
#1	.0394	.0825	.0737	.4997	.1144	.5605
#2	.0384	.0816	.0724	.4916	.1136	.5534
#3	.0379	.0800	.0723	.4815	.1107	.5428

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0360**	**14.98**	**2.050**	**.0286**
Stddev	.0004	.24	.023	.0004
%RSD	1.197	1.607	1.128	1.341
#1	.0365	15.25	2.076	.0290
#2	.0358	14.81	2.034	.0283
#3	.0358	14.87	2.039	.0284

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2710.8**	**24583.**	**2164.2**
Stddev	44.0	103.	21.2
%RSD	1.6229	.41971	.98102
#1	2664.7	24539.	2141.7
#2	2715.2	24701.	2183.9
#3	2752.4	24509.	2166.8

Sample Name: icsa 5614750 Acquired: 3/19/2018 12:59:56 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**492500.**	**-.6449**	**-.2475**	**-.3102**	**-.0784**	**510400.**
Stddev	2254.	4.162	.2558	.2059	.1251	3776.
%RSD	.4577	645.3	103.4	66.38	159.5	.7397
#1	490400.	-5.450	.0293	-.3474	.0270	506700.
#2	492300.	1.693	-.4752	-.0882	-.2167	510400.
#3	494900.	1.822	-.2966	-.4950	-.0455	514200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2069**	**-3.883**	**-.7205**	**-6.494**	**198400.**	**30.34**
Stddev	.1185	.005	1.477	.297	1333.	40.27
%RSD	57.27	.1413	205.1	4.573	.6718	132.7
#1	-.1577	-3.878	-1.998	-6.740	197200.	10.14
#2	-.3421	-3.889	-1.061	-6.579	198000.	4.166
#3	-.1209	-3.883	.8975	-6.164	199800.	76.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 5614750 Acquired: 3/19/2018 12:59:56 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**522000.**	**-2.062**	**63.77**	**-.4923**	**-1.292**	**-.4856**
Stddev	4965.	.108	18.67	.3954	.464	.8202
%RSD	.9512	5.226	29.27	80.33	35.91	168.9
#1	517600.	-1.975	58.02	-.4294	-1.201	-1.163
#2	521000.	-2.183	48.65	-.1321	-.8795	.4264
#3	527400.	-2.029	84.64	-.9153	-1.794	-.7201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.670**	**-1.930**	**4.831**	**3.079**	**-30.17**	**-1.422**
Stddev	5.396	2.215	1.185	.315	.79	.202
%RSD	147.0	114.8	24.54	10.24	2.611	14.17
#1	-5.103	-4.472	3.779	3.386	-29.57	-1.319
#2	-8.206	-.9065	6.115	3.095	-31.06	-1.293
#3	2.298	-.4120	4.598	2.756	-29.88	-1.654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 5614750 Acquired: 3/19/2018 12:59:56 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**2.254**	**-11.10**	**.0515**	F **-218.2**
Stddev	2.025	.23	.1427	20.9
%RSD	89.84	2.102	277.1	9.584
#1	4.508	-10.94	.1897	-224.0
#2	1.668	-11.00	.0600	-235.6
#3	.5864	-11.37	-.0952	-195.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2484.3**	**21808.**	**2114.6**
Stddev	21.1	170.	21.5
%RSD	.85060	.77769	1.0185
#1	2459.9	21981.	2132.2
#2	2495.1	21800.	2121.1
#3	2497.8	21642.	2090.6

Sample Name: CAL4 Acquired: 3/19/2018 12:40:49 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.840**	**.1816**	**.3238**	**32.38**	**4.207**	**2.552**
Stddev	.036	.0011	.0020	.13	.033	.012
%RSD	.5246	.5928	.6132	.4153	.7900	.4632
#1	6.806	.1823	.3245	32.39	4.169	2.550
#2	6.835	.1820	.3253	32.51	4.217	2.565
#3	6.878	.1803	.3215	32.24	4.233	2.542

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.889**	**2.575**	**.7326**	**3.566**	**.6221**	**5.763**
Stddev	.019	.012	.0040	.032	.0043	.040
%RSD	.3905	.4530	.5496	.8993	.6842	.6946
#1	4.894	2.582	.7328	3.581	.6216	5.729
#2	4.905	2.581	.7365	3.588	.6266	5.752
#3	4.868	2.561	.7285	3.529	.6181	5.807

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.071**	**5.462**	**31.28**	**2.516**	**1.994**	**.1854**
Stddev	.018	.024	.09	.010	.008	.0007
%RSD	.8933	.4472	.2890	.4010	.4051	.3637
#1	2.074	5.459	31.23	2.516	1.997	.1854
#2	2.088	5.487	31.24	2.525	2.000	.1860
#3	2.052	5.439	31.39	2.505	1.985	.1847

Sample Name: CAL4 Acquired: 3/19/2018 12:40:49 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1885**	**.3784**	**.3577**	**2.355**	**.4892**	**2.671**
Stddev	.0009	.0018	.0028	.010	.0025	.011
%RSD	.4880	.4682	.7857	.4373	.5180	.4189
#1	.1894	.3798	.3578	2.353	.4918	2.672
#2	.1886	.3789	.3604	2.366	.4891	2.682
#3	.1876	.3764	.3548	2.346	.4868	2.660

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1708**	**73.88**	**10.09**	**.1289**
Stddev	.0007	.34	.06	.0009
%RSD	.3876	.4534	.6027	.6913
#1	.1712	73.54	10.10	.1299
#2	.1711	73.89	10.15	.1289
#3	.1700	74.21	10.03	.1281

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2554.4**	**23258.**	**2100.0**
Stddev	4.6	102.	25.5
%RSD	.17890	.43915	1.2144
#1	2556.9	23348.	2114.5
#2	2549.1	23147.	2115.0
#3	2557.2	23279.	2070.6

Sample Name: MB 460-504339/1-A@2 Acquired: 3/19/2018 13:15:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**23.52**	**-.6643**	**.4230**	**.0659**	**.0018**	**-1.513**
Stddev	.76	1.537	.1309	.0917	.1301	6.563
%RSD	3.239	231.4	30.94	139.1	7322.	433.9
#1	23.00	.0619	.4345	-.0307	.0407	-7.137
#2	23.18	.3753	.2867	.0766	-.1433	5.699
#3	24.40	-2.430	.5477	.1517	.1080	-3.101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0932**	**.2790**	**-.8638**	**-.4021**	**20.01**	**35.95**
Stddev	.0505	.5635	.4450	.6279	12.07	8.35
%RSD	54.18	202.0	51.52	156.1	60.35	23.23
#1	-.1144	.8263	-.4290	.1761	32.34	44.31
#2	-.1297	-.2994	-.8441	-.3125	8.203	35.93
#3	-.0356	.3102	-1.318	-1.070	19.48	27.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504339/1-A@2 Acquired: 3/19/2018 13:15:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.644**	**.2676**	**12.67**	**.4675**	**-.6577**	**.0452**
Stddev	7.408	.1309	4.43	.1786	1.398	1.529
%RSD	450.6	48.92	34.97	38.20	212.5	3387.
#1	3.607	.4169	9.330	.2919	.9552	-1.705
#2	7.873	.1725	10.98	.6490	-1.416	1.123
#3	-6.548	.2134	17.69	.4616	-1.513	.7178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4153**	**-.1868**	**.6844**	**.0813**	**-29.65**	**1.210**
Stddev	1.400	.4202	1.548	.0341	.05	.793
%RSD	337.0	224.9	226.2	41.97	.1662	65.54
#1	-1.023	.2790	2.008	.0440	-29.65	2.094
#2	.4955	-.5374	-1.018	.0889	-29.70	.9783
#3	1.773	-.3022	1.063	.1110	-29.60	.5591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504339/1-A@2 Acquired: 3/19/2018 13:15:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-1.023**	**.0240**	**.5398**	F **-247.0**
Stddev	.448	.0418	.2601	8.8
%RSD	43.75	174.1	48.18	3.557
#1	-.5340	.0722	.8325	-238.2
#2	-1.123	.0016	.3354	-247.1
#3	-1.412	-.0018	.4515	-255.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2760.1**	**25308.**	**2190.8**
Stddev	54.6	83.	14.3
%RSD	1.9798	.32769	.65481
#1	2775.5	25387.	2185.1
#2	2805.5	25314.	2207.1
#3	2699.5	25221.	2180.2

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 13:23:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29150.**	**1109.**	**95.88**	**4701.**	**2.798**	F **350900.**
Stddev	132.	13.	.67	59.	.210	1558.
%RSD	.4529	1.187	.6937	1.248	7.517	.4440
#1	29300.	1124.	95.19	4766.	2.585	351600.
#2	29130.	1102.	95.92	4652.	2.803	349100.
#3	29030.	1101.	96.52	4686.	3.006	351900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**83.87**	**263.2**	**1582.**	**7868.**	F **676400.**	**4928.**
Stddev	1.61	3.1	4.	34.	2133.	54.
%RSD	1.924	1.165	.2544	.4322	.3153	1.092
#1	85.71	266.6	1583.	7903.	678100.	4989.
#2	82.71	260.6	1577.	7835.	674000.	4904.
#3	83.19	262.5	1585.	7866.	677000.	4890.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 13:23:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**59240.**	**4167.**	**74470.**	**944.1**	F **65770.**	F **2925.**
Stddev	179.	19.	379.	12.5	813.	38.
%RSD	.3013	.4638	.5095	1.324	1.236	1.292
#1	59210.	4177.	74860.	958.0	66650.	2966.
#2	59080.	4144.	74450.	933.9	65050.	2892.
#3	59440.	4179.	74110.	940.3	65620.	2917.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					15000.	2000.
Low Limit					-10.00	-20.00

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34.63**	**3.013**	**187.9**	F **6598.**	F **2749.**	**542.8**
Stddev	3.88	.241	2.0	83.	33.	5.4
%RSD	11.20	8.003	1.080	1.254	1.214	1.004
#1	34.99	2.818	187.5	6689.	2785.	546.9
#2	38.31	3.283	186.1	6526.	2719.	536.6
#3	30.58	2.937	190.1	6580.	2742.	544.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				5000.	2000.	
Low Limit				-50.00	-50.00	

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 13:23:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **57850.**	**802.9**	**2208.**	**692.3**
Stddev	781.	4.5	11.	44.8
%RSD	1.349	.5550	.5010	6.470
#1	58710.	808.1	2217.	685.0
#2	57190.	800.2	2196.	740.3
#3	57640.	800.5	2211.	651.6
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2573.5**	**23376.**	**2138.9**
Stddev	35.5	85.	11.7
%RSD	1.3804	.36493	.54740
#1	2533.0	23421.	2125.5
#2	2599.4	23430.	2143.8
#3	2588.1	23278.	2147.3

Sample Name: CAL5 Acquired: 3/19/2018 12:44:27 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.04**	**.3845**	**.6784**	**65.64**	**8.484**	**5.226**
Stddev	.03	.0016	.0035	.06	.023	.032
%RSD	.2441	.4195	.5101	.0953	.2712	.6194
#1	14.04	.3850	.6824	65.71	8.488	5.264
#2	14.07	.3858	.6767	65.62	8.505	5.207
#3	14.01	.3827	.6761	65.59	8.460	5.208

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.963**	**5.231**	**1.480**	**7.423**	**1.247**	**11.98**
Stddev	.015	.006	.008	.033	.007	.02
%RSD	.1527	.1070	.5331	.4422	.6002	.2053
#1	9.975	5.235	1.489	7.458	1.255	11.97
#2	9.968	5.234	1.478	7.418	1.242	12.00
#3	9.946	5.225	1.474	7.392	1.243	11.95

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.282**	**10.95**	**64.22**	**5.102**	**4.048**	**.3905**
Stddev	.029	.07	.18	.007	.007	.0009
%RSD	.6822	.6804	.2815	.1312	.1769	.2305
#1	4.316	11.03	64.29	5.106	4.053	.3913
#2	4.266	10.92	64.36	5.105	4.051	.3906
#3	4.265	10.89	64.02	5.094	4.040	.3895

Sample Name: CAL5 Acquired: 3/19/2018 12:44:27 Type: Cal
Method: xin01302018(v68) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3982**	**.7563**	**.7273**	**4.752**	**1.004**	**5.502**
Stddev	.0013	.0006	.0051	.005	.003	.007
%RSD	.3312	.0742	.6998	.1155	.2683	.1207
#1	.3995	.7564	.7330	4.756	1.005	5.509
#2	.3983	.7568	.7233	4.753	1.006	5.500
#3	.3969	.7557	.7256	4.746	1.001	5.497

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3473**	**150.7**	**20.31**	**.2694**
Stddev	.0006	.5	.07	.0042
%RSD	.1627	.3163	.3349	1.549
#1	.3479	150.6	20.37	.2648
#2	.3470	151.3	20.23	.2729
#3	.3470	150.3	20.32	.2705

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2408.5**	**22283.**	**2076.1**
Stddev	7.8	56.	33.8
%RSD	.32556	.24956	1.6260
#1	2417.2	22224.	2038.5
#2	2406.2	22335.	2103.8
#3	2402.0	22290.	2086.1

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 13:34:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29840.**	**1541.**	**100.2**	**5980.**	**12.63**	F **358100.**
Stddev	307.	5.	1.2	56.	.27	3477.
%RSD	1.028	.3043	1.208	.9354	2.149	.9709
#1	29510.	1535.	99.45	5925.	12.54	355000.
#2	29890.	1543.	99.62	5979.	12.41	357400.
#3	30110.	1543.	101.6	6036.	12.93	361800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**97.10**	**371.8**	**1634.**	**8071.**	F **684100.**	**8907.**
Stddev	.74	3.3	14.	63.	5626.	51.
%RSD	.7573	.8953	.8395	.7799	.8223	.5740
#1	96.26	368.3	1623.	8018.	679400.	8851.
#2	97.62	372.0	1630.	8054.	682700.	8919.
#3	97.43	375.0	1649.	8140.	690400.	8951.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 13:34:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**63630.**	**4299.**	**79190.**	**1080.**	F **68500.**	F **2795.**
Stddev	758.	35.	762.	9.	636.	24.
%RSD	1.190	.8156	.9627	.8746	.9284	.8610
#1	62880.	4271.	78310.	1070.	67880.	2772.
#2	63620.	4287.	79580.	1081.	68460.	2795.
#3	64390.	4338.	79680.	1089.	69150.	2820.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					15000.	2000.
Low Limit					-10.00	-20.00

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**422.5**	**375.8**	**289.1**	F **6911.**	F **2955.**	**666.0**
Stddev	6.0	9.5	.8	71.	24.	10.7
%RSD	1.419	2.537	.2792	1.034	.8210	1.603
#1	429.2	364.8	288.4	6840.	2929.	655.8
#2	417.7	381.0	288.9	6910.	2960.	665.2
#3	420.6	381.7	290.0	6983.	2977.	677.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				5000.	2000.	
Low Limit				-50.00	-50.00	

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 13:34:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **59500.**	**918.8**	**2335.**	**747.2**
Stddev	614.	8.9	20.	25.0
%RSD	1.032	.9739	.8595	3.346
#1	58860.	908.5	2317.	720.3
#2	59530.	922.9	2330.	769.7
#3	60090.	924.9	2357.	751.6
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2559.1**	**23639.**	**2193.4**
Stddev	17.5	180.	29.2
%RSD	.68381	.76214	1.3308
#1	2572.0	23691.	2216.8
#2	2566.2	23788.	2202.7
#3	2539.2	23439.	2160.7

Sample Name: CCB Acquired: 3/19/2018 13:41:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.110**	**.4613**	**.2995**	**.2912**	**.0663**	**1.383**
Stddev	17.01	2.121	.4272	.0752	.1219	10.63
%RSD	332.9	459.9	142.7	25.82	183.9	768.5
#1	-24.67	-1.560	.2051	.3237	-.0741	4.117
#2	3.082	.2742	-.0727	.3446	.1279	-10.35
#3	6.257	2.670	.7660	.2052	.1452	10.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0508**	**.1717**	**-.7124**	**-.3156**	**24.66**	**19.64**
Stddev	.1043	.1259	.4645	.8753	12.31	9.02
%RSD	205.3	73.33	65.20	277.4	49.89	45.93
#1	-.1663	.2177	-1.020	-.9484	28.28	26.15
#2	-.0228	.2680	-.1781	-.6816	34.76	23.44
#3	.0366	.0292	-.9391	.6834	10.96	9.343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 13:41:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.153**	**.0929**	**4.775**	**-.0207**	**1.502**	**.6585**
Stddev	2.209	.1068	20.78	.5437	1.380	2.167
%RSD	42.87	114.9	435.1	2621.	91.92	329.0
#1	7.586	.1675	28.16	.6021	1.322	-1.134
#2	4.601	.1407	-2.264	-.2633	2.963	.0429
#3	3.273	-.0294	-11.57	-.4010	.2199	3.066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.725**	**-.0034**	**.9285**	**-.1955**	**2.874**	**.2651**
Stddev	2.172	.5326	.8197	.3012	1.677	.2889
%RSD	125.9	15890.	88.28	154.1	58.33	109.0
#1	3.943	-.0588	1.582	.1426	4.660	.4950
#2	-.3984	.5548	1.194	-.2939	2.630	.3596
#3	1.630	-.5060	.0088	-.4352	1.333	-.0592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 13:41:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.3988**	**.1443**	**.3823**	**25.54**
Stddev	.7093	.1521	.4312	20.20
%RSD	177.9	105.4	112.8	79.10
#1	-.0959	.1966	.8801	28.51
#2	.1089	.2633	.1429	4.014
#3	-1.209	-.0271	.1240	44.09
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2761.6**	**25230.**	**2209.6**
Stddev	34.4	134.	32.6
%RSD	1.2459	.53247	1.4762
#1	2734.4	25383.	2247.2
#2	2800.3	25180.	2188.6
#3	2750.0	25128.	2193.0

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 13:49:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30490.**	**3319.**	**149.2**	**6937.**	**57.67**	F **367000.**
Stddev	607.	38.	2.4	104.	.72	7343.
%RSD	1.991	1.148	1.613	1.492	1.253	2.001
#1	30000.	3280.	146.4	6836.	56.99	359200.
#2	30290.	3322.	150.1	6931.	57.59	368000.
#3	31170.	3356.	150.9	7043.	58.42	373800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**139.2**	**827.2**	**1781.**	**8077.**	F **665600.**	**26800.**
Stddev	2.3	10.2	33.	173.	13700.	255.
%RSD	1.646	1.229	1.866	2.139	2.059	.9530
#1	137.1	816.4	1748.	7908.	651500.	26630.
#2	139.0	828.6	1781.	8069.	666500.	26680.
#3	141.6	836.6	1814.	8253.	678900.	27090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 13:49:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**80670.**	**4614.**	**94330.**	**1487.**	F **66710.**	F **3477.**
Stddev	1620.	82.	1674.	18.	1216.	59.
%RSD	2.008	1.770	1.774	1.211	1.822	1.689
#1	78980.	4526.	92850.	1469.	65550.	3418.
#2	80820.	4628.	94000.	1485.	66620.	3478.
#3	82210.	4688.	96150.	1505.	67970.	3535.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					15000.	2000.
Low Limit					-10.00	-20.00

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2227.**	**2205.**	**746.7**	F **7203.**	F **3318.**	**1104.**
Stddev	11.	11.	3.4	127.	58.	12.
%RSD	.4938	.5156	.4501	1.764	1.745	1.106
#1	2215.	2196.	742.9	7082.	3260.	1091.
#2	2230.	2200.	747.8	7192.	3319.	1104.
#3	2236.	2218.	749.4	7336.	3376.	1116.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				5000.	2000.	
Low Limit				-50.00	-50.00	

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 13:49:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **58800.**	**1319.**	**2752.**	**669.7**
Stddev	1079.	18.	52.	26.7
%RSD	1.834	1.391	1.875	3.981
#1	57730.	1304.	2700.	643.4
#2	58780.	1314.	2753.	669.0
#3	59880.	1340.	2803.	696.7
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2504.8**	**22951.**	**2134.8**
Stddev	3.6	74.	16.9
%RSD	.14311	.32138	.79203
#1	2503.4	23035.	2147.3
#2	2508.9	22895.	2141.5
#3	2502.1	22924.	2115.5

Sample Name: icb Acquired: 3/19/2018 12:51:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.99**	**-.3806**	**-.0135**	**.4326**	**.1264**	**1.907**
Stddev	12.10	2.367	.2486	.0306	.0136	2.186
%RSD	100.9	622.0	1840.	7.077	10.74	114.6
#1	-1.178	-.8686	-.0710	.4560	.1293	-.5820
#2	22.63	2.193	-.2283	.4438	.1383	2.786
#3	14.53	-2.466	.2588	.3979	.1116	3.516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0482**	**.0831**	**-.7957**	**.0407**	**9.451**	**96.74**
Stddev	.0423	.1194	.2175	.0755	2.907	21.99
%RSD	87.61	143.7	27.33	185.6	30.76	22.73
#1	-.0039	.1774	-.5677	-.0116	8.071	99.46
#2	-.0527	-.0512	-1.001	.1273	7.491	117.2
#3	-.0881	.1232	-.8186	.0064	12.79	73.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 3/19/2018 12:51:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.953**	**.1576**	**45.66**	**-.3807**	**-.1642**	**.8298**
Stddev	4.599	.1539	11.11	.2524	.1512	.4488
%RSD	116.3	97.69	24.32	66.28	92.08	54.09
#1	8.501	.3334	47.82	-.4139	-.2596	.9229
#2	4.055	.0923	55.52	-.1134	-.2432	1.225
#3	-.6947	.0470	33.63	-.6148	.0101	.3417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1775**	**.7113**	**.4009**	**-.1344**	**1.578**	**.7885**
Stddev	2.737	1.737	.5847	.1125	1.830	.3806
%RSD	1542.	244.2	145.9	83.70	116.0	48.27
#1	-1.924	1.177	-.2741	-.1866	3.186	1.162
#2	3.273	2.168	.7535	-.2112	-.4129	.8015
#3	-.8161	-1.211	.7233	-.0053	1.961	.4015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 3/19/2018 12:51:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0828**	**.0787**	**.6769**	**10.67**
Stddev	1.275	.1712	.3666	16.60
%RSD	1539.	217.5	54.16	155.5
#1	-.4009	.1777	1.091	29.82
#2	1.529	.1774	.5467	1.722
#3	-.8797	-.1190	.3931	.4763
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2768.7**	**25558.**	**2210.9**
Stddev	43.6	206.	15.3
%RSD	1.5764	.80547	.68984
#1	2770.2	25718.	2212.3
#2	2811.6	25629.	2225.3
#3	2724.4	25326.	2194.9

Sample Name: 460-152130-D-1-A@4 Acquired: 3/19/2018 14:01:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**82510.**	**40.25**	**.4014**	**358.2**	**2.431**	**51670.**
Stddev	1388.	2.10	.2246	5.1	.198	781.
%RSD	1.682	5.209	55.96	1.417	8.126	1.512
#1	81360.	39.94	.6390	352.4	2.266	50840.
#2	82120.	42.48	.1926	360.4	2.650	51790.
#3	84050.	38.32	.3725	361.8	2.377	52390.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.74**	**63.41**	**165.0**	**196.0**	**169800.**	**3771.**
Stddev	.22	.30	2.8	2.0	2370.	64.
%RSD	1.890	.4779	1.682	1.032	1.396	1.697
#1	11.51	63.08	161.9	194.3	167400.	3722.
#2	11.96	63.47	165.7	195.6	169800.	3748.
#3	11.76	63.67	167.3	198.2	172100.	3844.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-1-A@4 Acquired: 3/19/2018 14:01:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9590.**	**2356.**	**1225.**	**181.3**	**1865.**	**2.358**
Stddev	118.	33.	17.	2.4	27.	1.431
%RSD	1.226	1.402	1.385	1.317	1.454	60.71
#1	9460.	2322.	1211.	178.6	1834.	3.986
#2	9623.	2360.	1219.	183.1	1886.	1.790
#3	9688.	2387.	1244.	182.4	1873.	1.297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3832**	**3.342**	**281.9**	**1381.**	**6.054**	**7.616**
Stddev	2.415	1.631	3.9	18.	.365	.226
%RSD	630.1	48.79	1.374	1.316	6.024	2.970
#1	-2.330	1.492	279.1	1360.	5.990	7.877
#2	2.297	3.961	280.2	1392.	6.446	7.488
#3	1.183	4.573	286.3	1391.	5.725	7.484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-1-A@4 Acquired: 3/19/2018 14:01:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**17.96**	**286.0**	**1698.**	**3369.**
Stddev	.58	4.3	23.	47.
%RSD	3.251	1.487	1.330	1.387
#1	17.29	282.2	1676.	3359.
#2	18.26	285.3	1699.	3420.
#3	18.34	290.6	1721.	3328.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2800.8**	**25524.**	**2280.8**
Stddev	14.7	86.	22.4
%RSD	.52460	.33857	.98048
#1	2815.9	25620.	2300.0
#2	2786.6	25451.	2286.2
#3	2799.9	25502.	2256.3

Sample Name: 460-152130-D-3-A@4 Acquired: 3/19/2018 14:09:00 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47490.**	**10.20**	**-.4304**	**265.8**	**2.385**	**4118.**
Stddev	332.	2.12	.7331	2.5	.053	13.
%RSD	.6985	20.77	170.3	.9326	2.205	.3064
#1	47130.	8.994	-1.225	263.0	2.410	4129.
#2	47530.	12.64	-.2862	267.6	2.421	4104.
#3	47790.	8.954	.2199	266.9	2.325	4122.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7555**	**66.50**	**92.12**	**69.37**	**109800.**	**4073.**
Stddev	.1851	.89	.61	.77	405.	20.
%RSD	24.50	1.333	.6591	1.112	.3687	.4931
#1	-.7870	65.47	92.82	68.52	109700.	4068.
#2	-.5567	67.02	91.71	69.55	109500.	4095.
#3	-.9228	67.00	91.83	70.04	110300.	4056.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-3-A@4 Acquired: 3/19/2018 14:09:00 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5541.**	**1523.**	**368.4**	**44.73**	**118.6**	**-1.634**
Stddev	33.	4.	3.8	.95	2.4	.772
%RSD	.5940	.2341	1.033	2.132	2.034	47.29
#1	5522.	1522.	366.2	43.71	115.9	-2.325
#2	5522.	1520.	366.2	44.87	120.6	-.7997
#3	5579.	1527.	372.8	45.60	119.2	-1.776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.429**	**1.786**	**169.9**	**153.9**	**-3.321**	**2.903**
Stddev	.874	1.449	.9	3.0	.788	.188
%RSD	61.13	81.14	.5579	1.964	23.74	6.475
#1	1.897	2.690	168.8	150.4	-4.090	3.097
#2	1.969	.1145	170.4	156.1	-2.515	2.888
#3	.4212	2.555	170.4	155.1	-3.358	2.722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-3-A@4 Acquired: 3/19/2018 14:09:00 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**15.32**	**30.78**	**1398.**	**1134.**
Stddev	1.68	.25	5.	75.
%RSD	10.94	.8282	.3486	6.586
#1	13.59	30.52	1395.	1144.
#2	16.94	30.81	1395.	1203.
#3	15.43	31.03	1403.	1055.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2867.6**	**26200.**	**2298.0**
Stddev	9.1	268.	32.9
%RSD	.31638	1.0229	1.4333
#1	2857.2	25903.	2261.4
#2	2873.5	26424.	2307.4
#3	2872.1	26273.	2325.2

Sample Name: icvl 5614430 Acquired: 3/19/2018 12:55:55 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**224.5**	**15.04**	**10.19**	**211.4**	**2.080**	**5134.**
Stddev	9.4	1.74	.54	2.3	.068	20.
%RSD	4.182	11.57	5.307	1.089	3.263	.3806
#1	213.7	14.47	9.768	212.9	2.005	5149.
#2	229.5	13.67	10.80	212.5	2.099	5112.
#3	230.4	17.00	10.00	208.7	2.136	5141.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.156**	**53.92**	**9.797**	**24.48**	**162.1**	**5038.**
Stddev	.105	.14	.272	.49	6.8	79.
%RSD	2.525	.2557	2.780	2.011	4.183	1.576
#1	4.112	54.03	9.737	24.38	167.4	5006.
#2	4.276	53.96	9.560	24.04	154.5	4979.
#3	4.080	53.76	10.09	25.01	164.3	5128.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 5614430 Acquired: 3/19/2018 12:55:55 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5165.**	**15.87**	**5038.**	**43.21**	**9.989**	**20.93**
Stddev	23.	.08	45.	.90	1.018	1.99
%RSD	.4538	.4766	.8980	2.075	10.19	9.487
#1	5155.	15.95	5058.	44.19	8.818	20.88
#2	5149.	15.80	4986.	43.03	10.66	22.94
#3	5192.	15.86	5069.	42.42	10.49	18.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.67**	**19.69**	**53.12**	**32.18**	F **26.52**	**20.85**
Stddev	1.73	.64	1.05	.34	.57	.33
%RSD	7.611	3.227	1.972	1.052	2.152	1.563
#1	24.63	20.38	52.90	32.51	27.15	20.89
#2	21.99	19.13	52.20	32.22	26.02	21.16
#3	21.39	19.56	54.26	31.83	26.40	20.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: icvl 5614430 Acquired: 3/19/2018 12:55:55 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**52.68**	**20.07**	**21.41**	F **-215.7**
Stddev	1.49	.12	.08	15.6
%RSD	2.831	.5885	.3809	7.244
#1	54.02	20.18	21.39	-233.2
#2	52.95	19.95	21.35	-210.7
#3	51.07	20.09	21.50	-203.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2744.0**	**25147.**	**2183.5**
Stddev	47.2	231.	41.7
%RSD	1.7192	.91849	1.9101
#1	2695.0	24893.	2136.9
#2	2747.9	25345.	2217.2
#3	2789.1	25203.	2196.5

Sample Name: 460-152130-D-5-A@4 Acquired: 3/19/2018 14:16:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**54040.**	**4.535**	**-.2229**	**372.5**	**7.226**	**2585.**
Stddev	1008.	3.701	.6201	5.1	.307	44.
%RSD	1.866	81.61	278.2	1.378	4.245	1.698
#1	55160.	.2709	.4840	378.2	7.566	2635.
#2	53770.	6.421	-.4779	370.9	6.971	2553.
#3	53200.	6.914	-.6750	368.3	7.140	2567.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.149**	**60.06**	**120.5**	**85.67**	F **281800.**	**4209.**
Stddev	.390	.48	1.6	1.90	4895.	53.
%RSD	18.14	.8013	1.300	2.213	1.737	1.252
#1	-2.215	60.54	122.1	87.69	287400.	4250.
#2	-1.730	60.06	119.0	83.94	278600.	4227.
#3	-2.502	59.58	120.5	85.37	279400.	4150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: 460-152130-D-5-A@4 Acquired: 3/19/2018 14:16:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3639.**	**1206.**	**149.5**	**55.75**	**42.76**	**-3.192**
Stddev	73.	19.	11.7	.54	.69	1.110
%RSD	2.001	1.554	7.842	.9674	1.604	34.78
#1	3722.	1227.	161.1	56.37	42.51	-4.119
#2	3586.	1193.	149.8	55.39	42.23	-1.962
#3	3609.	1196.	137.7	55.49	43.53	-3.494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.631**	**1.938**	**286.2**	**153.8**	**-4.445**	**3.604**
Stddev	.957	1.908	5.2	1.6	.356	.394
%RSD	26.35	98.47	1.822	1.010	8.015	10.93
#1	2.635	.5658	292.2	155.0	-4.829	3.823
#2	4.543	1.131	283.5	154.5	-4.125	3.839
#3	3.715	4.117	282.9	152.1	-4.381	3.149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-5-A@4 Acquired: 3/19/2018 14:16:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**11.67**	**27.71**	**1196.**	**1034.**
Stddev	.39	.70	18.	33.
%RSD	3.369	2.524	1.546	3.202
#1	12.09	28.39	1217.	1066.
#2	11.61	27.76	1183.	1036.
#3	11.32	26.99	1187.	999.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2874.5**	**26409.**	**2329.9**
Stddev	32.8	377.	16.8
%RSD	1.1415	1.4271	.72012
#1	2837.3	25999.	2311.4
#2	2887.3	26741.	2334.1
#3	2899.0	26486.	2344.1

Sample Name: icsab 5741108 Acquired: 3/19/2018 13:03:53 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**508900.**	**93.19**	**109.9**	**102.8**	**102.7**	**527800.**
Stddev	7790.	1.18	.7	.6	.9	2133.
%RSD	1.531	1.264	.6729	.5952	.8927	.4042
#1	501600.	91.93	109.1	103.5	101.8	526300.
#2	508000.	93.37	110.3	102.3	102.6	526900.
#3	517100.	94.27	110.4	102.7	103.6	530300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**98.64**	**96.23**	**107.5**	**105.1**	**205500.**	**10680.**
Stddev	.66	.12	.4	1.9	811.	99.
%RSD	.6678	.1245	.4092	1.848	.3946	.9249
#1	99.39	96.13	107.4	103.2	204700.	10570.
#2	98.39	96.36	108.0	104.9	205400.	10730.
#3	98.14	96.20	107.2	107.1	206300.	10750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 5741108 Acquired: 3/19/2018 13:03:53 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**546500.**	**103.5**	**10630.**	**97.05**	**97.44**	**100.4**
Stddev	4537.	1.4	172.	.71	.38	1.3
%RSD	.8303	1.373	1.620	.7265	.3875	1.303
#1	542700.	101.9	10450.	97.53	97.19	100.1
#2	545200.	104.1	10650.	96.24	97.88	101.8
#3	551500.	104.6	10800.	97.38	97.26	99.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**95.75**	**87.30**	**113.2**	**102.6**	F **69.56**	**101.0**
Stddev	7.11	3.07	2.0	.4	1.55	.4
%RSD	7.430	3.519	1.761	.4150	2.223	.4300
#1	88.70	88.00	111.0	103.1	67.77	101.5
#2	95.61	83.94	113.7	102.5	70.48	101.0
#3	102.9	89.96	114.9	102.2	70.41	100.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					120.0	
Low Limit					80.00	

Sample Name: icsab 5741108 Acquired: 3/19/2018 13:03:53 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**104.7**	**91.52**	**111.6**	**-146.2**
Stddev	1.3	.83	1.9	29.3
%RSD	1.245	.9028	1.681	20.03
#1	103.6	90.67	109.5	-125.9
#2	106.2	91.59	112.1	-179.8
#3	104.4	92.32	113.2	-133.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2453.5**	**21409.**	**2072.9**
Stddev	10.1	95.	33.6
%RSD	.41150	.44551	1.6214
#1	2442.7	21398.	2103.8
#2	2462.7	21509.	2077.7
#3	2455.0	21319.	2037.1

Sample Name: CCVL Acquired: 3/19/2018 14:36:01 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**222.3**	**13.86**	**10.20**	**211.6**	**2.022**	**5248.**
Stddev	8.5	1.05	.48	2.8	.074	25.
%RSD	3.830	7.574	4.670	1.331	3.683	.4809
#1	222.5	12.67	9.648	214.4	2.055	5272.
#2	213.7	14.22	10.44	208.7	2.074	5250.
#3	230.7	14.68	10.51	211.6	1.937	5221.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.228**	**54.32**	**9.883**	**25.40**	**172.2**	**5028.**
Stddev	.021	.20	.271	.62	4.6	29.
%RSD	.4907	.3680	2.743	2.433	2.692	.5846
#1	4.206	54.39	9.584	25.36	171.1	5009.
#2	4.232	54.10	9.955	26.03	177.4	5062.
#3	4.247	54.48	10.11	24.80	168.3	5014.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 14:36:01 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5362.**	**16.17**	**5091.**	**43.82**	**10.05**	**20.99**
Stddev	75.	.13	43.	.62	1.06	.48
%RSD	1.400	.8319	.8391	1.420	10.51	2.284
#1	5276.	16.11	5117.	43.63	10.67	20.45
#2	5408.	16.32	5114.	43.31	8.834	21.36
#3	5403.	16.07	5042.	44.51	10.65	21.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.05**	**20.60**	**53.39**	**32.48**	F **26.03**	**20.82**
Stddev	.51	.40	1.34	.27	.34	.15
%RSD	2.675	1.930	2.505	.8462	1.318	.7249
#1	18.49	20.48	52.07	32.69	26.42	20.99
#2	19.49	20.28	54.74	32.17	25.88	20.78
#3	19.17	21.05	53.36	32.57	25.78	20.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 14:36:01 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**53.73**	**20.31**	**22.00**	F **-198.6**
Stddev	1.22	.10	.12	20.3
%RSD	2.278	.5037	.5365	10.22
#1	52.73	20.42	21.86	-175.4
#2	53.36	20.30	22.08	-207.1
#3	55.09	20.22	22.05	-213.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2787.3**	**24873.**	**2180.3**
Stddev	33.6	59.	16.2
%RSD	1.2045	.23845	.74440
#1	2749.8	24917.	2198.9
#2	2814.6	24897.	2173.4
#3	2797.5	24806.	2168.7

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 14:43:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43520.**	**8.710**	**.1090**	**499.7**	**2.604**	**6307.**
Stddev	261.	3.057	.2772	2.3	.167	28.
%RSD	.6006	35.09	254.2	.4532	6.403	.4451
#1	43300.	9.683	-.2109	497.6	2.412	6279.
#2	43450.	11.16	.2774	502.1	2.689	6308.
#3	43810.	5.286	.2607	499.4	2.710	6335.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5141**	**32.96**	**74.81**	**86.93**	**67180.**	**2650.**
Stddev	.0965	.50	.54	1.51	301.	59.
%RSD	18.78	1.509	.7255	1.737	.4481	2.223
#1	-.6231	32.39	74.71	87.61	67030.	2607.
#2	-.4803	33.19	75.40	85.20	66990.	2627.
#3	-.4391	33.31	74.33	87.98	67530.	2717.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 14:43:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6479.**	**1322.**	**250.0**	**41.52**	**385.3**	**.2262**
Stddev	45.	4.	16.9	.21	2.9	.2251
%RSD	.6912	.3103	6.763	.5015	.7460	99.53
#1	6448.	1320.	235.4	41.35	382.1	.2638
#2	6459.	1319.	246.2	41.75	385.9	-.0153
#3	6530.	1326.	268.5	41.46	387.8	.4301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.419**	**-.2543**	**117.4**	**383.5**	**.4903**	**2.798**
Stddev	2.349	.3886	.6	5.1	1.282	.151
%RSD	68.70	152.8	.4998	1.338	261.5	5.404
#1	5.873	.1848	116.8	378.8	-.3542	2.625
#2	3.193	-.5542	117.3	382.7	1.966	2.903
#3	1.192	-.3935	118.0	388.9	-.1407	2.866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 14:43:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**27.28**	**50.03**	**997.2**	**929.4**
Stddev	.75	.19	4.5	10.8
%RSD	2.738	.3874	.4481	1.160
#1	27.72	49.80	995.4	941.7
#2	27.70	50.15	994.0	921.4
#3	26.42	50.13	1002.	925.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2902.4**	**26351.**	**2306.9**
Stddev	11.9	77.	10.4
%RSD	.40924	.29194	.45132
#1	2890.0	26293.	2294.9
#2	2903.6	26322.	2312.9
#3	2913.6	26438.	2312.9

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 14:51:39 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48680.**	**10.62**	**-.2039**	**255.4**	**2.834**	**1722.**
Stddev	178.	3.11	.2488	.6	.201	21.
%RSD	.3659	29.27	122.0	.2193	7.075	1.207
#1	48490.	13.11	-.1717	255.5	2.978	1707.
#2	48850.	11.61	-.4673	255.8	2.605	1713.
#3	48680.	7.135	.0271	254.7	2.920	1745.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4614**	**33.34**	**94.08**	**91.68**	**79410.**	**3124.**
Stddev	.1115	.50	.22	.47	381.	37.
%RSD	24.17	1.513	.2322	.5110	.4791	1.195
#1	-.3699	33.77	93.84	92.17	78980.	3107.
#2	-.4288	33.45	94.15	91.24	79690.	3166.
#3	-.5856	32.78	94.26	91.63	79570.	3097.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 14:51:39 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13190.**	**427.3**	**367.2**	**132.5**	**72.18**	**.7334**
Stddev	44.	1.6	22.9	.8	1.51	2.346
%RSD	.3341	.3656	6.237	.6262	2.087	319.9
#1	13150.	425.5	388.6	132.7	70.48	2.799
#2	13230.	428.0	370.0	133.2	72.70	-1.818
#3	13210.	428.4	343.1	131.6	73.35	1.219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.425**	**1.329**	**162.0**	**199.1**	**.4443**	**.5212**
Stddev	1.933	2.095	1.8	1.1	.2773	.1322
%RSD	56.45	157.6	1.131	.5407	62.41	25.37
#1	4.991	-1.088	160.8	198.3	.4250	.6514
#2	1.264	2.623	161.0	198.6	.1772	.5252
#3	4.019	2.452	164.1	200.3	.7308	.3870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 14:51:39 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**6.873**	**19.39**	**1270.**	**724.8**
Stddev	.823	.12	5.	23.3
%RSD	11.98	.6107	.3576	3.215
#1	7.509	19.38	1266.	749.4
#2	5.943	19.51	1275.	722.1
#3	7.167	19.27	1270.	703.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2866.4**	**26241.**	**2356.4**
Stddev	13.9	100.	13.9
%RSD	.48664	.38119	.59168
#1	2882.2	26338.	2341.0
#2	2855.7	26247.	2368.1
#3	2861.4	26138.	2360.2

Sample Name: int-10a 5622486 Acquired: 3/19/2018 13:07:38 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.28**	**-.8793**	**3.922**	**3.042**	**-1.988**	**14.60**
Stddev	35.01	3.392	.588	.026	.145	14.61
%RSD	93.93	385.8	14.98	.8617	7.300	100.1
#1	73.91	2.828	3.340	3.048	-2.155	31.12
#2	33.76	-1.638	3.912	3.065	-1.909	3.381
#3	4.152	-3.828	4.515	3.013	-1.898	9.288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4185**	**10070.**	**-.6573**	**-4.783**	**-52.69**	**55.21**
Stddev	.0284	146.	.5517	.259	8.58	56.84
%RSD	6.791	1.454	83.94	5.417	16.28	103.0
#1	-.4034	10230.	-.1827	-4.750	-46.10	112.7
#2	-.4009	9974.	-.5265	-4.542	-49.59	53.84
#3	-.4513	9989.	-1.263	-5.058	-62.39	-.9354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 5622486 Acquired: 3/19/2018 13:07:38 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.73**	**-.0387**	**33.82**	**1.320**	**-.5209**	**-4.898**
Stddev	12.41	.0502	15.92	.260	1.392	2.813
%RSD	97.50	130.0	47.07	19.66	267.2	57.43
#1	26.76	-.0702	45.94	1.252	-.2855	-6.552
#2	8.233	.0193	39.73	1.101	-2.016	-1.650
#3	3.192	-.0650	15.79	1.607	.7383	-6.492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.828**	**5.414**	**4728.**	**.0479**	**-30.95**	**-1.528**
Stddev	3.543	.764	22.	.2272	.57	.174
%RSD	125.3	14.11	.4699	474.8	1.827	11.42
#1	.7077	4.676	4727.	.2408	-30.31	-1.563
#2	-6.379	6.202	4706.	-.2026	-31.36	-1.682
#3	-2.811	5.364	4750.	.1054	-31.20	-1.338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 5622486 Acquired: 3/19/2018 13:07:38 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**9743.**	**9131.**	**.1101**	**8323.**
Stddev	142.	92.	.1178	106.
%RSD	1.453	1.009	106.9	1.276
#1	9905.	9237.	.2395	8343.
#2	9648.	9066.	.0090	8418.
#3	9674.	9091.	.0819	8208.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2861.3**	**25614.**	**2255.8**
Stddev	30.5	337.	53.6
%RSD	1.0675	1.3160	2.3753
#1	2827.6	25325.	2196.4
#2	2887.2	25984.	2300.6
#3	2869.0	25534.	2270.3

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 15:03:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33170.**	**16.14**	**-.0677**	**293.7**	**1.639**	**12700.**
Stddev	115.	.64	.3218	.9	.132	30.
%RSD	.3477	3.939	475.0	.3074	8.070	.2345
#1	33080.	16.59	.2771	292.7	1.726	12700.
#2	33130.	15.41	-.3599	294.5	1.704	12670.
#3	33300.	16.41	-.1205	293.8	1.487	12730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3718**	**39.79**	**128.5**	**52.89**	**77520.**	**2696.**
Stddev	.0344	.56	.8	.78	195.	12.
%RSD	9.259	1.400	.6096	1.479	.2513	.4570
#1	-.3321	39.20	128.7	53.05	77560.	2684.
#2	-.3901	40.31	127.6	52.04	77300.	2693.
#3	-.3932	39.85	129.1	53.59	77690.	2709.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 15:03:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11650.**	**1447.**	**504.0**	**61.10**	**170.1**	**-.1757**
Stddev	17.	4.	17.4	.22	1.4	1.474
%RSD	.1438	.3073	3.448	.3610	.8053	838.7
#1	11640.	1447.	510.0	60.87	169.1	-.5386
#2	11650.	1442.	484.4	61.12	171.7	1.445
#3	11670.	1451.	517.6	61.31	169.5	-1.434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.699**	**1.079**	**103.7**	**185.1**	**-.1960**	**2.570**
Stddev	1.877	1.131	.7	1.9	.7507	.013
%RSD	110.5	104.8	.7119	1.008	383.0	.5018
#1	3.433	-.1161	104.5	186.2	-.0754	2.577
#2	1.958	2.132	103.0	182.9	-.9996	2.578
#3	-.2947	1.222	103.6	186.1	.4871	2.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 15:03:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.410**	**49.84**	**1414.**	**807.3**
Stddev	.768	.34	5.	36.2
%RSD	10.37	.6721	.3723	4.484
#1	6.584	49.57	1413.	776.5
#2	8.104	49.75	1409.	798.3
#3	7.540	50.21	1420.	847.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2912.1**	**26555.**	**2332.7**
Stddev	10.8	91.	9.8
%RSD	.36950	.34142	.41885
#1	2901.4	26472.	2330.9
#2	2912.0	26542.	2324.0
#3	2922.9	26652.	2343.3

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 15:10:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8471.**	**41.37**	**3.357**	**1800.**	**-.2372**	**52010.**
Stddev	81.	2.98	.220	18.	.0977	32.
%RSD	.9606	7.203	6.552	1.008	41.18	.0623
#1	8411.	39.86	3.522	1802.	-.1258	52040.
#2	8439.	39.45	3.442	1817.	-.2774	51970.
#3	8564.	44.80	3.107	1781.	-.3083	52010.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.613**	**24.36**	**2415.**	**1712.**	**90000.**	**6090.**
Stddev	.077	.33	1.	7.	145.	105.
%RSD	1.665	1.369	.0613	.3817	.1609	1.731
#1	4.680	24.06	2416.	1704.	90120.	5977.
#2	4.629	24.30	2414.	1717.	89840.	6106.
#3	4.529	24.71	2417.	1713.	90030.	6186.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 15:10:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5234.**	**1766.**	**1918.**	**59.30**	**121.1**	**201.4**
Stddev	12.	4.	18.	.66	.9	4.8
%RSD	.2245	.2425	.9191	1.109	.7565	2.366
#1	5222.	1766.	1897.	59.36	121.0	199.7
#2	5245.	1762.	1930.	59.93	122.0	206.7
#3	5237.	1771.	1926.	58.61	120.2	197.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.970**	**.9865**	**13.71**	F **11020.**	**280.7**	**1.590**
Stddev	2.909	1.940	.45	127.	3.9	.233
%RSD	147.7	196.6	3.284	1.148	1.386	14.67
#1	2.878	2.747	13.19	11040.	278.5	1.697
#2	4.318	-1.093	13.95	11140.	285.2	1.323
#3	-1.285	1.305	13.99	10890.	278.5	1.751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 15:10:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**46.95**	**7696.**	**1656.**	**1246.**
Stddev	.87	69.	8.	61.
%RSD	1.857	.8949	.4788	4.896
#1	46.94	7622.	1647.	1285.
#2	46.09	7708.	1656.	1277.
#3	47.84	7758.	1663.	1176.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2674.0**	**24489.**	**2135.9**
Stddev	62.8	357.	15.3
%RSD	2.3494	1.4570	.71839
#1	2640.7	24157.	2153.3
#2	2634.7	24442.	2124.5
#3	2746.4	24866.	2129.9

Sample Name: CCV Acquired: 3/19/2018 15:18:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **42050.**	F **632.7**	F **424.3**	F **2655.**	F **336.7**	F **44080.**
Stddev	41750.	616.8	451.5	2590.	336.2	46270.
%RSD	99.29	97.47	106.4	97.55	99.86	105.0
#1	42550.	1233.	372.8	5175.	337.2	39860.
#2	83540.	664.8	899.4	2789.	672.6	92320.
#3	45.26	.585	.8127	.633	.2242	55.78
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	2500.	1250.	10000.	1000.	125000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **331.4**	F **664.1**	F **1778.**	F **4206.**	F **35740.**	F **16720.**
Stddev	325.4	650.8	1872.	4539.	37570.	16570.
%RSD	98.19	98.00	105.3	107.9	105.1	99.07
#1	651.1	1302.	1604.	3607.	32300.	16840.
#2	342.6	690.2	3731.	9015.	74910.	33240.
#3	.5472	.649	-.904	-4.046	12.31	96.91
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1250.	2500.	5000.	12500.	100000.	50000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Sample Name: CCV Acquired: 3/19/2018 15:18:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **43520.**	F **1778.**	F **41780.**	F **665.1**	F **2004.**	F **248.3**
Stddev	45970.	1872.	41670.	648.9	1959.	256.0
%RSD	105.6	105.3	99.75	97.56	97.77	103.1
#1	38950.	1600.	41930.	1297.	3916.	509.1
#2	91600.	3732.	83370.	697.7	2094.	238.5
#3	7.93	.505	25.91	.602	1.011	-2.604
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	5000.	125000.	2500.	7500.	1000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **637.7**	F **667.6**	F **877.2**	F **681.5**	F **232.5**	F **657.3**
Stddev	622.0	637.2	918.4	666.8	260.3	636.0
%RSD	97.53	95.44	104.7	97.84	112.0	96.76
#1	1237.	1276.	794.9	1332.	487.9	1271.
#2	681.8	721.6	1834.	712.2	242.1	700.1
#3	-5.109	5.162	2.792	-.141	-32.47	1.009
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2500.	2500.	2500.	2500.	1000.	2500.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Sample Name: CCV Acquired: 3/19/2018 15:18:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **268.1**	F **1671.**	F **3519.**	**2643.**
Stddev	264.1	1672.	3732.	2705.
%RSD	98.52	100.1	106.0	102.4
#1	526.3	1667.	3122.	3149.
#2	279.4	3346.	7434.	5059.
#3	-1.514	1.343	2.318	-279.3
Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	1000.	5000.	10000.	
Range	-10.50%	-10.50%	-10.50%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**4413.4**	**37632.**	**3085.3**
Stddev	1017.7	9114.	507.7
%RSD	23.060	24.219	16.454
#1	3718.5	38752.	3058.9
#2	3940.0	28010.	2591.4
#3	5581.6	46135.	3605.7

Sample Name: CCVL Acquired: 3/19/2018 15:26:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**201.3**	**14.74**	**10.26**	**215.5**	**2.010**	**5276.**
Stddev	4.4	1.29	.41	4.8	.348	46.
%RSD	2.181	8.718	3.963	2.251	17.31	.8792
#1	206.0	13.53	9.855	217.8	2.320	5280.
#2	197.3	14.59	10.67	218.7	2.077	5321.
#3	200.7	16.09	10.26	209.9	1.634	5228.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.241**	**55.22**	**9.523**	**25.90**	**188.8**	**5045.**
Stddev	.057	1.04	.439	.40	9.3	91.
%RSD	1.348	1.876	4.610	1.548	4.926	1.794
#1	4.176	55.70	9.686	25.46	196.5	5086.
#2	4.284	55.93	9.858	26.00	191.4	5108.
#3	4.263	54.03	9.026	26.24	178.5	4942.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 15:26:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5369.**	**16.29**	**5116.**	**45.03**	**12.44**	**20.32**
Stddev	72.	.31	12.	1.08	1.78	.96
%RSD	1.346	1.898	.2427	2.399	14.34	4.716
#1	5292.	16.11	5129.	44.90	11.59	19.34
#2	5380.	16.10	5105.	46.17	14.50	21.26
#3	5436.	16.64	5113.	44.02	11.25	20.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.38**	**21.12**	**54.61**	**33.17**	F **27.28**	**21.07**
Stddev	1.18	1.90	1.47	.77	.95	.36
%RSD	5.529	9.011	2.690	2.319	3.470	1.713
#1	21.95	21.55	54.54	33.01	27.45	20.86
#2	22.18	22.78	53.17	34.01	28.14	21.49
#3	20.02	19.05	56.11	32.50	26.27	20.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 15:26:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**54.53**	**20.55**	**22.19**	F **-185.0**
Stddev	2.27	.11	.27	6.3
%RSD	4.154	.5436	1.205	3.391
#1	53.10	20.56	22.12	-190.3
#2	57.14	20.43	21.97	-178.1
#3	53.35	20.66	22.49	-186.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2775.9**	**25365.**	**2227.0**
Stddev	85.4	307.	15.5
%RSD	3.0781	1.2084	.69454
#1	2732.0	25248.	2226.8
#2	2721.3	25134.	2211.6
#3	2874.4	25712.	2242.5

Sample Name: 460-151395-A-40-D@4 Acquired: 3/19/2018 15:34:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**57960.**	**106.4**	**.1457**	**718.4**	**6.069**	**31520.**
Stddev	919.	.9	.5537	3.7	.202	229.
%RSD	1.586	.8435	380.0	.5125	3.323	.7259
#1	57110.	106.2	-.3804	714.9	5.840	31280.
#2	57830.	105.6	.7234	718.0	6.149	31530.
#3	58930.	107.4	.0941	722.2	6.219	31740.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2806**	**76.72**	**137.3**	**108.2**	**141800.**	**8477.**
Stddev	.0261	.60	1.5	.4	947.	155.
%RSD	9.298	.7778	1.075	.3817	.6683	1.827
#1	.2685	76.13	135.7	108.3	140800.	8339.
#2	.3106	76.70	137.4	108.6	141700.	8447.
#3	.2628	77.33	138.7	107.8	142700.	8644.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151395-A-40-D@4 Acquired: 3/19/2018 15:34:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34320.**	**2735.**	**745.5**	**163.8**	**5025.**	**48.08**
Stddev	319.	14.	9.4	.2	16.	1.94
%RSD	.9282	.4992	1.262	.1235	.3102	4.035
#1	34000.	2721.	741.0	163.7	5021.	46.25
#2	34320.	2736.	739.2	163.7	5011.	47.87
#3	34640.	2748.	756.3	164.1	5042.	50.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3997**	**.4593**	**117.6**	**525.8**	**32.39**	**.6367**
Stddev	2.410	1.275	1.2	8.8	1.44	.2873
%RSD	602.8	277.7	1.006	1.664	4.458	45.12
#1	-2.242	.2805	116.2	516.8	30.79	.3108
#2	2.328	1.814	118.3	526.5	32.78	.8533
#3	-1.285	-.7171	118.3	534.2	33.59	.7460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151395-A-40-D@4 Acquired: 3/19/2018 15:34:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**71.60**	**241.9**	**1314.**	**1132.**
Stddev	.79	3.5	5.	10.
%RSD	1.107	1.441	.4151	.8450
#1	70.79	238.5	1308.	1137.
#2	71.63	241.7	1315.	1121.
#3	72.37	245.5	1318.	1138.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2889.2**	**26476.**	**2370.1**
Stddev	9.0	154.	35.1
%RSD	.31174	.58024	1.4807
#1	2883.8	26586.	2392.3
#2	2899.6	26541.	2388.4
#3	2884.2	26301.	2329.6

Sample Name: 460-151395-A-42-D@4 Acquired: 3/19/2018 15:38:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44080.**	**202.7**	**-.2864**	**881.4**	**3.316**	**49470.**
Stddev	174.	4.0	.8178	.5	.104	101.
%RSD	.3953	1.958	285.5	.0562	3.141	.2045
#1	43950.	207.3	-.5712	880.9	3.214	49540.
#2	44270.	200.9	.6357	881.9	3.422	49510.
#3	44000.	200.0	-.9237	881.5	3.311	49350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0877**	**75.16**	**95.49**	**73.68**	**114400.**	**10500.**
Stddev	.0471	.35	.04	.08	130.	35.
%RSD	53.72	.4599	.0439	.1030	.1138	.3308
#1	-.0530	75.10	95.48	73.62	114300.	10460.
#2	-.1413	74.84	95.46	73.66	114500.	10530.
#3	-.0688	75.53	95.54	73.77	114300.	10520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151395-A-42-D@4 Acquired: 3/19/2018 15:38:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28190.**	**5617.**	**719.4**	**118.0**	F **26730.**	**137.9**
Stddev	58.	3.	11.3	1.0	36.	.5
%RSD	.2072	.0511	1.575	.8678	.1343	.3637
#1	28230.	5616.	732.2	118.0	26770.	137.9
#2	28220.	5620.	710.8	117.0	26700.	138.5
#3	28130.	5615.	715.2	119.0	26730.	137.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					15000.	
Low Limit					-10.00	

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2586**	**1.467**	**76.52**	**504.6**	**27.58**	**-.5111**
Stddev	3.355	2.362	.71	5.8	.81	.1674
%RSD	1297.	161.0	.9313	1.143	2.930	32.76
#1	2.736	3.110	77.16	498.2	26.73	-.5125
#2	-3.559	-1.240	75.75	506.0	28.35	-.6778
#3	1.599	2.531	76.65	509.5	27.64	-.3430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151395-A-42-D@4 Acquired: 3/19/2018 15:38:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**25.41**	**332.3**	**1067.**	**1280.**
Stddev	.66	.9	1.	16.
%RSD	2.589	.2715	.1292	1.270
#1	25.84	331.3	1066.	1265.
#2	25.74	332.7	1068.	1297.
#3	24.65	333.0	1068.	1278.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2830.6**	**25737.**	**2293.9**
Stddev	40.5	358.	50.2
%RSD	1.4318	1.3891	2.1903
#1	2783.8	25450.	2264.4
#2	2854.9	25624.	2265.3
#3	2853.0	26137.	2351.9

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 15:45:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5696.**	**214.8**	**18.09**	**947.5**	**.4601**	**68730.**
Stddev	53.	2.3	.20	9.2	.1392	37.
%RSD	.9362	1.065	1.105	.9701	30.26	.0543
#1	5707.	216.6	18.31	957.4	.4322	68720.
#2	5744.	215.5	17.92	945.9	.3369	68700.
#3	5639.	212.2	18.04	939.2	.6111	68770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.63**	**54.40**	**318.9**	**1513.**	**136900.**	**947.9**
Stddev	.27	.76	1.5	9.	332.	34.1
%RSD	1.651	1.396	.4814	.5634	.2424	3.592
#1	16.84	55.27	317.1	1510.	136700.	980.6
#2	16.73	53.88	319.8	1507.	136700.	950.5
#3	16.32	54.04	319.7	1523.	137300.	912.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 15:45:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12330.**	**831.1**	**14180.**	**200.1**	**13880.**	**583.4**
Stddev	14.	.6	30.	2.1	132.	4.7
%RSD	.1101	.0686	.2100	1.046	.9475	.7973
#1	12340.	830.9	14180.	202.5	14030.	588.5
#2	12340.	831.8	14220.	198.9	13850.	579.4
#3	12310.	830.7	14160.	198.9	13770.	582.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.478**	**2.343**	**37.91**	**1383.**	**572.1**	**108.3**
Stddev	1.766	.975	.56	12.	3.3	.9
%RSD	23.62	41.60	1.485	.8594	.5849	.7977
#1	6.131	2.810	37.92	1396.	575.7	109.0
#2	6.826	1.222	37.34	1381.	571.4	108.5
#3	9.478	2.996	38.46	1373.	569.1	107.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 15:45:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12200.**	**160.9**	**437.5**	**117.9**
Stddev	132.	.3	.9	33.8
%RSD	1.084	.1655	.2111	28.69
#1	12350.	160.9	437.1	94.98
#2	12160.	161.1	436.9	101.9
#3	12100.	160.6	438.6	156.7
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2709.5**	**24426.**	**2167.9**
Stddev	32.9	43.	22.1
%RSD	1.2128	.17638	1.0188
#1	2679.9	24384.	2181.1
#2	2703.8	24424.	2142.4
#3	2744.8	24470.	2180.2

Sample Name: int-10b 5622488 Acquired: 3/19/2018 13:11:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.653**	**18.93**	**1.004**	**.1729**	**-2.926**	**17.50**
Stddev	15.68	2.11	.311	.0804	.148	10.45
%RSD	948.5	11.12	30.98	46.48	5.062	59.71
#1	2.369	20.44	1.273	.2609	-3.079	27.42
#2	16.96	16.53	1.075	.1544	-2.916	6.590
#3	-14.37	19.82	.6634	.1034	-2.784	18.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7343**	**3.407**	**9578.**	**9284.**	**22.14**	**44.59**
Stddev	.1424	.577	126.	164.	7.33	20.07
%RSD	19.39	16.93	1.313	1.763	33.12	45.00
#1	-.7118	4.032	9487.	9178.	24.05	24.09
#2	-.8867	2.895	9527.	9202.	14.04	45.51
#3	-.6046	3.294	9722.	9473.	28.33	64.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10b 5622488 Acquired: 3/19/2018 13:11:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-30.45**	**9399.**	**23.37**	**9973.**	**19.28**	**3.848**
Stddev	.99	109.	5.44	137.	.50	3.634
%RSD	3.245	1.164	23.28	1.373	2.582	94.42
#1	-30.25	9326.	21.64	10050.	18.89	7.666
#2	-29.58	9347.	19.01	9815.	19.12	.4316
#3	-31.52	9525.	29.47	10060.	19.84	3.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1202**	**5.648**	**3.846**	**-8.360**	**-65.70**	**4728.**
Stddev	3.001	.708	1.389	.337	1.89	67.
%RSD	2496.	12.54	36.11	4.028	2.878	1.424
#1	3.575	4.836	5.427	-8.732	-65.81	4759.
#2	-1.841	5.972	3.288	-8.077	-63.76	4651.
#3	-1.374	6.137	2.823	-8.271	-67.54	4774.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10b 5622488 Acquired: 3/19/2018 13:11:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-1.750**	**.3311**	**9347.**	F **-308.4**
Stddev	.873	.1823	141.	18.4
%RSD	49.90	55.04	1.505	5.962
#1	-.8216	.3055	9258.	-290.2
#2	-2.555	.5249	9273.	-327.0
#3	-1.874	.1631	9509.	-307.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2721.7**	**25262.**	**2191.6**
Stddev	42.2	176.	9.4
%RSD	1.5495	.69639	.42921
#1	2673.6	25310.	2183.1
#2	2739.4	25066.	2190.1
#3	2752.2	25408.	2201.7

Sample Name: LCSSRM 460-504339/2- Acquired: 3/19/2018 13:19:34 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33350.**	**680.4**	**186.6**	**1624.**	**283.0**	**22950.**
Stddev	613.	2.5	3.4	8.	3.6	546.
%RSD	1.838	.3672	1.806	.5048	1.255	2.378
#1	32650.	678.8	182.7	1615.	278.9	22330.
#2	33610.	679.2	188.4	1631.	285.3	23350.
#3	33790.	683.3	188.7	1626.	284.8	23170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1039.**	**468.8**	**397.5**	**824.5**	**59180.**	**8880.**
Stddev	6.	2.1	9.3	16.0	1363.	106.
%RSD	.5615	.4435	2.346	1.942	2.303	1.193
#1	1032.	466.4	386.7	806.1	57610.	8757.
#2	1043.	470.2	402.3	835.2	60040.	8936.
#3	1041.	469.7	403.4	832.3	59880.	8946.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-504339/2- Acquired: 3/19/2018 13:19:34 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10290.**	**1150.**	**1067.**	**788.1**	**448.9**	**237.5**
Stddev	240.	27.	7.	3.6	2.9	.6
%RSD	2.334	2.341	.6507	.4534	.6466	.2673
#1	10010.	1119.	1064.	784.2	446.2	236.8
#2	10460.	1168.	1062.	791.2	448.6	238.1
#3	10390.	1163.	1075.	788.9	452.0	237.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**954.7**	**819.3**	**465.6**	**1037.**	**371.0**	**770.3**
Stddev	12.0	6.4	10.5	7.	2.9	6.5
%RSD	1.256	.7770	2.249	.6880	.7741	.8415
#1	943.0	812.1	453.6	1029.	367.8	763.1
#2	954.1	824.1	472.7	1042.	373.2	772.4
#3	966.9	821.7	470.5	1041.	372.1	775.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-504339/2- Acquired: 3/19/2018 13:19:34 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**504.0**	**534.4**	**1679.**	**1081.**
Stddev	4.1	7.3	37.	41.
%RSD	.8096	1.367	2.226	3.771
#1	499.3	526.0	1636.	1035.
#2	507.1	537.9	1706.	1113.
#3	505.4	539.2	1695.	1095.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2785.1**	**25913.**	**2262.6**
Stddev	15.2	429.	46.3
%RSD	.54699	1.6542	2.0482
#1	2802.4	26401.	2315.2
#2	2773.6	25599.	2244.9
#3	2779.4	25738.	2227.7

Sample Name: LCS 460-504337/2-A@2 Acquired: 3/19/2018 16:04:39 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2464.**	**2335.**	**239.8**	**5101.**	**497.2**	**9979.**
Stddev	12.	35.	.7	65.	1.8	53.
%RSD	.5062	1.483	.2771	1.268	.3522	.5341
#1	2450.	2296.	239.2	5027.	496.8	9918.
#2	2474.	2348.	240.5	5143.	495.7	10020.
#3	2469.	2362.	239.8	5134.	499.1	10000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**514.8**	**519.6**	**2581.**	**484.2**	**537.5**	**9714.**
Stddev	6.6	6.7	10.	1.8	10.0	74.
%RSD	1.275	1.293	.4045	.3697	1.862	.7600
#1	507.3	511.9	2570.	483.0	540.7	9656.
#2	519.5	524.5	2591.	486.3	545.5	9689.
#3	517.6	522.4	2583.	483.4	526.3	9797.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Sample Name: LCS 460-504337/2-A@2 Acquired: 3/19/2018 16:04:39 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10110.**	**507.0**	**8965.**	**526.5**	**2606.**	**477.6**
Stddev	60.	2.4	133.	5.6	38.	3.4
%RSD	.5938	.4680	1.488	1.060	1.475	.7082
#1	10050.	504.4	8814.	520.1	2562.	473.7
#2	10170.	509.1	9017.	530.1	2633.	479.4
#3	10110.	507.4	9065.	529.5	2623.	479.7
Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**486.2**	**529.2**	**255.4**	**530.1**	**517.4**	**521.3**
Stddev	5.7	5.2	1.7	8.8	7.6	8.1
%RSD	1.181	.9837	.6460	1.661	1.465	1.546
#1	483.1	523.1	253.8	520.3	508.7	512.1
#2	492.8	532.4	255.3	537.2	521.5	524.7
#3	482.7	531.9	257.1	532.9	522.0	527.1
Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Sample Name: LCS 460-504337/2-A@2 Acquired: 3/19/2018 16:04:39 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**528.7**	**481.6**	**509.3**	**91.36**
Stddev	12.0	1.8	2.5	11.47
%RSD	2.270	.3718	.4866	12.56
#1	515.0	481.6	506.5	81.20
#2	537.2	479.9	511.2	103.8
#3	534.0	483.4	510.3	89.08
Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2714.1**	**24767.**	**2197.3**
Stddev	38.6	97.	33.5
%RSD	1.4227	.38965	1.5243
#1	2755.3	24878.	2222.0
#2	2678.7	24716.	2210.8
#3	2708.3	24706.	2159.2

Sample Name: 460-152163-C-1-A@10 Acquired: 3/19/2018 13:26:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29350.**	**1119.**	**96.72**	**4771.**	**2.807**	F **353200.**
Stddev	137.	16.	1.22	58.	.161	2435.
%RSD	.4675	1.445	1.264	1.210	5.748	.6895
#1	29310.	1127.	96.91	4797.	2.993	351300.
#2	29230.	1101.	95.42	4705.	2.709	352200.
#3	29500.	1130.	97.84	4811.	2.719	355900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**85.80**	**267.1**	**1598.**	**7962.**	F **682000.**	**4960.**
Stddev	1.80	3.1	10.	58.	4385.	29.
%RSD	2.093	1.178	.6289	.7324	.6431	.5932
#1	87.09	268.9	1591.	7936.	678500.	4965.
#2	83.74	263.5	1594.	7921.	680600.	4928.
#3	86.55	269.0	1610.	8029.	686900.	4986.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: 460-152163-C-1-A@10 Acquired: 3/19/2018 13:26:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**59700.**	**4197.**	**74790.**	**958.3**	F **66750.**	F **2975.**
Stddev	429.	25.	390.	11.2	883.	39.
%RSD	.7184	.5904	.5221	1.166	1.323	1.294
#1	59400.	4180.	74560.	962.5	67080.	2992.
#2	59500.	4185.	74560.	945.6	65750.	2931.
#3	60190.	4225.	75240.	966.7	67420.	3003.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					15000.	2000.
Low Limit					-10.00	-20.00

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**36.14**	**5.526**	**187.9**	F **6686.**	F **2797.**	**549.3**
Stddev	4.63	2.101	2.7	88.	35.	5.3
%RSD	12.80	38.02	1.422	1.315	1.240	.9735
#1	34.98	3.217	184.8	6722.	2812.	553.9
#2	32.20	6.037	189.7	6586.	2758.	543.4
#3	41.23	7.325	189.1	6751.	2822.	550.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				5000.	2000.	
Low Limit				-50.00	-50.00	

Sample Name: 460-152163-C-1-A@10 Acquired: 3/19/2018 13:26:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **58570.**	**808.8**	**2228.**	**693.4**
Stddev	775.	3.3	15.	58.7
%RSD	1.324	.4135	.6622	8.460
#1	58920.	807.0	2221.	663.5
#2	57680.	806.8	2218.	655.7
#3	59120.	812.7	2245.	761.0
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2558.9**	**23232.**	**2135.3**
Stddev	29.4	34.	4.2
%RSD	1.1486	.14769	.19743
#1	2539.5	23263.	2131.0
#2	2592.7	23237.	2139.5
#3	2544.6	23195.	2135.5

Sample Name: CCVL Acquired: 3/19/2018 16:16:02 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**224.0**	**16.14**	**10.29**	**218.0**	**2.069**	**5209.**
Stddev	6.8	2.68	.79	.6	.185	20.
%RSD	3.051	16.63	7.697	.2918	8.943	.3813
#1	221.8	14.92	9.727	217.3	1.877	5204.
#2	231.6	14.28	11.19	218.5	2.246	5193.
#3	218.5	19.21	9.943	218.2	2.085	5231.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.265**	**55.70**	**9.983**	**25.65**	**184.1**	**4963.**
Stddev	.008	.65	.437	.50	5.9	34.
%RSD	.1803	1.161	4.374	1.959	3.180	.6778
#1	4.257	54.97	10.44	25.07	177.3	4930.
#2	4.272	55.90	9.932	25.92	187.2	4963.
#3	4.266	56.22	9.574	25.97	187.7	4997.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 16:16:02 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5300.**	**16.06**	**4991.**	**45.20**	**11.71**	**22.63**
Stddev	51.	.15	50.	.78	1.41	.84
%RSD	.9567	.9236	1.011	1.736	12.05	3.704
#1	5269.	15.89	4972.	44.36	10.44	22.99
#2	5359.	16.15	4953.	45.32	11.46	23.22
#3	5272.	16.14	5048.	45.92	13.22	21.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.18**	**19.87**	**52.78**	**33.81**	F **30.15**	**21.85**
Stddev	3.96	.63	1.09	.89	1.76	.35
%RSD	17.84	3.191	2.057	2.620	5.823	1.603
#1	20.83	19.16	52.47	32.82	28.13	21.62
#2	19.07	20.39	53.99	34.11	31.05	22.25
#3	26.63	20.05	51.89	34.51	31.27	21.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 16:16:02 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.11**	**20.34**	**22.01**	F **-202.4**
Stddev	1.23	.16	.40	33.3
%RSD	2.199	.7981	1.816	16.45
#1	54.77	20.35	21.77	-239.2
#2	57.20	20.17	22.47	-193.7
#3	56.35	20.49	21.78	-174.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2719.0**	**25202.**	**2303.5**
Stddev	31.0	253.	34.2
%RSD	1.1390	1.0021	1.4832
#1	2752.3	25475.	2338.7
#2	2713.6	25154.	2301.5
#3	2691.1	24976.	2270.4

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 13:30:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5288.**	**198.3**	**16.64**	**875.6**	**.4842**	**63090.**
Stddev	37.	4.1	.15	7.6	.1579	213.
%RSD	.6986	2.092	.9235	.8689	32.62	.3373
#1	5322.	194.3	16.76	867.3	.5415	63290.
#2	5249.	202.5	16.47	877.2	.6054	63110.
#3	5294.	198.0	16.69	882.2	.3056	62860.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15.33**	**50.45**	**292.7**	**1384.**	**125900.**	**902.6**
Stddev	.29	.60	2.5	4.	339.	53.6
%RSD	1.870	1.187	.8407	.2653	.2689	5.944
#1	15.00	49.76	295.2	1388.	126300.	952.1
#2	15.49	50.84	290.2	1380.	125700.	845.6
#3	15.51	50.74	292.6	1384.	125600.	910.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 13:30:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11230.**	**767.4**	**13160.**	**184.9**	**12730.**	**534.5**
Stddev	35.	1.1	125.	2.1	106.	8.1
%RSD	.3115	.1475	.9463	1.118	.8302	1.511
#1	11270.	768.6	13290.	182.7	12610.	525.8
#2	11220.	766.3	13050.	185.0	12790.	535.8
#3	11200.	767.4	13130.	186.8	12780.	541.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.369**	**1.301**	**34.83**	**1266.**	**522.2**	**99.33**
Stddev	6.051	.681	.62	10.	7.7	1.51
%RSD	82.12	52.38	1.782	.7719	1.470	1.521
#1	.6672	1.928	34.83	1255.	513.8	97.66
#2	12.43	.5759	34.20	1275.	524.1	99.74
#3	9.008	1.399	35.44	1267.	528.7	100.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 13:30:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **11210.**	**148.2**	**401.3**	**102.2**
Stddev	70.	1.6	.4	2.8
%RSD	.6206	1.104	.1020	2.780
#1	11130.	150.1	401.6	104.8
#2	11240.	146.9	400.8	102.6
#3	11260.	147.7	401.4	99.20
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2701.2**	**24431.**	**2121.8**
Stddev	34.5	201.	11.2
%RSD	1.2787	.82424	.52738
#1	2708.8	24301.	2108.9
#2	2663.4	24329.	2127.4
#3	2731.2	24663.	2129.1

Sample Name: CCV Acquired: 3/19/2018 13:38:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124500.**	**2457.**	**1228.**	**10080.**	**1007.**	**124500.**
Stddev	798.	2.	5.	29.	4.	561.
%RSD	.6413	.0789	.3971	.2841	.3913	.4507
#1	123600.	2457.	1223.	10050.	1003.	124000.
#2	124700.	2460.	1233.	10100.	1009.	125100.
#3	125100.	2456.	1227.	10100.	1010.	124300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1256.**	**2509.**	**5027.**	**12350.**	**100900.**	**49710.**
Stddev	3.	7.	18.	55.	290.	175.
%RSD	.2127	.2739	.3511	.4417	.2876	.3522
#1	1253.	2502.	5008.	12290.	100700.	49510.
#2	1257.	2511.	5043.	12390.	101200.	49840.
#3	1257.	2515.	5032.	12380.	100800.	49790.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 13:38:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123500.**	**5049.**	**124700.**	**2518.**	**7533.**	**985.3**
Stddev	655.	24.	756.	9.	29.	5.4
%RSD	.5301	.4699	.6059	.3748	.3831	.5504
#1	123000.	5026.	123900.	2507.	7504.	980.0
#2	124200.	5073.	125100.	2525.	7562.	990.8
#3	123200.	5049.	125200.	2521.	7534.	985.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2457.**	**2515.**	**2507.**	**2527.**	**1004.**	**2504.**
Stddev	11.	6.	7.	6.	4.	7.
%RSD	.4531	.2469	.2918	.2176	.3607	.2862
#1	2450.	2512.	2499.	2521.	1002.	2496.
#2	2470.	2522.	2513.	2532.	1008.	2510.
#3	2450.	2511.	2508.	2529.	1002.	2507.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 13:38:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1005.**	**4998.**	**10080.**	**9728.**
Stddev	1.	19.	55.	34.
%RSD	.0824	.3792	.5494	.3498
#1	1004.	4977.	10020.	9728.
#2	1006.	5006.	10130.	9763.
#3	1006.	5012.	10090.	9694.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2527.8**	**23130.**	**2085.2**
Stddev	9.6	124.	21.0
%RSD	.37843	.53815	1.0077
#1	2538.8	23195.	2098.9
#2	2523.3	22986.	2095.7
#3	2521.3	23208.	2061.0

Sample Name: CCVL Acquired: 3/19/2018 13:45:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**227.5**	**15.39**	**9.859**	**209.7**	**1.842**	**5124.**
Stddev	4.7	1.71	.159	4.0	.033	21.
%RSD	2.053	11.10	1.616	1.918	1.762	.4191
#1	226.7	17.19	10.03	209.6	1.858	5148.
#2	223.3	15.19	9.829	205.8	1.863	5108.
#3	232.5	13.79	9.718	213.8	1.805	5115.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.164**	**53.43**	**10.10**	**24.28**	**180.1**	**5032.**
Stddev	.064	1.16	.13	.77	8.6	92.
%RSD	1.533	2.171	1.299	3.174	4.749	1.819
#1	4.232	52.92	10.17	23.75	183.8	5120.
#2	4.106	52.62	10.18	25.16	170.3	5039.
#3	4.154	54.76	9.946	23.92	186.1	4938.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 13:45:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5174.**	**15.83**	**5018.**	**42.69**	**11.87**	**20.45**
Stddev	49.	.11	60.	1.38	.42	1.68
%RSD	.9410	.6668	1.194	3.239	3.502	8.215
#1	5134.	15.95	5082.	42.02	11.87	18.54
#2	5161.	15.75	5008.	41.77	11.46	21.68
#3	5228.	15.79	4964.	44.28	12.29	21.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.56**	**20.42**	**52.05**	**32.25**	F **28.16**	**20.71**
Stddev	1.49	1.20	.08	.57	1.38	.47
%RSD	6.899	5.877	.1598	1.752	4.893	2.282
#1	22.74	20.13	52.09	31.77	27.90	20.23
#2	22.05	19.39	51.95	32.11	26.93	20.71
#3	19.89	21.74	52.10	32.87	29.65	21.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 13:45:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**53.28**	**20.11**	**21.26**	F **-228.5**
Stddev	1.97	.22	.22	32.2
%RSD	3.690	1.083	1.048	14.10
#1	54.36	20.34	21.04	-192.5
#2	51.01	20.08	21.49	-238.2
#3	54.47	19.90	21.24	-254.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2793.5**	**25398.**	**2211.2**
Stddev	46.6	104.	33.6
%RSD	1.6689	.41014	1.5207
#1	2801.7	25296.	2173.4
#2	2835.4	25505.	2222.0
#3	2743.3	25394.	2238.0

Sample Name: Acquired: 3/19/2018 13:53:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.730**	**.1239**	**.0073**	**.2237**	**.0312**	**54.14**
Stddev	4.711	.2277	.1601	.0236	.1678	5.85
%RSD	60.94	183.7	2206.	10.55	537.4	10.80
#1	11.63	-.0208	.0098	.2426	-.1027	58.98
#2	2.497	.0063	-.1541	.2312	-.0231	55.80
#3	9.064	.3863	.1661	.1972	.2195	47.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4205**	**.5775**	**-.9664**	**-5.427**	**12.50**	**63.70**
Stddev	.0323	.1048	.5252	.061	9.32	18.09
%RSD	7.675	18.15	54.34	1.129	74.59	28.40
#1	.4213	.6832	-1.371	-5.375	21.98	46.80
#2	.4523	.5756	-1.155	-5.411	12.18	82.77
#3	.3878	.4736	-.3730	-5.494	3.344	61.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 13:53:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.725**	**.0496**	**1.885**	**.6008**	**2.052**	**-1.383**
Stddev	4.964	.0160	4.234	.2786	.153	.921
%RSD	182.1	32.15	224.6	46.36	7.468	66.58
#1	4.459	.0496	-2.474	.7214	2.057	-1.401
#2	6.590	.0656	5.982	.2823	1.897	-2.296
#3	-2.873	.0337	2.147	.7987	2.203	-.4536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.466**	**4.754**	**1.667**	**-.2559**	**-28.97**	**.0648**
Stddev	.792	.219	.214	.1049	.38	.0735
%RSD	32.12	4.601	12.86	41.01	1.304	113.5
#1	-1.784	4.664	1.583	-.1466	-28.53	.1494
#2	-3.334	5.004	1.911	-.2653	-29.18	.0172
#3	-2.279	4.595	1.508	-.3559	-29.19	.0277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 13:53:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2902**	**.0237**	**-.0724**	F **-285.0**
Stddev	.7774	.1219	.0469	7.7
%RSD	267.9	514.9	64.78	2.715
#1	1.127	-.0008	-.1156	-293.9
#2	-.4102	-.0841	-.0790	-281.6
#3	.1543	.1560	-.0225	-279.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**5662.5**	**48194.**	**3891.1**
Stddev	127.9	1819.	323.8
%RSD	2.2584	3.7742	8.3210
#1	5605.5	49975.	3600.3
#2	5809.0	48268.	4240.0
#3	5573.1	46339.	3833.2

Sample Name: 460-152124-E-1-A@4 Acquired: 3/19/2018 13:57:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**69130.**	**-5.221**	**.4115**	**56.62**	**-1.699**	**46370.**
Stddev	794.	2.960	.5517	.34	.028	716.
%RSD	1.148	56.70	134.1	.5962	1.668	1.544
#1	68220.	-8.563	1.018	56.23	-1.710	45540.
#2	69530.	-2.926	-.0609	56.77	-1.721	46780.
#3	69660.	-4.175	.2777	56.85	-1.667	46790.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.073**	**77.89**	**10.52**	**790.2**	**165300.**	**2883.**
Stddev	.337	.44	.50	9.2	2392.	37.
%RSD	31.43	.5692	4.743	1.169	1.447	1.272
#1	-.7024	77.93	10.10	779.6	162500.	2854.
#2	-1.362	77.43	11.07	794.6	166700.	2924.
#3	-1.154	78.32	10.39	796.4	166700.	2870.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152124-E-1-A@4 Acquired: 3/19/2018 13:57:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26070.**	**752.5**	**27030.**	**55.98**	**34.77**	**2.211**
Stddev	344.	12.0	295.	.56	1.27	1.180
%RSD	1.320	1.592	1.090	1.004	3.640	53.36
#1	25680.	738.7	26690.	55.47	35.58	1.193
#2	26310.	759.4	27160.	56.58	33.31	3.504
#3	26230.	759.5	27240.	55.90	35.42	1.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.270**	**2.633**	**486.0**	**235.2**	**208.5**	**.8201**
Stddev	2.502	.376	8.6	2.8	3.1	.2757
%RSD	110.2	14.27	1.766	1.183	1.510	33.61
#1	4.488	2.288	476.3	232.1	205.4	1.038
#2	2.763	2.579	492.7	235.9	208.4	.9121
#3	-.4417	3.033	489.0	237.6	211.7	.5102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152124-E-1-A@4 Acquired: 3/19/2018 13:57:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**8.928**	**289.7**	**5596.**	**377.0**
Stddev	2.369	3.1	74.	49.5
%RSD	26.53	1.053	1.324	13.14
#1	10.08	286.3	5510.	381.7
#2	10.50	290.9	5640.	424.1
#3	6.204	292.0	5638.	325.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2839.9**	**26006.**	**2318.8**
Stddev	17.1	321.	43.3
%RSD	.60061	1.2348	1.8653
#1	2859.2	26364.	2363.4
#2	2827.0	25911.	2316.0
#3	2833.6	25743.	2277.0

Sample Name: 460-152130-D-2-A@4 Acquired: 3/19/2018 14:05:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**77260.**	**28.28**	**-.4336**	**267.8**	**3.074**	**8333.**
Stddev	562.	1.47	.5319	.2	.083	103.
%RSD	.7278	5.203	122.7	.0595	2.710	1.236
#1	76620.	26.75	-.7157	268.0	2.986	8215.
#2	77510.	29.68	.1799	267.7	3.152	8384.
#3	77660.	28.40	-.7650	267.8	3.083	8401.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9981**	**23.30**	**135.5**	**45.30**	**138100.**	**6246.**
Stddev	.3075	.48	.9	.54	1505.	50.
%RSD	30.81	2.044	.6282	1.200	1.090	.7941
#1	-.6441	23.48	134.6	44.87	136400.	6210.
#2	-1.199	23.66	135.6	45.11	138800.	6303.
#3	-1.151	22.76	136.3	45.91	139100.	6225.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-2-A@4 Acquired: 3/19/2018 14:05:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9020.**	**506.6**	**558.2**	**50.45**	**50.53**	**-.0398**
Stddev	98.	6.1	4.7	.70	1.41	.9455
%RSD	1.086	1.200	.8447	1.380	2.796	2376.
#1	8919.	499.6	556.0	49.64	48.90	.1882
#2	9115.	509.4	563.6	50.85	51.26	-1.078
#3	9027.	510.7	554.9	50.85	51.42	.7709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8681**	**1.690**	**223.1**	**133.7**	**-.0052**	**2.182**
Stddev	2.415	.893	2.0	.2	.9789	.333
%RSD	278.2	52.87	.9185	.1455	18740.	15.26
#1	-1.833	2.721	220.7	133.8	-.6505	1.798
#2	2.818	1.187	224.6	133.9	1.121	2.386
#3	1.619	1.161	223.9	133.5	-.4863	2.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-2-A@4 Acquired: 3/19/2018 14:05:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**11.21**	**90.81**	**1797.**	**1429.**
Stddev	1.85	.58	20.	22.
%RSD	16.54	.6366	1.132	1.566
#1	9.494	90.15	1774.	1449.
#2	13.18	91.07	1807.	1405.
#3	10.96	91.21	1811.	1433.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2893.3**	**26352.**	**2305.2**
Stddev	14.6	177.	14.5
%RSD	.50481	.67139	.62898
#1	2878.1	26553.	2321.8
#2	2907.3	26222.	2298.8
#3	2894.6	26280.	2295.0

Sample Name: 460-152130-D-4-A@4 Acquired: 3/19/2018 14:12:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**71400.**	**23.00**	**-.7423**	**263.7**	**2.403**	**5731.**
Stddev	446.	2.38	.5696	2.1	.048	52.
%RSD	.6247	10.33	76.73	.7929	2.011	.9132
#1	71490.	24.85	-1.019	261.3	2.414	5755.
#2	70910.	20.32	-.0872	264.9	2.445	5671.
#3	71790.	23.83	-1.121	264.9	2.351	5767.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2442**	**31.33**	**142.0**	**59.95**	**117600.**	**4925.**
Stddev	.1972	.58	1.9	.48	1154.	63.
%RSD	80.76	1.841	1.341	.7928	.9816	1.276
#1	.0276	30.76	141.8	60.27	118000.	4858.
#2	.4134	31.31	140.2	59.40	116300.	4983.
#3	.2914	31.92	144.0	60.17	118500.	4932.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-4-A@4 Acquired: 3/19/2018 14:12:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12030.**	**634.4**	**203.2**	**59.95**	**76.75**	**-.6348**
Stddev	159.	5.9	24.3	.82	.47	.3890
%RSD	1.317	.9358	11.97	1.374	.6151	61.27
#1	12210.	635.8	223.5	59.02	77.07	-1.080
#2	11940.	627.9	176.2	60.25	76.21	-.3639
#3	11940.	639.6	210.0	60.58	76.97	-.4600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.206**	**1.273**	**213.1**	**185.1**	**4.187**	**2.109**
Stddev	3.079	1.735	2.2	1.6	.803	.307
%RSD	96.02	136.3	1.042	.8866	19.17	14.54
#1	4.466	2.807	215.4	183.2	4.586	1.780
#2	5.454	-.6104	213.0	185.8	3.263	2.387
#3	-.3028	1.622	211.0	186.3	4.712	2.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-4-A@4 Acquired: 3/19/2018 14:12:51 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**9.549**	**39.61**	**2583.**	**959.1**
Stddev	.627	.26	22.	34.6
%RSD	6.571	.6572	.8359	3.610
#1	8.944	39.55	2585.	962.5
#2	10.20	39.39	2561.	922.9
#3	9.506	39.90	2604.	991.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2956.1**	**26913.**	**2373.5**
Stddev	24.4	422.	57.9
%RSD	.82529	1.5665	2.4389
#1	2938.6	26427.	2333.1
#2	2945.7	27132.	2347.5
#3	2983.9	27180.	2439.8

Sample Name: 460-152130-D-6-A@4 Acquired: 3/19/2018 14:20:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28420.**	**8.614**	**.1996**	**314.1**	**1.520**	**2913.**
Stddev	50.	3.514	.3363	2.6	.052	12.
%RSD	.1751	40.79	168.5	.8161	3.444	.4208
#1	28410.	11.27	.0953	311.5	1.537	2914.
#2	28470.	4.630	.5757	316.6	1.562	2924.
#3	28370.	9.944	-.0722	314.2	1.462	2900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5331**	**98.87**	**72.92**	**62.66**	**80120.**	**2564.**
Stddev	.0457	.94	.32	.92	277.	42.
%RSD	8.580	.9465	.4450	1.466	.3454	1.636
#1	-.5352	98.20	72.93	63.56	80270.	2530.
#2	-.5778	99.94	72.59	62.70	80290.	2553.
#3	-.4863	98.46	73.24	61.72	79800.	2611.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-6-A@4 Acquired: 3/19/2018 14:20:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2786.**	**3230.**	**129.4**	**38.39**	**38.89**	**.0032**
Stddev	27.	7.	15.3	.21	.59	.4839
%RSD	.9795	.2182	11.79	.5495	1.523	15220.
#1	2815.	3238.	146.1	38.21	38.71	-.4013
#2	2785.	3229.	116.1	38.34	39.55	-.1285
#3	2760.	3224.	126.1	38.62	38.41	.5393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8532**	**1.739**	**145.2**	**109.4**	**-8.131**	**1.434**
Stddev	2.522	1.888	1.1	1.0	.127	.139
%RSD	295.6	108.6	.7541	.9042	1.556	9.696
#1	3.199	-.2075	144.0	108.7	-8.060	1.343
#2	1.175	1.862	146.2	109.0	-8.277	1.365
#3	-1.814	3.562	145.3	110.6	-8.057	1.594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-6-A@4 Acquired: 3/19/2018 14:20:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**6.963**	**17.84**	**1140.**	**935.7**
Stddev	1.027	.12	4.	17.4
%RSD	14.75	.6962	.3486	1.862
#1	8.129	17.91	1144.	927.5
#2	6.571	17.70	1140.	923.9
#3	6.190	17.92	1136.	955.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2870.3**	**26333.**	**2303.9**
Stddev	28.3	183.	16.6
%RSD	.98563	.69546	.72210
#1	2851.1	26174.	2319.4
#2	2857.1	26291.	2286.3
#3	2902.8	26533.	2305.9

Sample Name: 460-152130-D-7-A@4 Acquired: 3/19/2018 14:24:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28250.**	**6.284**	**-.4296**	**243.4**	**2.130**	**2462.**
Stddev	259.	2.105	.3205	3.0	.007	22.
%RSD	.9172	33.50	74.60	1.215	.3188	.8947
#1	27960.	7.787	-.7397	244.3	2.138	2451.
#2	28350.	3.878	-.4496	240.1	2.127	2487.
#3	28450.	7.188	-.0996	245.8	2.126	2447.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8590**	**86.90**	**68.37**	**49.09**	**93360.**	**3381.**
Stddev	.0781	1.13	.50	.95	763.	40.
%RSD	9.095	1.299	.7263	1.940	.8167	1.183
#1	-.7693	87.04	68.87	48.71	92950.	3336.
#2	-.8953	85.70	68.36	50.17	94240.	3397.
#3	-.9124	87.94	67.88	48.38	92880.	3412.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-7-A@4 Acquired: 3/19/2018 14:24:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3217.**	**2890.**	**93.60**	**30.47**	**62.92**	**.0585**
Stddev	39.	22.	7.70	.57	1.44	2.133
%RSD	1.218	.7747	8.228	1.857	2.285	3643.
#1	3194.	2876.	94.10	29.92	62.21	-1.151
#2	3262.	2916.	101.0	30.44	61.98	-1.194
#3	3195.	2878.	85.66	31.05	64.57	2.521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8804**	**1.086**	**124.3**	**99.45**	**-3.037**	**1.472**
Stddev	.6222	1.426	1.1	1.40	.267	.264
%RSD	70.67	131.4	.9204	1.404	8.777	17.94
#1	.1717	-.5604	124.8	98.55	-3.325	1.245
#2	1.337	1.955	125.2	98.75	-2.986	1.762
#3	1.133	1.862	123.0	101.1	-2.799	1.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-7-A@4 Acquired: 3/19/2018 14:24:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**8.576**	**25.72**	**989.2**	**1064.**
Stddev	.758	.26	7.1	20.
%RSD	8.840	1.023	.7132	1.910
#1	8.393	25.57	982.7	1057.
#2	9.409	25.57	996.7	1047.
#3	7.926	26.03	988.3	1086.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2845.6**	**25942.**	**2252.9**
Stddev	37.5	385.	34.5
%RSD	1.3161	1.4834	1.5326
#1	2813.1	25768.	2257.0
#2	2886.6	25675.	2216.4
#3	2837.2	26383.	2285.1

Sample Name: CCV Acquired: 3/19/2018 14:28:21 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**126600.**	**2515.**	**1251.**	**10250.**	**1019.**	**126500.**
Stddev	453.	6.	4.	8.	2.	144.
%RSD	.3577	.2574	.3238	.0804	.1977	.1138
#1	126100.	2512.	1254.	10260.	1019.	126600.
#2	127000.	2511.	1252.	10240.	1020.	126400.
#3	126500.	2523.	1246.	10250.	1016.	126400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1280.**	**2556.**	**5122.**	**12620.**	**102500.**	**50160.**
Stddev	2.	6.	8.	39.	187.	164.
%RSD	.1535	.2217	.1544	.3104	.1820	.3273
#1	1282.	2555.	5122.	12640.	102700.	49970.
#2	1278.	2550.	5114.	12650.	102600.	50290.
#3	1281.	2562.	5130.	12580.	102300.	50210.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 14:28:21 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**126000.**	**5106.**	**126500.**	**2564.**	**7710.**	**1003.**
Stddev	186.	6.	352.	6.	9.	1.
%RSD	.1479	.1153	.2784	.2400	.1116	.1223
#1	126300.	5113.	126100.	2571.	7710.	1004.
#2	126000.	5102.	126800.	2558.	7701.	1002.
#3	125900.	5102.	126600.	2563.	7719.	1004.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2515.**	**2555.**	**2537.**	**2584.**	**1017.**	**2546.**
Stddev	5.	12.	6.	6.	3.	1.
%RSD	.1987	.4711	.2475	.2190	.3066	.0458
#1	2510.	2542.	2543.	2589.	1019.	2546.
#2	2513.	2556.	2539.	2578.	1014.	2545.
#3	2520.	2566.	2530.	2586.	1019.	2547.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 14:28:21 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1024.**	**5079.**	**10230.**	**9844.**
Stddev	5.	15.	17.	30.
%RSD	.4425	.2988	.1667	.3083
#1	1020.	5071.	10250.	9812.
#2	1023.	5097.	10230.	9872.
#3	1029.	5070.	10210.	9848.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2537.9**	**23174.**	**2084.1**
Stddev	4.8	151.	10.9
%RSD	.18967	.65201	.52520
#1	2543.3	23291.	2096.7
#2	2536.1	23226.	2077.0
#3	2534.2	23003.	2078.6

Sample Name: CCB Acquired: 3/19/2018 14:31:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.369**	**.6238**	**.2579**	**.1385**	**.0885**	**-3.542**
Stddev	18.89	2.817	.4148	.0699	.0586	9.722
%RSD	256.4	451.6	160.8	50.49	66.24	274.5
#1	15.94	-2.441	-.2011	.1718	.1260	-9.785
#2	20.46	3.101	.6058	.0582	.1185	7.660
#3	-14.29	1.211	.3691	.1856	.0209	-8.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1348**	**.1491**	**-.7284**	**-.0547**	**14.58**	**26.39**
Stddev	.0490	.3621	.4030	.2949	5.99	48.23
%RSD	36.38	242.9	55.32	539.6	41.07	182.8
#1	-.1339	-.2687	-.4743	.1854	13.59	-29.08
#2	-.1842	.3444	-1.193	-.3839	21.00	58.46
#3	-.0862	.3715	-.5179	.0345	9.147	49.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 14:31:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.469**	**.0862**	**6.185**	**.0876**	**.6947**	**.9778**
Stddev	5.715	.0706	19.71	.3849	.7227	1.671
%RSD	88.33	81.84	318.7	439.2	104.0	170.9
#1	8.873	.1642	-.4364	.4105	1.429	.1119
#2	-.0545	.0677	-9.363	.1907	-.0153	2.904
#3	10.59	.0268	28.35	-.3383	.6700	-.0824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.513**	**.7283**	**.0601**	**-.2418**	**.1675**	**.2023**
Stddev	1.711	1.290	.6983	.1617	.9053	.4041
%RSD	113.1	177.2	1162.	66.90	540.5	199.7
#1	.0532	-.7462	-.7461	-.2971	.3500	.5764
#2	3.395	1.651	.4561	-.3686	.9677	.2567
#3	1.090	1.280	.4703	-.0596	-.8152	-.2262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 14:31:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1105**	**.0606**	**.2610**	**4.654**
Stddev	.8771	.0278	.4013	18.03
%RSD	793.9	45.91	153.8	387.4
#1	-.8499	.0289	.7189	-6.921
#2	.3124	.0810	.0939	25.43
#3	.8690	.0719	-.0298	-4.543
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2771.0**	**25621.**	**2265.5**
Stddev	23.2	277.	6.9
%RSD	.83833	1.0809	.30265
#1	2783.5	25675.	2266.9
#2	2744.2	25866.	2271.5
#3	2785.3	25321.	2258.0

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 14:40:02 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42030.**	**11.25**	**-.4737**	**213.7**	**1.414**	**1119.**
Stddev	423.	4.51	.1803	1.3	.106	11.
%RSD	1.006	40.10	38.07	.6124	7.506	1.001
#1	41550.	7.106	-.2691	212.5	1.308	1116.
#2	42240.	16.06	-.6097	213.5	1.413	1109.
#3	42320.	10.60	-.5423	215.1	1.521	1131.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5528**	**37.05**	**77.81**	**48.79**	**68190.**	**3551.**
Stddev	.0980	.72	1.07	.38	263.	27.
%RSD	17.73	1.931	1.380	.7790	.3862	.7673
#1	-.5922	36.36	77.97	48.52	68380.	3534.
#2	-.6249	37.79	76.67	49.23	67890.	3536.
#3	-.4412	37.00	78.80	48.63	68310.	3583.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 14:40:02 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5138.**	**332.8**	**338.5**	**38.98**	**97.76**	**1.480**
Stddev	50.	1.1	11.9	.59	2.23	2.071
%RSD	.9695	.3441	3.528	1.507	2.283	140.0
#1	5103.	333.7	328.6	38.35	95.19	-.9080
#2	5115.	331.5	351.8	39.51	98.99	2.797
#3	5195.	333.2	335.1	39.08	99.11	2.550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.998**	**1.354**	**123.3**	**148.2**	**-1.583**	**1.300**
Stddev	3.778	.202	1.4	.9	.250	.206
%RSD	189.0	14.91	1.139	.6074	15.79	15.86
#1	6.020	1.329	122.2	147.2	-1.630	1.097
#2	1.453	1.567	122.9	148.9	-1.806	1.509
#3	-1.477	1.166	124.9	148.5	-1.313	1.295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 14:40:02 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**11.22**	**15.72**	**1162.**	**1033.**
Stddev	1.38	.12	6.	4.
%RSD	12.26	.7642	.4880	.4136
#1	10.95	15.64	1165.	1028.
#2	9.999	15.66	1156.	1036.
#3	12.71	15.86	1166.	1034.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2851.8**	**26109.**	**2328.7**
Stddev	11.0	146.	29.7
%RSD	.38661	.55802	1.2735
#1	2861.1	26011.	2361.4
#2	2854.7	26277.	2321.0
#3	2839.6	26041.	2303.6

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 14:47:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34500.**	**-2.142**	**.4669**	**199.7**	**2.316**	**1774.**
Stddev	410.	2.430	.5668	.6	.192	12.
%RSD	1.188	113.4	121.4	.3127	8.301	.6689
#1	34290.	-4.182	-.1527	199.3	2.300	1765.
#2	34970.	-2.792	.5939	199.4	2.132	1770.
#3	34240.	.5467	.9594	200.4	2.516	1788.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9655**	**79.72**	**70.11**	**57.64**	**145300.**	**2349.**
Stddev	.0678	.16	.68	.62	384.	18.
%RSD	7.020	.1998	.9633	1.074	.2643	.7812
#1	-1.039	79.62	70.85	58.05	145100.	2366.
#2	-.9512	79.91	69.53	56.93	145000.	2330.
#3	-.9060	79.65	69.95	57.95	145700.	2351.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 14:47:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8093.**	**912.7**	**243.5**	**89.51**	**29.87**	**-.9311**
Stddev	11.	2.8	5.6	.19	.81	1.205
%RSD	.1391	.3086	2.315	.2075	2.718	129.4
#1	8080.	910.9	245.0	89.50	30.80	.4190
#2	8098.	911.2	248.3	89.32	29.50	-1.314
#3	8101.	915.9	237.3	89.69	29.31	-1.898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.172**	**1.681**	**62.75**	**168.2**	**-4.678**	**2.622**
Stddev	.976	1.105	.32	2.0	.756	.317
%RSD	44.90	65.75	.5148	1.163	16.16	12.07
#1	3.265	2.941	62.43	166.1	-4.173	2.285
#2	1.865	1.226	63.08	168.5	-5.547	2.913
#3	1.388	.8755	62.75	170.0	-4.313	2.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 14:47:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.651**	**18.94**	**607.6**	**751.2**
Stddev	.701	.06	1.8	47.4
%RSD	9.168	.3050	.2983	6.309
#1	7.641	19.00	607.0	702.0
#2	6.955	18.93	606.1	796.5
#3	8.358	18.89	609.6	755.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2876.1**	**26201.**	**2300.6**
Stddev	17.7	151.	31.7
%RSD	.61656	.57581	1.3798
#1	2871.2	26336.	2330.1
#2	2861.3	26228.	2267.0
#3	2895.8	26038.	2304.7

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 14:55:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38740.**	**20.15**	**4.425**	**1056.**	**3.303**	**2717.**
Stddev	213.	1.54	.288	1.	.160	11.
%RSD	.5507	7.646	6.517	.1151	4.841	.3909
#1	38980.	21.26	4.272	1054.	3.151	2723.
#2	38690.	20.80	4.246	1056.	3.470	2705.
#3	38560.	18.39	4.758	1057.	3.290	2724.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.193**	**393.4**	**110.3**	**78.50**	**199900.**	**2945.**
Stddev	.152	.8	.7	.90	330.	9.
%RSD	2.925	.2129	.6152	1.146	.1651	.3121
#1	5.029	394.2	110.0	77.49	200300.	2955.
#2	5.329	392.5	109.9	79.22	199700.	2941.
#3	5.221	393.5	111.1	78.80	199800.	2938.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 14:55:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7621.**	F **35800.**	**847.2**	**101.1**	**36.54**	**-2.550**
Stddev	36.	105.	19.4	.3	.87	1.808
%RSD	.4766	.2929	2.288	.3451	2.383	70.91
#1	7662.	35920.	867.1	100.8	36.16	-.7493
#2	7609.	35770.	846.2	101.3	37.54	-2.535
#3	7593.	35720.	828.3	101.4	35.93	-4.366
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-15.00				

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.849**	**19.54**	**100.2**	**229.0**	**-39.74**	**2.426**
Stddev	4.391	.85	.9	3.7	.34	.011
%RSD	55.94	4.333	.8570	1.603	.8519	.4441
#1	11.81	20.03	100.1	225.2	-39.85	2.433
#2	8.613	20.03	99.44	229.3	-39.36	2.431
#3	3.127	18.56	101.1	232.5	-40.01	2.413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 14:55:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.143**	**30.07**	**675.7**	**787.1**
Stddev	.810	.37	.6	42.6
%RSD	11.33	1.221	.0815	5.414
#1	7.602	30.49	675.6	760.2
#2	7.619	29.91	676.2	836.3
#3	6.209	29.81	675.1	765.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2863.4**	**26072.**	**2307.6**
Stddev	10.8	165.	35.3
%RSD	.37685	.63351	1.5307
#1	2852.4	25883.	2268.4
#2	2874.0	26144.	2317.4
#3	2863.9	26189.	2337.0

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 14:59:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**61210.**	**61.53**	**1.376**	**374.6**	**3.561**	**5102.**
Stddev	373.	4.83	.397	.3	.024	38.
%RSD	.6098	7.849	28.84	.0769	.6662	.7382
#1	60820.	56.84	1.434	374.4	3.553	5059.
#2	61240.	61.27	1.740	374.5	3.542	5119.
#3	61570.	66.49	.9528	374.9	3.588	5129.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6283**	**114.1**	**157.1**	**179.1**	**129900.**	**2261.**
Stddev	.1014	.6	.5	1.1	520.	9.
%RSD	16.14	.5410	.3321	.6364	.4001	.4047
#1	-.5575	113.5	156.5	180.4	129400.	2259.
#2	-.7444	114.1	157.2	178.3	129800.	2271.
#3	-.5830	114.7	157.5	178.7	130400.	2253.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 14:59:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9568.**	**1237.**	**1165.**	**98.38**	**61.20**	**2.852**
Stddev	69.	5.	13.	.18	.03	.771
%RSD	.7258	.4388	1.154	.1863	.0409	27.02
#1	9488.	1231.	1151.	98.18	61.20	3.281
#2	9606.	1238.	1178.	98.54	61.18	3.314
#3	9610.	1242.	1165.	98.41	61.23	1.962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.677**	**2.646**	**324.7**	**208.4**	**-4.891**	**12.40**
Stddev	2.219	1.044	.7	2.2	.504	.17
%RSD	60.35	39.47	.2121	1.079	10.30	1.359
#1	5.839	3.850	324.6	206.5	-5.080	12.51
#2	1.406	1.987	324.0	207.9	-4.320	12.48
#3	3.786	2.101	325.4	210.9	-5.274	12.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 14:59:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**10.45**	**49.54**	**4130.**	**674.3**
Stddev	1.11	.09	10.	26.5
%RSD	10.61	.1858	.2347	3.931
#1	9.963	49.53	4120.	699.7
#2	9.673	49.46	4132.	676.4
#3	11.72	49.64	4139.	646.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**3057.6**	**27951.**	**2474.4**
Stddev	12.9	259.	48.7
%RSD	.42299	.92752	1.9676
#1	3062.2	28205.	2521.8
#2	3067.6	27963.	2477.0
#3	3043.0	27687.	2424.5

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 15:07:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38870.**	**32.00**	**.3806**	**136.3**	**2.185**	**13480.**
Stddev	189.	1.90	.4051	.9	.168	124.
%RSD	.4853	5.944	106.4	.6239	7.679	.9172
#1	39080.	32.64	.4146	135.3	2.372	13400.
#2	38730.	33.50	-.0405	136.8	2.046	13420.
#3	38800.	29.86	.7676	136.8	2.138	13620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4331**	**168.6**	**108.4**	**106.3**	**99890.**	**2738.**
Stddev	.0984	1.1	.8	1.1	787.	85.
%RSD	22.72	.6271	.7109	.9911	.7874	3.098
#1	-.3954	167.4	108.5	105.1	99470.	2833.
#2	-.3591	169.5	107.6	107.0	99390.	2711.
#3	-.5448	168.8	109.2	106.9	100800.	2670.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 15:07:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14220.**	**2738.**	**1001.**	**72.03**	**36.26**	**-.1871**
Stddev	132.	24.	10.	.94	.52	.9761
%RSD	.9254	.8907	1.043	1.302	1.435	521.6
#1	14150.	2726.	1013.	70.98	36.54	.0692
#2	14130.	2722.	998.6	72.78	36.58	.6352
#3	14370.	2766.	992.5	72.33	35.66	-1.266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.906**	**.7377**	**165.5**	**169.7**	**-.6384**	**4.361**
Stddev	2.112	1.358	1.9	2.6	.6247	.060
%RSD	54.08	184.1	1.167	1.560	97.85	1.375
#1	6.298	2.245	164.8	166.7	-.4289	4.292
#2	3.119	.3581	164.1	170.9	-1.341	4.391
#3	2.299	-.3899	167.7	171.6	-.1454	4.401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 15:07:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**8.577**	**68.25**	**1205.**	**956.7**
Stddev	1.389	.49	8.	46.2
%RSD	16.20	.7194	.6557	4.824
#1	8.565	68.79	1201.	1002.
#2	7.194	67.83	1199.	957.4
#3	9.973	68.14	1214.	910.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2791.2**	**25533.**	**2241.1**
Stddev	2.0	31.	12.2
%RSD	.07242	.12036	.54541
#1	2793.2	25561.	2227.1
#2	2789.2	25537.	2249.6
#3	2791.1	25500.	2246.5

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 15:14:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29230.**	**11.23**	**-.6010**	**289.9**	**3.655**	**10320.**
Stddev	24.	2.92	.5354	6.7	.019	39.
%RSD	.0811	25.96	89.08	2.313	.5263	.3798
#1	29230.	10.61	-.7108	294.4	3.674	10300.
#2	29260.	8.681	-.0192	282.2	3.653	10300.
#3	29210.	14.41	-1.073	293.2	3.636	10370.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.9610**	**61.71**	**102.4**	**135.9**	**56230.**	**6081.**
Stddev	.2161	1.07	2.0	.7	276.	25.
%RSD	22.49	1.732	1.983	.5399	.4915	.4132
#1	1.071	62.26	100.2	136.0	56120.	6052.
#2	.7120	60.48	102.9	135.1	56030.	6101.
#3	1.100	62.40	104.2	136.5	56550.	6088.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 15:14:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11700.**	**520.6**	**40680.**	**87.02**	**239.7**	**1.294**
Stddev	59.	1.2	35.	.72	2.8	.523
%RSD	.5068	.2273	.0864	.8280	1.149	40.43
#1	11690.	520.4	40650.	87.26	242.2	1.775
#2	11640.	519.5	40720.	86.21	236.7	1.370
#3	11760.	521.8	40690.	87.59	240.1	.7370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.528**	**-.4997**	**83.21**	**503.8**	**21.34**	**3.738**
Stddev	2.059	1.523	.65	4.5	.52	.175
%RSD	134.8	304.7	.7812	.9015	2.425	4.691
#1	-.6861	.1294	83.55	504.5	21.93	3.824
#2	-.0234	-2.236	82.46	499.0	21.05	3.537
#3	-3.875	.6078	83.62	508.0	21.02	3.854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 15:14:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**58.17**	**194.1**	**432.5**	**821.8**
Stddev	.68	.4	1.8	14.6
%RSD	1.161	.2105	.4256	1.774
#1	58.65	194.5	432.2	836.5
#2	58.47	194.1	430.9	807.3
#3	57.40	193.7	434.5	821.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2834.6**	**25579.**	**2270.4**
Stddev	61.7	146.	26.4
%RSD	2.1763	.56979	1.1636
#1	2810.9	25683.	2298.7
#2	2904.7	25642.	2266.1
#3	2788.3	25413.	2246.4

Sample Name: CCB Acquired: 3/19/2018 15:22:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**24.70**	**1.226**	**.2621**	**.8205**	**.1076**	**50.20**
Stddev	13.65	.954	.3574	.5672	.0605	4.37
%RSD	55.27	77.80	136.4	69.14	56.26	8.711
#1	9.393	.2094	.5618	1.305	.0682	46.49
#2	35.62	2.102	.3579	.9594	.1772	55.02
#3	29.09	1.368	-.1334	.1967	.0772	49.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4306**	**.4890**	**-.7483**	**-3.818**	**4.749**	**54.61**
Stddev	.1821	.0776	.5167	1.557	6.206	24.59
%RSD	42.30	15.87	69.05	40.77	130.7	45.02
#1	.3195	.4910	-1.032	-2.563	-.3526	72.42
#2	.6408	.5656	-1.061	-5.560	2.942	64.85
#3	.3315	.4104	-.1519	-3.331	11.66	26.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 15:22:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.863**	**.2637**	**-2.824**	**.0604**	**1.871**	**-1.463**
Stddev	2.459	.2592	7.556	.1866	.375	1.146
%RSD	24.93	98.28	267.6	309.1	20.02	78.30
#1	9.458	.4765	-11.11	-.0351	2.065	-.1655
#2	7.631	-.0249	3.686	.2754	1.439	-2.335
#3	12.50	.3395	-1.048	-.0592	2.109	-1.889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.259**	**3.739**	**1.719**	**.0598**	**-26.81**	**.4674**
Stddev	1.124	1.868	.510	.2397	6.54	.3922
%RSD	89.33	49.96	29.69	400.7	24.38	83.91
#1	-.5673	2.680	2.222	.2067	-19.44	.8528
#2	-.6525	5.896	1.735	.1896	-31.89	.4809
#3	-2.556	2.642	1.201	-.2168	-29.12	.0687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 15:22:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.9946**	**.3716**	**.5467**	**-230.0**
Stddev	.1831	.1581	.6473	51.4
%RSD	18.40	42.54	118.4	22.36
#1	-.8563	.2533	1.172	-170.9
#2	-1.202	.5512	-.1203	-254.4
#3	-.9252	.3104	.5880	-264.8
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**4589.6**	**42731.**	**3121.3**
Stddev	1020.8	4352.	548.8
%RSD	22.241	10.185	17.582
#1	3501.1	39370.	3550.9
#2	5525.4	47648.	2503.1
#3	4742.2	41176.	3310.0

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 15:30:30 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49960.**	**56.11**	**.9597**	**309.2**	**5.614**	**27490.**
Stddev	566.	.50	.2660	1.5	.104	181.
%RSD	1.132	.8911	27.72	.4924	1.859	.6598
#1	49470.	55.78	.6547	308.3	5.531	27330.
#2	49820.	56.69	1.081	308.4	5.731	27460.
#3	50580.	55.86	1.143	311.0	5.580	27690.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.096**	**40.92**	**142.3**	**94.00**	**61330.**	**6648.**
Stddev	.132	.46	.7	.62	357.	65.
%RSD	6.304	1.122	.5019	.6561	.5813	.9829
#1	2.224	40.45	141.8	93.29	61020.	6574.
#2	2.103	40.93	142.0	94.31	61250.	6698.
#3	1.960	41.37	143.1	94.40	61720.	6673.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 15:30:30 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34890.**	**1115.**	**2028.**	**68.59**	**504.5**	**1.774**
Stddev	296.	7.	29.	1.25	6.6	1.705
%RSD	.8474	.6534	1.451	1.829	1.315	96.12
#1	34620.	1109.	2006.	67.27	497.0	.3016
#2	34840.	1113.	2017.	68.75	506.8	3.641
#3	35210.	1123.	2061.	69.77	509.7	1.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.090**	**.8658**	**152.2**	**414.7**	**10.78**	**.5186**
Stddev	1.629	.8063	2.8	7.6	.35	.2797
%RSD	32.00	93.13	1.819	1.826	3.283	53.94
#1	6.932	1.550	149.0	406.1	10.38	.6541
#2	3.837	1.071	153.7	417.5	11.02	.7048
#3	4.502	-.0232	154.0	420.4	10.96	.1969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 15:30:30 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**27.50**	**158.4**	**753.8**	**1049.**
Stddev	.57	1.1	4.7	30.
%RSD	2.077	.6869	.6245	2.872
#1	27.20	157.4	749.6	1071.
#2	27.14	158.2	752.9	1015.
#3	28.16	159.5	758.9	1061.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2954.1**	**27036.**	**2439.5**
Stddev	3.9	37.	25.0
%RSD	.13052	.13737	1.0253
#1	2954.3	27051.	2459.9
#2	2950.2	27064.	2446.9
#3	2957.9	26994.	2411.6

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 15:41:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5671.**	**212.9**	**17.97**	**937.5**	**.6463**	**67270.**
Stddev	131.	.7	.48	4.2	.0371	424.
%RSD	2.304	.3065	2.653	.4487	5.734	.6302
#1	5820.	213.6	17.83	942.0	.6116	67740.
#2	5619.	212.3	18.50	936.8	.6421	66940.
#3	5575.	212.9	17.58	933.7	.6853	67110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.37**	**54.30**	**313.1**	**1498.**	**134300.**	**925.7**
Stddev	.25	.40	2.7	12.	1080.	24.4
%RSD	1.555	.7314	.8650	.7858	.8044	2.634
#1	16.29	54.40	316.1	1511.	135500.	931.5
#2	16.65	54.64	310.9	1494.	133700.	946.7
#3	16.16	53.86	312.2	1489.	133700.	898.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 15:41:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12070.**	**816.2**	**14050.**	**198.4**	**13710.**	**580.9**
Stddev	93.	5.2	287.	1.5	74.	2.9
%RSD	.7742	.6358	2.041	.7439	.5418	.4993
#1	12150.	822.2	14380.	199.4	13800.	584.2
#2	11970.	813.1	13940.	199.1	13690.	578.9
#3	12090.	813.4	13840.	196.7	13650.	579.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.438**	**1.558**	**38.34**	**1361.**	**567.3**	**107.6**
Stddev	1.131	.717	.85	5.	4.0	.8
%RSD	17.56	46.05	2.210	.3786	.7115	.7013
#1	6.881	.7586	37.41	1367.	563.2	106.7
#2	7.281	2.146	38.55	1360.	571.2	108.2
#3	5.153	1.769	39.06	1357.	567.3	107.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 15:41:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12020.**	**159.5**	**431.2**	**146.6**
Stddev	47.	3.5	2.8	26.2
%RSD	.3876	2.218	.6506	17.89
#1	12060.	163.6	434.5	147.1
#2	12030.	157.9	429.3	120.2
#3	11970.	157.1	429.9	172.6
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2770.1**	**25358.**	**2269.8**
Stddev	14.6	142.	40.7
%RSD	.52868	.56032	1.7945
#1	2782.8	25399.	2223.2
#2	2773.3	25475.	2298.7
#3	2754.1	25199.	2287.4

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 15:49:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**997.4**	**37.77**	**2.899**	**172.9**	**.1714**	**12190.**
Stddev	8.2	.85	.297	.3	.1879	28.
%RSD	.8218	2.248	10.25	.1643	109.6	.2269
#1	1006.	36.86	2.910	173.1	.2633	12170.
#2	995.6	38.55	2.597	172.9	.2957	12170.
#3	990.2	37.90	3.191	172.6	-.0448	12220.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.917**	**10.20**	**55.87**	**275.2**	**24960.**	**188.5**
Stddev	.040	.30	.56	.8	59.	16.6
%RSD	1.387	2.936	.9997	.2815	.2349	8.786
#1	2.913	10.13	55.69	274.5	25020.	178.4
#2	2.878	10.53	55.43	276.0	24930.	207.6
#3	2.959	9.941	56.50	275.0	24920.	179.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 15:49:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2232.**	**152.1**	**2511.**	**36.54**	**2628.**	**106.4**
Stddev	4.	.2	13.	.51	26.	1.8
%RSD	.1635	.1506	.4985	1.395	.9797	1.691
#1	2229.	152.0	2511.	35.96	2598.	104.7
#2	2236.	151.9	2523.	36.75	2645.	108.3
#3	2230.	152.3	2498.	36.91	2640.	106.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4764**	**.3105**	**7.368**	**256.0**	**100.6**	**18.64**
Stddev	.9410	.4459	.228	3.0	1.1	.67
%RSD	197.5	143.6	3.092	1.185	1.053	3.606
#1	-.6162	-.0833	7.625	252.5	99.44	18.09
#2	.5267	.7946	7.192	257.7	101.5	19.39
#3	-1.340	.2202	7.286	257.8	100.9	18.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 15:49:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **2280.**	**28.30**	**80.49**	**26.57**
Stddev	23.	.10	.22	19.71
%RSD	.9905	.3490	.2727	74.15
#1	2255.	28.42	80.25	45.39
#2	2298.	28.24	80.68	6.088
#3	2288.	28.25	80.54	28.24
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2787.1**	**25784.**	**2307.3**
Stddev	1.4	82.	2.0
%RSD	.04852	.31852	.08802
#1	2787.7	25824.	2309.3
#2	2788.0	25838.	2307.3
#3	2785.5	25690.	2305.3

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 15:53:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6052.**	**304.6**	**20.68**	**1235.**	**2.317**	**72380.**
Stddev	94.	2.5	.59	17.	.056	919.
%RSD	1.560	.8086	2.866	1.360	2.414	1.270
#1	6019.	302.9	19.99	1225.	2.314	71620.
#2	5978.	303.5	21.03	1227.	2.263	72130.
#3	6158.	307.4	21.01	1255.	2.375	73400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.61**	**79.02**	**339.0**	**1607.**	**142700.**	**1755.**
Stddev	.25	1.10	4.1	13.	1716.	17.
%RSD	1.263	1.387	1.195	.8151	1.203	.9746
#1	19.61	78.26	336.2	1598.	141400.	1767.
#2	19.36	78.51	337.1	1600.	142100.	1735.
#3	19.86	80.27	343.6	1622.	144600.	1762.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 15:53:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13710.**	**885.3**	**15570.**	**232.3**	**14760.**	**564.2**
Stddev	153.	10.7	212.	2.6	182.	10.0
%RSD	1.115	1.207	1.359	1.130	1.235	1.770
#1	13600.	876.1	15500.	230.6	14630.	557.2
#2	13640.	882.8	15400.	231.0	14670.	559.7
#3	13880.	897.0	15810.	235.3	14960.	575.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**87.27**	**78.29**	**60.61**	**1474.**	**629.5**	**136.0**
Stddev	3.87	1.26	.47	17.	10.5	2.5
%RSD	4.436	1.608	.7834	1.154	1.673	1.832
#1	83.89	77.06	61.15	1463.	621.2	134.4
#2	86.42	78.24	60.25	1465.	625.9	134.6
#3	91.49	79.57	60.42	1493.	641.3	138.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 15:53:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12800.**	**189.6**	**478.4**	**143.9**
Stddev	140.	3.0	5.2	16.9
%RSD	1.092	1.575	1.088	11.72
#1	12710.	189.1	474.9	131.7
#2	12730.	187.0	475.8	136.9
#3	12960.	192.9	484.4	163.2
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2688.3**	**24548.**	**2186.6**
Stddev	4.3	219.	10.0
%RSD	.16040	.89328	.45619
#1	2683.5	24711.	2183.4
#2	2689.4	24635.	2197.8
#3	2691.9	24299.	2178.7

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 15:56:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7960.**	**2373.**	**73.13**	**3208.**	**56.81**	**89420.**
Stddev	236.	13.	.66	20.	1.21	874.
%RSD	2.965	.5684	.9011	.6207	2.138	.9776
#1	8225.	2364.	72.47	3193.	58.06	88770.
#2	7772.	2365.	73.79	3201.	55.63	89080.
#3	7883.	2388.	73.12	3231.	56.75	90410.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**73.30**	**631.3**	**545.6**	**1768.**	**134300.**	**22770.**
Stddev	.43	3.0	4.6	8.	1000.	690.
%RSD	.5885	.4814	.8472	.4290	.7443	3.029
#1	72.89	628.9	543.9	1765.	133600.	23560.
#2	73.26	630.4	542.1	1762.	133900.	22270.
#3	73.75	634.7	550.9	1776.	135400.	22480.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 15:56:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33690.**	**1363.**	**36340.**	**758.9**	**14210.**	**1119.**
Stddev	292.	10.	1010.	5.5	101.	9.
%RSD	.8656	.7506	2.779	.7311	.7092	.7852
#1	33580.	1357.	37510.	754.2	14140.	1115.
#2	33470.	1358.	35680.	757.4	14180.	1113.
#3	34020.	1375.	35840.	765.0	14330.	1129.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2202.**	**2358.**	**605.1**	**1946.**	**1127.**	**681.5**
Stddev	10.	11.	4.8	14.	5.	4.7
%RSD	.4534	.4808	.7924	.7015	.4119	.6967
#1	2194.	2345.	602.7	1934.	1126.	678.0
#2	2199.	2364.	601.9	1942.	1123.	679.7
#3	2213.	2365.	610.6	1961.	1133.	686.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 15:56:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12630.**	**714.7**	**998.8**	**148.5**
Stddev	89.	21.7	6.9	40.5
%RSD	.7070	3.042	.6907	27.29
#1	12550.	739.7	995.0	188.2
#2	12620.	700.2	994.7	150.1
#3	12730.	704.2	1007.	107.2
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2642.8**	**24259.**	**2163.8**
Stddev	7.1	228.	32.3
%RSD	.26726	.94080	1.4929
#1	2650.9	24515.	2135.8
#2	2638.0	24187.	2199.2
#3	2639.4	24076.	2156.4

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 16:00:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.73**	**-.6532**	**-.1220**	**.0968**	**.0070**	**-2.696**
Stddev	30.89	2.412	.3655	.0459	.2243	3.119
%RSD	242.6	369.3	299.5	47.44	3214.	115.7
#1	.8036	1.905	.1075	.0632	-.2073	-.9052
#2	47.81	-.9787	.0699	.1491	.2401	-.8853
#3	-10.42	-2.886	-.5435	.0780	-.0119	-6.298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0220**	**.2193**	**-.7121**	**-.0562**	**14.12**	**33.68**
Stddev	.0176	.2016	.9027	.2757	.91	20.81
%RSD	80.02	91.90	126.8	491.0	6.415	61.78
#1	-.0219	.4342	.0272	.2233	15.07	57.70
#2	-.0398	.1894	-1.718	-.3279	13.26	22.28
#3	-.0045	.0344	-.4453	-.0639	14.05	21.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 16:00:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.564**	**-.0215**	**-17.01**	**-.2041**	**-.0851**	**1.801**
Stddev	6.628	.0862	18.42	.3018	1.726	1.693
%RSD	186.0	400.1	108.3	147.9	2029.	93.96
#1	10.22	-.1062	3.344	-.3543	.0792	3.607
#2	3.505	-.0245	-21.84	.1434	-1.887	.2515
#3	-3.035	.0661	-32.54	-.4013	1.553	1.545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8881**	**-1.014**	**.6308**	**.2424**	**-26.89**	**-.6482**
Stddev	2.531	.778	.7005	.2064	.41	.0720
%RSD	285.0	76.71	111.1	85.17	1.539	11.12
#1	.5707	-1.286	.8884	.1203	-26.91	-.7303
#2	3.562	-1.620	1.166	.1262	-26.47	-.6187
#3	-1.469	-.1368	-.1620	.4808	-27.29	-.5956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 16:00:36 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3684**	**.0154**	**-.1146**	**-210.8**
Stddev	.5588	.0955	.0602	18.2
%RSD	151.7	618.4	52.49	8.652
#1	.9206	.1253	-.0458	-224.5
#2	-.1968	-.0483	-.1408	-217.8
#3	.3815	-.0307	-.1572	-190.1
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2763.9**	**25359.**	**2261.7**
Stddev	26.2	194.	18.7
%RSD	.94623	.76578	.82676
#1	2744.5	25383.	2253.6
#2	2753.6	25540.	2283.0
#3	2793.6	25154.	2248.3

Sample Name: CCV Acquired: 3/19/2018 16:08:23 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**125300.**	**2526.**	**1264.**	**10290.**	**1004.**	**126700.**
Stddev	439.	10.	6.	25.	2.	490.
%RSD	.3508	.4090	.4729	.2426	.2060	.3872
#1	124800.	2514.	1257.	10290.	1002.	126200.
#2	125300.	2532.	1264.	10270.	1002.	126600.
#3	125700.	2532.	1269.	10320.	1006.	127200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1287.**	**2571.**	**5149.**	**12860.**	**102900.**	**49640.**
Stddev	3.	6.	22.	32.	405.	239.
%RSD	.2403	.2341	.4322	.2461	.3933	.4803
#1	1287.	2567.	5123.	12820.	102400.	49420.
#2	1284.	2568.	5157.	12870.	103000.	49620.
#3	1290.	2578.	5165.	12880.	103200.	49890.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 16:08:23 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127100.**	**5121.**	**125300.**	**2575.**	**7752.**	**1017.**
Stddev	251.	18.	381.	5.	22.	5.
%RSD	.1975	.3541	.3039	.2085	.2781	.4667
#1	126900.	5102.	124900.	2575.	7758.	1020.
#2	127200.	5122.	125300.	2570.	7728.	1012.
#3	127400.	5138.	125700.	2580.	7771.	1020.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2561.**	**2579.**	**2555.**	**2594.**	**1031.**	**2558.**
Stddev	5.	12.	9.	11.	1.	5.
%RSD	.1966	.4793	.3414	.4300	.1423	.1906
#1	2562.	2565.	2545.	2592.	1033.	2557.
#2	2566.	2589.	2556.	2584.	1030.	2554.
#3	2556.	2582.	2562.	2606.	1031.	2563.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 16:08:23 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1029.**	**5072.**	**10370.**	**10150.**
Stddev	5.	14.	28.	53.
%RSD	.5163	.2832	.2697	.5175
#1	1025.	5059.	10340.	10200.
#2	1027.	5069.	10370.	10100.
#3	1035.	5087.	10390.	10140.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2536.8**	**23283.**	**2179.7**
Stddev	20.9	85.	25.1
%RSD	.82299	.36712	1.1532
#1	2550.4	23317.	2207.5
#2	2547.2	23346.	2172.9
#3	2512.8	23185.	2158.6

Sample Name: CCB Acquired: 3/19/2018 16:12:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.014**	**-.7063**	**.0364**	**.1485**	**.1064**	**1.466**
Stddev	8.676	.7120	.3667	.0434	.0885	7.964
%RSD	108.3	100.8	1008.	29.20	83.18	543.2
#1	10.80	-1.526	-.3745	.1269	.0306	7.128
#2	-1.712	-.3528	.3303	.1984	.0849	-7.641
#3	14.96	-.2403	.1533	.1201	.2036	4.911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0994**	**.4528**	**-.3788**	**.1859**	**25.37**	**-1.469**
Stddev	.0416	.1550	.1071	.7129	11.63	60.55
%RSD	41.92	34.22	28.26	383.5	45.85	4121.
#1	-.1465	.4493	-.2552	.2105	16.21	16.53
#2	-.0675	.6094	-.4412	-.5390	21.45	-68.98
#3	-.0841	.2996	-.4401	.8861	38.46	48.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 16:12:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.22**	**.2640**	**15.73**	**-.3009**	**1.255**	**.4986**
Stddev	6.27	.2252	17.08	.3046	.833	1.378
%RSD	55.85	85.30	108.6	101.2	66.34	276.4
#1	4.010	.1558	29.33	-.3498	.2994	.6024
#2	14.32	.1133	21.31	-.5781	1.643	1.822
#3	15.34	.5228	-3.444	.0251	1.823	-.9286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6692**	**.0314**	**.7561**	**.0351**	**2.186**	**-.1236**
Stddev	1.703	1.370	.3953	.1268	1.895	.4029
%RSD	254.5	4359.	52.28	361.8	86.67	326.0
#1	.5262	-1.297	.4813	.0301	3.737	.3237
#2	.0857	-.0479	.5779	.1643	2.747	-.4580
#3	-2.619	1.439	1.209	-.0892	.0742	-.2365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 16:12:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.2449**	**.1653**	**1.021**	**3.810**
Stddev	1.750	.0262	.377	29.61
%RSD	714.5	15.87	36.97	777.1
#1	-1.523	.1930	1.140	23.64
#2	1.749	.1620	.5982	18.02
#3	-.9609	.1408	1.324	-30.22
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2731.5**	**24745.**	**2225.1**
Stddev	95.4	86.	34.0
%RSD	3.4920	.34901	1.5277
#1	2679.1	24717.	2237.3
#2	2673.7	24675.	2186.6
#3	2841.6	24841.	2251.2

Sample Name: 460-151978-C-3-D DU Acquired: 3/19/2018 16:53:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**146.0**	**2.948**	**.2957**	**173.3**	**.0364**	**20460.**
Stddev	15.5	3.216	.4537	2.1	.1627	47.
%RSD	10.59	109.1	153.4	1.230	447.0	.2310
#1	161.6	3.047	-.1855	175.5	.1153	20440.
#2	145.9	-.3168	.3569	173.3	-.1507	20430.
#3	130.6	6.113	.7157	171.2	.1446	20510.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.17**	**1.199**	**.4093**	**2.866**	**863.1**	**5069.**
Stddev	.05	.194	.7377	.217	12.6	28.
%RSD	.5257	16.21	180.2	7.570	1.457	.5550
#1	10.13	1.256	-.3817	2.706	870.4	5043.
#2	10.23	1.358	1.079	2.778	848.6	5064.
#3	10.14	.9824	.5310	3.113	870.4	5099.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-D DU Acquired: 3/19/2018 16:53:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1462.**	**83.12**	F **300200.**	**6.852**	**9.382**	**3.329**
Stddev	22.	1.04	4299.	.136	1.454	.992
%RSD	1.486	1.246	1.432	1.987	15.50	29.79
#1	1449.	82.36	304600.	6.889	9.048	2.262
#2	1450.	82.69	300100.	6.967	8.123	3.502
#3	1487.	84.30	296000.	6.702	10.97	4.224
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.610**	**-.6323**	**2.114**	**2025.**	**367.3**	**25.47**
Stddev	3.613	1.609	.510	24.	2.4	.26
%RSD	138.5	254.5	24.14	1.179	.6405	1.040
#1	6.739	.8052	2.269	2048.	368.9	25.47
#2	1.062	-.3311	1.545	2028.	368.5	25.21
#3	.0282	-2.371	2.530	2000.	364.6	25.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-D DU Acquired: 3/19/2018 16:53:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.202**	**111.9**	**1.672**	**434.7**
Stddev	.393	.8	.230	36.7
%RSD	32.73	.6849	13.77	8.438
#1	1.323	112.4	1.931	464.4
#2	1.520	111.0	1.596	393.7
#3	.7620	112.2	1.490	446.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2646.5**	**23535.**	**2218.0**
Stddev	31.9	107.	13.8
%RSD	1.2064	.45365	.62151
#1	2615.2	23616.	2202.6
#2	2645.3	23575.	2229.0
#3	2679.1	23414.	2222.5

Sample Name: 460-151978-C-3-E MS Acquired: 3/19/2018 17:05:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1146.**	**980.8**	**98.94**	**2180.**	**203.5**	**24060.**
Stddev	15.	22.1	.99	53.	2.1	225.
%RSD	1.295	2.253	1.005	2.446	1.044	.9333
#1	1131.	1005.	99.93	2240.	202.6	24010.
#2	1161.	974.4	97.94	2161.	202.0	23860.
#3	1148.	962.6	98.94	2138.	206.0	24300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**216.9**	**205.9**	**1078.**	**206.9**	**1048.**	**8981.**
Stddev	5.2	5.9	11.	.4	14.	87.
%RSD	2.412	2.862	1.058	.2096	1.341	.9645
#1	222.8	212.6	1073.	206.5	1032.	8900.
#2	215.1	203.8	1069.	206.9	1052.	8972.
#3	212.8	201.3	1091.	207.4	1059.	9072.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-E MS Acquired: 3/19/2018 17:05:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5490.**	**284.2**	F **292800.**	**213.5**	**1018.**	**200.9**
Stddev	66.	3.5	1646.	4.5	22.	5.5
%RSD	1.196	1.240	.5621	2.095	2.203	2.760
#1	5506.	283.4	293500.	218.4	1044.	207.2
#2	5418.	281.1	290900.	212.4	1009.	196.8
#3	5547.	288.1	293900.	209.7	1002.	198.6
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**207.1**	**191.7**	**109.6**	**2170.**	**573.1**	**237.9**
Stddev	5.1	4.4	1.0	52.	15.6	6.3
%RSD	2.484	2.303	.9294	2.378	2.717	2.648
#1	212.9	196.5	108.5	2229.	591.0	245.1
#2	205.6	190.8	110.0	2151.	565.3	235.0
#3	203.0	187.8	110.4	2131.	562.9	233.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-E MS Acquired: 3/19/2018 17:05:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**209.3**	**300.2**	**221.0**	**450.3**
Stddev	5.5	2.6	1.8	41.5
%RSD	2.613	.8573	.7972	9.206
#1	215.6	299.5	221.8	496.4
#2	205.8	298.0	218.9	438.4
#3	206.5	303.0	222.2	416.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2702.3**	**23917.**	**2271.7**
Stddev	55.7	319.	45.9
%RSD	2.0598	1.3318	2.0199
#1	2638.8	24027.	2324.5
#2	2725.8	24165.	2241.9
#3	2742.5	23558.	2248.7

Sample Name: 460-151978-C-3-C@5 Acquired: 3/19/2018 16:57:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**136.1**	**2.191**	**-.7108**	**173.2**	**-.0467**	**20920.**
Stddev	7.1	.972	.7014	.2	.0472	54.
%RSD	5.195	44.37	98.67	.1124	101.0	.2572
#1	137.5	3.217	.0957	173.2	-.0238	20930.
#2	128.5	2.071	-1.178	173.1	-.0154	20860.
#3	142.4	1.284	-1.051	173.5	-.1009	20970.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.16**	**1.419**	**.8870**	**3.373**	**902.8**	**5164.**
Stddev	.07	.127	.5648	.728	6.9	24.
%RSD	.7271	8.941	63.67	21.59	.7636	.4645
#1	10.12	1.400	1.526	4.047	908.1	5142.
#2	10.11	1.302	.6826	2.600	905.3	5161.
#3	10.25	1.554	.4529	3.471	895.0	5189.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-C@5 Acquired: 3/19/2018 16:57:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1544.**	**86.23**	F **298300.**	**7.024**	**7.534**	**4.063**
Stddev	13.	.79	2059.	.277	1.387	.722
%RSD	.8518	.9120	.6901	3.942	18.41	17.76
#1	1531.	85.46	300600.	6.887	6.737	4.639
#2	1543.	86.20	296500.	7.342	9.136	3.254
#3	1557.	87.03	297800.	6.842	6.730	4.297
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1141**	**-.6855**	**2.934**	**2027.**	**373.4**	**25.65**
Stddev	3.175	.7283	.875	7.	3.7	.42
%RSD	2783.	106.3	29.83	.3542	.9932	1.636
#1	-3.365	.1177	2.809	2030.	370.6	25.74
#2	.8519	-.8710	3.866	2032.	372.1	25.20
#3	2.855	-1.303	2.128	2019.	377.6	26.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-3-C@5 Acquired: 3/19/2018 16:57:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7589**	**113.0**	**1.621**	**472.5**
Stddev	.6426	.3	.052	27.2
%RSD	84.68	.2308	3.188	5.765
#1	.0890	113.0	1.600	501.9
#2	.8174	112.7	1.582	448.0
#3	1.370	113.2	1.680	467.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2665.0**	**23208.**	**2213.9**
Stddev	32.0	253.	50.6
%RSD	1.1993	1.0887	2.2869
#1	2639.7	22989.	2168.3
#2	2654.4	23149.	2205.1
#3	2700.9	23484.	2268.4

Sample Name: sd 460-151978-C-3-C Acquired: 3/19/2018 17:01:12 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**27.31**	**.6009**	**.7049**	**33.21**	**-.0003**	**3970.**
Stddev	7.04	1.698	.1532	.81	.0442	34.
%RSD	25.76	282.5	21.73	2.450	16990.	.8492
#1	35.43	.3178	.6426	33.82	-.0283	4003.
#2	23.00	2.422	.8794	32.28	-.0231	3972.
#3	23.51	-.9373	.5926	33.52	.0506	3936.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.962**	**.2485**	**-.2413**	**.9078**	**177.0**	**997.0**
Stddev	.066	.1930	.2083	.5786	9.7	44.0
%RSD	3.356	77.66	86.33	63.73	5.496	4.410
#1	2.018	.0317	-.2835	.5069	183.5	1023.
#2	1.979	.3122	-.0151	.6454	181.6	1022.
#3	1.890	.4015	-.4253	1.571	165.8	946.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151978-C-3-C Acquired: 3/19/2018 17:01:12 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**304.2**	**16.23**	**54900.**	**1.427**	**2.779**	**.3787**
Stddev	7.6	.07	397.	.282	1.384	2.444
%RSD	2.487	.4584	.7234	19.81	49.79	645.3
#1	305.6	16.30	55330.	1.133	4.066	1.405
#2	310.9	16.15	54550.	1.697	1.316	-2.411
#3	296.0	16.23	54820.	1.450	2.954	2.143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.7022**	**.2168**	**1.080**	**398.2**	**69.15**	**4.447**
Stddev	2.292	.1805	.441	11.2	2.85	.272
%RSD	326.4	83.26	40.82	2.803	4.127	6.117
#1	-1.622	.1635	.7937	411.0	72.43	4.751
#2	.7682	.0690	1.587	391.7	67.77	4.364
#3	2.961	.4180	.8583	391.8	67.26	4.227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151978-C-3-C Acquired: 3/19/2018 17:01:12 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0804**	**21.06**	**.2961**	**52.56**
Stddev	.7907	.12	.1815	23.41
%RSD	983.6	.5507	61.29	44.54
#1	.9893	21.19	.1629	44.52
#2	-.4491	21.01	.5028	78.94
#3	-.2990	20.98	.2226	34.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2696.6**	**23948.**	**2200.8**
Stddev	76.1	204.	28.0
%RSD	2.8233	.85376	1.2740
#1	2624.7	23767.	2199.3
#2	2776.4	23908.	2229.5
#3	2688.8	24170.	2173.5

Sample Name: pds 460-151978-C-3-C Acquired: 3/19/2018 17:08:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2094.**	**1876.**	**48.43**	**2093.**	**48.78**	**40080.**
Stddev	14.	51.	.12	42.	.49	928.
%RSD	.6496	2.712	.2451	2.016	1.011	2.315
#1	2083.	1935.	48.57	2142.	48.83	39100.
#2	2109.	1850.	48.38	2072.	49.25	40170.
#3	2090.	1844.	48.35	2066.	48.27	40950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**58.94**	**490.4**	**207.0**	**247.5**	**1892.**	**23530.**
Stddev	1.17	13.8	1.7	4.5	32.	173.
%RSD	1.989	2.821	.8010	1.822	1.677	.7357
#1	60.28	506.4	208.5	252.2	1855.	23340.
#2	58.07	482.5	207.4	247.2	1906.	23660.
#3	58.48	482.5	205.2	243.2	1913.	23590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151978-C-3-C Acquired: 3/19/2018 17:08:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20180.**	**568.1**	F **310300.**	**487.7**	**482.3**	**459.1**
Stddev	173.	1.2	12310.	12.0	11.4	12.1
%RSD	.8558	.2160	3.967	2.458	2.369	2.641
#1	20350.	566.7	297800.	501.5	495.5	473.1
#2	20170.	568.7	310700.	479.4	475.6	452.0
#3	20010.	568.8	322400.	482.3	475.8	452.1
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1950.**	**1968.**	**515.8**	**2550.**	**871.7**	**528.9**
Stddev	57.	62.	5.2	59.	11.9	12.1
%RSD	2.904	3.131	.9991	2.323	1.365	2.291
#1	2015.	2039.	517.8	2503.	881.2	542.9
#2	1920.	1934.	519.6	2531.	858.4	521.1
#3	1915.	1931.	509.9	2617.	875.5	522.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151978-C-3-C Acquired: 3/19/2018 17:08:58 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**498.6**	**573.3**	**501.7**	**519.8**
Stddev	17.0	2.2	5.4	34.8
%RSD	3.399	.3810	1.074	6.685
#1	518.1	570.9	506.0	488.1
#2	489.9	575.2	503.6	514.4
#3	487.7	573.8	495.7	557.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2622.3**	**23171.**	**2194.5**
Stddev	26.7	241.	38.0
%RSD	1.0182	1.0390	1.7327
#1	2591.8	23436.	2238.4
#2	2641.4	23109.	2173.3
#3	2633.8	22967.	2171.7

Sample Name: 460-151978-C-4-C@5 Acquired: 3/19/2018 17:12:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**80.76**	**-.9093**	**.3716**	**29.67**	**.0202**	**4638.**
Stddev	15.19	1.915	.1354	.62	.1290	34.
%RSD	18.81	210.6	36.43	2.081	638.9	.7375
#1	95.46	-2.731	.2914	30.35	-.0598	4604.
#2	65.13	1.086	.5279	29.15	-.0486	4637.
#3	81.70	-1.083	.2956	29.51	.1690	4672.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1266**	**3.096**	**-.5138**	**3.201**	**45.14**	**924.8**
Stddev	.0497	.336	.3193	.166	22.36	66.9
%RSD	39.25	10.86	62.15	5.182	49.52	7.233
#1	.1215	2.805	-.8810	3.010	23.94	854.0
#2	.0797	3.464	-.3008	3.287	42.99	987.0
#3	.1787	3.018	-.3597	3.307	68.50	933.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-4-C@5 Acquired: 3/19/2018 17:12:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1407.**	**100.5**	F **263100.**	**4.529**	**3.000**	**1.718**
Stddev	11.	.4	2240.	.188	1.185	1.694
%RSD	.7628	.4417	.8513	4.139	39.49	98.58
#1	1414.	100.7	265300.	4.730	2.907	3.555
#2	1411.	100.8	260800.	4.499	4.228	.2173
#3	1394.	99.95	263300.	4.359	1.864	1.382
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4972**	**-1.255**	**.3224**	**72.67**	**21.56**	**-.6337**
Stddev	3.218	.527	1.007	1.39	1.56	.2105
%RSD	647.1	41.97	312.3	1.912	7.227	33.22
#1	4.196	-.7324	-.7740	74.22	23.35	-.5093
#2	-1.651	-1.248	1.206	71.54	20.87	-.5150
#3	-1.054	-1.786	.5354	72.24	20.48	-.8767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-4-C@5 Acquired: 3/19/2018 17:12:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3657**	**25.72**	**1.113**	**609.9**
Stddev	.7630	.27	.187	26.7
%RSD	208.6	1.063	16.80	4.377
#1	1.103	25.94	1.258	629.3
#2	-.4209	25.42	1.180	620.8
#3	.4154	25.82	.9021	579.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2676.2**	**23870.**	**2195.5**
Stddev	38.5	332.	74.3
%RSD	1.4395	1.3921	3.3820
#1	2642.7	24168.	2126.0
#2	2718.3	23930.	2273.7
#3	2667.7	23512.	2186.8

Sample Name: 460-151978-D-5-D@5 Acquired: 3/19/2018 17:16:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**171.9**	**.0680**	**.2238**	**29.83**	**.2117**	**7245.**
Stddev	13.5	.2134	.1670	1.00	.0997	327.
%RSD	7.857	313.7	74.63	3.338	47.09	4.506
#1	175.0	.3140	.1455	29.06	.2302	6903.
#2	183.7	-.0686	.4156	29.47	.3008	7280.
#3	157.2	-.0413	.1103	30.95	.1040	7553.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1296**	**.3284**	**-.3970**	**2.676**	**257.8**	**943.3**
Stddev	.0862	.4419	.4037	.729	14.5	50.2
%RSD	66.53	134.6	101.7	27.25	5.610	5.321
#1	.2240	.4357	-.8496	1.922	249.3	885.5
#2	.1098	-.1573	-.2672	2.728	249.6	975.7
#3	.0550	.7068	-.0741	3.377	274.5	968.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-D-5-D@5 Acquired: 3/19/2018 17:16:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1014.**	**13.15**	F **283300.**	**.7271**	**21.51**	**1.155**
Stddev	64.	.95	10550.	.4853	.09	.908
%RSD	6.351	7.196	3.723	66.75	.4218	78.61
#1	948.9	12.19	272800.	.3875	21.61	1.542
#2	1017.	13.18	283200.	.5107	21.43	.1176
#3	1078.	14.09	293900.	1.283	21.50	1.805
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3989**	**.1793**	**1.062**	**14.11**	**32.25**	**-.5856**
Stddev	4.458	1.124	.980	.61	.80	.1482
%RSD	1117.	626.9	92.26	4.316	2.465	25.31
#1	3.693	-1.021	2.191	13.69	31.34	-.4156
#2	2.177	.3522	.4345	13.83	32.77	-.6534
#3	-4.673	1.207	.5606	14.81	32.66	-.6878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-D-5-D@5 Acquired: 3/19/2018 17:16:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1750**	**44.73**	**4.347**	**441.1**
Stddev	.7130	2.10	.340	36.5
%RSD	407.5	4.694	7.813	8.266
#1	-.6082	42.54	3.971	430.9
#2	.3466	44.92	4.439	410.8
#3	.7865	46.72	4.632	481.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2657.4**	**23380.**	**2144.7**
Stddev	52.3	121.	20.1
%RSD	1.9685	.51933	.93849
#1	2614.2	23399.	2123.0
#2	2715.6	23490.	2162.8
#3	2642.3	23250.	2148.2

Sample Name: 460-151978-C-6-C@5 Acquired: 3/19/2018 17:20:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**620.5**	**-.6127**	**.0615**	**21.02**	**.5485**	**198800.**
Stddev	2.3	3.246	.5535	.32	.0752	418.
%RSD	.3668	529.9	899.4	1.502	13.71	.2103
#1	622.3	-2.596	.4732	21.39	.6319	199100.
#2	617.9	-2.376	.2792	20.86	.4858	199000.
#3	621.2	3.134	-.5677	20.82	.5278	198300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1760**	**3.419**	**4.561**	**5.536**	**95.66**	**1737.**
Stddev	.1468	.123	.529	.654	14.44	35.
%RSD	83.42	3.590	11.60	11.82	15.09	2.024
#1	.1427	3.342	5.076	4.893	101.8	1773.
#2	.0487	3.560	4.587	5.514	106.0	1735.
#3	.3366	3.353	4.019	6.200	79.16	1702.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-6-C@5 Acquired: 3/19/2018 17:20:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3516.**	**159.3**	F **285500.**	**4.660**	**4.813**	**1.140**
Stddev	46.	2.0	3589.	.374	.785	1.199
%RSD	1.305	1.261	1.257	8.023	16.32	105.1
#1	3465.	157.0	288700.	4.631	4.557	-.1248
#2	3553.	160.8	286100.	4.301	5.694	2.259
#3	3530.	160.1	281600.	5.047	4.187	1.287
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.863**	**-1.039**	**12.49**	**115.1**	**12.15**	**-1.084**
Stddev	1.851	.930	.86	.1	.61	.100
%RSD	47.91	89.52	6.859	.0797	5.008	9.172
#1	1.776	-.1500	12.60	115.1	12.85	-.9819
#2	5.306	-2.005	13.29	115.2	11.76	-1.091
#3	4.508	-.9613	11.58	115.0	11.83	-1.180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-6-C@5 Acquired: 3/19/2018 17:20:43 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1149**	**596.3**	**2.467**	**972.5**
Stddev	1.044	6.8	.189	18.0
%RSD	908.7	1.144	7.646	1.853
#1	-.2035	601.3	2.498	988.4
#2	-1.112	599.0	2.638	976.1
#3	.9708	588.5	2.265	952.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2645.2**	**23240.**	**2169.1**
Stddev	33.5	153.	24.6
%RSD	1.2673	.65997	1.1337
#1	2607.3	23091.	2148.9
#2	2657.5	23229.	2161.9
#3	2670.9	23398.	2196.5

Sample Name: 460-151978-C-7-C@5 Acquired: 3/19/2018 17:24:41 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**485.2**	**3.633**	**.0274**	**19.79**	**.3842**	**188300.**
Stddev	43.3	2.462	.4780	.24	.1932	1422.
%RSD	8.931	67.76	1743.	1.193	50.29	.7552
#1	533.2	3.326	.5510	20.05	.5318	187800.
#2	448.9	6.234	-.3856	19.60	.1655	189900.
#3	473.6	1.339	-.0831	19.71	.4553	187200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4665**	**1.848**	**1.594**	**2.645**	**23.88**	**1672.**
Stddev	.1313	.249	.797	.266	21.50	21.
%RSD	28.13	13.47	50.00	10.05	90.03	1.262
#1	.4430	1.566	.7580	2.403	36.95	1652.
#2	.3486	2.039	2.345	2.930	-.9336	1671.
#3	.6080	1.938	1.679	2.603	35.61	1694.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-7-C@5 Acquired: 3/19/2018 17:24:41 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3189.**	**109.0**	F **278000.**	**3.257**	**4.213**	**-.1887**
Stddev	45.	1.4	1608.	.465	.770	1.439
%RSD	1.411	1.256	.5785	14.27	18.28	762.8
#1	3138.	107.5	276700.	3.502	3.990	1.473
#2	3217.	109.5	277500.	2.721	3.580	-1.040
#3	3214.	110.1	279800.	3.547	5.070	-.9993
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8207**	**.0458**	**3.364**	**26.51**	**13.81**	**-.5764**
Stddev	1.737	1.854	.609	.11	.12	.0728
%RSD	211.6	4047.	18.09	.4097	.8999	12.63
#1	1.386	-2.082	3.482	26.58	13.89	-.5858
#2	-1.128	.9070	3.906	26.56	13.67	-.4994
#3	2.205	1.312	2.706	26.38	13.88	-.6441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-7-C@5 Acquired: 3/19/2018 17:24:41 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.4452**	**396.5**	**2.390**	**1068.**
Stddev	.8244	3.5	.281	37.
%RSD	185.2	.8840	11.74	3.472
#1	-1.218	392.8	2.266	1052.
#2	.4229	396.9	2.712	1110.
#3	-.5410	399.7	2.194	1041.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2617.7**	**23272.**	**2158.5**
Stddev	23.1	177.	7.2
%RSD	.88089	.75902	.33191
#1	2599.8	23324.	2160.9
#2	2643.7	23075.	2164.3
#3	2609.5	23416.	2150.5

Sample Name: 460-151958-B-9-D@5 Acquired: 3/19/2018 17:44:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**63.10**	**.5184**	**.0314**	**72.81**	**.4680**	**6012.**
Stddev	9.65	.8772	.3250	2.60	.0421	275.
%RSD	15.30	169.2	1035.	3.569	8.994	4.573
#1	54.14	.3153	-.2290	71.33	.4206	5766.
#2	61.84	1.479	.3956	71.28	.4823	5960.
#3	73.32	-.2394	-.0725	75.81	.5010	6309.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.9518**	**1.644**	**-.4395**	**3.510**	**24.99**	**2814.**
Stddev	.0953	.247	.3665	.371	9.05	147.
%RSD	10.01	15.01	83.39	10.57	36.23	5.234
#1	.8455	1.889	-.1557	3.831	14.96	2647.
#2	1.030	1.647	-.8532	3.104	32.56	2873.
#3	.9802	1.395	-.3095	3.596	27.43	2923.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-9-D@5 Acquired: 3/19/2018 17:44:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3297.**	**104.9**	F **261400.**	**3.207**	**52.22**	**1.200**
Stddev	138.	4.5	9307.	.252	2.50	.503
%RSD	4.188	4.276	3.560	7.844	4.794	41.92
#1	3180.	101.0	255500.	3.114	49.37	.7861
#2	3262.	103.8	256700.	3.016	53.28	1.760
#3	3450.	109.8	272100.	3.492	54.03	1.054
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.391**	**-.2623**	**1.648**	**8.330**	**24.57**	**-.5508**
Stddev	.870	1.536	.207	.542	.81	.1322
%RSD	36.37	585.4	12.54	6.513	3.288	24.00
#1	2.755	.8663	1.506	7.990	24.03	-.4172
#2	1.399	.3578	1.885	8.044	24.18	-.5537
#3	3.020	-2.011	1.552	8.955	25.50	-.6815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-9-D@5 Acquired: 3/19/2018 17:44:19 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3007**	**48.67**	**.6350**	**1826.**
Stddev	.4975	2.19	.1565	134.
%RSD	165.4	4.498	24.64	7.309
#1	-.0915	47.41	.5719	1774.
#2	.8602	47.39	.5200	1726.
#3	.1334	51.19	.8132	1977.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2709.8**	**23771.**	**2205.5**
Stddev	57.1	137.	6.6
%RSD	2.1085	.57537	.30117
#1	2646.1	23877.	2204.9
#2	2756.5	23819.	2212.5
#3	2726.9	23617.	2199.2

Sample Name: 460-151958-B-8-F@5 Acquired: 3/19/2018 17:28:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**83.39**	**.8152**	**.3237**	**19.58**	**-.0896**	**13910.**
Stddev	7.88	1.489	.1029	.99	.2221	640.
%RSD	9.453	182.6	31.79	5.071	247.9	4.597
#1	77.75	.1923	.3997	18.44	.1355	13280.
#2	92.40	-.2609	.2066	20.09	-.3085	13890.
#3	80.02	2.514	.3649	20.22	-.0958	14560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2621**	**.3694**	**-.4845**	**2.531**	**55.94**	**1995.**
Stddev	.0892	.1165	1.020	.453	9.25	87.
%RSD	34.03	31.53	210.5	17.91	16.53	4.351
#1	.1743	.3011	-1.643	2.567	64.14	1895.
#2	.2592	.5040	-.0881	2.060	57.77	2050.
#3	.3526	.3033	.2778	2.964	45.92	2040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-8-F@5 Acquired: 3/19/2018 17:28:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3241.**	**64.05**	F **278800.**	**.1919**	**2.530**	**1.198**
Stddev	154.	2.67	14810.	.5857	.832	.604
%RSD	4.737	4.164	5.311	305.1	32.90	50.37
#1	3096.	61.40	263800.	.0354	2.793	1.082
#2	3226.	64.02	279300.	.8400	1.598	1.852
#3	3402.	66.73	293400.	-.2996	3.199	.6612
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.134**	**-.4644**	**1.508**	**10.80**	**23.50**	**-.8650**
Stddev	3.288	.4729	.587	.89	2.95	.2481
%RSD	289.8	101.8	38.96	8.262	12.54	28.68
#1	-3.368	-.9226	.9819	9.940	21.69	-.9827
#2	2.641	.0220	1.399	11.72	26.90	-.5799
#3	-2.676	-.4928	2.142	10.74	21.90	-1.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-8-F@5 Acquired: 3/19/2018 17:28:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0827**	**89.73**	**1.476**	**846.0**
Stddev	.6819	4.46	.242	34.2
%RSD	824.4	4.966	16.37	4.038
#1	.2494	85.06	1.541	806.6
#2	.3695	90.20	1.209	867.6
#3	-.8670	93.94	1.679	863.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2662.7**	**23770.**	**2218.9**
Stddev	46.7	155.	25.1
%RSD	1.7542	.65389	1.1331
#1	2699.5	23744.	2235.9
#2	2610.1	23937.	2230.8
#3	2678.5	23629.	2190.0

Sample Name: 460-151958-C-11-D@5 Acquired: 3/19/2018 17:56:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**179.4**	**1.288**	**-.0735**	**51.49**	**-.0441**	**44540.**
Stddev	13.5	1.177	.2023	1.62	.1464	127.
%RSD	7.540	91.42	275.2	3.146	332.2	.2842
#1	192.3	1.007	-.2045	53.15	-.1889	44400.
#2	180.6	2.580	-.1754	49.92	.1038	44600.
#3	165.3	.2762	.1595	51.40	-.0471	44630.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1652**	**1.031**	**-.1900**	**2.994**	**79.71**	**1034.**
Stddev	.1117	.171	.6487	.646	21.53	37.
%RSD	67.65	16.62	341.5	21.58	27.02	3.564
#1	.0388	.9625	-.5206	2.439	69.30	1012.
#2	.2509	.9043	-.6068	3.704	65.35	1013.
#3	.2058	1.226	.5575	2.840	104.5	1076.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-C-11-D@5 Acquired: 3/19/2018 17:56:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1523.**	**265.3**	F **277900.**	**1.939**	**21.36**	**-1.261**
Stddev	10.	.4	482.	.342	.99	1.099
%RSD	.6887	.1599	.1736	17.62	4.637	87.12
#1	1517.	264.9	277300.	2.077	22.37	-1.372
#2	1535.	265.2	278100.	2.190	21.31	-2.300
#3	1517.	265.7	278200.	1.550	20.39	-.1110
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4224**	**-.4261**	**1.365**	**35.01**	**23.98**	**-.7351**
Stddev	2.654	.6305	1.139	1.13	2.34	.1110
%RSD	628.2	148.0	83.44	3.233	9.754	15.10
#1	3.468	-.1118	.3354	36.30	26.56	-.8311
#2	-1.391	-.0144	1.171	34.22	23.37	-.7608
#3	-.8100	-1.152	2.588	34.50	22.01	-.6135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-C-11-D@5 Acquired: 3/19/2018 17:56:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.9849**	**113.0**	**3.578**	**659.7**
Stddev	.6224	.6	.262	29.8
%RSD	63.19	.5300	7.330	4.525
#1	1.695	112.3	3.277	660.1
#2	.5358	113.5	3.698	629.6
#3	.7235	113.1	3.758	689.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2663.9**	**23437.**	**2217.1**
Stddev	81.3	64.	27.9
%RSD	3.0516	.27366	1.2573
#1	2584.9	23509.	2248.8
#2	2747.3	23386.	2206.2
#3	2659.5	23416.	2196.3

Sample Name: 460-151958-D-12-C@5 Acquired: 3/19/2018 18:00:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**86.33**	**6.276**	**.0345**	**2.694**	**.0175**	**5924.**
Stddev	12.30	1.543	.3752	.149	.1260	31.
%RSD	14.25	24.59	1087.	5.514	719.6	.5201
#1	95.61	5.721	.4169	2.866	.0757	5894.
#2	72.37	5.086	-.3330	2.601	-.1270	5956.
#3	91.02	8.020	.0197	2.616	.1038	5921.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4088**	**.6242**	**15.83**	**6.389**	**320.3**	**1308.**
Stddev	.1440	.1029	.78	.335	9.6	14.
%RSD	35.23	16.48	4.947	5.238	2.992	1.047
#1	.2501	.5159	15.90	6.665	321.1	1300.
#2	.4451	.7207	16.57	6.017	310.3	1301.
#3	.5311	.6359	15.01	6.485	329.4	1324.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-12-C@5 Acquired: 3/19/2018 18:00:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1426.**	**69.10**	F **264500.**	**3.370**	**8.646**	**1.448**
Stddev	22.	.66	1321.	.185	1.308	1.113
%RSD	1.509	.9494	.4993	5.484	15.12	76.84
#1	1402.	68.36	265500.	3.228	9.802	2.112
#2	1433.	69.61	265000.	3.579	7.227	2.070
#3	1444.	69.33	263000.	3.302	8.908	.1636
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.345**	**-.8998**	**2.903**	**50.29**	**17.52**	**-.2552**
Stddev	2.601	.8607	.608	.81	.97	.0832
%RSD	193.4	95.65	20.93	1.612	5.541	32.61
#1	3.743	-1.572	2.583	51.20	18.54	-.3507
#2	1.713	-1.198	2.523	50.05	17.40	-.1987
#3	-1.420	.0702	3.604	49.63	16.61	-.2160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-12-C@5 Acquired: 3/19/2018 18:00:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.137**	**29.10**	**.7632**	**908.9**
Stddev	1.147	.06	.2131	56.3
%RSD	100.9	.2069	27.92	6.193
#1	2.433	29.17	.9311	973.8
#2	.7247	29.08	.5234	879.8
#3	.2530	29.06	.8350	873.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2726.3**	**23783.**	**2225.0**
Stddev	93.6	96.	27.0
%RSD	3.4317	.40206	1.2138
#1	2620.6	23893.	2254.6
#2	2759.7	23719.	2218.7
#3	2798.5	23737.	2201.7

Sample Name: CCV Acquired: 3/19/2018 17:32:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123400.**	**2437.**	**1212.**	**9984.**	**998.6**	**122500.**
Stddev	696.	10.	3.	23.	6.7	661.
%RSD	.5644	.4116	.2148	.2311	.6728	.5395
#1	124100.	2447.	1215.	9995.	1006.	123200.
#2	122700.	2427.	1211.	10000.	992.6	122600.
#3	123300.	2435.	1211.	9958.	997.4	121800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1244.**	**2463.**	**4976.**	**12240.**	**99130.**	**49270.**
Stddev	4.	8.	25.	56.	502.	193.
%RSD	.3478	.3137	.4997	.4543	.5059	.3912
#1	1246.	2471.	5004.	12280.	99690.	49410.
#2	1247.	2464.	4970.	12170.	99010.	49050.
#3	1239.	2456.	4955.	12250.	98710.	49360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 17:32:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**120600.**	**4963.**	**121400.**	**2500.**	**7502.**	**979.2**
Stddev	743.	20.	521.	4.	25.	3.1
%RSD	.6157	.4100	.4296	.1597	.3293	.3138
#1	121500.	4986.	121900.	2502.	7514.	975.6
#2	120400.	4956.	120900.	2503.	7518.	980.6
#3	120000.	4947.	121200.	2495.	7473.	981.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2460.**	**2494.**	**2459.**	**2510.**	**992.5**	**2490.**
Stddev	5.	18.	9.	23.	.5	5.
%RSD	.1923	.7405	.3621	.8993	.0492	.2003
#1	2461.	2507.	2469.	2524.	992.6	2490.
#2	2455.	2501.	2456.	2522.	991.9	2495.
#3	2465.	2473.	2452.	2484.	992.9	2485.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 17:32:41 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**992.6**	**4958.**	**9910.**	**9473.**
Stddev	8.4	32.	41.	116.
%RSD	.8452	.6438	.4117	1.228
#1	999.8	4991.	9957.	9483.
#2	994.6	4927.	9883.	9584.
#3	983.4	4957.	9889.	9352.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2587.2**	**23637.**	**2097.9**
Stddev	41.1	397.	12.9
%RSD	1.5871	1.6779	.61684
#1	2561.7	23311.	2083.2
#2	2565.3	23522.	2107.8
#3	2634.5	24079.	2102.5

Sample Name: 460-151958-D-16-C@5 Acquired: 3/19/2018 18:12:14 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**206.7**	**2.496**	**-.0011**	**56.03**	**.0643**	**13670.**
Stddev	15.4	1.470	.8571	1.47	.0980	62.
%RSD	7.465	58.89	79070.	2.629	152.4	.4500
#1	220.4	.8204	.3601	57.19	.1471	13740.
#2	209.7	3.569	.6163	54.37	.0896	13660.
#3	190.0	3.098	-.9796	56.53	-.0439	13620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.7559**	**1.062**	**.7722**	**5.742**	**163.4**	**3671.**
Stddev	.0744	.283	.7792	.606	18.9	9.
%RSD	9.848	26.67	100.9	10.56	11.56	.2474
#1	.6805	.8020	.0533	5.057	161.8	3681.
#2	.7576	1.019	1.600	6.208	183.0	3671.
#3	.8294	1.363	.6631	5.962	145.3	3663.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-16-C@5 Acquired: 3/19/2018 18:12:14 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2510.**	**308.5**	F **261800.**	**.4798**	**20.49**	**.6082**
Stddev	34.	2.2	2810.	.2070	.21	1.438
%RSD	1.366	.7245	1.073	43.14	1.011	236.4
#1	2484.	310.9	264900.	.3619	20.62	.8015
#2	2549.	308.2	259300.	.3588	20.25	1.940
#3	2497.	306.5	261300.	.7188	20.60	-.9165
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.767**	**.0488**	**1.706**	**114.0**	**53.13**	**-.4606**
Stddev	1.333	1.344	1.052	.9	.76	.1964
%RSD	75.45	2752.	61.68	.8123	1.423	42.64
#1	-.3106	1.483	1.420	114.5	53.70	-.3394
#2	-2.062	-1.181	2.872	112.9	52.28	-.6872
#3	-2.927	-.1561	.8267	114.5	53.42	-.3553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-16-C@5 Acquired: 3/19/2018 18:12:14 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.9454**	**54.14**	**3.844**	**318.3**
Stddev	.4389	.71	.133	44.2
%RSD	46.43	1.320	3.458	13.89
#1	-.6703	54.96	3.989	324.9
#2	-1.452	53.75	3.816	358.8
#3	-.7143	53.71	3.727	271.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2723.6**	**23832.**	**2194.5**
Stddev	59.6	74.	8.1
%RSD	2.1867	.31225	.36903
#1	2674.4	23914.	2200.2
#2	2789.8	23769.	2198.0
#3	2706.5	23812.	2185.2

Sample Name: 460-151958-D-17-C@5 Acquired: 3/19/2018 18:16:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**384.4**	**2.047**	**-.0240**	**35.14**	**.4266**	**177900.**
Stddev	19.1	3.008	.5781	.72	.1773	1190.
%RSD	4.975	147.0	2407.	2.054	41.55	.6687
#1	362.7	3.235	-.1655	35.61	.2416	179300.
#2	391.6	-1.374	-.5182	35.50	.4432	177400.
#3	398.8	4.279	.6117	34.31	.5950	177100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2536**	**.6303**	**.1714**	**.9151**	**18.71**	**1780.**
Stddev	.0693	.2251	.7017	.4436	15.58	92.
%RSD	27.34	35.71	409.4	48.47	83.28	5.145
#1	.2073	.4155	.2991	.6755	20.50	1728.
#2	.2202	.6109	.8004	1.427	2.313	1726.
#3	.3332	.8644	-.5854	.6429	33.32	1885.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-17-C@5 Acquired: 3/19/2018 18:16:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3493.**	**111.8**	F **267600.**	**3.183**	**12.09**	**1.733**
Stddev	52.	1.9	1099.	.363	.97	.925
%RSD	1.492	1.723	.4109	11.39	8.009	53.39
#1	3540.	113.0	268800.	3.483	10.98	1.894
#2	3502.	112.9	267200.	2.780	12.49	.7376
#3	3437.	109.6	266700.	3.286	12.79	2.567
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4930**	**-1.277**	**1.564**	**11.54**	**21.93**	**-1.102**
Stddev	2.046	1.045	.549	.19	2.09	.188
%RSD	415.0	81.82	35.14	1.607	9.508	17.05
#1	-2.694	-2.169	.9476	11.47	22.90	-1.275
#2	-.1363	-1.535	2.003	11.75	23.35	-.9022
#3	1.351	-.1275	1.741	11.39	19.54	-1.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-17-C@5 Acquired: 3/19/2018 18:16:11 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1020**	**271.4**	**2.630**	**1464.**
Stddev	1.057	1.1	.081	69.
%RSD	1036.	.4168	3.065	4.693
#1	-1.111	270.7	2.617	1434.
#2	.5897	272.7	2.716	1543.
#3	.8272	270.7	2.556	1415.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2635.4**	**23505.**	**2228.4**
Stddev	58.5	496.	58.3
%RSD	2.2193	2.1090	2.6168
#1	2601.4	22933.	2161.1
#2	2601.8	23795.	2261.3
#3	2702.9	23789.	2262.8

Sample Name: CCB Acquired: 3/19/2018 17:36:18 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.058**	**.4083**	**-.4108**	**.3811**	**-.0518**	**2.354**
Stddev	26.69	.9419	.2760	.1805	.1273	6.423
%RSD	378.2	230.7	67.18	47.35	245.8	272.8
#1	-7.372	.0306	-.1060	.3908	-.1327	-3.826
#2	-9.313	-.2861	-.6438	.5565	-.1176	1.893
#3	37.86	1.480	-.4825	.1960	.0949	8.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2613**	**.2551**	**-.8053**	**-.0784**	**4.032**	**54.83**
Stddev	.0822	.3411	.4262	.2344	5.012	53.48
%RSD	31.46	133.7	52.92	298.8	124.3	97.53
#1	-.3343	-.0331	-1.076	.1889	4.302	95.86
#2	-.2773	.6317	-.3140	-.1759	-1.110	74.29
#3	-.1723	.1667	-1.026	-.2484	8.904	-5.650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 17:36:18 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.602**	**.0461**	**81.20**	**-.4483**	**-.1182**	**.8197**
Stddev	6.710	.0500	28.35	.2698	1.236	1.996
%RSD	88.27	108.5	34.91	60.19	1046.	243.5
#1	3.341	.1037	109.2	-.2771	1.309	.2083
#2	15.34	.0140	81.84	-.7593	-.7944	3.050
#3	4.128	.0205	52.54	-.3085	-.8690	-.7989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0606**	**-.2349**	**.5986**	**-.2147**	**1.362**	**.0682**
Stddev	2.645	.8334	.6833	.1966	1.851	.3473
%RSD	4369.	354.7	114.2	91.58	135.9	509.5
#1	2.451	.5856	1.105	-.3344	1.717	.4614
#2	.5120	-1.081	-.1786	-.3220	3.010	-.1964
#3	-2.781	-.2097	.8694	.0122	-.6414	-.0605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 17:36:18 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1399**	**.1415**	**.5154**	**22.15**
Stddev	1.368	.0717	.3159	8.18
%RSD	977.8	50.64	61.29	36.94
#1	-.5726	.1696	.7374	12.71
#2	1.717	.0601	.1537	27.31
#3	-.7244	.1949	.6551	26.41
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2726.7**	**25000.**	**2213.8**
Stddev	36.8	210.	54.3
%RSD	1.3514	.84011	2.4533
#1	2706.1	25241.	2275.8
#2	2704.8	24902.	2174.6
#3	2769.2	24858.	2191.0

Sample Name: CCVL Acquired: 3/19/2018 17:40:20 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**224.6**	**12.44**	**9.572**	**213.4**	**2.073**	**5192.**
Stddev	10.1	.51	.352	5.2	.101	23.
%RSD	4.481	4.099	3.679	2.451	4.848	.4416
#1	215.0	11.85	9.978	216.2	2.189	5173.
#2	223.8	12.72	9.375	216.5	2.014	5187.
#3	235.1	12.76	9.363	207.3	2.016	5218.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.154**	**54.34**	**9.897**	**25.13**	**175.0**	**5020.**
Stddev	.149	1.30	.915	.60	13.0	90.
%RSD	3.577	2.398	9.251	2.406	7.421	1.791
#1	4.121	55.18	9.007	25.80	169.1	4946.
#2	4.316	55.01	9.848	24.62	189.9	5120.
#3	4.024	52.84	10.84	24.97	166.0	4993.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 17:40:20 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5311.**	**16.27**	**5046.**	**44.02**	**11.11**	**22.11**
Stddev	36.	.25	16.	1.26	1.26	.96
%RSD	.6782	1.553	.3122	2.864	11.32	4.338
#1	5276.	16.00	5056.	44.05	12.36	21.84
#2	5310.	16.31	5055.	45.27	11.13	23.18
#3	5348.	16.49	5028.	42.75	9.846	21.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**23.01**	**20.80**	**54.33**	**33.20**	F **27.84**	**21.57**
Stddev	2.20	1.76	.86	.81	.91	.55
%RSD	9.569	8.446	1.587	2.436	3.283	2.569
#1	20.48	22.47	53.36	33.23	28.19	21.49
#2	24.10	20.98	55.02	33.99	28.53	22.17
#3	24.46	18.97	54.61	32.37	26.80	21.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 17:40:20 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**55.02**	**20.10**	**22.19**	F **-217.3**
Stddev	2.07	.03	.17	20.0
%RSD	3.764	.1493	.7546	9.212
#1	55.93	20.09	22.00	-208.9
#2	56.48	20.07	22.29	-202.9
#3	52.65	20.13	22.28	-240.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2756.7**	**25088.**	**2218.4**
Stddev	73.4	30.	2.2
%RSD	2.6623	.12037	.09836
#1	2712.4	25058.	2216.0
#2	2716.3	25118.	2218.9
#3	2841.4	25089.	2220.3

Sample Name: CCVL Acquired: 3/19/2018 18:31:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**229.0**	**12.98**	**10.90**	**212.3**	**1.907**	**5228.**
Stddev	7.1	2.76	.65	5.7	.195	13.
%RSD	3.111	21.23	5.927	2.688	10.23	.2393
#1	223.1	14.70	11.40	217.7	1.743	5221.
#2	226.8	14.44	11.13	212.9	2.123	5221.
#3	236.9	9.803	10.17	206.3	1.855	5243.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.155**	**54.27**	**9.823**	**25.81**	**186.1**	**5114.**
Stddev	.102	1.84	.758	.38	17.5	35.
%RSD	2.451	3.393	7.717	1.486	9.430	.6764
#1	4.270	56.07	9.009	26.25	192.7	5088.
#2	4.120	54.35	9.951	25.53	166.2	5154.
#3	4.076	52.39	10.51	25.66	199.4	5101.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 18:31:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5365.**	**16.53**	**5099.**	**44.26**	**10.61**	**21.69**
Stddev	17.	.12	12.	1.11	1.60	.42
%RSD	.3087	.7110	.2275	2.511	15.04	1.950
#1	5355.	16.59	5089.	45.39	9.349	22.09
#2	5355.	16.39	5096.	44.23	10.07	21.25
#3	5384.	16.60	5112.	43.17	12.40	21.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.20**	**20.88**	**55.38**	**33.12**	F **26.99**	**21.60**
Stddev	2.09	.94	.13	1.12	2.46	.32
%RSD	10.34	4.507	.2353	3.382	9.115	1.474
#1	22.37	21.67	55.35	34.38	29.72	21.96
#2	20.01	21.14	55.27	32.73	24.96	21.34
#3	18.20	19.84	55.52	32.24	26.27	21.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 18:31:50 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**54.56**	**20.49**	**22.50**	F **-206.2**
Stddev	1.35	.06	.34	34.8
%RSD	2.479	.3088	1.499	16.85
#1	56.12	20.43	22.26	-171.5
#2	53.79	20.56	22.35	-241.0
#3	53.77	20.48	22.88	-206.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2788.4**	**24856.**	**2216.6**
Stddev	110.1	47.	9.7
%RSD	3.9476	.19020	.43882
#1	2701.6	24903.	2227.8
#2	2751.3	24856.	2211.7
#3	2912.2	24809.	2210.2

Sample Name: 460-151958-D-19-C@5 Acquired: 3/19/2018 18:35:50 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**76.06**	**-.4773**	**.2524**	**41.14**	**.1624**	**13250.**
Stddev	10.14	.8821	.4119	1.76	.1272	98.
%RSD	13.33	184.8	163.2	4.285	78.35	.7429
#1	85.00	.4885	.5933	42.06	.1059	13360.
#2	65.04	-.6798	.3692	39.11	.3080	13200.
#3	78.15	-1.241	-.2054	42.26	.0732	13180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.944**	**.3864**	**-.7999**	**1.700**	**59.46**	**2378.**
Stddev	.142	.2142	.5221	.433	11.58	19.
%RSD	7.328	55.44	65.28	25.48	19.47	.8183
#1	1.954	.6145	-.2092	1.361	72.70	2387.
#2	1.797	.1894	-1.200	2.188	51.22	2392.
#3	2.081	.3553	-.9907	1.551	54.47	2356.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-19-C@5 Acquired: 3/19/2018 18:35:50 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5202.**	**46.31**	F **259100.**	**.9003**	**13.36**	**1.685**
Stddev	20.	.07	3305.	.0358	1.14	.279
%RSD	.3824	.1403	1.276	3.979	8.508	16.55
#1	5195.	46.36	262100.	.8761	12.43	1.366
#2	5224.	46.34	259500.	.8833	13.03	1.805
#3	5187.	46.24	255600.	.9415	14.63	1.883
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.385**	**-.7225**	**1.721**	**13.95**	**45.89**	**-.5203**
Stddev	.511	1.172	.641	.43	2.82	.4977
%RSD	21.41	162.3	37.25	3.078	6.148	95.66
#1	-2.262	.6305	1.675	14.11	44.95	-.3951
#2	-2.946	-1.440	1.104	13.47	43.66	-1.069
#3	-1.947	-1.358	2.383	14.28	49.06	-.0972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-19-C@5 Acquired: 3/19/2018 18:35:50 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.5502**	**89.05**	**1.353**	**2438.**
Stddev	.8213	1.24	.093	133.
%RSD	149.3	1.391	6.848	5.466
#1	-1.099	90.02	1.365	2553.
#2	.3941	89.48	1.255	2292.
#3	-.9457	87.66	1.439	2469.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2692.5**	**23934.**	**2260.3**
Stddev	115.9	90.	13.6
%RSD	4.3057	.37456	.60029
#1	2638.2	23880.	2271.9
#2	2825.6	23885.	2245.4
#3	2613.6	24038.	2263.8

Sample Name: Acquired: 3/19/2018 17:48:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14.45**	**1.173**	**-.3728**	**.0817**	**.0139**	**46.20**
Stddev	7.53	1.604	.3172	.0455	.1043	2.12
%RSD	52.11	136.8	85.11	55.76	749.5	4.592
#1	10.75	2.104	-.4980	.1340	-.0135	44.23
#2	23.12	2.095	-.0120	.0510	.1292	45.93
#3	9.487	-.6795	-.6082	.0601	-.0739	48.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4131**	**.4542**	**-1.122**	**-5.588**	**-2.767**	**87.03**
Stddev	.0387	.1114	.367	.111	1.503	11.39
%RSD	9.379	24.54	32.68	1.981	54.30	13.09
#1	.4338	.5682	-.7024	-5.564	-3.375	99.25
#2	.4371	.4489	-1.380	-5.491	-1.056	85.15
#3	.3684	.3455	-1.283	-5.708	-3.870	76.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 17:48:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9394**	**-.0958**	**29.05**	**.2447**	**1.117**	**-.9721**
Stddev	2.819	.0452	19.60	.0649	.849	.2104
%RSD	300.1	47.20	67.46	26.53	75.97	21.64
#1	2.261	-.0445	47.39	.2178	1.197	-1.211
#2	-2.027	-.1298	31.38	.1975	1.922	-.8129
#3	-3.053	-.1132	8.394	.3187	.2312	-.8928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.554**	**4.572**	**1.541**	**-.3031**	**-32.96**	**-.2375**
Stddev	.127	.594	.551	.0464	.44	.0979
%RSD	2.790	12.99	35.77	15.32	1.330	41.21
#1	-4.601	5.198	1.143	-.2505	-33.20	-.1253
#2	-4.411	4.500	1.310	-.3202	-32.46	-.3055
#3	-4.652	4.017	2.171	-.3385	-33.24	-.2817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 17:48:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-1.243**	**-.0188**	**-.3266**	F **-277.8**
Stddev	.129	.0521	.0237	8.7
%RSD	10.38	277.1	7.255	3.117
#1	-1.094	-.0344	-.3059	-286.6
#2	-1.315	-.0613	-.3214	-277.3
#3	-1.320	.0393	-.3524	-269.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**5664.0**	**49455.**	**3842.0**
Stddev	141.5	639.	466.7
%RSD	2.4984	1.2916	12.147
#1	5812.7	50137.	3534.7
#2	5530.9	48870.	4379.0
#3	5648.5	49359.	3612.4

Sample Name: 460-151958-B-10-C@5 Acquired: 3/19/2018 17:52:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**61.26**	**.8975**	**.0316**	**59.12**	**.2481**	**7981.**
Stddev	25.17	1.319	.0997	1.16	.2673	28.
%RSD	41.09	147.0	315.1	1.961	107.7	.3518
#1	80.98	.8719	.1018	59.72	-.0152	8009.
#2	32.91	-.4090	.0756	59.86	.2403	7953.
#3	69.90	2.230	-.0825	57.79	.5192	7981.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0022**	**1.793**	**-.7523**	**1.404**	**28.90**	**2277.**
Stddev	.0792	.125	.7256	.075	12.74	29.
%RSD	3676.	6.961	96.44	5.343	44.07	1.272
#1	.0876	1.849	-1.581	1.384	17.19	2244.
#2	-.0322	1.880	-.4450	1.341	27.05	2293.
#3	-.0619	1.650	-.2311	1.487	42.46	2295.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-10-C@5 Acquired: 3/19/2018 17:52:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3921.**	**81.21**	F **251400.**	**4.890**	**3.726**	**-.1482**
Stddev	19.	.59	2370.	.365	.383	.3289
%RSD	.4843	.7258	.9425	7.469	10.27	221.9
#1	3941.	81.55	254100.	4.774	3.292	-.4304
#2	3903.	80.53	249600.	5.298	3.874	.2129
#3	3919.	81.55	250600.	4.596	4.013	-.2273
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.9783**	**.1999**	**.9335**	**4.266**	**11.78**	**-.5010**
Stddev	3.137	1.921	.3162	.055	.51	.1889
%RSD	320.6	960.8	33.88	1.292	4.373	37.70
#1	-2.304	2.156	.9508	4.253	11.34	-.3094
#2	3.947	-1.684	1.241	4.326	12.34	-.6870
#3	1.292	.1274	.6089	4.218	11.64	-.5067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-B-10-C@5 Acquired: 3/19/2018 17:52:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2644**	**45.31**	**.6091**	**2195.**
Stddev	1.770	.09	.0531	94.
%RSD	669.1	.1949	8.724	4.294
#1	1.375	45.41	.5938	2297.
#2	1.194	45.29	.5653	2177.
#3	-1.776	45.23	.6682	2112.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2670.8**	**23774.**	**2218.0**
Stddev	75.3	83.	18.8
%RSD	2.8184	.34865	.84735
#1	2623.7	23678.	2197.4
#2	2631.1	23830.	2222.6
#3	2757.6	23812.	2234.1

Sample Name: 460-152131-J-4-B@5 Acquired: 3/19/2018 18:51:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**41.72**	**-.6549**	**.2253**	**1.694**	**.0977**	**9142.**
Stddev	4.39	2.652	.6399	.067	.1444	40.
%RSD	10.53	405.0	284.0	3.960	147.9	.4329
#1	45.67	-2.298	.6744	1.666	-.0434	9161.
#2	36.99	2.405	.5088	1.645	.0913	9167.
#3	42.49	-2.071	-.5073	1.770	.2452	9096.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0476**	**1.915**	**-.7276**	**.3364**	**38.73**	**2447.**
Stddev	.0697	.048	.2567	.3346	6.28	34.
%RSD	146.4	2.505	35.28	99.47	16.20	1.407
#1	-.0348	1.864	-.8961	.1607	38.67	2476.
#2	-.1228	1.923	-.4321	.7222	32.49	2456.
#3	.0147	1.959	-.8546	.1263	45.04	2409.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-J-4-B@5 Acquired: 3/19/2018 18:51:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3717.**	**9.841**	**15570.**	**1.392**	**3.204**	**2.187**
Stddev	19.	.099	136.	.167	.859	1.504
%RSD	.5032	1.004	.8737	11.97	26.80	68.77
#1	3730.	9.762	15710.	1.210	3.434	2.174
#2	3726.	9.952	15440.	1.430	2.254	3.697
#3	3696.	9.809	15570.	1.536	3.925	.6895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6396**	**.5929**	**3.005**	**2.251**	**11.27**	**1.149**
Stddev	1.435	.9309	1.398	.261	1.77	.088
%RSD	224.4	157.0	46.53	11.60	15.73	7.643
#1	1.607	1.361	1.676	2.334	11.43	1.080
#2	1.320	.8605	4.463	2.460	12.96	1.248
#3	-1.009	-.4425	2.876	1.958	9.422	1.120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-J-4-B@5 Acquired: 3/19/2018 18:51:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0826**	**20.10**	**.9439**	**1282.**
Stddev	1.008	.10	.0791	55.
%RSD	1221.	.4741	8.382	4.324
#1	-1.073	20.19	.9883	1293.
#2	.5364	20.12	.9908	1332.
#3	.7841	20.00	.8526	1222.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2781.0**	**25476.**	**2257.2**
Stddev	91.0	253.	12.7
%RSD	3.2709	.99502	.56258
#1	2740.6	25394.	2264.0
#2	2717.2	25274.	2265.0
#3	2885.1	25761.	2242.5

Sample Name: MB 460-504389/1-A Acquired: 3/19/2018 19:03:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13.00**	**.2557**	**.4482**	**.0498**	**-.0110**	**-1.786**
Stddev	20.03	1.291	.3831	.0443	.0712	1.563
%RSD	154.1	505.1	85.46	88.97	649.1	87.51
#1	-9.182	1.452	.2890	.0396	.0223	-1.758
#2	18.42	-1.113	.1705	.0982	-.0927	-.2372
#3	29.75	.4286	.8852	.0115	.0375	-3.362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1246**	**.0515**	**-1.208**	**-.8134**	**11.27**	**104.2**
Stddev	.1677	.6691	.187	.1445	10.56	55.5
%RSD	134.6	1300.	15.50	17.76	93.73	53.29
#1	.0682	-.5782	-.9950	-.7808	9.983	66.46
#2	-.2360	.7540	-1.348	-.6880	1.408	167.9
#3	-.2060	-.0214	-1.280	-.9714	22.41	78.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504389/1-A Acquired: 3/19/2018 19:03:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.565**	**-.0685**	**211.8**	**-.4634**	**-.0871**	**.8029**
Stddev	7.212	.0531	11.0	.3051	1.659	.8833
%RSD	460.8	77.60	5.185	65.84	1904.	110.0
#1	2.182	-.1297	223.4	-.8157	1.828	1.741
#2	-5.935	-.0419	201.6	-.2828	-1.003	-.0123
#3	8.448	-.0339	210.3	-.2917	-1.086	.6797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.243**	**-.7374**	**.6986**	**.2439**	**-29.77**	**-.5498**
Stddev	4.018	1.090	.1203	.1018	.16	.2291
%RSD	179.1	147.8	17.22	41.73	.5260	41.66
#1	.2192	-.8706	.5603	.2171	-29.83	-.5295
#2	-.0686	.4131	.7789	.3563	-29.59	-.7884
#3	-6.880	-1.755	.7567	.1581	-29.88	-.3316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-504389/1-A Acquired: 3/19/2018 19:03:58 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.5190**	**.0905**	**-.2012**	**-256.0**
Stddev	.1757	.0914	.2284	10.2
%RSD	33.85	100.9	113.5	3.985
#1	-.4194	-.0117	-.4644	-253.9
#2	-.4158	.1192	-.0834	-247.1
#3	-.7219	.1641	-.0557	-267.1
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2759.9**	**25702.**	**2286.0**
Stddev	13.4	95.	13.9
%RSD	.48548	.37100	.60954
#1	2774.8	25740.	2294.9
#2	2756.4	25773.	2293.2
#3	2748.7	25594.	2270.0

Sample Name: 460-151958-D-14-C@5 Acquired: 3/19/2018 18:04:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**62.19**	**8.039**	**.9198**	**69.52**	**.1263**	**9153.**
Stddev	15.37	1.553	.4487	1.85	.1414	51.
%RSD	24.72	19.32	48.78	2.655	112.0	.5566
#1	76.89	9.825	1.387	70.96	.1292	9151.
#2	63.45	6.997	.4927	70.15	.2662	9205.
#3	46.22	7.296	.8794	67.44	-.0167	9104.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0365**	**2.616**	**-.1241**	**.6874**	**80.76**	**5784.**
Stddev	.0593	.329	.3559	.2704	16.75	106.
%RSD	162.3	12.56	286.9	39.34	20.74	1.826
#1	.0968	2.240	.2834	.4561	86.86	5765.
#2	-.0217	2.755	-.3743	.6213	93.61	5898.
#3	.0345	2.851	-.2813	.9847	61.82	5690.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-14-C@5 Acquired: 3/19/2018 18:04:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2418.**	**84.31**	F **256400.**	**3.870**	**4.479**	**.7203**
Stddev	23.	1.19	486.	.288	.719	1.733
%RSD	.9689	1.411	.1895	7.442	16.05	240.6
#1	2433.	84.99	255900.	4.201	4.771	2.628
#2	2429.	85.00	256900.	3.684	5.005	-.7581
#3	2391.	82.93	256500.	3.724	3.660	.2912
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.275**	**-.6716**	**.3077**	**32.58**	**29.17**	**-.3718**
Stddev	2.365	.8791	.7487	1.17	2.56	.1947
%RSD	185.5	130.9	243.3	3.603	8.779	52.36
#1	2.341	-.8736	-.5409	33.38	30.94	-.4393
#2	-1.435	-1.432	.5893	33.13	30.34	-.5237
#3	2.921	.2909	.8748	31.23	26.23	-.1524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-14-C@5 Acquired: 3/19/2018 18:04:17 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0772**	**103.8**	**.8761**	**2418.**
Stddev	1.259	.5	.2442	112.
%RSD	1630.	.4884	27.87	4.631
#1	.5185	103.5	.8390	2482.
#2	.7735	104.4	1.137	2484.
#3	-1.524	103.5	.6526	2289.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2650.5**	**23512.**	**2189.1**
Stddev	57.9	76.	19.0
%RSD	2.1848	.32439	.86588
#1	2610.7	23483.	2208.2
#2	2623.8	23454.	2188.9
#3	2716.9	23599.	2170.3

Sample Name: LCS 460-504389/2-A@2 Acquired: 3/19/2018 19:08:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2511.**	**2346.**	**240.7**	**5116.**	**504.4**	**9990.**
Stddev	17.	64.	1.7	137.	1.5	83.
%RSD	.6859	2.735	.7218	2.677	.3072	.8261
#1	2513.	2370.	240.0	5168.	505.0	9981.
#2	2527.	2395.	242.7	5218.	505.6	10080.
#3	2493.	2274.	239.4	4960.	502.7	9913.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**514.4**	**518.6**	**2609.**	**488.5**	**542.8**	**9846.**
Stddev	13.6	14.3	19.	2.0	18.4	62.
%RSD	2.641	2.763	.7340	.4181	3.391	.6347
#1	519.0	524.5	2610.	487.9	547.2	9890.
#2	525.0	529.0	2628.	490.8	558.6	9873.
#3	499.1	502.2	2590.	486.8	522.6	9774.
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Sample Name: LCS 460-504389/2-A@2 Acquired: 3/19/2018 19:08:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10060.**	**510.7**	**9203.**	**528.1**	**2598.**	**482.9**
Stddev	57.	4.2	47.	14.0	68.	14.7
%RSD	.5702	.8266	.5149	2.654	2.633	3.040
#1	10080.	509.4	9205.	533.4	2620.	486.6
#2	10110.	515.4	9250.	538.6	2653.	495.4
#3	9997.	507.3	9155.	512.2	2522.	466.7
Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**488.2**	**532.8**	**257.8**	**529.7**	**522.9**	**529.8**
Stddev	8.1	14.8	1.0	13.4	14.1	13.9
%RSD	1.651	2.781	.3725	2.537	2.696	2.623
#1	488.2	535.4	258.6	531.3	522.5	530.4
#2	496.3	546.0	258.0	542.3	537.2	543.4
#3	480.2	516.8	256.7	515.6	509.0	515.6
Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Sample Name: LCS 460-504389/2-A@2 Acquired: 3/19/2018 19:08:00 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**532.0**	**484.2**	**511.5**	**87.51**
Stddev	14.9	2.2	3.7	1.66
%RSD	2.798	.4644	.7182	1.897
#1	530.2	483.3	511.0	87.61
#2	547.8	486.7	515.4	85.80
#3	518.2	482.5	508.2	89.11
Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2786.1**	**25294.**	**2257.7**
Stddev	67.9	117.	23.0
%RSD	2.4380	.46294	1.0201
#1	2758.1	25215.	2232.7
#2	2736.7	25239.	2278.0
#3	2863.6	25429.	2262.5

Sample Name: CCB Acquired: 3/19/2018 19:19:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.02**	**.0147**	**.4077**	**.1866**	**.1069**	**-1.273**
Stddev	12.49	1.630	.9585	.0651	.0885	2.851
%RSD	69.33	11110.	235.1	34.91	82.80	224.0
#1	32.41	1.441	1.339	.2599	.0680	-4.192
#2	11.68	-1.761	-.5757	.1646	.2083	-1.132
#3	9.968	.3642	.4595	.1353	.0446	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1075**	**.1467**	**-1.040**	**-.1220**	**9.257**	**127.2**
Stddev	.0639	.1423	.354	.4183	1.991	49.6
%RSD	59.44	97.04	34.07	342.9	21.51	39.01
#1	-.1477	.0131	-.9518	.0603	7.049	159.4
#2	-.0338	.1306	-1.430	.1743	9.805	152.0
#3	-.1409	.2964	-.7376	-.6005	10.92	70.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 19:19:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.869**	**.0392**	**431.5**	**-.2834**	**1.489**	**-.1820**
Stddev	5.941	.0600	44.6	.1536	1.109	.6909
%RSD	122.0	152.9	10.34	54.18	74.50	379.5
#1	-.8186	-.0101	480.3	-.3696	.4663	-.6128
#2	11.03	.1060	421.4	-.1061	1.332	-.5482
#3	4.393	.0217	392.8	-.3746	2.668	.6149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.411**	**.6837**	**.6543**	**-.1115**	**-.6258**	**.2571**
Stddev	3.608	.2458	1.021	.3607	.9416	.3875
%RSD	149.7	35.95	156.1	323.4	150.5	150.7
#1	6.429	.5974	1.365	.0227	.3742	.6469
#2	1.354	.9610	1.114	-.5202	-.7561	.2526
#3	-.5505	.4926	-.5158	.1628	-1.495	-.1281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 19:19:30 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7296**	**.1055**	**.5119**	**9.839**
Stddev	1.222	.0127	.3955	64.43
%RSD	167.5	12.09	77.27	654.9
#1	1.810	.0996	.9381	70.44
#2	.9759	.1201	.4409	-57.83
#3	-.5970	.0967	.1567	16.91
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2845.9**	**25715.**	**2286.7**
Stddev	82.2	286.	21.8
%RSD	2.8873	1.1141	.95207
#1	2774.1	26005.	2308.1
#2	2935.5	25708.	2287.4
#3	2828.1	25432.	2264.6

Sample Name: CCVL Acquired: 3/19/2018 19:23:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**245.2**	**14.82**	**10.20**	**221.1**	**2.087**	**5291.**
Stddev	17.7	1.24	.55	2.8	.106	82.
%RSD	7.199	8.369	5.388	1.262	5.093	1.552
#1	224.9	16.18	10.49	224.3	2.115	5364.
#2	255.1	13.76	10.54	219.9	1.969	5308.
#3	255.7	14.51	9.562	219.1	2.176	5202.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.305**	**56.57**	**10.85**	**25.92**	**187.3**	**5166.**
Stddev	.097	.69	.35	.41	4.0	80.
%RSD	2.259	1.214	3.186	1.572	2.147	1.550
#1	4.197	57.33	11.22	26.39	189.7	5219.
#2	4.385	56.00	10.80	25.66	182.7	5205.
#3	4.333	56.38	10.54	25.71	189.6	5073.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 19:23:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5390.**	**16.67**	**5310.**	**46.44**	**11.81**	**21.97**
Stddev	96.	.28	103.	.61	1.94	.84
%RSD	1.777	1.707	1.935	1.308	16.41	3.819
#1	5444.	16.73	5413.	47.05	12.11	22.08
#2	5446.	16.92	5312.	46.45	9.745	22.75
#3	5279.	16.36	5207.	45.83	13.59	21.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.27**	**22.10**	**55.13**	**34.66**	F **29.99**	**22.41**
Stddev	1.07	1.41	1.40	1.11	2.27	.87
%RSD	5.028	6.402	2.531	3.200	7.552	3.865
#1	21.79	23.10	56.15	35.92	32.54	23.39
#2	20.04	22.73	55.71	33.86	29.21	22.11
#3	21.99	20.48	53.54	34.18	28.21	21.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 19:23:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.52**	**20.68**	**22.67**	F **-214.5**
Stddev	1.17	.23	.79	12.5
%RSD	2.073	1.103	3.465	5.846
#1	57.84	20.84	22.66	-200.0
#2	55.60	20.78	23.47	-222.0
#3	56.12	20.42	21.90	-221.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2718.8**	**25029.**	**2232.2**
Stddev	47.3	407.	53.3
%RSD	1.7402	1.6246	2.3878
#1	2664.4	24793.	2201.4
#2	2741.6	24795.	2201.4
#3	2750.4	25498.	2293.7

Sample Name: 460-151968-K-1-H MS Acquired: 3/19/2018 19:35:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1043.**	**1053.**	**113.0**	**152.3**	**195.6**	**8122.**
Stddev	23.	16.	.1	2.9	1.5	30.
%RSD	2.218	1.472	.1236	1.921	.7555	.3683
#1	1069.	1069.	112.8	155.2	195.8	8121.
#2	1030.	1052.	113.1	152.2	197.0	8092.
#3	1029.	1039.	112.9	149.4	194.1	8152.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**214.4**	**377.3**	**1100.**	**219.4**	**257.3**	**6430.**
Stddev	4.1	7.4	3.	2.3	19.1	235.
%RSD	1.917	1.956	.2818	1.048	7.412	3.657
#1	218.5	384.7	1103.	219.9	275.9	6160.
#2	214.4	377.3	1097.	216.9	237.8	6540.
#3	210.3	369.9	1100.	221.4	258.3	6591.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-H MS Acquired: 3/19/2018 19:35:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4785.**	**214.4**	F **2266000.**	**228.5**	**360.1**	**219.8**
Stddev	51.	1.5	120600.	4.9	5.5	2.6
%RSD	1.059	.6787	5.322	2.130	1.533	1.160
#1	4839.	214.1	2401000.	233.4	365.6	221.8
#2	4738.	213.1	2227000.	228.5	360.3	220.7
#3	4778.	216.0	2170000.	223.7	354.5	217.0
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**779.2**	**166.5**	**109.7**	**224.0**	**546.4**	**205.2**
Stddev	9.8	2.0	1.8	2.9	5.5	2.4
%RSD	1.260	1.218	1.610	1.283	.9990	1.179
#1	787.9	165.8	109.0	226.7	546.5	206.2
#2	781.0	168.8	108.4	224.3	551.8	207.0
#3	768.6	164.9	111.7	221.0	540.9	202.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-H MS Acquired: 3/19/2018 19:35:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**198.7**	**191.8**	**219.8**	**341.7**
Stddev	2.7	1.9	2.2	36.9
%RSD	1.352	.9657	.9988	10.79
#1	200.6	191.7	217.5	371.1
#2	199.9	193.8	220.0	300.4
#3	195.6	190.1	221.8	353.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2463.5**	**20332.**	**2178.6**
Stddev	74.0	317.	72.3
%RSD	3.0044	1.5592	3.3207
#1	2384.1	20181.	2172.2
#2	2476.0	20119.	2109.7
#3	2530.6	20697.	2253.9

Sample Name: pds 460-151968-K-1-F Acquired: 3/19/2018 19:39:37 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1962.**	**2029.**	**54.64**	**1871.**	**46.06**	**23590.**
Stddev	3.	20.	.77	30.	.25	179.
%RSD	.1410	.9862	1.413	1.602	.5418	.7574
#1	1963.	2029.	55.29	1877.	46.04	23590.
#2	1963.	2050.	54.84	1897.	46.31	23760.
#3	1958.	2010.	53.78	1838.	45.82	23400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**63.61**	**657.7**	**216.9**	**263.0**	**1034.**	**22080.**
Stddev	.60	6.9	3.0	4.3	16.	174.
%RSD	.9442	1.055	1.384	1.636	1.500	.7860
#1	63.36	651.8	219.9	265.4	1021.	21890.
#2	64.29	665.4	216.8	265.6	1051.	22140.
#3	63.17	655.8	213.9	258.1	1030.	22220.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151968-K-1-F Acquired: 3/19/2018 19:39:37 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18890.**	**489.5**	F **2201000.**	**490.6**	**448.2**	**490.5**
Stddev	208.	5.9	22900.	5.3	3.2	7.1
%RSD	1.101	1.197	1.040	1.087	.7151	1.458
#1	19000.	491.6	2213000.	489.6	448.9	490.1
#2	19030.	494.0	2215000.	496.3	451.0	497.8
#3	18660.	482.8	2174000.	485.8	444.7	483.6
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2848.**	**1727.**	**522.7**	**515.3**	**844.5**	**483.4**
Stddev	15.	24.	6.3	6.6	6.5	5.6
%RSD	.5310	1.368	1.203	1.286	.7691	1.165
#1	2837.	1746.	522.9	519.5	837.6	486.8
#2	2865.	1736.	528.8	518.7	850.5	486.6
#3	2843.	1701.	516.3	507.7	845.3	476.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151968-K-1-F Acquired: 3/19/2018 19:39:37 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**472.7**	**482.7**	**501.5**	**374.3**
Stddev	5.3	.4	7.0	7.6
%RSD	1.114	.0908	1.398	2.019
#1	476.7	482.4	505.1	365.6
#2	474.8	483.2	506.1	378.5
#3	466.8	482.5	493.5	378.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2391.5**	**20324.**	**2204.1**
Stddev	25.6	128.	5.7
%RSD	1.0718	.63114	.25755
#1	2404.7	20465.	2209.3
#2	2361.9	20214.	2205.0
#3	2407.7	20293.	2198.1

Sample Name: 460-151978-C-9-C@5 Acquired: 3/19/2018 19:47:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**484.6**	**2.971**	**.7384**	**20.88**	**.5973**	**191900.**
Stddev	36.0	1.916	.1525	.31	.1049	244.
%RSD	7.424	64.49	20.66	1.488	17.57	.1271
#1	443.2	4.061	.8100	20.52	.6599	192100.
#2	503.2	4.095	.5632	21.05	.4761	191900.
#3	507.5	.7589	.8419	21.06	.6558	191600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2516**	**2.043**	**2.297**	**.0741**	**37.30**	**2055.**
Stddev	.1151	.421	.383	.2458	8.82	16.
%RSD	45.76	20.58	16.65	331.7	23.65	.7779
#1	.3510	2.442	1.981	-.1245	47.32	2073.
#2	.2784	1.604	2.722	-.0022	30.71	2048.
#3	.1254	2.084	2.188	.3489	33.87	2044.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-9-C@5 Acquired: 3/19/2018 19:47:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3025.**	**88.02**	F **263200.**	**3.688**	**3.651**	**.8045**
Stddev	30.	.65	429.	.214	.776	1.059
%RSD	.9777	.7353	.1628	5.810	21.27	131.7
#1	2997.	87.32	263600.	3.525	2.810	1.791
#2	3021.	88.15	262700.	3.608	3.802	-.3149
#3	3056.	88.59	263400.	3.931	4.341	.9373
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.766**	**-.9270**	**4.109**	**5.643**	**18.33**	**-.8320**
Stddev	2.790	1.303	.386	.242	1.63	.2790
%RSD	158.0	140.6	9.386	4.286	8.874	33.53
#1	-.6093	.4138	3.704	5.365	16.48	-1.144
#2	4.839	-1.005	4.149	5.802	19.00	-.7444
#3	1.068	-2.190	4.472	5.762	19.52	-.6073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151978-C-9-C@5 Acquired: 3/19/2018 19:47:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.5026**	**405.6**	**2.449**	**1346.**
Stddev	.9255	2.7	.106	44.
%RSD	184.2	.6620	4.328	3.242
#1	-1.565	408.5	2.548	1295.
#2	.1255	405.3	2.463	1372.
#3	-.0678	403.1	2.337	1370.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2623.8**	**23840.**	**2287.4**
Stddev	39.3	109.	14.2
%RSD	1.4984	.45607	.62117
#1	2669.1	23965.	2301.8
#2	2603.1	23791.	2273.4
#3	2599.2	23765.	2287.0

Sample Name: 460-151997-A-1-B@5 Acquired: 3/19/2018 19:51:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**237.9**	**23.05**	**.2923**	**40.15**	**.0109**	**29300.**
Stddev	15.7	3.07	.4719	1.32	.0931	188.
%RSD	6.580	13.34	161.5	3.281	853.8	.6403
#1	249.4	22.41	.8159	41.59	.1181	29370.
#2	244.1	26.40	.1611	39.84	-.0485	29080.
#3	220.1	20.35	-.1002	39.01	-.0369	29430.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.452**	**142.2**	**35.96**	**4086.**	**76.78**	**19460.**
Stddev	.286	4.6	.36	10.	7.29	32.
%RSD	3.384	3.258	1.004	.2363	9.500	.1660
#1	8.779	147.4	35.90	4078.	83.72	19490.
#2	8.326	140.7	35.62	4083.	77.45	19420.
#3	8.250	138.5	36.34	4096.	69.18	19460.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151997-A-1-B@5 Acquired: 3/19/2018 19:51:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**407.0**	**81.10**	F **276800.**	**6.074**	**583.4**	**15.41**
Stddev	4.8	.34	782.	.414	20.0	1.12
%RSD	1.180	.4203	.2825	6.820	3.424	7.268
#1	412.3	81.48	277500.	6.476	606.2	15.44
#2	403.0	81.00	276000.	5.648	574.4	14.27
#3	405.6	80.82	276900.	6.099	569.4	16.51
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.872**	**-.5036**	**1.957**	F **6261.**	**24.74**	**-.4577**
Stddev	2.567	1.022	.966	229.	1.62	.3587
%RSD	137.1	202.9	49.34	3.663	6.564	78.36
#1	1.033	-.4325	1.859	6521.	26.62	-.7926
#2	-2.816	.4810	1.044	6174.	23.92	-.5015
#3	-3.834	-1.559	2.968	6088.	23.70	-.0792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Sample Name: 460-151997-A-1-B@5 Acquired: 3/19/2018 19:51:26 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.599**	**87.69**	**9.787**	**312.6**
Stddev	.726	.11	.395	39.0
%RSD	45.42	.1258	4.038	12.47
#1	1.956	87.79	9.688	357.6
#2	.7635	87.71	9.450	290.0
#3	2.079	87.57	10.22	290.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2770.5**	**24333.**	**2304.9**
Stddev	111.6	319.	45.6
%RSD	4.0283	1.3098	1.9796
#1	2643.8	24003.	2276.9
#2	2813.5	24640.	2280.3
#3	2854.2	24356.	2357.5

Sample Name: 460-152160-F-1-B@5 Acquired: 3/19/2018 19:59:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**78.43**	**-.8441**	**1.550**	**193.5**	**.0011**	**19810.**
Stddev	2.05	2.942	.739	5.4	.1607	156.
%RSD	2.614	348.5	47.66	2.779	14820.	.7868
#1	76.86	-4.116	.8621	199.1	-.1812	19770.
#2	80.75	1.584	2.331	188.4	.1222	19670.
#3	77.68	-.0009	1.458	193.0	.0622	19980.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.409**	**2.185**	**-.5651**	**5.953**	**94.18**	**48190.**
Stddev	.042	.591	1.020	.464	14.04	497.
%RSD	2.967	27.06	180.6	7.799	14.91	1.031
#1	1.369	2.769	-.8903	5.709	100.6	47760.
#2	1.453	2.200	-1.383	6.488	103.9	48070.
#3	1.405	1.587	.5784	5.661	78.08	48730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-F-1-B@5 Acquired: 3/19/2018 19:59:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3781.**	**804.4**	F **2158000.**	**4.510**	**2.070**	**.6913**
Stddev	61.	7.2	116900.	.018	1.377	.6192
%RSD	1.604	.8983	5.417	.3976	66.52	89.56
#1	3717.	799.6	2287000.	4.500	1.104	.1370
#2	3789.	800.9	2128000.	4.499	3.647	.5775
#3	3838.	812.7	2059000.	4.530	1.459	1.360
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6012**	**-1.210**	**.8453**	**26.42**	**22.42**	**-.6846**
Stddev	.7055	1.611	1.422	.36	.64	.0736
%RSD	117.4	133.2	168.2	1.356	2.866	10.74
#1	.6643	-.9626	-.6650	26.66	22.88	-.6400
#2	1.273	-2.931	2.158	26.01	21.69	-.7695
#3	-.1338	.2632	1.043	26.59	22.69	-.6442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-F-1-B@5 Acquired: 3/19/2018 19:59:22 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0087**	**128.0**	**1.825**	**340.6**
Stddev	1.242	.6	.273	37.7
%RSD	14270.	.4402	14.98	11.07
#1	-.3031	127.6	1.711	302.4
#2	1.377	127.8	2.137	341.6
#3	-1.048	128.7	1.628	377.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2461.1**	**20393.**	**2197.6**
Stddev	78.3	230.	36.2
%RSD	3.1799	1.1258	1.6492
#1	2379.1	20261.	2164.2
#2	2535.0	20658.	2236.2
#3	2469.4	20260.	2192.4

Sample Name: 460-152160-D-2-B@5 Acquired: 3/19/2018 20:03:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33.45**	**5.465**	**.2286**	**77.91**	**-.0134**	**16460.**
Stddev	6.59	3.734	.3428	3.41	.1554	253.
%RSD	19.72	68.33	149.9	4.379	1161.	1.534
#1	34.17	7.240	.3809	79.86	-.1789	16190.
#2	39.65	7.980	.4688	79.90	.0092	16520.
#3	26.52	1.174	-.1639	73.97	.1295	16680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1424**	**.6299**	**-.5309**	**.0874**	**524.1**	**2145.**
Stddev	.0697	.1720	.6228	.4594	19.0	56.
%RSD	48.96	27.30	117.3	525.5	3.629	2.603
#1	-.1564	.4317	.1521	-.3336	508.4	2196.
#2	-.2041	.7389	-1.067	.5774	518.5	2154.
#3	-.0668	.7193	-.6777	.0184	545.3	2086.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-2-B@5 Acquired: 3/19/2018 20:03:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1363.**	**194.0**	**15770.**	**.7945**	**.3995**	**.4350**
Stddev	36.	5.6	127.	.0690	1.213	.8611
%RSD	2.659	2.901	.8075	8.688	303.7	198.0
#1	1323.	187.7	15650.	.8642	1.296	.8752
#2	1372.	195.6	15900.	.7262	-.9813	-.5572
#3	1393.	198.6	15760.	.7931	.8840	.9870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.182**	**.4081**	**-.0713**	**2.153**	**9.272**	**-.6439**
Stddev	1.291	.5865	.5233	.120	1.486	.2028
%RSD	109.3	143.7	734.3	5.583	16.03	31.49
#1	1.679	.0368	-.2262	2.144	10.09	-.5032
#2	2.151	.1031	.5120	2.277	10.17	-.8764
#3	-.2842	1.084	-.4997	2.037	7.557	-.5522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-2-B@5 Acquired: 3/19/2018 20:03:28 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1479**	**104.9**	**1.293**	**356.9**
Stddev	.5314	.9	.118	44.3
%RSD	359.2	.9002	9.160	12.41
#1	.4559	104.0	1.430	338.5
#2	-.5442	105.9	1.238	407.5
#3	-.3555	104.8	1.213	324.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2814.2**	**25332.**	**2282.8**
Stddev	116.7	290.	21.5
%RSD	4.1456	1.1446	.94171
#1	2751.7	25659.	2305.0
#2	2742.0	25231.	2262.1
#3	2948.8	25107.	2281.2

Sample Name: 460-151958-D-15-C@5 Acquired: 3/19/2018 18:08:15 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**491.3**	**2.784**	**-.5675**	**18.73**	**.3148**	**189300.**
Stddev	20.1	1.552	.2559	.39	.2631	1330.
%RSD	4.086	55.76	45.09	2.060	83.57	.7026
#1	477.8	3.209	-.5433	19.12	.5105	189000.
#2	514.4	4.079	-.8347	18.35	.4182	190700.
#3	481.8	1.063	-.3246	18.71	.0157	188100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0650**	**2.690**	**3.704**	**.9429**	**55.07**	**1235.**
Stddev	.0645	.263	.016	.3075	9.98	73.
%RSD	99.26	9.773	.4316	32.62	18.12	5.886
#1	.0564	2.993	3.713	1.089	54.59	1232.
#2	.1334	2.546	3.686	1.150	65.28	1164.
#3	.0052	2.530	3.714	.5895	45.34	1310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-15-C@5 Acquired: 3/19/2018 18:08:15 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2294.**	**108.1**	F **267100.**	**3.910**	**4.606**	**-.0135**
Stddev	60.	2.1	762.	.396	1.314	.2056
%RSD	2.596	1.926	.2853	10.13	28.52	1525.
#1	2246.	106.5	266800.	3.648	4.537	-.1980
#2	2360.	110.5	266500.	4.365	5.953	-.0506
#3	2274.	107.4	267900.	3.716	3.329	.2081
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.686**	**1.172**	**9.250**	**5.995**	**12.23**	**-.8606**
Stddev	.737	1.513	1.065	.196	.34	.1322
%RSD	43.74	129.1	11.51	3.276	2.819	15.36
#1	1.063	2.503	9.807	6.022	12.32	-.7121
#2	2.500	1.486	8.023	6.176	11.85	-.9041
#3	1.494	-.4734	9.921	5.786	12.52	-.9655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-15-C@5 Acquired: 3/19/2018 18:08:15 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1378**	**409.8**	**2.493**	**1014.**
Stddev	.6483	3.2	.158	62.
%RSD	470.6	.7826	6.342	6.076
#1	-.0522	407.8	2.465	1084.
#2	.4635	408.1	2.351	966.2
#3	-.8245	413.5	2.664	992.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2671.5**	**23418.**	**2203.0**
Stddev	59.4	224.	20.2
%RSD	2.2232	.95531	.91744
#1	2612.1	23371.	2222.4
#2	2730.9	23222.	2182.1
#3	2671.5	23662.	2204.5

Sample Name: CCVL Acquired: 3/19/2018 20:15:07 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**226.6**	**14.65**	**10.69**	**213.2**	**2.090**	**5237.**
Stddev	27.1	.09	.08	8.7	.119	29.
%RSD	11.97	.6129	.7029	4.100	5.694	.5512
#1	204.9	14.74	10.62	217.8	2.010	5249.
#2	257.0	14.65	10.68	203.1	2.226	5257.
#3	217.8	14.56	10.77	218.6	2.033	5204.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.066**	**54.49**	**10.41**	**25.28**	**189.1**	**5046.**
Stddev	.123	2.20	.49	.16	21.6	7.
%RSD	3.029	4.043	4.675	.6333	11.44	.1289
#1	4.203	55.43	9.970	25.35	209.6	5047.
#2	3.964	51.98	10.93	25.39	166.5	5039.
#3	4.029	56.07	10.33	25.10	191.1	5052.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 20:15:07 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5375.**	**16.52**	**5274.**	**44.07**	**11.02**	**21.81**
Stddev	18.	.03	20.	1.71	1.34	1.27
%RSD	.3392	.1622	.3826	3.868	12.15	5.840
#1	5370.	16.53	5297.	45.20	12.25	22.84
#2	5395.	16.53	5269.	42.11	9.597	20.39
#3	5359.	16.48	5257.	44.91	11.21	22.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.38**	**21.58**	**56.43**	**34.36**	F **29.49**	**22.02**
Stddev	4.70	1.62	.28	1.50	3.50	1.00
%RSD	25.60	7.483	.4990	4.371	11.88	4.538
#1	14.91	21.40	56.71	34.63	31.43	22.53
#2	16.49	23.28	56.43	32.75	25.44	20.87
#3	23.73	20.07	56.15	35.72	31.59	22.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 20:15:07 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.77**	**20.38**	**22.78**	F **-173.4**
Stddev	2.37	.15	.20	43.1
%RSD	4.178	.7421	.8723	24.88
#1	57.89	20.26	23.01	-128.6
#2	54.04	20.33	22.67	-176.9
#3	58.36	20.55	22.66	-214.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2802.5**	**25100.**	**2246.4**
Stddev	131.6	296.	52.8
%RSD	4.6965	1.1778	2.3496
#1	2716.4	24870.	2211.5
#2	2954.0	24996.	2220.6
#3	2737.0	25434.	2307.1

Sample Name: 460-151958-D-18-C@5 Acquired: 3/19/2018 18:20:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**749.5**	**.3057**	**-.0305**	**15.39**	**.0934**	**8213.**
Stddev	8.7	1.723	.2656	.27	.0674	20.
%RSD	1.159	563.7	872.2	1.781	72.18	.2448
#1	739.5	2.146	-.1306	15.67	.1703	8223.
#2	754.5	.0419	.2707	15.37	.0651	8227.
#3	754.5	-1.270	-.2314	15.13	.0447	8190.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.9016**	**.3358**	**2.583**	**1.906**	**2438.**	**841.3**
Stddev	.0744	.0901	.271	.385	29.	35.3
%RSD	8.251	26.82	10.50	20.18	1.175	4.195
#1	.9614	.3512	2.823	2.011	2416.	845.4
#2	.9250	.4171	2.637	1.479	2471.	804.1
#3	.8183	.2390	2.289	2.227	2428.	874.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-18-C@5 Acquired: 3/19/2018 18:20:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1495.**	**19.87**	**232200.**	**.3490**	**8.219**	**.8598**
Stddev	9.	.05	789.	.2083	.580	.5662
%RSD	.6266	.2474	.3397	59.68	7.059	65.85
#1	1486.	19.91	232400.	.4489	7.557	.3061
#2	1505.	19.82	232900.	.1096	8.639	1.438
#3	1495.	19.90	231400.	.4885	8.460	.8356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.7544**	**-.4258**	**3.678**	**12.24**	**49.31**	**-.3875**
Stddev	.7452	.8067	.421	.26	.75	.1946
%RSD	98.77	189.4	11.45	2.129	1.523	50.21
#1	.4599	-1.181	4.098	12.43	50.16	-.1691
#2	1.602	.4237	3.681	11.94	49.06	-.5424
#3	.2015	-.5198	3.256	12.34	48.72	-.4510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151958-D-18-C@5 Acquired: 3/19/2018 18:20:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2556**	**71.34**	**9.953**	**2532.**
Stddev	.2673	.53	.187	79.
%RSD	104.6	.7486	1.874	3.101
#1	.0081	70.79	9.901	2619.
#2	.2195	71.38	10.16	2468.
#3	.5391	71.85	9.799	2509.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2681.8**	**23639.**	**2181.5**
Stddev	94.2	210.	42.6
%RSD	3.5112	.88639	1.9534
#1	2594.9	23568.	2179.2
#2	2668.5	23475.	2140.0
#3	2781.8	23875.	2225.2

Sample Name: 460-152160-E-10-B@5 Acquired: 3/19/2018 20:27:04 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31.43**	**-1.336**	**.4159**	**38.70**	**-.0118**	**8515.**
Stddev	2.63	2.938	.1239	.07	.1058	43.
%RSD	8.364	220.0	29.79	.1707	899.4	.5069
#1	29.87	1.981	.3303	38.65	-.1275	8562.
#2	34.46	-3.615	.3594	38.68	.0123	8478.
#3	29.95	-2.373	.5579	38.78	.0799	8504.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3504**	**.5937**	**-.7115**	**22.61**	**12870.**	**1046.**
Stddev	.0933	.1566	.7609	.79	79.	22.
%RSD	26.64	26.38	106.9	3.498	.6126	2.151
#1	-.4448	.4184	-1.590	23.19	12960.	1042.
#2	-.2582	.7199	-.2888	22.93	12810.	1070.
#3	-.3482	.6428	-.2558	21.71	12860.	1025.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-10-B@5 Acquired: 3/19/2018 20:27:04 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1727.**	**763.7**	**141600.**	**6.509**	**5.840**	**-1.074**
Stddev	7.	1.8	642.	.166	.858	1.525
%RSD	.3853	.2403	.4536	2.543	14.69	142.1
#1	1720.	765.6	142300.	6.699	5.044	.6041
#2	1730.	761.9	141100.	6.437	6.749	-2.377
#3	1732.	763.5	141500.	6.392	5.728	-1.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1026**	**.2778**	**1.147**	**15.58**	**36.98**	**-.7392**
Stddev	.7851	.8833	.983	.39	2.16	.1197
%RSD	765.2	317.9	85.66	2.532	5.846	16.19
#1	.8198	.2749	2.128	15.22	34.56	-.6489
#2	-.7362	1.163	.1630	16.00	38.73	-.6938
#3	.2242	-.6040	1.150	15.52	37.64	-.8750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-10-B@5 Acquired: 3/19/2018 20:27:04 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.2839**	**41.30**	**.6556**	**314.3**
Stddev	.8872	.05	.2547	34.2
%RSD	312.5	.1304	38.84	10.87
#1	-1.278	41.28	.9308	276.2
#2	-.0030	41.25	.4283	324.6
#3	.4288	41.36	.6078	342.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2698.0**	**24502.**	**2251.6**
Stddev	30.8	382.	38.4
%RSD	1.1403	1.5578	1.7062
#1	2662.9	24062.	2207.4
#2	2720.2	24701.	2270.9
#3	2710.8	24744.	2276.6

Sample Name: CCV Acquired: 3/19/2018 18:24:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**126600.**	**2518.**	**1256.**	**10330.**	**1023.**	**126900.**
Stddev	624.	25.	9.	81.	7.	948.
%RSD	.4928	.9989	.7443	.7841	.6525	.7474
#1	126100.	2492.	1246.	10250.	1016.	125900.
#2	126300.	2520.	1257.	10350.	1024.	126900.
#3	127300.	2543.	1265.	10400.	1029.	127800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1289.**	**2561.**	**5152.**	**12700.**	**102900.**	**50370.**
Stddev	10.	27.	23.	62.	651.	437.
%RSD	.7537	1.055	.4501	.4866	.6325	.8667
#1	1279.	2533.	5130.	12640.	102300.	49920.
#2	1291.	2563.	5149.	12710.	102700.	50400.
#3	1298.	2587.	5177.	12760.	103600.	50790.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 18:24:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**125400.**	**5124.**	**124300.**	**2586.**	**7767.**	**1014.**
Stddev	794.	43.	876.	18.	57.	7.
%RSD	.6329	.8337	.7051	.6784	.7277	.6644
#1	124600.	5082.	123500.	2567.	7704.	1006.
#2	125300.	5124.	124100.	2592.	7782.	1017.
#3	126200.	5167.	125200.	2600.	7814.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2535.**	**2592.**	**2540.**	**2608.**	**1028.**	**2578.**
Stddev	27.	33.	21.	17.	10.	22.
%RSD	1.062	1.260	.8316	.6498	.9812	.8508
#1	2510.	2558.	2522.	2588.	1017.	2554.
#2	2531.	2595.	2535.	2616.	1031.	2585.
#3	2564.	2623.	2563.	2619.	1037.	2596.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 18:24:11 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1032.**	**5082.**	**10270.**	**9935.**
Stddev	14.	33.	59.	77.
%RSD	1.385	.6480	.5749	.7757
#1	1020.	5056.	10200.	9914.
#2	1030.	5070.	10280.	10020.
#3	1048.	5119.	10320.	9871.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2501.9**	**22889.**	**2074.0**
Stddev	20.8	184.	11.0
%RSD	.83087	.80180	.53050
#1	2525.9	23092.	2086.7
#2	2489.7	22840.	2067.1
#3	2490.0	22735.	2068.2

Sample Name: CCB Acquired: 3/19/2018 18:27:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.80**	**.4522**	**.4802**	**.2066**	**.0231**	**-3.855**
Stddev	16.27	1.595	.2265	.0873	.1450	6.125
%RSD	137.9	352.7	47.16	42.25	628.9	158.9
#1	-6.835	2.067	.5037	.3056	-.0951	1.492
#2	19.01	-1.122	.2429	.1404	.1849	-2.520
#3	23.22	.4113	.6940	.1740	-.0205	-10.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0939**	**.2005**	**-.2613**	**-.5002**	**13.60**	**46.29**
Stddev	.0229	.1030	.4387	.1484	28.68	33.90
%RSD	24.42	51.36	167.9	29.66	210.8	73.23
#1	-.1164	.1588	-.3239	-.5598	45.66	22.59
#2	-.0947	.3178	-.6653	-.6094	4.794	31.17
#3	-.0705	.1249	.2053	-.3313	-9.640	85.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 18:27:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.77**	**.1128**	**82.93**	**.0302**	**-1.664**	**.0760**
Stddev	3.04	.1027	15.72	.0948	1.639	.8086
%RSD	25.81	91.06	18.96	313.8	98.47	1064.
#1	12.62	.0338	98.78	-.0725	-.2402	-.2388
#2	14.30	.0756	82.67	.1145	-3.456	-.5279
#3	8.403	.2289	67.34	.0486	-1.297	.9946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.063**	**.1100**	**1.216**	**-.1886**	**.7997**	**.3262**
Stddev	1.900	1.022	1.095	.1998	1.323	.4267
%RSD	178.7	929.5	90.02	105.9	165.4	130.8
#1	.9392	.9376	.3622	.0371	2.319	.7511
#2	-1.288	.4248	2.450	-.3428	-.0975	.3299
#3	-2.842	-1.032	.8360	-.2599	.1775	-.1023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 18:27:48 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-1.040**	**.1469**	**.5516**	**4.055**
Stddev	.399	.1416	.4070	23.04
%RSD	38.33	96.40	73.79	568.3
#1	-.7744	.1878	1.022	1.250
#2	-.8478	-.0107	.3217	-17.46
#3	-1.499	.2635	.3116	28.37
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2794.3**	**25352.**	**2247.3**
Stddev	36.2	200.	43.2
%RSD	1.2960	.78728	1.9219
#1	2760.0	25453.	2225.8
#2	2790.7	25481.	2297.0
#3	2832.2	25122.	2219.1

Sample Name: 460-152129-H-1-D@5 Acquired: 3/19/2018 20:43:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**542.6**	**-.2924**	**.4912**	**93.07**	**.0737**	**63300.**
Stddev	24.2	1.102	.4974	2.46	.1068	316.
%RSD	4.465	376.8	101.3	2.640	145.0	.4998
#1	515.4	-.9068	.3521	95.89	-.0259	63550.
#2	550.6	-.9497	.0781	91.95	.0605	62950.
#3	561.8	.9795	1.043	91.38	.1865	63410.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5021**	**4.649**	**.3615**	**9.752**	**518.0**	**1430.**
Stddev	.0516	.063	.4138	.586	5.8	43.
%RSD	10.27	1.349	114.5	6.010	1.118	2.978
#1	.4502	4.670	.0672	9.688	513.8	1391.
#2	.5026	4.578	.1827	9.201	515.5	1475.
#3	.5533	4.698	.8347	10.37	524.6	1424.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152129-H-1-D@5 Acquired: 3/19/2018 20:43:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2385.**	**306.4**	F **270200.**	**7.106**	**37.59**	**1.733**
Stddev	14.	.9	2671.	.177	3.23	1.758
%RSD	.5881	.2878	.9886	2.498	8.603	101.4
#1	2400.	307.0	273300.	7.110	41.32	.0067
#2	2372.	305.4	268800.	6.926	35.63	3.522
#3	2383.	306.7	268500.	7.281	35.80	1.672
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.108**	**-1.446**	**2.303**	**83.70**	**37.98**	**-.4871**
Stddev	2.301	.365	.697	3.46	2.83	.3447
%RSD	109.1	25.22	30.28	4.133	7.448	70.77
#1	-.4889	-1.302	2.129	87.69	41.23	-.7059
#2	-1.093	-1.176	3.070	81.87	36.63	-.0897
#3	-4.742	-1.861	1.709	81.54	36.08	-.6656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152129-H-1-D@5 Acquired: 3/19/2018 20:43:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0708**	**237.2**	**19.28**	**2421.**
Stddev	.1680	1.3	1.60	52.
%RSD	237.4	.5396	8.322	2.136
#1	-.2431	238.6	17.49	2396.
#2	.0926	236.7	20.59	2387.
#3	-.0619	236.2	19.75	2481.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2718.9**	**23688.**	**2235.3**
Stddev	67.2	339.	57.0
%RSD	2.4709	1.4327	2.5512
#1	2641.3	23305.	2169.5
#2	2757.4	23951.	2264.7
#3	2757.9	23807.	2271.6

Sample Name: 460-152025-G-1-B@5 Acquired: 3/19/2018 20:47:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**268.3**	**2.664**	**-.4804**	**103.5**	**.0540**	**22130.**
Stddev	22.4	1.239	.4537	2.7	.1766	47.
%RSD	8.354	46.50	94.45	2.603	326.8	.2125
#1	255.1	1.534	.0369	106.4	-.1080	22090.
#2	255.5	3.989	-.8111	101.1	.2422	22180.
#3	294.1	2.470	-.6669	102.9	.0278	22120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0019**	**24.11**	**4.383**	**1.812**	**5701.**	**7020.**
Stddev	.1020	.98	.442	.619	4.	10.
%RSD	5450.	4.077	10.08	34.16	.0752	.1451
#1	-.0502	25.20	3.904	1.103	5697.	7019.
#2	-.0636	23.27	4.470	2.244	5705.	7031.
#3	.1194	23.88	4.775	2.090	5701.	7010.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152025-G-1-B@5 Acquired: 3/19/2018 20:47:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3256.**	**208.6**	F **263000.**	**6.651**	**11.07**	**1.132**
Stddev	8.	.3	1479.	.077	1.58	2.546
%RSD	.2480	.1522	.5625	1.163	14.26	224.9
#1	3251.	208.2	264200.	6.737	12.84	2.651
#2	3266.	208.8	263300.	6.587	9.810	-1.808
#3	3252.	208.7	261300.	6.629	10.55	2.553
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.711**	**-.1445**	**1.650**	**26.01**	**11.99**	**.5434**
Stddev	2.955	.5766	.355	.84	1.37	.1634
%RSD	172.7	399.0	21.53	3.228	11.42	30.07
#1	-.3800	-.1823	1.968	26.97	13.54	.3549
#2	.4218	-.7013	1.267	25.56	11.49	.6438
#3	5.093	.4501	1.717	25.48	10.94	.6315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152025-G-1-B@5 Acquired: 3/19/2018 20:47:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1317**	**35.55**	**3.232**	**3457.**
Stddev	.9125	.13	.195	88.
%RSD	693.0	.3746	6.034	2.545
#1	1.184	35.63	3.021	3557.
#2	-.3558	35.64	3.271	3393.
#3	-.4335	35.40	3.405	3421.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2707.3**	**23670.**	**2223.2**
Stddev	67.6	82.	3.4
%RSD	2.4974	.34744	.15365
#1	2632.7	23759.	2223.6
#2	2764.6	23596.	2219.7
#3	2724.6	23654.	2226.5

Sample Name: 460-152163-H-1-D@5 Acquired: 3/19/2018 20:54:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**466.8**	**5.289**	**.1885**	**17640.**	**-.0648**	**235000.**
Stddev	23.6	2.452	.5167	597.	.1288	889.
%RSD	5.064	46.37	274.1	3.385	198.7	.3782
#1	446.1	2.470	.7831	17840.	.0486	234200.
#2	461.7	6.926	-.1516	16970.	-.0383	234900.
#3	492.5	6.472	-.0660	18110.	-.2049	236000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.490**	**8.355**	**1.688**	**29.36**	**1854.**	**3824.**
Stddev	.080	.046	.593	.30	26.	50.
%RSD	5.331	.5520	35.11	1.038	1.418	1.299
#1	1.565	8.335	2.368	29.71	1825.	3836.
#2	1.500	8.322	1.279	29.16	1861.	3867.
#3	1.407	8.408	1.417	29.21	1876.	3770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-H-1-D@5 Acquired: 3/19/2018 20:54:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42800.**	**1332.**	**57030.**	**60.41**	**1485.**	**62.57**
Stddev	115.	5.	211.	2.31	44.	.27
%RSD	.2676	.4025	.3707	3.822	2.952	.4261
#1	42710.	1326.	56900.	61.05	1486.	62.54
#2	42750.	1332.	56920.	57.85	1441.	62.32
#3	42930.	1337.	57280.	62.33	1529.	62.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.201**	**-.1143**	**1.586**	**751.3**	F **2123.**	**1.314**
Stddev	2.219	.6449	.984	25.2	4.	.298
%RSD	184.8	564.1	62.04	3.357	.1966	22.65
#1	-3.057	-.0751	2.712	737.3	2125.	1.165
#2	1.256	.5101	1.153	736.2	2127.	1.120
#3	-1.801	-.7780	.8924	780.4	2119.	1.657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					2000.	
Low Limit					-50.00	

Sample Name: 460-152163-H-1-D@5 Acquired: 3/19/2018 20:54:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**138.8**	**642.7**	**6.998**	**14170.**
Stddev	6.3	3.4	.123	552.
%RSD	4.536	.5328	1.754	3.896
#1	134.3	644.7	7.020	14670.
#2	136.1	638.7	6.866	13580.
#3	146.0	644.5	7.109	14270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2658.3**	**23643.**	**2183.1**
Stddev	95.0	170.	16.2
%RSD	3.5736	.71896	.74179
#1	2630.2	23778.	2198.9
#2	2764.2	23701.	2183.8
#3	2580.5	23452.	2166.5

Sample Name: CCV Acquired: 3/19/2018 20:58:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127500.**	**2545.**	**1263.**	**10330.**	**1018.**	**127700.**
Stddev	1380.	17.	1.	21.	13.	356.
%RSD	1.082	.6556	.1003	.2012	1.302	.2783
#1	128900.	2527.	1264.	10310.	1033.	128100.
#2	127400.	2560.	1262.	10350.	1016.	127400.
#3	126100.	2548.	1264.	10340.	1007.	127700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1287.**	**2579.**	**5179.**	**12800.**	**103500.**	**50750.**
Stddev	3.	8.	17.	31.	276.	678.
%RSD	.2140	.3120	.3350	.2419	.2664	1.335
#1	1284.	2571.	5198.	12790.	103800.	51480.
#2	1288.	2579.	5164.	12770.	103200.	50640.
#3	1289.	2587.	5175.	12830.	103500.	50140.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 20:58:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127500.**	**5169.**	**125300.**	**2578.**	**7725.**	**1016.**
Stddev	315.	12.	1338.	5.	9.	4.
%RSD	.2473	.2408	1.068	.1773	.1171	.4128
#1	127200.	5183.	126700.	2573.	7715.	1013.
#2	127700.	5163.	125200.	2582.	7729.	1021.
#3	127700.	5161.	124000.	2579.	7732.	1015.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2557.**	**2594.**	**2567.**	**2593.**	**1035.**	**2579.**
Stddev	14.	10.	7.	1.	2.	7.
%RSD	.5533	.4034	.2753	.0559	.1872	.2725
#1	2540.	2605.	2574.	2592.	1033.	2572.
#2	2565.	2592.	2560.	2592.	1037.	2586.
#3	2564.	2585.	2568.	2594.	1036.	2579.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 20:58:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1033.**	**5127.**	**10370.**	**9855.**
Stddev	2.	52.	13.	142.
%RSD	.2022	1.024	.1218	1.440
#1	1033.	5183.	10370.	9782.
#2	1030.	5118.	10360.	9763.
#3	1034.	5079.	10380.	10020.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2564.5**	**23289.**	**2126.0**
Stddev	20.3	235.	58.1
%RSD	.78999	1.0077	2.7324
#1	2541.6	23018.	2072.7
#2	2580.1	23412.	2117.3
#3	2571.9	23436.	2187.9

Sample Name: 460-152131-F-1-B@5 Acquired: 3/19/2018 18:39:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.844**	**-1.343**	**.4220**	**1.928**	**-.0299**	**2534.**
Stddev	10.72	1.758	.8461	.102	.1437	13.
%RSD	377.1	130.8	200.5	5.263	480.7	.5205
#1	-15.07	-.8324	.3802	2.026	.1012	2546.
#2	4.968	-3.300	1.288	1.823	-.0074	2520.
#3	1.572	.1021	-.4023	1.936	-.1836	2535.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1019**	**.3070**	**-.8780**	**1.027**	**27.02**	**577.2**
Stddev	.0325	.2789	.3179	.779	14.69	67.4
%RSD	31.92	90.82	36.20	75.89	54.37	11.68
#1	-.1393	.0724	-.5142	.1288	43.72	653.2
#2	-.0803	.6153	-1.018	1.525	21.26	553.8
#3	-.0860	.2334	-1.102	1.426	16.08	524.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-F-1-B@5 Acquired: 3/19/2018 18:39:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**245.2**	**29.07**	**166100.**	**.8984**	**1.237**	**.9892**
Stddev	3.7	.21	1239.	.1561	1.164	2.032
%RSD	1.511	.7371	.7456	17.37	94.06	205.4
#1	247.2	29.26	167600.	.7652	1.992	3.043
#2	240.9	29.11	165400.	1.070	1.823	.9449
#3	247.4	28.84	165500.	.8600	-.1030	-1.020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.022**	**-.5202**	**1.095**	**104.5**	**2.683**	**-.3143**
Stddev	1.954	.8507	.225	2.2	.738	.1113
%RSD	191.1	163.5	20.54	2.139	27.49	35.41
#1	-.1753	-1.411	.8461	107.0	3.264	-.2480
#2	.3650	-.4340	1.154	103.0	2.931	-.4428
#3	-3.256	.2840	1.284	103.4	1.853	-.2521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-F-1-B@5 Acquired: 3/19/2018 18:39:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0991**	**18.69**	**.0895**	**135.7**
Stddev	.8320	.33	.1834	10.0
%RSD	839.9	1.739	205.0	7.358
#1	.5388	19.04	.2728	126.7
#2	-.8605	18.63	.0895	134.1
#3	.6189	18.40	-.0940	146.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2711.6**	**23688.**	**2177.8**
Stddev	100.7	131.	9.8
%RSD	3.7147	.55322	.44882
#1	2613.4	23565.	2178.3
#2	2814.7	23674.	2167.8
#3	2706.7	23826.	2187.3

Sample Name: CCB Acquired: 3/19/2018 21:02:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.689**	**-2.340**	**.2071**	**.2333**	**.0603**	**4.578**
Stddev	15.12	.966	.1782	.0670	.0896	1.994
%RSD	226.1	41.31	86.06	28.74	148.7	43.57
#1	22.83	-2.696	.3765	.2717	.1634	5.551
#2	4.387	-1.246	.2236	.1559	.0007	2.283
#3	-7.150	-3.077	.0212	.2723	.0167	5.899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0257**	**.3190**	**-.7583**	**.2817**	**5.160**	**50.95**
Stddev	.0455	.2727	.2792	.0606	10.02	34.71
%RSD	176.9	85.50	36.82	21.50	194.2	68.12
#1	.0268	.6326	-.4528	.3469	-3.967	56.87
#2	-.0498	.1869	-.8217	.2273	15.89	13.66
#3	-.0542	.1374	-1.000	.2707	3.563	82.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 21:02:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.014**	**.0861**	**167.0**	**-.1264**	**-1.309**	**-.7320**
Stddev	3.411	.0270	20.3	.0541	.425	1.587
%RSD	42.56	31.32	12.16	42.82	32.52	216.9
#1	11.92	.0695	153.7	-.1245	-1.083	-1.867
#2	6.498	.0716	190.4	-.1815	-1.799	1.082
#3	5.623	.1172	157.0	-.0733	-1.044	-1.411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.051**	**-.5988**	**.7511**	**-.1950**	**1.581**	**.1108**
Stddev	1.333	.4120	.7821	.3820	1.341	.4017
%RSD	126.9	68.80	104.1	195.9	84.86	362.6
#1	-.0396	-.6336	1.564	.2218	1.962	.4777
#2	2.536	-.1706	.6861	-.2783	2.691	.1732
#3	.6548	-.9923	.0035	-.5284	.0902	-.3185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 21:02:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.6483**	**.1065**	**.6215**	**16.79**
Stddev	.6205	.0828	.2478	12.40
%RSD	95.72	77.81	39.87	73.86
#1	-1.343	.1947	.7303	6.680
#2	-.4519	.0942	.7962	13.07
#3	-.1497	.0304	.3379	30.63
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2839.9**	**25650.**	**2295.1**
Stddev	92.4	307.	61.7
%RSD	3.2541	1.1954	2.6864
#1	2765.6	25551.	2288.8
#2	2810.9	25405.	2236.8
#3	2943.4	25994.	2359.6

Sample Name: 460-152138-F-2-B@5 Acquired: 3/19/2018 21:14:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**288.1**	**2.168**	**-.1568**	**110.1**	**.1667**	**106000.**
Stddev	17.8	.996	.5834	2.9	.0913	405.
%RSD	6.195	45.92	372.0	2.667	54.76	.3821
#1	301.8	2.228	.4338	113.5	.2691	106000.
#2	267.9	3.132	-.1715	108.6	.0938	105600.
#3	294.7	1.144	-.7327	108.3	.1372	106400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0484**	**4.710**	**1.891**	**.7906**	**34.96**	**804.2**
Stddev	.0324	.266	.932	.4422	8.00	13.3
%RSD	66.99	5.657	49.31	55.93	22.88	1.648
#1	.0753	4.402	.8836	.4240	41.04	789.0
#2	.0576	4.857	2.065	.6661	37.95	810.1
#3	.0124	4.870	2.723	1.282	25.90	813.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-F-2-B@5 Acquired: 3/19/2018 21:14:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6263.**	**1521.**	F **277100.**	**7.262**	**5.565**	**1.745**
Stddev	35.	6.	1748.	.453	1.736	.309
%RSD	.5513	.3766	.6307	6.234	31.19	17.69
#1	6258.	1522.	278600.	7.367	7.487	1.405
#2	6232.	1515.	277500.	7.652	5.098	2.007
#3	6300.	1526.	275200.	6.766	4.112	1.824
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.708**	**-.8858**	**2.272**	**45.66**	**18.41**	**-.8755**
Stddev	2.630	.7754	.320	.89	1.92	.2103
%RSD	97.10	87.53	14.07	1.960	10.41	24.02
#1	-1.187	-1.529	2.614	46.70	20.62	-.6619
#2	-5.745	-.0246	2.220	45.18	17.29	-1.082
#3	-1.192	-1.104	1.981	45.11	17.31	-.8824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-F-2-B@5 Acquired: 3/19/2018 21:14:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0770**	**77.62**	**4.334**	**2952.**
Stddev	.8829	.41	.402	42.
%RSD	1147.	.5320	9.285	1.417
#1	-.7943	77.82	3.873	2932.
#2	.9090	77.90	4.617	2924.
#3	-.3456	77.15	4.511	3000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2664.0**	**23402.**	**2180.5**
Stddev	64.2	161.	22.9
%RSD	2.4104	.68971	1.0515
#1	2589.9	23406.	2154.1
#2	2703.4	23561.	2195.7
#3	2698.6	23239.	2191.6

Sample Name: LB 460-504113/1-D@5 Acquired: 3/19/2018 21:22:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.69**	**-2.407**	**.1428**	**.0228**	**.0543**	**2.390**
Stddev	25.80	.955	.6982	.0379	.0850	4.372
%RSD	124.7	39.67	488.9	166.1	156.5	182.9
#1	12.31	-1.479	-.4394	-.0193	.1471	6.159
#2	49.63	-2.354	-.0490	.0335	-.0198	3.414
#3	.1254	-3.387	.9168	.0542	.0357	-2.403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0608**	**.4446**	**-.7499**	**1.045**	**10.23**	**103.5**
Stddev	.0920	.1864	.4706	.286	2.80	33.1
%RSD	151.4	41.92	62.76	27.38	27.38	32.04
#1	-.1670	.3915	-1.223	.8069	8.386	133.3
#2	-.0087	.2906	-.7446	.9651	8.847	67.77
#3	-.0066	.6518	-.2820	1.362	13.45	109.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504113/1-D@5 Acquired: 3/19/2018 21:22:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.169**	**.0121**	F **262700.**	**2.394**	**-.4642**	**.9765**
Stddev	3.429	.1131	3108.	.130	.3535	.2845
%RSD	158.1	934.7	1.183	5.448	76.16	29.14
#1	5.251	.1071	259100.	2.264	-.8686	.7210
#2	2.781	.0422	264000.	2.392	-.2139	1.283
#3	-1.526	-.1130	264900.	2.525	-.3101	.9255
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2722**	**.0124**	**.5273**	**.5071**	**2.144**	**-.5607**
Stddev	.3779	1.070	1.036	.2680	.626	.0713
%RSD	138.8	8624.	196.4	52.86	29.21	12.71
#1	-.4108	1.109	1.006	.2274	1.448	-.6424
#2	.1554	-.0425	1.237	.7617	2.323	-.5109
#3	-.5613	-1.029	-.6612	.5321	2.662	-.5290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504113/1-D@5 Acquired: 3/19/2018 21:22:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2324**	**.0416**	**-.3120**	**24.97**
Stddev	.8684	.0767	.0333	46.92
%RSD	373.7	184.5	10.67	187.9
#1	.2696	.1205	-.3151	73.77
#2	1.082	.0368	-.2773	-19.82
#3	-.6540	-.0326	-.3437	20.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2666.7**	**23368.**	**2220.6**
Stddev	25.2	224.	40.1
%RSD	.94497	.96050	1.8067
#1	2647.3	23627.	2264.2
#2	2695.2	23224.	2185.3
#3	2657.6	23254.	2212.4

Sample Name: 460-152131-F-2-B@5 Acquired: 3/19/2018 18:43:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**130.0**	**-2.032**	**.9399**	**54.79**	**-.1293**	**48290.**
Stddev	28.4	1.364	.8101	.84	.1589	303.
%RSD	21.81	67.12	86.19	1.537	122.9	.6274
#1	138.1	-.6982	.2155	54.47	.0297	47980.
#2	98.50	-1.974	.7896	54.15	-.1294	48590.
#3	153.5	-3.424	1.815	55.74	-.2881	48300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.93**	**1.440**	**-.2597**	**2.143**	**3155.**	**11290.**
Stddev	.10	.102	.2742	.582	32.	555.
%RSD	.9253	7.092	105.6	27.14	1.000	4.916
#1	10.83	1.349	-.1629	1.914	3138.	10650.
#2	10.94	1.551	-.0470	1.711	3192.	11550.
#3	11.03	1.422	-.5691	2.804	3136.	11670.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-F-2-B@5 Acquired: 3/19/2018 18:43:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9698.**	**893.1**	F **2699000.**	**7.920**	**-.0618**	**2.608**
Stddev	69.	4.1	187900.	.427	.6204	1.046
%RSD	.7132	.4546	6.960	5.394	1003.	40.12
#1	9621.	888.7	2908000.	8.177	-.6609	3.552
#2	9756.	896.7	2646000.	7.427	.5778	2.789
#3	9716.	893.7	2544000.	8.156	-.1024	1.483
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.112**	**-1.092**	**1.128**	**2518.**	**17.38**	**-.9385**
Stddev	1.502	.979	.608	25.	.43	.2883
%RSD	135.1	89.60	53.94	.9838	2.462	30.72
#1	-2.681	-2.032	.7877	2505.	17.47	-.7446
#2	-.9673	-1.167	1.830	2502.	16.91	-1.270
#3	.3127	-.0787	.7655	2547.	17.75	-.8010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-F-2-B@5 Acquired: 3/19/2018 18:43:49 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.9776**	**332.8**	**2.413**	**75.29**
Stddev	1.191	1.9	.245	23.70
%RSD	121.9	.5682	10.17	31.48
#1	.3950	331.0	2.147	99.66
#2	-1.744	332.6	2.631	52.33
#3	-1.584	334.7	2.461	73.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2377.3**	**19544.**	**2109.4**
Stddev	7.8	112.	19.0
%RSD	.32912	.57450	.90087
#1	2375.3	19536.	2130.4
#2	2386.0	19435.	2093.3
#3	2370.7	19659.	2104.5

Sample Name: LB 460-504375/1-B@5 Acquired: 3/19/2018 21:34:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15.61**	**-2.140**	**-.2283**	**-.0394**	**.0286**	**-1.102**
Stddev	6.87	.871	.3622	.1242	.0529	3.673
%RSD	44.00	40.69	158.6	315.5	184.8	333.3
#1	15.14	-2.439	.1514	-.0859	.0873	-4.636
#2	8.994	-1.159	-.2664	.1014	.0139	2.696
#3	22.71	-2.822	-.5700	-.1336	-.0154	-1.366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2186**	**.1807**	**-.9428**	**-.3505**	**26.84**	**88.36**
Stddev	.0465	.2542	.3363	.5637	11.21	33.27
%RSD	21.28	140.7	35.67	160.9	41.74	37.65
#1	-.2670	.0029	-.7381	-.7766	14.17	50.72
#2	-.2144	.4718	-1.331	.2888	35.45	113.9
#3	-.1743	.0673	-.7592	-.5636	30.90	100.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504375/1-B@5 Acquired: 3/19/2018 21:34:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.970**	**.2076**	**275.8**	**-.2165**	**.2722**	**-.4061**
Stddev	3.889	.1420	53.3	.1826	2.028	.8608
%RSD	97.94	68.38	19.33	84.33	745.2	212.0
#1	.2746	.1052	308.4	-.4126	.3757	-.4061
#2	8.027	.1480	304.8	-.0512	-1.806	-1.267
#3	3.610	.3697	214.3	-.1858	2.247	.4547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.606**	**-1.010**	**.9431**	**.4868**	**2.686**	**-.9337**
Stddev	2.515	.721	1.006	.1516	1.803	.1108
%RSD	96.51	71.36	106.6	31.13	67.14	11.86
#1	-1.977	-.1833	-.0870	.3966	.6129	-.9540
#2	-.4654	-1.341	1.923	.4020	3.550	-.8142
#3	-5.376	-1.507	.9936	.6618	3.894	-1.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504375/1-B@5 Acquired: 3/19/2018 21:34:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1520**	**.0288**	**-.1368**	**61.34**
Stddev	.7502	.0543	.1989	27.66
%RSD	493.6	188.4	145.4	45.10
#1	-.6850	-.0133	-.0798	45.63
#2	.7639	.0901	.0273	93.28
#3	.3771	.0096	-.3580	45.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2762.7**	**25637.**	**2280.4**
Stddev	19.8	336.	37.6
%RSD	.71558	1.3107	1.6502
#1	2782.4	25919.	2323.8
#2	2762.8	25726.	2260.7
#3	2742.9	25265.	2256.7

Sample Name: CCB Acquired: 3/19/2018 21:42:12 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**35.91**	**1.201**	**.2241**	**.2839**	**.2893**	**3.685**
Stddev	33.58	.967	.1916	.0817	.1073	4.653
%RSD	93.52	80.46	85.48	28.79	37.11	126.3
#1	73.74	2.212	.0273	.3529	.3913	1.552
#2	9.640	1.106	.2351	.3052	.2992	9.022
#3	24.34	.2861	.4100	.1936	.1773	.4807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1008**	**.4002**	**-.8319**	**-.4990**	**7.247**	**16.59**
Stddev	.0745	.1610	.1932	.2997	14.45	23.74
%RSD	73.88	40.23	23.22	60.06	199.3	143.1
#1	-.0636	.3146	-.6420	-.8440	-8.832	13.94
#2	-.1866	.3002	-1.028	-.3505	11.44	-5.704
#3	-.0523	.5860	-.8254	-.3026	19.13	41.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 21:42:12 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.994**	**.1248**	**154.9**	**.1291**	**.9140**	**.4360**
Stddev	1.888	.0577	48.3	.1020	1.449	1.232
%RSD	27.00	46.25	31.15	79.04	158.5	282.5
#1	8.252	.1907	207.9	.2003	2.109	1.169
#2	4.822	.0831	143.2	.1747	-.6969	-.9859
#3	7.906	.1007	113.5	.0122	1.330	1.124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.610**	**.2845**	**1.112**	**-.1448**	**1.010**	**.2201**
Stddev	1.819	.0305	.945	.1412	1.378	.5287
%RSD	69.70	10.73	85.00	97.47	136.5	240.2
#1	.5230	.3187	2.138	-.0727	.3863	.8295
#2	3.447	.2750	.2764	-.3075	2.590	-.0519
#3	3.860	.2599	.9217	-.0543	.0529	-.1172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 21:42:12 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2354**	**.8758**	**.5429**	**15.60**
Stddev	.6581	1.408	.3357	13.10
%RSD	279.5	160.8	61.84	83.93
#1	.9186	2.498	.9061	19.54
#2	-.3943	-.0265	.4789	26.28
#3	.1820	.1559	.2438	.9911
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2808.8**	**25460.**	**2260.8**
Stddev	86.1	265.	43.8
%RSD	3.0638	1.0419	1.9370
#1	2767.9	25763.	2311.4
#2	2750.9	25343.	2235.5
#3	2907.7	25273.	2235.5

Sample Name: CCVL Acquired: 3/19/2018 21:46:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**215.6**	**15.88**	**10.04**	**213.7**	**2.060**	**5221.**
Stddev	6.8	2.00	.06	6.6	.028	43.
%RSD	3.163	12.57	.6143	3.079	1.359	.8315
#1	218.9	16.25	10.08	218.9	2.076	5269.
#2	207.8	17.66	9.972	216.0	2.027	5208.
#3	220.2	13.72	10.08	206.3	2.076	5186.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.163**	**54.62**	**9.462**	**25.44**	**166.2**	**5082.**
Stddev	.186	1.35	.535	.18	12.6	20.
%RSD	4.478	2.476	5.655	.7084	7.570	.3911
#1	4.361	55.41	9.796	25.65	179.7	5095.
#2	4.135	55.38	8.845	25.35	154.7	5059.
#3	3.991	53.06	9.744	25.33	164.3	5092.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 21:46:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5352.**	**16.51**	**5159.**	**44.68**	**11.05**	**21.90**
Stddev	57.	.18	71.	1.11	1.06	2.46
%RSD	1.065	1.080	1.385	2.485	9.567	11.21
#1	5417.	16.72	5150.	45.22	9.922	22.61
#2	5326.	16.42	5235.	45.43	11.22	23.92
#3	5313.	16.40	5093.	43.41	12.02	19.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.90**	**20.77**	**55.22**	**33.42**	F **28.00**	**21.67**
Stddev	1.38	1.38	1.90	1.10	2.11	.71
%RSD	6.618	6.650	3.447	3.279	7.547	3.280
#1	21.03	19.23	55.33	33.41	27.15	21.95
#2	19.45	21.90	53.27	34.52	30.40	22.19
#3	22.21	21.18	57.07	32.33	26.44	20.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 21:46:14 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**55.35**	**20.49**	**22.56**	F **-197.6**
Stddev	1.26	.04	.17	20.6
%RSD	2.273	.1941	.7345	10.44
#1	54.75	20.45	22.53	-192.7
#2	56.79	20.53	22.41	-179.9
#3	54.50	20.48	22.73	-220.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2800.5**	**25305.**	**2232.8**
Stddev	95.3	377.	72.9
%RSD	3.4029	1.4913	3.2628
#1	2740.9	24990.	2201.1
#2	2750.2	25201.	2181.2
#3	2910.4	25723.	2316.1

Sample Name: 460-152131-J-3-B@5 Acquired: 3/19/2018 18:47:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.17**	**.5708**	**-.0839**	**2.630**	**.0424**	**9355.**
Stddev	6.68	1.895	.0945	.103	.0573	11.
%RSD	14.17	332.1	112.7	3.933	135.3	.1214
#1	54.35	-1.618	-.0807	2.561	.0842	9342.
#2	41.13	1.634	-.1799	2.749	.0658	9364.
#3	46.02	1.696	.0090	2.580	-.0230	9360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1152**	**1.680**	**-1.052**	**.4530**	**51.13**	**2665.**
Stddev	.0461	.063	.115	.1929	27.72	83.
%RSD	40.04	3.756	10.91	42.58	54.21	3.102
#1	-.1028	1.696	-1.085	.4109	24.17	2756.
#2	-.0765	1.611	-1.146	.6634	79.55	2644.
#3	-.1662	1.734	-.9241	.2846	49.68	2594.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-J-3-B@5 Acquired: 3/19/2018 18:47:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3655.**	**10.85**	**17120.**	**1.358**	**2.927**	**2.217**
Stddev	28.	.13	82.	.467	1.479	.967
%RSD	.7588	1.172	.4805	34.42	50.51	43.60
#1	3624.	10.89	17090.	1.897	3.840	3.154
#2	3676.	10.94	17220.	1.100	1.221	2.274
#3	3665.	10.70	17070.	1.076	3.720	1.223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1743**	**-.3280**	**3.462**	**3.251**	**8.015**	**1.105**
Stddev	2.129	.4777	.108	.126	.292	.232
%RSD	1221.	145.7	3.129	3.864	3.646	20.97
#1	-1.449	.2233	3.398	3.344	7.716	1.205
#2	2.585	-.6208	3.588	3.300	8.031	.8401
#3	-.6129	-.5863	3.401	3.108	8.300	1.270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152131-J-3-B@5 Acquired: 3/19/2018 18:47:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.8674**	**21.75**	**1.042**	**1261.**
Stddev	.5304	.11	.329	46.
%RSD	61.15	.5068	31.52	3.649
#1	-1.098	21.78	.7288	1263.
#2	-.2608	21.85	1.384	1214.
#3	-1.244	21.63	1.014	1306.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2835.4**	**26036.**	**2383.6**
Stddev	50.2	152.	10.7
%RSD	1.7689	.58272	.44912
#1	2818.3	26199.	2390.9
#2	2891.9	26010.	2371.3
#3	2796.0	25899.	2388.6

Sample Name: LB 460-504113/1-C@5 Acquired: 3/19/2018 18:55:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-7.007**	**-2.677**	**.0961**	**.0093**	**.0476**	**-9.005**
Stddev	16.23	1.875	.4046	.0619	.2335	3.168
%RSD	231.6	70.05	421.2	668.9	490.1	35.18
#1	11.21	-4.812	-.2920	-.0401	.1310	-12.54
#2	-12.30	-1.299	.0647	-.0108	.2280	-6.431
#3	-19.93	-1.919	.5155	.0787	-.2161	-8.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1756**	**.1713**	**-.6289**	**.2660**	**4.780**	**192.6**
Stddev	.0741	.3162	.8409	.3347	7.069	37.2
%RSD	42.23	184.6	133.7	125.8	147.9	19.32
#1	-.1280	.5340	-1.554	.2144	.2522	208.6
#2	-.2610	-.0461	-.4217	.6234	12.93	219.1
#3	-.1377	.0260	.0891	-.0399	1.163	150.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504113/1-C@5 Acquired: 3/19/2018 18:55:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.314**	**.0665**	F **261100.**	**2.239**	**.8992**	**.2399**
Stddev	5.462	.0387	2735.	.523	.4652	1.044
%RSD	102.8	58.25	1.048	23.35	51.73	435.3
#1	5.731	.0235	264000.	2.155	.8778	.9494
#2	10.56	.0775	258600.	2.798	1.375	-.9592
#3	-.3454	.0985	260700.	1.763	.4451	.7294
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4660**	**-1.630**	**.5297**	**.4860**	**1.918**	**-.5427**
Stddev	2.094	.519	.3655	.0836	.967	.2684
%RSD	449.4	31.84	69.00	17.19	50.42	49.46
#1	2.884	-2.228	.8658	.5409	1.551	-.2342
#2	-.7420	-1.311	.1406	.3899	3.014	-.7231
#3	-.7443	-1.350	.5826	.5273	1.187	-.6708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504113/1-C@5 Acquired: 3/19/2018 18:55:54 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0313**	**.0267**	**-.2396**	**25.92**
Stddev	.3436	.0666	.1018	26.87
%RSD	1098.	249.7	42.51	103.7
#1	-.4084	-.0406	-.2955	-3.925
#2	.2639	.0926	-.3012	33.49
#3	.0507	.0281	-.1220	48.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2657.5**	**23621.**	**2244.3**
Stddev	39.8	222.	28.6
%RSD	1.4974	.94132	1.2762
#1	2683.6	23813.	2244.9
#2	2611.7	23673.	2272.6
#3	2677.2	23378.	2215.4

Sample Name: LB 460-504298/1-B@5 Acquired: 3/19/2018 18:59:56 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.706**	**1.083**	**.2220**	**.0172**	**.0292**	**-.8699**
Stddev	6.855	.974	.4195	.0521	.0993	4.369
%RSD	253.3	89.96	189.0	303.0	340.1	502.3
#1	.7380	.4698	-.1861	-.0359	-.0284	-5.914
#2	-2.949	2.206	.2002	.0681	-.0279	1.749
#3	10.33	.5724	.6519	.0193	.1438	1.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0862**	**.2373**	**-1.444**	**-.5657**	**25.16**	**342.2**
Stddev	.0331	.0620	.353	.8468	13.54	32.7
%RSD	38.40	26.14	24.43	149.7	53.80	9.564
#1	-.0484	.3084	-1.165	-1.531	40.65	330.5
#2	-.1100	.1944	-1.841	.0509	19.27	379.2
#3	-.1003	.2090	-1.327	-.2167	15.57	316.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504298/1-B@5 Acquired: 3/19/2018 18:59:56 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.749**	**.0436**	**309.9**	**-.2840**	**-.1076**	**1.544**
Stddev	5.955	.0564	35.7	.3748	.7671	.891
%RSD	125.4	129.3	11.52	131.9	713.1	57.67
#1	4.605	.0362	344.5	.0655	.4685	1.497
#2	-1.133	.1034	312.1	-.2378	.1871	.6784
#3	10.77	-.0087	273.2	-.6798	-.9783	2.458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9456**	**-.4776**	**1.209**	**.1763**	**-2.902**	**-.7643**
Stddev	1.276	.7166	1.151	.0570	2.137	.1968
%RSD	134.9	150.0	95.22	32.34	73.62	25.75
#1	-1.143	.2737	2.184	.1540	-3.688	-.9139
#2	-2.111	-.5528	1.503	.1338	-.4839	-.8376
#3	.4174	-1.154	-.0608	.2411	-4.534	-.5414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504298/1-B@5 Acquired: 3/19/2018 18:59:56 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0916**	**.0221**	**-.2602**	**-44.55**
Stddev	.4222	.0536	.0908	24.18
%RSD	461.1	242.7	34.89	54.27
#1	.3959	-.0332	-.2737	-65.11
#2	-.3415	.0256	-.3434	-17.91
#3	-.3291	.0739	-.1634	-50.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2864.4**	**25875.**	**2296.9**
Stddev	85.2	738.	72.9
%RSD	2.9758	2.8539	3.1723
#1	2813.7	25026.	2216.7
#2	2816.6	26369.	2314.8
#3	2962.8	26230.	2359.1

Sample Name: 460-151968-K-1-G DU Acquired: 3/19/2018 19:11:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44.49**	**5.428**	**.7309**	**4.431**	**.0816**	**3924.**
Stddev	11.82	.798	.6110	.169	.2252	51.
%RSD	26.57	14.71	83.61	3.822	276.0	1.312
#1	54.83	6.253	1.253	4.261	.0506	3880.
#2	31.61	4.659	.8810	4.599	.3208	3911.
#3	47.04	5.373	.0587	4.432	-.1265	3980.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15.17**	**182.2**	**11.58**	**8.557**	**25.37**	**1996.**
Stddev	.20	1.9	.70	.279	8.90	497.
%RSD	1.287	1.038	6.019	3.256	35.06	24.91
#1	15.39	184.2	11.10	8.310	34.62	1470.
#2	15.03	180.4	11.27	8.859	16.88	2059.
#3	15.08	182.2	12.38	8.502	24.61	2458.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-G DU Acquired: 3/19/2018 19:11:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**852.8**	**2.225**	F **2382000.**	**34.92**	**8.106**	**18.66**
Stddev	26.9	.128	142900.	.61	1.447	2.04
%RSD	3.156	5.770	6.002	1.755	17.85	10.92
#1	821.9	2.308	2539000.	35.60	9.745	19.64
#2	865.0	2.077	2346000.	34.42	7.008	16.32
#3	871.4	2.290	2260000.	34.74	7.564	20.03
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**543.3**	**-2.665**	**.5328**	**7.993**	**344.3**	**.3804**
Stddev	3.8	1.110	.8378	.298	3.6	.1862
%RSD	.6966	41.64	157.3	3.728	1.042	48.94
#1	540.2	-1.389	.1802	7.724	340.4	.5134
#2	547.5	-3.202	1.489	8.313	345.1	.4601
#3	542.3	-3.404	-.0711	7.941	347.5	.1676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-G DU Acquired: 3/19/2018 19:11:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.3088**	**18.47**	**.5727**	**268.0**
Stddev	.6288	.13	.1088	67.7
%RSD	203.6	.6991	19.00	25.26
#1	-1.028	18.38	.6852	251.0
#2	-.0384	18.41	.4680	210.4
#3	.1396	18.62	.5649	342.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2477.1**	**20323.**	**2159.8**
Stddev	30.1	127.	7.5
%RSD	1.2137	.62534	.34625
#1	2442.4	20466.	2156.7
#2	2493.5	20281.	2168.3
#3	2495.3	20223.	2154.3

Sample Name: CCV Acquired: 3/19/2018 19:15:54 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127100.**	**2545.**	**1261.**	**10360.**	**1022.**	**126600.**
Stddev	408.	13.	2.	32.	5.	43.
%RSD	.3212	.5093	.1833	.3060	.5070	.0340
#1	127500.	2541.	1262.	10370.	1027.	126500.
#2	126700.	2559.	1263.	10380.	1017.	126600.
#3	127100.	2534.	1258.	10320.	1021.	126600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1289.**	**2574.**	**5148.**	**12830.**	**102700.**	**50590.**
Stddev	4.	7.	7.	20.	41.	178.
%RSD	.2992	.2839	.1362	.1562	.0400	.3510
#1	1290.	2574.	5156.	12810.	102600.	50670.
#2	1291.	2581.	5143.	12840.	102700.	50390.
#3	1284.	2566.	5145.	12840.	102700.	50710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 19:15:54 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**125900.**	**5126.**	**118500.**	**2587.**	**7741.**	**1028.**
Stddev	353.	1.	2135.	9.	25.	5.
%RSD	.2806	.0149	1.802	.3491	.3171	.5027
#1	125600.	5126.	116500.	2591.	7748.	1030.
#2	126000.	5125.	118200.	2594.	7761.	1032.
#3	126300.	5127.	120800.	2577.	7713.	1022.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2559.**	**2591.**	**2552.**	**2586.**	**1034.**	**2591.**
Stddev	15.	14.	2.	10.	4.	9.
%RSD	.5944	.5511	.0599	.3989	.3935	.3281
#1	2569.	2604.	2553.	2589.	1037.	2594.
#2	2567.	2594.	2551.	2594.	1037.	2597.
#3	2541.	2576.	2553.	2574.	1030.	2581.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 19:15:54 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1033.**	**5125.**	**10320.**	**10050.**
Stddev	5.	23.	12.	19.
%RSD	.5062	.4540	.1152	.1858
#1	1035.	5146.	10310.	10070.
#2	1037.	5100.	10320.	10050.
#3	1027.	5130.	10340.	10040.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2583.2**	**23752.**	**2183.1**
Stddev	10.4	100.	7.6
%RSD	.40449	.42002	.34925
#1	2576.6	23647.	2174.9
#2	2577.6	23764.	2184.5
#3	2595.2	23846.	2190.0

Sample Name: 460-151968-K-1-F@5 Acquired: 3/19/2018 19:27:33 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30.80**	**5.605**	**.6328**	**4.219**	**-.0592**	**3935.**
Stddev	5.12	.528	.2760	.054	.0188	52.
%RSD	16.63	9.416	43.61	1.284	31.71	1.327
#1	30.12	5.656	.7916	4.273	-.0687	3876.
#2	36.22	5.054	.3141	4.220	-.0714	3974.
#3	26.05	6.106	.7927	4.164	-.0376	3955.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14.97**	**179.9**	**10.51**	**9.900**	**29.39**	**1917.**
Stddev	.02	1.9	1.45	.468	14.10	465.
%RSD	.1609	1.049	13.82	4.729	47.98	24.26
#1	14.94	179.8	12.12	9.383	40.98	1417.
#2	14.98	181.9	10.12	10.29	33.51	1996.
#3	14.99	178.1	9.294	10.02	13.69	2337.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-F@5 Acquired: 3/19/2018 19:27:33 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**845.7**	**2.114**	F **2343000.**	**34.30**	**8.312**	**17.77**
Stddev	20.5	.071	202000.	.15	1.004	1.95
%RSD	2.424	3.350	8.622	.4290	12.08	10.98
#1	824.2	2.052	2576000.	34.23	7.853	18.90
#2	865.0	2.100	2222000.	34.46	9.463	18.89
#3	848.0	2.191	2230000.	34.20	7.619	15.51
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**542.3**	**-1.871**	**.9786**	**8.012**	**345.7**	**.3147**
Stddev	7.0	.663	.3861	.426	3.3	.1373
%RSD	1.300	35.46	39.45	5.319	.9679	43.62
#1	536.1	-1.553	.5703	8.362	342.3	.4054
#2	549.9	-1.426	1.338	8.137	348.9	.1568
#3	540.8	-2.634	1.028	7.538	346.0	.3820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-F@5 Acquired: 3/19/2018 19:27:33 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1057**	**18.37**	**.4369**	**292.9**
Stddev	.7932	.15	.0216	60.9
%RSD	750.6	.8008	4.942	20.80
#1	.6943	18.20	.4382	256.0
#2	-.1194	18.45	.4578	363.2
#3	-.8919	18.47	.4147	259.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2512.2**	**20293.**	**2177.3**
Stddev	17.6	148.	25.6
%RSD	.70199	.72828	1.1754
#1	2502.6	20438.	2157.8
#2	2501.5	20298.	2206.3
#3	2532.6	20142.	2167.9

Sample Name: sd 460-151968-K-1-F Acquired: 3/19/2018 19:31:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**32.84**	**.4903**	**-.1766**	**.8228**	**.0824**	**728.6**
Stddev	6.07	1.130	.7861	.0412	.3484	4.6
%RSD	18.47	230.6	445.0	5.006	423.0	.6284
#1	27.91	1.300	-1.043	.8588	-.0591	730.1
#2	31.00	-.8011	.0206	.8317	.4792	732.3
#3	39.62	.9717	.4920	.7779	-.1731	723.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.915**	**36.77**	**1.035**	**2.261**	**5.295**	**499.6**
Stddev	.047	.50	.260	.261	9.236	48.8
%RSD	1.609	1.361	25.17	11.54	174.4	9.759
#1	2.967	37.12	1.028	2.109	2.583	528.4
#2	2.875	36.19	.7776	2.563	15.58	527.2
#3	2.904	36.99	1.298	2.112	-2.281	443.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151968-K-1-F Acquired: 3/19/2018 19:31:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**171.7**	**.3836**	F **545700.**	**7.037**	**2.038**	**4.612**
Stddev	7.4	.0585	7692.	.461	1.010	.462
%RSD	4.327	15.25	1.410	6.549	49.55	10.01
#1	179.1	.4502	537500.	7.248	2.584	4.130
#2	171.7	.3599	546700.	6.509	.8728	5.050
#3	164.2	.3406	552800.	7.355	2.658	4.655
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**92.15**	**.4742**	**.3679**	**2.079**	**64.89**	**-.2557**
Stddev	1.08	.6803	.9565	.345	1.36	.0656
%RSD	1.173	143.5	260.0	16.61	2.102	25.66
#1	92.45	.3047	-.3005	2.190	64.27	-.3250
#2	93.04	1.223	1.464	2.354	66.46	-.2477
#3	90.95	-.1054	-.0593	1.691	63.95	-.1945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151968-K-1-F Acquired: 3/19/2018 19:31:40 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.6314**	**3.492**	**-.1969**	**93.53**
Stddev	1.293	.044	.0989	20.40
%RSD	204.7	1.263	50.24	21.81
#1	1.949	3.441	-.2764	116.1
#2	-.6348	3.518	-.0861	88.19
#3	.5800	3.516	-.2280	76.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2719.9**	**23273.**	**2347.6**
Stddev	46.8	225.	37.7
%RSD	1.7212	.96545	1.6080
#1	2701.2	23488.	2382.7
#2	2773.2	23292.	2352.4
#3	2685.3	23040.	2307.7

Sample Name: 460-152063-G-5-B@5 Acquired: 3/19/2018 19:43:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**611.6**	**1.604**	**.4367**	**127.4**	**.0922**	**26960.**
Stddev	10.1	.389	.4049	1.2	.0909	329.
%RSD	1.643	24.26	92.71	.9291	98.52	1.221
#1	600.0	1.950	-.0298	126.1	.1475	26620.
#2	616.8	1.680	.6433	127.8	.1418	27010.
#3	618.0	1.183	.6967	128.4	-.0126	27270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4701**	**3.254**	**.7292**	**12.08**	**651.9**	**1217.**
Stddev	.0430	.118	.5734	.14	13.5	10.
%RSD	9.145	3.618	78.64	1.166	2.073	.8066
#1	.4229	3.158	.0957	12.15	636.6	1223.
#2	.4801	3.219	1.213	11.92	656.7	1223.
#3	.5071	3.385	.8792	12.17	662.3	1206.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152063-G-5-B@5 Acquired: 3/19/2018 19:43:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2039.**	**483.0**	**215800.**	**3.300**	**164.3**	**.6445**
Stddev	25.	5.5	6020.	.048	2.6	2.559
%RSD	1.246	1.139	2.789	1.450	1.575	397.1
#1	2014.	477.1	209200.	3.344	161.3	.8995
#2	2040.	484.1	217200.	3.306	165.8	-2.033
#3	2065.	487.9	221100.	3.249	165.8	3.067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.427**	**-.1589**	**2.714**	**75.27**	**20.06**	**-.2566**
Stddev	1.972	1.030	1.191	2.26	1.68	.4285
%RSD	138.2	648.3	43.90	2.997	8.353	167.0
#1	-2.243	.8082	3.219	72.71	18.34	-.1475
#2	-2.860	-1.242	3.569	76.16	20.16	-.7291
#3	.8224	-.0425	1.353	76.95	21.68	.1068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152063-G-5-B@5 Acquired: 3/19/2018 19:43:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.5757**	**124.6**	**26.07**	**1578.**
Stddev	.2723	.9	.88	49.
%RSD	47.29	.7583	3.379	3.113
#1	.4075	123.5	25.09	1634.
#2	.4299	125.1	26.32	1541.
#3	.8899	125.2	26.80	1559.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2678.4**	**24356.**	**2279.3**
Stddev	21.2	252.	19.7
%RSD	.79315	1.0351	.86348
#1	2686.0	24625.	2294.1
#2	2654.4	24316.	2286.9
#3	2694.7	24125.	2257.0

Sample Name: 460-152009-A-1-D@5 Acquired: 3/19/2018 19:55:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26.65**	**-2.265**	**-.5714**	**2.797**	**.0870**	**467.2**
Stddev	29.22	1.187	.7342	.100	.0496	6.5
%RSD	109.6	52.43	128.5	3.565	57.01	1.393
#1	52.96	-2.029	-1.334	2.906	.0534	462.8
#2	-4.793	-3.552	-.5108	2.774	.1440	464.0
#3	31.79	-1.213	.1307	2.711	.0637	474.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3332**	**1.467**	**43.92**	**5.046**	**24.83**	**299.2**
Stddev	.0936	.090	.27	.844	28.28	54.4
%RSD	28.11	6.133	.6057	16.72	113.9	18.20
#1	.4365	1.412	43.63	5.254	.9814	349.7
#2	.2538	1.419	44.15	5.766	56.07	241.5
#3	.3093	1.571	43.97	4.118	17.42	306.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152009-A-1-D@5 Acquired: 3/19/2018 19:55:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**67.45**	**9.116**	F **252800.**	**2.505**	**1.697**	**.3612**
Stddev	4.34	.121	884.	.200	1.880	1.242
%RSD	6.431	1.331	.3498	7.993	110.8	344.0
#1	72.25	9.062	252000.	2.518	3.841	-1.064
#2	66.28	9.254	252600.	2.698	.3342	.9309
#3	63.82	9.030	253700.	2.298	.9147	1.217
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.316**	**-.3242**	**.4731**	**9.723**	**13.10**	**-.6968**
Stddev	1.120	1.377	.1611	.374	2.27	.1589
%RSD	17.73	424.8	34.05	3.844	17.33	22.81
#1	5.197	-1.013	.6568	9.869	15.73	-.7361
#2	7.437	-1.221	.3561	10.00	11.82	-.5219
#3	6.313	1.261	.4063	9.298	11.76	-.8325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152009-A-1-D@5 Acquired: 3/19/2018 19:55:20 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7131**	**1.411**	**-.1517**	**136.5**
Stddev	.3180	.013	.2126	41.5
%RSD	44.60	.8863	140.2	30.40
#1	.6756	1.426	.0918	170.4
#2	1.048	1.404	-.3013	149.0
#3	.4154	1.404	-.2454	90.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2739.7**	**24124.**	**2305.9**
Stddev	88.6	349.	40.9
%RSD	3.2351	1.4477	1.7754
#1	2661.6	24525.	2353.1
#2	2836.1	23964.	2284.1
#3	2721.5	23884.	2280.5

Sample Name: CCV Acquired: 3/19/2018 20:07:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**126200.**	**2565.**	**1259.**	**10400.**	**1005.**	**127200.**
Stddev	156.	28.	5.	91.	3.	1249.
%RSD	.1235	1.102	.3717	.8778	.3048	.9821
#1	126200.	2553.	1258.	10370.	1001.	127300.
#2	126400.	2545.	1264.	10320.	1005.	128400.
#3	126100.	2597.	1255.	10500.	1008.	125900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1297.**	**2603.**	**5169.**	**12860.**	**103200.**	**50020.**
Stddev	12.	24.	51.	35.	812.	128.
%RSD	.9005	.9371	.9858	.2706	.7866	.2568
#1	1294.	2592.	5171.	12830.	103300.	49910.
#2	1288.	2587.	5219.	12900.	104000.	50160.
#3	1310.	2631.	5117.	12860.	102300.	49990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 20:07:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**128200.**	**5125.**	**120100.**	**2591.**	**7792.**	**1026.**
Stddev	1108.	34.	673.	24.	67.	14.
%RSD	.8641	.6718	.5605	.9339	.8541	1.327
#1	128200.	5124.	119400.	2582.	7780.	1025.
#2	129300.	5161.	120600.	2572.	7732.	1013.
#3	127100.	5092.	120500.	2618.	7864.	1040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2576.**	**2603.**	**2566.**	**2614.**	**1036.**	**2595.**
Stddev	40.	26.	18.	15.	15.	26.
%RSD	1.550	1.002	.7139	.5703	1.489	.9977
#1	2560.	2604.	2563.	2615.	1028.	2585.
#2	2547.	2577.	2586.	2598.	1026.	2575.
#3	2622.	2629.	2550.	2628.	1053.	2624.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 20:07:27 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1042.**	**5057.**	**10370.**	**10070.**
Stddev	8.	28.	51.	226.
%RSD	.8118	.5547	.4882	2.245
#1	1044.	5048.	10350.	9987.
#2	1032.	5035.	10430.	9902.
#3	1049.	5088.	10330.	10330.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2557.7**	**23476.**	**2161.9**
Stddev	21.4	527.	69.9
%RSD	.83745	2.2465	3.2324
#1	2534.7	23295.	2133.6
#2	2561.0	23062.	2110.5
#3	2577.2	24070.	2241.4

Sample Name: CCB Acquired: 3/19/2018 20:11:05 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.861**	**-.3963**	**.4589**	**.1312**	**.0161**	**.0323**
Stddev	14.62	1.158	.1584	.1344	.0551	2.585
%RSD	300.6	292.3	34.51	102.4	341.4	8003.
#1	21.74	.8337	.3048	.2857	.0219	.6554
#2	-3.778	-.5564	.4506	.0417	.0681	2.249
#3	-3.374	-1.466	.6212	.0662	-.0416	-2.807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1158**	**.2198**	**-.7697**	**-.4100**	**12.38**	**96.41**
Stddev	.2135	.3355	.1716	.7610	17.01	35.34
%RSD	184.4	152.6	22.29	185.6	137.4	36.66
#1	.0228	-.0543	-.7835	.3113	25.65	128.4
#2	-.0084	.5939	-.9340	-1.205	18.29	58.47
#3	-.3616	.1199	-.5917	-.3362	-6.798	102.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 20:11:05 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.411**	**.0752**	**414.0**	**-.0415**	**-.1374**	**1.090**
Stddev	2.256	.1209	11.0	.3526	1.500	1.271
%RSD	66.13	160.8	2.653	849.8	1092.	116.6
#1	3.592	.2126	426.4	-.3054	1.582	.1125
#2	1.070	.0274	405.5	.3589	-.8100	2.527
#3	5.571	-.0145	410.2	-.1780	-1.184	.6302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2679**	**.4790**	**.2453**	**-.1638**	**1.040**	**.2300**
Stddev	1.950	1.775	.4024	.2084	2.074	.4026
%RSD	728.0	370.6	164.1	127.2	199.3	175.0
#1	1.091	-.9766	.1896	-.3958	2.941	.6924
#2	-1.959	-.0428	.6727	.0076	-1.171	-.0425
#3	1.671	2.456	-.1264	-.1033	1.352	.0401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 20:11:05 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1689**	**.1139**	**.3720**	**-4.437**
Stddev	.3942	.1196	.3470	28.55
%RSD	233.3	105.1	93.26	643.4
#1	.0160	.2280	.6372	20.85
#2	-.1258	-.0106	.4995	-35.40
#3	.6167	.1243	-.0206	1.235
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2844.7**	**25830.**	**2296.3**
Stddev	135.0	315.	47.3
%RSD	4.7450	1.2182	2.0577
#1	2797.8	26078.	2333.1
#2	2996.9	25935.	2312.8
#3	2739.4	25476.	2243.0

Sample Name: 460-152160-D-6-B@5 Acquired: 3/19/2018 20:19:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**66.39**	**-.3833**	**.1177**	**30.59**	**.0252**	**21890.**
Stddev	11.46	1.445	.2116	1.28	.0347	383.
%RSD	17.27	377.1	179.8	4.190	137.5	1.751
#1	71.88	-.5857	-.1266	31.27	.0078	21470.
#2	53.21	1.153	.2408	31.40	.0652	22220.
#3	74.08	-1.717	.2390	29.11	.0028	21970.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1143**	**.3212**	**-.1343**	**32.77**	**739.5**	**4158.**
Stddev	.1368	.1177	.3905	1.48	11.9	85.
%RSD	119.7	36.65	290.8	4.513	1.612	2.053
#1	.0519	.3039	-.2434	31.06	729.7	4164.
#2	.0198	.2131	.2992	33.53	752.7	4240.
#3	.2711	.4467	-.4586	33.71	736.0	4069.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-6-B@5 Acquired: 3/19/2018 20:19:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2555.**	**788.6**	**134700.**	**.0488**	**1.701**	**1.021**
Stddev	43.	13.2	952.	.3356	.720	1.394
%RSD	1.702	1.673	.7070	688.0	42.34	136.5
#1	2506.	773.7	135100.	-.2842	2.450	2.631
#2	2588.	798.9	135400.	.0436	1.642	.1890
#3	2570.	793.2	133600.	.3869	1.013	.2441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.730**	**-.8930**	**1.231**	**84.41**	**40.58**	**-.5503**
Stddev	1.785	1.869	.786	2.69	2.41	.0802
%RSD	103.2	209.3	63.82	3.183	5.934	14.58
#1	1.038	-.8186	.8502	84.79	40.64	-.6429
#2	3.757	-2.798	.7081	86.88	42.95	-.5057
#3	.3950	.9373	2.134	81.55	38.14	-.5022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-6-B@5 Acquired: 3/19/2018 20:19:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.4218**	**123.0**	**1.772**	**213.8**
Stddev	1.204	1.0	.098	56.0
%RSD	285.5	.7832	5.533	26.22
#1	-1.790	123.3	1.666	215.9
#2	.0477	123.9	1.860	268.7
#3	.4770	122.0	1.791	156.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2701.2**	**24090.**	**2185.4**
Stddev	143.4	352.	24.6
%RSD	5.3106	1.4594	1.1260
#1	2630.3	24316.	2173.8
#2	2607.0	23685.	2168.7
#3	2866.3	24269.	2213.6

Sample Name: 460-152160-E-9-B@5 Acquired: 3/19/2018 20:23:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**63.76**	**-2.373**	**-.2856**	**788.5**	**.0421**	**23570.**
Stddev	4.42	1.469	.4719	22.3	.2083	147.
%RSD	6.940	61.90	165.2	2.825	495.0	.6252
#1	65.45	-4.032	-.5953	805.4	.2587	23620.
#2	58.74	-1.239	-.5190	796.9	-.1567	23690.
#3	67.09	-1.847	.2575	763.3	.0242	23410.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0917**	**-.3622**	**-.7671**	**22.07**	**204.3**	**2202.**
Stddev	.0633	.1430	.5244	.95	9.7	50.
%RSD	69.08	39.48	68.36	4.308	4.767	2.261
#1	-.1638	-.3451	-.1633	22.43	193.3	2172.
#2	-.0453	-.5130	-1.029	22.79	207.7	2259.
#3	-.0660	-.2286	-1.109	20.99	211.9	2174.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-9-B@5 Acquired: 3/19/2018 20:23:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4810.**	**25.05**	**116700.**	**3.154**	**1.043**	**1.073**
Stddev	28.	.18	961.	.228	1.058	1.572
%RSD	.5777	.7129	.8235	7.214	101.4	146.5
#1	4797.	25.16	117000.	3.010	-.0444	2.199
#2	4842.	25.16	117500.	3.035	2.068	1.743
#3	4791.	24.85	115700.	3.416	1.106	-.7232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.207**	**-2.857**	**.9263**	**14.22**	**20.97**	**.2107**
Stddev	4.949	.940	.5524	.57	2.57	.0786
%RSD	117.6	32.88	59.64	4.035	12.24	37.29
#1	9.865	-1.988	1.114	14.85	22.45	.2073
#2	.6818	-2.730	.3044	14.08	22.45	.2909
#3	2.075	-3.854	1.360	13.73	18.00	.1339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-9-B@5 Acquired: 3/19/2018 20:23:05 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.191**	**98.33**	**1.754**	**207.5**
Stddev	.610	.75	.212	55.7
%RSD	51.20	.7647	12.08	26.86
#1	.4875	98.59	1.509	259.3
#2	1.513	98.93	1.880	214.7
#3	1.571	97.49	1.872	148.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2689.2**	**24200.**	**2249.5**
Stddev	80.5	103.	10.3
%RSD	2.9953	.42357	.45928
#1	2639.2	24311.	2259.2
#2	2646.3	24109.	2250.7
#3	2782.1	24182.	2238.6

Sample Name: 460-152160-E-11-B@5 Acquired: 3/19/2018 20:31:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.72**	**-.6349**	**.6028**	**232.8**	**.0882**	**13070.**
Stddev	7.10	.9628	.8222	6.9	.0948	37.
%RSD	18.83	151.6	136.4	2.978	107.4	.2808
#1	44.74	-.6364	1.492	237.1	-.0163	13110.
#2	30.54	.3286	.4460	236.4	.1685	13070.
#3	37.89	-1.597	-.1296	224.8	.1125	13040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0860**	**.1138**	**-1.352**	**-.1737**	**81.83**	**1168.**
Stddev	.0847	.0301	.377	.6745	5.37	15.
%RSD	98.49	26.45	27.86	388.3	6.557	1.308
#1	-.1763	.1409	-1.494	.4093	86.97	1166.
#2	-.0084	.1191	-.9247	-.9124	82.26	1153.
#3	-.0732	.0814	-1.636	-.0181	76.26	1184.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-11-B@5 Acquired: 3/19/2018 20:31:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**996.1**	**155.9**	**9808.**	**.4304**	**.6119**	**1.970**
Stddev	16.1	2.9	55.	.1223	.8957	.570
%RSD	1.615	1.875	.5562	28.41	146.4	28.96
#1	983.5	152.9	9758.	.3566	.3515	1.713
#2	990.6	156.0	9801.	.3630	-.1247	2.623
#3	1014.	158.7	9866.	.5715	1.609	1.573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2620**	**-.5129**	**.5472**	**.8970**	**8.726**	**-.3236**
Stddev	3.338	.4682	.1441	.2240	2.426	.0943
%RSD	1274.	91.29	26.33	24.97	27.80	29.14
#1	-1.698	-.7327	.6774	1.019	7.028	-.2298
#2	3.554	-.8307	.3924	1.033	11.50	-.4184
#3	-2.642	.0248	.5719	.6385	7.646	-.3228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-E-11-B@5 Acquired: 3/19/2018 20:31:03 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3004**	**81.51**	**1.069**	**481.6**
Stddev	.7465	.38	.263	72.5
%RSD	248.5	.4684	24.58	15.05
#1	.1700	81.09	.7666	517.5
#2	-.3723	81.59	1.202	529.0
#3	1.103	81.84	1.240	398.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2791.6**	**25185.**	**2239.3**
Stddev	96.4	146.	29.9
%RSD	3.4548	.57956	1.3346
#1	2738.4	25032.	2273.4
#2	2733.5	25199.	2227.1
#3	2902.9	25323.	2217.5

Sample Name: 460-152160-D-14-B@5 Acquired: 3/19/2018 20:35:08 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**51.61**	**-.9657**	**-.0591**	**117.1**	**.0594**	**13150.**
Stddev	22.98	1.493	.3068	.3	.1835	73.
%RSD	44.52	154.6	519.1	.2708	309.2	.5516
#1	77.63	-2.484	-.0682	117.1	.2007	13240.
#2	43.10	.5001	.2521	117.5	.1255	13120.
#3	34.11	-.9129	-.3613	116.8	-.1481	13100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1213**	**.3060**	**-.4206**	**.3871**	**478.0**	**2035.**
Stddev	.1058	.1461	.3426	.8164	11.8	55.
%RSD	87.21	47.74	81.47	210.9	2.469	2.721
#1	-.1437	.1919	-.0939	1.316	489.1	1973.
#2	-.0061	.4707	-.7772	-.2183	479.2	2080.
#3	-.2142	.2554	-.3906	.0642	465.6	2053.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-14-B@5 Acquired: 3/19/2018 20:35:08 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1488.**	**397.1**	**78460.**	**.9570**	**1.604**	**-1.226**
Stddev	10.	1.6	231.	.2208	.993	.469
%RSD	.6766	.3942	.2940	23.08	61.87	38.25
#1	1485.	398.9	78550.	.7679	.4675	-.7710
#2	1499.	396.3	78200.	.9034	2.045	-1.198
#3	1480.	396.1	78630.	1.200	2.300	-1.707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.054**	**-.4640**	**.8314**	**6.738**	**15.16**	**-.8917**
Stddev	2.335	.0759	.2967	.128	1.67	.3086
%RSD	221.6	16.36	35.69	1.899	11.03	34.61
#1	3.750	-.5334	.9574	6.643	13.34	-.5566
#2	-.2927	-.3829	1.044	6.688	16.62	-1.164
#3	-.2957	-.4757	.4925	6.884	15.51	-.9543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-14-B@5 Acquired: 3/19/2018 20:35:08 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1778**	**95.49**	**.9950**	**258.5**
Stddev	.6140	.21	.1130	23.9
%RSD	345.3	.2205	11.36	9.247
#1	-.3253	95.49	.9320	231.0
#2	-.7047	95.28	1.125	271.0
#3	.4965	95.70	.9274	273.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2718.9**	**24847.**	**2261.5**
Stddev	3.7	241.	34.1
%RSD	.13448	.97124	1.5069
#1	2717.8	24583.	2236.4
#2	2722.9	25057.	2300.3
#3	2715.9	24902.	2247.8

Sample Name: 460-152160-D-20-B@5 Acquired: 3/19/2018 20:39:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.63**	**-1.096**	**.3248**	**86.70**	**.0699**	**15570.**
Stddev	29.11	.516	.5595	3.02	.0228	524.
%RSD	57.49	47.10	172.3	3.480	32.58	3.368
#1	29.09	-.5294	-.3148	88.14	.0516	15220.
#2	83.74	-1.540	.7232	83.23	.0954	15320.
#3	39.06	-1.220	.5660	88.72	.0627	16180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1817**	**.0347**	**-1.038**	**.0862**	**110.4**	**2524.**
Stddev	.0486	.3207	.276	.1092	17.1	20.
%RSD	26.76	924.5	26.58	126.6	15.52	.8113
#1	-.1812	-.1724	-1.273	-.0262	90.63	2501.
#2	-.1333	-.1276	-1.108	.0929	119.4	2540.
#3	-.2305	.4040	-.7343	.1919	121.2	2531.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-20-B@5 Acquired: 3/19/2018 20:39:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1782.**	**217.9**	**56030.**	**.5971**	**.8468**	**1.759**
Stddev	68.	9.0	133.	.6234	.9989	1.918
%RSD	3.835	4.130	.2373	104.4	118.0	109.0
#1	1719.	209.8	55960.	.9428	1.905	1.291
#2	1773.	216.3	55950.	.9712	-.0791	.1190
#3	1855.	227.6	56190.	-.1226	.7140	3.868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.590**	**-1.358**	**.9122**	**3.278**	**10.92**	**-.6403**
Stddev	4.843	.542	.8679	.349	.79	.4136
%RSD	304.6	39.90	95.14	10.65	7.205	64.59
#1	6.484	-1.364	.1318	3.546	10.52	-1.075
#2	1.486	-.8133	1.847	3.405	10.41	-.5950
#3	-3.200	-1.897	.7578	2.883	11.83	-.2513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152160-D-20-B@5 Acquired: 3/19/2018 20:39:07 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.6501**	**92.44**	**1.320**	**196.4**
Stddev	.5289	.12	.278	41.2
%RSD	81.35	.1301	21.02	20.95
#1	.2975	92.52	1.076	164.5
#2	1.258	92.30	1.262	182.0
#3	.3946	92.50	1.622	242.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2729.5**	**24407.**	**2232.6**
Stddev	95.9	629.	33.9
%RSD	3.5126	2.5789	1.5179
#1	2677.1	24867.	2270.5
#2	2840.2	24664.	2222.4
#3	2671.3	23690.	2205.0

Sample Name: 460-151998-B-1-B@5 Acquired: 3/19/2018 20:51:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**117.5**	**-.7631**	**.4950**	**138.5**	**.2356**	**15550.**
Stddev	8.5	2.540	.4676	4.7	.1254	81.
%RSD	7.274	332.8	94.47	3.392	53.24	.5182
#1	125.3	-3.261	.2786	141.1	.1903	15470.
#2	108.4	1.817	1.032	133.0	.3774	15630.
#3	118.7	-.8448	.1747	141.2	.1392	15560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1399**	**.1820**	**-.7457**	**7.805**	**55.59**	**614.8**
Stddev	.0586	.2013	.4139	.540	11.09	48.5
%RSD	41.90	110.6	55.51	6.917	19.94	7.894
#1	.0900	.2728	-.8305	8.409	51.40	632.0
#2	.2044	.3220	-.2960	7.370	68.17	652.3
#3	.1252	-.0487	-1.111	7.635	47.21	560.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151998-B-1-B@5 Acquired: 3/19/2018 20:51:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2117.**	**70.94**	F **267500.**	**2.342**	**4.380**	**-.4555**
Stddev	3.	.12	635.	.418	1.023	.5263
%RSD	.1373	.1738	.2374	17.84	23.35	115.6
#1	2114.	70.81	267100.	2.293	3.658	.1413
#2	2120.	71.05	267100.	2.782	3.932	-.6542
#3	2117.	70.97	268200.	1.951	5.551	-.8535
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.405**	**-1.053**	**.4628**	**11.22**	**26.26**	**-.6071**
Stddev	1.952	1.114	1.130	.32	1.94	.1964
%RSD	81.15	105.8	244.1	2.892	7.374	32.34
#1	-2.909	-.2426	.8187	11.47	27.25	-.5532
#2	-4.055	-.5928	-.8022	10.85	24.03	-.4434
#3	-.2507	-2.323	1.372	11.33	27.51	-.8248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151998-B-1-B@5 Acquired: 3/19/2018 20:51:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.4168**	**61.95**	**2.280**	**1219.**
Stddev	.1872	.17	.102	29.
%RSD	44.91	.2701	4.470	2.378
#1	.6018	61.90	2.230	1252.
#2	.4210	61.81	2.397	1200.
#3	.2275	62.13	2.212	1205.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2691.4**	**23974.**	**2254.5**
Stddev	84.7	229.	38.8
%RSD	3.1475	.95710	1.7215
#1	2656.8	24237.	2292.7
#2	2788.0	23873.	2255.8
#3	2629.6	23812.	2215.1

Sample Name: CCVL Acquired: 3/19/2018 21:06:31 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**226.0**	**14.48**	**10.68**	**215.7**	**2.101**	**5261.**
Stddev	28.3	1.24	.41	5.4	.159	19.
%RSD	12.52	8.563	3.793	2.504	7.579	.3616
#1	227.1	14.25	10.57	218.1	1.947	5239.
#2	197.1	13.37	11.13	219.4	2.091	5271.
#3	253.7	15.82	10.34	209.5	2.265	5273.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.266**	**55.38**	**10.00**	**25.80**	**186.1**	**5156.**
Stddev	.099	1.94	.27	.45	7.5	20.
%RSD	2.329	3.505	2.724	1.755	4.039	.3885
#1	4.299	55.87	9.779	26.18	181.5	5136.
#2	4.345	57.03	9.921	25.91	194.7	5176.
#3	4.155	53.24	10.31	25.30	182.0	5156.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 21:06:31 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5453.**	**16.70**	**5230.**	**45.29**	**12.18**	**20.73**
Stddev	21.	.09	23.	1.41	1.01	2.09
%RSD	.3794	.5137	.4333	3.118	8.331	10.07
#1	5446.	16.75	5207.	46.00	12.53	21.41
#2	5437.	16.74	5229.	46.20	12.96	18.39
#3	5476.	16.60	5252.	43.66	11.03	22.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**23.64**	**21.29**	**56.80**	**33.83**	F **29.76**	**22.11**
Stddev	3.95	1.70	.85	1.03	1.88	1.04
%RSD	16.72	7.973	1.492	3.047	6.318	4.701
#1	22.64	19.51	57.75	34.50	30.99	22.77
#2	28.00	22.89	56.50	34.36	30.71	22.65
#3	20.29	21.49	56.14	32.65	27.60	20.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 21:06:31 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**55.32**	**20.80**	**23.12**	F **-200.3**
Stddev	1.91	.17	.11	21.9
%RSD	3.456	.8263	.4828	10.92
#1	56.83	20.83	23.14	-190.1
#2	55.97	20.62	23.23	-225.5
#3	53.17	20.96	23.01	-185.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2804.3**	**25326.**	**2277.5**
Stddev	75.1	197.	26.8
%RSD	2.6786	.77662	1.1758
#1	2786.7	25546.	2302.9
#2	2739.6	25266.	2280.1
#3	2886.7	25166.	2249.5

Sample Name: 460-152138-F-1-B@5 Acquired: 3/19/2018 21:10:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**391.3**	**-.2910**	**.2816**	**126.6**	**.1029**	**12950.**
Stddev	9.1	1.767	.6322	2.9	.0756	30.
%RSD	2.330	607.3	224.5	2.308	73.42	.2323
#1	400.8	-2.225	.1055	128.6	.1897	12980.
#2	382.7	1.239	.9832	128.0	.0514	12950.
#3	390.3	.1129	-.2439	123.3	.0677	12920.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0366**	**6.478**	**-.0300**	**3.448**	**362.7**	**925.3**
Stddev	.1090	.544	.3121	.553	19.5	21.2
%RSD	298.2	8.393	1039.	16.04	5.366	2.295
#1	.1253	6.980	.1234	3.650	341.5	922.0
#2	.0695	6.555	.1757	3.872	367.0	947.9
#3	-.0852	5.900	-.3892	2.823	379.8	905.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-F-1-B@5 Acquired: 3/19/2018 21:10:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3338.**	**510.6**	F **279900.**	**5.092**	**27.37**	**.0939**
Stddev	21.	1.9	1034.	.245	1.85	1.285
%RSD	.6151	.3718	.3695	4.810	6.751	1369.
#1	3352.	512.6	281100.	5.183	28.67	-1.286
#2	3348.	508.9	279700.	4.814	28.18	.3113
#3	3315.	510.3	279100.	5.278	25.26	1.256
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.811**	**-.3618**	**2.224**	**53.38**	**49.17**	**-.6315**
Stddev	.686	.7236	1.172	2.17	3.96	.1970
%RSD	24.41	200.0	52.71	4.075	8.045	31.19
#1	3.602	-.9847	.8704	54.72	51.08	-.7309
#2	2.460	.4319	2.875	54.55	51.81	-.4047
#3	2.372	-.5326	2.925	50.87	44.62	-.7590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-F-1-B@5 Acquired: 3/19/2018 21:10:31 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3129**	**37.85**	**16.23**	**1377.**
Stddev	.8195	.02	1.32	19.
%RSD	261.9	.0567	8.119	1.372
#1	.7638	37.87	17.75	1392.
#2	.8079	37.86	15.40	1382.
#3	-.6330	37.83	15.54	1356.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2652.8**	**23701.**	**2211.6**
Stddev	38.7	100.	18.3
%RSD	1.4583	.42394	.82766
#1	2634.2	23795.	2231.3
#2	2626.8	23714.	2208.1
#3	2697.2	23595.	2195.2

Sample Name: 460-152138-E-3-B@5 Acquired: 3/19/2018 21:18:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**301.6**	**-.4293**	**-.0110**	**72.58**	**.0266**	**124000.**
Stddev	17.6	1.002	.7470	2.72	.1456	676.
%RSD	5.841	233.3	6815.	3.748	548.1	.5452
#1	285.6	-.3782	-.4823	74.03	-.1011	124300.
#2	320.5	-1.455	.8503	74.26	.1851	124400.
#3	298.9	.5459	-.4009	69.44	-.0043	123200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2016**	**1.313**	**1.674**	**2.174**	**58.25**	**1418.**
Stddev	.0377	.252	.622	.263	8.97	40.
%RSD	18.71	19.21	37.16	12.12	15.40	2.811
#1	.1581	1.570	1.361	2.026	67.93	1382.
#2	.2223	1.066	2.391	2.478	56.61	1413.
#3	.2245	1.302	1.271	2.017	50.22	1461.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-E-3-B@5 Acquired: 3/19/2018 21:18:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11830.**	**959.9**	F **256600.**	**3.492**	**9.534**	**2.095**
Stddev	46.	5.4	326.	.125	1.813	.344
%RSD	.3918	.5582	.1270	3.567	19.02	16.42
#1	11810.	963.3	256500.	3.387	11.09	2.051
#2	11880.	962.7	256300.	3.630	9.963	2.459
#3	11790.	953.7	257000.	3.460	7.545	1.775
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1136**	**-.2256**	**28.68**	**12.99**	**44.90**	**-.1751**
Stddev	1.050	.2249	.61	1.01	3.65	.0705
%RSD	924.6	99.73	2.115	7.770	8.141	40.28
#1	.9839	.0193	28.35	13.27	45.52	-.1413
#2	.4092	-.2730	28.31	13.84	48.20	-.1278
#3	-1.052	-.4230	29.38	11.88	40.97	-.2561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152138-E-3-B@5 Acquired: 3/19/2018 21:18:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.5528**	**149.8**	**4.878**	**7798.**
Stddev	1.553	.6	.167	328.
%RSD	280.9	.3994	3.412	4.212
#1	-2.329	150.2	4.993	8056.
#2	.1218	149.2	4.954	7909.
#3	.5486	150.2	4.687	7428.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2631.6**	**23136.**	**2186.3**
Stddev	112.2	51.	21.1
%RSD	4.2621	.22193	.96524
#1	2574.5	23145.	2210.6
#2	2559.4	23081.	2175.6
#3	2760.8	23182.	2172.7

Sample Name: LB 460-504361/1-B@5 Acquired: 3/19/2018 21:26:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.12**	**-1.739**	**-.0036**	**.3388**	**-.1609**	**10.02**
Stddev	17.81	.907	.9098	.0347	.0554	4.23
%RSD	176.0	52.16	25440.	10.23	34.44	42.22
#1	21.87	-2.645	.6945	.3707	-.1456	13.20
#2	-10.37	-1.742	-1.032	.3438	-.1147	11.64
#3	18.86	-.8306	.3273	.3019	-.2223	5.219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1133**	**.1680**	**-.7530**	**-.2550**	**7.273**	**258.9**
Stddev	.1330	.1210	.2825	.2461	4.785	68.0
%RSD	117.4	72.05	37.52	96.51	65.79	26.27
#1	-.1785	.0783	-.4485	-.2983	11.10	304.1
#2	-.2012	.3057	-1.007	-.4766	1.907	180.7
#3	.0397	.1199	-.8036	.0099	8.815	292.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504361/1-B@5 Acquired: 3/19/2018 21:26:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.732**	**.1097**	**947.6**	**-.0452**	**1.376**	**.9020**
Stddev	3.926	.0727	37.7	.3876	1.477	.9311
%RSD	82.97	66.25	3.979	857.3	107.3	103.2
#1	6.536	.0288	988.3	-.4875	.4432	1.895
#2	.2279	.1309	940.4	.1166	3.080	.7627
#3	7.431	.1695	913.9	.2352	.6061	.0484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.267**	**-.1968**	**.6450**	**1.050**	**-2.465**	**-.6796**
Stddev	2.681	1.678	.0798	.127	.973	.1802
%RSD	211.6	852.3	12.37	12.08	39.49	26.51
#1	-1.796	1.039	.6624	1.047	-2.811	-.8060
#2	2.413	-2.107	.5579	1.178	-1.366	-.4733
#3	3.184	.4770	.7146	.9247	-3.218	-.7596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504361/1-B@5 Acquired: 3/19/2018 21:26:27 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1050**	**.0077**	**-.2126**	**-29.26**
Stddev	1.266	.0952	.0978	58.53
%RSD	1205.	1240.	45.98	200.1
#1	1.069	-.0929	-.2641	20.28
#2	.5747	.0964	-.0999	-93.85
#3	-1.329	.0195	-.2739	-14.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2811.0**	**25734.**	**2292.2**
Stddev	47.5	156.	22.6
%RSD	1.6903	.60554	.98446
#1	2789.0	25617.	2306.2
#2	2778.5	25911.	2266.1
#3	2865.5	25675.	2304.1

Sample Name: LB 460-504362/1-B@5 Acquired: 3/19/2018 21:30:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.441**	**-1.725**	**.7639**	**-.0132**	**-.0437**	**-.3409**
Stddev	11.48	1.263	.1130	.0403	.0717	8.701
%RSD	470.2	73.20	14.80	306.0	164.1	2552.
#1	11.69	-.6923	.7004	-.0415	-.0807	3.649
#2	-10.40	-1.350	.6969	-.0310	-.0893	-10.32
#3	6.030	-3.133	.8944	.0330	.0389	5.650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0861**	**.1239**	**-1.128**	**.2835**	**.0295**	**66.17**
Stddev	.0317	.0748	.671	.4217	25.08	15.41
%RSD	36.88	60.42	59.48	148.8	85120.	23.30
#1	-.0496	.1279	-.3842	-.1577	-24.48	69.86
#2	-.1071	.0471	-1.311	.3256	25.66	79.40
#3	-.1016	.1966	-1.687	.6825	-1.092	49.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504362/1-B@5 Acquired: 3/19/2018 21:30:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.154**	**-.0107**	F **266300.**	**1.930**	**1.662**	**-.3075**
Stddev	2.511	.0120	1130.	.265	.202	1.483
%RSD	48.73	111.8	.4241	13.72	12.15	482.2
#1	6.441	-.0207	267300.	1.850	1.437	1.316
#2	6.762	-.0139	266600.	2.225	1.724	-.6479
#3	2.260	.0025	265100.	1.714	1.826	-1.591
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.051**	**-1.097**	**.7318**	**.6042**	**2.156**	**-.6830**
Stddev	3.283	1.359	.6783	.0679	1.669	.0407
%RSD	160.1	123.8	92.69	11.24	77.45	5.954
#1	-1.610	-2.653	.4710	.6823	4.059	-.6999
#2	-5.533	-.1436	1.502	.5586	.9383	-.7125
#3	.9894	-.4951	.2226	.5718	1.470	-.6366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-504362/1-B@5 Acquired: 3/19/2018 21:30:29 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.569**	**.0445**	**-.4142**	**24.16**
Stddev	.175	.0446	.1435	5.70
%RSD	11.14	100.1	34.64	23.60
#1	1.580	.0249	-.5058	17.62
#2	1.738	.0956	-.2488	28.09
#3	1.389	.0131	-.4880	26.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2728.8**	**23586.**	**2210.4**
Stddev	112.9	180.	14.6
%RSD	4.1388	.76298	.65961
#1	2598.9	23482.	2212.4
#2	2783.8	23482.	2194.9
#3	2803.8	23794.	2223.8

Sample Name: CCV Acquired: 3/19/2018 21:38:35 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127800.**	**2552.**	**1264.**	**10350.**	**1016.**	**127600.**
Stddev	331.	6.	.	23.	3.	606.
%RSD	.2587	.2520	.0269	.2238	.3096	.4743
#1	127500.	2550.	1264.	10380.	1014.	128300.
#2	128200.	2547.	1264.	10340.	1020.	127600.
#3	127700.	2559.	1264.	10340.	1016.	127000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1290.**	**2593.**	**5175.**	**12850.**	**103500.**	**50840.**
Stddev	3.	9.	21.	30.	348.	189.
%RSD	.2129	.3500	.4077	.2304	.3357	.3725
#1	1293.	2602.	5190.	12820.	103900.	50620.
#2	1289.	2594.	5183.	12850.	103600.	50960.
#3	1288.	2584.	5151.	12880.	103200.	50930.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 21:38:35 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**128100.**	**5159.**	**126400.**	**2578.**	**7741.**	**1024.**
Stddev	392.	13.	363.	2.	5.	2.
%RSD	.3063	.2549	.2870	.0953	.0603	.2124
#1	128500.	5173.	126100.	2580.	7743.	1023.
#2	127900.	5157.	126800.	2576.	7745.	1022.
#3	127800.	5147.	126300.	2576.	7736.	1026.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2563.**	**2596.**	**2571.**	**2592.**	**1035.**	**2582.**
Stddev	4.	15.	5.	5.	1.	5.
%RSD	.1632	.5890	.1965	.1965	.0572	.1963
#1	2564.	2612.	2576.	2596.	1034.	2587.
#2	2559.	2581.	2570.	2594.	1035.	2577.
#3	2567.	2596.	2566.	2586.	1035.	2580.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 21:38:35 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1039.**	**5141.**	**10390.**	**9983.**
Stddev	2.	15.	12.	230.
%RSD	.2152	.2861	.1111	2.304
#1	1041.	5124.	10400.	9935.
#2	1038.	5147.	10390.	9780.
#3	1037.	5150.	10380.	10230.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2567.1**	**23394.**	**2129.4**
Stddev	15.1	240.	39.0
%RSD	.58933	1.0240	1.8306
#1	2551.5	23248.	2113.4
#2	2568.1	23263.	2101.0
#3	2581.7	23670.	2173.9

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 22:36:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5784.**	**221.2**	**18.61**	**964.0**	**.6355**	**69870.**
Stddev	50.	1.3	.77	.8	.0475	162.
%RSD	.8685	.5799	4.111	.0825	7.477	.2325
#1	5817.	219.7	18.23	964.9	.6794	69750.
#2	5726.	221.9	18.11	963.4	.6421	69800.
#3	5809.	221.9	19.49	963.7	.5851	70050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.03**	**56.41**	**321.6**	**1521.**	**139100.**	**946.5**
Stddev	.10	.18	.8	6.	110.	33.1
%RSD	.5666	.3213	.2356	.3720	.0794	3.500
#1	16.93	56.23	321.7	1527.	139000.	964.1
#2	17.13	56.40	322.3	1517.	139100.	908.3
#3	17.04	56.59	320.8	1518.	139200.	967.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 22:36:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12770.**	**846.5**	**14470.**	**201.2**	**13890.**	**572.9**
Stddev	43.	1.3	81.	2.1	39.	2.8
%RSD	.3375	.1579	.5614	1.039	.2781	.4826
#1	12780.	845.4	14560.	198.9	13910.	570.4
#2	12730.	846.1	14400.	202.9	13920.	575.9
#3	12810.	848.0	14470.	201.8	13840.	572.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.961**	**2.233**	**38.30**	**1388.**	**572.3**	**108.8**
Stddev	1.332	1.148	.32	7.	7.3	1.0
%RSD	26.85	51.41	.8408	.5218	1.269	.9623
#1	3.562	1.042	38.35	1390.	564.2	108.0
#2	6.213	2.323	38.60	1394.	574.5	108.5
#3	5.108	3.333	37.96	1380.	578.3	110.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-B DU Acquired: 3/19/2018 22:36:42 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12470.**	**162.0**	**443.7**	**138.7**
Stddev	34.	1.3	.1	15.1
%RSD	.2756	.8206	.0214	10.87
#1	12490.	163.3	443.8	121.7
#2	12490.	160.7	443.6	143.9
#3	12430.	161.9	443.8	150.5
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2702.9**	**24260.**	**2168.6**
Stddev	33.0	176.	36.7
%RSD	1.2214	.72406	1.6902
#1	2690.2	24420.	2202.2
#2	2678.1	24287.	2174.1
#3	2740.4	24072.	2129.5

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 22:48:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6236.**	**319.1**	**20.95**	**1265.**	**2.536**	**74850.**
Stddev	72.	4.2	.45	8.	.025	634.
%RSD	1.147	1.315	2.171	.6277	.9971	.8468
#1	6154.	314.5	21.23	1256.	2.509	74120.
#2	6287.	322.7	21.18	1266.	2.540	75290.
#3	6267.	320.1	20.42	1272.	2.559	75130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.05**	**81.30**	**347.1**	**1641.**	**147500.**	**1853.**
Stddev	.23	.77	2.2	15.	1163.	51.
%RSD	1.172	.9449	.6313	.8879	.7889	2.776
#1	20.00	80.91	344.8	1624.	146100.	1793.
#2	19.84	80.81	349.1	1648.	148100.	1879.
#3	20.30	82.18	347.5	1651.	148200.	1885.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 22:48:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14280.**	**918.3**	**16210.**	**237.3**	**14920.**	**563.2**
Stddev	119.	7.2	237.	2.5	98.	5.2
%RSD	.8345	.7855	1.459	1.039	.6563	.9294
#1	14140.	910.0	15960.	235.3	14820.	558.4
#2	14340.	922.7	16270.	236.4	14930.	562.4
#3	14340.	922.3	16420.	240.0	15010.	568.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**88.33**	**82.52**	**61.91**	**1501.**	**643.1**	**139.3**
Stddev	3.99	2.04	.21	12.	11.9	2.4
%RSD	4.517	2.467	.3393	.7951	1.857	1.689
#1	90.82	80.43	62.07	1488.	631.1	136.6
#2	83.73	82.64	61.99	1504.	643.3	140.3
#3	90.45	84.50	61.67	1512.	655.0	141.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-C MS Acquired: 3/19/2018 22:48:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **13180.**	**196.1**	**492.9**	**144.0**
Stddev	98.	2.7	4.6	28.2
%RSD	.7429	1.401	.9338	19.61
#1	13080.	193.0	487.6	173.2
#2	13180.	197.0	495.5	141.8
#3	13280.	198.3	495.6	116.9
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2709.6**	**24549.**	**2192.2**
Stddev	8.4	78.	7.5
%RSD	.31106	.31921	.34341
#1	2719.3	24488.	2199.0
#2	2705.5	24522.	2193.4
#3	2704.0	24638.	2184.1

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 22:40:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5759.**	**218.5**	**18.46**	**958.1**	**.7067**	**68940.**
Stddev	43.	2.8	.11	2.5	.2103	385.
%RSD	.7438	1.301	.6125	.2617	29.76	.5588
#1	5763.	220.0	18.52	956.2	.5978	68500.
#2	5714.	215.2	18.53	957.2	.5731	69150.
#3	5799.	220.3	18.33	961.0	.9491	69180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.03**	**55.10**	**317.3**	**1511.**	**137300.**	**963.1**
Stddev	.05	.07	1.3	5.	508.	60.7
%RSD	.3126	.1215	.4098	.3587	.3700	6.299
#1	17.08	55.03	316.0	1506.	136800.	964.7
#2	16.98	55.15	317.3	1517.	137800.	1023.
#3	17.02	55.13	318.6	1511.	137300.	901.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 22:40:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12450.**	**838.3**	**14460.**	**200.9**	**13820.**	**571.8**
Stddev	21.	3.4	35.	1.6	16.	3.5
%RSD	.1702	.4070	.2421	.8059	.1183	.6188
#1	12440.	834.7	14500.	199.1	13810.	569.1
#2	12470.	838.7	14450.	201.9	13820.	575.8
#3	12440.	841.5	14430.	201.9	13840.	570.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.102**	**2.188**	**38.11**	**1380.**	**578.5**	**109.5**
Stddev	1.602	1.246	.51	3.	5.6	1.3
%RSD	22.56	56.97	1.327	.2315	.9638	1.155
#1	5.545	3.560	38.39	1376.	573.0	108.1
#2	8.746	1.878	37.53	1380.	584.1	110.3
#3	7.016	1.125	38.42	1383.	578.5	110.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152163-C-1-A@50 Acquired: 3/19/2018 22:40:25 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12350.**	**162.4**	**438.3**	**149.9**
Stddev	13.	.5	.9	10.8
%RSD	.1071	.3307	.2081	7.214
#1	12340.	163.0	437.4	140.4
#2	12340.	162.0	439.2	161.7
#3	12360.	162.1	438.2	147.5
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2726.1**	**24739.**	**2203.4**
Stddev	11.3	157.	6.6
%RSD	.41415	.63610	.30057
#1	2736.0	24919.	2209.5
#2	2728.5	24672.	2204.4
#3	2713.8	24627.	2196.4

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 22:59:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44960.**	**13.42**	**.0073**	**509.5**	**2.668**	**6387.**
Stddev	281.	2.65	.3145	2.1	.150	28.
%RSD	.6247	19.76	4287.	.4035	5.628	.4442
#1	44730.	14.15	.0678	511.1	2.805	6354.
#2	45280.	10.49	.2872	510.2	2.508	6408.
#3	44880.	15.64	-.3330	507.2	2.691	6397.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2504**	**33.69**	**75.51**	**87.91**	**68110.**	**2749.**
Stddev	.1291	.35	.53	1.36	413.	11.
%RSD	51.54	1.041	.6974	1.542	.6061	.3946
#1	-.1066	33.29	74.91	87.32	67710.	2739.
#2	-.3563	33.94	75.85	89.47	68530.	2760.
#3	-.2884	33.85	75.78	86.96	68080.	2749.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 22:59:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6589.**	**1356.**	**305.5**	**42.19**	**390.8**	**1.284**
Stddev	44.	5.	30.9	.32	3.2	.686
%RSD	.6605	.3805	10.12	.7687	.8064	53.40
#1	6538.	1353.	275.6	41.81	387.4	2.040
#2	6616.	1362.	303.6	42.41	393.7	.7027
#3	6612.	1354.	337.4	42.34	391.4	1.110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.889**	**.4946**	**119.8**	**392.7**	**2.478**	**2.410**
Stddev	2.042	1.101	1.4	8.3	1.030	.216
%RSD	52.52	222.6	1.135	2.115	41.55	8.970
#1	5.941	-.2947	118.2	383.1	1.295	2.193
#2	1.857	.0261	120.2	396.8	3.174	2.412
#3	3.867	1.752	120.8	398.2	2.965	2.625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-9-A@4 Acquired: 3/19/2018 22:59:18 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**28.81**	**52.05**	**1014.**	**901.8**
Stddev	1.95	.41	5.	36.0
%RSD	6.762	.7810	.5156	3.998
#1	26.61	51.62	1008.	880.1
#2	29.53	52.44	1019.	943.4
#3	30.30	52.08	1014.	881.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2971.2**	**27028.**	**2338.2**
Stddev	14.1	109.	11.5
%RSD	.47523	.40351	.49128
#1	2955.4	27147.	2325.6
#2	2975.7	26933.	2340.7
#3	2982.5	27005.	2348.2

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 22:44:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1105.**	**42.21**	**3.637**	**189.5**	**.2302**	**13380.**
Stddev	44.	1.67	.653	2.7	.1353	252.
%RSD	3.979	3.957	17.96	1.450	58.77	1.881
#1	1061.	40.32	2.925	186.5	.3540	13090.
#2	1105.	43.46	3.779	190.2	.2507	13470.
#3	1148.	42.87	4.208	191.8	.0858	13560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.264**	**11.09**	**60.40**	**297.3**	**27380.**	**205.2**
Stddev	.097	.52	.90	5.7	545.	33.1
%RSD	2.983	4.675	1.492	1.924	1.990	16.13
#1	3.257	10.50	59.43	291.4	26780.	176.9
#2	3.170	11.48	60.56	297.7	27510.	197.0
#3	3.364	11.27	61.21	302.8	27850.	241.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 22:44:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2443.**	**167.2**	**2829.**	**40.79**	**2828.**	**113.4**
Stddev	58.	3.3	46.	.56	65.	3.6
%RSD	2.385	1.971	1.611	1.365	2.283	3.164
#1	2378.	163.7	2776.	40.17	2803.	109.3
#2	2461.	167.8	2854.	41.23	2779.	115.0
#3	2490.	170.3	2856.	40.99	2901.	115.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.667**	**-.0440**	**8.087**	**281.1**	**113.5**	**20.78**
Stddev	2.108	.6555	.876	6.8	3.3	.33
%RSD	126.5	1490.	10.83	2.408	2.890	1.592
#1	2.742	-.7427	7.514	273.3	109.7	20.40
#2	3.022	.5574	9.095	285.8	115.4	20.97
#3	-.7621	.0534	7.652	284.1	115.3	20.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152163-C-1-A Acquired: 3/19/2018 22:44:09 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **2536.**	**31.21**	**87.40**	**29.83**
Stddev	54.	.40	1.97	2.29
%RSD	2.129	1.295	2.253	7.663
#1	2474.	30.75	85.39	28.73
#2	2571.	31.39	87.49	28.31
#3	2564.	31.50	89.33	32.46
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2785.5**	**25573.**	**2243.1**
Stddev	23.5	233.	7.1
%RSD	.84367	.90941	.31535
#1	2781.2	25542.	2249.1
#2	2764.4	25358.	2235.3
#3	2810.8	25820.	2244.8

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 23:03:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**36830.**	**-3.526**	**.0284**	**207.1**	**2.258**	**1864.**
Stddev	1717.	3.433	.3789	.6	.202	23.
%RSD	4.663	97.37	1334.	.2668	8.951	1.219
#1	35720.	-1.540	.2828	207.5	2.069	1848.
#2	35960.	-1.548	-.4071	207.4	2.471	1890.
#3	38810.	-7.491	.2094	206.5	2.235	1855.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8393**	**83.04**	**72.17**	**59.72**	**152000.**	**2467.**
Stddev	.2260	.17	1.28	.59	1648.	96.
%RSD	26.92	.2031	1.768	.9942	1.084	3.903
#1	-.6479	82.85	71.35	59.04	151200.	2436.
#2	-1.089	83.17	73.64	60.07	153900.	2391.
#3	-.7816	83.11	71.52	60.07	150900.	2575.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 23:03:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8479.**	**959.1**	**310.0**	**92.29**	**31.46**	**-.8496**
Stddev	114.	10.0	43.8	.45	.53	1.693
%RSD	1.347	1.045	14.13	.4880	1.697	199.3
#1	8445.	952.1	314.3	92.59	31.28	-2.576
#2	8606.	970.6	264.2	92.52	32.06	-.7798
#3	8385.	954.7	351.5	91.78	31.04	.8076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.162**	**1.162**	**65.41**	**171.5**	**-3.790**	**2.642**
Stddev	1.458	1.699	1.63	2.2	.257	.082
%RSD	35.03	146.2	2.498	1.287	6.784	3.094
#1	2.536	3.025	64.00	170.0	-4.066	2.729
#2	5.354	-.3001	67.20	170.3	-3.557	2.628
#3	4.595	.7597	65.02	174.0	-3.748	2.567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-1-A@4 Acquired: 3/19/2018 23:03:10 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.468**	**20.35**	**636.1**	**772.8**
Stddev	.197	1.08	7.0	59.4
%RSD	2.643	5.302	1.095	7.689
#1	7.600	19.76	630.4	834.4
#2	7.241	19.69	643.9	715.8
#3	7.563	21.59	634.1	768.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2923.4**	**26149.**	**2288.5**
Stddev	44.3	445.	38.5
%RSD	1.5159	1.7008	1.6810
#1	2872.2	26038.	2332.9
#2	2947.2	25771.	2266.3
#3	2950.7	26639.	2266.3

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 22:51:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7946.**	**2398.**	**73.72**	**3227.**	**56.07**	**90820.**
Stddev	69.	5.	.53	7.	.43	455.
%RSD	.8695	.2008	.7193	.2310	.7678	.5005
#1	7897.	2404.	74.24	3227.	56.20	91210.
#2	7916.	2396.	73.73	3220.	55.59	90320.
#3	8025.	2395.	73.18	3235.	56.42	90940.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**73.28**	**638.5**	**547.4**	**1753.**	**135700.**	**23080.**
Stddev	.20	.7	1.8	10.	649.	207.
%RSD	.2745	.1156	.3361	.5720	.4779	.8958
#1	73.17	638.6	549.1	1764.	136400.	23030.
#2	73.17	637.7	545.4	1748.	135100.	22910.
#3	73.52	639.1	547.6	1746.	135700.	23310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 22:51:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34290.**	**1391.**	**36570.**	**758.6**	**14030.**	**1092.**
Stddev	244.	6.	128.	1.8	32.	6.
%RSD	.7130	.4094	.3504	.2353	.2294	.5382
#1	34560.	1394.	36550.	758.0	14040.	1097.
#2	34090.	1384.	36450.	757.2	14000.	1085.
#3	34200.	1395.	36700.	760.6	14060.	1093.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2214.**	**2382.**	**617.4**	**1933.**	**1136.**	**688.8**
Stddev	4.	4.	2.9	4.	3.	1.9
%RSD	.2021	.1628	.4651	.2249	.2723	.2803
#1	2218.	2387.	619.6	1931.	1138.	687.7
#2	2209.	2380.	614.1	1929.	1132.	687.7
#3	2214.	2380.	618.4	1938.	1137.	691.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-152163-C-1-A Acquired: 3/19/2018 22:51:45 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **12660.**	**718.1**	**1006.**	**109.7**
Stddev	15.	4.8	5.	23.7
%RSD	.1214	.6669	.4765	21.61
#1	12680.	717.0	1011.	82.90
#2	12650.	713.9	1003.	127.8
#3	12660.	723.3	1003.	118.5
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	2000.			
Low Limit	-50.00			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2664.6**	**24065.**	**2141.1**
Stddev	3.4	142.	17.6
%RSD	.12751	.58921	.82111
#1	2662.5	23936.	2122.8
#2	2668.5	24217.	2157.9
#3	2662.8	24042.	2142.7

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 22:55:23 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43030.**	**13.77**	**.1638**	**216.6**	**1.563**	**1147.**
Stddev	1244.	1.13	.4046	4.3	.095	32.
%RSD	2.891	8.198	247.0	1.964	6.047	2.823
#1	41940.	14.23	.2624	212.1	1.671	1123.
#2	42760.	14.60	.5100	217.1	1.495	1135.
#3	44380.	12.48	-.2809	220.6	1.522	1184.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3749**	**37.42**	**77.54**	**48.49**	**69080.**	**3675.**
Stddev	.1297	.40	1.69	1.27	1333.	115.
%RSD	34.59	1.067	2.181	2.612	1.929	3.139
#1	-.2277	36.98	77.33	47.72	67800.	3557.
#2	-.4249	37.52	75.96	47.80	68980.	3681.
#3	-.4722	37.77	79.32	49.96	70460.	3787.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 22:55:23 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5172.**	**340.1**	**429.5**	**40.08**	**102.1**	**1.402**
Stddev	141.	6.8	11.9	1.08	3.2	.875
%RSD	2.729	2.008	2.768	2.693	3.136	62.38
#1	5043.	333.6	431.0	38.88	98.98	1.322
#2	5149.	339.6	416.9	40.39	102.0	.5705
#3	5323.	347.2	440.6	40.97	105.4	2.314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2682**	**.3906**	**124.9**	**152.2**	**.4042**	**1.560**
Stddev	3.449	1.266	4.4	5.4	.5579	.157
%RSD	1286.	324.2	3.503	3.548	138.0	10.08
#1	-.1161	-.9613	121.3	146.5	.3676	1.708
#2	3.102	1.549	123.6	152.7	-.1345	1.395
#3	-3.791	.5840	129.8	157.2	.9795	1.575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152130-D-8-A@4 Acquired: 3/19/2018 22:55:23 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**12.92**	**16.15**	**1172.**	**1019.**
Stddev	1.37	.66	21.	53.
%RSD	10.62	4.074	1.787	5.188
#1	11.89	15.61	1153.	958.0
#2	12.40	15.95	1169.	1048.
#3	14.48	16.88	1195.	1051.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2859.6**	**26044.**	**2272.1**
Stddev	19.6	165.	45.5
%RSD	.68420	.63225	2.0021
#1	2881.9	26233.	2311.9
#2	2845.4	25959.	2282.0
#3	2851.5	25938.	2222.5

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 23:07:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50760.**	**12.31**	**-.7545**	**262.7**	**2.714**	**1763.**
Stddev	952.	3.83	.2740	2.8	.044	30.
%RSD	1.874	31.10	36.32	1.064	1.633	1.715
#1	50020.	16.10	-.9460	259.5	2.671	1736.
#2	50430.	8.444	-.4406	263.9	2.713	1757.
#3	51840.	12.38	-.8769	264.7	2.759	1795.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4016**	**34.29**	**95.52**	**92.02**	**81420.**	**3271.**
Stddev	.1727	.99	2.26	1.49	885.	56.
%RSD	43.02	2.881	2.368	1.622	1.087	1.719
#1	-.4194	33.32	94.17	91.77	80870.	3210.
#2	-.2206	35.29	94.27	90.67	80960.	3285.
#3	-.5646	34.27	98.14	93.62	82440.	3320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 23:07:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13410.**	**441.6**	**438.9**	**136.0**	**74.35**	**-.9227**
Stddev	138.	5.5	13.2	1.5	2.61	.8944
%RSD	1.029	1.244	3.013	1.123	3.513	96.93
#1	13330.	437.8	425.7	134.3	71.35	-1.654
#2	13320.	439.2	438.9	136.3	76.15	.0745
#3	13570.	447.9	452.1	137.3	75.53	-1.189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.113**	**.7743**	**166.4**	**204.8**	**2.293**	**.5351**
Stddev	2.926	.9299	2.0	3.0	.714	.3502
%RSD	262.9	120.1	1.201	1.451	31.11	65.45
#1	.8254	-.2258	165.5	201.7	1.846	.2173
#2	-4.479	1.613	165.0	205.0	1.917	.9105
#3	.3147	.9359	168.7	207.6	3.116	.4773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-2-A@4 Acquired: 3/19/2018 23:07:01 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**9.193**	**20.20**	**1292.**	**723.9**
Stddev	.970	.35	13.	29.1
%RSD	10.55	1.737	.9975	4.024
#1	8.077	19.86	1285.	691.5
#2	9.667	20.18	1284.	748.0
#3	9.834	20.56	1307.	732.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2841.4**	**25791.**	**2272.6**
Stddev	19.3	214.	48.4
%RSD	.68044	.83094	2.1293
#1	2862.2	25974.	2323.1
#2	2837.8	25843.	2268.2
#3	2824.1	25555.	2226.6

Sample Name: CCVL Acquired: 3/19/2018 23:22:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**232.5**	**14.83**	**10.12**	**218.6**	**2.207**	**5321.**
Stddev	18.6	1.06	.22	.3	.136	26.
%RSD	8.010	7.171	2.217	.1226	6.166	.4842
#1	211.2	14.18	10.37	218.3	2.347	5340.
#2	246.1	14.24	10.07	218.7	2.075	5332.
#3	240.0	16.05	9.933	218.7	2.199	5292.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.323**	**56.05**	**9.689**	**25.54**	**181.8**	**5123.**
Stddev	.042	.25	.264	.40	19.2	107.
%RSD	.9621	.4418	2.724	1.557	10.57	2.093
#1	4.360	55.81	9.989	25.81	188.7	5002.
#2	4.278	56.30	9.586	25.72	196.7	5206.
#3	4.330	56.03	9.491	25.08	160.1	5160.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/19/2018 23:22:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5468.**	**17.01**	**5181.**	**45.44**	**12.69**	**21.43**
Stddev	13.	.08	40.	.46	.93	1.09
%RSD	.2421	.4424	.7641	1.016	7.328	5.074
#1	5479.	17.05	5145.	45.00	13.16	21.06
#2	5471.	16.92	5223.	45.92	13.30	22.66
#3	5453.	17.05	5174.	45.40	11.62	20.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.70**	**20.96**	**55.93**	**34.26**	F **28.91**	**21.98**
Stddev	1.00	1.33	.82	1.15	1.04	.30
%RSD	4.394	6.349	1.474	3.348	3.587	1.382
#1	21.95	19.51	55.04	32.94	27.71	21.64
#2	23.84	22.12	56.12	35.05	29.57	22.21
#3	22.32	21.25	56.65	34.78	29.45	22.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/19/2018 23:22:32 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.32**	**20.82**	**22.90**	F **-170.7**
Stddev	1.87	.05	.19	42.9
%RSD	3.326	.2347	.8502	25.12
#1	54.19	20.78	22.86	-213.7
#2	57.11	20.88	22.73	-170.5
#3	57.68	20.82	23.12	-127.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2744.9**	**25076.**	**2231.7**
Stddev	6.9	74.	16.7
%RSD	.25137	.29584	.74851
#1	2752.8	25160.	2249.8
#2	2741.4	25019.	2216.8
#3	2740.4	25049.	2228.6

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 23:10:53 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**40030.**	**22.27**	**4.103**	**1076.**	**3.369**	**2768.**
Stddev	606.	1.48	.266	13.	.204	38.
%RSD	1.512	6.630	6.495	1.240	6.065	1.360
#1	39600.	23.94	4.114	1063.	3.331	2748.
#2	39770.	21.17	3.830	1077.	3.187	2745.
#3	40730.	21.68	4.363	1089.	3.590	2812.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.486**	**399.6**	**109.7**	**77.87**	F **203100.**	**3065.**
Stddev	.244	6.3	1.8	1.73	2996.	54.
%RSD	4.449	1.573	1.615	2.218	1.475	1.746
#1	5.515	393.2	108.3	77.24	201500.	3006.
#2	5.714	400.0	109.2	76.54	201300.	3077.
#3	5.228	405.7	111.7	79.82	206600.	3111.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 23:10:53 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7673.**	F **36950.**	**950.1**	**103.3**	**36.19**	**-2.585**
Stddev	114.	169.	13.0	1.2	1.50	1.338
%RSD	1.485	.4573	1.368	1.157	4.140	51.76
#1	7576.	36840.	961.1	101.9	34.54	-4.014
#2	7646.	36860.	935.8	103.9	36.57	-2.377
#3	7798.	37140.	953.6	104.1	37.46	-1.363
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-15.00				

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.000**	**16.85**	**101.6**	**233.6**	**-39.82**	**2.500**
Stddev	1.157	.78	1.6	6.1	.75	.571
%RSD	12.86	4.626	1.535	2.592	1.879	22.84
#1	8.212	16.48	100.5	226.7	-39.84	2.046
#2	8.459	16.32	100.9	236.1	-39.07	3.141
#3	10.33	17.74	103.4	238.0	-40.56	2.313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-3-A@4 Acquired: 3/19/2018 23:10:53 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.769**	**31.08**	**681.2**	**739.5**
Stddev	.859	.46	10.8	26.4
%RSD	11.05	1.495	1.585	3.563
#1	7.347	30.78	673.9	710.0
#2	8.757	30.85	676.0	748.0
#3	7.203	31.62	693.6	760.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2880.5**	**26052.**	**2254.9**
Stddev	26.6	229.	46.1
%RSD	.92507	.87876	2.0448
#1	2849.7	25795.	2204.7
#2	2895.4	26236.	2295.4
#3	2896.3	26125.	2264.6

Sample Name: CCV Acquired: 3/19/2018 23:14:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**129900.**	**2553.**	**1272.**	**10380.**	**1033.**	**129700.**
Stddev	304.	13.	2.	31.	3.	192.
%RSD	.2342	.5008	.1756	.3032	.2505	.1482
#1	130000.	2562.	1274.	10410.	1035.	129500.
#2	129500.	2539.	1270.	10350.	1030.	129800.
#3	130100.	2559.	1271.	10390.	1033.	129800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1292.**	**2607.**	**5175.**	**12760.**	**104700.**	**51990.**
Stddev	4.	9.	3.	47.	92.	138.
%RSD	.2920	.3554	.0532	.3707	.0879	.2654
#1	1296.	2608.	5178.	12810.	104600.	52140.
#2	1288.	2597.	5174.	12720.	104800.	51870.
#3	1293.	2615.	5174.	12760.	104700.	51970.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 23:14:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**130200.**	**5254.**	**130500.**	**2579.**	**7729.**	**1017.**
Stddev	580.	3.	452.	10.	26.	4.
%RSD	.4453	.0570	.3459	.3817	.3394	.4147
#1	129600.	5251.	131000.	2591.	7753.	1019.
#2	130500.	5257.	130100.	2572.	7701.	1013.
#3	130600.	5254.	130600.	2576.	7734.	1020.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2551.**	**2611.**	**2605.**	**2601.**	**1032.**	**2583.**
Stddev	5.	5.	.	13.	5.	11.
%RSD	.1962	.1835	.0169	.5116	.5172	.4436
#1	2550.	2613.	2606.	2615.	1037.	2594.
#2	2546.	2605.	2605.	2589.	1026.	2571.
#3	2556.	2614.	2605.	2598.	1033.	2584.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/19/2018 23:14:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1042.**	**5238.**	**10430.**	**9738.**
Stddev	4.	17.	8.	41.
%RSD	.3827	.3212	.0774	.4234
#1	1045.	5253.	10430.	9779.
#2	1038.	5220.	10420.	9737.
#3	1044.	5242.	10440.	9697.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2560.5**	**23152.**	**2073.1**
Stddev	6.6	158.	19.4
%RSD	.25934	.68300	.93458
#1	2562.1	23330.	2090.5
#2	2566.1	23026.	2076.4
#3	2553.2	23101.	2052.2

Sample Name: CCB Acquired: 3/19/2018 23:18:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.69**	**.2185**	**.1934**	**.1675**	**-.0828**	**3.930**
Stddev	7.79	3.042	.5408	.0601	.2782	1.214
%RSD	20.68	1392.	279.6	35.88	335.9	30.90
#1	45.86	2.793	-.1887	.1880	.2304	4.592
#2	30.34	1.000	.8122	.2147	-.1777	2.529
#3	36.87	-3.138	-.0432	.0998	-.3012	4.670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0090**	**.2689**	**-.7047**	**.6296**	**15.46**	**36.56**
Stddev	.0769	.2758	.8450	.6008	5.76	23.72
%RSD	855.6	102.5	119.9	95.43	37.27	64.89
#1	.0922	.0617	-.7146	.0915	14.56	30.94
#2	-.0057	.1631	-1.545	1.278	10.20	16.15
#3	-.0596	.5819	.1451	.5195	21.62	62.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 23:18:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.400**	**.1939**	**51.81**	**.1097**	**-.4792**	**.0503**
Stddev	5.578	.0638	10.19	.3055	1.329	.4823
%RSD	59.34	32.90	19.68	278.5	277.3	958.6
#1	4.715	.2216	63.58	.3739	-.5878	-.5014
#2	15.57	.2392	45.90	-.2248	-1.750	.2599
#3	7.915	.1209	45.95	.1800	.9007	.3924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.382**	**-.2428**	**.2454**	**-.1068**	**1.991**	**.3715**
Stddev	1.018	.4488	.5416	.0651	.227	.5198
%RSD	73.62	184.9	220.7	61.01	11.40	139.9
#1	1.412	-.3773	-.1423	-.0329	2.014	.9639
#2	2.384	-.6089	.0144	-.1559	1.754	.1595
#3	.3499	.2580	.8642	-.1315	2.206	-.0087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/19/2018 23:18:29 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0924**	**.0544**	**.3734**	**23.74**
Stddev	.6776	.2243	.4680	4.23
%RSD	733.0	411.9	125.3	17.81
#1	-.8547	.3000	.8831	28.58
#2	.4416	.0030	.2740	20.77
#3	.1358	-.1396	-.0370	21.87
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2754.4**	**25315.**	**2225.2**
Stddev	13.8	146.	19.5
%RSD	.50061	.57659	.87467
#1	2766.4	25433.	2243.7
#2	2739.3	25152.	2226.9
#3	2757.4	25360.	2204.9

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 23:26:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**64150.**	**64.49**	**.9531**	**390.3**	**3.867**	**5282.**
Stddev	826.	4.48	.4777	6.9	.172	107.
%RSD	1.287	6.953	50.12	1.773	4.443	2.023
#1	63260.	62.78	1.476	384.2	3.804	5182.
#2	64310.	61.12	.8444	388.8	3.736	5271.
#3	64890.	69.58	.5391	397.8	4.062	5395.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3137**	**118.9**	**161.4**	**183.2**	**133700.**	**2382.**
Stddev	.0534	2.3	2.9	3.5	2545.	18.
%RSD	17.02	1.974	1.772	1.920	1.904	.7363
#1	-.3021	116.8	158.6	179.7	131300.	2363.
#2	-.2671	118.4	161.3	183.0	133300.	2388.
#3	-.3720	121.4	164.3	186.8	136400.	2396.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 23:26:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9842.**	**1283.**	**1244.**	**102.4**	**64.08**	**1.852**
Stddev	203.	23.	13.	1.8	1.24	.730
%RSD	2.060	1.812	1.044	1.758	1.929	39.45
#1	9651.	1262.	1230.	101.0	63.29	1.419
#2	9821.	1279.	1245.	101.8	63.44	1.441
#3	10060.	1308.	1256.	104.4	65.50	2.695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.948**	**3.571**	**335.1**	**218.1**	**-3.265**	**13.28**
Stddev	2.667	1.152	5.4	6.9	.780	.20
%RSD	136.9	32.26	1.599	3.170	23.90	1.523
#1	4.299	4.796	330.3	210.8	-3.515	13.07
#2	2.497	3.405	334.0	219.0	-3.891	13.27
#3	-.9505	2.510	340.9	224.5	-2.391	13.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-4-A@4 Acquired: 3/19/2018 23:26:32 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**11.01**	**51.91**	**4227.**	**642.7**
Stddev	1.10	.45	76.	13.2
%RSD	9.964	.8693	1.805	2.048
#1	9.743	51.44	4155.	653.2
#2	11.66	51.96	4218.	647.0
#3	11.62	52.33	4307.	627.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**3008.4**	**27318.**	**2343.9**
Stddev	12.8	93.	21.0
%RSD	.42474	.34119	.89665
#1	2997.5	27287.	2323.9
#2	3005.4	27423.	2342.1
#3	3022.5	27244.	2365.8

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 23:49:47 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1711.**	**.5361**	**.0789**	**29.41**	**.2083**	**705.1**
Stddev	2560.	2.294	.3486	24.53	.3815	937.1
%RSD	149.6	428.0	441.7	83.41	183.1	132.9
#1	10.03	-1.836	-.3190	1.096	-.1273	48.77
#2	468.7	.6993	.3304	42.85	.1291	288.1
#3	4655.	2.744	.2254	44.30	.6232	1778.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5693**	**6.843**	**5.098**	**4.725**	**3720.**	**385.0**
Stddev	.4997	5.483	9.161	9.984	5146.	475.7
%RSD	87.77	80.13	179.7	211.3	138.3	123.6
#1	.2532	.5155	-1.204	-4.274	32.20	92.44
#2	1.145	10.20	.8910	2.983	1529.	128.7
#3	.3093	9.815	15.61	15.47	9598.	933.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 23:49:47 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**762.7**	**34.96**	**2365.**	**9.266**	**24.80**	**.1746**
Stddev	1038.	47.89	3551.	7.553	21.55	.5622
%RSD	136.1	137.0	150.1	81.51	86.90	321.9
#1	1.956	.1915	18.08	.5463	.0381	.7470
#2	340.4	15.10	627.7	13.49	35.04	.1538
#3	1946.	89.59	6450.	13.76	39.31	-.3769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.188**	**1.955**	**6.765**	**55.20**	**-23.70**	**.1969**
Stddev	1.842	1.394	7.672	46.26	1.73	.3845
%RSD	84.18	71.29	113.4	83.81	7.282	195.3
#1	-2.710	.4860	1.532	1.895	-21.74	-.2179
#2	-3.712	2.121	3.190	78.84	-24.99	.2668
#3	-.1416	3.259	15.57	84.86	-24.37	.5416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-4-E@4 Acquired: 3/19/2018 23:49:47 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**4.935**	**11.14**	**28.06**	F **-211.9**
Stddev	4.178	16.40	38.72	61.8
%RSD	84.67	147.2	138.0	29.18
#1	.1422	.0994	.2087	-270.4
#2	7.811	3.338	11.69	-217.9
#3	6.850	29.98	72.27	-147.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**4457.9**	**39074.**	**3254.9**
Stddev	690.9	9483.	770.7
%RSD	15.498	24.268	23.679
#1	3664.0	45700.	4025.8
#2	4787.2	28212.	2484.3
#3	4922.5	43311.	3254.6

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 23:53:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1488.**	**1.961**	**.2847**	**36.06**	**.1547**	**719.0**
Stddev	2210.	2.532	.1997	30.78	.1452	853.1
%RSD	148.6	129.1	70.16	85.36	93.82	118.6
#1	36.96	-.7261	.0737	1.931	.0915	45.03
#2	394.7	4.303	.4708	44.52	.0519	433.9
#3	4031.	2.306	.3097	61.72	.3208	1678.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	200.0					
Low Limit	-200.0					

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.7306**	**8.077**	**5.221**	**3.482**	F **3751.**	**382.6**
Stddev	.4250	6.653	8.387	9.893	4589.	487.2
%RSD	58.17	82.38	160.6	284.1	122.3	127.3
#1	.2771	.6959	-1.619	-4.989	3.851	50.39
#2	1.120	9.921	2.703	1.080	2380.	155.6
#3	.7948	13.61	14.58	14.35	8869.	941.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150.0	
Low Limit					-150.0	

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 23:53:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**765.4**	F **35.53**	**2206.**	**11.25**	F **31.05**	**-.0530**
Stddev	938.9	43.69	3246.	9.31	26.62	1.057
%RSD	122.7	123.0	147.2	82.76	85.72	1992.
#1	5.738	-.0647	5.311	.8640	2.052	-1.072
#2	475.5	22.37	678.3	14.04	36.73	-.1243
#3	1815.	84.29	5933.	18.85	54.37	1.038
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		15.00			10.00	
Low Limit		-15.00			-10.00	

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8442**	**2.896**	**6.861**	F **69.02**	**-22.51**	**.3102**
Stddev	.4130	.560	6.290	59.38	2.37	.4360
%RSD	48.92	19.34	91.67	86.03	10.52	140.6
#1	-1.143	2.263	1.788	3.106	-21.26	-.1912
#2	-.3729	3.326	4.896	85.64	-25.24	.6010
#3	-1.017	3.100	13.90	118.3	-21.02	.5207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				30.00		
Low Limit				-30.00		

Sample Name: MB 460-504337/1-A Acquired: 3/19/2018 23:53:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**6.852**	**9.831**	F **28.16**	**-178.2**
Stddev	6.018	14.76	34.91	53.5
%RSD	87.83	150.1	124.0	30.00
#1	.1599	.0241	-.1289	-224.2
#2	8.576	2.664	17.44	-190.9
#3	11.82	26.81	67.18	-119.6
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			20.00	
Low Limit			-20.00	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**4315.0**	**43719.**	**3274.8**
Stddev	566.7	8765.	810.9
%RSD	13.133	20.049	24.763
#1	3670.8	53346.	4087.7
#2	4736.6	36200.	2465.9
#3	4537.5	41612.	3270.8

Sample Name: LCS 460-504337/2-A Acquired: 3/19/2018 23:57:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1200.**	F **3.080**	F **.0783**	F **22.88**	F **.1333**	**309.8**
Stddev	1747.	1.869	.1242	18.00	.3037	424.4
%RSD	145.6	60.67	158.6	78.67	227.8	137.0
#1	20.78	2.038	-.0066	2.159	-.1158	46.55
#2	372.0	1.965	.0207	34.63	.0441	83.56
#3	3206.	5.237	.2208	31.85	.4716	799.4
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None
Value		2500.	250.0	5000.	500.0	
Range		-20.00%	-20.00%	-20.00%	-20.00%	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **.6186**	**5.239**	F **1.385**	F **-1.141**	**1494.**	**306.5**
Stddev	.4661	4.073	3.854	4.591	2269.	380.8
%RSD	75.35	77.75	278.3	402.2	151.9	124.2
#1	.1793	.5472	-.8743	-4.340	100.4	53.68
#2	1.108	7.873	-.8064	-3.203	269.4	121.4
#3	.5690	7.297	5.834	4.119	4112.	744.5
Check ?	Chk Fail	None	Chk Fail	Chk Fail	None	None
Value	500.0		2500.	500.0		
Range	-20.00%		-20.00%	-20.00%		

Sample Name: LCS 460-504337/2-A Acquired: 3/19/2018 23:57:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**310.0**	**14.51**	**1904.**	F **6.876**	F **20.35**	**-.6227**
Stddev	474.6	22.35	2720.	5.393	15.20	.7322
%RSD	153.1	154.0	142.8	78.44	74.72	117.6
#1	17.04	.6581	9.144	.6958	2.838	.2227
#2	55.32	2.579	682.9	10.63	30.20	-1.040
#3	857.5	40.30	5021.	9.299	28.00	-1.051
Check ?	None	None	None	Chk Fail	Chk Fail	None
Value				500.0	2500.	
Range				-20.00%	-20.00%	

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **-2.252**	**2.648**	**3.815**	F **43.76**	**-23.92**	**.1343**
Stddev	.592	1.542	3.237	35.02	3.49	.3079
%RSD	26.30	58.24	84.86	80.03	14.58	229.3
#1	-2.862	.8675	1.425	3.505	-19.91	-.2195
#2	-2.214	3.559	2.520	67.20	-25.61	.3416
#3	-1.679	3.519	7.498	60.58	-26.25	.2808
Check ?	Chk Fail	None	None	Chk Fail	None	None
Value	500.0			500.0		
Range	-20.00%			-20.00%		

Sample Name: LCS 460-504337/2-A Acquired: 3/19/2018 23:57:47 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**3.737**	**8.127**	**11.03**	**-204.5**
Stddev	3.120	11.72	17.22	43.9
%RSD	83.49	144.2	156.1	21.44
#1	.1490	.1203	.2266	-255.1
#2	5.813	2.680	1.985	-181.9
#3	5.248	21.58	30.89	-176.7
Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**4355.8**	**40845.**	**3037.2**
Stddev	669.8	5679.	590.5
%RSD	15.377	13.903	19.443
#1	3583.3	41784.	3612.7
#2	4774.0	34755.	2432.7
#3	4710.1	45995.	3066.1

Sample Name: Acquired: 3/19/2018 23:30:21 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.395**	**.8896**	**.1494**	**.0621**	**.0329**	**49.39**
Stddev	8.495	.6429	.2422	.0158	.0143	.77
%RSD	90.42	72.28	162.1	25.40	43.37	1.556
#1	7.995	1.612	.3880	.0474	.0179	49.84
#2	1.687	.3816	.1563	.0788	.0343	48.50
#3	18.50	.6747	-.0961	.0601	.0463	49.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4244**	**.5444**	**-1.147**	**-5.285**	**1.924**	**61.80**
Stddev	.0607	.1989	.276	.232	2.565	11.21
%RSD	14.31	36.54	24.09	4.394	133.3	18.14
#1	.4327	.3356	-.9662	-5.249	1.875	54.08
#2	.3599	.5658	-1.466	-5.073	-.6161	74.66
#3	.4806	.7317	-1.010	-5.533	4.513	56.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 23:30:21 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4746**	**-.0530**	**-.4608**	**.3315**	**.2734**	**-1.022**
Stddev	2.360	.0231	2.385	.1151	.4182	1.012
%RSD	497.2	43.54	517.5	34.71	153.0	98.97
#1	-2.110	-.0304	.1792	.2229	.7469	-2.044
#2	2.515	-.0520	1.539	.4521	.1185	-.0209
#3	1.018	-.0765	-3.100	.3194	-.0452	-1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.025**	**4.715**	**1.638**	**-.2376**	**-32.90**	**-.2131**
Stddev	1.124	.555	.645	.0669	.19	.0154
%RSD	27.93	11.78	39.39	28.16	.5879	7.235
#1	-3.882	5.295	2.379	-.3122	-32.99	-.1993
#2	-2.980	4.662	1.337	-.2180	-32.68	-.2297
#3	-5.215	4.188	1.199	-.1827	-33.03	-.2104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 3/19/2018 23:30:21 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-1.065**	**.0127**	**-.0237**	F **-286.1**
Stddev	.597	.0161	.0382	19.7
%RSD	56.01	127.4	161.5	6.890
#1	-.4677	.0106	.0188	-307.5
#2	-1.067	-.0023	-.0345	-282.2
#3	-1.661	.0297	-.0554	-268.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**5677.9**	**51981.**	**3636.2**
Stddev	106.8	1818.	159.5
%RSD	1.8814	3.4973	4.3863
#1	5570.7	54079.	3758.9
#2	5678.6	50870.	3455.9
#3	5784.4	50995.	3693.9

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 23:34:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33540.**	**15.06**	**.0886**	**296.8**	**1.763**	**12850.**
Stddev	546.	1.21	.6459	5.2	.265	188.
%RSD	1.627	8.060	729.3	1.760	15.02	1.464
#1	33010.	16.42	.8086	291.4	1.939	12670.
#2	33500.	14.66	-.1032	297.2	1.891	12840.
#3	34100.	14.10	-.4397	301.8	1.458	13050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0586**	**41.21**	**129.6**	**53.54**	**78430.**	**2737.**
Stddev	.1296	.54	2.0	.90	1235.	97.
%RSD	221.2	1.311	1.508	1.684	1.575	3.527
#1	-.0590	40.62	127.7	52.60	77190.	2648.
#2	.0712	41.32	129.5	53.63	78450.	2725.
#3	-.1880	41.68	131.6	54.39	79660.	2840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 23:34:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11940.**	**1468.**	**563.7**	**63.00**	**173.8**	**-.3059**
Stddev	129.	23.	22.9	1.55	4.5	1.820
%RSD	1.080	1.580	4.067	2.468	2.563	594.7
#1	11800.	1444.	537.3	61.69	171.3	-.8798
#2	11950.	1468.	578.7	62.59	171.1	1.731
#3	12060.	1491.	575.2	64.72	178.9	-1.769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.586**	**1.592**	**105.0**	**188.8**	**.4480**	**2.503**
Stddev	1.749	.894	2.9	6.6	.9307	.084
%RSD	48.76	56.15	2.766	3.515	207.7	3.342
#1	-1.571	2.364	101.6	181.6	-.6267	2.581
#2	-4.704	.6125	106.9	189.9	.9885	2.513
#3	-4.483	1.801	106.4	194.8	.9822	2.414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-5-A@4 Acquired: 3/19/2018 23:34:24 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.865**	**50.42**	**1438.**	**799.9**
Stddev	1.303	.91	24.	16.1
%RSD	16.57	1.809	1.697	2.008
#1	6.940	49.57	1412.	781.4
#2	7.301	50.31	1441.	808.2
#3	9.356	51.38	1461.	810.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2974.7**	**27208.**	**2409.0**
Stddev	6.3	292.	49.4
%RSD	.21312	1.0750	2.0517
#1	2968.0	26874.	2352.0
#2	2980.6	27417.	2434.9
#3	2975.5	27333.	2440.1

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 23:38:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39620.**	**31.91**	**.1053**	**139.0**	**2.541**	**13650.**
Stddev	521.	1.88	.3219	1.5	.052	156.
%RSD	1.315	5.889	305.6	1.081	2.065	1.139
#1	39130.	30.87	-.2634	137.6	2.486	13490.
#2	39570.	30.78	.2490	138.8	2.546	13660.
#3	40170.	34.08	.3303	140.6	2.591	13800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0854**	**171.3**	**109.8**	**107.5**	**100900.**	**2791.**
Stddev	.0803	1.4	1.8	.6	926.	47.
%RSD	94.12	.8216	1.647	.5959	.9180	1.667
#1	-.0432	169.8	107.9	107.0	99860.	2739.
#2	-.0349	171.6	111.5	107.2	101000.	2806.
#3	-.1780	172.5	110.0	108.2	101700.	2828.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 23:38:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14300.**	**2785.**	**1081.**	**72.78**	**36.56**	**.1807**
Stddev	111.	28.	20.	.55	.89	2.232
%RSD	.7748	1.001	1.853	.7590	2.423	1235.
#1	14180.	2757.	1063.	72.23	35.55	-1.908
#2	14340.	2785.	1077.	72.78	36.93	-.0819
#3	14390.	2813.	1102.	73.34	37.20	2.532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6416**	**2.945**	**167.2**	**174.3**	**.8502**	**4.561**
Stddev	3.146	.447	1.3	4.2	.3618	.467
%RSD	490.4	15.17	.7524	2.426	42.55	10.23
#1	-1.133	3.222	165.8	170.0	.4661	4.046
#2	-3.513	2.429	167.3	174.4	1.184	4.954
#3	2.721	3.183	168.3	178.5	.9001	4.685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-D-6-A@4 Acquired: 3/19/2018 23:38:16 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.343**	**69.70**	**1217.**	**951.9**
Stddev	.165	.41	11.	25.9
%RSD	2.252	.5895	.8679	2.716
#1	7.422	69.31	1206.	931.3
#2	7.454	69.67	1218.	943.5
#3	7.153	70.13	1228.	980.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2832.4**	**25953.**	**2286.0**
Stddev	10.7	75.	9.1
%RSD	.37850	.29007	.39993
#1	2832.4	25997.	2295.6
#2	2843.1	25866.	2284.8
#3	2821.7	25996.	2277.4

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 23:42:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8416.**	**42.48**	**2.672**	**1757.**	**-.3365**	**51340.**
Stddev	138.	1.77	.066	50.	.1794	630.
%RSD	1.643	4.165	2.481	2.825	53.30	1.227
#1	8275.	41.00	2.738	1751.	-.5392	50760.
#2	8422.	42.01	2.606	1809.	-.2718	51260.
#3	8551.	44.44	2.672	1710.	-.1984	52010.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.467**	**23.20**	**2373.**	**1674.**	**88750.**	**6131.**
Stddev	.397	.39	27.	17.	968.	120.
%RSD	8.893	1.680	1.140	1.003	1.091	1.948
#1	4.518	23.03	2347.	1655.	87860.	5998.
#2	4.836	23.64	2370.	1681.	88600.	6165.
#3	4.046	22.92	2401.	1687.	89780.	6230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 23:42:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5105.**	**1752.**	**1945.**	**57.75**	**120.3**	**204.4**
Stddev	86.	20.	17.	1.76	4.3	6.6
%RSD	1.687	1.115	.8731	3.042	3.554	3.241
#1	5023.	1733.	1927.	56.95	120.1	201.3
#2	5097.	1752.	1946.	59.76	124.7	212.0
#3	5195.	1772.	1961.	56.53	116.1	199.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.070**	**2.107**	**14.79**	F **10680.**	**280.1**	**1.475**
Stddev	1.992	2.362	1.32	341.	8.5	.149
%RSD	48.94	112.1	8.895	3.197	3.045	10.10
#1	2.408	3.605	16.18	10660.	272.4	1.647
#2	6.278	-.6153	14.64	11030.	289.3	1.383
#3	3.524	3.332	13.56	10350.	278.6	1.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Sample Name: 460-152136-E-2-A@4 Acquired: 3/19/2018 23:42:06 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**46.75**	**7685.**	**1612.**	**1155.**
Stddev	1.64	110.	22.	55.
%RSD	3.514	1.425	1.356	4.726
#1	44.90	7574.	1589.	1172.
#2	48.05	7686.	1615.	1198.
#3	47.28	7793.	1632.	1094.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2789.9**	**24841.**	**2128.0**
Stddev	128.9	143.	13.6
%RSD	4.6208	.57554	.64128
#1	2745.7	24706.	2117.9
#2	2688.8	24991.	2143.5
#3	2935.0	24826.	2122.5

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 23:45:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29660.**	**10.26**	**.3162**	**302.3**	**3.731**	**10550.**
Stddev	464.	4.59	.6654	4.8	.205	192.
%RSD	1.566	44.71	210.5	1.572	5.486	1.821
#1	29160.	5.028	1.044	298.0	3.601	10420.
#2	29730.	12.14	.1646	301.5	3.967	10450.
#3	30080.	13.60	-.2604	307.4	3.625	10770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.158**	**65.15**	**104.6**	**139.3**	**57270.**	**6102.**
Stddev	.168	1.35	1.8	2.8	919.	122.
%RSD	14.52	2.070	1.764	2.017	1.604	2.003
#1	1.008	63.75	103.5	137.3	56660.	5975.
#2	1.339	65.27	103.6	138.2	56830.	6114.
#3	1.125	66.44	106.8	142.5	58330.	6218.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 23:45:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12110.**	**533.0**	**41570.**	**91.32**	**248.5**	**2.322**
Stddev	245.	8.7	743.	1.89	6.1	1.740
%RSD	2.020	1.631	1.788	2.073	2.447	74.93
#1	11930.	527.5	40850.	89.28	242.3	2.477
#2	12000.	528.5	41530.	91.67	248.9	3.979
#3	12390.	543.0	42340.	93.02	254.4	.5098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.091**	**.5167**	**85.11**	**539.0**	**24.50**	**3.871**
Stddev	1.362	1.103	2.01	21.6	1.50	.398
%RSD	65.16	213.4	2.364	4.012	6.141	10.29
#1	2.755	.7587	83.35	516.3	23.02	3.801
#2	2.994	1.478	84.67	541.3	24.46	3.512
#3	.5238	-.6868	87.30	559.3	26.03	4.299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152161-E-3-E@4 Acquired: 3/19/2018 23:45:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**59.61**	**201.1**	**443.1**	**841.2**
Stddev	2.32	2.5	7.0	23.5
%RSD	3.887	1.248	1.578	2.790
#1	57.94	198.6	438.1	816.6
#2	58.63	201.2	440.2	843.5
#3	62.25	203.6	451.1	863.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2853.8**	**26016.**	**2301.3**
Stddev	1.1	234.	18.7
%RSD	.03755	.89826	.81301
#1	2854.5	25908.	2306.1
#2	2852.6	26284.	2317.1
#3	2854.3	25855.	2280.6

Sample Name: CCV Acquired: 3/20/2018 0:33:44 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**129500.**	**2570.**	**1273.**	**10410.**	**1031.**	**129200.**
Stddev	724.	12.	1.	14.	6.	443.
%RSD	.5587	.4628	.0429	.1307	.5734	.3424
#1	130300.	2580.	1273.	10410.	1037.	128800.
#2	129000.	2574.	1273.	10390.	1026.	129300.
#3	129200.	2557.	1272.	10420.	1028.	129600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1295.**	**2604.**	**5180.**	**12800.**	**104400.**	**51710.**
Stddev	1.	6.	13.	26.	278.	273.
%RSD	.0746	.2202	.2583	.2043	.2660	.5275
#1	1296.	2601.	5173.	12830.	104100.	52030.
#2	1295.	2601.	5172.	12780.	104300.	51570.
#3	1294.	2611.	5195.	12780.	104700.	51540.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/20/2018 0:33:44 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**129200.**	**5237.**	**128400.**	**2589.**	**7757.**	**1023.**
Stddev	484.	11.	740.	6.	9.	5.
%RSD	.3742	.2058	.5761	.2145	.1158	.4709
#1	128700.	5225.	129300.	2595.	7766.	1027.
#2	129300.	5242.	127900.	2589.	7757.	1023.
#3	129700.	5245.	128100.	2584.	7748.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2555.**	**2608.**	**2595.**	**2603.**	**1038.**	**2590.**
Stddev	19.	5.	5.	3.	6.	2.
%RSD	.7377	.2046	.2118	.1343	.5982	.0783
#1	2559.	2611.	2588.	2602.	1041.	2590.
#2	2572.	2611.	2598.	2599.	1043.	2588.
#3	2535.	2602.	2598.	2606.	1031.	2592.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/20/2018 0:33:44 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1040.**	**5223.**	**10420.**	**9860.**
Stddev	4.	29.	24.	54.
%RSD	.3426	.5521	.2287	.5472
#1	1038.	5257.	10390.	9911.
#2	1044.	5210.	10420.	9866.
#3	1038.	5204.	10440.	9803.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2535.8**	**23102.**	**2083.0**
Stddev	13.1	93.	26.9
%RSD	.51544	.40176	1.2916
#1	2530.5	23131.	2073.3
#2	2550.6	23177.	2113.4
#3	2526.2	22998.	2062.4

Sample Name: 460-151968-K-1-G DU Acquired: 3/20/2018 0:01:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**105.2**	**.0403**	**-.1226**	**10.95**	**.0247**	**72.15**
Stddev	151.8	.5834	.1080	17.90	.1850	65.10
%RSD	144.4	1449.	88.06	163.4	749.8	90.23
#1	21.45	.3659	-.2312	.0590	.2341	48.03
#2	13.64	.3881	-.1214	1.187	-.0433	22.55
#3	280.4	-.6333	-.0153	31.61	-.1167	145.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4455**	**3.022**	**-.3169**	**-1.830**	**267.9**	**95.83**
Stddev	.3581	4.026	.7759	3.443	411.7	12.95
%RSD	80.38	133.2	244.8	188.1	153.7	13.51
#1	.3792	.6402	-1.032	-5.390	10.29	108.1
#2	.1251	.7545	-.4261	-1.583	50.77	82.27
#3	.8321	7.670	.5078	1.482	742.7	97.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-G DU Acquired: 3/20/2018 0:01:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**60.37**	**2.466**	**149.7**	**3.566**	**9.514**	**-.4375**
Stddev	91.44	4.175	242.6	5.549	14.40	1.079
%RSD	151.5	169.3	162.1	155.6	151.4	246.5
#1	4.578	-.1036	20.64	.4174	.1617	-1.654
#2	10.63	.2186	-1.088	.3076	2.280	.4028
#3	165.9	7.284	429.5	9.973	26.10	-.0617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.559**	**2.066**	**2.217**	**20.40**	**-22.31**	**-.0900**
Stddev	2.973	1.827	.112	34.22	5.85	.2500
%RSD	190.7	88.42	5.048	167.7	26.20	277.8
#1	-4.848	4.175	2.187	-.1417	-27.60	-.1598
#2	.9382	1.031	2.123	1.440	-16.03	-.2976
#3	-.7681	.9917	2.340	59.91	-23.29	.1875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-G DU Acquired: 3/20/2018 0:01:48 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.349**	**.7047**	**1.787**	**-168.6**
Stddev	3.206	1.130	3.401	66.1
%RSD	237.7	160.3	190.3	39.24
#1	-1.062	.0120	-.2574	-244.8
#2	.1205	.0935	-.0940	-134.3
#3	4.987	2.008	5.713	-126.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**3977.9**	**36372.**	**3008.5**
Stddev	899.2	14379.	802.1
%RSD	22.605	39.532	26.660
#1	4834.2	52875.	3907.5
#2	3041.2	29701.	2751.4
#3	4058.3	26541.	2366.5

Sample Name: CCVL Acquired: 3/20/2018 0:41:24 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**226.5**	**13.06**	**10.23**	**213.7**	**1.942**	**5313.**
Stddev	10.5	.34	.40	7.7	.181	32.
%RSD	4.637	2.638	3.925	3.618	9.302	.5948
#1	219.0	12.66	10.69	218.5	2.127	5323.
#2	238.5	13.25	9.993	217.8	1.932	5278.
#3	221.9	13.26	10.01	204.8	1.766	5339.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.192**	**55.56**	**9.608**	**26.20**	**176.6**	**5125.**
Stddev	.219	1.62	.562	.36	16.5	56.
%RSD	5.221	2.920	5.848	1.386	9.364	1.091
#1	4.401	56.48	10.07	26.45	166.8	5094.
#2	4.210	56.52	9.771	25.79	195.7	5190.
#3	3.964	53.69	8.982	26.38	167.4	5092.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/20/2018 0:41:24 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5559.**	**16.79**	**5210.**	**44.22**	**11.46**	**21.00**
Stddev	35.	.20	80.	1.59	1.21	1.01
%RSD	.6286	1.182	1.530	3.592	10.57	4.811
#1	5597.	17.02	5187.	44.72	10.24	21.51
#2	5529.	16.64	5298.	45.49	12.66	21.65
#3	5550.	16.72	5144.	42.44	11.46	19.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.28**	**20.43**	**56.96**	**33.92**	F **28.54**	**21.73**
Stddev	3.76	1.17	1.08	1.13	2.60	.67
%RSD	18.54	5.723	1.888	3.336	9.100	3.083
#1	16.87	21.17	58.17	33.32	28.08	21.71
#2	24.31	21.04	56.10	35.23	31.34	22.41
#3	19.64	19.08	56.63	33.22	26.20	21.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/20/2018 0:41:24 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.06**	**20.68**	**23.20**	F **-207.3**
Stddev	3.10	.17	.43	25.1
%RSD	5.532	.8374	1.848	12.13
#1	54.70	20.59	23.41	-180.5
#2	59.60	20.88	22.71	-211.0
#3	53.86	20.57	23.49	-230.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2792.0**	**24973.**	**2229.6**
Stddev	103.6	131.	38.7
%RSD	3.7098	.52294	1.7345
#1	2729.6	24948.	2249.8
#2	2734.8	25114.	2185.0
#3	2911.5	24856.	2254.0

Sample Name: CCV Acquired: 3/20/2018 0:05:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **2685.**	F **1.242**	F **-.0219**	F **21.40**	F **.4828**	F **526.1**
Stddev	2534.	.254	.0317	19.58	.3446	404.3
%RSD	94.36	20.41	144.6	91.46	71.37	76.84
#1	18.58	1.328	-.0568	20.93	.0994	62.95
#2	2976.	1.442	-.0139	41.21	.5822	808.1
#3	5061.	.9569	.0050	2.069	.7667	707.2
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	2500.	1250.	10000.	1000.	125000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **.3718**	F **4.913**	F **3.052**	F **1.854**	F **2579.**	F **695.3**
Stddev	.6786	4.170	3.271	3.602	2088.	566.8
%RSD	182.5	84.87	107.2	194.3	80.96	81.52
#1	.7568	4.792	-.6945	-2.286	188.3	87.03
#2	.7705	9.142	5.346	4.273	4045.	790.1
#3	-.4117	.8054	4.503	3.574	3503.	1209.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1250.	2500.	5000.	12500.	100000.	50000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Sample Name: CCV Acquired: 3/20/2018 0:05:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **554.8**	F **24.71**	F **4298.**	F **6.589**	F **19.70**	F **-.4354**
Stddev	445.7	20.19	4026.	5.851	17.10	2.753
%RSD	80.33	81.70	93.68	88.80	86.79	632.2
#1	44.84	1.623	13.43	6.611	19.45	.4844
#2	869.6	39.04	4877.	12.43	36.92	1.740
#3	750.0	33.47	8003.	.7271	2.727	-3.530
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	5000.	125000.	2500.	7500.	1000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **-2.045**	F **1.547**	F **5.412**	F **39.77**	F **-20.62**	F **-.0449**
Stddev	1.843	2.451	3.043	37.70	5.15	.4353
%RSD	90.11	158.4	56.23	94.79	24.97	969.5
#1	-3.362	3.098	1.929	37.37	-25.35	.0955
#2	-2.834	2.821	7.552	78.62	-21.36	.3029
#3	.0609	-1.278	6.756	3.330	-15.14	-.5331
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2500.	2500.	2500.	2500.	1000.	2500.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Sample Name: CCV Acquired: 3/20/2018 0:05:52 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **3.848**	F **18.34**	F **19.24**	**-111.6**
Stddev	3.624	17.51	15.90	146.5
%RSD	94.20	95.44	82.65	131.3
#1	3.802	-.0607	1.009	-231.7
#2	7.494	20.30	30.24	-154.7
#3	.2460	34.79	26.47	51.68
Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	1000.	5000.	10000.	
Range	-10.50%	-10.50%	-10.50%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**3813.7**	**38958.**	**3200.7**
Stddev	667.0	3147.	613.8
%RSD	17.489	8.0787	19.176
#1	4192.6	35656.	3834.1
#2	4204.9	41924.	3159.4
#3	3043.6	39295.	2608.6

Sample Name: CCB Acquired: 3/20/2018 0:09:49 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13.55**	**-.3311**	**-.1525**	**.0276**	**.0504**	**6.946**
Stddev	8.42	2.539	.0610	.0728	.1788	12.23
%RSD	62.13	766.7	40.02	263.7	354.7	176.0
#1	22.28	-2.485	-.1023	.0643	.2544	19.30
#2	12.88	-.9767	-.2204	-.0562	-.0792	-5.150
#3	5.486	2.468	-.1348	.0746	-.0240	6.688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1743**	**.3132**	**-.6374**	**-.1570**	**4.162**	**29.47**
Stddev	.0639	.3645	.3363	.1846	14.06	33.06
%RSD	36.67	116.4	52.76	117.6	337.7	112.2
#1	-.2401	.4114	-.2614	.0462	6.621	.0770
#2	-.1124	-.0903	-.7414	-.2028	16.83	65.26
#3	-.1705	.6185	-.9094	-.3143	-10.96	23.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/20/2018 0:09:49 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.654**	**-.0548**	**20.83**	**-.2631**	**.1013**	**-.3171**
Stddev	2.701	.0524	14.44	.0542	1.122	1.616
%RSD	101.8	95.77	69.34	20.61	1107.	509.7
#1	1.394	-.0885	35.60	-.3243	1.207	1.043
#2	.8128	-.0815	20.15	-.2440	.1339	.1097
#3	5.754	.0057	6.740	-.2210	-1.037	-2.104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2152**	**-.5837**	**.6653**	**-.2142**	**-.1854**	**-.5940**
Stddev	3.356	1.134	.6604	.0619	1.866	.1789
%RSD	1560.	194.4	99.26	28.89	1006.	30.11
#1	2.416	-.1032	.9839	-.2832	-.5812	-.7137
#2	-3.995	-1.879	1.106	-.1636	1.847	-.6799
#3	.9333	.2314	-.0940	-.1959	-1.822	-.3884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/20/2018 0:09:49 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.9917**	**-.0292**	**-.1738**	**7.330**
Stddev	1.029	.0952	.0933	6.092
%RSD	103.8	326.0	53.66	83.11
#1	-1.954	.0739	-.0865	1.029
#2	.0933	-.1137	-.1629	13.19
#3	-1.114	-.0478	-.2720	7.773
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2812.5**	**25461.**	**2237.5**
Stddev	76.7	402.	65.2
%RSD	2.7286	1.5794	2.9121
#1	2740.9	25200.	2202.3
#2	2803.2	25260.	2197.5
#3	2893.5	25924.	2312.7

Sample Name: CCVL Acquired: 3/20/2018 0:13:51 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**223.5**	**14.19**	**10.65**	**218.3**	**2.125**	**5338.**
Stddev	8.6	2.57	.38	.1	.229	26.
%RSD	3.863	18.08	3.607	.0526	10.76	.4946
#1	224.4	17.14	11.07	218.2	2.335	5367.
#2	231.6	12.89	10.32	218.2	2.159	5330.
#3	214.4	12.53	10.56	218.4	1.881	5316.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.303**	**56.02**	**9.881**	**25.26**	**181.2**	**5251.**
Stddev	.107	.34	.490	.59	16.6	26.
%RSD	2.495	.6095	4.962	2.329	9.183	.4952
#1	4.370	55.68	10.31	25.82	200.4	5234.
#2	4.180	56.01	9.349	25.30	171.1	5237.
#3	4.360	56.37	9.980	24.65	172.1	5281.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/20/2018 0:13:51 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5421.**	**16.77**	**5232.**	**45.35**	**11.36**	**22.17**
Stddev	27.	.16	82.	.15	.70	1.43
%RSD	.5069	.9351	1.568	.3387	6.188	6.458
#1	5393.	16.59	5312.	45.19	10.91	22.81
#2	5448.	16.86	5148.	45.35	11.00	23.17
#3	5421.	16.87	5237.	45.50	12.17	20.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.28**	**22.27**	**55.74**	**34.52**	F **28.60**	**22.14**
Stddev	2.78	.50	1.20	.85	2.27	.52
%RSD	14.44	2.236	2.150	2.458	7.945	2.350
#1	21.11	21.72	55.55	33.56	26.00	21.61
#2	16.08	22.40	54.64	35.17	30.20	22.65
#3	20.66	22.69	57.01	34.82	29.61	22.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Sample Name: CCVL Acquired: 3/20/2018 0:13:51 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**56.76**	**20.87**	**22.42**	F **-176.1**
Stddev	1.14	.35	.47	16.5
%RSD	2.005	1.693	2.106	9.396
#1	55.59	21.25	22.02	-195.1
#2	56.82	20.55	22.29	-167.8
#3	57.87	20.81	22.94	-165.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2745.3**	**25011.**	**2191.6**
Stddev	6.8	168.	33.9
%RSD	.24816	.67120	1.5465
#1	2753.0	25181.	2227.5
#2	2740.0	24846.	2187.3
#3	2743.0	25007.	2160.1

Sample Name: 460-151968-K-1-F@50 Acquired: 3/20/2018 0:17:52 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13.69**	**-.2131**	**.6315**	**.4965**	**.0488**	**394.2**
Stddev	11.20	.9351	.6097	.0627	.0618	5.1
%RSD	81.83	438.9	96.54	12.62	126.7	1.299
#1	14.30	-.6365	.0299	.5602	.1115	391.7
#2	24.56	-.8616	.6157	.4945	-.0119	390.8
#3	2.192	.8589	1.249	.4349	.0466	400.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.578**	**20.52**	**-.0251**	**1.185**	**20.70**	**111.3**
Stddev	.070	.27	.0379	.291	6.73	42.5
%RSD	4.414	1.322	150.8	24.55	32.54	38.16
#1	1.632	20.31	-.0022	1.130	27.60	104.6
#2	1.602	20.82	-.0043	1.499	14.14	156.8
#3	1.499	20.42	-.0688	.9249	20.36	72.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-F@50 Acquired: 3/20/2018 0:17:52 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**89.96**	**.1699**	F **342800.**	**3.761**	**.6231**	**2.320**
Stddev	4.18	.0403	1256.	.437	1.065	.804
%RSD	4.648	23.72	.3664	11.61	171.0	34.66
#1	87.27	.1721	343800.	3.261	-.2102	3.241
#2	94.78	.1285	343400.	4.067	.2560	1.962
#3	87.83	.2090	341400.	3.955	1.824	1.756
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48.17**	**-.7368**	**.7271**	**1.283**	**36.09**	**-.4373**
Stddev	4.13	1.018	.1443	.166	1.18	.2742
%RSD	8.576	138.2	19.85	12.94	3.274	62.70
#1	51.09	.1383	.6158	1.161	35.79	-.6734
#2	49.98	-.4947	.8902	1.216	37.39	-.5020
#3	43.45	-1.854	.6754	1.472	35.09	-.1366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-F@50 Acquired: 3/20/2018 0:17:52 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1187**	**1.853**	**-.3574**	**33.93**
Stddev	.1674	.018	.2102	46.76
%RSD	141.1	.9636	58.80	137.8
#1	-.1866	1.874	-.5869	-20.05
#2	.0721	1.842	-.1744	59.93
#3	-.2414	1.844	-.3110	61.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2691.9**	**23613.**	**2259.7**
Stddev	34.1	277.	8.7
%RSD	1.2665	1.1722	.38559
#1	2719.4	23697.	2269.8
#2	2653.8	23838.	2255.3
#3	2702.7	23304.	2254.1

Sample Name: sd 460-151968-K-1-F Acquired: 3/20/2018 0:21:55 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.19**	**.5214**	**-.0095**	**.0064**	**-.0776**	**80.14**
Stddev	7.18	1.897	.4703	.0189	.0717	10.25
%RSD	58.85	363.9	4950.	293.9	92.38	12.78
#1	20.48	-1.030	.4151	.0266	-.1602	69.42
#2	7.967	-.0419	-.5150	-.0108	-.0330	81.17
#3	8.133	2.637	.0714	.0035	-.0395	89.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2652**	**4.198**	**-.3633**	**-.0510**	**14.43**	**23.28**
Stddev	.0657	.235	1.135	.6461	14.70	66.06
%RSD	24.78	5.603	312.5	1267.	101.9	283.8
#1	.2730	3.928	-1.094	-.6204	22.85	58.49
#2	.3266	4.308	.9446	.6511	-2.542	-52.93
#3	.1959	4.359	-.9407	-.1836	22.99	64.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151968-K-1-F Acquired: 3/20/2018 0:21:55 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26.47**	**-.0001**	**67240.**	**.6232**	**-.1094**	**1.269**
Stddev	3.21	.0575	474.	.2883	1.082	1.971
%RSD	12.12	95570.	.7047	46.26	988.5	155.4
#1	29.40	-.0660	66820.	.3020	.9339	2.997
#2	26.97	.0401	67750.	.7081	-1.226	-.8785
#3	23.04	.0256	67130.	.8595	-.0363	1.688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.23**	**.8253**	**.4187**	**.2583**	**5.249**	**-.5644**
Stddev	2.15	.8867	.4448	.1647	1.127	.2070
%RSD	21.03	107.4	106.2	63.77	21.48	36.67
#1	7.779	.1121	.9322	.2469	6.550	-.5642
#2	11.82	1.818	.1670	.4283	4.646	-.3575
#3	11.08	.5456	.1568	.0995	4.552	-.7714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-151968-K-1-F Acquired: 3/20/2018 0:21:55 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1689**	**.3070**	**-.2923**	**-5.911**
Stddev	.7816	.0538	.1518	11.93
%RSD	462.8	17.53	51.93	201.8
#1	.3216	.3503	-.3805	7.403
#2	.2421	.3239	-.1170	-15.63
#3	-1.070	.2467	-.3795	-9.503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2850.2**	**24510.**	**2232.2**
Stddev	110.5	187.	7.7
%RSD	3.8764	.76348	.34361
#1	2724.3	24335.	2240.5
#2	2930.7	24707.	2225.3
#3	2895.7	24488.	2231.0

Sample Name: 460-151968-K-1-H MS Acquired: 3/20/2018 0:25:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**112.8**	**95.08**	**9.936**	**16.55**	**19.86**	**816.9**
Stddev	12.0	4.72	.346	.60	.05	10.6
%RSD	10.65	4.966	3.483	3.606	.2504	1.303
#1	116.0	100.4	9.921	17.23	19.92	816.0
#2	122.9	91.39	10.29	16.12	19.84	828.0
#3	99.53	93.46	9.597	16.30	19.83	806.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.17**	**40.55**	**109.9**	**21.98**	**35.61**	**478.9**
Stddev	.77	1.20	.7	.70	9.04	50.2
%RSD	3.492	2.961	.6636	3.206	25.38	10.48
#1	23.04	41.89	109.4	21.65	25.24	424.0
#2	21.57	39.58	110.7	21.51	41.81	522.3
#3	21.89	40.17	109.5	22.79	39.78	490.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-H MS Acquired: 3/20/2018 0:25:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**522.2**	**22.37**	F **339400.**	**24.26**	**39.25**	**21.38**
Stddev	14.3	.86	4088.	.57	.73	1.15
%RSD	2.742	3.842	1.204	2.352	1.857	5.379
#1	510.6	21.64	342500.	24.91	39.06	22.39
#2	517.8	22.15	340900.	23.86	38.63	20.13
#3	538.2	23.32	334800.	24.01	40.05	21.61
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**70.15**	**17.96**	**12.74**	**23.16**	**55.53**	**20.76**
Stddev	3.61	1.11	1.18	.17	.75	.19
%RSD	5.150	6.195	9.280	.7342	1.346	.9124
#1	72.96	16.73	11.45	22.99	56.39	20.78
#2	71.42	18.26	12.98	23.16	55.11	20.56
#3	66.08	18.90	13.77	23.33	55.08	20.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-151968-K-1-H MS Acquired: 3/20/2018 0:25:57 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**20.27**	**19.57**	**22.35**	**64.16**
Stddev	1.13	.13	.83	18.59
%RSD	5.564	.6796	3.734	28.97
#1	21.21	19.68	21.85	43.26
#2	19.02	19.61	21.88	70.40
#3	20.57	19.43	23.31	78.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2764.0**	**23589.**	**2229.9**
Stddev	94.4	180.	28.2
%RSD	3.4170	.76397	1.2652
#1	2658.1	23781.	2258.6
#2	2839.4	23564.	2202.2
#3	2794.6	23423.	2228.8

Sample Name: pds 460-151968-K-1-F Acquired: 3/20/2018 0:29:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1973.**	**1927.**	**47.89**	**1969.**	**48.16**	**19790.**
Stddev	20.	14.	.40	8.	1.02	158.
%RSD	1.025	.7147	.8411	.3906	2.122	.7981
#1	1983.	1938.	47.74	1977.	48.24	19610.
#2	1986.	1930.	47.58	1966.	49.14	19900.
#3	1950.	1911.	48.34	1963.	47.10	19850.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**51.51**	**527.3**	**203.6**	**242.3**	**1052.**	**19080.**
Stddev	.55	4.7	1.0	2.3	8.	153.
%RSD	1.062	.8821	.4937	.9584	.8007	.8012
#1	51.87	531.7	202.4	239.6	1042.	19100.
#2	51.79	527.9	204.4	244.0	1057.	19230.
#3	50.88	522.4	203.9	243.3	1057.	18920.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151968-K-1-F Acquired: 3/20/2018 0:29:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19000.**	**490.5**	F **353600.**	**496.9**	**481.5**	**468.5**
Stddev	131.	3.9	3634.	5.0	4.4	4.2
%RSD	.6897	.7883	1.028	1.011	.9047	.9016
#1	18850.	486.2	355600.	501.4	486.0	469.7
#2	19090.	493.5	355800.	497.8	481.2	472.0
#3	19060.	491.9	349400.	491.5	477.3	463.8
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2025.**	**2002.**	**516.1**	**528.5**	**541.2**	**510.4**
Stddev	15.	18.	3.4	3.3	2.6	3.9
%RSD	.7295	.9090	.6530	.6214	.4820	.7585
#1	2037.	2017.	512.2	531.7	543.9	513.3
#2	2028.	2007.	518.6	528.5	541.0	511.9
#3	2008.	1981.	517.3	525.2	538.7	506.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-151968-K-1-F Acquired: 3/20/2018 0:29:59 Type: Unk
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**512.9**	**474.9**	**496.8**	**30.52**
Stddev	3.2	5.2	3.9	38.27
%RSD	.6175	1.094	.7815	125.4
#1	511.1	476.5	492.3	-13.64
#2	516.6	479.1	499.4	51.14
#3	511.0	469.1	498.6	54.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2615.9**	**23484.**	**2166.9**
Stddev	9.3	234.	14.7
%RSD	.35574	.99625	.67869
#1	2614.0	23739.	2179.4
#2	2626.0	23432.	2150.7
#3	2607.7	23280.	2170.6

Sample Name: CCB Acquired: 3/20/2018 0:37:22 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.66**	**-1.438**	**.3813**	**.2069**	**.0014**	**3.069**
Stddev	8.55	2.682	.6039	.0320	.1826	3.153
%RSD	73.33	186.5	158.4	15.45	12990.	102.7
#1	5.713	1.565	.8908	.2222	-.0733	-.4777
#2	7.804	-2.286	-.2857	.1701	-.1320	4.129
#3	21.45	-3.594	.5389	.2283	.2095	5.554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0104**	**.2554**	**-1.069**	**-.0500**	**9.342**	**15.86**
Stddev	.0964	.4702	.674	.4331	6.213	31.50
%RSD	927.6	184.1	63.02	865.6	66.50	198.6
#1	.0070	-.2553	-1.799	-.5101	2.169	-6.198
#2	-.0843	.3513	-.4711	.3498	12.90	51.94
#3	.1085	.6702	-.9369	.0102	12.96	1.849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/20/2018 0:37:22 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

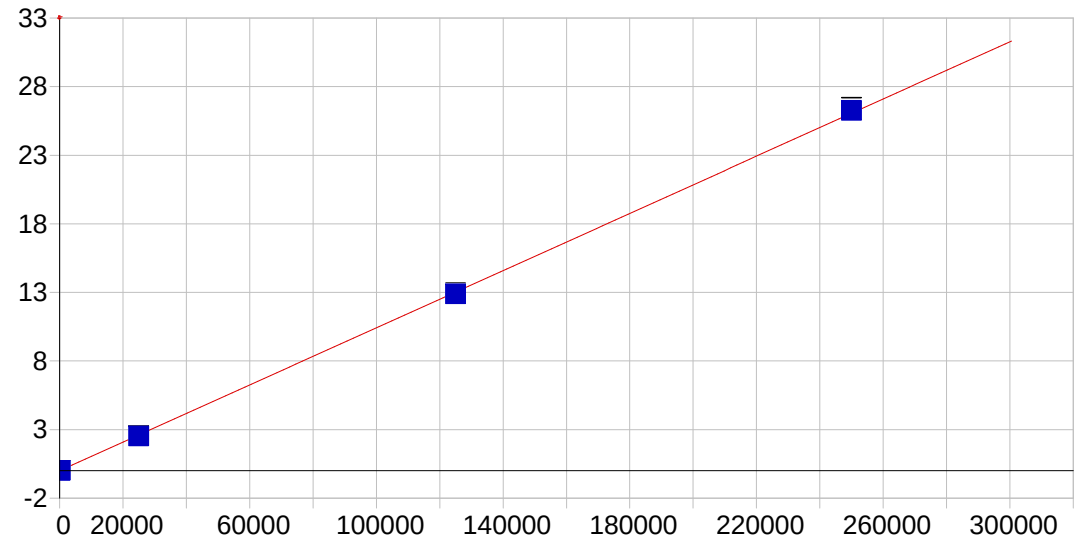
Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.9414**	**.1462**	**92.71**	**-.0065**	**-.6098**	**.8827**
Stddev	3.929	.0751	26.06	.4815	.4745	1.513
%RSD	417.4	51.35	28.10	7379.	77.81	171.4
#1	-1.564	.1350	122.8	.1148	-.1693	1.734
#2	5.470	.2262	76.42	-.5371	-.5480	-.8640
#3	-1.082	.0773	78.95	.4027	-1.112	1.778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.725**	**.5310**	**1.214**	**-.1270**	**1.209**	**.1036**
Stddev	3.762	1.227	.816	.0793	1.167	.3683
%RSD	101.0	231.1	67.22	62.45	96.59	355.4
#1	4.048	1.629	2.051	-.1790	1.491	.5270
#2	-.1875	-.7937	.4203	-.1663	2.209	-.0739
#3	7.316	.7571	1.171	-.0357	-.0742	-.1423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/20/2018 0:37:22 Type: QC
Method: xin01302018(v68) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0312**	**.0685**	**.4191**	**23.87**
Stddev	1.275	.0416	.4167	47.41
%RSD	4086.	60.78	99.42	198.6
#1	-1.215	.1141	.8930	72.60
#2	1.318	.0324	.1102	21.11
#3	-.1962	.0591	.2541	-22.10
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**2822.5**	**25182.**	**2211.1**
Stddev	148.5	226.	33.2
%RSD	5.2605	.89661	1.5008
#1	2736.8	24940.	2186.5
#2	2736.8	25221.	2197.9
#3	2994.0	25386.	2248.8

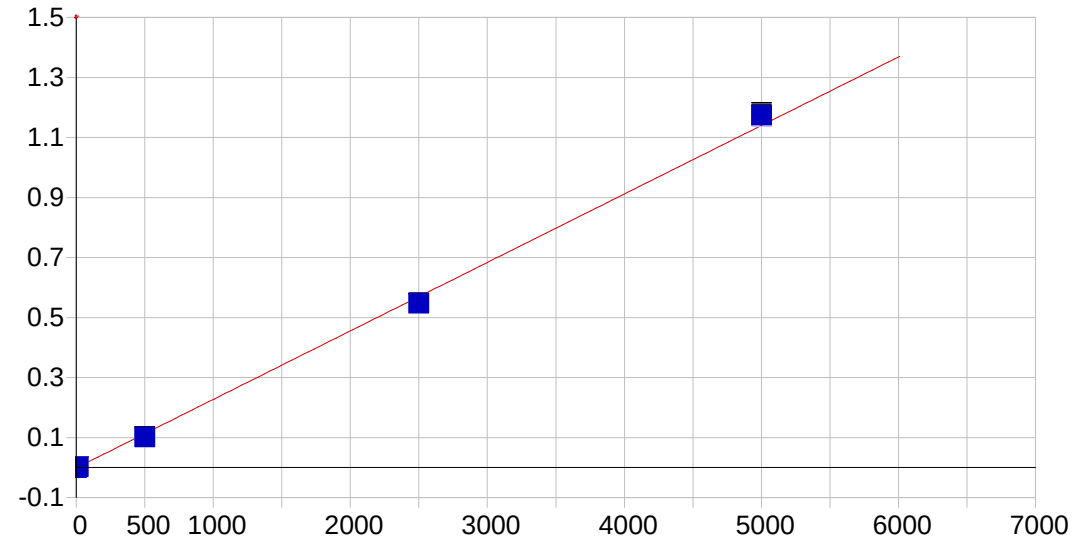


Al 396.152 { 85}

Date of Fit:	3/22/2018 12:41:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000258	Re-Slope:	1.000000
A1 (Gain):	0.000104	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000431		
Predicted MDL:	9.331169		
Predicted MQL:	31.103898		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00656	.007	.000	.00026	.000	1
CAL2	200.00	199.87	-.128	-.064	.02116	.000	1
CAL3	25000.	24246.	-754.	-3.02	2.5290	.037	1
CAL4	125000.	123750.	-1250.	-.999	12.907	.043	1
CAL5	250000.	252000.	2000.	.801	26.282	.196	1

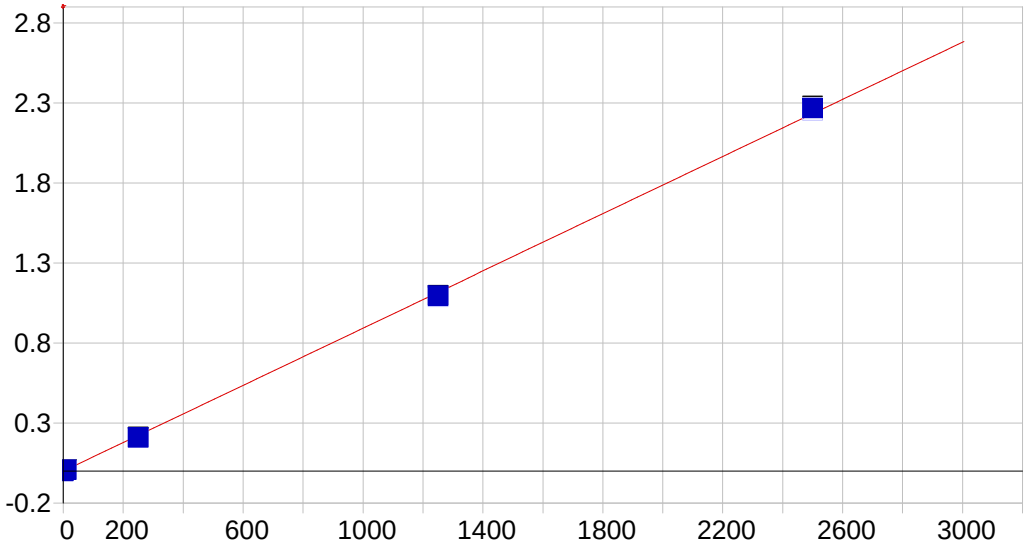


As 189.042 {478}

Date of Fit:	3/22/2018 12:41:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001095	Re-Slope:	1.000000
A1 (Gain):	0.000228	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999177	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	1.489455		
Predicted MQL:	4.964851		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00025	.000	.000	-.00109	.000	1
CAL2	15.000	14.917	-.083	-.556	.00230	.000	1
CAL3	500.00	449.08	-50.9	-10.2	.10092	.001	1
CAL4	2500.0	2404.6	-95.4	-3.81	.54531	.001	1
CAL5	5000.0	5146.0	146.	2.92	1.1686	.010	1
CAL1	5.0000	5.3358	.336	6.72	.00012	.000	1

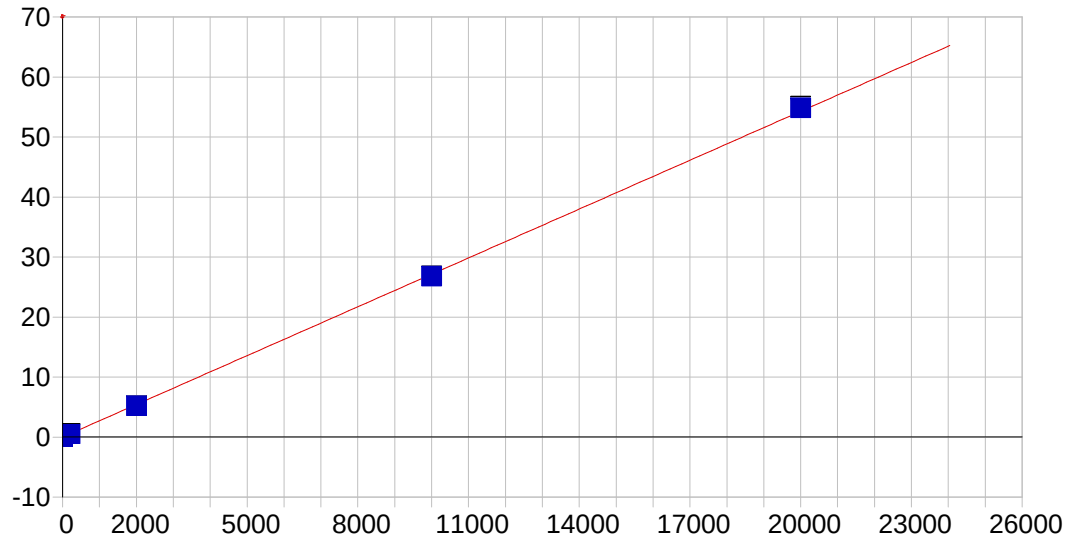


Ag 328.068 {103}

Date of Fit:	3/22/2018 12:41:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000669	Re-Slope:	1.000000
A1 (Gain):	0.000894	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999754	Status:	OK.
Std Error of Est:	0.000161		
Predicted MDL:	0.489047		
Predicted MQL:	1.630158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00111	.001	.000	-.00067	.000	1
CAL2	10.000	9.5225	-.478	-4.78	.00768	.000	1
CAL3	250.00	235.01	-15.0	-6.00	.20783	.003	1
CAL4	1250.0	1226.8	-23.2	-1.85	1.0882	.001	1
CAL5	2500.0	2538.6	38.6	1.55	2.2529	.011	1

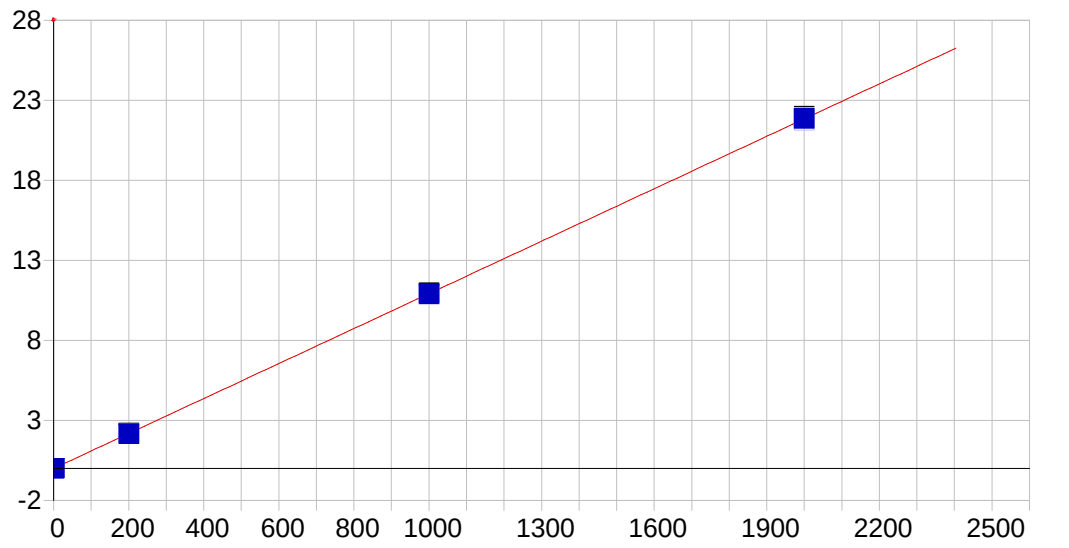


Ba 233.527 {445}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.002714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.004047		
Predicted MDL:	0.152841		
Predicted MQL:	0.509469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.01270	.013	.000	.00009	.000	1
CAL2	200.00	195.29	-4.71	-2.35	.52982	.006	1
CAL3	2000.0	1924.7	-75.3	-3.76	5.2217	.044	1
CAL4	10000.	9873.4	-127.	-1.27	26.786	.026	1
CAL5	20000.	20207.	207.	1.03	54.819	.267	1



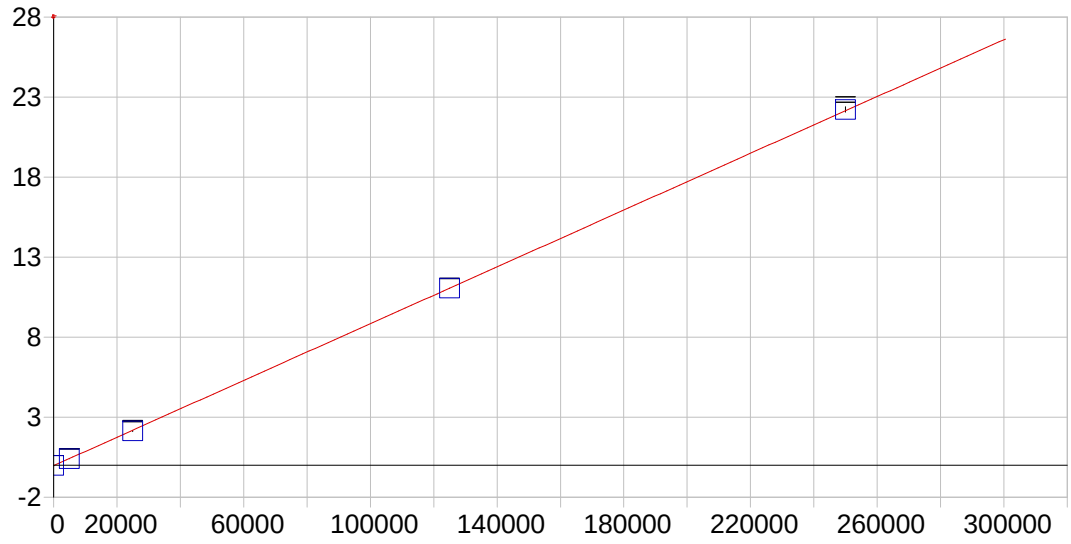
Be 313.042 {108}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000213	Re-Slope:	1.000000

A1 (Gain):	0.010922	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.075500		
Predicted MQL:	0.251668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00004	.000	.000	-.00021	.000	1
CAL2	2.0000	1.9704	-.030	-1.48	.02112	.001	1
CAL3	200.00	198.57	-1.43	-.716	2.1561	.032	1
CAL4	1000.0	999.69	-.307	-.031	10.856	.048	1
CAL5	2000.0	2001.8	1.77	.088	21.739	.135	1

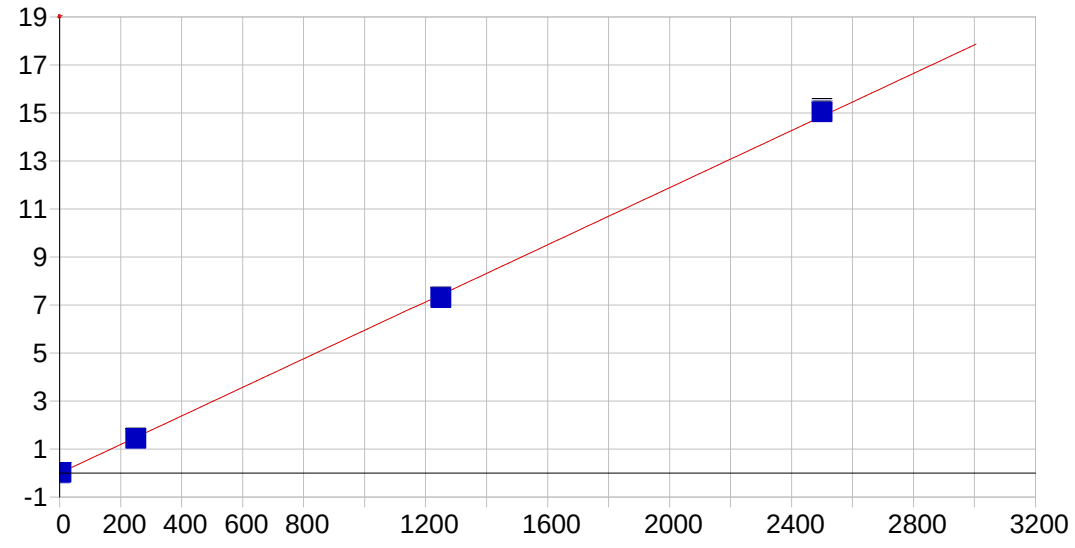


Ca 318.128 {106}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.024540	Re-Slope:	1.000000
A1 (Gain):	0.000089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.001162		
Predicted MDL:	6.445657		
Predicted MQL:	21.485523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.22012	.220	.000	-.02452	.001	1
CAL2	5000.0	4891.4	-109.	-2.17	.40935	.006	1
CAL3	25000.	24381.	-619.	-2.48	2.1382	.033	1
CAL4	125000.	124890.	-114.	-.092	11.053	.011	1
CAL5	250000.	250840.	842.	.337	22.227	.176	1

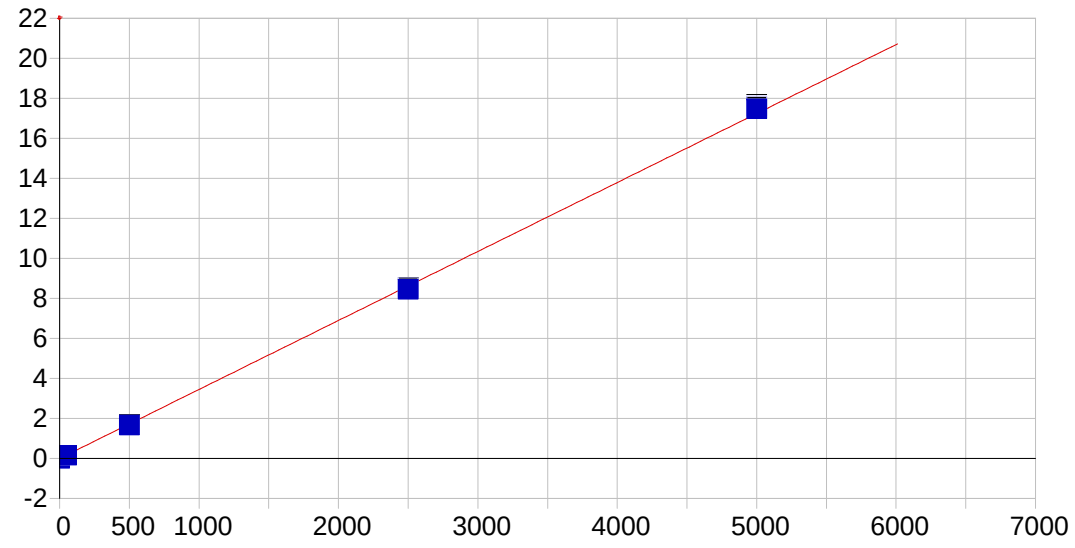


Cd 226.502 {449}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001008	Re-Slope:	1.000000
A1 (Gain):	0.005946	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000481		
Predicted MDL:	0.102572		
Predicted MQL:	0.341906		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00033	.000	.000	-.00101	.000	1
CAL2	4.0000	3.8282	-.172	-4.30	.02181	.001	1
CAL3	250.00	241.33	-8.67	-3.47	1.4417	.012	1
CAL4	1250.0	1229.6	-20.4	-1.63	7.3489	.015	1
CAL5	2500.0	2529.2	29.2	1.17	15.115	.076	1



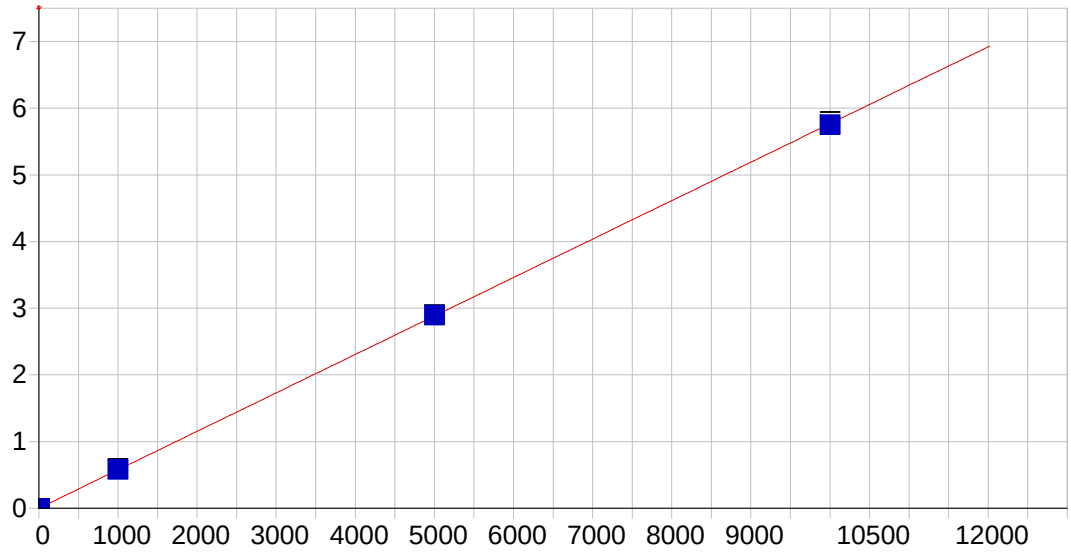
Co 228.616 {447}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000160	Re-Slope:	1.000000

A1 (Gain):	0.003448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.001613		
Predicted MDL:	0.180097		
Predicted MQL:	0.600323		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00371	.004	.000	.00017	.000	1
CAL2	50.000	48.478	-1.52	-3.04	.16740	.002	1
CAL3	500.00	480.81	-19.2	-3.84	1.6717	.018	1
CAL4	2500.0	2452.3	-47.7	-1.91	8.5242	.012	1
CAL5	5000.0	5068.4	68.4	1.37	17.613	.081	1

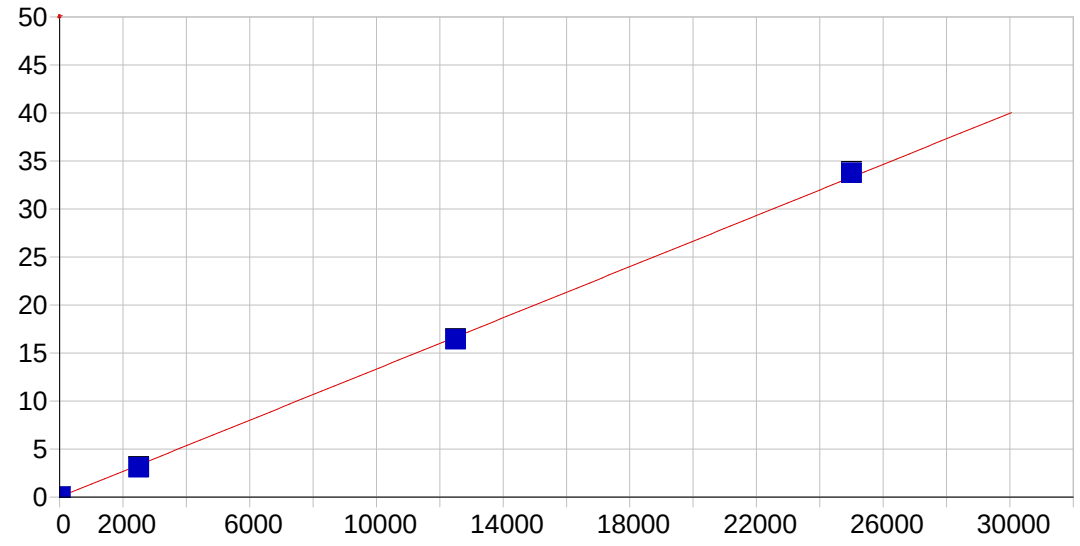


Cr 267.716 {126}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.000577	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.474148		
Predicted MQL:	1.580492		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00020	-.000	.000	.00013	.000	1
CAL2	10.000	10.113	.113	1.13	.00600	.000	1
CAL3	1000.0	1008.0	8.01	.801	.58170	.009	1
CAL4	5000.0	5017.9	17.9	.358	2.8952	.006	1
CAL5	10000.	9974.0	-26.0	-.260	5.7546	.040	1

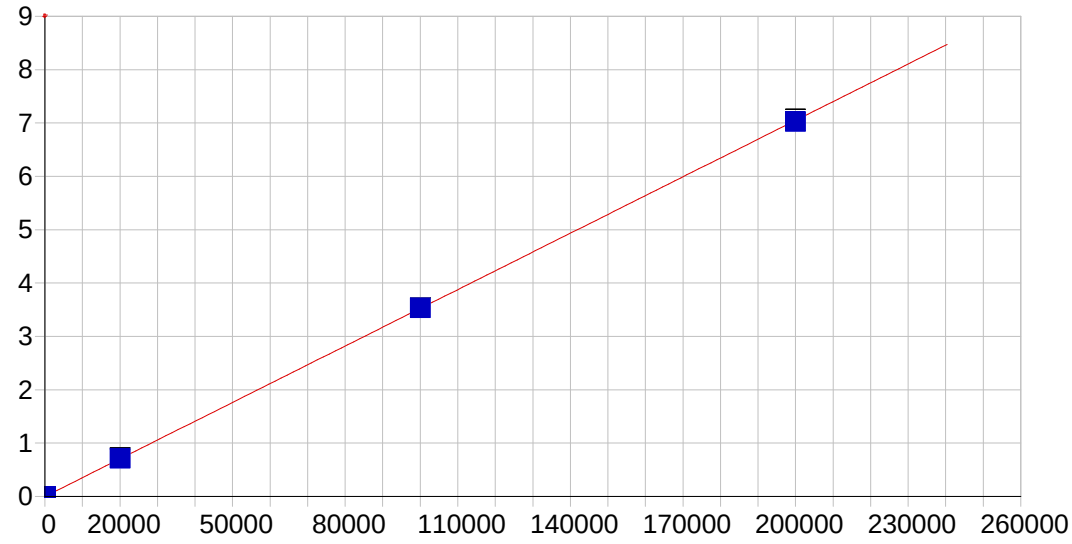


Cu 324.754 {104}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014575	Re-Slope:	1.000000
A1 (Gain):	0.001332	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999763	Status:	OK.
Std Error of Est:	0.001183		
Predicted MDL:	0.335620		
Predicted MQL:	1.118732		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00358	.004	.000	.01458	.000	1
CAL2	25.000	23.142	-1.86	-7.43	.04536	.000	1
CAL3	2500.0	2326.3	-174.	-6.95	3.1121	.046	1
CAL4	12500.	12336.	-164.	-1.31	16.441	.016	1
CAL5	25000.	25339.	339.	1.36	33.756	.142	1



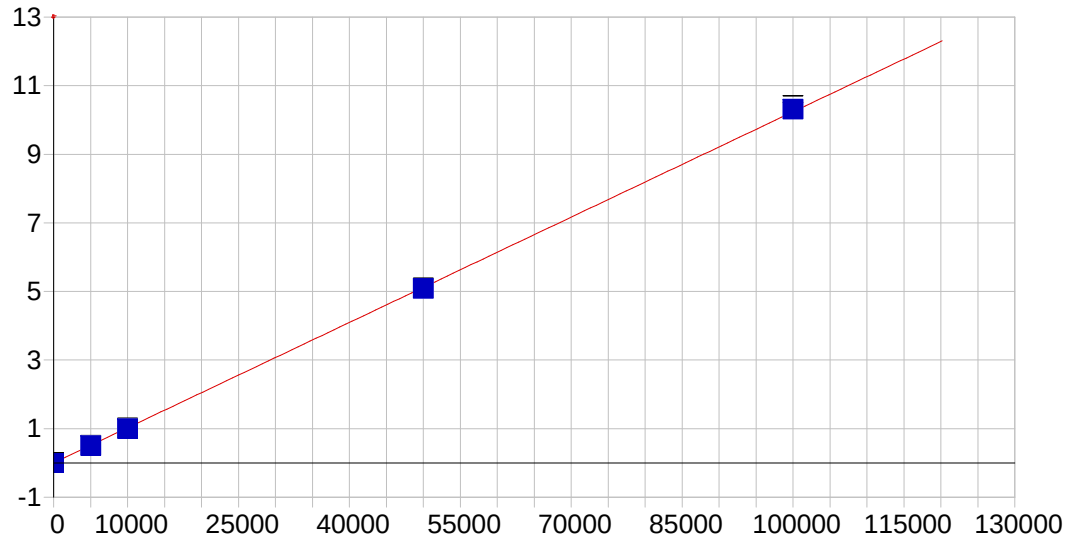
Fe 271.441 {124}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000340	Re-Slope:	1.000000

A1 (Gain):	0.000035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	8.613349		
Predicted MQL:	28.711163		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00152	.002	.000	.00034	.000	1
CAL2	150.00	146.41	-3.59	-2.39	.00543	.000	1
CAL3	20000.	20273.	273.	1.37	.71449	.012	1
CAL4	100000.	100310.	306.	.306	3.5337	.003	1
CAL5	200000.	199420.	-575.	-.288	7.0253	.043	1

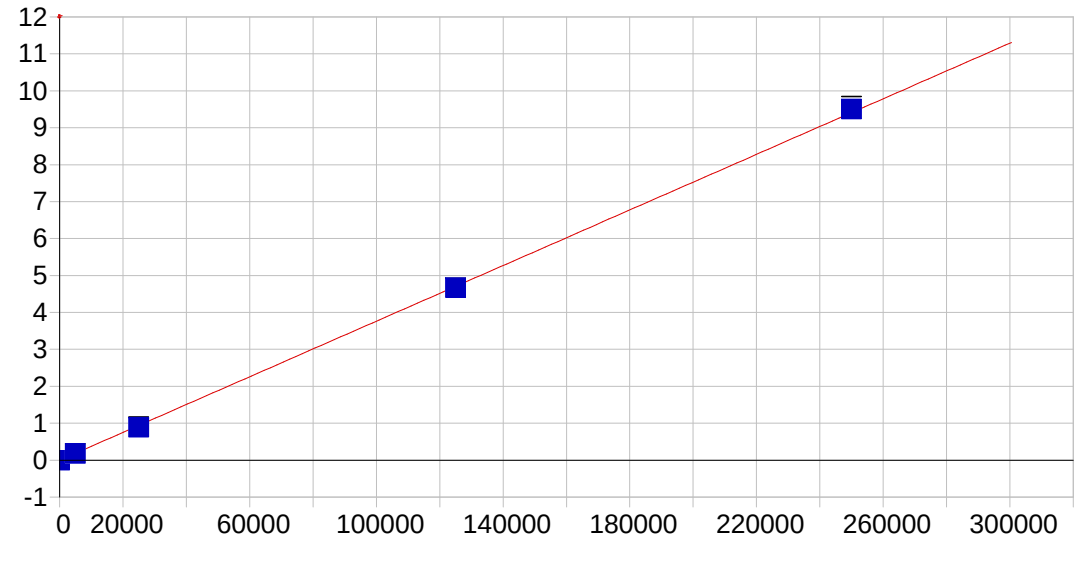


K 766.490 { 44}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000957	Re-Slope:	1.000000
A1 (Gain):	0.000102	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.001309		
Predicted MDL:	31.251909		
Predicted MQL:	104.173031		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.26991	.270	.000	.00098	.004	1
CAL2	5000.0	4865.4	-135.	-2.69	.49903	.009	1
CAL3	10000.	9723.7	-276.	-2.76	.99674	.015	1
CAL4	50000.	49645.	-355.	-.709	5.0850	.013	1
CAL5	100000.	100770.	765.	.765	10.320	.101	1

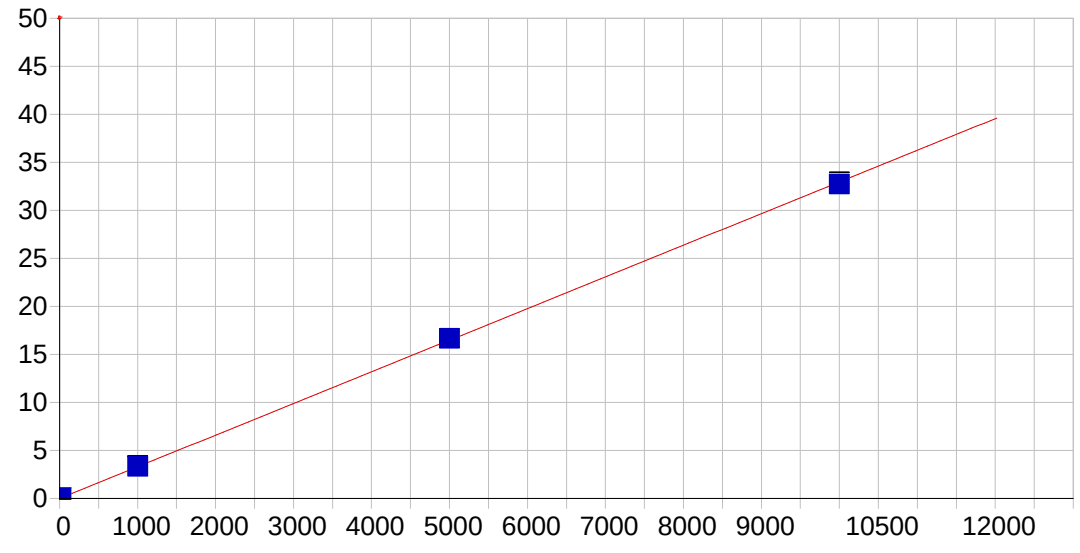


Mg 279.079 {121}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000147	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999840	Status:	OK.
Std Error of Est:	0.001237		
Predicted MDL:	6.317704		
Predicted MQL:	21.059014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.52980	.530	.000	-.00013	.000	1
CAL2	5000.0	4742.0	-258.	-5.16	.17832	.003	1
CAL3	25000.	23562.	-1440.	-5.75	.88601	.013	1
CAL4	125000.	124090.	-908.	-.726	4.6671	.004	1
CAL5	250000.	252600.	2600.	1.04	9.5006	.072	1



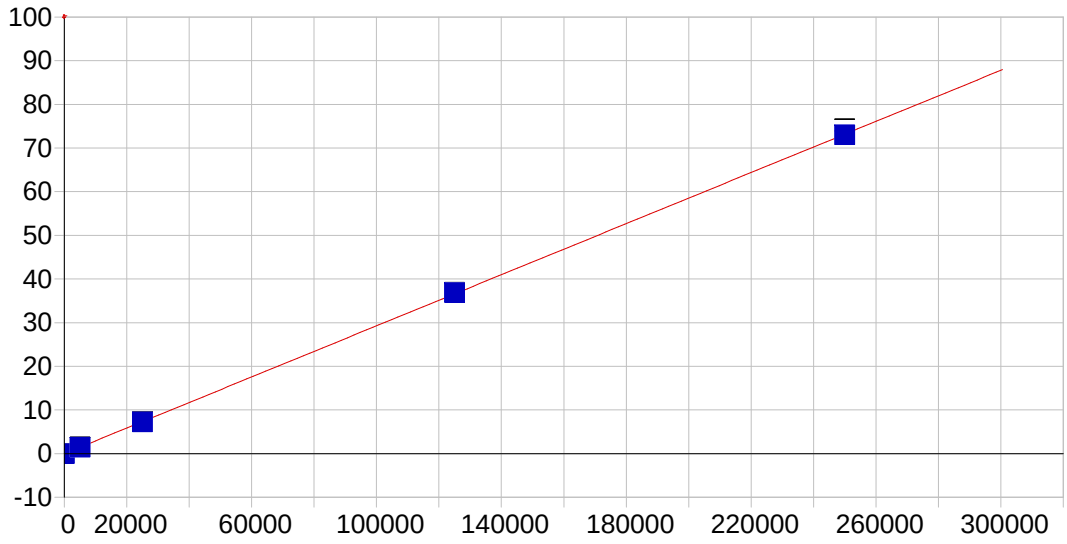
Mn 257.610 {131}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000442	Re-Slope:	1.000000

A1 (Gain):	0.003296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000617		
Predicted MDL:	0.072177		
Predicted MQL:	0.240590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00068	-.001	.000	.00044	.000	1
CAL2	15.000	15.400	.400	2.67	.05120	.001	1
CAL3	1000.0	1014.6	14.6	1.46	3.3441	.052	1
CAL4	5000.0	5057.2	57.2	1.14	16.666	.014	1
CAL5	10000.	9927.7	-72.3	-.723	32.717	.200	1

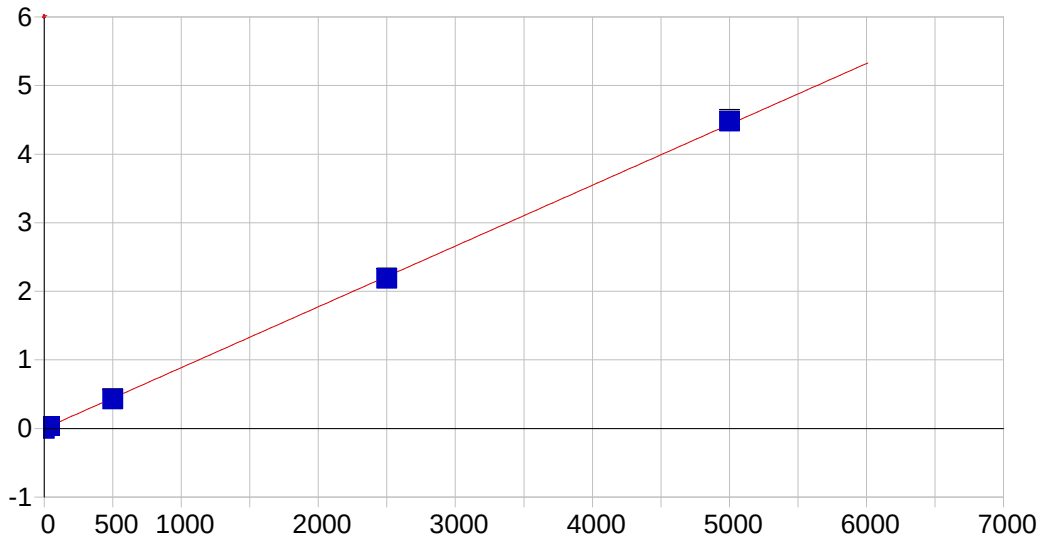


Na 589.592 { 57}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.011049	Re-Slope:	1.000000
A1 (Gain):	0.000293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.003319		
Predicted MDL:	9.585899		
Predicted MQL:	31.952996		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.07772	.078	.000	-.01103	.001	1
CAL2	5000.0	4966.2	-33.8	-.675	1.4427	.019	1
CAL3	25000.	24638.	-362.	-1.45	7.2035	.092	1
CAL4	125000.	126020.	1020.	.820	36.891	.038	1
CAL5	250000.	249370.	-629.	-.252	73.009	1.33	1

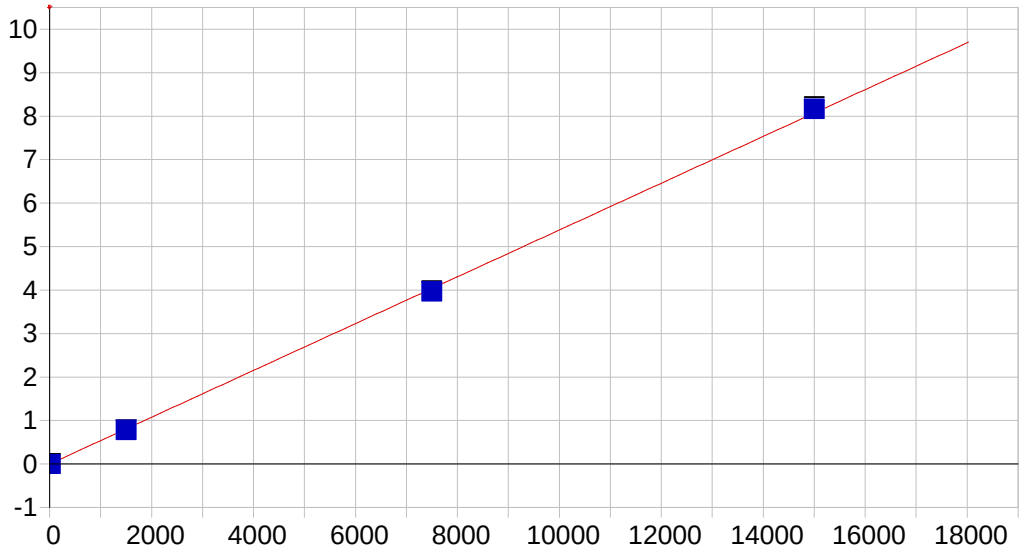


Ni 231.604 {446}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000887	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000287		
Predicted MDL:	0.477426		
Predicted MQL:	1.591419		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00216	.002	.000	.00007	.000	1
CAL2	40.000	39.249	-.751	-1.88	.03488	.001	1
CAL3	500.00	484.37	-15.6	-3.13	.42996	.005	1
CAL4	2500.0	2463.9	-36.1	-1.45	2.1868	.003	1
CAL5	5000.0	5052.5	52.5	1.05	4.4841	.022	1



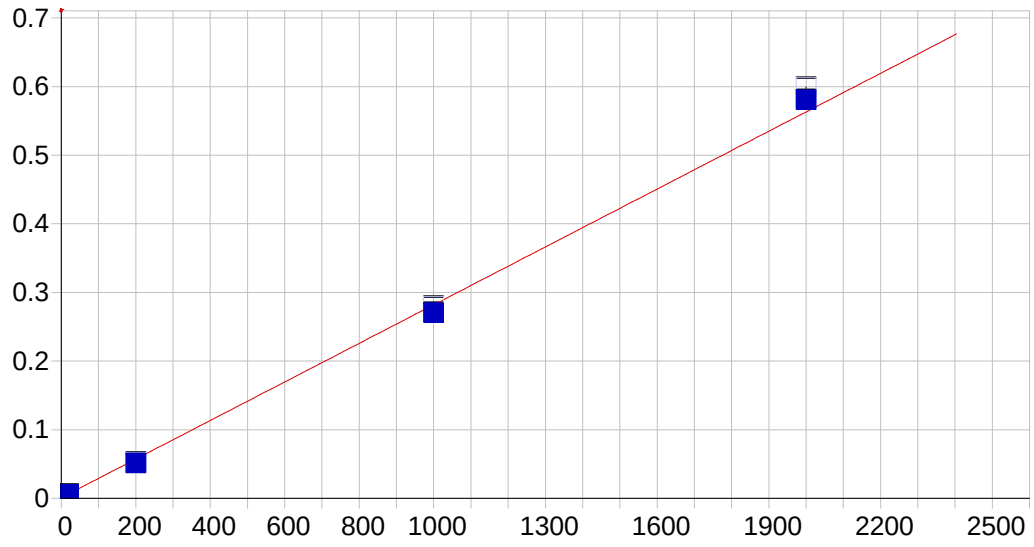
Pb 220.353 {453}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000912	Re-Slope:	1.000000

A1 (Gain):	0.000538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000113		
Predicted MDL:	1.145471		
Predicted MQL:	3.818238		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00026	-.000	.000	-.00091	.000	1
CAL2	10.000	10.526	.526	5.26	.00474	.000	1
CAL3	1500.0	1450.8	-49.2	-3.28	.78002	.007	1
CAL4	7500.0	7372.0	-128.	-1.71	3.9672	.012	1
CAL5	15000.	15177.	177.	1.18	8.1683	.043	1
CAL1	5.0000	5.1842	.184	3.68	.00188	.000	1

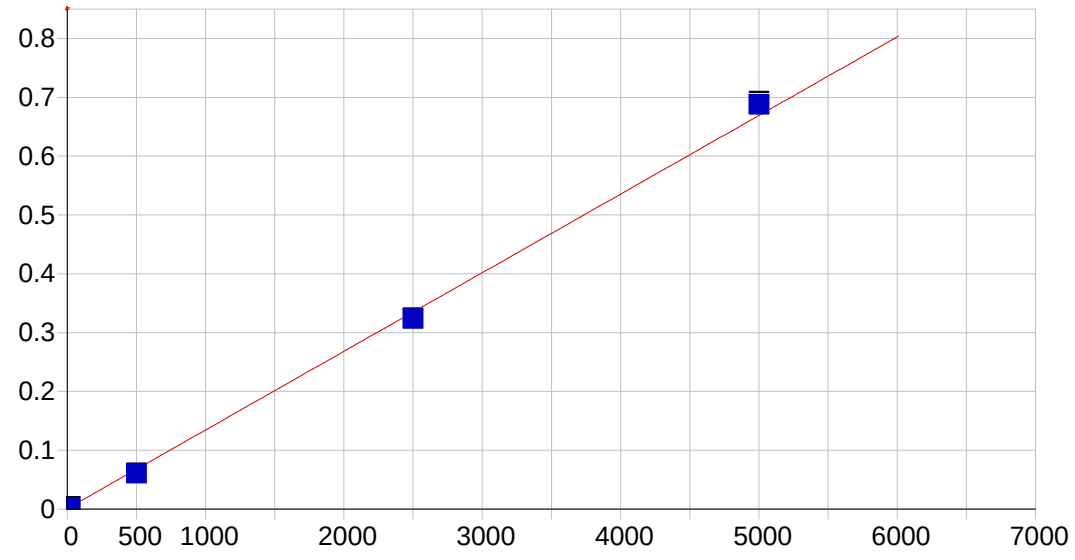


Sb 206.833 {463}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000947	Re-Slope:	1.000000
A1 (Gain):	0.000281	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999115	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	1.469058		
Predicted MQL:	4.896860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00146	.001	.000	.00095	.000	1
CAL2	20.000	18.880	-1.12	-5.60	.00612	.000	1
CAL3	200.00	178.42	-21.6	-10.8	.05285	.001	1
CAL4	1000.0	959.05	-41.0	-4.10	.27927	.001	1
CAL5	2000.0	2063.3	63.3	3.17	.59840	.001	1
CAL1	10.000	10.275	.275	2.75	.00383	.000	1

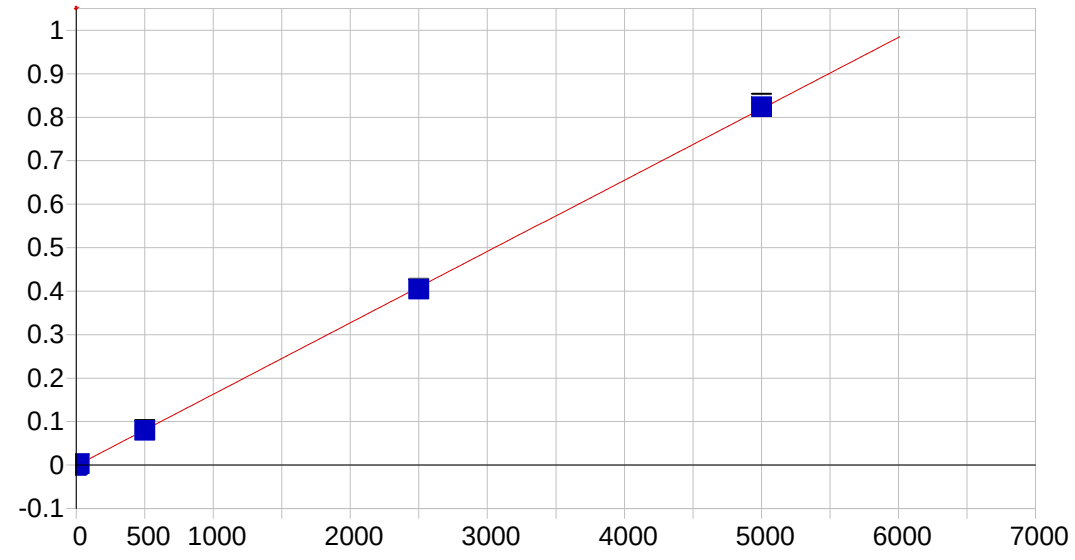


Se 196.090 {472}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000948	Re-Slope:	1.000000
A1 (Gain):	0.000134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999220	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	2.496819		
Predicted MQL:	8.322730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00028	.000	.000	.00095	.000	1
CAL2	20.000	18.792	-1.21	-6.04	.00347	.000	1
CAL3	500.00	447.07	-52.9	-10.6	.06081	.000	1
CAL4	2500.0	2414.1	-85.9	-3.43	.32415	.001	1
CAL5	5000.0	5139.4	139.	2.79	.68894	.004	1
CAL1	5.0000	5.5885	.588	11.8	.00169	.001	1

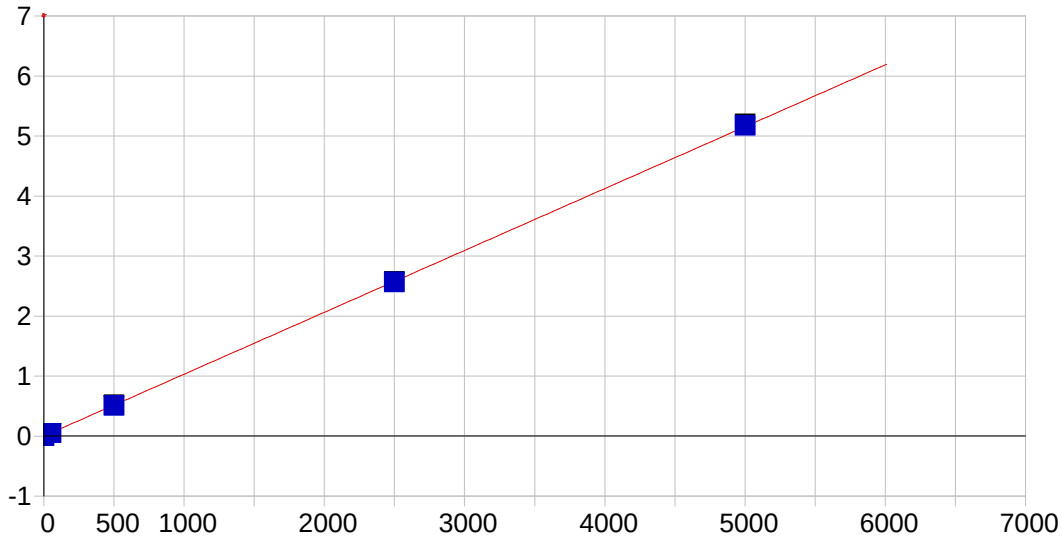


Tl 190.856 {477}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001135	Re-Slope:	1.000000
A1 (Gain):	0.000164	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	2.056264		
Predicted MQL:	6.854213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00357	-.004	.000	-.00114	.000	1
CAL2	20.000	23.780	3.78	18.9	.00277	.000	1
CAL3	500.00	493.00	-7.00	-1.40	.07990	.001	1
CAL4	2500.0	2472.8	-27.2	-1.09	.40533	.001	1
CAL5	5000.0	5028.6	28.6	.571	.82541	.007	1
CAL1	10.000	11.876	1.88	18.8	.00081	.000	1

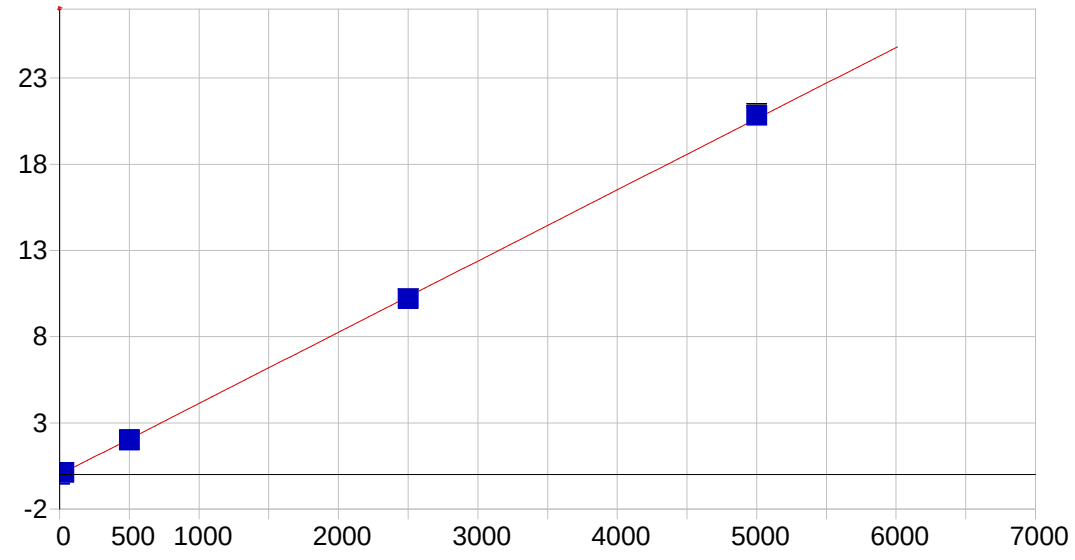


V 292.402 {115}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000314	Re-Slope:	1.000000
A1 (Gain):	0.001031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000150		
Predicted MDL:	0.367179		
Predicted MQL:	1.223931		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00144	.001	.000	.00032	.000	1
CAL2	50.000	49.408	-.592	-1.18	.05124	.001	1
CAL3	500.00	491.61	-8.39	-1.68	.50553	.008	1
CAL4	2500.0	2490.4	-9.55	-.382	2.5598	.002	1
CAL5	5000.0	5018.5	18.5	.371	5.1581	.026	1

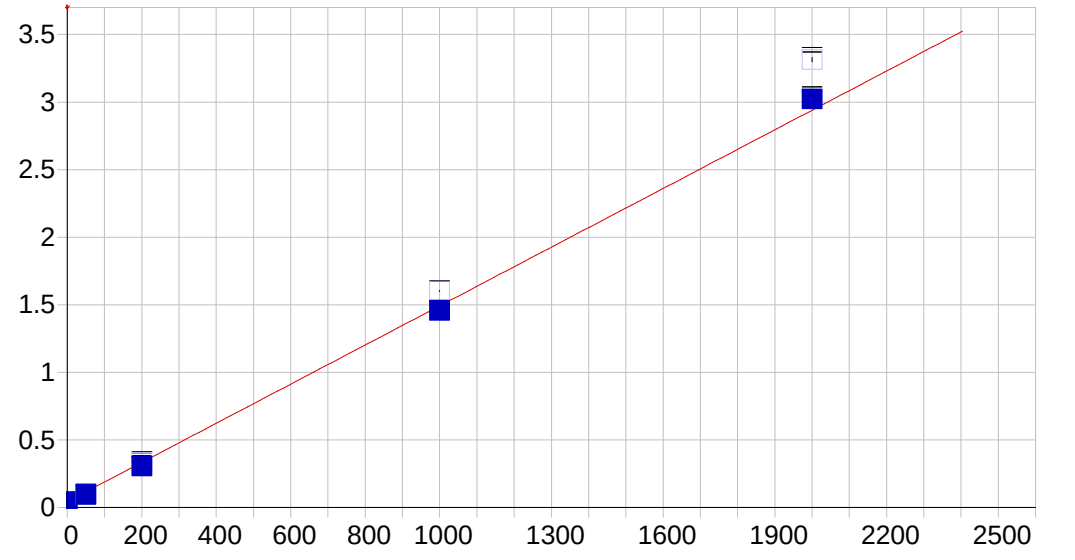


Zn 206.200 {463}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000168	Re-Slope:	1.000000
A1 (Gain):	0.004129	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.001014		
Predicted MDL:	0.132421		
Predicted MQL:	0.441404		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00137	.001	.000	.00017	.000	1
CAL2	30.000	29.633	-.367	-1.22	.12246	.001	1
CAL3	500.00	484.61	-15.4	-3.08	1.9985	.018	1
CAL4	2500.0	2471.2	-28.8	-1.15	10.191	.018	1
CAL5	5000.0	5044.6	44.6	.891	20.803	.129	1



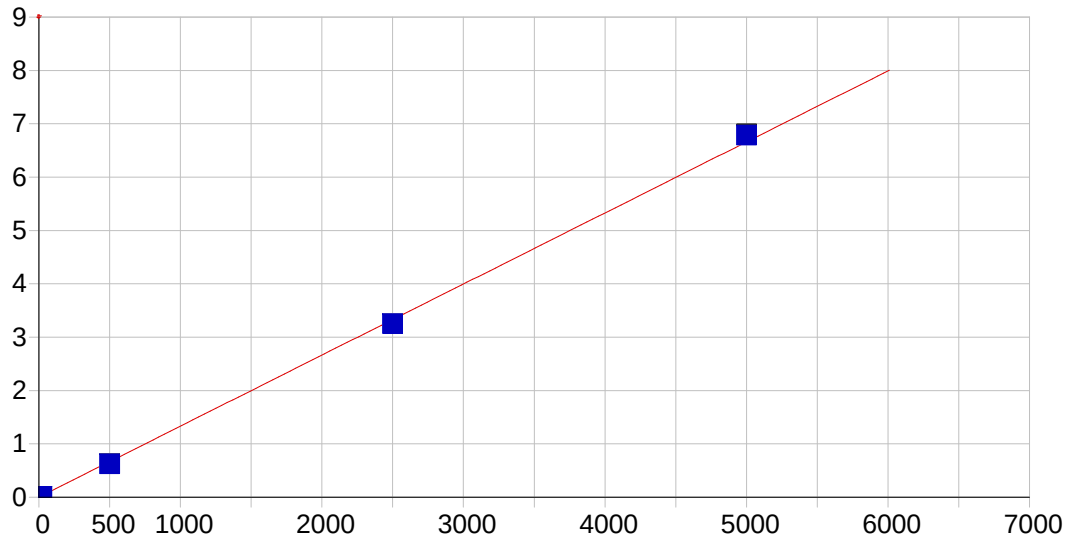
B 208.959 {461}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.043744	Re-Slope:	1.000000

A1 (Gain):	0.001448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998953	Status:	OK.
Std Error of Est:	0.001199		
Predicted MDL:	0.400918		
Predicted MQL:	1.336392		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.01904	.019	.000	.04377	.001	1
CAL2	50.000	35.586	-14.4	-28.8	.09681	.001	1
CAL3	200.00	180.65	-19.3	-9.67	.33446	.004	1
CAL4	1000.0	975.80	-24.2	-2.42	1.6024	.004	1
CAL5	2000.0	2056.9	56.9	2.85	3.3135	.017	1

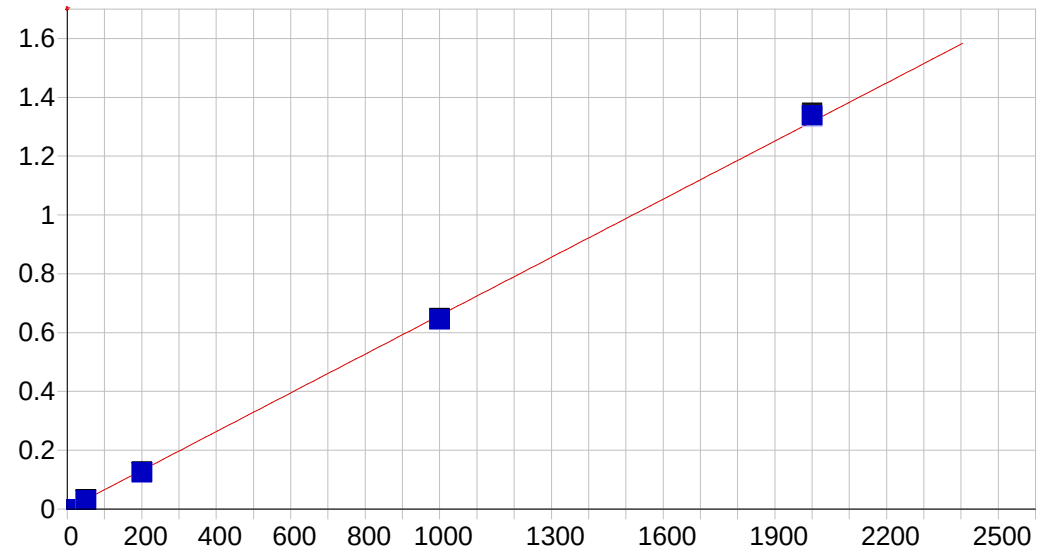


Mo 202.030 {467}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000522	Re-Slope:	1.000000
A1 (Gain):	0.001332	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999665	Status:	OK.
Std Error of Est:	0.000564		
Predicted MDL:	0.263726		
Predicted MQL:	0.879087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00267	.003	.000	.00053	.000	1
CAL2	20.000	18.739	-1.26	-6.30	.02549	.000	1
CAL3	500.00	467.34	-32.7	-6.53	.62303	.006	1
CAL4	2500.0	2440.4	-59.6	-2.38	3.2512	.004	1
CAL5	5000.0	5093.5	93.5	1.87	6.7851	.020	1

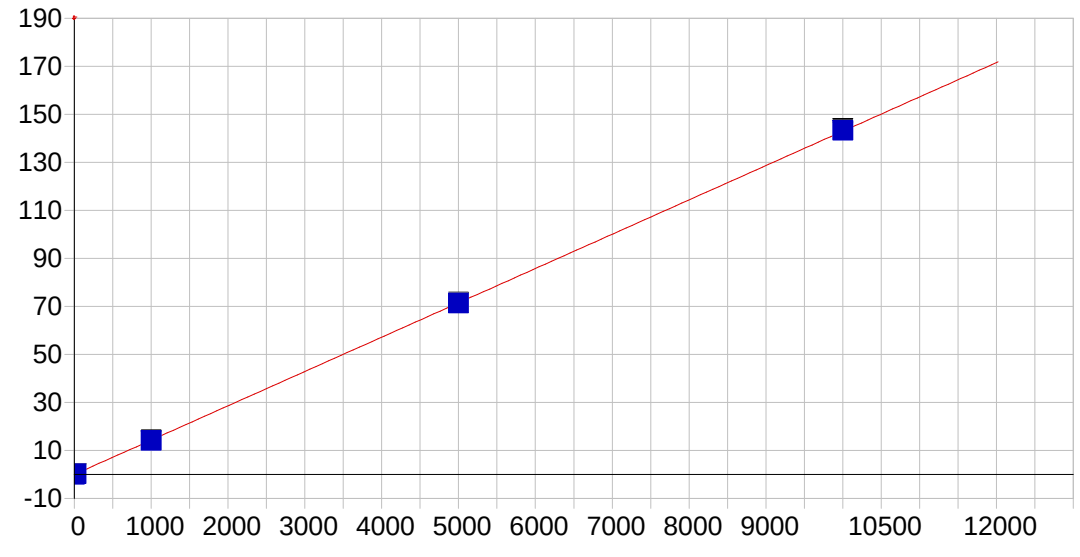


Sn 189.989 {477}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000246		
Predicted MDL:	0.517003		
Predicted MQL:	1.723344		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00580	.006	.000	.00001	.000	1
CAL2	50.000	46.967	-3.03	-6.07	.03094	.000	1
CAL3	200.00	189.53	-10.5	-5.23	.12426	.001	1
CAL4	1000.0	980.33	-19.7	-1.97	.64278	.003	1
CAL5	2000.0	2033.2	33.2	1.66	1.3333	.007	1



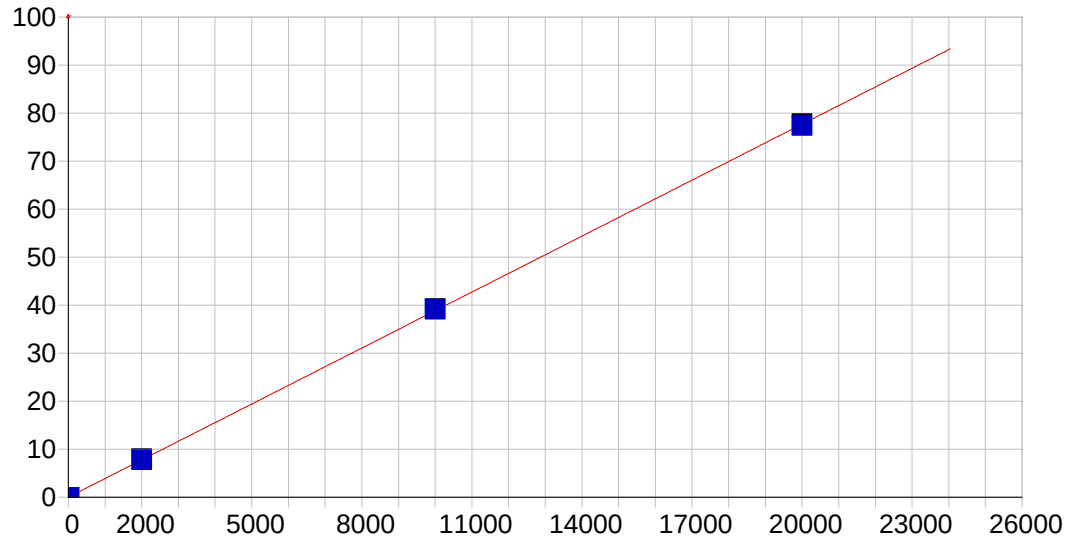
Sr 407.771 { 83}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002216	Re-Slope:	1.000000

A1 (Gain):	0.014296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.001450		
Predicted MDL:	0.087867		
Predicted MQL:	0.292890		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00083	.001	.000	-.00220	.001	1
CAL2	20.000	19.455	-.545	-2.73	.27630	.002	1
CAL3	1000.0	984.81	-15.2	-1.52	14.083	.183	1
CAL4	5000.0	4992.8	-7.24	-.145	71.405	.269	1
CAL5	10000.	10023.	23.0	.230	143.35	.654	1

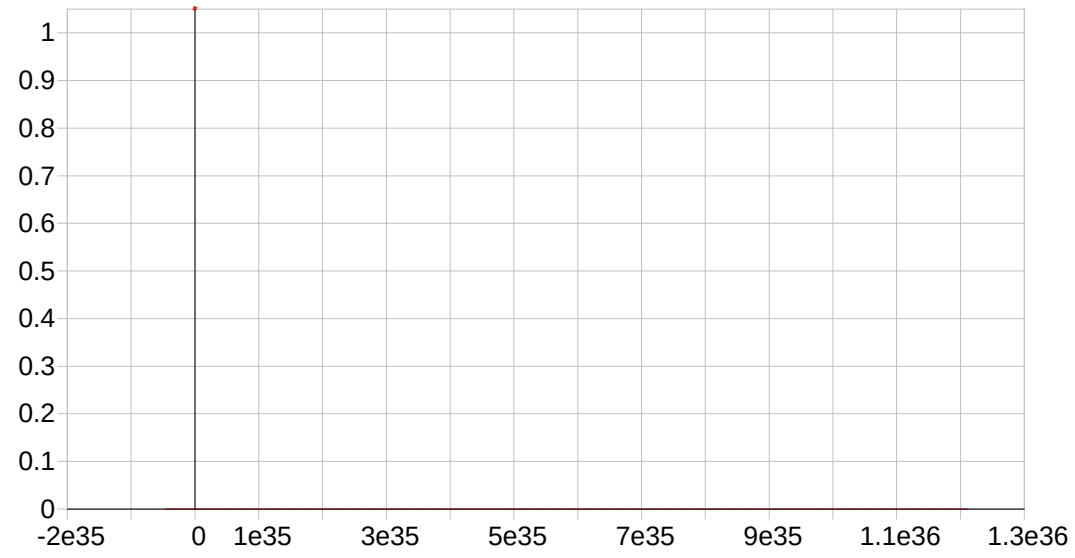


Ti 334.941 {101}

Date of Fit:	3/22/2018 12:41:53	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001715	Re-Slope:	1.000000
A1 (Gain):	0.003884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000635		
Predicted MDL:	0.128013		
Predicted MQL:	0.426710		

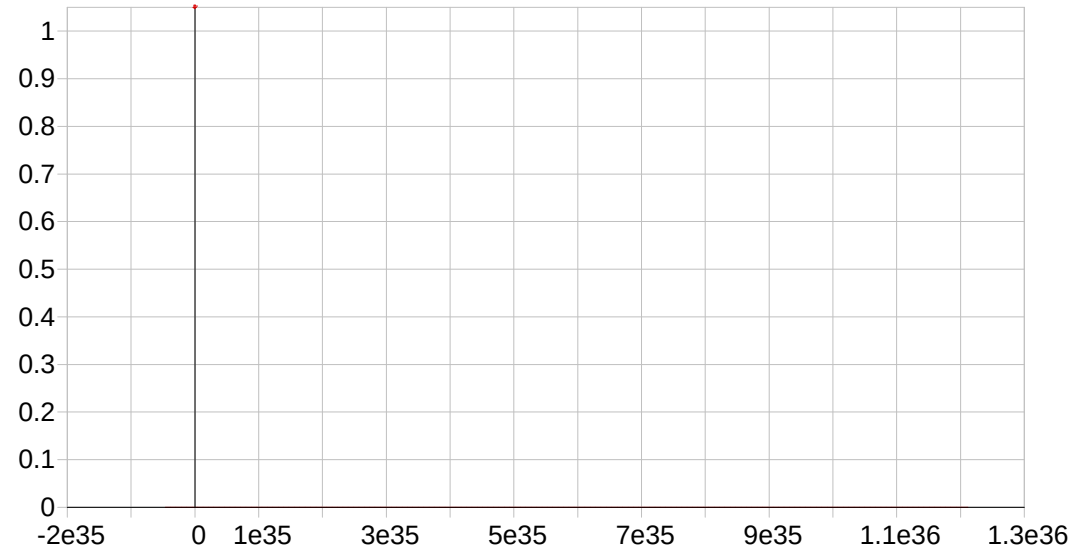
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00042	-.000	.000	.00171	.000	1
CAL2	20.000	20.291	.291	1.46	.08056	.002	1
CAL3	2000.0	2006.7	6.71	.336	7.7984	.117	1
CAL4	10000.	10070.	69.5	.695	39.125	.069	1
CAL5	20000.	19923.	-76.6	-.383	77.411	.304	1



Y 224.306 {450}*

Date of Fit:	3/22/2018 12:14:38	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	183.492520				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

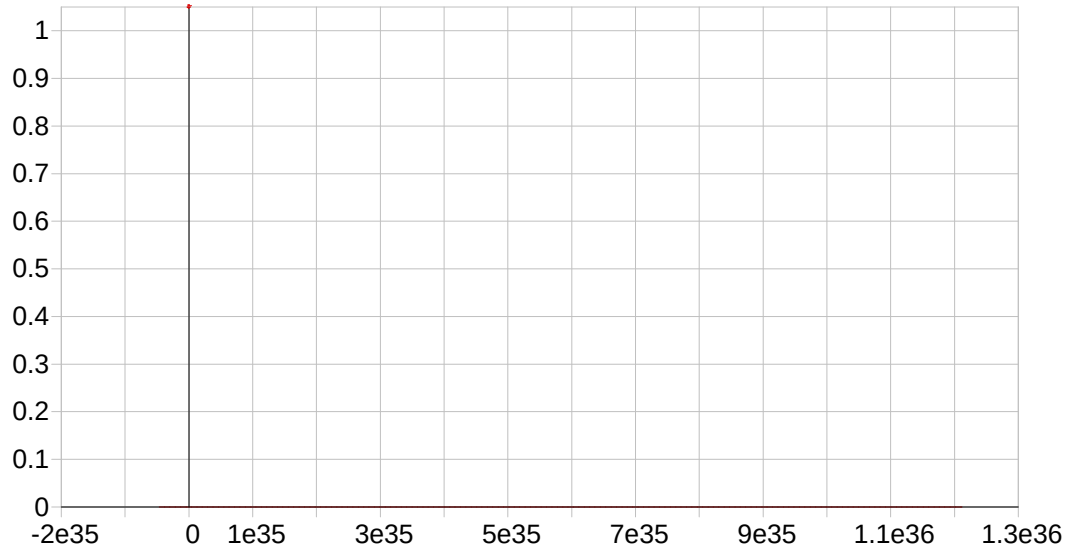


Y 360.073 { 94}*

Date of Fit:	3/22/2018 12:14:38	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				

Predicted MDL: n/a
Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

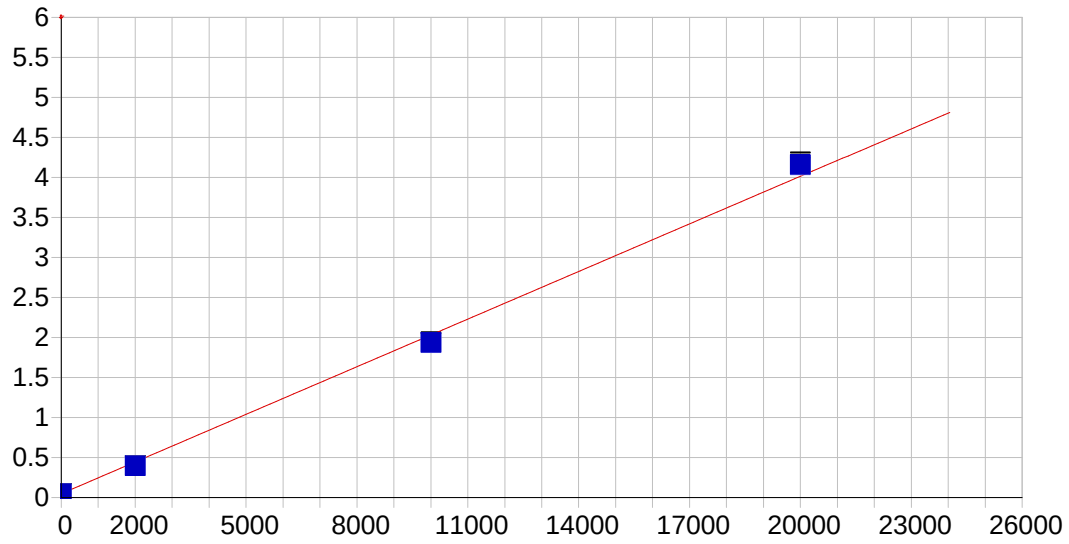


Y 371.030 { 91}*

Date of Fit: 3/22/2018 12:14:38 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
A1 (Gain): 0.000000 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.000000 Status: Warning Zero Gain
Std Error of Est: 192.759705
Predicted MDL: n/a
Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Si 288.158 {117}

Date of Fit: 3/22/2018 12:41:53 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.049672	Re-Slope:	1.000000
A1 (Gain):	0.000198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998722	Status:	OK.
Std Error of Est:	0.003579		
Predicted MDL:	8.847669		
Predicted MQL:	29.492230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.27205	.272	.000	.04973	.002	1
CAL5	20000.	20736.	736.	3.68	4.1529	.032	1
CAL3	2000.0	1751.9	-248.	-12.4	.39624	.004	1
CAL4	10000.	9512.4	-488.	-4.88	1.9318	.008	1

Sample Name: CAL3 Acquired: 3/22/2018 12:30:33 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.529**	**.1009**	**.2078**	**5.222**	**2.156**	**2.138**
Stddev	.037	.0011	.0027	.044	.032	.033
%RSD	1.448	1.054	1.303	.8458	1.463	1.547
#1	2.487	.0997	.2047	5.171	2.120	2.100
#2	2.555	.1017	.2091	5.247	2.175	2.155
#3	2.545	.1014	.2097	5.247	2.174	2.160

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.442**	**1.672**	**.5817**	**3.112**	**.7145**	**.9967**
Stddev	.012	.018	.0088	.046	.0121	.0149
%RSD	.8278	1.091	1.505	1.464	1.698	1.496
#1	1.428	1.651	.5716	3.060	.7005	.9797
#2	1.450	1.684	.5865	3.137	.7207	1.003
#3	1.448	1.680	.5870	3.140	.7223	1.007

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.8860**	**3.344**	**7.204**	**.4300**	**.7800**	**.0528**
Stddev	.0133	.052	.092	.0049	.0069	.0008
%RSD	1.505	1.554	1.284	1.129	.8889	1.515
#1	.8706	3.284	7.097	.4244	.7720	.0519
#2	.8932	3.370	7.258	.4332	.7843	.0532
#3	.8943	3.378	7.255	.4322	.7837	.0534

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0608**	**.0799**	**.5055**	**1.998**	**.3345**	**.6230**
Stddev	.0004	.0009	.0079	.018	.0040	.0064
%RSD	.6308	1.135	1.569	.8999	1.201	1.033
#1	.0604	.0789	.4964	1.978	.3298	.6157
#2	.0609	.0804	.5098	2.007	.3366	.6276
#3	.0611	.0805	.5104	2.010	.3370	.6258

Sample Name: CAL3 Acquired: 3/22/2018 12:30:33 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1243**	**14.08**	**7.798**	**.3962**
Stddev	.0010	.18	.117	.0035
%RSD	.8398	1.302	1.501	.8957
#1	.1231	13.87	7.664	.3921
#2	.1251	14.19	7.857	.3983
#3	.1246	14.18	7.874	.3983

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1490.0**	**9509.3**	**3055.5**
Stddev	9.6	124.8	42.8
%RSD	.64651	1.3119	1.4014
#1	1500.9	9653.0	3103.9
#2	1486.8	9446.0	3039.7
#3	1482.5	9428.8	3022.8

Sample Name: ICIS Cal Blk Acquired: 3/22/2018 12:18:35 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0003**	**-.0011**	**-.0007**	**.0001**	**-.0002**	**-.0245**
Stddev	.0003	.0002	.0001	.0004	.0004	.0005
%RSD	106.6	22.05	19.73	386.5	197.4	2.162
#1	-.0000	-.0009	-.0007	.0002	-.0006	-.0240
#2	.0005	-.0010	-.0007	.0004	.0002	-.0245
#3	.0003	-.0014	-.0005	-.0003	-.0002	-.0251

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0010**	**.0002**	**.0001**	**.0146**	**.0003**	**.0010**
Stddev	.0002	.0002	.0001	.0004	.0001	.0038
%RSD	17.26	143.5	84.04	2.537	30.06	385.5
#1	-.0011	.0002	.0002	.0149	.0002	-.0020
#2	-.0011	-.0001	.0002	.0147	.0003	.0053
#3	-.0008	.0004	.0000	.0142	.0004	-.0003

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0004**	**-.0110**	**.0001**	**-.0009**	**.0009**
Stddev	.0001	.0002	.0009	.0004	.0002	.0004
%RSD	51.79	38.85	7.858	611.2	17.20	42.31
#1	-.0001	.0006	-.0101	-.0004	-.0009	.0008
#2	-.0001	.0003	-.0119	.0004	-.0011	.0006
#3	-.0002	.0004	-.0111	.0002	-.0008	.0014

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0009**	**-.0011**	**.0003**	**.0002**	**.0438**	**.0005**
Stddev	.0002	.0001	.0004	.0004	.0008	.0002
%RSD	20.06	8.375	115.8	206.0	1.735	39.32
#1	.0007	-.0010	.0007	-.0002	.0429	.0008
#2	.0010	-.0012	.0003	.0003	.0444	.0004
#3	.0011	-.0012	-.0000	.0005	.0439	.0004

Sample Name: ICIS Cal Blk Acquired: 3/22/2018 12:18:35 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**-.0022**	**.0017**	**.0497**
Stddev	.0000	.0011	.0003	.0022
%RSD	68.65	51.58	19.15	4.397
#1	.0000	-.0010	.0016	.0512
#2	.0000	-.0024	.0021	.0472
#3	.0000	-.0032	.0015	.0508

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1540.8**	**9762.6**	**3109.1**
Stddev	8.0	90.1	31.9
%RSD	.52148	.92306	1.0255
#1	1533.8	9761.6	3103.8
#2	1539.0	9673.0	3080.2
#3	1549.6	9853.3	3143.3

Sample Name: CAL2 Acquired: 3/22/2018 12:26:37 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0212**	**.0023**	**.0077**	**.5298**	**.0211**	**.4094**
Stddev	.0001	.0001	.0004	.0055	.0008	.0065
%RSD	.6161	5.453	4.637	1.041	3.621	1.576
#1	.0210	.0024	.0077	.5235	.0203	.4022
#2	.0213	.0022	.0080	.5328	.0212	.4110
#3	.0211	.0023	.0073	.5332	.0219	.4148

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0218**	**.1674**	**.0060**	**.0454**	**.0054**	**.4990**
Stddev	.0008	.0017	.0001	.0004	.0002	.0089
%RSD	3.480	1.005	1.256	.8249	3.632	1.789
#1	.0210	.1655	.0059	.0450	.0053	.4916
#2	.0220	.1681	.0061	.0458	.0053	.4966
#3	.0224	.1686	.0060	.0453	.0057	.5089

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1783**	**.0512**	**1.443**	**.0349**	**.0047**	**.0061**
Stddev	.0027	.0008	.019	.0006	.0003	.0001
%RSD	1.492	1.556	1.335	1.655	5.401	2.275
#1	.1753	.0503	1.422	.0343	.0049	.0060
#2	.1795	.0518	1.446	.0349	.0048	.0061
#3	.1802	.0515	1.460	.0354	.0045	.0063

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0035**	**.0028**	**.0512**	**.1225**	**.0968**	**.0255**
Stddev	.0004	.0002	.0010	.0011	.0008	.0004
%RSD	12.03	6.718	1.989	.8858	.8487	1.515
#1	.0035	.0029	.0502	.1213	.0962	.0251
#2	.0030	.0029	.0512	.1227	.0965	.0256
#3	.0038	.0026	.0523	.1234	.0977	.0258

Sample Name: CAL2 Acquired: 3/22/2018 12:26:37 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	**.0309**	**.2763**	**.0806**
Stddev	.0002	.0022	.0016
%RSD	.6544	.7981	1.977
#1	.0307	.2738	.0789
#2	.0310	.2769	.0808
#3	.0311	.2781	.0820

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1542.7**	**9826.5**	**3132.4**
Stddev	6.6	90.1	20.6
%RSD	.42616	.91676	.65662
#1	1550.2	9925.3	3153.2
#2	1540.3	9805.3	3131.9
#3	1537.7	9748.8	3112.1

Sample Name: CAL4 Acquired: 3/22/2018 12:34:15 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.91**	**.5453**	**1.088**	**26.79**	**10.86**	**11.05**
Stddev	.04	.0014	.001	.03	.05	.01
%RSD	.3299	.2481	.1295	.0958	.4379	.0964
#1	12.86	.5445	1.087	26.79	10.80	11.04
#2	12.93	.5469	1.089	26.81	10.87	11.06
#3	12.93	.5446	1.089	26.76	10.90	11.05

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.349**	**8.524**	**2.895**	**16.44**	**3.534**	**5.085**
Stddev	.015	.012	.006	.02	.003	.013
%RSD	.2075	.1409	.2143	.0978	.0763	.2566
#1	7.364	8.530	2.889	16.46	3.531	5.070
#2	7.348	8.533	2.901	16.44	3.537	5.093
#3	7.334	8.510	2.896	16.42	3.534	5.092

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.667**	**16.67**	**36.89**	**2.187**	**3.967**	**.2793**
Stddev	.004	.01	.04	.003	.012	.0008
%RSD	.0929	.0829	.1034	.1533	.2956	.2903
#1	4.665	16.66	36.85	2.189	3.964	.2784
#2	4.672	16.68	36.92	2.188	3.980	.2796
#3	4.664	16.66	36.90	2.183	3.958	.2799

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3242**	**.4053**	**2.560**	**10.19**	**1.602**	**3.251**
Stddev	.0007	.0009	.002	.02	.004	.004
%RSD	.2124	.2133	.0683	.1761	.2234	.1180
#1	.3246	.4058	2.558	10.20	1.606	3.248
#2	.3245	.4059	2.561	10.20	1.602	3.256
#3	.3234	.4043	2.560	10.17	1.599	3.250

Sample Name: CAL4 Acquired: 3/22/2018 12:34:15 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6428**	**71.40**	**39.13**	**1.932**
Stddev	.0029	.27	.07	.008
%RSD	.4522	.3767	.1766	.4299
#1	.6456	71.11	39.05	1.923
#2	.6429	71.47	39.19	1.939
#3	.6398	71.64	39.14	1.933

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1359.8**	**9049.7**	**3005.2**
Stddev	2.9	13.5	9.7
%RSD	.20987	.14915	.32125
#1	1358.7	9059.4	3004.4
#2	1357.7	9034.3	2996.0
#3	1363.0	9055.4	3015.2

Sample Name: CAL1 Acquired: 3/22/2018 12:22:36 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0019**	**.0038**	**.0017**	**.0008**
Stddev	.0002	.0002	.0001	.0006	.0002
%RSD	202.4	8.606	3.494	33.12	27.25
#1	.0001	.0019	.0040	.0018	.0011
#2	.0004	.0017	.0038	.0011	.0007
#3	-.0001	.0020	.0037	.0022	.0007

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	**1556.1**
Stddev	4.1
%RSD	.26533
#1	1551.4
#2	1557.9
#3	1559.1

Sample Name: CAL5 Acquired: 3/22/2018 12:37:59 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**26.28**	**1.169**	**2.253**	**54.82**	**21.74**	**22.23**
Stddev	.20	.010	.011	.27	.14	.18
%RSD	.7474	.8203	.4995	.4870	.6231	.7909
#1	26.50	1.175	2.266	55.09	21.89	22.42
#2	26.22	1.158	2.248	54.56	21.68	22.17
#3	26.12	1.173	2.245	54.81	21.64	22.09

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.12**	**17.61**	**5.755**	**33.76**	**7.025**	**10.32**
Stddev	.08	.08	.040	.14	.043	.10
%RSD	.5016	.4625	.7025	.4200	.6110	.9757
#1	15.19	17.69	5.801	33.92	7.074	10.43
#2	15.04	17.53	5.738	33.66	7.009	10.28
#3	15.11	17.62	5.725	33.69	6.993	10.24

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.501**	**32.72**	**73.01**	**4.484**	**8.168**	**.5984**
Stddev	.072	.20	1.33	.022	.043	.0007
%RSD	.7625	.6125	1.825	.4819	.5305	.1234
#1	9.583	32.95	74.54	4.505	8.216	.5986
#2	9.470	32.62	72.08	4.462	8.131	.5976
#3	9.448	32.58	72.41	4.486	8.158	.5990

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6889**	**.8254**	**5.158**	**20.80**	**3.314**	**6.785**
Stddev	.0041	.0068	.026	.13	.017	.020
%RSD	.5932	.8180	.5068	.6182	.5250	.2936
#1	.6910	.8324	5.188	20.95	3.327	6.802
#2	.6842	.8189	5.147	20.71	3.294	6.763
#3	.6916	.8250	5.139	20.75	3.320	6.791

Sample Name: CAL5 Acquired: 3/22/2018 12:37:59 Type: Cal
Method: BC031118(v11) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.333**	**143.3**	**77.41**	**4.153**
Stddev	.007	.7	.30	.032
%RSD	.5451	.4563	.3927	.7788
#1	1.342	144.0	77.76	4.190
#2	1.329	143.3	77.22	4.131
#3	1.329	142.7	77.25	4.138

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1233.6**	**8612.9**	**2919.9**
Stddev	5.5	57.1	8.4
%RSD	.44307	.66299	.28720
#1	1227.6	8549.7	2910.5
#2	1238.4	8628.3	2926.8
#3	1234.7	8660.7	2922.3

Sample Name: INT-10A 5642381 Acquired: 3/22/2018 13:02:00 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.36**	**4.970**	**16.67**	**3.700**	**1.413**	**34.19**
Stddev	8.44	.561	.36	.087	.040	3.31
%RSD	21.44	11.28	2.189	2.342	2.796	9.695
#1	48.31	4.401	16.27	3.600	1.439	37.97
#2	31.55	4.986	16.99	3.752	1.433	32.82
#3	38.23	5.522	16.74	3.748	1.368	31.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1858**	**9796.**	**.1540**	**3.972**	**5.521**	**-14.23**
Stddev	.0073	40.	.2134	.146	9.038	36.56
%RSD	3.909	.4133	138.5	3.677	163.7	257.0
#1	-.1803	9815.	-.0475	4.139	15.86	-44.25
#2	-.1940	9824.	.3776	3.868	-.8930	26.49
#3	-.1831	9750.	.1320	3.909	1.599	-24.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.61**	**.0785**	**43.85**	**-4.135**	**-3.316**	**-.0866**
Stddev	11.41	.0319	2.80	.565	.550	.6133
%RSD	58.20	40.60	6.384	13.67	16.60	708.4
#1	32.75	.0698	42.09	-4.721	-3.156	.0010
#2	12.27	.1139	47.08	-4.092	-2.863	.4782
#3	13.79	.0519	42.39	-3.592	-3.928	-.7390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10A 5642381 Acquired: 3/22/2018 13:02:00 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.897**	**17.16**	**4901.**	**2.515**	**-35.42**	**-1.848**
Stddev	1.813	1.00	5.	.098	.21	.110
%RSD	46.52	5.801	.0963	3.907	.5822	5.932
#1	-1.821	17.15	4895.	2.503	-35.40	-1.969
#2	-4.703	18.15	4904.	2.619	-35.64	-1.819
#3	-5.167	16.16	4903.	2.423	-35.23	-1.756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**9338.**	**9720.**	**.1726**	**8450.**
Stddev	41.	90.	.1442	77.
%RSD	.4418	.9308	83.54	.9130
#1	9359.	9814.	.2375	8365.
#2	9366.	9633.	.2728	8469.
#3	9291.	9714.	.0073	8516.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1539.6**	**9774.8**	**3128.8**
Stddev	4.8	7.5	10.3
%RSD	.31313	.07645	.32787
#1	1537.1	9779.2	3131.5
#2	1536.5	9766.2	3117.4
#3	1545.2	9779.0	3137.4

Sample Name: ICB Acquired: 3/22/2018 12:45:46 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.88**	**1.478**	**-.3426**	**.6544**	**.0778**	**3.758**
Stddev	12.69	.384	.0322	.2138	.0433	4.312
%RSD	98.58	25.99	9.393	32.67	55.65	114.7
#1	27.34	1.826	-.3262	.8825	.0949	5.780
#2	7.712	1.066	-.3220	.4586	.0285	-1.194
#3	3.579	1.541	-.3797	.6221	.1098	6.687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0306**	**.2223**	**.6609**	**.3396**	**4.782**	**21.47**
Stddev	.0994	.0870	.3585	.7181	6.251	13.54
%RSD	325.3	39.16	54.25	211.5	130.7	63.08
#1	.0649	.3213	1.073	1.125	3.393	28.35
#2	-.0815	.1875	.4883	.1776	11.61	30.21
#3	.1083	.1580	.4213	-.2837	-.6586	5.871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.229**	**.3121**	**23.38**	**.2445**	**1.164**	**-.6783**
Stddev	8.567	.2215	3.53	.2892	.812	.6223
%RSD	104.1	70.97	15.10	118.3	69.76	91.75
#1	17.48	.5669	19.59	.3223	2.034	-.0557
#2	6.648	.2039	23.98	.4867	.4266	-.6787
#3	.5626	.1655	26.57	-.0757	1.031	-1.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 3/22/2018 12:45:46 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.592**	**.8379**	**.2457**	**.0807**	**3.026**	**1.552**
Stddev	1.688	.7335	.1693	.0683	.771	.691
%RSD	65.13	87.54	68.92	84.73	25.49	44.56
#1	4.257	.3820	.4275	.0215	3.902	2.311
#2	2.639	.4477	.2173	.1555	2.448	1.386
#3	.8813	1.684	.0924	.0650	2.728	.9582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.4351**	**.4562**	**1.962**	**11.06**
Stddev	.3159	.2485	.746	1.44
%RSD	72.60	54.48	38.02	13.04
#1	.1603	.7324	2.820	12.65
#2	.3648	.3855	1.598	9.837
#3	.7802	.2507	1.468	10.70
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1529.2**	**9730.0**	**3108.0**
Stddev	12.3	74.2	27.2
%RSD	.80670	.76283	.87396
#1	1515.0	9644.3	3077.3
#2	1535.3	9774.1	3117.5
#3	1537.3	9771.5	3129.1

Sample Name: ICV Acquired: 3/22/2018 12:41:57 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127300.**	**2489.**	**1263.**	**10170.**	**1028.**	**128400.**
Stddev	586.	12.	6.	34.	4.	462.
%RSD	.4604	.4654	.4509	.3303	.4327	.3599
#1	126600.	2476.	1257.	10130.	1023.	127900.
#2	127600.	2498.	1263.	10200.	1031.	128500.
#3	127700.	2492.	1268.	10180.	1030.	128800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1266.**	**2528.**	**5158.**	**12740.**	**103200.**	**50860.**
Stddev	5.	9.	15.	48.	352.	288.
%RSD	.3844	.3409	.2866	.3758	.3411	.5671
#1	1261.	2518.	5145.	12690.	102900.	50520.
#2	1270.	2534.	5156.	12740.	103200.	51020.
#3	1268.	2531.	5174.	12780.	103600.	51020.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**127500.**	**5200.**	**128400.**	**2538.**	**7596.**	**996.5**
Stddev	434.	18.	446.	7.	31.	1.8
%RSD	.3406	.3399	.3477	.2914	.4032	.1822
#1	127000.	5182.	127900.	2530.	7564.	997.7
#2	127400.	5200.	128700.	2544.	7625.	997.4
#3	127900.	5217.	128600.	2540.	7600.	994.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 3/22/2018 12:41:57 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2493.**	**2552.**	**2566.**	**2539.**	**1010.**	**2521.**
Stddev	6.	13.	9.	14.	5.	8.
%RSD	.2528	.5190	.3465	.5469	.4624	.3102
#1	2495.	2538.	2556.	2523.	1006.	2512.
#2	2499.	2564.	2570.	2550.	1015.	2526.
#3	2486.	2555.	2573.	2544.	1011.	2524.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1014.**	**5133.**	**10400.**	**9861.**
Stddev	4.	47.	59.	36.
%RSD	.3594	.9171	.5662	.3700
#1	1010.	5123.	10330.	9838.
#2	1017.	5091.	10430.	9903.
#3	1016.	5184.	10430.	9842.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1327.2**	**8849.5**	**2946.9**
Stddev	4.8	26.9	17.8
%RSD	.36316	.30431	.60260
#1	1332.4	8863.8	2962.9
#2	1323.0	8866.2	2950.0
#3	1326.0	8818.4	2927.8

Sample Name: ICSAB 5674412 Acquired: 3/22/2018 12:57:57 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**480000.**	**92.24**	**98.19**	**92.83**	**98.25**	**477600.**
Stddev	1145.	1.29	.49	.30	.29	3518.
%RSD	.2385	1.394	.5036	.3224	.2910	.7366
#1	479500.	92.99	97.98	93.17	97.93	473600.
#2	479200.	90.75	98.76	92.69	98.33	478800.
#3	481300.	92.97	97.85	92.63	98.49	480300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**89.14**	**87.07**	**97.22**	**103.6**	**188100.**	**9923.**
Stddev	.40	.22	.97	.9	336.	24.
%RSD	.4434	.2508	1.000	.8851	.1787	.2460
#1	88.85	87.31	97.35	104.0	188300.	9926.
#2	89.59	87.00	96.19	102.5	187700.	9897.
#3	88.98	86.89	98.12	104.2	188200.	9946.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**481900.**	**100.5**	**10070.**	**87.44**	**92.37**	**88.98**
Stddev	875.	.7	47.	.65	.21	2.31
%RSD	.1817	.6579	.4667	.7470	.2283	2.597
#1	482800.	101.0	10070.	88.19	92.48	88.63
#2	481000.	99.71	10030.	87.13	92.50	91.44
#3	481800.	100.7	10120.	87.00	92.13	86.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB 5674412 Acquired: 3/22/2018 12:57:57 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**86.90**	**92.25**	**96.80**	**86.29**	**84.82**	**92.97**
Stddev	2.75	6.05	1.01	.19	.18	.40
%RSD	3.162	6.558	1.040	.2178	.2109	.4345
#1	84.99	96.70	97.17	86.18	84.74	93.42
#2	85.66	85.36	95.66	86.18	84.70	92.84
#3	90.05	94.69	97.57	86.51	85.03	92.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**90.00**	**96.30**	**98.74**	**-126.6**
Stddev	.75	.53	.62	5.1
%RSD	.8347	.5454	.6248	4.058
#1	89.72	95.84	98.85	-132.3
#2	89.43	96.19	98.08	-122.3
#3	90.86	96.87	99.30	-125.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1357.5**	**8639.9**	**2977.9**
Stddev	6.4	28.0	14.2
%RSD	.47268	.32361	.47794
#1	1350.3	8607.7	2965.6
#2	1359.4	8658.0	2993.5
#3	1362.7	8654.1	2974.7

Sample Name: ICVL Acquired: 3/22/2018 12:49:47 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.8**	**14.04**	**9.095**	**186.8**	**1.929**	**4716.**
Stddev	9.8	2.18	.147	.4	.054	12.
%RSD	4.885	15.53	1.618	.2172	2.798	.2500
#1	188.6	13.68	9.264	186.5	1.991	4707.
#2	204.3	16.37	9.025	186.6	1.897	4711.
#3	206.4	12.06	8.996	187.2	1.899	4729.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.682**	**46.10**	**9.827**	**22.96**	**151.6**	**4654.**
Stddev	.059	.36	.299	.27	1.7	23.
%RSD	1.606	.7831	3.043	1.194	1.113	.4954
#1	3.740	45.83	10.11	22.73	153.2	4677.
#2	3.622	45.96	9.862	22.87	149.8	4656.
#3	3.684	46.51	9.512	23.26	151.8	4631.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4532.**	**15.15**	**4721.**	**37.48**	**9.983**	**18.27**
Stddev	35.	.15	23.	.28	.656	1.28
%RSD	.7735	1.016	.4871	.7402	6.572	7.002
#1	4500.	15.03	4738.	37.37	9.247	16.80
#2	4528.	15.09	4695.	37.28	10.51	18.88
#3	4570.	15.32	4730.	37.80	10.20	19.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 3/22/2018 12:49:47 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.27**	**21.35**	**47.64**	**28.53**	**36.19**	**18.28**
Stddev	2.33	2.07	.38	.04	.24	.11
%RSD	12.08	9.702	.7946	.1527	.6652	.5925
#1	16.92	23.16	47.21	28.55	35.96	18.39
#2	21.57	19.09	47.81	28.48	36.44	18.17
#3	19.31	21.81	47.91	28.56	36.16	18.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**44.57**	**18.69**	**20.15**	F **-44.87**
Stddev	.46	.17	.12	9.93
%RSD	1.037	.9040	.6066	22.13
#1	44.06	18.60	20.19	-55.94
#2	44.96	18.88	20.02	-36.74
#3	44.69	18.58	20.26	-41.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1500.0**	**9516.6**	**3040.3**
Stddev	1.1	17.4	20.8
%RSD	.07627	.18256	.68472
#1	1499.2	9531.9	3044.9
#2	1499.5	9497.7	3017.5
#3	1501.3	9520.3	3058.3

Sample Name: 460-152132-d-5-a@4 Acquired: 3/22/2018 13:14:06 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29850.**	**16.74**	**-.5484**	**254.5**	**2.313**	**11340.**
Stddev	68.	.41	.0950	1.3	.074	10.
%RSD	.2278	2.421	17.32	.5276	3.191	.0895
#1	29850.	17.19	-.4642	254.0	2.373	11350.
#2	29910.	16.41	-.5298	253.5	2.337	11340.
#3	29780.	16.62	-.6513	256.0	2.231	11340.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2306**	**33.36**	**119.5**	**46.67**	**69290.**	**2401.**
Stddev	.0494	.03	.8	.42	50.	15.
%RSD	21.41	.0900	.6798	.8993	.0715	.6252
#1	-.2756	33.37	120.2	46.23	69330.	2403.
#2	-.1778	33.33	118.6	46.71	69300.	2384.
#3	-.2384	33.39	119.5	47.06	69240.	2414.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9869.**	**1364.**	**471.3**	**51.60**	**145.6**	**-2.920**
Stddev	20.	3.	6.9	.34	.7	.607
%RSD	.2018	.1915	1.474	.6515	.5043	20.80
#1	9883.	1366.	478.9	51.22	145.0	-3.213
#2	9879.	1366.	465.3	51.75	145.3	-3.325
#3	9846.	1361.	469.6	51.84	146.4	-2.221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-d-5-a@4 Acquired: 3/22/2018 13:14:06 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.976**	**.2743**	**87.56**	**154.9**	**6.017**	**3.518**
Stddev	1.323	.8037	.35	1.4	.686	.267
%RSD	33.28	293.0	.3965	.8789	11.39	7.577
#1	-5.265	1.190	87.17	154.0	6.667	3.805
#2	-2.621	-.3146	87.67	154.1	5.300	3.471
#3	-4.042	-.0523	87.83	156.4	6.084	3.278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**6.688**	**43.75**	**1290.**	**660.7**
Stddev	.372	.26	.	7.6
%RSD	5.569	.5990	.0057	1.149
#1	6.668	43.90	1290.	657.8
#2	6.326	43.90	1289.	654.9
#3	7.070	43.45	1290.	669.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1746.5**	**11129.**	**3586.2**
Stddev	8.0	100.	26.4
%RSD	.46089	.90002	.73686
#1	1740.4	11023.	3566.4
#2	1755.6	11144.	3576.0
#3	1743.5	11221.	3616.2

Sample Name: 460-152132-d-6-a@4 Acquired: 3/22/2018 13:17:57 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**35510.**	**32.32**	**-.3826**	**118.7**	**2.725**	**12250.**
Stddev	224.	1.16	.6133	.1	.038	173.
%RSD	.6294	3.598	160.3	.0463	1.384	1.412
#1	35300.	31.11	-.7445	118.7	2.738	12070.
#2	35490.	33.43	-.7287	118.7	2.755	12260.
#3	35750.	32.42	.3256	118.6	2.683	12420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2460**	**145.0**	**102.8**	**98.18**	**91380.**	**2526.**
Stddev	.2592	1.2	1.3	2.15	1236.	20.
%RSD	105.4	.7932	1.313	2.192	1.353	.8071
#1	.0489	143.8	101.3	95.78	90170.	2506.
#2	-.3488	145.0	103.1	98.85	91340.	2546.
#3	-.4380	146.1	103.9	99.92	92640.	2527.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12660.**	**2619.**	**947.7**	**61.90**	**33.16**	**-5.731**
Stddev	165.	38.	9.1	.43	.94	1.088
%RSD	1.304	1.462	.9557	.6947	2.835	18.98
#1	12510.	2581.	944.5	62.10	33.23	-5.583
#2	12650.	2618.	940.7	62.19	32.19	-4.725
#3	12840.	2658.	957.9	61.40	34.06	-6.886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-d-6-a@4 Acquired: 3/22/2018 13:17:57 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.420**	**.7031**	**145.8**	**143.8**	**8.824**	**5.109**
Stddev	.975	1.796	2.3	1.0	.317	.146
%RSD	17.98	255.5	1.558	.7116	3.587	2.866
#1	-5.662	2.168	143.5	142.7	9.120	5.114
#2	-4.347	-1.301	145.9	143.8	8.490	4.960
#3	-6.251	1.242	148.1	144.8	8.863	5.253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**6.536**	**60.49**	**1122.**	**803.0**
Stddev	.375	.32	15.	14.4
%RSD	5.743	.5302	1.314	1.799
#1	6.931	60.27	1108.	798.8
#2	6.494	60.34	1121.	791.2
#3	6.184	60.86	1138.	819.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1656.3**	**10464.**	**3389.5**
Stddev	.2	69.	7.3
%RSD	.01244	.65661	.21537
#1	1656.3	10533.	3397.7
#2	1656.4	10461.	3386.9
#3	1656.0	10396.	3383.8

Sample Name: 460-152136-e-2-a@4 Acquired: 3/22/2018 13:21:47 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7830.**	**45.13**	**1.822**	**1658.**	**.5621**	**48880.**
Stddev	90.	.98	.207	10.	.0477	307.
%RSD	1.150	2.161	11.36	.5766	8.483	.6272
#1	7748.	44.06	1.711	1649.	.6011	48580.
#2	7817.	45.36	1.693	1658.	.5090	48870.
#3	7926.	45.97	2.060	1668.	.5762	49190.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.414**	**22.47**	**2309.**	**1606.**	**84160.**	**5786.**
Stddev	.099	.37	16.	12.	575.	69.
%RSD	2.236	1.663	.6870	.7768	.6837	1.188
#1	4.317	22.04	2293.	1597.	83600.	5715.
#2	4.515	22.66	2310.	1602.	84130.	5792.
#3	4.410	22.72	2325.	1621.	84750.	5852.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4744.**	**1741.**	**1839.**	**52.89**	**90.15**	**179.4**
Stddev	38.	11.	24.	1.11	.73	.2
%RSD	.8038	.6474	1.280	2.094	.8053	.1353
#1	4723.	1731.	1812.	51.64	89.46	179.3
#2	4720.	1740.	1848.	53.28	90.09	179.3
#3	4788.	1753.	1856.	53.75	90.91	179.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152136-e-2-a@4 Acquired: 3/22/2018 13:21:47 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.818**	**-2.897**	**9.267**	F **10130.**	**260.5**	**4.330**
Stddev	2.061	.988	.321	70.	2.9	.280
%RSD	113.3	34.10	3.459	.6864	1.096	6.461
#1	-1.483	-3.986	9.349	10060.	257.8	4.051
#2	.0548	-2.058	9.539	10120.	260.3	4.611
#3	-4.025	-2.648	8.914	10200.	263.5	4.327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**40.36**	**7152.**	**1533.**	**1108.**
Stddev	1.14	97.	9.	15.
%RSD	2.812	1.361	.5816	1.341
#1	39.09	7052.	1524.	1092.
#2	40.69	7157.	1534.	1122.
#3	41.29	7246.	1542.	1109.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1494.7**	**9642.9**	**3150.6**
Stddev	3.9	47.8	8.0
%RSD	.26209	.49611	.25301
#1	1490.3	9593.4	3151.3
#2	1496.0	9646.6	3158.3
#3	1497.8	9688.8	3142.4

Sample Name: ICSA 5787420 Acquired: 3/22/2018 12:53:43 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**491800.**	**-.3566**	**-2.284**	**-1.266**	**.0638**	**495000.**
Stddev	1258.	2.372	.195	.099	.0330	1030.
%RSD	.2558	665.1	8.546	7.841	51.71	.2082
#1	492100.	2.300	-2.507	-1.207	.0892	494100.
#2	490400.	-2.262	-2.201	-1.380	.0758	494800.
#3	492900.	-1.107	-2.144	-1.210	.0265	496100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4433**	**-2.994**	**-1.036**	**-.1820**	**194200.**	**-45.60**
Stddev	.0450	.225	.324	.1989	414.	18.16
%RSD	10.15	7.519	31.23	109.3	.2131	39.81
#1	-.4216	-3.244	-.7162	.0319	193700.	-65.25
#2	-.4951	-2.932	-1.363	-.2165	194300.	-29.44
#3	-.4134	-2.807	-1.030	-.3614	194500.	-42.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**502000.**	**1.240**	**-22.39**	**-1.830**	**3.195**	**-1.766**
Stddev	3182.	.113	9.46	.630	1.268	1.215
%RSD	.6338	9.082	42.26	34.41	39.68	68.79
#1	499500.	1.174	-26.56	-2.354	3.618	-1.018
#2	500900.	1.371	-29.05	-2.004	1.770	-1.112
#3	505600.	1.177	-11.56	-1.131	4.198	-3.168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA 5787420 Acquired: 3/22/2018 12:53:43 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.797**	**-.5769**	**-1.658**	**-1.792**	**4.536**	**1.362**
Stddev	7.400	1.521	.190	.198	.099	.052
%RSD	194.9	263.6	11.46	11.03	2.190	3.823
#1	-.1102	-2.333	-1.501	-1.943	4.433	1.380
#2	-12.32	.3106	-1.870	-1.568	4.544	1.303
#3	1.035	.2914	-1.604	-1.864	4.631	1.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.5859**	**-1.237**	**-3.299**	**-42.16**
Stddev	.8245	.066	.178	1.04
%RSD	140.7	5.294	5.384	2.466
#1	-.8753	-1.270	-3.137	-41.13
#2	.3443	-1.161	-3.271	-42.14
#3	-1.227	-1.279	-3.489	-43.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1350.9**	**8554.3**	**2967.0**
Stddev	3.1	19.5	5.9
%RSD	.22842	.22755	.19761
#1	1351.0	8566.6	2961.1
#2	1347.8	8564.4	2972.8
#3	1353.9	8531.9	2967.1

Sample Name: pds 460-152251-e-1-b Acquired: 3/22/2018 13:25:46 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1969.**	**1879.**	**48.80**	**1903.**	**48.71**	**85210.**
Stddev	11.	28.	.62	23.	.54	767.
%RSD	.5785	1.477	1.278	1.215	1.116	.9000
#1	1969.	1901.	48.10	1921.	48.75	85590.
#2	1981.	1888.	49.30	1912.	49.23	85720.
#3	1958.	1848.	48.99	1877.	48.15	84330.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.32**	**478.1**	**201.3**	**240.9**	**990.0**	**25400.**
Stddev	.52	5.7	1.0	1.4	6.9	237.
%RSD	1.095	1.192	.4779	.5665	.6929	.9344
#1	47.56	482.8	201.9	239.5	982.6	25510.
#2	47.68	479.8	201.8	242.3	991.1	25570.
#3	46.72	471.8	200.2	240.9	996.2	25130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31430.**	**1389.**	**85240.**	**468.3**	**465.7**	**425.9**
Stddev	215.	12.	746.	6.8	5.7	5.2
%RSD	.6850	.8500	.8755	1.460	1.220	1.227
#1	31550.	1394.	85550.	473.9	469.7	426.8
#2	31560.	1397.	85770.	470.3	468.1	430.6
#3	31180.	1375.	84380.	460.7	459.2	420.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-152251-e-1-b Acquired: 3/22/2018 13:25:46 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1864.**	**1944.**	**495.5**	**574.8**	**521.2**	**1013.**
Stddev	14.	20.	1.6	8.5	6.9	8.
%RSD	.7370	1.019	.3307	1.476	1.332	.7756
#1	1875.	1959.	495.7	582.7	525.5	1014.
#2	1868.	1953.	497.1	575.9	524.9	1020.
#3	1848.	1922.	493.8	565.9	513.2	1004.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**471.5**	**893.6**	**497.8**	**9084.**
Stddev	6.1	7.5	3.5	115.
%RSD	1.303	.8361	.7023	1.270
#1	474.1	893.2	498.7	9118.
#2	475.9	901.3	500.8	9178.
#3	464.5	886.3	494.0	8955.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1497.2**	**9447.3**	**3048.9**
Stddev	11.2	51.7	11.1
%RSD	.74837	.54731	.36530
#1	1490.7	9481.4	3037.4
#2	1490.6	9387.8	3049.8
#3	1510.1	9472.6	3059.6

Sample Name: INT-10B 5413110 Acquired: 3/22/2018 13:06:05 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28.56**	**-7.404**	**-.6820**	**.1058**	**4.411**	**31.33**
Stddev	9.50	3.040	.2221	.1515	.070	7.38
%RSD	33.26	41.07	32.57	143.2	1.589	23.55
#1	35.43	-5.383	-.4365	-.0670	4.362	39.34
#2	32.53	-10.90	-.8692	.2158	4.491	24.80
#3	17.72	-5.927	-.7404	.1685	4.379	29.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6428**	**-2.155**	**10480.**	**9712.**	**6.018**	**-12.08**
Stddev	.1132	.323	22.	16.	6.504	18.63
%RSD	17.61	14.98	.2140	.1660	108.1	154.2
#1	-.6799	-1.900	10480.	9705.	7.327	1.816
#2	-.5157	-2.519	10510.	9731.	11.77	-33.26
#3	-.7328	-2.047	10470.	9702.	-1.041	-4.810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-57.97**	**10240.**	**32.09**	**10990.**	**-3.501**	**-7.533**
Stddev	1.54	65.	8.62	38.	.667	.202
%RSD	2.664	.6325	26.86	.3435	19.04	2.675
#1	-57.46	10270.	35.59	11020.	-3.917	-7.690
#2	-56.74	10280.	38.40	10990.	-3.853	-7.306
#3	-59.70	10160.	22.27	10950.	-2.732	-7.605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10B 5413110 Acquired: 3/22/2018 13:06:05 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.395**	**7.444**	**-27.65**	**1.934**	**-98.92**	**5077.**
Stddev	3.138	1.214	.30	.094	1.47	14.
%RSD	131.0	16.31	1.080	4.849	1.488	.2748
#1	-.3370	6.485	-28.00	1.837	-100.6	5092.
#2	-6.006	8.809	-27.46	1.941	-97.84	5075.
#3	-.8415	7.036	-27.49	2.024	-98.32	5064.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.363**	**2.633**	**10070.**	**-172.4**
Stddev	.233	3.936	85.	2.3
%RSD	3.159	149.5	.8420	1.313
#1	7.401	7.178	10120.	-171.9
#2	7.113	.3754	10120.	-170.4
#3	7.574	.3465	9972.	-174.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1397.6**	**9661.6**	**3094.9**
Stddev	6.5	37.9	7.0
%RSD	.46203	.39230	.22691
#1	1391.7	9651.2	3092.3
#2	1396.7	9630.0	3089.5
#3	1404.5	9703.6	3102.8

Sample Name: CCVL Acquired: 3/22/2018 13:40:54 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.3**	**13.71**	**8.753**	**178.2**	**1.841**	**4551.**
Stddev	9.5	.50	.501	1.2	.040	16.
%RSD	5.114	3.614	5.723	.6914	2.179	.3434
#1	195.5	13.93	9.244	179.2	1.797	4537.
#2	183.5	14.06	8.772	178.5	1.852	4568.
#3	176.8	13.15	8.243	176.8	1.875	4549.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.451**	**44.33**	**9.557**	**21.79**	**148.2**	**4478.**
Stddev	.055	.15	.245	.05	5.2	27.
%RSD	1.596	.3322	2.568	.2407	3.498	.5970
#1	3.387	44.31	9.532	21.76	142.2	4494.
#2	3.483	44.49	9.814	21.85	151.4	4493.
#3	3.482	44.20	9.325	21.77	150.9	4447.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4409.**	**14.64**	**4512.**	**36.09**	**9.302**	**16.89**
Stddev	23.	.15	22.	.43	.763	.44
%RSD	.5115	1.006	.4953	1.200	8.209	2.577
#1	4386.	14.49	4535.	35.67	8.721	16.69
#2	4432.	14.78	4510.	36.08	10.17	17.39
#3	4409.	14.65	4491.	36.53	9.018	16.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/22/2018 13:40:54 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15.79**	**20.54**	**46.13**	**27.33**	F **33.65**	**17.44**
Stddev	.61	2.30	.50	.14	.42	.16
%RSD	3.855	11.19	1.083	.5239	1.240	.9126
#1	15.91	23.14	45.59	27.21	33.73	17.47
#2	15.13	18.82	46.57	27.49	34.03	17.59
#3	16.33	19.64	46.22	27.30	33.20	17.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**43.59**	**17.85**	**19.12**	F **-38.64**
Stddev	.35	.14	.10	1.76
%RSD	.7933	.7767	.5097	4.558
#1	43.70	17.86	19.01	-39.92
#2	43.87	17.98	19.16	-39.37
#3	43.20	17.70	19.20	-36.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1565.5**	**9826.7**	**3171.1**
Stddev	7.6	20.9	29.6
%RSD	.48252	.21275	.93271
#1	1558.6	9825.3	3139.6
#2	1564.4	9806.5	3175.5
#3	1573.5	9848.2	3198.2

Sample Name: mb 460-505212/1-b Acquired: 3/22/2018 13:44:51 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.592**	**1.662**	**-.1703**	**.2622**	**-.0335**	**8.555**
Stddev	9.086	.602	.0678	.1267	.0741	.365
%RSD	570.9	36.19	39.81	48.32	221.2	4.265
#1	2.743	1.810	-.1037	.3842	-.1124	8.341
#2	-8.015	1.001	-.2392	.1313	.0345	8.976
#3	10.05	2.176	-.1679	.2711	-.0226	8.348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0474**	**.0604**	**.4003**	**-.7114**	**.9819**	**-30.64**
Stddev	.0239	.0193	.2254	.1718	7.790	61.95
%RSD	50.44	31.88	56.31	24.15	793.4	202.2
#1	-.0402	.0464	.3323	-.5223	5.544	-65.77
#2	-.0279	.0525	.2167	-.7543	-8.013	40.89
#3	-.0741	.0824	.6518	-.8578	5.415	-67.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.937**	**.0000**	**16.48**	**.0253**	**1.557**	**.7266**
Stddev	2.139	.0543	10.57	.2732	.231	.5490
%RSD	110.4	149800.	64.12	1078.	14.80	75.55
#1	-4.014	.0603	22.96	-.0906	1.382	.2358
#2	-2.055	-.0451	4.285	-.1708	1.818	.6246
#3	.2580	-.0151	22.20	.3374	1.472	1.319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-505212/1-b Acquired: 3/22/2018 13:44:51 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9178**	**-.4828**	**.0498**	**-.0386**	**-1.066**	**.0237**
Stddev	2.297	.0824	.4499	.0886	.743	.1186
%RSD	250.3	17.07	902.8	229.3	69.62	501.3
#1	1.581	-.4134	-.1045	.0471	-.2256	.1455
#2	-1.397	-.4611	.5565	-.0332	-1.632	.0169
#3	-2.938	-.5739	-.3026	-.1298	-1.342	-.0914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2724**	**.0594**	**.0016**	**-11.78**
Stddev	.5863	.0807	.0807	2.22
%RSD	215.2	135.8	4906.	18.84
#1	-.1886	.1316	-.0113	-11.61
#2	.9322	-.0277	-.0718	-14.09
#3	.0737	.0744	.0881	-9.659
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1655.4**	**10380.**	**3316.1**
Stddev	19.6	126.	109.3
%RSD	1.1856	1.2108	3.2973
#1	1633.8	10241.	3191.6
#2	1660.2	10415.	3360.0
#3	1672.1	10485.	3396.7

Sample Name: 460-152132-d-4-a@4 Acquired: 3/22/2018 13:10:16 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**55790.**	**60.43**	**.5571**	**333.7**	**5.492**	**4720.**
Stddev	511.	.31	.2600	3.9	.157	54.
%RSD	.9153	.5059	46.66	1.180	2.862	1.150
#1	55500.	60.55	.2930	330.4	5.574	4662.
#2	55480.	60.09	.8128	332.5	5.311	4731.
#3	56380.	60.66	.5656	338.1	5.591	4768.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6326**	**98.70**	**147.3**	**161.3**	**117600.**	**2022.**
Stddev	.0906	1.71	1.3	1.6	767.	22.
%RSD	14.32	1.737	.8781	.9616	.6518	1.069
#1	-.5961	97.49	145.8	159.6	116900.	1997.
#2	-.7357	97.96	148.1	161.8	117600.	2032.
#3	-.5659	100.7	147.9	162.5	118400.	2036.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8252.**	**1180.**	**1045.**	**85.78**	**53.38**	**-5.917**
Stddev	61.	7.	14.	.96	1.15	.663
%RSD	.7393	.6128	1.314	1.121	2.159	11.20
#1	8181.	1173.	1037.	85.04	52.06	-6.224
#2	8288.	1180.	1036.	85.43	54.21	-6.371
#3	8286.	1187.	1060.	86.86	53.86	-5.157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152132-d-4-a@4 Acquired: 3/22/2018 13:10:16 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.675**	**.8267**	**291.8**	**176.9**	**5.397**	**15.18**
Stddev	2.263	.8729	2.8	2.8	.425	1.60
%RSD	84.58	105.6	.9730	1.556	7.877	10.53
#1	-4.629	1.342	288.5	174.6	4.916	17.02
#2	-.1961	-.1812	293.0	176.2	5.721	14.22
#3	-3.200	1.319	293.8	180.0	5.555	14.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**10.03**	**42.83**	**3764.**	**542.5**
Stddev	.22	.40	23.	14.7
%RSD	2.191	.9371	.6206	2.712
#1	9.812	42.46	3746.	539.4
#2	10.02	42.77	3757.	529.6
#3	10.25	43.25	3791.	558.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1809.5**	**11554.**	**3757.2**
Stddev	11.5	71.	16.5
%RSD	.63449	.61176	.44023
#1	1798.3	11485.	3738.4
#2	1821.2	11550.	3763.5
#3	1808.9	11627.	3769.6

Sample Name: sd 460-152251-e-1-b Acquired: 3/22/2018 14:00:17 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.12**	**11.18**	**.0032**	**6.538**	**-.0032**	**11960.**
Stddev	3.10	.61	.2178	.212	.0733	259.
%RSD	30.61	5.455	6781.	3.247	2266.	2.162
#1	6.976	11.71	.0419	6.688	.0452	12110.
#2	13.17	10.51	-.2314	6.631	-.0876	12100.
#3	10.21	11.30	.1991	6.295	.0328	11660.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0415**	**1.776**	**-.3844**	**-.1001**	**3.299**	**1117.**
Stddev	.0815	.083	.5499	.2123	7.289	3.
%RSD	196.3	4.679	143.1	212.0	220.9	.2623
#1	.0504	1.869	-.6920	-.0731	9.563	1118.
#2	.1181	1.711	.2505	.0974	-4.701	1114.
#3	-.0441	1.746	-.7117	-.3247	5.035	1120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2310.**	**169.6**	**11930.**	**1.436**	**-.4855**	**2.008**
Stddev	66.	4.4	320.	.652	1.378	1.103
%RSD	2.853	2.594	2.683	45.39	283.8	54.91
#1	2319.	170.9	12180.	1.402	-.6082	3.069
#2	2371.	173.2	12040.	2.104	.9493	2.086
#3	2240.	164.7	11570.	.8017	-1.798	.8684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-152251-e-1-b Acquired: 3/22/2018 14:00:17 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.190**	**.9753**	**-.3585**	**16.16**	**6.854**	**104.2**
Stddev	.263	.7259	.2635	.51	.923	2.9
%RSD	8.248	74.43	73.49	3.167	13.47	2.817
#1	-2.887	.8130	-.4972	16.59	7.509	107.0
#2	-3.362	1.769	-.5237	16.29	7.253	104.5
#3	-3.321	.3443	-.0547	15.59	5.798	101.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0443**	**75.39**	**.9698**	**1629.**
Stddev	.3484	1.95	.1488	62.
%RSD	785.9	2.587	15.34	3.808
#1	-.3699	76.71	1.057	1674.
#2	.3231	76.32	1.054	1655.
#3	-.0861	73.15	.7980	1559.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1666.8**	**10503.**	**3408.5**
Stddev	40.1	215.	65.5
%RSD	2.4082	2.0475	1.9226
#1	1631.8	10346.	3355.5
#2	1658.1	10415.	3388.2
#3	1710.6	10748.	3481.7

Sample Name: 460-152251-e-1-d ms Acquired: 3/22/2018 13:48:52 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1800.**	**1741.**	**44.60**	**1756.**	**44.84**	**80170.**
Stddev	45.	45.	.35	41.	1.06	1706.
%RSD	2.509	2.588	.7936	2.313	2.355	2.128
#1	1852.	1791.	44.45	1802.	46.03	82090.
#2	1781.	1728.	45.00	1738.	44.49	79600.
#3	1768.	1704.	44.35	1727.	44.01	78830.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43.58**	**439.7**	**185.1**	**222.5**	**911.1**	**23520.**
Stddev	1.08	10.9	3.5	3.5	14.3	471.
%RSD	2.471	2.476	1.903	1.587	1.568	2.003
#1	44.82	452.2	189.1	226.5	924.3	24070.
#2	43.05	435.1	184.0	221.0	913.1	23290.
#3	42.87	431.9	182.3	219.9	895.9	23220.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29390.**	**1303.**	**79690.**	**432.0**	**428.0**	**400.6**
Stddev	587.	25.	1728.	9.9	9.9	9.7
%RSD	1.998	1.903	2.168	2.288	2.315	2.428
#1	30050.	1331.	81660.	442.7	438.8	410.5
#2	29200.	1297.	78960.	429.9	425.8	400.4
#3	28920.	1282.	78440.	423.3	419.3	391.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-1-d ms Acquired: 3/22/2018 13:48:52 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1742.**	**1803.**	**457.9**	**526.6**	**482.6**	**945.7**
Stddev	42.	39.	8.9	13.1	11.2	20.1
%RSD	2.434	2.169	1.951	2.478	2.315	2.129
#1	1790.	1847.	467.9	541.7	495.4	968.5
#2	1724.	1787.	455.1	520.2	477.6	938.3
#3	1711.	1774.	450.7	518.0	474.8	930.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**436.1**	**831.4**	**466.1**	**8576.**
Stddev	11.1	15.7	7.7	142.
%RSD	2.538	1.888	1.648	1.658
#1	448.5	849.5	474.8	8740.
#2	432.8	823.6	463.6	8496.
#3	427.1	821.2	460.1	8492.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1630.3**	**10213.**	**3352.2**
Stddev	26.7	139.	59.8
%RSD	1.6406	1.3591	1.7829
#1	1599.7	10056.	3286.6
#2	1642.1	10265.	3366.3
#3	1649.2	10318.	3403.6

Sample Name: 460-152251-e-4-b Acquired: 3/22/2018 14:12:10 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.96**	**4.016**	**-.2136**	**68.59**	**.0537**	**59420.**
Stddev	1.98	.934	.1224	.91	.0740	410.
%RSD	11.03	23.25	57.30	1.321	137.8	.6897
#1	15.78	5.084	-.2035	68.25	.1263	59860.
#2	19.65	3.352	-.0966	67.91	-.0216	59320.
#3	18.47	3.614	-.3408	69.62	.0565	59060.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2003**	**41.66**	**.3824**	**2.023**	**2.168**	**8383.**
Stddev	.0651	.48	.3946	.097	4.113	78.
%RSD	32.49	1.157	103.2	4.815	189.7	.9328
#1	.2678	41.42	.0641	2.021	4.379	8473.
#2	.1380	41.34	.2592	1.926	-2.578	8341.
#3	.1949	42.21	.8239	2.121	4.702	8335.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13310.**	**853.1**	**38100.**	**29.52**	**-1.386**	**-.1808**
Stddev	108.	5.6	411.	1.09	1.199	.6642
%RSD	.8140	.6511	1.078	3.694	86.49	367.3
#1	13430.	859.4	38560.	29.88	-.2240	-.4677
#2	13270.	851.0	37960.	28.30	-1.316	-.6534
#3	13220.	848.8	37780.	30.39	-2.619	.5786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-4-b Acquired: 3/22/2018 14:12:10 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.435**	**2.407**	**.0320**	**5.390**	**34.13**	**18.92**
Stddev	2.531	.587	.3855	.164	1.00	.09
%RSD	103.9	24.38	1206.	3.047	2.937	.4952
#1	-5.080	3.040	.4591	5.250	33.49	18.82
#2	-2.187	1.882	-.2900	5.348	33.61	18.94
#3	-.0376	2.299	-.0733	5.571	35.29	19.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.4506**	**335.2**	**.8808**	**7324.**
Stddev	.2582	3.5	.0322	91.
%RSD	57.30	1.044	3.659	1.242
#1	-.1931	339.2	.8722	7290.
#2	-.7094	333.8	.9164	7255.
#3	-.4493	332.7	.8537	7427.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1659.7**	**10525.**	**3450.4**
Stddev	16.3	39.	23.2
%RSD	.98280	.37035	.67148
#1	1663.9	10491.	3427.2
#2	1673.4	10515.	3450.4
#3	1641.7	10567.	3473.5

Sample Name: 460-152251-e-2-b Acquired: 3/22/2018 14:04:15 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.50**	**95.04**	**-.3649**	**32.73**	**.0063**	**52250.**
Stddev	1.70	.33	.3362	.25	.0729	593.
%RSD	8.693	.3522	92.13	.7780	1166.	1.134
#1	21.42	94.95	-.0147	32.76	-.0668	52720.
#2	18.20	95.41	-.3950	32.96	.0791	52440.
#3	18.89	94.77	-.6850	32.46	.0065	51580.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3437**	**2.405**	**-.2596**	**3.288**	**50.78**	**4267.**
Stddev	.1026	.038	.2296	.364	7.38	25.
%RSD	29.85	1.575	88.48	11.08	14.53	.5758
#1	.2278	2.376	-.5015	3.476	50.74	4285.
#2	.3802	2.448	-.2325	3.519	58.17	4239.
#3	.4230	2.391	-.0447	2.868	43.41	4278.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8767.**	**521.5**	**31180.**	**2.647**	**-2.219**	**5.384**
Stddev	88.	6.0	416.	.339	.246	.423
%RSD	1.002	1.151	1.334	12.79	11.10	7.860
#1	8834.	526.3	31650.	2.968	-2.023	5.104
#2	8799.	523.5	31010.	2.680	-2.495	5.871
#3	8668.	514.8	30870.	2.293	-2.138	5.178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-2-b Acquired: 3/22/2018 14:04:15 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9862**	**2.948**	**-.6764**	**22.94**	**18.42**	**78.14**
Stddev	.7580	1.549	.0965	.06	.34	.51
%RSD	76.86	52.54	14.26	.2816	1.853	.6549
#1	-.3726	3.634	-.5650	23.00	18.74	78.60
#2	-1.834	4.035	-.7339	22.96	18.06	78.23
#3	-.7525	1.174	-.7302	22.87	18.45	77.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1064**	**245.1**	**.8985**	**5519.**
Stddev	.0676	2.8	.0753	61.
%RSD	63.53	1.133	8.382	1.106
#1	.1486	248.2	.8915	5492.
#2	.1422	243.9	.9771	5477.
#3	.0284	243.1	.8270	5589.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1670.2**	**10424.**	**3447.9**
Stddev	4.7	64.	48.2
%RSD	.27965	.61641	1.3971
#1	1673.3	10391.	3405.3
#2	1672.5	10382.	3438.2
#3	1664.9	10498.	3500.1

Sample Name: 460-152251-e-3-b Acquired: 3/22/2018 14:08:12 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**32.62**	**60.37**	**-.0998**	**11.64**	**.0744**	**30150.**
Stddev	3.80	1.81	.5090	.14	.0632	129.
%RSD	11.65	2.996	509.7	1.210	84.89	.4284
#1	36.80	60.14	-.6179	11.49	.1387	30300.
#2	31.65	62.28	.3996	11.77	.0720	30080.
#3	29.39	58.68	-.0813	11.67	.0125	30070.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1299**	**.4713**	**.6283**	**2.702**	**49.90**	**3367.**
Stddev	.0298	.0474	.3739	.109	3.58	16.
%RSD	22.93	10.05	59.52	4.024	7.172	.4608
#1	.0957	.4276	.6651	2.581	53.75	3383.
#2	.1438	.5216	.2373	2.792	46.67	3352.
#3	.1501	.4646	.9824	2.732	49.29	3365.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6607.**	**39.56**	**44430.**	**.8864**	**-1.846**	**3.463**
Stddev	40.	.25	231.	.4224	.872	1.653
%RSD	.5987	.6330	.5192	47.65	47.27	47.73
#1	6649.	39.82	44660.	1.368	-1.573	4.312
#2	6599.	39.52	44200.	.5782	-1.142	1.558
#3	6571.	39.33	44430.	.7133	-2.822	4.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-3-b Acquired: 3/22/2018 14:08:12 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0007**	**2.511**	**-.0282**	**2.770**	**12.24**	**121.1**
Stddev	2.786	1.282	.2813	.117	.21	.5
%RSD	397400.	51.06	997.1	4.238	1.687	.3876
#1	2.615	2.878	-.0603	2.790	12.05	121.0
#2	.3133	1.086	.2678	2.875	12.46	121.6
#3	-2.930	3.571	-.2921	2.643	12.21	120.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0835**	**186.3**	**1.286**	**6701.**
Stddev	.4401	.9	.088	40.
%RSD	526.8	.4903	6.826	.5919
#1	.0528	187.0	1.188	6656.
#2	.5382	185.2	1.311	6731.
#3	-.3403	186.5	1.358	6716.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1687.8**	**10561.**	**3500.8**
Stddev	2.4	15.	14.9
%RSD	.14120	.14423	.42537
#1	1690.3	10544.	3491.7
#2	1687.7	10565.	3518.0
#3	1685.5	10574.	3492.8

Sample Name: 460-152330-a-2-a Acquired: 3/22/2018 14:16:05 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.05**	**2.635**	**.0347**	**20.21**	**.0265**	**13970.**
Stddev	8.12	.644	.3405	.28	.0580	23.
%RSD	40.49	24.44	980.2	1.377	218.4	.1657
#1	29.35	3.090	-.2901	20.02	-.0044	13960.
#2	14.41	2.918	.3890	20.07	-.0094	13950.
#3	16.39	1.898	.0054	20.53	.0934	13990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.703**	**1.551**	**31.42**	**.5541**	**11.34**	**2566.**
Stddev	.045	.150	.23	.0892	2.24	7.
%RSD	.7975	9.697	.7303	16.09	19.78	.2887
#1	5.676	1.721	31.64	.6383	13.90	2566.
#2	5.755	1.501	31.18	.5631	10.45	2574.
#3	5.677	1.433	31.44	.4607	9.686	2559.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3754.**	**158.4**	**39230.**	**4.070**	**-.3673**	**-.4323**
Stddev	27.	1.0	239.	.274	.1914	.3984
%RSD	.7108	.6371	.6078	6.742	52.10	92.15
#1	3728.	157.3	39480.	4.026	-.2578	-.7538
#2	3755.	158.6	39010.	4.364	-.2558	.0134
#3	3781.	159.3	39220.	3.820	-.5882	-.5566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152330-a-2-a Acquired: 3/22/2018 14:16:05 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.407**	**3.862**	**.4855**	**725.0**	**38.19**	**.0618**
Stddev	1.393	.545	.1254	.9	.34	.1814
%RSD	57.87	14.12	25.82	.1177	.9012	293.7
#1	-4.006	3.586	.6296	725.3	38.58	.2695
#2	-1.756	4.490	.4254	724.0	38.07	-.0651
#3	-1.459	3.510	.4014	725.6	37.93	-.0191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1400**	**93.64**	**.2199**	**3332.**
Stddev	.1843	1.35	.0791	11.
%RSD	131.6	1.443	35.96	.3221
#1	-.1309	94.72	.2723	3327.
#2	.0395	92.13	.1289	3345.
#3	-.3287	94.09	.2585	3325.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1685.6**	**10581.**	**3467.8**
Stddev	1.2	43.	10.7
%RSD	.07069	.40557	.30910
#1	1685.1	10630.	3466.3
#2	1686.9	10563.	3479.3
#3	1684.7	10550.	3458.0

Sample Name: CCV Acquired: 3/22/2018 14:23:41 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**112400.**	F **2200.**	F **1118.**	F **8949.**	**907.3**	**113600.**
Stddev	120.	2.	2.	8.	.4	171.
%RSD	.1066	.0818	.1794	.0856	.0481	.1504
#1	112300.	2200.	1119.	8944.	907.8	113500.
#2	112500.	2201.	1116.	8958.	907.1	113800.
#3	112500.	2197.	1120.	8946.	907.1	113400.
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value		2500.	1250.	10000.		
Range		-10.50%	-10.50%	-10.50%		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1113.**	F **2221.**	**4566.**	**11250.**	**91010.**	**45060.**
Stddev	2.	3.	9.	3.	155.	90.
%RSD	.1396	.1250	.2064	.0297	.1697	.1989
#1	1112.	2221.	4561.	11250.	90850.	45050.
#2	1114.	2224.	4577.	11250.	91160.	45150.
#3	1111.	2219.	4561.	11250.	91010.	44970.
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1250.	2500.				
Range	-10.50%	-10.50%				

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**112600.**	**4588.**	**113400.**	**2238.**	F **6669.**	F **871.4**
Stddev	74.	9.	278.	2.	8.	2.7
%RSD	.0660	.1953	.2452	.0750	.1269	.3041
#1	112500.	4580.	113700.	2239.	6665.	871.6
#2	112700.	4598.	113400.	2238.	6678.	873.9
#3	112600.	4586.	113100.	2236.	6662.	868.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value					7500.	1000.
Range					-10.50%	-10.50%

Sample Name: CCV Acquired: 3/22/2018 14:23:41 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **2200.**	**2248.**	**2261.**	**2247.**	F **883.5**	F **2216.**
Stddev	12.	10.	5.	2.	1.7	5.
%RSD	.5488	.4502	.2002	.0946	.1889	.2147
#1	2203.	2243.	2257.	2245.	882.2	2214.
#2	2210.	2260.	2266.	2249.	885.4	2222.
#3	2186.	2242.	2259.	2248.	883.0	2213.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value	2500.				1000.	2500.
Range	-10.50%				-10.50%	-10.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **891.0**	**4515.**	**9167.**	**8671.**
Stddev	1.6	33.	40.	39.
%RSD	.1819	.7369	.4351	.4456
#1	891.4	4543.	9149.	8700.
#2	892.4	4478.	9212.	8685.
#3	889.2	4523.	9138.	8627.
Check ?	Chk Fail	Chk Pass	Chk Pass	None
Value	1000.			
Range	-10.50%			

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1521.3**	**10088.**	**3375.4**
Stddev	1.1	22.	12.1
%RSD	.07478	.22005	.35884
#1	1522.1	10103.	3389.4
#2	1520.0	10062.	3368.6
#3	1521.9	10098.	3368.2

Sample Name: CCVL Acquired: 3/22/2018 14:31:30 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**174.9**	**13.56**	**7.989**	**165.3**	**1.662**	**4213.**
Stddev	1.5	.98	.051	1.2	.035	18.
%RSD	.8787	7.217	.6335	.7377	2.098	.4169
#1	176.6	14.35	7.975	165.8	1.622	4199.
#2	174.3	12.46	8.045	166.3	1.684	4233.
#3	173.8	13.86	7.946	164.0	1.680	4208.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.241**	**40.96**	**9.072**	**18.82**	**126.7**	**4134.**
Stddev	.020	.31	.511	.15	4.2	15.
%RSD	.6168	.7649	5.629	.8065	3.298	.3687
#1	3.251	41.10	9.622	18.88	129.4	4139.
#2	3.219	41.18	8.613	18.93	121.9	4147.
#3	3.255	40.60	8.979	18.65	128.8	4117.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4055.**	**13.39**	**4150.**	**33.57**	**8.548**	**15.73**
Stddev	17.	.17	17.	.17	.583	.58
%RSD	.4249	1.235	.4173	.5150	6.818	3.661
#1	4042.	13.20	4170.	33.73	8.154	15.19
#2	4075.	13.50	4143.	33.60	8.272	16.34
#3	4049.	13.47	4137.	33.39	9.217	15.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/22/2018 14:31:30 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15.27**	**20.44**	**42.23**	**25.48**	F **28.97**	**16.08**
Stddev	1.29	.89	.39	.09	.38	.40
%RSD	8.457	4.343	.9286	.3713	1.328	2.475
#1	16.71	20.37	41.84	25.41	28.92	15.80
#2	14.88	19.59	42.62	25.58	28.62	16.54
#3	14.22	21.36	42.24	25.43	29.38	15.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					50.00	
Range					-30.50%	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**40.23**	**16.51**	**17.32**	F **-62.24**
Stddev	.26	.07	.11	.81
%RSD	.6343	.4193	.6390	1.300
#1	40.38	16.58	17.20	-63.17
#2	40.37	16.50	17.41	-61.83
#3	39.93	16.44	17.36	-61.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1713.7**	**10821.**	**3499.9**
Stddev	14.6	44.	12.3
%RSD	.84923	.41016	.35231
#1	1703.0	10837.	3495.5
#2	1707.7	10771.	3490.3
#3	1730.2	10856.	3513.8

Sample Name: mb 460-505200/1-a Acquired: 3/22/2018 14:35:27 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.330**	**2.180**	**-.2450**	**.0594**	**-.0089**	**24.56**
Stddev	3.879	.596	.2142	.0490	.0218	2.31
%RSD	52.92	27.34	87.43	82.52	246.1	9.410
#1	11.79	2.858	-.4810	.1156	-.0320	27.06
#2	5.452	1.739	-.1912	.0370	-.0057	24.12
#3	4.747	1.943	-.0628	.0256	.0112	22.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0083**	**-.1359**	**-.0566**	**-1.346**	**-7.566**	**-12.93**
Stddev	.1075	.0206	.3076	.208	5.895	36.03
%RSD	1289.	15.17	543.6	15.44	77.91	278.6
#1	.0202	-.1482	.1052	-1.582	-14.08	28.56
#2	.1095	-.1475	-.4113	-1.263	-2.589	-31.12
#3	-.1046	-.1121	.1363	-1.192	-6.033	-36.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.422**	**-.0393**	**13.60**	**.1045**	**-.2349**	**.2454**
Stddev	7.319	.0163	2.82	.5102	1.017	.5114
%RSD	302.2	41.37	20.77	488.4	432.8	208.4
#1	-3.599	-.0577	11.87	-.4572	-1.123	.1344
#2	.2947	-.0336	12.08	.5393	-.4559	.8033
#3	10.57	-.0267	16.86	.2314	.8740	-.2013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-505200/1-a Acquired: 3/22/2018 14:35:27 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4939**	**2.252**	**.1833**	**-.1189**	**-2.737**	**.0181**
Stddev	.7535	1.679	.2752	.1222	.262	.1674
%RSD	152.6	74.58	150.1	102.8	9.577	925.3
#1	1.060	1.349	.3771	.0209	-2.590	-.1517
#2	.7836	1.216	.3045	-.1721	-3.040	.1829
#3	-.3614	4.189	-.1317	-.2056	-2.582	.0230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3487**	**.0169**	**-.2209**	**-23.82**
Stddev	.1710	.0837	.0805	8.72
%RSD	49.03	495.9	36.47	36.61
#1	.5125	.0284	-.1382	-33.43
#2	.1714	.0942	-.2252	-16.43
#3	.3623	-.0720	-.2991	-21.59
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1745.9**	**11036.**	**3545.8**
Stddev	7.6	37.	38.0
%RSD	.43321	.33107	1.0721
#1	1740.5	11002.	3502.4
#2	1742.6	11031.	3561.6
#3	1754.5	11074.	3573.4

Sample Name: lcs 460-505199/2-a Acquired: 3/22/2018 13:29:24 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1937.**	**1815.**	**48.05**	**1930.**	**48.48**	**19330.**
Stddev	6.	55.	.29	58.	.25	6.
%RSD	.2990	3.045	.6119	3.005	.5144	.0334
#1	1934.	1777.	47.73	1899.	48.72	19330.
#2	1933.	1790.	48.31	1894.	48.22	19320.
#3	1944.	1878.	48.11	1997.	48.49	19340.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.79**	**482.6**	**205.5**	**236.0**	**975.7**	**19110.**
Stddev	1.51	14.1	.7	1.4	6.5	92.
%RSD	3.170	2.924	.3578	.5913	.6648	.4809
#1	47.21	474.6	206.4	235.6	969.7	19120.
#2	46.65	474.2	205.1	237.6	982.6	19020.
#3	49.51	498.8	205.1	234.9	974.9	19200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18750.**	**514.4**	**19540.**	**478.4**	**483.5**	**445.5**
Stddev	8.	.4	93.	14.9	14.7	9.6
%RSD	.0408	.0729	.4754	3.106	3.044	2.150
#1	18740.	514.5	19610.	470.3	474.2	440.8
#2	18740.	514.7	19430.	469.3	475.8	439.2
#3	18760.	513.9	19570.	495.5	500.5	456.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: lcs 460-505199/2-a Acquired: 3/22/2018 13:29:24 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1834.**	**2009.**	**498.7**	**495.8**	**473.6**	**476.9**
Stddev	52.	60.	.8	15.6	16.8	14.3
%RSD	2.853	3.004	.1697	3.150	3.544	3.000
#1	1805.	1979.	498.0	487.6	465.0	468.3
#2	1802.	1969.	499.6	486.1	462.9	469.0
#3	1894.	2078.	498.4	513.8	493.0	493.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**482.7**	**481.5**	**502.0**	**81.22**
Stddev	15.6	2.1	1.3	15.87
%RSD	3.233	.4272	.2536	19.54
#1	474.1	482.3	500.8	70.07
#2	473.2	479.2	501.9	74.21
#3	500.7	483.0	503.4	99.39
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1494.2**	**9531.2**	**3087.5**
Stddev	39.0	16.5	17.7
%RSD	2.6097	.17297	.57249
#1	1514.3	9542.7	3083.2
#2	1519.2	9512.3	3106.9
#3	1449.3	9538.6	3072.4

Sample Name: 460-152251-e-1-c du Acquired: 3/22/2018 13:52:29 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.58**	**46.44**	**-.3821**	**31.77**	**.0073**	**59890.**
Stddev	9.09	1.01	.5991	.30	.0472	150.
%RSD	24.19	2.168	156.8	.9462	649.9	.2508
#1	46.77	46.33	-.5716	31.58	-.0148	59720.
#2	37.40	47.50	.2888	32.12	-.0249	60010.
#3	28.59	45.50	-.8636	31.62	.0615	59950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5139**	**8.235**	**-.2591**	**2.974**	**33.31**	**5697.**
Stddev	.0407	.067	.3385	.182	3.84	13.
%RSD	7.918	.8168	130.6	6.111	11.51	.2278
#1	.4893	8.254	-.1993	2.818	34.61	5699.
#2	.5609	8.160	.0455	2.930	28.99	5684.
#3	.4915	8.290	-.6236	3.174	36.33	5710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11380.**	**807.7**	**59040.**	**6.466**	**-2.619**	**4.590**
Stddev	44.	2.7	48.	.791	1.463	1.050
%RSD	.3825	.3335	.0819	12.24	55.89	22.88
#1	11330.	804.6	59090.	5.602	-2.476	5.156
#2	11420.	809.6	59040.	7.156	-1.232	5.236
#3	11380.	808.8	59000.	6.639	-4.148	3.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-1-c du Acquired: 3/22/2018 13:52:29 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3356**	**4.260**	**-2.032**	**81.55**	**41.08**	**509.2**
Stddev	1.109	.456	.084	.37	.42	.8
%RSD	330.6	10.70	4.137	.4565	1.019	.1516
#1	-1.579	4.763	-1.942	81.77	40.75	508.5
#2	.0194	3.874	-2.108	81.12	40.94	509.2
#3	.5529	4.143	-2.046	81.76	41.56	510.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3946**	**364.7**	**4.378**	**8402.**
Stddev	.4900	.1	.219	42.
%RSD	124.2	.0290	5.003	.4998
#1	.9582	364.7	4.630	8395.
#2	.0699	364.6	4.229	8365.
#3	.1557	364.8	4.276	8448.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1659.3**	**10441.**	**3453.8**
Stddev	4.1	49.	12.3
%RSD	.24751	.46900	.35550
#1	1655.3	10491.	3457.7
#2	1663.5	10393.	3440.0
#3	1659.1	10439.	3463.6

Sample Name: CCB Acquired: 3/22/2018 13:36:53 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.12**	**1.887**	**-.3414**	**.3718**	**.0485**	**7.147**
Stddev	2.50	1.717	.2014	.2990	.0895	8.406
%RSD	24.65	91.01	59.00	80.42	184.6	117.6
#1	10.01	.7198	-.3941	.6700	.1438	16.85
#2	12.67	1.082	-.5112	.3731	-.0338	2.185
#3	7.688	3.859	-.1188	.0721	.0354	2.404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0054**	**.0842**	**-.0759**	**.0172**	**13.89**	**17.08**
Stddev	.0688	.0566	.6106	.5440	8.48	9.02
%RSD	1263.	67.21	804.6	3165.	61.04	52.78
#1	.0777	.0912	.6264	.5513	23.68	13.50
#2	-.0593	.1370	-.3732	-.5361	9.344	27.34
#3	-.0021	.0244	-.4808	.0363	8.658	10.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.429**	**.2256**	**20.94**	**-.1440**	**.9308**	**-.6021**
Stddev	7.382	.1745	9.59	.2170	.5958	.6385
%RSD	166.7	77.33	45.80	150.7	64.01	106.1
#1	12.53	.4194	31.24	.0558	1.441	-.9536
#2	2.688	.1764	12.28	-.1129	.2760	.1349
#3	-1.927	.0810	19.29	-.3749	1.076	-.9876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/22/2018 13:36:53 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1489**	**1.543**	**.1224**	**.2124**	**1.232**	**1.226**
Stddev	1.600	1.169	.4578	.1497	.695	.603
%RSD	1075.	75.78	374.0	70.49	56.43	49.21
#1	-1.940	2.132	.3880	.3382	1.729	1.910
#2	.3567	2.301	.3854	.2523	1.528	.9970
#3	1.137	.1964	-.4062	.0468	.4375	.7701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0239**	**.1783**	**1.548**	**.0189**
Stddev	.3909	.1230	.705	4.675
%RSD	1637.	68.95	45.53	24680.
#1	-.4703	.2203	2.354	3.241
#2	.1420	.2749	1.244	2.159
#3	.2567	.0399	1.046	-5.344
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1579.7**	**9931.3**	**3197.3**
Stddev	6.3	24.9	14.2
%RSD	.40099	.25056	.44356
#1	1572.5	9957.9	3192.3
#2	1584.3	9908.5	3186.4
#3	1582.4	9927.6	3213.4

Sample Name: 460-152251-e-1-b Acquired: 3/22/2018 13:56:23 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29.25**	**47.95**	**-.4437**	**32.88**	**-.0105**	**62290.**
Stddev	9.29	1.63	.2449	.26	.0479	498.
%RSD	31.76	3.396	55.20	.8020	457.1	.7994
#1	36.47	47.49	-.2163	33.07	-.0051	62570.
#2	18.77	49.76	-.4117	32.99	-.0608	62580.
#3	32.52	46.61	-.7030	32.58	.0345	61710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5948**	**8.266**	**-.3908**	**3.300**	**20.65**	**5928.**
Stddev	.0357	.088	.2070	.167	7.40	16.
%RSD	6.000	1.062	52.97	5.071	35.82	.2699
#1	.5757	8.227	-.5987	3.466	29.19	5942.
#2	.6360	8.205	-.3892	3.303	16.45	5932.
#3	.5728	8.367	-.1847	3.131	16.31	5911.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11810.**	**840.1**	**61330.**	**6.616**	**-3.364**	**3.539**
Stddev	84.	8.4	764.	.123	.389	1.690
%RSD	.7116	.9956	1.246	1.863	11.58	47.75
#1	11890.	844.3	62200.	6.486	-3.651	4.869
#2	11820.	845.5	61060.	6.732	-3.520	4.110
#3	11730.	830.4	60750.	6.630	-2.921	1.638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-152251-e-1-b Acquired: 3/22/2018 13:56:23 Type: Unk
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3349**	**3.298**	**-2.361**	**84.08**	**44.13**	**528.8**
Stddev	.7469	2.376	.406	.71	.80	4.4
%RSD	223.0	72.05	17.20	.8428	1.824	.8328
#1	-.5104	2.951	-2.234	84.72	43.96	533.2
#2	.9060	1.114	-2.034	84.20	45.00	529.0
#3	.6093	5.828	-2.816	83.31	43.42	524.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0366**	**378.5**	**4.120**	**8695.**
Stddev	.1590	4.1	.157	21.
%RSD	434.5	1.086	3.806	.2453
#1	.0729	383.2	4.187	8684.
#2	.1742	376.4	4.232	8720.
#3	-.1374	375.8	3.941	8681.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1614.1**	**10115.**	**3331.9**
Stddev	9.4	68.	33.7
%RSD	.58381	.67080	1.0117
#1	1605.3	10106.	3296.3
#2	1613.0	10052.	3336.0
#3	1624.0	10187.	3363.4

Sample Name: CCV Acquired: 3/22/2018 13:33:04 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**116800.**	**2283.**	**1157.**	**9288.**	**942.3**	**118100.**
Stddev	314.	13.	.	33.	.2	124.
%RSD	.2692	.5716	.0414	.3602	.0194	.1053
#1	117100.	2297.	1158.	9323.	942.2	118100.
#2	116500.	2271.	1157.	9285.	942.1	118100.
#3	116700.	2281.	1157.	9256.	942.5	117900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1155.**	**2305.**	**4755.**	**11700.**	**94840.**	**46870.**
Stddev	5.	10.	11.	14.	185.	199.
%RSD	.4251	.4280	.2303	.1160	.1952	.4237
#1	1160.	2316.	4766.	11720.	94830.	47080.
#2	1155.	2304.	4756.	11710.	95030.	46690.
#3	1150.	2296.	4744.	11690.	94660.	46850.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**117000.**	**4785.**	**118200.**	**2321.**	**6929.**	**902.5**
Stddev	241.	6.	550.	13.	28.	5.3
%RSD	.2058	.1237	.4655	.5596	.4015	.5823
#1	117200.	4789.	118800.	2335.	6958.	908.5
#2	116900.	4788.	117900.	2318.	6928.	899.7
#3	116700.	4778.	117800.	2309.	6902.	899.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/22/2018 13:33:04 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2286.**	**2333.**	**2353.**	**2333.**	**919.7**	**2302.**
Stddev	17.	9.	3.	11.	3.3	8.
%RSD	.7412	.3970	.1095	.4768	.3591	.3350
#1	2295.	2341.	2356.	2344.	923.0	2310.
#2	2297.	2336.	2354.	2334.	916.4	2300.
#3	2267.	2323.	2351.	2321.	919.7	2295.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**924.8**	**4667.**	**9529.**	**8950.**
Stddev	5.0	43.	53.	17.
%RSD	.5404	.9202	.5594	.1856
#1	930.5	4716.	9484.	8936.
#2	922.7	4648.	9514.	8968.
#3	921.2	4636.	9588.	8946.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1427.0**	**9432.9**	**3148.9**
Stddev	5.8	21.0	13.7
%RSD	.40619	.22277	.43485
#1	1421.1	9409.9	3133.6
#2	1427.3	9451.1	3159.8
#3	1432.7	9437.8	3153.4

Sample Name: Z 460-505200/2-a Acquired: 3/22/2018 14:20:01 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1687.**	F **1559.**	F **41.07**	F **1661.**	F **42.24**	F **16740.**
Stddev	16.	20.	.86	13.	.28	96.
%RSD	.9441	1.284	2.099	.7822	.6516	.5747
#1	1692.	1545.	40.52	1651.	41.93	16640.
#2	1700.	1582.	40.63	1676.	42.43	16830.
#3	1669.	1549.	42.07	1656.	42.38	16760.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2000.	2000.	50.00	2000.	50.00	20000.
Range	-15.00%	-15.00%	-15.00%	-15.00%	-15.00%	-15.00%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **41.07**	F **415.6**	**177.2**	F **203.1**	F **847.2**	F **16670.**
Stddev	.35	3.3	2.7	2.5	4.7	48.
%RSD	.8638	.7897	1.541	1.246	.5508	.2850
#1	40.77	413.1	174.1	200.2	842.2	16620.
#2	41.46	419.3	178.3	204.7	847.7	16710.
#3	40.98	414.3	179.2	204.4	851.5	16680.
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
Value	50.00	500.0		250.0	1000.	20000.
Range	-15.00%	-15.00%		-15.00%	-15.00%	-15.00%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **16220.**	**444.1**	F **16990.**	F **411.3**	F **416.3**	F **383.1**
Stddev	86.	3.2	46.	4.1	3.5	2.3
%RSD	.5290	.7217	.2721	.9882	.8297	.5968
#1	16130.	440.4	16940.	407.9	414.9	381.3
#2	16240.	446.1	17030.	415.8	420.2	385.7
#3	16300.	445.8	17000.	410.3	413.6	382.2
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20000.		20000.	500.0	500.0	500.0
Range	-15.00%		-15.00%	-15.00%	-15.00%	-15.00%

Sample Name: Z 460-505200/2-a Acquired: 3/22/2018 14:20:01 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1572.**	**1726.**	**434.2**	**426.1**	F **405.2**	F **408.7**
Stddev	17.	14.	5.2	3.1	3.5	3.8
%RSD	1.066	.8059	1.195	.7245	.8518	.9387
#1	1556.	1715.	428.2	427.1	402.1	405.6
#2	1589.	1742.	437.1	428.6	408.9	413.0
#3	1570.	1722.	437.3	422.6	404.7	407.6
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value	2000.				500.0	500.0
Range	-15.00%				-15.00%	-15.00%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **414.9**	F **420.9**	**434.0**	**45.97**
Stddev	3.7	1.6	4.0	3.33
%RSD	.8936	.3830	.9202	7.235
#1	412.5	419.2	429.5	49.25
#2	419.1	421.2	435.8	42.60
#3	412.9	422.3	436.9	46.05
Check ?	Chk Fail	Chk Fail	Chk Pass	None
Value	500.0	500.0		
Range	-15.00%	-15.00%		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1693.4**	**10751.**	**3486.7**
Stddev	13.5	49.	12.9
%RSD	.79558	.45527	.36892
#1	1699.0	10807.	3479.0
#2	1678.0	10727.	3479.7
#3	1703.1	10718.	3501.6

Sample Name: CCB Acquired: 3/22/2018 14:27:29 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.740**	**3.130**	**-.2610**	**.2015**	**.0428**	**24.43**
Stddev	6.127	.754	.1985	.1035	.0640	5.68
%RSD	106.7	24.09	76.04	51.35	149.3	23.26
#1	4.400	3.662	-.0329	.3067	.1126	30.97
#2	12.43	2.267	-.3558	.1979	.0290	21.63
#3	.3938	3.462	-.3943	.0999	-.0131	20.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0090**	**.1358**	**-.0875**	**-.9726**	**8.120**	**-19.42**
Stddev	.0821	.0808	.3662	.1830	11.03	10.89
%RSD	917.3	59.46	418.4	18.82	135.9	56.10
#1	-.0025	.2152	.3352	-.9462	19.26	-12.21
#2	.0962	.1387	-.3094	-1.167	-2.805	-31.95
#3	-.0668	.0537	-.2884	-.8042	7.910	-14.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5601**	**.0836**	**27.25**	**.2950**	**.5801**	**.2971**
Stddev	4.845	.0298	11.13	.2000	.7631	.8159
%RSD	865.0	35.63	40.82	67.78	131.6	274.6
#1	1.715	.1160	32.14	.4447	.2673	-.1924
#2	2.728	.0774	35.09	.3724	1.450	1.239
#3	-6.124	.0574	14.52	.0679	.0230	-.1552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/22/2018 14:27:29 Type: QC
Method: BC031118(v11) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3180**	**2.033**	**-.0894**	**-.0196**	**-1.740**	**1.508**
Stddev	1.182	.496	.0966	.0714	.270	.740
%RSD	371.9	24.41	108.0	364.3	15.52	49.04
#1	-1.607	2.490	-.0707	-.0113	-1.443	2.347
#2	-.0623	2.102	-.1939	.0473	-1.808	1.232
#3	.7156	1.505	-.0035	-.0948	-1.970	.9469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3738**	**.1738**	**1.115**	**-22.85**
Stddev	.1920	.1522	.491	2.72
%RSD	51.37	87.59	44.02	11.90
#1	.2455	.2929	1.668	-24.06
#2	.5946	.2263	.9473	-24.76
#3	.2814	.0023	.7305	-19.74
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**1727.9**	**10925.**	**3538.5**
Stddev	.7	9.	14.6
%RSD	.03767	.08502	.41232
#1	1727.3	10916.	3523.0
#2	1727.7	10925.	3552.0
#3	1728.6	10934.	3540.4

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 19 Mar 2018 02:47:51 pm
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\IS_TUNE.M

Minimum Response(CPS)

Element	Actual	Required	Flag

RSD (%)

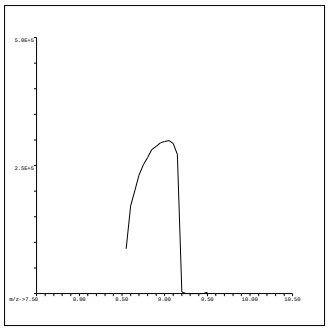
Element	Actual	Required	Flag
9 Be	1.27	5.00	
24 Mg	2.00	5.00	
25 Mg	1.98	5.00	
26 Mg	1.64	5.00	
59 Co	1.49	5.00	
115 In	0.81	5.00	
206 Pb	0.81	5.00	
207 Pb	0.76	5.00	
208 Pb	1.55	5.00	

Ion Ratio

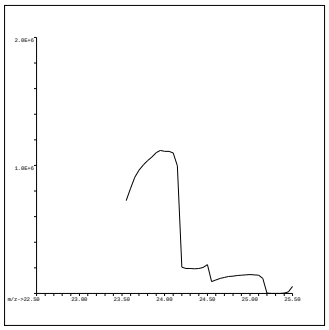
Element	Actual	Required	Flag

Maximum Bkg. Count(CPS)

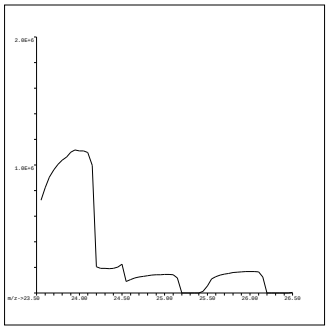
Element	Actual	Required	Flag



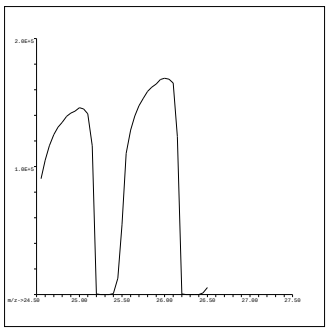
9 Be
Mass Calib.
Actual: 9.00
Required: 8.90-9.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



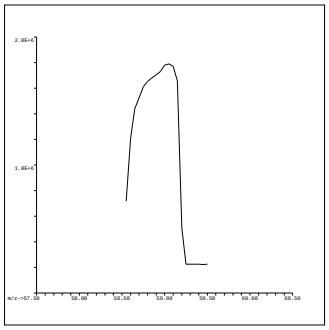
24 Mg
Mass Calib.
Actual: 24.00
Required: 23.90-24.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



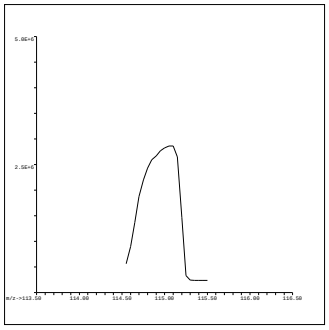
25 Mg
Mass Calib.
Actual: 25.00
Required: 24.90-25.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



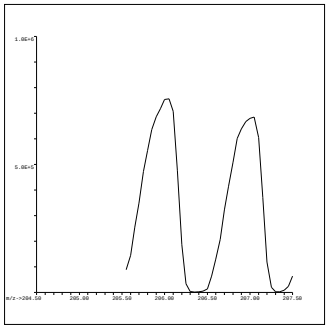
26 Mg
Mass Calib.
Actual: 26.00
Required: 25.90-26.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



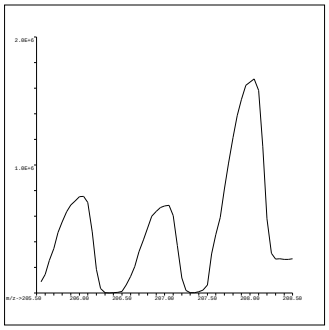
59 Co
Mass Calib.
   Actual: 59.00
   Required: 58.90-59.10
   Flag:
Peak Width
   Actual: 0.60
   Required: 0.90
   Flag:



115 In
Mass Calib.
   Actual: 115.00
   Required: 114.90-115.10
   Flag:
Peak Width
   Actual: 0.60
   Required: 0.90
   Flag:

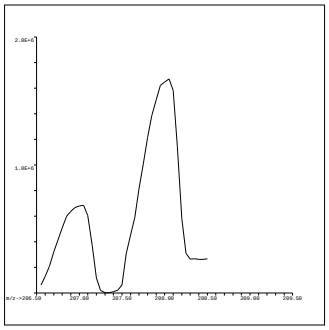


206 Pb
Mass Calib.
   Actual: 206.00
   Required: 205.90-206.10
   Flag:
Peak Width
   Actual: 0.60
   Required: 0.90
   Flag:



207 Pb
Mass Calib.
   Actual: 207.00
   Required: 206.90-207.10
   Flag:
Peak Width
   Actual: 0.60
   Required: 0.90
   Flag:

C:\ICPMH\1\7500\qctune.d



208 Pb
Mass Calib.
   Actual: 208.00
   Required: 207.90-208.10
   Flag:
Peak Width
   Actual: 0.60
   Required: 0.90
   Flag:

QC Tune Result:Pass

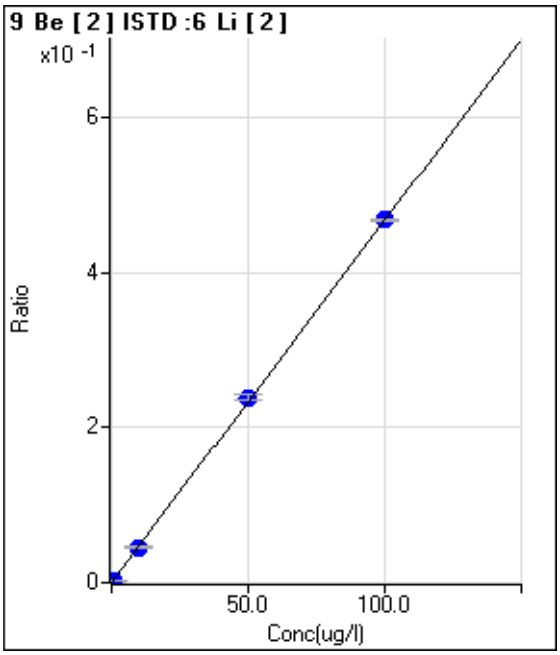
C:\ICPMH\1\7500\qctune.d

Replicated Data: Tune #1

Mass	Count(CPS)				
9	157671.91	161107.30	162341.41	165050.80	164438.20
24	710621.31	721300.81	720269.69	729762.38	731558.81
25	85297.96	86996.83	86764.79	88705.37	88451.94
26	96486.06	97964.64	98818.99	98596.48	99942.09
59	1088424.00	1104247.00	1104708.00	1118250.00	1115242.00
101	11.00	6.50	10.00	9.50	13.50
102	12.50	14.50	9.50	14.00	12.50
115	1577292.00	1575633.00	1578177.00	1574837.00	1599536.00
206	339179.19	342989.00	343767.19	340841.50	343023.41
207	304672.19	305324.81	306413.31	308435.81	307427.31
208	854215.31	857961.13	854962.81	860497.13	865356.13

Batch Folder:	C:\ICPMH\1\DATA\18C19o00.B\
Analysis File:	18C19o00.batch.xml
DA Date-Time:	3/19/2018 4:04:16 PM
Calibration Title:	
Calibration Method:	External Calibration
VIS Interpolation Fit:	
Tune Step:	#1 h2.u
	#2 he.u

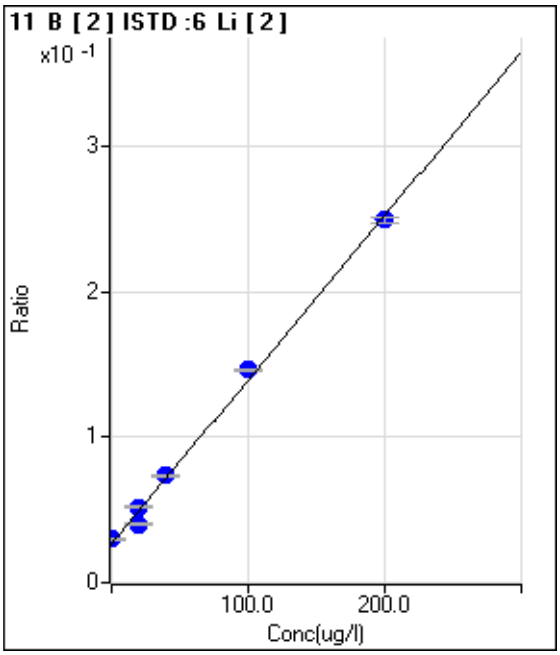
Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.D	ICIS Cal Blank	3/19/2018 3:04:17 PM
2	005CALS.D	CAL1 5806481	3/19/2018 3:07:39 PM
3	006CALS.D	CAL2 5806483	3/19/2018 3:10:59 PM
4	007CALS.D	CAL3 5806485	3/19/2018 3:14:21 PM
5	008CALS.D	CAL4 5806487	3/19/2018 3:17:40 PM
6	009CALS.D	CAL5 5806489	3/19/2018 3:20:58 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.004	4.67	0.0002	P	19.5
2	☐	0.200	0.186	21.67	0.0011	P	11.2
3	☐	0.400	0.383	40.22	0.0020	P	6.2
4	☐	10.000	9.716	937.48	0.0456	P	2.4
5	☐	50.000	51.131	4623.55	0.2392	P	2.7
6	☐	100.000	100.220	9584.36	0.4687	P	0.8

y = 0.0047 * x + 2.0153E-004
R = 0.9999
DL = 0.02765
BEC = 0.04311

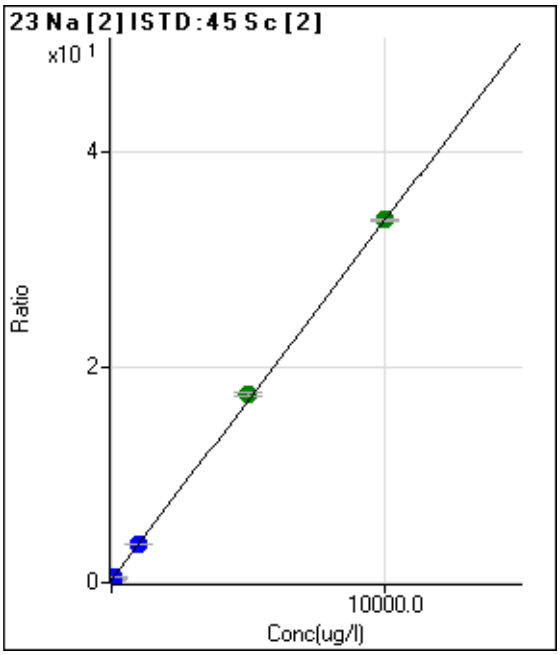
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	3.140	638.91	0.0302	P	4.9
2	☐	20.000	11.659	804.48	0.0398	P	3.0
3	☐	40.000	41.663	1486.20	0.0737	P	1.7
4	☐	20.000	22.627	1072.83	0.0522	P	1.8
5	☐	100.000	106.223	2830.29	0.1464	P	1.1
6	☐	200.000	197.541	5098.09	0.2493	P	1.4

y = 0.0011 * x + 0.0267
R = 0.9977
DL = 3.95
BEC = 23.69

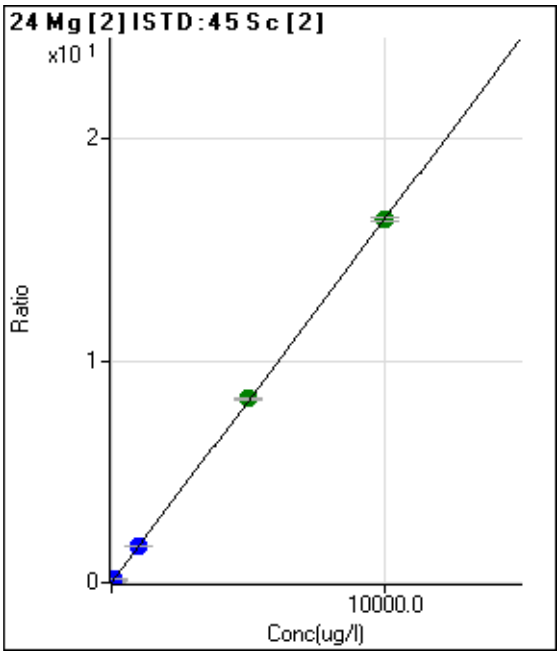
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.821	33901.47	0.2596	P	0.4
2	☐	50.000	51.579	56333.62	0.4342	P	0.3
3	☐	100.000	102.476	78251.70	0.6039	P	0.5
4	☐	1000.000	990.111	464914.97	3.5625	P	0.3
5	☐	5000.000	5164.525	2289902.03	17.4764	A	1.6
6	☐	10000.000	10031.683	4497909.38	33.6994	A	0.3

y = 0.0033 * x + 0.2623
R = 0.9999
DL = 0.8629
BEC = 78.69

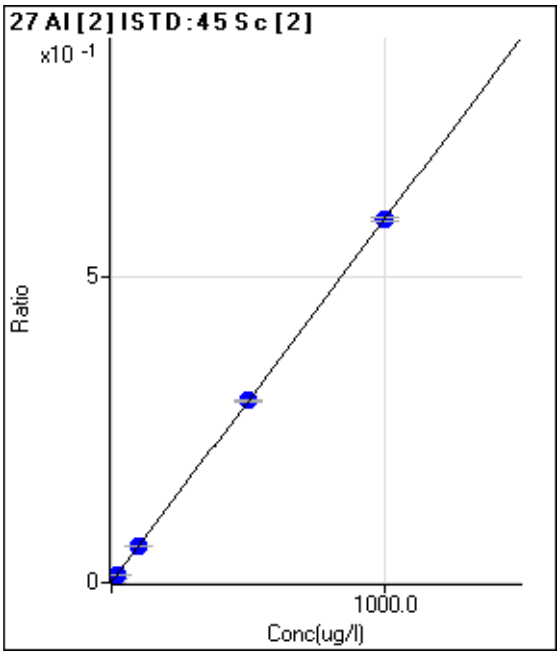
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.89	0.0012	P	9.0
2	☐	50.000	49.747	10711.67	0.0826	P	1.5
3	☐	100.000	102.994	21982.22	0.1696	P	2.2
4	☐	1000.000	997.578	213056.61	1.6325	P	0.6
5	☐	5000.000	5058.269	1083915.43	8.2727	A	1.6
6	☐	10000.000	9989.635	2180409.62	16.3367	A	1.0

y = 0.0016 * x + 0.0012
R = 1.0000
DL = 0.2011
BEC = 0.7439

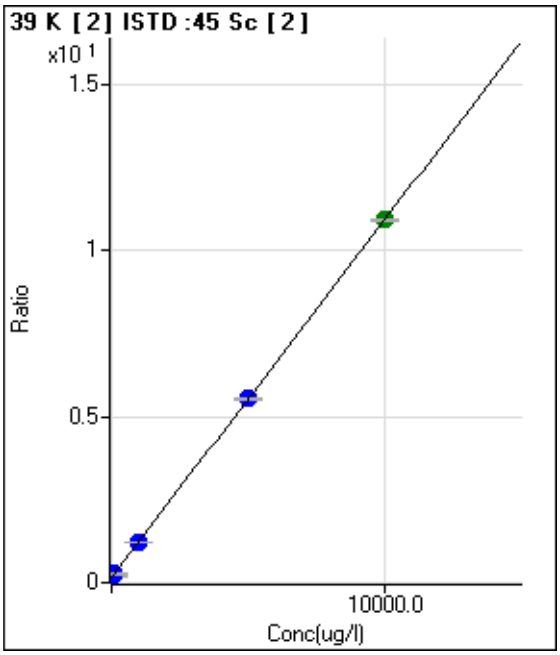
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.023	64.45	0.0005	P	9.8
2	☐	10.000	10.043	839.48	0.0065	P	4.4
3	☐	20.000	20.396	1635.11	0.0126	P	2.4
4	☐	100.000	100.638	7864.80	0.0603	P	1.4
5	☐	500.000	500.301	38987.29	0.2975	P	1.2
6	☐	1000.000	998.659	79209.34	0.5934	P	0.9

y = 5.9372E-004 * x + 5.0730E-004
R = 1.0000
DL = 0.2436
BEC = 0.8544

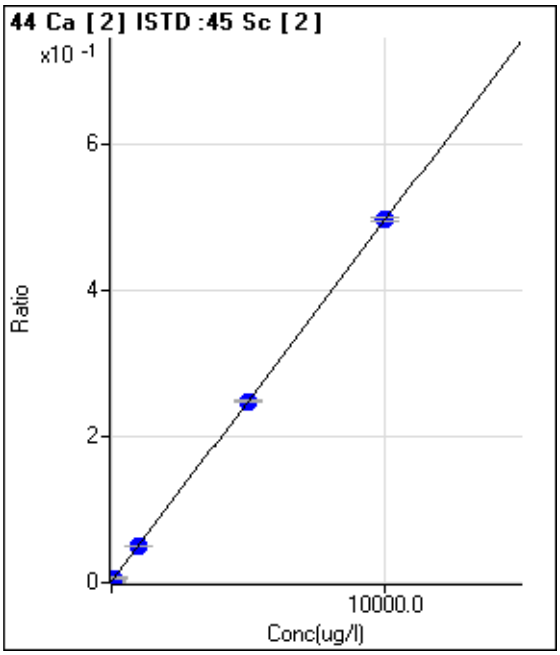
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.846	20137.82	0.1543	P	11.5
2	☐	50.000	48.512	26897.73	0.2074	P	8.9
3	☐	100.000	104.077	34608.05	0.2671	P	7.4
4	☐	1000.000	997.167	160209.31	1.2277	P	1.4
5	☐	5000.000	4995.469	724325.55	5.5282	P	1.0
6	☐	10000.000	10005.719	1457125.33	10.9172	A	0.2

y = 0.0011 * x + 0.1552
R = 1.0000
DL = 49.68
BEC = 144.3

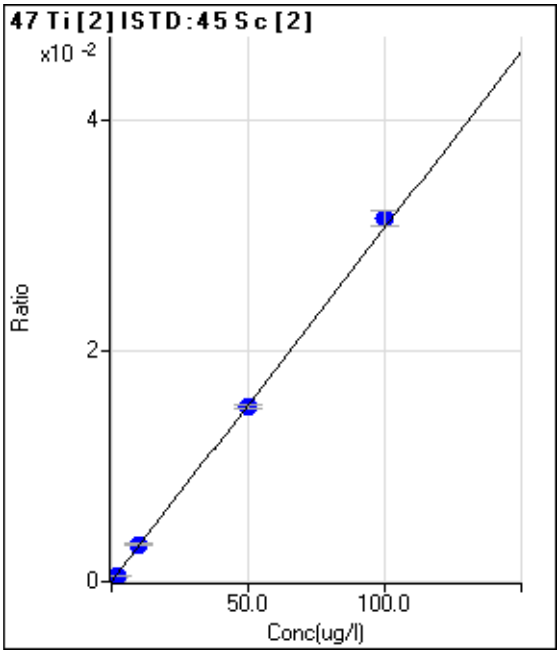
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-5.208	180.01	0.0014	P	9.8
2	☐	50.000	62.798	614.47	0.0047	P	4.1
3	☐	100.000	98.622	842.81	0.0065	P	5.6
4	☐	1000.000	991.369	6602.02	0.0506	P	0.9
5	☐	5000.000	5001.588	32577.94	0.2486	P	0.3
6	☐	10000.000	10031.729	66339.91	0.4970	P	1.1

y = 4.9382E-005 * x + 0.0016
R = 1.0000
DL = 8.162
BEC = 33.1

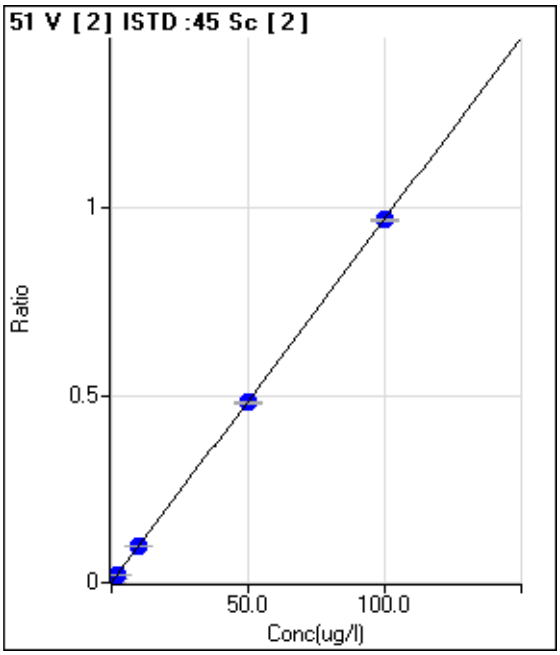
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.001	2.78	0.0000	P	68.1
2	☐	1.000	1.094	46.11	0.0004	P	17.4
3	☐	2.000	1.587	65.56	0.0005	P	21.3
4	☐	10.000	10.470	420.57	0.0032	P	7.2
5	☐	50.000	49.589	1988.49	0.0152	P	2.2
6	☐	100.000	102.630	4190.06	0.0314	P	4.4

y = 3.0562E-004 * x + 2.0912E-005
R = 0.9999
DL = 0.1416
BEC = 0.06843

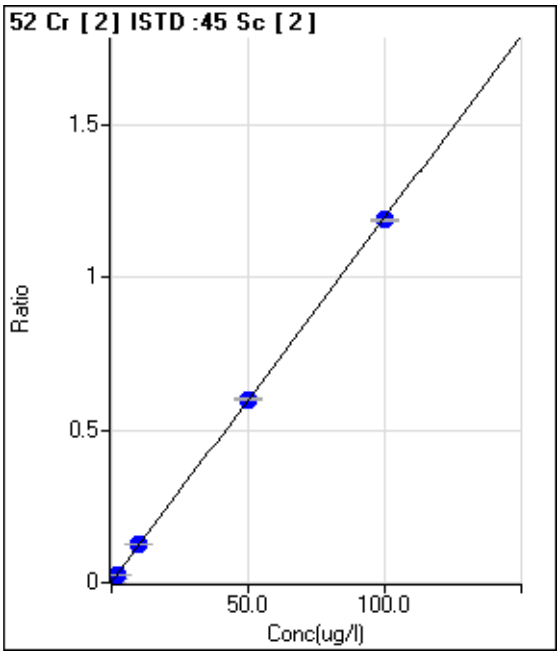
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.003	65.56	0.0005	P	16.3
2	☐	1.000	1.049	1390.11	0.0107	P	3.9
3	☐	2.000	2.077	2681.43	0.0207	P	4.0
4	☐	10.000	10.081	12838.90	0.0984	P	1.6
5	☐	50.000	49.444	62938.71	0.4804	P	1.7
6	☐	100.000	99.814	129368.53	0.9693	P	0.7

y = 0.0097 * x + 5.2966E-004
R = 1.0000
DL = 0.02538
BEC = 0.05457

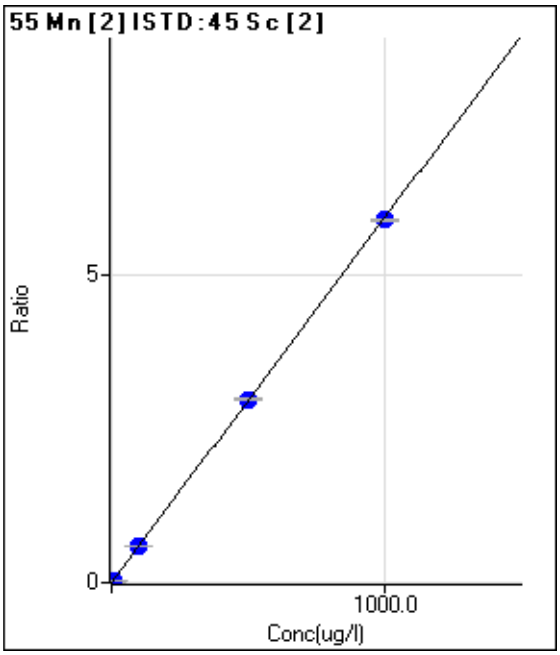
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.006	285.57	0.0022	P	6.1
2	☐	1.000	1.023	1873.50	0.0144	P	1.9
3	☐	2.000	2.034	3431.59	0.0265	P	3.3
4	☐	10.000	10.342	16366.65	0.1254	P	2.7
5	☐	50.000	50.223	78660.00	0.6004	P	1.1
6	☐	100.000	99.458	158382.91	1.1867	P	0.6

y = 0.0119 * x + 0.0023
R = 1.0000
DL = 0.03338
BEC = 0.19

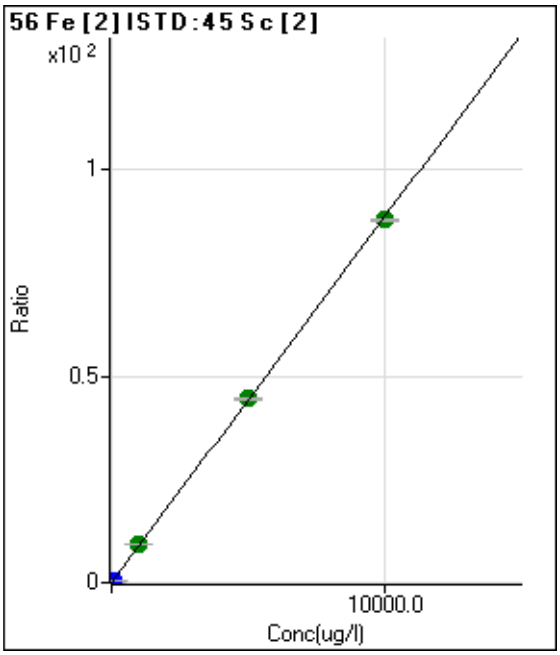
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.002	11.11	0.0001	P	74.6
2	☐	2.000	2.036	1579.01	0.0122	P	8.9
3	☐	4.000	4.319	3332.70	0.0257	P	4.4
4	☐	100.000	101.845	78874.13	0.6043	P	1.2
5	☐	500.000	503.044	391058.94	2.9846	P	0.8
6	☐	1000.000	994.861	787792.57	5.9025	P	0.6

y = 0.0059 * x + 9.4099E-005
R = 1.0000
DL = 0.03198
BEC = 0.01586

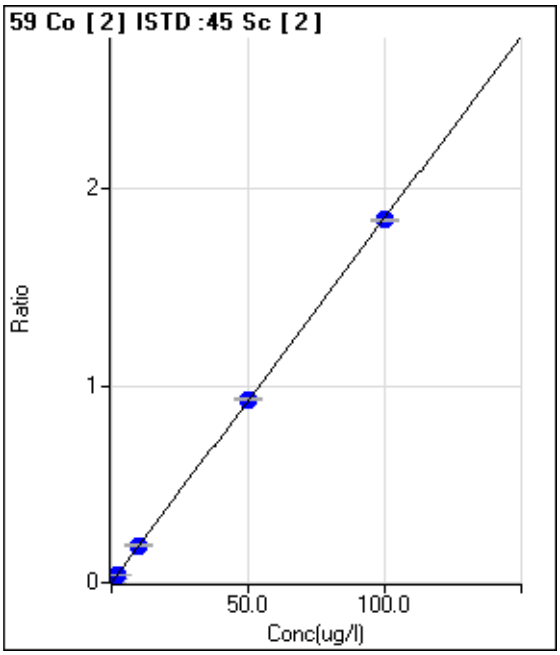
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.288	2133.53	0.0163	P	2.2
2	☐	30.000	31.819	38957.59	0.3003	P	0.8
3	☐	60.000	64.296	76133.81	0.5875	P	0.4
4	☐	1000.000	1040.776	1203669.47	9.2236	A	1.0
5	☐	5000.000	5030.296	5831529.36	44.5075	A	1.1
6	☐	10000.000	9925.851	11719248.02	87.8044	A	0.9

y = 0.0088 * x + 0.0189
R = 1.0000
DL = 0.1238
BEC = 2.135

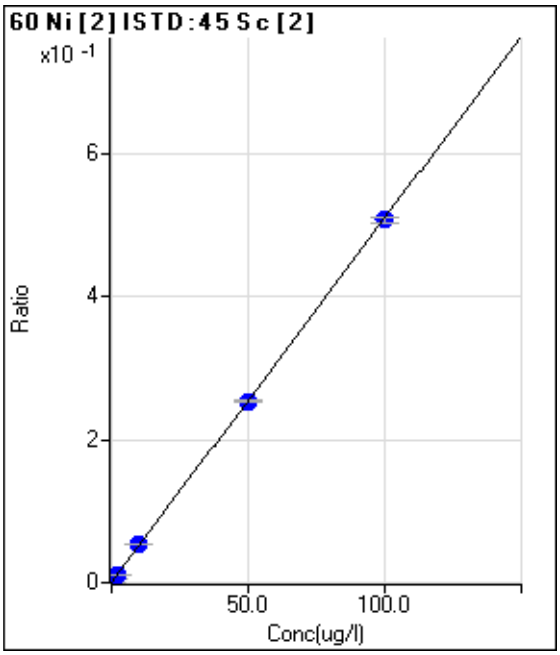
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.002	48.89	0.0004	P	28.4
2	☐	1.000	1.004	2461.39	0.0190	P	4.0
3	☐	2.000	2.202	5328.85	0.0411	P	3.2
4	☐	10.000	10.257	24795.75	0.1900	P	1.2
5	☐	50.000	50.261	121778.66	0.9295	P	1.5
6	☐	100.000	99.581	245744.50	1.8412	P	0.4

y = 0.0185 * x + 4.1007E-004
R = 1.0000
DL = 0.01726
BEC = 0.02218

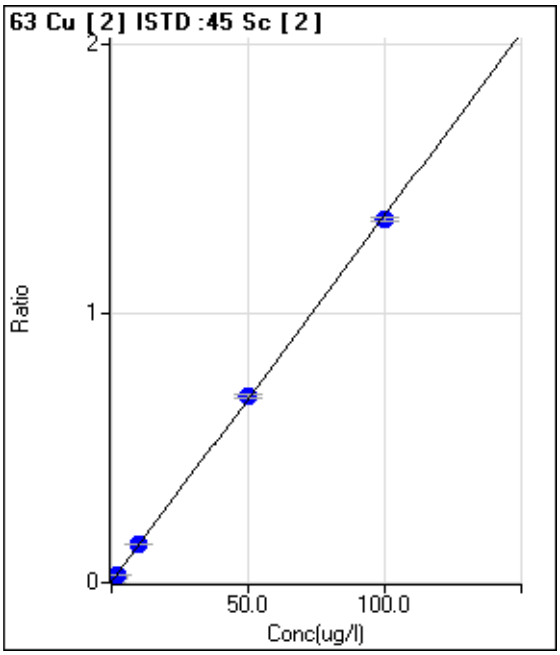
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.001	51.11	0.0004	P	9.7
2	☐	1.000	1.051	745.60	0.0057	P	6.2
3	☐	2.000	1.983	1360.11	0.0105	P	3.3
4	☐	10.000	10.594	7092.92	0.0544	P	2.9
5	☐	50.000	49.764	33261.36	0.2538	P	1.1
6	☐	100.000	99.589	67753.10	0.5076	P	1.3

y = 0.0051 * x + 3.9460E-004
R = 1.0000
DL = 0.02245
BEC = 0.07748

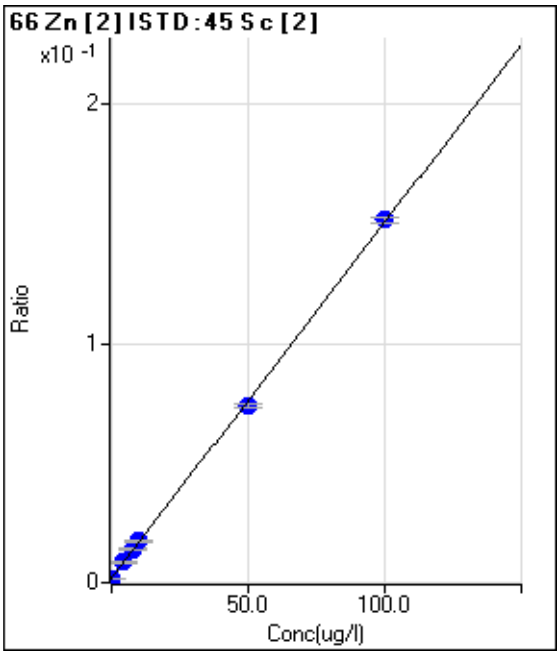
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.025	360.02	0.0028	P	2.4
2	☐	1.000	1.049	2255.81	0.0174	P	6.3
3	☐	2.000	2.102	4111.77	0.0317	P	0.8
4	☐	10.000	10.411	18912.96	0.1449	P	1.1
5	☐	50.000	50.652	90822.16	0.6932	P	1.8
6	☐	100.000	98.858	180168.70	1.3499	P	1.0

y = 0.0136 * x + 0.0031
R = 0.9999
DL = 0.01432
BEC = 0.227

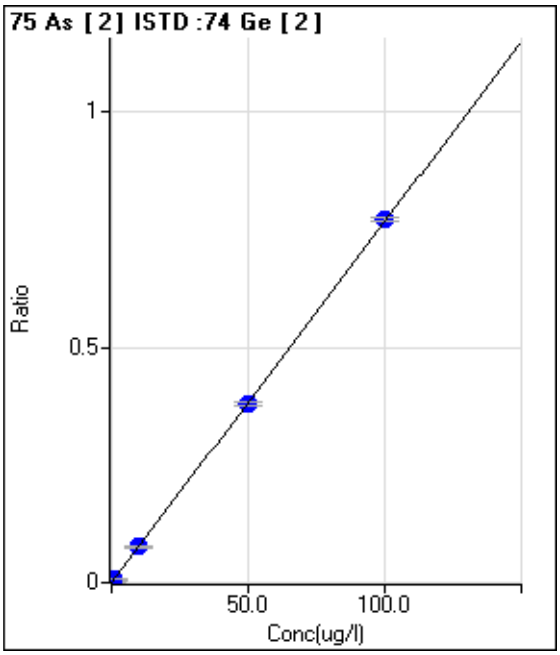
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.111	225.56	0.0017	P	15.6
2	☐	4.000	4.429	1100.07	0.0085	P	1.6
3	☐	8.000	8.052	1796.82	0.0139	P	3.7
4	☐	10.000	10.431	2270.23	0.0174	P	4.9
5	☐	50.000	48.544	9704.42	0.0741	P	2.0
6	☐	100.000	100.764	20248.08	0.1517	P	1.5

y = 0.0015 * x + 0.0019
R = 0.9998
DL = 0.5425
BEC = 1.274

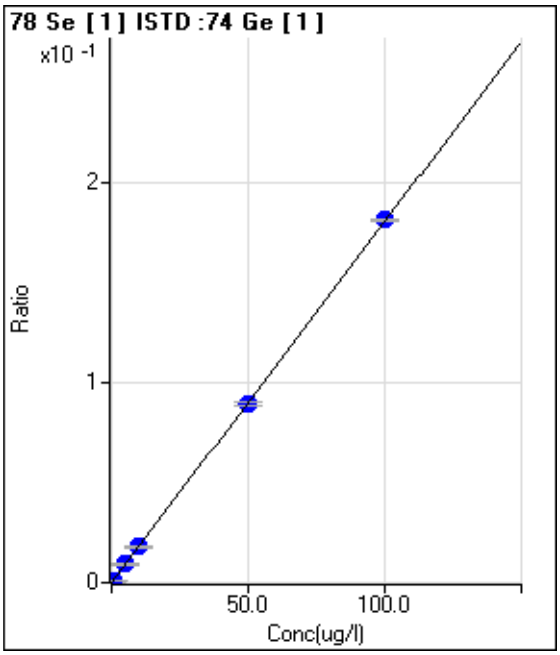
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.001	5.00	0.0003	P	58.2
2	☐	0.500	0.517	70.00	0.0043	P	5.5
3	☐	1.000	1.026	134.45	0.0082	P	7.3
4	☐	10.000	9.879	1268.96	0.0759	P	3.2
5	☐	50.000	49.481	6248.57	0.3791	P	2.8
6	☐	100.000	100.610	13121.79	0.7704	P	1.2

y = 0.0077 * x + 3.1188E-004
R = 1.0000
DL = 0.06854
BEC = 0.04075

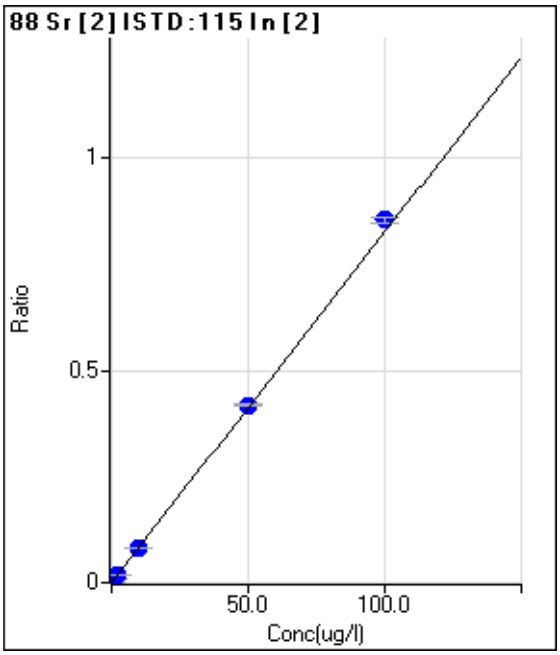
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.003	4.67	0.0001	P	7.2
2	☐	0.500	0.539	59.56	0.0011	P	2.2
3	☐	5.000	5.076	528.01	0.0092	P	5.9
4	☐	10.000	9.893	1044.93	0.0179	P	2.4
5	☐	50.000	49.461	5039.05	0.0892	P	2.4
6	☐	100.000	100.548	10321.65	0.1813	P	0.6

y = 0.0018 * x + 8.7207E-005
R = 1.0000
DL = 0.009773
BEC = 0.04838

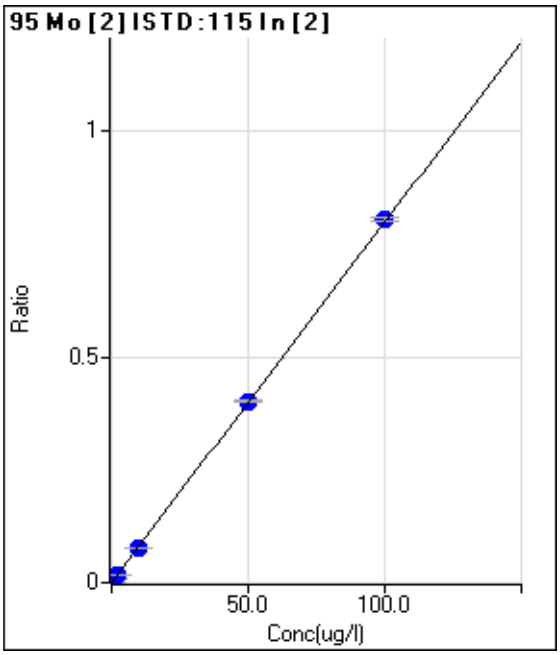
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.002	10.00	0.0001	P	66.1
2	☐	1.000	0.958	724.49	0.0080	P	5.3
3	☐	2.000	2.012	1519.02	0.0167	P	8.9
4	☐	10.000	9.730	7369.76	0.0804	P	1.3
5	☐	50.000	50.586	37241.26	0.4175	P	1.4
6	☐	100.000	103.574	76744.18	0.8546	P	1.6

y = 0.0083 * x + 9.0728E-005
R = 0.9999
DL = 0.02663
BEC = 0.011

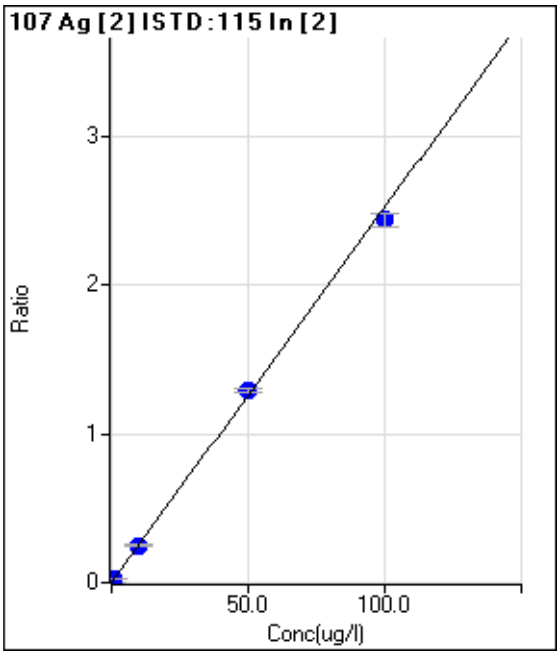
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.001	27.78	0.0003	P	19.5
2	☐	1.000	0.969	727.82	0.0080	P	14.1
3	☐	2.000	2.005	1481.23	0.0163	P	4.1
4	☐	10.000	9.728	7139.66	0.0779	P	1.6
5	☐	50.000	50.398	35869.28	0.4021	P	1.4
6	☐	100.000	100.692	72105.06	0.8030	P	1.0

y = 0.0080 * x + 3.0385E-004
R = 1.0000
DL = 0.02268
BEC = 0.03812

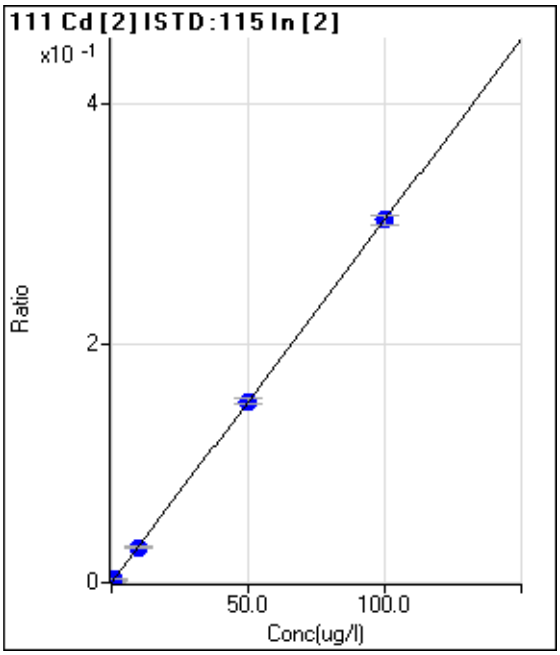
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.001	101.12	0.0011	P	7.4
2	☐	1.000	1.037	2469.17	0.0272	P	6.2
3	☐	1.000	1.071	2555.85	0.0281	P	3.3
4	☐	10.000	9.954	23077.99	0.2517	P	0.6
5	☐	50.000	51.361	115415.37	1.2938	P	1.8
6	☐	100.000	96.734	218749.34	2.4357	P	3.6

y = 0.0252 * x + 0.0011
R = 0.9996
DL = 0.009906
BEC = 0.04511

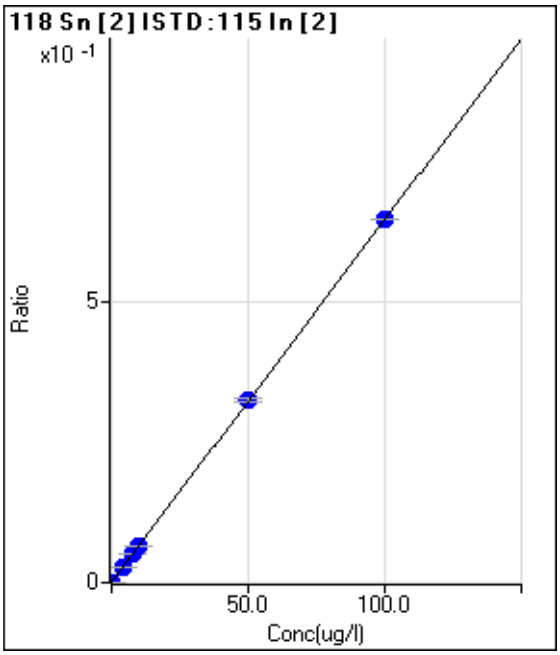
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.002	3.33	0.0000	P	100.7
2	☐	0.500	0.564	158.90	0.0018	P	17.1
3	☐	1.000	1.120	312.24	0.0034	P	9.4
4	☐	10.000	9.746	2709.23	0.0295	P	3.9
5	☐	50.000	49.985	13500.87	0.1513	P	2.7
6	☐	100.000	100.115	27217.35	0.3031	P	2.5

y = 0.0030 * x + 4.4360E-005
R = 1.0000
DL = 0.03714
BEC = 0.01466

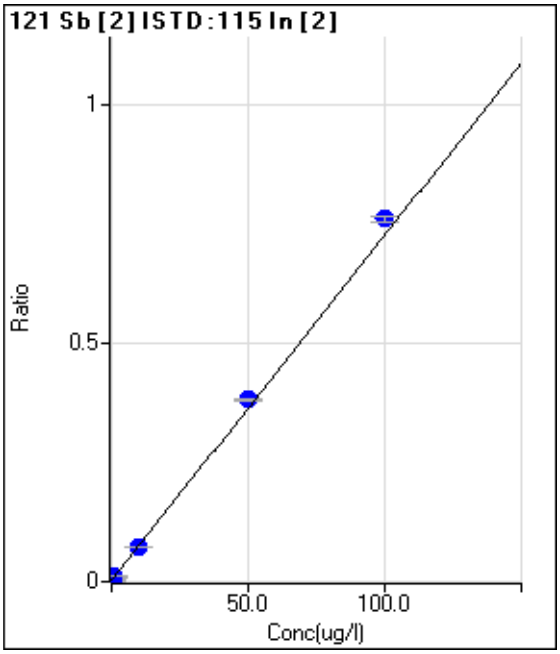
Weight: 1/y
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.007	56.67	0.0006	P	20.2
2	☐	4.000	4.099	2445.83	0.0270	P	1.8
3	☐	8.000	7.948	4712.00	0.0518	P	2.9
4	☐	10.000	9.768	5825.75	0.0635	P	0.8
5	☐	50.000	50.174	28897.27	0.3239	P	2.1
6	☐	100.000	100.036	57941.50	0.6452	P	0.1

y = 0.0064 * x + 5.8022E-004
R = 1.0000
DL = 0.05913
BEC = 0.09004

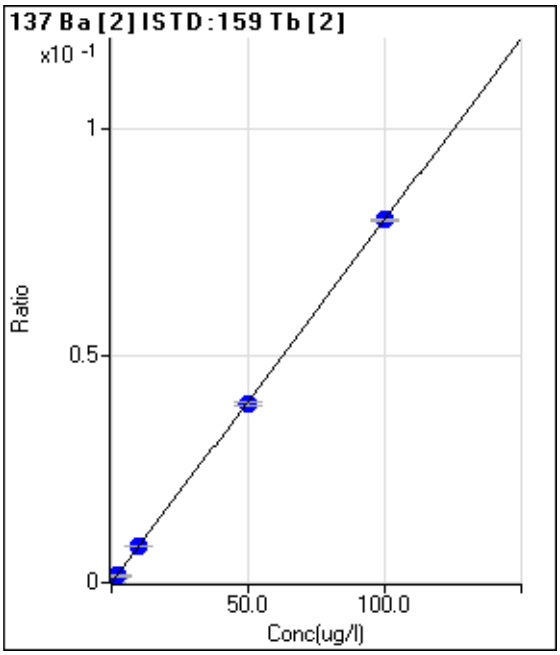
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.085	195.56	0.0022	P	19.4
2	☐	0.500	0.695	706.71	0.0078	P	7.9
3	☐	1.000	1.247	1071.19	0.0118	P	4.5
4	☐	10.000	9.904	6808.41	0.0742	P	0.4
5	☐	50.000	52.431	33997.90	0.3811	P	1.3
6	☐	100.000	104.854	68184.17	0.7594	P	1.4

y = 0.0072 * x + 0.0028
R = 1.0000
DL = 0.175
BEC = 0.3853

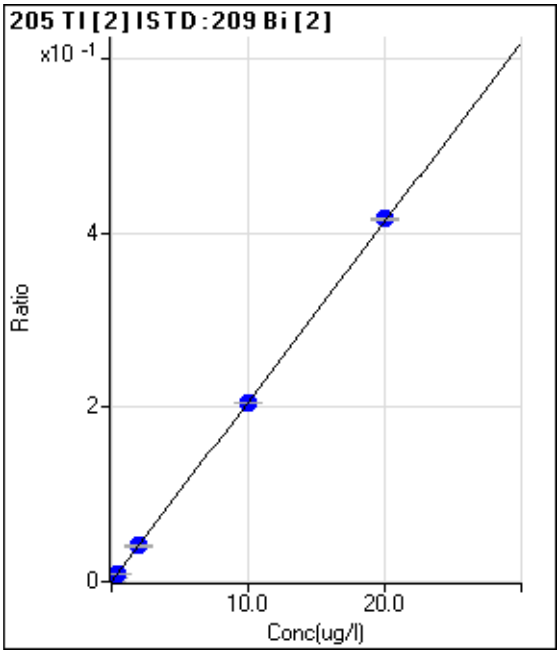
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.001	6.67	0.0000	P	49.6
2	☐	1.000	1.134	313.35	0.0009	P	9.7
3	☐	2.000	1.864	507.80	0.0015	P	13.9
4	☐	10.000	10.122	2754.80	0.0081	P	3.3
5	☐	50.000	49.519	13341.92	0.0395	P	2.0
6	☐	100.000	100.019	27113.13	0.0798	P	0.5

y = 7.9758E-004 * x + 2.0822E-005
R = 1.0000
DL = 0.03675
BEC = 0.02611

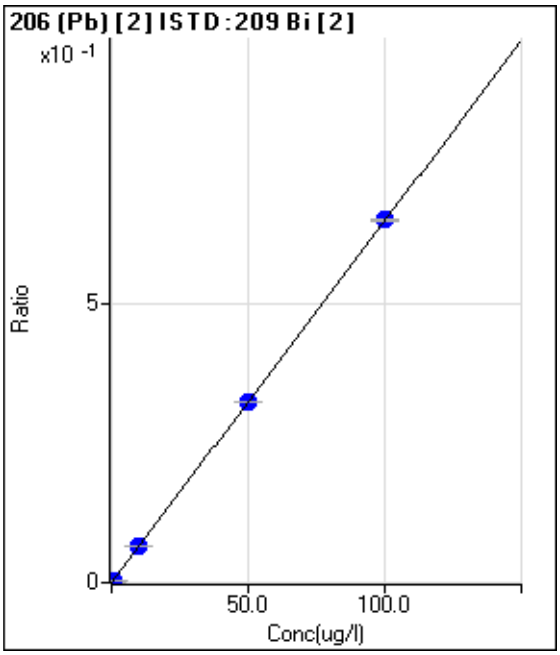
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.002	93.34	0.0003	P	26.6
2	☐	0.200	0.198	1240.10	0.0044	P	6.8
3	☐	0.400	0.405	2455.85	0.0086	P	3.9
4	☐	2.000	1.971	11658.46	0.0409	P	0.7
5	☐	10.000	9.937	56480.47	0.2053	P	0.9
6	☐	20.000	20.183	113896.65	0.4167	P	0.5

y = 0.0206 * x + 2.8160E-004
R = 1.0000
DL = 0.01262
BEC = 0.01365

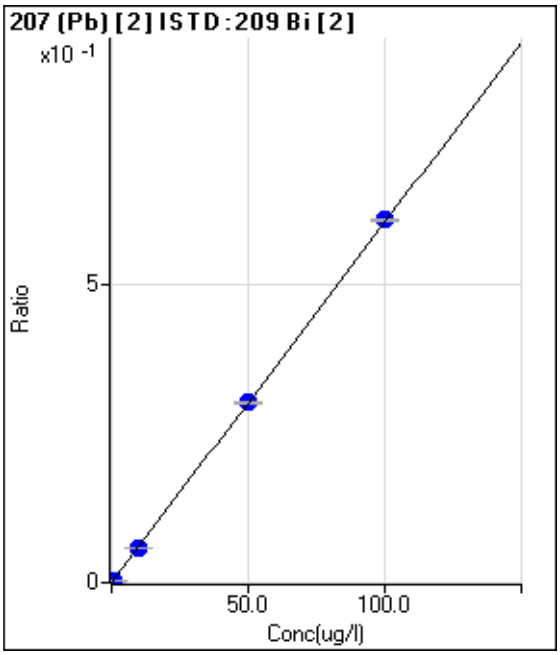
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.001	38.89	0.0001	P	32.6
2	☐	0.300	0.312	616.70	0.0022	P	5.6
3	☐	0.600	0.599	1146.75	0.0040	P	4.7
4	☐	10.000	9.944	18429.14	0.0647	P	0.9
5	☐	50.000	49.986	89343.29	0.3247	P	0.3
6	☐	100.000	100.377	178221.28	0.6520	P	0.7

y = 0.0065 * x + 1.4395E-004
R = 1.0000
DL = 0.02045
BEC = 0.02217

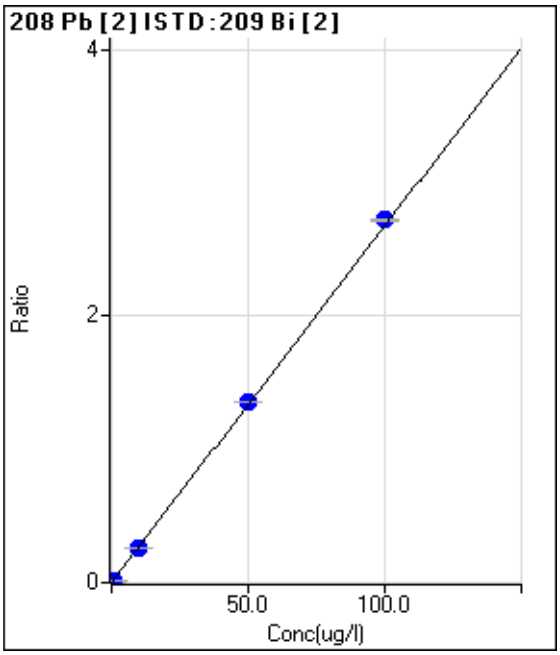
Weight: 1/SD^2
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.003	42.22	0.0001	P	30.1
2	☐	0.300	0.281	528.91	0.0019	P	9.2
3	☐	0.600	0.624	1116.75	0.0039	P	2.2
4	☐	10.000	9.678	16653.59	0.0585	P	1.0
5	☐	50.000	50.043	83003.79	0.3017	P	0.5
6	☐	100.000	100.816	166104.06	0.6076	P	0.5

y = 0.0060 * x + 1.6834E-004
R = 1.0000
DL = 0.02213
BEC = 0.02794

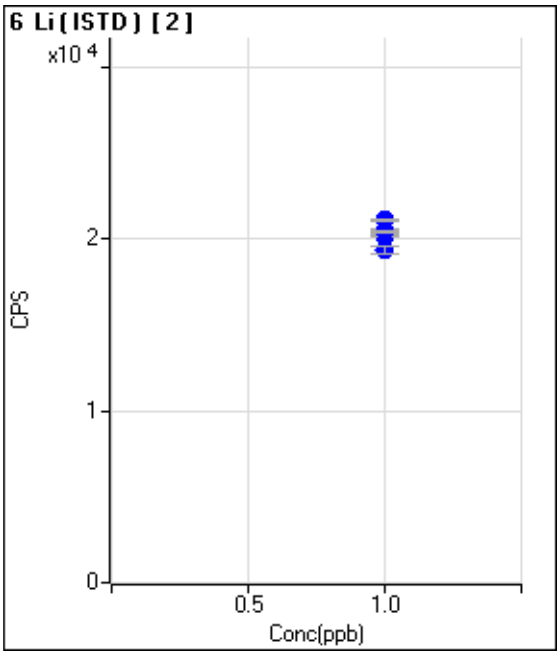
Weight: 1/SD^2
Min Conc: <None>



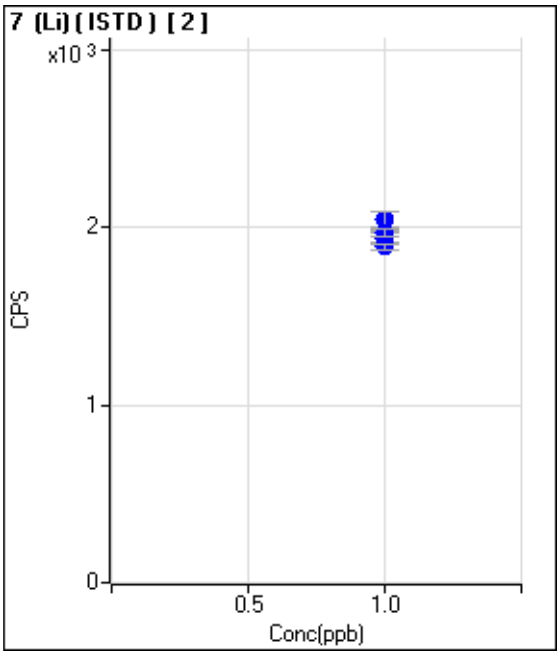
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.01	0.0006	P	9.3
2	☐	0.300	0.299	2442.39	0.0086	P	1.7
3	☐	0.600	0.605	4774.92	0.0168	P	0.8
4	☐	10.000	9.928	75795.00	0.2662	P	0.2
5	☐	50.000	50.695	373260.12	1.3567	P	0.4
6	☐	100.000	101.811	744671.37	2.7242	P	0.5

y = 0.0268 * x + 6.0017E-004
R = 1.0000
DL = 0.006194
BEC = 0.02244

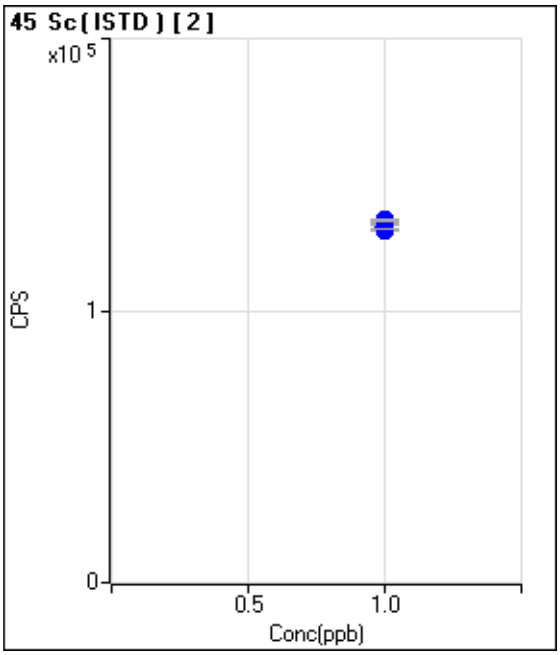
Weight: 1/SD^2
Min Conc: <None>



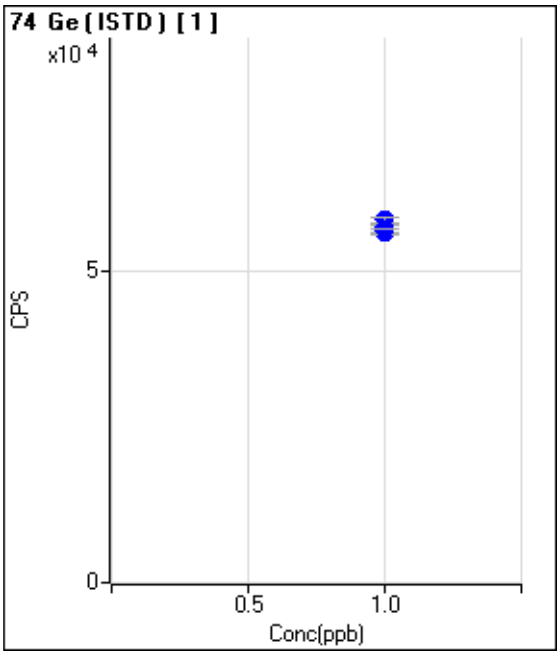
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		21134.54		P	0.6
2	☐	1.000		20194.41		P	0.8
3	☐	1.000		20178.75		P	0.7
4	☐	1.000		20551.32		P	1.1
5	☐	1.000		19334.59		P	2.4
6	☐	1.000		20448.56		P	0.8



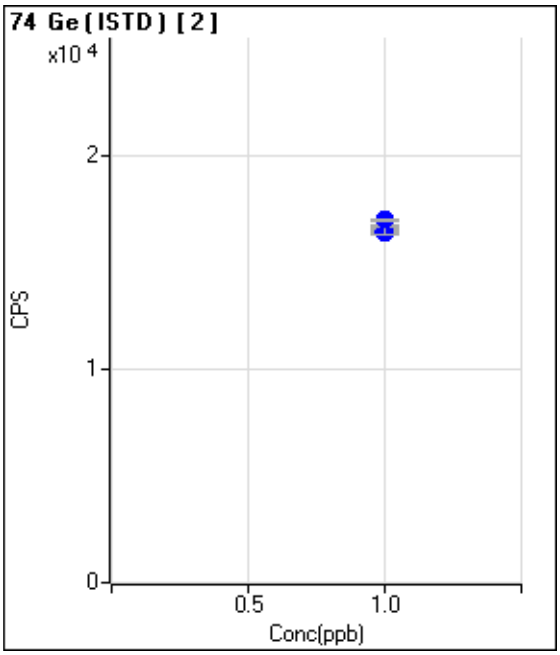
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2043.49		P	4.2
2	☐	1.000		1968.49		P	1.6
3	☐	1.000		1940.70		P	3.2
4	☐	1.000		1946.25		P	3.4
5	☐	1.000		1891.25		P	1.5
6	☐	1.000		1972.37		P	2.0



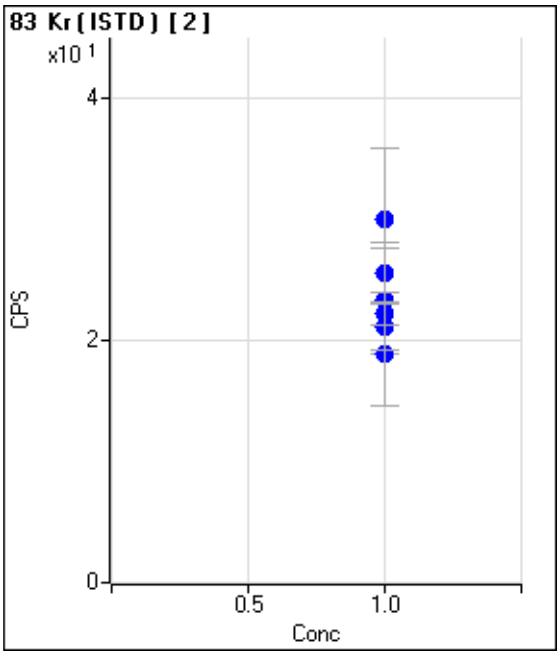
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		130617.65		P	1.1
2	☐	1.000		129737.31		P	0.5
3	☐	1.000		129586.18		P	0.6
4	☐	1.000		130504.24		P	1.3
5	☐	1.000		131036.10		P	1.5
6	☐	1.000		133470.15		P	0.7



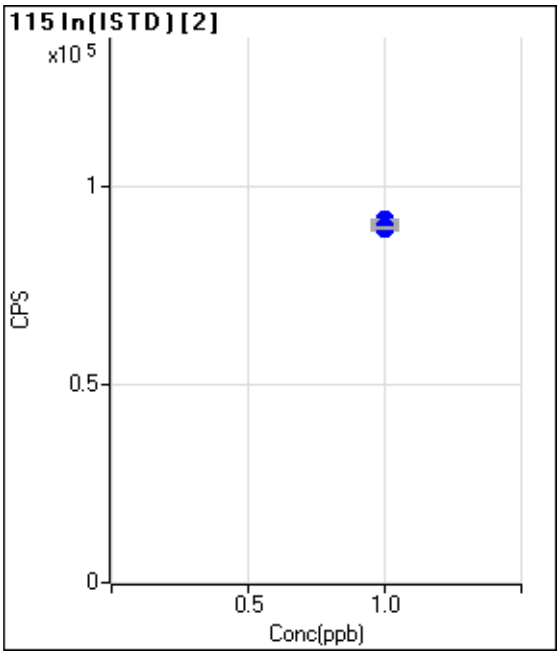
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		56991.64		P	0.0
2	☐	1.000		56251.71		P	0.1
3	☐	1.000		57181.81		P	1.1
4	☐	1.000		58324.36		P	1.4
5	☐	1.000		56477.69		P	1.7
6	☐	1.000		56920.79		P	0.4



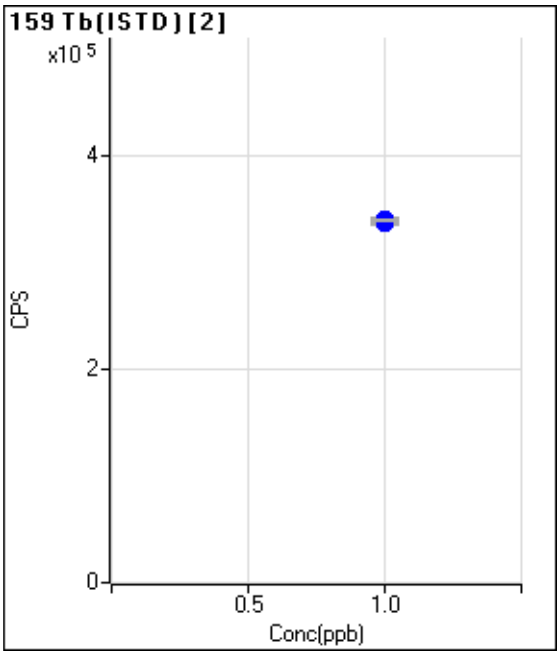
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16731.93		P	1.2
2	☐	1.000		16393.25		P	0.8
3	☐	1.000		16457.75		P	1.0
4	☐	1.000		16714.68		P	1.2
5	☐	1.000		16490.56		P	2.1
6	☐	1.000		17031.13		P	0.6



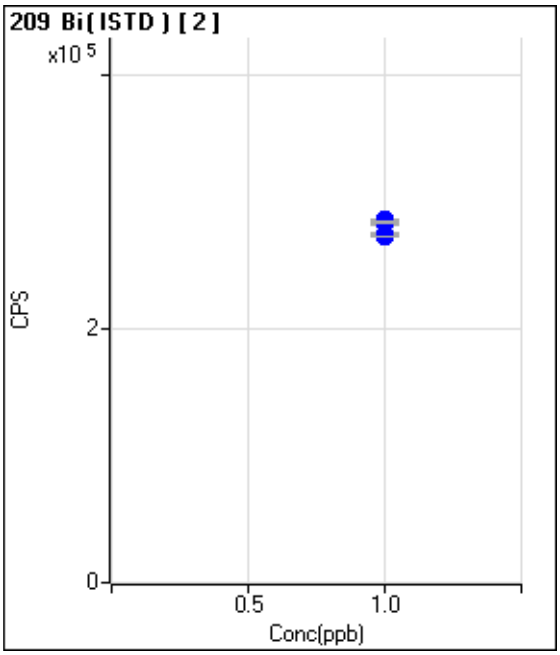
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		23.33		P	37.8
2	☐	1.000		18.89		P	44.4
3	☐	1.000		21.11		P	18.2
4	☐	1.000		22.22		P	8.7
5	☐	1.000		25.56		P	19.9
6	☐	1.000		30.00		P	40.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		90201.24		P	1.2
2	☐	1.000		90604.22		P	0.7
3	☐	1.000		90972.59		P	0.6
4	☐	1.000		91702.51		P	0.3
5	☐	1.000		89216.52		P	1.0
6	☐	1.000		89797.51		P	0.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		337743.23		P	0.5
2	☐	1.000		338600.46		P	0.7
3	☐	1.000		336752.50		P	0.9
4	☐	1.000		340418.99		P	1.1
5	☐	1.000		337638.57		P	0.3
6	☐	1.000		339787.50		P	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		286348.60		P	0.4
2	☐	1.000		284198.05		P	1.3
3	☐	1.000		284302.83		P	0.6
4	☐	1.000		284753.96		P	0.3
5	☐	1.000		275118.72		P	0.4
6	☐	1.000		273360.01		P	0.1

Sample Report

Sample Name	**scan**
Data File Name	**001SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T14:54:14-05:00**
Type	**Sample**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

Sample Report

Sample Name	**Rn Chk**
Data File Name	**002SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T14:57:32-05:00**
Type	**Sample**
VialNumber	**2**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

Sample Report

Sample Name	**Rn Chk**
Data File Name	**003SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:00:56-05:00**
Type	**Sample**
VialNumber	**2**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

Calibration Blank Report

Sample Name	**ICIS Cal Blank**
Data File Name	**004CALB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:04:17-05:00**
Type	**CalBlk**
VialNumber	**1101**
Dilution	**1**
Comment	
Operator	

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Se	78	74	1	5	7.18
Pb	208	209	2	170	8.99
Tl	205	209	2	93	26.96
Ba	137	159	2	7	50.03
Sb	121	115	2	196	19.98
Sn	118	115	2	57	21.20
Cd	111	115	2	3	100.05
Ag	107	115	2	101	6.86
Mo	95	115	2	28	18.33
Sr	88	115	2	10	66.70
As	75	74	2	5	57.70
Zn	66	45	2	226	14.58
Cu	63	45	2	360	2.78
Ni	60	45	2	51	9.96
Co	59	45	2	49	27.56
Fe	56	45	2	2134	2.89
Mn	55	45	2	11	75.52
Cr	52	45	2	286	7.13
V	51	45	2	66	15.53
Ti	47	45	2	3	69.16
Ca	44	45	2	180	10.52
K	39	45	2	20138	10.47
Al	27	45	2	64	9.79
Mg	24	45	2	159	9.91
Na	23	45	2	33901	0.93
B	11	6	2	639	4.58
Be	9	6	2	5	18.95

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Ge	74	1	56992	0.01
Bi	209	2	286349	0.38
Tb	159	2	337743	0.54
In	115	2	90201	1.17
Kr	83	2	23	37.81
Ge	74	2	16732	1.22
Sc	45	2	130618	1.13
Li	6	2	21135	0.56

Calibration Standard Report

Sample Name	**CAL1 5806481**
Data File Name	**005CALS.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:07:39-05:00**
Type	**CalStd**
VialNumber	**1102**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	6	2	22	10.78
B	11	6	2	804	3.32
Na	23	45	2	56334	0.83
Mg	24	45	2	10712	1.48
Al	27	45	2	839	4.67
K	39	45	2	26898	8.36
Ca	44	45	2	614	4.57
Ti	47	45	2	46	17.83
V	51	45	2	1390	4.38
Cr	52	45	2	1874	1.39
Mn	55	45	2	1579	8.49
Fe	56	45	2	38958	0.31
Co	59	45	2	2461	4.43
Ni	60	45	2	746	6.36
Cu	63	45	2	2256	6.69
Zn	66	45	2	1100	1.09
As	75	74	2	70	6.30
Se	78	74	1	60	2.12
Sr	88	115	2	724	5.93
Mo	95	115	2	728	14.24
Ag	107	115	2	2469	6.88
Cd	111	115	2	159	17.47
Sn	118	115	2	2446	2.52
Sb	121	115	2	707	8.58
Ba	137	159	2	313	10.26
Tl	205	209	2	1240	7.05
(Pb)	206	209	2	617	4.86
(Pb)	207	209	2	529	8.74
Pb	208	209	2	2442	0.62

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Li	6	2	20194	0.78	21135	95.6	60	120	
Sc	45	2	129737	0.54	130618	99.3	60	120	
Ge	74	1	56252	0.12	56992	98.7	60	120	
Ge	74	2	16393	0.78	16732	98.0	60	120	
Kr	83	2	19	44.42	23	81.0	-1000	1000	
In	115	2	90604	0.74	90201	100.4	60	120	
Tb	159	2	338600	0.72	337743	100.3	60	120	
Bi	209	2	284198	1.31	286349	99.2	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Calibration Standard Report

Sample Name	**CAL2 5806483**
Data File Name	**006CALS.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:10:59-05:00**
Type	**CalStd**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	6	2	40	6.75
B	11	6	2	1486	2.01
Na	23	45	2	78252	0.89
Mg	24	45	2	21982	2.17
Al	27	45	2	1635	2.82
K	39	45	2	34608	6.73
Ca	44	45	2	843	5.26
Ti	47	45	2	66	21.17
V	51	45	2	2681	4.38
Cr	52	45	2	3432	3.60
Mn	55	45	2	3333	4.42
Fe	56	45	2	76134	0.30
Co	59	45	2	5329	3.54
Ni	60	45	2	1360	3.19
Cu	63	45	2	4112	0.12
Zn	66	45	2	1797	3.83
As	75	74	2	134	8.26
Se	78	74	1	528	4.87
Sr	88	115	2	1519	9.46
Mo	95	115	2	1481	3.62
Ag	107	115	2	2556	2.79
Cd	111	115	2	312	9.08
Sn	118	115	2	4712	2.69
Sb	121	115	2	1071	4.22
Ba	137	159	2	508	14.15
Tl	205	209	2	2456	3.85
(Pb)	206	209	2	1147	4.57
(Pb)	207	209	2	1117	2.15
Pb	208	209	2	4775	1.34

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Li	6	2	20179	0.69	21135	95.5	60	120	
Sc	45	2	129586	0.64	130618	99.2	60	120	
Ge	74	1	57182	1.14	56992	100.3	60	120	
Ge	74	2	16458	1.02	16732	98.4	60	120	
Kr	83	2	21	18.21	23	90.5	-1000	1000	
In	115	2	90973	0.64	90201	100.9	60	120	
Tb	159	2	336753	0.95	337743	99.7	60	120	
Bi	209	2	284303	0.58	286349	99.3	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Calibration Standard Report

Sample Name	**CAL3 5806485**
Data File Name	**007CALS.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:14:21-05:00**
Type	**CalStd**
VialNumber	**1104**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	6	2	937	1.55
B	11	6	2	1073	2.87
Na	23	45	2	464915	1.19
Mg	24	45	2	213057	1.79
Al	27	45	2	7865	2.55
K	39	45	2	160209	0.68
Ca	44	45	2	6602	1.14
Ti	47	45	2	421	8.40
V	51	45	2	12839	2.63
Cr	52	45	2	16367	2.42
Mn	55	45	2	78874	2.42
Fe	56	45	2	1203669	1.10
Co	59	45	2	24796	1.04
Ni	60	45	2	7093	3.13
Cu	63	45	2	18913	0.70
Zn	66	45	2	2270	3.69
As	75	74	2	1269	2.65
Se	78	74	1	1045	1.20
Sr	88	115	2	7370	1.29
Mo	95	115	2	7140	1.78
Ag	107	115	2	23078	0.88
Cd	111	115	2	2709	3.71
Sn	118	115	2	5826	0.99
Sb	121	115	2	6808	0.64
Ba	137	159	2	2755	2.34
Tl	205	209	2	11658	0.50
(Pb)	206	209	2	18429	1.10
(Pb)	207	209	2	16654	1.18
Pb	208	209	2	75795	0.26

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Li	6	2	20551	1.13	21135	97.2	60	120	
Sc	45	2	130504	1.26	130618	99.9	60	120	
Ge	74	1	58324	1.35	56992	102.3	60	120	
Ge	74	2	16715	1.20	16732	99.9	60	120	
Kr	83	2	22	8.65	23	95.2	-1000	1000	
In	115	2	91703	0.30	90201	101.7	60	120	
Tb	159	2	340419	1.12	337743	100.8	60	120	
Bi	209	2	284754	0.25	286349	99.4	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Calibration Standard Report

Sample Name	**CAL4 5806487**
Data File Name	**008CALS.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:17:40-05:00**
Type	**CalStd**
VialNumber	**1105**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	6	2	4624	0.44
B	11	6	2	2830	1.33
Na	23	45	2	2289902	1.74
Mg	24	45	2	1083915	1.38
Al	27	45	2	38987	1.38
K	39	45	2	724326	0.48
Ca	44	45	2	32578	1.26
Ti	47	45	2	1988	2.19
V	51	45	2	62939	0.20
Cr	52	45	2	78660	0.69
Mn	55	45	2	391059	0.77
Fe	56	45	2	5831529	0.72
Co	59	45	2	121779	0.40
Ni	60	45	2	33261	1.43
Cu	63	45	2	90822	1.49
Zn	66	45	2	9704	1.21
As	75	74	2	6249	1.00
Se	78	74	1	5039	0.94
Sr	88	115	2	37241	0.45
Mo	95	115	2	35869	1.01
Ag	107	115	2	115415	1.01
Cd	111	115	2	13501	2.13
Sn	118	115	2	28897	1.95
Sb	121	115	2	33998	0.69
Ba	137	159	2	13342	1.81
Tl	205	209	2	56480	0.95
(Pb)	206	209	2	89343	0.66
(Pb)	207	209	2	83004	0.31
Pb	208	209	2	373260	0.12

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Li	6	2	19335	2.41	21135	91.5	60	120	
Sc	45	2	131036	1.48	130618	100.3	60	120	
Ge	74	1	56478	1.67	56992	99.1	60	120	
Ge	74	2	16491	2.07	16732	98.6	60	120	
Kr	83	2	26	19.92	23	109.5	-1000	1000	
In	115	2	89217	0.97	90201	98.9	60	120	
Tb	159	2	337639	0.33	337743	100.0	60	120	
Bi	209	2	275119	0.39	286349	96.1	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Calibration Standard Report

Sample Name	**CAL5 5806489**
Data File Name	**009CALS.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:20:58-05:00**
Type	**CalStd**
VialNumber	**1106**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	6	2	9584	0.49
B	11	6	2	5098	0.93
Na	23	45	2	4497909	0.97
Mg	24	45	2	2180410	0.98
Al	27	45	2	79209	1.65
K	39	45	2	1457125	0.88
Ca	44	45	2	66340	1.69
Ti	47	45	2	4190	5.06
V	51	45	2	129369	1.23
Cr	52	45	2	158383	0.65
Mn	55	45	2	787793	0.76
Fe	56	45	2	11719248	1.12
Co	59	45	2	245745	0.92
Ni	60	45	2	67753	1.82
Cu	63	45	2	180169	0.37
Zn	66	45	2	20248	1.22
As	75	74	2	13122	1.79
Se	78	74	1	10322	0.29
Sr	88	115	2	76744	1.64
Mo	95	115	2	72105	0.48
Ag	107	115	2	218749	4.15
Cd	111	115	2	27217	2.76
Sn	118	115	2	57942	0.75
Sb	121	115	2	68184	0.96
Ba	137	159	2	27113	0.78
Tl	205	209	2	113897	0.56
(Pb)	206	209	2	178221	0.57
(Pb)	207	209	2	166104	0.42
Pb	208	209	2	744671	0.39

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Li	6	2	20449	0.79	21135	96.8	60	120	
Sc	45	2	133470	0.74	130618	102.2	60	120	
Ge	74	1	56921	0.35	56992	99.9	60	120	
Ge	74	2	17031	0.58	16732	101.8	60	120	
Kr	83	2	30	40.05	23	128.6	-1000	1000	
In	115	2	89798	0.77	90201	99.6	60	120	
Tb	159	2	339787	0.37	337743	100.6	60	120	
Bi	209	2	273360	0.13	286349	95.5	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Initial Calibration Verification (ICV) - US EPA Method 6020

Sample Name	**ICV 5736476**
Data File Name	**010_ICV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:24:14-05:00**
Type	**6-ICV**
VialNumber	**1201**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	ExpectedValue	%Recovery	%QC Low	%QC High	QC Flag
Se	78	74	1	39.19	ug/l	40	98.0	90	110	
Pb	208	209	2	40.32	ug/l	40	100.8	90	110	
Tl	205	209	2	7.85	ug/l	8	98.1	90	110	
Ba	137	159	2	40.40	ug/l	40	101.0	90	110	
Sb	121	115	2	42.48	ug/l	40	106.2	90	110	
Sn	118	115	2	40.20	ug/l	40	100.5	90	110	
Cd	111	115	2	38.59	ug/l	40	96.5	90	110	
Ag	107	115	2	41.32	ug/l	40	103.3	90	110	
Mo	95	115	2	40.46	ug/l	40	101.1	90	110	
Sr	88	115	2	40.71	ug/l	40	101.8	90	110	
As	75	74	2	39.76	ug/l	40	99.4	90	110	
Zn	66	45	2	38.14	ug/l	40	95.4	90	110	
Cu	63	45	2	40.36	ug/l	40	100.9	90	110	
Ni	60	45	2	40.05	ug/l	40	100.1	90	110	
Co	59	45	2	40.43	ug/l	40	101.1	90	110	
Fe	56	45	2	4072.22	ug/l	4000	101.8	90	110	
Mn	55	45	2	402.69	ug/l	400	100.7	90	110	
Cr	52	45	2	39.79	ug/l	40	99.5	90	110	
V	51	45	2	39.96	ug/l	40	99.9	90	110	
Ti	47	45	2	42.31	ug/l	40	105.8	90	110	
Ca	44	45	2	3950.32	ug/l	4000	98.8	90	110	
K	39	45	2	4003.62	ug/l	4000	100.1	90	110	
Al	27	45	2	400.59	ug/l	400	100.1	90	110	
Mg	24	45	2	3937.59	ug/l	4000	98.4	90	110	
Na	23	45	2	4170.28	ug/l	4000	104.3	90	110	
B	11	6	2	85.12	ug/l	80	106.4	90	110	
Be	9	6	2	40.36	ug/l	40	100.9	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56451	0.72	56992	99.1	60	120	
Bi	209	2	277362	0.64	286349	96.9	60	120	
Tb	159	2	340568	0.32	337743	100.8	60	120	
In	115	2	90342	1.12	90201	100.2	60	120	
Kr	83	2	18	47.19	23	76.2	-1000	1000	
Ge	74	2	16846	0.95	16732	100.7	60	120	
Sc	45	2	132497	1.31	130618	101.4	60	120	
Li	6	2	19902	1.10	21135	94.2	60	120	

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**ICB**
Data File Name	**0116CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:27:34-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.01	-50.17	ug/l	3.00	19.27	0.2	
B	11	6	2	3.72	8.11	ug/l	630.58	1.07	20	
Na	23	45	2	-1.28	-69.24	ug/l	34279.03	1.19	50	
Mg	24	45	2	0.22	32.43	ug/l	210.01	6.92	50	
Al	27	45	2	-0.23	-69.25	ug/l	49.44	24.38	10	
K	39	45	2	4.59	437.02	ug/l	21263.75	12.82	50	
Ca	44	45	2	-7.10	-37.13	ug/l	170.56	9.84	50	
Ti	47	45	2	0.07	151.69	ug/l	5.56	75.46	1	
V	51	45	2	0.00	92.76	ug/l	75.56	6.74	1	
Cr	52	45	2	-0.04	-31.95	ug/l	242.23	7.58	1	
Mn	55	45	2	0.04	41.24	ug/l	41.11	28.48	2	
Fe	56	45	2	0.20	37.74	ug/l	2746.40	2.62	30	
Co	59	45	2	-0.01	-36.48	ug/l	35.55	19.51	1	
Ni	60	45	2	-0.04	-22.40	ug/l	26.67	21.65	1	
Cu	63	45	2	0.00	559.03	ug/l	412.24	2.47	1	
Zn	66	45	2	-0.42	-18.59	ug/l	167.78	8.96	4	
As	75	74	2	0.02	227.21	ug/l	7.78	75.22	0.5	
Se	78	74	1	0.03	48.06	ug/l	8.55	19.60	0.5	
Sr	88	115	2	0.01	96.55	ug/l	15.55	44.60	1	
Mo	95	115	2	0.03	37.22	ug/l	48.89	14.20	1	
Ag	107	115	2	0.08	32.43	ug/l	293.35	21.68	1	
Cd	111	115	2	0.01	129.00	ug/l	6.67	50.03	0.5	
Sn	118	115	2	-0.01	-446.17	ug/l	47.78	60.96	4	
Sb	121	115	2	-0.13	-41.42	ug/l	171.12	22.58	0.5	
Ba	137	159	2	0.06	11.93	ug/l	24.44	7.89	1	
Tl	205	209	2	0.01	103.53	ug/l	112.22	29.75	0.2	
Pb	208	209	2	0.00	329.56	ug/l	178.90	13.98	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20416	0.61	21135	96.6	60	120	
Sc	45	2	132855	0.70	130618	101.7	60	120	
Ge	74	1	58286	0.66	56992	102.3	60	120	
Ge	74	2	16722	0.82	16732	99.9	60	120	
Kr	83	2	24	31.49	23	104.8	-1000	1000	
In	115	2	92876	1.60	90201	103.0	60	120	
Tb	159	2	339442	0.70	337743	100.5	60	120	
Bi	209	2	285311	0.75	286349	99.6	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**ICVL 5806483**
Data File Name	**012LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:30:55-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.38	13.98	ug/l	39.56	12.10	0.4	95.6	70	130	
B	11	6	2	44.78	4.79	ug/l	1535.10	3.76	40	111.9	70	130	
Na	23	45	2	100.62	0.49	ug/l	79399.36	1.98	100	100.6	70	130	
Mg	24	45	2	102.92	1.92	ug/l	22517.41	2.10	100	102.9	70	130	
Al	27	45	2	20.75	6.97	ug/l	1703.45	5.69	20	103.8	70	130	
K	39	45	2	104.98	17.08	ug/l	35597.00	6.08	100	105.0	70	130	
Ca	44	45	2	102.36	4.07	ug/l	888.93	4.84	100	102.4	70	130	
Ti	47	45	2	2.32	20.22	ug/l	96.67	18.17	2	115.9	70	130	
V	51	45	2	2.10	3.64	ug/l	2772.55	2.68	2	104.8	70	130	
Cr	52	45	2	1.97	2.76	ug/l	3422.70	0.83	2	98.7	70	130	
Mn	55	45	2	4.32	2.13	ug/l	3416.04	1.62	4	108.0	70	130	
Fe	56	45	2	63.63	0.59	ug/l	77256.01	1.16	60	106.0	70	130	
Co	59	45	2	2.11	3.36	ug/l	5228.82	3.08	2	105.4	70	130	
Ni	60	45	2	2.03	2.14	ug/l	1429.00	3.11	2	101.7	70	130	
Cu	63	45	2	2.03	1.11	ug/l	4085.12	2.24	2	101.5	70	130	
Zn	66	45	2	7.72	3.58	ug/l	1775.71	2.24	8	96.5	70	130	
As	75	74	2	1.09	18.74	ug/l	143.34	18.05	1	108.9	70	130	
Se	78	74	1	4.87	1.44	ug/l	514.45	1.55	5	97.4	70	130	
Sr	88	115	2	2.06	4.84	ug/l	1571.24	5.27	2	102.9	70	130	
Mo	95	115	2	2.07	2.24	ug/l	1545.68	2.81	2	103.4	70	130	
Ag	107	115	2	1.12	7.15	ug/l	2695.88	7.05	1	111.9	70	130	
Cd	111	115	2	1.09	5.44	ug/l	307.79	4.88	1	109.1	70	130	
Sn	118	115	2	8.04	3.60	ug/l	4819.82	4.15	8	100.5	70	130	
Sb	121	115	2	1.01	3.34	ug/l	926.72	2.00	1	101.0	70	130	
Ba	137	159	2	2.23	3.25	ug/l	612.25	3.82	2	111.7	70	130	
Tl	205	209	2	0.40	8.07	ug/l	2434.75	8.01	0.4	100.4	70	130	
(Pb)	206	209	2	0.60	7.98	ug/l	1142.31	7.81	0.6	99.5	70	130	
(Pb)	207	209	2	0.56	6.70	ug/l	1014.52	6.64	0.6	94.1	70	130	
Pb	208	209	2	0.60	6.08	ug/l	4716.04	6.08	0.6	99.7	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19893	0.66	21135	94.1	60	120	
Sc	45	2	132844	1.74	130618	101.7	60	120	
Ge	74	1	58047	1.01	56992	101.9	60	120	
Ge	74	2	16587	1.42	16732	99.1	60	120	
Kr	83	2	17	39.99	23	71.4	-1000	1000	
In	115	2	92024	0.62	90201	102.0	60	120	
Tb	159	2	339678	0.72	337743	100.6	60	120	
Bi	209	2	284161	0.40	286349	99.2	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Quality Control Sample (QCS) - US EPA Method 200.8

Sample Name	**CRI 5806481**
Data File Name	**013QCSR.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:34:18-05:00**
Type	**2-QCS**
VialNumber	**1102**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	ExpectedValue	%Recovery	%QC Low	%QC High	QC Flag
Se	78	74	1	0.50	ug/l	0.5	100.2	50	150	
Pb	208	209	2	0.29	ug/l	0.3	97.3	50	150	
(Pb)	207	209	2	0.26	ug/l	0.3	87.4	50	150	
(Pb)	206	209	2	0.29	ug/l	0.3	95.1	50	150	
Tl	205	209	2	0.20	ug/l	0.2	98.7	50	150	
Ba	137	159	2	0.99	ug/l	1	99.0	50	150	
Sb	121	115	2	0.58	ug/l	0.5	115.7	50	150	
Sn	118	115	2	4.03	ug/l	4	100.8	50	150	
Cd	111	115	2	0.40	ug/l	0.5	80.2	50	150	
Ag	107	115	2	0.99	ug/l	1	99.4	50	150	
Mo	95	115	2	0.97	ug/l	1	97.2	50	150	
Sr	88	115	2	1.07	ug/l	1	106.7	50	150	
As	75	74	2	0.52	ug/l	0.5	103.1	50	150	
Zn	66	45	2	4.15	ug/l	4	103.9	50	150	
Cu	63	45	2	0.94	ug/l	1	93.7	50	150	
Ni	60	45	2	0.92	ug/l	1	92.1	50	150	
Co	59	45	2	0.99	ug/l	1	99.5	50	150	
Fe	56	45	2	30.74	ug/l	30	102.5	50	150	
Mn	55	45	2	2.01	ug/l	2	100.3	50	150	
Cr	52	45	2	0.95	ug/l	1	94.6	50	150	
V	51	45	2	1.02	ug/l	1	102.3	50	150	
Ti	47	45	2	0.94	ug/l	1	93.6	50	150	
Ca	44	45	2	62.37	ug/l	50	124.7	50	150	
K	39	45	2	48.96	ug/l	50	97.9	50	150	
Al	27	45	2	9.90	ug/l	10	99.0	50	150	
Mg	24	45	2	49.87	ug/l	50	99.7	50	150	
Na	23	45	2	46.49	ug/l	50	93.0	50	150	
B	11	6	2	12.79	ug/l	20	63.9	50	150	
Be	9	6	2	0.15	ug/l	0.2	72.7	50	150	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limiy	Upper Limit	QC Flag
Ge	74	1	56508	1.13	56992	99.2	60	120	
Bi	209	2	283770	0.90	286349	99.1	60	120	
Tb	159	2	337049	0.93	337743	99.8	60	120	
In	115	2	92026	1.50	90201	102.0	60	120	
Kr	83	2	29	26.64	23	123.8	-1000	1000	
Ge	74	2	16673	1.09	16732	99.6	60	120	
Sc	45	2	133811	1.63	130618	102.4	60	120	
Li	6	2	19845	1.64	21135	93.9	60	120	

Sample Report

Sample Name	**ICSA 5806491**
Data File Name	**014SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:37:37-05:00**
Type	**Sample**
VialNumber	**1202**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.13	0.13	ug/l	900	
Pb	208	209	2	0.28	0.28	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.10	0.10	ug/l	3600	
Sb	121	115	2	0.30	0.30	ug/l	3600	
Sn	118	115	2	0.22	0.22	ug/l	3600	
Cd	111	115	2	0.63	0.63	ug/l	3600	
Ag	107	115	2	0.08	0.08	ug/l	450	
Mo	95	115	2	994.93	994.93	ug/l	3600	
Sr	88	115	2	0.68	0.68	ug/l	3600	
As	75	74	2	0.02	0.02	ug/l	3600	
Zn	66	45	2	1.35	1.35	ug/l	900	
Cu	63	45	2	0.33	0.33	ug/l	450	
Ni	60	45	2	0.79	0.79	ug/l	900	
Co	59	45	2	0.00	0.00	ug/l	1800	
Fe	56	45	2	116795.54	116795.54	ug/l	45000	fail
Mn	55	45	2	0.83	0.83	ug/l	18000	
Cr	52	45	2	1.22	1.22	ug/l	3600	
V	51	45	2	0.07	0.07	ug/l	3600	
Ti	47	45	2	1030.14	1030.14	ug/l	3600	
Ca	44	45	2	145545.14	145545.14	ug/l	360000	
K	39	45	2	46590.58	46590.58	ug/l	360000	
Al	27	45	2	49292.15	49292.15	ug/l	36000	fail
Mg	24	45	2	45704.97	45704.97	ug/l	360000	
Na	23	45	2	118398.89	118398.89	ug/l	360000	
B	11	6	2	0.31	0.31	ug/l	7200	
Be	9	6	2	-0.02	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	48870	1.34	56992	85.7	60	120	
Bi	209	2	241691	0.88	286349	84.4	60	120	
Tb	159	2	318737	0.83	337743	94.4	60	120	
In	115	2	84834	0.13	90201	94.0	60	120	
Kr	83	2	26	19.92	23	109.5	-1000	1000	
Ge	74	2	15737	0.76	16732	94.1	60	120	
Sc	45	2	129998	1.55	130618	99.5	60	120	
Li	6	2	17833	2.37	21135	84.4	60	120	

Sample Report

Sample Name	**ICSAB 5806493**
Data File Name	**015SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:40:53-05:00**
Type	**Sample**
VialNumber	**1203**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	109.04	109.04	ug/l	900	
Pb	208	209	2	0.29	0.29	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	0.16	0.16	ug/l	3600	
Sb	121	115	2	0.20	0.20	ug/l	3600	
Sn	118	115	2	0.21	0.21	ug/l	3600	
Cd	111	115	2	101.40	101.40	ug/l	3600	
Ag	107	115	2	177.63	177.63	ug/l	450	
Mo	95	115	2	1015.29	1015.29	ug/l	3600	
Sr	88	115	2	0.65	0.65	ug/l	3600	
As	75	74	2	111.07	111.07	ug/l	3600	
Zn	66	45	2	97.24	97.24	ug/l	900	
Cu	63	45	2	194.72	194.72	ug/l	450	
Ni	60	45	2	196.61	196.61	ug/l	900	
Co	59	45	2	200.42	200.42	ug/l	1800	
Fe	56	45	2	119476.55	119476.55	ug/l	45000	fail
Mn	55	45	2	203.99	203.99	ug/l	18000	
Cr	52	45	2	203.83	203.83	ug/l	3600	
V	51	45	2	210.49	210.49	ug/l	3600	
Ti	47	45	2	1054.79	1054.79	ug/l	3600	
Ca	44	45	2	149588.11	149588.11	ug/l	360000	
K	39	45	2	47965.60	47965.60	ug/l	360000	
Al	27	45	2	50247.75	50247.75	ug/l	36000	fail
Mg	24	45	2	46280.73	46280.73	ug/l	360000	
Na	23	45	2	119885.08	119885.08	ug/l	360000	
B	11	6	2	-0.37	-0.37	ug/l	7200	
Be	9	6	2	-0.02	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	49221	0.12	56992	86.4	60	120	
Bi	209	2	243044	0.51	286349	84.9	60	120	
Tb	159	2	322253	0.39	337743	95.4	60	120	
In	115	2	84219	0.28	90201	93.4	60	120	
Kr	83	2	24	28.38	23	104.8	-1000	1000	
Ge	74	2	15748	0.35	16732	94.1	60	120	
Sc	45	2	127792	0.29	130618	97.8	60	120	
Li	6	2	17288	1.81	21135	81.8	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**016SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:44:09-05:00**
Type	**Sample**
VialNumber	**2**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.02	ug/l	900	
Pb	208	209	2	0.01	0.01	ug/l	3600	
Tl	205	209	2	0.02	0.02	ug/l	720	
Ba	137	159	2	0.02	0.02	ug/l	3600	
Sb	121	115	2	-0.05	-0.05	ug/l	3600	
Sn	118	115	2	0.07	0.07	ug/l	3600	
Cd	111	115	2	0.01	0.01	ug/l	3600	
Ag	107	115	2	0.97	0.97	ug/l	450	
Mo	95	115	2	0.15	0.15	ug/l	3600	
Sr	88	115	2	0.04	0.04	ug/l	3600	
As	75	74	2	0.07	0.07	ug/l	3600	
Zn	66	45	2	-0.31	-0.31	ug/l	900	
Cu	63	45	2	0.04	0.04	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	0.00	0.00	ug/l	1800	
Fe	56	45	2	10.90	10.90	ug/l	45000	
Mn	55	45	2	0.03	0.03	ug/l	18000	
Cr	52	45	2	-0.02	-0.02	ug/l	3600	
V	51	45	2	0.07	0.07	ug/l	3600	
Ti	47	45	2	0.18	0.18	ug/l	3600	
Ca	44	45	2	11.76	11.76	ug/l	360000	
K	39	45	2	6.96	6.96	ug/l	360000	
Al	27	45	2	4.35	4.35	ug/l	36000	
Mg	24	45	2	4.62	4.62	ug/l	360000	
Na	23	45	2	25.45	25.45	ug/l	360000	
B	11	6	2	-2.35	-2.35	ug/l	7200	
Be	9	6	2	-0.01	-0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58032	1.33	56992	101.8	60	120	
Bi	209	2	286643	0.37	286349	100.1	60	120	
Tb	159	2	341621	0.50	337743	101.1	60	120	
In	115	2	92001	1.02	90201	102.0	60	120	
Kr	83	2	30	19.24	23	128.6	-1000	1000	
Ge	74	2	16715	0.63	16732	99.9	60	120	
Sc	45	2	133169	3.14	130618	102.0	60	120	
Li	6	2	18811	0.56	21135	89.0	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**017SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:47:33-05:00**
Type	**Sample**
VialNumber	**2**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	0.00	ug/l	900	
Pb	208	209	2	0.01	0.01	ug/l	3600	
Tl	205	209	2	0.02	0.02	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.05	-0.05	ug/l	3600	
Sn	118	115	2	0.03	0.03	ug/l	3600	
Cd	111	115	2	0.01	0.01	ug/l	3600	
Ag	107	115	2	0.99	0.99	ug/l	450	
Mo	95	115	2	0.06	0.06	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.01	0.01	ug/l	3600	
Zn	66	45	2	-0.28	-0.28	ug/l	900	
Cu	63	45	2	0.02	0.02	ug/l	450	
Ni	60	45	2	0.01	0.01	ug/l	900	
Co	59	45	2	0.01	0.01	ug/l	1800	
Fe	56	45	2	5.86	5.86	ug/l	45000	
Mn	55	45	2	0.02	0.02	ug/l	18000	
Cr	52	45	2	0.00	0.00	ug/l	3600	
V	51	45	2	0.06	0.06	ug/l	3600	
Ti	47	45	2	0.04	0.04	ug/l	3600	
Ca	44	45	2	7.10	7.10	ug/l	360000	
K	39	45	2	2.81	2.81	ug/l	360000	
Al	27	45	2	2.15	2.15	ug/l	36000	
Mg	24	45	2	2.58	2.58	ug/l	360000	
Na	23	45	2	18.76	18.76	ug/l	360000	
B	11	6	2	1.71	1.71	ug/l	7200	
Be	9	6	2	-0.01	-0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58256	0.59	56992	102.2	60	120	
Bi	209	2	288382	0.44	286349	100.7	60	120	
Tb	159	2	343088	0.89	337743	101.6	60	120	
In	115	2	92860	1.28	90201	102.9	60	120	
Kr	83	2	16	65.47	23	66.7	-1000	1000	
Ge	74	2	16939	0.99	16732	101.2	60	120	
Sc	45	2	134105	2.46	130618	102.7	60	120	
Li	6	2	18516	0.76	21135	87.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**018SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:50:57-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.01	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	0.06	0.06	ug/l	3600	
Sb	121	115	2	-0.08	-0.08	ug/l	3600	
Sn	118	115	2	0.04	0.04	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.84	0.84	ug/l	450	
Mo	95	115	2	0.01	0.01	ug/l	3600	
Sr	88	115	2	0.03	0.03	ug/l	3600	
As	75	74	2	0.02	0.02	ug/l	3600	
Zn	66	45	2	-0.32	-0.32	ug/l	900	
Cu	63	45	2	-0.01	-0.01	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	0.00	0.00	ug/l	1800	
Fe	56	45	2	1.27	1.27	ug/l	45000	
Mn	55	45	2	0.02	0.02	ug/l	18000	
Cr	52	45	2	-0.03	-0.03	ug/l	3600	
V	51	45	2	0.07	0.07	ug/l	3600	
Ti	47	45	2	-0.01	-0.01	ug/l	3600	
Ca	44	45	2	0.73	0.73	ug/l	360000	
K	39	45	2	3.53	3.53	ug/l	360000	
Al	27	45	2	0.64	0.64	ug/l	36000	
Mg	24	45	2	1.05	1.05	ug/l	360000	
Na	23	45	2	14.09	14.09	ug/l	360000	
B	11	6	2	0.04	0.04	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57991	0.89	56992	101.8	60	120	
Bi	209	2	286193	0.16	286349	99.9	60	120	
Tb	159	2	341691	0.31	337743	101.2	60	120	
In	115	2	93348	1.23	90201	103.5	60	120	
Kr	83	2	27	12.51	23	114.3	-1000	1000	
Ge	74	2	17070	0.82	16732	102.0	60	120	
Sc	45	2	134379	1.59	130618	102.9	60	120	
Li	6	2	18447	0.78	21135	87.3	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0196CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:54:20-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	53.62	1.97	ug/l	4574.98	1.32	50	107.2	90	110	
B	11	6	2	113.16	3.56	ug/l	2812.51	2.01	100	113.2	90	110	6-CCV Main Failed
Na	23	45	2	5122.47	0.59	ug/l	2381028.98	1.16	5000	102.4	90	110	
Mg	24	45	2	5037.35	1.12	ug/l	1131640.10	2.41	5000	100.7	90	110	
Al	27	45	2	502.98	1.48	ug/l	41090.71	2.75	500	100.6	90	110	
K	39	45	2	5124.35	1.02	ug/l	778390.27	2.27	5000	102.5	90	110	
Ca	44	45	2	5079.78	0.30	ug/l	34679.00	1.61	5000	101.6	90	110	
Ti	47	45	2	51.76	3.10	ug/l	2175.74	3.33	50	103.5	90	110	
V	51	45	2	49.81	0.67	ug/l	66464.11	1.15	50	99.6	90	110	
Cr	52	45	2	49.73	0.32	ug/l	81645.88	1.42	50	99.5	90	110	
Mn	55	45	2	506.53	0.31	ug/l	412767.57	1.45	500	101.3	90	110	
Fe	56	45	2	5039.32	0.63	ug/l	6124012.34	1.57	5000	100.8	90	110	
Co	59	45	2	49.66	0.51	ug/l	126136.56	0.91	50	99.3	90	110	
Ni	60	45	2	49.33	1.35	ug/l	34560.87	1.84	50	98.7	90	110	
Cu	63	45	2	49.89	0.99	ug/l	93781.49	1.01	50	99.8	90	110	
Zn	66	45	2	49.87	1.69	ug/l	10443.79	1.07	50	99.7	90	110	
As	75	74	2	51.41	3.69	ug/l	6743.23	3.51	50	102.8	90	110	
Se	78	74	1	49.63	0.57	ug/l	5239.00	0.73	50	99.3	90	110	
Sr	88	115	2	51.75	1.23	ug/l	39793.39	1.41	50	103.5	90	110	
Mo	95	115	2	49.69	1.36	ug/l	36934.17	1.45	50	99.4	90	110	
Ag	107	115	2	50.08	0.76	ug/l	117537.07	0.33	50	100.2	90	110	
Cd	111	115	2	50.30	2.24	ug/l	14191.51	2.70	50	100.6	90	110	
Sn	118	115	2	50.11	0.18	ug/l	30144.12	0.41	50	100.2	90	110	
Sb	121	115	2	52.15	1.75	ug/l	35316.53	1.28	50	104.3	90	110	
Ba	137	159	2	50.41	1.39	ug/l	13958.06	1.62	50	100.8	90	110	
Tl	205	209	2	10.18	2.20	ug/l	58344.88	2.28	10	101.8	90	110	
Pb	208	209	2	51.41	0.24	ug/l	381767.30	0.61	50	102.8	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	18239	1.00	21135	86.3	60	120	
Sc	45	2	137347	1.31	130618	105.2	60	120	
Ge	74	1	58507	0.87	56992	102.7	60	120	
Ge	74	2	17126	1.94	16732	102.4	60	120	
Kr	83	2	26	27.15	23	109.5	-1000	1000	
In	115	2	93172	0.51	90201	103.3	60	120	
Tb	159	2	346996	0.67	337743	102.7	60	120	
Bi	209	2	277451	0.51	286349	96.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0206CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T15:57:39-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.02	-25.84	ug/l	1.89	27.01	0.2	
B	11	6	2	3.73	33.48	ug/l	593.35	4.19	20	
Na	23	45	2	4.13	22.73	ug/l	38344.74	2.65	50	
Mg	24	45	2	0.37	23.64	ug/l	253.34	6.96	50	
Al	27	45	2	-0.09	-77.89	ug/l	62.78	8.53	10	
K	39	45	2	5.37	375.95	ug/l	22325.31	11.78	50	
Ca	44	45	2	-2.68	-145.31	ug/l	208.89	14.19	50	
Ti	47	45	2	-0.04	-106.15	ug/l	1.11	173.21	1	
V	51	45	2	0.05	31.03	ug/l	134.45	13.65	1	
Cr	52	45	2	-0.04	-24.15	ug/l	253.34	6.84	1	
Mn	55	45	2	0.01	100.28	ug/l	23.33	42.86	2	
Fe	56	45	2	0.45	2.34	ug/l	3179.81	1.45	30	
Co	59	45	2	-0.01	-63.27	ug/l	24.44	82.20	1	
Ni	60	45	2	-0.03	-32.03	ug/l	32.22	23.90	1	
Cu	63	45	2	-0.01	-129.62	ug/l	420.02	3.64	1	
Zn	66	45	2	-0.44	-9.66	ug/l	172.23	5.91	4	
As	75	74	2	0.02	71.26	ug/l	8.89	28.65	0.5	
Se	78	74	1	0.01	21.81	ug/l	6.67	5.03	0.5	
Sr	88	115	2	0.00	656.24	ug/l	10.00	88.20	1	
Mo	95	115	2	0.05	60.91	ug/l	64.45	33.66	1	
Ag	107	115	2	-0.02	-16.60	ug/l	53.34	16.54	1	
Cd	111	115	2	0.00	-381.11	ug/l	3.33	100.05	0.5	
Sn	118	115	2	-0.02	-118.79	ug/l	41.11	40.82	4	
Sb	121	115	2	-0.21	-6.05	ug/l	118.89	7.06	0.5	
Ba	137	159	2	0.04	79.74	ug/l	17.78	47.19	1	
Tl	205	209	2	0.00	-104.67	ug/l	74.45	11.27	0.2	
Pb	208	209	2	0.00	-160.73	ug/l	158.90	16.82	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19205	0.66	21135	90.9	60	120	
Sc	45	2	138884	1.64	130618	106.3	60	120	
Ge	74	1	60333	0.43	56992	105.9	60	120	
Ge	74	2	17621	1.72	16732	105.3	60	120	
Kr	83	2	36	39.03	23	152.4	-1000	1000	
In	115	2	95159	0.45	90201	105.5	60	120	
Tb	159	2	347945	0.14	337743	103.0	60	120	
Bi	209	2	291518	0.48	286349	101.8	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**021LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:00:59-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.39	4.59	ug/l	37.44	3.71	0.4	96.7	70	130	
B	11	6	2	46.76	6.74	ug/l	1478.98	4.05	40	116.9	70	130	
Na	23	45	2	105.12	0.21	ug/l	84719.68	1.36	100	105.1	70	130	
Mg	24	45	2	99.84	1.87	ug/l	22739.95	0.73	100	99.8	70	130	
Al	27	45	2	20.42	4.17	ug/l	1746.79	5.13	20	102.1	70	130	
K	39	45	2	111.89	18.34	ug/l	38079.15	6.79	100	111.9	70	130	
Ca	44	45	2	104.29	9.66	ug/l	938.38	7.79	100	104.3	70	130	
Ti	47	45	2	1.76	25.56	ug/l	77.23	24.55	2	88.0	70	130	
V	51	45	2	2.07	2.86	ug/l	2855.90	1.55	2	103.7	70	130	
Cr	52	45	2	1.90	3.81	ug/l	3448.27	2.74	2	95.2	70	130	
Mn	55	45	2	4.16	5.43	ug/l	3427.15	5.30	4	104.0	70	130	
Fe	56	45	2	62.59	0.28	ug/l	79151.25	1.39	60	104.3	70	130	
Co	59	45	2	2.04	4.49	ug/l	5276.61	4.22	2	102.1	70	130	
Ni	60	45	2	2.10	5.82	ug/l	1530.12	4.37	2	104.8	70	130	
Cu	63	45	2	2.04	3.64	ug/l	4276.29	2.38	2	102.2	70	130	
Zn	66	45	2	7.85	8.34	ug/l	1874.61	7.03	8	98.1	70	130	
As	75	74	2	1.06	16.52	ug/l	144.45	16.17	1	105.8	70	130	
Se	78	74	1	5.06	1.24	ug/l	549.79	0.52	5	101.1	70	130	
Sr	88	115	2	2.10	9.27	ug/l	1643.48	8.84	2	105.2	70	130	
Mo	95	115	2	1.98	3.29	ug/l	1514.57	3.63	2	98.9	70	130	
Ag	107	115	2	1.06	4.73	ug/l	2629.20	5.38	1	106.4	70	130	
Cd	111	115	2	0.92	9.91	ug/l	266.68	9.44	1	92.1	70	130	
Sn	118	115	2	8.17	3.13	ug/l	5016.56	3.28	8	102.2	70	130	
Sb	121	115	2	0.99	4.49	ug/l	933.39	4.21	1	98.8	70	130	
Ba	137	159	2	2.15	2.51	ug/l	598.92	2.25	2	107.7	70	130	
Tl	205	209	2	0.40	1.15	ug/l	2449.19	0.55	0.4	99.3	70	130	
(Pb)	206	209	2	0.63	4.44	ug/l	1220.09	4.27	0.6	104.7	70	130	
(Pb)	207	209	2	0.63	5.24	ug/l	1141.20	5.08	0.6	104.6	70	130	
Pb	208	209	2	0.62	3.48	ug/l	4972.73	3.34	0.6	103.5	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	18630	0.45	21135	88.2	60	120	
Sc	45	2	138281	1.25	130618	105.9	60	120	
Ge	74	1	59750	0.80	56992	104.8	60	120	
Ge	74	2	17178	1.06	16732	102.7	60	120	
Kr	83	2	31	6.18	23	133.3	-1000	1000	
In	115	2	94195	1.16	90201	104.4	60	120	
Tb	159	2	344450	0.59	337743	102.0	60	120	
Bi	209	2	288956	0.57	286349	100.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-151830-L-2@2**
Data File Name	**022SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:04:20-05:00**
Type	**Sample**
VialNumber	**2101**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.04	ug/l	900	
Pb	208	209	2	0.24	0.47	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	0.60	1.20	ug/l	3600	
Sb	121	115	2	-0.29	-0.58	ug/l	3600	
Sn	118	115	2	-0.01	-0.02	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	-0.03	-0.07	ug/l	450	
Mo	95	115	2	0.03	0.07	ug/l	3600	
Sr	88	115	2	0.16	0.31	ug/l	3600	
As	75	74	2	0.02	0.04	ug/l	3600	
Zn	66	45	2	1.09	2.18	ug/l	900	
Cu	63	45	2	1.17	2.34	ug/l	450	
Ni	60	45	2	0.16	0.33	ug/l	900	
Co	59	45	2	0.02	0.04	ug/l	1800	
Fe	56	45	2	24.44	48.87	ug/l	45000	
Mn	55	45	2	0.49	0.97	ug/l	18000	
Cr	52	45	2	0.21	0.42	ug/l	3600	
V	51	45	2	0.03	0.06	ug/l	3600	
Ti	47	45	2	1.32	2.65	ug/l	3600	
Ca	44	45	2	23.05	46.11	ug/l	360000	
K	39	45	2	10.85	21.69	ug/l	360000	
Al	27	45	2	32.25	64.49	ug/l	36000	
Mg	24	45	2	7.17	14.34	ug/l	360000	
Na	23	45	2	212.33	424.66	ug/l	360000	
B	11	6	2	-8.80	-17.60	ug/l	7200	
Be	9	6	2	-0.03	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	61089	0.25	56992	107.2	60	120	
Bi	209	2	293507	0.31	286349	102.5	60	120	
Tb	159	2	346241	0.63	337743	102.5	60	120	
In	115	2	96538	0.79	90201	107.0	60	120	
Kr	83	2	23	49.48	23	100.0	-1000	1000	
Ge	74	2	17627	1.46	16732	105.4	60	120	
Sc	45	2	139843	1.04	130618	107.1	60	120	
Li	6	2	19709	1.52	21135	93.3	60	120	

Sample Report

Sample Name	**460-151830-L-5-A@10**
Data File Name	**023SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:07:39-05:00**
Type	**Sample**
VialNumber	**2102**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	0.04	ug/l	900	
Pb	208	209	2	0.11	1.09	ug/l	3600	
Tl	205	209	2	0.00	0.04	ug/l	720	
Ba	137	159	2	32.57	325.66	ug/l	3600	
Sb	121	115	2	-0.01	-0.07	ug/l	3600	
Sn	118	115	2	0.12	1.16	ug/l	3600	
Cd	111	115	2	0.01	0.09	ug/l	3600	
Ag	107	115	2	0.00	0.01	ug/l	450	
Mo	95	115	2	0.07	0.70	ug/l	3600	
Sr	88	115	2	219.51	2195.14	ug/l	3600	
As	75	74	2	1.27	12.74	ug/l	3600	
Zn	66	45	2	0.41	4.08	ug/l	900	
Cu	63	45	2	0.21	2.10	ug/l	450	
Ni	60	45	2	0.39	3.89	ug/l	900	
Co	59	45	2	0.09	0.89	ug/l	1800	
Fe	56	45	2	1100.27	11002.74	ug/l	45000	
Mn	55	45	2	112.30	1123.05	ug/l	18000	
Cr	52	45	2	0.67	6.71	ug/l	3600	
V	51	45	2	0.78	7.78	ug/l	3600	
Ti	47	45	2	2.60	25.99	ug/l	3600	
Ca	44	45	2	31504.15	315041.47	ug/l	360000	
K	39	45	2	3416.36	34163.61	ug/l	360000	
Al	27	45	2	63.75	637.48	ug/l	36000	
Mg	24	45	2	5779.76	57797.55	ug/l	360000	
Na	23	45	2	130909.80	1309098.01	ug/l	360000	
B	11	6	2	63.67	636.68	ug/l	7200	
Be	9	6	2	0.00	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56393	0.83	56992	99.0	60	120	
Bi	209	2	262751	0.31	286349	91.8	60	120	
Tb	159	2	341597	0.72	337743	101.1	60	120	
In	115	2	91264	1.65	90201	101.2	60	120	
Kr	83	2	19	71.34	23	81.0	-1000	1000	
Ge	74	2	17248	1.81	16732	103.1	60	120	
Sc	45	2	141834	1.78	130618	108.6	60	120	
Li	6	2	18583	2.35	21135	87.9	60	120	

Sample Report

Sample Name	**460-151830-L-6-A@10**
Data File Name	**024SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:10:58-05:00**
Type	**Sample**
VialNumber	**2103**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.22	ug/l	900	
Pb	208	209	2	0.98	9.77	ug/l	3600	
Tl	205	209	2	0.00	-0.04	ug/l	720	
Ba	137	159	2	78.46	784.56	ug/l	3600	
Sb	121	115	2	0.11	1.09	ug/l	3600	
Sn	118	115	2	0.41	4.12	ug/l	3600	
Cd	111	115	2	0.01	0.06	ug/l	3600	
Ag	107	115	2	-0.01	-0.06	ug/l	450	
Mo	95	115	2	0.25	2.54	ug/l	3600	
Sr	88	115	2	213.34	2133.39	ug/l	3600	
As	75	74	2	1.32	13.24	ug/l	3600	
Zn	66	45	2	1.41	14.11	ug/l	900	
Cu	63	45	2	1.51	15.14	ug/l	450	
Ni	60	45	2	0.31	3.12	ug/l	900	
Co	59	45	2	0.08	0.80	ug/l	1800	
Fe	56	45	2	3215.35	32153.55	ug/l	45000	
Mn	55	45	2	381.14	3811.38	ug/l	18000	
Cr	52	45	2	2.52	25.22	ug/l	3600	
V	51	45	2	0.57	5.73	ug/l	3600	
Ti	47	45	2	1.49	14.89	ug/l	3600	
Ca	44	45	2	29098.01	290980.12	ug/l	360000	
K	39	45	2	1263.82	12638.23	ug/l	360000	
Al	27	45	2	64.66	646.65	ug/l	36000	
Mg	24	45	2	5553.95	55539.50	ug/l	360000	
Na	23	45	2	165773.75	1657737.53	ug/l	360000	
B	11	6	2	21.47	214.66	ug/l	7200	
Be	9	6	2	-0.02	-0.24	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56961	0.38	56992	99.9	60	120	
Bi	209	2	259961	0.85	286349	90.8	60	120	
Tb	159	2	341960	0.80	337743	101.2	60	120	
In	115	2	91035	0.45	90201	100.9	60	120	
Kr	83	2	19	40.75	23	80.9	-1000	1000	
Ge	74	2	17300	1.55	16732	103.4	60	120	
Sc	45	2	144392	2.57	130618	110.5	60	120	
Li	6	2	18867	0.97	21135	89.3	60	120	

Sample Report

Sample Name	**460-151830-L-7-A@10**
Data File Name	**025SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:13:13-05:00**
Type	**Sample**
VialNumber	**2104**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	-0.03	ug/l	900	
Pb	208	209	2	0.23	2.26	ug/l	3600	
Tl	205	209	2	0.00	-0.03	ug/l	720	
Ba	137	159	2	34.16	341.63	ug/l	3600	
Sb	121	115	2	-0.01	-0.05	ug/l	3600	
Sn	118	115	2	0.11	1.07	ug/l	3600	
Cd	111	115	2	0.00	-0.03	ug/l	3600	
Ag	107	115	2	-0.01	-0.10	ug/l	450	
Mo	95	115	2	0.08	0.81	ug/l	3600	
Sr	88	115	2	213.20	2132.04	ug/l	3600	
As	75	74	2	1.32	13.24	ug/l	3600	
Zn	66	45	2	0.65	6.51	ug/l	900	
Cu	63	45	2	0.38	3.76	ug/l	450	
Ni	60	45	2	0.54	5.37	ug/l	900	
Co	59	45	2	0.13	1.27	ug/l	1800	
Fe	56	45	2	1180.48	11804.76	ug/l	45000	
Mn	55	45	2	109.72	1097.18	ug/l	18000	
Cr	52	45	2	0.84	8.39	ug/l	3600	
V	51	45	2	0.90	9.00	ug/l	3600	
Ti	47	45	2	5.83	58.28	ug/l	3600	
Ca	44	45	2	30486.64	304866.37	ug/l	360000	
K	39	45	2	3340.07	33400.74	ug/l	360000	
Al	27	45	2	127.93	1279.30	ug/l	36000	
Mg	24	45	2	5643.85	56438.52	ug/l	360000	
Na	23	45	2	126142.41	1261424.08	ug/l	360000	
B	11	6	2	62.08	620.82	ug/l	7200	
Be	9	6	2	-0.01	-0.13	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58301	0.15	56992	102.3	60	120	
Bi	209	2	265030	0.53	286349	92.6	60	120	
Tb	159	2	343553	0.95	337743	101.7	60	120	
In	115	2	92024	1.25	90201	102.0	60	120	
Kr	83	2	24	69.99	23	104.8	-1000	1000	
Ge	74	2	17290	1.58	16732	103.3	60	120	
Sc	45	2	145450	2.10	130618	111.4	60	120	
Li	6	2	19261	2.25	21135	91.1	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**026SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:16:33-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.08	-0.08	ug/l	3600	
Sn	118	115	2	0.06	0.06	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.72	0.72	ug/l	450	
Mo	95	115	2	-0.02	-0.02	ug/l	3600	
Sr	88	115	2	0.04	0.04	ug/l	3600	
As	75	74	2	0.02	0.02	ug/l	3600	
Zn	66	45	2	-0.10	-0.10	ug/l	900	
Cu	63	45	2	0.01	0.01	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	-0.01	-0.01	ug/l	1800	
Fe	56	45	2	0.22	0.22	ug/l	45000	
Mn	55	45	2	0.01	0.01	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.08	0.08	ug/l	3600	
Ti	47	45	2	-0.03	-0.03	ug/l	3600	
Ca	44	45	2	3.56	3.56	ug/l	360000	
K	39	45	2	7.58	7.58	ug/l	360000	
Al	27	45	2	0.16	0.16	ug/l	36000	
Mg	24	45	2	1.19	1.19	ug/l	360000	
Na	23	45	2	33.38	33.38	ug/l	360000	
B	11	6	2	2.13	2.13	ug/l	7200	
Be	9	6	2	-0.02	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62911	0.02	56992	110.4	60	120	
Bi	209	2	299345	0.11	286349	104.5	60	120	
Tb	159	2	355094	0.54	337743	105.1	60	120	
In	115	2	99093	1.14	90201	109.9	60	120	
Kr	83	2	47	7.15	23	200.0	-1000	1000	
Ge	74	2	17937	0.46	16732	107.2	60	120	
Sc	45	2	147601	0.40	130618	113.0	60	120	
Li	6	2	20221	0.42	21135	95.7	60	120	

Sample Report

Sample Name	**460-151662-I-7-A@2**
Data File Name	**027SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:19:56-05:00**
Type	**Sample**
VialNumber	**2105**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.15	0.29	ug/l	900	
Pb	208	209	2	0.08	0.15	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	85.81	171.61	ug/l	3600	
Sb	121	115	2	1.38	2.76	ug/l	3600	
Sn	118	115	2	0.95	1.90	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.09	0.18	ug/l	450	
Mo	95	115	2	1.81	3.61	ug/l	3600	
Sr	88	115	2	726.78	1453.55	ug/l	3600	
As	75	74	2	0.60	1.20	ug/l	3600	
Zn	66	45	2	1.19	2.37	ug/l	900	
Cu	63	45	2	0.76	1.51	ug/l	450	
Ni	60	45	2	0.59	1.18	ug/l	900	
Co	59	45	2	0.13	0.26	ug/l	1800	
Fe	56	45	2	20922.61	41845.21	ug/l	45000	
Mn	55	45	2	4444.26	8888.53	ug/l	18000	
Cr	52	45	2	0.16	0.32	ug/l	3600	
V	51	45	2	0.51	1.03	ug/l	3600	
Ti	47	45	2	0.20	0.40	ug/l	3600	
Ca	44	45	2	136577.30	273154.60	ug/l	360000	
K	39	45	2	7231.32	14462.64	ug/l	360000	
Al	27	45	2	9.66	19.32	ug/l	36000	
Mg	24	45	2	22882.14	45764.29	ug/l	360000	
Na	23	45	2	208385.21	416770.42	ug/l	360000	
B	11	6	2	45.47	90.95	ug/l	7200	
Be	9	6	2	-0.02	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	51076	0.56	56992	89.6	60	120	
Bi	209	2	243239	0.21	286349	84.9	60	120	
Tb	159	2	326319	0.81	337743	96.6	60	120	
In	115	2	85231	1.23	90201	94.5	60	120	
Kr	83	2	30	11.10	23	128.6	-1000	1000	
Ge	74	2	16386	0.72	16732	97.9	60	120	
Sc	45	2	134424	2.09	130618	102.9	60	120	
Li	6	2	16286	0.32	21135	77.1	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**028SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:23:14-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.01	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	0.00	0.00	ug/l	3600	
Sb	121	115	2	-0.01	-0.01	ug/l	3600	
Sn	118	115	2	0.05	0.05	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.64	0.64	ug/l	450	
Mo	95	115	2	0.00	0.00	ug/l	3600	
Sr	88	115	2	0.08	0.08	ug/l	3600	
As	75	74	2	0.00	0.00	ug/l	3600	
Zn	66	45	2	-0.33	-0.33	ug/l	900	
Cu	63	45	2	0.03	0.03	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.01	-0.01	ug/l	1800	
Fe	56	45	2	2.13	2.13	ug/l	45000	
Mn	55	45	2	0.44	0.44	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.06	0.06	ug/l	3600	
Ti	47	45	2	-0.02	-0.02	ug/l	3600	
Ca	44	45	2	15.32	15.32	ug/l	360000	
K	39	45	2	11.51	11.51	ug/l	360000	
Al	27	45	2	0.05	0.05	ug/l	36000	
Mg	24	45	2	2.98	2.98	ug/l	360000	
Na	23	45	2	46.29	46.29	ug/l	360000	
B	11	6	2	0.84	0.84	ug/l	7200	
Be	9	6	2	-0.02	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	63589	0.78	56992	111.6	60	120	
Bi	209	2	304924	0.55	286349	106.5	60	120	
Tb	159	2	366024	0.89	337743	108.4	60	120	
In	115	2	100870	0.35	90201	111.8	60	120	
Kr	83	2	29	37.08	23	123.8	-1000	1000	
Ge	74	2	18502	1.02	16732	110.6	60	120	
Sc	45	2	151719	0.99	130618	116.2	60	120	
Li	6	2	19794	0.69	21135	93.7	60	120	

Sample Report

Sample Name	**460-151662-I-8-A@2**
Data File Name	**029SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:26:43-05:00**
Type	**Sample**
VialNumber	**2106**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.10	ug/l	900	
Pb	208	209	2	1.13	2.26	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	30.36	60.72	ug/l	3600	
Sb	121	115	2	1.14	2.27	ug/l	3600	
Sn	118	115	2	1.16	2.33	ug/l	3600	
Cd	111	115	2	0.03	0.06	ug/l	3600	
Ag	107	115	2	0.06	0.12	ug/l	450	
Mo	95	115	2	0.88	1.75	ug/l	3600	
Sr	88	115	2	161.60	323.20	ug/l	3600	
As	75	74	2	0.27	0.54	ug/l	3600	
Zn	66	45	2	6.78	13.55	ug/l	900	
Cu	63	45	2	5.50	11.00	ug/l	450	
Ni	60	45	2	9.97	19.94	ug/l	900	
Co	59	45	2	1.41	2.82	ug/l	1800	
Fe	56	45	2	11860.70	23721.40	ug/l	45000	
Mn	55	45	2	1994.62	3989.25	ug/l	18000	
Cr	52	45	2	16.02	32.04	ug/l	3600	
V	51	45	2	1.15	2.31	ug/l	3600	
Ti	47	45	2	7.54	15.08	ug/l	3600	
Ca	44	45	2	64679.36	129358.72	ug/l	360000	
K	39	45	2	1401.59	2803.18	ug/l	360000	
Al	27	45	2	153.00	306.00	ug/l	36000	
Mg	24	45	2	13041.60	26083.21	ug/l	360000	
Na	23	45	2	194938.87	389877.74	ug/l	360000	
B	11	6	2	99.27	198.53	ug/l	7200	
Be	9	6	2	0.00	0.00	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	53724	0.56	56992	94.3	60	120	
Bi	209	2	251412	0.78	286349	87.8	60	120	
Tb	159	2	333068	0.93	337743	98.6	60	120	
In	115	2	87475	0.39	90201	97.0	60	120	
Kr	83	2	41	26.07	23	176.2	-1000	1000	
Ge	74	2	16764	1.10	16732	100.2	60	120	
Sc	45	2	138314	0.77	130618	105.9	60	120	
Li	6	2	16910	1.50	21135	80.0	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**030SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:30:03-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.05	-0.05	ug/l	3600	
Sn	118	115	2	0.03	0.03	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.75	0.75	ug/l	450	
Mo	95	115	2	-0.02	-0.02	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.01	0.01	ug/l	3600	
Zn	66	45	2	-0.41	-0.41	ug/l	900	
Cu	63	45	2	0.01	0.01	ug/l	450	
Ni	60	45	2	0.01	0.01	ug/l	900	
Co	59	45	2	-0.01	-0.01	ug/l	1800	
Fe	56	45	2	1.54	1.54	ug/l	45000	
Mn	55	45	2	0.25	0.25	ug/l	18000	
Cr	52	45	2	-0.03	-0.03	ug/l	3600	
V	51	45	2	0.05	0.05	ug/l	3600	
Ti	47	45	2	-0.04	-0.04	ug/l	3600	
Ca	44	45	2	10.95	10.95	ug/l	360000	
K	39	45	2	10.95	10.95	ug/l	360000	
Al	27	45	2	0.08	0.08	ug/l	36000	
Mg	24	45	2	2.40	2.40	ug/l	360000	
Na	23	45	2	53.42	53.42	ug/l	360000	
B	11	6	2	1.22	1.22	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	63748	0.59	56992	111.9	60	120	
Bi	209	2	301750	1.57	286349	105.4	60	120	
Tb	159	2	360019	2.74	337743	106.6	60	120	
In	115	2	99537	2.84	90201	110.3	60	120	
Kr	83	2	32	29.85	23	138.1	-1000	1000	
Ge	74	2	18285	1.27	16732	109.3	60	120	
Sc	45	2	148945	3.22	130618	114.0	60	120	
Li	6	2	20126	1.03	21135	95.2	60	120	

Sample Report

Sample Name	**460-151662-I-10-A@5**
Data File Name	**031SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:33:24-05:00**
Type	**Sample**
VialNumber	**2107**
Dilution	**5**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.06	0.30	ug/l	900	
Pb	208	209	2	0.01	0.04	ug/l	3600	
Tl	205	209	2	-0.01	-0.03	ug/l	720	
Ba	137	159	2	2.12	10.59	ug/l	3600	
Sb	121	115	2	0.33	1.67	ug/l	3600	
Sn	118	115	2	0.20	0.98	ug/l	3600	
Cd	111	115	2	-0.01	-0.03	ug/l	3600	
Ag	107	115	2	0.00	-0.01	ug/l	450	
Mo	95	115	2	0.04	0.19	ug/l	3600	
Sr	88	115	2	182.41	912.06	ug/l	3600	
As	75	74	2	0.11	0.57	ug/l	3600	
Zn	66	45	2	-0.33	-1.66	ug/l	900	
Cu	63	45	2	0.09	0.46	ug/l	450	
Ni	60	45	2	0.30	1.51	ug/l	900	
Co	59	45	2	0.02	0.12	ug/l	1800	
Fe	56	45	2	46470.84	232354.21	ug/l	45000	fail
Mn	55	45	2	256.56	1282.81	ug/l	18000	
Cr	52	45	2	0.04	0.20	ug/l	3600	
V	51	45	2	0.15	0.75	ug/l	3600	
Ti	47	45	2	0.12	0.58	ug/l	3600	
Ca	44	45	2	101277.99	506389.97	ug/l	360000	
K	39	45	2	1528.97	7644.86	ug/l	360000	
Al	27	45	2	2.30	11.51	ug/l	36000	
Mg	24	45	2	34806.63	174033.15	ug/l	360000	
Na	23	45	2	131076.47	655382.35	ug/l	360000	
B	11	6	2	64.23	321.13	ug/l	7200	
Be	9	6	2	-0.03	-0.13	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	54148	0.63	56992	95.0	60	120	
Bi	209	2	254803	0.86	286349	89.0	60	120	
Tb	159	2	336595	0.15	337743	99.7	60	120	
In	115	2	89195	0.77	90201	98.9	60	120	
Kr	83	2	30	33.33	23	128.6	-1000	1000	
Ge	74	2	16918	0.73	16732	101.1	60	120	
Sc	45	2	138370	2.23	130618	105.9	60	120	
Li	6	2	16797	1.02	21135	79.5	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0326CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:36:43-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	52.86	0.30	ug/l	4762.48	0.47	50	105.7	90	110	
B	11	6	2	107.03	0.97	ug/l	2836.96	0.68	100	107.0	90	110	
Na	23	45	2	5087.76	1.52	ug/l	2560893.37	0.74	5000	101.8	90	110	
Mg	24	45	2	4935.98	1.34	ug/l	1200526.96	0.78	5000	98.7	90	110	
Al	27	45	2	497.23	0.57	ug/l	43983.97	1.66	500	99.4	90	110	
K	39	45	2	5160.16	1.48	ug/l	848506.49	1.50	5000	103.2	90	110	
Ca	44	45	2	5094.01	0.46	ug/l	37655.72	1.26	5000	101.9	90	110	
Ti	47	45	2	51.78	4.55	ug/l	2355.77	3.21	50	103.6	90	110	
V	51	45	2	49.47	1.60	ug/l	71480.49	1.27	50	98.9	90	110	
Cr	52	45	2	48.93	0.98	ug/l	86987.41	1.10	50	97.9	90	110	
Mn	55	45	2	498.75	0.78	ug/l	440083.67	1.15	500	99.7	90	110	
Fe	56	45	2	4931.47	1.02	ug/l	6489007.54	0.60	5000	98.6	90	110	
Co	59	45	2	48.66	1.20	ug/l	133832.92	0.56	50	97.3	90	110	
Ni	60	45	2	47.79	0.84	ug/l	36254.82	0.61	50	95.6	90	110	
Cu	63	45	2	48.38	1.37	ug/l	98470.55	0.35	50	96.8	90	110	
Zn	66	45	2	47.80	2.69	ug/l	10850.73	2.19	50	95.6	90	110	
As	75	74	2	49.91	2.15	ug/l	7144.52	1.82	50	99.8	90	110	
Se	78	74	1	49.25	1.41	ug/l	5571.78	0.30	50	98.5	90	110	
Sr	88	115	2	51.88	1.44	ug/l	42065.84	0.89	50	103.8	90	110	
Mo	95	115	2	50.05	1.80	ug/l	39226.44	0.81	50	100.1	90	110	
Ag	107	115	2	49.82	0.32	ug/l	123310.93	0.95	50	99.6	90	110	
Cd	111	115	2	48.66	0.61	ug/l	14477.36	0.81	50	97.3	90	110	
Sn	118	115	2	49.84	0.82	ug/l	31618.24	1.29	50	99.7	90	110	
Sb	121	115	2	52.31	0.44	ug/l	37358.15	0.86	50	104.6	90	110	
Ba	137	159	2	52.17	0.73	ug/l	14917.88	1.07	50	104.3	90	110	
Tl	205	209	2	10.08	1.49	ug/l	60068.58	1.29	10	100.8	90	110	
Pb	208	209	2	50.90	0.34	ug/l	393137.96	0.25	50	101.8	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19258	0.25	21135	91.1	60	120	
Sc	45	2	148730	1.45	130618	113.9	60	120	
Ge	74	1	62701	1.24	56992	110.0	60	120	
Ge	74	2	18685	0.36	16732	111.7	60	120	
Kr	83	2	30	67.59	23	128.6	-1000	1000	
In	115	2	98258	1.20	90201	108.9	60	120	
Tb	159	2	358310	0.97	337743	106.1	60	120	
Bi	209	2	288611	0.27	286349	100.8	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0336CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:40:00-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-8.36	ug/l	1.56	12.61	0.2	
B	11	6	2	1.81	105.02	ug/l	582.80	7.65	20	
Na	23	45	2	26.24	7.39	ug/l	53135.99	0.36	50	
Mg	24	45	2	1.44	8.81	ug/l	543.36	7.08	50	
Al	27	45	2	-0.22	-99.17	ug/l	56.67	33.93	10	
K	39	45	2	6.29	303.47	ug/l	24581.95	11.13	50	
Ca	44	45	2	1.44	377.00	ug/l	259.45	16.68	50	
Ti	47	45	2	-0.04	-47.09	ug/l	1.11	86.60	1	
V	51	45	2	0.01	146.47	ug/l	90.00	16.14	1	
Cr	52	45	2	-0.05	-37.56	ug/l	251.12	13.10	1	
Mn	55	45	2	0.07	25.56	ug/l	73.34	19.81	2	
Fe	56	45	2	1.73	13.93	ug/l	5184.27	4.73	30	
Co	59	45	2	-0.01	-21.25	ug/l	21.11	39.75	1	
Ni	60	45	2	-0.05	-15.13	ug/l	23.33	24.74	1	
Cu	63	45	2	-0.03	-52.62	ug/l	404.47	9.90	1	
Zn	66	45	2	-0.51	-14.88	ug/l	172.23	8.73	4	
As	75	74	2	0.01	128.93	ug/l	7.78	32.73	0.5	
Se	78	74	1	0.01	104.94	ug/l	6.44	12.97	0.5	
Sr	88	115	2	0.01	124.74	ug/l	17.78	60.28	1	
Mo	95	115	2	0.01	20.63	ug/l	38.89	4.94	1	
Ag	107	115	2	-0.03	-19.86	ug/l	27.78	61.59	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	-0.03	-131.80	ug/l	42.22	50.76	4	
Sb	121	115	2	-0.25	-12.34	ug/l	102.23	21.71	0.5	
Ba	137	159	2	0.06	46.71	ug/l	25.56	32.81	1	
Tl	205	209	2	0.00	-37.95	ug/l	72.23	7.05	0.2	
Pb	208	209	2	0.00	-25.34	ug/l	142.23	7.16	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20283	1.08	21135	96.0	60	120	
Sc	45	2	151952	1.49	130618	116.3	60	120	
Ge	74	1	64574	0.42	56992	113.3	60	120	
Ge	74	2	18619	2.01	16732	111.3	60	120	
Kr	83	2	38	28.37	23	161.9	-1000	1000	
In	115	2	101440	0.72	90201	112.5	60	120	
Tb	159	2	361484	0.61	337743	107.0	60	120	
Bi	209	2	302767	0.27	286349	105.7	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**034LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:43:21-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.35	2.90	ug/l	36.89	3.17	0.4	88.7	70	130	
B	11	6	2	44.79	2.18	ug/l	1530.09	1.23	40	112.0	70	130	
Na	23	45	2	121.02	1.66	ug/l	99431.00	0.83	100	121.0	70	130	
Mg	24	45	2	99.17	0.86	ug/l	24405.69	1.05	100	99.2	70	130	
Al	27	45	2	20.43	2.74	ug/l	1887.92	3.40	20	102.2	70	130	
K	39	45	2	115.11	18.69	ug/l	41642.71	6.54	100	115.1	70	130	
Ca	44	45	2	108.97	6.72	ug/l	1048.38	6.14	100	109.0	70	130	
Ti	47	45	2	2.03	18.18	ug/l	95.56	16.76	2	101.4	70	130	
V	51	45	2	2.03	0.84	ug/l	3022.60	1.79	2	101.5	70	130	
Cr	52	45	2	1.92	2.04	ug/l	3745.01	1.31	2	95.8	70	130	
Mn	55	45	2	4.12	3.55	ug/l	3663.87	1.70	4	103.0	70	130	
Fe	56	45	2	62.33	1.77	ug/l	85154.96	0.36	60	103.9	70	130	
Co	59	45	2	1.99	0.23	ug/l	5565.60	2.05	2	99.7	70	130	
Ni	60	45	2	1.97	5.51	ug/l	1554.57	3.78	2	98.3	70	130	
Cu	63	45	2	1.92	1.56	ug/l	4370.75	1.28	2	96.0	70	130	
Zn	66	45	2	7.49	8.00	ug/l	1945.74	5.54	8	93.7	70	130	
As	75	74	2	1.02	21.25	ug/l	150.56	20.78	1	102.0	70	130	
Se	78	74	1	4.96	1.80	ug/l	571.12	1.57	5	99.2	70	130	
Sr	88	115	2	2.08	4.50	ug/l	1725.71	5.02	2	104.1	70	130	
Mo	95	115	2	1.96	1.76	ug/l	1593.47	2.21	2	98.1	70	130	
Ag	107	115	2	0.97	4.68	ug/l	2550.29	4.32	1	96.9	70	130	
Cd	111	115	2	1.00	5.59	ug/l	305.57	6.01	1	99.6	70	130	
Sn	118	115	2	8.23	2.26	ug/l	5357.79	2.74	8	102.9	70	130	
Sb	121	115	2	0.83	2.66	ug/l	878.95	2.58	1	83.4	70	130	
Ba	137	159	2	2.07	2.31	ug/l	606.70	1.65	2	103.7	70	130	
Tl	205	209	2	0.40	5.46	ug/l	2554.76	4.83	0.4	99.9	70	130	
(Pb)	206	209	2	0.58	2.57	ug/l	1181.20	2.71	0.6	97.4	70	130	
(Pb)	207	209	2	0.62	1.23	ug/l	1166.76	1.31	0.6	103.0	70	130	
Pb	208	209	2	0.60	2.93	ug/l	5004.97	2.81	0.6	100.3	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19826	0.59	21135	93.8	60	120	
Sc	45	2	149388	1.83	130618	114.4	60	120	
Ge	74	1	63289	0.48	56992	111.0	60	120	
Ge	74	2	18532	1.08	16732	110.8	60	120	
Kr	83	2	39	21.57	23	166.7	-1000	1000	
In	115	2	99896	0.82	90201	110.7	60	120	
Tb	159	2	362381	0.79	337743	107.3	60	120	
Bi	209	2	299771	0.46	286349	104.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**MB 460-504482/1-A@2**
Data File Name	**0356CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:46:43-05:00**
Type	**6-CCB**
VialNumber	**3101**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-104.31	ug/l	1.45	74.12	0.2	
B	11	6	2	11.93	17.55	ug/l	703.92	2.15	20	
Na	23	45	2	31.20	17.92	ug/l	53216.40	0.56	50	
Mg	24	45	2	0.22	82.28	ug/l	230.01	10.94	50	
Al	27	45	2	0.52	74.80	ug/l	118.89	13.47	10	
K	39	45	2	2.71	1496.61	ug/l	22939.46	11.66	50	
Ca	44	45	2	0.39	1954.31	ug/l	240.56	12.50	50	
Ti	47	45	2	0.04	179.06	ug/l	5.00	33.40	1	
V	51	45	2	0.34	12.12	ug/l	554.48	7.02	1	
Cr	52	45	2	0.00	-1872.67	ug/l	324.46	12.26	1	
Mn	55	45	2	0.03	142.75	ug/l	35.56	42.27	2	
Fe	56	45	2	0.36	16.55	ug/l	3209.27	1.13	30	
Co	59	45	2	-0.02	-31.96	ug/l	17.78	39.03	1	
Ni	60	45	2	-0.04	-32.77	ug/l	31.11	12.36	1	
Cu	63	45	2	-0.01	-161.53	ug/l	425.57	5.04	1	
Zn	66	45	2	-0.37	-81.67	ug/l	195.56	18.23	4	
As	75	74	2	0.09	66.89	ug/l	18.33	24.07	0.5	
Se	78	74	1	0.01	146.77	ug/l	6.44	12.97	0.5	
Sr	88	115	2	0.00	878.31	ug/l	11.11	96.43	1	
Mo	95	115	2	-0.02	-50.64	ug/l	14.45	26.66	1	
Ag	107	115	2	0.03	63.64	ug/l	190.01	13.24	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	0.49	27.50	ug/l	360.02	13.13	4	
Sb	121	115	2	0.68	9.88	ug/l	737.82	4.62	0.5	6-CCB Main Failed
Ba	137	159	2	0.02	79.48	ug/l	12.22	15.73	1	
Tl	205	209	2	0.00	-178.60	ug/l	60.00	33.80	0.2	
Pb	208	209	2	-0.01	-44.18	ug/l	126.68	9.49	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	17537	1.07	21135	83.0	60	120	
Sc	45	2	145342	2.06	130618	111.3	60	120	
Ge	74	1	59639	1.23	56992	104.6	60	120	
Ge	74	2	17675	0.85	16732	105.6	60	120	
Kr	83	2	38	18.36	23	161.9	-1000	1000	
In	115	2	96054	1.45	90201	106.5	60	120	
Tb	159	2	355235	0.39	337743	105.2	60	120	
Bi	209	2	288958	1.56	286349	100.9	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Sample Report

Sample Name	**LCS 460-504482/2-A@2**
Data File Name	**036SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:50:02-05:00**
Type	**Sample**
VialNumber	**3102**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	24.38	48.75	ug/l	900	
Pb	208	209	2	12.82	25.63	ug/l	3600	
Tl	205	209	2	9.92	19.85	ug/l	720	
Ba	137	159	2	25.38	50.76	ug/l	3600	
Sb	121	115	2	13.76	27.52	ug/l	3600	
Sn	118	115	2	25.80	51.59	ug/l	3600	
Cd	111	115	2	12.27	24.53	ug/l	3600	
Ag	107	115	2	12.30	24.61	ug/l	450	
Mo	95	115	2	23.97	47.95	ug/l	3600	
Sr	88	115	2	25.75	51.50	ug/l	3600	
As	75	74	2	24.76	49.52	ug/l	3600	
Zn	66	45	2	117.00	234.00	ug/l	900	
Cu	63	45	2	24.20	48.41	ug/l	450	
Ni	60	45	2	24.40	48.81	ug/l	900	
Co	59	45	2	12.15	24.29	ug/l	1800	
Fe	56	45	2	1272.04	2544.08	ug/l	45000	
Mn	55	45	2	125.98	251.97	ug/l	18000	
Cr	52	45	2	24.35	48.70	ug/l	3600	
V	51	45	2	24.18	48.36	ug/l	3600	
Ti	47	45	2	25.66	51.32	ug/l	3600	
Ca	44	45	2	1287.11	2574.22	ug/l	360000	
K	39	45	2	1274.79	2549.58	ug/l	360000	
Al	27	45	2	1212.09	2424.18	ug/l	36000	
Mg	24	45	2	1184.83	2369.65	ug/l	360000	
Na	23	45	2	1212.04	2424.08	ug/l	360000	
B	11	6	2	327.82	655.65	ug/l	7200	
Be	9	6	2	14.19	28.37	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60536	0.85	56992	106.2	60	120	
Bi	209	2	285994	0.57	286349	99.9	60	120	
Tb	159	2	354833	0.93	337743	105.1	60	120	
In	115	2	95781	0.73	90201	106.2	60	120	
Kr	83	2	39	52.37	23	166.7	-1000	1000	
Ge	74	2	17818	1.37	16732	106.5	60	120	
Sc	45	2	144079	1.45	130618	110.3	60	120	
Li	6	2	16766	1.22	21135	79.3	60	120	

Sample Report

Sample Name	**pds 460-151451-A-5-G@2**
Data File Name	**037SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:53:21-05:00**
Type	**Sample**
VialNumber	**3103**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	9.82	19.64	ug/l	900	
Pb	208	209	2	6.07	12.15	ug/l	3600	
Tl	205	209	2	3.89	7.78	ug/l	720	
Ba	137	159	2	13.78	27.56	ug/l	3600	
Sb	121	115	2	6.30	12.60	ug/l	3600	
Sn	118	115	2	10.75	21.51	ug/l	3600	
Cd	111	115	2	4.59	9.18	ug/l	3600	
Ag	107	115	2	5.31	10.62	ug/l	450	
Mo	95	115	2	10.52	21.04	ug/l	3600	
Sr	88	115	2	32.96	65.91	ug/l	3600	
As	75	74	2	10.73	21.46	ug/l	3600	
Zn	66	45	2	47.56	95.11	ug/l	900	
Cu	63	45	2	11.27	22.53	ug/l	450	
Ni	60	45	2	9.78	19.56	ug/l	900	
Co	59	45	2	4.72	9.45	ug/l	1800	
Fe	56	45	2	740.30	1480.60	ug/l	45000	
Mn	55	45	2	51.46	102.91	ug/l	18000	
Cr	52	45	2	9.83	19.67	ug/l	3600	
V	51	45	2	11.29	22.58	ug/l	3600	
Ti	47	45	2	16.07	32.13	ug/l	3600	
Ca	44	45	2	5296.42	10592.83	ug/l	360000	
K	39	45	2	1841.13	3682.25	ug/l	360000	
Al	27	45	2	821.61	1643.21	ug/l	36000	
Mg	24	45	2	1036.45	2072.89	ug/l	360000	
Na	23	45	2	6823.40	13646.81	ug/l	360000	
B	11	6	2	213.20	426.39	ug/l	7200	
Be	9	6	2	5.65	11.29	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59602	0.34	56992	104.6	60	120	
Bi	209	2	282037	0.48	286349	98.5	60	120	
Tb	159	2	349680	0.65	337743	103.5	60	120	
In	115	2	94362	1.18	90201	104.6	60	120	
Kr	83	2	37	24.04	23	157.1	-1000	1000	
Ge	74	2	17791	0.75	16732	106.3	60	120	
Sc	45	2	143867	0.65	130618	110.1	60	120	
Li	6	2	16127	1.01	21135	76.3	60	120	

Sample Report

Sample Name	**460-151451-A-5-I MS@2**
Data File Name	**038SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:56:39-05:00**
Type	**Sample**
VialNumber	**3104**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	23.41	46.83	ug/l	900	
Pb	208	209	2	13.40	26.79	ug/l	3600	
Tl	205	209	2	9.52	19.05	ug/l	720	
Ba	137	159	2	28.58	57.17	ug/l	3600	
Sb	121	115	2	14.13	28.27	ug/l	3600	
Sn	118	115	2	24.50	49.00	ug/l	3600	
Cd	111	115	2	11.97	23.93	ug/l	3600	
Ag	107	115	2	11.66	23.33	ug/l	450	
Mo	95	115	2	24.13	48.26	ug/l	3600	
Sr	88	115	2	48.57	97.15	ug/l	3600	
As	75	74	2	25.77	51.55	ug/l	3600	
Zn	66	45	2	115.17	230.34	ug/l	900	
Cu	63	45	2	24.11	48.22	ug/l	450	
Ni	60	45	2	23.14	46.28	ug/l	900	
Co	59	45	2	11.62	23.23	ug/l	1800	
Fe	56	45	2	1434.89	2869.78	ug/l	45000	
Mn	55	45	2	121.72	243.45	ug/l	18000	
Cr	52	45	2	23.49	46.98	ug/l	3600	
V	51	45	2	24.88	49.76	ug/l	3600	
Ti	47	45	2	31.55	63.09	ug/l	3600	
Ca	44	45	2	6315.10	12630.20	ug/l	360000	
K	39	45	2	2556.44	5112.88	ug/l	360000	
Al	27	45	2	1492.27	2984.53	ug/l	36000	
Mg	24	45	2	1726.03	3452.05	ug/l	360000	
Na	23	45	2	7429.04	14858.07	ug/l	360000	
B	11	6	2	394.48	788.96	ug/l	7200	
Be	9	6	2	13.87	27.74	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60062	1.52	56992	105.4	60	120	
Bi	209	2	281737	0.83	286349	98.4	60	120	
Tb	159	2	350367	0.78	337743	103.7	60	120	
In	115	2	94096	0.97	90201	104.3	60	120	
Kr	83	2	33	30.00	23	142.8	-1000	1000	
Ge	74	2	17570	1.30	16732	105.0	60	120	
Sc	45	2	143820	0.74	130618	110.1	60	120	
Li	6	2	16109	1.12	21135	76.2	60	120	

Sample Report

Sample Name	**460-151451-A-5-H DU@2**
Data File Name	**039SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T16:59:58-05:00**
Type	**Sample**
VialNumber	**3105**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.26	0.52	ug/l	900	
Pb	208	209	2	1.35	2.70	ug/l	3600	
Tl	205	209	2	0.17	0.33	ug/l	720	
Ba	137	159	2	4.28	8.57	ug/l	3600	
Sb	121	115	2	1.72	3.44	ug/l	3600	
Sn	118	115	2	0.87	1.74	ug/l	3600	
Cd	111	115	2	0.19	0.38	ug/l	3600	
Ag	107	115	2	0.12	0.25	ug/l	450	
Mo	95	115	2	1.76	3.52	ug/l	3600	
Sr	88	115	2	22.97	45.95	ug/l	3600	
As	75	74	2	1.34	2.68	ug/l	3600	
Zn	66	45	2	2.91	5.83	ug/l	900	
Cu	63	45	2	2.04	4.09	ug/l	450	
Ni	60	45	2	0.80	1.61	ug/l	900	
Co	59	45	2	0.38	0.76	ug/l	1800	
Fe	56	45	2	326.86	653.72	ug/l	45000	
Mn	55	45	2	3.11	6.23	ug/l	18000	
Cr	52	45	2	0.85	1.70	ug/l	3600	
V	51	45	2	2.25	4.49	ug/l	3600	
Ti	47	45	2	7.07	14.14	ug/l	3600	
Ca	44	45	2	4879.41	9758.82	ug/l	360000	
K	39	45	2	1364.21	2728.42	ug/l	360000	
Al	27	45	2	383.63	767.26	ug/l	36000	
Mg	24	45	2	603.66	1207.32	ug/l	360000	
Na	23	45	2	6529.81	13059.62	ug/l	360000	
B	11	6	2	90.84	181.68	ug/l	7200	
Be	9	6	2	0.26	0.53	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60280	0.31	56992	105.8	60	120	
Bi	209	2	286132	0.12	286349	99.9	60	120	
Tb	159	2	354507	1.02	337743	105.0	60	120	
In	115	2	96860	1.06	90201	107.4	60	120	
Kr	83	2	38	43.52	23	161.9	-1000	1000	
Ge	74	2	18182	1.32	16732	108.7	60	120	
Sc	45	2	144967	1.82	130618	111.0	60	120	
Li	6	2	16513	1.63	21135	78.1	60	120	

Sample Report

Sample Name	**460-151451-A-5-G@2**
Data File Name	**040SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:03:18-05:00**
Type	**Sample**
VialNumber	**3106**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.28	0.55	ug/l	900	
Pb	208	209	2	1.14	2.27	ug/l	3600	
Tl	205	209	2	0.01	0.03	ug/l	720	
Ba	137	159	2	3.76	7.52	ug/l	3600	
Sb	121	115	2	1.45	2.89	ug/l	3600	
Sn	118	115	2	0.62	1.23	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.02	0.04	ug/l	450	
Mo	95	115	2	1.39	2.79	ug/l	3600	
Sr	88	115	2	22.75	45.51	ug/l	3600	
As	75	74	2	0.90	1.80	ug/l	3600	
Zn	66	45	2	2.46	4.92	ug/l	900	
Cu	63	45	2	1.96	3.93	ug/l	450	
Ni	60	45	2	0.56	1.11	ug/l	900	
Co	59	45	2	0.09	0.19	ug/l	1800	
Fe	56	45	2	255.56	511.13	ug/l	45000	
Mn	55	45	2	2.57	5.14	ug/l	18000	
Cr	52	45	2	0.63	1.26	ug/l	3600	
V	51	45	2	2.08	4.15	ug/l	3600	
Ti	47	45	2	6.56	13.12	ug/l	3600	
Ca	44	45	2	4827.79	9655.59	ug/l	360000	
K	39	45	2	1359.10	2718.21	ug/l	360000	
Al	27	45	2	358.90	717.80	ug/l	36000	
Mg	24	45	2	581.04	1162.08	ug/l	360000	
Na	23	45	2	6331.80	12663.60	ug/l	360000	
B	11	6	2	86.87	173.74	ug/l	7200	
Be	9	6	2	0.00	-0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60799	0.98	56992	106.7	60	120	
Bi	209	2	286805	0.47	286349	100.2	60	120	
Tb	159	2	355108	0.85	337743	105.1	60	120	
In	115	2	96074	0.38	90201	106.5	60	120	
Kr	83	2	34	24.35	23	147.6	-1000	1000	
Ge	74	2	17937	0.33	16732	107.2	60	120	
Sc	45	2	145473	1.51	130618	111.4	60	120	
Li	6	2	16599	1.15	21135	78.5	60	120	

Sample Report

Sample Name	**sd 460-151451-A-5-G@10**
Data File Name	**041SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:06:40-05:00**
Type	**Sample**
VialNumber	**3107**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.04	0.38	ug/l	900	
Pb	208	209	2	0.22	2.24	ug/l	3600	
Tl	205	209	2	0.00	0.03	ug/l	720	
Ba	137	159	2	1.00	9.99	ug/l	3600	
Sb	121	115	2	0.06	0.64	ug/l	3600	
Sn	118	115	2	0.10	0.96	ug/l	3600	
Cd	111	115	2	-0.01	-0.11	ug/l	3600	
Ag	107	115	2	-0.03	-0.25	ug/l	450	
Mo	95	115	2	0.26	2.57	ug/l	3600	
Sr	88	115	2	4.74	47.42	ug/l	3600	
As	75	74	2	0.17	1.75	ug/l	3600	
Zn	66	45	2	0.30	3.04	ug/l	900	
Cu	63	45	2	0.37	3.69	ug/l	450	
Ni	60	45	2	0.08	0.82	ug/l	900	
Co	59	45	2	0.01	0.10	ug/l	1800	
Fe	56	45	2	52.50	525.01	ug/l	45000	
Mn	55	45	2	0.56	5.58	ug/l	18000	
Cr	52	45	2	0.06	0.64	ug/l	3600	
V	51	45	2	0.46	4.57	ug/l	3600	
Ti	47	45	2	1.51	15.07	ug/l	3600	
Ca	44	45	2	1007.57	10075.72	ug/l	360000	
K	39	45	2	292.74	2927.44	ug/l	360000	
Al	27	45	2	76.24	762.41	ug/l	36000	
Mg	24	45	2	121.04	1210.38	ug/l	360000	
Na	23	45	2	1274.39	12743.89	ug/l	360000	
B	11	6	2	21.94	219.40	ug/l	7200	
Be	9	6	2	-0.02	-0.18	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	64545	0.60	56992	113.3	60	120	
Bi	209	2	301937	0.15	286349	105.4	60	120	
Tb	159	2	365426	0.54	337743	108.2	60	120	
In	115	2	101141	0.44	90201	112.1	60	120	
Kr	83	2	40	22.05	23	171.4	-1000	1000	
Ge	74	2	18862	0.24	16732	112.7	60	120	
Sc	45	2	153470	1.69	130618	117.5	60	120	
Li	6	2	18768	0.49	21135	88.8	60	120	

Sample Report

Sample Name	**460-151451-G-12-E@2**
Data File Name	**042SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:09:59-05:00**
Type	**Sample**
VialNumber	**3108**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.13	0.25	ug/l	900	
Pb	208	209	2	4.24	8.49	ug/l	3600	
Tl	205	209	2	0.02	0.04	ug/l	720	
Ba	137	159	2	11.19	22.38	ug/l	3600	
Sb	121	115	2	1.40	2.81	ug/l	3600	
Sn	118	115	2	0.79	1.58	ug/l	3600	
Cd	111	115	2	0.04	0.08	ug/l	3600	
Ag	107	115	2	0.02	0.04	ug/l	450	
Mo	95	115	2	0.68	1.36	ug/l	3600	
Sr	88	115	2	8.65	17.29	ug/l	3600	
As	75	74	2	5.84	11.69	ug/l	3600	
Zn	66	45	2	21.60	43.20	ug/l	900	
Cu	63	45	2	1.85	3.69	ug/l	450	
Ni	60	45	2	1.68	3.36	ug/l	900	
Co	59	45	2	0.44	0.89	ug/l	1800	
Fe	56	45	2	1195.69	2391.38	ug/l	45000	
Mn	55	45	2	20.21	40.43	ug/l	18000	
Cr	52	45	2	1.84	3.69	ug/l	3600	
V	51	45	2	4.30	8.60	ug/l	3600	
Ti	47	45	2	40.26	80.51	ug/l	3600	
Ca	44	45	2	2229.39	4458.78	ug/l	360000	
K	39	45	2	942.27	1884.53	ug/l	360000	
Al	27	45	2	1704.22	3408.44	ug/l	36000	
Mg	24	45	2	622.94	1245.88	ug/l	360000	
Na	23	45	2	6093.59	12187.18	ug/l	360000	
B	11	6	2	68.92	137.83	ug/l	7200	
Be	9	6	2	0.04	0.08	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60081	0.12	56992	105.4	60	120	
Bi	209	2	287844	0.35	286349	100.5	60	120	
Tb	159	2	358044	0.74	337743	106.0	60	120	
In	115	2	96370	1.43	90201	106.8	60	120	
Kr	83	2	33	17.32	23	142.9	-1000	1000	
Ge	74	2	17626	1.53	16732	105.3	60	120	
Sc	45	2	145993	1.09	130618	111.8	60	120	
Li	6	2	17299	1.76	21135	81.8	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**043SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:13:19-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.01	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	0.00	0.00	ug/l	3600	
Sb	121	115	2	-0.06	-0.06	ug/l	3600	
Sn	118	115	2	0.04	0.04	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.61	0.61	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.01	0.01	ug/l	3600	
Zn	66	45	2	-0.36	-0.36	ug/l	900	
Cu	63	45	2	-0.02	-0.02	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.45	0.45	ug/l	45000	
Mn	55	45	2	0.01	0.01	ug/l	18000	
Cr	52	45	2	-0.03	-0.03	ug/l	3600	
V	51	45	2	0.10	0.10	ug/l	3600	
Ti	47	45	2	0.03	0.03	ug/l	3600	
Ca	44	45	2	4.04	4.04	ug/l	360000	
K	39	45	2	12.29	12.29	ug/l	360000	
Al	27	45	2	0.23	0.23	ug/l	36000	
Mg	24	45	2	1.20	1.20	ug/l	360000	
Na	23	45	2	15.18	15.18	ug/l	360000	
B	11	6	2	1.82	1.82	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	64581	0.57	56992	113.3	60	120	
Bi	209	2	302162	0.43	286349	105.5	60	120	
Tb	159	2	364520	0.34	337743	107.9	60	120	
In	115	2	102062	0.31	90201	113.1	60	120	
Kr	83	2	32	26.04	23	138.1	-1000	1000	
Ge	74	2	18620	0.55	16732	111.3	60	120	
Sc	45	2	153270	0.49	130618	117.3	60	120	
Li	6	2	19365	0.57	21135	91.6	60	120	

Sample Report

Sample Name	**460-151451-G-12-E@10**
Data File Name	**044SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:16:42-05:00**
Type	**Sample**
VialNumber	**3109**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.11	ug/l	900	
Pb	208	209	2	0.86	8.61	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	2.48	24.79	ug/l	3600	
Sb	121	115	2	0.05	0.47	ug/l	3600	
Sn	118	115	2	0.08	0.79	ug/l	3600	
Cd	111	115	2	0.00	0.04	ug/l	3600	
Ag	107	115	2	-0.02	-0.23	ug/l	450	
Mo	95	115	2	0.13	1.29	ug/l	3600	
Sr	88	115	2	1.83	18.26	ug/l	3600	
As	75	74	2	1.40	13.95	ug/l	3600	
Zn	66	45	2	4.29	42.93	ug/l	900	
Cu	63	45	2	0.33	3.26	ug/l	450	
Ni	60	45	2	0.35	3.52	ug/l	900	
Co	59	45	2	0.08	0.80	ug/l	1800	
Fe	56	45	2	240.02	2400.19	ug/l	45000	
Mn	55	45	2	4.11	41.11	ug/l	18000	
Cr	52	45	2	0.35	3.46	ug/l	3600	
V	51	45	2	0.92	9.25	ug/l	3600	
Ti	47	45	2	7.81	78.13	ug/l	3600	
Ca	44	45	2	450.43	4504.34	ug/l	360000	
K	39	45	2	206.28	2062.81	ug/l	360000	
Al	27	45	2	361.80	3618.04	ug/l	36000	
Mg	24	45	2	131.94	1319.37	ug/l	360000	
Na	23	45	2	1230.42	12304.23	ug/l	360000	
B	11	6	2	15.86	158.65	ug/l	7200	
Be	9	6	2	-0.02	-0.17	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	64316	0.51	56992	112.9	60	120	
Bi	209	2	299349	0.18	286349	104.5	60	120	
Tb	159	2	361108	0.59	337743	106.9	60	120	
In	115	2	100737	0.73	90201	111.7	60	120	
Kr	83	2	38	13.48	23	161.9	-1000	1000	
Ge	74	2	18454	1.20	16732	110.3	60	120	
Sc	45	2	153427	0.57	130618	117.5	60	120	
Li	6	2	19415	1.45	21135	91.9	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0456CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:20:01-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	53.20	2.01	ug/l	4909.75	1.57	50	106.4	90	110	
B	11	6	2	115.47	1.78	ug/l	3093.68	1.26	100	115.5	90	110	6-CCV Main Failed
Na	23	45	2	5079.35	1.84	ug/l	2627022.57	0.85	5000	101.6	90	110	
Mg	24	45	2	4952.68	1.67	ug/l	1237692.10	0.59	5000	99.1	90	110	
Al	27	45	2	505.90	0.93	ug/l	45977.16	0.80	500	101.2	90	110	
K	39	45	2	5225.98	0.86	ug/l	882688.25	1.06	5000	104.5	90	110	
Ca	44	45	2	5117.96	1.33	ug/l	38871.97	1.53	5000	102.4	90	110	
Ti	47	45	2	51.23	2.15	ug/l	2395.77	1.25	50	102.5	90	110	
V	51	45	2	48.91	1.70	ug/l	72623.34	1.45	50	97.8	90	110	
Cr	52	45	2	48.41	0.82	ug/l	88454.41	1.55	50	96.8	90	110	
Mn	55	45	2	498.79	0.63	ug/l	452247.30	1.25	500	99.8	90	110	
Fe	56	45	2	4898.93	0.70	ug/l	6624118.03	1.41	5000	98.0	90	110	
Co	59	45	2	48.10	1.42	ug/l	135925.07	0.90	50	96.2	90	110	
Ni	60	45	2	47.44	2.33	ug/l	36974.36	1.29	50	94.9	90	110	
Cu	63	45	2	47.69	0.55	ug/l	99767.15	0.68	50	95.4	90	110	
Zn	66	45	2	46.82	1.96	ug/l	10926.37	0.93	50	93.6	90	110	
As	75	74	2	50.15	2.57	ug/l	7121.74	2.31	50	100.3	90	110	
Se	78	74	1	48.44	0.82	ug/l	5590.79	1.42	50	96.9	90	110	
Sr	88	115	2	52.74	0.77	ug/l	43160.08	0.86	50	105.5	90	110	
Mo	95	115	2	49.78	1.65	ug/l	39385.91	0.98	50	99.6	90	110	
Ag	107	115	2	49.27	0.77	ug/l	123092.01	0.37	50	98.5	90	110	
Cd	111	115	2	47.68	2.34	ug/l	14317.19	2.02	50	95.4	90	110	
Sn	118	115	2	49.47	0.98	ug/l	31672.86	1.46	50	98.9	90	110	
Sb	121	115	2	52.45	1.39	ug/l	37808.00	2.05	50	104.9	90	110	
Ba	137	159	2	51.15	1.75	ug/l	14717.75	2.24	50	102.3	90	110	
Tl	205	209	2	10.06	0.27	ug/l	60200.34	0.58	10	100.6	90	110	
Pb	208	209	2	50.77	0.81	ug/l	393617.94	0.35	50	101.5	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19726	0.44	21135	93.3	60	120	
Sc	45	2	152821	1.21	130618	117.0	60	120	
Ge	74	1	63957	0.78	56992	112.2	60	120	
Ge	74	2	18538	1.00	16732	110.8	60	120	
Kr	83	2	38	18.36	23	161.9	-1000	1000	
In	115	2	99171	0.75	90201	109.9	60	120	
Tb	159	2	360555	1.11	337743	106.8	60	120	
Bi	209	2	289708	0.47	286349	101.2	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0466CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:23:18-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-26.14	ug/l	1.67	39.90	0.2	
B	11	6	2	2.95	27.88	ug/l	633.36	3.56	20	
Na	23	45	2	4.63	26.90	ug/l	42947.35	0.51	50	
Mg	24	45	2	0.32	25.60	ug/l	267.79	7.29	50	
Al	27	45	2	-0.04	-151.05	ug/l	75.00	5.88	10	
K	39	45	2	9.30	232.08	ug/l	25533.55	13.27	50	
Ca	44	45	2	-1.36	-212.07	ug/l	242.23	7.94	50	
Ti	47	45	2	-0.02	-243.07	ug/l	2.22	114.49	1	
V	51	45	2	0.00	-218.10	ug/l	80.00	4.17	1	
Cr	52	45	2	-0.05	-56.93	ug/l	265.57	19.50	1	
Mn	55	45	2	0.04	21.12	ug/l	52.22	16.07	2	
Fe	56	45	2	0.13	73.95	ug/l	3092.58	4.20	30	
Co	59	45	2	-0.01	-51.73	ug/l	33.33	45.83	1	
Ni	60	45	2	-0.04	-36.20	ug/l	27.78	42.13	1	
Cu	63	45	2	0.01	93.71	ug/l	498.91	2.70	1	
Zn	66	45	2	-0.40	-27.63	ug/l	202.23	13.72	4	
As	75	74	2	0.04	102.28	ug/l	11.11	48.22	0.5	
Se	78	74	1	0.01	95.65	ug/l	6.56	11.71	0.5	
Sr	88	115	2	0.00	372.90	ug/l	11.11	62.48	1	
Mo	95	115	2	-0.01	-50.95	ug/l	20.00	28.87	1	
Ag	107	115	2	-0.03	-23.79	ug/l	37.78	48.59	1	
Cd	111	115	2	0.00	-2564.46	ug/l	4.44	43.40	0.5	
Sn	118	115	2	-0.04	-13.99	ug/l	33.33	10.01	4	
Sb	121	115	2	-0.25	-21.83	ug/l	102.23	37.79	0.5	
Ba	137	159	2	0.09	13.11	ug/l	33.33	10.01	1	
Tl	205	209	2	0.00	-118.48	ug/l	73.34	19.81	0.2	
Pb	208	209	2	0.00	-199.78	ug/l	171.11	12.52	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21093	0.64	21135	99.8	60	120	
Sc	45	2	154660	1.24	130618	118.4	60	120	
Ge	74	1	65818	0.31	56992	115.5	60	120	
Ge	74	2	18735	0.65	16732	112.0	60	120	
Kr	83	2	33	20.00	23	142.9	-1000	1000	
In	115	2	102139	0.87	90201	113.2	60	120	
Tb	159	2	363948	0.30	337743	107.8	60	120	
Bi	209	2	302244	0.64	286349	105.6	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**047LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:26:41-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.36	4.79	ug/l	39.11	4.21	0.4	91.1	70	130	
B	11	6	2	46.56	7.13	ug/l	1624.55	4.24	40	116.4	70	130	
Na	23	45	2	103.46	0.97	ug/l	93397.30	0.98	100	103.5	70	130	
Mg	24	45	2	99.46	1.73	ug/l	25208.10	2.16	100	99.5	70	130	
Al	27	45	2	19.91	5.18	ug/l	1896.81	5.44	20	99.6	70	130	
K	39	45	2	114.33	16.88	ug/l	42778.92	6.78	100	114.3	70	130	
Ca	44	45	2	106.96	2.38	ug/l	1063.94	1.73	100	107.0	70	130	
Ti	47	45	2	1.87	10.23	ug/l	91.11	9.38	2	93.5	70	130	
V	51	45	2	2.05	2.09	ug/l	3145.97	1.62	2	102.6	70	130	
Cr	52	45	2	1.90	1.73	ug/l	3830.60	1.13	2	95.1	70	130	
Mn	55	45	2	4.07	2.57	ug/l	3728.33	2.46	4	101.7	70	130	
Fe	56	45	2	61.02	0.32	ug/l	85920.76	0.97	60	101.7	70	130	
Co	59	45	2	1.88	2.34	ug/l	5416.67	2.11	2	94.1	70	130	
Ni	60	45	2	1.78	2.50	ug/l	1456.78	1.87	2	89.1	70	130	
Cu	63	45	2	1.87	1.14	ug/l	4395.20	1.16	2	93.5	70	130	
Zn	66	45	2	6.89	9.02	ug/l	1867.95	8.25	8	86.1	70	130	
As	75	74	2	1.14	2.01	ug/l	167.78	0.57	1	113.6	70	130	
Se	78	74	1	4.86	1.23	ug/l	568.13	0.41	5	97.1	70	130	
Sr	88	115	2	2.15	6.43	ug/l	1810.16	7.06	2	107.7	70	130	
Mo	95	115	2	1.92	0.75	ug/l	1577.91	0.12	2	95.8	70	130	
Ag	107	115	2	0.96	4.70	ug/l	2568.08	4.14	1	96.2	70	130	
Cd	111	115	2	1.00	7.72	ug/l	310.02	7.05	1	99.6	70	130	
Sn	118	115	2	7.86	1.32	ug/l	5194.40	0.80	8	98.3	70	130	
Sb	121	115	2	0.82	11.83	ug/l	884.50	7.54	1	82.5	70	130	
Ba	137	159	2	2.14	9.70	ug/l	623.37	9.76	2	106.8	70	130	
Tl	205	209	2	0.42	2.07	ug/l	2685.90	2.19	0.4	105.0	70	130	
(Pb)	206	209	2	0.58	11.21	ug/l	1183.42	10.98	0.6	97.5	70	130	
(Pb)	207	209	2	0.61	3.19	ug/l	1145.65	2.91	0.6	100.9	70	130	
Pb	208	209	2	0.60	1.82	ug/l	4996.08	1.68	0.6	100.0	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20522	0.55	21135	97.1	60	120	
Sc	45	2	153830	0.67	130618	117.8	60	120	
Ge	74	1	64248	0.84	56992	112.7	60	120	
Ge	74	2	18634	1.39	16732	111.4	60	120	
Kr	83	2	51	16.42	23	219.0	-1000	1000	
In	115	2	101331	0.66	90201	112.3	60	120	
Tb	159	2	361495	0.54	337743	107.0	60	120	
Bi	209	2	300183	0.31	286349	104.8	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**LB 460-504124/1-B@2**
Data File Name	**048SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:30:00-05:00**
Type	**Sample**
VialNumber	**3111**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.03	0.05	ug/l	900	
Pb	208	209	2	0.08	0.16	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	0.06	0.12	ug/l	3600	
Sb	121	115	2	0.79	1.57	ug/l	3600	
Sn	118	115	2	0.52	1.03	ug/l	3600	
Cd	111	115	2	-0.01	-0.02	ug/l	3600	
Ag	107	115	2	0.01	0.02	ug/l	450	
Mo	95	115	2	0.16	0.33	ug/l	3600	
Sr	88	115	2	0.01	0.03	ug/l	3600	
As	75	74	2	0.07	0.14	ug/l	3600	
Zn	66	45	2	0.29	0.59	ug/l	900	
Cu	63	45	2	0.36	0.71	ug/l	450	
Ni	60	45	2	0.06	0.12	ug/l	900	
Co	59	45	2	0.00	0.00	ug/l	1800	
Fe	56	45	2	3.71	7.41	ug/l	45000	
Mn	55	45	2	0.08	0.15	ug/l	18000	
Cr	52	45	2	0.09	0.19	ug/l	3600	
V	51	45	2	0.45	0.90	ug/l	3600	
Ti	47	45	2	0.07	0.14	ug/l	3600	
Ca	44	45	2	7.22	14.43	ug/l	360000	
K	39	45	2	11.31	22.62	ug/l	360000	
Al	27	45	2	2.25	4.49	ug/l	36000	
Mg	24	45	2	0.32	0.64	ug/l	360000	
Na	23	45	2	16.66	33.32	ug/l	360000	
B	11	6	2	7.70	15.41	ug/l	7200	
Be	9	6	2	-0.03	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59774	0.05	56992	104.9	60	120	
Bi	209	2	289190	0.67	286349	101.0	60	120	
Tb	159	2	352457	0.46	337743	104.4	60	120	
In	115	2	96422	2.49	90201	106.9	60	120	
Kr	83	2	36	10.83	23	152.4	-1000	1000	
Ge	74	2	17846	0.81	16732	106.7	60	120	
Sc	45	2	145371	0.73	130618	111.3	60	120	
Li	6	2	17854	2.10	21135	84.5	60	120	

Sample Report

Sample Name	**LB 460-503828/1-C@2**
Data File Name	**049SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:33:22-05:00**
Type	**Sample**
VialNumber	**3206**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.05	ug/l	900	
Pb	208	209	2	0.00	0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.02	0.04	ug/l	3600	
Sb	121	115	2	0.81	1.62	ug/l	3600	
Sn	118	115	2	0.51	1.02	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.00	0.00	ug/l	450	
Mo	95	115	2	0.06	0.13	ug/l	3600	
Sr	88	115	2	0.01	0.03	ug/l	3600	
As	75	74	2	0.07	0.14	ug/l	3600	
Zn	66	45	2	0.15	0.31	ug/l	900	
Cu	63	45	2	0.51	1.02	ug/l	450	
Ni	60	45	2	0.19	0.38	ug/l	900	
Co	59	45	2	0.01	0.02	ug/l	1800	
Fe	56	45	2	251.20	502.39	ug/l	45000	
Mn	55	45	2	2.25	4.51	ug/l	18000	
Cr	52	45	2	0.38	0.76	ug/l	3600	
V	51	45	2	0.43	0.86	ug/l	3600	
Ti	47	45	2	0.14	0.29	ug/l	3600	
Ca	44	45	2	1.20	2.39	ug/l	360000	
K	39	45	2	6.86	13.73	ug/l	360000	
Al	27	45	2	3.28	6.57	ug/l	36000	
Mg	24	45	2	0.20	0.41	ug/l	360000	
Na	23	45	2	12.66	25.33	ug/l	360000	
B	11	6	2	8.11	16.22	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59192	0.85	56992	103.9	60	120	
Bi	209	2	288471	0.37	286349	100.7	60	120	
Tb	159	2	353354	0.97	337743	104.6	60	120	
In	115	2	95717	0.35	90201	106.1	60	120	
Kr	83	2	26	15.07	23	109.5	-1000	1000	
Ge	74	2	17772	1.22	16732	106.2	60	120	
Sc	45	2	145598	1.29	130618	111.5	60	120	
Li	6	2	17421	1.35	21135	82.4	60	120	

Sample Report

Sample Name	**460-151451-A-41-E@2**
Data File Name	**050SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:36:45-05:00**
Type	**Sample**
VialNumber	**3110**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.40	0.80	ug/l	900	
Pb	208	209	2	2.75	5.50	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	8.23	16.46	ug/l	3600	
Sb	121	115	2	3.40	6.79	ug/l	3600	
Sn	118	115	2	0.59	1.17	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	0.02	0.03	ug/l	450	
Mo	95	115	2	8.40	16.81	ug/l	3600	
Sr	88	115	2	34.59	69.18	ug/l	3600	
As	75	74	2	4.47	8.94	ug/l	3600	
Zn	66	45	2	2.98	5.97	ug/l	900	
Cu	63	45	2	4.02	8.04	ug/l	450	
Ni	60	45	2	0.86	1.71	ug/l	900	
Co	59	45	2	0.15	0.30	ug/l	1800	
Fe	56	45	2	266.62	533.25	ug/l	45000	
Mn	55	45	2	4.91	9.82	ug/l	18000	
Cr	52	45	2	0.63	1.27	ug/l	3600	
V	51	45	2	4.46	8.91	ug/l	3600	
Ti	47	45	2	7.52	15.03	ug/l	3600	
Ca	44	45	2	6775.86	13551.71	ug/l	360000	
K	39	45	2	2154.24	4308.48	ug/l	360000	
Al	27	45	2	330.76	661.52	ug/l	36000	
Mg	24	45	2	839.71	1679.41	ug/l	360000	
Na	23	45	2	6727.95	13455.91	ug/l	360000	
B	11	6	2	79.22	158.43	ug/l	7200	
Be	9	6	2	-0.02	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59224	0.24	56992	103.9	60	120	
Bi	209	2	282102	0.52	286349	98.5	60	120	
Tb	159	2	350749	0.08	337743	103.9	60	120	
In	115	2	94947	0.84	90201	105.3	60	120	
Kr	83	2	34	31.11	23	147.6	-1000	1000	
Ge	74	2	17732	0.91	16732	106.0	60	120	
Sc	45	2	145390	1.27	130618	111.3	60	120	
Li	6	2	17126	0.56	21135	81.0	60	120	

Sample Report

Sample Name	**460-151023-F-8-G@2**
Data File Name	**051SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:41:20-05:00**
Type	**Sample**
VialNumber	**3112**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.03	ug/l	900	
Pb	208	209	2	2.76	5.52	ug/l	3600	
Tl	205	209	2	0.02	0.05	ug/l	720	
Ba	137	159	2	13.13	26.27	ug/l	3600	
Sb	121	115	2	1.72	3.45	ug/l	3600	
Sn	118	115	2	0.39	0.78	ug/l	3600	
Cd	111	115	2	-0.01	-0.03	ug/l	3600	
Ag	107	115	2	0.01	0.01	ug/l	450	
Mo	95	115	2	0.82	1.63	ug/l	3600	
Sr	88	115	2	2.14	4.28	ug/l	3600	
As	75	74	2	1.20	2.40	ug/l	3600	
Zn	66	45	2	5.96	11.93	ug/l	900	
Cu	63	45	2	1.29	2.58	ug/l	450	
Ni	60	45	2	2.82	5.63	ug/l	900	
Co	59	45	2	0.84	1.69	ug/l	1800	
Fe	56	45	2	2088.68	4177.36	ug/l	45000	
Mn	55	45	2	28.05	56.10	ug/l	18000	
Cr	52	45	2	3.10	6.20	ug/l	3600	
V	51	45	2	5.70	11.40	ug/l	3600	
Ti	47	45	2	70.39	140.77	ug/l	3600	
Ca	44	45	2	409.73	819.46	ug/l	360000	
K	39	45	2	1129.71	2259.43	ug/l	360000	
Al	27	45	2	2587.56	5175.12	ug/l	36000	
Mg	24	45	2	653.15	1306.30	ug/l	360000	
Na	23	45	2	8994.26	17988.53	ug/l	360000	
B	11	6	2	85.35	170.69	ug/l	7200	
Be	9	6	2	0.17	0.34	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59169	0.49	56992	103.8	60	120	
Bi	209	2	286319	0.70	286349	100.0	60	120	
Tb	159	2	354675	0.15	337743	105.0	60	120	
In	115	2	95920	0.95	90201	106.3	60	120	
Kr	83	2	42	27.73	23	181.0	-1000	1000	
Ge	74	2	17830	0.94	16732	106.6	60	120	
Sc	45	2	146309	0.66	130618	112.0	60	120	
Li	6	2	17132	0.84	21135	81.1	60	120	

Sample Report

Sample Name	**460-151023-F-8-G@10**
Data File Name	**052SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:44:36-05:00**
Type	**Sample**
VialNumber	**3201**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.19	ug/l	900	
Pb	208	209	2	0.59	5.86	ug/l	3600	
Tl	205	209	2	0.00	0.02	ug/l	720	
Ba	137	159	2	2.57	25.73	ug/l	3600	
Sb	121	115	2	0.00	0.03	ug/l	3600	
Sn	118	115	2	0.04	0.36	ug/l	3600	
Cd	111	115	2	-0.01	-0.11	ug/l	3600	
Ag	107	115	2	-0.03	-0.32	ug/l	450	
Mo	95	115	2	0.13	1.26	ug/l	3600	
Sr	88	115	2	0.45	4.54	ug/l	3600	
As	75	74	2	0.24	2.38	ug/l	3600	
Zn	66	45	2	0.96	9.58	ug/l	900	
Cu	63	45	2	0.18	1.79	ug/l	450	
Ni	60	45	2	0.52	5.22	ug/l	900	
Co	59	45	2	0.17	1.74	ug/l	1800	
Fe	56	45	2	445.52	4455.23	ug/l	45000	
Mn	55	45	2	5.87	58.74	ug/l	18000	
Cr	52	45	2	0.62	6.16	ug/l	3600	
V	51	45	2	1.26	12.58	ug/l	3600	
Ti	47	45	2	15.09	150.92	ug/l	3600	
Ca	44	45	2	83.99	839.92	ug/l	360000	
K	39	45	2	251.95	2519.45	ug/l	360000	
Al	27	45	2	562.36	5623.57	ug/l	36000	
Mg	24	45	2	139.44	1394.38	ug/l	360000	
Na	23	45	2	1935.00	19350.01	ug/l	360000	
B	11	6	2	17.01	170.07	ug/l	7200	
Be	9	6	2	0.00	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	63051	0.97	56992	110.6	60	120	
Bi	209	2	297922	0.62	286349	104.0	60	120	
Tb	159	2	362869	0.23	337743	107.4	60	120	
In	115	2	101190	0.78	90201	112.2	60	120	
Kr	83	2	31	48.31	23	133.3	-1000	1000	
Ge	74	2	18490	0.38	16732	110.5	60	120	
Sc	45	2	150651	1.15	130618	115.3	60	120	
Li	6	2	19248	1.39	21135	91.1	60	120	

Sample Report

Sample Name	**460-151023-E-14-J@2**
Data File Name	**053SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:47:57-05:00**
Type	**Sample**
VialNumber	**3202**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	-0.01	ug/l	900	
Pb	208	209	2	1.17	2.34	ug/l	3600	
Tl	205	209	2	0.02	0.04	ug/l	720	
Ba	137	159	2	10.78	21.57	ug/l	3600	
Sb	121	115	2	0.73	1.45	ug/l	3600	
Sn	118	115	2	0.41	0.81	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.01	-0.03	ug/l	450	
Mo	95	115	2	0.32	0.64	ug/l	3600	
Sr	88	115	2	4.32	8.65	ug/l	3600	
As	75	74	2	0.69	1.39	ug/l	3600	
Zn	66	45	2	3.63	7.27	ug/l	900	
Cu	63	45	2	1.12	2.24	ug/l	450	
Ni	60	45	2	1.53	3.05	ug/l	900	
Co	59	45	2	0.54	1.07	ug/l	1800	
Fe	56	45	2	1614.42	3228.84	ug/l	45000	
Mn	55	45	2	21.21	42.42	ug/l	18000	
Cr	52	45	2	2.56	5.13	ug/l	3600	
V	51	45	2	5.24	10.49	ug/l	3600	
Ti	47	45	2	63.05	126.09	ug/l	3600	
Ca	44	45	2	1763.52	3527.05	ug/l	360000	
K	39	45	2	1225.16	2450.31	ug/l	360000	
Al	27	45	2	1909.24	3818.48	ug/l	36000	
Mg	24	45	2	862.93	1725.87	ug/l	360000	
Na	23	45	2	5899.41	11798.81	ug/l	360000	
B	11	6	2	50.72	101.45	ug/l	7200	
Be	9	6	2	0.09	0.19	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59243	0.13	56992	103.9	60	120	
Bi	209	2	284458	0.88	286349	99.3	60	120	
Tb	159	2	351531	0.76	337743	104.1	60	120	
In	115	2	95652	1.16	90201	106.0	60	120	
Kr	83	2	29	17.63	23	123.8	-1000	1000	
Ge	74	2	17763	1.26	16732	106.2	60	120	
Sc	45	2	145754	0.13	130618	111.6	60	120	
Li	6	2	17278	0.89	21135	81.8	60	120	

Sample Report

Sample Name	**460-151023-E-14-J@10**
Data File Name	**054SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:51:13-05:00**
Type	**Sample**
VialNumber	**3203**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.13	ug/l	900	
Pb	208	209	2	0.23	2.29	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	2.50	24.95	ug/l	3600	
Sb	121	115	2	-0.06	-0.63	ug/l	3600	
Sn	118	115	2	0.01	0.10	ug/l	3600	
Cd	111	115	2	-0.01	-0.07	ug/l	3600	
Ag	107	115	2	-0.03	-0.32	ug/l	450	
Mo	95	115	2	0.02	0.20	ug/l	3600	
Sr	88	115	2	0.93	9.31	ug/l	3600	
As	75	74	2	0.13	1.34	ug/l	3600	
Zn	66	45	2	0.37	3.71	ug/l	900	
Cu	63	45	2	0.19	1.89	ug/l	450	
Ni	60	45	2	0.30	2.97	ug/l	900	
Co	59	45	2	0.11	1.14	ug/l	1800	
Fe	56	45	2	339.50	3395.04	ug/l	45000	
Mn	55	45	2	4.66	46.59	ug/l	18000	
Cr	52	45	2	0.48	4.83	ug/l	3600	
V	51	45	2	1.15	11.52	ug/l	3600	
Ti	47	45	2	13.41	134.07	ug/l	3600	
Ca	44	45	2	377.81	3778.11	ug/l	360000	
K	39	45	2	269.39	2693.89	ug/l	360000	
Al	27	45	2	409.84	4098.45	ug/l	36000	
Mg	24	45	2	186.75	1867.51	ug/l	360000	
Na	23	45	2	1207.44	12074.40	ug/l	360000	
B	11	6	2	12.03	120.26	ug/l	7200	
Be	9	6	2	0.00	0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	63010	0.19	56992	110.6	60	120	
Bi	209	2	299340	0.17	286349	104.5	60	120	
Tb	159	2	358579	0.53	337743	106.2	60	120	
In	115	2	100264	0.71	90201	111.2	60	120	
Kr	83	2	42	4.55	23	180.9	-1000	1000	
Ge	74	2	18291	1.69	16732	109.3	60	120	
Sc	45	2	150369	0.96	130618	115.1	60	120	
Li	6	2	19587	2.76	21135	92.7	60	120	

Sample Report

Sample Name	**460-151032-E-17-D@2**
Data File Name	**055SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T17:57:54-05:00**
Type	**Sample**
VialNumber	**3204**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.29	0.59	ug/l	900	
Pb	208	209	2	3.22	6.44	ug/l	3600	
Tl	205	209	2	0.15	0.30	ug/l	720	
Ba	137	159	2	25.23	50.45	ug/l	3600	
Sb	121	115	2	1.21	2.41	ug/l	3600	
Sn	118	115	2	0.72	1.44	ug/l	3600	
Cd	111	115	2	0.12	0.24	ug/l	3600	
Ag	107	115	2	0.06	0.12	ug/l	450	
Mo	95	115	2	0.48	0.95	ug/l	3600	
Sr	88	115	2	4.19	8.38	ug/l	3600	
As	75	74	2	1.48	2.96	ug/l	3600	
Zn	66	45	2	9.94	19.89	ug/l	900	
Cu	63	45	2	2.23	4.46	ug/l	450	
Ni	60	45	2	4.16	8.31	ug/l	900	
Co	59	45	2	2.06	4.12	ug/l	1800	
Fe	56	45	2	3950.48	7900.96	ug/l	45000	
Mn	55	45	2	136.28	272.56	ug/l	18000	
Cr	52	45	2	5.11	10.21	ug/l	3600	
V	51	45	2	9.12	18.24	ug/l	3600	
Ti	47	45	2	183.71	367.42	ug/l	3600	
Ca	44	45	2	752.95	1505.89	ug/l	360000	
K	39	45	2	1113.72	2227.45	ug/l	360000	
Al	27	45	2	5391.26	10782.51	ug/l	36000	
Mg	24	45	2	813.27	1626.54	ug/l	360000	
Na	23	45	2	11547.11	23094.21	ug/l	360000	
B	11	6	2	95.09	190.19	ug/l	7200	
Be	9	6	2	0.43	0.87	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59402	0.54	56992	104.2	60	120	
Bi	209	2	282117	0.38	286349	98.5	60	120	
Tb	159	2	353271	0.55	337743	104.6	60	120	
In	115	2	95642	0.73	90201	106.0	60	120	
Kr	83	2	37	9.10	23	157.1	-1000	1000	
Ge	74	2	17903	1.86	16732	107.0	60	120	
Sc	45	2	144598	1.38	130618	110.7	60	120	
Li	6	2	17457	0.29	21135	82.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**056SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:01:14-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.05	ug/l	900	
Pb	208	209	2	0.07	0.07	ug/l	3600	
Tl	205	209	2	0.05	0.05	ug/l	720	
Ba	137	159	2	0.09	0.09	ug/l	3600	
Sb	121	115	2	-0.07	-0.07	ug/l	3600	
Sn	118	115	2	0.06	0.06	ug/l	3600	
Cd	111	115	2	0.06	0.06	ug/l	3600	
Ag	107	115	2	0.48	0.48	ug/l	450	
Mo	95	115	2	0.09	0.09	ug/l	3600	
Sr	88	115	2	0.12	0.12	ug/l	3600	
As	75	74	2	0.04	0.04	ug/l	3600	
Zn	66	45	2	-0.24	-0.24	ug/l	900	
Cu	63	45	2	0.07	0.07	ug/l	450	
Ni	60	45	2	0.07	0.07	ug/l	900	
Co	59	45	2	0.08	0.08	ug/l	1800	
Fe	56	45	2	10.40	10.40	ug/l	45000	
Mn	55	45	2	0.23	0.23	ug/l	18000	
Cr	52	45	2	0.05	0.05	ug/l	3600	
V	51	45	2	0.23	0.23	ug/l	3600	
Ti	47	45	2	0.10	0.10	ug/l	3600	
Ca	44	45	2	17.39	17.39	ug/l	360000	
K	39	45	2	14.25	14.25	ug/l	360000	
Al	27	45	2	4.34	4.34	ug/l	36000	
Mg	24	45	2	5.44	5.44	ug/l	360000	
Na	23	45	2	26.72	26.72	ug/l	360000	
B	11	6	2	-0.60	-0.60	ug/l	7200	
Be	9	6	2	0.06	0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62389	0.34	56992	109.5	60	120	
Bi	209	2	299775	0.78	286349	104.7	60	120	
Tb	159	2	359429	0.51	337743	106.4	60	120	
In	115	2	100692	0.34	90201	111.6	60	120	
Kr	83	2	46	11.18	23	195.2	-1000	1000	
Ge	74	2	18303	1.01	16732	109.4	60	120	
Sc	45	2	150631	1.51	130618	115.3	60	120	
Li	6	2	19921	0.12	21135	94.3	60	120	

Sample Report

Sample Name	**460-151032-E-17-D@2**
Data File Name	**057SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:04:37-05:00**
Type	**Sample**
VialNumber	**3205**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.07	0.13	ug/l	900	
Pb	208	209	2	0.68	1.37	ug/l	3600	
Tl	205	209	2	0.05	0.10	ug/l	720	
Ba	137	159	2	5.53	11.06	ug/l	3600	
Sb	121	115	2	-0.04	-0.07	ug/l	3600	
Sn	118	115	2	0.12	0.25	ug/l	3600	
Cd	111	115	2	0.05	0.10	ug/l	3600	
Ag	107	115	2	-0.01	-0.02	ug/l	450	
Mo	95	115	2	0.12	0.24	ug/l	3600	
Sr	88	115	2	0.88	1.76	ug/l	3600	
As	75	74	2	0.31	0.62	ug/l	3600	
Zn	66	45	2	1.83	3.66	ug/l	900	
Cu	63	45	2	0.41	0.82	ug/l	450	
Ni	60	45	2	0.84	1.68	ug/l	900	
Co	59	45	2	0.45	0.89	ug/l	1800	
Fe	56	45	2	865.82	1731.64	ug/l	45000	
Mn	55	45	2	27.89	55.78	ug/l	18000	
Cr	52	45	2	1.03	2.06	ug/l	3600	
V	51	45	2	1.99	3.97	ug/l	3600	
Ti	47	45	2	54.69	109.38	ug/l	3600	
Ca	44	45	2	156.56	313.12	ug/l	360000	
K	39	45	2	239.78	479.56	ug/l	360000	
Al	27	45	2	1178.42	2356.84	ug/l	36000	
Mg	24	45	2	173.27	346.55	ug/l	360000	
Na	23	45	2	2498.02	4996.05	ug/l	360000	
B	11	6	2	19.05	38.10	ug/l	7200	
Be	9	6	2	0.07	0.14	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62809	0.20	56992	110.2	60	120	
Bi	209	2	295252	0.83	286349	103.1	60	120	
Tb	159	2	355546	1.38	337743	105.3	60	120	
In	115	2	99445	0.59	90201	110.2	60	120	
Kr	83	2	44	24.11	23	190.5	-1000	1000	
Ge	74	2	18301	0.47	16732	109.4	60	120	
Sc	45	2	150855	0.96	130618	115.5	60	120	
Li	6	2	20004	0.59	21135	94.6	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0586CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:07:55-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	52.10	1.35	ug/l	4872.62	0.80	50	104.2	90	110	
B	11	6	2	110.06	1.88	ug/l	3013.11	0.74	100	110.1	90	110	6-CCV Main Failed
Na	23	45	2	5098.98	1.16	ug/l	2588044.74	1.70	5000	102.0	90	110	
Mg	24	45	2	4998.42	0.40	ug/l	1225884.05	0.97	5000	100.0	90	110	
Al	27	45	2	508.68	1.40	ug/l	45367.69	2.02	500	101.7	90	110	
K	39	45	2	5178.38	0.34	ug/l	858507.27	0.96	5000	103.6	90	110	
Ca	44	45	2	5154.56	0.44	ug/l	38415.34	0.67	5000	103.1	90	110	
Ti	47	45	2	50.58	3.82	ug/l	2321.32	4.34	50	101.2	90	110	
V	51	45	2	49.03	0.55	ug/l	71440.57	0.62	50	98.1	90	110	
Cr	52	45	2	48.10	1.01	ug/l	86224.83	0.77	50	96.2	90	110	
Mn	55	45	2	493.08	0.94	ug/l	438679.07	0.46	500	98.6	90	110	
Fe	56	45	2	4874.74	1.39	ug/l	6467514.69	0.82	5000	97.5	90	110	
Co	59	45	2	48.10	1.11	ug/l	133390.91	0.52	50	96.2	90	110	
Ni	60	45	2	47.65	1.06	ug/l	36454.08	0.98	50	95.3	90	110	
Cu	63	45	2	47.78	0.90	ug/l	98085.41	0.67	50	95.6	90	110	
Zn	66	45	2	47.74	3.20	ug/l	10927.51	2.49	50	95.5	90	110	
As	75	74	2	50.63	2.28	ug/l	7063.36	2.07	50	101.3	90	110	
Se	78	74	1	49.43	0.69	ug/l	5519.99	0.21	50	98.9	90	110	
Sr	88	115	2	52.95	0.43	ug/l	42635.42	0.95	50	105.9	90	110	
Mo	95	115	2	49.49	1.21	ug/l	38520.14	1.71	50	99.0	90	110	
Ag	107	115	2	49.55	0.53	ug/l	121795.10	1.07	50	99.1	90	110	
Cd	111	115	2	49.50	1.61	ug/l	14623.05	0.76	50	99.0	90	110	
Sn	118	115	2	49.17	1.43	ug/l	30973.53	1.79	50	98.3	90	110	
Sb	121	115	2	51.28	0.51	ug/l	36372.41	1.22	50	102.6	90	110	
Ba	137	159	2	51.76	1.80	ug/l	14698.79	1.75	50	103.5	90	110	
Tl	205	209	2	10.11	1.73	ug/l	59730.64	1.46	10	101.1	90	110	
Pb	208	209	2	50.72	1.08	ug/l	388209.52	0.78	50	101.4	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19991	0.80	21135	94.6	60	120	
Sc	45	2	149956	0.63	130618	114.8	60	120	
Ge	74	1	61896	0.78	56992	108.6	60	120	
Ge	74	2	18210	0.25	16732	108.8	60	120	
Kr	83	2	39	32.46	23	166.7	-1000	1000	
In	115	2	97566	0.95	90201	108.2	60	120	
Tb	159	2	355847	0.49	337743	105.4	60	120	
Bi	209	2	286009	1.46	286349	99.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0596CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:11:12-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	0.02	71.49	ug/l	6.11	22.11	0.2	
B	11	6	2	3.14	42.32	ug/l	641.69	5.71	20	
Na	23	45	2	11.48	6.29	ug/l	45133.10	0.56	50	
Mg	24	45	2	3.47	7.44	ug/l	1034.51	5.81	50	
Al	27	45	2	2.08	23.66	ug/l	261.12	16.38	10	
K	39	45	2	9.11	206.42	ug/l	24785.67	12.61	50	
Ca	44	45	2	9.91	47.30	ug/l	318.90	10.56	50	
Ti	47	45	2	0.04	179.59	ug/l	5.00	66.60	1	
V	51	45	2	0.08	14.89	ug/l	188.90	9.05	1	
Cr	52	45	2	0.01	231.45	ug/l	348.90	6.14	1	
Mn	55	45	2	0.19	11.37	ug/l	186.67	10.86	2	
Fe	56	45	2	6.48	4.31	ug/l	11438.77	3.45	30	
Co	59	45	2	0.04	32.64	ug/l	171.12	20.65	1	
Ni	60	45	2	0.01	210.83	ug/l	63.34	13.93	1	
Cu	63	45	2	0.03	39.33	ug/l	533.36	5.45	1	
Zn	66	45	2	-0.46	-16.63	ug/l	182.23	9.21	4	
As	75	74	2	0.07	37.17	ug/l	15.56	22.28	0.5	
Se	78	74	1	0.05	51.02	ug/l	11.67	27.28	0.5	
Sr	88	115	2	0.06	11.73	ug/l	56.67	10.19	1	
Mo	95	115	2	0.07	15.08	ug/l	85.56	9.81	1	
Ag	107	115	2	-0.02	-20.46	ug/l	73.34	12.03	1	
Cd	111	115	2	0.04	46.00	ug/l	15.56	32.73	0.5	
Sn	118	115	2	0.03	158.26	ug/l	76.67	37.66	4	
Sb	121	115	2	-0.19	-11.45	ug/l	138.89	11.84	0.5	
Ba	137	159	2	0.16	25.83	ug/l	53.34	22.54	1	
Tl	205	209	2	0.03	19.18	ug/l	276.68	13.42	0.2	
Pb	208	209	2	0.04	17.26	ug/l	516.69	11.77	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21220	1.05	21135	100.4	60	120	
Sc	45	2	150170	0.45	130618	115.0	60	120	
Ge	74	1	63141	0.40	56992	110.8	60	120	
Ge	74	2	18567	1.49	16732	111.0	60	120	
Kr	83	2	30	22.23	23	128.6	-1000	1000	
In	115	2	100503	0.61	90201	111.4	60	120	
Tb	159	2	357645	0.46	337743	105.9	60	120	
Bi	209	2	299013	0.67	286349	104.4	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**060LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:14:32-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.41	2.05	ug/l	44.56	2.16	0.4	103.4	70	130	
B	11	6	2	44.87	6.89	ug/l	1612.33	4.12	40	112.2	70	130	
Na	23	45	2	110.91	1.60	ug/l	94763.66	1.49	100	110.9	70	130	
Mg	24	45	2	101.75	0.32	ug/l	25131.38	1.52	100	101.7	70	130	
Al	27	45	2	22.30	0.39	ug/l	2061.83	1.75	20	111.5	70	130	
K	39	45	2	115.13	16.99	ug/l	41820.99	6.59	100	115.1	70	130	
Ca	44	45	2	109.15	2.39	ug/l	1053.39	2.46	100	109.2	70	130	
Ti	47	45	2	2.15	14.76	ug/l	101.67	15.64	2	107.4	70	130	
V	51	45	2	2.03	3.65	ug/l	3035.95	2.32	2	101.6	70	130	
Cr	52	45	2	1.91	3.90	ug/l	3741.67	4.06	2	95.3	70	130	
Mn	55	45	2	4.32	0.91	ug/l	3859.50	1.00	4	108.1	70	130	
Fe	56	45	2	66.66	1.81	ug/l	91212.72	0.45	60	111.1	70	130	
Co	59	45	2	2.03	2.96	ug/l	5673.44	1.99	2	101.3	70	130	
Ni	60	45	2	2.04	5.38	ug/l	1619.02	3.75	2	102.2	70	130	
Cu	63	45	2	1.93	1.97	ug/l	4399.65	2.15	2	96.3	70	130	
Zn	66	45	2	7.41	6.93	ug/l	1935.73	5.90	8	92.6	70	130	
As	75	74	2	1.11	2.58	ug/l	163.89	3.57	1	111.0	70	130	
Se	78	74	1	4.92	3.05	ug/l	559.35	2.85	5	98.4	70	130	
Sr	88	115	2	2.24	3.82	ug/l	1849.06	2.35	2	112.2	70	130	
Mo	95	115	2	2.01	8.36	ug/l	1624.59	9.73	2	100.5	70	130	
Ag	107	115	2	0.99	4.06	ug/l	2601.42	4.37	1	99.5	70	130	
Cd	111	115	2	0.99	13.26	ug/l	302.24	12.78	1	99.0	70	130	
Sn	118	115	2	8.23	3.16	ug/l	5332.23	3.18	8	102.9	70	130	
Sb	121	115	2	0.83	16.66	ug/l	870.05	12.71	1	82.6	70	130	
Ba	137	159	2	2.23	11.60	ug/l	647.81	11.60	2	111.4	70	130	
Tl	205	209	2	0.42	4.27	ug/l	2608.11	4.11	0.4	103.9	70	130	
(Pb)	206	209	2	0.65	3.92	ug/l	1291.22	3.41	0.6	108.9	70	130	
(Pb)	207	209	2	0.64	5.79	ug/l	1176.76	5.52	0.6	105.9	70	130	
Pb	208	209	2	0.66	1.90	ug/l	5345.03	1.48	0.6	109.4	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20870	0.45	21135	98.7	60	120	
Sc	45	2	149951	1.46	130618	114.8	60	120	
Ge	74	1	62445	0.17	56992	109.6	60	120	
Ge	74	2	18597	1.13	16732	111.1	60	120	
Kr	83	2	34	11.18	23	147.6	-1000	1000	
In	115	2	99409	1.49	90201	110.2	60	120	
Tb	159	2	360401	0.28	337743	106.7	60	120	
Bi	209	2	294464	0.38	286349	102.8	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**MB 460-504338/1-A@2**
Data File Name	**0616CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:17:51-05:00**
Type	**6-CCB**
VialNumber	**2201**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	0.00	1556.88	ug/l	4.56	47.02	0.2	
B	11	6	2	3.05	116.45	ug/l	640.02	6.53	20	
Na	23	45	2	6.65	26.37	ug/l	42965.18	1.23	50	
Mg	24	45	2	2.16	19.03	ug/l	717.82	6.31	50	
Al	27	45	2	1.86	34.04	ug/l	243.34	11.52	10	
K	39	45	2	7.18	479.79	ug/l	24596.39	10.58	50	
Ca	44	45	2	5.55	63.37	ug/l	288.34	5.04	50	
Ti	47	45	2	0.15	48.90	ug/l	10.00	16.70	1	
V	51	45	2	0.05	104.17	ug/l	146.67	24.05	1	
Cr	52	45	2	-0.02	-175.80	ug/l	310.01	9.31	1	
Mn	55	45	2	0.09	33.00	ug/l	98.89	14.03	2	
Fe	56	45	2	3.89	8.32	ug/l	8045.51	2.46	30	
Co	59	45	2	0.02	87.78	ug/l	126.67	22.94	1	
Ni	60	45	2	0.00	-1871.60	ug/l	58.89	11.78	1	
Cu	63	45	2	-0.06	-35.00	ug/l	347.79	5.28	1	
Zn	66	45	2	-0.30	-29.36	ug/l	218.90	3.83	4	
As	75	74	2	0.03	225.18	ug/l	10.56	50.76	0.5	
Se	78	74	1	0.01	295.84	ug/l	7.00	31.20	0.5	
Sr	88	115	2	0.04	72.59	ug/l	43.33	27.74	1	
Mo	95	115	2	0.02	274.14	ug/l	43.34	40.71	1	
Ag	107	115	2	-0.02	-49.73	ug/l	55.56	24.98	1	
Cd	111	115	2	0.04	106.36	ug/l	16.67	39.99	0.5	
Sn	118	115	2	-0.02	-114.33	ug/l	44.45	18.88	4	
Sb	121	115	2	-0.27	-7.70	ug/l	81.12	8.55	0.5	
Ba	137	159	2	0.01	107.00	ug/l	11.11	17.30	1	
Tl	205	209	2	0.02	39.29	ug/l	197.79	11.22	0.2	
Pb	208	209	2	0.03	3.40	ug/l	426.68	1.35	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21242	0.11	21135	100.5	60	120	
Sc	45	2	151049	0.75	130618	115.6	60	120	
Ge	74	1	63451	0.42	56992	111.3	60	120	
Ge	74	2	18374	1.26	16732	109.8	60	120	
Kr	83	2	31	16.37	23	133.3	-1000	1000	
In	115	2	100217	1.16	90201	111.1	60	120	
Tb	159	2	358539	0.26	337743	106.2	60	120	
Bi	209	2	298457	0.37	286349	104.2	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Sample Report

Sample Name	**LCS 460-504338/2-A@2**
Data File Name	**062SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:21:14-05:00**
Type	**Sample**
VialNumber	**2202**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	25.16	50.32	ug/l	900	
Pb	208	209	2	13.14	26.28	ug/l	3600	
Tl	205	209	2	10.09	20.18	ug/l	720	
Ba	137	159	2	26.46	52.91	ug/l	3600	
Sb	121	115	2	13.88	27.75	ug/l	3600	
Sn	118	115	2	25.89	51.78	ug/l	3600	
Cd	111	115	2	11.88	23.76	ug/l	3600	
Ag	107	115	2	11.44	22.87	ug/l	450	
Mo	95	115	2	24.54	49.07	ug/l	3600	
Sr	88	115	2	27.28	54.57	ug/l	3600	
As	75	74	2	25.68	51.36	ug/l	3600	
Zn	66	45	2	117.37	234.75	ug/l	900	
Cu	63	45	2	24.15	48.31	ug/l	450	
Ni	60	45	2	23.68	47.36	ug/l	900	
Co	59	45	2	12.07	24.14	ug/l	1800	
Fe	56	45	2	1282.69	2565.39	ug/l	45000	
Mn	55	45	2	127.39	254.79	ug/l	18000	
Cr	52	45	2	24.50	48.99	ug/l	3600	
V	51	45	2	24.57	49.14	ug/l	3600	
Ti	47	45	2	26.35	52.71	ug/l	3600	
Ca	44	45	2	1310.87	2621.73	ug/l	360000	
K	39	45	2	1294.79	2589.59	ug/l	360000	
Al	27	45	2	1233.93	2467.86	ug/l	36000	
Mg	24	45	2	1202.02	2404.04	ug/l	360000	
Na	23	45	2	1213.69	2427.39	ug/l	360000	
B	11	6	2	320.23	640.46	ug/l	7200	
Be	9	6	2	13.85	27.70	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58221	0.86	56992	102.2	60	120	
Bi	209	2	283379	1.15	286349	99.0	60	120	
Tb	159	2	349316	0.32	337743	103.4	60	120	
In	115	2	94564	1.67	90201	104.8	60	120	
Kr	83	2	32	11.95	23	138.1	-1000	1000	
Ge	74	2	17507	0.91	16732	104.6	60	120	
Sc	45	2	145261	1.76	130618	111.2	60	120	
Li	6	2	18046	1.05	21135	85.4	60	120	

Sample Report

Sample Name	**pds 460-152136-F-1-A@2**
Data File Name	**063SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:24:31-05:00**
Type	**Sample**
VialNumber	**2203**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	9.46	18.91	ug/l	900	
Pb	208	209	2	5.09	10.18	ug/l	3600	
Tl	205	209	2	3.88	7.76	ug/l	720	
Ba	137	159	2	19.39	38.78	ug/l	3600	
Sb	121	115	2	5.74	11.47	ug/l	3600	
Sn	118	115	2	10.36	20.73	ug/l	3600	
Cd	111	115	2	4.83	9.66	ug/l	3600	
Ag	107	115	2	5.43	10.87	ug/l	450	
Mo	95	115	2	9.47	18.93	ug/l	3600	
Sr	88	115	2	325.33	650.67	ug/l	3600	
As	75	74	2	9.92	19.84	ug/l	3600	
Zn	66	45	2	49.45	98.89	ug/l	900	
Cu	63	45	2	10.12	20.24	ug/l	450	
Ni	60	45	2	9.24	18.48	ug/l	900	
Co	59	45	2	4.68	9.37	ug/l	1800	
Fe	56	45	2	556.92	1113.85	ug/l	45000	
Mn	55	45	2	59.89	119.78	ug/l	18000	
Cr	52	45	2	9.71	19.41	ug/l	3600	
V	51	45	2	10.08	20.15	ug/l	3600	
Ti	47	45	2	10.77	21.54	ug/l	3600	
Ca	44	45	2	6052.52	12105.04	ug/l	360000	
K	39	45	2	2117.35	4234.69	ug/l	360000	
Al	27	45	2	498.15	996.29	ug/l	36000	
Mg	24	45	2	1342.43	2684.86	ug/l	360000	
Na	23	45	2	5305.59	10611.19	ug/l	360000	
B	11	6	2	134.15	268.29	ug/l	7200	
Be	9	6	2	5.68	11.36	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58707	1.29	56992	103.0	60	120	
Bi	209	2	282228	0.68	286349	98.6	60	120	
Tb	159	2	348668	0.30	337743	103.2	60	120	
In	115	2	93677	0.89	90201	103.9	60	120	
Kr	83	2	43	27.74	23	185.7	-1000	1000	
Ge	74	2	17638	0.45	16732	105.4	60	120	
Sc	45	2	142886	1.14	130618	109.4	60	120	
Li	6	2	17604	1.43	21135	83.3	60	120	

Sample Report

Sample Name	**460-152136-F-1-C MS@2**
Data File Name	**064SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:27:51-05:00**
Type	**Sample**
VialNumber	**2204**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	25.13	50.26	ug/l	900	
Pb	208	209	2	13.49	26.99	ug/l	3600	
Tl	205	209	2	10.44	20.87	ug/l	720	
Ba	137	159	2	36.02	72.05	ug/l	3600	
Sb	121	115	2	14.45	28.89	ug/l	3600	
Sn	118	115	2	26.34	52.67	ug/l	3600	
Cd	111	115	2	12.75	25.50	ug/l	3600	
Ag	107	115	2	11.74	23.49	ug/l	450	
Mo	95	115	2	24.74	49.48	ug/l	3600	
Sr	88	115	2	341.38	682.77	ug/l	3600	
As	75	74	2	26.05	52.10	ug/l	3600	
Zn	66	45	2	124.14	248.29	ug/l	900	
Cu	63	45	2	24.96	49.92	ug/l	450	
Ni	60	45	2	24.74	49.48	ug/l	900	
Co	59	45	2	12.50	25.01	ug/l	1800	
Fe	56	45	2	1375.92	2751.84	ug/l	45000	
Mn	55	45	2	141.27	282.54	ug/l	18000	
Cr	52	45	2	25.30	50.60	ug/l	3600	
V	51	45	2	25.46	50.92	ug/l	3600	
Ti	47	45	2	27.30	54.60	ug/l	3600	
Ca	44	45	2	6914.03	13828.05	ug/l	360000	
K	39	45	2	2940.80	5881.60	ug/l	360000	
Al	27	45	2	1287.78	2575.56	ug/l	36000	
Mg	24	45	2	2121.78	4243.56	ug/l	360000	
Na	23	45	2	6187.16	12374.32	ug/l	360000	
B	11	6	2	327.51	655.02	ug/l	7200	
Be	9	6	2	14.38	28.76	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58443	1.18	56992	102.5	60	120	
Bi	209	2	278153	0.12	286349	97.1	60	120	
Tb	159	2	349195	0.64	337743	103.4	60	120	
In	115	2	93808	0.24	90201	104.0	60	120	
Kr	83	2	47	32.74	23	200.0	-1000	1000	
Ge	74	2	17654	1.20	16732	105.5	60	120	
Sc	45	2	141998	0.95	130618	108.7	60	120	
Li	6	2	17494	1.34	21135	82.8	60	120	

Sample Report

Sample Name	**460-152136-F-1-B DU@2**
Data File Name	**065SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:31:08-05:00**
Type	**Sample**
VialNumber	**2205**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.08	0.15	ug/l	900	
Pb	208	209	2	0.10	0.20	ug/l	3600	
Tl	205	209	2	0.01	0.03	ug/l	720	
Ba	137	159	2	8.69	17.37	ug/l	3600	
Sb	121	115	2	0.81	1.62	ug/l	3600	
Sn	118	115	2	0.48	0.97	ug/l	3600	
Cd	111	115	2	0.02	0.05	ug/l	3600	
Ag	107	115	2	-0.01	-0.01	ug/l	450	
Mo	95	115	2	0.19	0.37	ug/l	3600	
Sr	88	115	2	307.32	614.64	ug/l	3600	
As	75	74	2	0.23	0.46	ug/l	3600	
Zn	66	45	2	3.21	6.41	ug/l	900	
Cu	63	45	2	0.56	1.13	ug/l	450	
Ni	60	45	2	0.17	0.33	ug/l	900	
Co	59	45	2	0.03	0.07	ug/l	1800	
Fe	56	45	2	56.45	112.91	ug/l	45000	
Mn	55	45	2	9.92	19.83	ug/l	18000	
Cr	52	45	2	0.36	0.71	ug/l	3600	
V	51	45	2	0.75	1.50	ug/l	3600	
Ti	47	45	2	0.41	0.83	ug/l	3600	
Ca	44	45	2	5302.81	10605.62	ug/l	360000	
K	39	45	2	1559.74	3119.49	ug/l	360000	
Al	27	45	2	15.54	31.08	ug/l	36000	
Mg	24	45	2	854.43	1708.87	ug/l	360000	
Na	23	45	2	4737.45	9474.90	ug/l	360000	
B	11	6	2	13.82	27.64	ug/l	7200	
Be	9	6	2	-0.02	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58838	0.97	56992	103.2	60	120	
Bi	209	2	282989	0.53	286349	98.8	60	120	
Tb	159	2	348991	0.53	337743	103.3	60	120	
In	115	2	94120	1.15	90201	104.3	60	120	
Kr	83	2	43	13.32	23	185.7	-1000	1000	
Ge	74	2	17618	1.29	16732	105.3	60	120	
Sc	45	2	143441	0.61	130618	109.8	60	120	
Li	6	2	17490	0.50	21135	82.8	60	120	

Sample Report

Sample Name	**460-152136-F-1-A@2**
Data File Name	**066SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:34:28-05:00**
Type	**Sample**
VialNumber	**2206**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.05	ug/l	900	
Pb	208	209	2	0.09	0.18	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	9.16	18.32	ug/l	3600	
Sb	121	115	2	0.80	1.60	ug/l	3600	
Sn	118	115	2	0.42	0.84	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	-0.02	-0.03	ug/l	450	
Mo	95	115	2	0.12	0.25	ug/l	3600	
Sr	88	115	2	311.25	622.50	ug/l	3600	
As	75	74	2	0.18	0.36	ug/l	3600	
Zn	66	45	2	3.92	7.85	ug/l	900	
Cu	63	45	2	0.57	1.14	ug/l	450	
Ni	60	45	2	0.23	0.46	ug/l	900	
Co	59	45	2	0.03	0.05	ug/l	1800	
Fe	56	45	2	59.49	118.99	ug/l	45000	
Mn	55	45	2	10.34	20.69	ug/l	18000	
Cr	52	45	2	0.29	0.57	ug/l	3600	
V	51	45	2	0.71	1.42	ug/l	3600	
Ti	47	45	2	0.55	1.11	ug/l	3600	
Ca	44	45	2	5524.92	11049.84	ug/l	360000	
K	39	45	2	1616.73	3233.46	ug/l	360000	
Al	27	45	2	16.50	32.99	ug/l	36000	
Mg	24	45	2	875.74	1751.49	ug/l	360000	
Na	23	45	2	4905.45	9810.91	ug/l	360000	
B	11	6	2	13.53	27.06	ug/l	7200	
Be	9	6	2	-0.03	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59126	0.66	56992	103.7	60	120	
Bi	209	2	280743	0.63	286349	98.0	60	120	
Tb	159	2	348812	0.19	337743	103.3	60	120	
In	115	2	94967	0.55	90201	105.3	60	120	
Kr	83	2	27	21.65	23	114.3	-1000	1000	
Ge	74	2	17808	2.08	16732	106.4	60	120	
Sc	45	2	142910	0.31	130618	109.4	60	120	
Li	6	2	17486	1.50	21135	82.7	60	120	

Sample Report

Sample Name	**sd 460-152136-F-1-A@10**
Data File Name	**067SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:37:47-05:00**
Type	**Sample**
VialNumber	**2207**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.08	ug/l	900	
Pb	208	209	2	0.01	0.08	ug/l	3600	
Tl	205	209	2	-0.01	-0.07	ug/l	720	
Ba	137	159	2	1.72	17.22	ug/l	3600	
Sb	121	115	2	-0.07	-0.73	ug/l	3600	
Sn	118	115	2	0.02	0.22	ug/l	3600	
Cd	111	115	2	0.00	-0.04	ug/l	3600	
Ag	107	115	2	-0.04	-0.37	ug/l	450	
Mo	95	115	2	0.01	0.09	ug/l	3600	
Sr	88	115	2	63.79	637.91	ug/l	3600	
As	75	74	2	0.01	0.10	ug/l	3600	
Zn	66	45	2	0.56	5.56	ug/l	900	
Cu	63	45	2	0.04	0.45	ug/l	450	
Ni	60	45	2	0.04	0.35	ug/l	900	
Co	59	45	2	-0.01	-0.10	ug/l	1800	
Fe	56	45	2	12.17	121.67	ug/l	45000	
Mn	55	45	2	2.16	21.58	ug/l	18000	
Cr	52	45	2	0.03	0.27	ug/l	3600	
V	51	45	2	0.20	1.99	ug/l	3600	
Ti	47	45	2	0.15	1.49	ug/l	3600	
Ca	44	45	2	1113.39	11133.90	ug/l	360000	
K	39	45	2	338.16	3381.57	ug/l	360000	
Al	27	45	2	3.50	34.99	ug/l	36000	
Mg	24	45	2	183.05	1830.54	ug/l	360000	
Na	23	45	2	955.31	9553.07	ug/l	360000	
B	11	6	2	5.85	58.49	ug/l	7200	
Be	9	6	2	-0.04	-0.37	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62444	1.47	56992	109.6	60	120	
Bi	209	2	297447	0.86	286349	103.9	60	120	
Tb	159	2	357102	0.54	337743	105.7	60	120	
In	115	2	99633	0.81	90201	110.5	60	120	
Kr	83	2	36	10.83	23	152.4	-1000	1000	
Ge	74	2	18412	0.69	16732	110.0	60	120	
Sc	45	2	150796	1.38	130618	115.4	60	120	
Li	6	2	19559	0.51	21135	92.5	60	120	

Sample Report

Sample Name	**460-152131-H-3-A@2**
Data File Name	**068SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:41:09-05:00**
Type	**Sample**
VialNumber	**2208**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.15	0.30	ug/l	900	
Pb	208	209	2	37.14	74.27	ug/l	3600	
Tl	205	209	2	0.00	0.01	ug/l	720	
Ba	137	159	2	8.32	16.63	ug/l	3600	
Sb	121	115	2	4.73	9.46	ug/l	3600	
Sn	118	115	2	1.12	2.24	ug/l	3600	
Cd	111	115	2	0.17	0.34	ug/l	3600	
Ag	107	115	2	0.03	0.06	ug/l	450	
Mo	95	115	2	4.14	8.28	ug/l	3600	
Sr	88	115	2	55.32	110.64	ug/l	3600	
As	75	74	2	3.55	7.11	ug/l	3600	
Zn	66	45	2	55.27	110.53	ug/l	900	
Cu	63	45	2	47.50	95.01	ug/l	450	
Ni	60	45	2	4.75	9.50	ug/l	900	
Co	59	45	2	3.97	7.94	ug/l	1800	
Fe	56	45	2	1334.08	2668.17	ug/l	45000	
Mn	55	45	2	37.95	75.90	ug/l	18000	
Cr	52	45	2	2.07	4.14	ug/l	3600	
V	51	45	2	8.09	16.18	ug/l	3600	
Ti	47	45	2	18.29	36.58	ug/l	3600	
Ca	44	45	2	20958.25	41916.49	ug/l	360000	
K	39	45	2	5421.31	10842.62	ug/l	360000	
Al	27	45	2	709.50	1419.00	ug/l	36000	
Mg	24	45	2	7941.45	15882.90	ug/l	360000	
Na	23	45	2	31074.23	62148.45	ug/l	360000	
B	11	6	2	23.18	46.36	ug/l	7200	
Be	9	6	2	0.02	0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57873	1.34	56992	101.5	60	120	
Bi	209	2	269844	0.37	286349	94.2	60	120	
Tb	159	2	344653	0.81	337743	102.0	60	120	
In	115	2	92259	1.34	90201	102.3	60	120	
Kr	83	2	41	24.77	23	176.2	-1000	1000	
Ge	74	2	17565	0.84	16732	105.0	60	120	
Sc	45	2	142873	0.47	130618	109.4	60	120	
Li	6	2	17582	1.49	21135	83.2	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**069SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:44:29-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.15	-0.15	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.39	0.39	ug/l	450	
Mo	95	115	2	-0.04	-0.04	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.32	-0.32	ug/l	900	
Cu	63	45	2	0.00	0.00	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	-0.28	-0.28	ug/l	45000	
Mn	55	45	2	0.01	0.01	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.13	0.13	ug/l	3600	
Ti	47	45	2	-0.02	-0.02	ug/l	3600	
Ca	44	45	2	3.44	3.44	ug/l	360000	
K	39	45	2	8.99	8.99	ug/l	360000	
Al	27	45	2	0.16	0.16	ug/l	36000	
Mg	24	45	2	1.56	1.56	ug/l	360000	
Na	23	45	2	10.66	10.66	ug/l	360000	
B	11	6	2	0.08	0.08	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62666	0.13	56992	110.0	60	120	
Bi	209	2	296141	0.56	286349	103.4	60	120	
Tb	159	2	359860	0.76	337743	106.5	60	120	
In	115	2	100121	0.92	90201	111.0	60	120	
Kr	83	2	33	43.59	23	142.9	-1000	1000	
Ge	74	2	18373	1.12	16732	109.8	60	120	
Sc	45	2	150262	0.78	130618	115.0	60	120	
Li	6	2	20239	0.53	21135	95.8	60	120	

Sample Report

Sample Name	**460-152131-H-4-A@2**
Data File Name	**070SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:47:51-05:00**
Type	**Sample**
VialNumber	**2209**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.37	0.74	ug/l	900	
Pb	208	209	2	360.13	720.26	ug/l	3600	
Tl	205	209	2	0.05	0.11	ug/l	720	
Ba	137	159	2	72.82	145.64	ug/l	3600	
Sb	121	115	2	8.22	16.45	ug/l	3600	
Sn	118	115	2	9.36	18.72	ug/l	3600	
Cd	111	115	2	1.45	2.91	ug/l	3600	
Ag	107	115	2	0.28	0.57	ug/l	450	
Mo	95	115	2	5.21	10.42	ug/l	3600	
Sr	88	115	2	110.11	220.21	ug/l	3600	
As	75	74	2	7.07	14.14	ug/l	3600	
Zn	66	45	2	496.00	991.99	ug/l	900	
Cu	63	45	2	353.18	706.35	ug/l	450	
Ni	60	45	2	17.47	34.94	ug/l	900	
Co	59	45	2	9.01	18.01	ug/l	1800	
Fe	56	45	2	11478.04	22956.08	ug/l	45000	
Mn	55	45	2	186.66	373.32	ug/l	18000	
Cr	52	45	2	21.17	42.34	ug/l	3600	
V	51	45	2	23.88	47.75	ug/l	3600	
Ti	47	45	2	200.30	400.59	ug/l	3600	
Ca	44	45	2	39450.24	78900.49	ug/l	360000	
K	39	45	2	5664.71	11329.41	ug/l	360000	
Al	27	45	2	5339.88	10679.76	ug/l	36000	
Mg	24	45	2	14766.61	29533.21	ug/l	360000	
Na	23	45	2	29792.70	59585.40	ug/l	360000	
B	11	6	2	29.15	58.30	ug/l	7200	
Be	9	6	2	0.27	0.55	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56051	0.04	56992	98.3	60	120	
Bi	209	2	265499	0.64	286349	92.7	60	120	
Tb	159	2	343603	0.60	337743	101.7	60	120	
In	115	2	90755	0.57	90201	100.6	60	120	
Kr	83	2	38	30.98	23	161.9	-1000	1000	
Ge	74	2	17349	1.14	16732	103.7	60	120	
Sc	45	2	142064	0.31	130618	108.8	60	120	
Li	6	2	17220	1.25	21135	81.5	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0716CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:51:08-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	52.14	2.33	ug/l	4811.05	0.47	50	104.3	90	110	
B	11	6	2	112.11	2.99	ug/l	3018.10	1.14	100	112.1	90	110	6-CCV Main Failed
Na	23	45	2	5069.13	0.87	ug/l	2583044.65	0.48	5000	101.4	90	110	
Mg	24	45	2	4943.88	0.51	ug/l	1217266.35	0.99	5000	98.9	90	110	
Al	27	45	2	500.12	0.82	ug/l	44778.26	0.93	500	100.0	90	110	
K	39	45	2	5174.49	0.55	ug/l	861249.20	1.07	5000	103.5	90	110	
Ca	44	45	2	5144.26	0.13	ug/l	38489.90	0.71	5000	102.9	90	110	
Ti	47	45	2	50.65	4.29	ug/l	2332.99	3.75	50	101.3	90	110	
V	51	45	2	48.19	0.88	ug/l	70483.16	0.79	50	96.4	90	110	
Cr	52	45	2	48.11	1.40	ug/l	86591.15	0.83	50	96.2	90	110	
Mn	55	45	2	496.61	0.51	ug/l	443562.85	0.47	500	99.3	90	110	
Fe	56	45	2	4864.21	0.96	ug/l	6478969.21	0.21	5000	97.3	90	110	
Co	59	45	2	47.46	0.79	ug/l	132119.96	0.37	50	94.9	90	110	
Ni	60	45	2	46.71	0.36	ug/l	35871.60	0.40	50	93.4	90	110	
Cu	63	45	2	47.03	1.31	ug/l	96919.50	0.65	50	94.1	90	110	
Zn	66	45	2	47.19	2.80	ug/l	10847.44	2.02	50	94.4	90	110	
As	75	74	2	50.93	1.47	ug/l	7071.71	1.61	50	101.9	90	110	
Se	78	74	1	49.22	0.39	ug/l	5438.07	0.31	50	98.4	90	110	
Sr	88	115	2	52.81	1.86	ug/l	42582.94	1.17	50	105.6	90	110	
Mo	95	115	2	49.21	1.18	ug/l	38358.61	0.34	50	98.4	90	110	
Ag	107	115	2	48.77	0.46	ug/l	120057.93	1.04	50	97.5	90	110	
Cd	111	115	2	49.16	2.65	ug/l	14542.92	1.40	50	98.3	90	110	
Sn	118	115	2	50.02	0.53	ug/l	31558.13	1.60	50	100.0	90	110	
Sb	121	115	2	51.73	1.23	ug/l	36742.02	0.45	50	103.5	90	110	
Ba	137	159	2	52.21	1.17	ug/l	14838.96	0.65	50	104.4	90	110	
Tl	205	209	2	10.06	0.63	ug/l	59074.30	0.74	10	100.6	90	110	
Pb	208	209	2	50.81	0.82	ug/l	386405.97	0.80	50	101.6	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19726	1.97	21135	93.3	60	120	
Sc	45	2	150546	0.75	130618	115.3	60	120	
Ge	74	1	61231	0.58	56992	107.4	60	120	
Ge	74	2	18126	0.84	16732	108.3	60	120	
Kr	83	2	48	21.31	23	204.8	-1000	1000	
In	115	2	97722	1.50	90201	108.3	60	120	
Tb	159	2	356185	0.56	337743	105.5	60	120	
Bi	209	2	284159	0.39	286349	99.2	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0726CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:54:25-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-12.16	ug/l	1.33	25.13	0.2	
B	11	6	2	0.83	64.67	ug/l	556.69	1.37	20	
Na	23	45	2	2.22	4.05	ug/l	40739.30	1.35	50	
Mg	24	45	2	1.41	5.58	ug/l	531.13	2.83	50	
Al	27	45	2	0.38	44.76	ug/l	110.56	14.87	10	
K	39	45	2	7.16	288.42	ug/l	24582.00	12.34	50	
Ca	44	45	2	-0.28	-777.70	ug/l	245.01	7.85	50	
Ti	47	45	2	-0.01	-638.27	ug/l	2.78	91.68	1	
V	51	45	2	0.06	7.41	ug/l	163.34	3.53	1	
Cr	52	45	2	-0.04	-39.54	ug/l	272.24	8.69	1	
Mn	55	45	2	0.06	66.07	ug/l	63.34	50.21	2	
Fe	56	45	2	0.61	25.71	ug/l	3666.60	4.97	30	
Co	59	45	2	-0.01	-35.27	ug/l	27.78	42.13	1	
Ni	60	45	2	-0.04	-49.73	ug/l	28.89	54.53	1	
Cu	63	45	2	-0.03	-71.22	ug/l	408.91	10.13	1	
Zn	66	45	2	-0.42	-21.75	ug/l	191.12	11.35	4	
As	75	74	2	0.03	165.45	ug/l	10.00	72.62	0.5	
Se	78	74	1	0.02	83.71	ug/l	7.22	20.81	0.5	
Sr	88	115	2	0.01	88.63	ug/l	17.78	43.33	1	
Mo	95	115	2	0.00	2095.27	ug/l	31.11	52.86	1	
Ag	107	115	2	-0.03	-14.07	ug/l	30.00	38.49	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	0.03	19.25	ug/l	77.78	4.94	4	
Sb	121	115	2	-0.17	-9.19	ug/l	152.23	7.04	0.5	
Ba	137	159	2	0.06	23.50	ug/l	24.45	15.75	1	
Tl	205	209	2	0.00	-41.04	ug/l	58.89	16.33	0.2	
Pb	208	209	2	0.01	46.94	ug/l	294.46	19.52	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20151	0.83	21135	95.3	60	120	
Sc	45	2	151065	1.42	130618	115.7	60	120	
Ge	74	1	62133	0.40	56992	109.0	60	120	
Ge	74	2	18121	1.16	16732	108.3	60	120	
Kr	83	2	37	27.27	23	157.2	-1000	1000	
In	115	2	99945	0.66	90201	110.8	60	120	
Tb	159	2	357422	0.67	337743	105.8	60	120	
Bi	209	2	294034	0.79	286349	102.7	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**073LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T18:57:44-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.39	4.57	ug/l	41.11	4.16	0.4	97.5	70	130	
B	11	6	2	44.26	3.37	ug/l	1555.65	2.27	40	110.7	70	130	
Na	23	45	2	100.87	0.26	ug/l	90147.62	0.38	100	100.9	70	130	
Mg	24	45	2	99.15	1.32	ug/l	24603.77	1.35	100	99.2	70	130	
Al	27	45	2	20.34	3.07	ug/l	1895.14	3.38	20	101.7	70	130	
K	39	45	2	116.79	17.59	ug/l	42288.84	7.45	100	116.8	70	130	
Ca	44	45	2	104.33	7.43	ug/l	1022.27	5.81	100	104.3	70	130	
Ti	47	45	2	2.13	1.03	ug/l	101.11	0.95	2	106.4	70	130	
V	51	45	2	1.96	1.52	ug/l	2940.37	1.89	2	97.8	70	130	
Cr	52	45	2	1.87	1.95	ug/l	3688.32	1.28	2	93.3	70	130	
Mn	55	45	2	4.02	1.02	ug/l	3607.19	0.61	4	100.5	70	130	
Fe	56	45	2	60.74	0.51	ug/l	83759.71	0.71	60	101.2	70	130	
Co	59	45	2	2.01	4.46	ug/l	5667.86	4.80	2	100.7	70	130	
Ni	60	45	2	1.86	8.28	ug/l	1485.67	7.95	2	93.0	70	130	
Cu	63	45	2	1.94	3.11	ug/l	4438.54	3.27	2	96.8	70	130	
Zn	66	45	2	7.74	4.45	ug/l	2019.09	4.13	8	96.8	70	130	
As	75	74	2	1.08	7.31	ug/l	156.67	8.31	1	107.6	70	130	
Se	78	74	1	4.85	2.73	ug/l	550.46	3.79	5	97.1	70	130	
Sr	88	115	2	2.18	1.64	ug/l	1812.40	1.05	2	109.2	70	130	
Mo	95	115	2	1.91	7.38	ug/l	1550.13	6.93	2	95.3	70	130	
Ag	107	115	2	0.99	2.75	ug/l	2612.54	2.15	1	99.2	70	130	
Cd	111	115	2	0.98	5.86	ug/l	301.13	5.46	1	97.9	70	130	
Sn	118	115	2	8.06	2.85	ug/l	5253.30	2.68	8	100.7	70	130	
Sb	121	115	2	0.78	10.32	ug/l	842.27	6.21	1	78.1	70	130	
Ba	137	159	2	2.23	7.35	ug/l	641.15	7.96	2	111.6	70	130	
Tl	205	209	2	0.41	3.14	ug/l	2614.77	3.18	0.4	103.3	70	130	
(Pb)	206	209	2	0.62	2.65	ug/l	1230.10	2.41	0.6	102.7	70	130	
(Pb)	207	209	2	0.62	5.48	ug/l	1152.31	5.38	0.6	102.7	70	130	
Pb	208	209	2	0.61	0.48	ug/l	5054.97	0.60	0.6	102.3	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20314	0.09	21135	96.1	60	120	
Sc	45	2	150619	0.49	130618	115.3	60	120	
Ge	74	1	62294	1.30	56992	109.3	60	120	
Ge	74	2	18319	1.46	16732	109.5	60	120	
Kr	83	2	20	16.65	23	85.7	-1000	1000	
In	115	2	100082	0.74	90201	111.0	60	120	
Tb	159	2	355957	0.75	337743	105.4	60	120	
Bi	209	2	296867	0.15	286349	103.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-151987-C-2-A@2**
Data File Name	**074SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:01:07-05:00**
Type	**Sample**
VialNumber	**2210**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.02	ug/l	900	
Pb	208	209	2	0.01	0.03	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.05	0.10	ug/l	3600	
Sb	121	115	2	0.58	1.16	ug/l	3600	
Sn	118	115	2	0.35	0.69	ug/l	3600	
Cd	111	115	2	0.00	-0.01	ug/l	3600	
Ag	107	115	2	-0.02	-0.05	ug/l	450	
Mo	95	115	2	0.00	0.00	ug/l	3600	
Sr	88	115	2	0.02	0.05	ug/l	3600	
As	75	74	2	0.11	0.22	ug/l	3600	
Zn	66	45	2	0.48	0.96	ug/l	900	
Cu	63	45	2	0.22	0.44	ug/l	450	
Ni	60	45	2	0.05	0.10	ug/l	900	
Co	59	45	2	-0.02	-0.04	ug/l	1800	
Fe	56	45	2	5.56	11.13	ug/l	45000	
Mn	55	45	2	0.06	0.11	ug/l	18000	
Cr	52	45	2	0.08	0.15	ug/l	3600	
V	51	45	2	0.49	0.97	ug/l	3600	
Ti	47	45	2	0.11	0.22	ug/l	3600	
Ca	44	45	2	3.30	6.60	ug/l	360000	
K	39	45	2	11.73	23.46	ug/l	360000	
Al	27	45	2	2.75	5.49	ug/l	36000	
Mg	24	45	2	1.25	2.49	ug/l	360000	
Na	23	45	2	88.84	177.69	ug/l	360000	
B	11	6	2	79.03	158.06	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57665	0.12	56992	101.2	60	120	
Bi	209	2	285895	0.38	286349	99.8	60	120	
Tb	159	2	347926	0.35	337743	103.0	60	120	
In	115	2	95844	1.15	90201	106.3	60	120	
Kr	83	2	16	44.60	23	66.7	-1000	1000	
Ge	74	2	17455	1.37	16732	104.3	60	120	
Sc	45	2	143470	1.27	130618	109.8	60	120	
Li	6	2	17370	0.77	21135	82.2	60	120	

Sample Report

Sample Name	**460-151987-D-3-A@2**
Data File Name	**075SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:04:29-05:00**
Type	**Sample**
VialNumber	**2211**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.12	0.24	ug/l	900	
Pb	208	209	2	3.25	6.50	ug/l	3600	
Tl	205	209	2	0.04	0.07	ug/l	720	
Ba	137	159	2	121.97	243.94	ug/l	3600	
Sb	121	115	2	0.49	0.98	ug/l	3600	
Sn	118	115	2	0.62	1.25	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.01	-0.03	ug/l	450	
Mo	95	115	2	1.56	3.12	ug/l	3600	
Sr	88	115	2	31.29	62.57	ug/l	3600	
As	75	74	2	7.13	14.25	ug/l	3600	
Zn	66	45	2	9.13	18.26	ug/l	900	
Cu	63	45	2	2.79	5.59	ug/l	450	
Ni	60	45	2	3.27	6.55	ug/l	900	
Co	59	45	2	0.44	0.88	ug/l	1800	
Fe	56	45	2	7203.23	14406.47	ug/l	45000	
Mn	55	45	2	191.97	383.94	ug/l	18000	
Cr	52	45	2	3.00	6.01	ug/l	3600	
V	51	45	2	6.32	12.64	ug/l	3600	
Ti	47	45	2	24.80	49.59	ug/l	3600	
Ca	44	45	2	2339.90	4679.81	ug/l	360000	
K	39	45	2	1442.61	2885.22	ug/l	360000	
Al	27	45	2	1125.48	2250.97	ug/l	36000	
Mg	24	45	2	574.67	1149.35	ug/l	360000	
Na	23	45	2	14763.00	29526.00	ug/l	360000	
B	11	6	2	53.90	107.81	ug/l	7200	
Be	9	6	2	0.07	0.13	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57265	1.37	56992	100.5	60	120	
Bi	209	2	275496	0.27	286349	96.2	60	120	
Tb	159	2	345861	0.88	337743	102.4	60	120	
In	115	2	93027	1.26	90201	103.1	60	120	
Kr	83	2	17	69.30	23	71.4	-1000	1000	
Ge	74	2	17281	1.43	16732	103.3	60	120	
Sc	45	2	142374	1.33	130618	109.0	60	120	
Li	6	2	17238	0.54	21135	81.6	60	120	

Sample Report

Sample Name	**460-151987-D-3-A@10**
Data File Name	**076SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:07:49-05:00**
Type	**Sample**
VialNumber	**2212**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.09	ug/l	900	
Pb	208	209	2	0.67	6.74	ug/l	3600	
Tl	205	209	2	0.00	0.04	ug/l	720	
Ba	137	159	2	25.85	258.52	ug/l	3600	
Sb	121	115	2	0.13	1.30	ug/l	3600	
Sn	118	115	2	0.08	0.78	ug/l	3600	
Cd	111	115	2	-0.01	-0.11	ug/l	3600	
Ag	107	115	2	-0.04	-0.39	ug/l	450	
Mo	95	115	2	0.23	2.29	ug/l	3600	
Sr	88	115	2	6.56	65.63	ug/l	3600	
As	75	74	2	1.63	16.25	ug/l	3600	
Zn	66	45	2	2.37	23.67	ug/l	900	
Cu	63	45	2	0.57	5.72	ug/l	450	
Ni	60	45	2	0.60	6.03	ug/l	900	
Co	59	45	2	0.07	0.72	ug/l	1800	
Fe	56	45	2	1569.42	15694.16	ug/l	45000	
Mn	55	45	2	40.71	407.06	ug/l	18000	
Cr	52	45	2	0.61	6.06	ug/l	3600	
V	51	45	2	1.39	13.92	ug/l	3600	
Ti	47	45	2	4.85	48.52	ug/l	3600	
Ca	44	45	2	489.18	4891.79	ug/l	360000	
K	39	45	2	308.46	3084.63	ug/l	360000	
Al	27	45	2	244.07	2440.68	ug/l	36000	
Mg	24	45	2	122.46	1224.64	ug/l	360000	
Na	23	45	2	3279.17	32791.70	ug/l	360000	
B	11	6	2	12.75	127.48	ug/l	7200	
Be	9	6	2	-0.02	-0.23	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	61307	0.78	56992	107.6	60	120	
Bi	209	2	293599	0.95	286349	102.5	60	120	
Tb	159	2	354753	1.00	337743	105.0	60	120	
In	115	2	98760	0.13	90201	109.5	60	120	
Kr	83	2	18	60.28	23	76.2	-1000	1000	
Ge	74	2	18279	1.19	16732	109.2	60	120	
Sc	45	2	148869	1.56	130618	114.0	60	120	
Li	6	2	19267	0.93	21135	91.2	60	120	

Sample Report

Sample Name	**460-151987-D-4-A@2**
Data File Name	**077SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:11:08-05:00**
Type	**Sample**
VialNumber	**2301**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.17	0.34	ug/l	900	
Pb	208	209	2	1.27	2.54	ug/l	3600	
Tl	205	209	2	0.20	0.39	ug/l	720	
Ba	137	159	2	173.11	346.22	ug/l	3600	
Sb	121	115	2	0.61	1.22	ug/l	3600	
Sn	118	115	2	0.42	0.83	ug/l	3600	
Cd	111	115	2	0.03	0.05	ug/l	3600	
Ag	107	115	2	-0.02	-0.04	ug/l	450	
Mo	95	115	2	0.55	1.10	ug/l	3600	
Sr	88	115	2	169.10	338.21	ug/l	3600	
As	75	74	2	10.40	20.79	ug/l	3600	
Zn	66	45	2	5.63	11.26	ug/l	900	
Cu	63	45	2	1.71	3.42	ug/l	450	
Ni	60	45	2	2.07	4.15	ug/l	900	
Co	59	45	2	5.49	10.97	ug/l	1800	
Fe	56	45	2	10933.76	21867.52	ug/l	45000	
Mn	55	45	2	1348.55	2697.10	ug/l	18000	
Cr	52	45	2	2.15	4.30	ug/l	3600	
V	51	45	2	3.22	6.44	ug/l	3600	
Ti	47	45	2	27.35	54.70	ug/l	3600	
Ca	44	45	2	17177.64	34355.29	ug/l	360000	
K	39	45	2	2059.87	4119.74	ug/l	360000	
Al	27	45	2	1130.46	2260.93	ug/l	36000	
Mg	24	45	2	3893.52	7787.04	ug/l	360000	
Na	23	45	2	13815.28	27630.55	ug/l	360000	
B	11	6	2	82.98	165.97	ug/l	7200	
Be	9	6	2	0.03	0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56281	0.70	56992	98.8	60	120	
Bi	209	2	270450	0.30	286349	94.4	60	120	
Tb	159	2	342387	0.48	337743	101.4	60	120	
In	115	2	92060	0.34	90201	102.1	60	120	
Kr	83	2	18	43.33	23	76.2	-1000	1000	
Ge	74	2	17308	1.21	16732	103.4	60	120	
Sc	45	2	140839	0.74	130618	107.8	60	120	
Li	6	2	17036	1.60	21135	80.6	60	120	

Sample Report

Sample Name	**460-151987-D-5-A@2**
Data File Name	**078SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:14:25-05:00**
Type	**Sample**
VialNumber	**2302**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.07	0.14	ug/l	900	
Pb	208	209	2	0.28	0.55	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	70.56	141.12	ug/l	3600	
Sb	121	115	2	0.63	1.27	ug/l	3600	
Sn	118	115	2	0.39	0.78	ug/l	3600	
Cd	111	115	2	0.03	0.06	ug/l	3600	
Ag	107	115	2	-0.02	-0.05	ug/l	450	
Mo	95	115	2	0.04	0.09	ug/l	3600	
Sr	88	115	2	225.38	450.77	ug/l	3600	
As	75	74	2	6.09	12.17	ug/l	3600	
Zn	66	45	2	0.60	1.21	ug/l	900	
Cu	63	45	2	0.26	0.52	ug/l	450	
Ni	60	45	2	0.34	0.68	ug/l	900	
Co	59	45	2	0.14	0.29	ug/l	1800	
Fe	56	45	2	23053.15	46106.31	ug/l	45000	
Mn	55	45	2	36.51	73.02	ug/l	18000	
Cr	52	45	2	0.33	0.65	ug/l	3600	
V	51	45	2	0.89	1.77	ug/l	3600	
Ti	47	45	2	1.82	3.65	ug/l	3600	
Ca	44	45	2	13941.47	27882.95	ug/l	360000	
K	39	45	2	11306.89	22613.78	ug/l	360000	
Al	27	45	2	87.04	174.07	ug/l	36000	
Mg	24	45	2	21221.51	42443.01	ug/l	360000	
Na	23	45	2	197973.90	395947.81	ug/l	360000	
B	11	6	2	188.18	376.36	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	51498	0.36	56992	90.4	60	120	
Bi	209	2	247178	0.30	286349	86.3	60	120	
Tb	159	2	327091	0.49	337743	96.8	60	120	
In	115	2	85651	1.76	90201	95.0	60	120	
Kr	83	2	22	70.88	23	95.2	-1000	1000	
Ge	74	2	16523	0.65	16732	98.8	60	120	
Sc	45	2	137372	1.73	130618	105.2	60	120	
Li	6	2	16154	0.46	21135	76.4	60	120	

Sample Report

Sample Name	**460-151987-D-6-A@2**
Data File Name	**079SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:17:40-05:00**
Type	**Sample**
VialNumber	**2303**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.11	ug/l	900	
Pb	208	209	2	0.74	1.48	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	79.97	159.94	ug/l	3600	
Sb	121	115	2	0.55	1.10	ug/l	3600	
Sn	118	115	2	0.48	0.97	ug/l	3600	
Cd	111	115	2	0.07	0.13	ug/l	3600	
Ag	107	115	2	-0.02	-0.04	ug/l	450	
Mo	95	115	2	0.12	0.24	ug/l	3600	
Sr	88	115	2	249.06	498.11	ug/l	3600	
As	75	74	2	6.77	13.53	ug/l	3600	
Zn	66	45	2	1.24	2.48	ug/l	900	
Cu	63	45	2	0.60	1.21	ug/l	450	
Ni	60	45	2	0.57	1.14	ug/l	900	
Co	59	45	2	0.15	0.30	ug/l	1800	
Fe	56	45	2	23457.11	46914.22	ug/l	45000	
Mn	55	45	2	34.84	69.68	ug/l	18000	
Cr	52	45	2	0.52	1.03	ug/l	3600	
V	51	45	2	1.22	2.44	ug/l	3600	
Ti	47	45	2	4.48	8.95	ug/l	3600	
Ca	44	45	2	15256.61	30513.23	ug/l	360000	
K	39	45	2	12344.30	24688.60	ug/l	360000	
Al	27	45	2	175.23	350.46	ug/l	36000	
Mg	24	45	2	24103.95	48207.90	ug/l	360000	
Na	23	45	2	224242.25	448484.51	ug/l	360000	
B	11	6	2	201.36	402.73	ug/l	7200	
Be	9	6	2	-0.02	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	51022	0.32	56992	89.5	60	120	
Bi	209	2	244195	0.68	286349	85.3	60	120	
Tb	159	2	329547	0.44	337743	97.6	60	120	
In	115	2	86395	1.78	90201	95.8	60	120	
Kr	83	2	21	32.88	23	90.5	-1000	1000	
Ge	74	2	16392	2.25	16732	98.0	60	120	
Sc	45	2	137327	2.35	130618	105.1	60	120	
Li	6	2	16485	1.99	21135	78.0	60	120	

Sample Report

Sample Name	**460-151987-D-7-A@2**
Data File Name	**080SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:20:57-05:00**
Type	**Sample**
VialNumber	**2304**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.07	0.13	ug/l	900	
Pb	208	209	2	0.31	0.61	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	25.91	51.83	ug/l	3600	
Sb	121	115	2	0.75	1.50	ug/l	3600	
Sn	118	115	2	0.39	0.77	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.03	-0.05	ug/l	450	
Mo	95	115	2	0.85	1.71	ug/l	3600	
Sr	88	115	2	168.24	336.47	ug/l	3600	
As	75	74	2	0.39	0.78	ug/l	3600	
Zn	66	45	2	6.37	12.74	ug/l	900	
Cu	63	45	2	0.71	1.42	ug/l	450	
Ni	60	45	2	0.25	0.50	ug/l	900	
Co	59	45	2	0.07	0.15	ug/l	1800	
Fe	56	45	2	623.54	1247.08	ug/l	45000	
Mn	55	45	2	2.14	4.28	ug/l	18000	
Cr	52	45	2	0.37	0.73	ug/l	3600	
V	51	45	2	0.74	1.48	ug/l	3600	
Ti	47	45	2	2.69	5.38	ug/l	3600	
Ca	44	45	2	26549.46	53098.92	ug/l	360000	
K	39	45	2	942.66	1885.31	ug/l	360000	
Al	27	45	2	151.58	303.16	ug/l	36000	
Mg	24	45	2	2687.66	5375.32	ug/l	360000	
Na	23	45	2	2666.72	5333.43	ug/l	360000	
B	11	6	2	31.75	63.49	ug/l	7200	
Be	9	6	2	-0.01	-0.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57354	1.11	56992	100.6	60	120	
Bi	209	2	277080	0.45	286349	96.8	60	120	
Tb	159	2	347462	0.45	337743	102.9	60	120	
In	115	2	94290	1.95	90201	104.5	60	120	
Kr	83	2	26	52.73	23	109.5	-1000	1000	
Ge	74	2	17447	3.05	16732	104.3	60	120	
Sc	45	2	142173	1.33	130618	108.8	60	120	
Li	6	2	17214	1.13	21135	81.4	60	120	

Sample Report

Sample Name	**460-151987-D-8-A@2**
Data File Name	**081SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:24:15-05:00**
Type	**Sample**
VialNumber	**2305**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.57	1.14	ug/l	900	
Pb	208	209	2	31.15	62.30	ug/l	3600	
Tl	205	209	2	0.30	0.61	ug/l	720	
Ba	137	159	2	51.14	102.29	ug/l	3600	
Sb	121	115	2	1.13	2.25	ug/l	3600	
Sn	118	115	2	2.00	4.00	ug/l	3600	
Cd	111	115	2	0.00	-0.01	ug/l	3600	
Ag	107	115	2	0.08	0.15	ug/l	450	
Mo	95	115	2	1.41	2.82	ug/l	3600	
Sr	88	115	2	197.60	395.19	ug/l	3600	
As	75	74	2	26.70	53.40	ug/l	3600	
Zn	66	45	2	19.16	38.32	ug/l	900	
Cu	63	45	2	11.08	22.16	ug/l	450	
Ni	60	45	2	3.80	7.60	ug/l	900	
Co	59	45	2	1.52	3.04	ug/l	1800	
Fe	56	45	2	54733.06	109466.12	ug/l	45000	fail
Mn	55	45	2	121.05	242.10	ug/l	18000	
Cr	52	45	2	8.04	16.08	ug/l	3600	
V	51	45	2	15.15	30.29	ug/l	3600	
Ti	47	45	2	149.23	298.47	ug/l	3600	
Ca	44	45	2	7397.55	14795.09	ug/l	360000	
K	39	45	2	7556.43	15112.85	ug/l	360000	
Al	27	45	2	3844.98	7689.96	ug/l	36000	
Mg	24	45	2	7558.80	15117.61	ug/l	360000	
Na	23	45	2	53758.37	107516.75	ug/l	360000	
B	11	6	2	116.55	233.09	ug/l	7200	
Be	9	6	2	0.17	0.35	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	54385	0.48	56992	95.4	60	120	
Bi	209	2	263860	1.24	286349	92.1	60	120	
Tb	159	2	339870	0.73	337743	100.6	60	120	
In	115	2	90600	1.26	90201	100.4	60	120	
Kr	83	2	17	39.99	23	71.4	-1000	1000	
Ge	74	2	17256	1.93	16732	103.1	60	120	
Sc	45	2	141142	0.63	130618	108.1	60	120	
Li	6	2	16182	0.53	21135	76.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**082SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:27:35-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.00	0.00	ug/l	3600	
Sb	121	115	2	-0.14	-0.14	ug/l	3600	
Sn	118	115	2	0.01	0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.38	0.38	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.03	0.03	ug/l	3600	
As	75	74	2	0.00	0.00	ug/l	3600	
Zn	66	45	2	-0.21	-0.21	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	6.20	6.20	ug/l	45000	
Mn	55	45	2	0.02	0.02	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.04	0.04	ug/l	3600	
Ti	47	45	2	0.10	0.10	ug/l	3600	
Ca	44	45	2	5.37	5.37	ug/l	360000	
K	39	45	2	8.25	8.25	ug/l	360000	
Al	27	45	2	0.28	0.28	ug/l	36000	
Mg	24	45	2	1.61	1.61	ug/l	360000	
Na	23	45	2	21.07	21.07	ug/l	360000	
B	11	6	2	2.14	2.14	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60795	1.16	56992	106.7	60	120	
Bi	209	2	298174	0.70	286349	104.1	60	120	
Tb	159	2	358227	0.29	337743	106.1	60	120	
In	115	2	99851	1.07	90201	110.7	60	120	
Kr	83	2	27	81.96	23	114.3	-1000	1000	
Ge	74	2	18159	0.53	16732	108.5	60	120	
Sc	45	2	149784	1.00	130618	114.7	60	120	
Li	6	2	18457	1.49	21135	87.3	60	120	

Sample Report

Sample Name	**460-151987-D-8-A@20**
Data File Name	**083SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:30:56-05:00**
Type	**Sample**
VialNumber	**2306**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.03	0.55	ug/l	900	
Pb	208	209	2	3.17	63.42	ug/l	3600	
Tl	205	209	2	0.03	0.56	ug/l	720	
Ba	137	159	2	5.33	106.63	ug/l	3600	
Sb	121	115	2	-0.16	-3.27	ug/l	3600	
Sn	118	115	2	0.14	2.82	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.03	-0.60	ug/l	450	
Mo	95	115	2	0.11	2.19	ug/l	3600	
Sr	88	115	2	19.78	395.51	ug/l	3600	
As	75	74	2	3.05	60.91	ug/l	3600	
Zn	66	45	2	1.72	34.40	ug/l	900	
Cu	63	45	2	1.15	23.03	ug/l	450	
Ni	60	45	2	0.38	7.68	ug/l	900	
Co	59	45	2	0.15	3.02	ug/l	1800	
Fe	56	45	2	5813.75	116274.91	ug/l	45000	
Mn	55	45	2	12.63	252.70	ug/l	18000	
Cr	52	45	2	0.81	16.12	ug/l	3600	
V	51	45	2	1.55	31.05	ug/l	3600	
Ti	47	45	2	14.50	289.97	ug/l	3600	
Ca	44	45	2	768.31	15366.21	ug/l	360000	
K	39	45	2	806.72	16134.46	ug/l	360000	
Al	27	45	2	405.66	8113.15	ug/l	36000	
Mg	24	45	2	775.82	15516.50	ug/l	360000	
Na	23	45	2	5842.04	116840.87	ug/l	360000	
B	11	6	2	12.81	256.14	ug/l	7200	
Be	9	6	2	-0.02	-0.44	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	61089	0.49	56992	107.2	60	120	
Bi	209	2	289803	0.54	286349	101.2	60	120	
Tb	159	2	357599	0.38	337743	105.9	60	120	
In	115	2	99908	0.90	90201	110.8	60	120	
Kr	83	2	28	34.63	23	119.0	-1000	1000	
Ge	74	2	18439	1.25	16732	110.2	60	120	
Sc	45	2	152253	0.96	130618	116.6	60	120	
Li	6	2	19261	0.46	21135	91.1	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0846CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:34:12-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	52.77	2.17	ug/l	4749.92	1.16	50	105.5	90	110	
B	11	6	2	108.56	1.42	ug/l	2867.52	1.23	100	108.6	90	110	
Na	23	45	2	5026.89	1.55	ug/l	2581641.04	1.19	5000	100.5	90	110	
Mg	24	45	2	4939.79	1.87	ug/l	1225523.00	0.73	5000	98.8	90	110	
Al	27	45	2	495.00	1.69	ug/l	44661.22	1.33	500	99.0	90	110	
K	39	45	2	5178.22	2.00	ug/l	868420.07	1.03	5000	103.6	90	110	
Ca	44	45	2	5096.82	1.39	ug/l	38432.56	1.59	5000	101.9	90	110	
Ti	47	45	2	51.98	1.84	ug/l	2413.00	1.69	50	104.0	90	110	
V	51	45	2	48.11	1.54	ug/l	70916.82	1.17	50	96.2	90	110	
Cr	52	45	2	48.62	2.12	ug/l	88161.48	0.58	50	97.2	90	110	
Mn	55	45	2	493.78	1.64	ug/l	444410.87	0.39	500	98.8	90	110	
Fe	56	45	2	4852.43	1.63	ug/l	6512976.92	0.49	5000	97.0	90	110	
Co	59	45	2	47.32	1.27	ug/l	132751.31	0.72	50	94.6	90	110	
Ni	60	45	2	45.82	0.46	ug/l	35470.77	2.17	50	91.6	90	110	
Cu	63	45	2	46.96	1.77	ug/l	97517.29	0.97	50	93.9	90	110	
Zn	66	45	2	47.45	4.69	ug/l	10986.40	2.94	50	94.9	90	110	
As	75	74	2	50.12	2.43	ug/l	6986.12	1.59	50	100.2	90	110	
Se	78	74	1	49.62	1.05	ug/l	5452.97	0.43	50	99.2	90	110	
Sr	88	115	2	52.40	1.28	ug/l	42323.29	1.39	50	104.8	90	110	
Mo	95	115	2	48.99	2.28	ug/l	38252.95	1.05	50	98.0	90	110	
Ag	107	115	2	48.26	0.87	ug/l	118986.70	0.54	50	96.5	90	110	
Cd	111	115	2	47.73	3.21	ug/l	14144.80	2.62	50	95.5	90	110	
Sn	118	115	2	49.21	0.36	ug/l	31100.49	1.47	50	98.4	90	110	
Sb	121	115	2	51.43	2.01	ug/l	36599.46	2.64	50	102.9	90	110	
Ba	137	159	2	52.03	0.68	ug/l	14686.57	1.74	50	104.1	90	110	
Tl	205	209	2	10.10	0.91	ug/l	59142.37	0.81	10	101.0	90	110	
Pb	208	209	2	50.75	1.41	ug/l	384835.85	0.45	50	101.5	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19240	1.08	21135	91.0	60	120	
Sc	45	2	151727	1.93	130618	116.2	60	120	
Ge	74	1	60903	0.86	56992	106.9	60	120	
Ge	74	2	18197	0.88	16732	108.8	60	120	
Kr	83	2	26	7.55	23	109.5	-1000	1000	
In	115	2	97886	1.26	90201	108.5	60	120	
Tb	159	2	353704	1.06	337743	104.7	60	120	
Bi	209	2	283361	0.98	286349	99.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0856CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:37:28-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-28.36	ug/l	1.45	47.87	0.2	
B	11	6	2	2.71	18.08	ug/l	583.36	1.78	20	
Na	23	45	2	5.38	8.74	ug/l	43080.94	0.41	50	
Mg	24	45	2	0.85	14.32	ug/l	400.02	7.64	50	
Al	27	45	2	0.15	140.52	ug/l	91.67	21.44	10	
K	39	45	2	4.81	406.95	ug/l	24651.03	12.83	50	
Ca	44	45	2	-1.94	-209.36	ug/l	236.67	13.38	50	
Ti	47	45	2	-0.02	-94.73	ug/l	2.22	43.11	1	
V	51	45	2	0.06	24.74	ug/l	164.45	12.38	1	
Cr	52	45	2	-0.05	-33.49	ug/l	247.79	13.06	1	
Mn	55	45	2	0.06	20.82	ug/l	72.23	16.21	2	
Fe	56	45	2	0.80	22.08	ug/l	3984.48	5.78	30	
Co	59	45	2	-0.01	-15.31	ug/l	28.89	17.63	1	
Ni	60	45	2	-0.05	-27.09	ug/l	23.33	42.86	1	
Cu	63	45	2	-0.04	-36.48	ug/l	392.24	7.23	1	
Zn	66	45	2	-0.47	-22.33	ug/l	183.34	12.73	4	
As	75	74	2	0.05	27.18	ug/l	12.22	15.73	0.5	
Se	78	74	1	0.02	91.47	ug/l	7.67	26.48	0.5	
Sr	88	115	2	0.01	85.72	ug/l	18.89	44.42	1	
Mo	95	115	2	0.01	46.24	ug/l	41.11	12.39	1	
Ag	107	115	2	-0.04	-7.31	ug/l	17.78	39.03	1	
Cd	111	115	2	0.00	-316.21	ug/l	3.33	100.05	0.5	
Sn	118	115	2	0.01	202.29	ug/l	61.12	11.35	4	
Sb	121	115	2	-0.22	-36.85	ug/l	117.78	48.72	0.5	
Ba	137	159	2	0.10	37.99	ug/l	35.55	30.14	1	
Tl	205	209	2	0.00	-47.11	ug/l	72.23	7.05	0.2	
Pb	208	209	2	0.00	-454.53	ug/l	173.34	10.18	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19608	1.65	21135	92.8	60	120	
Sc	45	2	153744	0.56	130618	117.7	60	120	
Ge	74	1	61837	1.14	56992	108.5	60	120	
Ge	74	2	18523	1.70	16732	110.7	60	120	
Kr	83	2	51	3.77	23	219.1	-1000	1000	
In	115	2	99341	0.61	90201	110.1	60	120	
Tb	159	2	352968	0.53	337743	104.5	60	120	
Bi	209	2	295175	0.22	286349	103.1	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**086LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:40:48-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.40	4.93	ug/l	40.89	3.30	0.4	99.3	70	130	
B	11	6	2	46.30	4.41	ug/l	1567.88	2.93	40	115.7	70	130	
Na	23	45	2	105.24	0.25	ug/l	92843.70	1.35	100	105.2	70	130	
Mg	24	45	2	99.42	1.32	ug/l	24801.89	0.79	100	99.4	70	130	
Al	27	45	2	20.21	2.43	ug/l	1894.03	2.00	20	101.1	70	130	
K	39	45	2	116.67	17.32	ug/l	42481.47	6.42	100	116.7	70	130	
Ca	44	45	2	98.45	4.37	ug/l	983.94	4.08	100	98.4	70	130	
Ti	47	45	2	2.28	6.52	ug/l	108.89	7.55	2	114.2	70	130	
V	51	45	2	1.93	1.54	ug/l	2915.91	2.22	2	96.5	70	130	
Cr	52	45	2	1.92	3.26	ug/l	3799.46	4.23	2	95.8	70	130	
Mn	55	45	2	4.15	3.64	ug/l	3738.34	2.61	4	103.6	70	130	
Fe	56	45	2	60.45	1.34	ug/l	83818.46	1.14	60	100.7	70	130	
Co	59	45	2	1.97	2.97	ug/l	5572.28	1.54	2	98.4	70	130	
Ni	60	45	2	1.94	3.02	ug/l	1557.91	3.81	2	97.1	70	130	
Cu	63	45	2	1.84	2.98	ug/l	4259.60	3.09	2	91.9	70	130	
Zn	66	45	2	7.62	6.55	ug/l	2001.31	4.17	8	95.2	70	130	
As	75	74	2	1.11	10.42	ug/l	164.45	9.14	1	111.2	70	130	
Se	78	74	1	4.88	1.74	ug/l	551.45	2.57	5	97.6	70	130	
Sr	88	115	2	2.08	4.39	ug/l	1724.60	4.51	2	104.1	70	130	
Mo	95	115	2	1.94	2.51	ug/l	1572.35	2.41	2	96.8	70	130	
Ag	107	115	2	0.96	3.71	ug/l	2519.18	4.39	1	95.7	70	130	
Cd	111	115	2	0.84	0.65	ug/l	258.90	1.49	1	84.2	70	130	
Sn	118	115	2	8.03	0.67	ug/l	5225.52	0.42	8	100.3	70	130	
Sb	121	115	2	0.78	11.20	ug/l	837.83	6.85	1	77.7	70	130	
Ba	137	159	2	2.11	7.03	ug/l	607.81	7.16	2	105.4	70	130	
Tl	205	209	2	0.39	1.84	ug/l	2459.19	2.03	0.4	97.4	70	130	
(Pb)	206	209	2	0.60	3.05	ug/l	1194.54	2.71	0.6	100.0	70	130	
(Pb)	207	209	2	0.58	9.03	ug/l	1084.52	7.38	0.6	96.9	70	130	
Pb	208	209	2	0.59	3.66	ug/l	4838.27	2.68	0.6	98.2	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19879	1.41	21135	94.1	60	120	
Sc	45	2	151445	1.45	130618	115.9	60	120	
Ge	74	1	62062	1.26	56992	108.9	60	120	
Ge	74	2	18655	0.95	16732	111.5	60	120	
Kr	83	2	99	23.91	23	423.8	-1000	1000	
In	115	2	99896	0.86	90201	110.7	60	120	
Tb	159	2	357018	0.44	337743	105.7	60	120	
Bi	209	2	295696	1.28	286349	103.3	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-151987-D-9-A@2**
Data File Name	**087SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:44:08-05:00**
Type	**Sample**
VialNumber	**2307**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.11	0.22	ug/l	900	
Pb	208	209	2	0.11	0.22	ug/l	3600	
Tl	205	209	2	0.03	0.05	ug/l	720	
Ba	137	159	2	60.30	120.59	ug/l	3600	
Sb	121	115	2	0.44	0.88	ug/l	3600	
Sn	118	115	2	0.35	0.70	ug/l	3600	
Cd	111	115	2	0.06	0.11	ug/l	3600	
Ag	107	115	2	-0.03	-0.06	ug/l	450	
Mo	95	115	2	0.00	0.00	ug/l	3600	
Sr	88	115	2	71.52	143.04	ug/l	3600	
As	75	74	2	2.26	4.52	ug/l	3600	
Zn	66	45	2	1.24	2.48	ug/l	900	
Cu	63	45	2	0.23	0.47	ug/l	450	
Ni	60	45	2	1.07	2.13	ug/l	900	
Co	59	45	2	0.37	0.73	ug/l	1800	
Fe	56	45	2	817.95	1635.90	ug/l	45000	
Mn	55	45	2	28.26	56.53	ug/l	18000	
Cr	52	45	2	0.31	0.62	ug/l	3600	
V	51	45	2	0.56	1.12	ug/l	3600	
Ti	47	45	2	3.15	6.31	ug/l	3600	
Ca	44	45	2	5438.58	10877.16	ug/l	360000	
K	39	45	2	1753.57	3507.14	ug/l	360000	
Al	27	45	2	83.64	167.29	ug/l	36000	
Mg	24	45	2	2748.34	5496.68	ug/l	360000	
Na	23	45	2	20069.92	40139.84	ug/l	360000	
B	11	6	2	242.79	485.57	ug/l	7200	
Be	9	6	2	-0.01	-0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56818	0.42	56992	99.7	60	120	
Bi	209	2	271967	0.76	286349	95.0	60	120	
Tb	159	2	349013	0.50	337743	103.3	60	120	
In	115	2	93212	0.98	90201	103.3	60	120	
Kr	83	2	166	24.27	23	709.6	-1000	1000	
Ge	74	2	17660	0.99	16732	105.5	60	120	
Sc	45	2	141524	1.90	130618	108.4	60	120	
Li	6	2	16531	0.79	21135	78.2	60	120	

Sample Report

Sample Name	**460-151987-D-10-A@2**
Data File Name	**088SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:51:46-05:00**
Type	**Sample**
VialNumber	**2308**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.10	ug/l	900	
Pb	208	209	2	0.33	0.65	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	28.64	57.27	ug/l	3600	
Sb	121	115	2	0.57	1.13	ug/l	3600	
Sn	118	115	2	0.36	0.73	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	-0.03	-0.07	ug/l	450	
Mo	95	115	2	0.61	1.23	ug/l	3600	
Sr	88	115	2	89.23	178.45	ug/l	3600	
As	75	74	2	0.34	0.68	ug/l	3600	
Zn	66	45	2	5.93	11.85	ug/l	900	
Cu	63	45	2	2.41	4.82	ug/l	450	
Ni	60	45	2	2.36	4.71	ug/l	900	
Co	59	45	2	0.11	0.22	ug/l	1800	
Fe	56	45	2	271.48	542.95	ug/l	45000	
Mn	55	45	2	9.13	18.27	ug/l	18000	
Cr	52	45	2	0.54	1.09	ug/l	3600	
V	51	45	2	0.86	1.71	ug/l	3600	
Ti	47	45	2	3.27	6.54	ug/l	3600	
Ca	44	45	2	13398.16	26796.31	ug/l	360000	
K	39	45	2	1220.33	2440.67	ug/l	360000	
Al	27	45	2	98.33	196.67	ug/l	36000	
Mg	24	45	2	1293.54	2587.09	ug/l	360000	
Na	23	45	2	1662.11	3324.22	ug/l	360000	
B	11	6	2	18.10	36.20	ug/l	7200	
Be	9	6	2	-0.02	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57702	0.26	56992	101.2	60	120	
Bi	209	2	280387	0.68	286349	97.9	60	120	
Tb	159	2	348270	0.32	337743	103.1	60	120	
In	115	2	94807	0.53	90201	105.1	60	120	
Kr	83	2	58	18.54	23	247.6	-1000	1000	
Ge	74	2	17685	2.56	16732	105.7	60	120	
Sc	45	2	144191	0.54	130618	110.4	60	120	
Li	6	2	16894	0.70	21135	79.9	60	120	

Sample Report

Sample Name	**460-151987-D-11-A@2**
Data File Name	**089SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:55:08-05:00**
Type	**Sample**
VialNumber	**2309**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.10	ug/l	900	
Pb	208	209	2	1.66	3.33	ug/l	3600	
Tl	205	209	2	0.02	0.03	ug/l	720	
Ba	137	159	2	31.84	63.68	ug/l	3600	
Sb	121	115	2	0.55	1.10	ug/l	3600	
Sn	118	115	2	0.39	0.77	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	-0.02	-0.04	ug/l	450	
Mo	95	115	2	0.29	0.57	ug/l	3600	
Sr	88	115	2	82.17	164.33	ug/l	3600	
As	75	74	2	0.66	1.31	ug/l	3600	
Zn	66	45	2	25.64	51.27	ug/l	900	
Cu	63	45	2	1.66	3.31	ug/l	450	
Ni	60	45	2	2.26	4.51	ug/l	900	
Co	59	45	2	0.41	0.83	ug/l	1800	
Fe	56	45	2	1004.82	2009.63	ug/l	45000	
Mn	55	45	2	18.73	37.45	ug/l	18000	
Cr	52	45	2	2.84	5.69	ug/l	3600	
V	51	45	2	2.00	3.99	ug/l	3600	
Ti	47	45	2	15.59	31.18	ug/l	3600	
Ca	44	45	2	15809.14	31618.28	ug/l	360000	
K	39	45	2	1269.56	2539.12	ug/l	360000	
Al	27	45	2	565.90	1131.80	ug/l	36000	
Mg	24	45	2	1229.96	2459.92	ug/l	360000	
Na	23	45	2	665.89	1331.78	ug/l	360000	
B	11	6	2	11.49	22.99	ug/l	7200	
Be	9	6	2	0.03	0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57598	0.92	56992	101.1	60	120	
Bi	209	2	279804	0.52	286349	97.7	60	120	
Tb	159	2	349552	0.51	337743	103.5	60	120	
In	115	2	94574	1.57	90201	104.8	60	120	
Kr	83	2	42	16.43	23	181.0	-1000	1000	
Ge	74	2	17519	0.32	16732	104.7	60	120	
Sc	45	2	143270	0.41	130618	109.7	60	120	
Li	6	2	16656	0.88	21135	78.8	60	120	

Sample Report

Sample Name	**460-151987-D-12-A@2**
Data File Name	**090SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T19:58:26-05:00**
Type	**Sample**
VialNumber	**2310**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	0.38	ug/l	900	
Pb	208	209	2	0.34	0.69	ug/l	3600	
Tl	205	209	2	0.00	0.01	ug/l	720	
Ba	137	159	2	4.97	9.94	ug/l	3600	
Sb	121	115	2	0.82	1.64	ug/l	3600	
Sn	118	115	2	0.33	0.66	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.03	-0.05	ug/l	450	
Mo	95	115	2	1.25	2.50	ug/l	3600	
Sr	88	115	2	73.50	147.00	ug/l	3600	
As	75	74	2	0.43	0.87	ug/l	3600	
Zn	66	45	2	5.73	11.46	ug/l	900	
Cu	63	45	2	0.85	1.69	ug/l	450	
Ni	60	45	2	0.80	1.60	ug/l	900	
Co	59	45	2	0.03	0.07	ug/l	1800	
Fe	56	45	2	128.70	257.39	ug/l	45000	
Mn	55	45	2	1.65	3.30	ug/l	18000	
Cr	52	45	2	0.91	1.82	ug/l	3600	
V	51	45	2	0.87	1.74	ug/l	3600	
Ti	47	45	2	2.05	4.10	ug/l	3600	
Ca	44	45	2	4585.42	9170.84	ug/l	360000	
K	39	45	2	10222.96	20445.92	ug/l	360000	
Al	27	45	2	59.59	119.19	ug/l	36000	
Mg	24	45	2	12896.25	25792.50	ug/l	360000	
Na	23	45	2	184655.97	369311.94	ug/l	360000	
B	11	6	2	404.94	809.87	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	53324	0.10	56992	93.6	60	120	
Bi	209	2	249183	0.57	286349	87.0	60	120	
Tb	159	2	328274	0.72	337743	97.2	60	120	
In	115	2	87153	0.94	90201	96.6	60	120	
Kr	83	2	50	58.11	23	214.3	-1000	1000	
Ge	74	2	16799	0.75	16732	100.4	60	120	
Sc	45	2	139152	1.65	130618	106.5	60	120	
Li	6	2	16031	1.22	21135	75.9	60	120	

Sample Report

Sample Name	**460-151987-D-13-A@2**
Data File Name	**091SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:01:43-05:00**
Type	**Sample**
VialNumber	**2311**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.22	0.44	ug/l	900	
Pb	208	209	2	2.07	4.15	ug/l	3600	
Tl	205	209	2	0.16	0.32	ug/l	720	
Ba	137	159	2	134.71	269.42	ug/l	3600	
Sb	121	115	2	0.78	1.56	ug/l	3600	
Sn	118	115	2	0.51	1.02	ug/l	3600	
Cd	111	115	2	0.35	0.69	ug/l	3600	
Ag	107	115	2	-0.02	-0.04	ug/l	450	
Mo	95	115	2	0.45	0.90	ug/l	3600	
Sr	88	115	2	742.87	1485.74	ug/l	3600	
As	75	74	2	2.12	4.25	ug/l	3600	
Zn	66	45	2	6.40	12.81	ug/l	900	
Cu	63	45	2	2.31	4.63	ug/l	450	
Ni	60	45	2	2.90	5.79	ug/l	900	
Co	59	45	2	0.98	1.96	ug/l	1800	
Fe	56	45	2	8128.93	16257.86	ug/l	45000	
Mn	55	45	2	1948.27	3896.54	ug/l	18000	
Cr	52	45	2	3.13	6.27	ug/l	3600	
V	51	45	2	6.12	12.25	ug/l	3600	
Ti	47	45	2	72.39	144.78	ug/l	3600	
Ca	44	45	2	50397.40	100794.81	ug/l	360000	
K	39	45	2	26466.45	52932.89	ug/l	360000	
Al	27	45	2	2594.79	5189.59	ug/l	36000	
Mg	24	45	2	88355.88	176711.77	ug/l	360000	
Na	23	45	2	843778.54	1687557.08	ug/l	360000	fail
B	11	6	2	461.87	923.74	ug/l	7200	
Be	9	6	2	0.14	0.27	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	45383	1.20	56992	79.6	60	120	
Bi	209	2	216595	0.38	286349	75.6	60	120	
Tb	159	2	302444	0.48	337743	89.5	60	120	
In	115	2	79502	0.33	90201	88.1	60	120	
Kr	83	2	48	28.20	23	204.8	-1000	1000	
Ge	74	2	15313	2.43	16732	91.5	60	120	
Sc	45	2	132675	1.54	130618	101.6	60	120	
Li	6	2	15318	0.68	21135	72.5	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**092SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:05:03-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.00	0.00	ug/l	3600	
Sb	121	115	2	-0.17	-0.17	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.33	0.33	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.08	0.08	ug/l	3600	
As	75	74	2	0.01	0.01	ug/l	3600	
Zn	66	45	2	-0.34	-0.34	ug/l	900	
Cu	63	45	2	-0.04	-0.04	ug/l	450	
Ni	60	45	2	0.01	0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.66	0.66	ug/l	45000	
Mn	55	45	2	0.18	0.18	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.15	0.15	ug/l	3600	
Ti	47	45	2	0.03	0.03	ug/l	3600	
Ca	44	45	2	5.93	5.93	ug/l	360000	
K	39	45	2	9.55	9.55	ug/l	360000	
Al	27	45	2	0.27	0.27	ug/l	36000	
Mg	24	45	2	9.87	9.87	ug/l	360000	
Na	23	45	2	108.00	108.00	ug/l	360000	
B	11	6	2	0.09	0.09	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62413	1.35	56992	109.5	60	120	
Bi	209	2	300282	0.92	286349	104.9	60	120	
Tb	159	2	360133	0.57	337743	106.6	60	120	
In	115	2	101144	1.29	90201	112.1	60	120	
Kr	83	2	52	41.53	23	223.8	-1000	1000	
Ge	74	2	18568	1.58	16732	111.0	60	120	
Sc	45	2	153272	0.82	130618	117.3	60	120	
Li	6	2	20994	0.53	21135	99.3	60	120	

Sample Report

Sample Name	**460-151987-D-13-A@10**
Data File Name	**093SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:08:25-05:00**
Type	**Sample**
VialNumber	**2312**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.03	0.26	ug/l	900	
Pb	208	209	2	0.40	4.03	ug/l	3600	
Tl	205	209	2	0.02	0.22	ug/l	720	
Ba	137	159	2	28.09	280.90	ug/l	3600	
Sb	121	115	2	-0.14	-1.38	ug/l	3600	
Sn	118	115	2	0.08	0.80	ug/l	3600	
Cd	111	115	2	0.05	0.45	ug/l	3600	
Ag	107	115	2	-0.04	-0.42	ug/l	450	
Mo	95	115	2	0.08	0.77	ug/l	3600	
Sr	88	115	2	153.07	1530.69	ug/l	3600	
As	75	74	2	0.45	4.48	ug/l	3600	
Zn	66	45	2	1.05	10.55	ug/l	900	
Cu	63	45	2	0.42	4.18	ug/l	450	
Ni	60	45	2	0.60	6.03	ug/l	900	
Co	59	45	2	0.20	2.03	ug/l	1800	
Fe	56	45	2	1796.88	17968.82	ug/l	45000	
Mn	55	45	2	405.77	4057.69	ug/l	18000	
Cr	52	45	2	0.54	5.40	ug/l	3600	
V	51	45	2	1.35	13.45	ug/l	3600	
Ti	47	45	2	13.46	134.59	ug/l	3600	
Ca	44	45	2	10617.32	106173.22	ug/l	360000	
K	39	45	2	5678.89	56788.93	ug/l	360000	
Al	27	45	2	509.56	5095.63	ug/l	36000	
Mg	24	45	2	19177.31	191773.08	ug/l	360000	
Na	23	45	2	178514.73	1785147.33	ug/l	360000	
B	11	6	2	82.02	820.23	ug/l	7200	
Be	9	6	2	0.02	0.18	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56495	0.65	56992	99.1	60	120	
Bi	209	2	259279	0.56	286349	90.5	60	120	
Tb	159	2	344291	0.83	337743	101.9	60	120	
In	115	2	92327	0.43	90201	102.4	60	120	
Kr	83	2	47	18.90	23	200.0	-1000	1000	
Ge	74	2	17665	1.05	16732	105.6	60	120	
Sc	45	2	148963	1.05	130618	114.0	60	120	
Li	6	2	19699	0.91	21135	93.2	60	120	

Sample Report

Sample Name	**460-151987-D-14-A@2**
Data File Name	**094SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:11:40-05:00**
Type	**Sample**
VialNumber	**2401**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.10	0.19	ug/l	900	
Pb	208	209	2	0.48	0.96	ug/l	3600	
Tl	205	209	2	0.05	0.09	ug/l	720	
Ba	137	159	2	102.97	205.94	ug/l	3600	
Sb	121	115	2	0.51	1.01	ug/l	3600	
Sn	118	115	2	0.37	0.75	ug/l	3600	
Cd	111	115	2	0.11	0.22	ug/l	3600	
Ag	107	115	2	-0.03	-0.06	ug/l	450	
Mo	95	115	2	0.65	1.29	ug/l	3600	
Sr	88	115	2	669.05	1338.10	ug/l	3600	
As	75	74	2	0.87	1.74	ug/l	3600	
Zn	66	45	2	1.69	3.37	ug/l	900	
Cu	63	45	2	0.48	0.96	ug/l	450	
Ni	60	45	2	1.24	2.48	ug/l	900	
Co	59	45	2	0.28	0.56	ug/l	1800	
Fe	56	45	2	4690.57	9381.14	ug/l	45000	
Mn	55	45	2	1754.08	3508.17	ug/l	18000	
Cr	52	45	2	1.08	2.17	ug/l	3600	
V	51	45	2	2.24	4.48	ug/l	3600	
Ti	47	45	2	14.57	29.14	ug/l	3600	
Ca	44	45	2	45563.53	91127.07	ug/l	360000	
K	39	45	2	23931.20	47862.40	ug/l	360000	
Al	27	45	2	573.34	1146.68	ug/l	36000	
Mg	24	45	2	80009.92	160019.84	ug/l	360000	
Na	23	45	2	747624.44	1495248.88	ug/l	360000	fail
B	11	6	2	403.98	807.95	ug/l	7200	
Be	9	6	2	0.01	0.01	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	46569	1.13	56992	81.7	60	120	
Bi	209	2	221249	0.83	286349	77.3	60	120	
Tb	159	2	305333	0.53	337743	90.4	60	120	
In	115	2	80658	1.62	90201	89.4	60	120	
Kr	83	2	52	53.53	23	223.8	-1000	1000	
Ge	74	2	15633	1.08	16732	93.4	60	120	
Sc	45	2	135523	1.81	130618	103.8	60	120	
Li	6	2	16589	1.58	21135	78.5	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**095SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:15:01-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.22	-0.22	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.30	0.30	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.09	0.09	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.45	-0.45	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.03	-0.03	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.25	0.25	ug/l	45000	
Mn	55	45	2	0.19	0.19	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.15	0.15	ug/l	3600	
Ti	47	45	2	-0.01	-0.01	ug/l	3600	
Ca	44	45	2	4.23	4.23	ug/l	360000	
K	39	45	2	13.11	13.11	ug/l	360000	
Al	27	45	2	0.07	0.07	ug/l	36000	
Mg	24	45	2	10.04	10.04	ug/l	360000	
Na	23	45	2	121.52	121.52	ug/l	360000	
B	11	6	2	-2.37	-2.37	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	62104	1.23	56992	109.0	60	120	
Bi	209	2	298241	0.43	286349	104.2	60	120	
Tb	159	2	361337	0.65	337743	107.0	60	120	
In	115	2	101232	0.32	90201	112.2	60	120	
Kr	83	2	58	12.01	23	247.6	-1000	1000	
Ge	74	2	18647	0.91	16732	111.4	60	120	
Sc	45	2	153054	1.96	130618	117.2	60	120	
Li	6	2	21923	0.18	21135	103.7	60	120	

Sample Report

Sample Name	**460-151987-C-15-A@2**
Data File Name	**096SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:18:23-05:00**
Type	**Sample**
VialNumber	**2402**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.02	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.02	0.04	ug/l	3600	
Sb	121	115	2	0.38	0.76	ug/l	3600	
Sn	118	115	2	0.33	0.67	ug/l	3600	
Cd	111	115	2	-0.01	-0.03	ug/l	3600	
Ag	107	115	2	-0.03	-0.06	ug/l	450	
Mo	95	115	2	-0.02	-0.04	ug/l	3600	
Sr	88	115	2	0.06	0.12	ug/l	3600	
As	75	74	2	0.08	0.16	ug/l	3600	
Zn	66	45	2	0.29	0.57	ug/l	900	
Cu	63	45	2	-0.02	-0.04	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.03	ug/l	1800	
Fe	56	45	2	3.50	7.00	ug/l	45000	
Mn	55	45	2	0.20	0.40	ug/l	18000	
Cr	52	45	2	0.13	0.26	ug/l	3600	
V	51	45	2	0.58	1.15	ug/l	3600	
Ti	47	45	2	0.04	0.09	ug/l	3600	
Ca	44	45	2	6.55	13.09	ug/l	360000	
K	39	45	2	11.23	22.46	ug/l	360000	
Al	27	45	2	2.04	4.07	ug/l	36000	
Mg	24	45	2	7.80	15.61	ug/l	360000	
Na	23	45	2	130.87	261.74	ug/l	360000	
B	11	6	2	4.53	9.05	ug/l	7200	
Be	9	6	2	-0.04	-0.08	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57482	1.62	56992	100.9	60	120	
Bi	209	2	287176	0.84	286349	100.3	60	120	
Tb	159	2	352505	0.75	337743	104.4	60	120	
In	115	2	96989	1.60	90201	107.5	60	120	
Kr	83	2	42	22.79	23	181.0	-1000	1000	
Ge	74	2	17564	1.86	16732	105.0	60	120	
Sc	45	2	146686	0.99	130618	112.3	60	120	
Li	6	2	18886	0.30	21135	89.4	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**0976CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:21:42-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.75	1.35	ug/l	4947.87	1.23	50	101.5	90	110	
B	11	6	2	102.56	3.87	ug/l	2964.20	1.57	100	102.6	90	110	
Na	23	45	2	5098.96	1.11	ug/l	2620202.70	1.59	5000	102.0	90	110	
Mg	24	45	2	4919.69	0.56	ug/l	1221573.56	0.90	5000	98.4	90	110	
Al	27	45	2	502.58	0.41	ug/l	45380.50	1.04	500	100.5	90	110	
K	39	45	2	5150.15	1.21	ug/l	864539.26	0.98	5000	103.0	90	110	
Ca	44	45	2	5097.93	1.44	ug/l	38470.41	1.94	5000	102.0	90	110	
Ti	47	45	2	50.19	1.13	ug/l	2331.88	0.50	50	100.4	90	110	
V	51	45	2	48.11	0.48	ug/l	70969.44	0.83	50	96.2	90	110	
Cr	52	45	2	47.47	0.19	ug/l	86168.76	1.26	50	94.9	90	110	
Mn	55	45	2	494.64	0.99	ug/l	445537.29	0.50	500	98.9	90	110	
Fe	56	45	2	4858.33	0.97	ug/l	6526017.54	0.32	5000	97.2	90	110	
Co	59	45	2	47.77	1.17	ug/l	134107.13	0.13	50	95.5	90	110	
Ni	60	45	2	46.77	1.28	ug/l	36221.27	0.12	50	93.5	90	110	
Cu	63	45	2	47.12	0.85	ug/l	97941.64	0.57	50	94.2	90	110	
Zn	66	45	2	46.56	2.69	ug/l	10795.20	1.39	50	93.1	90	110	
As	75	74	2	50.01	1.00	ug/l	7058.92	1.28	50	100.0	90	110	
Se	78	74	1	48.88	1.83	ug/l	5410.39	1.38	50	97.8	90	110	
Sr	88	115	2	53.77	1.80	ug/l	43447.40	1.09	50	107.5	90	110	
Mo	95	115	2	49.58	1.90	ug/l	38736.27	1.47	50	99.2	90	110	
Ag	107	115	2	48.44	0.88	ug/l	119487.38	0.37	50	96.9	90	110	
Cd	111	115	2	48.30	2.25	ug/l	14319.41	1.70	50	96.6	90	110	
Sn	118	115	2	49.62	0.86	ug/l	31368.83	1.37	50	99.2	90	110	
Sb	121	115	2	51.44	1.66	ug/l	36621.96	2.02	50	102.9	90	110	
Ba	137	159	2	52.00	1.32	ug/l	14884.53	1.31	50	104.0	90	110	
Tl	205	209	2	10.04	0.90	ug/l	59326.62	0.59	10	100.4	90	110	
Pb	208	209	2	50.70	0.89	ug/l	388009.89	0.68	50	101.4	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20840	1.65	21135	98.6	60	120	
Sc	45	2	151828	1.29	130618	116.2	60	120	
Ge	74	1	61346	0.57	56992	107.6	60	120	
Ge	74	2	18426	1.05	16732	110.1	60	120	
Kr	83	2	24	20.83	23	104.8	-1000	1000	
In	115	2	97929	0.89	90201	108.6	60	120	
Tb	159	2	358734	0.44	337743	106.2	60	120	
Bi	209	2	285972	0.40	286349	99.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**0986CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:24:58-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-27.92	ug/l	1.78	38.98	0.2	
B	11	6	2	0.92	194.99	ug/l	591.13	8.02	20	
Na	23	45	2	22.26	6.03	ug/l	51733.96	0.49	50	
Mg	24	45	2	1.09	27.03	ug/l	461.13	15.27	50	
Al	27	45	2	0.15	235.45	ug/l	91.67	35.12	10	
K	39	45	2	8.28	303.29	ug/l	25213.17	15.65	50	
Ca	44	45	2	-1.73	-164.02	ug/l	238.34	9.69	50	
Ti	47	45	2	0.05	110.27	ug/l	5.55	45.84	1	
V	51	45	2	0.05	40.57	ug/l	154.45	19.94	1	
Cr	52	45	2	-0.05	-24.15	ug/l	260.01	8.98	1	
Mn	55	45	2	0.06	22.28	ug/l	68.89	18.32	2	
Fe	56	45	2	0.17	23.65	ug/l	3133.14	0.91	30	
Co	59	45	2	-0.02	-10.26	ug/l	14.44	35.26	1	
Ni	60	45	2	-0.03	-27.40	ug/l	35.55	19.51	1	
Cu	63	45	2	-0.07	-51.51	ug/l	324.46	23.66	1	
Zn	66	45	2	-0.55	-22.11	ug/l	166.67	17.09	4	
As	75	74	2	0.04	125.49	ug/l	11.11	60.61	0.5	
Se	78	74	1	0.01	61.69	ug/l	6.33	9.12	0.5	
Sr	88	115	2	0.01	89.69	ug/l	21.11	50.75	1	
Mo	95	115	2	0.00	-16.22	ug/l	30.00	0.00	1	
Ag	107	115	2	-0.03	-22.25	ug/l	28.89	65.62	1	
Cd	111	115	2	-0.01	-85.03	ug/l	2.22	86.60	0.5	
Sn	118	115	2	0.02	208.05	ug/l	70.00	34.34	4	
Sb	121	115	2	-0.19	-9.92	ug/l	141.12	9.55	0.5	
Ba	137	159	2	0.07	24.07	ug/l	28.89	17.63	1	
Tl	205	209	2	0.00	-49.74	ug/l	60.00	20.03	0.2	
Pb	208	209	2	0.00	-120.44	ug/l	148.90	24.56	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21305	1.08	21135	100.8	60	120	
Sc	45	2	153764	0.84	130618	117.7	60	120	
Ge	74	1	61971	0.54	56992	108.7	60	120	
Ge	74	2	18564	2.55	16732	110.9	60	120	
Kr	83	2	37	18.18	23	157.1	-1000	1000	
In	115	2	100862	0.35	90201	111.8	60	120	
Tb	159	2	359259	0.58	337743	106.4	60	120	
Bi	209	2	299057	0.21	286349	104.4	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**099LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:28:17-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.38	22.88	ug/l	43.11	20.76	0.4	95.0	70	130	
B	11	6	2	44.61	4.26	ug/l	1676.78	2.80	40	111.5	70	130	
Na	23	45	2	115.61	1.31	ug/l	99874.77	0.61	100	115.6	70	130	
Mg	24	45	2	99.95	2.17	ug/l	25391.64	1.38	100	100.0	70	130	
Al	27	45	2	21.40	2.00	ug/l	2037.94	1.25	20	107.0	70	130	
K	39	45	2	115.51	18.47	ug/l	43073.21	7.14	100	115.5	70	130	
Ca	44	45	2	102.74	1.06	ug/l	1034.50	0.92	100	102.7	70	130	
Ti	47	45	2	1.89	6.47	ug/l	92.23	6.35	2	94.4	70	130	
V	51	45	2	1.94	1.90	ug/l	2988.15	2.57	2	97.1	70	130	
Cr	52	45	2	1.87	3.11	ug/l	3780.57	2.25	2	93.4	70	130	
Mn	55	45	2	4.07	2.31	ug/l	3742.79	2.97	4	101.9	70	130	
Fe	56	45	2	60.36	0.11	ug/l	85243.60	0.94	60	100.6	70	130	
Co	59	45	2	1.91	3.40	ug/l	5504.48	3.58	2	95.4	70	130	
Ni	60	45	2	1.95	1.49	ug/l	1595.69	1.05	2	97.7	70	130	
Cu	63	45	2	1.89	4.53	ug/l	4437.44	2.99	2	94.3	70	130	
Zn	66	45	2	7.55	1.99	ug/l	2024.64	2.61	8	94.4	70	130	
As	75	74	2	1.09	14.16	ug/l	160.56	12.81	1	108.9	70	130	
Se	78	74	1	4.77	0.41	ug/l	541.12	0.63	5	95.4	70	130	
Sr	88	115	2	2.12	3.12	ug/l	1764.60	3.17	2	105.9	70	130	
Mo	95	115	2	1.94	2.95	ug/l	1587.91	2.99	2	97.2	70	130	
Ag	107	115	2	0.94	6.81	ug/l	2501.39	6.53	1	94.4	70	130	
Cd	111	115	2	0.96	14.11	ug/l	297.79	14.00	1	96.5	70	130	
Sn	118	115	2	7.99	3.18	ug/l	5233.30	3.18	8	99.9	70	130	
Sb	121	115	2	0.71	6.84	ug/l	794.49	4.37	1	71.1	70	130	
Ba	137	159	2	2.12	8.26	ug/l	616.70	7.09	2	106.1	70	130	
Tl	205	209	2	0.40	3.46	ug/l	2521.42	3.17	0.4	99.1	70	130	
(Pb)	206	209	2	0.61	4.48	ug/l	1226.76	4.24	0.6	102.0	70	130	
(Pb)	207	209	2	0.62	0.51	ug/l	1157.86	0.44	0.6	102.8	70	130	
Pb	208	209	2	0.62	2.80	ug/l	5109.42	2.47	0.6	103.1	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21785	1.10	21135	103.1	60	120	
Sc	45	2	154225	1.03	130618	118.1	60	120	
Ge	74	1	62324	0.28	56992	109.4	60	120	
Ge	74	2	18574	0.81	16732	111.0	60	120	
Kr	83	2	58	20.26	23	247.6	-1000	1000	
In	115	2	100452	0.19	90201	111.4	60	120	
Tb	159	2	360224	1.15	337743	106.7	60	120	
Bi	209	2	297950	0.23	286349	104.1	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152053-E-2-A@2**
Data File Name	**100SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:31:37-05:00**
Type	**Sample**
VialNumber	**2403**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.02	ug/l	900	
Pb	208	209	2	0.01	0.03	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.05	0.10	ug/l	3600	
Sb	121	115	2	0.38	0.76	ug/l	3600	
Sn	118	115	2	0.28	0.55	ug/l	3600	
Cd	111	115	2	-0.01	-0.02	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	-0.01	-0.02	ug/l	3600	
Sr	88	115	2	0.01	0.02	ug/l	3600	
As	75	74	2	0.10	0.19	ug/l	3600	
Zn	66	45	2	0.12	0.24	ug/l	900	
Cu	63	45	2	0.03	0.05	ug/l	450	
Ni	60	45	2	0.00	-0.01	ug/l	900	
Co	59	45	2	-0.01	-0.03	ug/l	1800	
Fe	56	45	2	2.42	4.83	ug/l	45000	
Mn	55	45	2	0.06	0.13	ug/l	18000	
Cr	52	45	2	0.13	0.25	ug/l	3600	
V	51	45	2	0.43	0.86	ug/l	3600	
Ti	47	45	2	0.09	0.19	ug/l	3600	
Ca	44	45	2	0.04	0.07	ug/l	360000	
K	39	45	2	6.58	13.16	ug/l	360000	
Al	27	45	2	2.24	4.49	ug/l	36000	
Mg	24	45	2	1.40	2.80	ug/l	360000	
Na	23	45	2	40.63	81.25	ug/l	360000	
B	11	6	2	4.33	8.66	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57519	1.25	56992	100.9	60	120	
Bi	209	2	286338	0.69	286349	100.0	60	120	
Tb	159	2	349540	0.74	337743	103.5	60	120	
In	115	2	96436	0.50	90201	106.9	60	120	
Kr	83	2	37	9.10	23	157.1	-1000	1000	
Ge	74	2	17658	1.23	16732	105.5	60	120	
Sc	45	2	147149	1.35	130618	112.7	60	120	
Li	6	2	17788	0.67	21135	84.2	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**101SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:35:01-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.21	-0.21	ug/l	3600	
Sn	118	115	2	0.01	0.01	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.22	0.22	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.01	0.01	ug/l	3600	
As	75	74	2	0.01	0.01	ug/l	3600	
Zn	66	45	2	-0.44	-0.44	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	-0.45	-0.45	ug/l	45000	
Mn	55	45	2	0.00	0.00	ug/l	18000	
Cr	52	45	2	-0.06	-0.06	ug/l	3600	
V	51	45	2	0.09	0.09	ug/l	3600	
Ti	47	45	2	-0.03	-0.03	ug/l	3600	
Ca	44	45	2	-0.60	-0.60	ug/l	360000	
K	39	45	2	10.64	10.64	ug/l	360000	
Al	27	45	2	-0.14	-0.14	ug/l	36000	
Mg	24	45	2	0.77	0.77	ug/l	360000	
Na	23	45	2	23.77	23.77	ug/l	360000	
B	11	6	2	0.29	0.29	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	61463	0.90	56992	107.8	60	120	
Bi	209	2	296186	0.25	286349	103.4	60	120	
Tb	159	2	359221	0.16	337743	106.4	60	120	
In	115	2	100964	0.66	90201	111.9	60	120	
Kr	83	2	59	6.54	23	252.4	-1000	1000	
Ge	74	2	18215	1.91	16732	108.9	60	120	
Sc	45	2	154033	0.26	130618	117.9	60	120	
Li	6	2	20929	1.03	21135	99.0	60	120	

Sample Report

Sample Name	**460-152053-E-3-A@2**
Data File Name	**102SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:38:21-05:00**
Type	**Sample**
VialNumber	**2404**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.12	0.24	ug/l	900	
Pb	208	209	2	0.21	0.41	ug/l	3600	
Tl	205	209	2	0.01	0.01	ug/l	720	
Ba	137	159	2	165.48	330.96	ug/l	3600	
Sb	121	115	2	0.45	0.90	ug/l	3600	
Sn	118	115	2	0.33	0.66	ug/l	3600	
Cd	111	115	2	0.13	0.26	ug/l	3600	
Ag	107	115	2	-0.03	-0.06	ug/l	450	
Mo	95	115	2	0.01	0.03	ug/l	3600	
Sr	88	115	2	934.80	1869.60	ug/l	3600	
As	75	74	2	0.29	0.58	ug/l	3600	
Zn	66	45	2	14.85	29.71	ug/l	900	
Cu	63	45	2	0.43	0.85	ug/l	450	
Ni	60	45	2	33.01	66.02	ug/l	900	
Co	59	45	2	0.38	0.75	ug/l	1800	
Fe	56	45	2	140.46	280.93	ug/l	45000	
Mn	55	45	2	68.46	136.92	ug/l	18000	
Cr	52	45	2	0.25	0.51	ug/l	3600	
V	51	45	2	1.04	2.08	ug/l	3600	
Ti	47	45	2	2.45	4.90	ug/l	3600	
Ca	44	45	2	73764.45	147528.90	ug/l	360000	
K	39	45	2	8230.42	16460.85	ug/l	360000	
Al	27	45	2	98.65	197.30	ug/l	36000	
Mg	24	45	2	51095.94	102191.87	ug/l	360000	
Na	23	45	2	123076.74	246153.48	ug/l	360000	
B	11	6	2	77.75	155.49	ug/l	7200	
Be	9	6	2	0.04	0.08	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	51959	1.04	56992	91.2	60	120	
Bi	209	2	246542	0.43	286349	86.1	60	120	
Tb	159	2	331142	0.63	337743	98.0	60	120	
In	115	2	87682	1.51	90201	97.2	60	120	
Kr	83	2	60	44.10	23	257.1	-1000	1000	
Ge	74	2	16710	1.45	16732	99.9	60	120	
Sc	45	2	142210	1.25	130618	108.9	60	120	
Li	6	2	17394	1.18	21135	82.3	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**103SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:41:45-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.19	-0.19	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.25	0.25	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.11	0.11	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.16	-0.16	ug/l	900	
Cu	63	45	2	-0.04	-0.04	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	-0.39	-0.39	ug/l	45000	
Mn	55	45	2	0.02	0.02	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.18	0.18	ug/l	3600	
Ti	47	45	2	-0.03	-0.03	ug/l	3600	
Ca	44	45	2	7.64	7.64	ug/l	360000	
K	39	45	2	14.32	14.32	ug/l	360000	
Al	27	45	2	-0.07	-0.07	ug/l	36000	
Mg	24	45	2	6.83	6.83	ug/l	360000	
Na	23	45	2	39.20	39.20	ug/l	360000	
B	11	6	2	-0.65	-0.65	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	61778	0.54	56992	108.4	60	120	
Bi	209	2	293889	0.54	286349	102.6	60	120	
Tb	159	2	358331	0.75	337743	106.1	60	120	
In	115	2	100425	0.32	90201	111.3	60	120	
Kr	83	2	43	23.09	23	185.7	-1000	1000	
Ge	74	2	18398	0.88	16732	110.0	60	120	
Sc	45	2	154398	0.81	130618	118.2	60	120	
Li	6	2	21890	0.62	21135	103.6	60	120	

Sample Report

Sample Name	**460-152053-E-4-A@2**
Data File Name	**104SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:45:08-05:00**
Type	**Sample**
VialNumber	**2405**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.02	ug/l	900	
Pb	208	209	2	0.19	0.37	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	198.33	396.67	ug/l	3600	
Sb	121	115	2	0.39	0.77	ug/l	3600	
Sn	118	115	2	0.33	0.66	ug/l	3600	
Cd	111	115	2	0.03	0.05	ug/l	3600	
Ag	107	115	2	-0.03	-0.07	ug/l	450	
Mo	95	115	2	0.21	0.43	ug/l	3600	
Sr	88	115	2	267.98	535.97	ug/l	3600	
As	75	74	2	1.23	2.46	ug/l	3600	
Zn	66	45	2	4.16	8.32	ug/l	900	
Cu	63	45	2	0.84	1.69	ug/l	450	
Ni	60	45	2	1.64	3.28	ug/l	900	
Co	59	45	2	0.26	0.52	ug/l	1800	
Fe	56	45	2	1405.36	2810.71	ug/l	45000	
Mn	55	45	2	878.42	1756.84	ug/l	18000	
Cr	52	45	2	0.24	0.47	ug/l	3600	
V	51	45	2	0.83	1.66	ug/l	3600	
Ti	47	45	2	14.15	28.29	ug/l	3600	
Ca	44	45	2	20283.38	40566.76	ug/l	360000	
K	39	45	2	1445.57	2891.15	ug/l	360000	
Al	27	45	2	83.22	166.45	ug/l	36000	
Mg	24	45	2	16720.78	33441.55	ug/l	360000	
Na	23	45	2	15409.48	30818.97	ug/l	360000	
B	11	6	2	44.86	89.72	ug/l	7200	
Be	9	6	2	-0.03	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56842	0.23	56992	99.7	60	120	
Bi	209	2	269835	0.61	286349	94.2	60	120	
Tb	159	2	346579	0.60	337743	102.6	60	120	
In	115	2	91964	0.22	90201	102.0	60	120	
Kr	83	2	33	40.01	23	142.9	-1000	1000	
Ge	74	2	17850	0.88	16732	106.7	60	120	
Sc	45	2	143602	1.60	130618	109.9	60	120	
Li	6	2	17790	0.90	21135	84.2	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1056CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:48:24-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.03	0.63	ug/l	4904.08	0.70	50	100.1	90	110	
B	11	6	2	103.21	4.43	ug/l	2995.88	3.15	100	103.2	90	110	
Na	23	45	2	5084.47	1.06	ug/l	2649194.68	1.35	5000	101.7	90	110	
Mg	24	45	2	4993.59	0.56	ug/l	1257232.85	1.39	5000	99.9	90	110	
Al	27	45	2	507.72	0.45	ug/l	46481.40	0.68	500	101.5	90	110	
K	39	45	2	5173.97	0.59	ug/l	880533.27	0.51	5000	103.5	90	110	
Ca	44	45	2	5075.06	0.68	ug/l	38833.01	1.66	5000	101.5	90	110	
Ti	47	45	2	49.98	3.48	ug/l	2355.21	4.44	50	100.0	90	110	
V	51	45	2	47.77	0.15	ug/l	71457.01	1.14	50	95.5	90	110	
Cr	52	45	2	47.20	0.64	ug/l	86878.25	1.21	50	94.4	90	110	
Mn	55	45	2	492.50	0.52	ug/l	449800.79	0.48	500	98.5	90	110	
Fe	56	45	2	4811.29	0.63	ug/l	6553040.94	0.66	5000	96.2	90	110	
Co	59	45	2	47.19	0.95	ug/l	134347.74	0.62	50	94.4	90	110	
Ni	60	45	2	46.47	2.20	ug/l	36493.19	2.17	50	92.9	90	110	
Cu	63	45	2	46.60	0.73	ug/l	98207.57	0.73	50	93.2	90	110	
Zn	66	45	2	46.48	1.90	ug/l	10928.57	0.85	50	93.0	90	110	
As	75	74	2	50.22	1.95	ug/l	7165.08	3.12	50	100.4	90	110	
Se	78	74	1	48.91	1.97	ug/l	5397.28	1.48	50	97.8	90	110	
Sr	88	115	2	53.38	1.23	ug/l	43727.17	1.34	50	106.8	90	110	
Mo	95	115	2	48.26	0.33	ug/l	38223.88	1.07	50	96.5	90	110	
Ag	107	115	2	47.58	0.93	ug/l	119000.62	1.62	50	95.2	90	110	
Cd	111	115	2	47.43	1.28	ug/l	14254.91	1.32	50	94.9	90	110	
Sn	118	115	2	49.33	1.54	ug/l	31615.99	1.59	50	98.7	90	110	
Sb	121	115	2	50.58	1.22	ug/l	36503.69	0.29	50	101.2	90	110	
Ba	137	159	2	51.61	1.46	ug/l	14712.12	1.22	50	103.2	90	110	
Tl	205	209	2	9.99	0.86	ug/l	58533.23	0.18	10	99.9	90	110	
Pb	208	209	2	50.74	0.71	ug/l	385153.38	0.08	50	101.5	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20952	0.87	21135	99.1	60	120	
Sc	45	2	153938	0.99	130618	117.9	60	120	
Ge	74	1	61160	0.97	56992	107.3	60	120	
Ge	74	2	18621	1.18	16732	111.3	60	120	
Kr	83	2	49	21.92	23	209.5	-1000	1000	
In	115	2	99268	0.92	90201	110.1	60	120	
Tb	159	2	357261	0.29	337743	105.8	60	120	
Bi	209	2	283649	0.68	286349	99.1	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1066CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:51:40-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-15.03	ug/l	0.89	57.47	0.2	
B	11	6	2	1.04	189.68	ug/l	593.91	7.54	20	
Na	23	45	2	16.00	4.00	ug/l	48349.12	0.57	50	
Mg	24	45	2	2.20	5.86	ug/l	736.70	5.04	50	
Al	27	45	2	0.16	57.80	ug/l	92.23	9.09	10	
K	39	45	2	9.18	188.95	ug/l	25274.11	10.50	50	
Ca	44	45	2	0.00	356438.05	ug/l	250.56	12.87	50	
Ti	47	45	2	0.07	127.60	ug/l	6.67	66.11	1	
V	51	45	2	0.05	51.37	ug/l	153.34	24.50	1	
Cr	52	45	2	-0.07	-14.67	ug/l	223.34	7.76	1	
Mn	55	45	2	0.14	32.68	ug/l	142.23	29.49	2	
Fe	56	45	2	0.48	23.20	ug/l	3548.23	3.62	30	
Co	59	45	2	-0.01	-37.18	ug/l	34.45	31.11	1	
Ni	60	45	2	-0.03	-32.11	ug/l	34.44	24.35	1	
Cu	63	45	2	-0.05	-26.81	ug/l	367.79	8.42	1	
Zn	66	45	2	-0.49	-13.65	ug/l	178.90	8.81	4	
As	75	74	2	0.05	91.58	ug/l	12.22	47.86	0.5	
Se	78	74	1	0.03	87.69	ug/l	8.66	33.32	0.5	
Sr	88	115	2	0.03	26.84	ug/l	30.00	19.24	1	
Mo	95	115	2	0.01	123.50	ug/l	38.89	26.18	1	
Ag	107	115	2	-0.04	-14.28	ug/l	25.56	49.38	1	
Cd	111	115	2	-0.01	-170.05	ug/l	2.22	173.21	0.5	
Sn	118	115	2	-0.01	-421.13	ug/l	54.45	30.81	4	
Sb	121	115	2	-0.22	-7.93	ug/l	120.01	10.02	0.5	
Ba	137	159	2	0.09	46.44	ug/l	33.33	36.07	1	
Tl	205	209	2	0.00	-53.25	ug/l	66.67	13.23	0.2	
Pb	208	209	2	0.00	-311.07	ug/l	168.90	20.26	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21319	0.40	21135	100.9	60	120	
Sc	45	2	153189	0.78	130618	117.3	60	120	
Ge	74	1	61650	0.11	56992	108.2	60	120	
Ge	74	2	18584	0.36	16732	111.1	60	120	
Kr	83	2	47	18.90	23	200.0	-1000	1000	
In	115	2	100559	0.55	90201	111.5	60	120	
Tb	159	2	358609	0.03	337743	106.2	60	120	
Bi	209	2	298822	1.02	286349	104.4	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**107LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:55:01-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.34	6.34	ug/l	39.11	5.21	0.4	85.1	70	130	
B	11	6	2	43.06	2.55	ug/l	1640.66	2.05	40	107.6	70	130	
Na	23	45	2	111.92	1.47	ug/l	97753.01	0.40	100	111.9	70	130	
Mg	24	45	2	100.65	1.06	ug/l	25510.80	0.37	100	100.7	70	130	
Al	27	45	2	20.75	2.47	ug/l	1973.49	3.13	20	103.7	70	130	
K	39	45	2	116.71	22.06	ug/l	43166.75	8.81	100	116.7	70	130	
Ca	44	45	2	105.32	3.68	ug/l	1051.71	2.87	100	105.3	70	130	
Ti	47	45	2	2.37	13.83	ug/l	114.45	13.21	2	118.3	70	130	
V	51	45	2	1.98	5.22	ug/l	3034.84	5.44	2	98.9	70	130	
Cr	52	45	2	1.93	2.81	ug/l	3889.49	2.27	2	96.6	70	130	
Mn	55	45	2	4.05	2.90	ug/l	3710.55	2.66	4	101.2	70	130	
Fe	56	45	2	60.31	0.86	ug/l	84970.39	0.22	60	100.5	70	130	
Co	59	45	2	1.93	3.64	ug/l	5538.95	3.72	2	96.3	70	130	
Ni	60	45	2	1.97	1.67	ug/l	1606.81	2.55	2	98.6	70	130	
Cu	63	45	2	1.87	5.65	ug/l	4404.09	5.84	2	93.7	70	130	
Zn	66	45	2	7.40	2.34	ug/l	1983.52	2.81	8	92.4	70	130	
As	75	74	2	0.96	7.18	ug/l	141.11	7.12	1	95.6	70	130	
Se	78	74	1	4.83	6.06	ug/l	552.90	6.45	5	96.6	70	130	
Sr	88	115	2	2.12	3.69	ug/l	1772.38	4.21	2	105.8	70	130	
Mo	95	115	2	1.99	5.17	ug/l	1630.14	4.09	2	99.3	70	130	
Ag	107	115	2	0.94	7.01	ug/l	2508.07	7.39	1	94.1	70	130	
Cd	111	115	2	0.92	17.91	ug/l	286.68	17.36	1	92.3	70	130	
Sn	118	115	2	7.96	1.32	ug/l	5239.97	0.75	8	99.5	70	130	
Sb	121	115	2	0.84	5.29	ug/l	894.50	4.41	1	84.2	70	130	
Ba	137	159	2	2.17	12.10	ug/l	628.92	11.68	2	108.5	70	130	
Tl	205	209	2	0.38	3.53	ug/l	2440.29	3.85	0.4	96.1	70	130	
(Pb)	206	209	2	0.59	9.79	ug/l	1175.65	9.81	0.6	97.8	70	130	
(Pb)	207	209	2	0.60	6.88	ug/l	1131.20	6.13	0.6	100.6	70	130	
Pb	208	209	2	0.61	0.15	ug/l	5042.75	0.60	0.6	102.0	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21810	0.47	21135	103.2	60	120	
Sc	45	2	153866	1.03	130618	117.8	60	120	
Ge	74	1	62853	0.46	56992	110.3	60	120	
Ge	74	2	18496	1.18	16732	110.5	60	120	
Kr	83	2	32	33.25	23	138.1	-1000	1000	
In	115	2	101024	0.99	90201	112.0	60	120	
Tb	159	2	359177	0.56	337743	106.3	60	120	
Bi	209	2	297238	0.46	286349	103.8	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**MB 460-504406/1-A@2@20**
Data File Name	**1086CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T20:58:19-05:00**
Type	**6-CCB**
VialNumber	**3301**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.04	-211.65	ug/l	0.55	69.91	0.2	
B	11	6	2	-1.60	-764.81	ug/l	527.24	1.93	20	
Na	23	45	2	11.73	251.03	ug/l	46360.06	0.48	50	
Mg	24	45	2	1.07	112.10	ug/l	456.69	2.19	50	
Al	27	45	2	0.72	493.77	ug/l	143.89	12.49	10	
K	39	45	2	13.18	3577.90	ug/l	26025.54	13.62	50	
Ca	44	45	2	-2.55	-1415.70	ug/l	232.23	6.97	50	
Ti	47	45	2	0.01	12171.35	ug/l	3.89	107.88	1	
V	51	45	2	0.10	680.37	ug/l	235.57	22.39	1	
Cr	52	45	2	-0.04	-1160.46	ug/l	283.34	12.28	1	
Mn	55	45	2	0.02	728.96	ug/l	34.45	20.14	2	
Fe	56	45	2	-0.68	-86.46	ug/l	1977.94	3.26	30	
Co	59	45	2	-0.02	-330.11	ug/l	11.11	75.52	1	
Ni	60	45	2	-0.04	-20.45	ug/l	26.67	0.00	1	
Cu	63	45	2	-0.03	-849.48	ug/l	410.02	6.50	1	
Zn	66	45	2	-0.45	-381.17	ug/l	188.90	11.34	4	
As	75	74	2	0.01	5023.92	ug/l	7.78	65.47	0.5	
Se	78	74	1	-0.02	-330.96	ug/l	3.33	10.05	0.5	
Sr	88	115	2	0.01	1620.93	ug/l	13.33	25.01	1	
Mo	95	115	2	-0.01	-1127.27	ug/l	21.11	24.12	1	
Ag	107	115	2	-0.04	-70.22	ug/l	4.45	86.60	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	0.02	2441.89	ug/l	70.00	20.75	4	
Sb	121	115	2	-0.20	-507.45	ug/l	131.11	27.89	0.5	
Ba	137	159	2	0.00	-15380.88	ug/l	6.67	86.60	1	
Tl	205	209	2	-0.01	-188.81	ug/l	50.00	6.67	0.2	
Pb	208	209	2	0.00	-2034.75	ug/l	138.90	26.54	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	21187	0.84	21135	100.2	60	120	
Sc	45	2	153846	1.30	130618	117.8	60	120	
Ge	74	1	61672	0.56	56992	108.2	60	120	
Ge	74	2	18452	0.67	16732	110.3	60	120	
Kr	83	2	46	18.42	23	195.3	-1000	1000	
In	115	2	100305	1.00	90201	111.2	60	120	
Tb	159	2	354511	0.85	337743	105.0	60	120	
Bi	209	2	293594	1.23	286349	102.5	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Sample Report

Sample Name	**LCSSRM 460-504406/2-A@100**
Data File Name	**109SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:01:40-05:00**
Type	**Sample**
VialNumber	**3302**
Dilution	**100**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	41.35	4134.55	ug/l	900	
Pb	208	209	2	20.44	2044.31	ug/l	3600	
Tl	205	209	2	33.94	3393.88	ug/l	720	
Ba	137	159	2	70.92	7092.13	ug/l	3600	
Sb	121	115	2	12.67	1267.18	ug/l	3600	
Sn	118	115	2	20.94	2094.26	ug/l	3600	
Cd	111	115	2	40.49	4048.71	ug/l	3600	
Ag	107	115	2	8.65	865.01	ug/l	450	
Mo	95	115	2	30.50	3049.65	ug/l	3600	
Sr	88	115	2	24.22	2421.94	ug/l	3600	
As	75	74	2	33.24	3324.49	ug/l	3600	
Zn	66	45	2	37.55	3755.33	ug/l	900	
Cu	63	45	2	35.14	3513.68	ug/l	450	
Ni	60	45	2	29.16	2915.97	ug/l	900	
Co	59	45	2	16.96	1696.38	ug/l	1800	
Fe	56	45	2	3267.59	326759.02	ug/l	45000	
Mn	55	45	2	50.22	5021.79	ug/l	18000	
Cr	52	45	2	19.28	1927.54	ug/l	3600	
V	51	45	2	18.69	1868.83	ug/l	3600	
Ti	47	45	2	81.81	8180.82	ug/l	3600	
Ca	44	45	2	1027.61	102760.58	ug/l	360000	
K	39	45	2	449.97	44996.97	ug/l	360000	
Al	27	45	2	1714.81	171481.47	ug/l	36000	
Mg	24	45	2	485.66	48565.87	ug/l	360000	
Na	23	45	2	55.47	5546.76	ug/l	360000	
B	11	6	2	16.92	1691.91	ug/l	7200	
Be	9	6	2	12.21	1221.39	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60503	1.32	56992	106.2	60	120	
Bi	209	2	288007	0.49	286349	100.6	60	120	
Tb	159	2	353608	0.61	337743	104.7	60	120	
In	115	2	98464	1.54	90201	109.2	60	120	
Kr	83	2	57	20.38	23	242.9	-1000	1000	
Ge	74	2	18285	0.71	16732	109.3	60	120	
Sc	45	2	152439	1.00	130618	116.7	60	120	
Li	6	2	20603	0.94	21135	97.5	60	120	

Sample Report

Sample Name	**PDS 460-152128-J-1-A@20**
Data File Name	**110SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:04:59-05:00**
Type	**Sample**
VialNumber	**3303**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	10.06	201.23	ug/l	900	
Pb	208	209	2	39.80	796.10	ug/l	3600	
Tl	205	209	2	4.08	81.64	ug/l	720	
Ba	137	159	2	86.67	1733.35	ug/l	3600	
Sb	121	115	2	5.50	109.91	ug/l	3600	
Sn	118	115	2	14.27	285.47	ug/l	3600	
Cd	111	115	2	4.88	97.53	ug/l	3600	
Ag	107	115	2	4.70	93.99	ug/l	450	
Mo	95	115	2	10.19	203.87	ug/l	3600	
Sr	88	115	2	26.59	531.87	ug/l	3600	
As	75	74	2	14.06	281.15	ug/l	3600	
Zn	66	45	2	89.62	1792.37	ug/l	900	
Cu	63	45	2	42.44	848.80	ug/l	450	
Ni	60	45	2	22.86	457.20	ug/l	900	
Co	59	45	2	14.26	285.14	ug/l	1800	
Fe	56	45	2	30441.55	608831.03	ug/l	45000	
Mn	55	45	2	1687.82	33756.35	ug/l	18000	
Cr	52	45	2	65.12	1302.41	ug/l	3600	
V	51	45	2	114.36	2287.26	ug/l	3600	
Ti	47	45	2	755.83	15116.58	ug/l	3600	
Ca	44	45	2	8373.65	167472.91	ug/l	360000	
K	39	45	2	2174.11	43482.16	ug/l	360000	
Al	27	45	2	10760.04	215200.86	ug/l	36000	
Mg	24	45	2	3266.53	65330.66	ug/l	360000	
Na	23	45	2	537.66	10753.13	ug/l	360000	
B	11	6	2	112.05	2241.06	ug/l	7200	
Be	9	6	2	5.53	110.63	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56490	0.50	56992	99.1	60	120	
Bi	209	2	279451	0.59	286349	97.6	60	120	
Tb	159	2	353129	0.33	337743	104.6	60	120	
In	115	2	95041	1.32	90201	105.4	60	120	
Kr	83	2	57	29.42	23	242.9	-1000	1000	
Ge	74	2	17608	1.32	16732	105.2	60	120	
Sc	45	2	152138	1.51	130618	116.5	60	120	
Li	6	2	18928	2.01	21135	89.6	60	120	

Sample Report

Sample Name	**460-152128-J-1-C MS@20**
Data File Name	**111SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:08:15-05:00**
Type	**Sample**
VialNumber	**3304**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	10.59	211.86	ug/l	900	
Pb	208	209	2	45.45	908.96	ug/l	3600	
Tl	205	209	2	4.41	88.21	ug/l	720	
Ba	137	159	2	91.57	1831.34	ug/l	3600	
Sb	121	115	2	3.70	73.96	ug/l	3600	
Sn	118	115	2	16.10	322.00	ug/l	3600	
Cd	111	115	2	5.48	109.58	ug/l	3600	
Ag	107	115	2	4.42	88.35	ug/l	450	
Mo	95	115	2	11.44	228.79	ug/l	3600	
Sr	88	115	2	67.25	1345.08	ug/l	3600	
As	75	74	2	15.76	315.10	ug/l	3600	
Zn	66	45	2	91.10	1821.93	ug/l	900	
Cu	63	45	2	45.45	909.08	ug/l	450	
Ni	60	45	2	22.88	457.66	ug/l	900	
Co	59	45	2	18.20	363.95	ug/l	1800	
Fe	56	45	2	61030.03	1220600.60	ug/l	45000	fail
Mn	55	45	2	12631.80	252635.95	ug/l	18000	
Cr	52	45	2	807.55	16151.02	ug/l	3600	
V	51	45	2	1070.32	21406.33	ug/l	3600	
Ti	47	45	2	1833.02	36660.41	ug/l	3600	
Ca	44	45	2	68043.65	1360872.97	ug/l	360000	
K	39	45	2	1600.12	32002.38	ug/l	360000	
Al	27	45	2	10044.64	200892.82	ug/l	36000	
Mg	24	45	2	11169.51	223390.22	ug/l	360000	
Na	23	45	2	584.43	11688.56	ug/l	360000	
B	11	6	2	130.77	2615.50	ug/l	7200	
Be	9	6	2	6.12	122.45	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	53263	1.25	56992	93.5	60	120	
Bi	209	2	268364	0.30	286349	93.7	60	120	
Tb	159	2	342170	0.43	337743	101.3	60	120	
In	115	2	92190	1.45	90201	102.2	60	120	
Kr	83	2	49	23.94	23	209.5	-1000	1000	
Ge	74	2	16961	0.88	16732	101.4	60	120	
Sc	45	2	145369	1.68	130618	111.3	60	120	
Li	6	2	17661	1.01	21135	83.6	60	120	

Sample Report

Sample Name	**460-152128-J-1-B DU@20**
Data File Name	**112SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:11:29-05:00**
Type	**Sample**
VialNumber	**3305**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.17	3.49	ug/l	900	
Pb	208	209	2	33.24	664.72	ug/l	3600	
Tl	205	209	2	0.21	4.20	ug/l	720	
Ba	137	159	2	97.59	1951.84	ug/l	3600	
Sb	121	115	2	0.55	10.91	ug/l	3600	
Sn	118	115	2	3.88	77.52	ug/l	3600	
Cd	111	115	2	0.13	2.57	ug/l	3600	
Ag	107	115	2	-0.01	-0.14	ug/l	450	
Mo	95	115	2	0.67	13.50	ug/l	3600	
Sr	88	115	2	31.33	626.62	ug/l	3600	
As	75	74	2	4.89	97.79	ug/l	3600	
Zn	66	45	2	50.36	1007.19	ug/l	900	
Cu	63	45	2	44.83	896.51	ug/l	450	
Ni	60	45	2	16.85	336.93	ug/l	900	
Co	59	45	2	9.93	198.65	ug/l	1800	
Fe	56	45	2	39648.13	792962.54	ug/l	45000	
Mn	55	45	2	2100.85	42017.05	ug/l	18000	
Cr	52	45	2	69.12	1382.31	ug/l	3600	
V	51	45	2	92.46	1849.21	ug/l	3600	
Ti	47	45	2	750.53	15010.61	ug/l	3600	
Ca	44	45	2	7782.94	155658.85	ug/l	360000	
K	39	45	2	1915.11	38302.11	ug/l	360000	
Al	27	45	2	10105.77	202115.38	ug/l	36000	
Mg	24	45	2	3130.53	62610.62	ug/l	360000	
Na	23	45	2	86.91	1738.25	ug/l	360000	
B	11	6	2	5.06	101.30	ug/l	7200	
Be	9	6	2	0.54	10.78	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	55001	0.85	56992	96.5	60	120	
Bi	209	2	279134	0.29	286349	97.5	60	120	
Tb	159	2	351288	0.82	337743	104.0	60	120	
In	115	2	94834	0.72	90201	105.1	60	120	
Kr	83	2	48	14.53	23	204.8	-1000	1000	
Ge	74	2	17466	0.96	16732	104.4	60	120	
Sc	45	2	150270	1.14	130618	115.0	60	120	
Li	6	2	18054	0.13	21135	85.4	60	120	

Sample Report

Sample Name	**460-152128-J-1-A@20**
Data File Name	**113SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:14:47-05:00**
Type	**Sample**
VialNumber	**3306**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.18	3.68	ug/l	900	
Pb	208	209	2	34.69	693.75	ug/l	3600	
Tl	205	209	2	0.17	3.46	ug/l	720	
Ba	137	159	2	77.47	1549.46	ug/l	3600	
Sb	121	115	2	0.49	9.74	ug/l	3600	
Sn	118	115	2	4.67	93.45	ug/l	3600	
Cd	111	115	2	0.13	2.65	ug/l	3600	
Ag	107	115	2	-0.01	-0.27	ug/l	450	
Mo	95	115	2	0.78	15.67	ug/l	3600	
Sr	88	115	2	15.86	317.30	ug/l	3600	
As	75	74	2	4.62	92.38	ug/l	3600	
Zn	66	45	2	45.90	918.04	ug/l	900	
Cu	63	45	2	33.96	679.12	ug/l	450	
Ni	60	45	2	14.33	286.55	ug/l	900	
Co	59	45	2	9.58	191.67	ug/l	1800	
Fe	56	45	2	29681.91	593638.21	ug/l	45000	
Mn	55	45	2	1580.58	31611.64	ug/l	18000	
Cr	52	45	2	52.73	1054.68	ug/l	3600	
V	51	45	2	100.89	2017.76	ug/l	3600	
Ti	47	45	2	738.30	14765.91	ug/l	3600	
Ca	44	45	2	7640.22	152804.34	ug/l	360000	
K	39	45	2	1692.79	33855.81	ug/l	360000	
Al	27	45	2	10227.54	204550.81	ug/l	36000	
Mg	24	45	2	2775.86	55517.17	ug/l	360000	
Na	23	45	2	83.84	1676.85	ug/l	360000	
B	11	6	2	5.32	106.37	ug/l	7200	
Be	9	6	2	0.45	9.00	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56441	0.75	56992	99.0	60	120	
Bi	209	2	280380	0.29	286349	97.9	60	120	
Tb	159	2	352266	0.79	337743	104.3	60	120	
In	115	2	95006	0.34	90201	105.3	60	120	
Kr	83	2	49	37.55	23	209.5	-1000	1000	
Ge	74	2	17618	0.14	16732	105.3	60	120	
Sc	45	2	151375	1.00	130618	115.9	60	120	
Li	6	2	17872	1.69	21135	84.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**114SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:18:07-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.02	0.02	ug/l	3600	
Sb	121	115	2	-0.30	-0.30	ug/l	3600	
Sn	118	115	2	0.00	0.00	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.24	0.24	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.22	-0.22	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	3.84	3.84	ug/l	45000	
Mn	55	45	2	0.23	0.23	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.06	0.06	ug/l	3600	
Ti	47	45	2	0.00	0.00	ug/l	3600	
Ca	44	45	2	0.32	0.32	ug/l	360000	
K	39	45	2	10.36	10.36	ug/l	360000	
Al	27	45	2	0.99	0.99	ug/l	36000	
Mg	24	45	2	1.02	1.02	ug/l	360000	
Na	23	45	2	16.12	16.12	ug/l	360000	
B	11	6	2	0.04	0.04	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60166	0.78	56992	105.6	60	120	
Bi	209	2	292798	1.22	286349	102.3	60	120	
Tb	159	2	356609	0.73	337743	105.6	60	120	
In	115	2	98997	0.32	90201	109.8	60	120	
Kr	83	2	39	30.10	23	166.7	-1000	1000	
Ge	74	2	18131	2.31	16732	108.4	60	120	
Sc	45	2	150412	0.64	130618	115.2	60	120	
Li	6	2	19509	1.41	21135	92.3	60	120	

Sample Report

Sample Name	**SD 460-152128-J-1-A@100**
Data File Name	**115SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:21:29-05:00**
Type	**Sample**
VialNumber	**3307**
Dilution	**100**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.69	ug/l	900	
Pb	208	209	2	7.03	703.45	ug/l	3600	
Tl	205	209	2	0.03	2.96	ug/l	720	
Ba	137	159	2	15.33	1533.06	ug/l	3600	
Sb	121	115	2	-0.12	-12.18	ug/l	3600	
Sn	118	115	2	1.03	102.70	ug/l	3600	
Cd	111	115	2	0.01	1.16	ug/l	3600	
Ag	107	115	2	-0.04	-3.61	ug/l	450	
Mo	95	115	2	0.16	15.80	ug/l	3600	
Sr	88	115	2	3.30	330.02	ug/l	3600	
As	75	74	2	0.97	96.52	ug/l	3600	
Zn	66	45	2	9.19	919.05	ug/l	900	
Cu	63	45	2	7.18	718.09	ug/l	450	
Ni	60	45	2	2.97	296.61	ug/l	900	
Co	59	45	2	2.04	204.21	ug/l	1800	
Fe	56	45	2	6245.11	624511.21	ug/l	45000	
Mn	55	45	2	326.80	32680.17	ug/l	18000	
Cr	52	45	2	11.15	1115.17	ug/l	3600	
V	51	45	2	21.17	2117.33	ug/l	3600	
Ti	47	45	2	155.44	15544.22	ug/l	3600	
Ca	44	45	2	1600.16	160016.13	ug/l	360000	
K	39	45	2	358.33	35833.38	ug/l	360000	
Al	27	45	2	2165.03	216502.53	ug/l	36000	
Mg	24	45	2	590.64	59063.99	ug/l	360000	
Na	23	45	2	25.56	2556.07	ug/l	360000	
B	11	6	2	-0.64	-63.60	ug/l	7200	
Be	9	6	2	0.07	7.39	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59472	0.11	56992	104.4	60	120	
Bi	209	2	287518	0.44	286349	100.4	60	120	
Tb	159	2	355693	0.99	337743	105.3	60	120	
In	115	2	98159	0.61	90201	108.8	60	120	
Kr	83	2	50	41.63	23	214.3	-1000	1000	
Ge	74	2	18161	1.92	16732	108.5	60	120	
Sc	45	2	151460	1.19	130618	116.0	60	120	
Li	6	2	19484	0.44	21135	92.2	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**116SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:24:49-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.02	0.02	ug/l	3600	
Sb	121	115	2	-0.29	-0.29	ug/l	3600	
Sn	118	115	2	-0.02	-0.02	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.21	0.21	ug/l	450	
Mo	95	115	2	-0.04	-0.04	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.00	0.00	ug/l	3600	
Zn	66	45	2	-0.35	-0.35	ug/l	900	
Cu	63	45	2	-0.02	-0.02	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.80	0.80	ug/l	45000	
Mn	55	45	2	0.07	0.07	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.07	0.07	ug/l	3600	
Ti	47	45	2	0.02	0.02	ug/l	3600	
Ca	44	45	2	-2.98	-2.98	ug/l	360000	
K	39	45	2	8.33	8.33	ug/l	360000	
Al	27	45	2	0.17	0.17	ug/l	36000	
Mg	24	45	2	0.65	0.65	ug/l	360000	
Na	23	45	2	14.54	14.54	ug/l	360000	
B	11	6	2	-0.57	-0.57	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60177	0.47	56992	105.6	60	120	
Bi	209	2	293703	0.21	286349	102.6	60	120	
Tb	159	2	356580	0.79	337743	105.6	60	120	
In	115	2	99513	0.86	90201	110.3	60	120	
Kr	83	2	50	30.56	23	214.3	-1000	1000	
Ge	74	2	18177	3.33	16732	108.6	60	120	
Sc	45	2	150912	1.38	130618	115.5	60	120	
Li	6	2	19779	1.19	21135	93.6	60	120	

Sample Report

Sample Name	**460-152048-A-1-B@20**
Data File Name	**117SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:28:12-05:00**
Type	**Sample**
VialNumber	**3308**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.78	ug/l	900	
Pb	208	209	2	16.50	330.05	ug/l	3600	
Tl	205	209	2	0.08	1.51	ug/l	720	
Ba	137	159	2	58.81	1176.19	ug/l	3600	
Sb	121	115	2	-0.12	-2.50	ug/l	3600	
Sn	118	115	2	1.62	32.45	ug/l	3600	
Cd	111	115	2	0.06	1.16	ug/l	3600	
Ag	107	115	2	-0.02	-0.32	ug/l	450	
Mo	95	115	2	0.35	6.92	ug/l	3600	
Sr	88	115	2	4.75	95.04	ug/l	3600	
As	75	74	2	4.63	92.61	ug/l	3600	
Zn	66	45	2	23.43	468.51	ug/l	900	
Cu	63	45	2	6.70	133.97	ug/l	450	
Ni	60	45	2	6.58	131.60	ug/l	900	
Co	59	45	2	3.32	66.35	ug/l	1800	
Fe	56	45	2	7792.73	155854.57	ug/l	45000	
Mn	55	45	2	253.70	5074.04	ug/l	18000	
Cr	52	45	2	9.46	189.24	ug/l	3600	
V	51	45	2	13.96	279.21	ug/l	3600	
Ti	47	45	2	166.64	3332.83	ug/l	3600	
Ca	44	45	2	907.70	18153.98	ug/l	360000	
K	39	45	2	619.04	12380.76	ug/l	360000	
Al	27	45	2	7959.77	159195.31	ug/l	36000	
Mg	24	45	2	1105.44	22108.79	ug/l	360000	
Na	23	45	2	39.25	784.99	ug/l	360000	
B	11	6	2	4.36	87.25	ug/l	7200	
Be	9	6	2	0.52	10.35	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57695	1.41	56992	101.2	60	120	
Bi	209	2	282527	1.10	286349	98.7	60	120	
Tb	159	2	354513	0.44	337743	105.0	60	120	
In	115	2	96281	1.21	90201	106.7	60	120	
Kr	83	2	53	47.18	23	228.6	-1000	1000	
Ge	74	2	17892	1.22	16732	106.9	60	120	
Sc	45	2	150676	1.50	130618	115.4	60	120	
Li	6	2	18314	0.95	21135	86.7	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1186CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:31:29-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	53.05	4.20	ug/l	4815.83	2.36	50	106.1	90	110	
B	11	6	2	107.53	5.28	ug/l	2870.30	4.22	100	107.5	90	110	
Na	23	45	2	5005.60	1.45	ug/l	2587894.23	1.42	5000	100.1	90	110	
Mg	24	45	2	4903.76	1.63	ug/l	1224725.19	1.64	5000	98.1	90	110	
Al	27	45	2	496.37	1.95	ug/l	45080.93	1.83	500	99.3	90	110	
K	39	45	2	5151.25	0.62	ug/l	869787.54	0.48	5000	103.0	90	110	
Ca	44	45	2	5076.92	0.82	ug/l	38534.49	0.63	5000	101.5	90	110	
Ti	47	45	2	50.59	4.52	ug/l	2364.11	4.41	50	101.2	90	110	
V	51	45	2	47.86	1.59	ug/l	71014.89	1.67	50	95.7	90	110	
Cr	52	45	2	47.30	1.72	ug/l	86365.61	1.89	50	94.6	90	110	
Mn	55	45	2	488.55	1.21	ug/l	442639.32	1.37	500	97.7	90	110	
Fe	56	45	2	4777.36	1.07	ug/l	6455083.38	1.18	5000	95.5	90	110	
Co	59	45	2	46.82	0.47	ug/l	132238.15	0.65	50	93.6	90	110	
Ni	60	45	2	46.20	0.62	ug/l	35993.03	0.48	50	92.4	90	110	
Cu	63	45	2	46.09	0.67	ug/l	96364.96	0.82	50	92.2	90	110	
Zn	66	45	2	45.37	4.04	ug/l	10589.44	3.81	50	90.7	90	110	
As	75	74	2	50.13	0.51	ug/l	6987.23	1.02	50	100.3	90	110	
Se	78	74	1	48.88	1.09	ug/l	5369.83	0.70	50	97.8	90	110	
Sr	88	115	2	52.39	0.90	ug/l	42434.83	0.86	50	104.8	90	110	
Mo	95	115	2	48.82	1.15	ug/l	38225.11	0.30	50	97.6	90	110	
Ag	107	115	2	47.84	1.22	ug/l	118280.37	0.86	50	95.7	90	110	
Cd	111	115	2	47.49	0.84	ug/l	14112.51	1.86	50	95.0	90	110	
Sn	118	115	2	49.76	1.32	ug/l	31530.23	1.31	50	99.5	90	110	
Sb	121	115	2	51.30	1.78	ug/l	36596.18	0.91	50	102.6	90	110	
Ba	137	159	2	51.67	1.92	ug/l	14741.03	1.75	50	103.3	90	110	
Tl	205	209	2	10.12	0.99	ug/l	58975.90	0.49	10	101.2	90	110	
Pb	208	209	2	50.95	0.22	ug/l	384807.63	0.72	50	101.9	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19411	1.93	21135	91.8	60	120	
Sc	45	2	152708	0.18	130618	116.9	60	120	
Ge	74	1	60886	0.41	56992	106.8	60	120	
Ge	74	2	18196	0.59	16732	108.7	60	120	
Kr	83	2	36	32.93	23	152.4	-1000	1000	
In	115	2	98147	1.13	90201	108.8	60	120	
Tb	159	2	357548	0.21	337743	105.9	60	120	
Bi	209	2	282217	0.75	286349	98.6	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1196CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:34:45-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-14.85	ug/l	1.55	24.90	0.2	
B	11	6	2	1.68	63.92	ug/l	579.46	4.03	20	
Na	23	45	2	7.66	10.12	ug/l	43700.38	0.82	50	
Mg	24	45	2	0.91	31.27	ug/l	410.02	17.03	50	
Al	27	45	2	0.53	18.91	ug/l	124.45	7.73	10	
K	39	45	2	8.67	227.65	ug/l	24967.11	12.22	50	
Ca	44	45	2	-0.15	-2526.36	ug/l	247.23	12.36	50	
Ti	47	45	2	-0.01	-1277.19	ug/l	2.78	173.21	1	
V	51	45	2	0.05	79.98	ug/l	155.56	39.59	1	
Cr	52	45	2	-0.05	-26.48	ug/l	253.34	8.63	1	
Mn	55	45	2	0.11	19.30	ug/l	114.45	16.04	2	
Fe	56	45	2	0.91	17.72	ug/l	4082.25	4.45	30	
Co	59	45	2	-0.01	-54.60	ug/l	38.89	32.45	1	
Ni	60	45	2	-0.04	-17.24	ug/l	28.89	17.63	1	
Cu	63	45	2	-0.06	-5.91	ug/l	351.13	1.45	1	
Zn	66	45	2	-0.58	-19.25	ug/l	155.56	15.80	4	
As	75	74	2	0.03	93.04	ug/l	9.44	36.71	0.5	
Se	78	74	1	0.01	81.34	ug/l	5.89	8.66	0.5	
Sr	88	115	2	0.01	69.87	ug/l	14.45	26.66	1	
Mo	95	115	2	0.01	292.42	ug/l	35.56	44.32	1	
Ag	107	115	2	-0.04	-10.66	ug/l	22.22	43.28	1	
Cd	111	115	2	-0.01	-178.50	ug/l	2.22	173.21	0.5	
Sn	118	115	2	0.02	179.45	ug/l	71.11	33.92	4	
Sb	121	115	2	-0.26	-7.50	ug/l	90.00	14.82	0.5	
Ba	137	159	2	0.09	51.43	ug/l	33.33	40.01	1	
Tl	205	209	2	0.00	-106.82	ug/l	70.00	19.05	0.2	
Pb	208	209	2	0.00	9.59	ug/l	205.56	0.94	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20271	0.95	21135	95.9	60	120	
Sc	45	2	151833	0.96	130618	116.2	60	120	
Ge	74	1	60806	0.63	56992	106.7	60	120	
Ge	74	2	18277	1.03	16732	109.2	60	120	
Kr	83	2	36	35.49	23	152.4	-1000	1000	
In	115	2	99398	0.74	90201	110.2	60	120	
Tb	159	2	356842	0.22	337743	105.7	60	120	
Bi	209	2	294503	0.78	286349	102.8	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**120LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:38:04-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.37	14.79	ug/l	40.11	13.20	0.4	91.7	70	130	
B	11	6	2	43.75	1.68	ug/l	1590.66	1.33	40	109.4	70	130	
Na	23	45	2	103.86	1.50	ug/l	92633.67	0.84	100	103.9	70	130	
Mg	24	45	2	98.60	1.61	ug/l	24731.77	1.93	100	98.6	70	130	
Al	27	45	2	21.47	2.27	ug/l	2017.38	1.78	20	107.3	70	130	
K	39	45	2	114.75	15.76	ug/l	42412.35	6.66	100	114.8	70	130	
Ca	44	45	2	102.83	8.22	ug/l	1021.72	5.80	100	102.8	70	130	
Ti	47	45	2	2.05	5.58	ug/l	98.34	5.08	2	102.3	70	130	
V	51	45	2	2.03	0.56	ug/l	3082.62	0.72	2	101.6	70	130	
Cr	52	45	2	1.86	4.69	ug/l	3709.44	4.16	2	92.8	70	130	
Mn	55	45	2	4.04	2.34	ug/l	3667.21	2.29	4	101.1	70	130	
Fe	56	45	2	60.58	0.54	ug/l	84440.92	0.73	60	101.0	70	130	
Co	59	45	2	1.97	4.42	ug/l	5614.51	4.72	2	98.6	70	130	
Ni	60	45	2	1.81	3.88	ug/l	1464.56	4.13	2	90.6	70	130	
Cu	63	45	2	1.81	1.01	ug/l	4232.93	1.14	2	90.7	70	130	
Zn	66	45	2	7.22	5.16	ug/l	1923.51	4.05	8	90.3	70	130	
As	75	74	2	1.13	2.48	ug/l	165.56	2.91	1	113.3	70	130	
Se	78	74	1	4.72	4.63	ug/l	526.79	4.62	5	94.4	70	130	
Sr	88	115	2	2.22	1.28	ug/l	1842.39	0.86	2	110.9	70	130	
Mo	95	115	2	1.88	5.58	ug/l	1534.58	5.37	2	94.1	70	130	
Ag	107	115	2	0.96	6.40	ug/l	2544.74	5.77	1	96.4	70	130	
Cd	111	115	2	0.89	22.29	ug/l	274.46	22.04	1	89.0	70	130	
Sn	118	115	2	8.06	0.46	ug/l	5266.65	0.60	8	100.8	70	130	
Sb	121	115	2	0.75	6.93	ug/l	818.94	4.75	1	74.7	70	130	
Ba	137	159	2	2.11	13.61	ug/l	604.48	13.12	2	105.4	70	130	
Tl	205	209	2	0.40	8.94	ug/l	2518.09	9.24	0.4	100.0	70	130	
(Pb)	206	209	2	0.59	2.65	ug/l	1170.09	1.99	0.6	98.1	70	130	
(Pb)	207	209	2	0.60	0.97	ug/l	1122.31	0.34	0.6	100.6	70	130	
Pb	208	209	2	0.60	2.27	ug/l	4948.30	1.72	0.6	100.8	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20929	0.25	21135	99.0	60	120	
Sc	45	2	152238	0.44	130618	116.6	60	120	
Ge	74	1	61276	0.29	56992	107.5	60	120	
Ge	74	2	18425	1.70	16732	110.1	60	120	
Kr	83	2	51	27.15	23	219.1	-1000	1000	
In	115	2	100226	0.61	90201	111.1	60	120	
Tb	159	2	355254	0.53	337743	105.2	60	120	
Bi	209	2	295000	0.64	286349	103.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152048-A-3-B@20**
Data File Name	**121SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:41:26-05:00**
Type	**Sample**
VialNumber	**3309**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.29	5.86	ug/l	900	
Pb	208	209	2	8.54	170.77	ug/l	3600	
Tl	205	209	2	0.11	2.20	ug/l	720	
Ba	137	159	2	57.24	1144.83	ug/l	3600	
Sb	121	115	2	-0.15	-2.92	ug/l	3600	
Sn	118	115	2	1.61	32.11	ug/l	3600	
Cd	111	115	2	0.00	-0.06	ug/l	3600	
Ag	107	115	2	-0.03	-0.55	ug/l	450	
Mo	95	115	2	0.65	13.02	ug/l	3600	
Sr	88	115	2	4.63	92.60	ug/l	3600	
As	75	74	2	5.06	101.17	ug/l	3600	
Zn	66	45	2	24.12	482.46	ug/l	900	
Cu	63	45	2	6.02	120.31	ug/l	450	
Ni	60	45	2	8.72	174.32	ug/l	900	
Co	59	45	2	3.89	77.88	ug/l	1800	
Fe	56	45	2	16534.80	330696.05	ug/l	45000	
Mn	55	45	2	136.99	2739.86	ug/l	18000	
Cr	52	45	2	18.87	377.37	ug/l	3600	
V	51	45	2	27.15	542.90	ug/l	3600	
Ti	47	45	2	342.95	6858.98	ug/l	3600	
Ca	44	45	2	707.68	14153.55	ug/l	360000	
K	39	45	2	831.72	16634.36	ug/l	360000	
Al	27	45	2	15151.82	303036.48	ug/l	36000	
Mg	24	45	2	1514.25	30285.02	ug/l	360000	
Na	23	45	2	48.08	961.60	ug/l	360000	
B	11	6	2	5.22	104.33	ug/l	7200	
Be	9	6	2	0.41	8.16	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57550	1.55	56992	101.0	60	120	
Bi	209	2	283978	0.34	286349	99.2	60	120	
Tb	159	2	350798	0.71	337743	103.9	60	120	
In	115	2	96658	0.74	90201	107.2	60	120	
Kr	83	2	42	31.91	23	181.0	-1000	1000	
Ge	74	2	17947	1.37	16732	107.3	60	120	
Sc	45	2	150886	1.27	130618	115.5	60	120	
Li	6	2	19019	0.91	21135	90.0	60	120	

Sample Report

Sample Name	**460-152048-A-5-B@20**
Data File Name	**122SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:44:42-05:00**
Type	**Sample**
VialNumber	**3310**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.23	4.53	ug/l	900	
Pb	208	209	2	19.11	382.26	ug/l	3600	
Tl	205	209	2	0.10	2.02	ug/l	720	
Ba	137	159	2	61.66	1233.21	ug/l	3600	
Sb	121	115	2	-0.16	-3.15	ug/l	3600	
Sn	118	115	2	1.62	32.30	ug/l	3600	
Cd	111	115	2	0.03	0.69	ug/l	3600	
Ag	107	115	2	-0.02	-0.31	ug/l	450	
Mo	95	115	2	0.38	7.50	ug/l	3600	
Sr	88	115	2	4.44	88.74	ug/l	3600	
As	75	74	2	5.81	116.18	ug/l	3600	
Zn	66	45	2	24.63	492.59	ug/l	900	
Cu	63	45	2	7.46	149.15	ug/l	450	
Ni	60	45	2	7.38	147.52	ug/l	900	
Co	59	45	2	3.96	79.27	ug/l	1800	
Fe	56	45	2	10437.98	208759.57	ug/l	45000	
Mn	55	45	2	239.57	4791.36	ug/l	18000	
Cr	52	45	2	12.37	247.47	ug/l	3600	
V	51	45	2	18.29	365.83	ug/l	3600	
Ti	47	45	2	212.31	4246.29	ug/l	3600	
Ca	44	45	2	940.36	18807.23	ug/l	360000	
K	39	45	2	617.63	12352.66	ug/l	360000	
Al	27	45	2	10147.21	202944.21	ug/l	36000	
Mg	24	45	2	1310.77	26215.36	ug/l	360000	
Na	23	45	2	44.03	880.64	ug/l	360000	
B	11	6	2	2.10	41.97	ug/l	7200	
Be	9	6	2	0.62	12.31	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57439	0.79	56992	100.8	60	120	
Bi	209	2	281762	0.86	286349	98.4	60	120	
Tb	159	2	352665	0.72	337743	104.4	60	120	
In	115	2	96795	1.01	90201	107.3	60	120	
Kr	83	2	58	20.26	23	247.6	-1000	1000	
Ge	74	2	17878	1.21	16732	106.8	60	120	
Sc	45	2	150203	0.99	130618	115.0	60	120	
Li	6	2	18723	0.73	21135	88.6	60	120	

Sample Report

Sample Name	**460-152048-A-7-B@20**
Data File Name	**123SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:48:00-05:00**
Type	**Sample**
VialNumber	**3311**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	4.15	ug/l	900	
Pb	208	209	2	20.14	402.79	ug/l	3600	
Tl	205	209	2	0.09	1.83	ug/l	720	
Ba	137	159	2	58.81	1176.22	ug/l	3600	
Sb	121	115	2	-0.15	-2.94	ug/l	3600	
Sn	118	115	2	1.54	30.77	ug/l	3600	
Cd	111	115	2	0.07	1.38	ug/l	3600	
Ag	107	115	2	-0.02	-0.36	ug/l	450	
Mo	95	115	2	0.39	7.80	ug/l	3600	
Sr	88	115	2	4.05	80.93	ug/l	3600	
As	75	74	2	5.37	107.40	ug/l	3600	
Zn	66	45	2	24.19	483.72	ug/l	900	
Cu	63	45	2	7.40	148.09	ug/l	450	
Ni	60	45	2	7.24	144.85	ug/l	900	
Co	59	45	2	3.84	76.74	ug/l	1800	
Fe	56	45	2	10121.89	202437.89	ug/l	45000	
Mn	55	45	2	234.81	4696.29	ug/l	18000	
Cr	52	45	2	12.40	248.01	ug/l	3600	
V	51	45	2	18.38	367.63	ug/l	3600	
Ti	47	45	2	201.73	4034.65	ug/l	3600	
Ca	44	45	2	1013.92	20278.30	ug/l	360000	
K	39	45	2	651.75	13034.97	ug/l	360000	
Al	27	45	2	9952.96	199059.20	ug/l	36000	
Mg	24	45	2	1290.77	25815.36	ug/l	360000	
Na	23	45	2	42.99	859.77	ug/l	360000	
B	11	6	2	1.29	25.87	ug/l	7200	
Be	9	6	2	0.57	11.39	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57646	1.38	56992	101.1	60	120	
Bi	209	2	282679	0.79	286349	98.7	60	120	
Tb	159	2	355072	0.51	337743	105.1	60	120	
In	115	2	96739	1.07	90201	107.2	60	120	
Kr	83	2	66	7.77	23	281.0	-1000	1000	
Ge	74	2	17931	1.01	16732	107.2	60	120	
Sc	45	2	150169	0.95	130618	115.0	60	120	
Li	6	2	18671	1.32	21135	88.3	60	120	

Sample Report

Sample Name	**460-152048-E-8-F@20**
Data File Name	**124SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T21:58:34-05:00**
Type	**Sample**
VialNumber	**3312**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.16	3.29	ug/l	900	
Pb	208	209	2	16.54	330.81	ug/l	3600	
Tl	205	209	2	0.08	1.64	ug/l	720	
Ba	137	159	2	60.81	1216.26	ug/l	3600	
Sb	121	115	2	-0.14	-2.85	ug/l	3600	
Sn	118	115	2	1.57	31.44	ug/l	3600	
Cd	111	115	2	0.08	1.66	ug/l	3600	
Ag	107	115	2	-0.01	-0.24	ug/l	450	
Mo	95	115	2	0.47	9.47	ug/l	3600	
Sr	88	115	2	4.33	86.60	ug/l	3600	
As	75	74	2	5.47	109.40	ug/l	3600	
Zn	66	45	2	25.49	509.81	ug/l	900	
Cu	63	45	2	7.13	142.53	ug/l	450	
Ni	60	45	2	6.80	136.10	ug/l	900	
Co	59	45	2	3.52	70.36	ug/l	1800	
Fe	56	45	2	9702.43	194048.60	ug/l	45000	
Mn	55	45	2	233.22	4664.41	ug/l	18000	
Cr	52	45	2	11.48	229.57	ug/l	3600	
V	51	45	2	16.48	329.55	ug/l	3600	
Ti	47	45	2	190.55	3811.01	ug/l	3600	
Ca	44	45	2	1377.06	27541.11	ug/l	360000	
K	39	45	2	533.36	10667.29	ug/l	360000	
Al	27	45	2	9373.86	187477.13	ug/l	36000	
Mg	24	45	2	1420.88	28417.51	ug/l	360000	
Na	23	45	2	43.81	876.20	ug/l	360000	
B	11	6	2	-0.22	-4.49	ug/l	7200	
Be	9	6	2	0.55	10.95	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58129	1.29	56992	102.0	60	120	
Bi	209	2	283578	0.75	286349	99.0	60	120	
Tb	159	2	356443	0.19	337743	105.5	60	120	
In	115	2	97715	0.77	90201	108.3	60	120	
Kr	83	2	54	19.68	23	233.3	-1000	1000	
Ge	74	2	17756	0.41	16732	106.1	60	120	
Sc	45	2	148764	1.11	130618	113.9	60	120	
Li	6	2	19043	0.88	21135	90.1	60	120	

Sample Report

Sample Name	**460-152048-E-9-D@20**
Data File Name	**125SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:01:52-05:00**
Type	**Sample**
VialNumber	**3401**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	4.22	ug/l	900	
Pb	208	209	2	20.61	412.29	ug/l	3600	
Tl	205	209	2	0.09	1.89	ug/l	720	
Ba	137	159	2	62.65	1252.97	ug/l	3600	
Sb	121	115	2	-0.15	-3.05	ug/l	3600	
Sn	118	115	2	1.63	32.54	ug/l	3600	
Cd	111	115	2	0.12	2.44	ug/l	3600	
Ag	107	115	2	-0.02	-0.43	ug/l	450	
Mo	95	115	2	0.50	9.93	ug/l	3600	
Sr	88	115	2	4.63	92.68	ug/l	3600	
As	75	74	2	5.27	105.47	ug/l	3600	
Zn	66	45	2	23.68	473.60	ug/l	900	
Cu	63	45	2	7.60	152.07	ug/l	450	
Ni	60	45	2	6.94	138.74	ug/l	900	
Co	59	45	2	3.66	73.28	ug/l	1800	
Fe	56	45	2	10168.94	203378.83	ug/l	45000	
Mn	55	45	2	245.64	4912.70	ug/l	18000	
Cr	52	45	2	12.19	243.73	ug/l	3600	
V	51	45	2	17.88	357.63	ug/l	3600	
Ti	47	45	2	220.99	4419.84	ug/l	3600	
Ca	44	45	2	1063.92	21278.38	ug/l	360000	
K	39	45	2	644.11	12882.30	ug/l	360000	
Al	27	45	2	9499.84	189996.88	ug/l	36000	
Mg	24	45	2	1263.48	25269.65	ug/l	360000	
Na	23	45	2	41.03	820.61	ug/l	360000	
B	11	6	2	1.69	33.83	ug/l	7200	
Be	9	6	2	0.58	11.54	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57213	0.86	56992	100.4	60	120	
Bi	209	2	281243	0.69	286349	98.2	60	120	
Tb	159	2	352025	0.89	337743	104.2	60	120	
In	115	2	96520	0.69	90201	107.0	60	120	
Kr	83	2	71	5.41	23	304.8	-1000	1000	
Ge	74	2	17904	0.24	16732	107.0	60	120	
Sc	45	2	148459	0.61	130618	113.7	60	120	
Li	6	2	18747	0.93	21135	88.7	60	120	

Sample Report

Sample Name	**460-152048-E-10-D@20**
Data File Name	**126SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:05:09-05:00**
Type	**Sample**
VialNumber	**3402**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.72	ug/l	900	
Pb	208	209	2	17.44	348.85	ug/l	3600	
Tl	205	209	2	0.09	1.71	ug/l	720	
Ba	137	159	2	54.56	1091.10	ug/l	3600	
Sb	121	115	2	-0.15	-2.91	ug/l	3600	
Sn	118	115	2	1.52	30.39	ug/l	3600	
Cd	111	115	2	0.06	1.28	ug/l	3600	
Ag	107	115	2	-0.02	-0.42	ug/l	450	
Mo	95	115	2	0.39	7.79	ug/l	3600	
Sr	88	115	2	4.01	80.28	ug/l	3600	
As	75	74	2	5.21	104.20	ug/l	3600	
Zn	66	45	2	21.74	434.82	ug/l	900	
Cu	63	45	2	7.34	146.80	ug/l	450	
Ni	60	45	2	6.65	133.01	ug/l	900	
Co	59	45	2	3.50	70.07	ug/l	1800	
Fe	56	45	2	9342.29	186845.83	ug/l	45000	
Mn	55	45	2	208.62	4172.44	ug/l	18000	
Cr	52	45	2	11.33	226.68	ug/l	3600	
V	51	45	2	16.41	328.12	ug/l	3600	
Ti	47	45	2	200.02	4000.42	ug/l	3600	
Ca	44	45	2	877.15	17543.08	ug/l	360000	
K	39	45	2	595.76	11915.12	ug/l	360000	
Al	27	45	2	8965.03	179300.53	ug/l	36000	
Mg	24	45	2	1137.96	22759.27	ug/l	360000	
Na	23	45	2	38.49	769.85	ug/l	360000	
B	11	6	2	0.95	19.09	ug/l	7200	
Be	9	6	2	0.53	10.60	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57115	0.73	56992	100.2	60	120	
Bi	209	2	282505	1.14	286349	98.7	60	120	
Tb	159	2	353463	0.75	337743	104.7	60	120	
In	115	2	97702	1.01	90201	108.3	60	120	
Kr	83	2	52	19.51	23	223.8	-1000	1000	
Ge	74	2	17723	0.83	16732	105.9	60	120	
Sc	45	2	148995	0.42	130618	114.1	60	120	
Li	6	2	18783	1.27	21135	88.9	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**127SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:08:32-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.02	0.02	ug/l	3600	
Sb	121	115	2	-0.29	-0.29	ug/l	3600	
Sn	118	115	2	0.00	0.00	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.21	0.21	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.00	0.00	ug/l	3600	
Zn	66	45	2	-0.42	-0.42	ug/l	900	
Cu	63	45	2	-0.01	-0.01	ug/l	450	
Ni	60	45	2	0.00	0.00	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.98	0.98	ug/l	45000	
Mn	55	45	2	0.04	0.04	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.08	0.08	ug/l	3600	
Ti	47	45	2	0.09	0.09	ug/l	3600	
Ca	44	45	2	-1.39	-1.39	ug/l	360000	
K	39	45	2	11.72	11.72	ug/l	360000	
Al	27	45	2	1.07	1.07	ug/l	36000	
Mg	24	45	2	0.78	0.78	ug/l	360000	
Na	23	45	2	9.47	9.47	ug/l	360000	
B	11	6	2	-1.05	-1.05	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60194	0.29	56992	105.6	60	120	
Bi	209	2	291505	1.32	286349	101.8	60	120	
Tb	159	2	353151	0.51	337743	104.6	60	120	
In	115	2	99045	0.90	90201	109.8	60	120	
Kr	83	2	34	20.14	23	147.6	-1000	1000	
Ge	74	2	18108	0.53	16732	108.2	60	120	
Sc	45	2	150056	0.35	130618	114.9	60	120	
Li	6	2	19950	1.85	21135	94.4	60	120	

Sample Report

Sample Name	**460-152048-E-11-D@20**
Data File Name	**128SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:11:55-05:00**
Type	**Sample**
VialNumber	**3403**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.15	3.05	ug/l	900	
Pb	208	209	2	17.32	346.38	ug/l	3600	
Tl	205	209	2	0.08	1.69	ug/l	720	
Ba	137	159	2	51.01	1020.13	ug/l	3600	
Sb	121	115	2	-0.19	-3.76	ug/l	3600	
Sn	118	115	2	1.53	30.70	ug/l	3600	
Cd	111	115	2	0.05	1.00	ug/l	3600	
Ag	107	115	2	-0.02	-0.40	ug/l	450	
Mo	95	115	2	0.34	6.75	ug/l	3600	
Sr	88	115	2	3.99	79.83	ug/l	3600	
As	75	74	2	5.84	116.74	ug/l	3600	
Zn	66	45	2	20.45	409.03	ug/l	900	
Cu	63	45	2	7.88	157.69	ug/l	450	
Ni	60	45	2	6.21	124.16	ug/l	900	
Co	59	45	2	3.27	65.46	ug/l	1800	
Fe	56	45	2	8603.53	172070.64	ug/l	45000	
Mn	55	45	2	203.78	4075.51	ug/l	18000	
Cr	52	45	2	10.64	212.86	ug/l	3600	
V	51	45	2	15.50	309.94	ug/l	3600	
Ti	47	45	2	188.79	3775.81	ug/l	3600	
Ca	44	45	2	770.77	15415.45	ug/l	360000	
K	39	45	2	521.13	10422.61	ug/l	360000	
Al	27	45	2	8624.26	172485.17	ug/l	36000	
Mg	24	45	2	1035.18	20703.58	ug/l	360000	
Na	23	45	2	41.38	827.59	ug/l	360000	
B	11	6	2	-0.38	-7.54	ug/l	7200	
Be	9	6	2	0.50	10.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57002	0.64	56992	100.0	60	120	
Bi	209	2	282722	0.30	286349	98.7	60	120	
Tb	159	2	353191	0.43	337743	104.6	60	120	
In	115	2	96788	0.48	90201	107.3	60	120	
Kr	83	2	53	27.24	23	228.6	-1000	1000	
Ge	74	2	17880	1.76	16732	106.9	60	120	
Sc	45	2	148896	0.41	130618	114.0	60	120	
Li	6	2	19519	0.20	21135	92.4	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**129SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:15:20-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.33	-0.33	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.17	0.17	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.01	0.01	ug/l	3600	
As	75	74	2	-0.02	-0.02	ug/l	3600	
Zn	66	45	2	-0.42	-0.42	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	0.87	0.87	ug/l	45000	
Mn	55	45	2	0.03	0.03	ug/l	18000	
Cr	52	45	2	-0.05	-0.05	ug/l	3600	
V	51	45	2	0.06	0.06	ug/l	3600	
Ti	47	45	2	-0.01	-0.01	ug/l	3600	
Ca	44	45	2	-0.24	-0.24	ug/l	360000	
K	39	45	2	13.67	13.67	ug/l	360000	
Al	27	45	2	1.05	1.05	ug/l	36000	
Mg	24	45	2	0.72	0.72	ug/l	360000	
Na	23	45	2	8.70	8.70	ug/l	360000	
B	11	6	2	0.16	0.16	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59783	0.62	56992	104.9	60	120	
Bi	209	2	291733	0.39	286349	101.9	60	120	
Tb	159	2	350489	0.31	337743	103.8	60	120	
In	115	2	99184	0.41	90201	110.0	60	120	
Kr	83	2	43	23.07	23	185.7	-1000	1000	
Ge	74	2	18029	0.68	16732	107.8	60	120	
Sc	45	2	149625	0.43	130618	114.6	60	120	
Li	6	2	19927	0.21	21135	94.3	60	120	

Sample Report

Sample Name	**460-152048-E-12-D@20**
Data File Name	**130SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:18:41-05:00**
Type	**Sample**
VialNumber	**3404**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	4.17	ug/l	900	
Pb	208	209	2	15.60	312.05	ug/l	3600	
Tl	205	209	2	0.10	2.01	ug/l	720	
Ba	137	159	2	61.73	1234.61	ug/l	3600	
Sb	121	115	2	-0.18	-3.68	ug/l	3600	
Sn	118	115	2	1.61	32.27	ug/l	3600	
Cd	111	115	2	0.04	0.85	ug/l	3600	
Ag	107	115	2	-0.02	-0.37	ug/l	450	
Mo	95	115	2	0.67	13.38	ug/l	3600	
Sr	88	115	2	4.82	96.44	ug/l	3600	
As	75	74	2	4.42	88.41	ug/l	3600	
Zn	66	45	2	23.75	475.07	ug/l	900	
Cu	63	45	2	6.40	128.08	ug/l	450	
Ni	60	45	2	7.29	145.73	ug/l	900	
Co	59	45	2	3.84	76.79	ug/l	1800	
Fe	56	45	2	10111.62	202232.48	ug/l	45000	
Mn	55	45	2	250.07	5001.33	ug/l	18000	
Cr	52	45	2	12.09	241.84	ug/l	3600	
V	51	45	2	17.66	353.20	ug/l	3600	
Ti	47	45	2	212.10	4241.95	ug/l	3600	
Ca	44	45	2	938.19	18763.79	ug/l	360000	
K	39	45	2	602.62	12052.49	ug/l	360000	
Al	27	45	2	10003.64	200072.77	ug/l	36000	
Mg	24	45	2	1323.10	26461.94	ug/l	360000	
Na	23	45	2	42.14	842.83	ug/l	360000	
B	11	6	2	0.37	7.36	ug/l	7200	
Be	9	6	2	0.58	11.69	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57414	1.50	56992	100.7	60	120	
Bi	209	2	281161	0.46	286349	98.2	60	120	
Tb	159	2	355188	0.50	337743	105.2	60	120	
In	115	2	96367	0.31	90201	106.8	60	120	
Kr	83	2	51	37.09	23	219.1	-1000	1000	
Ge	74	2	17645	2.05	16732	105.5	60	120	
Sc	45	2	147607	0.84	130618	113.0	60	120	
Li	6	2	18945	1.04	21135	89.6	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1316CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:21:59-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.96	1.72	ug/l	4805.94	1.07	50	101.9	90	110	
B	11	6	2	104.32	2.45	ug/l	2908.64	2.73	100	104.3	90	110	
Na	23	45	2	4997.49	1.02	ug/l	2544412.29	1.62	5000	99.9	90	110	
Mg	24	45	2	4886.82	1.11	ug/l	1201925.25	1.85	5000	97.7	90	110	
Al	27	45	2	500.34	2.37	ug/l	44752.65	3.10	500	100.1	90	110	
K	39	45	2	5128.94	0.81	ug/l	852928.25	1.42	5000	102.6	90	110	
Ca	44	45	2	5075.30	0.42	ug/l	37934.76	0.94	5000	101.5	90	110	
Ti	47	45	2	50.94	3.29	ug/l	2344.10	2.87	50	101.9	90	110	
V	51	45	2	47.72	0.34	ug/l	69730.33	1.02	50	95.4	90	110	
Cr	52	45	2	47.19	0.72	ug/l	84838.19	0.05	50	94.4	90	110	
Mn	55	45	2	492.71	0.39	ug/l	439589.08	0.71	500	98.5	90	110	
Fe	56	45	2	4841.63	0.40	ug/l	6441825.46	0.35	5000	96.8	90	110	
Co	59	45	2	46.78	0.36	ug/l	130099.12	1.01	50	93.6	90	110	
Ni	60	45	2	46.79	0.91	ug/l	35892.84	0.88	50	93.6	90	110	
Cu	63	45	2	46.77	0.73	ug/l	96295.61	1.25	50	93.5	90	110	
Zn	66	45	2	46.01	3.17	ug/l	10569.42	2.35	50	92.0	90	110	
As	75	74	2	50.34	2.24	ug/l	7006.11	1.85	50	100.7	90	110	
Se	78	74	1	48.83	1.27	ug/l	5260.79	0.44	50	97.7	90	110	
Sr	88	115	2	53.04	1.48	ug/l	42846.76	1.52	50	106.1	90	110	
Mo	95	115	2	48.79	0.11	ug/l	38106.80	0.40	50	97.6	90	110	
Ag	107	115	2	47.90	0.72	ug/l	118117.92	0.33	50	95.8	90	110	
Cd	111	115	2	47.30	2.81	ug/l	14021.37	2.83	50	94.6	90	110	
Sn	118	115	2	48.80	1.67	ug/l	30845.67	1.39	50	97.6	90	110	
Sb	121	115	2	51.34	0.10	ug/l	36539.31	0.42	50	102.7	90	110	
Ba	137	159	2	52.00	2.45	ug/l	14655.45	2.00	50	104.0	90	110	
Tl	205	209	2	9.86	1.32	ug/l	57920.85	0.84	10	98.6	90	110	
Pb	208	209	2	50.48	0.90	ug/l	383982.44	0.47	50	101.0	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20159	0.90	21135	95.4	60	120	
Sc	45	2	150376	0.74	130618	115.1	60	120	
Ge	74	1	59711	0.85	56992	104.8	60	120	
Ge	74	2	18169	0.71	16732	108.6	60	120	
Kr	83	2	51	9.96	23	219.1	-1000	1000	
In	115	2	97897	0.50	90201	108.5	60	120	
Tb	159	2	353204	0.46	337743	104.6	60	120	
Bi	209	2	284270	1.32	286349	99.3	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1326CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:26:04-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-26.95	ug/l	1.67	39.90	0.2	
B	11	6	2	0.23	731.50	ug/l	552.80	6.37	20	
Na	23	45	2	2.64	26.69	ug/l	40576.84	1.39	50	
Mg	24	45	2	0.90	13.89	ug/l	403.35	7.21	50	
Al	27	45	2	0.38	58.46	ug/l	110.00	18.62	10	
K	39	45	2	11.83	162.88	ug/l	25126.21	11.78	50	
Ca	44	45	2	-2.45	-189.94	ug/l	226.67	15.72	50	
Ti	47	45	2	0.07	161.52	ug/l	6.11	78.81	1	
V	51	45	2	0.05	60.35	ug/l	154.45	29.46	1	
Cr	52	45	2	-0.05	-7.55	ug/l	247.79	2.80	1	
Mn	55	45	2	0.08	18.70	ug/l	88.89	15.16	2	
Fe	56	45	2	0.78	11.08	ug/l	3862.76	2.66	30	
Co	59	45	2	-0.01	-40.62	ug/l	33.33	34.64	1	
Ni	60	45	2	-0.05	-18.85	ug/l	22.22	31.22	1	
Cu	63	45	2	-0.05	-22.48	ug/l	353.35	7.55	1	
Zn	66	45	2	-0.54	-11.95	ug/l	163.34	8.90	4	
As	75	74	2	0.01	294.16	ug/l	6.67	43.30	0.5	
Se	78	74	1	0.00	80.06	ug/l	5.56	3.53	0.5	
Sr	88	115	2	0.01	56.47	ug/l	17.78	28.64	1	
Mo	95	115	2	-0.01	-123.32	ug/l	23.33	37.78	1	
Ag	107	115	2	-0.04	-6.95	ug/l	20.00	33.35	1	
Cd	111	115	2	0.00	62015.31	ug/l	4.44	173.21	0.5	
Sn	118	115	2	0.03	88.42	ug/l	74.45	20.19	4	
Sb	121	115	2	-0.31	-6.36	ug/l	56.67	25.64	0.5	
Ba	137	159	2	0.09	43.51	ug/l	32.22	33.25	1	
Tl	205	209	2	0.00	-537.08	ug/l	80.00	15.03	0.2	
Pb	208	209	2	0.00	-532.46	ug/l	170.01	15.69	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20515	0.62	21135	97.1	60	120	
Sc	45	2	149685	0.57	130618	114.6	60	120	
Ge	74	1	60443	0.66	56992	106.1	60	120	
Ge	74	2	18241	0.42	16732	109.0	60	120	
Kr	83	2	41	18.72	23	176.2	-1000	1000	
In	115	2	99673	1.03	90201	110.5	60	120	
Tb	159	2	354885	0.87	337743	105.1	60	120	
Bi	209	2	291843	0.29	286349	101.9	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**133LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:29:25-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.37	23.57	ug/l	40.33	20.75	0.4	92.3	70	130	
B	11	6	2	42.13	4.29	ug/l	1552.32	1.69	40	105.3	70	130	
Na	23	45	2	100.42	1.03	ug/l	89041.05	0.45	100	100.4	70	130	
Mg	24	45	2	98.57	0.93	ug/l	24225.45	1.79	100	98.6	70	130	
Al	27	45	2	20.58	1.93	ug/l	1897.92	2.54	20	102.9	70	130	
K	39	45	2	117.90	19.13	ug/l	42041.45	7.58	100	117.9	70	130	
Ca	44	45	2	109.37	3.00	ug/l	1049.50	3.10	100	109.4	70	130	
Ti	47	45	2	2.12	20.61	ug/l	100.00	20.21	2	106.2	70	130	
V	51	45	2	2.00	4.64	ug/l	2974.82	5.35	2	100.0	70	130	
Cr	52	45	2	1.88	1.87	ug/l	3676.10	0.68	2	94.0	70	130	
Mn	55	45	2	4.39	2.87	ug/l	3896.17	2.84	4	109.7	70	130	
Fe	56	45	2	61.00	0.81	ug/l	83275.88	0.61	60	101.7	70	130	
Co	59	45	2	2.00	4.37	ug/l	5573.40	4.42	2	100.0	70	130	
Ni	60	45	2	1.94	9.62	ug/l	1534.57	10.25	2	97.1	70	130	
Cu	63	45	2	1.91	1.56	ug/l	4341.85	2.28	2	95.5	70	130	
Zn	66	45	2	7.27	5.86	ug/l	1894.62	5.63	8	90.8	70	130	
As	75	74	2	1.05	7.07	ug/l	150.56	5.46	1	105.1	70	130	
Se	78	74	1	4.91	3.25	ug/l	542.12	2.89	5	98.2	70	130	
Sr	88	115	2	2.09	4.32	ug/l	1724.60	4.13	2	104.6	70	130	
Mo	95	115	2	1.99	2.44	ug/l	1609.03	2.76	2	99.6	70	130	
Ag	107	115	2	0.93	2.50	ug/l	2443.61	2.27	1	93.2	70	130	
Cd	111	115	2	0.93	8.69	ug/l	285.57	8.76	1	93.5	70	130	
Sn	118	115	2	7.84	2.45	ug/l	5078.82	2.49	8	98.0	70	130	
Sb	121	115	2	0.75	13.04	ug/l	816.72	8.48	1	75.4	70	130	
Ba	137	159	2	2.24	5.79	ug/l	635.59	5.78	2	111.9	70	130	
Tl	205	209	2	0.39	5.63	ug/l	2453.63	5.68	0.4	98.4	70	130	
(Pb)	206	209	2	0.59	6.41	ug/l	1165.65	6.12	0.6	98.8	70	130	
(Pb)	207	209	2	0.60	2.43	ug/l	1100.09	3.37	0.6	99.5	70	130	
Pb	208	209	2	0.60	2.69	ug/l	4877.18	1.76	0.6	100.3	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20933	1.11	21135	99.0	60	120	
Sc	45	2	149156	1.03	130618	114.2	60	120	
Ge	74	1	60679	0.67	56992	106.5	60	120	
Ge	74	2	18032	1.41	16732	107.8	60	120	
Kr	83	2	41	32.78	23	176.2	-1000	1000	
In	115	2	99376	0.36	90201	110.2	60	120	
Tb	159	2	351921	0.62	337743	104.2	60	120	
Bi	209	2	292008	1.05	286349	102.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1346CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:32:44-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.63	0.89	ug/l	4828.94	0.52	50	101.3	90	110	
B	11	6	2	100.22	1.01	ug/l	2846.96	0.86	100	100.2	90	110	
Na	23	45	2	4975.26	0.58	ug/l	2526131.98	1.40	5000	99.5	90	110	
Mg	24	45	2	4881.45	0.41	ug/l	1197185.79	1.21	5000	97.6	90	110	
Al	27	45	2	498.12	1.27	ug/l	44427.31	2.15	500	99.6	90	110	
K	39	45	2	5180.22	0.43	ug/l	858798.20	1.28	5000	103.6	90	110	
Ca	44	45	2	5074.31	1.25	ug/l	37822.79	2.01	5000	101.5	90	110	
Ti	47	45	2	51.90	2.75	ug/l	2381.88	3.47	50	103.8	90	110	
V	51	45	2	48.31	0.45	ug/l	70381.94	1.05	50	96.6	90	110	
Cr	52	45	2	47.64	0.99	ug/l	85422.42	1.87	50	95.3	90	110	
Mn	55	45	2	491.93	0.71	ug/l	437668.86	1.26	500	98.4	90	110	
Fe	56	45	2	4841.68	0.38	ug/l	6423937.41	0.98	5000	96.8	90	110	
Co	59	45	2	46.97	0.21	ug/l	130267.90	1.11	50	93.9	90	110	
Ni	60	45	2	46.58	0.95	ug/l	35635.46	0.71	50	93.2	90	110	
Cu	63	45	2	46.15	0.20	ug/l	94737.43	0.84	50	92.3	90	110	
Zn	66	45	2	46.39	2.05	ug/l	10626.13	1.91	50	92.8	90	110	
As	75	74	2	50.25	0.53	ug/l	7020.00	1.64	50	100.5	90	110	
Se	78	74	1	49.15	0.91	ug/l	5234.33	0.46	50	98.3	90	110	
Sr	88	115	2	53.40	1.25	ug/l	42903.90	0.99	50	106.8	90	110	
Mo	95	115	2	48.14	0.58	ug/l	37399.76	1.68	50	96.3	90	110	
Ag	107	115	2	48.01	0.98	ug/l	117759.47	0.57	50	96.0	90	110	
Cd	111	115	2	47.35	0.56	ug/l	13960.23	2.03	50	94.7	90	110	
Sn	118	115	2	49.50	2.56	ug/l	31111.53	1.95	50	99.0	90	110	
Sb	121	115	2	50.81	0.75	ug/l	35964.55	0.84	50	101.6	90	110	
Ba	137	159	2	51.60	3.76	ug/l	14475.22	3.62	50	103.2	90	110	
Tl	205	209	2	9.82	1.91	ug/l	57530.57	1.20	10	98.2	90	110	
Pb	208	209	2	50.26	1.02	ug/l	381480.31	0.18	50	100.5	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20387	0.78	21135	96.5	60	120	
Sc	45	2	149954	0.90	130618	114.8	60	120	
Ge	74	1	59025	0.52	56992	103.6	60	120	
Ge	74	2	18234	1.36	16732	109.0	60	120	
Kr	83	2	56	9.17	23	238.1	-1000	1000	
In	115	2	97375	1.54	90201	108.0	60	120	
Tb	159	2	351529	0.27	337743	104.1	60	120	
Bi	209	2	283632	1.13	286349	99.1	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1356CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:36:01-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-40.12	ug/l	1.56	65.47	0.2	
B	11	6	2	-0.85	-26.32	ug/l	537.24	1.59	20	
Na	23	45	2	3.84	22.63	ug/l	41305.13	1.01	50	
Mg	24	45	2	1.26	1.65	ug/l	491.14	2.07	50	
Al	27	45	2	0.28	70.96	ug/l	101.11	16.60	10	
K	39	45	2	9.59	232.53	ug/l	24826.86	13.25	50	
Ca	44	45	2	-2.09	-40.40	ug/l	230.01	3.83	50	
Ti	47	45	2	0.00	833.27	ug/l	3.33	49.95	1	
V	51	45	2	0.05	22.53	ug/l	153.34	10.87	1	
Cr	52	45	2	-0.04	-30.79	ug/l	270.01	8.10	1	
Mn	55	45	2	0.10	11.29	ug/l	102.23	9.96	2	
Fe	56	45	2	0.90	4.87	ug/l	4030.59	1.54	30	
Co	59	45	2	0.00	-154.12	ug/l	53.33	25.00	1	
Ni	60	45	2	-0.03	-57.61	ug/l	33.34	45.82	1	
Cu	63	45	2	-0.05	-42.80	ug/l	354.46	11.98	1	
Zn	66	45	2	-0.48	-11.73	ug/l	176.67	6.80	4	
As	75	74	2	0.04	88.87	ug/l	10.56	39.72	0.5	
Se	78	74	1	0.02	56.87	ug/l	7.78	17.35	0.5	
Sr	88	115	2	0.02	28.68	ug/l	22.22	17.33	1	
Mo	95	115	2	-0.01	-89.49	ug/l	24.44	20.83	1	
Ag	107	115	2	-0.04	-3.61	ug/l	20.00	16.65	1	
Cd	111	115	2	0.00	329.57	ug/l	5.55	69.34	0.5	
Sn	118	115	2	0.03	103.76	ug/l	73.34	22.72	4	
Sb	121	115	2	-0.24	-8.07	ug/l	103.34	12.90	0.5	
Ba	137	159	2	0.08	44.46	ug/l	30.00	33.33	1	
Tl	205	209	2	0.00	1067.80	ug/l	84.45	21.74	0.2	
Pb	208	209	2	0.00	117.81	ug/l	190.00	9.28	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20877	2.12	21135	98.8	60	120	
Sc	45	2	150160	1.16	130618	115.0	60	120	
Ge	74	1	60032	1.39	56992	105.3	60	120	
Ge	74	2	18213	2.83	16732	108.9	60	120	
Kr	83	2	39	4.94	23	166.7	-1000	1000	
In	115	2	98834	0.50	90201	109.6	60	120	
Tb	159	2	352340	0.35	337743	104.3	60	120	
Bi	209	2	293760	0.89	286349	102.6	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**136LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:39:23-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.36	6.42	ug/l	38.89	5.17	0.4	89.1	70	130	
B	11	6	2	42.42	2.86	ug/l	1551.77	1.24	40	106.1	70	130	
Na	23	45	2	101.55	3.13	ug/l	89580.72	1.10	100	101.5	70	130	
Mg	24	45	2	98.80	1.00	ug/l	24272.27	0.36	100	98.8	70	130	
Al	27	45	2	21.30	1.06	ug/l	1961.82	1.85	20	106.5	70	130	
K	39	45	2	118.21	17.39	ug/l	42087.16	7.01	100	118.2	70	130	
Ca	44	45	2	102.35	4.38	ug/l	997.27	2.51	100	102.3	70	130	
Ti	47	45	2	1.86	14.50	ug/l	87.78	14.75	2	92.8	70	130	
V	51	45	2	1.98	5.02	ug/l	2949.25	5.42	2	99.1	70	130	
Cr	52	45	2	1.90	1.37	ug/l	3702.77	1.59	2	94.8	70	130	
Mn	55	45	2	4.08	2.17	ug/l	3623.86	2.24	4	102.0	70	130	
Fe	56	45	2	61.05	0.87	ug/l	83330.16	0.38	60	101.8	70	130	
Co	59	45	2	1.92	1.28	ug/l	5365.53	0.87	2	96.2	70	130	
Ni	60	45	2	1.91	7.92	ug/l	1506.79	6.78	2	95.4	70	130	
Cu	63	45	2	1.83	2.93	ug/l	4182.91	2.40	2	91.6	70	130	
Zn	66	45	2	7.09	4.44	ug/l	1853.50	4.15	8	88.6	70	130	
As	75	74	2	1.00	18.68	ug/l	144.45	19.04	1	99.7	70	130	
Se	78	74	1	4.91	2.32	ug/l	539.23	2.08	5	98.3	70	130	
Sr	88	115	2	2.14	4.31	ug/l	1754.60	4.86	2	107.0	70	130	
Mo	95	115	2	1.96	1.83	ug/l	1576.80	1.84	2	98.2	70	130	
Ag	107	115	2	0.95	3.86	ug/l	2486.95	2.67	1	95.5	70	130	
Cd	111	115	2	0.99	7.89	ug/l	301.12	8.16	1	99.2	70	130	
Sn	118	115	2	8.14	1.84	ug/l	5241.09	1.28	8	101.7	70	130	
Sb	121	115	2	0.77	10.18	ug/l	820.05	5.73	1	76.5	70	130	
Ba	137	159	2	2.08	13.66	ug/l	594.48	13.46	2	103.9	70	130	
Tl	205	209	2	0.41	2.01	ug/l	2536.98	2.37	0.4	101.8	70	130	
(Pb)	206	209	2	0.61	0.23	ug/l	1193.43	0.74	0.6	101.1	70	130	
(Pb)	207	209	2	0.60	7.10	ug/l	1097.85	7.03	0.6	99.3	70	130	
Pb	208	209	2	0.60	1.60	ug/l	4839.38	1.64	0.6	99.5	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20830	0.67	21135	98.6	60	120	
Sc	45	2	149123	0.84	130618	114.2	60	120	
Ge	74	1	60296	0.74	56992	105.8	60	120	
Ge	74	2	18169	1.05	16732	108.6	60	120	
Kr	83	2	33	26.45	23	142.9	-1000	1000	
In	115	2	98833	1.06	90201	109.6	60	120	
Tb	159	2	354347	0.30	337743	104.9	60	120	
Bi	209	2	292154	0.52	286349	102.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-151937-E-6-F@20**
Data File Name	**137SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:42:42-05:00**
Type	**Sample**
VialNumber	**3405**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.08	1.68	ug/l	900	
Pb	208	209	2	2.24	44.88	ug/l	3600	
Tl	205	209	2	0.04	0.84	ug/l	720	
Ba	137	159	2	20.14	402.72	ug/l	3600	
Sb	121	115	2	-0.24	-4.86	ug/l	3600	
Sn	118	115	2	1.37	27.45	ug/l	3600	
Cd	111	115	2	-0.01	-0.22	ug/l	3600	
Ag	107	115	2	-0.03	-0.68	ug/l	450	
Mo	95	115	2	0.19	3.83	ug/l	3600	
Sr	88	115	2	4.88	97.69	ug/l	3600	
As	75	74	2	0.82	16.31	ug/l	3600	
Zn	66	45	2	6.01	120.20	ug/l	900	
Cu	63	45	2	0.95	19.09	ug/l	450	
Ni	60	45	2	1.86	37.19	ug/l	900	
Co	59	45	2	0.71	14.20	ug/l	1800	
Fe	56	45	2	2941.06	58821.18	ug/l	45000	
Mn	55	45	2	20.06	401.25	ug/l	18000	
Cr	52	45	2	3.46	69.13	ug/l	3600	
V	51	45	2	5.61	112.27	ug/l	3600	
Ti	47	45	2	106.94	2138.89	ug/l	3600	
Ca	44	45	2	556.55	11131.10	ug/l	360000	
K	39	45	2	150.48	3009.68	ug/l	360000	
Al	27	45	2	3599.89	71997.87	ug/l	36000	
Mg	24	45	2	382.73	7654.53	ug/l	360000	
Na	23	45	2	66.64	1332.81	ug/l	360000	
B	11	6	2	-0.34	-6.70	ug/l	7200	
Be	9	6	2	0.13	2.58	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58189	1.07	56992	102.1	60	120	
Bi	209	2	285660	0.42	286349	99.8	60	120	
Tb	159	2	351494	0.51	337743	104.1	60	120	
In	115	2	96431	0.44	90201	106.9	60	120	
Kr	83	2	34	31.11	23	147.6	-1000	1000	
Ge	74	2	17711	1.72	16732	105.9	60	120	
Sc	45	2	146730	0.68	130618	112.3	60	120	
Li	6	2	19635	0.37	21135	92.9	60	120	

Sample Report

Sample Name	**460-152022-D-1-E@20**
Data File Name	**138SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:46:03-05:00**
Type	**Sample**
VialNumber	**3406**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.29	5.73	ug/l	900	
Pb	208	209	2	4.28	85.69	ug/l	3600	
Tl	205	209	2	0.17	3.36	ug/l	720	
Ba	137	159	2	97.33	1946.67	ug/l	3600	
Sb	121	115	2	-0.26	-5.14	ug/l	3600	
Sn	118	115	2	1.86	37.26	ug/l	3600	
Cd	111	115	2	0.03	0.53	ug/l	3600	
Ag	107	115	2	-0.03	-0.52	ug/l	450	
Mo	95	115	2	4.02	80.31	ug/l	3600	
Sr	88	115	2	17.13	342.68	ug/l	3600	
As	75	74	2	0.85	16.97	ug/l	3600	
Zn	66	45	2	33.17	663.46	ug/l	900	
Cu	63	45	2	23.15	463.05	ug/l	450	
Ni	60	45	2	18.93	378.53	ug/l	900	
Co	59	45	2	10.00	200.03	ug/l	1800	
Fe	56	45	2	24353.72	487074.42	ug/l	45000	
Mn	55	45	2	260.06	5201.25	ug/l	18000	
Cr	52	45	2	27.71	554.19	ug/l	3600	
V	51	45	2	34.46	689.11	ug/l	3600	
Ti	47	45	2	1207.26	24145.20	ug/l	3600	
Ca	44	45	2	5716.46	114329.24	ug/l	360000	
K	39	45	2	3553.61	71072.24	ug/l	360000	
Al	27	45	2	8304.85	166096.94	ug/l	36000	
Mg	24	45	2	6437.39	128747.77	ug/l	360000	
Na	23	45	2	276.65	5532.97	ug/l	360000	
B	11	6	2	3.09	61.77	ug/l	7200	
Be	9	6	2	0.60	12.10	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56912	0.12	56992	99.9	60	120	
Bi	209	2	279031	0.34	286349	97.4	60	120	
Tb	159	2	356205	0.88	337743	105.5	60	120	
In	115	2	97466	0.59	90201	108.1	60	120	
Kr	83	2	57	10.19	23	242.9	-1000	1000	
Ge	74	2	17789	1.13	16732	106.3	60	120	
Sc	45	2	150233	1.19	130618	115.0	60	120	
Li	6	2	18754	1.00	21135	88.7	60	120	

Sample Report

Sample Name	**460-152022-D-2-D@20**
Data File Name	**139SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:49:20-05:00**
Type	**Sample**
VialNumber	**3407**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.33	6.51	ug/l	900	
Pb	208	209	2	65.40	1308.05	ug/l	3600	
Tl	205	209	2	0.10	1.93	ug/l	720	
Ba	137	159	2	72.34	1446.78	ug/l	3600	
Sb	121	115	2	-0.01	-0.16	ug/l	3600	
Sn	118	115	2	6.60	132.00	ug/l	3600	
Cd	111	115	2	0.15	3.08	ug/l	3600	
Ag	107	115	2	0.12	2.42	ug/l	450	
Mo	95	115	2	1.33	26.68	ug/l	3600	
Sr	88	115	2	61.96	1239.18	ug/l	3600	
As	75	74	2	3.04	60.70	ug/l	3600	
Zn	66	45	2	58.40	1167.99	ug/l	900	
Cu	63	45	2	25.97	519.38	ug/l	450	
Ni	60	45	2	9.25	185.02	ug/l	900	
Co	59	45	2	4.37	87.43	ug/l	1800	
Fe	56	45	2	11562.04	231240.80	ug/l	45000	
Mn	55	45	2	165.87	3317.32	ug/l	18000	
Cr	52	45	2	10.49	209.71	ug/l	3600	
V	51	45	2	13.64	272.78	ug/l	3600	
Ti	47	45	2	376.90	7538.03	ug/l	3600	
Ca	44	45	2	12464.61	249292.23	ug/l	360000	
K	39	45	2	1704.03	34080.58	ug/l	360000	
Al	27	45	2	4201.16	84023.13	ug/l	36000	
Mg	24	45	2	2488.32	49766.36	ug/l	360000	
Na	23	45	2	255.78	5115.57	ug/l	360000	
B	11	6	2	2.42	48.31	ug/l	7200	
Be	9	6	2	0.24	4.77	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57514	0.59	56992	100.9	60	120	
Bi	209	2	283622	0.65	286349	99.0	60	120	
Tb	159	2	353555	0.45	337743	104.7	60	120	
In	115	2	97954	0.15	90201	108.6	60	120	
Kr	83	2	48	4.02	23	204.8	-1000	1000	
Ge	74	2	18072	1.39	16732	108.0	60	120	
Sc	45	2	150220	2.05	130618	115.0	60	120	
Li	6	2	18678	1.34	21135	88.4	60	120	

Sample Report

Sample Name	**460-152022-D-3-D@20**
Data File Name	**140SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:52:37-05:00**
Type	**Sample**
VialNumber	**3408**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.22	4.32	ug/l	900	
Pb	208	209	2	600.41	12008.16	ug/l	3600	
Tl	205	209	2	0.06	1.19	ug/l	720	
Ba	137	159	2	49.96	999.20	ug/l	3600	
Sb	121	115	2	9.96	199.16	ug/l	3600	
Sn	118	115	2	466.78	9335.67	ug/l	3600	
Cd	111	115	2	0.07	1.40	ug/l	3600	
Ag	107	115	2	0.25	5.07	ug/l	450	
Mo	95	115	2	0.41	8.18	ug/l	3600	
Sr	88	115	2	11.13	222.64	ug/l	3600	
As	75	74	2	3.69	73.78	ug/l	3600	
Zn	66	45	2	92.41	1848.16	ug/l	900	
Cu	63	45	2	49.48	989.66	ug/l	450	
Ni	60	45	2	12.04	240.77	ug/l	900	
Co	59	45	2	4.82	96.32	ug/l	1800	
Fe	56	45	2	17313.06	346261.12	ug/l	45000	
Mn	55	45	2	130.04	2600.89	ug/l	18000	
Cr	52	45	2	11.66	233.21	ug/l	3600	
V	51	45	2	17.89	357.79	ug/l	3600	
Ti	47	45	2	239.87	4797.43	ug/l	3600	
Ca	44	45	2	1330.66	26613.29	ug/l	360000	
K	39	45	2	1001.44	20028.82	ug/l	360000	
Al	27	45	2	6855.23	137104.51	ug/l	36000	
Mg	24	45	2	2126.11	42522.15	ug/l	360000	
Na	23	45	2	142.43	2848.52	ug/l	360000	
B	11	6	2	6.49	129.89	ug/l	7200	
Be	9	6	2	0.37	7.30	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56637	0.62	56992	99.4	60	120	
Bi	209	2	281093	0.55	286349	98.2	60	120	
Tb	159	2	351518	0.54	337743	104.1	60	120	
In	115	2	95299	0.46	90201	105.7	60	120	
Kr	83	2	50	43.71	23	214.3	-1000	1000	
Ge	74	2	17759	1.62	16732	106.1	60	120	
Sc	45	2	149154	1.36	130618	114.2	60	120	
Li	6	2	18370	1.65	21135	86.9	60	120	

Sample Report

Sample Name	**460-152022-D-4-D@20**
Data File Name	**141SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:55:55-05:00**
Type	**Sample**
VialNumber	**3409**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.09	1.84	ug/l	900	
Pb	208	209	2	5.32	106.48	ug/l	3600	
Tl	205	209	2	0.09	1.90	ug/l	720	
Ba	137	159	2	101.55	2030.98	ug/l	3600	
Sb	121	115	2	-0.21	-4.19	ug/l	3600	
Sn	118	115	2	3.32	66.30	ug/l	3600	
Cd	111	115	2	0.03	0.62	ug/l	3600	
Ag	107	115	2	-0.03	-0.58	ug/l	450	
Mo	95	115	2	0.82	16.40	ug/l	3600	
Sr	88	115	2	18.36	367.10	ug/l	3600	
As	75	74	2	0.78	15.64	ug/l	3600	
Zn	66	45	2	37.26	745.24	ug/l	900	
Cu	63	45	2	15.37	307.46	ug/l	450	
Ni	60	45	2	6.48	129.69	ug/l	900	
Co	59	45	2	6.85	136.91	ug/l	1800	
Fe	56	45	2	24088.40	481768.07	ug/l	45000	
Mn	55	45	2	319.26	6385.24	ug/l	18000	
Cr	52	45	2	6.78	135.67	ug/l	3600	
V	51	45	2	13.78	275.60	ug/l	3600	
Ti	47	45	2	753.31	15066.28	ug/l	3600	
Ca	44	45	2	5280.01	105600.30	ug/l	360000	
K	39	45	2	3439.11	68782.10	ug/l	360000	
Al	27	45	2	5770.30	115405.95	ug/l	36000	
Mg	24	45	2	3549.64	70992.76	ug/l	360000	
Na	23	45	2	255.79	5115.77	ug/l	360000	
B	11	6	2	0.00	-0.07	ug/l	7200	
Be	9	6	2	0.28	5.62	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56213	1.02	56992	98.6	60	120	
Bi	209	2	279329	0.77	286349	97.5	60	120	
Tb	159	2	357547	0.07	337743	105.9	60	120	
In	115	2	96480	0.63	90201	107.0	60	120	
Kr	83	2	81	30.29	23	347.6	-1000	1000	
Ge	74	2	17892	1.57	16732	106.9	60	120	
Sc	45	2	147245	1.53	130618	112.7	60	120	
Li	6	2	18108	1.53	21135	85.7	60	120	

Sample Report

Sample Name	**460-151197-A-8-A@20**
Data File Name	**142SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T22:59:14-05:00**
Type	**Sample**
VialNumber	**3410**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.52	10.42	ug/l	900	
Pb	208	209	2	859.61	17192.15	ug/l	3600	
Tl	205	209	2	0.94	18.84	ug/l	720	
Ba	137	159	2	33.60	672.02	ug/l	3600	
Sb	121	115	2	-0.05	-1.04	ug/l	3600	
Sn	118	115	2	4.43	88.57	ug/l	3600	
Cd	111	115	2	20.77	415.45	ug/l	3600	
Ag	107	115	2	0.13	2.64	ug/l	450	
Mo	95	115	2	0.41	8.24	ug/l	3600	
Sr	88	115	2	20.73	414.57	ug/l	3600	
As	75	74	2	5.43	108.60	ug/l	3600	
Zn	66	45	2	23722.64	474452.83	ug/l	900	fail
Cu	63	45	2	197.45	3948.93	ug/l	450	
Ni	60	45	2	6.41	128.16	ug/l	900	
Co	59	45	2	3.81	76.13	ug/l	1800	
Fe	56	45	2	10901.01	218020.10	ug/l	45000	
Mn	55	45	2	95.29	1905.86	ug/l	18000	
Cr	52	45	2	13.91	278.10	ug/l	3600	
V	51	45	2	20.54	410.81	ug/l	3600	
Ti	47	45	2	241.89	4837.82	ug/l	3600	
Ca	44	45	2	2696.32	53926.32	ug/l	360000	
K	39	45	2	489.22	9784.41	ug/l	360000	
Al	27	45	2	7645.51	152910.27	ug/l	36000	
Mg	24	45	2	2208.50	44169.90	ug/l	360000	
Na	23	45	2	88.90	1777.96	ug/l	360000	
B	11	6	2	2.83	56.58	ug/l	7200	
Be	9	6	2	0.33	6.51	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	55767	0.19	56992	97.9	60	120	
Bi	209	2	278569	0.43	286349	97.3	60	120	
Tb	159	2	351355	0.23	337743	104.0	60	120	
In	115	2	95151	0.66	90201	105.5	60	120	
Kr	83	2	44	28.40	23	190.5	-1000	1000	
Ge	74	2	17491	1.32	16732	104.5	60	120	
Sc	45	2	146130	1.77	130618	111.9	60	120	
Li	6	2	18236	1.53	21135	86.3	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**143SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:02:32-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.04	-0.04	ug/l	900	
Pb	208	209	2	0.07	0.07	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.03	0.03	ug/l	3600	
Sb	121	115	2	-0.33	-0.33	ug/l	3600	
Sn	118	115	2	-0.02	-0.02	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.22	0.22	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.01	0.01	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	1.99	1.99	ug/l	900	
Cu	63	45	2	-0.01	-0.01	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	1.35	1.35	ug/l	45000	
Mn	55	45	2	0.02	0.02	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.09	0.09	ug/l	3600	
Ti	47	45	2	0.04	0.04	ug/l	3600	
Ca	44	45	2	-1.63	-1.63	ug/l	360000	
K	39	45	2	12.51	12.51	ug/l	360000	
Al	27	45	2	0.98	0.98	ug/l	36000	
Mg	24	45	2	0.72	0.72	ug/l	360000	
Na	23	45	2	7.58	7.58	ug/l	360000	
B	11	6	2	-1.95	-1.95	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59236	0.63	56992	103.9	60	120	
Bi	209	2	291380	0.54	286349	101.8	60	120	
Tb	159	2	353562	0.46	337743	104.7	60	120	
In	115	2	98706	0.85	90201	109.4	60	120	
Kr	83	2	43	20.36	23	185.7	-1000	1000	
Ge	74	2	17972	1.86	16732	107.4	60	120	
Sc	45	2	148266	1.40	130618	113.5	60	120	
Li	6	2	19744	0.87	21135	93.4	60	120	

Sample Report

Sample Name	**460-152133-E-1-A@20**
Data File Name	**144SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:05:57-05:00**
Type	**Sample**
VialNumber	**3411**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.54	10.76	ug/l	900	
Pb	208	209	2	83.63	1672.55	ug/l	3600	
Tl	205	209	2	0.25	4.99	ug/l	720	
Ba	137	159	2	82.66	1653.24	ug/l	3600	
Sb	121	115	2	0.87	17.35	ug/l	3600	
Sn	118	115	2	7.16	143.19	ug/l	3600	
Cd	111	115	2	0.35	7.08	ug/l	3600	
Ag	107	115	2	0.13	2.52	ug/l	450	
Mo	95	115	2	3.47	69.38	ug/l	3600	
Sr	88	115	2	17.72	354.41	ug/l	3600	
As	75	74	2	11.02	220.43	ug/l	3600	
Zn	66	45	2	316.85	6336.92	ug/l	900	
Cu	63	45	2	18.88	377.55	ug/l	450	
Ni	60	45	2	15.95	319.06	ug/l	900	
Co	59	45	2	13.73	274.65	ug/l	1800	
Fe	56	45	2	49295.16	985903.27	ug/l	45000	fail
Mn	55	45	2	571.25	11424.97	ug/l	18000	
Cr	52	45	2	25.12	502.44	ug/l	3600	
V	51	45	2	42.58	851.54	ug/l	3600	
Ti	47	45	2	439.73	8794.56	ug/l	3600	
Ca	44	45	2	4432.28	88645.64	ug/l	360000	
K	39	45	2	759.20	15184.02	ug/l	360000	
Al	27	45	2	15956.17	319123.44	ug/l	36000	
Mg	24	45	2	3380.99	67619.80	ug/l	360000	
Na	23	45	2	241.19	4823.75	ug/l	360000	
B	11	6	2	0.56	11.22	ug/l	7200	
Be	9	6	2	1.08	21.63	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	54752	1.08	56992	96.1	60	120	
Bi	209	2	278852	0.58	286349	97.4	60	120	
Tb	159	2	350174	0.29	337743	103.7	60	120	
In	115	2	94782	1.29	90201	105.1	60	120	
Kr	83	2	71	5.41	23	304.8	-1000	1000	
Ge	74	2	17600	1.69	16732	105.2	60	120	
Sc	45	2	149095	0.57	130618	114.1	60	120	
Li	6	2	17888	1.67	21135	84.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**145SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:09:18-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	0.01	0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.33	-0.33	ug/l	3600	
Sn	118	115	2	0.01	0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.20	0.20	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.12	-0.12	ug/l	900	
Cu	63	45	2	-0.04	-0.04	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.01	-0.01	ug/l	1800	
Fe	56	45	2	5.47	5.47	ug/l	45000	
Mn	55	45	2	0.06	0.06	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.06	0.06	ug/l	3600	
Ti	47	45	2	0.10	0.10	ug/l	3600	
Ca	44	45	2	-1.61	-1.61	ug/l	360000	
K	39	45	2	11.55	11.55	ug/l	360000	
Al	27	45	2	1.55	1.55	ug/l	36000	
Mg	24	45	2	0.69	0.69	ug/l	360000	
Na	23	45	2	8.12	8.12	ug/l	360000	
B	11	6	2	0.38	0.38	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59030	0.04	56992	103.6	60	120	
Bi	209	2	292173	0.41	286349	102.0	60	120	
Tb	159	2	352643	0.10	337743	104.4	60	120	
In	115	2	98716	0.68	90201	109.4	60	120	
Kr	83	2	34	24.36	23	147.6	-1000	1000	
Ge	74	2	17748	0.80	16732	106.1	60	120	
Sc	45	2	148460	1.77	130618	113.7	60	120	
Li	6	2	18896	1.08	21135	89.4	60	120	

Sample Report

Sample Name	**460-152133-E-2-A@20**
Data File Name	**146SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:12:43-05:00**
Type	**Sample**
VialNumber	**3412**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.41	8.25	ug/l	900	
Pb	208	209	2	96.35	1927.04	ug/l	3600	
Tl	205	209	2	0.37	7.33	ug/l	720	
Ba	137	159	2	117.80	2356.03	ug/l	3600	
Sb	121	115	2	2.54	50.75	ug/l	3600	
Sn	118	115	2	5.91	118.29	ug/l	3600	
Cd	111	115	2	0.58	11.69	ug/l	3600	
Ag	107	115	2	0.11	2.19	ug/l	450	
Mo	95	115	2	1.73	34.54	ug/l	3600	
Sr	88	115	2	25.58	511.56	ug/l	3600	
As	75	74	2	10.36	207.16	ug/l	3600	
Zn	66	45	2	321.17	6423.47	ug/l	900	
Cu	63	45	2	18.08	361.51	ug/l	450	
Ni	60	45	2	19.61	392.27	ug/l	900	
Co	59	45	2	15.68	313.52	ug/l	1800	
Fe	56	45	2	27121.36	542427.26	ug/l	45000	
Mn	55	45	2	1926.74	38534.77	ug/l	18000	
Cr	52	45	2	17.81	356.18	ug/l	3600	
V	51	45	2	29.50	590.09	ug/l	3600	
Ti	47	45	2	296.33	5926.56	ug/l	3600	
Ca	44	45	2	21197.65	423952.97	ug/l	360000	
K	39	45	2	1094.38	21887.68	ug/l	360000	
Al	27	45	2	15635.31	312706.18	ug/l	36000	
Mg	24	45	2	12567.40	251347.94	ug/l	360000	
Na	23	45	2	128.26	2565.27	ug/l	360000	
B	11	6	2	2.55	51.05	ug/l	7200	
Be	9	6	2	1.63	32.57	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	54690	0.53	56992	96.0	60	120	
Bi	209	2	274792	1.76	286349	96.0	60	120	
Tb	159	2	357976	1.52	337743	106.0	60	120	
In	115	2	94470	1.21	90201	104.7	60	120	
Kr	83	2	72	10.66	23	309.5	-1000	1000	
Ge	74	2	17452	0.96	16732	104.3	60	120	
Sc	45	2	147791	2.24	130618	113.1	60	120	
Li	6	2	17465	0.88	21135	82.6	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1476CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:15:58-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	51.96	0.79	ug/l	4677.01	0.86	50	103.9	90	110	
B	11	6	2	107.29	3.20	ug/l	2840.85	3.97	100	107.3	90	110	
Na	23	45	2	4998.76	1.52	ug/l	2522350.50	0.55	5000	100.0	90	110	
Mg	24	45	2	4870.69	2.14	ug/l	1187295.81	1.92	5000	97.4	90	110	
Al	27	45	2	500.07	2.27	ug/l	44326.46	1.85	500	100.0	90	110	
K	39	45	2	5161.37	0.92	ug/l	850585.88	0.95	5000	103.2	90	110	
Ca	44	45	2	5050.73	1.69	ug/l	37418.46	1.49	5000	101.0	90	110	
Ti	47	45	2	52.59	3.22	ug/l	2399.11	3.69	50	105.2	90	110	
V	51	45	2	48.65	1.00	ug/l	70448.05	0.40	50	97.3	90	110	
Cr	52	45	2	47.38	1.80	ug/l	84420.69	0.53	50	94.8	90	110	
Mn	55	45	2	496.31	1.86	ug/l	438847.66	0.56	500	99.3	90	110	
Fe	56	45	2	4855.09	1.32	ug/l	6402581.43	0.55	5000	97.1	90	110	
Co	59	45	2	47.37	1.22	ug/l	130565.46	0.65	50	94.7	90	110	
Ni	60	45	2	47.01	0.44	ug/l	35748.10	1.21	50	94.0	90	110	
Cu	63	45	2	47.01	1.10	ug/l	95926.69	0.88	50	94.0	90	110	
Zn	66	45	2	46.47	0.57	ug/l	10581.69	0.78	50	92.9	90	110	
As	75	74	2	50.67	1.09	ug/l	7030.57	0.65	50	101.3	90	110	
Se	78	74	1	49.07	0.64	ug/l	5241.34	0.36	50	98.1	90	110	
Sr	88	115	2	53.51	1.24	ug/l	42762.53	1.62	50	107.0	90	110	
Mo	95	115	2	48.72	1.07	ug/l	37640.19	0.65	50	97.4	90	110	
Ag	107	115	2	48.06	1.33	ug/l	117242.91	1.15	50	96.1	90	110	
Cd	111	115	2	48.07	1.31	ug/l	14094.71	0.91	50	96.1	90	110	
Sn	118	115	2	49.10	1.35	ug/l	30698.54	1.52	50	98.2	90	110	
Sb	121	115	2	51.12	0.79	ug/l	35989.10	0.72	50	102.2	90	110	
Ba	137	159	2	51.62	0.96	ug/l	14445.16	1.04	50	103.2	90	110	
Tl	205	209	2	9.96	1.00	ug/l	58129.45	0.67	10	99.6	90	110	
Pb	208	209	2	50.66	0.48	ug/l	383088.02	0.39	50	101.3	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19241	1.43	21135	91.0	60	120	
Sc	45	2	149059	1.35	130618	114.1	60	120	
Ge	74	1	59195	0.70	56992	103.9	60	120	
Ge	74	2	18115	0.49	16732	108.3	60	120	
Kr	83	2	41	36.56	23	176.2	-1000	1000	
In	115	2	96842	0.47	90201	107.4	60	120	
Tb	159	2	350655	0.43	337743	103.8	60	120	
Bi	209	2	282559	0.40	286349	98.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1486CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:19:17-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-41.09	ug/l	1.45	74.12	0.2	
B	11	6	2	1.47	83.42	ug/l	564.47	4.15	20	
Na	23	45	2	3.81	8.69	ug/l	40721.45	0.24	50	
Mg	24	45	2	1.32	12.18	ug/l	500.02	7.51	50	
Al	27	45	2	0.79	2.86	ug/l	144.45	1.76	10	
K	39	45	2	12.16	189.64	ug/l	24922.67	14.84	50	
Ca	44	45	2	-2.10	-57.99	ug/l	226.67	3.89	50	
Ti	47	45	2	0.01	1934.51	ug/l	3.33	132.21	1	
V	51	45	2	0.07	10.79	ug/l	183.34	6.55	1	
Cr	52	45	2	-0.05	-2.64	ug/l	245.57	0.79	1	
Mn	55	45	2	0.16	8.07	ug/l	156.67	7.67	2	
Fe	56	45	2	1.89	19.16	ug/l	5266.52	9.05	30	
Co	59	45	2	-0.01	-50.69	ug/l	36.67	32.78	1	
Ni	60	45	2	-0.04	-36.24	ug/l	26.67	43.30	1	
Cu	63	45	2	-0.06	-34.78	ug/l	338.90	11.82	1	
Zn	66	45	2	-0.38	-27.01	ug/l	197.79	11.47	4	
As	75	74	2	0.01	58.78	ug/l	7.22	13.27	0.5	
Se	78	74	1	0.02	32.84	ug/l	7.33	9.07	0.5	
Sr	88	115	2	0.00	215.86	ug/l	12.22	56.76	1	
Mo	95	115	2	0.01	196.87	ug/l	35.56	30.15	1	
Ag	107	115	2	-0.03	-18.44	ug/l	31.11	48.31	1	
Cd	111	115	2	-0.01	-88.14	ug/l	2.22	86.60	0.5	
Sn	118	115	2	0.00	5176.20	ug/l	57.78	21.84	4	
Sb	121	115	2	-0.24	-10.29	ug/l	101.11	18.16	0.5	
Ba	137	159	2	0.15	34.22	ug/l	50.00	29.06	1	
Tl	205	209	2	0.00	-160.75	ug/l	76.67	11.50	0.2	
Pb	208	209	2	0.01	50.86	ug/l	215.56	9.45	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19913	0.77	21135	94.2	60	120	
Sc	45	2	148083	0.39	130618	113.4	60	120	
Ge	74	1	59618	0.51	56992	104.6	60	120	
Ge	74	2	18126	1.43	16732	108.3	60	120	
Kr	83	2	61	13.72	23	261.9	-1000	1000	
In	115	2	99166	0.51	90201	109.9	60	120	
Tb	159	2	352858	0.61	337743	104.5	60	120	
Bi	209	2	291933	0.10	286349	102.0	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**149LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:22:39-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.36	23.33	ug/l	37.45	20.25	0.4	89.3	70	130	
B	11	6	2	43.96	5.32	ug/l	1527.32	4.05	40	109.9	70	130	
Na	23	45	2	99.19	2.74	ug/l	87730.87	0.20	100	99.2	70	130	
Mg	24	45	2	98.10	1.30	ug/l	23920.48	1.64	100	98.1	70	130	
Al	27	45	2	20.89	3.53	ug/l	1910.70	4.59	20	104.4	70	130	
K	39	45	2	115.63	16.31	ug/l	41347.41	5.90	100	115.6	70	130	
Ca	44	45	2	105.03	10.70	ug/l	1008.94	7.20	100	105.0	70	130	
Ti	47	45	2	2.03	14.87	ug/l	95.00	15.60	2	101.5	70	130	
V	51	45	2	2.04	4.11	ug/l	3003.72	5.21	2	101.8	70	130	
Cr	52	45	2	1.92	5.78	ug/l	3718.34	3.94	2	96.0	70	130	
Mn	55	45	2	4.07	1.52	ug/l	3589.41	0.63	4	101.8	70	130	
Fe	56	45	2	61.92	1.40	ug/l	83836.60	1.20	60	103.2	70	130	
Co	59	45	2	1.89	2.33	ug/l	5236.61	1.80	2	94.6	70	130	
Ni	60	45	2	1.96	0.69	ug/l	1537.90	0.66	2	98.2	70	130	
Cu	63	45	2	1.90	6.64	ug/l	4287.39	4.59	2	95.0	70	130	
Zn	66	45	2	7.54	3.77	ug/l	1940.18	3.26	8	94.3	70	130	
As	75	74	2	1.00	9.02	ug/l	145.00	8.68	1	100.4	70	130	
Se	78	74	1	4.86	2.25	ug/l	533.35	2.50	5	97.1	70	130	
Sr	88	115	2	2.09	5.93	ug/l	1699.04	6.68	2	104.3	70	130	
Mo	95	115	2	1.88	6.88	ug/l	1505.68	7.45	2	94.2	70	130	
Ag	107	115	2	0.96	5.72	ug/l	2495.85	5.54	1	96.5	70	130	
Cd	111	115	2	0.95	11.94	ug/l	286.68	12.14	1	95.0	70	130	
Sn	118	115	2	7.76	2.19	ug/l	4965.42	2.91	8	97.0	70	130	
Sb	121	115	2	0.72	2.50	ug/l	781.16	0.89	1	71.7	70	130	
Ba	137	159	2	2.27	16.29	ug/l	642.26	15.76	2	113.4	70	130	
Tl	205	209	2	0.41	5.47	ug/l	2556.98	4.72	0.4	102.4	70	130	
(Pb)	206	209	2	0.63	11.22	ug/l	1232.32	10.82	0.6	104.3	70	130	
(Pb)	207	209	2	0.61	1.72	ug/l	1120.09	2.36	0.6	101.1	70	130	
Pb	208	209	2	0.61	1.43	ug/l	4949.40	2.10	0.6	101.6	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20031	0.67	21135	94.8	60	120	
Sc	45	2	147990	1.32	130618	113.3	60	120	
Ge	74	1	60333	0.39	56992	105.9	60	120	
Ge	74	2	18142	1.25	16732	108.4	60	120	
Kr	83	2	44	28.40	23	190.5	-1000	1000	
In	115	2	98190	0.76	90201	108.9	60	120	
Tb	159	2	351043	0.39	337743	103.9	60	120	
Bi	209	2	292837	0.75	286349	102.3	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152048-A-3-B@20**
Data File Name	**150SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:26:01-05:00**
Type	**Sample**
VialNumber	**3309**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.32	6.34	ug/l	900	
Pb	208	209	2	8.57	171.40	ug/l	3600	
Tl	205	209	2	0.11	2.19	ug/l	720	
Ba	137	159	2	56.09	1121.78	ug/l	3600	
Sb	121	115	2	-0.20	-3.91	ug/l	3600	
Sn	118	115	2	1.62	32.36	ug/l	3600	
Cd	111	115	2	0.01	0.16	ug/l	3600	
Ag	107	115	2	-0.03	-0.55	ug/l	450	
Mo	95	115	2	0.69	13.78	ug/l	3600	
Sr	88	115	2	4.83	96.58	ug/l	3600	
As	75	74	2	5.30	106.10	ug/l	3600	
Zn	66	45	2	23.11	462.19	ug/l	900	
Cu	63	45	2	5.99	119.84	ug/l	450	
Ni	60	45	2	8.87	177.38	ug/l	900	
Co	59	45	2	3.85	77.08	ug/l	1800	
Fe	56	45	2	16610.07	332201.49	ug/l	45000	
Mn	55	45	2	137.71	2754.27	ug/l	18000	
Cr	52	45	2	18.86	377.11	ug/l	3600	
V	51	45	2	26.92	538.47	ug/l	3600	
Ti	47	45	2	340.96	6819.20	ug/l	3600	
Ca	44	45	2	710.67	14213.41	ug/l	360000	
K	39	45	2	821.71	16434.20	ug/l	360000	
Al	27	45	2	14662.28	293245.62	ug/l	36000	
Mg	24	45	2	1477.88	29557.59	ug/l	360000	
Na	23	45	2	41.96	839.10	ug/l	360000	
B	11	6	2	1.92	38.45	ug/l	7200	
Be	9	6	2	0.45	9.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56182	0.42	56992	98.6	60	120	
Bi	209	2	279102	0.88	286349	97.5	60	120	
Tb	159	2	348406	0.57	337743	103.2	60	120	
In	115	2	95807	1.04	90201	106.2	60	120	
Kr	83	2	49	37.55	23	209.5	-1000	1000	
Ge	74	2	17545	0.93	16732	104.9	60	120	
Sc	45	2	148301	1.38	130618	113.5	60	120	
Li	6	2	18460	0.92	21135	87.3	60	120	

Sample Report

Sample Name	**460-152048-A-5-B@20**
Data File Name	**151SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:29:17-05:00**
Type	**Sample**
VialNumber	**3310**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.77	ug/l	900	
Pb	208	209	2	19.10	381.97	ug/l	3600	
Tl	205	209	2	0.10	1.98	ug/l	720	
Ba	137	159	2	61.50	1229.98	ug/l	3600	
Sb	121	115	2	-0.17	-3.34	ug/l	3600	
Sn	118	115	2	1.64	32.75	ug/l	3600	
Cd	111	115	2	0.03	0.56	ug/l	3600	
Ag	107	115	2	-0.02	-0.42	ug/l	450	
Mo	95	115	2	0.40	7.97	ug/l	3600	
Sr	88	115	2	4.33	86.53	ug/l	3600	
As	75	74	2	5.74	114.79	ug/l	3600	
Zn	66	45	2	24.54	490.87	ug/l	900	
Cu	63	45	2	7.58	151.53	ug/l	450	
Ni	60	45	2	7.46	149.17	ug/l	900	
Co	59	45	2	3.95	78.95	ug/l	1800	
Fe	56	45	2	10464.42	209288.40	ug/l	45000	
Mn	55	45	2	239.72	4794.38	ug/l	18000	
Cr	52	45	2	12.50	249.94	ug/l	3600	
V	51	45	2	18.35	366.93	ug/l	3600	
Ti	47	45	2	212.07	4241.48	ug/l	3600	
Ca	44	45	2	921.92	18438.34	ug/l	360000	
K	39	45	2	618.27	12365.38	ug/l	360000	
Al	27	45	2	10042.56	200851.28	ug/l	36000	
Mg	24	45	2	1307.13	26142.51	ug/l	360000	
Na	23	45	2	38.49	769.82	ug/l	360000	
B	11	6	2	2.67	53.34	ug/l	7200	
Be	9	6	2	0.53	10.59	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56247	0.67	56992	98.7	60	120	
Bi	209	2	279676	1.29	286349	97.7	60	120	
Tb	159	2	349800	0.13	337743	103.6	60	120	
In	115	2	94527	1.03	90201	104.8	60	120	
Kr	83	2	42	18.24	23	181.0	-1000	1000	
Ge	74	2	17620	0.45	16732	105.3	60	120	
Sc	45	2	146743	1.45	130618	112.3	60	120	
Li	6	2	18355	0.73	21135	86.8	60	120	

Sample Report

Sample Name	**460-152048-A-7-B@20**
Data File Name	**152SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:32:38-05:00**
Type	**Sample**
VialNumber	**3311**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.22	4.33	ug/l	900	
Pb	208	209	2	20.29	405.85	ug/l	3600	
Tl	205	209	2	0.10	1.98	ug/l	720	
Ba	137	159	2	59.14	1182.86	ug/l	3600	
Sb	121	115	2	-0.16	-3.26	ug/l	3600	
Sn	118	115	2	1.53	30.53	ug/l	3600	
Cd	111	115	2	0.07	1.41	ug/l	3600	
Ag	107	115	2	-0.02	-0.36	ug/l	450	
Mo	95	115	2	0.42	8.33	ug/l	3600	
Sr	88	115	2	3.92	78.40	ug/l	3600	
As	75	74	2	5.79	115.73	ug/l	3600	
Zn	66	45	2	23.27	465.30	ug/l	900	
Cu	63	45	2	7.32	146.37	ug/l	450	
Ni	60	45	2	7.03	140.51	ug/l	900	
Co	59	45	2	3.78	75.58	ug/l	1800	
Fe	56	45	2	10147.93	202958.68	ug/l	45000	
Mn	55	45	2	234.44	4688.74	ug/l	18000	
Cr	52	45	2	12.28	245.60	ug/l	3600	
V	51	45	2	18.42	368.31	ug/l	3600	
Ti	47	45	2	201.88	4037.69	ug/l	3600	
Ca	44	45	2	1019.28	20385.50	ug/l	360000	
K	39	45	2	645.50	12910.09	ug/l	360000	
Al	27	45	2	9797.50	195949.99	ug/l	36000	
Mg	24	45	2	1271.57	25431.36	ug/l	360000	
Na	23	45	2	36.29	725.71	ug/l	360000	
B	11	6	2	-0.63	-12.66	ug/l	7200	
Be	9	6	2	0.52	10.31	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56026	0.50	56992	98.3	60	120	
Bi	209	2	280164	0.43	286349	97.8	60	120	
Tb	159	2	350818	0.91	337743	103.9	60	120	
In	115	2	94795	1.34	90201	105.1	60	120	
Kr	83	2	54	46.36	23	233.3	-1000	1000	
Ge	74	2	17542	1.27	16732	104.8	60	120	
Sc	45	2	147396	0.95	130618	112.8	60	120	
Li	6	2	18549	0.88	21135	87.8	60	120	

Sample Report

Sample Name	**460-152048-E-8-F@20**
Data File Name	**153SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:35:57-05:00**
Type	**Sample**
VialNumber	**3312**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.89	ug/l	900	
Pb	208	209	2	16.58	331.68	ug/l	3600	
Tl	205	209	2	0.08	1.63	ug/l	720	
Ba	137	159	2	62.77	1255.45	ug/l	3600	
Sb	121	115	2	-0.15	-3.02	ug/l	3600	
Sn	118	115	2	1.60	32.09	ug/l	3600	
Cd	111	115	2	0.06	1.10	ug/l	3600	
Ag	107	115	2	-0.02	-0.47	ug/l	450	
Mo	95	115	2	0.41	8.20	ug/l	3600	
Sr	88	115	2	4.44	88.83	ug/l	3600	
As	75	74	2	5.29	105.70	ug/l	3600	
Zn	66	45	2	26.69	533.89	ug/l	900	
Cu	63	45	2	7.37	147.43	ug/l	450	
Ni	60	45	2	6.82	136.47	ug/l	900	
Co	59	45	2	3.44	68.88	ug/l	1800	
Fe	56	45	2	9750.81	195016.30	ug/l	45000	
Mn	55	45	2	232.72	4654.44	ug/l	18000	
Cr	52	45	2	11.46	229.30	ug/l	3600	
V	51	45	2	16.48	329.55	ug/l	3600	
Ti	47	45	2	191.97	3839.48	ug/l	3600	
Ca	44	45	2	1396.97	27939.45	ug/l	360000	
K	39	45	2	531.23	10624.59	ug/l	360000	
Al	27	45	2	9212.57	184251.43	ug/l	36000	
Mg	24	45	2	1409.04	28180.84	ug/l	360000	
Na	23	45	2	38.57	771.47	ug/l	360000	
B	11	6	2	1.33	26.70	ug/l	7200	
Be	9	6	2	0.57	11.40	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56287	0.49	56992	98.8	60	120	
Bi	209	2	281109	0.70	286349	98.2	60	120	
Tb	159	2	349525	0.41	337743	103.5	60	120	
In	115	2	95169	1.90	90201	105.5	60	120	
Kr	83	2	47	32.73	23	200.0	-1000	1000	
Ge	74	2	17714	1.55	16732	105.9	60	120	
Sc	45	2	145035	1.62	130618	111.0	60	120	
Li	6	2	18479	1.23	21135	87.4	60	120	

Sample Report

Sample Name	**460-152048-E-9-D@20**
Data File Name	**154SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:39:15-05:00**
Type	**Sample**
VialNumber	**3401**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	4.20	ug/l	900	
Pb	208	209	2	20.56	411.22	ug/l	3600	
Tl	205	209	2	0.10	1.92	ug/l	720	
Ba	137	159	2	64.06	1281.17	ug/l	3600	
Sb	121	115	2	-0.14	-2.89	ug/l	3600	
Sn	118	115	2	1.60	31.94	ug/l	3600	
Cd	111	115	2	0.06	1.17	ug/l	3600	
Ag	107	115	2	-0.02	-0.43	ug/l	450	
Mo	95	115	2	0.48	9.56	ug/l	3600	
Sr	88	115	2	4.46	89.13	ug/l	3600	
As	75	74	2	5.69	113.80	ug/l	3600	
Zn	66	45	2	25.05	501.02	ug/l	900	
Cu	63	45	2	7.55	151.04	ug/l	450	
Ni	60	45	2	7.10	141.99	ug/l	900	
Co	59	45	2	3.78	75.63	ug/l	1800	
Fe	56	45	2	10174.62	203492.41	ug/l	45000	
Mn	55	45	2	245.49	4909.78	ug/l	18000	
Cr	52	45	2	12.39	247.75	ug/l	3600	
V	51	45	2	18.07	361.32	ug/l	3600	
Ti	47	45	2	222.11	4442.11	ug/l	3600	
Ca	44	45	2	1072.50	21449.93	ug/l	360000	
K	39	45	2	636.63	12732.64	ug/l	360000	
Al	27	45	2	9429.88	188597.59	ug/l	36000	
Mg	24	45	2	1247.88	24957.51	ug/l	360000	
Na	23	45	2	35.96	719.28	ug/l	360000	
B	11	6	2	0.17	3.42	ug/l	7200	
Be	9	6	2	0.52	10.33	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56323	1.40	56992	98.8	60	120	
Bi	209	2	278648	0.47	286349	97.3	60	120	
Tb	159	2	348569	0.79	337743	103.2	60	120	
In	115	2	95360	0.26	90201	105.7	60	120	
Kr	83	2	58	23.32	23	247.6	-1000	1000	
Ge	74	2	17513	1.08	16732	104.7	60	120	
Sc	45	2	144696	0.81	130618	110.8	60	120	
Li	6	2	18304	0.77	21135	86.6	60	120	

Sample Report

Sample Name	**460-152048-E-10-D@20**
Data File Name	**155SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:42:34-05:00**
Type	**Sample**
VialNumber	**3402**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	4.24	ug/l	900	
Pb	208	209	2	17.36	347.24	ug/l	3600	
Tl	205	209	2	0.08	1.56	ug/l	720	
Ba	137	159	2	54.10	1082.00	ug/l	3600	
Sb	121	115	2	-0.18	-3.52	ug/l	3600	
Sn	118	115	2	1.47	29.40	ug/l	3600	
Cd	111	115	2	0.06	1.10	ug/l	3600	
Ag	107	115	2	-0.02	-0.41	ug/l	450	
Mo	95	115	2	0.39	7.72	ug/l	3600	
Sr	88	115	2	3.99	79.80	ug/l	3600	
As	75	74	2	6.03	120.62	ug/l	3600	
Zn	66	45	2	21.20	423.92	ug/l	900	
Cu	63	45	2	7.26	145.29	ug/l	450	
Ni	60	45	2	6.71	134.29	ug/l	900	
Co	59	45	2	3.52	70.36	ug/l	1800	
Fe	56	45	2	9439.30	188786.00	ug/l	45000	
Mn	55	45	2	211.93	4238.58	ug/l	18000	
Cr	52	45	2	11.28	225.69	ug/l	3600	
V	51	45	2	16.42	328.35	ug/l	3600	
Ti	47	45	2	200.75	4014.95	ug/l	3600	
Ca	44	45	2	870.66	17413.17	ug/l	360000	
K	39	45	2	606.63	12132.65	ug/l	360000	
Al	27	45	2	8996.94	179938.78	ug/l	36000	
Mg	24	45	2	1135.21	22704.29	ug/l	360000	
Na	23	45	2	34.06	681.28	ug/l	360000	
B	11	6	2	0.18	3.66	ug/l	7200	
Be	9	6	2	0.54	10.89	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56144	0.56	56992	98.5	60	120	
Bi	209	2	278369	0.59	286349	97.2	60	120	
Tb	159	2	348321	1.33	337743	103.1	60	120	
In	115	2	94936	0.54	90201	105.2	60	120	
Kr	83	2	54	25.49	23	233.3	-1000	1000	
Ge	74	2	17405	2.08	16732	104.0	60	120	
Sc	45	2	144304	1.50	130618	110.5	60	120	
Li	6	2	18444	1.74	21135	87.3	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**156SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:45:55-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.02	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.32	-0.32	ug/l	3600	
Sn	118	115	2	-0.03	-0.03	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.28	0.28	ug/l	450	
Mo	95	115	2	-0.04	-0.04	ug/l	3600	
Sr	88	115	2	0.01	0.01	ug/l	3600	
As	75	74	2	-0.01	-0.01	ug/l	3600	
Zn	66	45	2	-0.35	-0.35	ug/l	900	
Cu	63	45	2	-0.04	-0.04	ug/l	450	
Ni	60	45	2	-0.02	-0.02	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	1.38	1.38	ug/l	45000	
Mn	55	45	2	0.04	0.04	ug/l	18000	
Cr	52	45	2	-0.06	-0.06	ug/l	3600	
V	51	45	2	0.07	0.07	ug/l	3600	
Ti	47	45	2	0.01	0.01	ug/l	3600	
Ca	44	45	2	0.46	0.46	ug/l	360000	
K	39	45	2	12.59	12.59	ug/l	360000	
Al	27	45	2	1.35	1.35	ug/l	36000	
Mg	24	45	2	0.65	0.65	ug/l	360000	
Na	23	45	2	4.29	4.29	ug/l	360000	
B	11	6	2	-1.05	-1.05	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58821	0.75	56992	103.2	60	120	
Bi	209	2	289840	0.19	286349	101.2	60	120	
Tb	159	2	349280	0.95	337743	103.4	60	120	
In	115	2	97790	0.41	90201	108.4	60	120	
Kr	83	2	43	26.65	23	185.7	-1000	1000	
Ge	74	2	17603	1.50	16732	105.2	60	120	
Sc	45	2	145663	1.42	130618	111.5	60	120	
Li	6	2	19234	1.12	21135	91.0	60	120	

Sample Report

Sample Name	**460-152048-E-11-D@20**
Data File Name	**157SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:49:19-05:00**
Type	**Sample**
VialNumber	**3403**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.86	ug/l	900	
Pb	208	209	2	17.32	346.37	ug/l	3600	
Tl	205	209	2	0.08	1.52	ug/l	720	
Ba	137	159	2	51.22	1024.32	ug/l	3600	
Sb	121	115	2	-0.17	-3.48	ug/l	3600	
Sn	118	115	2	1.42	28.32	ug/l	3600	
Cd	111	115	2	0.07	1.41	ug/l	3600	
Ag	107	115	2	-0.02	-0.45	ug/l	450	
Mo	95	115	2	0.33	6.68	ug/l	3600	
Sr	88	115	2	3.91	78.29	ug/l	3600	
As	75	74	2	5.91	118.18	ug/l	3600	
Zn	66	45	2	20.29	405.81	ug/l	900	
Cu	63	45	2	7.84	156.74	ug/l	450	
Ni	60	45	2	6.43	128.64	ug/l	900	
Co	59	45	2	3.36	67.20	ug/l	1800	
Fe	56	45	2	8728.38	174567.68	ug/l	45000	
Mn	55	45	2	206.21	4124.17	ug/l	18000	
Cr	52	45	2	10.66	213.28	ug/l	3600	
V	51	45	2	15.48	309.55	ug/l	3600	
Ti	47	45	2	187.15	3743.02	ug/l	3600	
Ca	44	45	2	775.47	15509.48	ug/l	360000	
K	39	45	2	523.23	10464.62	ug/l	360000	
Al	27	45	2	8640.77	172815.42	ug/l	36000	
Mg	24	45	2	1035.48	20709.50	ug/l	360000	
Na	23	45	2	37.18	743.52	ug/l	360000	
B	11	6	2	-1.27	-25.50	ug/l	7200	
Be	9	6	2	0.53	10.53	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	55658	0.35	56992	97.7	60	120	
Bi	209	2	278744	0.42	286349	97.3	60	120	
Tb	159	2	348084	0.54	337743	103.1	60	120	
In	115	2	94694	0.59	90201	105.0	60	120	
Kr	83	2	52	42.50	23	223.8	-1000	1000	
Ge	74	2	17483	3.01	16732	104.5	60	120	
Sc	45	2	144428	0.76	130618	110.6	60	120	
Li	6	2	18971	2.05	21135	89.8	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**158SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:52:41-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.34	-0.34	ug/l	3600	
Sn	118	115	2	-0.03	-0.03	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.25	0.25	ug/l	450	
Mo	95	115	2	-0.04	-0.04	ug/l	3600	
Sr	88	115	2	0.01	0.01	ug/l	3600	
As	75	74	2	-0.02	-0.02	ug/l	3600	
Zn	66	45	2	-0.23	-0.23	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.02	-0.02	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	1.18	1.18	ug/l	45000	
Mn	55	45	2	0.04	0.04	ug/l	18000	
Cr	52	45	2	-0.03	-0.03	ug/l	3600	
V	51	45	2	0.05	0.05	ug/l	3600	
Ti	47	45	2	0.04	0.04	ug/l	3600	
Ca	44	45	2	-2.83	-2.83	ug/l	360000	
K	39	45	2	8.75	8.75	ug/l	360000	
Al	27	45	2	1.25	1.25	ug/l	36000	
Mg	24	45	2	0.54	0.54	ug/l	360000	
Na	23	45	2	4.69	4.69	ug/l	360000	
B	11	6	2	-2.26	-2.26	ug/l	7200	
Be	9	6	2	-0.03	-0.03	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58365	0.68	56992	102.4	60	120	
Bi	209	2	287650	0.38	286349	100.5	60	120	
Tb	159	2	347470	0.75	337743	102.9	60	120	
In	115	2	97023	0.90	90201	107.6	60	120	
Kr	83	2	42	24.13	23	181.0	-1000	1000	
Ge	74	2	17753	0.14	16732	106.1	60	120	
Sc	45	2	144786	2.03	130618	110.8	60	120	
Li	6	2	19994	1.00	21135	94.6	60	120	

Sample Report

Sample Name	**460-152048-E-12-D@20**
Data File Name	**159SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:56:04-05:00**
Type	**Sample**
VialNumber	**3404**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.23	4.63	ug/l	900	
Pb	208	209	2	15.41	308.21	ug/l	3600	
Tl	205	209	2	0.09	1.87	ug/l	720	
Ba	137	159	2	62.22	1244.39	ug/l	3600	
Sb	121	115	2	-0.15	-2.93	ug/l	3600	
Sn	118	115	2	1.60	31.96	ug/l	3600	
Cd	111	115	2	0.07	1.35	ug/l	3600	
Ag	107	115	2	-0.02	-0.41	ug/l	450	
Mo	95	115	2	0.57	11.32	ug/l	3600	
Sr	88	115	2	4.64	92.79	ug/l	3600	
As	75	74	2	4.47	89.45	ug/l	3600	
Zn	66	45	2	23.76	475.11	ug/l	900	
Cu	63	45	2	6.33	126.56	ug/l	450	
Ni	60	45	2	7.31	146.25	ug/l	900	
Co	59	45	2	3.82	76.48	ug/l	1800	
Fe	56	45	2	10036.06	200721.22	ug/l	45000	
Mn	55	45	2	250.00	5000.01	ug/l	18000	
Cr	52	45	2	12.07	241.35	ug/l	3600	
V	51	45	2	17.92	358.37	ug/l	3600	
Ti	47	45	2	213.37	4267.31	ug/l	3600	
Ca	44	45	2	943.38	18867.54	ug/l	360000	
K	39	45	2	591.54	11830.84	ug/l	360000	
Al	27	45	2	9875.49	197509.71	ug/l	36000	
Mg	24	45	2	1307.35	26147.06	ug/l	360000	
Na	23	45	2	36.01	720.18	ug/l	360000	
B	11	6	2	-0.24	-4.82	ug/l	7200	
Be	9	6	2	0.58	11.60	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	55929	0.34	56992	98.1	60	120	
Bi	209	2	278487	0.35	286349	97.3	60	120	
Tb	159	2	348210	0.25	337743	103.1	60	120	
In	115	2	94129	0.89	90201	104.4	60	120	
Kr	83	2	57	25.64	23	242.9	-1000	1000	
Ge	74	2	17620	0.95	16732	105.3	60	120	
Sc	45	2	144848	1.19	130618	110.9	60	120	
Li	6	2	18845	1.58	21135	89.2	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1606CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-19T23:59:22-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	49.97	0.93	ug/l	4614.21	0.60	50	99.9	90	110	
B	11	6	2	99.26	2.33	ug/l	2734.72	2.84	100	99.3	90	110	
Na	23	45	2	4936.46	1.37	ug/l	2430411.11	2.22	5000	98.7	90	110	
Mg	24	45	2	4891.72	1.47	ug/l	1163221.70	2.48	5000	97.8	90	110	
Al	27	45	2	498.30	0.28	ug/l	43086.00	1.25	500	99.7	90	110	
K	39	45	2	5177.64	0.76	ug/l	832168.07	0.85	5000	103.6	90	110	
Ca	44	45	2	5097.75	0.55	ug/l	36834.90	0.80	5000	102.0	90	110	
Ti	47	45	2	51.39	1.29	ug/l	2286.31	1.19	50	102.8	90	110	
V	51	45	2	48.42	0.85	ug/l	68397.96	1.95	50	96.8	90	110	
Cr	52	45	2	47.53	1.16	ug/l	82614.55	0.18	50	95.1	90	110	
Mn	55	45	2	496.06	0.44	ug/l	427872.54	0.99	500	99.2	90	110	
Fe	56	45	2	4848.26	0.45	ug/l	6236662.61	1.38	5000	97.0	90	110	
Co	59	45	2	47.80	1.20	ug/l	128523.73	1.30	50	95.6	90	110	
Ni	60	45	2	47.05	0.84	ug/l	34898.39	1.22	50	94.1	90	110	
Cu	63	45	2	47.13	1.24	ug/l	93796.09	0.49	50	94.3	90	110	
Zn	66	45	2	46.34	1.57	ug/l	10292.56	1.48	50	92.7	90	110	
As	75	74	2	50.30	1.85	ug/l	6858.26	2.34	50	100.6	90	110	
Se	78	74	1	48.92	1.17	ug/l	5133.08	0.90	50	97.8	90	110	
Sr	88	115	2	52.16	1.27	ug/l	41704.92	1.43	50	104.3	90	110	
Mo	95	115	2	49.16	0.96	ug/l	38001.04	0.69	50	98.3	90	110	
Ag	107	115	2	47.80	1.19	ug/l	116676.05	1.35	50	95.6	90	110	
Cd	111	115	2	47.29	1.63	ug/l	13872.28	1.94	50	94.6	90	110	
Sn	118	115	2	48.98	0.59	ug/l	30635.07	0.69	50	98.0	90	110	
Sb	121	115	2	51.00	1.61	ug/l	35924.46	1.35	50	102.0	90	110	
Ba	137	159	2	51.55	1.71	ug/l	14328.41	1.58	50	103.1	90	110	
Tl	205	209	2	10.06	0.90	ug/l	58142.60	0.74	10	100.6	90	110	
Pb	208	209	2	50.63	0.74	ug/l	378997.14	0.54	50	101.3	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19734	0.96	21135	93.4	60	120	
Sc	45	2	145385	1.32	130618	111.3	60	120	
Ge	74	1	58155	0.99	56992	102.0	60	120	
Ge	74	2	17799	2.27	16732	106.4	60	120	
Kr	83	2	40	28.88	23	171.4	-1000	1000	
In	115	2	96885	0.39	90201	107.4	60	120	
Tb	159	2	348312	0.31	337743	103.1	60	120	
Bi	209	2	279710	0.32	286349	97.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1616CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:02:40-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.02	-60.62	ug/l	1.89	71.09	0.2	
B	11	6	2	0.42	355.10	ug/l	548.35	6.72	20	
Na	23	45	2	0.97	113.39	ug/l	38753.46	0.40	50	
Mg	24	45	2	1.32	8.08	ug/l	492.25	4.41	50	
Al	27	45	2	0.60	49.34	ug/l	126.11	18.80	10	
K	39	45	2	11.67	188.86	ug/l	24454.11	12.53	50	
Ca	44	45	2	-3.34	-62.52	ug/l	214.45	6.04	50	
Ti	47	45	2	0.02	428.61	ug/l	3.89	89.22	1	
V	51	45	2	0.07	6.00	ug/l	174.45	4.41	1	
Cr	52	45	2	-0.05	-46.61	ug/l	248.90	16.85	1	
Mn	55	45	2	0.17	7.58	ug/l	160.01	5.51	2	
Fe	56	45	2	1.34	6.85	ug/l	4487.93	1.12	30	
Co	59	45	2	0.00	-455.95	ug/l	56.67	26.96	1	
Ni	60	45	2	-0.03	-55.79	ug/l	37.78	30.98	1	
Cu	63	45	2	-0.05	-5.43	ug/l	356.68	1.87	1	
Zn	66	45	2	-0.51	-20.43	ug/l	165.56	13.40	4	
As	75	74	2	0.00	183.37	ug/l	6.11	15.77	0.5	
Se	78	74	1	0.00	-201.76	ug/l	4.89	14.24	0.5	
Sr	88	115	2	0.00	3433.51	ug/l	8.89	21.63	1	
Mo	95	115	2	0.00	1146.31	ug/l	31.11	53.94	1	
Ag	107	115	2	-0.03	-15.93	ug/l	36.67	32.78	1	
Cd	111	115	2	0.01	282.68	ug/l	6.67	99.98	0.5	
Sn	118	115	2	0.02	32.24	ug/l	71.11	7.16	4	
Sb	121	115	2	-0.27	-10.83	ug/l	83.34	24.00	0.5	
Ba	137	159	2	0.10	39.14	ug/l	36.67	31.49	1	
Tl	205	209	2	0.00	42.27	ug/l	97.78	7.10	0.2	
Pb	208	209	2	0.01	63.17	ug/l	228.90	15.30	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20180	1.44	21135	95.5	60	120	
Sc	45	2	145977	1.61	130618	111.8	60	120	
Ge	74	1	59948	0.84	56992	105.2	60	120	
Ge	74	2	17844	1.22	16732	106.6	60	120	
Kr	83	2	42	24.13	23	181.0	-1000	1000	
In	115	2	97432	0.55	90201	108.0	60	120	
Tb	159	2	350581	0.13	337743	103.8	60	120	
Bi	209	2	289186	0.45	286349	101.0	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**162LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:06:00-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.36	7.19	ug/l	39.11	7.88	0.4	90.8	70	130	
B	11	6	2	38.63	9.39	ug/l	1444.54	5.26	40	96.6	70	130	
Na	23	45	2	97.53	2.62	ug/l	84980.12	1.89	100	97.5	70	130	
Mg	24	45	2	99.18	1.48	ug/l	23642.35	2.29	100	99.2	70	130	
Al	27	45	2	20.96	2.32	ug/l	1874.02	2.76	20	104.8	70	130	
K	39	45	2	117.37	19.25	ug/l	40701.46	7.88	100	117.4	70	130	
Ca	44	45	2	109.28	2.78	ug/l	1017.28	2.66	100	109.3	70	130	
Ti	47	45	2	1.84	25.47	ug/l	84.44	23.71	2	92.2	70	130	
V	51	45	2	2.05	2.54	ug/l	2958.15	2.53	2	102.6	70	130	
Cr	52	45	2	1.95	2.75	ug/l	3680.54	1.75	2	97.3	70	130	
Mn	55	45	2	4.26	0.76	ug/l	3671.66	0.55	4	106.5	70	130	
Fe	56	45	2	61.23	1.03	ug/l	81067.91	0.46	60	102.0	70	130	
Co	59	45	2	1.96	4.02	ug/l	5313.28	4.46	2	98.2	70	130	
Ni	60	45	2	1.97	1.72	ug/l	1511.23	2.48	2	98.7	70	130	
Cu	63	45	2	1.83	3.62	ug/l	4060.64	3.81	2	91.6	70	130	
Zn	66	45	2	6.97	9.27	ug/l	1774.60	8.18	8	87.2	70	130	
As	75	74	2	1.07	25.66	ug/l	152.78	24.74	1	106.8	70	130	
Se	78	74	1	4.85	3.88	ug/l	524.45	4.34	5	97.1	70	130	
Sr	88	115	2	2.05	4.66	ug/l	1659.03	4.33	2	102.5	70	130	
Mo	95	115	2	1.95	1.94	ug/l	1543.46	0.22	2	97.3	70	130	
Ag	107	115	2	0.97	1.96	ug/l	2492.51	0.78	1	97.0	70	130	
Cd	111	115	2	0.91	6.74	ug/l	274.46	5.99	1	91.5	70	130	
Sn	118	115	2	7.90	4.11	ug/l	5023.24	2.40	8	98.8	70	130	
Sb	121	115	2	0.79	4.67	ug/l	826.72	1.45	1	78.9	70	130	
Ba	137	159	2	2.26	4.94	ug/l	635.59	4.70	2	113.2	70	130	
Tl	205	209	2	0.40	1.78	ug/l	2488.08	1.68	0.4	100.6	70	130	
(Pb)	206	209	2	0.64	6.91	ug/l	1248.99	6.70	0.6	106.9	70	130	
(Pb)	207	209	2	0.58	9.66	ug/l	1070.07	9.20	0.6	97.5	70	130	
Pb	208	209	2	0.62	0.58	ug/l	4989.40	0.64	0.6	103.5	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20572	1.44	21135	97.3	60	120	
Sc	45	2	144676	0.88	130618	110.8	60	120	
Ge	74	1	59353	0.60	56992	104.1	60	120	
Ge	74	2	18008	0.80	16732	107.6	60	120	
Kr	83	2	50	17.64	23	214.3	-1000	1000	
In	115	2	97597	1.70	90201	108.2	60	120	
Tb	159	2	348028	0.74	337743	103.0	60	120	
Bi	209	2	289826	0.08	286349	101.2	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**MB 460-504395/1-B@2**
Data File Name	**1636CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:09:21-05:00**
Type	**6-CCB**
VialNumber	**2501**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.04	-11.02	ug/l	0.56	35.26	0.2	
B	11	6	2	-1.66	-38.09	ug/l	500.57	1.83	20	
Na	23	45	2	1.16	183.18	ug/l	38362.55	0.71	50	
Mg	24	45	2	0.54	78.81	ug/l	301.12	14.87	50	
Al	27	45	2	0.68	67.18	ug/l	131.67	15.40	10	
K	39	45	2	8.53	527.30	ug/l	23650.70	12.62	50	
Ca	44	45	2	-0.81	-635.65	ug/l	230.01	9.42	50	
Ti	47	45	2	0.03	485.97	ug/l	4.44	78.02	1	
V	51	45	2	0.13	42.36	ug/l	260.01	13.38	1	
Cr	52	45	2	-0.05	-32.07	ug/l	241.12	7.61	1	
Mn	55	45	2	0.01	9.74	ug/l	23.33	0.00	2	
Fe	56	45	2	-0.68	-10.15	ug/l	1859.58	3.69	30	
Co	59	45	2	-0.02	-10.00	ug/l	14.44	13.35	1	
Ni	60	45	2	-0.04	-49.90	ug/l	25.56	30.11	1	
Cu	63	45	2	-0.07	-49.49	ug/l	303.36	9.52	1	
Zn	66	45	2	-0.58	-8.92	ug/l	147.78	5.68	4	
As	75	74	2	0.01	271.99	ug/l	6.67	24.98	0.5	
Se	78	74	1	-0.02	-78.83	ug/l	3.45	20.09	0.5	
Sr	88	115	2	0.00	1086.40	ug/l	10.00	66.70	1	
Mo	95	115	2	0.54	14.92	ug/l	444.47	7.59	1	
Ag	107	115	2	-0.04	-0.05	ug/l	3.33	0.00	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	0.01	117.10	ug/l	64.45	7.90	4	
Sb	121	115	2	-0.32	-14.62	ug/l	42.22	38.95	0.5	
Ba	137	159	2	0.01	203.34	ug/l	11.11	34.61	1	
Tl	205	209	2	-0.01	-64.12	ug/l	45.56	25.70	0.2	
Pb	208	209	2	0.02	33.64	ug/l	302.24	7.75	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20164	1.02	21135	95.4	60	120	
Sc	45	2	144156	2.03	130618	110.4	60	120	
Ge	74	1	58726	0.98	56992	103.0	60	120	
Ge	74	2	17699	2.67	16732	105.8	60	120	
Kr	83	2	38	13.49	23	161.9	-1000	1000	
In	115	2	96907	0.85	90201	107.4	60	120	
Tb	159	2	349638	0.79	337743	103.5	60	120	
Bi	209	2	287476	0.83	286349	100.4	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Sample Report

Sample Name	**LCS 460-504514/2-A@2**
Data File Name	**164SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:12:41-05:00**
Type	**Sample**
VialNumber	**2502**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	10.27	20.53	ug/l	900	
Pb	208	209	2	5.16	10.32	ug/l	3600	
Tl	205	209	2	4.08	8.15	ug/l	720	
Ba	137	159	2	10.65	21.30	ug/l	3600	
Sb	121	115	2	5.00	10.00	ug/l	3600	
Sn	118	115	2	10.22	20.43	ug/l	3600	
Cd	111	115	2	4.79	9.59	ug/l	3600	
Ag	107	115	2	4.49	8.98	ug/l	450	
Mo	95	115	2	9.81	19.62	ug/l	3600	
Sr	88	115	2	10.90	21.79	ug/l	3600	
As	75	74	2	10.83	21.66	ug/l	3600	
Zn	66	45	2	48.46	96.91	ug/l	900	
Cu	63	45	2	10.09	20.17	ug/l	450	
Ni	60	45	2	10.22	20.43	ug/l	900	
Co	59	45	2	4.99	9.99	ug/l	1800	
Fe	56	45	2	528.46	1056.93	ug/l	45000	
Mn	55	45	2	52.57	105.14	ug/l	18000	
Cr	52	45	2	9.89	19.78	ug/l	3600	
V	51	45	2	10.08	20.15	ug/l	3600	
Ti	47	45	2	10.66	21.31	ug/l	3600	
Ca	44	45	2	540.12	1080.23	ug/l	360000	
K	39	45	2	552.22	1104.45	ug/l	360000	
Al	27	45	2	522.30	1044.60	ug/l	36000	
Mg	24	45	2	499.57	999.15	ug/l	360000	
Na	23	45	2	490.58	981.15	ug/l	360000	
B	11	6	2	80.15	160.29	ug/l	7200	
Be	9	6	2	5.17	10.33	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58551	0.34	56992	102.7	60	120	
Bi	209	2	287329	0.40	286349	100.3	60	120	
Tb	159	2	348411	0.43	337743	103.2	60	120	
In	115	2	96722	0.80	90201	107.2	60	120	
Kr	83	2	46	4.23	23	195.2	-1000	1000	
Ge	74	2	17768	0.75	16732	106.2	60	120	
Sc	45	2	144069	1.57	130618	110.3	60	120	
Li	6	2	20232	0.35	21135	95.7	60	120	

Sample Report

Sample Name	**460-152136-D-1-D MS@2**
Data File Name	**165SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:20:35-05:00**
Type	**Sample**
VialNumber	**2503**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	9.31	18.63	ug/l	900	
Pb	208	209	2	5.14	10.27	ug/l	3600	
Tl	205	209	2	3.91	7.81	ug/l	720	
Ba	137	159	2	18.86	37.72	ug/l	3600	
Sb	121	115	2	4.23	8.45	ug/l	3600	
Sn	118	115	2	10.06	20.13	ug/l	3600	
Cd	111	115	2	4.62	9.24	ug/l	3600	
Ag	107	115	2	4.52	9.04	ug/l	450	
Mo	95	115	2	9.19	18.38	ug/l	3600	
Sr	88	115	2	310.03	620.06	ug/l	3600	
As	75	74	2	9.67	19.35	ug/l	3600	
Zn	66	45	2	48.15	96.29	ug/l	900	
Cu	63	45	2	9.61	19.22	ug/l	450	
Ni	60	45	2	9.29	18.58	ug/l	900	
Co	59	45	2	4.73	9.46	ug/l	1800	
Fe	56	45	2	494.42	988.84	ug/l	45000	
Mn	55	45	2	49.21	98.42	ug/l	18000	
Cr	52	45	2	9.39	18.78	ug/l	3600	
V	51	45	2	9.74	19.49	ug/l	3600	
Ti	47	45	2	10.22	20.43	ug/l	3600	
Ca	44	45	2	5836.22	11672.43	ug/l	360000	
K	39	45	2	2025.06	4050.13	ug/l	360000	
Al	27	45	2	498.72	997.44	ug/l	36000	
Mg	24	45	2	1288.79	2577.59	ug/l	360000	
Na	23	45	2	5094.94	10189.89	ug/l	360000	
B	11	6	2	89.25	178.50	ug/l	7200	
Be	9	6	2	4.73	9.47	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59454	1.61	56992	104.3	60	120	
Bi	209	2	283135	0.83	286349	98.9	60	120	
Tb	159	2	350001	0.56	337743	103.6	60	120	
In	115	2	97083	0.21	90201	107.6	60	120	
Kr	83	2	38	5.09	23	161.9	-1000	1000	
Ge	74	2	17852	1.85	16732	106.7	60	120	
Sc	45	2	145363	1.80	130618	111.3	60	120	
Li	6	2	20603	1.43	21135	97.5	60	120	

Sample Report

Sample Name	**460-152136-D-1-C DU@2**
Data File Name	**166SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:24:57-05:00**
Type	**Sample**
VialNumber	**2504**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	-0.01	ug/l	900	
Pb	208	209	2	0.01	0.01	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	8.42	16.83	ug/l	3600	
Sb	121	115	2	-0.18	-0.37	ug/l	3600	
Sn	118	115	2	0.04	0.08	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.14	0.27	ug/l	3600	
Sr	88	115	2	300.47	600.94	ug/l	3600	
As	75	74	2	0.11	0.23	ug/l	3600	
Zn	66	45	2	0.54	1.08	ug/l	900	
Cu	63	45	2	0.32	0.65	ug/l	450	
Ni	60	45	2	0.08	0.16	ug/l	900	
Co	59	45	2	-0.01	-0.02	ug/l	1800	
Fe	56	45	2	2.41	4.82	ug/l	45000	
Mn	55	45	2	0.29	0.57	ug/l	18000	
Cr	52	45	2	0.08	0.16	ug/l	3600	
V	51	45	2	0.29	0.57	ug/l	3600	
Ti	47	45	2	0.03	0.06	ug/l	3600	
Ca	44	45	2	5336.45	10672.90	ug/l	360000	
K	39	45	2	1522.82	3045.63	ug/l	360000	
Al	27	45	2	5.75	11.49	ug/l	36000	
Mg	24	45	2	827.33	1654.66	ug/l	360000	
Na	23	45	2	4626.69	9253.37	ug/l	360000	
B	11	6	2	-7.36	-14.72	ug/l	7200	
Be	9	6	2	-0.04	-0.08	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59538	0.74	56992	104.5	60	120	
Bi	209	2	285883	0.59	286349	99.8	60	120	
Tb	159	2	350605	0.31	337743	103.8	60	120	
In	115	2	97761	1.19	90201	108.4	60	120	
Kr	83	2	44	51.04	23	190.5	-1000	1000	
Ge	74	2	18221	0.91	16732	108.9	60	120	
Sc	45	2	146399	1.53	130618	112.1	60	120	
Li	6	2	21148	0.75	21135	100.1	60	120	

Sample Report

Sample Name	**460-152136-D-1-B@2**
Data File Name	**167SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:28:15-05:00**
Type	**Sample**
VialNumber	**2505**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.04	ug/l	900	
Pb	208	209	2	0.00	0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	8.20	16.39	ug/l	3600	
Sb	121	115	2	-0.23	-0.46	ug/l	3600	
Sn	118	115	2	0.01	0.01	ug/l	3600	
Cd	111	115	2	-0.01	-0.02	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.11	0.23	ug/l	3600	
Sr	88	115	2	296.76	593.52	ug/l	3600	
As	75	74	2	0.06	0.11	ug/l	3600	
Zn	66	45	2	0.73	1.46	ug/l	900	
Cu	63	45	2	0.29	0.58	ug/l	450	
Ni	60	45	2	0.08	0.15	ug/l	900	
Co	59	45	2	-0.01	-0.01	ug/l	1800	
Fe	56	45	2	2.66	5.31	ug/l	45000	
Mn	55	45	2	0.33	0.66	ug/l	18000	
Cr	52	45	2	0.10	0.19	ug/l	3600	
V	51	45	2	0.29	0.57	ug/l	3600	
Ti	47	45	2	0.03	0.06	ug/l	3600	
Ca	44	45	2	5361.48	10722.95	ug/l	360000	
K	39	45	2	1531.49	3062.99	ug/l	360000	
Al	27	45	2	5.69	11.38	ug/l	36000	
Mg	24	45	2	833.68	1667.35	ug/l	360000	
Na	23	45	2	4654.28	9308.56	ug/l	360000	
B	11	6	2	-8.12	-16.24	ug/l	7200	
Be	9	6	2	-0.03	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59660	0.30	56992	104.7	60	120	
Bi	209	2	285520	0.46	286349	99.7	60	120	
Tb	159	2	350237	0.45	337743	103.7	60	120	
In	115	2	97963	1.00	90201	108.6	60	120	
Kr	83	2	44	15.61	23	190.5	-1000	1000	
Ge	74	2	18080	1.26	16732	108.1	60	120	
Sc	45	2	144467	1.86	130618	110.6	60	120	
Li	6	2	21155	1.30	21135	100.1	60	120	

Sample Report

Sample Name	**SD 460-152136-D-1-B@10**
Data File Name	**168SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:31:34-05:00**
Type	**Sample**
VialNumber	**2506**
Dilution	**10**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.22	ug/l	900	
Pb	208	209	2	0.04	0.36	ug/l	3600	
Tl	205	209	2	0.00	-0.04	ug/l	720	
Ba	137	159	2	1.55	15.55	ug/l	3600	
Sb	121	115	2	-0.22	-2.21	ug/l	3600	
Sn	118	115	2	0.02	0.20	ug/l	3600	
Cd	111	115	2	-0.01	-0.15	ug/l	3600	
Ag	107	115	2	-0.04	-0.41	ug/l	450	
Mo	95	115	2	0.16	1.64	ug/l	3600	
Sr	88	115	2	60.34	603.41	ug/l	3600	
As	75	74	2	0.04	0.45	ug/l	3600	
Zn	66	45	2	2.26	22.58	ug/l	900	
Cu	63	45	2	0.06	0.58	ug/l	450	
Ni	60	45	2	-0.02	-0.19	ug/l	900	
Co	59	45	2	-0.01	-0.14	ug/l	1800	
Fe	56	45	2	0.29	2.89	ug/l	45000	
Mn	55	45	2	0.09	0.86	ug/l	18000	
Cr	52	45	2	-0.02	-0.21	ug/l	3600	
V	51	45	2	0.31	3.06	ug/l	3600	
Ti	47	45	2	0.01	0.08	ug/l	3600	
Ca	44	45	2	1067.27	10672.74	ug/l	360000	
K	39	45	2	315.32	3153.15	ug/l	360000	
Al	27	45	2	2.28	22.84	ug/l	36000	
Mg	24	45	2	169.07	1690.69	ug/l	360000	
Na	23	45	2	885.54	8855.41	ug/l	360000	
B	11	6	2	-3.35	-33.53	ug/l	7200	
Be	9	6	2	-0.04	-0.39	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59810	0.46	56992	104.9	60	120	
Bi	209	2	289506	0.31	286349	101.1	60	120	
Tb	159	2	349893	0.21	337743	103.6	60	120	
In	115	2	97385	0.68	90201	108.0	60	120	
Kr	83	2	36	39.03	23	152.4	-1000	1000	
Ge	74	2	17774	2.18	16732	106.2	60	120	
Sc	45	2	145254	1.36	130618	111.2	60	120	
Li	6	2	20631	0.49	21135	97.6	60	120	

Sample Report

Sample Name	**460-152118-G-18-B@2**
Data File Name	**169SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:34:55-05:00**
Type	**Sample**
VialNumber	**2507**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.04	ug/l	900	
Pb	208	209	2	0.00	0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	3.73	7.46	ug/l	3600	
Sb	121	115	2	-0.29	-0.58	ug/l	3600	
Sn	118	115	2	-0.03	-0.06	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.04	-0.09	ug/l	450	
Mo	95	115	2	0.35	0.69	ug/l	3600	
Sr	88	115	2	208.20	416.39	ug/l	3600	
As	75	74	2	0.23	0.47	ug/l	3600	
Zn	66	45	2	1.18	2.36	ug/l	900	
Cu	63	45	2	-0.06	-0.12	ug/l	450	
Ni	60	45	2	2.02	4.04	ug/l	900	
Co	59	45	2	0.08	0.16	ug/l	1800	
Fe	56	45	2	34.61	69.21	ug/l	45000	
Mn	55	45	2	187.36	374.72	ug/l	18000	
Cr	52	45	2	0.00	0.01	ug/l	3600	
V	51	45	2	0.37	0.74	ug/l	3600	
Ti	47	45	2	0.13	0.26	ug/l	3600	
Ca	44	45	2	51412.29	102824.58	ug/l	360000	
K	39	45	2	5410.36	10820.71	ug/l	360000	
Al	27	45	2	0.84	1.69	ug/l	36000	
Mg	24	45	2	2146.64	4293.29	ug/l	360000	
Na	23	45	2	4095.53	8191.06	ug/l	360000	
B	11	6	2	52.40	104.80	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58439	0.45	56992	102.5	60	120	
Bi	209	2	279729	0.40	286349	97.7	60	120	
Tb	159	2	349870	0.23	337743	103.6	60	120	
In	115	2	96740	0.76	90201	107.2	60	120	
Kr	83	2	48	42.63	23	204.8	-1000	1000	
Ge	74	2	17980	0.82	16732	107.5	60	120	
Sc	45	2	145439	0.97	130618	111.3	60	120	
Li	6	2	20546	1.09	21135	97.2	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**170SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:38:18-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.00	0.00	ug/l	3600	
Sb	121	115	2	-0.30	-0.30	ug/l	3600	
Sn	118	115	2	-0.03	-0.03	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	0.19	0.19	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.04	0.04	ug/l	3600	
As	75	74	2	0.03	0.03	ug/l	3600	
Zn	66	45	2	-0.32	-0.32	ug/l	900	
Cu	63	45	2	-0.05	-0.05	ug/l	450	
Ni	60	45	2	-0.02	-0.02	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	-0.48	-0.48	ug/l	45000	
Mn	55	45	2	0.03	0.03	ug/l	18000	
Cr	52	45	2	-0.06	-0.06	ug/l	3600	
V	51	45	2	0.24	0.24	ug/l	3600	
Ti	47	45	2	-0.04	-0.04	ug/l	3600	
Ca	44	45	2	5.95	5.95	ug/l	360000	
K	39	45	2	11.25	11.25	ug/l	360000	
Al	27	45	2	0.04	0.04	ug/l	36000	
Mg	24	45	2	0.82	0.82	ug/l	360000	
Na	23	45	2	3.54	3.54	ug/l	360000	
B	11	6	2	-0.01	-0.01	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60688	0.81	56992	106.5	60	120	
Bi	209	2	290693	0.35	286349	101.5	60	120	
Tb	159	2	351832	0.88	337743	104.2	60	120	
In	115	2	98451	0.40	90201	109.1	60	120	
Kr	83	2	29	29.04	23	123.8	-1000	1000	
Ge	74	2	17696	1.23	16732	105.8	60	120	
Sc	45	2	147225	0.39	130618	112.7	60	120	
Li	6	2	20568	0.47	21135	97.3	60	120	

Sample Report

Sample Name	**460-152118-J-19-B@2**
Data File Name	**171SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:41:40-05:00**
Type	**Sample**
VialNumber	**2508**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.15	0.31	ug/l	900	
Pb	208	209	2	0.02	0.04	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	143.31	286.61	ug/l	3600	
Sb	121	115	2	-0.28	-0.55	ug/l	3600	
Sn	118	115	2	-0.01	-0.02	ug/l	3600	
Cd	111	115	2	-0.01	-0.03	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.00	0.00	ug/l	3600	
Sr	88	115	2	118.83	237.66	ug/l	3600	
As	75	74	2	0.54	1.09	ug/l	3600	
Zn	66	45	2	7.81	15.62	ug/l	900	
Cu	63	45	2	-0.04	-0.07	ug/l	450	
Ni	60	45	2	21.63	43.26	ug/l	900	
Co	59	45	2	0.66	1.32	ug/l	1800	
Fe	56	45	2	31857.63	63715.25	ug/l	45000	
Mn	55	45	2	295.07	590.14	ug/l	18000	
Cr	52	45	2	0.35	0.70	ug/l	3600	
V	51	45	2	1.05	2.09	ug/l	3600	
Ti	47	45	2	0.06	0.11	ug/l	3600	
Ca	44	45	2	17046.39	34092.77	ug/l	360000	
K	39	45	2	11431.89	22863.78	ug/l	360000	
Al	27	45	2	697.84	1395.67	ug/l	36000	
Mg	24	45	2	4594.00	9188.01	ug/l	360000	
Na	23	45	2	16740.69	33481.38	ug/l	360000	
B	11	6	2	56.07	112.13	ug/l	7200	
Be	9	6	2	0.32	0.65	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56468	0.51	56992	99.1	60	120	
Bi	209	2	275092	0.84	286349	96.1	60	120	
Tb	159	2	344932	0.52	337743	102.1	60	120	
In	115	2	94542	1.16	90201	104.8	60	120	
Kr	83	2	38	30.98	23	161.9	-1000	1000	
Ge	74	2	17385	1.16	16732	103.9	60	120	
Sc	45	2	144226	1.86	130618	110.4	60	120	
Li	6	2	20641	0.54	21135	97.7	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1726CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:44:58-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	49.47	1.20	ug/l	4709.58	1.03	50	98.9	90	110	
B	11	6	2	96.71	6.27	ug/l	2760.28	4.37	100	96.7	90	110	
Na	23	45	2	5059.80	1.38	ug/l	2450751.34	1.81	5000	101.2	90	110	
Mg	24	45	2	4984.61	1.09	ug/l	1166472.16	1.34	5000	99.7	90	110	
Al	27	45	2	504.44	1.17	ug/l	42926.55	1.49	500	100.9	90	110	
K	39	45	2	5205.83	0.26	ug/l	823385.50	0.79	5000	104.1	90	110	
Ca	44	45	2	5152.04	1.05	ug/l	36638.38	1.51	5000	103.0	90	110	
Ti	47	45	2	51.59	4.18	ug/l	2259.09	4.63	50	103.2	90	110	
V	51	45	2	48.45	0.48	ug/l	67362.26	0.60	50	96.9	90	110	
Cr	52	45	2	47.76	0.28	ug/l	81700.82	0.76	50	95.5	90	110	
Mn	55	45	2	498.51	0.29	ug/l	423201.47	0.82	500	99.7	90	110	
Fe	56	45	2	4908.10	0.17	ug/l	6213688.86	0.58	5000	98.2	90	110	
Co	59	45	2	47.85	0.37	ug/l	126613.32	0.77	50	95.7	90	110	
Ni	60	45	2	46.66	0.55	ug/l	34060.85	0.87	50	93.3	90	110	
Cu	63	45	2	47.31	0.71	ug/l	92668.68	0.67	50	94.6	90	110	
Zn	66	45	2	46.34	0.69	ug/l	10129.13	1.18	50	92.7	90	110	
As	75	74	2	50.11	0.68	ug/l	6741.56	1.10	50	100.2	90	110	
Se	78	74	1	48.96	0.42	ug/l	5132.18	0.23	50	97.9	90	110	
Sr	88	115	2	53.79	1.65	ug/l	41798.38	0.33	50	107.6	90	110	
Mo	95	115	2	49.04	2.15	ug/l	36837.15	0.96	50	98.1	90	110	
Ag	107	115	2	48.11	2.35	ug/l	114123.68	0.99	50	96.2	90	110	
Cd	111	115	2	48.32	1.27	ug/l	13776.71	0.91	50	96.6	90	110	
Sn	118	115	2	49.79	1.93	ug/l	30269.96	1.82	50	99.6	90	110	
Sb	121	115	2	51.56	0.79	ug/l	35296.39	0.68	50	103.1	90	110	
Ba	137	159	2	52.66	3.03	ug/l	14367.33	2.88	50	105.3	90	110	
Tl	205	209	2	10.00	1.99	ug/l	57335.09	1.53	10	100.0	90	110	
Pb	208	209	2	50.62	0.67	ug/l	375841.01	0.48	50	101.2	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20347	0.72	21135	96.3	60	120	
Sc	45	2	143084	0.54	130618	109.5	60	120	
Ge	74	1	58089	0.36	56992	101.9	60	120	
Ge	74	2	17563	1.30	16732	105.0	60	120	
Kr	83	2	40	58.33	23	171.4	-1000	1000	
In	115	2	94179	1.35	90201	104.4	60	120	
Tb	159	2	341915	0.20	337743	101.2	60	120	
Bi	209	2	277440	0.52	286349	96.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1736CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:48:15-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.02	-31.02	ug/l	2.00	33.50	0.2	
B	11	6	2	0.63	406.46	ug/l	555.02	10.56	20	
Na	23	45	2	1.55	64.42	ug/l	38316.87	0.87	50	
Mg	24	45	2	1.79	8.17	ug/l	593.37	4.90	50	
Al	27	45	2	0.33	31.82	ug/l	101.11	8.13	10	
K	39	45	2	15.63	144.06	ug/l	24619.93	12.80	50	
Ca	44	45	2	-2.40	-21.28	ug/l	217.23	0.44	50	
Ti	47	45	2	0.01	502.32	ug/l	3.33	49.95	1	
V	51	45	2	0.05	64.81	ug/l	140.00	29.83	1	
Cr	52	45	2	-0.03	-32.21	ug/l	276.68	4.34	1	
Mn	55	45	2	0.15	28.86	ug/l	141.11	25.48	2	
Fe	56	45	2	1.70	16.10	ug/l	4855.27	6.09	30	
Co	59	45	2	0.00	-221.04	ug/l	47.78	49.01	1	
Ni	60	45	2	-0.02	-47.37	ug/l	38.89	21.57	1	
Cu	63	45	2	-0.03	-16.55	ug/l	380.02	3.04	1	
Zn	66	45	2	-0.47	-27.09	ug/l	171.12	16.57	4	
As	75	74	2	0.02	83.54	ug/l	7.78	24.71	0.5	
Se	78	74	1	0.01	78.43	ug/l	6.67	18.08	0.5	
Sr	88	115	2	0.02	73.94	ug/l	26.67	50.01	1	
Mo	95	115	2	-0.01	-100.65	ug/l	24.44	20.83	1	
Ag	107	115	2	-0.03	-6.56	ug/l	34.44	14.78	1	
Cd	111	115	2	-0.01	-92.85	ug/l	2.22	86.60	0.5	
Sn	118	115	2	0.06	37.10	ug/l	91.11	13.85	4	
Sb	121	115	2	-0.22	-14.54	ug/l	116.67	18.74	0.5	
Ba	137	159	2	0.10	37.43	ug/l	34.44	29.57	1	
Tl	205	209	2	0.00	108.12	ug/l	96.67	17.24	0.2	
Pb	208	209	2	0.01	19.63	ug/l	226.68	5.30	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20252	1.38	21135	95.8	60	120	
Sc	45	2	143283	1.21	130618	109.7	60	120	
Ge	74	1	58785	0.62	56992	103.1	60	120	
Ge	74	2	17469	1.64	16732	104.4	60	120	
Kr	83	2	37	50.61	23	157.2	-1000	1000	
In	115	2	96643	0.47	90201	107.1	60	120	
Tb	159	2	342886	0.17	337743	101.5	60	120	
Bi	209	2	286901	0.62	286349	100.2	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**174LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:51:35-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.38	7.20	ug/l	41.66	7.72	0.4	95.8	70	130	
B	11	6	2	42.35	3.42	ug/l	1555.10	0.75	40	105.9	70	130	
Na	23	45	2	96.32	1.33	ug/l	84369.72	0.31	100	96.3	70	130	
Mg	24	45	2	97.83	1.84	ug/l	23311.84	1.42	100	97.8	70	130	
Al	27	45	2	21.23	5.03	ug/l	1897.36	5.60	20	106.2	70	130	
K	39	45	2	120.00	14.42	ug/l	41105.54	5.92	100	120.0	70	130	
Ca	44	45	2	104.82	0.93	ug/l	985.05	0.17	100	104.8	70	130	
Ti	47	45	2	2.09	11.01	ug/l	95.56	9.92	2	104.7	70	130	
V	51	45	2	2.01	2.55	ug/l	2897.02	3.28	2	100.4	70	130	
Cr	52	45	2	1.89	4.81	ug/l	3586.07	5.16	2	94.6	70	130	
Mn	55	45	2	4.11	3.32	ug/l	3539.40	4.15	4	102.7	70	130	
Fe	56	45	2	61.16	0.41	ug/l	80965.02	1.23	60	101.9	70	130	
Co	59	45	2	1.94	1.21	ug/l	5233.25	0.35	2	96.8	70	130	
Ni	60	45	2	1.90	2.28	ug/l	1453.44	2.93	2	94.8	70	130	
Cu	63	45	2	1.78	3.49	ug/l	3950.62	2.87	2	88.9	70	130	
Zn	66	45	2	7.39	3.18	ug/l	1863.50	3.10	8	92.4	70	130	
As	75	74	2	1.08	13.22	ug/l	150.56	14.10	1	107.8	70	130	
Se	78	74	1	4.90	5.17	ug/l	531.01	4.23	5	98.1	70	130	
Sr	88	115	2	2.04	4.36	ug/l	1645.70	4.83	2	101.9	70	130	
Mo	95	115	2	1.94	4.50	ug/l	1535.68	4.84	2	97.0	70	130	
Ag	107	115	2	0.90	5.48	ug/l	2310.24	3.88	1	89.8	70	130	
Cd	111	115	2	0.96	14.80	ug/l	286.68	15.73	1	95.7	70	130	
Sn	118	115	2	8.09	2.94	ug/l	5131.05	2.04	8	101.1	70	130	
Sb	121	115	2	0.72	14.03	ug/l	772.27	7.75	1	71.5	70	130	
Ba	137	159	2	2.17	6.66	ug/l	605.59	6.36	2	108.5	70	130	
Tl	205	209	2	0.40	2.83	ug/l	2476.97	2.88	0.4	101.1	70	130	
(Pb)	206	209	2	0.59	5.33	ug/l	1148.98	4.79	0.6	99.0	70	130	
(Pb)	207	209	2	0.59	2.36	ug/l	1077.86	2.01	0.6	99.1	70	130	
Pb	208	209	2	0.60	2.59	ug/l	4769.39	1.97	0.6	99.7	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20900	1.58	21135	98.9	60	120	
Sc	45	2	144638	0.86	130618	110.7	60	120	
Ge	74	1	59510	0.88	56992	104.4	60	120	
Ge	74	2	17558	1.61	16732	104.9	60	120	
Kr	83	2	31	26.97	23	133.3	-1000	1000	
In	115	2	97336	1.32	90201	107.9	60	120	
Tb	159	2	345702	0.59	337743	102.4	60	120	
Bi	209	2	287224	0.54	286349	100.3	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152118-K-20-B@2**
Data File Name	**175SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:54:56-05:00**
Type	**Sample**
VialNumber	**2509**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.05	0.10	ug/l	900	
Pb	208	209	2	0.00	-0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.02	ug/l	720	
Ba	137	159	2	194.90	389.80	ug/l	3600	
Sb	121	115	2	-0.03	-0.06	ug/l	3600	
Sn	118	115	2	0.00	-0.01	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.04	-0.09	ug/l	450	
Mo	95	115	2	0.00	0.00	ug/l	3600	
Sr	88	115	2	512.75	1025.50	ug/l	3600	
As	75	74	2	0.18	0.36	ug/l	3600	
Zn	66	45	2	5.92	11.84	ug/l	900	
Cu	63	45	2	-0.05	-0.09	ug/l	450	
Ni	60	45	2	1.06	2.12	ug/l	900	
Co	59	45	2	0.23	0.47	ug/l	1800	
Fe	56	45	2	230055.71	460111.42	ug/l	45000	fail
Mn	55	45	2	2034.51	4069.02	ug/l	18000	
Cr	52	45	2	0.57	1.14	ug/l	3600	
V	51	45	2	0.07	0.14	ug/l	3600	
Ti	47	45	2	0.03	0.06	ug/l	3600	
Ca	44	45	2	80536.99	161073.98	ug/l	360000	
K	39	45	2	68920.35	137840.70	ug/l	360000	
Al	27	45	2	39.04	78.07	ug/l	36000	
Mg	24	45	2	26085.93	52171.87	ug/l	360000	
Na	23	45	2	15376.88	30753.77	ug/l	360000	
B	11	6	2	54.27	108.54	ug/l	7200	
Be	9	6	2	0.12	0.24	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	52453	1.47	56992	92.0	60	120	
Bi	209	2	268670	0.41	286349	93.8	60	120	
Tb	159	2	348716	1.35	337743	103.2	60	120	
In	115	2	94884	0.95	90201	105.2	60	120	
Kr	83	2	34	31.11	23	147.6	-1000	1000	
Ge	74	2	17485	2.33	16732	104.5	60	120	
Sc	45	2	147214	1.69	130618	112.7	60	120	
Li	6	2	19570	2.00	21135	92.6	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**176SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T00:58:15-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.04	0.04	ug/l	3600	
Sb	121	115	2	-0.20	-0.20	ug/l	3600	
Sn	118	115	2	-0.04	-0.04	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.16	0.16	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.08	0.08	ug/l	3600	
As	75	74	2	-0.02	-0.02	ug/l	3600	
Zn	66	45	2	-0.22	-0.22	ug/l	900	
Cu	63	45	2	-0.03	-0.03	ug/l	450	
Ni	60	45	2	-0.03	-0.03	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	40.26	40.26	ug/l	45000	
Mn	55	45	2	0.38	0.38	ug/l	18000	
Cr	52	45	2	-0.04	-0.04	ug/l	3600	
V	51	45	2	0.02	0.02	ug/l	3600	
Ti	47	45	2	-0.06	-0.06	ug/l	3600	
Ca	44	45	2	11.70	11.70	ug/l	360000	
K	39	45	2	25.90	25.90	ug/l	360000	
Al	27	45	2	-0.19	-0.19	ug/l	36000	
Mg	24	45	2	4.70	4.70	ug/l	360000	
Na	23	45	2	9.99	9.99	ug/l	360000	
B	11	6	2	0.37	0.37	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59088	0.94	56992	103.7	60	120	
Bi	209	2	288624	0.59	286349	100.8	60	120	
Tb	159	2	347787	0.63	337743	103.0	60	120	
In	115	2	97705	1.45	90201	108.3	60	120	
Kr	83	2	37	55.30	23	157.1	-1000	1000	
Ge	74	2	17490	1.03	16732	104.5	60	120	
Sc	45	2	144149	0.22	130618	110.4	60	120	
Li	6	2	19816	0.69	21135	93.8	60	120	

Sample Report

Sample Name	**460-152118-J-21-B@2**
Data File Name	**177SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:01:38-05:00**
Type	**Sample**
VialNumber	**2510**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.05	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.01	0.02	ug/l	3600	
Sb	121	115	2	-0.30	-0.60	ug/l	3600	
Sn	118	115	2	-0.03	-0.07	ug/l	3600	
Cd	111	115	2	-0.01	-0.02	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	-0.01	-0.03	ug/l	3600	
Sr	88	115	2	0.05	0.10	ug/l	3600	
As	75	74	2	-0.02	-0.03	ug/l	3600	
Zn	66	45	2	-0.39	-0.78	ug/l	900	
Cu	63	45	2	-0.06	-0.12	ug/l	450	
Ni	60	45	2	-0.04	-0.07	ug/l	900	
Co	59	45	2	-0.02	-0.03	ug/l	1800	
Fe	56	45	2	3.84	7.68	ug/l	45000	
Mn	55	45	2	0.04	0.09	ug/l	18000	
Cr	52	45	2	-0.04	-0.08	ug/l	3600	
V	51	45	2	0.01	0.02	ug/l	3600	
Ti	47	45	2	0.01	0.01	ug/l	3600	
Ca	44	45	2	-0.42	-0.84	ug/l	360000	
K	39	45	2	12.55	25.09	ug/l	360000	
Al	27	45	2	0.71	1.41	ug/l	36000	
Mg	24	45	2	0.81	1.63	ug/l	360000	
Na	23	45	2	3.72	7.43	ug/l	360000	
B	11	6	2	-10.24	-20.48	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58277	0.81	56992	102.3	60	120	
Bi	209	2	286481	0.65	286349	100.0	60	120	
Tb	159	2	346647	0.28	337743	102.6	60	120	
In	115	2	96459	0.10	90201	106.9	60	120	
Kr	83	2	37	32.78	23	157.1	-1000	1000	
Ge	74	2	17794	0.96	16732	106.3	60	120	
Sc	45	2	144563	1.00	130618	110.7	60	120	
Li	6	2	20084	2.40	21135	95.0	60	120	

Sample Report

Sample Name	**460-152053-D-2-B@2**
Data File Name	**178SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:04:58-05:00**
Type	**Sample**
VialNumber	**2511**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.02	ug/l	3600	
Tl	205	209	2	-0.01	-0.01	ug/l	720	
Ba	137	159	2	0.01	0.02	ug/l	3600	
Sb	121	115	2	-0.30	-0.61	ug/l	3600	
Sn	118	115	2	-0.03	-0.05	ug/l	3600	
Cd	111	115	2	-0.01	-0.02	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	-0.03	-0.07	ug/l	3600	
Sr	88	115	2	0.03	0.06	ug/l	3600	
As	75	74	2	0.00	0.00	ug/l	3600	
Zn	66	45	2	-0.52	-1.03	ug/l	900	
Cu	63	45	2	-0.08	-0.15	ug/l	450	
Ni	60	45	2	-0.04	-0.09	ug/l	900	
Co	59	45	2	-0.02	-0.04	ug/l	1800	
Fe	56	45	2	0.55	1.09	ug/l	45000	
Mn	55	45	2	0.01	0.03	ug/l	18000	
Cr	52	45	2	-0.05	-0.11	ug/l	3600	
V	51	45	2	0.01	0.01	ug/l	3600	
Ti	47	45	2	-0.03	-0.06	ug/l	3600	
Ca	44	45	2	-2.37	-4.75	ug/l	360000	
K	39	45	2	12.34	24.68	ug/l	360000	
Al	27	45	2	0.54	1.08	ug/l	36000	
Mg	24	45	2	0.45	0.89	ug/l	360000	
Na	23	45	2	2.26	4.53	ug/l	360000	
B	11	6	2	-12.15	-24.29	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59032	1.22	56992	103.6	60	120	
Bi	209	2	287264	0.40	286349	100.3	60	120	
Tb	159	2	347914	0.35	337743	103.0	60	120	
In	115	2	96010	0.60	90201	106.4	60	120	
Kr	83	2	34	5.60	23	147.6	-1000	1000	
Ge	74	2	17706	1.48	16732	105.8	60	120	
Sc	45	2	146024	0.88	130618	111.8	60	120	
Li	6	2	20548	0.56	21135	97.2	60	120	

Sample Report

Sample Name	**460-152053-D-3-B@2**
Data File Name	**179SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:08:18-05:00**
Type	**Sample**
VialNumber	**2512**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.03	0.06	ug/l	900	
Pb	208	209	2	0.06	0.13	ug/l	3600	
Tl	205	209	2	0.01	0.02	ug/l	720	
Ba	137	159	2	161.88	323.77	ug/l	3600	
Sb	121	115	2	-0.30	-0.59	ug/l	3600	
Sn	118	115	2	-0.01	-0.02	ug/l	3600	
Cd	111	115	2	0.16	0.31	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.02	0.03	ug/l	3600	
Sr	88	115	2	896.54	1793.08	ug/l	3600	
As	75	74	2	0.09	0.17	ug/l	3600	
Zn	66	45	2	14.08	28.15	ug/l	900	
Cu	63	45	2	0.48	0.96	ug/l	450	
Ni	60	45	2	31.27	62.55	ug/l	900	
Co	59	45	2	0.31	0.63	ug/l	1800	
Fe	56	45	2	37.57	75.13	ug/l	45000	
Mn	55	45	2	65.09	130.19	ug/l	18000	
Cr	52	45	2	-0.02	-0.03	ug/l	3600	
V	51	45	2	0.14	0.29	ug/l	3600	
Ti	47	45	2	-0.01	-0.01	ug/l	3600	
Ca	44	45	2	72075.55	144151.10	ug/l	360000	
K	39	45	2	8035.86	16071.72	ug/l	360000	
Al	27	45	2	4.89	9.78	ug/l	36000	
Mg	24	45	2	49851.98	99703.96	ug/l	360000	
Na	23	45	2	119561.28	239122.55	ug/l	360000	
B	11	6	2	47.75	95.49	ug/l	7200	
Be	9	6	2	0.03	0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	53915	0.43	56992	94.6	60	120	
Bi	209	2	250642	0.30	286349	87.5	60	120	
Tb	159	2	332710	0.46	337743	98.5	60	120	
In	115	2	90609	0.46	90201	100.5	60	120	
Kr	83	2	44	15.61	23	190.5	-1000	1000	
Ge	74	2	17049	2.19	16732	101.9	60	120	
Sc	45	2	144259	0.55	130618	110.4	60	120	
Li	6	2	20558	0.25	21135	97.3	60	120	

Sample Report

Sample Name	**460-152053-D-4-B@2**
Data File Name	**180SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:11:35-05:00**
Type	**Sample**
VialNumber	**3501**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.07	ug/l	900	
Pb	208	209	2	-0.01	-0.02	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	187.67	375.34	ug/l	3600	
Sb	121	115	2	-0.30	-0.60	ug/l	3600	
Sn	118	115	2	-0.03	-0.06	ug/l	3600	
Cd	111	115	2	0.02	0.05	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.10	0.20	ug/l	3600	
Sr	88	115	2	248.04	496.08	ug/l	3600	
As	75	74	2	0.24	0.48	ug/l	3600	
Zn	66	45	2	3.31	6.62	ug/l	900	
Cu	63	45	2	0.23	0.46	ug/l	450	
Ni	60	45	2	1.43	2.86	ug/l	900	
Co	59	45	2	0.20	0.40	ug/l	1800	
Fe	56	45	2	0.69	1.38	ug/l	45000	
Mn	55	45	2	811.35	1622.70	ug/l	18000	
Cr	52	45	2	-0.05	-0.11	ug/l	3600	
V	51	45	2	0.05	0.09	ug/l	3600	
Ti	47	45	2	0.02	0.04	ug/l	3600	
Ca	44	45	2	19224.91	38449.81	ug/l	360000	
K	39	45	2	1352.98	2705.97	ug/l	360000	
Al	27	45	2	1.23	2.45	ug/l	36000	
Mg	24	45	2	15607.74	31215.49	ug/l	360000	
Na	23	45	2	14581.50	29163.00	ug/l	360000	
B	11	6	2	18.62	37.24	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58750	0.73	56992	103.1	60	120	
Bi	209	2	275042	0.66	286349	96.1	60	120	
Tb	159	2	346484	0.49	337743	102.6	60	120	
In	115	2	97361	0.61	90201	107.9	60	120	
Kr	83	2	24	31.49	23	104.8	-1000	1000	
Ge	74	2	17884	0.61	16732	106.9	60	120	
Sc	45	2	146547	1.45	130618	112.2	60	120	
Li	6	2	20917	0.49	21135	99.0	60	120	

Sample Report

Sample Name	**460-152053-D-5-B@2**
Data File Name	**181SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:14:54-05:00**
Type	**Sample**
VialNumber	**3502**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.04	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	333.44	666.89	ug/l	3600	
Sb	121	115	2	-0.29	-0.58	ug/l	3600	
Sn	118	115	2	-0.04	-0.09	ug/l	3600	
Cd	111	115	2	-0.01	-0.03	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.03	0.05	ug/l	3600	
Sr	88	115	2	465.31	930.62	ug/l	3600	
As	75	74	2	0.27	0.54	ug/l	3600	
Zn	66	45	2	2.12	4.23	ug/l	900	
Cu	63	45	2	0.01	0.01	ug/l	450	
Ni	60	45	2	104.44	208.89	ug/l	900	
Co	59	45	2	1.06	2.11	ug/l	1800	
Fe	56	45	2	304.90	609.80	ug/l	45000	
Mn	55	45	2	1360.21	2720.42	ug/l	18000	
Cr	52	45	2	-0.03	-0.06	ug/l	3600	
V	51	45	2	0.09	0.18	ug/l	3600	
Ti	47	45	2	0.06	0.11	ug/l	3600	
Ca	44	45	2	38689.08	77378.16	ug/l	360000	
K	39	45	2	2077.80	4155.61	ug/l	360000	
Al	27	45	2	1.15	2.30	ug/l	36000	
Mg	24	45	2	21162.24	42324.47	ug/l	360000	
Na	23	45	2	22537.27	45074.53	ug/l	360000	
B	11	6	2	177.52	355.03	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58723	0.71	56992	103.0	60	120	
Bi	209	2	268430	0.50	286349	93.7	60	120	
Tb	159	2	345636	1.06	337743	102.3	60	120	
In	115	2	94592	0.83	90201	104.9	60	120	
Kr	83	2	30	19.25	23	128.6	-1000	1000	
Ge	74	2	17761	1.39	16732	106.1	60	120	
Sc	45	2	145987	0.57	130618	111.8	60	120	
Li	6	2	20972	0.93	21135	99.2	60	120	

Sample Report

Sample Name	**460-152118-K-20-B@20**
Data File Name	**182SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:18:12-05:00**
Type	**Sample**
VialNumber	**3512**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.41	ug/l	900	
Pb	208	209	2	0.05	0.95	ug/l	3600	
Tl	205	209	2	-0.01	-0.13	ug/l	720	
Ba	137	159	2	19.82	396.39	ug/l	3600	
Sb	121	115	2	-0.22	-4.34	ug/l	3600	
Sn	118	115	2	0.01	0.25	ug/l	3600	
Cd	111	115	2	0.00	-0.07	ug/l	3600	
Ag	107	115	2	-0.04	-0.84	ug/l	450	
Mo	95	115	2	-0.02	-0.47	ug/l	3600	
Sr	88	115	2	52.28	1045.53	ug/l	3600	
As	75	74	2	0.01	0.24	ug/l	3600	
Zn	66	45	2	1.47	29.42	ug/l	900	
Cu	63	45	2	-0.06	-1.14	ug/l	450	
Ni	60	45	2	0.06	1.27	ug/l	900	
Co	59	45	2	0.02	0.31	ug/l	1800	
Fe	56	45	2	23972.13	479442.70	ug/l	45000	
Mn	55	45	2	205.48	4109.53	ug/l	18000	
Cr	52	45	2	0.01	0.20	ug/l	3600	
V	51	45	2	0.05	0.95	ug/l	3600	
Ti	47	45	2	0.05	1.10	ug/l	3600	
Ca	44	45	2	8286.51	165730.20	ug/l	360000	
K	39	45	2	7389.83	147796.68	ug/l	360000	
Al	27	45	2	5.19	103.78	ug/l	36000	
Mg	24	45	2	2733.88	54677.56	ug/l	360000	
Na	23	45	2	1579.74	31594.84	ug/l	360000	
B	11	6	2	5.16	103.26	ug/l	7200	
Be	9	6	2	-0.02	-0.46	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57852	1.34	56992	101.5	60	120	
Bi	209	2	283675	0.75	286349	99.1	60	120	
Tb	159	2	347056	0.11	337743	102.8	60	120	
In	115	2	95976	1.14	90201	106.4	60	120	
Kr	83	2	38	41.70	23	161.9	-1000	1000	
Ge	74	2	17870	0.53	16732	106.8	60	120	
Sc	45	2	146985	0.74	130618	112.5	60	120	
Li	6	2	19989	1.46	21135	94.6	60	120	

Sample Report

Sample Name	**460-152053-D-6-B@2**
Data File Name	**183SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:21:30-05:00**
Type	**Sample**
VialNumber	**3503**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.09	0.18	ug/l	900	
Pb	208	209	2	0.00	0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	143.54	287.07	ug/l	3600	
Sb	121	115	2	-0.29	-0.57	ug/l	3600	
Sn	118	115	2	-0.01	-0.01	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.04	0.08	ug/l	3600	
Sr	88	115	2	213.15	426.29	ug/l	3600	
As	75	74	2	0.22	0.45	ug/l	3600	
Zn	66	45	2	2.02	4.04	ug/l	900	
Cu	63	45	2	1.17	2.34	ug/l	450	
Ni	60	45	2	3.82	7.63	ug/l	900	
Co	59	45	2	4.46	8.91	ug/l	1800	
Fe	56	45	2	6.75	13.49	ug/l	45000	
Mn	55	45	2	665.40	1330.81	ug/l	18000	
Cr	52	45	2	0.05	0.10	ug/l	3600	
V	51	45	2	0.06	0.12	ug/l	3600	
Ti	47	45	2	0.09	0.18	ug/l	3600	
Ca	44	45	2	15562.78	31125.56	ug/l	360000	
K	39	45	2	2504.42	5008.84	ug/l	360000	
Al	27	45	2	3.65	7.30	ug/l	36000	
Mg	24	45	2	11706.11	23412.22	ug/l	360000	
Na	23	45	2	38814.37	77628.75	ug/l	360000	
B	11	6	2	2070.86	4141.71	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58797	0.66	56992	103.2	60	120	
Bi	209	2	271648	1.08	286349	94.9	60	120	
Tb	159	2	348590	0.69	337743	103.2	60	120	
In	115	2	95823	0.46	90201	106.2	60	120	
Kr	83	2	43	35.25	23	185.7	-1000	1000	
Ge	74	2	17795	0.48	16732	106.4	60	120	
Sc	45	2	147762	1.35	130618	113.1	60	120	
Li	6	2	20522	1.99	21135	97.1	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1846CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:24:49-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.74	1.67	ug/l	4763.15	0.51	50	101.5	90	110	
B	11	6	2	113.47	1.60	ug/l	3102.01	2.61	100	113.5	90	110	6-CCV Main Failed
Na	23	45	2	5009.15	1.09	ug/l	2533233.02	0.85	5000	100.2	90	110	
Mg	24	45	2	4904.25	1.01	ug/l	1198154.34	1.01	5000	98.1	90	110	
Al	27	45	2	502.42	1.44	ug/l	44637.78	1.86	500	100.5	90	110	
K	39	45	2	5204.25	0.36	ug/l	859362.29	0.63	5000	104.1	90	110	
Ca	44	45	2	5091.32	0.99	ug/l	37801.07	0.82	5000	101.8	90	110	
Ti	47	45	2	51.75	2.04	ug/l	2365.77	2.23	50	103.5	90	110	
V	51	45	2	48.04	0.63	ug/l	69722.84	0.34	50	96.1	90	110	
Cr	52	45	2	47.73	1.45	ug/l	85250.47	1.17	50	95.5	90	110	
Mn	55	45	2	492.42	0.76	ug/l	436426.40	0.87	500	98.5	90	110	
Fe	56	45	2	4833.26	0.49	ug/l	6388288.10	0.73	5000	96.7	90	110	
Co	59	45	2	47.11	0.84	ug/l	130138.25	1.02	50	94.2	90	110	
Ni	60	45	2	46.50	1.08	ug/l	35438.46	1.47	50	93.0	90	110	
Cu	63	45	2	46.67	0.43	ug/l	95451.76	0.69	50	93.3	90	110	
Zn	66	45	2	45.97	1.66	ug/l	10491.61	1.20	50	91.9	90	110	
As	75	74	2	51.18	2.11	ug/l	7055.59	2.67	50	102.4	90	110	
Se	78	74	1	48.88	0.59	ug/l	5308.25	1.09	50	97.8	90	110	
Sr	88	115	2	52.83	2.07	ug/l	42491.75	1.50	50	105.7	90	110	
Mo	95	115	2	48.08	1.24	ug/l	37388.57	0.67	50	96.2	90	110	
Ag	107	115	2	47.62	1.60	ug/l	116932.50	1.15	50	95.2	90	110	
Cd	111	115	2	47.89	0.47	ug/l	14133.66	0.57	50	95.8	90	110	
Sn	118	115	2	48.89	0.19	ug/l	30766.53	0.44	50	97.8	90	110	
Sb	121	115	2	50.50	0.96	ug/l	35790.85	0.38	50	101.0	90	110	
Ba	137	159	2	52.80	0.63	ug/l	14753.28	0.87	50	105.6	90	110	
Tl	205	209	2	9.99	0.53	ug/l	57940.69	0.72	10	99.9	90	110	
Pb	208	209	2	50.71	0.91	ug/l	380924.62	1.12	50	101.4	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20065	1.29	21135	94.9	60	120	
Sc	45	2	149381	0.44	130618	114.4	60	120	
Ge	74	1	60188	0.60	56992	105.6	60	120	
Ge	74	2	17994	0.56	16732	107.5	60	120	
Kr	83	2	34	31.11	23	147.6	-1000	1000	
In	115	2	97475	0.58	90201	108.1	60	120	
Tb	159	2	350164	0.29	337743	103.7	60	120	
Bi	209	2	280655	0.23	286349	98.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1856CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:28:08-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.02	-47.86	ug/l	2.00	50.00	0.2	
B	11	6	2	6.61	24.60	ug/l	686.14	4.77	20	
Na	23	45	2	2.44	43.32	ug/l	40375.17	0.68	50	
Mg	24	45	2	1.50	9.60	ug/l	547.81	5.52	50	
Al	27	45	2	0.19	26.07	ug/l	92.78	4.52	10	
K	39	45	2	16.70	150.86	ug/l	25823.09	14.30	50	
Ca	44	45	2	-0.26	-529.93	ug/l	242.23	5.16	50	
Ti	47	45	2	0.02	123.10	ug/l	3.89	24.81	1	
V	51	45	2	0.05	8.77	ug/l	155.56	3.27	1	
Cr	52	45	2	-0.03	-51.74	ug/l	280.01	10.91	1	
Mn	55	45	2	0.13	18.97	ug/l	128.89	17.22	2	
Fe	56	45	2	1.33	21.58	ug/l	4570.18	7.11	30	
Co	59	45	2	-0.01	-41.16	ug/l	28.89	46.62	1	
Ni	60	45	2	-0.04	-40.50	ug/l	30.00	40.05	1	
Cu	63	45	2	-0.05	-27.39	ug/l	363.35	7.34	1	
Zn	66	45	2	-0.43	-38.09	ug/l	187.78	20.19	4	
As	75	74	2	0.02	121.06	ug/l	7.78	32.73	0.5	
Se	78	74	1	0.03	50.13	ug/l	8.44	18.19	0.5	
Sr	88	115	2	0.02	65.69	ug/l	26.66	43.31	1	
Mo	95	115	2	0.00	-155.20	ug/l	27.78	13.86	1	
Ag	107	115	2	-0.03	-4.03	ug/l	30.00	11.12	1	
Cd	111	115	2	-0.01	-176.31	ug/l	2.22	173.21	0.5	
Sn	118	115	2	0.04	33.63	ug/l	83.34	10.59	4	
Sb	121	115	2	-0.24	-5.93	ug/l	101.11	10.07	0.5	
Ba	137	159	2	0.09	39.19	ug/l	32.22	29.85	1	
Tl	205	209	2	0.00	-136.91	ug/l	76.67	11.50	0.2	
Pb	208	209	2	0.00	146.73	ug/l	201.12	17.88	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20100	1.34	21135	95.1	60	120	
Sc	45	2	149320	1.26	130618	114.3	60	120	
Ge	74	1	60870	0.58	56992	106.8	60	120	
Ge	74	2	18160	1.00	16732	108.5	60	120	
Kr	83	2	53	6.25	23	228.6	-1000	1000	
In	115	2	99507	0.25	90201	110.3	60	120	
Tb	159	2	353529	0.35	337743	104.7	60	120	
Bi	209	2	293057	1.04	286349	102.3	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**186LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:31:28-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.38	6.51	ug/l	40.22	5.64	0.4	94.1	70	130	
B	11	6	2	46.97	6.34	ug/l	1634.00	4.01	40	117.4	70	130	
Na	23	45	2	100.00	2.36	ug/l	88792.29	1.18	100	100.0	70	130	
Mg	24	45	2	99.19	0.49	ug/l	24363.42	1.18	100	99.2	70	130	
Al	27	45	2	20.07	1.59	ug/l	1852.36	2.35	20	100.4	70	130	
K	39	45	2	122.79	16.82	ug/l	42803.57	6.54	100	122.8	70	130	
Ca	44	45	2	108.31	3.04	ug/l	1041.16	3.00	100	108.3	70	130	
Ti	47	45	2	2.31	9.10	ug/l	108.34	9.61	2	115.4	70	130	
V	51	45	2	2.00	5.92	ug/l	2971.49	4.56	2	100.0	70	130	
Cr	52	45	2	1.86	3.47	ug/l	3631.65	3.44	2	92.8	70	130	
Mn	55	45	2	4.09	5.31	ug/l	3627.20	4.86	4	102.1	70	130	
Fe	56	45	2	61.59	1.18	ug/l	84014.94	1.10	60	102.6	70	130	
Co	59	45	2	1.91	3.69	ug/l	5321.05	2.45	2	95.5	70	130	
Ni	60	45	2	1.92	3.19	ug/l	1520.13	2.19	2	96.2	70	130	
Cu	63	45	2	1.88	6.60	ug/l	4269.60	4.82	2	93.8	70	130	
Zn	66	45	2	7.44	8.09	ug/l	1932.40	8.11	8	93.0	70	130	
As	75	74	2	0.89	3.20	ug/l	128.33	2.25	1	88.6	70	130	
Se	78	74	1	5.02	3.77	ug/l	559.57	2.82	5	100.4	70	130	
Sr	88	115	2	2.11	1.68	ug/l	1742.38	1.34	2	105.7	70	130	
Mo	95	115	2	1.97	4.48	ug/l	1589.03	3.57	2	98.4	70	130	
Ag	107	115	2	0.92	4.96	ug/l	2416.94	3.85	1	92.1	70	130	
Cd	111	115	2	0.94	19.96	ug/l	287.79	20.41	1	94.1	70	130	
Sn	118	115	2	8.13	3.49	ug/l	5263.32	2.64	8	101.6	70	130	
Sb	121	115	2	0.76	21.56	ug/l	821.16	13.66	1	76.0	70	130	
Ba	137	159	2	2.18	4.02	ug/l	617.81	2.97	2	109.1	70	130	
Tl	205	209	2	0.40	1.18	ug/l	2499.20	1.34	0.4	99.9	70	130	
(Pb)	206	209	2	0.58	5.29	ug/l	1154.53	5.30	0.6	97.4	70	130	
(Pb)	207	209	2	0.57	5.81	ug/l	1047.85	5.69	0.6	94.2	70	130	
Pb	208	209	2	0.59	3.12	ug/l	4832.72	3.20	0.6	99.0	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20520	0.39	21135	97.1	60	120	
Sc	45	2	149087	1.29	130618	114.1	60	120	
Ge	74	1	61279	1.21	56992	107.5	60	120	
Ge	74	2	18085	0.86	16732	108.1	60	120	
Kr	83	2	49	43.84	23	209.5	-1000	1000	
In	115	2	99413	0.87	90201	110.2	60	120	
Tb	159	2	350944	1.05	337743	103.9	60	120	
Bi	209	2	293186	0.19	286349	102.4	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152053-D-7-B@2**
Data File Name	**187SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:34:49-05:00**
Type	**Sample**
VialNumber	**3504**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.25	0.51	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.01	ug/l	720	
Ba	137	159	2	49.81	99.61	ug/l	3600	
Sb	121	115	2	-0.26	-0.53	ug/l	3600	
Sn	118	115	2	-0.01	-0.02	ug/l	3600	
Cd	111	115	2	0.03	0.06	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	6.08	12.16	ug/l	3600	
Sr	88	115	2	534.56	1069.11	ug/l	3600	
As	75	74	2	0.21	0.42	ug/l	3600	
Zn	66	45	2	8.20	16.40	ug/l	900	
Cu	63	45	2	2.46	4.93	ug/l	450	
Ni	60	45	2	6.66	13.32	ug/l	900	
Co	59	45	2	11.15	22.29	ug/l	1800	
Fe	56	45	2	4.66	9.33	ug/l	45000	
Mn	55	45	2	551.53	1103.05	ug/l	18000	
Cr	52	45	2	0.09	0.18	ug/l	3600	
V	51	45	2	0.08	0.15	ug/l	3600	
Ti	47	45	2	0.01	0.01	ug/l	3600	
Ca	44	45	2	68312.01	136624.02	ug/l	360000	
K	39	45	2	1946.15	3892.29	ug/l	360000	
Al	27	45	2	1.96	3.91	ug/l	36000	
Mg	24	45	2	16461.43	32922.87	ug/l	360000	
Na	23	45	2	44281.38	88562.77	ug/l	360000	
B	11	6	2	3754.94	7509.87	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57784	0.64	56992	101.4	60	120	
Bi	209	2	266168	0.22	286349	93.0	60	120	
Tb	159	2	344084	0.39	337743	101.9	60	120	
In	115	2	94819	0.91	90201	105.1	60	120	
Kr	83	2	40	30.04	23	171.4	-1000	1000	
Ge	74	2	17861	0.50	16732	106.7	60	120	
Sc	45	2	148722	0.76	130618	113.9	60	120	
Li	6	2	19880	0.99	21135	94.1	60	120	

Sample Report

Sample Name	**460-152053-D-8-B@2**
Data File Name	**188SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:38:08-05:00**
Type	**Sample**
VialNumber	**3505**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.03	ug/l	900	
Pb	208	209	2	0.00	0.00	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	46.66	93.32	ug/l	3600	
Sb	121	115	2	-0.32	-0.64	ug/l	3600	
Sn	118	115	2	-0.01	-0.02	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.95	1.91	ug/l	3600	
Sr	88	115	2	418.02	836.03	ug/l	3600	
As	75	74	2	0.37	0.73	ug/l	3600	
Zn	66	45	2	2.17	4.34	ug/l	900	
Cu	63	45	2	0.15	0.29	ug/l	450	
Ni	60	45	2	3.16	6.32	ug/l	900	
Co	59	45	2	1.22	2.45	ug/l	1800	
Fe	56	45	2	3967.24	7934.49	ug/l	45000	
Mn	55	45	2	2603.34	5206.68	ug/l	18000	
Cr	52	45	2	-0.03	-0.06	ug/l	3600	
V	51	45	2	0.02	0.05	ug/l	3600	
Ti	47	45	2	0.07	0.13	ug/l	3600	
Ca	44	45	2	36193.18	72386.36	ug/l	360000	
K	39	45	2	2089.62	4179.24	ug/l	360000	
Al	27	45	2	2.06	4.12	ug/l	36000	
Mg	24	45	2	19216.62	38433.24	ug/l	360000	
Na	23	45	2	41342.58	82685.17	ug/l	360000	
B	11	6	2	1612.58	3225.17	ug/l	7200	
Be	9	6	2	-0.02	-0.05	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58529	1.64	56992	102.7	60	120	
Bi	209	2	268825	0.87	286349	93.9	60	120	
Tb	159	2	347586	0.66	337743	102.9	60	120	
In	115	2	94953	0.21	90201	105.3	60	120	
Kr	83	2	40	25.00	23	171.4	-1000	1000	
Ge	74	2	17845	0.29	16732	106.7	60	120	
Sc	45	2	147772	0.62	130618	113.1	60	120	
Li	6	2	20060	1.14	21135	94.9	60	120	

Sample Report

Sample Name	**460-152053-D-9-B@2**
Data File Name	**189SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:41:26-05:00**
Type	**Sample**
VialNumber	**3506**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.03	ug/l	900	
Pb	208	209	2	0.08	0.17	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	218.62	437.25	ug/l	3600	
Sb	121	115	2	-0.32	-0.65	ug/l	3600	
Sn	118	115	2	-0.02	-0.04	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.52	1.03	ug/l	3600	
Sr	88	115	2	496.77	993.55	ug/l	3600	
As	75	74	2	0.08	0.15	ug/l	3600	
Zn	66	45	2	1.95	3.90	ug/l	900	
Cu	63	45	2	0.05	0.10	ug/l	450	
Ni	60	45	2	0.73	1.46	ug/l	900	
Co	59	45	2	0.40	0.79	ug/l	1800	
Fe	56	45	2	610.71	1221.43	ug/l	45000	
Mn	55	45	2	2061.24	4122.47	ug/l	18000	
Cr	52	45	2	0.03	0.06	ug/l	3600	
V	51	45	2	0.03	0.06	ug/l	3600	
Ti	47	45	2	0.02	0.03	ug/l	3600	
Ca	44	45	2	36919.22	73838.44	ug/l	360000	
K	39	45	2	2215.48	4430.97	ug/l	360000	
Al	27	45	2	2.12	4.23	ug/l	36000	
Mg	24	45	2	19525.14	39050.28	ug/l	360000	
Na	23	45	2	20713.12	41426.24	ug/l	360000	
B	11	6	2	583.27	1166.55	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59581	0.64	56992	104.5	60	120	
Bi	209	2	272908	0.54	286349	95.3	60	120	
Tb	159	2	349884	0.38	337743	103.6	60	120	
In	115	2	97001	0.10	90201	107.5	60	120	
Kr	83	2	29	53.30	23	123.8	-1000	1000	
Ge	74	2	18129	1.47	16732	108.3	60	120	
Sc	45	2	149053	0.48	130618	114.1	60	120	
Li	6	2	20348	0.79	21135	96.3	60	120	

Sample Report

Sample Name	**460-152053-D-10-B@2**
Data File Name	**190SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:44:44-05:00**
Type	**Sample**
VialNumber	**3507**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.00	-0.01	ug/l	900	
Pb	208	209	2	0.10	0.19	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	21.16	42.32	ug/l	3600	
Sb	121	115	2	-0.26	-0.53	ug/l	3600	
Sn	118	115	2	0.00	0.00	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	-0.04	-0.08	ug/l	450	
Mo	95	115	2	0.10	0.21	ug/l	3600	
Sr	88	115	2	51.27	102.54	ug/l	3600	
As	75	74	2	3.47	6.94	ug/l	3600	
Zn	66	45	2	8.17	16.33	ug/l	900	
Cu	63	45	2	2.89	5.77	ug/l	450	
Ni	60	45	2	1.12	2.24	ug/l	900	
Co	59	45	2	0.02	0.03	ug/l	1800	
Fe	56	45	2	94.63	189.26	ug/l	45000	
Mn	55	45	2	8.49	16.98	ug/l	18000	
Cr	52	45	2	0.33	0.66	ug/l	3600	
V	51	45	2	0.43	0.86	ug/l	3600	
Ti	47	45	2	3.03	6.06	ug/l	3600	
Ca	44	45	2	5785.66	11571.31	ug/l	360000	
K	39	45	2	1112.90	2225.79	ug/l	360000	
Al	27	45	2	132.79	265.59	ug/l	36000	
Mg	24	45	2	1841.74	3683.48	ug/l	360000	
Na	23	45	2	4789.19	9578.39	ug/l	360000	
B	11	6	2	28.55	57.09	ug/l	7200	
Be	9	6	2	-0.03	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	60707	0.82	56992	106.5	60	120	
Bi	209	2	286406	0.76	286349	100.0	60	120	
Tb	159	2	351654	0.16	337743	104.1	60	120	
In	115	2	98729	0.39	90201	109.5	60	120	
Kr	83	2	44	17.33	23	190.5	-1000	1000	
Ge	74	2	18164	1.07	16732	108.6	60	120	
Sc	45	2	149141	0.77	130618	114.2	60	120	
Li	6	2	21066	1.36	21135	99.7	60	120	

Sample Report

Sample Name	**460-152053-D-11-B@2**
Data File Name	**191SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:48:04-05:00**
Type	**Sample**
VialNumber	**3508**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.02	-0.04	ug/l	900	
Pb	208	209	2	0.00	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	108.75	217.50	ug/l	3600	
Sb	121	115	2	-0.31	-0.63	ug/l	3600	
Sn	118	115	2	-0.03	-0.07	ug/l	3600	
Cd	111	115	2	0.00	0.00	ug/l	3600	
Ag	107	115	2	-0.04	-0.09	ug/l	450	
Mo	95	115	2	0.08	0.15	ug/l	3600	
Sr	88	115	2	199.28	398.56	ug/l	3600	
As	75	74	2	0.21	0.42	ug/l	3600	
Zn	66	45	2	89.38	178.75	ug/l	900	
Cu	63	45	2	0.60	1.20	ug/l	450	
Ni	60	45	2	4.11	8.23	ug/l	900	
Co	59	45	2	1.42	2.83	ug/l	1800	
Fe	56	45	2	1.37	2.74	ug/l	45000	
Mn	55	45	2	655.81	1311.62	ug/l	18000	
Cr	52	45	2	0.05	0.10	ug/l	3600	
V	51	45	2	0.13	0.27	ug/l	3600	
Ti	47	45	2	0.08	0.16	ug/l	3600	
Ca	44	45	2	16159.16	32318.32	ug/l	360000	
K	39	45	2	775.43	1550.86	ug/l	360000	
Al	27	45	2	2.40	4.81	ug/l	36000	
Mg	24	45	2	12291.12	24582.24	ug/l	360000	
Na	23	45	2	39585.80	79171.60	ug/l	360000	
B	11	6	2	67.91	135.82	ug/l	7200	
Be	9	6	2	-0.03	-0.06	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59466	0.42	56992	104.3	60	120	
Bi	209	2	269989	1.29	286349	94.3	60	120	
Tb	159	2	343390	0.61	337743	101.7	60	120	
In	115	2	94911	1.00	90201	105.2	60	120	
Kr	83	2	41	40.82	23	176.2	-1000	1000	
Ge	74	2	17887	1.22	16732	106.9	60	120	
Sc	45	2	148769	1.36	130618	113.9	60	120	
Li	6	2	20832	0.82	21135	98.6	60	120	

Sample Report

Sample Name	**460-152053-D-12-B@2**
Data File Name	**192SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:51:22-05:00**
Type	**Sample**
VialNumber	**3509**
Dilution	**2**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-0.03	ug/l	900	
Pb	208	209	2	0.01	0.01	ug/l	3600	
Tl	205	209	2	0.00	-0.01	ug/l	720	
Ba	137	159	2	107.17	214.34	ug/l	3600	
Sb	121	115	2	-0.28	-0.57	ug/l	3600	
Sn	118	115	2	-0.01	-0.03	ug/l	3600	
Cd	111	115	2	0.01	0.02	ug/l	3600	
Ag	107	115	2	-0.04	-0.09	ug/l	450	
Mo	95	115	2	0.32	0.64	ug/l	3600	
Sr	88	115	2	196.19	392.38	ug/l	3600	
As	75	74	2	0.20	0.40	ug/l	3600	
Zn	66	45	2	78.05	156.10	ug/l	900	
Cu	63	45	2	0.51	1.02	ug/l	450	
Ni	60	45	2	4.00	7.99	ug/l	900	
Co	59	45	2	1.38	2.77	ug/l	1800	
Fe	56	45	2	1.05	2.09	ug/l	45000	
Mn	55	45	2	661.56	1323.12	ug/l	18000	
Cr	52	45	2	0.05	0.10	ug/l	3600	
V	51	45	2	0.14	0.28	ug/l	3600	
Ti	47	45	2	0.02	0.03	ug/l	3600	
Ca	44	45	2	16028.21	32056.42	ug/l	360000	
K	39	45	2	792.83	1585.67	ug/l	360000	
Al	27	45	2	2.19	4.39	ug/l	36000	
Mg	24	45	2	12216.43	24432.85	ug/l	360000	
Na	23	45	2	39618.37	79236.73	ug/l	360000	
B	11	6	2	62.88	125.76	ug/l	7200	
Be	9	6	2	-0.04	-0.07	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58648	0.51	56992	102.9	60	120	
Bi	209	2	270996	0.40	286349	94.6	60	120	
Tb	159	2	344873	0.44	337743	102.1	60	120	
In	115	2	95455	0.68	90201	105.8	60	120	
Kr	83	2	43	7.70	23	185.7	-1000	1000	
Ge	74	2	17984	1.17	16732	107.5	60	120	
Sc	45	2	148228	0.91	130618	113.5	60	120	
Li	6	2	21107	1.70	21135	99.9	60	120	

Sample Report

Sample Name	**Rn chk**
Data File Name	**193SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:54:44-05:00**
Type	**Sample**
VialNumber	**4**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.03	-0.03	ug/l	900	
Pb	208	209	2	-0.01	-0.01	ug/l	3600	
Tl	205	209	2	0.00	0.00	ug/l	720	
Ba	137	159	2	0.01	0.01	ug/l	3600	
Sb	121	115	2	-0.27	-0.27	ug/l	3600	
Sn	118	115	2	-0.02	-0.02	ug/l	3600	
Cd	111	115	2	-0.01	-0.01	ug/l	3600	
Ag	107	115	2	0.19	0.19	ug/l	450	
Mo	95	115	2	-0.03	-0.03	ug/l	3600	
Sr	88	115	2	0.02	0.02	ug/l	3600	
As	75	74	2	0.02	0.02	ug/l	3600	
Zn	66	45	2	-0.36	-0.36	ug/l	900	
Cu	63	45	2	-0.05	-0.05	ug/l	450	
Ni	60	45	2	-0.01	-0.01	ug/l	900	
Co	59	45	2	-0.02	-0.02	ug/l	1800	
Fe	56	45	2	-0.42	-0.42	ug/l	45000	
Mn	55	45	2	0.06	0.06	ug/l	18000	
Cr	52	45	2	-0.06	-0.06	ug/l	3600	
V	51	45	2	0.12	0.12	ug/l	3600	
Ti	47	45	2	-0.06	-0.06	ug/l	3600	
Ca	44	45	2	0.34	0.34	ug/l	360000	
K	39	45	2	16.10	16.10	ug/l	360000	
Al	27	45	2	-0.04	-0.04	ug/l	36000	
Mg	24	45	2	1.40	1.40	ug/l	360000	
Na	23	45	2	8.38	8.38	ug/l	360000	
B	11	6	2	5.01	5.01	ug/l	7200	
Be	9	6	2	-0.04	-0.04	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59868	0.94	56992	105.0	60	120	
Bi	209	2	290161	0.12	286349	101.3	60	120	
Tb	159	2	349631	1.06	337743	103.5	60	120	
In	115	2	98141	1.43	90201	108.8	60	120	
Kr	83	2	46	15.24	23	195.2	-1000	1000	
Ge	74	2	17908	1.24	16732	107.0	60	120	
Sc	45	2	148379	0.40	130618	113.6	60	120	
Li	6	2	21160	1.29	21135	100.1	60	120	

Sample Report

Sample Name	**460-151197-A-8-A@1000**
Data File Name	**194SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T01:58:07-05:00**
Type	**Sample**
VialNumber	**3510**
Dilution	**1000**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	-0.01	-12.26	ug/l	900	
Pb	208	209	2	17.04	17037.06	ug/l	3600	
Tl	205	209	2	0.01	11.16	ug/l	720	
Ba	137	159	2	0.73	729.23	ug/l	3600	
Sb	121	115	2	-0.31	-305.03	ug/l	3600	
Sn	118	115	2	0.10	98.77	ug/l	3600	
Cd	111	115	2	0.43	428.24	ug/l	3600	
Ag	107	115	2	-0.04	-41.94	ug/l	450	
Mo	95	115	2	-0.02	-21.01	ug/l	3600	
Sr	88	115	2	0.45	447.88	ug/l	3600	
As	75	74	2	0.10	102.26	ug/l	3600	
Zn	66	45	2	496.72	496719.56	ug/l	900	
Cu	63	45	2	3.99	3990.31	ug/l	450	
Ni	60	45	2	0.12	121.02	ug/l	900	
Co	59	45	2	0.06	58.02	ug/l	1800	
Fe	56	45	2	225.53	225527.70	ug/l	45000	
Mn	55	45	2	2.13	2129.11	ug/l	18000	
Cr	52	45	2	0.21	213.63	ug/l	3600	
V	51	45	2	0.53	532.46	ug/l	3600	
Ti	47	45	2	4.95	4951.69	ug/l	3600	
Ca	44	45	2	65.67	65665.24	ug/l	360000	
K	39	45	2	22.27	22270.60	ug/l	360000	
Al	27	45	2	160.64	160641.74	ug/l	36000	
Mg	24	45	2	48.33	48330.86	ug/l	360000	
Na	23	45	2	11.67	11674.95	ug/l	360000	
B	11	6	2	3.21	3208.06	ug/l	7200	
Be	9	6	2	-0.03	-25.76	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59683	1.24	56992	104.7	60	120	
Bi	209	2	288856	0.39	286349	100.9	60	120	
Tb	159	2	348481	0.76	337743	103.2	60	120	
In	115	2	97771	0.93	90201	108.4	60	120	
Kr	83	2	54	27.61	23	233.3	-1000	1000	
Ge	74	2	17758	1.23	16732	106.1	60	120	
Sc	45	2	148422	0.44	130618	113.6	60	120	
Li	6	2	20582	0.66	21135	97.4	60	120	

Sample Report

Sample Name	**460-152133-E-1-A@500**
Data File Name	**195SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:01:27-05:00**
Type	**Sample**
VialNumber	**3511**
Dilution	**500**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.21	104.32	ug/l	900	
Pb	208	209	2	34.70	17348.14	ug/l	3600	
Tl	205	209	2	0.11	53.56	ug/l	720	
Ba	137	159	2	36.47	18237.05	ug/l	3600	
Sb	121	115	2	0.21	103.38	ug/l	3600	
Sn	118	115	2	3.33	1664.33	ug/l	3600	
Cd	111	115	2	0.23	114.13	ug/l	3600	
Ag	107	115	2	0.03	16.37	ug/l	450	
Mo	95	115	2	1.35	674.03	ug/l	3600	
Sr	88	115	2	7.68	3838.68	ug/l	3600	
As	75	74	2	4.66	2331.29	ug/l	3600	
Zn	66	45	2	104.92	52457.70	ug/l	900	
Cu	63	45	2	7.95	3976.35	ug/l	450	
Ni	60	45	2	6.73	3363.93	ug/l	900	
Co	59	45	2	5.96	2979.91	ug/l	1800	
Fe	56	45	2	21612.25	10806123.26	ug/l	45000	
Mn	55	45	2	251.89	125947.44	ug/l	18000	
Cr	52	45	2	10.96	5479.99	ug/l	3600	
V	51	45	2	18.50	9250.07	ug/l	3600	
Ti	47	45	2	188.29	94142.96	ug/l	3600	
Ca	44	45	2	1962.31	981154.22	ug/l	360000	
K	39	45	2	338.90	169447.68	ug/l	360000	
Al	27	45	2	6762.40	3381202.25	ug/l	36000	
Mg	24	45	2	1484.81	742404.64	ug/l	360000	
Na	23	45	2	125.24	62620.26	ug/l	360000	
B	11	6	2	4.43	2215.73	ug/l	7200	
Be	9	6	2	0.41	205.15	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57313	1.14	56992	100.6	60	120	
Bi	209	2	280536	0.21	286349	98.0	60	120	
Tb	159	2	348602	0.63	337743	103.2	60	120	
In	115	2	95217	0.97	90201	105.6	60	120	
Kr	83	2	52	9.75	23	223.8	-1000	1000	
Ge	74	2	17674	0.86	16732	105.6	60	120	
Sc	45	2	146889	0.82	130618	112.5	60	120	
Li	6	2	19174	1.01	21135	90.7	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**1966CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:04:45-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.98	0.15	ug/l	4729.92	0.40	50	102.0	90	110	
B	11	6	2	106.55	2.51	ug/l	2910.30	1.97	100	106.6	90	110	
Na	23	45	2	5085.27	0.94	ug/l	2525714.25	1.14	5000	101.7	90	110	
Mg	24	45	2	4963.90	1.48	ug/l	1191291.31	1.66	5000	99.3	90	110	
Al	27	45	2	499.08	1.31	ug/l	43556.68	1.64	500	99.8	90	110	
K	39	45	2	5220.61	0.28	ug/l	846728.61	0.13	5000	104.4	90	110	
Ca	44	45	2	5134.87	0.29	ug/l	37448.55	0.64	5000	102.7	90	110	
Ti	47	45	2	51.24	0.39	ug/l	2300.76	0.44	50	102.5	90	110	
V	51	45	2	48.29	0.99	ug/l	68850.87	0.73	50	96.6	90	110	
Cr	52	45	2	47.51	0.48	ug/l	83354.71	0.12	50	95.0	90	110	
Mn	55	45	2	495.98	0.44	ug/l	431801.50	0.78	500	99.2	90	110	
Fe	56	45	2	4856.73	0.83	ug/l	6305802.20	1.20	5000	97.1	90	110	
Co	59	45	2	47.46	1.13	ug/l	128783.98	1.42	50	94.9	90	110	
Ni	60	45	2	46.86	1.01	ug/l	35081.05	1.11	50	93.7	90	110	
Cu	63	45	2	46.82	1.14	ug/l	94052.64	1.50	50	93.6	90	110	
Zn	66	45	2	46.77	2.86	ug/l	10481.59	2.45	50	93.5	90	110	
As	75	74	2	50.42	1.10	ug/l	6789.36	1.14	50	100.8	90	110	
Se	78	74	1	48.97	1.05	ug/l	5194.10	1.24	50	97.9	90	110	
Sr	88	115	2	53.21	1.65	ug/l	42130.55	1.06	50	106.4	90	110	
Mo	95	115	2	48.89	1.52	ug/l	37420.87	0.20	50	97.8	90	110	
Ag	107	115	2	47.74	1.16	ug/l	115386.70	0.39	50	95.5	90	110	
Cd	111	115	2	47.99	0.36	ug/l	13944.63	1.47	50	96.0	90	110	
Sn	118	115	2	50.28	1.52	ug/l	31147.26	1.25	50	100.6	90	110	
Sb	121	115	2	51.07	1.25	ug/l	35627.25	1.95	50	102.1	90	110	
Ba	137	159	2	51.99	0.99	ug/l	14511.96	0.86	50	104.0	90	110	
Tl	205	209	2	10.10	0.96	ug/l	57978.65	0.70	10	101.0	90	110	
Pb	208	209	2	50.85	0.44	ug/l	378089.52	0.21	50	101.7	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19828	0.26	21135	93.8	60	120	
Sc	45	2	146738	0.37	130618	112.3	60	120	
Ge	74	1	58785	1.08	56992	103.1	60	120	
Ge	74	2	17577	0.43	16732	105.0	60	120	
Kr	83	2	33	26.46	23	142.9	-1000	1000	
In	115	2	95958	1.33	90201	106.4	60	120	
Tb	159	2	349829	0.17	337743	103.6	60	120	
Bi	209	2	277802	0.28	286349	97.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**1976CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:08:01-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.02	-22.43	ug/l	1.78	28.62	0.2	
B	11	6	2	3.04	32.38	ug/l	612.24	4.44	20	
Na	23	45	2	1.18	90.18	ug/l	39449.51	0.73	50	
Mg	24	45	2	1.16	10.77	ug/l	462.26	6.47	50	
Al	27	45	2	0.14	38.15	ug/l	87.78	4.78	10	
K	39	45	2	11.75	181.27	ug/l	24870.30	13.54	50	
Ca	44	45	2	-1.23	-204.15	ug/l	233.34	8.57	50	
Ti	47	45	2	-0.02	-218.61	ug/l	2.22	86.60	1	
V	51	45	2	0.06	11.23	ug/l	164.45	5.85	1	
Cr	52	45	2	-0.06	-36.23	ug/l	231.12	16.59	1	
Mn	55	45	2	0.08	32.96	ug/l	85.56	27.36	2	
Fe	56	45	2	0.79	18.43	ug/l	3828.30	4.49	30	
Co	59	45	2	-0.01	-17.34	ug/l	23.33	28.56	1	
Ni	60	45	2	0.23	10.08	ug/l	231.12	7.94	1	
Cu	63	45	2	0.12	10.59	ug/l	703.37	4.21	1	
Zn	66	45	2	-0.58	-30.91	ug/l	153.34	26.45	4	
As	75	74	2	0.02	42.73	ug/l	7.78	12.32	0.5	
Se	78	74	1	0.01	71.76	ug/l	6.78	17.24	0.5	
Sr	88	115	2	0.01	96.31	ug/l	17.78	47.19	1	
Mo	95	115	2	0.00	-89.23	ug/l	27.78	6.92	1	
Ag	107	115	2	-0.03	-15.04	ug/l	25.56	49.38	1	
Cd	111	115	2	-0.01	-58.50	ug/l	1.11	173.21	0.5	
Sn	118	115	2	0.03	76.09	ug/l	73.34	16.39	4	
Sb	121	115	2	-0.24	-18.05	ug/l	102.23	30.30	0.5	
Ba	137	159	2	0.05	24.84	ug/l	22.22	17.33	1	
Tl	205	209	2	0.00	-129.16	ug/l	75.56	10.19	0.2	
Pb	208	209	2	0.00	-565.55	ug/l	170.01	10.18	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20326	0.77	21135	96.2	60	120	
Sc	45	2	148196	0.71	130618	113.5	60	120	
Ge	74	1	59936	1.23	56992	105.2	60	120	
Ge	74	2	17854	0.44	16732	106.7	60	120	
Kr	83	2	33	43.58	23	142.9	-1000	1000	
In	115	2	98314	0.98	90201	109.0	60	120	
Tb	159	2	345273	0.69	337743	102.2	60	120	
Bi	209	2	288542	0.69	286349	100.8	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**198LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:11:22-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.36	13.18	ug/l	38.78	11.54	0.4	89.9	70	130	
B	11	6	2	44.73	1.11	ug/l	1587.88	0.95	40	111.8	70	130	
Na	23	45	2	102.26	0.93	ug/l	90316.59	0.39	100	102.3	70	130	
Mg	24	45	2	98.91	1.24	ug/l	24403.52	1.32	100	98.9	70	130	
Al	27	45	2	20.42	1.36	ug/l	1891.25	1.08	20	102.1	70	130	
K	39	45	2	117.37	13.01	ug/l	42147.23	5.91	100	117.4	70	130	
Ca	44	45	2	106.87	2.30	ug/l	1035.05	1.79	100	106.9	70	130	
Ti	47	45	2	2.34	5.22	ug/l	110.00	5.25	2	116.8	70	130	
V	51	45	2	1.94	1.43	ug/l	2901.47	1.20	2	97.1	70	130	
Cr	52	45	2	1.85	6.90	ug/l	3629.42	6.04	2	92.3	70	130	
Mn	55	45	2	4.16	1.49	ug/l	3710.55	1.71	4	104.0	70	130	
Fe	56	45	2	60.52	0.63	ug/l	82984.16	0.48	60	100.9	70	130	
Co	59	45	2	1.89	2.15	ug/l	5282.16	1.90	2	94.3	70	130	
Ni	60	45	2	1.87	7.48	ug/l	1487.89	7.38	2	93.7	70	130	
Cu	63	45	2	1.83	1.86	ug/l	4197.36	1.46	2	91.5	70	130	
Zn	66	45	2	7.85	9.33	ug/l	2031.31	7.88	8	98.1	70	130	
As	75	74	2	0.94	2.64	ug/l	136.11	3.94	1	94.4	70	130	
Se	78	74	1	4.79	1.43	ug/l	529.45	1.17	5	95.7	70	130	
Sr	88	115	2	2.16	5.17	ug/l	1762.38	5.30	2	108.2	70	130	
Mo	95	115	2	1.95	2.40	ug/l	1555.69	2.48	2	97.5	70	130	
Ag	107	115	2	0.96	2.84	ug/l	2488.06	2.59	1	96.2	70	130	
Cd	111	115	2	1.02	7.88	ug/l	306.68	7.84	1	101.7	70	130	
Sn	118	115	2	7.98	0.86	ug/l	5104.36	0.85	8	99.7	70	130	
Sb	121	115	2	0.72	11.86	ug/l	783.38	7.88	1	72.0	70	130	
Ba	137	159	2	1.99	12.98	ug/l	561.14	13.21	2	99.5	70	130	
Tl	205	209	2	0.37	4.23	ug/l	2306.93	4.13	0.4	93.5	70	130	
(Pb)	206	209	2	0.61	11.64	ug/l	1175.64	11.78	0.6	100.9	70	130	
(Pb)	207	209	2	0.59	6.00	ug/l	1073.41	5.19	0.6	98.3	70	130	
Pb	208	209	2	0.61	0.69	ug/l	4840.49	1.20	0.6	100.9	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20594	0.65	21135	97.4	60	120	
Sc	45	2	149749	0.23	130618	114.6	60	120	
Ge	74	1	60755	0.49	56992	106.6	60	120	
Ge	74	2	18047	1.43	16732	107.9	60	120	
Kr	83	2	47	7.15	23	200.0	-1000	1000	
In	115	2	98185	0.16	90201	108.9	60	120	
Tb	159	2	348984	0.57	337743	103.3	60	120	
Bi	209	2	288327	0.57	286349	100.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**MB 460-504407/1-A@20**
Data File Name	**1996CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:14:42-05:00**
Type	**6-CCB**
VialNumber	**4101**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.04	-196.48	ug/l	0.67	50.25	0.2	
B	11	6	2	1.36	775.77	ug/l	571.13	2.62	20	
Na	23	45	2	-1.18	-1893.44	ug/l	38682.09	0.73	50	
Mg	24	45	2	0.63	598.34	ug/l	336.68	12.87	50	
Al	27	45	2	0.43	244.29	ug/l	114.45	4.20	10	
K	39	45	2	11.47	3667.01	ug/l	25067.30	12.63	50	
Ca	44	45	2	-4.92	-1148.18	ug/l	208.34	9.99	50	
Ti	47	45	2	0.05	4408.73	ug/l	5.56	96.44	1	
V	51	45	2	0.08	182.93	ug/l	196.68	6.11	1	
Cr	52	45	2	-0.05	-357.07	ug/l	251.12	5.99	1	
Mn	55	45	2	0.01	3835.76	ug/l	21.11	63.80	2	
Fe	56	45	2	-0.65	-39.78	ug/l	1962.94	1.35	30	
Co	59	45	2	-0.02	-145.44	ug/l	16.67	20.01	1	
Ni	60	45	2	-0.05	-399.11	ug/l	24.45	28.38	1	
Cu	63	45	2	-0.10	-434.45	ug/l	254.46	18.54	1	
Zn	66	45	2	-0.68	-444.48	ug/l	132.23	26.24	4	
As	75	74	2	0.05	748.42	ug/l	12.22	20.83	0.5	
Se	78	74	1	0.00	-21522.15	ug/l	5.00	41.66	0.5	
Sr	88	115	2	0.00	10765.47	ug/l	10.00	57.75	1	
Mo	95	115	2	-0.03	-328.05	ug/l	10.00	33.30	1	
Ag	107	115	2	-0.04	-36.90	ug/l	4.44	43.40	1	
Cd	111	115	2	-0.01	0.00	ug/l	0.00	#DIV/0!	0.5	
Sn	118	115	2	0.00	-53304.37	ug/l	56.67	15.56	4	
Sb	121	115	2	-0.28	-64.79	ug/l	74.45	9.32	0.5	
Ba	137	159	2	-0.01	-7886.11	ug/l	5.55	124.93	1	
Tl	205	209	2	-0.01	-592.11	ug/l	33.33	43.59	0.2	
Pb	208	209	2	-0.01	-308.22	ug/l	87.78	14.37	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20229	0.91	21135	95.7	60	120	
Sc	45	2	149730	0.86	130618	114.6	60	120	
Ge	74	1	59422	0.43	56992	104.3	60	120	
Ge	74	2	17826	0.88	16732	106.5	60	120	
Kr	83	2	44	49.94	23	190.5	-1000	1000	
In	115	2	98131	0.84	90201	108.8	60	120	
Tb	159	2	350655	0.22	337743	103.8	60	120	
Bi	209	2	289106	0.73	286349	101.0	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Sample Report

Sample Name	**LCSSRM 460-504407/2-A@100**
Data File Name	**200SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:18:03-05:00**
Type	**Sample**
VialNumber	**4102**
Dilution	**100**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	40.94	4094.26	ug/l	900	
Pb	208	209	2	20.67	2066.76	ug/l	3600	
Tl	205	209	2	34.19	3419.00	ug/l	720	
Ba	137	159	2	70.12	7012.30	ug/l	3600	
Sb	121	115	2	13.16	1315.91	ug/l	3600	
Sn	118	115	2	21.26	2125.97	ug/l	3600	
Cd	111	115	2	41.63	4163.26	ug/l	3600	
Ag	107	115	2	8.81	881.21	ug/l	450	
Mo	95	115	2	30.28	3028.39	ug/l	3600	
Sr	88	115	2	24.18	2418.13	ug/l	3600	
As	75	74	2	32.86	3286.32	ug/l	3600	
Zn	66	45	2	39.34	3934.09	ug/l	900	
Cu	63	45	2	35.02	3502.03	ug/l	450	
Ni	60	45	2	28.56	2855.93	ug/l	900	
Co	59	45	2	17.14	1713.64	ug/l	1800	
Fe	56	45	2	3144.85	314485.46	ug/l	45000	
Mn	55	45	2	47.85	4785.30	ug/l	18000	
Cr	52	45	2	17.14	1714.16	ug/l	3600	
V	51	45	2	18.42	1842.04	ug/l	3600	
Ti	47	45	2	80.28	8027.98	ug/l	3600	
Ca	44	45	2	1074.45	107445.18	ug/l	360000	
K	39	45	2	446.91	44691.41	ug/l	360000	
Al	27	45	2	1608.25	160825.05	ug/l	36000	
Mg	24	45	2	472.64	47264.45	ug/l	360000	
Na	23	45	2	44.96	4495.93	ug/l	360000	
B	11	6	2	18.15	1815.13	ug/l	7200	
Be	9	6	2	12.14	1214.36	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	59225	0.45	56992	103.9	60	120	
Bi	209	2	283185	0.57	286349	98.9	60	120	
Tb	159	2	346542	0.24	337743	102.6	60	120	
In	115	2	96724	1.12	90201	107.2	60	120	
Kr	83	2	34	27.94	23	147.6	-1000	1000	
Ge	74	2	17855	0.35	16732	106.7	60	120	
Sc	45	2	148381	1.17	130618	113.6	60	120	
Li	6	2	19386	1.09	21135	91.7	60	120	

Sample Report

Sample Name	**PDS 460-152138-F-1-C@20**
Data File Name	**201SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:21:21-05:00**
Type	**Sample**
VialNumber	**4103**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	9.84	196.83	ug/l	900	
Pb	208	209	2	115.08	2301.62	ug/l	3600	
Tl	205	209	2	4.08	81.57	ug/l	720	
Ba	137	159	2	112.67	2253.41	ug/l	3600	
Sb	121	115	2	5.30	105.94	ug/l	3600	
Sn	118	115	2	14.90	297.94	ug/l	3600	
Cd	111	115	2	4.67	93.34	ug/l	3600	
Ag	107	115	2	4.47	89.49	ug/l	450	
Mo	95	115	2	9.62	192.46	ug/l	3600	
Sr	88	115	2	54.50	1090.02	ug/l	3600	
As	75	74	2	15.28	305.56	ug/l	3600	
Zn	66	45	2	108.07	2161.48	ug/l	900	
Cu	63	45	2	36.05	720.97	ug/l	450	
Ni	60	45	2	31.15	623.01	ug/l	900	
Co	59	45	2	15.98	319.64	ug/l	1800	
Fe	56	45	2	27997.57	559951.47	ug/l	45000	
Mn	55	45	2	819.03	16380.70	ug/l	18000	
Cr	52	45	2	66.24	1324.78	ug/l	3600	
V	51	45	2	65.87	1317.36	ug/l	3600	
Ti	47	45	2	931.80	18636.01	ug/l	3600	
Ca	44	45	2	8196.53	163930.63	ug/l	360000	
K	39	45	2	2710.29	54205.73	ug/l	360000	
Al	27	45	2	12121.15	242422.95	ug/l	36000	
Mg	24	45	2	14559.27	291185.38	ug/l	360000	
Na	23	45	2	530.25	10604.93	ug/l	360000	
B	11	6	2	117.96	2359.25	ug/l	7200	
Be	9	6	2	5.63	112.58	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56596	0.37	56992	99.3	60	120	
Bi	209	2	272818	0.40	286349	95.3	60	120	
Tb	159	2	346391	0.26	337743	102.6	60	120	
In	115	2	93575	1.01	90201	103.7	60	120	
Kr	83	2	51	22.91	23	219.1	-1000	1000	
Ge	74	2	17433	0.86	16732	104.2	60	120	
Sc	45	2	148168	1.74	130618	113.4	60	120	
Li	6	2	18301	0.56	21135	86.6	60	120	

Sample Report

Sample Name	**460-152138-F-1-E MS@20**
Data File Name	**202SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:24:39-05:00**
Type	**Sample**
VialNumber	**4104**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	10.07	201.36	ug/l	900	
Pb	208	209	2	85.90	1717.92	ug/l	3600	
Tl	205	209	2	4.18	83.53	ug/l	720	
Ba	137	159	2	92.66	1853.12	ug/l	3600	
Sb	121	115	2	3.16	63.24	ug/l	3600	
Sn	118	115	2	13.09	261.74	ug/l	3600	
Cd	111	115	2	4.94	98.86	ug/l	3600	
Ag	107	115	2	4.37	87.49	ug/l	450	
Mo	95	115	2	10.07	201.33	ug/l	3600	
Sr	88	115	2	20.03	400.59	ug/l	3600	
As	75	74	2	14.20	284.03	ug/l	3600	
Zn	66	45	2	101.83	2036.58	ug/l	900	
Cu	63	45	2	31.99	639.79	ug/l	450	
Ni	60	45	2	25.01	500.14	ug/l	900	
Co	59	45	2	13.97	279.47	ug/l	1800	
Fe	56	45	2	29666.38	593327.51	ug/l	45000	
Mn	55	45	2	1069.61	21392.19	ug/l	18000	
Cr	52	45	2	53.44	1068.89	ug/l	3600	
V	51	45	2	77.75	1555.06	ug/l	3600	
Ti	47	45	2	1123.16	22463.27	ug/l	3600	
Ca	44	45	2	1971.45	39429.05	ug/l	360000	
K	39	45	2	2898.67	57973.47	ug/l	360000	
Al	27	45	2	13535.51	270710.27	ug/l	36000	
Mg	24	45	2	3094.53	61890.64	ug/l	360000	
Na	23	45	2	537.33	10746.67	ug/l	360000	
B	11	6	2	112.89	2257.72	ug/l	7200	
Be	9	6	2	6.02	120.43	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56405	1.33	56992	99.0	60	120	
Bi	209	2	276282	0.59	286349	96.5	60	120	
Tb	159	2	346742	0.41	337743	102.7	60	120	
In	115	2	95299	0.10	90201	105.7	60	120	
Kr	83	2	60	29.39	23	257.2	-1000	1000	
Ge	74	2	17691	1.91	16732	105.7	60	120	
Sc	45	2	151118	0.45	130618	115.7	60	120	
Li	6	2	18450	1.40	21135	87.3	60	120	

Sample Report

Sample Name	**460-152138-F-1-D DU@20**
Data File Name	**203SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:27:55-05:00**
Type	**Sample**
VialNumber	**4105**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.26	5.21	ug/l	900	
Pb	208	209	2	61.29	1225.88	ug/l	3600	
Tl	205	209	2	0.19	3.74	ug/l	720	
Ba	137	159	2	96.30	1926.09	ug/l	3600	
Sb	121	115	2	0.18	3.50	ug/l	3600	
Sn	118	115	2	3.89	77.72	ug/l	3600	
Cd	111	115	2	0.16	3.19	ug/l	3600	
Ag	107	115	2	-0.01	-0.23	ug/l	450	
Mo	95	115	2	1.11	22.22	ug/l	3600	
Sr	88	115	2	19.36	387.14	ug/l	3600	
As	75	74	2	6.75	134.99	ug/l	3600	
Zn	66	45	2	64.54	1290.73	ug/l	900	
Cu	63	45	2	27.38	547.70	ug/l	450	
Ni	60	45	2	21.34	426.74	ug/l	900	
Co	59	45	2	11.31	226.18	ug/l	1800	
Fe	56	45	2	31313.00	626259.92	ug/l	45000	
Mn	55	45	2	838.58	16771.52	ug/l	18000	
Cr	52	45	2	48.60	971.99	ug/l	3600	
V	51	45	2	66.36	1327.25	ug/l	3600	
Ti	47	45	2	888.50	17769.94	ug/l	3600	
Ca	44	45	2	1888.54	37770.74	ug/l	360000	
K	39	45	2	2124.84	42496.86	ug/l	360000	
Al	27	45	2	11233.67	224673.34	ug/l	36000	
Mg	24	45	2	2481.52	49630.49	ug/l	360000	
Na	23	45	2	79.38	1587.67	ug/l	360000	
B	11	6	2	8.00	159.94	ug/l	7200	
Be	9	6	2	0.52	10.34	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56004	0.95	56992	98.3	60	120	
Bi	209	2	276897	0.57	286349	96.7	60	120	
Tb	159	2	347050	1.19	337743	102.8	60	120	
In	115	2	95071	0.85	90201	105.4	60	120	
Kr	83	2	57	23.53	23	242.9	-1000	1000	
Ge	74	2	17607	0.40	16732	105.2	60	120	
Sc	45	2	149617	0.99	130618	114.5	60	120	
Li	6	2	17999	0.47	21135	85.2	60	120	

Sample Report

Sample Name	**460-152138-F-1-C@20**
Data File Name	**204SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:31:15-05:00**
Type	**Sample**
VialNumber	**4106**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.18	3.65	ug/l	900	
Pb	208	209	2	94.82	1896.38	ug/l	3600	
Tl	205	209	2	0.16	3.26	ug/l	720	
Ba	137	159	2	89.12	1782.33	ug/l	3600	
Sb	121	115	2	0.46	9.29	ug/l	3600	
Sn	118	115	2	4.58	91.56	ug/l	3600	
Cd	111	115	2	0.09	1.80	ug/l	3600	
Ag	107	115	2	-0.03	-0.52	ug/l	450	
Mo	95	115	2	0.57	11.31	ug/l	3600	
Sr	88	115	2	37.99	759.77	ug/l	3600	
As	75	74	2	5.25	105.04	ug/l	3600	
Zn	66	45	2	56.54	1130.78	ug/l	900	
Cu	63	45	2	24.15	483.09	ug/l	450	
Ni	60	45	2	20.01	400.23	ug/l	900	
Co	59	45	2	10.06	201.13	ug/l	1800	
Fe	56	45	2	23831.93	476638.70	ug/l	45000	
Mn	55	45	2	665.61	13312.28	ug/l	18000	
Cr	52	45	2	50.16	1003.24	ug/l	3600	
V	51	45	2	48.89	977.85	ug/l	3600	
Ti	47	45	2	798.21	15964.19	ug/l	3600	
Ca	44	45	2	6657.15	133142.99	ug/l	360000	
K	39	45	2	1917.24	38344.76	ug/l	360000	
Al	27	45	2	9708.11	194162.22	ug/l	36000	
Mg	24	45	2	12195.98	243919.56	ug/l	360000	
Na	23	45	2	72.08	1441.59	ug/l	360000	
B	11	6	2	4.85	96.97	ug/l	7200	
Be	9	6	2	0.43	8.51	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56114	0.67	56992	98.5	60	120	
Bi	209	2	274961	0.71	286349	96.0	60	120	
Tb	159	2	347978	0.74	337743	103.0	60	120	
In	115	2	94478	1.26	90201	104.7	60	120	
Kr	83	2	42	29.89	23	181.0	-1000	1000	
Ge	74	2	17286	1.51	16732	103.3	60	120	
Sc	45	2	149005	1.76	130618	114.1	60	120	
Li	6	2	17913	1.60	21135	84.8	60	120	

Sample Report

Sample Name	**SD 460-152138-F-1-C@100**
Data File Name	**205SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:34:32-05:00**
Type	**Sample**
VialNumber	**4107**
Dilution	**100**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.03	2.60	ug/l	900	
Pb	208	209	2	18.98	1898.50	ug/l	3600	
Tl	205	209	2	0.04	4.30	ug/l	720	
Ba	137	159	2	18.12	1812.46	ug/l	3600	
Sb	121	115	2	-0.20	-19.90	ug/l	3600	
Sn	118	115	2	0.90	90.39	ug/l	3600	
Cd	111	115	2	0.02	1.92	ug/l	3600	
Ag	107	115	2	-0.04	-3.79	ug/l	450	
Mo	95	115	2	0.11	10.62	ug/l	3600	
Sr	88	115	2	7.47	746.74	ug/l	3600	
As	75	74	2	1.03	102.69	ug/l	3600	
Zn	66	45	2	11.02	1101.60	ug/l	900	
Cu	63	45	2	5.03	502.98	ug/l	450	
Ni	60	45	2	4.11	410.80	ug/l	900	
Co	59	45	2	2.09	208.99	ug/l	1800	
Fe	56	45	2	5000.32	500031.68	ug/l	45000	
Mn	55	45	2	137.74	13773.87	ug/l	18000	
Cr	52	45	2	10.19	1018.83	ug/l	3600	
V	51	45	2	10.15	1015.38	ug/l	3600	
Ti	47	45	2	163.92	16392.49	ug/l	3600	
Ca	44	45	2	1377.70	137769.76	ug/l	360000	
K	39	45	2	406.14	40614.25	ug/l	360000	
Al	27	45	2	2026.81	202680.55	ug/l	36000	
Mg	24	45	2	2492.10	249209.87	ug/l	360000	
Na	23	45	2	15.87	1587.08	ug/l	360000	
B	11	6	2	0.63	63.02	ug/l	7200	
Be	9	6	2	0.07	6.53	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58791	0.34	56992	103.2	60	120	
Bi	209	2	283337	0.94	286349	98.9	60	120	
Tb	159	2	351290	0.13	337743	104.0	60	120	
In	115	2	97623	1.08	90201	108.2	60	120	
Kr	83	2	40	14.43	23	171.4	-1000	1000	
Ge	74	2	17998	1.81	16732	107.6	60	120	
Sc	45	2	147600	1.23	130618	113.0	60	120	
Li	6	2	18629	1.68	21135	88.1	60	120	

Sample Report

Sample Name	**460-152133-E-3-A@20**
Data File Name	**206SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:37:50-05:00**
Type	**Sample**
VialNumber	**4108**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.68	13.69	ug/l	900	
Pb	208	209	2	136.56	2731.12	ug/l	3600	
Tl	205	209	2	0.24	4.73	ug/l	720	
Ba	137	159	2	91.66	1833.20	ug/l	3600	
Sb	121	115	2	1.79	35.83	ug/l	3600	
Sn	118	115	2	7.30	146.03	ug/l	3600	
Cd	111	115	2	0.68	13.68	ug/l	3600	
Ag	107	115	2	0.45	9.05	ug/l	450	
Mo	95	115	2	2.05	41.08	ug/l	3600	
Sr	88	115	2	40.86	817.15	ug/l	3600	
As	75	74	2	13.25	264.91	ug/l	3600	
Zn	66	45	2	1819.03	36380.58	ug/l	900	fail
Cu	63	45	2	37.64	752.73	ug/l	450	
Ni	60	45	2	15.85	316.98	ug/l	900	
Co	59	45	2	9.29	185.90	ug/l	1800	
Fe	56	45	2	29565.71	591314.19	ug/l	45000	
Mn	55	45	2	2046.05	40920.94	ug/l	18000	
Cr	52	45	2	16.21	324.11	ug/l	3600	
V	51	45	2	27.31	546.18	ug/l	3600	
Ti	47	45	2	323.19	6463.73	ug/l	3600	
Ca	44	45	2	7756.64	155132.74	ug/l	360000	
K	39	45	2	1236.31	24726.13	ug/l	360000	
Al	27	45	2	12398.66	247973.23	ug/l	36000	
Mg	24	45	2	3828.14	76562.87	ug/l	360000	
Na	23	45	2	121.04	2420.85	ug/l	360000	
B	11	6	2	6.41	128.21	ug/l	7200	
Be	9	6	2	1.05	21.02	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	55428	0.29	56992	97.3	60	120	
Bi	209	2	277784	0.33	286349	97.0	60	120	
Tb	159	2	349428	0.11	337743	103.5	60	120	
In	115	2	95141	1.85	90201	105.5	60	120	
Kr	83	2	70	9.52	23	300.0	-1000	1000	
Ge	74	2	17556	1.36	16732	104.9	60	120	
Sc	45	2	148040	1.55	130618	113.3	60	120	
Li	6	2	17746	2.63	21135	84.0	60	120	

Sample Report

Sample Name	**460-152135-F-1-A@20**
Data File Name	**207SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:41:07-05:00**
Type	**Sample**
VialNumber	**4109**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.42	8.42	ug/l	900	
Pb	208	209	2	28.21	564.17	ug/l	3600	
Tl	205	209	2	0.07	1.41	ug/l	720	
Ba	137	159	2	23.28	465.59	ug/l	3600	
Sb	121	115	2	-0.15	-2.92	ug/l	3600	
Sn	118	115	2	2.10	42.02	ug/l	3600	
Cd	111	115	2	0.04	0.79	ug/l	3600	
Ag	107	115	2	0.00	0.00	ug/l	450	
Mo	95	115	2	1.09	21.86	ug/l	3600	
Sr	88	115	2	6.27	125.49	ug/l	3600	
As	75	74	2	3.39	67.81	ug/l	3600	
Zn	66	45	2	40.28	805.56	ug/l	900	
Cu	63	45	2	7.10	141.92	ug/l	450	
Ni	60	45	2	5.52	110.34	ug/l	900	
Co	59	45	2	2.02	40.49	ug/l	1800	
Fe	56	45	2	9332.77	186655.37	ug/l	45000	
Mn	55	45	2	96.56	1931.23	ug/l	18000	
Cr	52	45	2	9.01	180.19	ug/l	3600	
V	51	45	2	17.17	343.30	ug/l	3600	
Ti	47	45	2	241.42	4828.32	ug/l	3600	
Ca	44	45	2	1318.53	26370.51	ug/l	360000	
K	39	45	2	262.95	5258.98	ug/l	360000	
Al	27	45	2	8506.40	170128.06	ug/l	36000	
Mg	24	45	2	891.47	17829.42	ug/l	360000	
Na	23	45	2	47.83	956.51	ug/l	360000	
B	11	6	2	2.99	59.70	ug/l	7200	
Be	9	6	2	0.18	3.66	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56836	0.60	56992	99.7	60	120	
Bi	209	2	277340	0.97	286349	96.9	60	120	
Tb	159	2	346789	1.01	337743	102.7	60	120	
In	115	2	94522	0.38	90201	104.8	60	120	
Kr	83	2	40	38.18	23	171.4	-1000	1000	
Ge	74	2	17537	0.46	16732	104.8	60	120	
Sc	45	2	145360	1.34	130618	111.3	60	120	
Li	6	2	17760	0.33	21135	84.0	60	120	

Sample Report

Sample Name	**460-152135-F-2-A@20**
Data File Name	**208SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:44:25-05:00**
Type	**Sample**
VialNumber	**4110**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.04	0.86	ug/l	900	
Pb	208	209	2	1.98	39.65	ug/l	3600	
Tl	205	209	2	0.03	0.52	ug/l	720	
Ba	137	159	2	5.14	102.80	ug/l	3600	
Sb	121	115	2	-0.29	-5.88	ug/l	3600	
Sn	118	115	2	1.25	24.96	ug/l	3600	
Cd	111	115	2	0.01	0.17	ug/l	3600	
Ag	107	115	2	-0.04	-0.77	ug/l	450	
Mo	95	115	2	1.78	35.69	ug/l	3600	
Sr	88	115	2	0.80	15.98	ug/l	3600	
As	75	74	2	1.03	20.60	ug/l	3600	
Zn	66	45	2	6.53	130.55	ug/l	900	
Cu	63	45	2	4.80	95.96	ug/l	450	
Ni	60	45	2	3.69	73.85	ug/l	900	
Co	59	45	2	1.39	27.85	ug/l	1800	
Fe	56	45	2	3505.35	70107.00	ug/l	45000	
Mn	55	45	2	134.24	2684.84	ug/l	18000	
Cr	52	45	2	10.84	216.79	ug/l	3600	
V	51	45	2	3.35	66.94	ug/l	3600	
Ti	47	45	2	56.73	1134.66	ug/l	3600	
Ca	44	45	2	77.63	1552.61	ug/l	360000	
K	39	45	2	149.14	2982.88	ug/l	360000	
Al	27	45	2	1481.00	29619.90	ug/l	36000	
Mg	24	45	2	275.47	5509.42	ug/l	360000	
Na	23	45	2	30.49	609.84	ug/l	360000	
B	11	6	2	1.41	28.12	ug/l	7200	
Be	9	6	2	0.06	1.11	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57283	1.69	56992	100.5	60	120	
Bi	209	2	281754	0.21	286349	98.4	60	120	
Tb	159	2	348747	0.63	337743	103.3	60	120	
In	115	2	96118	0.10	90201	106.6	60	120	
Kr	83	2	48	29.05	23	204.8	-1000	1000	
Ge	74	2	17546	1.45	16732	104.9	60	120	
Sc	45	2	145252	1.62	130618	111.2	60	120	
Li	6	2	17625	0.61	21135	83.4	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**2096CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:47:43-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	51.20	2.03	ug/l	4567.09	0.85	50	102.4	90	110	
B	11	6	2	107.40	2.85	ug/l	2816.40	0.21	100	107.4	90	110	
Na	23	45	2	5021.91	1.10	ug/l	2500993.07	1.11	5000	100.4	90	110	
Mg	24	45	2	4934.50	1.48	ug/l	1187183.81	1.30	5000	98.7	90	110	
Al	27	45	2	502.83	0.28	ug/l	43995.66	1.42	500	100.6	90	110	
K	39	45	2	5227.14	0.45	ug/l	849912.13	0.75	5000	104.5	90	110	
Ca	44	45	2	5080.98	0.93	ug/l	37151.27	0.95	5000	101.6	90	110	
Ti	47	45	2	51.52	1.63	ug/l	2319.65	2.71	50	103.0	90	110	
V	51	45	2	48.96	0.58	ug/l	69975.01	1.08	50	97.9	90	110	
Cr	52	45	2	48.19	0.82	ug/l	84767.96	1.69	50	96.4	90	110	
Mn	55	45	2	499.31	0.97	ug/l	435787.94	0.46	500	99.9	90	110	
Fe	56	45	2	4883.13	1.47	ug/l	6355511.22	0.48	5000	97.7	90	110	
Co	59	45	2	47.70	0.85	ug/l	129772.49	0.51	50	95.4	90	110	
Ni	60	45	2	46.82	1.62	ug/l	35138.87	1.36	50	93.6	90	110	
Cu	63	45	2	47.64	1.33	ug/l	95937.66	0.41	50	95.3	90	110	
Zn	66	45	2	46.40	2.30	ug/l	10427.10	1.07	50	92.8	90	110	
As	75	74	2	49.97	2.11	ug/l	6886.06	3.16	50	99.9	90	110	
Se	78	74	1	49.47	0.66	ug/l	5281.57	0.47	50	98.9	90	110	
Sr	88	115	2	53.07	0.59	ug/l	42420.22	0.89	50	106.1	90	110	
Mo	95	115	2	49.03	2.04	ug/l	37894.29	2.36	50	98.1	90	110	
Ag	107	115	2	47.90	0.60	ug/l	116878.67	0.18	50	95.8	90	110	
Cd	111	115	2	48.01	1.97	ug/l	14081.40	2.49	50	96.0	90	110	
Sn	118	115	2	49.08	1.70	ug/l	30695.17	1.54	50	98.2	90	110	
Sb	121	115	2	50.51	0.56	ug/l	35569.24	0.19	50	101.0	90	110	
Ba	137	159	2	52.40	1.44	ug/l	14586.49	1.39	50	104.8	90	110	
Tl	205	209	2	9.88	0.56	ug/l	57098.72	0.66	10	98.8	90	110	
Pb	208	209	2	50.45	0.36	ug/l	377575.44	0.39	50	100.9	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19071	2.55	21135	90.2	60	120	
Sc	45	2	147114	1.18	130618	112.6	60	120	
Ge	74	1	59175	1.01	56992	103.8	60	120	
Ge	74	2	17986	1.06	16732	107.5	60	120	
Kr	83	2	40	14.43	23	171.4	-1000	1000	
In	115	2	96867	0.52	90201	107.4	60	120	
Tb	159	2	348866	0.35	337743	103.3	60	120	
Bi	209	2	279651	0.15	286349	97.7	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**2106CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:51:01-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-30.56	ug/l	1.22	68.89	0.2	
B	11	6	2	-0.59	-179.06	ug/l	502.80	6.52	20	
Na	23	45	2	-0.21	-766.40	ug/l	38551.82	1.38	50	
Mg	24	45	2	1.07	18.88	ug/l	436.69	10.10	50	
Al	27	45	2	0.31	88.59	ug/l	101.67	23.24	10	
K	39	45	2	15.12	159.01	ug/l	25246.51	14.06	50	
Ca	44	45	2	-3.42	-38.53	ug/l	216.12	5.47	50	
Ti	47	45	2	-0.02	-298.85	ug/l	2.22	114.49	1	
V	51	45	2	0.08	41.43	ug/l	198.90	25.98	1	
Cr	52	45	2	-0.05	-7.04	ug/l	253.35	2.63	1	
Mn	55	45	2	0.09	31.43	ug/l	90.00	26.71	2	
Fe	56	45	2	0.82	10.33	ug/l	3848.86	1.99	30	
Co	59	45	2	-0.01	-36.18	ug/l	23.33	57.15	1	
Ni	60	45	2	0.28	16.80	ug/l	267.79	13.71	1	
Cu	63	45	2	0.13	25.15	ug/l	723.37	8.46	1	
Zn	66	45	2	-0.53	-9.47	ug/l	162.23	6.60	4	
As	75	74	2	0.02	218.40	ug/l	8.33	72.12	0.5	
Se	78	74	1	0.03	7.98	ug/l	8.44	2.32	0.5	
Sr	88	115	2	0.00	568.40	ug/l	10.00	57.75	1	
Mo	95	115	2	0.01	149.58	ug/l	37.78	30.98	1	
Ag	107	115	2	-0.03	-12.33	ug/l	25.55	41.94	1	
Cd	111	115	2	-0.01	-88.38	ug/l	2.22	86.60	0.5	
Sn	118	115	2	0.02	138.12	ug/l	71.11	26.66	4	
Sb	121	115	2	-0.26	-12.27	ug/l	87.78	26.67	0.5	
Ba	137	159	2	0.07	30.84	ug/l	26.67	21.65	1	
Tl	205	209	2	0.00	-144.24	ug/l	66.67	30.42	0.2	
Pb	208	209	2	0.00	-109.73	ug/l	148.89	16.95	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19302	1.92	21135	91.3	60	120	
Sc	45	2	147385	1.08	130618	112.8	60	120	
Ge	74	1	59657	0.73	56992	104.7	60	120	
Ge	74	2	17952	1.34	16732	107.3	60	120	
Kr	83	2	33	20.00	23	142.9	-1000	1000	
In	115	2	98916	0.55	90201	109.7	60	120	
Tb	159	2	350699	0.94	337743	103.8	60	120	
Bi	209	2	287440	0.60	286349	100.4	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**211LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:54:22-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.38	2.50	ug/l	38.55	3.49	0.4	94.8	70	130	
B	11	6	2	44.43	6.29	ug/l	1497.87	3.09	40	111.1	70	130	
Na	23	45	2	101.10	1.33	ug/l	88695.40	0.59	100	101.1	70	130	
Mg	24	45	2	97.87	1.22	ug/l	23869.23	2.27	100	97.9	70	130	
Al	27	45	2	20.75	2.20	ug/l	1898.48	1.06	20	103.8	70	130	
K	39	45	2	121.99	16.57	ug/l	42366.67	6.22	100	122.0	70	130	
Ca	44	45	2	109.18	1.38	ug/l	1040.05	2.36	100	109.2	70	130	
Ti	47	45	2	2.00	18.58	ug/l	93.89	18.99	2	100.2	70	130	
V	51	45	2	1.99	2.65	ug/l	2941.47	2.91	2	99.7	70	130	
Cr	52	45	2	1.89	4.43	ug/l	3662.76	3.13	2	94.4	70	130	
Mn	55	45	2	4.08	2.69	ug/l	3596.07	3.95	4	102.0	70	130	
Fe	56	45	2	60.81	0.52	ug/l	82395.79	0.90	60	101.4	70	130	
Co	59	45	2	1.91	3.68	ug/l	5296.62	4.37	2	95.7	70	130	
Ni	60	45	2	1.92	4.69	ug/l	1504.56	5.45	2	95.9	70	130	
Cu	63	45	2	1.94	2.57	ug/l	4372.97	3.04	2	97.1	70	130	
Zn	66	45	2	7.67	6.94	ug/l	1969.07	5.69	8	95.9	70	130	
As	75	74	2	0.91	14.72	ug/l	132.23	12.75	1	90.9	70	130	
Se	78	74	1	4.82	1.74	ug/l	529.01	2.19	5	96.4	70	130	
Sr	88	115	2	2.09	3.78	ug/l	1704.59	3.50	2	104.7	70	130	
Mo	95	115	2	1.96	5.20	ug/l	1560.13	4.93	2	97.8	70	130	
Ag	107	115	2	0.94	2.89	ug/l	2426.94	2.52	1	93.8	70	130	
Cd	111	115	2	0.94	6.40	ug/l	284.46	6.01	1	94.3	70	130	
Sn	118	115	2	8.03	1.19	ug/l	5134.38	0.90	8	100.4	70	130	
Sb	121	115	2	0.76	4.22	ug/l	812.27	3.03	1	76.2	70	130	
Ba	137	159	2	2.06	11.80	ug/l	582.25	11.17	2	103.0	70	130	
Tl	205	209	2	0.40	9.17	ug/l	2470.30	8.55	0.4	100.1	70	130	
(Pb)	206	209	2	0.59	5.83	ug/l	1148.97	5.11	0.6	98.3	70	130	
(Pb)	207	209	2	0.58	1.86	ug/l	1064.52	2.27	0.6	97.1	70	130	
Pb	208	209	2	0.60	1.99	ug/l	4822.72	1.53	0.6	100.1	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19518	1.26	21135	92.3	60	120	
Sc	45	2	148015	1.31	130618	113.3	60	120	
Ge	74	1	60287	0.64	56992	105.8	60	120	
Ge	74	2	18215	1.35	16732	108.9	60	120	
Kr	83	2	38	58.76	23	161.9	-1000	1000	
In	115	2	98126	0.29	90201	108.8	60	120	
Tb	159	2	350234	0.49	337743	103.7	60	120	
Bi	209	2	289290	0.57	286349	101.0	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152135-E-3-A@20**
Data File Name	**212SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T02:57:44-05:00**
Type	**Sample**
VialNumber	**4111**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.08	1.63	ug/l	900	
Pb	208	209	2	1.16	23.11	ug/l	3600	
Tl	205	209	2	0.01	0.28	ug/l	720	
Ba	137	159	2	2.59	51.77	ug/l	3600	
Sb	121	115	2	-0.23	-4.57	ug/l	3600	
Sn	118	115	2	1.33	26.51	ug/l	3600	
Cd	111	115	2	-0.01	-0.29	ug/l	3600	
Ag	107	115	2	-0.04	-0.82	ug/l	450	
Mo	95	115	2	0.13	2.66	ug/l	3600	
Sr	88	115	2	0.54	10.87	ug/l	3600	
As	75	74	2	1.06	21.14	ug/l	3600	
Zn	66	45	2	3.46	69.12	ug/l	900	
Cu	63	45	2	5.99	119.75	ug/l	450	
Ni	60	45	2	1.91	38.13	ug/l	900	
Co	59	45	2	1.18	23.63	ug/l	1800	
Fe	56	45	2	2587.74	51754.73	ug/l	45000	
Mn	55	45	2	74.80	1495.98	ug/l	18000	
Cr	52	45	2	2.52	50.45	ug/l	3600	
V	51	45	2	3.57	71.47	ug/l	3600	
Ti	47	45	2	28.33	566.70	ug/l	3600	
Ca	44	45	2	43.33	866.54	ug/l	360000	
K	39	45	2	94.63	1892.55	ug/l	360000	
Al	27	45	2	774.53	15490.55	ug/l	36000	
Mg	24	45	2	136.07	2721.49	ug/l	360000	
Na	23	45	2	20.58	411.69	ug/l	360000	
B	11	6	2	0.57	11.35	ug/l	7200	
Be	9	6	2	0.06	1.22	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56932	0.83	56992	99.9	60	120	
Bi	209	2	284905	0.42	286349	99.5	60	120	
Tb	159	2	346457	0.92	337743	102.6	60	120	
In	115	2	96238	1.34	90201	106.7	60	120	
Kr	83	2	41	12.39	23	176.2	-1000	1000	
Ge	74	2	17536	0.78	16732	104.8	60	120	
Sc	45	2	145259	1.04	130618	111.2	60	120	
Li	6	2	18482	0.70	21135	87.4	60	120	

Sample Report

Sample Name	**460-152135-E-4-A@20**
Data File Name	**213SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:01:03-05:00**
Type	**Sample**
VialNumber	**4112**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.01	0.23	ug/l	900	
Pb	208	209	2	1.54	30.81	ug/l	3600	
Tl	205	209	2	0.03	0.57	ug/l	720	
Ba	137	159	2	5.97	119.49	ug/l	3600	
Sb	121	115	2	-0.27	-5.44	ug/l	3600	
Sn	118	115	2	1.37	27.32	ug/l	3600	
Cd	111	115	2	-0.01	-0.22	ug/l	3600	
Ag	107	115	2	-0.04	-0.76	ug/l	450	
Mo	95	115	2	2.63	52.56	ug/l	3600	
Sr	88	115	2	1.02	20.31	ug/l	3600	
As	75	74	2	0.89	17.74	ug/l	3600	
Zn	66	45	2	4.26	85.22	ug/l	900	
Cu	63	45	2	7.26	145.22	ug/l	450	
Ni	60	45	2	3.77	75.35	ug/l	900	
Co	59	45	2	1.48	29.54	ug/l	1800	
Fe	56	45	2	3965.78	79315.66	ug/l	45000	
Mn	55	45	2	96.36	1927.23	ug/l	18000	
Cr	52	45	2	15.67	313.41	ug/l	3600	
V	51	45	2	4.05	81.02	ug/l	3600	
Ti	47	45	2	81.76	1635.23	ug/l	3600	
Ca	44	45	2	81.22	1624.49	ug/l	360000	
K	39	45	2	287.00	5740.10	ug/l	360000	
Al	27	45	2	1278.15	25562.94	ug/l	36000	
Mg	24	45	2	325.44	6508.72	ug/l	360000	
Na	23	45	2	35.75	715.01	ug/l	360000	
B	11	6	2	1.24	24.82	ug/l	7200	
Be	9	6	2	0.05	0.99	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57749	0.57	56992	101.3	60	120	
Bi	209	2	286383	0.43	286349	100.0	60	120	
Tb	159	2	348256	0.62	337743	103.1	60	120	
In	115	2	96772	1.46	90201	107.3	60	120	
Kr	83	2	33	30.00	23	142.8	-1000	1000	
Ge	74	2	17763	1.24	16732	106.2	60	120	
Sc	45	2	147076	1.82	130618	112.6	60	120	
Li	6	2	18414	1.46	21135	87.1	60	120	

Sample Report

Sample Name	**460-152135-E-5-A@20**
Data File Name	**214SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:04:22-05:00**
Type	**Sample**
VialNumber	**4201**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.41	8.14	ug/l	900	
Pb	208	209	2	79.09	1581.72	ug/l	3600	
Tl	205	209	2	0.05	1.08	ug/l	720	
Ba	137	159	2	16.15	323.01	ug/l	3600	
Sb	121	115	2	-0.09	-1.79	ug/l	3600	
Sn	118	115	2	1.77	35.32	ug/l	3600	
Cd	111	115	2	0.08	1.69	ug/l	3600	
Ag	107	115	2	0.00	0.01	ug/l	450	
Mo	95	115	2	0.51	10.15	ug/l	3600	
Sr	88	115	2	8.21	164.21	ug/l	3600	
As	75	74	2	2.64	52.70	ug/l	3600	
Zn	66	45	2	30.81	616.27	ug/l	900	
Cu	63	45	2	7.86	157.16	ug/l	450	
Ni	60	45	2	4.10	82.05	ug/l	900	
Co	59	45	2	1.34	26.81	ug/l	1800	
Fe	56	45	2	6628.83	132576.58	ug/l	45000	
Mn	55	45	2	90.18	1803.60	ug/l	18000	
Cr	52	45	2	6.89	137.81	ug/l	3600	
V	51	45	2	16.08	321.70	ug/l	3600	
Ti	47	45	2	160.13	3202.63	ug/l	3600	
Ca	44	45	2	1413.00	28260.02	ug/l	360000	
K	39	45	2	216.32	4326.38	ug/l	360000	
Al	27	45	2	5811.03	116220.57	ug/l	36000	
Mg	24	45	2	571.44	11428.78	ug/l	360000	
Na	23	45	2	616.28	12325.69	ug/l	360000	
B	11	6	2	2.06	41.11	ug/l	7200	
Be	9	6	2	0.12	2.32	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56421	1.30	56992	99.0	60	120	
Bi	209	2	280894	0.40	286349	98.1	60	120	
Tb	159	2	347756	0.86	337743	103.0	60	120	
In	115	2	96323	0.66	90201	106.8	60	120	
Kr	83	2	57	31.12	23	242.9	-1000	1000	
Ge	74	2	17440	0.89	16732	104.2	60	120	
Sc	45	2	146777	0.40	130618	112.4	60	120	
Li	6	2	18231	0.36	21135	86.3	60	120	

Sample Report

Sample Name	**460-152135-F-6-A@20**
Data File Name	**215SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:07:42-05:00**
Type	**Sample**
VialNumber	**4202**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.15	3.10	ug/l	900	
Pb	208	209	2	44.80	895.99	ug/l	3600	
Tl	205	209	2	0.05	0.93	ug/l	720	
Ba	137	159	2	16.97	339.47	ug/l	3600	
Sb	121	115	2	-0.07	-1.45	ug/l	3600	
Sn	118	115	2	1.79	35.72	ug/l	3600	
Cd	111	115	2	0.11	2.23	ug/l	3600	
Ag	107	115	2	-0.01	-0.24	ug/l	450	
Mo	95	115	2	0.49	9.84	ug/l	3600	
Sr	88	115	2	15.44	308.80	ug/l	3600	
As	75	74	2	2.54	50.87	ug/l	3600	
Zn	66	45	2	44.51	890.19	ug/l	900	
Cu	63	45	2	15.53	310.57	ug/l	450	
Ni	60	45	2	5.74	114.87	ug/l	900	
Co	59	45	2	3.02	60.34	ug/l	1800	
Fe	56	45	2	7632.09	152641.73	ug/l	45000	
Mn	55	45	2	116.93	2338.61	ug/l	18000	
Cr	52	45	2	8.10	162.05	ug/l	3600	
V	51	45	2	17.61	352.19	ug/l	3600	
Ti	47	45	2	210.40	4207.97	ug/l	3600	
Ca	44	45	2	4980.09	99601.81	ug/l	360000	
K	39	45	2	320.57	6411.36	ug/l	360000	
Al	27	45	2	4537.83	90756.62	ug/l	36000	
Mg	24	45	2	1265.94	25318.83	ug/l	360000	
Na	23	45	2	94.11	1882.28	ug/l	360000	
B	11	6	2	6.32	126.40	ug/l	7200	
Be	9	6	2	0.14	2.79	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56964	0.82	56992	100.0	60	120	
Bi	209	2	280924	0.53	286349	98.1	60	120	
Tb	159	2	350870	0.81	337743	103.9	60	120	
In	115	2	95960	0.95	90201	106.4	60	120	
Kr	83	2	48	24.50	23	204.8	-1000	1000	
Ge	74	2	17679	1.22	16732	105.7	60	120	
Sc	45	2	146126	2.10	130618	111.9	60	120	
Li	6	2	17823	0.84	21135	84.3	60	120	

Sample Report

Sample Name	**460-152135-E-7-A@20**
Data File Name	**216SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:10:59-05:00**
Type	**Sample**
VialNumber	**4203**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.08	1.52	ug/l	900	
Pb	208	209	2	6.27	125.42	ug/l	3600	
Tl	205	209	2	0.05	1.09	ug/l	720	
Ba	137	159	2	15.41	308.26	ug/l	3600	
Sb	121	115	2	-0.24	-4.80	ug/l	3600	
Sn	118	115	2	1.51	30.14	ug/l	3600	
Cd	111	115	2	0.01	0.24	ug/l	3600	
Ag	107	115	2	-0.03	-0.66	ug/l	450	
Mo	95	115	2	0.25	5.09	ug/l	3600	
Sr	88	115	2	6.44	128.75	ug/l	3600	
As	75	74	2	2.79	55.85	ug/l	3600	
Zn	66	45	2	14.52	290.38	ug/l	900	
Cu	63	45	2	7.50	149.94	ug/l	450	
Ni	60	45	2	5.38	107.66	ug/l	900	
Co	59	45	2	3.18	63.67	ug/l	1800	
Fe	56	45	2	7752.38	155047.61	ug/l	45000	
Mn	55	45	2	123.15	2463.07	ug/l	18000	
Cr	52	45	2	7.91	158.19	ug/l	3600	
V	51	45	2	11.58	231.67	ug/l	3600	
Ti	47	45	2	235.66	4713.25	ug/l	3600	
Ca	44	45	2	2011.65	40232.98	ug/l	360000	
K	39	45	2	459.69	9193.83	ug/l	360000	
Al	27	45	2	4223.28	84465.56	ug/l	36000	
Mg	24	45	2	1029.62	20592.41	ug/l	360000	
Na	23	45	2	42.60	851.99	ug/l	360000	
B	11	6	2	1.68	33.53	ug/l	7200	
Be	9	6	2	0.25	4.94	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56946	0.77	56992	99.9	60	120	
Bi	209	2	281532	0.24	286349	98.3	60	120	
Tb	159	2	349508	0.58	337743	103.5	60	120	
In	115	2	96499	1.86	90201	107.0	60	120	
Kr	83	2	34	20.14	23	147.6	-1000	1000	
Ge	74	2	17755	0.13	16732	106.1	60	120	
Sc	45	2	147528	0.77	130618	112.9	60	120	
Li	6	2	18012	1.59	21135	85.2	60	120	

Sample Report

Sample Name	**460-152135-E-8-A@20**
Data File Name	**217SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:14:17-05:00**
Type	**Sample**
VialNumber	**4204**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.06	1.14	ug/l	900	
Pb	208	209	2	7.44	148.79	ug/l	3600	
Tl	205	209	2	0.02	0.41	ug/l	720	
Ba	137	159	2	7.50	150.08	ug/l	3600	
Sb	121	115	2	-0.27	-5.41	ug/l	3600	
Sn	118	115	2	1.25	25.06	ug/l	3600	
Cd	111	115	2	0.02	0.39	ug/l	3600	
Ag	107	115	2	-0.03	-0.67	ug/l	450	
Mo	95	115	2	0.15	2.99	ug/l	3600	
Sr	88	115	2	3.12	62.34	ug/l	3600	
As	75	74	2	1.11	22.26	ug/l	3600	
Zn	66	45	2	7.49	149.78	ug/l	900	
Cu	63	45	2	3.63	72.52	ug/l	450	
Ni	60	45	2	2.60	51.94	ug/l	900	
Co	59	45	2	1.34	26.72	ug/l	1800	
Fe	56	45	2	3244.65	64893.05	ug/l	45000	
Mn	55	45	2	82.83	1656.60	ug/l	18000	
Cr	52	45	2	3.05	61.06	ug/l	3600	
V	51	45	2	5.64	112.84	ug/l	3600	
Ti	47	45	2	77.03	1540.63	ug/l	3600	
Ca	44	45	2	1037.74	20754.80	ug/l	360000	
K	39	45	2	165.81	3316.23	ug/l	360000	
Al	27	45	2	2204.53	44090.64	ug/l	36000	
Mg	24	45	2	489.51	9790.24	ug/l	360000	
Na	23	45	2	31.14	622.75	ug/l	360000	
B	11	6	2	0.24	4.77	ug/l	7200	
Be	9	6	2	0.07	1.44	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57844	0.80	56992	101.5	60	120	
Bi	209	2	283645	0.11	286349	99.1	60	120	
Tb	159	2	349871	0.02	337743	103.6	60	120	
In	115	2	96665	0.68	90201	107.2	60	120	
Kr	83	2	58	8.81	23	247.6	-1000	1000	
Ge	74	2	17427	0.35	16732	104.2	60	120	
Sc	45	2	146856	1.00	130618	112.4	60	120	
Li	6	2	18170	0.43	21135	86.0	60	120	

Sample Report

Sample Name	**460-152135-F-9-A@20**
Data File Name	**218SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:17:34-05:00**
Type	**Sample**
VialNumber	**4205**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.75	ug/l	900	
Pb	208	209	2	9.31	186.14	ug/l	3600	
Tl	205	209	2	0.04	0.86	ug/l	720	
Ba	137	159	2	10.18	203.69	ug/l	3600	
Sb	121	115	2	-0.26	-5.21	ug/l	3600	
Sn	118	115	2	1.36	27.22	ug/l	3600	
Cd	111	115	2	0.03	0.56	ug/l	3600	
Ag	107	115	2	-0.03	-0.70	ug/l	450	
Mo	95	115	2	0.42	8.35	ug/l	3600	
Sr	88	115	2	3.82	76.47	ug/l	3600	
As	75	74	2	1.74	34.79	ug/l	3600	
Zn	66	45	2	12.39	247.83	ug/l	900	
Cu	63	45	2	4.31	86.17	ug/l	450	
Ni	60	45	2	3.65	72.92	ug/l	900	
Co	59	45	2	1.66	33.13	ug/l	1800	
Fe	56	45	2	5936.14	118722.78	ug/l	45000	
Mn	55	45	2	85.01	1700.21	ug/l	18000	
Cr	52	45	2	6.01	120.16	ug/l	3600	
V	51	45	2	9.58	191.57	ug/l	3600	
Ti	47	45	2	149.04	2980.77	ug/l	3600	
Ca	44	45	2	881.46	17629.26	ug/l	360000	
K	39	45	2	227.89	4557.78	ug/l	360000	
Al	27	45	2	4748.95	94979.01	ug/l	36000	
Mg	24	45	2	575.57	11511.45	ug/l	360000	
Na	23	45	2	43.63	872.64	ug/l	360000	
B	11	6	2	-0.45	-8.94	ug/l	7200	
Be	9	6	2	0.13	2.57	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56700	1.04	56992	99.5	60	120	
Bi	209	2	279584	0.30	286349	97.6	60	120	
Tb	159	2	347001	0.33	337743	102.7	60	120	
In	115	2	95189	0.34	90201	105.5	60	120	
Kr	83	2	49	27.56	23	209.5	-1000	1000	
Ge	74	2	17901	0.91	16732	107.0	60	120	
Sc	45	2	144424	1.02	130618	110.6	60	120	
Li	6	2	18037	1.12	21135	85.3	60	120	

Sample Report

Sample Name	**460-152135-E-10-A@20**
Data File Name	**219SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:20:51-05:00**
Type	**Sample**
VialNumber	**4206**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.47	ug/l	900	
Pb	208	209	2	0.90	17.98	ug/l	3600	
Tl	205	209	2	0.01	0.14	ug/l	720	
Ba	137	159	2	2.02	40.49	ug/l	3600	
Sb	121	115	2	-0.31	-6.20	ug/l	3600	
Sn	118	115	2	1.20	23.92	ug/l	3600	
Cd	111	115	2	0.00	0.01	ug/l	3600	
Ag	107	115	2	-0.04	-0.82	ug/l	450	
Mo	95	115	2	0.05	1.01	ug/l	3600	
Sr	88	115	2	0.34	6.77	ug/l	3600	
As	75	74	2	0.57	11.35	ug/l	3600	
Zn	66	45	2	2.43	48.65	ug/l	900	
Cu	63	45	2	1.75	34.94	ug/l	450	
Ni	60	45	2	1.09	21.90	ug/l	900	
Co	59	45	2	0.70	13.95	ug/l	1800	
Fe	56	45	2	1817.68	36353.52	ug/l	45000	
Mn	55	45	2	42.42	848.47	ug/l	18000	
Cr	52	45	2	1.35	26.98	ug/l	3600	
V	51	45	2	2.17	43.33	ug/l	3600	
Ti	47	45	2	29.59	591.79	ug/l	3600	
Ca	44	45	2	34.09	681.87	ug/l	360000	
K	39	45	2	105.86	2117.13	ug/l	360000	
Al	27	45	2	647.63	12952.57	ug/l	36000	
Mg	24	45	2	181.36	3627.29	ug/l	360000	
Na	23	45	2	19.37	387.38	ug/l	360000	
B	11	6	2	1.48	29.53	ug/l	7200	
Be	9	6	2	0.03	0.53	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57503	0.89	56992	100.9	60	120	
Bi	209	2	284413	0.08	286349	99.3	60	120	
Tb	159	2	347002	0.96	337743	102.7	60	120	
In	115	2	95886	0.39	90201	106.3	60	120	
Kr	83	2	40	54.65	23	171.4	-1000	1000	
Ge	74	2	17422	0.97	16732	104.1	60	120	
Sc	45	2	145347	1.36	130618	111.3	60	120	
Li	6	2	18087	1.55	21135	85.6	60	120	

Sample Report

Sample Name	**460-152135-E-11-A@20**
Data File Name	**220SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:24:09-05:00**
Type	**Sample**
VialNumber	**4207**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.02	0.36	ug/l	900	
Pb	208	209	2	1.57	31.47	ug/l	3600	
Tl	205	209	2	0.01	0.27	ug/l	720	
Ba	137	159	2	3.54	70.80	ug/l	3600	
Sb	121	115	2	-0.26	-5.28	ug/l	3600	
Sn	118	115	2	1.21	24.24	ug/l	3600	
Cd	111	115	2	0.01	0.17	ug/l	3600	
Ag	107	115	2	-0.04	-0.81	ug/l	450	
Mo	95	115	2	1.20	23.99	ug/l	3600	
Sr	88	115	2	0.70	13.92	ug/l	3600	
As	75	74	2	0.96	19.16	ug/l	3600	
Zn	66	45	2	4.04	80.72	ug/l	900	
Cu	63	45	2	3.71	74.19	ug/l	450	
Ni	60	45	2	2.74	54.80	ug/l	900	
Co	59	45	2	1.46	29.26	ug/l	1800	
Fe	56	45	2	3664.78	73295.53	ug/l	45000	
Mn	55	45	2	87.62	1752.47	ug/l	18000	
Cr	52	45	2	7.19	143.71	ug/l	3600	
V	51	45	2	3.18	63.53	ug/l	3600	
Ti	47	45	2	35.37	707.46	ug/l	3600	
Ca	44	45	2	72.02	1440.32	ug/l	360000	
K	39	45	2	150.88	3017.56	ug/l	360000	
Al	27	45	2	1202.64	24052.81	ug/l	36000	
Mg	24	45	2	377.51	7550.11	ug/l	360000	
Na	23	45	2	31.96	639.28	ug/l	360000	
B	11	6	2	-0.75	-15.07	ug/l	7200	
Be	9	6	2	0.06	1.12	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57500	0.37	56992	100.9	60	120	
Bi	209	2	281718	1.09	286349	98.4	60	120	
Tb	159	2	347693	0.72	337743	102.9	60	120	
In	115	2	96177	0.81	90201	106.6	60	120	
Kr	83	2	27	33.06	23	114.3	-1000	1000	
Ge	74	2	17661	1.50	16732	105.6	60	120	
Sc	45	2	144946	1.32	130618	111.0	60	120	
Li	6	2	18288	1.27	21135	86.5	60	120	

Sample Report

Sample Name	**460-152135-E-12-A@20**
Data File Name	**221SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:27:27-05:00**
Type	**Sample**
VialNumber	**4208**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.30	6.09	ug/l	900	
Pb	208	209	2	13.01	260.21	ug/l	3600	
Tl	205	209	2	0.05	1.06	ug/l	720	
Ba	137	159	2	13.52	270.41	ug/l	3600	
Sb	121	115	2	-0.18	-3.64	ug/l	3600	
Sn	118	115	2	1.51	30.27	ug/l	3600	
Cd	111	115	2	0.01	0.17	ug/l	3600	
Ag	107	115	2	-0.02	-0.46	ug/l	450	
Mo	95	115	2	0.42	8.44	ug/l	3600	
Sr	88	115	2	3.61	72.24	ug/l	3600	
As	75	74	2	2.66	53.19	ug/l	3600	
Zn	66	45	2	18.11	362.14	ug/l	900	
Cu	63	45	2	6.51	130.19	ug/l	450	
Ni	60	45	2	5.05	101.09	ug/l	900	
Co	59	45	2	2.77	55.47	ug/l	1800	
Fe	56	45	2	8555.48	171109.68	ug/l	45000	
Mn	55	45	2	95.72	1914.43	ug/l	18000	
Cr	52	45	2	8.68	173.55	ug/l	3600	
V	51	45	2	13.61	272.28	ug/l	3600	
Ti	47	45	2	227.44	4548.80	ug/l	3600	
Ca	44	45	2	474.63	9492.64	ug/l	360000	
K	39	45	2	294.12	5882.49	ug/l	360000	
Al	27	45	2	7174.39	143487.73	ug/l	36000	
Mg	24	45	2	807.44	16148.88	ug/l	360000	
Na	23	45	2	37.35	747.05	ug/l	360000	
B	11	6	2	0.81	16.23	ug/l	7200	
Be	9	6	2	0.17	3.31	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56939	0.68	56992	99.9	60	120	
Bi	209	2	280144	1.00	286349	97.8	60	120	
Tb	159	2	348904	0.55	337743	103.3	60	120	
In	115	2	95480	0.94	90201	105.9	60	120	
Kr	83	2	36	19.51	23	152.4	-1000	1000	
Ge	74	2	17528	1.67	16732	104.8	60	120	
Sc	45	2	145440	1.16	130618	111.3	60	120	
Li	6	2	18337	0.77	21135	86.8	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**2226CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:30:46-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	50.89	1.49	ug/l	4601.55	0.86	50	101.8	90	110	
B	11	6	2	101.19	6.46	ug/l	2720.27	5.27	100	101.2	90	110	
Na	23	45	2	4938.66	1.05	ug/l	2472435.00	1.18	5000	98.8	90	110	
Mg	24	45	2	4810.88	0.46	ug/l	1163276.16	1.22	5000	96.2	90	110	
Al	27	45	2	495.64	0.14	ug/l	43581.13	0.96	500	99.1	90	110	
K	39	45	2	5177.28	0.44	ug/l	846207.83	0.57	5000	103.5	90	110	
Ca	44	45	2	5105.55	0.34	ug/l	37517.05	1.17	5000	102.1	90	110	
Ti	47	45	2	51.58	0.70	ug/l	2333.54	0.82	50	103.2	90	110	
V	51	45	2	48.26	0.55	ug/l	69325.38	0.70	50	96.5	90	110	
Cr	52	45	2	47.82	0.88	ug/l	84520.80	0.61	50	95.6	90	110	
Mn	55	45	2	493.66	0.68	ug/l	433013.97	1.06	500	98.7	90	110	
Fe	56	45	2	4813.44	1.58	ug/l	6296535.53	1.75	5000	96.3	90	110	
Co	59	45	2	46.98	1.26	ug/l	128446.76	0.89	50	94.0	90	110	
Ni	60	45	2	46.66	1.67	ug/l	35191.16	0.83	50	93.3	90	110	
Cu	63	45	2	46.82	0.94	ug/l	94767.81	1.52	50	93.6	90	110	
Zn	66	45	2	46.05	2.03	ug/l	10403.77	2.45	50	92.1	90	110	
As	75	74	2	50.96	1.46	ug/l	6971.09	1.66	50	101.9	90	110	
Se	78	74	1	48.03	1.01	ug/l	5125.63	0.75	50	96.1	90	110	
Sr	88	115	2	52.67	0.46	ug/l	42197.24	0.53	50	105.3	90	110	
Mo	95	115	2	47.79	1.50	ug/l	37014.31	1.55	50	95.6	90	110	
Ag	107	115	2	47.09	0.34	ug/l	115178.13	0.33	50	94.2	90	110	
Cd	111	115	2	47.30	2.41	ug/l	13905.67	2.32	50	94.6	90	110	
Sn	118	115	2	49.10	1.28	ug/l	30778.63	1.23	50	98.2	90	110	
Sb	121	115	2	51.20	1.58	ug/l	36136.15	1.66	50	102.4	90	110	
Ba	137	159	2	52.83	2.55	ug/l	14602.00	3.25	50	105.7	90	110	
Tl	205	209	2	9.99	0.85	ug/l	57656.48	0.63	10	99.9	90	110	
Pb	208	209	2	50.81	0.97	ug/l	379933.15	0.55	50	101.6	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19329	1.29	21135	91.5	60	120	
Sc	45	2	147843	0.84	130618	113.2	60	120	
Ge	74	1	59146	0.69	56992	103.8	60	120	
Ge	74	2	17857	0.61	16732	106.7	60	120	
Kr	83	2	42	18.24	23	181.0	-1000	1000	
In	115	2	97088	0.09	90201	107.6	60	120	
Tb	159	2	346358	0.77	337743	102.6	60	120	
Bi	209	2	279409	0.45	286349	97.6	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**2236CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:34:02-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-28.88	ug/l	1.55	44.59	0.2	
B	11	6	2	-0.02	-4588.85	ug/l	527.24	2.73	20	
Na	23	45	2	-2.07	-20.76	ug/l	37553.94	0.37	50	
Mg	24	45	2	1.07	13.64	ug/l	435.58	8.04	50	
Al	27	45	2	0.18	43.82	ug/l	90.00	6.67	10	
K	39	45	2	13.20	140.77	ug/l	24905.79	11.50	50	
Ca	44	45	2	-3.58	-42.16	ug/l	214.45	5.83	50	
Ti	47	45	2	-0.04	-49.56	ug/l	1.11	86.60	1	
V	51	45	2	0.07	19.72	ug/l	181.12	10.78	1	
Cr	52	45	2	-0.06	-32.84	ug/l	226.68	14.48	1	
Mn	55	45	2	0.07	39.72	ug/l	74.44	31.77	2	
Fe	56	45	2	0.73	14.30	ug/l	3722.72	2.87	30	
Co	59	45	2	-0.01	-32.38	ug/l	22.22	56.80	1	
Ni	60	45	2	0.24	9.49	ug/l	234.45	6.41	1	
Cu	63	45	2	0.14	28.96	ug/l	737.82	11.07	1	
Zn	66	45	2	-0.54	-26.07	ug/l	160.01	19.09	4	
As	75	74	2	0.03	136.01	ug/l	10.00	60.12	0.5	
Se	78	74	1	0.01	84.19	ug/l	6.22	15.40	0.5	
Sr	88	115	2	0.01	150.72	ug/l	13.33	49.99	1	
Mo	95	115	2	0.00	-345.40	ug/l	26.66	43.31	1	
Ag	107	115	2	-0.04	-10.50	ug/l	15.56	65.47	1	
Cd	111	115	2	-0.01	-89.98	ug/l	2.22	86.60	0.5	
Sn	118	115	2	0.01	472.04	ug/l	61.11	31.02	4	
Sb	121	115	2	-0.27	-16.21	ug/l	78.89	40.16	0.5	
Ba	137	159	2	0.10	18.20	ug/l	34.44	14.78	1	
Tl	205	209	2	0.00	-135.74	ug/l	71.11	19.52	0.2	
Pb	208	209	2	0.00	1976.90	ug/l	174.45	10.87	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19768	0.79	21135	93.5	60	120	
Sc	45	2	147053	0.93	130618	112.6	60	120	
Ge	74	1	58932	1.68	56992	103.4	60	120	
Ge	74	2	17802	1.21	16732	106.4	60	120	
Kr	83	2	31	26.97	23	133.3	-1000	1000	
In	115	2	98432	0.73	90201	109.1	60	120	
Tb	159	2	348742	0.73	337743	103.3	60	120	
Bi	209	2	289077	0.52	286349	101.0	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**224LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:37:23-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.35	2.19	ug/l	36.55	1.89	0.4	86.6	70	130	
B	11	6	2	40.35	3.64	ug/l	1448.98	2.36	40	100.9	70	130	
Na	23	45	2	97.94	0.37	ug/l	86831.60	1.03	100	97.9	70	130	
Mg	24	45	2	98.04	1.63	ug/l	23828.11	2.57	100	98.0	70	130	
Al	27	45	2	20.52	2.46	ug/l	1871.80	3.48	20	102.6	70	130	
K	39	45	2	120.94	18.29	ug/l	42056.05	7.43	100	120.9	70	130	
Ca	44	45	2	110.65	5.71	ug/l	1046.72	3.60	100	110.6	70	130	
Ti	47	45	2	1.58	7.75	ug/l	74.45	6.46	2	79.2	70	130	
V	51	45	2	2.06	0.99	ug/l	3028.17	2.04	2	103.0	70	130	
Cr	52	45	2	1.79	2.76	ug/l	3470.49	1.50	2	89.3	70	130	
Mn	55	45	2	4.09	0.86	ug/l	3589.42	1.91	4	102.1	70	130	
Fe	56	45	2	61.05	0.58	ug/l	82415.12	0.70	60	101.7	70	130	
Co	59	45	2	1.96	1.66	ug/l	5414.44	2.06	2	98.2	70	130	
Ni	60	45	2	1.91	1.43	ug/l	1490.12	2.32	2	95.3	70	130	
Cu	63	45	2	1.93	2.85	ug/l	4328.51	3.52	2	96.3	70	130	
Zn	66	45	2	7.41	4.26	ug/l	1904.62	2.63	8	92.7	70	130	
As	75	74	2	1.11	22.80	ug/l	160.56	22.03	1	111.0	70	130	
Se	78	74	1	4.92	1.11	ug/l	543.68	2.18	5	98.4	70	130	
Sr	88	115	2	2.08	3.83	ug/l	1702.37	2.97	2	104.2	70	130	
Mo	95	115	2	1.80	8.45	ug/l	1441.22	7.51	2	89.9	70	130	
Ag	107	115	2	0.94	2.60	ug/l	2446.95	3.44	1	94.1	70	130	
Cd	111	115	2	0.95	6.02	ug/l	286.68	6.47	1	94.6	70	130	
Sn	118	115	2	8.02	1.65	ug/l	5151.07	0.83	8	100.3	70	130	
Sb	121	115	2	0.66	7.93	ug/l	746.71	5.15	1	66.5	70	130	6-CCVLL Main Failed
Ba	137	159	2	2.30	13.34	ug/l	648.93	13.06	2	114.9	70	130	
Tl	205	209	2	0.40	4.03	ug/l	2501.41	4.23	0.4	100.7	70	130	
(Pb)	206	209	2	0.61	1.35	ug/l	1195.65	0.90	0.6	101.7	70	130	
(Pb)	207	209	2	0.60	1.69	ug/l	1106.75	2.11	0.6	100.5	70	130	
Pb	208	209	2	0.60	2.43	ug/l	4807.16	1.69	0.6	99.2	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20076	0.07	21135	95.0	60	120	
Sc	45	2	147492	1.12	130618	112.9	60	120	
Ge	74	1	60685	1.08	56992	106.5	60	120	
Ge	74	2	18222	0.09	16732	108.9	60	120	
Kr	83	2	33	36.05	23	142.9	-1000	1000	
In	115	2	98534	0.97	90201	109.2	60	120	
Tb	159	2	350208	0.62	337743	103.7	60	120	
Bi	209	2	291054	0.64	286349	101.6	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Sample Report

Sample Name	**460-152135-E-13-A@20**
Data File Name	**225SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:40:45-05:00**
Type	**Sample**
VialNumber	**4209**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.25	5.08	ug/l	900	
Pb	208	209	2	56.52	1130.48	ug/l	3600	
Tl	205	209	2	0.05	1.01	ug/l	720	
Ba	137	159	2	31.00	619.90	ug/l	3600	
Sb	121	115	2	-0.07	-1.32	ug/l	3600	
Sn	118	115	2	1.89	37.77	ug/l	3600	
Cd	111	115	2	0.17	3.46	ug/l	3600	
Ag	107	115	2	-0.01	-0.15	ug/l	450	
Mo	95	115	2	0.50	9.93	ug/l	3600	
Sr	88	115	2	43.59	871.75	ug/l	3600	
As	75	74	2	2.79	55.88	ug/l	3600	
Zn	66	45	2	57.26	1145.11	ug/l	900	
Cu	63	45	2	13.54	270.75	ug/l	450	
Ni	60	45	2	6.22	124.46	ug/l	900	
Co	59	45	2	2.17	43.38	ug/l	1800	
Fe	56	45	2	7947.59	158951.88	ug/l	45000	
Mn	55	45	2	131.99	2639.70	ug/l	18000	
Cr	52	45	2	9.89	197.89	ug/l	3600	
V	51	45	2	12.86	257.29	ug/l	3600	
Ti	47	45	2	212.28	4245.58	ug/l	3600	
Ca	44	45	2	10810.97	216219.46	ug/l	360000	
K	39	45	2	444.27	8885.43	ug/l	360000	
Al	27	45	2	5662.55	113250.93	ug/l	36000	
Mg	24	45	2	1637.32	32746.42	ug/l	360000	
Na	23	45	2	59.59	1191.82	ug/l	360000	
B	11	6	2	3.76	75.13	ug/l	7200	
Be	9	6	2	0.16	3.16	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57111	0.65	56992	100.2	60	120	
Bi	209	2	279718	0.26	286349	97.7	60	120	
Tb	159	2	350624	0.96	337743	103.8	60	120	
In	115	2	95815	2.39	90201	106.2	60	120	
Kr	83	2	39	21.57	23	166.7	-1000	1000	
Ge	74	2	17833	1.74	16732	106.6	60	120	
Sc	45	2	146869	1.77	130618	112.4	60	120	
Li	6	2	18329	1.15	21135	86.7	60	120	

Sample Report

Sample Name	**460-152135-F-14-A@20**
Data File Name	**226SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:44:05-05:00**
Type	**Sample**
VialNumber	**4210**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.07	1.42	ug/l	900	
Pb	208	209	2	46.64	932.73	ug/l	3600	
Tl	205	209	2	0.02	0.33	ug/l	720	
Ba	137	159	2	26.48	529.65	ug/l	3600	
Sb	121	115	2	0.92	18.33	ug/l	3600	
Sn	118	115	2	3.91	78.26	ug/l	3600	
Cd	111	115	2	0.12	2.35	ug/l	3600	
Ag	107	115	2	-0.02	-0.34	ug/l	450	
Mo	95	115	2	1.57	31.41	ug/l	3600	
Sr	88	115	2	8.88	177.54	ug/l	3600	
As	75	74	2	2.04	40.72	ug/l	3600	
Zn	66	45	2	137.85	2756.96	ug/l	900	
Cu	63	45	2	34.50	690.03	ug/l	450	
Ni	60	45	2	6.55	130.94	ug/l	900	
Co	59	45	2	3.01	60.21	ug/l	1800	
Fe	56	45	2	11037.09	220741.80	ug/l	45000	
Mn	55	45	2	89.68	1793.58	ug/l	18000	
Cr	52	45	2	25.44	508.89	ug/l	3600	
V	51	45	2	13.85	276.98	ug/l	3600	
Ti	47	45	2	157.63	3152.64	ug/l	3600	
Ca	44	45	2	3273.61	65472.22	ug/l	360000	
K	39	45	2	227.95	4558.92	ug/l	360000	
Al	27	45	2	2199.34	43986.78	ug/l	36000	
Mg	24	45	2	1484.12	29682.36	ug/l	360000	
Na	23	45	2	112.05	2240.94	ug/l	360000	
B	11	6	2	2.72	54.45	ug/l	7200	
Be	9	6	2	0.06	1.25	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58365	0.49	56992	102.4	60	120	
Bi	209	2	283478	0.58	286349	99.0	60	120	
Tb	159	2	351028	0.65	337743	103.9	60	120	
In	115	2	97238	0.65	90201	107.8	60	120	
Kr	83	2	50	26.67	23	214.3	-1000	1000	
Ge	74	2	17993	1.02	16732	107.5	60	120	
Sc	45	2	148328	0.56	130618	113.6	60	120	
Li	6	2	18230	1.08	21135	86.3	60	120	

Sample Report

Sample Name	**460-152135-E-15-A@20**
Data File Name	**227SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:47:24-05:00**
Type	**Sample**
VialNumber	**4211**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.04	0.82	ug/l	900	
Pb	208	209	2	1.40	28.08	ug/l	3600	
Tl	205	209	2	0.01	0.18	ug/l	720	
Ba	137	159	2	3.07	61.36	ug/l	3600	
Sb	121	115	2	-0.27	-5.45	ug/l	3600	
Sn	118	115	2	1.29	25.79	ug/l	3600	
Cd	111	115	2	-0.01	-0.29	ug/l	3600	
Ag	107	115	2	-0.04	-0.73	ug/l	450	
Mo	95	115	2	0.21	4.13	ug/l	3600	
Sr	88	115	2	0.74	14.71	ug/l	3600	
As	75	74	2	0.52	10.36	ug/l	3600	
Zn	66	45	2	5.07	101.37	ug/l	900	
Cu	63	45	2	7.99	159.89	ug/l	450	
Ni	60	45	2	0.96	19.13	ug/l	900	
Co	59	45	2	0.40	7.90	ug/l	1800	
Fe	56	45	2	1590.84	31816.80	ug/l	45000	
Mn	55	45	2	10.81	216.18	ug/l	18000	
Cr	52	45	2	2.29	45.81	ug/l	3600	
V	51	45	2	3.04	60.76	ug/l	3600	
Ti	47	45	2	34.82	696.40	ug/l	3600	
Ca	44	45	2	94.10	1882.04	ug/l	360000	
K	39	45	2	135.58	2711.62	ug/l	360000	
Al	27	45	2	919.33	18386.59	ug/l	36000	
Mg	24	45	2	249.34	4986.75	ug/l	360000	
Na	23	45	2	20.33	406.52	ug/l	360000	
B	11	6	2	0.42	8.43	ug/l	7200	
Be	9	6	2	0.03	0.68	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	58601	1.38	56992	102.8	60	120	
Bi	209	2	286740	0.70	286349	100.1	60	120	
Tb	159	2	349837	0.93	337743	103.6	60	120	
In	115	2	98013	1.41	90201	108.7	60	120	
Kr	83	2	49	30.75	23	209.5	-1000	1000	
Ge	74	2	17793	0.88	16732	106.3	60	120	
Sc	45	2	147691	0.88	130618	113.1	60	120	
Li	6	2	18544	0.58	21135	87.7	60	120	

Sample Report

Sample Name	**460-152135-F-16-A@20**
Data File Name	**228SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:50:43-05:00**
Type	**Sample**
VialNumber	**4212**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.04	0.87	ug/l	900	
Pb	208	209	2	2.58	51.55	ug/l	3600	
Tl	205	209	2	0.01	0.28	ug/l	720	
Ba	137	159	2	5.97	119.41	ug/l	3600	
Sb	121	115	2	-0.23	-4.53	ug/l	3600	
Sn	118	115	2	1.49	29.70	ug/l	3600	
Cd	111	115	2	0.02	0.47	ug/l	3600	
Ag	107	115	2	-0.04	-0.77	ug/l	450	
Mo	95	115	2	0.17	3.49	ug/l	3600	
Sr	88	115	2	0.97	19.47	ug/l	3600	
As	75	74	2	1.46	29.13	ug/l	3600	
Zn	66	45	2	22.26	445.16	ug/l	900	
Cu	63	45	2	6.57	131.40	ug/l	450	
Ni	60	45	2	2.89	57.85	ug/l	900	
Co	59	45	2	1.54	30.81	ug/l	1800	
Fe	56	45	2	4007.23	80144.70	ug/l	45000	
Mn	55	45	2	98.16	1963.24	ug/l	18000	
Cr	52	45	2	3.39	67.89	ug/l	3600	
V	51	45	2	7.79	155.78	ug/l	3600	
Ti	47	45	2	58.10	1162.09	ug/l	3600	
Ca	44	45	2	195.29	3905.73	ug/l	360000	
K	39	45	2	162.91	3258.20	ug/l	360000	
Al	27	45	2	1594.96	31899.10	ug/l	36000	
Mg	24	45	2	384.81	7696.28	ug/l	360000	
Na	23	45	2	23.85	476.90	ug/l	360000	
B	11	6	2	0.32	6.37	ug/l	7200	
Be	9	6	2	0.10	1.94	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	57716	0.39	56992	101.3	60	120	
Bi	209	2	281926	0.40	286349	98.5	60	120	
Tb	159	2	350514	0.75	337743	103.8	60	120	
In	115	2	96997	1.07	90201	107.5	60	120	
Kr	83	2	36	14.32	23	152.4	-1000	1000	
Ge	74	2	17845	1.24	16732	106.7	60	120	
Sc	45	2	148044	2.16	130618	113.3	60	120	
Li	6	2	18633	0.92	21135	88.2	60	120	

Sample Report

Sample Name	**460-152159-B-5-A@20**
Data File Name	**229SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:54:01-05:00**
Type	**Sample**
VialNumber	**3207**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.19	3.89	ug/l	900	
Pb	208	209	2	17.77	355.42	ug/l	3600	
Tl	205	209	2	0.09	1.80	ug/l	720	
Ba	137	159	2	77.02	1540.45	ug/l	3600	
Sb	121	115	2	-0.20	-4.05	ug/l	3600	
Sn	118	115	2	1.90	37.96	ug/l	3600	
Cd	111	115	2	0.09	1.77	ug/l	3600	
Ag	107	115	2	-0.02	-0.43	ug/l	450	
Mo	95	115	2	0.46	9.16	ug/l	3600	
Sr	88	115	2	8.86	177.23	ug/l	3600	
As	75	74	2	3.32	66.42	ug/l	3600	
Zn	66	45	2	29.97	599.33	ug/l	900	
Cu	63	45	2	15.82	316.35	ug/l	450	
Ni	60	45	2	24.08	481.53	ug/l	900	
Co	59	45	2	10.67	213.31	ug/l	1800	
Fe	56	45	2	25013.99	500279.70	ug/l	45000	
Mn	55	45	2	334.20	6684.00	ug/l	18000	
Cr	52	45	2	61.91	1238.24	ug/l	3600	
V	51	45	2	48.44	968.87	ug/l	3600	
Ti	47	45	2	417.39	8347.72	ug/l	3600	
Ca	44	45	2	1598.38	31967.52	ug/l	360000	
K	39	45	2	682.65	13653.05	ug/l	360000	
Al	27	45	2	16023.17	320463.43	ug/l	36000	
Mg	24	45	2	2002.29	40045.86	ug/l	360000	
Na	23	45	2	832.43	16648.69	ug/l	360000	
B	11	6	2	1.59	31.84	ug/l	7200	
Be	9	6	2	0.73	14.56	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56831	1.04	56992	99.7	60	120	
Bi	209	2	276985	0.48	286349	96.7	60	120	
Tb	159	2	352072	1.04	337743	104.2	60	120	
In	115	2	96080	0.56	90201	106.5	60	120	
Kr	83	2	54	18.70	23	233.4	-1000	1000	
Ge	74	2	17660	1.00	16732	105.5	60	120	
Sc	45	2	151883	1.25	130618	116.3	60	120	
Li	6	2	18001	1.07	21135	85.2	60	120	

Sample Report

Sample Name	**460-152159-B-10-A@20**
Data File Name	**230SMPL.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T03:57:20-05:00**
Type	**Sample**
VialNumber	**3208**
Dilution	**20**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	FinalConcentration	Units	High Value	QC Flag
Se	78	74	1	0.26	5.10	ug/l	900	
Pb	208	209	2	53.48	1069.51	ug/l	3600	
Tl	205	209	2	0.11	2.21	ug/l	720	
Ba	137	159	2	100.24	2004.87	ug/l	3600	
Sb	121	115	2	0.13	2.63	ug/l	3600	
Sn	118	115	2	9.95	199.03	ug/l	3600	
Cd	111	115	2	0.18	3.56	ug/l	3600	
Ag	107	115	2	0.03	0.50	ug/l	450	
Mo	95	115	2	0.95	18.98	ug/l	3600	
Sr	88	115	2	14.75	295.00	ug/l	3600	
As	75	74	2	4.66	93.30	ug/l	3600	
Zn	66	45	2	148.19	2963.76	ug/l	900	
Cu	63	45	2	43.44	868.78	ug/l	450	
Ni	60	45	2	17.47	349.32	ug/l	900	
Co	59	45	2	6.51	130.25	ug/l	1800	
Fe	56	45	2	15204.77	304095.37	ug/l	45000	
Mn	55	45	2	370.93	7418.58	ug/l	18000	
Cr	52	45	2	57.51	1150.15	ug/l	3600	
V	51	45	2	30.25	604.91	ug/l	3600	
Ti	47	45	2	342.42	6848.39	ug/l	3600	
Ca	44	45	2	5777.56	115551.28	ug/l	360000	
K	39	45	2	859.67	17193.39	ug/l	360000	
Al	27	45	2	11826.41	236528.17	ug/l	36000	
Mg	24	45	2	3343.25	66865.07	ug/l	360000	
Na	23	45	2	170.06	3401.26	ug/l	360000	
B	11	6	2	6.09	121.88	ug/l	7200	
Be	9	6	2	0.74	14.77	ug/l	3600	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Ge	74	1	56812	0.64	56992	99.7	60	120	
Bi	209	2	275507	0.47	286349	96.2	60	120	
Tb	159	2	349957	0.56	337743	103.6	60	120	
In	115	2	95034	1.00	90201	105.4	60	120	
Kr	83	2	56	27.06	23	238.1	-1000	1000	
Ge	74	2	17833	0.67	16732	106.6	60	120	
Sc	45	2	147215	1.65	130618	112.7	60	120	
Li	6	2	17775	1.66	21135	84.1	60	120	

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV 5806487**
Data File Name	**2316CCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T04:00:39-05:00**
Type	**6-CCV**
VialNumber	**1301**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	51.39	2.60	ug/l	4587.21	0.99	50	102.8	90	110	
B	11	6	2	105.47	0.35	ug/l	2777.50	1.41	100	105.5	90	110	
Na	23	45	2	4965.24	1.04	ug/l	2464963.07	1.25	5000	99.3	90	110	
Mg	24	45	2	4853.50	1.28	ug/l	1163766.72	0.73	5000	97.1	90	110	
Al	27	45	2	501.42	1.42	ug/l	43720.36	0.56	500	100.3	90	110	
K	39	45	2	5243.65	1.00	ug/l	849668.32	1.09	5000	104.9	90	110	
Ca	44	45	2	5202.87	0.88	ug/l	37911.25	1.50	5000	104.1	90	110	
Ti	47	45	2	52.22	1.60	ug/l	2342.99	0.50	50	104.4	90	110	
V	51	45	2	48.65	0.65	ug/l	69312.11	1.96	50	97.3	90	110	
Cr	52	45	2	47.72	1.57	ug/l	83643.05	0.44	50	95.4	90	110	
Mn	55	45	2	502.14	1.57	ug/l	436767.34	0.58	500	100.4	90	110	
Fe	56	45	2	4869.60	1.02	ug/l	6317085.05	0.96	5000	97.4	90	110	
Co	59	45	2	47.42	1.59	ug/l	128564.23	0.75	50	94.8	90	110	
Ni	60	45	2	47.09	1.57	ug/l	35221.27	1.21	50	94.2	90	110	
Cu	63	45	2	47.37	0.95	ug/l	95074.93	1.73	50	94.7	90	110	
Zn	66	45	2	46.97	2.73	ug/l	10514.97	1.00	50	93.9	90	110	
As	75	74	2	50.27	1.60	ug/l	6876.06	0.30	50	100.5	90	110	
Se	78	74	1	48.74	0.28	ug/l	5223.00	0.92	50	97.5	90	110	
Sr	88	115	2	53.80	1.11	ug/l	43248.00	0.68	50	107.6	90	110	
Mo	95	115	2	48.51	0.45	ug/l	37705.86	0.53	50	97.0	90	110	
Ag	107	115	2	46.84	1.35	ug/l	114964.36	0.77	50	93.7	90	110	
Cd	111	115	2	47.77	1.37	ug/l	14090.31	1.35	50	95.5	90	110	
Sn	118	115	2	48.90	2.17	ug/l	30750.92	1.21	50	97.8	90	110	
Sb	121	115	2	50.90	0.37	ug/l	36052.72	1.04	50	101.8	90	110	
Ba	137	159	2	53.02	0.75	ug/l	14728.84	0.80	50	106.0	90	110	
Tl	205	209	2	9.92	1.43	ug/l	57416.77	1.03	10	99.2	90	110	
Pb	208	209	2	50.67	0.55	ug/l	380005.34	0.21	50	101.3	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19082	1.59	21135	90.3	60	120	
Sc	45	2	146634	1.96	130618	112.3	60	120	
Ge	74	1	59383	0.69	56992	104.2	60	120	
Ge	74	2	17860	1.58	16732	106.7	60	120	
Kr	83	2	43	27.74	23	185.7	-1000	1000	
In	115	2	97424	0.97	90201	108.0	60	120	
Tb	159	2	348121	0.06	337743	103.1	60	120	
Bi	209	2	280256	0.42	286349	97.9	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB**
Data File Name	**2326CCB.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T04:03:56-05:00**
Type	**6-CCB**
VialNumber	**1302**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	QC High	QC Flag
Be	9	6	2	-0.03	-6.79	ug/l	1.11	17.16	0.2	
B	11	6	2	-1.10	-191.16	ug/l	498.35	9.10	20	
Na	23	45	2	-2.36	-65.54	ug/l	37648.48	1.64	50	
Mg	24	45	2	1.07	6.65	ug/l	440.02	3.03	50	
Al	27	45	2	0.40	20.78	ug/l	110.56	5.71	10	
K	39	45	2	14.17	138.73	ug/l	25208.59	11.72	50	
Ca	44	45	2	-1.34	-159.05	ug/l	232.23	7.67	50	
Ti	47	45	2	-0.02	-298.33	ug/l	2.22	114.49	1	
V	51	45	2	0.08	23.67	ug/l	196.68	14.78	1	
Cr	52	45	2	-0.06	-18.62	ug/l	224.45	8.18	1	
Mn	55	45	2	0.09	33.56	ug/l	88.89	27.64	2	
Fe	56	45	2	0.97	7.67	ug/l	4059.47	2.14	30	
Co	59	45	2	-0.01	-32.88	ug/l	26.67	43.30	1	
Ni	60	45	2	0.26	23.10	ug/l	254.45	17.10	1	
Cu	63	45	2	0.14	23.73	ug/l	735.59	8.57	1	
Zn	66	45	2	-0.47	-24.78	ug/l	176.67	13.60	4	
As	75	74	2	0.02	3.07	ug/l	8.33	0.00	0.5	
Se	78	74	1	0.01	95.45	ug/l	6.56	19.23	0.5	
Sr	88	115	2	0.01	78.45	ug/l	13.33	25.01	1	
Mo	95	115	2	-0.01	-246.09	ug/l	24.44	56.78	1	
Ag	107	115	2	-0.04	-5.24	ug/l	15.56	32.73	1	
Cd	111	115	2	-0.01	-58.08	ug/l	1.11	173.21	0.5	
Sn	118	115	2	0.02	70.43	ug/l	70.00	12.59	4	
Sb	121	115	2	-0.25	-8.63	ug/l	95.56	16.49	0.5	
Ba	137	159	2	0.09	20.16	ug/l	32.22	15.80	1	
Tl	205	209	2	0.00	-23.99	ug/l	72.23	2.67	0.2	
Pb	208	209	2	0.00	-277.05	ug/l	164.45	16.51	0.3	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	19582	0.78	21135	92.7	60	120	
Sc	45	2	147985	1.02	130618	113.3	60	120	
Ge	74	1	59751	0.53	56992	104.8	60	120	
Ge	74	2	18075	0.99	16732	108.0	60	120	
Kr	83	2	19	10.18	23	81.0	-1000	1000	
In	115	2	99353	0.49	90201	110.1	60	120	
Tb	159	2	351624	0.24	337743	104.1	60	120	
Bi	209	2	289691	0.55	286349	101.2	60	120	

TuneStep	TuneFile
1	h2.u
2	he.u

Low Level Continuing Calibration Verification (LLCCV) - US EPA Method 6020

Sample Name	**CCVL 5806483**
Data File Name	**233LLCV.D**
DataPath	**C:\ICPMH\1\DATA\18C19o00.B**
Acq Date Time	**2018-03-20T04:07:17-05:00**
Type	**6-CCVLL**
VialNumber	**1103**
Dilution	**1**
Comment	
Operator	
ISTDRefDataFileName	**004CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	%RSD	Units	CPS	CPS%RSD	Exp Value	%Rec	QC Low	QC High	QC Flag
Be	9	6	2	0.35	12.21	ug/l	37.44	9.52	0.4	88.3	70	130	
B	11	6	2	41.74	9.14	ug/l	1491.20	6.03	40	104.4	70	130	
Na	23	45	2	96.59	1.84	ug/l	87195.86	1.46	100	96.6	70	130	
Mg	24	45	2	97.36	2.20	ug/l	23942.82	2.13	100	97.4	70	130	
Al	27	45	2	20.84	1.64	ug/l	1922.37	2.18	20	104.2	70	130	
K	39	45	2	120.13	14.92	ug/l	42440.32	6.45	100	120.1	70	130	
Ca	44	45	2	99.88	1.20	ug/l	980.04	0.78	100	99.9	70	130	
Ti	47	45	2	2.09	12.68	ug/l	98.34	11.86	2	104.4	70	130	
V	51	45	2	2.01	1.99	ug/l	2988.16	2.68	2	100.4	70	130	
Cr	52	45	2	1.86	0.88	ug/l	3644.97	0.61	2	93.0	70	130	
Mn	55	45	2	4.01	3.19	ug/l	3566.08	2.63	4	100.3	70	130	
Fe	56	45	2	60.94	1.15	ug/l	83258.00	1.56	60	101.6	70	130	
Co	59	45	2	1.93	2.51	ug/l	5386.65	3.24	2	96.5	70	130	
Ni	60	45	2	1.83	2.60	ug/l	1452.34	3.25	2	91.6	70	130	
Cu	63	45	2	1.89	2.60	ug/l	4309.61	1.63	2	94.6	70	130	
Zn	66	45	2	7.49	1.76	ug/l	1945.74	1.75	8	93.7	70	130	
As	75	74	2	1.12	8.66	ug/l	162.78	7.75	1	111.9	70	130	
Se	78	74	1	4.66	5.42	ug/l	515.90	4.33	5	93.2	70	130	
Sr	88	115	2	2.12	3.62	ug/l	1756.82	3.29	2	105.8	70	130	
Mo	95	115	2	1.91	2.25	ug/l	1552.35	1.94	2	95.4	70	130	
Ag	107	115	2	0.95	6.85	ug/l	2513.62	7.51	1	95.2	70	130	
Cd	111	115	2	0.91	8.34	ug/l	278.90	7.59	1	90.6	70	130	
Sn	118	115	2	7.83	1.33	ug/l	5111.03	2.04	8	97.9	70	130	
Sb	121	115	2	0.72	6.65	ug/l	798.94	3.37	1	72.1	70	130	
Ba	137	159	2	2.32	10.54	ug/l	656.71	10.55	2	115.8	70	130	
Tl	205	209	2	0.40	4.56	ug/l	2498.08	4.15	0.4	100.4	70	130	
(Pb)	206	209	2	0.62	10.97	ug/l	1217.88	10.19	0.6	103.6	70	130	
(Pb)	207	209	2	0.55	5.36	ug/l	1020.07	4.53	0.6	92.2	70	130	
Pb	208	209	2	0.60	7.20	ug/l	4876.05	6.35	0.6	100.5	70	130	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Ref CPS	%Rec	QC Low	QC High	QC Flag
Li	6	2	20226	2.51	21135	95.7	60	120	
Sc	45	2	149245	0.75	130618	114.3	60	120	
Ge	74	1	60836	1.10	56992	106.7	60	120	
Ge	74	2	18348	1.42	16732	109.7	60	120	
Kr	83	2	33	26.47	23	142.9	-1000	1000	
In	115	2	100105	1.02	90201	111.0	60	120	
Tb	159	2	351504	0.34	337743	104.1	60	120	
Bi	209	2	291501	0.63	286349	101.8	60	120	

TuneStep	TuneFile
1	**h2.u**
2	**he.u**

03192018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 19 Mar 2018 13:41:08

Sample ID	Extended ID	µ Abs	Conc.	Chapter	Method	Date	Element
Cal Blank - 1		0	-	504533hg1	245.1_7470A	19 Mar 2018 14:05:13	Hg
Cal Blank - 1		57	-	504533hg1	245.1_7470A	19 Mar 2018 14:06:31	Hg
0.2 ug/L - 1		1041	-	504533hg1	245.1_7470A	19 Mar 2018 14:08:13	Hg
1.0 ug/L - 1		5083	-	504533hg1	245.1_7470A	19 Mar 2018 14:09:57	Hg
2.0 ug/L - 1		9966	-	504533hg1	245.1_7470A	19 Mar 2018 14:11:40	Hg
5.0 ug/L - 1		25268	-	504533hg1	245.1_7470A	19 Mar 2018 14:13:24	Hg
10.0 ug/L - 1		47546	-	504533hg1	245.1_7470A	19 Mar 2018 14:15:08	Hg
ICV - 1		0	(L)-1.4% -0.0703	504533hg1	245.1_7470A	19 Mar 2018 14:16:57	Hg
Cal Blank - 1		63	-	504533hg1	245.1_7470A	19 Mar 2018 14:18:42	Hg
0.2 ug/L - 1		966	-	504533hg1	245.1_7470A	19 Mar 2018 14:20:24	Hg
1.0 ug/L - 1		4792	-	504533hg1	245.1_7470A	19 Mar 2018 14:22:07	Hg
2.0 ug/L - 1		9575	-	504533hg1	245.1_7470A	19 Mar 2018 14:23:50	Hg
5.0 ug/L - 1		25384	-	504533hg1	245.1_7470A	19 Mar 2018 14:25:34	Hg
10.0 ug/L - 1		50438	-	504533hg1	245.1_7470A	19 Mar 2018 14:27:18	Hg
ICV - 1		24290	96.6% 4.8285	504533hg1	245.1_7470A	19 Mar 2018 14:29:07	Hg
ICB - 1		-189	-0.0074	504533hg1	245.1_7470A	19 Mar 2018 14:31:03	Hg
CRI - 1		999	113.6% 0.2273	504533hg1	245.1_7470A	19 Mar 2018 14:32:52	Hg
QCS - 1		23948	95.2% 4.7610	504533hg1	245.1_7470A	19 Mar 2018 14:34:35	Hg
MCL - 1		9934	99.6% 1.9924	504533hg1	245.1_7470A	19 Mar 2018 14:36:18	Hg
CCV - 1		24445	97.2% 4.8591	504533hg1	245.1_7470A	19 Mar 2018 14:38:08	Hg
CCB - 1		-158	-0.0013	504533hg1	245.1_7470A	19 Mar 2018 14:39:53	Hg
MB 460-504533/1-A - 1		-4	0.0291	504533hg1	245.1_7470A	19 Mar 2018 14:41:43	Hg
LCS 460-504533/2-A - 1		4745	0.9673	504533hg1	245.1_7470A	19 Mar 2018 14:43:25	Hg
460-151771-D-9-B - 1		-98	0.0105	504533hg1	245.1_7470A	19 Mar 2018 14:45:06	Hg
460-151771-D-9-C DU - 1		11	0.0321	504533hg1	245.1_7470A	19 Mar 2018 14:46:50	Hg
460-151771-D-9-D MS - 1		4329	0.8851	504533hg1	245.1_7470A	19 Mar 2018 14:48:31	Hg
sd 460-151771-D-9-B@5 - 1		-130	0.0042	504533hg1	245.1_7470A	19 Mar 2018 14:50:13	Hg
460-152098-E-1-D - 1		40	0.0378	504533hg1	245.1_7470A	19 Mar 2018 14:51:58	Hg
460-152098-E-2-B - 1		85	0.0467	504533hg1	245.1_7470A	19 Mar 2018 14:53:40	Hg
460-151831-B-1-C - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 14:55:22	Hg
460-151645-A-1-B - 1		168	0.0631	504533hg1	245.1_7470A	19 Mar 2018 14:57:05	Hg
CCV - 1		24206	96.2% 4.8119	504533hg1	245.1_7470A	19 Mar 2018 14:58:48	Hg
CCB - 1		-194	-0.0084	504533hg1	245.1_7470A	19 Mar 2018 15:00:29	Hg
460-151652-D-2-B - 1		36	0.0370	504533hg1	245.1_7470A	19 Mar 2018 15:02:20	Hg
460-152034-E-1-B - 1		57	0.0412	504533hg1	245.1_7470A	19 Mar 2018 15:04:03	Hg
460-152164-H-1-A@10 - 1		1421	0.3106	504533hg1	245.1_7470A	19 Mar 2018 15:05:46	Hg
460-152022-E-5-A - 1		127045	25.1284	504533hg1	245.1_7470A	19 Mar 2018 15:07:27	Hg
460-152131-H-3-B - 1		-106	0.0090	504533hg1	245.1_7470A	19 Mar 2018 15:09:10	Hg
460-152131-H-4-B - 1		1556	0.3373	504533hg1	245.1_7470A	19 Mar 2018 15:11:13	Hg
460-152135-D-17-A - 1		-75	0.0151	504533hg1	245.1_7470A	19 Mar 2018 15:12:55	Hg
460-152136-F-1-D - 1		-9	0.0281	504533hg1	245.1_7470A	19 Mar 2018 15:14:38	Hg
460-151771-D-8-B - 1		17	0.0333	504533hg1	245.1_7470A	19 Mar 2018 15:16:19	Hg
460-151771-D-10-B - 1		21	0.0340	504533hg1	245.1_7470A	19 Mar 2018 15:18:01	Hg
CCV - 1		24821	98.7% 4.9334	504533hg1	245.1_7470A	19 Mar 2018 15:19:44	Hg
CCB - 1		-175	-0.0047	504533hg1	245.1_7470A	19 Mar 2018 15:21:25	Hg
460-151771-D-11-B - 1		40	0.0378	504533hg1	245.1_7470A	19 Mar 2018 15:23:15	Hg
460-152002-L-5-B - 1		88	0.0473	504533hg1	245.1_7470A	19 Mar 2018 15:24:58	Hg
460-152002-J-6-B - 1		-1	0.0297	504533hg1	245.1_7470A	19 Mar 2018 15:26:41	Hg
460-152002-D-8-B - 1		120	0.0536	504533hg1	245.1_7470A	19 Mar 2018 15:28:24	Hg
MB 460-504535/1-A - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 15:30:08	Hg
MB 460-504532/1-B - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 15:31:50	Hg
LCS 460-504535/3-A - 1		4633	0.9452	504533hg1	245.1_7470A	19 Mar 2018 15:33:32	Hg
460-151962-E-5-B - 1		42	0.0382	504533hg1	245.1_7470A	19 Mar 2018 15:35:14	Hg
460-151962-E-5-C DU - 1		154	0.0603	504533hg1	245.1_7470A	19 Mar 2018 15:36:57	Hg
460-151962-E-5-D MS - 1		4015	0.8231	504533hg1	245.1_7470A	19 Mar 2018 15:38:38	Hg
CCV - 1		25029	99.5% 4.9745	504533hg1	245.1_7470A	19 Mar 2018 15:40:20	Hg
CCB - 1		-184	-0.0065	504533hg1	245.1_7470A	19 Mar 2018 15:42:04	Hg
sd 460-151962-E-5-B@5 - 1		63	0.0423	504533hg1	245.1_7470A	19 Mar 2018 15:43:55	Hg
460-152098-D-1-F - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 15:45:37	Hg
460-152098-D-2-L - 1		-18	0.0263	504533hg1	245.1_7470A	19 Mar 2018 15:47:19	Hg
460-152136-D-1-F - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 15:49:02	Hg
460-151962-E-1-B - 1		6	0.0311	504533hg1	245.1_7470A	19 Mar 2018 15:50:45	Hg
460-151962-E-2-B - 1		7	0.0313	504533hg1	245.1_7470A	19 Mar 2018 15:52:28	Hg
460-151962-E-3-B - 1		83	0.0463	504533hg1	245.1_7470A	19 Mar 2018 15:54:11	Hg
460-151962-E-4-B - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 15:55:53	Hg
460-151962-E-6-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 15:57:35	Hg
460-151962-E-7-B - 1		13	0.0325	504533hg1	245.1_7470A	19 Mar 2018 15:59:17	Hg
CCV - 1		24969	99.3% 4.9627	504533hg1	245.1_7470A	19 Mar 2018 16:00:59	Hg
CCB - 1		-181	-0.0059	504533hg1	245.1_7470A	19 Mar 2018 16:02:40	Hg
460-151962-E-8-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 16:04:31	Hg
460-151962-E-9-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 16:06:13	Hg
460-151962-E-10-B - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 16:07:54	Hg
460-152064-D-1-F - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 16:09:36	Hg
MB 460-504540/1-A - 1		-6	0.0287	504533hg1	245.1_7470A	19 Mar 2018 16:11:18	Hg
LCS 460-504540/2-A - 1		21965	4.3692	504533hg1	245.1_7470A	19 Mar 2018 16:13:01	Hg
460-151958-B-10-E - 1		-244	-0.0183	504533hg1	245.1_7470A	19 Mar 2018 16:14:44	Hg
460-151958-B-10-F DU - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 16:16:37	Hg
460-151958-B-10-G MS - 1		24284	4.8273	504533hg1	245.1_7470A	19 Mar 2018 16:18:20	Hg
sd 460-151958-B-10-E@5 - 1		-195	-0.0086	504533hg1	245.1_7470A	19 Mar 2018 16:20:03	Hg
CCV - 1		25243	100.3% 5.0168	504533hg1	245.1_7470A	19 Mar 2018 16:21:51	Hg
CCB - 1		-153	-0.0003	504533hg1	245.1_7470A	19 Mar 2018 16:23:33	Hg
460-151958-B-8-H - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:25:24	Hg
460-151958-B-9-F - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 16:27:06	Hg
460-151958-C-11-F - 1		6	0.0311	504533hg1	245.1_7470A	19 Mar 2018 16:28:48	Hg
460-151958-D-12-E - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 16:30:30	Hg
460-151958-D-14-E - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 16:32:13	Hg
460-151958-D-15-E - 1		-1	0.0297	504533hg1	245.1_7470A	19 Mar 2018 16:33:55	Hg
460-151958-D-16-E - 1		85	0.0467	504533hg1	245.1_7470A	19 Mar 2018 16:35:37	Hg
460-151958-D-17-E - 1		4	0.0307	504533hg1	245.1_7470A	19 Mar 2018 16:37:19	Hg
460-151958-D-18-E - 1		84	0.0465	504533hg1	245.1_7470A	19 Mar 2018 16:39:02	Hg
460-151958-D-19-E - 1		1	0.0301	504533hg1	245.1_7470A	19 Mar 2018 16:40:46	Hg
CCV - 1		24651	98.0% 4.8998	504533hg1	245.1_7470A	19 Mar 2018 16:42:29	Hg
CCB - 1		-171	-0.0039	504533hg1	245.1_7470A	19 Mar 2018 16:44:10	Hg
460-151968-K-1-J - 1		19	0.0336	504533hg1	245.1_7470A	19 Mar 2018 16:46:01	Hg
460-151978-C-3-G - 1		14	0.0327	504533hg1	245.1_7470A	19 Mar 2018 16:47:43	Hg
460-151978-C-4-E - 1		9	0.0317	504533hg1	245.1_7470A	19 Mar 2018 16:49:25	Hg
460-151978-D-5-F - 1		17	0.0333	504533hg1	245.1_7470A	19 Mar 2018 16:51:08	Hg
460-151978-C-6-E - 1		5	0.0309	504533hg1	245.1_7470A	19 Mar 2018 16:52:50	Hg
460-151978-C-7-E - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:54:33	Hg
460-151978-C-9-F - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:56:15	Hg
460-152063-G-5-E - 1		255	0.0803	504533hg1	245.1_7470A	19 Mar 2018 16:57:57	Hg
460-152163-H-1-H - 1		-13	0.0279	504533hg1	245.1_7470A	19 Mar 2018 16:59:39	Hg
LB 460-504113/1-F - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 17:01:22	Hg

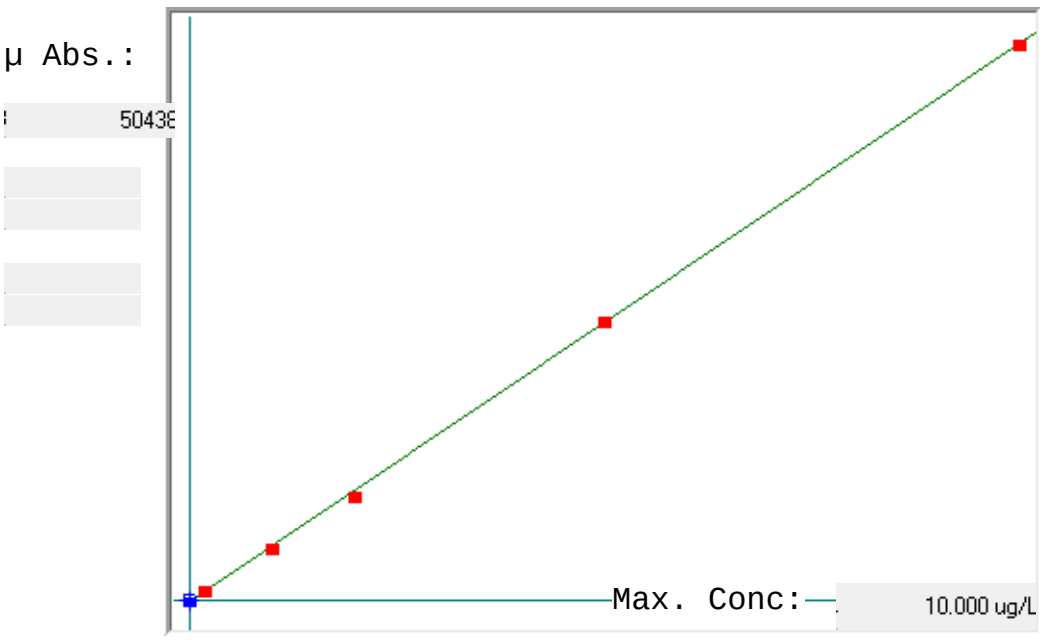
03192018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 19 Mar 2018 13:41:08

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
CCV - 1		24334	96.7% 4.8372	504533hg1	245.1_7470A	19 Mar 2018 17:03:05	Hg
CCB - 1		-178	-0.0053	504533hg1	245.1_7470A	19 Mar 2018 17:04:47	Hg
LB 460-504361/1-E - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 17:06:37	Hg
LB 460-504362/1-F - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 17:08:20	Hg
460-152022-E-5-A@5 - 1		24764	4.9222	504533hg1	245.1_7470A	19 Mar 2018 17:10:04	Hg
CCV - 1		24002	95.4% 4.7716	504533hg1	245.1_7470A	19 Mar 2018 17:11:46	Hg
CCB - 1		-163	-0.0023	504533hg1	245.1_7470A	19 Mar 2018 17:13:39	Hg

245.1_7470A

Linear



A= 0.0000e+000

B= 1.9756e-004

C= 2.9894e-002

Rho= 0.9999268

Accept= Accepted

Accepted Date=

03/19/18 14:29

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Cal Blank	0.000	0.042	0.042	63	0.000	63				
0.2 ug/L	0.200	0.221	0.021	966	0.0 %	966				
1.0 ug/L	1.000	0.977	-0.023	4792	0.0 %	4792				
2.0 ug/L	2.000	1.921	-0.079	9575	0.0 %	9575				
5.0 ug/L	5.000	5.045	0.045	25384	0.0 %	25384				
10.0 ug/L	10.000	9.994	-0.006	50438	0.0 %	50438				

03192018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 19 Mar 2018 13:41:08

Sample ID	Extended ID	µ Abs	Conc.	Chapter	Method	Date	Element
Cal Blank - 1		0	-	504533hg1	245.1_7470A	19 Mar 2018 14:05:13	Hg
Cal Blank - 1		57	-	504533hg1	245.1_7470A	19 Mar 2018 14:06:31	Hg
0.2 ug/L - 1		1041	-	504533hg1	245.1_7470A	19 Mar 2018 14:08:13	Hg
1.0 ug/L - 1		5083	-	504533hg1	245.1_7470A	19 Mar 2018 14:09:57	Hg
2.0 ug/L - 1		9966	-	504533hg1	245.1_7470A	19 Mar 2018 14:11:40	Hg
5.0 ug/L - 1		25268	-	504533hg1	245.1_7470A	19 Mar 2018 14:13:24	Hg
10.0 ug/L - 1		47546	-	504533hg1	245.1_7470A	19 Mar 2018 14:15:08	Hg
ICV - 1		0	(L)-1.4% -0.0703	504533hg1	245.1_7470A	19 Mar 2018 14:16:57	Hg
Cal Blank - 1		63	-	504533hg1	245.1_7470A	19 Mar 2018 14:18:42	Hg
0.2 ug/L - 1		966	-	504533hg1	245.1_7470A	19 Mar 2018 14:20:24	Hg
1.0 ug/L - 1		4792	-	504533hg1	245.1_7470A	19 Mar 2018 14:22:07	Hg
2.0 ug/L - 1		9575	-	504533hg1	245.1_7470A	19 Mar 2018 14:23:50	Hg
5.0 ug/L - 1		25384	-	504533hg1	245.1_7470A	19 Mar 2018 14:25:34	Hg
10.0 ug/L - 1		50438	-	504533hg1	245.1_7470A	19 Mar 2018 14:27:18	Hg
ICV - 1		24290	96.6% 4.8285	504533hg1	245.1_7470A	19 Mar 2018 14:29:07	Hg
ICB - 1		-189	-0.0074	504533hg1	245.1_7470A	19 Mar 2018 14:31:03	Hg
CRI - 1		999	113.6% 0.2273	504533hg1	245.1_7470A	19 Mar 2018 14:32:52	Hg
QCS - 1		23948	95.2% 4.7610	504533hg1	245.1_7470A	19 Mar 2018 14:34:35	Hg
MCL - 1		9934	99.6% 1.9924	504533hg1	245.1_7470A	19 Mar 2018 14:36:18	Hg
CCV - 1		24445	97.2% 4.8591	504533hg1	245.1_7470A	19 Mar 2018 14:38:08	Hg
CCB - 1		-158	-0.0013	504533hg1	245.1_7470A	19 Mar 2018 14:39:53	Hg
MB 460-504533/1-A - 1		-4	0.0291	504533hg1	245.1_7470A	19 Mar 2018 14:41:43	Hg
LCS 460-504533/2-A - 1		4745	0.9673	504533hg1	245.1_7470A	19 Mar 2018 14:43:25	Hg
460-151771-D-9-B - 1		-98	0.0105	504533hg1	245.1_7470A	19 Mar 2018 14:45:06	Hg
460-151771-D-9-C DU - 1		11	0.0321	504533hg1	245.1_7470A	19 Mar 2018 14:46:50	Hg
460-151771-D-9-D MS - 1		4329	0.8851	504533hg1	245.1_7470A	19 Mar 2018 14:48:31	Hg
sd 460-151771-D-9-B@5 - 1		-130	0.0042	504533hg1	245.1_7470A	19 Mar 2018 14:50:13	Hg
460-152098-E-1-D - 1		40	0.0378	504533hg1	245.1_7470A	19 Mar 2018 14:51:58	Hg
460-152098-E-2-B - 1		85	0.0467	504533hg1	245.1_7470A	19 Mar 2018 14:53:40	Hg
460-151831-B-1-C - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 14:55:22	Hg
460-151645-A-1-B - 1		168	0.0631	504533hg1	245.1_7470A	19 Mar 2018 14:57:05	Hg
CCV - 1		24206	96.2% 4.8119	504533hg1	245.1_7470A	19 Mar 2018 14:58:48	Hg
CCB - 1		-194	-0.0084	504533hg1	245.1_7470A	19 Mar 2018 15:00:29	Hg
460-151652-D-2-B - 1		36	0.0370	504533hg1	245.1_7470A	19 Mar 2018 15:02:20	Hg
460-152034-E-1-B - 1		57	0.0412	504533hg1	245.1_7470A	19 Mar 2018 15:04:03	Hg
460-152164-H-1-A@10 - 1		1421	0.3106	504533hg1	245.1_7470A	19 Mar 2018 15:05:46	Hg
460-152022-E-5-A - 1		127045	25.1284	504533hg1	245.1_7470A	19 Mar 2018 15:07:27	Hg
460-152131-H-3-B - 1		-106	0.0090	504533hg1	245.1_7470A	19 Mar 2018 15:09:10	Hg
460-152131-H-4-B - 1		1556	0.3373	504533hg1	245.1_7470A	19 Mar 2018 15:11:13	Hg
460-152135-D-17-A - 1		-75	0.0151	504533hg1	245.1_7470A	19 Mar 2018 15:12:55	Hg
460-152136-F-1-D - 1		-9	0.0281	504533hg1	245.1_7470A	19 Mar 2018 15:14:38	Hg
460-151771-D-8-B - 1		17	0.0333	504533hg1	245.1_7470A	19 Mar 2018 15:16:19	Hg
460-151771-D-10-B - 1		21	0.0340	504533hg1	245.1_7470A	19 Mar 2018 15:18:01	Hg
CCV - 1		24821	98.7% 4.9334	504533hg1	245.1_7470A	19 Mar 2018 15:19:44	Hg
CCB - 1		-175	-0.0047	504533hg1	245.1_7470A	19 Mar 2018 15:21:25	Hg
460-151771-D-11-B - 1		40	0.0378	504533hg1	245.1_7470A	19 Mar 2018 15:23:15	Hg
460-152002-L-5-B - 1		88	0.0473	504533hg1	245.1_7470A	19 Mar 2018 15:24:58	Hg
460-152002-J-6-B - 1		-1	0.0297	504533hg1	245.1_7470A	19 Mar 2018 15:26:41	Hg
460-152002-D-8-B - 1		120	0.0536	504533hg1	245.1_7470A	19 Mar 2018 15:28:24	Hg
MB 460-504535/1-A - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 15:30:08	Hg
MB 460-504532/1-B - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 15:31:50	Hg
LCS 460-504535/3-A - 1		4633	0.9452	504533hg1	245.1_7470A	19 Mar 2018 15:33:32	Hg
460-151962-E-5-B - 1		42	0.0382	504533hg1	245.1_7470A	19 Mar 2018 15:35:14	Hg
460-151962-E-5-C DU - 1		154	0.0603	504533hg1	245.1_7470A	19 Mar 2018 15:36:57	Hg
460-151962-E-5-D MS - 1		4015	0.8231	504533hg1	245.1_7470A	19 Mar 2018 15:38:38	Hg
CCV - 1		25029	99.5% 4.9745	504533hg1	245.1_7470A	19 Mar 2018 15:40:20	Hg
CCB - 1		-184	-0.0065	504533hg1	245.1_7470A	19 Mar 2018 15:42:04	Hg
sd 460-151962-E-5-B@5 - 1		63	0.0423	504533hg1	245.1_7470A	19 Mar 2018 15:43:55	Hg
460-152098-D-1-F - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 15:45:37	Hg
460-152098-D-2-L - 1		-18	0.0263	504533hg1	245.1_7470A	19 Mar 2018 15:47:19	Hg
460-152136-D-1-F - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 15:49:02	Hg
460-151962-E-1-B - 1		6	0.0311	504533hg1	245.1_7470A	19 Mar 2018 15:50:45	Hg
460-151962-E-2-B - 1		7	0.0313	504533hg1	245.1_7470A	19 Mar 2018 15:52:28	Hg
460-151962-E-3-B - 1		83	0.0463	504533hg1	245.1_7470A	19 Mar 2018 15:54:11	Hg
460-151962-E-4-B - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 15:55:53	Hg
460-151962-E-6-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 15:57:35	Hg
460-151962-E-7-B - 1		13	0.0325	504533hg1	245.1_7470A	19 Mar 2018 15:59:17	Hg
CCV - 1		24969	99.3% 4.9627	504533hg1	245.1_7470A	19 Mar 2018 16:00:59	Hg
CCB - 1		-181	-0.0059	504533hg1	245.1_7470A	19 Mar 2018 16:02:40	Hg
460-151962-E-8-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 16:04:31	Hg
460-151962-E-9-B - 1		-2	0.0295	504533hg1	245.1_7470A	19 Mar 2018 16:06:13	Hg
460-151962-E-10-B - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 16:07:54	Hg
460-152064-D-1-F - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 16:09:36	Hg
MB 460-504540/1-A - 1		-6	0.0287	504533hg1	245.1_7470A	19 Mar 2018 16:11:18	Hg
LCS 460-504540/2-A - 1		21965	4.3692	504533hg1	245.1_7470A	19 Mar 2018 16:13:01	Hg
460-151958-B-10-E - 1		-244	-0.0183	504533hg1	245.1_7470A	19 Mar 2018 16:14:44	Hg
460-151958-B-10-F DU - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 16:16:37	Hg
460-151958-B-10-G MS - 1		24284	4.8273	504533hg1	245.1_7470A	19 Mar 2018 16:18:20	Hg
sd 460-151958-B-10-E@5 - 1		-195	-0.0086	504533hg1	245.1_7470A	19 Mar 2018 16:20:03	Hg
CCV - 1		25243	100.3% 5.0168	504533hg1	245.1_7470A	19 Mar 2018 16:21:51	Hg
CCB - 1		-153	-0.0003	504533hg1	245.1_7470A	19 Mar 2018 16:23:33	Hg
460-151958-B-8-H - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:25:24	Hg
460-151958-B-9-F - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 16:27:06	Hg
460-151958-C-11-F - 1		6	0.0311	504533hg1	245.1_7470A	19 Mar 2018 16:28:48	Hg
460-151958-D-12-E - 1		-7	0.0285	504533hg1	245.1_7470A	19 Mar 2018 16:30:30	Hg
460-151958-D-14-E - 1		2	0.0303	504533hg1	245.1_7470A	19 Mar 2018 16:32:13	Hg
460-151958-D-15-E - 1		-1	0.0297	504533hg1	245.1_7470A	19 Mar 2018 16:33:55	Hg
460-151958-D-16-E - 1		85	0.0467	504533hg1	245.1_7470A	19 Mar 2018 16:35:37	Hg
460-151958-D-17-E - 1		4	0.0307	504533hg1	245.1_7470A	19 Mar 2018 16:37:19	Hg
460-151958-D-18-E - 1		84	0.0465	504533hg1	245.1_7470A	19 Mar 2018 16:39:02	Hg
460-151958-D-19-E - 1		1	0.0301	504533hg1	245.1_7470A	19 Mar 2018 16:40:46	Hg
CCV - 1		24651	98.0% 4.8998	504533hg1	245.1_7470A	19 Mar 2018 16:42:29	Hg
CCB - 1		-171	-0.0039	504533hg1	245.1_7470A	19 Mar 2018 16:44:10	Hg
460-151968-K-1-J - 1		19	0.0336	504533hg1	245.1_7470A	19 Mar 2018 16:46:01	Hg
460-151978-C-3-G - 1		14	0.0327	504533hg1	245.1_7470A	19 Mar 2018 16:47:43	Hg
460-151978-C-4-E - 1		9	0.0317	504533hg1	245.1_7470A	19 Mar 2018 16:49:25	Hg
460-151978-D-5-F - 1		17	0.0333	504533hg1	245.1_7470A	19 Mar 2018 16:51:08	Hg
460-151978-C-6-E - 1		5	0.0309	504533hg1	245.1_7470A	19 Mar 2018 16:52:50	Hg
460-151978-C-7-E - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:54:33	Hg
460-151978-C-9-F - 1		3	0.0305	504533hg1	245.1_7470A	19 Mar 2018 16:56:15	Hg
460-152063-G-5-E - 1		255	0.0803	504533hg1	245.1_7470A	19 Mar 2018 16:57:57	Hg
460-152163-H-1-H - 1		-13	0.0274	504533hg1	245.1_7470A	19 Mar 2018 16:59:39	Hg
LB 460-504113/1-F - 1		-5	0.0289	504533hg1	245.1_7470A	19 Mar 2018 17:01:22	Hg

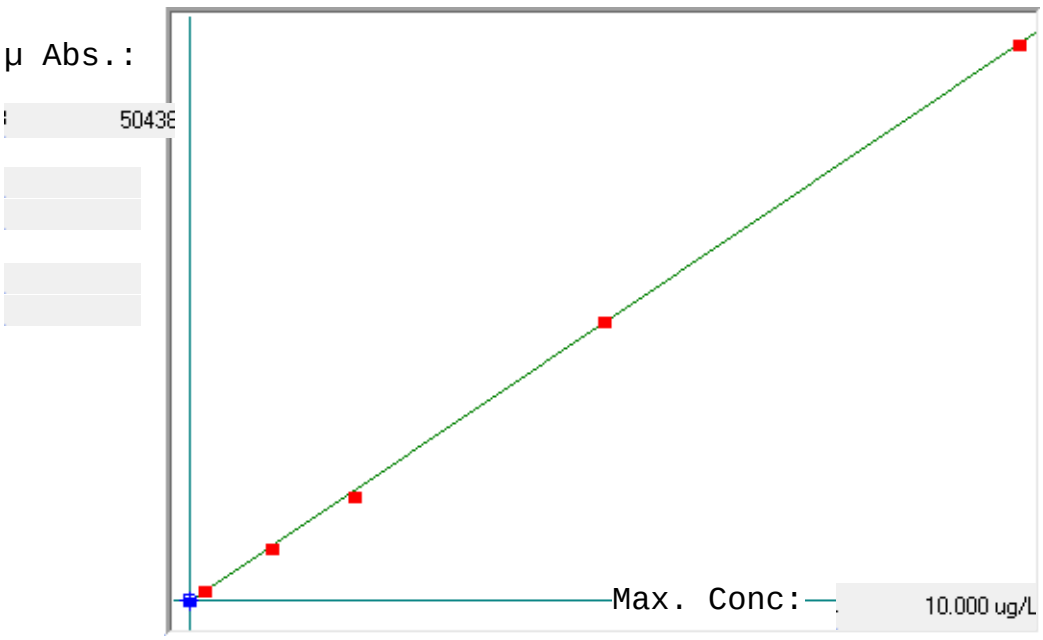
03192018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 19 Mar 2018 13:41:08

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
CCV - 1		24334	96.7% 4.8372	504533hg1	245.1_7470A	19 Mar 2018 17:03:05	Hg
CCB - 1		-178	-0.0053	504533hg1	245.1_7470A	19 Mar 2018 17:04:47	Hg
LB 460-504361/1-E - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 17:06:37	Hg
LB 460-504362/1-F - 1		0	0.0299	504533hg1	245.1_7470A	19 Mar 2018 17:08:20	Hg
460-152022-E-5-A@5 - 1		24764	4.9222	504533hg1	245.1_7470A	19 Mar 2018 17:10:04	Hg
CCV - 1		24002	95.4% 4.7716	504533hg1	245.1_7470A	19 Mar 2018 17:11:46	Hg
CCB - 1		-163	-0.0023	504533hg1	245.1_7470A	19 Mar 2018 17:13:39	Hg

245.1_7470A

Linear



A= 0.0000e+000

B= 1.9756e-004

C= 2.9894e-002

Rho= 0.9999268

Accept= Accepted

Accepted Date=

03/19/18 14:29

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Cal Blank	0.000	0.042	0.042	63	0.000	63				
0.2 ug/L	0.200	0.221	0.021	966	0.0 %	966				
1.0 ug/L	1.000	0.977	-0.023	4792	0.0 %	4792				
2.0 ug/L	2.000	1.921	-0.079	9575	0.0 %	9575				
5.0 ug/L	5.000	5.045	0.045	25384	0.0 %	25384				
10.0 ug/L	10.000	9.994	-0.006	50438	0.0 %	50438				

031918TSS

Method: 7471A/B Operator: Admin Date of Analysis: 19 Mar 2018 06:51:27

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
0.2 ug/L - 1		0	-	504414HG1	7471A/B	19 Mar 2018 08:14:29	Hg
Cal Blk - 1		26	-	504414HG1	7471A/B	19 Mar 2018 08:14:45	Hg
0.2 ug/L - 1		33	-	504414HG1	7471A/B	19 Mar 2018 08:16:27	Hg
1.0 ug/L - 1		0	-	504414HG1	7471A/B	19 Mar 2018 08:18:10	Hg
Cal Blk - 1		13	-	504414HG1	7471A/B	19 Mar 2018 08:19:35	Hg
0.2 ug/L - 1		9	-	504414HG1	7471A/B	19 Mar 2018 08:21:17	Hg
1.0 ug/L - 1		0	-	504414HG1	7471A/B	19 Mar 2018 08:23:01	Hg
Cal Blk - 1		18	-	504414HG1	7471A/B	19 Mar 2018 08:25:35	Hg
0.2 ug/L - 1		189	-	504414HG1	7471A/B	19 Mar 2018 08:27:18	Hg
1.0 ug/L - 1		0	-	504414HG1	7471A/B	19 Mar 2018 08:29:01	Hg
Cal Blk - 1		15	-	504414HG1	7471A/B	19 Mar 2018 08:32:38	Hg
0.2 ug/L - 1		1739	-	504414HG1	7471A/B	19 Mar 2018 08:34:20	Hg
1.0 ug/L - 1		7113	-	504414HG1	7471A/B	19 Mar 2018 08:36:04	Hg
2.0 ug/L - 1		14110	-	504414HG1	7471A/B	19 Mar 2018 08:37:48	Hg
5.0 ug/L - 1		35900	-	504414HG1	7471A/B	19 Mar 2018 08:39:33	Hg
10.0 ug/L - 1		71300	-	504414HG1	7471A/B	19 Mar 2018 08:41:25	Hg
ICV - 1		35414	99.2% 4.9581	504414HG1	7471A/B	19 Mar 2018 08:43:23	Hg
ICB - 1		-388	-0.0654	504414HG1	7471A/B	19 Mar 2018 08:45:31	Hg
CCV - 1		36813	103.1% 5.1544	504414HG1	7471A/B	19 Mar 2018 08:47:29	Hg
CCB - 1		-367	-0.0624	504414HG1	7471A/B	19 Mar 2018 08:49:11	Hg
mb 460-504414/10-a - 1		-32	-0.0154	504414HG1	7471A/B	19 Mar 2018 08:51:10	Hg
lcssrm 460-504414/11-a@40 - 1		34667	4.8533	504414HG1	7471A/B	19 Mar 2018 08:52:52	Hg
460-152141-e-1-g - 1		27432	3.8381	504414HG1	7471A/B	19 Mar 2018 08:54:33	Hg
460-152141-e-1-h du - 1		25419	3.5557	504414HG1	7471A/B	19 Mar 2018 08:56:34	Hg
460-152141-e-1-i ms - 1		41615	5.828	504414HG1	7471A/B	19 Mar 2018 08:58:29	Hg
SD 460-152141-e-1-g@5 - 1		4783	0.660	504414HG1	7471A/B	19 Mar 2018 09:00:23	Hg
460-151850-b-5-q - 1		183	0.0148	504414HG1	7471A/B	19 Mar 2018 09:02:22	Hg
460-152141-e-2-d - 1		13288	1.853	504414HG1	7471A/B	19 Mar 2018 09:04:07	Hg
460-152048-e-8-g - 1		2074	0.280	504414HG1	7471A/B	19 Mar 2018 09:05:49	Hg
460-152048-e-9-e - 1		-84	-0.022	504414HG1	7471A/B	19 Mar 2018 09:07:38	Hg
CCV - 1		37508	105.0% 5.251	504414HG1	7471A/B	19 Mar 2018 09:09:23	Hg
CCB - 1		-340	-0.058	504414HG1	7471A/B	19 Mar 2018 09:11:04	Hg
460-152048-e-10-e - 1		0	-0.010	504414HG1	7471A/B	19 Mar 2018 09:13:04	Hg
460-152048-e-11-e - 1		2823	0.385	504414HG1	7471A/B	19 Mar 2018 09:14:07	Hg
460-152048-e-12-e - 1		2651	0.361	504414HG1	7471A/B	19 Mar 2018 09:15:51	Hg
460-152063-d-5-a - 1		12122	1.690	504414HG1	7471A/B	19 Mar 2018 09:17:34	Hg
460-152124-e-1-b - 1		-273	-0.049	504414HG1	7471A/B	19 Mar 2018 09:19:18	Hg
460-152071-a-1-a - 1		10738	1.495	504414HG1	7471A/B	19 Mar 2018 09:21:04	Hg
460-152121-h-1-a - 1		23264	3.253	504414HG1	7471A/B	19 Mar 2018 09:22:46	Hg
460-152122-g-2-a - 1		14548	2.030	504414HG1	7471A/B	19 Mar 2018 09:24:34	Hg
460-152126-g-2-b - 1		-41	-0.016	504414HG1	7471A/B	19 Mar 2018 09:26:31	Hg
460-152126-i-15-a - 1		258	0.025	504414HG1	7471A/B	19 Mar 2018 09:28:22	Hg
CCV - 1		36378	101.9% 5.093	504414HG1	7471A/B	19 Mar 2018 09:30:04	Hg
CCB - 1		-346	-0.059	504414HG1	7471A/B	19 Mar 2018 09:31:45	Hg
460-152129-h-1-e - 1		13382	1.866	504414HG1	7471A/B	19 Mar 2018 09:33:44	Hg
460-152103-g-1-g - 1		2851	0.389	504414HG1	7471A/B	19 Mar 2018 09:35:27	Hg
460-152103-g-2-c - 1		2310	0.313	504414HG1	7471A/B	19 Mar 2018 09:37:16	Hg
460-152103-f-3-c - 1		11497	1.602	504414HG1	7471A/B	19 Mar 2018 09:39:02	Hg
460-152103-g-4-b - 1		8152	1.132	504414HG1	7471A/B	19 Mar 2018 09:40:48	Hg
mb 460-504419/1-a - 1		-245	-0.045	504414HG1	7471A/B	19 Mar 2018 09:42:35	Hg
lcssrm 460-504419/2-a@40 - 1		33448	4.682	504414HG1	7471A/B	19 Mar 2018 09:44:20	Hg
460-152135-d-1-a - 1		2445	0.332	504414HG1	7471A/B	19 Mar 2018 09:46:01	Hg
460-152135-d-1-b du - 1		2701	0.368	504414HG1	7471A/B	19 Mar 2018 09:48:02	Hg
460-152135-d-1-c ms - 1		10120	1.409	504414HG1	7471A/B	19 Mar 2018 09:49:46	Hg
CCV - 1		35480	99.3% 4.967	504414HG1	7471A/B	19 Mar 2018 09:51:30	Hg
CCB - 1		-347	-0.059	504414HG1	7471A/B	19 Mar 2018 09:53:15	Hg
SD 460-152135-d-1-a@5 - 1		-14	-0.012	504414HG1	7471A/B	19 Mar 2018 09:55:15	Hg
460-152135-d-2-a - 1		76	-0.000	504414HG1	7471A/B	19 Mar 2018 09:56:57	Hg
460-152135-d-3-a - 1		22	-0.007	504414HG1	7471A/B	19 Mar 2018 09:58:40	Hg
460-152135-d-4-a - 1		51	-0.003	504414HG1	7471A/B	19 Mar 2018 10:00:22	Hg
460-152135-d-5-a - 1		1967	0.265	504414HG1	7471A/B	19 Mar 2018 10:02:05	Hg
460-152135-d-6-a - 1		1691	0.226	504414HG1	7471A/B	19 Mar 2018 10:03:49	Hg
460-152135-d-7-a - 1		855	0.109	504414HG1	7471A/B	19 Mar 2018 10:05:34	Hg
460-152135-d-8-a - 1		179	0.014	504414HG1	7471A/B	19 Mar 2018 10:07:17	Hg
460-152135-d-9-a - 1		921	0.118	504414HG1	7471A/B	19 Mar 2018 10:09:00	Hg
460-152135-d-10-a - 1		19	-0.008	504414HG1	7471A/B	19 Mar 2018 10:10:42	Hg
CCV - 1		36357	101.8% 5.090	504414HG1	7471A/B	19 Mar 2018 10:12:24	Hg
CCB - 1		-339	-0.058	504414HG1	7471A/B	19 Mar 2018 10:14:05	Hg
460-152135-d-11-a - 1		7	-0.009	504414HG1	7471A/B	19 Mar 2018 10:16:05	Hg
460-152135-d-12-a - 1		1559	0.207	504414HG1	7471A/B	19 Mar 2018 10:17:47	Hg
460-152135-d-13-a - 1		2634	0.358	504414HG1	7471A/B	19 Mar 2018 10:19:29	Hg
460-152135-d-14-a - 1		1099	0.143	504414HG1	7471A/B	19 Mar 2018 10:21:12	Hg
460-152135-d-15-a - 1		57	-0.002	504414HG1	7471A/B	19 Mar 2018 10:22:57	Hg
460-152135-d-16-a - 1		189	0.015	504414HG1	7471A/B	19 Mar 2018 10:24:41	Hg
460-152136-e-2-b - 1		798	0.101	504414HG1	7471A/B	19 Mar 2018 10:26:24	Hg
460-152161-e-3-f - 1		418	0.047	504414HG1	7471A/B	19 Mar 2018 10:28:07	Hg
460-152161-e-4-f - 1		16602	2.318	504414HG1	7471A/B	19 Mar 2018 10:29:50	Hg
460-152091-e-1-c - 1		2138	0.289	504414HG1	7471A/B	19 Mar 2018 10:31:33	Hg
CCV - 1		35293	98.8% 4.941	504414HG1	7471A/B	19 Mar 2018 10:33:28	Hg
CCB - 1		-314	-0.055	504414HG1	7471A/B	19 Mar 2018 10:35:11	Hg
mb 460-504421/1-a - 1		-12	-0.012	504414HG1	7471A/B	19 Mar 2018 10:37:12	Hg
lcssrm 460-504421/2-a@40 - 1		33728	4.721	504414HG1	7471A/B	19 Mar 2018 10:38:54	Hg
460-152130-d-4-b - 1		1476	0.196	504414HG1	7471A/B	19 Mar 2018 10:40:36	Hg
460-152130-d-4-c du - 1		1844	0.247	504414HG1	7471A/B	19 Mar 2018 10:42:38	Hg

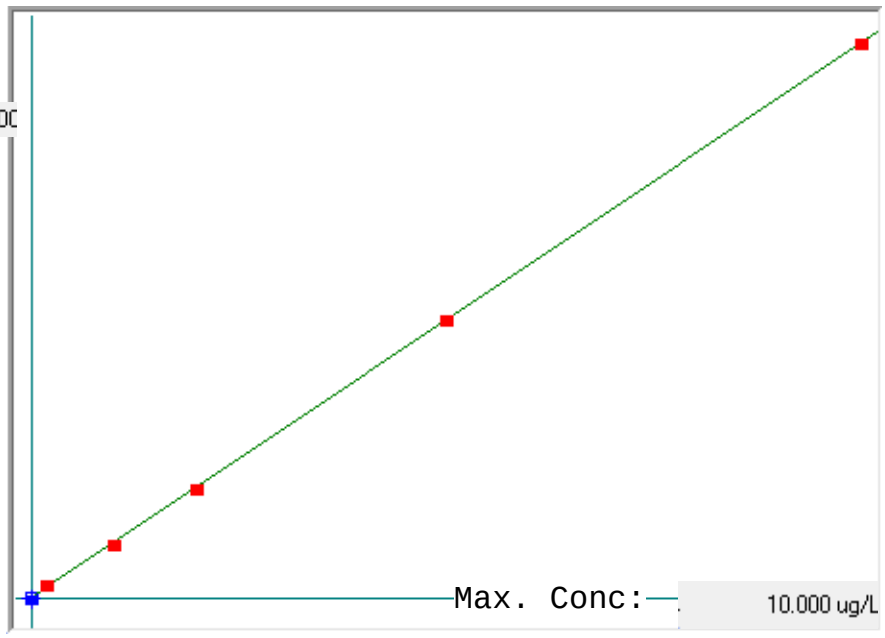
031918TSS

Method: 7471A/B Operator: Admin Date of Analysis: 19 Mar 2018 06:51:27

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
460-152130-d-4-d ms - 1		8878	1.2348	504414HG1	7471A/B	19 Mar 2018 10:44:22	Hg
SD 460-152130-d-4-b@5 - 1		-270	-0.0488	504414HG1	7471A/B	19 Mar 2018 10:46:05	Hg
460-152163-h-1-e - 1		8	-0.0098	504414HG1	7471A/B	19 Mar 2018 10:47:51	Hg
460-152133-d-1-a - 1		4724	0.6519	504414HG1	7471A/B	19 Mar 2018 10:49:34	Hg
460-152133-d-2-a - 1		9236	1.2850	504414HG1	7471A/B	19 Mar 2018 10:51:17	Hg
460-152133-d-3-a - 1		23104	3.2309	504414HG1	7471A/B	19 Mar 2018 10:53:03	Hg
CCV - 1		35826	100.3% 5.0159	504414HG1	7471A/B	19 Mar 2018 10:54:50	Hg
CCB - 1		-350	-0.0600	504414HG1	7471A/B	19 Mar 2018 10:56:43	Hg
460-152130-d-3-b - 1		6192	0.8579	504414HG1	7471A/B	19 Mar 2018 10:58:42	Hg
460-152130-d-9-b - 1		29998	4.1982	504414HG1	7471A/B	19 Mar 2018 11:00:24	Hg
460-151989-a-1-b - 1		4617	0.6369	504414HG1	7471A/B	19 Mar 2018 11:02:10	Hg
460-151989-a-2-b - 1		5344	0.7389	504414HG1	7471A/B	19 Mar 2018 11:04:08	Hg
460-151989-a-3-b - 1		9865	1.3733	504414HG1	7471A/B	19 Mar 2018 11:05:53	Hg
460-152022-d-2-e - 1		23904	3.3431	504414HG1	7471A/B	19 Mar 2018 11:07:38	Hg
460-152022-d-3-e - 1		47836	6.7011	504414HG1	7471A/B	19 Mar 2018 11:09:24	Hg
460-152022-d-4-e - 1		335	0.0361	504414HG1	7471A/B	19 Mar 2018 11:11:18	Hg
460-152048-e-8-g - 1		2283	0.3094	504414HG1	7471A/B	19 Mar 2018 11:13:20	Hg
460-152048-e-9-e - 1		2880	0.3932	504414HG1	7471A/B	19 Mar 2018 11:15:03	Hg
CCV - 1		35463	99.3% 4.9650	504414HG1	7471A/B	19 Mar 2018 11:16:49	Hg
CCB - 1		-334	-0.0578	504414HG1	7471A/B	19 Mar 2018 11:18:32	Hg
460-152048-e-10-e - 1		2243	0.3038	504414HG1	7471A/B	19 Mar 2018 11:20:32	Hg
CCV - 1		35345	99.0% 4.9484	504414HG1	7471A/B	19 Mar 2018 11:22:15	Hg
CCB - 1		-327	-0.0568	504414HG1	7471A/B	19 Mar 2018 11:23:58	Hg

7471A/B

Linear



A= 0.0000e+000

B= 1.4031e-004

C= -1.0916e-002

Rho= 0.9999797

Accept= Accepted

Accepted Date=

03/19/18 08:43

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Cal Blk	0.000	-0.009	-0.009	15	0.000	15				
0.2 ug/L	0.200	0.233	0.033	1739	0.0 %	1739				
1.0 ug/L	1.000	0.987	-0.013	7113	0.0 %	7113				
2.0 ug/L	2.000	1.969	-0.031	14110	0.0 %	14110				
5.0 ug/L	5.000	5.026	0.026	35900	0.0 %	35900				
10.0 ug/L	10.000	9.993	-0.007	71300	0.0 %	71300				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504339 Batch Start Date: 03/17/18 23:50 Batch Analyst: Esteban, Gared A

Batch Method: 3050B Batch End Date: 03/18/18 05:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00067	ME_LCSS_97 00007	
MB 460-504339/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-504339/2		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	50 mL		1.01 g	
460-152163-C-1 DU		3050B, 6010C	T	CALC NOT SET TO RUN	1.30 g	50 mL			
460-152163-C-1 MS		3050B, 6010C	T	CALC NOT SET TO RUN	1.32 g	50 mL	2 mL		
460-152136-E-2	Ash Pit	3050B, 6010C	T	CALC NOT SET TO RUN	1.33 g	50 mL			

Batch Notes	
Balance ID	#35
Filter Paper ID	09-790F
Hydrogen Peroxide ID	0000161767
Lot # of hydrochloric acid	0000186764
Logbook ID for diluted Nitric	1:1 HNO3 - MPR331
Lot # of Nitric Acid	0000185595
Hot Block ID	#8
Oven, Bath or Block Temperature 1	97 Uncorr 95 Corr Degrees C
Pipette/Syringe/Dispenser ID	#68
Thermometer ID	ICP-2 (CF -2)
Digestion Tube/Cup ID	J280899-5420 (50 ML Digi Tubes)

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504338 Batch Start Date: 03/17/18 23:05 Batch Analyst: Esteban, Gared A

Batch Method: 3010A Batch End Date: 03/18/18 03:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_ipmsSPK 00031			
MB 460-504338/1		3010A, 6020A		50 mL	50 mL				
LCS 460-504338/2		3010A, 6020A		50 mL	50 mL	0.25 mL			
460-152136-F-1	Recharge Basin	3010A, 6020A	T	50 mL	50 mL				
460-152136-F-1 DU	Recharge Basin	3010A, 6020A	T	50 mL	50 mL				
460-152136-F-1 MS	Recharge Basin	3010A, 6020A	T	50 mL	50 mL	0.25 mL			

Batch Notes	
Batch Comment	1:1 HCL MPR 342
Temperature - Corrected - Start	95 corr Deg. C
Digestion End Time	03/18/2018 01:30
Digestion Start Time	03/17/2018 23:05
Digestion Unit ID	#3
Nitric Acid ID	0000185595
Pipette/Syringe/Dispenser ID	#43
Analyst ID - Spike Analyst	GE
Thermometer ID	ICP 3 (CF -2)
Digestion Tube/Cup ID	J292625-4191 (100ml Digi Tube)
Temperature - Uncorrected - Start	97 uncorr Deg. C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504395 Batch Start Date: 03/18/18 19:00 Batch Analyst: Esteban, Gared A

Batch Method: FILTRATION Batch End Date: 03/18/18 19:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 460-504395/1		FILTRATION, 3010A, 6020A		50 mL	50 mL				
460-152136-D-1	Recharge Basin	FILTRATION, 3010A, 6020A	D	50 mL	50 mL				

Batch Notes	
Filter ID	J280912-20170407P936M-070 (0.45 micron)
Lot # of Nitric Acid	0000166089

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504514 Batch Start Date: 03/19/18 09:51 Batch Analyst: Patel, Purva H

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 460-504395/1-A		3010A, 6020A		10 mL	10 mL				
LCS 460-504514/2		3010A, 6020A		10 mL	10 mL				
460-152136-D-1-A	Recharge Basin	3010A, 6020A	D	10 mL	10 mL				
460-152136-D-1-A DU	Recharge Basin	3010A, 6020A	D	10 mL	10 mL				
460-152136-D-1-A MS	Recharge Basin	3010A, 6020A	D	10 mL	10 mL				

Batch Notes	
Batch Comment	Dissolve samples not digested.

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504532 Batch Start Date: 03/19/18 10:00 Batch Analyst: Sheikh, Razia B

Batch Method: FILTRATION Batch End Date: 03/19/18 13:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 460-504532/1		FILTRATION, 7470A, 7470A		50 mL	50 mL				
460-152136-D-1	Recharge Basin	FILTRATION, 7470A, 7470A	D	50 mL	50 mL				

Batch Notes	
Filter ID	J280912-20170407P936M-070 (0.45 micron)

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504533 Batch Start Date: 03/19/18 09:30 Batch Analyst: Sheikh, Razia B

Batch Method: 7470A Batch End Date: 03/19/18 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_DCAL-IN 02965	ME_DQCS-INT 02693		
MB 460-504533/1		7470A, 7470A		30 mL	30 mL				
LCS 460-504533/2		7470A, 7470A		30 mL	30 mL	0.3 mL			
460-151771-D-9 DU		7470A, 7470A	T	30 mL	30 mL				
460-151771-D-9 MS		7470A, 7470A	T	30 mL	30 mL	0.3 mL			
460-152136-F-1	Recharge Basin	7470A, 7470A	T	30 mL	30 mL				
ICV 460-504533/31		7470A, 7470A		30 mL	30 mL		1.5 mL		
CCV 460-504533/33		7470A, 7470A		30 mL	30 mL	1.5 mL			

Batch Notes	
Digestion End Time	03/19/2018 12:45
Digestion Start Time	03/19/2018 10:45
Digestion Unit ID	11,12
Sulfuric Acid Lot Number	0000179766
Nitric Acid ID	0000166089
Hydroxylamine ID	ME_NACLHYDHCL_00078
Potassium Persulfate ID	ME_PotPersSol_00040
Potassium Permanganate ID	ME_potPermSol_00073
Pipette/Syringe/Dispenser ID	86,80,87
Ending Temperature	95 Degrees C
Starting Temperature	95 Degrees C
Thermometer ID	prep-2(cf-2)
Digestion Tube/Cup ID	1707186
Temperature - Uncorrected - End	97 Degrees C
Temperature - Uncorrected - Start	97 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504535 Batch Start Date: 03/19/18 09:30 Batch Analyst: Sheikh, Razia B

Batch Method: 7470A Batch End Date: 03/19/18 13:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_DCAL-IN 02965			
MB 460-504532/1-A		7470A, 7470A		30 mL	30 mL				
LCS 460-504535/3		7470A, 7470A		30 mL	30 mL	0.3 mL			
460-151962-E-5 DU		7470A, 7470A	D	30 mL	30 mL				
460-151962-E-5 MS		7470A, 7470A	D	30 mL	30 mL	0.3 mL			
460-152136-D-1-E	Recharge Basin	7470A, 7470A	D	30 mL	30 mL				

Batch Notes	
Digestion End Time	03/19/2018 14:15
Digestion Start Time	03/19/2018 12:15
Digestion Unit ID	11,12
Sulfuric Acid Lot Number	0000179766
Nitric Acid ID	0000166089
Hydroxylamine ID	ME_NACLHYDHCL_00078
Potassium Persulfate ID	ME_PotPersSol_00040
Potassium Permanganate ID	ME_potPermSol_00073
Pipette/Syringe/Dispenser ID	86,80,87
Ending Temperature	95 Degrees C
Starting Temperature	95 Degrees C
Thermometer ID	prep-2(cf-2)
Digestion Tube/Cup ID	1707186
Temperature - Uncorrected - End	97 Degrees C
Temperature - Uncorrected - Start	97 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504419 Batch Start Date: 03/19/18 04:20 Batch Analyst: Staib, Thomas

Batch Method: 7471B Batch End Date: 03/19/18 07:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_DCAL-IN 02965	ME_LCSS_97 00007		
MB 460-504419/1		7471B, 7471B		0.60 g	50 mL				
LCSSRM 460-504419/2		7471B, 7471B		0.60 g	50 mL		0.6 g		
460-152135-D-1 DU		7471B, 7471B	T	0.65 g	50 mL				
460-152135-D-1 MS		7471B, 7471B	T	0.65 g	50 mL	0.5 mL			
460-152136-E-2	Ash Pit	7471B, 7471B	T	0.62 g	50 mL				

Batch Notes	
Balance ID	#33
Batch Comment	ME_10%HCl_00069
Temperature - Corrected - End	95 Corr Degrees C
Temperature - Corrected - Start	95 Corr Degrees C
Digestion End Time	03/19/2018 06:20
Digestion Start Time	03/19/2018 04:20
Digestion Unit ID	#12
Hydrochloric Acid ID	0000184873
Nitric Acid ID	0000185595
Hydroxylamine ID	ME_NAClHYDlHCl_00081
Potassium Permanganate ID	ME_PotPermSol_00076
Pipette/Syringe/Dispenser ID	#61
Analyst ID - Spike Analyst	Thomas Staib
Thermometer ID	Prep-2 (CF-3)
Digestion Tube/Cup ID	1707186 (50ML Digi Tubes)
Temperature - Uncorrected - End	98 Uncorr Degrees C
Temperature - Uncorrected - Start	98 Uncorr Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG No.:

Project: Suffolk County Firematics Site

Client Sample ID	Lab Sample ID
Recharge Basin	460-152136-1
Ash Pit	460-152136-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: Recharge Basin
Lab Sample ID: 460-152136-1
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG ID.:
Matrix: Water
Date Sampled: 03/16/2018 11:00
Reporting Basis: WET
Date Received: 03/16/2018 20:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	2.0	10.0	2.0	ug/L	U		1	9012B
18540-29-9	Cr (VI)	2.7	10.0	2.7	ug/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: Ash Pit
Lab Sample ID: 460-152136-2
Lab Name: TestAmerica Edison
Job No.: 460-152136-1
SDG ID.:
Matrix: Solid
Date Sampled: 03/16/2018 09:45
Reporting Basis: DRY
Date Received: 03/16/2018 20:20
% Solids: 30.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	2.1	0.77	0.20	mg/Kg			1	9012B
18540-29-9	Cr (VI)	1.8	6.8	1.8	mg/Kg	U		1	7196A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Analyst: RAK Batch Start Date: 03/22/2018

Reporting Units: mg/L Analytical Batch No.: 505233

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	09:17	Cyanide, Total	0.209	0.200	105	85-115		WTcn6ppm_ICV_00059
11	ICB	09:17	Cyanide, Total	0.0020				U	
32	CCV	09:37	Cyanide, Total	0.208	0.200	104	85-115		WTcn6ppm_Pri_00079
33	CCB	09:40	Cyanide, Total	0.0020				U	
44	CCV	09:50	Cyanide, Total	0.209	0.200	105	85-115		WTcn6ppm_Pri_00079
45	CCB	09:52	Cyanide, Total	0.0020				U	
69	CCB	10:17	Cyanide, Total	0.0020				U	
80	CCV	10:26	Cyanide, Total	0.210	0.200	105	85-115		WTcn6ppm_Pri_00079
81	CCB	10:29	Cyanide, Total	0.0020				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Analyst: HTV Batch Start Date: 03/23/2018

Reporting Units: mg/L Analytical Batch No.: 505599

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	CCV	10:51	Cyanide, Total	0.197	0.200	99	85-115		WTcn6ppm_Pri_00079
9	CCB	10:54	Cyanide, Total	0.0020				U	
10	ICV	10:55	Cyanide, Total	0.185	0.200	93	85-115		WTcn6ppm_ICV_00059
11	ICB	10:56	Cyanide, Total	0.0020				U	
20	CCV	11:04	Cyanide, Total	0.196	0.200	98	85-115		WTcn6ppm_Pri_00079
21	CCB	11:06	Cyanide, Total	0.0020				U	
32	CCV	11:16	Cyanide, Total	0.197	0.200	99	85-115		WTcn6ppm_Pri_00079
33	CCB	11:19	Cyanide, Total	0.0020				U	
44	CCV	11:28	Cyanide, Total	0.197	0.200	99	85-115		WTcn6ppm_Pri_00079
45	CCB	11:31	Cyanide, Total	0.0020				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Analyst: KYN Batch Start Date: 03/17/2018

Reporting Units: ug/L Analytical Batch No.: 504258

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	04:50	Cr (VI)	75.65	75.0	101	90-110		WThcrIM4_00057
8	ICB	04:50	Cr (VI)	2.7				U	
17	CCV	05:02	Cr (VI)	73.42	75.0	98	90-110		WThcrIM4_00057
18	CCB	05:02	Cr (VI)	2.7				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Analyst: RAK Batch Start Date: 03/20/2018

Reporting Units: ug/L Analytical Batch No.: 504841

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	13:45	Cr (VI)	517.1	500	103	90-110		WThcrIM3_00044
8	ICB	13:45	Cr (VI)	2.7				U	
19	CCV	14:00	Cr (VI)	514.7	500	103	90-110		WThcrIM3_00044
20	CCB	14:00	Cr (VI)	2.7				U	
31	CCV	15:00	Cr (VI)	512.3	500	102	90-110		WThcrIM3_00044
32	CCB	15:00	Cr (VI)	2.7				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 504258	Date: 03/17/2018 04:50						
7196A	MB 460-504258/9	Cr (VI)	2.7	U	ug/L	10.0	1
Batch ID: 504841	Date: 03/20/2018 13:45	Prep Batch: 504763	Date: 03/20/2018 09:41				
7196A	MB 460-504763/1-A	Cr (VI)	0.52	U	mg/Kg	2.0	1
Batch ID: 505233	Date: 03/22/2018 09:48	Prep Batch: 505037	Date: 03/21/2018 09:37				
9012B	MB 460-505037/1-A	Cyanide, Total	0.063	U	mg/Kg	0.24	1
Batch ID: 505599	Date: 03/23/2018 10:57	Prep Batch: 505250	Date: 03/22/2018 12:46				
9012B	MB 460-505250/1-A	Cyanide, Total	2.0	U	ug/L	10.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504258 Date: 03/17/2018 05:02											
7196A	460-152125-E-2	Cr (VI)	2.7	U	ug/L						
7196A	460-152125-E-2 MS	Cr (VI)	33.39		ug/L	30.0	111	85-115			
Batch ID: 505599 Date: 03/23/2018 11:13 Prep Batch: 505250 Date: 03/22/2018 12:46											
9012B	460-152323-H-9-B	Cyanide, Total	2.0	J	ug/L						F1
9012B	460-152323-H-9-B MS	Cyanide, Total	225.0		ug/L	200	112	90-110			F1

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 505599	Date: 03/23/2018 11:14		Prep Batch: 505250		Date: 03/22/2018 12:46						
9012B	460-152323-H-9-C MSD	Cyanide, Total	202.0		ug/L	200	100	90-110	11	20	

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

FORM V-IN

5-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504841	Date: 03/20/2018 14:00		Prep Batch: 504763		Date: 03/20/2018 09:41						
7196A	460-152132-D-4-C	Cr (VI)	0.57	U	mg/Kg						
7196A	460-152132-D-4-C PDS	Cr (VI)	46.71		mg/Kg	44.1	106	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

5-IN
MATRIX SPIKE SOLUBLE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504841 Date: 03/20/2018 13:45			Prep Batch: 504763		Date: 03/20/2018 09:41						
7196A	460-152132-D-4-E	Cr (VI)	0.57	U	mg/Kg						
7196A	460-152132-D-4-E MSS	Cr (VI)	37.99		mg/Kg	44.1	86	75-125			
Batch ID: 504841 Date: 03/20/2018 13:45			Prep Batch: 504763		Date: 03/20/2018 09:41						
7196A	460-152132-D-4-F	Cr (VI)	0.57	U	mg/Kg						
7196A	460-152132-D-4-F MSI	Cr (VI)	737.7		mg/Kg	780	95	75-125			

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 504841 Date: 03/20/2018 13:45		Prep Batch: 504763	Date: 03/20/2018 09:41					
7196A		460-152132-D-4-D	Cr (VI)	0.57	mg/Kg			U
7196A		460-152132-D-4-D DU	Cr (VI)	0.57	mg/Kg	NC	20	U

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

FORM VI-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 504258 Date: 03/17/2018 05:02								
7196A		460-152125-E-2	Cr (VI)	2.7	ug/L			U
7196A		460-152125-E-2 DU	Cr (VI)	2.7	ug/L	NC	20	U

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 505599	Date: 03/23/2018 10:58		Prep Batch: 505250		Date: 03/22/2018 12:46						
					LCS Source: WTcnCmplex-IM_00059						
9012B	LCS 460-505250/2-A	Cyanide, Total	109.0		ug/L	100	109	85-115			

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

FORM VIIA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504841	Date: 03/20/2018 13:45		Prep Batch: 504763			Date: 03/20/2018 09:41					
						LCS Source: WThcrsLCS_00099					
7196A	LCSSRM 460-504763/2-A	Cr (VI)	14.85		mg/Kg	15.8	93.9	84.2-11		4.4	
Batch ID: 505233	Date: 03/22/2018 09:49		Prep Batch: 505037			Date: 03/21/2018 09:37					
						LCS Source: WTcyanideSO_00024					
9012B	LCSSRM 460-505037/2-A ^20	Cyanide, Total	58.56		mg/Kg	157	37.3	23.5-11		0.2	

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

FORM VIIA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504258	Date: 03/17/2018 04:50										
						LCS Source: WThcrwLCS_00066					
7196A	LCSSRM 460-504258/10	Cr (VI)	71.20		ug/L	72.0	98.9	81.7-117.2			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE INSOLUBLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 504841	Date: 03/20/2018 13:45		Prep Batch: 504763		Date: 03/20/2018 09:41						
					LCS Source: WThcrPbCr_00005						
7196A	LCSI 460-504763/3-A	Cr (VI)	684.3		mg/Kg	708	97	80-120			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: Lachat3

Method: 9012B MDL Date: 09/27/2017 16:16

Prep Method: 9012B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Cyanide, Total		0.24	0.063

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: Lachat3

Method: 9012B XMDL Date: 08/15/2016 11:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: Lachat3

Method: 9012B MDL Date: 08/15/2016 12:01

Prep Method: 9012B

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: Lachat3

Method: 9012B XMDL Date: 08/15/2016 12:01

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: WetHexSpec

Method: 7196A MDL Date: 12/13/2017 09:14

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cr (VI)		10	2.74

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Water Instrument ID: WetHexSpec

Method: 7196A XMDL Date: 12/13/2017 09:15

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cr (VI)		10	2.74

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: WetHexSpec

Method: 7196A MDL Date: 12/13/2017 09:18

Prep Method: 3060A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Cr (VI)		2	0.516

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: WetHexSpec

Method: 7196A XMDL Date: 12/13/2017 09:19

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cr (VI)		10	2.74

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-152136-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-505037/1-A	03/21/2018 09:37	505037	0.25		6.0
LCSSRM 460-505037/2-A ^20	03/21/2018 09:37	505037	0.25		6.0
460-152136-2	03/21/2018 09:37	505037	0.26		6.0

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-505250/1-A	03/22/2018 12:46	505250		6	6
LCS 460-505250/2-A	03/22/2018 12:46	505250		6	6
460-152323-H-9-B MS	03/22/2018 12:46	505250		6	6
460-152323-H-9-C MSD	03/22/2018 12:46	505250		6	6
460-152136-1	03/22/2018 12:46	505250		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Prep Method: 3060A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-504763/1-A	03/20/2018 09:41	504763	2.50		100
LCSSRM 460-504763/2-A	03/20/2018 09:41	504763	2.50		100
LCSI 460-504763/3-A	03/20/2018 09:41	504763	2.50		100
460-152132-D-4-D DU	03/20/2018 09:41	504763	2.50		100
460-152132-D-4-E MSS	03/20/2018 09:41	504763	2.50		100
460-152132-D-4-F MSI	03/20/2018 09:41	504763	2.50		100
460-152136-2	03/20/2018 09:41	504763	2.46		100

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: Lachat3 Method: 9012B

Start Date: 03/22/2018 09:07 End Date: 03/22/2018 11:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				CN																			
IC 460-504989/33-A			09:07	X																			
IC 460-504989/32-A			09:08	X																			
IC 460-504989/31-A			09:09	X																			
IC 460-504989/30-A			09:09	X																			
IC 460-504989/29-A			09:10	X																			
IC 460-504989/28-A			09:11	X																			
IC 460-504989/27-A			09:12	X																			
CCV 460-504989/34-A			09:13																				
CCB 460-505233/9			09:16																				
ICV 460-504989/37-A	1		09:17	X																			
ICB 460-505233/11	1		09:17	X																			
ZZZZZZ			09:18																				
ZZZZZZ			09:19																				
ZZZZZZ			09:20																				
ZZZZZZ			09:21																				
ZZZZZZ			09:22																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:24																				
CCV 460-504989/34-A			09:25																				
CCB 460-505233/21			09:28																				
ZZZZZZ			09:29																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:31																				
ZZZZZZ			09:32																				
ZZZZZZ			09:33																				
ZZZZZZ			09:34																				
ZZZZZZ			09:35																				
ZZZZZZ			09:36																				
ZZZZZZ			09:37																				
CCV 460-504989/34-A	1		09:37	X																			
CCB 460-505233/33	1		09:40	X																			
ZZZZZZ			09:41																				
ZZZZZZ			09:42																				
ZZZZZZ			09:43																				
ZZZZZZ			09:44																				
ZZZZZZ			09:44																				
ZZZZZZ			09:45																				
ZZZZZZ			09:46																				
ZZZZZZ			09:47																				
MB 460-505037/1-A	1	T	09:48	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: Lachat3 Method: 9012B

Start Date: 03/22/2018 09:07 End Date: 03/22/2018 11:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
LCSSRM 460-505037/2-A ^20	20	T	09:49	X																			
CCV 460-504989/34-A	1		09:50	X																			
CCB 460-505233/45	1		09:52	X																			
ZZZZZZ			09:53																				
ZZZZZZ			09:54																				
ZZZZZZ			09:55																				
ZZZZZZ			09:56																				
ZZZZZZ			09:57																				
ZZZZZZ			09:58																				
ZZZZZZ			09:58																				
ZZZZZZ			09:59																				
ZZZZZZ			10:00																				
ZZZZZZ			10:01																				
CCV 460-504989/34-A			10:02																				
CCB 460-505233/57			10:05																				
ZZZZZZ			10:05																				
ZZZZZZ			10:06																				
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
ZZZZZZ			10:09																				
ZZZZZZ			10:10																				
ZZZZZZ			10:11																				
ZZZZZZ			10:12																				
ZZZZZZ			10:12																				
ZZZZZZ			10:13																				
CCV 460-504989/34-A			10:14																				
CCB 460-505233/69	1		10:17	X																			
460-152136-2	1	T	10:18	X																			
ZZZZZZ			10:19																				
ZZZZZZ			10:19																				
ZZZZZZ			10:20																				
ZZZZZZ			10:21																				
ZZZZZZ			10:22																				
ZZZZZZ			10:23																				
ZZZZZZ			10:24																				
ZZZZZZ			10:25																				
ZZZZZZ			10:26																				
CCV 460-504989/34-A	1		10:26	X																			
CCB 460-505233/81	1		10:29	X																			
ZZZZZZ			10:30																				
ZZZZZZ			10:31																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: Lachat3 Method: 9012B

Start Date: 03/22/2018 09:07 End Date: 03/22/2018 11:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			10:32																				
ZZZZZZ			10:33																				
ZZZZZZ			10:33																				
ZZZZZZ			10:34																				
ZZZZZZ			10:35																				
ZZZZZZ			10:36																				
ZZZZZZ			10:37																				
ZZZZZZ			10:38																				
CCV 460-504989/34-A			10:39																				
CCB 460-505233/93			10:41																				
ZZZZZZ			10:42																				
ZZZZZZ			10:43																				
ZZZZZZ			10:44																				
ZZZZZZ			10:45																				
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:47																				
ZZZZZZ			10:48																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
CCV 460-505233/104			10:51																				
CCB 460-505233/105			10:54																				
ZZZZZZ			10:54																				
ZZZZZZ			10:55																				
ZZZZZZ			10:56																				
ZZZZZZ			10:57																				
ZZZZZZ			10:58																				
ZZZZZZ			10:59																				
ZZZZZZ			11:00																				
CCV 460-505233/113			11:02																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: Lachat3 Method: 9012B

Start Date: 03/23/2018 10:45 End Date: 03/23/2018 11:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				CN																			
IC 460-505250/27-A			10:45	X																			
IC 460-505250/28-A			10:46	X																			
IC 460-505250/29-A			10:47	X																			
IC 460-505250/30-A			10:48	X																			
IC 460-505250/31-A			10:49	X																			
IC 460-505250/32-A			10:50	X																			
IC 460-505250/33-A			10:51	X																			
CCV 460-505250/34-A	1		10:51	X																			
CCB 460-505599/9	1		10:54	X																			
ICV 460-505250/38-A	1		10:55	X																			
ICB 460-505599/11	1		10:56	X																			
MB 460-505250/1-A	1	T	10:57	X																			
LCS 460-505250/2-A	1	T	10:58	X																			
ZZZZZZ			10:58																				
ZZZZZZ			10:59																				
ZZZZZZ			11:00																				
ZZZZZZ			11:01																				
ZZZZZZ			11:02																				
ZZZZZZ			11:03																				
CCV 460-505250/34-A	1		11:04	X																			
CCB 460-505599/21	1		11:06	X																			
ZZZZZZ			11:07																				
ZZZZZZ			11:08																				
ZZZZZZ			11:09																				
ZZZZZZ			11:10																				
ZZZZZZ			11:11																				
ZZZZZZ			11:12																				
ZZZZZZ			11:12																				
460-152323-H-9-B MS	1	T	11:13	X																			
460-152323-H-9-C MSD	1	T	11:14	X																			
ZZZZZZ			11:15																				
CCV 460-505250/34-A	1		11:16	X																			
CCB 460-505599/33	1		11:19	X																			
ZZZZZZ			11:19																				
ZZZZZZ			11:20																				
ZZZZZZ			11:21																				
ZZZZZZ			11:22																				
ZZZZZZ			11:23																				
ZZZZZZ			11:24																				
ZZZZZZ			11:25																				
460-152136-1	1	T	11:26	X																			
ZZZZZZ			11:26																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: Lachat3 Method: 9012B

Start Date: 03/23/2018 10:45 End Date: 03/23/2018 11:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			11:27																				
CCV 460-505250/34-A	1		11:28	X																			
CCB 460-505599/45	1		11:31	X																			
ZZZZZZ			11:32																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:34																				
ZZZZZZ			11:35																				
ZZZZZZ			11:36																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
CCV 460-505250/34-A			11:40																				
CCB 460-505599/57			11:43																				
ZZZZZZ			11:44																				
ZZZZZZ			11:45																				
ZZZZZZ			11:46																				
ZZZZZZ			11:46																				
ZZZZZZ			11:47																				
ZZZZZZ			11:48																				
ZZZZZZ			11:49																				
ZZZZZZ			11:50																				
ZZZZZZ			11:53																				
CCV 460-505250/36-A			11:53																				
CCB 460-505599/68			11:56																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: WetHexSpec Method: 7196A

Start Date: 03/17/2018 04:50 End Date: 03/17/2018 05:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
IC 460-504258/1			04:50	X																			
IC 460-504258/2			04:50	X																			
IC 460-504258/3			04:50	X																			
IC 460-504258/4			04:50	X																			
IC 460-504258/5			04:50	X																			
IC 460-504258/6			04:50	X																			
ICV 460-504258/7	1		04:50	X																			
ICB 460-504258/8	1		04:50	X																			
MB 460-504258/9	1	T	04:50	X																			
LCSSRM 460-504258/10	1	T	04:50	X																			
460-152136-1	1	T	05:02	X																			
ZZZZZZ			05:02																				
ZZZZZZ			05:02																				
ZZZZZZ			05:02																				
460-152125-E-2 DU	1	T	05:02	X																			
460-152125-E-2 MS	1	T	05:02	X																			
CCV 460-504258/17	1		05:02	X																			
CCB 460-504258/18	1		05:02	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: WetHexSpec Method: 7196A

Start Date: 03/20/2018 13:45 End Date: 03/20/2018 15:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
IC 460-504841/1			13:45	X																			
IC 460-504841/2			13:45	X																			
IC 460-504841/3			13:45	X																			
IC 460-504841/4			13:45	X																			
IC 460-504841/5			13:45	X																			
IC 460-504841/6			13:45	X																			
ICV 460-504841/7	1		13:45	X																			
ICB 460-504841/8	1		13:45	X																			
MB 460-504763/1-A	1	T	13:45	X																			
LCSSRM 460-504763/2-A	1	T	13:45	X																			
LCSI 460-504763/3-A	50	T	13:45	X																			
ZZZZZZ			13:45																				
ZZZZZZ			13:45																				
460-152132-D-4-D DU	1	T	13:45	X																			
460-152132-D-4-E MSS	1	T	13:45	X																			
460-152132-D-4-F MSI	50	T	13:45	X																			
460-152132-D-4-C PDS	1	T	14:00	X																			
ZZZZZZ			14:00																				
CCV 460-504841/19	1		14:00	X																			
CCB 460-504841/20	1		14:00	X																			
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
460-152136-2	1	T	15:00	X																			
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
CCV 460-504841/31	1		15:00	X																			
CCB 460-504841/32	1		15:00	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/17/2018 06:50 End Date: 03/17/2018 06:50

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
460-152136-2	1	T	06:50	X	X																			
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
ZZZZZZ			06:50																					
460-152103-F-3 DU	1	T	06:50	X	X																			

Prep Types

T = Total/NA

Original Run Filename: OM_3-22-2018_09-06-20AM.OMN Created: 3/22/2018 9:06:20 AM
Original Run Author's Signature: [EdiLachat]
Current Run Filename: OM_3-22-2018_09-06-20AM.OMN Last Modified: 3/22/2018 11:06:22 AM
Current Run Author's Signature: [EdiLachat]
Description: Default New Run

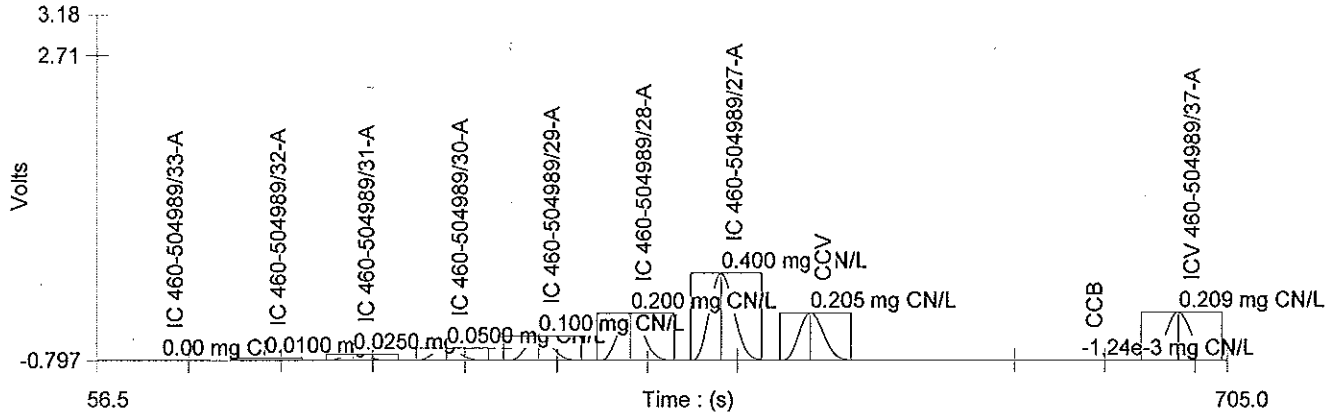
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg CN/L)	Channel 1 Cyanide Area (V.s)
IC 460-504989/33-A	1	1	0.00	0.0290
IC 460-504989/32-A	1	2	0.0100	0.508
IC 460-504989/31-A	1	3	0.0250	1.19
IC 460-504989/30-A	1	4	0.0500	2.32
IC 460-504989/29-A	1	5	0.100	4.61
IC 460-504989/28-A	1	6	0.200	8.82
IC 460-504989/27-A	1	7	0.400	16.5
CCV	1	S8	0.205	8.84
Known Conc:			0.200	
DQM Test: > + Percent Relative Difference				
Result:			2.5 < 10.0	
Message			Passed ccv	
Action			Continue	
DQM Test: < - Percent Relative Difference				
Result:			2.5 > -10.0	
Message			CCV Passed	
Action			Continue	
Calibration:			Table/Fig. : 1	
CCB	1	S9	-1.24e-3	0.0291
Known Conc:			0.00	
ICV 460-504989/37-A	1	8	0.209	9.03
ICB	1	9	-9.40e-4	0.0420
MB 460-504989/1-A	1	10	-5.94e-4	0.0568
LCS 460-504989/2	1	11	0.124	5.39
460-151776-J-1-A	1	12	3.41e-3	0.228
460-151776-J-1-B MS	1	13	0.239	10.3
460-151776-J-1-C MSD	1	14	0.230	9.93
460-151776-J-2-A	1	15	6.13e-3	0.344
460-151776-J-3-A	1	16	5.94e-3	0.336
460-151776-I-4-A	1	17	-1.28e-4	0.0767
CCV	1	S8	0.208	8.97
Known Conc:			0.200	
DQM Test: > + Percent Relative Difference				
Result:			4.0 < 10.0	
Message			Passed ccv	
Action			Continue	
DQM Test: < - Percent Relative Difference				
Result:			4.0 > -10.0	
Message			CCV Passed	
Action			Continue	
CCB	1	S9	-1.30e-3	0.0268
Known Conc:			0.00	
460-151780-H-2-A	1	18	-2.20e-4	0.0728
460-151975-N-1-A	1	19	8.79e-3	0.458
460-151975-H-2-A	1	20	-1.55e-5	0.0816
460-151975-H-3-A	1	21	4.28e-4	0.101
460-152067-A-1-A	1	22	-1.61e-4	0.0753
460-152067-A-2-A	1	23	2.35e-4	0.0922
460-152067-A-3-A	1	24	1.98e-4	0.0907
460-152067-A-3-B MS	1	25	0.249	10.7
460-152067-A-3-C MSD	1	26	0.241	10.4
460-152070-O-1-A	1	27	0.0124	0.614
CCV	1	S8	0.208	8.98
Known Conc:			0.200	
DQM Test: > + Percent Relative Difference				
Result:			4.2 < 10.0	
Message			Passed ccv	
Action			Continue	

DQM Test: < - Percent Relative Difference				
		Result:	4.2 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.21e-3	0.0303
		Known Conc:	0.00	
460-152070-N-2-A	1	28	3.55e-3	0.234
460-152070-N-3-A	1	29	8.90e-4	0.120
460-152070-N-4-A	1	30	-7.09e-4	0.0519
460-152125-F-1-A	1	31	1.35e-3	0.140
460-152125-F-2-A	1	32	9.86e-4	0.124
460-152125-E-3-A	1	33	1.16e-3	0.132
460-152131-G-3-A	1	34	0.0251	1.16
460-152131-G-4-A	1	35	0.0341	1.54
MB 460-505037/1-A	1	36	2.43e-4	0.0926
LCSSRM 460-505037/2-A@20	1	37	0.122	5.30
CCV	1	S8	0.209	9.01
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	4.5 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	4.5 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.42e-3	0.0215
		Known Conc:	0.00	
460-151839-A-1-U	1	38	0.0688	3.02
460-151839-A-1-V MS	1	39	0.227	9.80
460-151839-A-1-W MSD	1	40	0.242	10.4
460-151850-B-5-Z	1	41	7.92e-3	0.421
460-151941-A-5-M	1	42	2.89e-3	0.206
460-151943-A-5-M	1	43	0.0162	0.775
460-151944-B-5-M	1	44	9.27e-4	0.122
460-152103-G-1-I	1	45	1.75e-3	0.157
460-152103-E-2-F	1	46	6.49e-3	0.360
460-152103-E-3-B	1	47	9.55e-3	0.490
CCV	1	S8	0.209	9.01
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	4.5 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	4.5 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.16e-3	0.0325
		Known Conc:	0.00	
460-152103-G-4-D	1	48	2.78e-3	0.201
460-152119-A-6-G	1	49	4.40e-3	0.270
460-152215-F-6-E	1	50	1.08e-3	0.128
460-152215-F-6-F MS	1	51	0.224	9.65
460-152215-F-6-G MSD	1	52	0.523	22.4
460-152215-E-1-G	1	53	6.78e-3	0.372
460-152215-E-2-E	1	54	1.13e-3	0.130
460-152215-E-3-E	1	55	4.09e-3	0.257
460-152215-F-4-G	1	56	2.30e-3	0.180
460-152215-F-5-E	1	57	8.50e-3	0.445
CCV	1	S8	0.209	9.02
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	4.5 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	4.5 > -10.0	

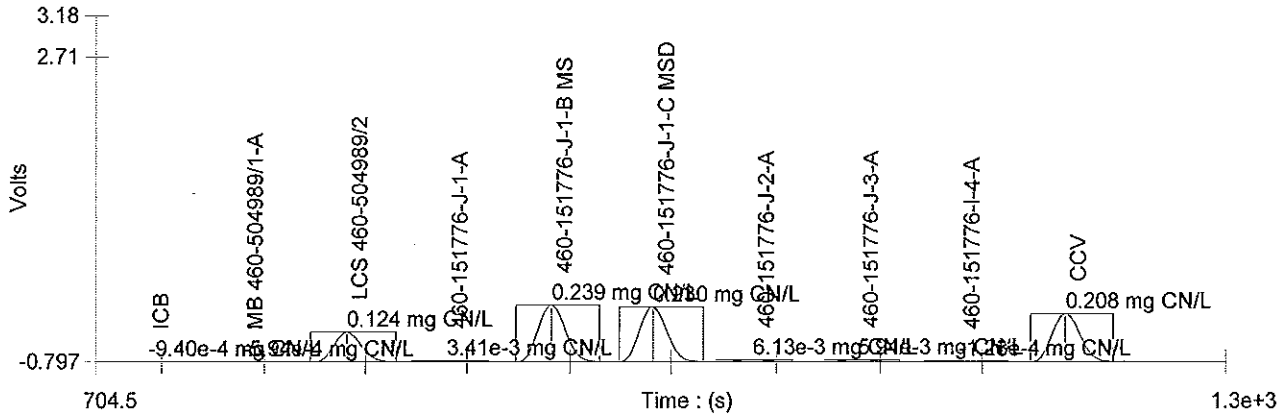
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.28e-3	0.0273
		Known Conc:	0.00	
460-152136-E-2-F	1	58	0.0278	1.27
460-152203-D-2-F	1	59	0.0183	0.865
460-152204-E-1-F	1	60	5.29e-3	0.308
460-152205-E-5-D	1	61	0.0110	0.552
MB 460-505075/1-A	1	62	-3.75e-4	0.0662
LCS 460-505075/2-A	1	11	0.126	5.45
720-85338-D-1-A	1	64	0.0165	0.788
720-85338-D-1-B MS	1	65	0.278	12.0
720-85338-D-1-C MSD	1	66	0.285	12.3
720-85338-J-2-A	1	67	1.50e-3	0.146
CCV	1	S8	0.210	9.05
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	5.0 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	5.0 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.43e-3	0.0209
		Known Conc:	0.00	
720-85338-K-3-A	1	68	2.74e-3	0.199
720-85339-K-1-A	1	69	3.82e-3	0.246
720-85339-K-2-A	1	70	5.99e-3	0.338
720-85339-K-3-A	1	71	3.40e-3	0.227
720-85339-K-4-A	1	72	4.56e-3	0.277
720-85339-K-5-A	1	73	-5.02e-4	0.0607
720-85339-K-6-A	1	74	0.0140	0.678
720-85339-J-7-A	1	75	7.76e-3	0.414
720-85362-J-1-A	1	76	1.26	53.7
720-85362-J-1-B MS	1	77	1.36	58.1
CCV	1	S8	0.212	9.16
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	6.2 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	6.2 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.09e-3	0.0355
		Known Conc:	0.00	
720-85362-J-1-C MSD	1	78	1.31	55.9
720-85362-I-3-A	1	79	0.194	8.39
720-85362-I-4-A	1	80	0.0251	1.15
720-85362-I-5-A	1	81	-3.43e-4	0.0676
720-85362-I-6-A	1	82	6.28e-3	0.350
720-85362-I-7-A	1	83	5.45e-3	0.315
720-85362-I-8-A	1	84	3.71e-3	0.241
720-85362-I-9-A	1	85	6.71e-3	0.369
460-152232-F-1-A	1	86	2.18e-4	0.0915
460-152232-F-2-A	1	87	7.96e-4	0.116
CCV	1	S8	0.212	9.13
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	5.9 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	5.9 > -10.0	
		Message	CCV Passed	
		Action	Continue	

CCB	1	S9	-1.32e-3	0.0259
		Known Conc:	0.00	
460-152048-E-11-C	1	88	0.264	11.4
460-152048-E-12-C	1	89	0.178	7.70
460-152022-D-1-D	1	90	0.210	9.07
460-152022-D-2-C	1	91	0.148	6.39
460-152022-D-3-C	1	92	0.167	7.22
460-151444-G-8-H	1	94	0.0881	3.85
460-152215-F-6-G MSD@2	1	65	0.279	12.0
CCV	1	S8	0.143	6.20
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	-28.4 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	-28.4 < -10.0	
		Message	CCV Failed	
		Action	User Decides	

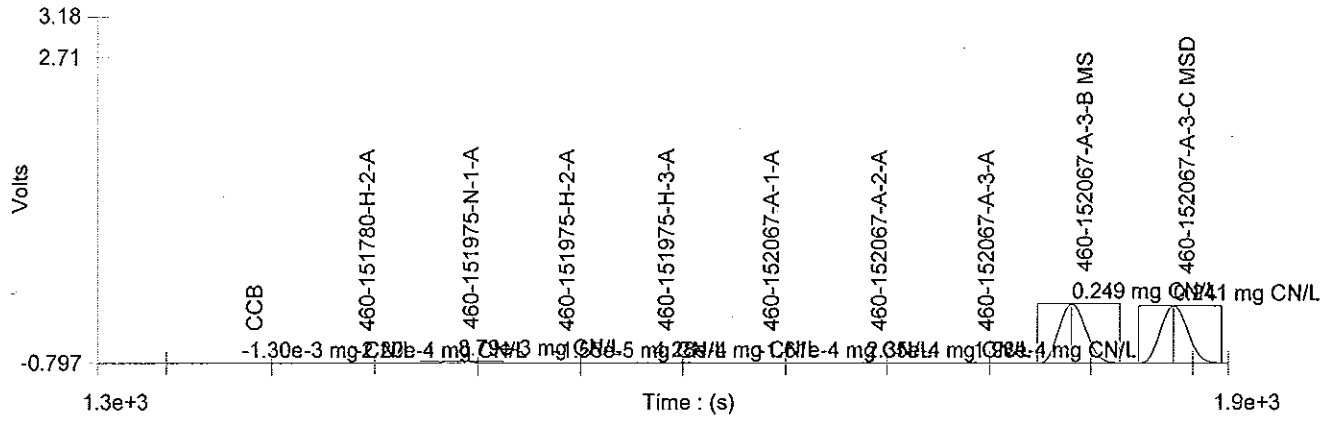
Channel 1 (Cyanide) - Set: 1 / 12



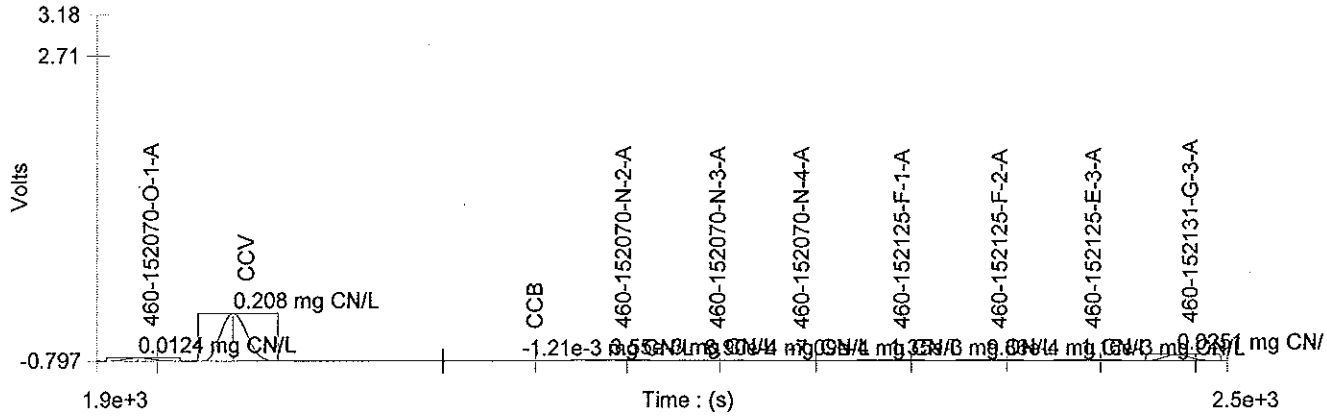
Channel 1 (Cyanide) - Set: 2 / 12



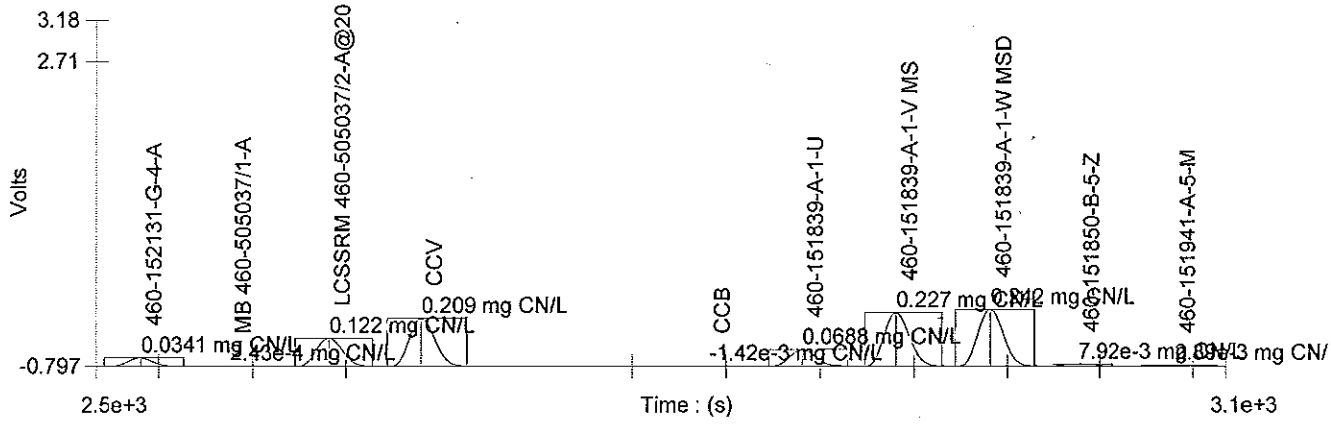
Channel 1 (Cyanide) - Set: 3 / 12



Channel 1 (Cyanide) - Set: 4 / 12



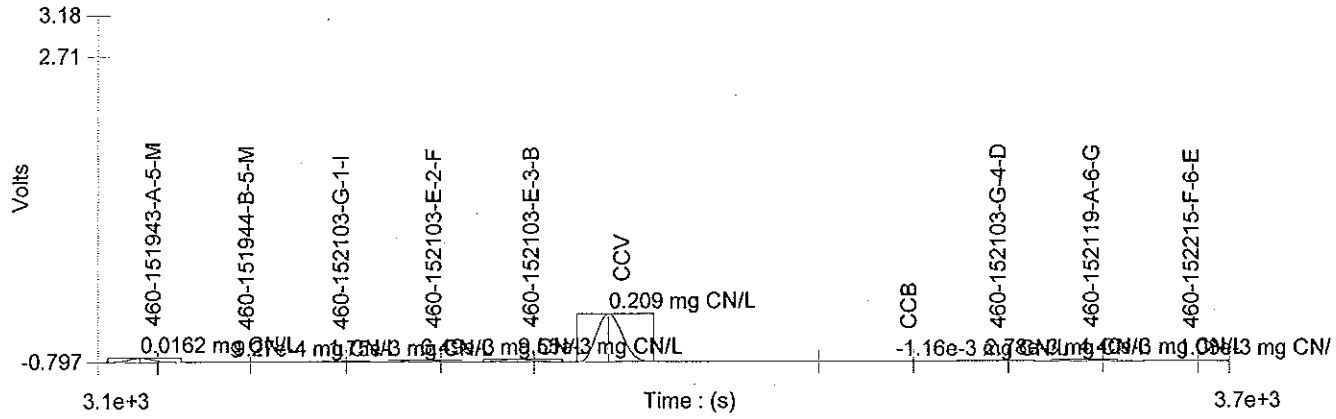
Channel 1 (Cyanide) - Set: 5 / 12



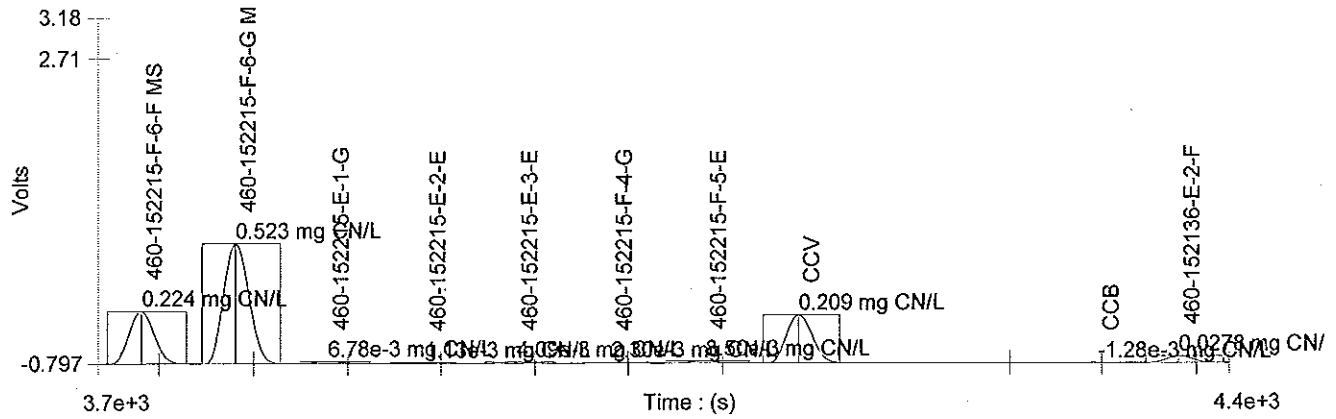
Author: EdiLachat

Date : 3/22/2018

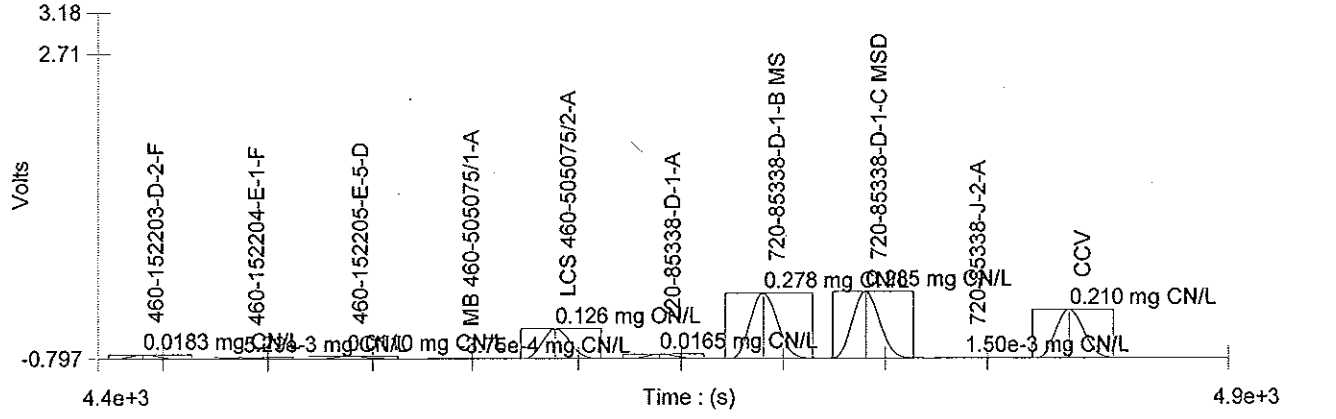
Channel 1 (Cyanide) - Set: 6 / 12



Channel 1 (Cyanide) - Set: 7 / 12



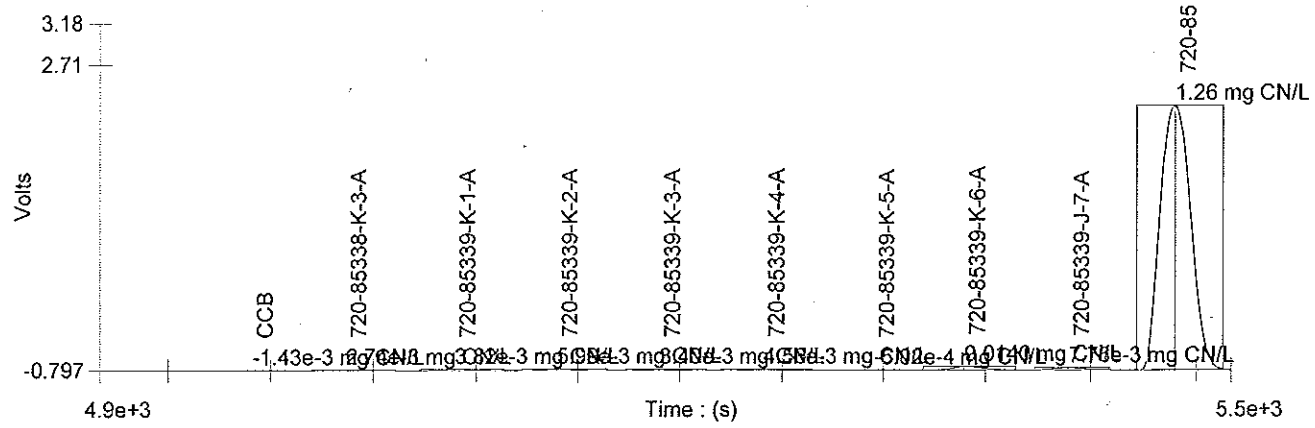
Channel 1 (Cyanide) - Set: 8 / 12



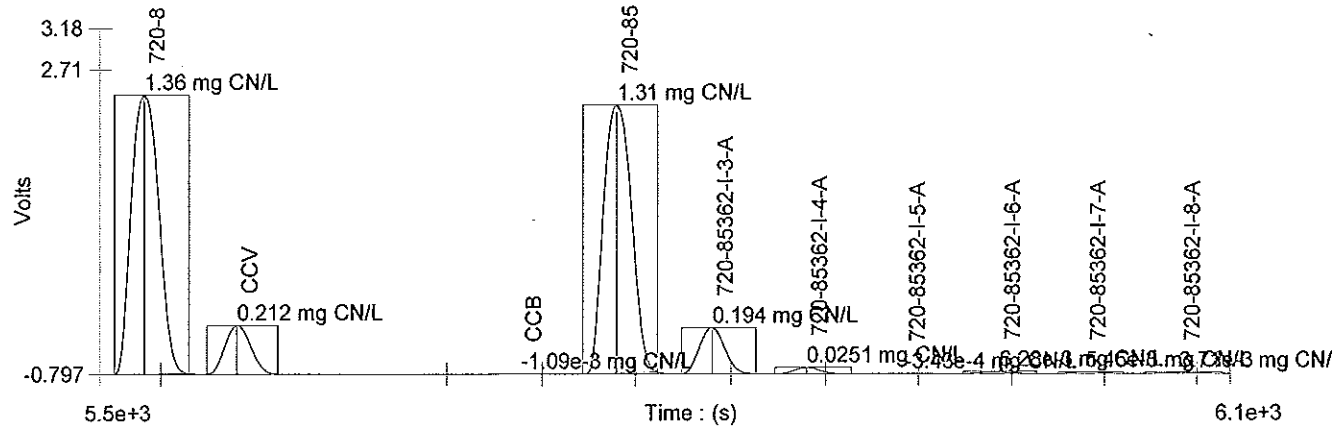
Author: EdiLachat

Date : 3/22/2018

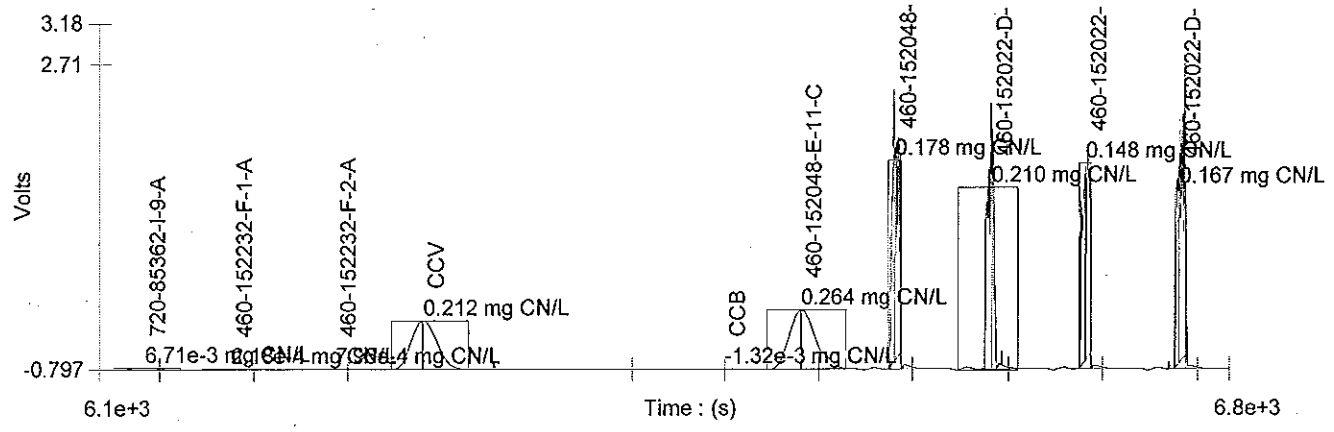
Channel 1 (Cyanide) - Set: 9 / 12



Channel 1 (Cyanide) - Set: 10 / 12



Channel 1 (Cyanide) - Set: 11 / 12



Author: EdiLachat

Date : 3/22/2018

Channel 1 (Cyanide) - Set: 12 / 12

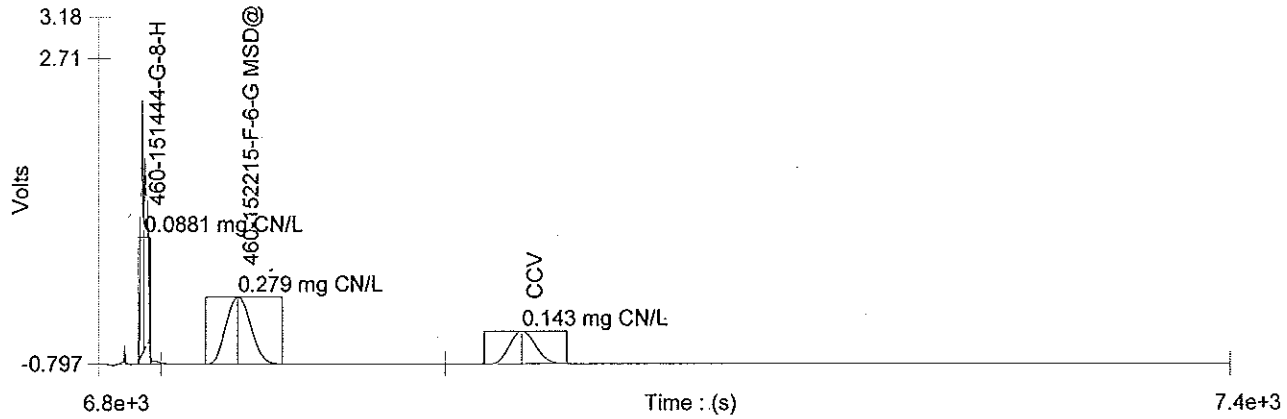
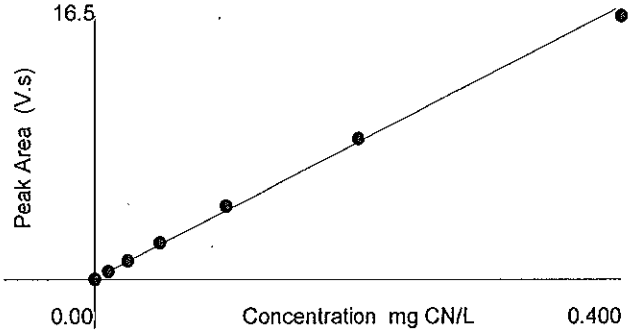


Table : 1 (Cyanide)

	Known Conc. (mg CN/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg CN/L)	Detection Date	Detection Time
1	0.400	1	16.5	1.00	0.0	3.6	0.385	3/22/2018	9:12:37 AM
2	0.200	1	8.82	0.538	0.0	-2.5	0.205	3/22/2018	9:11:44 AM
3	0.100	1	4.61	0.281	0.0	-6.0	0.106	3/22/2018	9:10:52 AM
4	0.0500	1	2.32	0.141	0.0	-4.6	0.0523	3/22/2018	9:09:59 AM
5	0.0250	1	1.19	0.0719	0.0	-3.4	0.0259	3/22/2018	9:09:06 AM
6	0.0100	1	0.508	0.0289	0.0	0.5	9.97e-3	3/22/2018	9:08:13 AM
7	0.00	1	0.0290	1.57e-3			-1.25e-3	3/22/2018	9:07:20 AM

Figure : 1 (Cyanide)



Area = 42.6 * Conc + 0.0841
Conc = 0.0234 * Area - 1.92e-3
Correlation Coefficient (r) = 0.99977

Weighting : 1/x

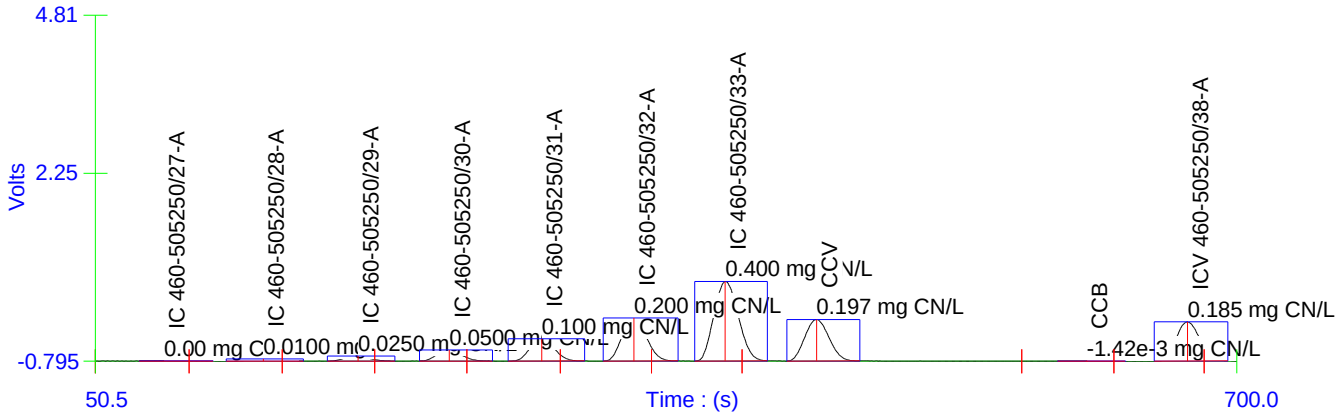
Original Run Filename: OM_3-23-2018_10-44-52AM.OMN Created: 3/23/2018 10:44:52 AM
Original Run Author's Signature: [EdiLachat]
Current Run Filename: OM_3-23-2018_10-44-52AM.OMN Last Modified: 3/23/2018 11:58:25 AM
Current Run Author's Signature: [EdiLachat]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg CN/L)	Channel 1 Cyanide Area (V.s)
IC 460-505250/27-A	1	1	0.00	0.108
IC 460-505250/28-A	1	2	0.0100	0.596
IC 460-505250/29-A	1	3	0.0250	1.35
IC 460-505250/30-A	1	4	0.0500	2.89
IC 460-505250/31-A	1	5	0.100	5.71
IC 460-505250/32-A	1	6	0.200	11.0
IC 460-505250/33-A	1	7	0.400	20.8
CCV	1	S8	0.197	10.6
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	-1.3 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	-1.3 > -10.0	
		Message	CCV Passed	
		Action	Continue	
		Calibration:	Table/Fig. : 1	
CCB	1	S9	-1.42e-3	0.0203
		Known Conc:	0.00	
ICV 460-505250/38-A	1	8	0.185	9.96
ICB	1	9	-1.22e-3	0.0311
MB 460-505250/1-A	1	10	-4.55e-4	0.0717
LCS 460-505250/2-A	1	11	0.109	5.89
460-152195-A-1-A	1	12	9.34e-3	0.594
460-152195-A-1-B MS	1	13	0.205	11.0
460-152195-A-1-C MSD	1	14	0.198	10.6
460-152198-E-1-A	1	15	-2.20e-4	0.0842
460-152323-H-1-A	1	16	2.46e-3	0.227
460-152323-H-2-A	1	17	3.84e-3	0.301
CCV	1	S8	0.196	10.6
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	-1.8 < 10.0	
		Message	Passed ccv	
		Action	Continue	
DQM Test: < - Percent Relative Difference				
		Result:	-1.8 > -10.0	
		Message	CCV Passed	
		Action	Continue	
CCB	1	S9	-1.31e-3	0.0261
		Known Conc:	0.00	
460-152323-H-3-A	1	18	2.65e-3	0.237
460-152323-H-4-A	1	19	7.15e-3	0.477
460-152323-H-5-A	1	20	1.84e-3	0.194
460-152323-H-6-A	1	21	1.89e-3	0.197
460-152323-H-7-A	1	22	1.00e-3	0.149
460-152323-H-8-A	1	23	3.92e-4	0.117
460-152323-H-9-A	1	24	2.00e-3	0.202
460-152323-H-9-B MS	1	25	0.225	12.1
460-152323-H-9-C MSD	1	26	0.202	10.8
460-152323-H-10-A	1	27	1.34e-3	0.167
CCV	1	S8	0.197	10.6
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
		Result:	-1.7 < 10.0	
		Message	Passed ccv	
		Action	Continue	

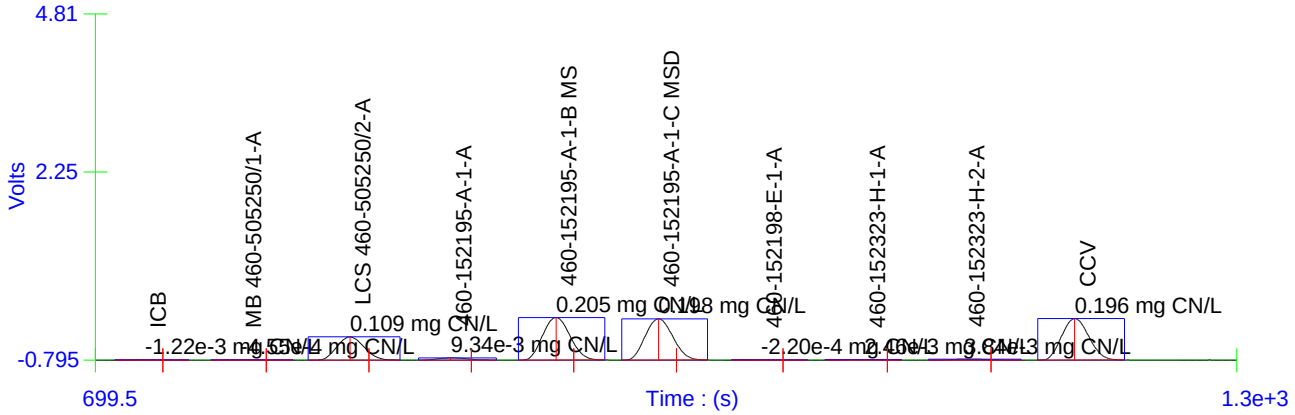
DQM Test: < - Percent Relative Difference				
			Result:	-1.7 > -10.0	
			Message	CCV Passed	
			Action	Continue	
CCB	1	S9	-1.79e-3	5.32e-4
		Known Conc:	0.00	
460-152235-F-1-A	1	28	3.28e-4	0.113
460-152235-F-2-A	1	29	1.05e-3	0.152
460-152235-F-3-A	1	30	3.77e-3	0.297
460-152235-F-4-A	1	31	6.86e-4	0.132
460-152235-F-5-A	1	32	9.18e-4	0.145
460-152235-F-6-A	1	33	-5.80e-4	0.0650
460-151844-D-6-B	1	34	7.16e-4	0.134
460-152136-E-1-A	1	35	-3.66e-4	0.0764
MB 460-505355/1-A	1	36	-1.35e-4	0.0887
LCS 460-505355/2-A	1	37	0.103	5.56
CCV	1	S8	0.197	10.6
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
			Result:	-1.7 < 10.0	
			Message	Passed ccv	
			Action	Continue	
DQM Test: < - Percent Relative Difference				
			Result:	-1.7 > -10.0	
			Message	CCV Passed	
			Action	Continue	
CCB	1	S9	-1.45e-3	0.0185
		Known Conc:	0.00	
720-85338-E-1-A	1	38	0.0186	1.09
720-85338-E-1-B MS	1	39	0.219	11.8
720-85338-E-1-C MSD	1	40	0.222	11.9
720-85339-K-6-C	1	41	0.0161	0.954
720-85362-J-1-D	1	42	1.02	54.2
720-85362-I-3-B	1	43	0.156	8.42
720-85362-I-4-B	1	44	0.0239	1.37
460-151975-N-1-B	1	45	0.0100	0.631
460-152070-O-1-B	1	46	9.46e-3	0.600
460-152070-N-2-B	1	47	4.91e-3	0.357
CCV	1	S8	0.197	10.6
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
			Result:	-1.4 < 10.0	
			Message	Passed ccv	
			Action	Continue	
DQM Test: < - Percent Relative Difference				
			Result:	-1.4 > -10.0	
			Message	CCV Passed	
			Action	Continue	
CCB	1	S9	-1.39e-3	0.0218
		Known Conc:	0.00	
460-152131-G-3-B	1	48	0.0225	1.29
460-152131-G-4-B	1	49	0.0334	1.88
460-151776-J-1-D	1	50	3.31e-3	0.272
460-151776-J-1-E MS	1	51	0.157	8.47
460-151776-J-1-F MSD	1	52	0.165	8.91
460-151776-J-2-B	1	53	0.0103	0.642
460-151776-J-3-B	1	54	9.33e-3	0.593
460-151844-D-6-C	1	55	-4.27e-4	0.0732
720-85362-J-1-D@10	1	56	0.102	5.53
CCV	1	S8	0.198	10.7
		Known Conc:	0.200	
DQM Test: > + Percent Relative Difference				
			Result:	-0.8 < 10.0	
			Message	Passed ccv	
			Action	Continue	
DQM Test: < - Percent Relative Difference				
			Result:	-0.8 > -10.0	
			Message	CCV Passed	

		Action	Continue	
CCB	1	S9	-1.45e-3	0.0189
		Known Conc:	0.00	

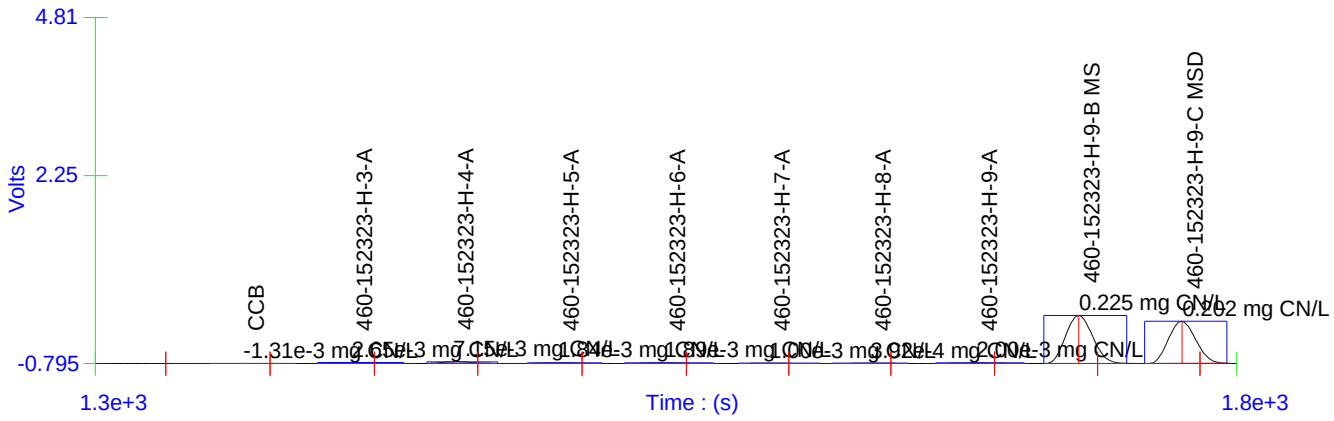
Channel 1 (Cyanide) - Set: 1 / 7



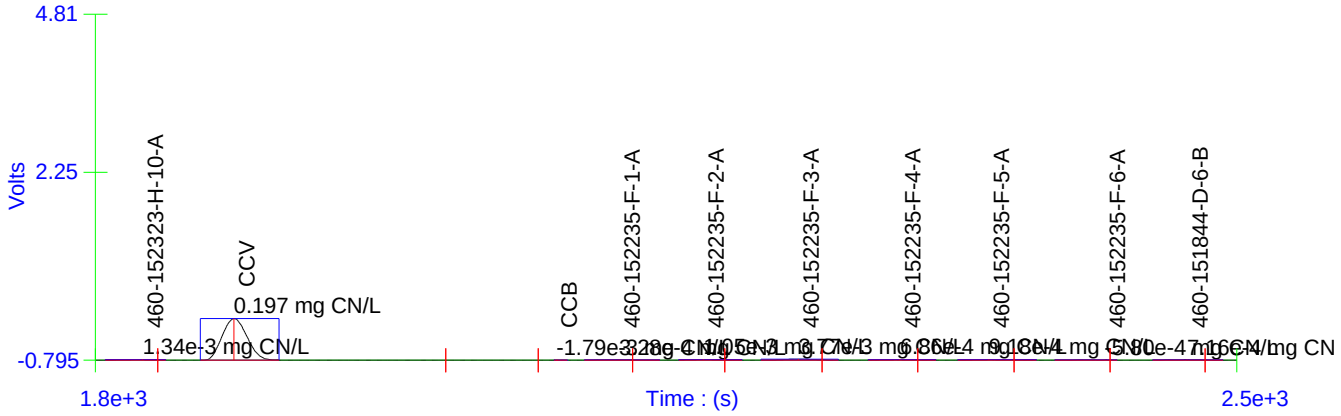
Channel 1 (Cyanide) - Set: 2 / 7



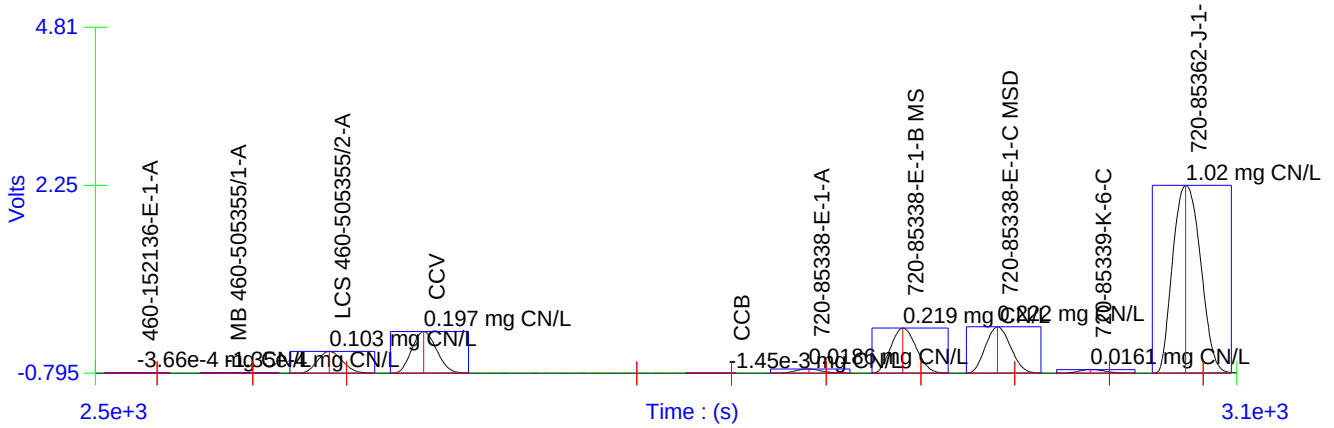
Channel 1 (Cyanide) - Set: 3 / 7



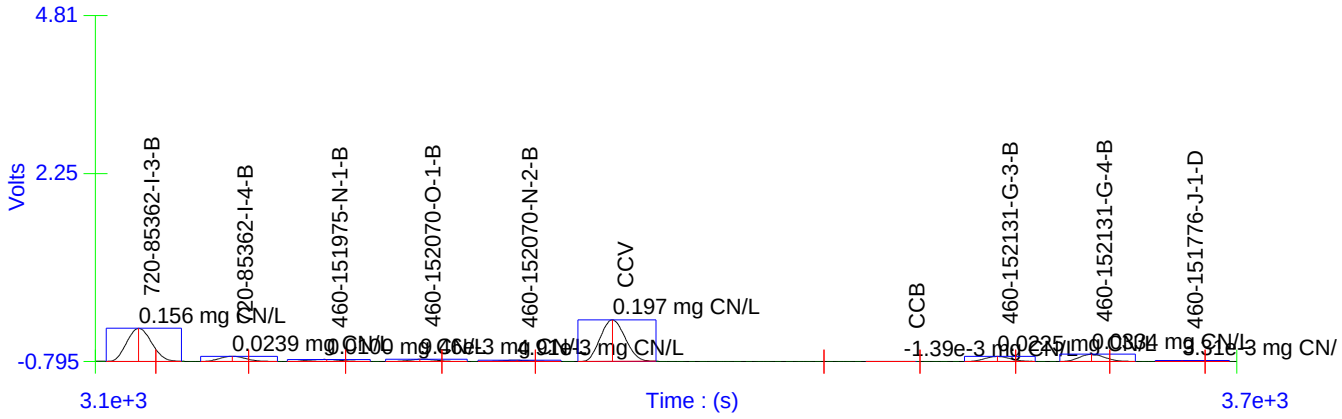
Channel 1 (Cyanide) - Set: 4 / 7



Channel 1 (Cyanide) - Set: 5 / 7



Channel 1 (Cyanide) - Set: 6 / 7



Channel 1 (Cyanide) - Set: 7 / 7

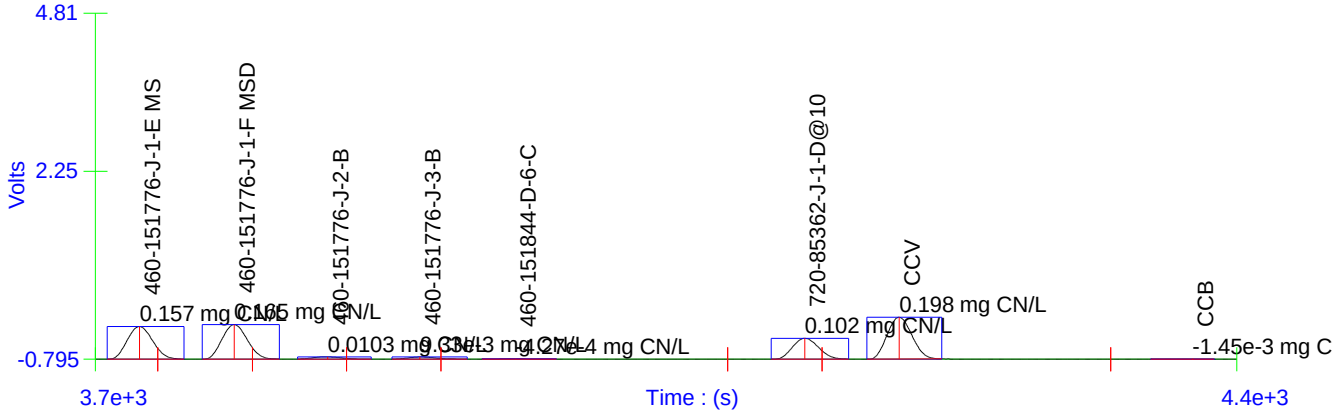
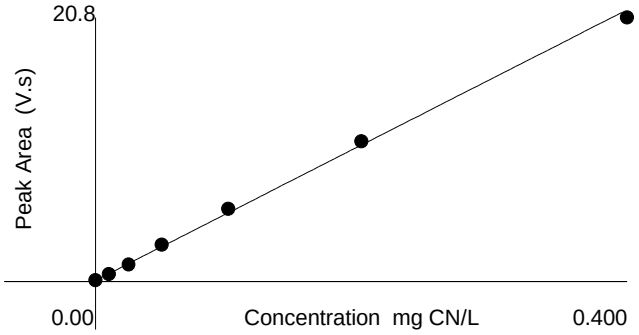


Table : 1 (Cyanide)

	Known Conc. (mg CN/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg CN/L)	Detection Date	Detection Time
1	0.400	1	20.8	1.29	0.0	2.9	0.388	3/23/2018	10:51:03 AM
2	0.200	1	11.0	0.698	0.0	-2.8	0.205	3/23/2018	10:50:11 AM
3	0.100	1	5.71	0.360	0.0	-5.4	0.105	3/23/2018	10:49:18 AM
4	0.0500	1	2.89	0.181	0.0	-4.8	0.0524	3/23/2018	10:48:25 AM
5	0.0250	1	1.35	0.0842	0.0	5.6	0.0235	3/23/2018	10:47:32 AM
6	0.0100	1	0.596	0.0365	0.0	5.3	9.39e-3	3/23/2018	10:46:39 AM
7	0.00	1	0.108	5.65e-3			2.27e-4	3/23/2018	10:45:46 AM

Figure : 1 (Cyanide)



Area = 53.2 * Conc + 0.0977
Conc = 0.0188 * Area - 1.80e-3
Correlation Coefficient (r) = 0.99982

Weighting : 1/x

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log
Wet Chemistry

Method No.: 335.4 Analyst: HV

Prep Batch: _____ Analysis Date: 03/28/18

Analytical Batch: 505599

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
85362-1	10	5	50	0.25N NaOH

Calibration

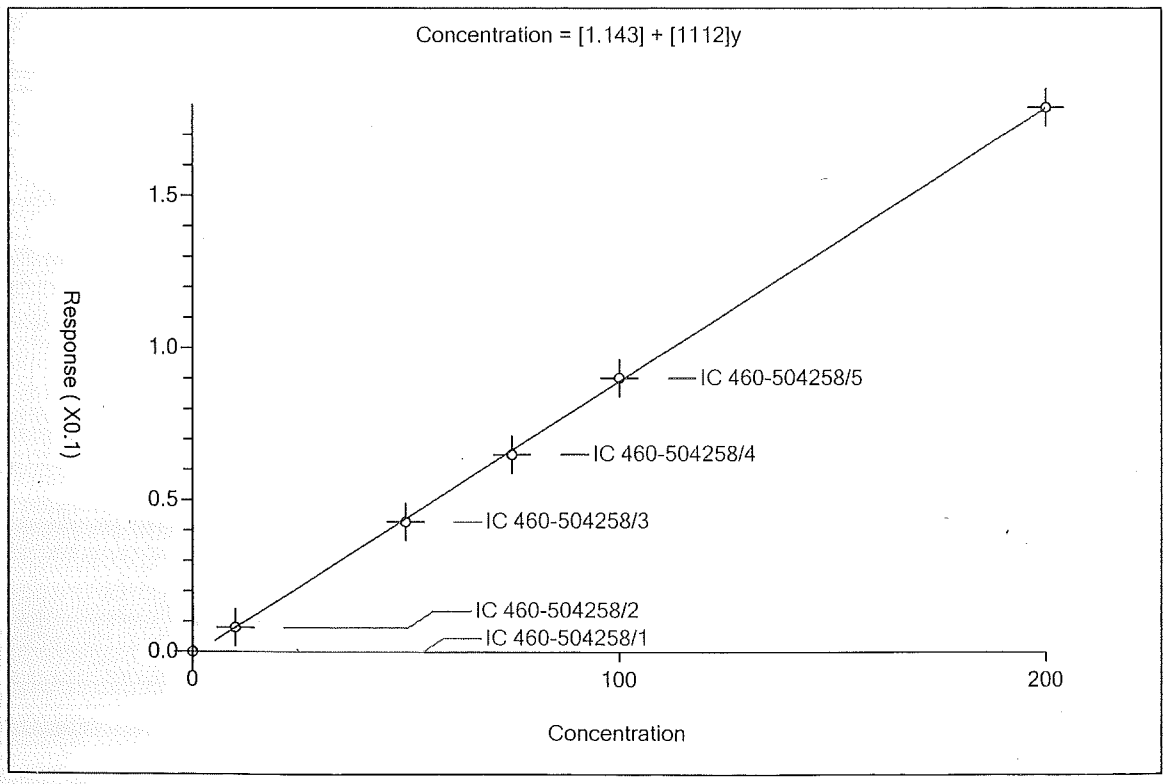
Calib 504258-0 / Cr (VI)

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
RF Rounding:	0

Curve Coefficients	
Intercept:	1.143
Slope:	1112

Error Coefficients	
Standard Error:	1.27
Relative Standard Error:	NC
Correlation Coefficient:	1.000
Coefficient of Determination(Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 460-504258/1	0.0	0.0			NaN	Y
2	IC 460-504258/2	10.0	0.008			0.0008	Y
3	IC 460-504258/3	50.0	0.043			0.00086	Y
4	IC 460-504258/4	75.0	0.065			0.000867	Y
5	IC 460-504258/5	100.0	0.09			0.0009	Y
6	IC 460-504258/6	200.0	0.179			0.000895	Y



Batch # 504258
Job # IS2136, IS2125

Sample	Dil	ABS	Blk - pH	TpH - TRead	Final pH
0		0.000		04:39 - 04:46	1.90
10		0.008			1.87
50		0.043			1.82
75		0.065			1.92
100		0.090			1.85
200		0.179			1.80
ICV		0.0078			1.96
ICB		0.000			1.98
MB		0.000			1.91
LCS		0.003		04:41 - 04:50	2.01
IS2136-D1		0.007	0.000 - 1.80	04:43 - 04:51	2.00
IS2125-E1		0.005	0.000 - 1.71		2.03
IS2125-E2		0.000	0.000 - 2.03		1.92
IS2125-D3		0.000	0.000 - 2.01		1.93
IS2125-E2Du		0.000	0.000 - 2.03		1.82
IS2125-E2MS		0.029	0.000 - 2.03		2.03
CCV		0.065			1.96
CCB		0.000		04:46 - 05:02	1.98

Continued on Page

Read and Understood By

KN 03/17/18
Signed Date Signed Date

Product: Left rep leg back — Batch/Lot: 0844

Batch# 50416 B

Acceptable color	Initial	Time
C.C	7.29	13:00
C.OS	7.13	
C.1	7.28	
C.5	7.65	
C.25	7.40	
1.25	7.34	
TCC	7.17	
TCB	7.62	
MCB	7.81	
LCSS	7.84	
LCSJul	7.60	
ERA	7.93	
152132-4	7.49	
152132-4dk	7.76	
152132-4Sal	7.80	
152132-4Jul	7.49	
152132-1	7.58	
CCV	7.17	
CCB	7.62	15:20
152132-2	7.51	14:10
152132-3	7.22	
152132-5	7.63	
152132-6	7.88	
152119-6	7.57	
152129-1	7.43	
152136-2	7.39	
152161-3	7.74	
152161-4	7.97	
151496-1	7.10	
CCV	7.17	
CCB	7.62	

Color
pale
|
red
Clear
L. Br.
Clear
|
L. Br
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Continued on Page 35

Read and Understood By

RC — Signed
3/20/15 — Date
Signed
Date

Batch 5C4201

Receipt No	Mass	Bq/pc	Time	Time	Time
0.0	0.00		13:30	- 13:37	1.51
4.05	0.044				2.00
0.1	0.089				1.72
0.5	0.436				1.89
0.75	0.621				1.99
1.25	1.029				1.63
1 Cu	0.432				1.58
1 Cm	0.00				1.74
MP	0.00				2.01
Cs	0.302				1.97
Cs 1uf	1/50 0.288				1.69
ERI	10/50 0.263				1.88
152132-4	0.009	0.002/1.69			1.60
152132-4 oth	0.007	0.003/1.87			1.54
152132-4 Sol	0.718	0.002/1.99			1.72
152132-4 MS	1/50 0.282	0.002/1.70	13:32	-13:48	2.08
152132-4 PS	0.881	0.002/1.64	13:50	-13:56	1.66
152132-1	0.024	0.013/2.12		1	1.85
CCU	0.430				1.58
CCB	0.00		13:51	-14:00	1.70
152132-2	0.011	0.002/1.53	14:40	-14:48	1.52
152132-3	0.003	0.00/2.05			1.84
152132-5	0.005	0.00/1.73			1.93
152132-6	0.005	0.00/2.10			1.66
152119-6	0.003	0.00/1.69			1.83
152129-1	0.029	0.020/2.31			1.79
152136-2	0.019	0.013/1.52			1.59
152161-3	0.008	0.00/1.61			2.16
152161-4	0.148	0.183/2.12			1.61
151406-1	0.009	0.004/1.90			1.95
CCU	0.428				1.58
CCB	0.00		14:45	- 15:00	1.74

Continued on Page

Read and Understood By

RA — Signed
5/20/18 — Date
Signed
Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log
Wet Chemistry

Method No.: 7196A

Prep Batch: _____

Analytical Batch: 504491

Analyst: RC

Analysis Date: 3/20/13

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
132132-4 mb	10x	1	10	DI

Calibration

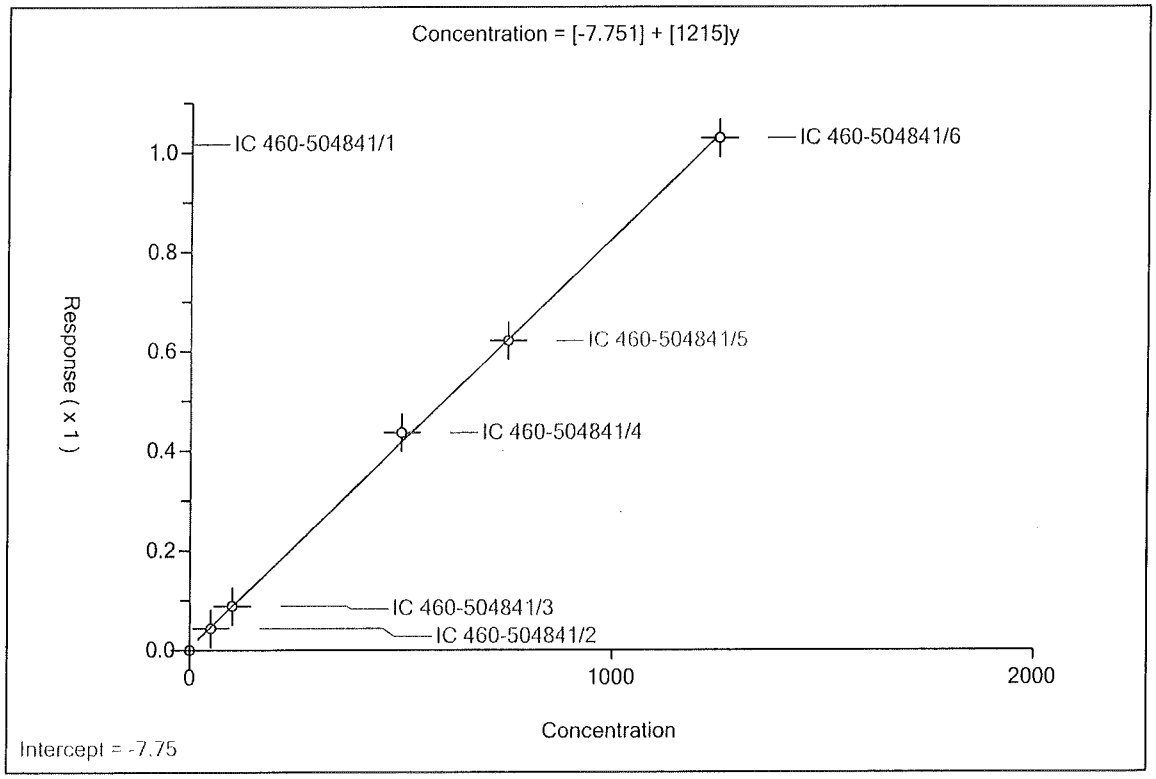
Calib 504841-0 / Cr (VI)

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

Curve Coefficients	
Intercept:	-7.751
Slope:	1215

Error Coefficients	
Standard Error:	12.5
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999 (0.999)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 460-504841/1	0.0	0.0			NaN	Y
2	IC 460-504841/2	50.0	0.044			0.00088	Y
3	IC 460-504841/3	100.0	0.089			0.00089	Y
4	IC 460-504841/4	500.0	0.436			0.000872	Y
5	IC 460-504841/5	750.0	0.621			0.000828	Y
6	IC 460-504841/6	1250.0	1.029			0.000823	Y



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504989 Batch Start Date: 03/21/18 04:45 Batch Analyst: Afremova, Izabella

Batch Method: Distill/CN Batch End Date: 03/21/18 07:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillpHCheck	SulfideCheck	ChlorineCheck	WTcn6ppm_ICV 00059
CCV 460-504989/34		Distill/CN, 9012B		6.0 mL	6.0 mL	ph>12	N	N	
ICV 460-504989/37		Distill/CN, 9012B		6.0 mL	6.0 mL	ph>12	N	N	0.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	WTcn6ppm_Pri 00079					
CCV 460-504989/34		Distill/CN, 9012B		0.2 mL					
ICV 460-504989/37		Distill/CN, 9012B							

Batch Notes	
Batch Comment	Distill. start time- 6:30 am; ; distill end time- 7:00 am
Distillation Temperature	120 Degrees C
Magnesium Chloride Reagent ID Number	# C - 5464-18 exp.08/16/18
Sodium Hydroxide ID	# C - 5402-18 exp.07/30/18
Sulfamic Acid ID	# C - 5308-17 exp.06/25/18
Sulfuric Acid Reagent ID Number	# C - 5227-17 exp.06/01/18

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505037 Batch Start Date: 03/21/18 08:00 Batch Analyst: Afremova, Izabella

Batch Method: 9012B Batch End Date: 03/21/18 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WTcyanideSO 00024			
MB 460-505037/1		9012B, 9012B		0.25 g	6.0 mL				
LCSSRM 460-505037/2		9012B, 9012B		0.25 g	6.0 mL	0.25 g			
460-152136-E-2	Ash Pit	9012B, 9012B	T	0.26 g	6.0 mL				

Batch Notes	
Batch Comment	distill. start time -9:30 am; ;; distill. end time - 10:00 am
Distillation Temperature	120 Degrees C
Sodium Hydroxide ID	0.25 NaOH lot C-6015-18 exp 09/08/18
Sulfamic Acid ID	C-5464-18 Exp 8/16/18
Sulfuric Acid Reagent ID Number	releasing agent C-5227-17 Exp 06/01/18

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505250 Batch Start Date: 03/22/18 12:46 Batch Analyst: Esteban, Maria

Batch Method: 9012B Batch End Date: 03/22/18 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillpHCheck	SulfideCheck	ChlorineCheck	WTcn6ppm_ICV 00059
MB 460-505250/1		9012B, 9012B		6 mL	6 mL				
LCS 460-505250/2		9012B, 9012B		6 mL	6 mL				
460-152323-H-9 MS		9012B, 9012B	T	6 mL	6 mL	pH>12	N	N	
460-152323-H-9 MSD		9012B, 9012B	T	6 mL	6 mL	pH>12	N	N	
460-152136-E-1	Recharge Basin	9012B, 9012B	T	6 mL	6 mL	pH>12	N	N	
CCV 460-505250/34		9012B, 9012B		6 mL	6 mL	pH>12	N	N	
ICV 460-505250/38		9012B, 9012B		6 mL	6 mL	pH>12	N	N	0.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	WTcn6ppm_Pri 00079	WTcnCmplex-IM 00059				
MB 460-505250/1		9012B, 9012B							
LCS 460-505250/2		9012B, 9012B			0.1 mL				
460-152323-H-9 MS		9012B, 9012B	T		0.2 mL				
460-152323-H-9 MSD		9012B, 9012B	T		0.2 mL				
460-152136-E-1	Recharge Basin	9012B, 9012B	T						
CCV 460-505250/34		9012B, 9012B		0.2 mL					
ICV 460-505250/38		9012B, 9012B							

Batch Notes	
Batch Comment	Distill. start time- 14:45 pm; ; distill end time- 15:15 pm
Distillation Temperature	120 Degrees C
Magnesium Chloride Reagent ID Number	# C - 5464-18 exp.08/16/18
Sodium Hydroxide ID	# C - 5402-18 exp.07/30/18
Sulfamic Acid ID	# C - 5308-17 exp.06/25/18
Sulfuric Acid Reagent ID Number	# C - 5227-17 exp.06/01/18

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 505250 Batch Start Date: 03/22/18 12:46 Batch Analyst: Esteban, Maria

Batch Method: 9012B Batch End Date: 03/22/18 16:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504258 Batch Start Date: 03/17/18 04:40 Batch Analyst: Njieha, Karianna Y

Batch Method: 7196A Batch End Date: 03/17/18 05:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	Final pH	WThcrIM2 00055	WThcrIM4 00057
IC 460-504258/1		7196A		50 mL		0.000 Absorbance	1.90 SU		
IC 460-504258/2		7196A		50 mL		0.008 Absorbance	1.87 SU	0.05 mL	
IC 460-504258/3		7196A		50 mL		0.043 Absorbance	1.82 SU	0.25 mL	
IC 460-504258/4		7196A		50 mL		0.065 Absorbance	1.92 SU	0.375 mL	
IC 460-504258/5		7196A		50 mL		0.090 Absorbance	1.85 SU	0.5 mL	
IC 460-504258/6		7196A		50 mL		0.179 Absorbance	1.80 SU	1 mL	
ICV 460-504258/7		7196A		50 mL		0.067 Absorbance	1.96 SU		0.375 mL
ICB 460-504258/8		7196A		50 mL		0.000 Absorbance	1.98 SU		
MB 460-504258/9		7196A		50 mL		0.000 Absorbance	1.91 SU		
LCSSRM 460-504258/10		7196A		50 mL		0.063 Absorbance	2.01 SU		
460-152136-D-1	Recharge Basin	7196A	T	50 mL	0.010 Absorbance	0.007 Absorbance	2.00 SU		
460-152125-E-2 DU		7196A	T	50 mL	0.000 Absorbance	0.000 Absorbance	1.82 SU		
460-152125-E-2 MS		7196A	T	50 mL	0.000 Absorbance	0.029 Absorbance	2.03 SU	0.15 mL	
CCV 460-504258/17		7196A		50 mL		0.065 Absorbance	1.96 SU		0.375 mL
CCB 460-504258/18		7196A		50 mL		0.000 Absorbance	1.98 SU		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThcrwLCS 00066	AnalysisComment				
IC 460-504258/1		7196A							
IC 460-504258/2		7196A							
IC 460-504258/3		7196A							
IC 460-504258/4		7196A							
IC 460-504258/5		7196A							
IC 460-504258/6		7196A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504258 Batch Start Date: 03/17/18 04:40 Batch Analyst: Njieha, Karianna Y

Batch Method: 7196A Batch End Date: 03/17/18 05:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThcrwLCS 00066	AnalysisComment				
ICV 460-504258/7		7196A							
ICB 460-504258/8		7196A							
MB 460-504258/9		7196A							
LCSSRM 460-504258/10		7196A		5 mL	BG pH				
460-152136-D-1	Recharge Basin	7196A	T		1.80				
460-152125-E-2 DU		7196A	T		2.03				
460-152125-E-2 MS		7196A	T		2.03				
CCV 460-504258/17		7196A							
CCB 460-504258/18		7196A							

Batch Notes	
Acid Used for pH Adjustment ID	C-5418-18 exp 08-06-18
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	C-6025-18 exp 04-09-18

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504763 Batch Start Date: 03/20/18 09:40 Batch Analyst: Kamenetskaya, Raisa

Batch Method: 3060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WThcrIM 00067	WThcrPbCr 00005	WThcrsLCS 00099	
MB 460-504763/1		3060A, 7196A		2.50 g	100 mL				
LCSSRM 460-504763/2		3060A, 7196A		2.50 g	100 mL			5 mL	
LCSI 460-504763/3		3060A, 7196A		2.50 g	100 mL		0.011 g		
460-152132-D-4 DU		3060A, 7196A	T	2.50 g	100 mL				
460-152132-D-4 MSS		3060A, 7196A	T	2.50 g	100 mL	1 mL			
460-152132-D-4 MSI		3060A, 7196A	T	2.50 g	100 mL		0.011 g		
460-152136-E-2	Ash Pit	3060A, 7196A	T	2.46 g	100 mL				

Batch Notes	
Alkaline Digestion Solution ID	C -6053-18 exp 4/14/18 PH=13.45
Batch Comment	Temp. after 30 min 94 C (corrected); 95 C (uncorrected) .
First End time	11:30
Potassium Phosphate Buffer Reagent ID	# C - 5281-17 exp.06/15/18
Lead Chromate ID	ALDRICH BCBL 8355 V exp.09/2020
Magnesium Chloride ID	Across/ A 0366108
First Start time	10:30
Ending Temperature	94 C Celsius
Starting Temperature	94 Celsius
Temperature - Uncorrected - End	95 C Celsius
Temperature - Uncorrected - Start	95 C Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504841 Batch Start Date: 03/20/18 12:50 Batch Analyst: Kamenetskaya, Raisa

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	Initial pH	Final pH	WThcrIM 00067
IC 460-504841/1		7196A		100 mL		0.000 Absorbance	7.29 SU	1.51 SU	
IC 460-504841/2		7196A		100 mL		0.044 Absorbance	7.13 SU	2.10 SU	0.05 mL
IC 460-504841/3		7196A		100 mL		0.089 Absorbance	7.78 SU	1.72 SU	0.1 mL
IC 460-504841/4		7196A		100 mL		0.436 Absorbance	7.65 SU	1.89 SU	0.5 mL
IC 460-504841/5		7196A		100 mL		0.621 Absorbance	7.40 SU	1.99 SU	0.75 mL
IC 460-504841/6		7196A		100 mL		1.029 Absorbance	7.34 SU	1.63 SU	1.25 mL
ICV 460-504841/7		7196A		100 mL		0.432 Absorbance	7.17 SU	1.58 SU	
ICB 460-504841/8		7196A		100 mL		0.000 Absorbance	7.62 SU	1.74 SU	
MB 460-504763/1-A		7196A		100 mL		0.000 Absorbance	7.81 SU	2.01 SU	
LCSSRM 460-504763/2-A		7196A		100 mL		0.312 Absorbance	7.84 SU	1.97 SU	
LCSI 460-504763/3-A		7196A		100 mL		0.288 Absorbance	7.60 SU	1.69 SU	
460-152132-D-4-D DU		7196A	T	100 mL	0.003 Absorbance	0.007 Absorbance	7.76 SU	1.54 SU	
460-152132-D-4-E MSS		7196A	T	100 mL	0.002 Absorbance	0.718 Absorbance	7.80 SU	1.72 SU	
460-152132-D-4-F MSI		7196A	T	100 mL	0.000 Absorbance	0.282 Absorbance	7.49 SU	2.08 SU	
460-152132-D-4-C PDS		7196A	T	50 mL	0.002 Absorbance	0.881 Absorbance	7.49 SU	1.66 SU	0.5 mL
CCV 460-504841/19		7196A		100 mL		0.430 Absorbance	7.17 SU	1.58 SU	
CCB 460-504841/20		7196A		100 mL		0.000 Absorbance	7.62 SU	1.74 SU	
460-152136-E-2-C	Ash Pit	7196A	T	100 mL	0.013 Absorbance	0.019 Absorbance	7.39 SU	1.59 SU	
CCV 460-504841/31		7196A		100 mL		0.428 Absorbance	7.17 SU	1.58 SU	
CCB 460-504841/32		7196A		100 mL		0.000 Absorbance	7.62 SU	1.74 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThcrIM3 00044	AnalysisComment				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504841 Batch Start Date: 03/20/18 12:50 Batch Analyst: Kamenetskaya, Raisa

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThcrIM3 00044	AnalysisComment				
IC 460-504841/1		7196A							
IC 460-504841/2		7196A							
IC 460-504841/3		7196A							
IC 460-504841/4		7196A							
IC 460-504841/5		7196A							
IC 460-504841/6		7196A							
ICV 460-504841/7		7196A		0.5 mL					
ICB 460-504841/8		7196A							
MB 460-504763/1-A		7196A							
LCSSRM 460-504763/2-A		7196A							
LCSI 460-504763/3-A		7196A							
460-152132-D-4-D DU		7196A	T		1.87				
460-152132-D-4-E MSS		7196A	T		1.99				
460-152132-D-4-F MSI		7196A	T		2.10				
460-152132-D-4-C PDS		7196A	T		1.64				
CCV 460-504841/19		7196A		0.5 mL					
CCB 460-504841/20		7196A							
460-152136-E-2-C	Ash Pit	7196A	T		1.52				
CCV 460-504841/31		7196A		0.5 mL					
CCB 460-504841/32		7196A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504841 Batch Start Date: 03/20/18 12:50 Batch Analyst: Kamenetskaya, Raisa

Batch Method: 7196A Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	10% H2SO4 C-6023-18 exp 9/9/18
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	C-6025-18 exp 4/9/18
Phosphoric Acid ID	1:1 HNO3 C 5461-18 exp 8/16/18

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-152136-1

SDG No.:

Batch Number: 504259 Batch Start Date: 03/17/18 06:50 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date: 03/19/18 14:04

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-152136-D-2	Ash Pit	Moisture	T	50	1.02 g	6.36 g	2.62 g		
460-152103-F-3 DU		Moisture	T	66	1.05 g	7.71 g	6.46 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	03/17/2018
Oven Temp In	103 Degrees C
Time samples were place in the oven	07:08
Date samples were removed from oven	03/19/2018
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	14:04
Oven ID	3
Thermometer ID	146052
Uncorrected In Temperature	103 Degrees C
Uncorrected Out Temperature	104 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Mr. Andrew Lockwood	Sampler: Janelle Cooley	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-92363-58436.3
Company: PW Grosser Consulting	Phone: 631-432-1671	E-Mail: melissa.haas@testamericainc.com		Page: Page of
Address: 630 Johnson Ave Suite 7	Due Date Requested:			Job #:
City: Bohemia	TAT Requested (days): 5 business days			
State, Zip: NY, 11716	PO #: SHD1801			
Phone: 631-589-6353(Tel)	WO #: SHD1801			
Email: andyl@pwgrosser.com	Project #: 46024260			
Project Name: Suffolk County Firematics Site	SSOW#:			
Site:				

Analysis Requested

SHORT HOLD

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other: 1,4 Dioxane 8270C SIM 1,4 Dioxane 8270D SIM TCLP VOCs 1,4 Dioxane 8270C SIM TCLP VOCs 1,4 Dioxane 8270D SIM

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	8260C - Part 375/TCL VOCs+10	8270D - Part 375/TCL SVOCS+20	8270D SIM-1,4-DIOXANE	8081B - TCL PESTS	8082A - PCBS	6020A/7470A -TAL METALS	6020A/7470A -TAL METALS (Lab-filtered)	7196A - HEXAVALENT CHROMIUM	9012B - Cyanide, Total	TCLP VOCs	Perform MS/MSD (Yes or No)	Special Instructions/Note:
Recharge Basin	3/16/18	1100	C	W			X	X	X	X	X	X	X	X	X			1
Ash Pit	3/16/18	945	C	S			X	X	X	X	X	X	X	X	X			2
Trip Blank	3/16/18	1130	C	W			X											3

460-152136 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: 7800 N Bay	Date/Time: 3/16/18 1400	Company	Received by:	Date/Time: 3/16/18 1400	Company		
Relinquished by:	Date/Time: 3/16/18 2130	Company	Received by:	Date/Time: 3/16/18 2020	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

1.9 / 1.9 ERA 11 NO C.

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 152136

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	7.0 °C	7.0 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2								>12			

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 3/16/18

Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-152136-1

Login Number: 152136
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-153774-1

Job Description: Suffolk County Firematics Site

For:
PW Grosser Consulting
630 Johnson Ave
Suite 7
Bohemia, NY 11716

Attention: Ms. Heather Moran-Botta

Approved for release.
Thomas A Chupela
Project Management Assistant I
4/17/2018 9:54 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
04/17/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

Job Number: 460-153774-1

Job Description: Suffolk County Firematics Site

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Thomas A Chupela
Project Management Assistant I
4/17/2018 9:54 AM

Designee for
Melissa Haas

Table of Contents

Cover Title Page 1

Data Summaries 6

Report Narrative 6

Sample Summary 8

Detection Summary 9

Method Summary 10

Client Sample Results 11

Surrogate Summary 13

QC Sample Results 15

Definitions 22

QC Association 23

Chronicle 26

Certification Summary 27

Organic Sample Data 28

GC/MS Semi VOA 28

8270D 28

8270D QC Summary 29

8270D Sample Data 37

Standards Data 41

8270D ICAL Data 41

8270D Resolution Data 94

8270D CCAL Data 95

Raw QC Data 105

8270D Tune Data 105

8270D Blank Data 121

8270D LCS/LCSD Data 127

Table of Contents

8270D Run Logs 137

8270D Prep Data 139

GC Semi VOA 144

8081B 144

8081B QC Summary 145

8081B Sample Data 153

Standards Data 159

8081B ICAL Data 159

8081B Resolution Data 363

8081B PEM Data 367

8081B CCAL Data 375

Raw QC Data 422

8081B Blank Data 422

8081B LCS/LCSD Data 436

8081B Run Logs 456

8081B Prep Data 459

Method 8151A 461

Method 8151A QC Summary 462

Method 8151A Sample Data 470

Standards Data 478

Method 8151A ICAL Data 478

Method 8151A CCAL Data 504

Raw QC Data 522

Method 8151A Blank Data 522

Method 8151A LCS/LCSD Data 532

Method 8151A MS/MSD Data 539

Table of Contents

Method 8151A Run Logs 551

Method 8151A Prep Data 554

Inorganic Sample Data 557

Metals Data 557

Met Cover Page 558

Met Sample Data 559

Met QC Data 560

Met ICV/CCV 560

Met CRQL 566

Met Blanks 567

Met ICSA/ICSAB 574

Met MS/MSD/PDS 576

Met Dup/Trip 579

Met LCS/LCSD 581

Met Serial Dilution 583

Met MDL 585

Met Linear Ranges 589

Met Preparation Log 590

Met Analysis Run Log 592

Met Raw Data 600

Met Prep Data 785

Shipping and Receiving Documents 790

Client Chain of Custody 791

Sample Receipt Checklist 793

CASE NARRATIVE

Client: PW Grosser Consulting

Project: Suffolk County Firematics Site

Report Number: 460-153774-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT
The sample was received on 4/11/2018 7:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. SPLP PFAS was indicated as the part of the project name; however, the testing required for these samples is TCLP Metals/Herbicides/SVOC/Pesticides.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TCLP CHLORINATED HERBICIDES
Sample AshPit (460-153774-1) was analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/ 8151A. The samples were leached on 04/13/2018, and prepared and analyzed on 04/16/2018.

The laboratory control sample (LCS) for 511289 recovered outside control limits for the following analytes: 2,4-D. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 511359 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Silvex (2,4,5-TP) failed the recovery criteria high for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-153622-22 in batch 460-511359.

Refer to the QC report for details.

No other difficulties were encountered during the TCLP herbicides analysis.

All other quality control parameters were within the acceptance limits.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample AshPit (460-153774-1) was analyzed for TCLP Semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Methods 1311/8270D. The samples were leached on 04/13/2018, prepared on 04/15/2018 and analyzed on 04/16/2018.

No difficulties were encountered during the TCLP semivolatiles analysis.

All quality control parameters were within the acceptance limits.

TCLP PESTICIDES
Sample AshPit (460-153774-1) was analyzed for TCLP pesticides in accordance with EPA SW-846 Methods 1311/ 8081B. The samples

were leached on 04/13/2018, prepared on 04/15/2018 and analyzed on 04/16/2018.

No difficulties were encountered during the TCLP pesticides analysis.

All quality control parameters were within the acceptance limits.

TCLP METALS

Sample AshPit (460-153774-1) was analyzed for TCLP metals in accordance with EPA SW-846 Methods 1311/ 6010C. The samples were leached on 04/13/2018, prepared on 04/14/2015 and analyzed on 04/16/2018.

No difficulties were encountered during the TCLP metals analysis.

All quality control parameters were within the acceptance limits.

TCLP MERCURY

Sample AshPit (460-153774-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 04/13/2018, and prepared and analyzed on 04/16/2018.

No difficulties were encountered during the TCLP Hg analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-153774-1	AshPit	Solid	04/11/18 11:45	04/11/18 19:00

Detection Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

Client Sample ID: AshPit

Lab Sample ID: 460-153774-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	49.1	J	75.0	21.8	ug/L	5		6010C	TCLP
Barium	2900		1000	43.2	ug/L	5		6010C	TCLP
Cadmium	16.6	J	20.0	9.2	ug/L	5		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: AshPit

Date Collected: 04/11/18 11:45
Date Received: 04/11/18 19:00

Lab Sample ID: 460-153774-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.3	U	10	1.3	ug/L		04/15/18 12:48	04/16/18 11:44	1
2,4,5-Trichlorophenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 11:44	1
2,4,6-Trichlorophenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 11:44	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		04/15/18 12:48	04/16/18 11:44	1
2-Methylphenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 11:44	1
3 & 4 Methylphenol	0.20	U	10	0.20	ug/L		04/15/18 12:48	04/16/18 11:44	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		04/15/18 12:48	04/16/18 11:44	1
Hexachlorobutadiene	0.80	U	2.0	0.80	ug/L		04/15/18 12:48	04/16/18 11:44	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		04/15/18 12:48	04/16/18 11:44	1
Nitrobenzene	0.60	U	1.0	0.60	ug/L		04/15/18 12:48	04/16/18 11:44	1
Pentachlorophenol	1.4	U	30	1.4	ug/L		04/15/18 12:48	04/16/18 11:44	1
Pyridine	1.9	U	10	1.9	ug/L		04/15/18 12:48	04/16/18 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 139*	*04/15/18 12:48*	*04/16/18 11:44*	*1*
2-Fluorobiphenyl	*91*		*45 - 107*	*04/15/18 12:48*	*04/16/18 11:44*	*1*
2-Fluorophenol (Surr)	*40*		*25 - 58*	*04/15/18 12:48*	*04/16/18 11:44*	*1*
Nitrobenzene-d5 (Surr)	*92*		*51 - 108*	*04/15/18 12:48*	*04/16/18 11:44*	*1*
Phenol-d5 (Surr)	*24*		*14 - 39*	*04/15/18 12:48*	*04/16/18 11:44*	*1*
Terphenyl-d14 (Surr)	*74*		*40 - 148*	*04/15/18 12:48*	*04/16/18 11:44*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.055	U	5.0	0.055	ug/L		04/15/18 10:25	04/16/18 10:41	1
Endrin	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 10:41	1
gamma-BHC (Lindane)	0.012	U	0.50	0.012	ug/L		04/15/18 10:25	04/16/18 10:41	1
Heptachlor	0.0030	U	0.50	0.0030	ug/L		04/15/18 10:25	04/16/18 10:41	1
Heptachlor epoxide	0.0050	U	0.50	0.0050	ug/L		04/15/18 10:25	04/16/18 10:41	1
Methoxychlor	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 10:41	1
Toxaphene	0.11	U	5.0	0.11	ug/L		04/15/18 10:25	04/16/18 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 150*	*04/15/18 10:25*	*04/16/18 10:41*	*1*
DCB Decachlorobiphenyl	*73*		*10 - 150*	*04/15/18 10:25*	*04/16/18 10:41*	*1*
Tetrachloro-m-xylene	*68*		*12 - 136*	*04/15/18 10:25*	*04/16/18 10:41*	*1*
Tetrachloro-m-xylene	*66*		*12 - 136*	*04/15/18 10:25*	*04/16/18 10:41*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	5.0	U	83	5.0	ug/L		04/16/18 00:41	04/16/18 10:57	1
Silvex (2,4,5-TP)	4.0	U	83	4.0	ug/L		04/16/18 00:41	04/16/18 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*130*		*54 - 150*	*04/16/18 00:41*	*04/16/18 10:57*	*1*
2,4-Dichlorophenylacetic acid	*133*		*54 - 150*	*04/16/18 00:41*	*04/16/18 10:57*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**49.1**	**J**	75.0	21.8	ug/L		04/14/15 21:30	04/16/18 14:37	5
Barium	**2900**		1000	43.2	ug/L		04/14/15 21:30	04/16/18 14:37	5
Cadmium	**16.6**	**J**	20.0	9.2	ug/L		04/14/15 21:30	04/16/18 14:37	5

Client Sample ID: AshPit
Lab Sample ID: 460-153774-1

Date Collected: 04/11/18 11:45
Matrix: Solid

Date Received: 04/11/18 19:00

Method: 6010C - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	16.6	U	50.0	16.6	ug/L		04/14/15 21:30	04/16/18 14:37	5
Lead	20.4	U	50.0	20.4	ug/L		04/14/15 21:30	04/16/18 14:37	5
Selenium	22.2	U	100	22.2	ug/L		04/14/15 21:30	04/16/18 14:37	5
Silver	9.0	U	50.0	9.0	ug/L		04/14/15 21:30	04/16/18 14:37	5

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		04/16/18 12:16	04/16/18 15:08	1

Surrogate Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(26-139)	(45-107)	(25-58)	(51-108)	(14-39)	(40-148)
LCS 460-511220/2-A	Lab Control Sample	113	98	46	97	30	96
LCSD 460-511220/3-A	Lab Control Sample Dup	110	97	44	94	29	93
MB 460-511220/1-A	Method Blank	103	89	35	91	23	92

Surrogate Legend

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

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(26-139)	(45-107)	(25-58)	(51-108)	(14-39)	(40-148)
460-153774-1	AshPit	100	91	40	92	24	74
LB 460-511103/1-D	Method Blank	103	94	42	95	25	89

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(12-136)	(12-136)
LCS 460-511212/2-A	Lab Control Sample	79	78	73	82
LCSD 460-511212/3-A	Lab Control Sample Dup	77	69	65	71
MB 460-511212/1-A	Method Blank	83	99	75	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(12-136)	(12-136)
460-153774-1	AshPit	79	73	68	66

Surrogate Summary

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(12-136)	(12-136)
LB 460-511103/1-C	Method Blank	79	73	69	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(54-150)	(54-150)
LCS 460-511289/2-A	Lab Control Sample	113	117
MB 460-511289/1-A	Method Blank	110	107

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(54-150)	(54-150)
460-153622-I-22-H MS	Matrix Spike	114	122
460-153622-I-22-I MSD	Matrix Spike Duplicate	126	129
460-153774-1	AshPit	130	133

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 460-511220/1-A
Matrix: Solid
Analysis Batch: 511320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.3	U	10	1.3	ug/L		04/15/18 12:48	04/16/18 08:04	1
2,4,5-Trichlorophenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 08:04	1
2,4,6-Trichlorophenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 08:04	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		04/15/18 12:48	04/16/18 08:04	1
2-Methylphenol	0.30	U	10	0.30	ug/L		04/15/18 12:48	04/16/18 08:04	1
3 & 4 Methylphenol	0.20	U	10	0.20	ug/L		04/15/18 12:48	04/16/18 08:04	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		04/15/18 12:48	04/16/18 08:04	1
Hexachlorobutadiene	0.80	U	2.0	0.80	ug/L		04/15/18 12:48	04/16/18 08:04	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		04/15/18 12:48	04/16/18 08:04	1
Nitrobenzene	0.60	U	1.0	0.60	ug/L		04/15/18 12:48	04/16/18 08:04	1
Pentachlorophenol	1.4	U	30	1.4	ug/L		04/15/18 12:48	04/16/18 08:04	1
Pyridine	1.9	U	10	1.9	ug/L		04/15/18 12:48	04/16/18 08:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*26 - 139*	*04/15/18 12:48*	*04/16/18 08:04*	*1*
2-Fluorobiphenyl	*89*		*45 - 107*	*04/15/18 12:48*	*04/16/18 08:04*	*1*
2-Fluorophenol (Surr)	*35*		*25 - 58*	*04/15/18 12:48*	*04/16/18 08:04*	*1*
Nitrobenzene-d5 (Surr)	*91*		*51 - 108*	*04/15/18 12:48*	*04/16/18 08:04*	*1*
Phenol-d5 (Surr)	*23*		*14 - 39*	*04/15/18 12:48*	*04/16/18 08:04*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 148*	*04/15/18 12:48*	*04/16/18 08:04*	*1*

Lab Sample ID: LCS 460-511220/2-A
Matrix: Solid
Analysis Batch: 511320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	80.0	53.1		ug/L		66	42 - 94
2,4,5-Trichlorophenol	80.0	84.4		ug/L		106	59 - 117
2,4,6-Trichlorophenol	80.0	87.0		ug/L		109	62 - 120
2,4-Dinitrotoluene	80.0	86.7		ug/L		108	70 - 123
2-Methylphenol	80.0	53.7		ug/L		67	43 - 80
3 & 4 Methylphenol	80.0	44.3		ug/L		55	34 - 77
Hexachlorobenzene	80.0	84.7		ug/L		106	63 - 125
Hexachlorobutadiene	80.0	50.3		ug/L		63	34 - 99
Hexachloroethane	80.0	42.4		ug/L		53	39 - 92
Nitrobenzene	80.0	76.8		ug/L		96	56 - 106
Pentachlorophenol	160	164		ug/L		103	54 - 120
Pyridine	160	88.3		ug/L		55	16 - 70

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*113*		*26 - 139*
2-Fluorobiphenyl	*98*		*45 - 107*
2-Fluorophenol (Surr)	*46*		*25 - 58*
Nitrobenzene-d5 (Surr)	*97*		*51 - 108*
Phenol-d5 (Surr)	*30*		*14 - 39*
Terphenyl-d14 (Surr)	*96*		*40 - 148*

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

Lab Sample ID: LCSD 460-511220/3-A
Matrix: Solid
Analysis Batch: 511320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511220

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			80.0	51.9		ug/L		65	42 - 94	2	30
2,4,5-Trichlorophenol			80.0	82.0		ug/L		102	59 - 117	3	30
2,4,6-Trichlorophenol			80.0	84.6		ug/L		106	62 - 120	3	30
2,4-Dinitrotoluene			80.0	83.0		ug/L		104	70 - 123	4	30
2-Methylphenol			80.0	51.6		ug/L		65	43 - 80	4	30
3 & 4 Methylphenol			80.0	42.8		ug/L		54	34 - 77	3	30
Hexachlorobenzene			80.0	80.3		ug/L		100	63 - 125	5	30
Hexachlorobutadiene			80.0	50.2		ug/L		63	34 - 99	0	30
Hexachloroethane			80.0	42.1		ug/L		53	39 - 92	1	30
Nitrobenzene			80.0	72.1		ug/L		90	56 - 106	6	30
Pentachlorophenol			160	158		ug/L		99	54 - 120	4	30
Pyridine			160	84.4		ug/L		53	16 - 70	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*110*		*26 - 139*
2-Fluorobiphenyl	*97*		*45 - 107*
2-Fluorophenol (Surr)	*44*		*25 - 58*
Nitrobenzene-d5 (Surr)	*94*		*51 - 108*
Phenol-d5 (Surr)	*29*		*14 - 39*
Terphenyl-d14 (Surr)	*93*		*40 - 148*

Lab Sample ID: LB 460-511103/1-D
Matrix: Solid
Analysis Batch: 511320

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 511212

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0052	U	0.040	0.0052	ug/L		04/15/18 10:25	04/16/18 09:50	1
2,4,5-Trichlorophenol	0.0012	U	0.040	0.0012	ug/L		04/15/18 10:25	04/16/18 09:50	1
2,4,6-Trichlorophenol	0.0012	U	0.040	0.0012	ug/L		04/15/18 10:25	04/16/18 09:50	1
2,4-Dinitrotoluene	0.0040	U	0.0080	0.0040	ug/L		04/15/18 10:25	04/16/18 09:50	1
2-Methylphenol	0.0012	U	0.040	0.0012	ug/L		04/15/18 10:25	04/16/18 09:50	1
3 & 4 Methylphenol	0.00080	U	0.040	0.00080	ug/L		04/15/18 10:25	04/16/18 09:50	1
Hexachlorobenzene	0.0016	U	0.0040	0.0016	ug/L		04/15/18 10:25	04/16/18 09:50	1
Hexachlorobutadiene	0.0032	U	0.0080	0.0032	ug/L		04/15/18 10:25	04/16/18 09:50	1
Hexachloroethane	0.0048	U	0.0080	0.0048	ug/L		04/15/18 10:25	04/16/18 09:50	1
Nitrobenzene	0.0024	U	0.0040	0.0024	ug/L		04/15/18 10:25	04/16/18 09:50	1
Pentachlorophenol	0.0056	U	0.12	0.0056	ug/L		04/15/18 10:25	04/16/18 09:50	1
Pyridine	0.0076	U	0.040	0.0076	ug/L		04/15/18 10:25	04/16/18 09:50	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*26 - 139*	*04/15/18 10:25*	*04/16/18 09:50*	*1*
2-Fluorobiphenyl	*94*		*45 - 107*	*04/15/18 10:25*	*04/16/18 09:50*	*1*
2-Fluorophenol (Surr)	*42*		*25 - 58*	*04/15/18 10:25*	*04/16/18 09:50*	*1*
Nitrobenzene-d5 (Surr)	*95*		*51 - 108*	*04/15/18 10:25*	*04/16/18 09:50*	*1*
Phenol-d5 (Surr)	*25*		*14 - 39*	*04/15/18 10:25*	*04/16/18 09:50*	*1*
Terphenyl-d14 (Surr)	*89*		*40 - 148*	*04/15/18 10:25*	*04/16/18 09:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-511212/1-A
Matrix: Solid
Analysis Batch: 511361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.055	U	5.0	0.055	ug/L		04/15/18 10:25	04/16/18 09:53	1
Endrin	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 09:53	1
gamma-BHC (Lindane)	0.012	U	0.50	0.012	ug/L		04/15/18 10:25	04/16/18 09:53	1
Heptachlor	0.0030	U	0.50	0.0030	ug/L		04/15/18 10:25	04/16/18 09:53	1
Heptachlor epoxide	0.0050	U	0.50	0.0050	ug/L		04/15/18 10:25	04/16/18 09:53	1
Methoxychlor	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 09:53	1
Toxaphene	0.11	U	5.0	0.11	ug/L		04/15/18 10:25	04/16/18 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*10 - 150*	*04/15/18 10:25*	*04/16/18 09:53*	*1*
DCB Decachlorobiphenyl	*99*		*10 - 150*	*04/15/18 10:25*	*04/16/18 09:53*	*1*
Tetrachloro-m-xylene	*75*		*12 - 136*	*04/15/18 10:25*	*04/16/18 09:53*	*1*
Tetrachloro-m-xylene	*75*		*12 - 136*	*04/15/18 10:25*	*04/16/18 09:53*	*1*

Lab Sample ID: LCS 460-511212/2-A
Matrix: Solid
Analysis Batch: 511361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-Chlordane			0.800	0.742		ug/L		93	59 - 131		
cis-Chlordane			0.800	0.859		ug/L		107	59 - 131		
Endrin			0.800	0.796		ug/L		99	60 - 135		
Endrin			0.800	0.880		ug/L		110	60 - 135		
gamma-BHC (Lindane)			0.800	0.706		ug/L		88	59 - 131		
gamma-BHC (Lindane)			0.800	0.850		ug/L		106	59 - 131		
Heptachlor			0.800	0.692		ug/L		86	54 - 126		
Heptachlor			0.800	0.850		ug/L		106	54 - 126		
Heptachlor epoxide			0.800	0.735		ug/L		92	60 - 130		
Heptachlor epoxide			0.800	0.880		ug/L		110	60 - 130		
Methoxychlor			0.800	0.830		ug/L		104	57 - 133		
Methoxychlor			0.800	0.742		ug/L		93	57 - 133		
trans-Chlordane			0.800	0.736		ug/L		92	60 - 132		
trans-Chlordane			0.800	0.897		ug/L		112	60 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*79*		*10 - 150*
DCB Decachlorobiphenyl	*78*		*10 - 150*
Tetrachloro-m-xylene	*73*		*12 - 136*
Tetrachloro-m-xylene	*82*		*12 - 136*

Lab Sample ID: LCSD 460-511212/3-A
Matrix: Solid
Analysis Batch: 511361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-Chlordane			0.800	0.721		ug/L		90	59 - 131	3	30
cis-Chlordane			0.800	0.780		ug/L		98	59 - 131	10	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-511212/3-A
Matrix: Solid
Analysis Batch: 511361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.800	0.775		ug/L		97	60 - 135	3	30
Endrin			0.800	0.796		ug/L		99	60 - 135	10	30
gamma-BHC (Lindane)			0.800	0.689		ug/L		86	59 - 131	2	30
gamma-BHC (Lindane)			0.800	0.765		ug/L		96	59 - 131	11	30
Heptachlor			0.800	0.671		ug/L		84	54 - 126	3	30
Heptachlor			0.800	0.740		ug/L		92	54 - 126	14	30
Heptachlor epoxide			0.800	0.721		ug/L		90	60 - 130	2	30
Heptachlor epoxide			0.800	0.772		ug/L		97	60 - 130	13	30
Methoxychlor			0.800	0.794		ug/L		99	57 - 133	4	30
Methoxychlor			0.800	0.694		ug/L		87	57 - 133	7	30
trans-Chlordane			0.800	0.721		ug/L		90	60 - 132	2	30
trans-Chlordane			0.800	0.790		ug/L		99	60 - 132	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*10 - 150*
DCB Decachlorobiphenyl	*69*		*10 - 150*
Tetrachloro-m-xylene	*65*		*12 - 136*
Tetrachloro-m-xylene	*71*		*12 - 136*

Lab Sample ID: LB 460-511103/1-C
Matrix: Solid
Analysis Batch: 511361

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 511212

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.055	U	5.0	0.055	ug/L		04/15/18 10:25	04/16/18 10:54	1
Endrin	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 10:54	1
gamma-BHC (Lindane)	0.012	U	0.50	0.012	ug/L		04/15/18 10:25	04/16/18 10:54	1
Heptachlor	0.0030	U	0.50	0.0030	ug/L		04/15/18 10:25	04/16/18 10:54	1
Heptachlor epoxide	0.0050	U	0.50	0.0050	ug/L		04/15/18 10:25	04/16/18 10:54	1
Methoxychlor	0.0040	U	0.50	0.0040	ug/L		04/15/18 10:25	04/16/18 10:54	1
Toxaphene	0.11	U	5.0	0.11	ug/L		04/15/18 10:25	04/16/18 10:54	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 150*	*04/15/18 10:25*	*04/16/18 10:54*	*1*
DCB Decachlorobiphenyl	*73*		*10 - 150*	*04/15/18 10:25*	*04/16/18 10:54*	*1*
Tetrachloro-m-xylene	*69*		*12 - 136*	*04/15/18 10:25*	*04/16/18 10:54*	*1*
Tetrachloro-m-xylene	*65*		*12 - 136*	*04/15/18 10:25*	*04/16/18 10:54*	*1*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-511289/1-A
Matrix: Solid
Analysis Batch: 511359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	5.0	U	83	5.0	ug/L		04/16/18 00:41	04/16/18 08:43	1
Silvex (2,4,5-TP)	4.0	U	83	4.0	ug/L		04/16/18 00:41	04/16/18 08:43	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 460-511289/1-A
Matrix: Solid
Analysis Batch: 511359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511289

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	110		54 - 150	04/16/18 00:41	04/16/18 08:43	1
2,4-Dichlorophenylacetic acid	107		54 - 150	04/16/18 00:41	04/16/18 08:43	1

Lab Sample ID: LCS 460-511289/2-A
Matrix: Solid
Analysis Batch: 511359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511289

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			267	351	*	ug/L		132	48 - 119		
2,4-D			267	247		ug/L		93	48 - 119		
Silvex (2,4,5-TP)			66.7	97.0		ug/L		145	76 - 150		
Silvex (2,4,5-TP)			66.7	87.6		ug/L		131	76 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	113		54 - 150
2,4-Dichlorophenylacetic acid	117		54 - 150

Lab Sample ID: 460-153622-I-22-H MS
Matrix: Solid
Analysis Batch: 511359

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 511289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	5.0	U * F1	267	397	F1	ug/L		149	48 - 119		
2,4-D	5.0	U	267	258	p	ug/L		97	48 - 119		
Silvex (2,4,5-TP)	4.0	U	66.7	101	F1	ug/L		151	76 - 150		
Silvex (2,4,5-TP)	4.0	U F1	66.7	87.7		ug/L		132	76 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	114		54 - 150
2,4-Dichlorophenylacetic acid	122		54 - 150

Lab Sample ID: 460-153622-I-22-I MSD
Matrix: Solid
Analysis Batch: 511359

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 511289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	5.0	U * F1	267	431	F1	ug/L		162	48 - 119	8	30
2,4-D	5.0	U	267	277	p	ug/L		104	48 - 119	7	30
Silvex (2,4,5-TP)	4.0	U	66.7	107	F1	ug/L		160	76 - 150	6	30
Silvex (2,4,5-TP)	4.0	U F1	66.7	91.8		ug/L		138	76 - 150	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	126		54 - 150
2,4-Dichlorophenylacetic acid	129		54 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-511164/1-A ^5
Matrix: Solid
Analysis Batch: 511442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21.8	U	75.0	21.8	ug/L		04/14/15 21:30	04/16/18 13:16	5
Barium	43.2	U	1000	43.2	ug/L		04/14/15 21:30	04/16/18 13:16	5
Cadmium	9.2	U	20.0	9.2	ug/L		04/14/15 21:30	04/16/18 13:16	5
Chromium	16.6	U	50.0	16.6	ug/L		04/14/15 21:30	04/16/18 13:16	5
Lead	20.4	U	50.0	20.4	ug/L		04/14/15 21:30	04/16/18 13:16	5
Selenium	22.2	U	100	22.2	ug/L		04/14/15 21:30	04/16/18 13:16	5
Silver	9.0	U	50.0	9.0	ug/L		04/14/15 21:30	04/16/18 13:16	5

Lab Sample ID: LCS 460-511164/2-A ^5
Matrix: Solid
Analysis Batch: 511442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5000	4806		ug/L		96	80 - 120
Barium	10000	10370		ug/L		104	80 - 120
Cadmium	1000	1046		ug/L		105	80 - 120
Chromium	5000	5265		ug/L		105	80 - 120
Lead	5000	5200		ug/L		104	80 - 120
Selenium	1000	968.5		ug/L		97	80 - 120
Silver	500	478.6		ug/L		96	80 - 120

Lab Sample ID: LB 460-511103/1-B ^5
Matrix: Solid
Analysis Batch: 511442

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 511164

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21.8	U	75.0	21.8	ug/L		04/14/15 21:30	04/16/18 14:45	5
Barium	43.2	U	1000	43.2	ug/L		04/14/15 21:30	04/16/18 14:45	5
Cadmium	9.2	U	20.0	9.2	ug/L		04/14/15 21:30	04/16/18 14:45	5
Chromium	16.6	U	50.0	16.6	ug/L		04/14/15 21:30	04/16/18 14:45	5
Lead	20.4	U	50.0	20.4	ug/L		04/14/15 21:30	04/16/18 14:45	5
Selenium	22.2	U	100	22.2	ug/L		04/14/15 21:30	04/16/18 14:45	5
Silver	9.0	U	50.0	9.0	ug/L		04/14/15 21:30	04/16/18 14:45	5

Lab Sample ID: 460-153622-I-22-E MS ^5
Matrix: Solid
Analysis Batch: 511442

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 511164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	21.8	U	5000	5085		ug/L		102	75 - 125
Barium	349	J	10000	10830		ug/L		105	75 - 125
Cadmium	9.2	U	1000	1062		ug/L		106	75 - 125
Chromium	16.6	U	5000	5355		ug/L		107	75 - 125
Lead	54.4		5000	5295		ug/L		105	75 - 125
Selenium	22.2	U	1000	1054		ug/L		105	75 - 125
Silver	9.0	U	500	498.6		ug/L		100	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 460-153622-I-22-D DU ^5
Matrix: Solid
Analysis Batch: 511442

Client Sample ID: Duplicate
Prep Type: TCLP
Prep Batch: 511164

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	21.8	U	21.8	U	ug/L		NC	20
Barium	349	J	373.2	J	ug/L		7	20
Cadmium	9.2	U	9.2	U	ug/L		NC	20
Chromium	16.6	U	16.6	U	ug/L		NC	20
Lead	54.4		61.85		ug/L		13	20
Selenium	22.2	U	22.2	U	ug/L		NC	20
Silver	9.0	U	9.0	U	ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-511409/1-A
Matrix: Solid
Analysis Batch: 511457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		04/16/18 12:16	04/16/18 14:30	1

Lab Sample ID: LCS 460-511409/2-A
Matrix: Solid
Analysis Batch: 511457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.72		ug/L		94	80 - 120

Lab Sample ID: LB 460-511103/1-F
Matrix: Solid
Analysis Batch: 511457

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 511409

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		04/16/18 12:17	04/16/18 15:24	1

Lab Sample ID: 460-153677-D-8-I MS
Matrix: Solid
Analysis Batch: 511457

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 511409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.17	U	5.00	4.90		ug/L		98	75 - 125

Lab Sample ID: 460-153677-D-8-H DU
Matrix: Solid
Analysis Batch: 511457

Client Sample ID: Duplicate
Prep Type: TCLP
Prep Batch: 511409

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.17	U	0.17	U	ug/L		NC	20

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

GC/MS Semi VOA

Leach Batch: 511103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	1311	
LB 460-511103/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 511212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-511103/1-D	Method Blank	TCLP	Solid	3510C	511103

Prep Batch: 511220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	3510C	511103
LB 460-511103/1-D	Method Blank	TCLP	Solid	3510C	511212
MB 460-511220/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 460-511220/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 460-511220/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 511320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	8270D	511220
LB 460-511103/1-D	Method Blank	TCLP	Solid	8270D	511220
MB 460-511220/1-A	Method Blank	Total/NA	Solid	8270D	511220
LCS 460-511220/2-A	Lab Control Sample	Total/NA	Solid	8270D	511220
LCSD 460-511220/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	511220

GC Semi VOA

Leach Batch: 511103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	1311	
LB 460-511103/1-C	Method Blank	TCLP	Solid	1311	
460-153622-I-22-H MS	Matrix Spike	TCLP	Solid	1311	
460-153622-I-22-I MSD	Matrix Spike Duplicate	TCLP	Solid	1311	

Prep Batch: 511212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	3510C	511103
LB 460-511103/1-C	Method Blank	TCLP	Solid	3510C	511103
MB 460-511212/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 460-511212/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 460-511212/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 511289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	8151A	511103
MB 460-511289/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 460-511289/2-A	Lab Control Sample	Total/NA	Solid	8151A	
460-153622-I-22-H MS	Matrix Spike	TCLP	Solid	8151A	511103
460-153622-I-22-I MSD	Matrix Spike Duplicate	TCLP	Solid	8151A	511103

GC Semi VOA (Continued)

Analysis Batch: 511359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	8151A	511289
MB 460-511289/1-A	Method Blank	Total/NA	Solid	8151A	511289
LCS 460-511289/2-A	Lab Control Sample	Total/NA	Solid	8151A	511289
460-153622-I-22-H MS	Matrix Spike	TCLP	Solid	8151A	511289
460-153622-I-22-I MSD	Matrix Spike Duplicate	TCLP	Solid	8151A	511289

Analysis Batch: 511361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	8081B	511212
LB 460-511103/1-C	Method Blank	TCLP	Solid	8081B	511212
MB 460-511212/1-A	Method Blank	Total/NA	Solid	8081B	511212
LCS 460-511212/2-A	Lab Control Sample	Total/NA	Solid	8081B	511212
LCSD 460-511212/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	511212

Metals

Leach Batch: 511103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	1311	
LB 460-511103/1-B ^5	Method Blank	TCLP	Solid	1311	
LB 460-511103/1-F	Method Blank	TCLP	Solid	1311	
460-153622-I-22-E MS ^5	Matrix Spike	TCLP	Solid	1311	
460-153677-D-8-I MS	Matrix Spike	TCLP	Solid	1311	
460-153622-I-22-D DU ^5	Duplicate	TCLP	Solid	1311	
460-153677-D-8-H DU	Duplicate	TCLP	Solid	1311	

Prep Batch: 511164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	3010A	511103
LB 460-511103/1-B ^5	Method Blank	TCLP	Solid	3010A	511103
MB 460-511164/1-A ^5	Method Blank	Total/NA	Solid	3010A	
LCS 460-511164/2-A ^5	Lab Control Sample	Total/NA	Solid	3010A	
460-153622-I-22-E MS ^5	Matrix Spike	TCLP	Solid	3010A	511103
460-153622-I-22-D DU ^5	Duplicate	TCLP	Solid	3010A	511103

Prep Batch: 511409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	7470A	511103
LB 460-511103/1-F	Method Blank	TCLP	Solid	7470A	511103
MB 460-511409/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 460-511409/2-A	Lab Control Sample	Total/NA	Solid	7470A	
460-153677-D-8-I MS	Matrix Spike	TCLP	Solid	7470A	511103
460-153677-D-8-H DU	Duplicate	TCLP	Solid	7470A	511103

Analysis Batch: 511442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	6010C	511164
LB 460-511103/1-B ^5	Method Blank	TCLP	Solid	6010C	511164
MB 460-511164/1-A ^5	Method Blank	Total/NA	Solid	6010C	511164
LCS 460-511164/2-A ^5	Lab Control Sample	Total/NA	Solid	6010C	511164

Metals (Continued)

Analysis Batch: 511442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153622-I-22-E MS ^5	Matrix Spike	TCLP	Solid	6010C	511164
460-153622-I-22-D DU ^5	Duplicate	TCLP	Solid	6010C	511164

Analysis Batch: 511457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-153774-1	AshPit	TCLP	Solid	7470A	511409
LB 460-511103/1-F	Method Blank	TCLP	Solid	7470A	511409
MB 460-511409/1-A	Method Blank	Total/NA	Solid	7470A	511409
LCS 460-511409/2-A	Lab Control Sample	Total/NA	Solid	7470A	511409
460-153677-D-8-I MS	Matrix Spike	TCLP	Solid	7470A	511409
460-153677-D-8-H DU	Duplicate	TCLP	Solid	7470A	511409

Lab Chronicle

Client: PW Grosser Consulting
Project/Site: Suffolk County Firematics Site

TestAmerica Job ID: 460-153774-1

Client Sample ID: AshPit

Date Collected: 04/11/18 11:45
Date Received: 04/11/18 19:00

Lab Sample ID: 460-153774-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			511103	04/13/18 15:00	YXG	TAL EDI
TCLP	Prep	3510C			511220	04/15/18 12:48	MIS	TAL EDI
TCLP	Analysis	8270D		1	511320	04/16/18 11:44	DAN	TAL EDI
TCLP	Leach	1311			511103	04/13/18 15:00	YXG	TAL EDI
TCLP	Prep	3510C			511212	04/15/18 10:25	GXY	TAL EDI
TCLP	Analysis	8081B		1	511361	04/16/18 10:41	SAK	TAL EDI
TCLP	Leach	1311			511103	04/13/18 15:00	YXG	TAL EDI
TCLP	Prep	8151A			511289	04/16/18 00:41	AFR	TAL EDI
TCLP	Analysis	8151A		1	511359	04/16/18 10:57	SAK	TAL EDI
TCLP	Prep	3010A			511164	04/14/15 21:30	GAE	TAL EDI
TCLP	Leach	1311			511103	04/13/18 15:00	YXG	TAL EDI
TCLP	Analysis	6010C		5	511442	04/16/18 14:37	MDC	TAL EDI
TCLP	Leach	1311			511103	04/13/18 15:00	YXG	TAL EDI
TCLP	Prep	7470A			511409	04/16/18 12:16	RBS	TAL EDI
TCLP	Analysis	7470A		1	511457	04/16/18 15:08	RBS	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: PW Grosser Consulting
TestAmerica Job ID: 460-153774-1
Project/Site: Suffolk County Firematics Site

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury

8270D

Semivolatile Organic Compounds (GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
AshPit	460-153774-1	40	24	92	91	100	74
	MB 460-511220/1-A	35	23	91	89	103	92
	LB 460-511103/1-D	42	25	95	94	103	89
	LCS 460-511220/2-A	46	30	97	98	113	96
	LCSD 460-511220/3-A	44	29	94	97	110	93

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	25-58
PHL = Phenol-d5 (Surr)	14-39
NBZ = Nitrobenzene-d5 (Surr)	51-108
FBP = 2-Fluorobiphenyl	45-107
TBP = 2,4,6-Tribromophenol (Surr)	26-139
TPHL = Terphenyl-d14 (Surr)	40-148

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P01553.D

Lab ID: LCS 460-511220/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dichlorobenzene	80.0	53.1	66	42-94	
2,4,5-Trichlorophenol	80.0	84.4	106	59-117	
2,4,6-Trichlorophenol	80.0	87.0	109	62-120	
2,4-Dinitrotoluene	80.0	86.7	108	70-123	
2-Methylphenol	80.0	53.7	67	43-80	
3 & 4 Methylphenol	80.0	44.3	55	34-77	
Hexachlorobenzene	80.0	84.7	106	63-125	
Hexachlorobutadiene	80.0	50.3	63	34-99	
Hexachloroethane	80.0	42.4	53	39-92	
Nitrobenzene	80.0	76.8	96	56-106	
Pentachlorophenol	160	164	103	54-120	
Pyridine	160	88.3	55	16-70	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P01554.D

Lab ID: LCSD 460-511220/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dichlorobenzene	80.0	51.9	65	2	30	42-94	
2,4,5-Trichlorophenol	80.0	82.0	102	3	30	59-117	
2,4,6-Trichlorophenol	80.0	84.6	106	3	30	62-120	
2,4-Dinitrotoluene	80.0	83.0	104	4	30	70-123	
2-Methylphenol	80.0	51.6	65	4	30	43-80	
3 & 4 Methylphenol	80.0	42.8	54	3	30	34-77	
Hexachlorobenzene	80.0	80.3	100	5	30	63-125	
Hexachlorobutadiene	80.0	50.2	63	0	30	34-99	
Hexachloroethane	80.0	42.1	53	1	30	39-92	
Nitrobenzene	80.0	72.1	90	6	30	56-106	
Pentachlorophenol	160	158	99	4	30	54-120	
Pyridine	160	84.4	53	4	30	16-70	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab File ID: P01552.D Lab Sample ID: MB 460-511220/1-A

Matrix: Water Date Extracted: 04/15/2018 12:48

Instrument ID: CBNAMS18 Date Analyzed: 04/16/2018 08:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-511220/2-A	P01553.D	04/16/2018 08:24
	LCSD 460-511220/3-A	P01554.D	04/16/2018 08:46
	LB 460-511103/1-D	P01557.D	04/16/2018 09:50
AshPit	460-153774-1	P01562.D	04/16/2018 11:44

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab File ID: P00966.D DFTPP Injection Date: 03/27/2018

Instrument ID: CBNAMS18 DFTPP Injection Time: 22:15

Analysis Batch No.: 506381

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	36.7	
68	Less than 2.0 % of mass 69	0.1	(0.3) 1
69	Mass 69 relative abundance	38.4	
70	Less than 2.0 % of mass 69	0.2	(0.4) 1
127	40.0 - 60.0 % of mass 198	50.5	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	28.9	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	15.6	(84.0) 3
442	Greater than 40.0 % of mass 198	95.4	
443	17.0 - 23.0 % of mass 442	18.5	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-506381/2	P00967.D	03/27/2018	22:48
	STD24 460-506381/3	P00968.D	03/27/2018	23:23
	STD16 460-506381/4	P00969.D	03/27/2018	23:44
	STD4 460-506381/5	P00970.D	03/28/2018	00:05
	STD2 460-506381/6	P00971.D	03/28/2018	00:26
	STD1 460-506381/7	P00972.D	03/28/2018	00:47
	STD02 460-506381/8	P00973.D	03/28/2018	01:08
	STD01 460-506381/9	P00974.D	03/28/2018	01:29

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab File ID: P01547.D DFTPP Injection Date: 04/16/2018

Instrument ID: CBNAMS18 DFTPP Injection Time: 06:01

Analysis Batch No.: 511320

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.1	
68	Less than 2.0 % of mass 69	0.2	(0.4) 1
69	Mass 69 relative abundance	35.4	
70	Less than 2.0 % of mass 69	0.2	(0.6) 1
127	40.0 - 60.0 % of mass 198	46.8	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.5	
275	10.0 - 30.0 % of mass 198	29.3	
365	Greater than 1.0 % of mass 198	3.7	
441	Present but less than mass 443	16.7	(90.6) 3
442	Greater than 40.0 % of mass 198	101.7	
443	17.0 - 23.0 % of mass 442	18.4	(18.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-511320/2	P01548.D	04/16/2018	06:25
	MB 460-511220/1-A	P01552.D	04/16/2018	08:04
	LCS 460-511220/2-A	P01553.D	04/16/2018	08:24
	LCSD 460-511220/3-A	P01554.D	04/16/2018	08:46
	LB 460-511103/1-D	P01557.D	04/16/2018	09:50
AshPit	460-153774-1	P01562.D	04/16/2018	11:44

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Sample No.: CCVIS 460-511320/2 Date Analyzed: 04/16/2018 06:25

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P01548.D Heated Purge: (Y/N) N

Calibration ID: 67275

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		209469	4.27	797812	5.48	339084	7.14
UPPER LIMIT		418938	4.77	1595624	5.98	678168	7.64
LOWER LIMIT		104735	3.77	398906	4.98	169542	6.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-511220/1-A		185518	4.26	696780	5.47	322908	7.14
LCS 460-511220/2-A		207731	4.26	765823	5.48	337972	7.14
LCSD 460-511220/3-A		233390	4.26	858454	5.48	376668	7.14
LB 460-511103/1-D		218336	4.26	809491	5.47	364421	7.14
460-153774-1	AshPit	236431	4.26	876070	5.47	382906	7.14

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Sample No.: CCVIS 460-511320/2 Date Analyzed: 04/16/2018 06:25

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): P01548.D Heated Purge: (Y/N) N

Calibration ID: 67275

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		637920	8.54	546967	11.13	476205	12.96
UPPER LIMIT		1275840	9.04	1093934	11.63	952410	13.46
LOWER LIMIT		318960	8.04	273484	10.63	238103	12.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-511220/1-A		654874	8.54	528878	11.12	473244	12.95
LCS 460-511220/2-A		629375	8.54	501879	11.13	469338	12.95
LCSD 460-511220/3-A		717167	8.54	569274	11.13	540029	12.95
LB 460-511103/1-D		718415	8.53	598669	11.12	566126	12.95
460-153774-1	AshPit	713014	8.54	559182	11.13	532157	12.95

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: AshPit | Lab Sample ID: 460-153774-1

Matrix: Solid (TCLP) | Lab File ID: P01562.D

Analysis Method: 8270D | Date Collected: 04/11/2018 11:45

Extract. Method: 3510C | Date Extracted: 04/15/2018 12:48

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 11:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 511320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	1.3	U	10	1.3
95-95-4	2,4,5-Trichlorophenol	0.30	U	10	0.30
88-06-2	2,4,6-Trichlorophenol	0.30	U	10	0.30
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
95-48-7	2-Methylphenol	0.30	U	10	0.30
15831-10-4	3 & 4 Methylphenol	0.20	U	10	0.20
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.80	U	2.0	0.80
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
98-95-3	Nitrobenzene	0.60	U	1.0	0.60
87-86-5	Pentachlorophenol	1.4	U	30	1.4
110-86-1	Pyridine	1.9	U	10	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	100		26-139
321-60-8	2-Fluorobiphenyl	91		45-107
367-12-4	2-Fluorophenol (Surr)	40		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	92		51-108
4165-62-2	Phenol-d5 (Surr)	24		14-39
1718-51-0	Terphenyl-d14 (Surr)	74		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01562.D
Lims ID: 460-153774-A-1-F
Client ID: AshPit
Sample Type: Client
Inject. Date: 16-Apr-2018 11:44:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-016
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 15:49:44 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 15:49:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.075	3.078	-0.003	96	157519	4.04	
$ 6 Phenol-d5	99	3.963	3.968	-0.005	99	112891	2.41	
* 14 1,4-Dichlorobenzene-d4	152	4.260	4.265	-0.005	95	236431	8.00	
$ 27 Nitrobenzene-d5	82	4.790	4.793	-0.003	88	357070	9.21	
* 38 Naphthalene-d8	136	5.473	5.476	-0.003	99	876070	8.00	
$ 51 2-Fluorobiphenyl	172	6.505	6.506	-0.001	97	715248	9.13	
* 64 Acenaphthene-d10	164	7.137	7.142	-0.005	98	382906	8.00	
$ 80 2,4,6-Tribromophenol	330	7.885	7.891	-0.006	93	113262	10.0	
* 87 Phenanthrene-d10	188	8.535	8.540	-0.005	98	713014	8.00	
$ 96 Terphenyl-d14	244	10.046	10.049	-0.003	100	616192	7.43	
* 102 Chrysene-d12	240	11.125	11.132	-0.007	99	559182	8.00	
* 109 Perylene-d12	264	12.951	12.958	-0.007	99	532157	8.00	

Reagents:

SM_ISTD_LVI_00173 Amount Added: 20.00 Units: uL Run Reagent

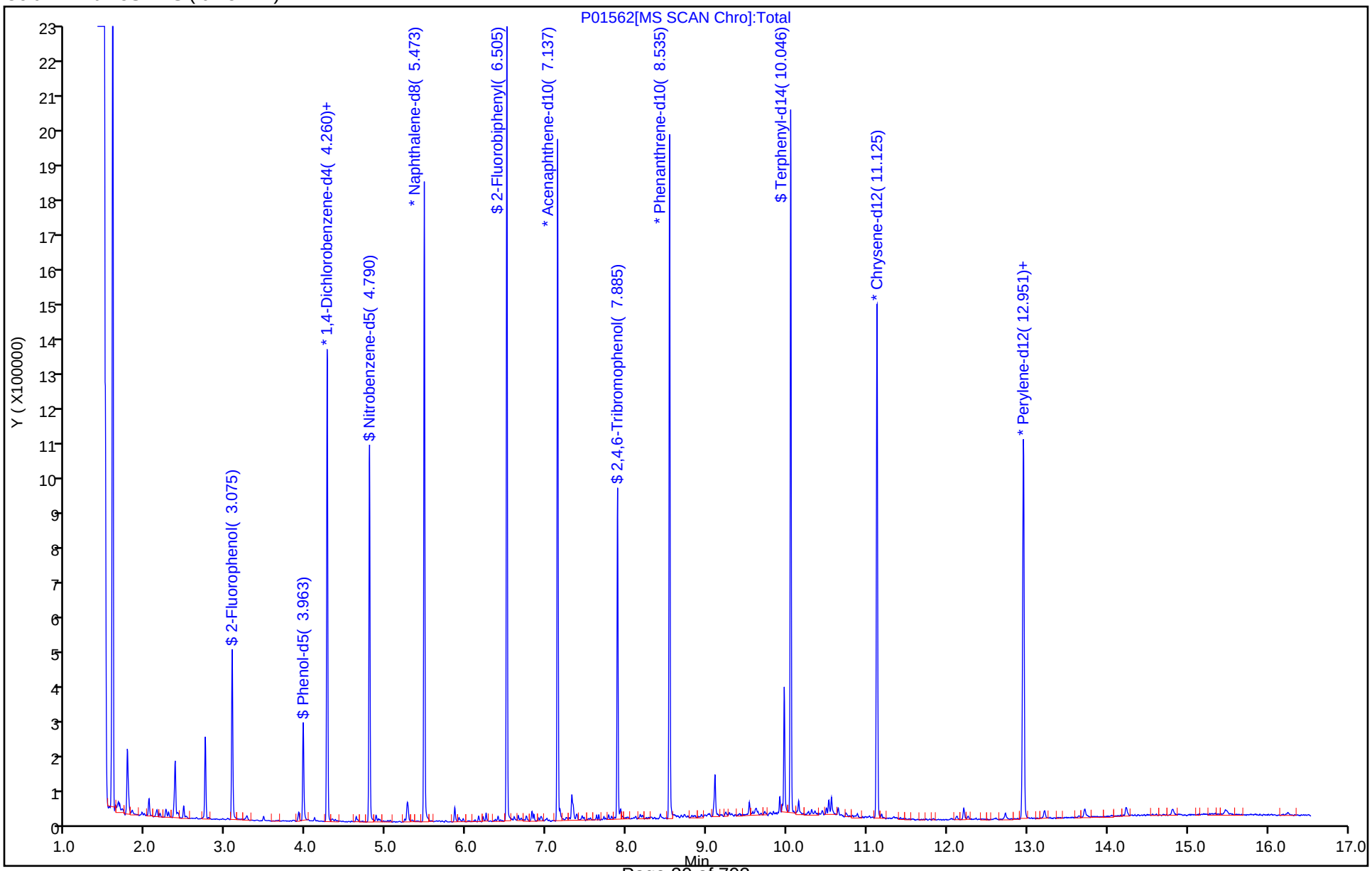
Report Date: 16-Apr-2018 15:49:44 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01562.D

Injection Date:	16-Apr-2018 11:44:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	460-153774-A-1-F	Lab Sample ID:	460-153774-1	Worklist Smp#:	16
Client ID:	AshPit				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



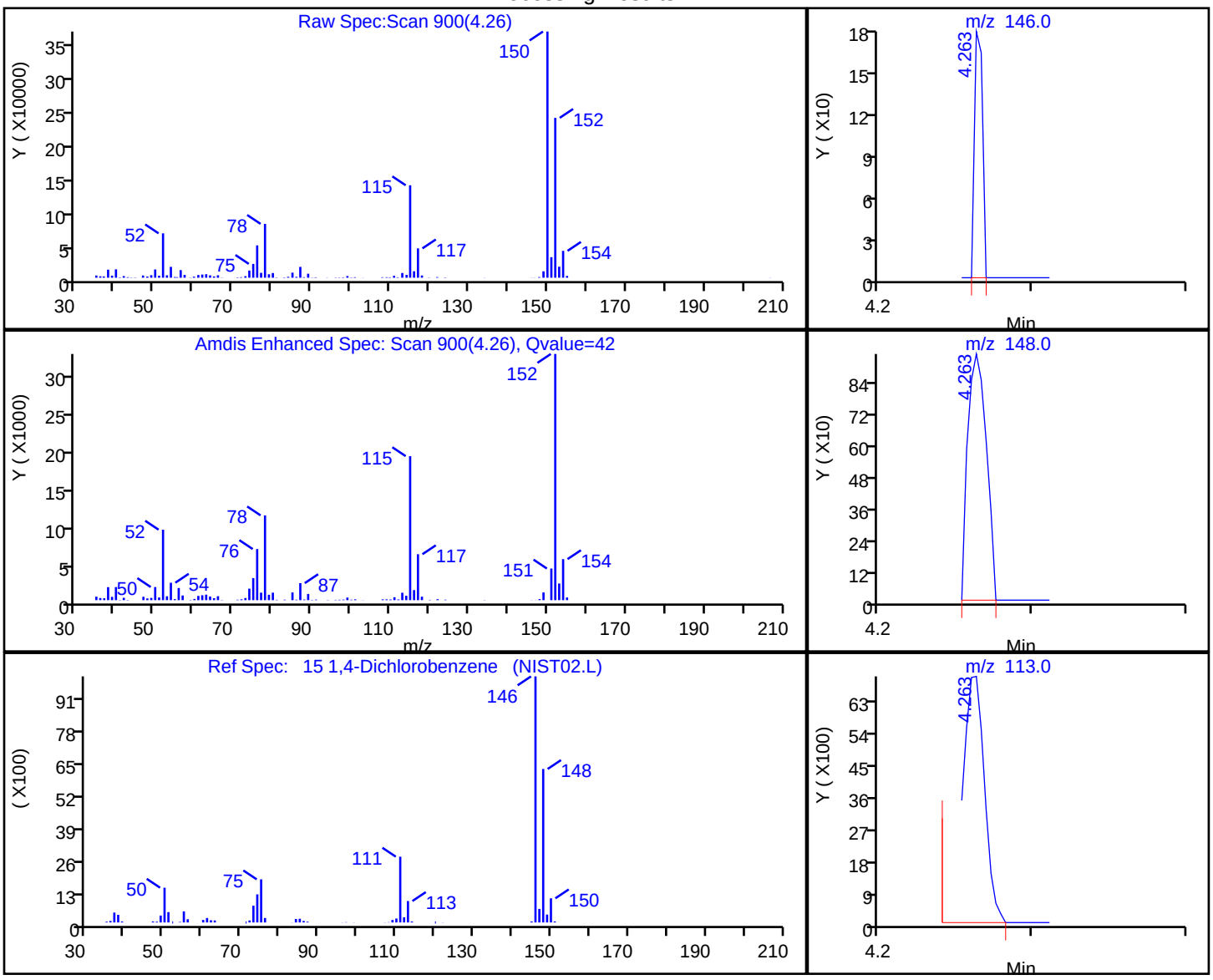
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01562.D				
Injection Date:	16-Apr-2018 11:44:30	Instrument ID:	CBNAMS18		
Lims ID:	460-153774-A-1-F	Lab Sample ID:	460-153774-1		
Client ID:	AshPit				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
4.26	146.00	64	0.001366
4.26	148.00	797	
4.26	113.00	6945	

Reviewer: croccom, 16-Apr-2018 14:54:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-506381/9	P00974.D
Level 2	STD02 460-506381/8	P00973.D
Level 3	STD1 460-506381/7	P00972.D
Level 4	STD2 460-506381/6	P00971.D
Level 5	STD4 460-506381/5	P00970.D
Level 6	ICIS 460-506381/2	P00967.D
Level 7	STD16 460-506381/4	P00969.D
Level 8	STD24 460-506381/3	P00968.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4475	0.4707	0.4637 0.4706	0.4519	0.4335	Ave		0.4563				3.2		20.0			
N-Nitrosodimethylamine	0.7550	0.7938	0.7561 0.8069	0.7010	0.7045	Ave		0.7529				5.8		20.0			
Pyridine	1.2963	1.3782	1.1879 1.3792	1.1878	1.1910	Ave		1.2701				7.4		20.0			
Phenol	1.6267	1.7243	1.6277 1.7075	1.4896	1.5031	Ave		1.6131			0.8000	6.1		20.0			
Aniline	2.0401	2.1620	1.9634 2.1436	1.9134	1.8784	Ave		2.0168				5.9		20.0			
Bis(2-chloroethyl)ether	1.2778 1.2709	1.2713 1.3499	1.3478 1.3349	1.2214	1.2147	Ave		1.2861			0.7000	4.2		20.0			
2-Chlorophenol	1.4037	1.4926	1.3263 1.4643	1.3105	1.2606	Ave		1.3763			0.8000	6.7		20.0			
n-Decane	1.3595	1.4285	1.4240 1.4046	1.3134	1.2577	Ave		1.3646				5.0		20.0			
1,3-Dichlorobenzene	1.5748	1.6562	1.6173 1.6605	1.4807	1.4829	Ave		1.5787				5.1		20.0			
1,4-Dichlorobenzene	1.5892	1.6819	1.6044 1.6549	1.5197	1.4596	Ave		1.5849				5.3		20.0			
Benzyl alcohol	0.8703	0.9278	0.8218 0.9183	0.8023	0.8078	Ave		0.8580				6.5		20.0			
1,2-Dichlorobenzene	1.5014	1.6123	1.5015 1.5900	1.3915	1.3869	Ave		1.4973				6.4		20.0			
2-Methylphenol	1.2011	1.2766	1.1887 1.2591	1.1507	1.1298	Ave		1.2010			0.7000	4.8		20.0			
2,2'-oxybis[1-chloropropane]	1.8069	1.8976	1.8628 1.8696	1.6998	1.7189	Ave		1.8093			0.0100	4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Methylaniline	1.0916 2.0123	1.8222 2.0784	1.9194 2.1114	1.7951	1.9085	QuaF		1.9433	0.0072220						1.0000		0.9900
3 & 4 Methylphenol	1.3436	1.4473	1.4047 1.3984	1.2701	1.2793	Ave		1.3572				5.3		20.0			
4-Methylphenol	1.3423	1.4445	1.4047 1.3935	1.2701	1.2793	Ave		1.3557			0.6000	5.2		20.0			
N-Nitrosodi-n-propylamine	1.0426 0.9515	1.0143 1.0427	1.0302 1.0112	0.9378	0.9645	Ave		0.9994			0.5000	4.2		20.0			
Acetophenone	1.8970	2.0021	1.9808 1.9515	1.8236	1.8142	Ave		1.9115			0.0100	4.2		20.0			
Hexachloroethane	0.5781 0.5668	0.7311 0.6169	0.5781 0.6126	0.5489	0.5455	Ave		0.5972			0.3000	10.0		20.0			
Nitrobenzene	0.7296 0.6505	0.5502 0.7091	0.6567 0.6855	0.6167	0.6347	Ave		0.6541			0.2000	8.6		20.0			
n,n'-Dimethylaniline	2.1374 2.2436	2.1376 2.2398	2.1108 2.2849	1.9133	2.0180	Ave		2.1357				5.8		20.0			
Isophorone	0.5962	0.5839 0.6263	0.5977 0.6073	0.5439	0.5572	Ave		0.5875			0.4000	4.9		20.0			
2-Nitrophenol	0.1725	0.1882	0.1622 0.1835	0.1568	0.1708	Ave		0.1723			0.1000	7.0		20.0			
2,4-Dimethylphenol	0.2922	0.3065	0.2846 0.3041	0.2759	0.2712	Ave		0.2891			0.2000	5.0		20.0			
Benzoic acid	0.1511	0.1805	0.1255 0.1772	0.1181	0.1390	Ave		0.1486				17.5		20.0			
Bis(2-chloroethoxy)methane	0.3844	0.4054	0.3916 0.3980	0.3691	0.3652	Ave		0.3856			0.3000	4.1		20.0			
2,4-Dichlorophenol	0.2763	0.2927	0.2681 0.2890	0.2504	0.2512	Ave		0.2713			0.2000	6.7		20.0			
1,2,4-Trichlorobenzene	0.3195 0.3173	0.2919 0.3353	0.3129 0.3290	0.3057	0.2940	Ave		0.3132				4.9		20.0			
Naphthalene	0.9911	1.0575	0.9784 1.0379	0.9204	0.9154	Ave		0.9835			0.7000	6.0		20.0			
4-Chloroaniline	0.4167	0.4329	0.4152 0.4255	0.3833	0.3806	Ave		0.4091			0.0100	5.4		20.0			
Hexachlorobutadiene	0.1979 0.1856	0.2122 0.1936	0.1896 0.1885	0.1681	0.1688	Ave		0.1880			0.0100	7.8		20.0			
4-Chloro-3-methylphenol	0.2772	0.2930	0.2584 0.2806	0.2547	0.2557	Ave		0.2699			0.2000	5.9		20.0			
2-Methylnaphthalene	0.7047	0.7048 0.7381	0.6853 0.7082	0.6574	0.6546	Ave		0.6933			0.4000	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6625	0.6968	0.6651 0.6757	0.6156	0.6072	Ave		0.6538				5.4		20.0			
Hexachlorocyclopentadiene	0.4946	0.5307	0.4681 0.5356	0.4317	0.4417	Ave		0.4837			0.0500	9.1		20.0			
1,2,4,5-Tetrachlorobenzene	0.6851	0.7139	0.6666 0.7320	0.6266	0.6240	Ave		0.6747			0.0100	6.6		20.0			
2-tertbutyl-4-methylphenol	0.4619	0.4483 0.4635	0.4275 0.4600	0.3921	0.4075	Ave		0.4373				6.6		20.0			
2,4,6-Trichlorophenol	0.4317	0.4535	0.3967 0.4565	0.3935	0.3962	Ave		0.4214			0.2000	7.0		20.0			
2,4,5-Trichlorophenol	0.4774	0.4935	0.4226 0.4949	0.4090	0.4261	Ave		0.4539			0.2000	8.6		20.0			
1,1'-Biphenyl	1.7832	1.8718	1.7313 1.8645	1.6236	1.6143	Ave		1.7481			0.0100	6.5		20.0			
2-Chloronaphthalene	1.3521	1.4023	1.3287 1.4165	1.2295	1.2148	Ave		1.3240			0.8000	6.4		20.0			
Phenyl ether	0.9372	0.9178	0.8909 0.9556	0.7906	0.7985	Ave		0.8818				8.0		20.0			
2-Nitroaniline	0.4458	0.4528	0.4389 0.4488	0.4007	0.3986	Ave		0.4309			0.0100	5.7		20.0			
1,3-Dimethylnaphthalene	1.1431	1.1314	1.0706 1.1697	0.9676	1.0074	Ave		1.0816				7.5		20.0			
Dimethyl phthalate	1.5145	1.5337	1.5437 1.5119	1.4590	1.4277	Ave		1.4984			0.0100	3.0		20.0			
Coumarin	0.2266	0.2162	0.2335 0.2094	0.2104	0.2073	Ave		0.2172				4.9		20.0			
2,6-Dinitrotoluene	0.3412	0.3061 0.3460	0.3106 0.3337	0.3077	0.3074	Ave		0.3218			0.2000	5.5		20.0			
Acenaphthylene	2.0405	2.0804	1.9228 2.0805	1.8624	1.8371	Ave		1.9706			0.9000	5.6		20.0			
3-Nitroaniline	0.3610	0.3755	0.3662 0.3624	0.3555	0.3410	Ave		0.3603			0.0100	3.2		20.0			
3,5-di-tert-butyl-4-hydroxytol	1.3493	1.3377	1.2828 1.3961	1.1488	1.1839	Ave		1.2831				7.6		20.0			
Acenaphthene	1.3120	1.3619	1.4599 1.3633	1.3873	1.3114	Ave		1.3660			0.9000	4.0		20.0			
2,4-Dinitrophenol	0.1988	0.2231	0.1627 0.2129	0.1650	0.1727	Ave		0.1892			0.0100	13.7		20.0			
4-Nitrophenol	0.2518	0.2655	0.2577 0.2485	0.2431	0.2362	Ave		0.2505			0.0100	4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dinitrotoluene	0.4458	0.4424 0.4506	0.4284 0.4376	0.4133	0.4164	Ave		0.4335			0.2000	3.3		20.0			
Dibenzofuran	1.9202	1.9838	1.8842 1.9519	1.7987	1.7243	Ave		1.8772			0.8000	5.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3897	0.4169	0.3839 0.4019	0.3528	0.3546	Ave		0.3833			0.0100	6.7		20.0			
Diethyl phthalate	1.5553	1.5906	1.6025 1.5370	1.4872	1.4577	Ave		1.5384			0.0100	3.7		20.0			
4-Chlorophenyl phenyl ether	0.7265	0.7524	0.7646 0.7335	0.7234	0.6885	Ave		0.7315			0.4000	3.6		20.0			
Fluorene	1.4852	1.5228	1.4965 1.4911	1.4141	1.3693	Ave		1.4632			0.9000	4.0		20.0			
4-Nitroaniline	0.3676	0.3692	0.3589 0.3533	0.3414	0.3405	Ave		0.3552			0.0100	3.5		20.0			
4,6-Dinitro-2-methylphenol	0.1180	0.1335	0.0975 0.1332	0.0995	0.1077	Ave		0.1149			0.0100	13.9		20.0			
N-Nitrosodiphenylamine	0.5787	0.6272	0.5675 0.6237	0.5325	0.5400	Ave		0.5783			0.0100	7.0		20.0			
1,2-Diphenylhydrazine	0.7512	0.8313	0.7251 0.8218	0.6811	0.6831	Ave		0.7489				8.8		20.0			
4-Bromophenyl phenyl ether	0.2451	0.2692	0.2325 0.2663	0.2182	0.2331	Ave		0.2441			0.1000	8.3		20.0			
Hexachlorobenzene	0.3118 0.2673	0.2277 0.2792	0.2693 0.2785	0.2450	0.2433	Ave		0.2653			0.1000	9.9		20.0			
Pentachlorophenol	0.1551	0.1658	0.1317 0.1666	0.1322	0.1400	Ave		0.1486			0.0500	10.8		20.0			
Pentachloronitrobenzene	0.1142	0.1165	0.1088 0.1168	0.0988	0.1028	Ave		0.1096			0.0100	6.9		20.0			
n-Octadecane	0.5735	0.6373	0.5376 0.6249	0.5128	0.5261	Ave		0.5687				9.2		20.0			
Phenanthrene	1.1526	1.2044	1.1622 1.1873	1.0951	1.0653	Ave		1.1445			0.7000	4.7		20.0			
Anthracene	1.1707	1.2455	1.1735 1.2379	1.0807	1.0853	Ave		1.1656			0.7000	6.1		20.0			
Carbazole	0.9637	1.0248	0.9622 0.9932	0.9242	0.9018	Ave		0.9616			0.0100	4.6		20.0			
Di-n-butyl phthalate	1.2769	1.3431	1.2315 1.3133	1.1720	1.1731	Ave		1.2517			0.0100	5.7		20.0			
Fluoranthene	1.0938	1.1615	1.1392 1.1283	1.0471	1.0402	Ave		1.1017			0.6000	4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzidine	0.5801	0.6574	0.3450 0.6495	0.4488	0.5210	Lin2	-0.314	0.6358			0.0100				0.9950		0.9900
Pyrene	1.4750	1.5498	1.5318 1.4924	1.5103	1.4416	Ave		1.5002			0.6000	2.6		20.0			
Bisphenol-A	0.5728	0.6497	0.4930 0.6474	0.5257	0.5349	Ave		0.5706				11.5		20.0			
Butyl benzyl phthalate	0.5772	0.6307	0.5511 0.6208	0.5585	0.5523	Ave		0.5818			0.0100	6.1		20.0			
2,3,7,8-TCDD	0.1632					Ave		0.1632						20.0			
Carbamazepine	0.4036	0.5176	0.3225 0.5321	0.3254	0.3760	Qua	-0.207	0.4117	0.0056035						0.9960		0.9900
3,3'-Dichlorobenzidine	0.4265	0.2991 0.4958	0.3881 0.5075	0.3583	0.4030	Ave		0.4112			0.0100	17.9		20.0			
Benzo[a]anthracene	1.4668 1.1314	1.2236 1.2807	1.1570 1.2581	1.1443	1.1194	Ave		1.2227			0.8000	9.5		20.0			
Chrysene	1.0681	1.1070 1.2237	1.1425 1.1863	1.0679	1.0496	Ave		1.1207			0.7000	5.9		20.0			
Bis(2-ethylhexyl) phthalate	0.7785	0.6693 0.8950	0.7310 0.8773	0.7476	0.7529	Ave		0.7788			0.0100	10.4		20.0			
Di-n-octyl phthalate	1.3297	1.4932	1.1657 1.4265	1.2136	1.2538	Ave		1.3137			0.0100	9.7		20.0			
Benzo[b]fluoranthene	1.2010	1.2048 1.2774	1.1786 1.2574	1.1499	1.1366	Ave		1.2008			0.7000	4.3		20.0			
Benzo[k]fluoranthene	1.3080 1.2276	1.2428 1.3067	1.2227 1.2909	1.1315	1.1897	Ave		1.2400			0.7000	5.0		20.0			
Benzo[a]pyrene	0.9656 1.1855	0.9978 1.2810	1.0629 1.2627	1.0596	1.0810	Ave		1.1120			0.7000	10.6		20.0			
Indeno[1,2,3-cd]pyrene	0.9652 1.1188	0.8595 1.2167	0.8842 1.2735	0.9160	0.9672	Ave		1.0251			0.5000	15.3		20.0			
Dibenz(a,h)anthracene	0.9245 1.1407	0.8905 1.2178	0.9858 1.2336	0.9759	1.0210	Ave		1.0487			0.4000	12.6		20.0			
Benzo[g,h,i]perylene	1.1512	1.2351	0.9755 1.2722	0.9557	1.0275	Ave		1.1029			0.5000	12.3		20.0			
2-Fluorophenol (Surr)	1.4566 1.2985	1.2682 1.3946	1.2992 1.4438	1.1833	1.2108	Ave		1.3194				7.8		20.0			
Phenol-d5 (Surr)	1.6141	1.5453 1.7247	1.5434 1.7603	1.4524	1.4668	Ave		1.5867				7.5		20.0			
Nitrobenzene-d5 (Surr)	0.4069 0.3510	0.3613 0.3680	0.3444 0.3696	0.3194	0.3129	Ave		0.3542				8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Fluorobiphenyl	1.6298	1.7470 1.7358	1.5717 1.8081	1.4915	1.4673	Ave		1.6359				8.1		20.0			
2,4,6-Tribromophenol (Surr)	0.2467	0.1976 0.2624	0.2228 0.2654	0.2259	0.2347	Ave		0.2365				10.1		20.0			
Terphenyl-d14 (Surr)	1.2860 1.0524	1.2258 1.2356	1.1837 1.2200	1.1627	1.1282	Ave		1.1868				6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-506381/9	P00974.D
Level 2	STD02 460-506381/8	P00973.D
Level 3	STD1 460-506381/7	P00972.D
Level 4	STD2 460-506381/6	P00971.D
Level 5	STD4 460-506381/5	P00970.D
Level 6	ICIS 460-506381/2	P00967.D
Level 7	STD16 460-506381/4	P00969.D
Level 8	STD24 460-506381/3	P00968.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	82793	132365	8865 205851	19271	36035	10.0	16.0	1.00 24.0	2.00	4.00
N-Nitrosodimethylamine	DCBd 4	Ave	139700	223234	14456 352939	29894	58559	10.0	16.0	1.00 24.0	2.00	4.00
Pyridine	DCBd 4	Ave	479725	775098	45424 1206563	101304	197996	20.0	32.0	2.00 48.0	4.00	8.00
Phenol	DCBd 4	Ave	300992	484895	31120 746881	63519	124937	10.0	16.0	1.00 24.0	2.00	4.00
Aniline	DCBd 4	Ave	377494	607981	37539 937627	81593	156131	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd 4	Ave	2429 235153	4982 379609	25768 583927	52084	100968	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Chlorophenol	DCBd 4	Ave	259725	419725	25358 640519	55884	104781	10.0	16.0	1.00 24.0	2.00	4.00
n-Decane	DCBd 4	Ave	251551	401699	27225 614394	56009	104542	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dichlorobenzene	DCBd 4	Ave	291380	465737	30921 726330	63141	123256	10.0	16.0	1.00 24.0	2.00	4.00
1,4-Dichlorobenzene	DCBd 4	Ave	294057	472951	30674 723865	64805	121320	10.0	16.0	1.00 24.0	2.00	4.00
Benzyl alcohol	DCBd 4	Ave	161026	260902	15712 401669	34213	67147	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Dichlorobenzene	DCBd 4	Ave	277799	453386	28708 695474	59339	115280	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylphenol	DCBd 4	Ave	222245	358989	22727 550732	49071	93908	10.0	16.0	1.00 24.0	2.00	4.00
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	334339	533623	35615 817797	72485	142878	10.0	16.0	1.00 24.0	2.00	4.00
N-Methylaniline	DCBd 4	QuaF	2075 372344	7141 584476	36698 923564	76546	158635	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3 & 4 Methylphenol	DCBd 4	Ave	248616	406989	26856 611695	54162	106335	10.0	16.0	1.00 24.0	2.00	4.00
4-Methylphenol	DCBd 4	Ave	248377	406193	26856 609537	54162	106335	10.0	16.0	1.00 24.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd 4	Ave	1982 176058	3975 293207	19696 442313	39992	80167	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acetophenone	DCBd 4	Ave	351006	563008	37871 853623	77762	150797	10.0	16.0	1.00 24.0	2.00	4.00
Hexachloroethane	DCBd 4	Ave	1099 104881	2865 173465	11053 267973	23406	45340	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene	DCBd 4	Ave	1387 120364	2156 199406	12556 299832	26298	52754	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
n,n'-Dimethylaniline	DCBd 4	Ave	4063 415137	8377 629851	40357 999431	81590	167738	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Isophorone	NPT	Ave	450877	9456 732070	48035 1119212	97273	194570	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Nitrophenol	NPT	Ave	130485	219958	13035 338198	28050	59628	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	220946	358216	22876 560520	49350	94699	10.0	16.0	1.00 24.0	2.00	4.00
Benzoic acid	NPT	Ave	114287	210931	10089 326592	21131	48544	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	290709	473904	31472 733565	66023	127528	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dichlorophenol	NPT	Ave	208981	342087	21546 532552	44791	87727	10.0	16.0	1.00 24.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	2504 239952	4727 391971	25148 606350	54682	102671	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Naphthalene	NPT	Ave	749480	1236141	78634 1912883	164613	319680	10.0	16.0	1.00 24.0	2.00	4.00
4-Chloroaniline	NPT	Ave	315130	506070	33371 784289	68555	132914	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	1551 140366	3436 226249	15237 347395	30059	58930	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
4-Chloro-3-methylphenol	NPT	Ave	209622	342524	20769 517084	45552	89298	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	532907	11413 862708	55078 1305207	117581	228586	10.0	0.200 16.0	1.00 24.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	500989	814452	53455 1245331	110105	212052	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorocyclopentadiene	ANT	Ave	172604	288115	17945 436574	36287	73288	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	239061	387552	25556 596673	52673	103532	10.0	16.0	1.00 24.0	2.00	4.00
2-tertbutyl-4-methylphenol	NPT	Ave	349310	7260 541755	34359 847770	70122	142300	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Ave	150658	246200	15207 372090	33080	65738	10.0	16.0	1.00 24.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Ave	166587	267889	16201 403386	34380	70702	10.0	16.0	1.00 24.0	2.00	4.00
1,1'-Biphenyl	ANT	Ave	622235	1016147	66371 1519867	136485	267850	10.0	16.0	1.00 24.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	471829	761284	50935 1154649	103356	201569	10.0	16.0	1.00 24.0	2.00	4.00
Phenyl ether	ANT	Ave	327053	498267	34153 778954	66462	132484	10.0	16.0	1.00 24.0	2.00	4.00
2-Nitroaniline	ANT	Ave	155562	245816	16826 365870	33684	66136	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dimethylnaphthalene	ANT	Ave	398892	614194	41040 953484	81342	167154	10.0	16.0	1.00 24.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	528489	832619	59178 1232400	122649	236889	10.0	16.0	1.00 24.0	2.00	4.00
Coumarin	NPT	Ave	171357	252711	18763 385976	37624	72394	10.0	16.0	1.00 24.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Ave	119045	2401 187847	11906 271982	25863	51009	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acenaphthylene	ANT	Ave	712020	1129371	73709 1695948	156560	304811	10.0	16.0	1.00 24.0	2.00	4.00
3-Nitroaniline	ANT	Ave	125965	203846	14040 295448	29881	56579	10.0	16.0	1.00 24.0	2.00	4.00
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	470832	726196	49177 1138030	96575	196438	10.0	16.0	1.00 24.0	2.00	4.00
Acenaphthene	ANT	Ave	457824	739316	55966 1111256	116626	217583	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dinitrophenol	ANT	Ave	138736	242193	12473 347019	27734	57300	20.0	32.0	2.00 48.0	4.00	8.00
4-Nitrophenol	ANT	Ave	175723	288234	19760 405128	40879	78366	20.0	32.0	2.00 48.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Ave	155560	3470 244605	16424 356680	34746	69089	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenzofuran	ANT	Ave	670051	1076953	72231 1591078	151208	286101	10.0	16.0	1.00 24.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	135996	226301	14716 327581	29661	58839	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Diethyl phthalate	ANT	Ave	542710	863460	61432 1252915	125024	241864	10.0	16.0	1.00 24.0	2.00	4.00
4-Chlorophenyl phenyl ether	ANT	Ave	253513	408434	29310 597883	60811	114242	10.0	16.0	1.00 24.0	2.00	4.00
Fluorene	ANT	Ave	518274	826698	57369 1215427	118876	227203	10.0	16.0	1.00 24.0	2.00	4.00
4-Nitroaniline	ANT	Ave	128276	200442	13760 287991	28698	56503	10.0	16.0	1.00 24.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Ave	154713	256555	14831 375536	32702	67682	20.0	32.0	2.00 48.0	4.00	8.00
N-Nitrosodiphenylamine	PHN	Ave	379489	602793	43139 879306	87471	169716	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	492585	799007	55126 1158575	111887	214664	10.0	16.0	1.00 24.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	160706	258735	17677 375432	35837	73251	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	2446 175285	3646 268382	20474 392578	40241	76461	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Pentachlorophenol	PHN	Ave	203431	318725	20018 469677	43448	87996	20.0	32.0	2.00 48.0	4.00	8.00
Pentachloronitrobenzene	PHN	Ave	74874	111924	8274 164664	16229	32312	10.0	16.0	1.00 24.0	2.00	4.00
n-Octadecane	PHN	Ave	376075	612535	40868 880959	84239	165351	10.0	16.0	1.00 24.0	2.00	4.00
Phenanthrene	PHN	Ave	755810	1157542	88352 1673904	179902	334796	10.0	16.0	1.00 24.0	2.00	4.00
Anthracene	PHN	Ave	767723	1197002	89209 1745213	177526	341069	10.0	16.0	1.00 24.0	2.00	4.00
Carbazole	PHN	Ave	631951	984915	73147 1400281	151829	283400	10.0	16.0	1.00 24.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	837347	1290807	93624 1851579	192533	368665	10.0	16.0	1.00 24.0	2.00	4.00
Fluoranthene	PHN	Ave	717306	1116338	86601 1590783	172006	326918	10.0	16.0	1.00 24.0	2.00	4.00
Benzidine	PHN	Lin2	380435	631832	26227 915714	73721	163743	10.0	16.0	1.00 24.0	2.00	4.00
Pyrene	CRY	Ave	723146	1113644	86453 1564761	176177	319260	10.0	16.0	1.00 24.0	2.00	4.00
Bisphenol-A	CRY	Ave	280811	466869	27825 678757	61328	118459	10.0	16.0	1.00 24.0	2.00	4.00
Butyl benzyl phthalate	CRY	Ave	283007	453208	31105 650852	65149	122320	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,3,7,8-TCDD	CRY	Ave	800					0.100				
Carbamazepine	CRY	Qua	197868	371944	18204 557892	37960	83258	10.0	16.0	1.00 24.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	Ave	209089	3512 356237	21905 532092	41799	89251	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[a]anthracene	CRY	Ave	8260 554705	14368 920252	65300 1319112	133478	247905	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Chrysene	CRY	Ave	523673	12998 879297	64480 1243751	124566	232437	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	381669	7859 643132	41259 919843	87213	166740	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Di-n-octyl phthalate	PRY	Ave	597233	1054421	55109 1586188	120127	242312	10.0	16.0	1.00 24.0	2.00	4.00
Benzo[b]fluoranthene	PRY	Ave	539444	11653 901996	55722 1398146	113831	219658	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[k]fluoranthene	PRY	Ave	6197 551381	12020 922743	57805 1435349	112005	229916	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[a]pyrene	PRY	Ave	4575 532474	9651 904602	50249 1404050	104888	208920	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	4573 502515	8313 859137	41801 1416086	90675	186916	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Ave	4380 512354	8613 859946	46605 1371690	96607	197329	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[g,h,i]perylene	PRY	Ave	517071	872190	46118 1414554	94601	198574	10.0	16.0	1.00 24.0	2.00	4.00
2-Fluorophenol (Surr)	DCBd 4	Ave	2769 240261	4970 392185	24840 631552	50459	100641	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Phenol-d5 (Surr)	DCBd 4	Ave	298664	6056 485007	29509 769993	61933	121918	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene-d5 (Surr)	NPT	Ave	3189 265427	5851 430188	27679 681173	57134	109271	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	568731	13702 942318	60252 1473882	125380	243459	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	86102	1550 142468	8540 216354	18988	38943	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Terphenyl-d14 (Surr)	CRY	Ave	7242 515938	14393 887860	66806 1279100	135627	249854	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 506381

SDG No.:

Instrument ID: CBNAMS18 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2018 22:48 Calibration End Date: 03/28/2018 01:29 Calibration ID: 67270

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

Report Date: 28-Mar-2018 12:36:55 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00967.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 27-Mar-2018 22:48:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-002
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:36:47 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: hamziy Date: 27-Mar-2018 23:36:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.933	1.933	0.000	97	82793	10.0	9.81	
	2 N-Nitrosodimethylamine	74	2.150	2.150	0.000	89	139700	10.0	10.0	
	3 Pyridine	79	2.188	2.188	0.000	89	479725	20.0	20.4	
$	4 2-Fluorophenol	112	3.300	3.300	0.000	96	240261	10.0	9.84	
$	6 Phenol-d5	99	4.172	4.172	0.000	99	298664	10.0	10.2	
	7 Phenol	94	4.185	4.185	0.000	99	300992	10.0	10.1	
	8 Aniline	93	4.223	4.223	0.000	99	377494	10.0	10.1	
	9 Bis(2-chloroethyl)ether	93	4.277	4.277	0.000	94	235153	10.0	9.88	
	10 Benzonitrile	103	4.296	4.296	0.000	98	489944	NC	NC	
	11 2-Chlorophenol	128	4.338	4.338	0.000	97	259725	10.0	10.2	
	12 n-Decane	43	4.386	4.386	0.000	91	251551	10.0	9.96	
	13 1,3-Dichlorobenzene	146	4.488	4.488	0.000	96	291380	10.0	9.97	
*	14 1,4-Dichlorobenzene-d4	152	4.539	4.539	0.000	95	148026	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.555	4.555	0.000	95	294057	10.0	10.0	
	16 Benzyl alcohol	108	4.658	4.658	0.000	93	161026	10.0	10.1	
	17 1,2-Dichlorobenzene	146	4.702	4.702	0.000	96	277799	10.0	10.0	
	18 2-Methylphenol	108	4.763	4.763	0.000	89	222245	10.0	10.0	
	19 2,2'-oxybis[1-chloropropan	45	4.792	4.792	0.000	94	334339	10.0	9.99	
	20 N-Methylaniline	106	4.907	4.907	0.000	88	372344	10.0	9.98	
	24 4-Methylphenol	108	4.907	4.907	0.000	83	248377	10.0	9.90	
	23 3 & 4 Methylphenol	108	4.907	4.907	0.000	98	248616	10.0	9.90	
	22 N-Nitrosodi-n-propylamine	70	4.913	4.913	0.000	87	176058	10.0	9.52	
	21 Acetophenone	105	4.913	4.913	0.000	91	351006	10.0	9.92	
	25 Hexachloroethane	117	5.025	5.025	0.000	94	104881	10.0	9.49	
$	27 Nitrobenzene-d5	82	5.057	5.057	0.000	88	265427	10.0	9.91	
	28 Nitrobenzene	123	5.076	5.076	0.000	92	120364	10.0	9.94	
	29 n,n'-Dimethylaniline	120	5.083	5.083	0.000	98	415137	10.0	10.5	
	30 Isophorone	82	5.300	5.300	0.000	99	450877	10.0	10.1	
	32 2-Nitrophenol	139	5.380	5.380	0.000	93	130485	10.0	10.0	
	33 2,4-Dimethylphenol	122	5.415	5.415	0.000	91	220946	10.0	10.1	
	35 Benzoic acid	122	5.495	5.495	0.000	87	114287	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.505	5.505	0.000	98	290709	10.0	9.97	
36 2,4-Dichlorophenol	162	5.607	5.607	0.000	96	208981	10.0	10.2	
37 1,2,4-Trichlorobenzene	180	5.693	5.693	0.000	95	239952	10.0	10.1	
* 38 Naphthalene-d8	136	5.745	5.745	0.000	99	604988	8.00	8.00	
39 Naphthalene	128	5.764	5.764	0.000	99	749480	10.0	10.1	
40 4-Chloroaniline	127	5.812	5.812	0.000	97	315130	10.0	10.2	
41 Hexachlorobutadiene	225	5.892	5.892	0.000	96	140366	10.0	9.87	
43 4-Chloro-3-methylphenol	107	6.269	6.269	0.000	97	209622	10.0	10.3	
44 2-Methylnaphthalene	142	6.422	6.422	0.000	85	532907	10.0	10.2	
45 1-Methylnaphthalene	142	6.515	6.515	0.000	92	500989	10.0	10.1	
46 Hexachlorocyclopentadiene	237	6.579	6.579	0.000	97	172604	10.0	10.2	
47 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	97	239061	10.0	10.2	
48 2-tertbutyl-4-methylphenol	149	6.608	6.608	0.000	90	349310	10.0	10.6	
49 2,4,6-Trichlorophenol	196	6.688	6.688	0.000	91	150658	10.0	10.2	
50 2,4,5-Trichlorophenol	196	6.717	6.717	0.000	98	166587	10.0	10.5	
$ 51 2-Fluorobiphenyl	172	6.768	6.768	0.000	98	568731	10.0	9.96	
52 1,1'-Biphenyl	154	6.864	6.864	0.000	95	622235	10.0	10.2	
53 2-Chloronaphthalene	162	6.880	6.880	0.000	98	471829	10.0	10.2	
54 Phenyl ether	170	6.963	6.963	0.000	89	327053	10.0	10.6	
55 2-Nitroaniline	65	6.973	6.973	0.000	98	155562	10.0	10.3	
57 1,3-Dimethylnaphthalene	156	7.088	7.088	0.000	90	398892	10.0	10.6	
59 Dimethyl phthalate	163	7.149	7.149	0.000	99	528489	10.0	10.1	
60 Coumarin	146	7.171	7.171	0.000	76	171357	10.0	10.4	
61 2,6-Dinitrotoluene	165	7.200	7.200	0.000	97	119045	10.0	10.6	
62 Acenaphthylene	152	7.273	7.273	0.000	98	712020	10.0	10.4	
63 3-Nitroaniline	138	7.360	7.360	0.000	95	125965	10.0	10.0	
* 64 Acenaphthene-d10	164	7.408	7.408	0.000	97	279160	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.427	7.427	0.000	97	470832	10.0	10.5	
66 Acenaphthene	154	7.440	7.440	0.000	95	457824	10.0	9.60	
67 2,4-Dinitrophenol	184	7.456	7.456	0.000	92	138736	20.0	21.0	
68 4-Nitrophenol	65	7.517	7.517	0.000	90	175723	20.0	20.1	
69 2,4-Dinitrotoluene	165	7.581	7.581	0.000	97	155560	10.0	10.3	
70 Dibenzofuran	168	7.600	7.600	0.000	96	670051	10.0	10.2	
72 2,3,4,6-Tetrachlorophenol	232	7.718	7.718	0.000	96	135996	10.0	10.2	
73 Diethyl phthalate	149	7.817	7.817	0.000	98	542710	10.0	10.1	
75 Fluorene	166	7.923	7.923	0.000	95	518274	10.0	10.2	
74 4-Chlorophenyl phenyl ethe	204	7.923	7.923	0.000	89	253513	10.0	9.93	
76 4-Nitroaniline	138	7.936	7.936	0.000	89	128276	10.0	10.4	
77 4,6-Dinitro-2-methylphenol	198	7.968	7.968	0.000	86	154713	20.0	20.5	
78 N-Nitrosodiphenylamine	169	8.032	8.032	0.000	99	379489	10.0	10.0	
79 1,2-Diphenylhydrazine	77	8.074	8.074	0.000	100	492585	10.0	10.0	
$ 80 2,4,6-Tribromophenol	330	8.150	8.150	0.000	93	86102	10.0	10.4	
81 4-Bromophenyl phenyl ether	248	8.384	8.384	0.000	92	160706	10.0	10.0	
82 Hexachlorobenzene	284	8.451	8.451	0.000	97	175285	10.0	10.1	
84 Pentachlorophenol	266	8.630	8.630	0.000	93	203431	20.0	20.9	
85 Pentachloronitrobenzene	237	8.649	8.649	0.000	88	74874	10.0	10.4	
86 n-Octadecane	57	8.713	8.713	0.000	92	376075	10.0	10.1	
* 87 Phenanthrene-d10	188	8.809	8.809	0.000	99	524614	8.00	8.00	
88 Phenanthrene	178	8.832	8.832	0.000	97	755810	10.0	10.1	
89 Anthracene	178	8.877	8.877	0.000	99	767723	10.0	10.0	
90 Carbazole	167	9.027	9.027	0.000	96	631951	10.0	10.0	
91 Di-n-butyl phthalate	149	9.362	9.362	0.000	99	837347	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.953	9.953	0.000	98	717306	10.0	9.93	
93 Benzidine	184	10.078	10.078	0.000	99	380435	10.0	9.62	
94 Pyrene	202	10.168	10.168	0.000	97	723146	10.0	9.83	
95 Bisphenol-A	213	10.213	10.213	0.000	98	280811	10.0	10.0	
$ 96 Terphenyl-d14	244	10.321	10.321	0.000	100	515938	10.0	8.87	
97 Butyl benzyl phthalate	149	10.829	10.829	0.000	95	283007	10.0	9.92	
98 2,3,7,8-TCDD	320	10.932	10.932	0.000	82	800	0.1000	0.1000	
99 Carbamazepine	193	10.941	10.941	0.000	93	197868	10.0	9.16	
100 3,3'-Dichlorobenzidine	252	11.421	11.421	0.000	99	209089	10.0	10.4	
101 Benzo[a]anthracene	228	11.446	11.446	0.000	99	554705	10.0	9.25	
* 102 Chrysene-d12	240	11.456	11.456	0.000	99	392217	8.00	8.00	
104 Chrysene	228	11.488	11.488	0.000	99	523673	10.0	9.53	
103 Bis(2-ethylhexyl) phthalat	149	11.501	11.501	0.000	85	381669	10.0	10.0	
105 Di-n-octyl phthalate	149	12.348	12.348	0.000	96	597233	10.0	10.1	
106 Benzo[b]fluoranthene	252	12.846	12.846	0.000	99	539444	10.0	10.0	
107 Benzo[k]fluoranthene	252	12.884	12.884	0.000	100	551381	10.0	9.90	M
108 Benzo[a]pyrene	252	13.306	13.306	0.000	98	532474	10.0	10.7	
* 109 Perylene-d12	264	13.386	13.386	0.000	98	359321	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.990	14.990	0.000	99	502515	10.0	10.9	M
111 Dibenz(a,h)anthracene	278	15.032	15.032	0.000	98	512354	10.0	10.9	
112 Benzo[g,h,i]perylene	276	15.444	15.444	0.000	97	517071	10.0	10.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL6_00050 Amount Added: 1.00 Units: mL

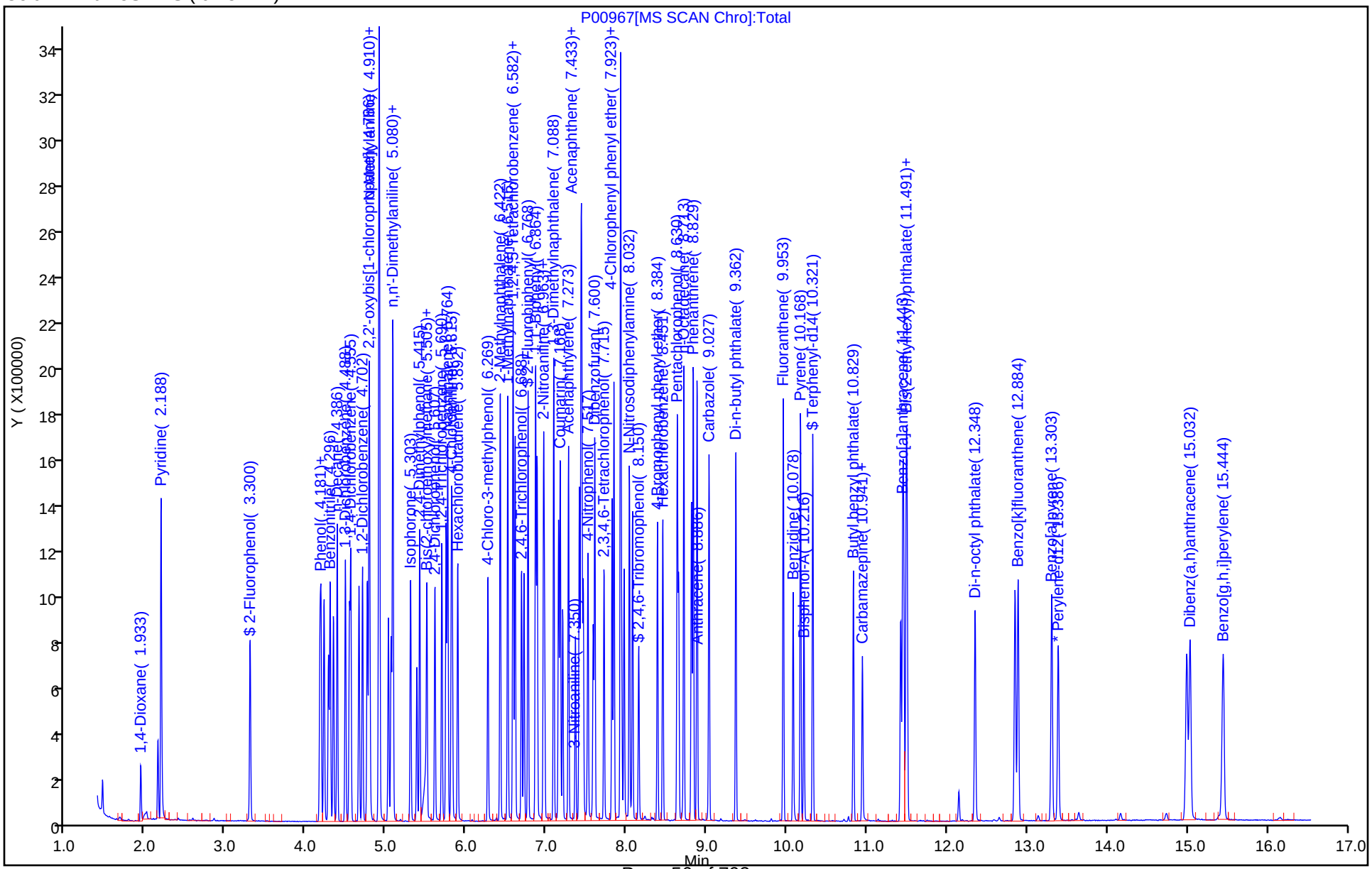
Report Date: 28-Mar-2018 12:36:55 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00967.D

Injection Date:	27-Mar-2018 22:48:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	icis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

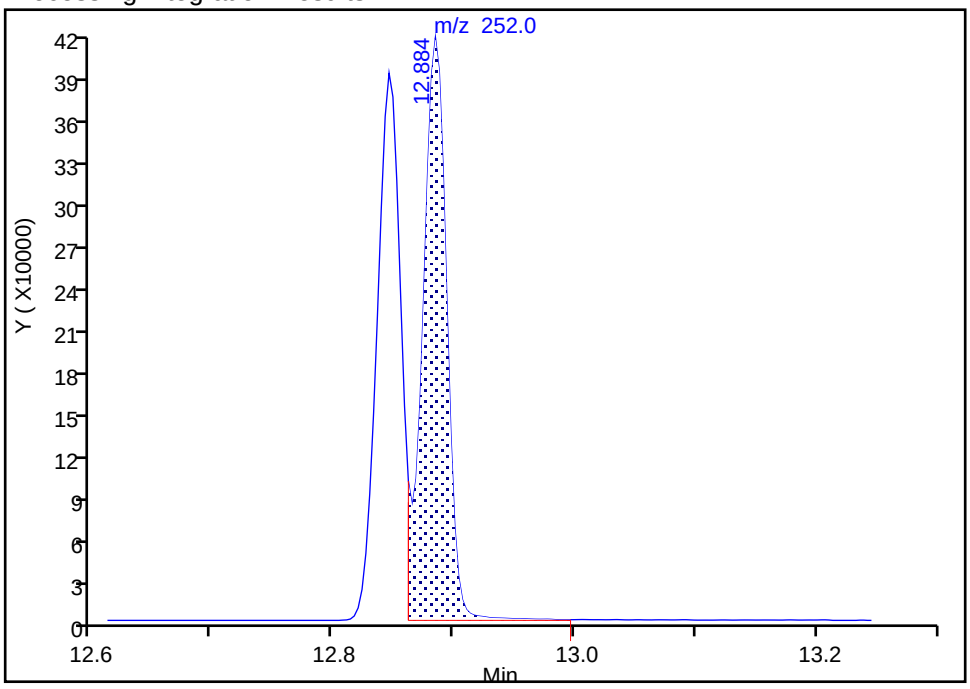
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00967.D
Injection Date: 27-Mar-2018 22:48:30 Instrument ID: CBNAMS18
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

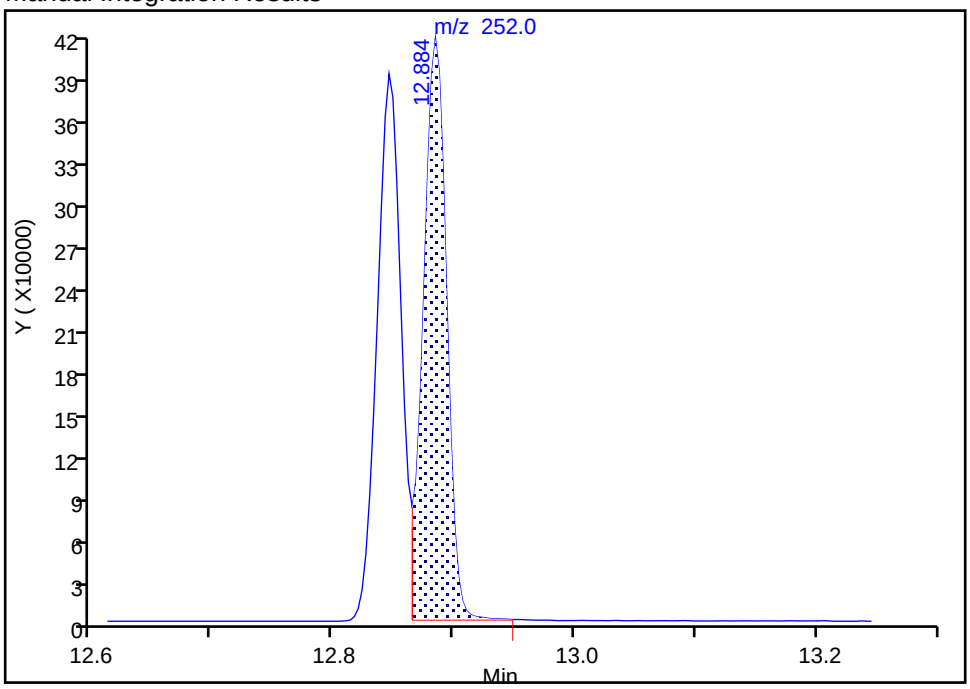
Processing Integration Results

RT: 12.88
Area: 576444
Amount: 10.292354
Amount Units: ug/ml



Manual Integration Results

RT: 12.88
Area: 551381
Amount: 9.900236
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:41:29
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

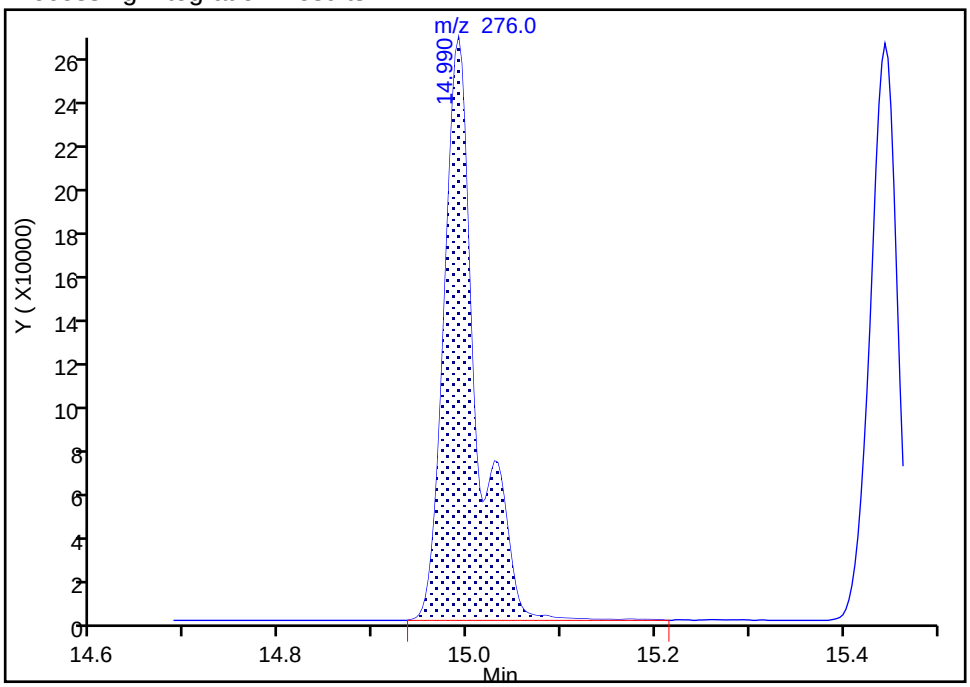
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00967.D				
Injection Date:	27-Mar-2018 22:48:30	Instrument ID:	CBNAMS18		
Lims ID:	icis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

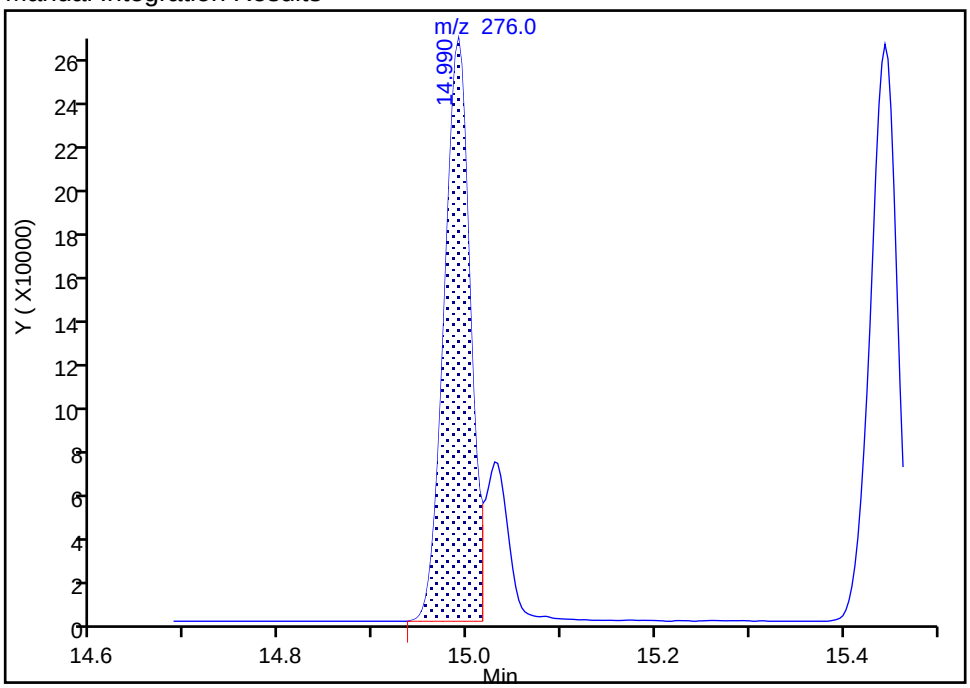
Processing Integration Results

RT: 14.99
Area: 621658
Amount: 10.762870
Amount Units: ug/ml



Manual Integration Results

RT: 14.99
Area: 502515
Amount: 10.913788
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:41:51

Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 28-Mar-2018 12:37:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00968.D
Lims ID: STD24
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Mar-2018 23:23:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-003
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:37:03 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:09:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.933	1.933	0.000	98	205851	24.0	24.8	
2 N-Nitrosodimethylamine	74	2.153	2.150	0.003	88	352939	24.0	25.7	
3 Pyridine	79	2.188	2.188	0.000	89	1206563	48.0	52.1	
$ 4 2-Fluorophenol	112	3.299	3.300	-0.001	95	631552	24.0	26.3	
$ 6 Phenol-d5	99	4.178	4.172	0.006	98	769993	24.0	26.6	
7 Phenol	94	4.194	4.185	0.009	99	746881	24.0	25.4	
8 Aniline	93	4.225	4.223	0.002	99	937627	24.0	25.5	
9 Bis(2-chloroethyl)ether	93	4.283	4.277	0.006	94	583927	24.0	24.9	
10 Benzonitrile	103	4.305	4.296	0.009	99	1201714	NC	NC	
11 2-Chlorophenol	128	4.344	4.338	0.006	96	640519	24.0	25.5	
12 n-Decane	43	4.389	4.386	0.003	91	614394	24.0	24.7	
13 1,3-Dichlorobenzene	146	4.491	4.488	0.003	96	726330	24.0	25.2	
* 14 1,4-Dichlorobenzene-d4	152	4.539	4.539	0.000	95	145805	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.555	4.555	0.000	94	723865	24.0	25.1	
16 Benzyl alcohol	108	4.663	4.658	0.005	93	401669	24.0	25.7	
17 1,2-Dichlorobenzene	146	4.702	4.702	0.000	96	695474	24.0	25.5	
18 2-Methylphenol	108	4.766	4.763	0.003	89	550732	24.0	25.2	
19 2,2'-oxybis[1-chloropropan	45	4.795	4.792	0.003	94	817797	24.0	24.8	
23 3 & 4 Methylphenol	108	4.916	4.907	0.009	93	611695	24.0	24.7	
24 4-Methylphenol	108	4.916	4.907	0.009	84	609537	24.0	24.7	
20 N-Methylaniline	106	4.910	4.907	0.003	93	923564	24.0	23.9	
21 Acetophenone	105	4.919	4.913	0.006	91	853623	24.0	24.5	
22 N-Nitrosodi-n-propylamine	70	4.922	4.913	0.009	88	442313	24.0	24.3	
25 Hexachloroethane	117	5.025	5.025	0.000	96	267973	24.0	24.6	
$ 27 Nitrobenzene-d5	82	5.063	5.057	0.006	88	681173	24.0	25.0	
28 Nitrobenzene	123	5.082	5.076	0.006	97	299832	24.0	25.1	
29 n,n'-Dimethylaniline	120	5.086	5.083	0.003	99	999431	24.0	25.7	
30 Isophorone	82	5.309	5.300	0.009	99	1119212	24.0	24.8	
32 2-Nitrophenol	139	5.383	5.380	0.003	93	338198	24.0	25.6	
33 2,4-Dimethylphenol	122	5.421	5.415	0.006	91	560520	24.0	25.2	
35 Benzoic acid	122	5.533	5.495	0.038	88	326592	24.0	28.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.511	5.505	0.006	98	733565	24.0	24.8	
36 2,4-Dichlorophenol	162	5.610	5.607	0.003	96	532552	24.0	25.6	
37 1,2,4-Trichlorobenzene	180	5.693	5.693	0.000	95	606350	24.0	25.2	
* 38 Naphthalene-d8	136	5.747	5.745	0.002	99	614334	8.00	8.00	
39 Naphthalene	128	5.767	5.764	0.003	99	1912883	24.0	25.3	
40 4-Chloroaniline	127	5.815	5.812	0.003	97	784289	24.0	25.0	
41 Hexachlorobutadiene	225	5.891	5.892	-0.001	96	347395	24.0	24.1	
43 4-Chloro-3-methylphenol	107	6.272	6.269	0.003	96	517084	24.0	24.9	
44 2-Methylnaphthalene	142	6.422	6.422	0.000	86	1305207	24.0	24.5	
45 1-Methylnaphthalene	142	6.518	6.515	0.003	95	1245331	24.0	24.8	
46 Hexachlorocyclopentadiene	237	6.582	6.579	0.003	97	436574	24.0	26.6	
47 1,2,4,5-Tetrachlorobenzene	216	6.585	6.582	0.003	97	596673	24.0	26.0	
48 2-tertbutyl-4-methylphenol	149	6.611	6.608	0.003	90	847770	24.0	25.2	
49 2,4,6-Trichlorophenol	196	6.691	6.688	0.003	91	372090	24.0	26.0	
50 2,4,5-Trichlorophenol	196	6.720	6.717	0.003	98	403386	24.0	26.2	
$ 51 2-Fluorobiphenyl	172	6.771	6.768	0.003	98	1473882	24.0	26.5	
52 1,1'-Biphenyl	154	6.864	6.864	0.000	95	1519867	24.0	25.6	
53 2-Chloronaphthalene	162	6.883	6.880	0.003	98	1154649	24.0	25.7	
54 Phenyl ether	170	6.963	6.963	0.000	87	778954	24.0	26.0	
55 2-Nitroaniline	65	6.979	6.973	0.006	97	365870	24.0	25.0	
57 1,3-Dimethylnaphthalene	156	7.091	7.088	0.003	90	953484	24.0	26.0	
59 Dimethyl phthalate	163	7.155	7.149	0.006	99	1232400	24.0	24.2	
60 Coumarin	146	7.174	7.171	0.003	75	385976	24.0	23.1	
61 2,6-Dinitrotoluene	165	7.206	7.200	0.006	96	271982	24.0	24.9	
62 Acenaphthylene	152	7.277	7.273	0.004	98	1695948	24.0	25.3	
63 3-Nitroaniline	138	7.367	7.360	0.006	96	295448	24.0	24.1	
* 64 Acenaphthene-d10	164	7.411	7.408	0.003	96	271715	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.434	7.427	0.007	97	1138030	24.0	26.1	
66 Acenaphthene	154	7.443	7.440	0.003	95	1111256	24.0	24.0	
67 2,4-Dinitrophenol	184	7.466	7.456	0.010	97	347019	48.0	54.0	
68 4-Nitrophenol	65	7.524	7.517	0.007	91	405128	48.0	47.6	
69 2,4-Dinitrotoluene	165	7.588	7.581	0.007	97	356680	24.0	24.2	
70 Dibenzofuran	168	7.607	7.600	0.007	96	1591078	24.0	25.0	
72 2,3,4,6-Tetrachlorophenol	232	7.719	7.718	0.001	94	327581	24.0	25.2	
73 Diethyl phthalate	149	7.821	7.817	0.004	98	1252915	24.0	24.0	
74 4-Chlorophenyl phenyl ethe	204	7.927	7.923	0.004	93	597883	24.0	24.1	
75 Fluorene	166	7.927	7.923	0.004	94	1215427	24.0	24.5	
76 4-Nitroaniline	138	7.946	7.936	0.010	89	287991	24.0	23.9	
77 4,6-Dinitro-2-methylphenol	198	7.975	7.968	0.007	87	375536	48.0	55.6	
78 N-Nitrosodiphenylamine	169	8.039	8.032	0.007	100	879306	24.0	25.9	
79 1,2-Diphenylhydrazine	77	8.078	8.074	0.005	100	1158575	24.0	26.3	
$ 80 2,4,6-Tribromophenol	330	8.154	8.150	0.004	93	216354	24.0	26.9	
81 4-Bromophenyl phenyl ether	248	8.385	8.384	0.001	92	375432	24.0	26.2	
82 Hexachlorobenzene	284	8.455	8.451	0.004	97	392578	24.0	25.2	
84 Pentachlorophenol	266	8.634	8.630	0.004	93	469677	48.0	53.8	
85 Pentachloronitrobenzene	237	8.651	8.649	0.002	88	164664	24.0	25.6	
86 n-Octadecane	57	8.715	8.713	0.002	92	880959	24.0	26.4	
* 87 Phenanthrene-d10	188	8.811	8.809	0.002	99	469954	8.00	8.00	
88 Phenanthrene	178	8.833	8.832	0.001	97	1673904	24.0	24.9	
89 Anthracene	178	8.881	8.877	0.004	99	1745213	24.0	25.5	
90 Carbazole	167	9.032	9.027	0.005	96	1400281	24.0	24.8	
91 Di-n-butyl phthalate	149	9.364	9.362	0.002	99	1851579	24.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.955	9.953	0.002	98	1590783	24.0	24.6	
93 Benzidine	184	10.080	10.078	0.002	99	915714	24.0	25.0	
94 Pyrene	202	10.173	10.168	0.005	97	1564761	24.0	23.9	
95 Bisphenol-A	213	10.215	10.213	0.002	98	678757	24.0	27.2	
$ 96 Terphenyl-d14	244	10.323	10.321	0.002	98	1279100	24.0	24.7	
97 Butyl benzyl phthalate	149	10.832	10.829	0.003	95	650852	24.0	25.6	
99 Carbamazepine	193	10.947	10.941	0.006	93	557892	24.0	23.8	
100 3,3'-Dichlorobenzidine	252	11.423	11.421	0.002	100	532092	24.0	29.6	
101 Benzo[a]anthracene	228	11.449	11.446	0.003	99	1319112	24.0	24.7	
* 102 Chrysene-d12	240	11.462	11.456	0.006	99	349488	8.00	8.00	
104 Chrysene	228	11.494	11.488	0.006	98	1243751	24.0	25.4	
103 Bis(2-ethylhexyl) phthalat	149	11.500	11.501	-0.001	86	919843	24.0	27.0	
105 Di-n-octyl phthalate	149	12.350	12.348	0.002	96	1586188	24.0	26.1	
106 Benzo[b]fluoranthene	252	12.855	12.846	0.009	98	1398146	24.0	25.1	
107 Benzo[k]fluoranthene	252	12.894	12.884	0.010	99	1435349	24.0	25.0	
108 Benzo[a]pyrene	252	13.312	13.306	0.006	97	1404050	24.0	27.3	
* 109 Perylene-d12	264	13.389	13.386	0.003	99	370646	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	15.006	14.990	0.016	99	1416086	24.0	29.8	M
111 Dibenz(a,h)anthracene	278	15.045	15.032	0.013	97	1371690	24.0	28.2	
112 Benzo[g,h,i]perylene	276	15.464	15.444	0.020	98	1414554	24.0	27.7	
S 119 Total Cresols	1				0			49.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL8_00017 Amount Added: 1.00 Units: mL

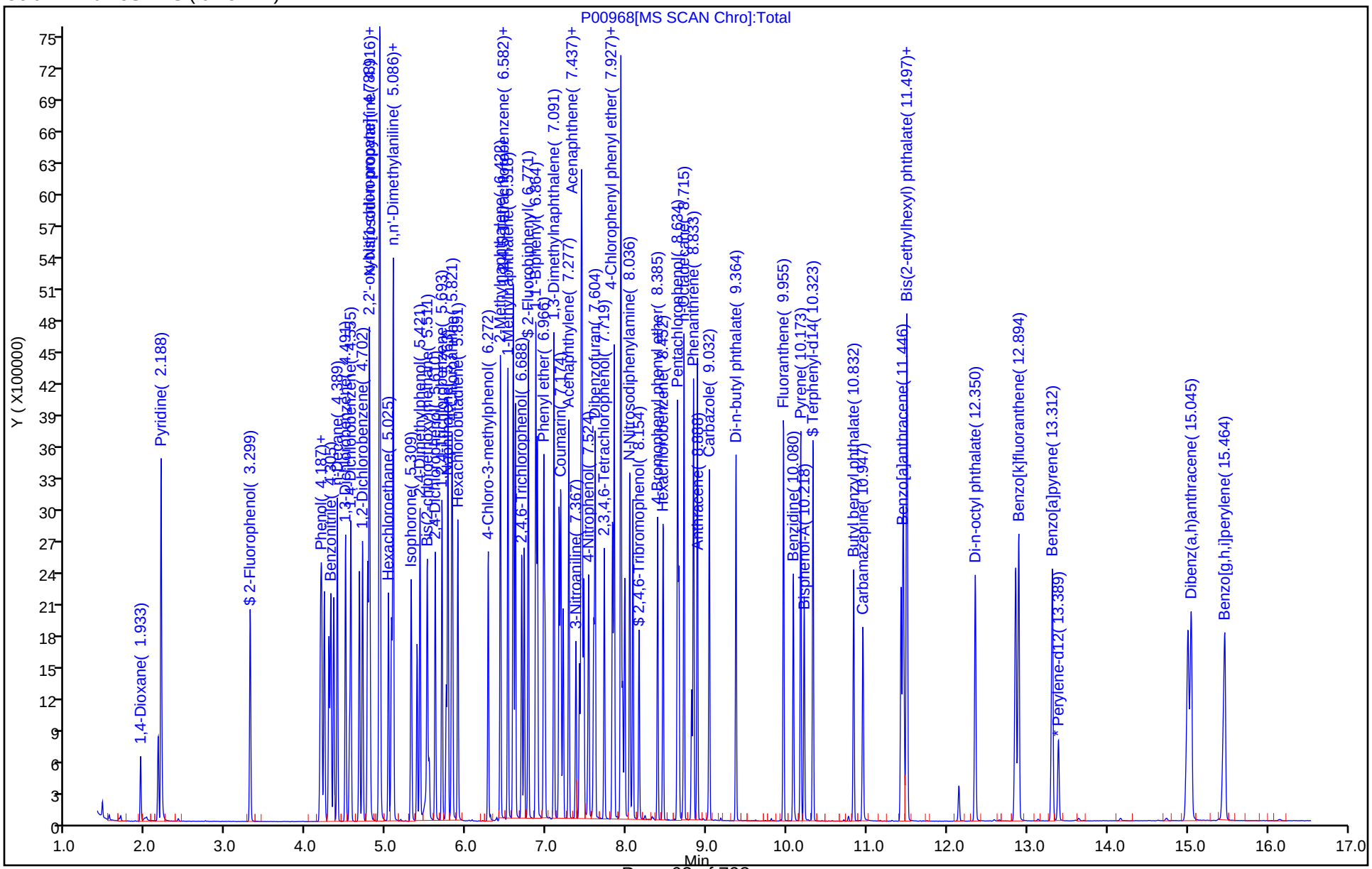
Report Date: 28-Mar-2018 12:37:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00968.D

Injection Date:	27-Mar-2018 23:23:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD24			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

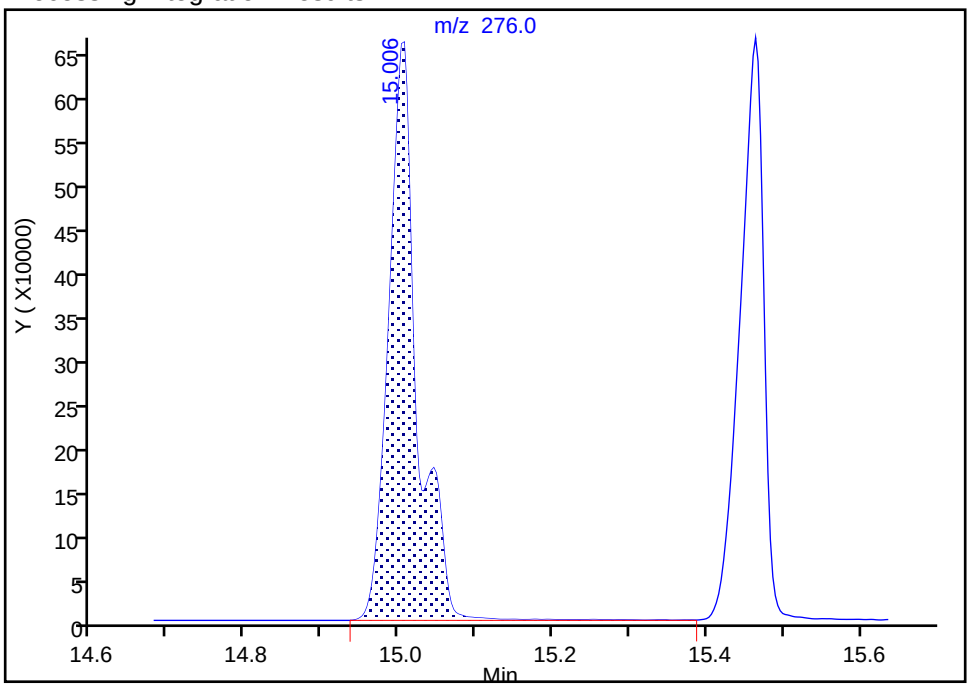
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00968.D
Injection Date: 27-Mar-2018 23:23:30 Instrument ID: CBNAMS18
Lims ID: STD24
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

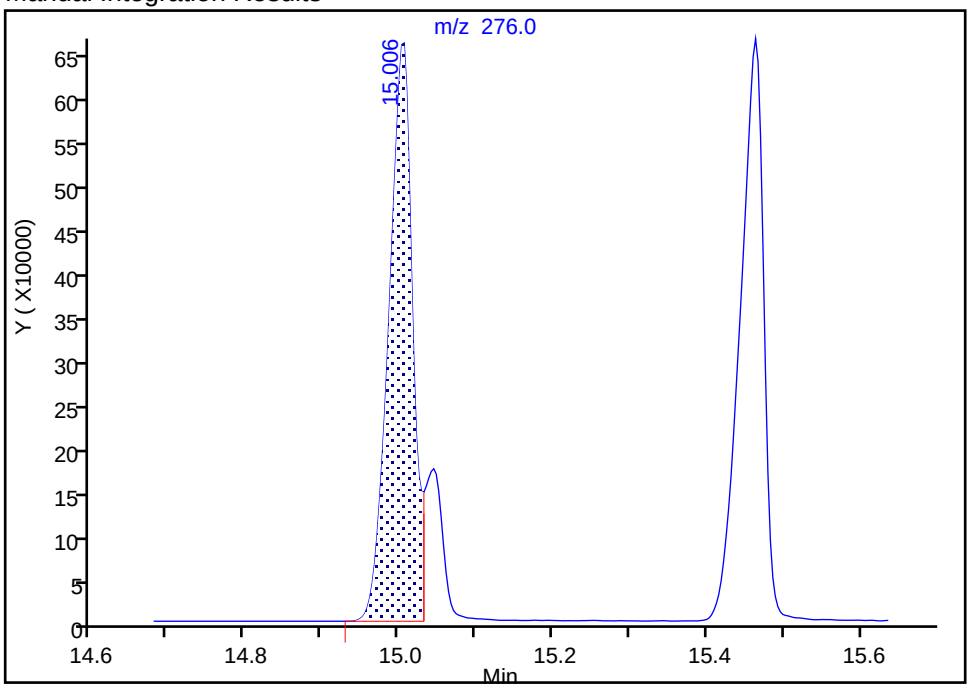
Processing Integration Results

RT: 15.01
Area: 1687315
Amount: 29.180907
Amount Units: ug/ml



Manual Integration Results

RT: 15.01
Area: 1416086
Amount: 29.815315
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:44:50
Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 28-Mar-2018 12:37:21 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00969.D
Lims ID: STD16
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Mar-2018 23:44:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-004
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:37:17 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:13:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.932	1.933	-0.001	97	132365	16.0	16.5	
	2 N-Nitrosodimethylamine	74	2.150	2.150	0.000	89	223234	16.0	16.9	
	3 Pyridine	79	2.185	2.188	-0.003	89	775098	32.0	34.7	
$	4 2-Fluorophenol	112	3.299	3.300	-0.001	97	392185	16.0	16.9	
$	6 Phenol-d5	99	4.174	4.172	0.002	98	485007	16.0	17.4	
	7 Phenol	94	4.187	4.185	0.002	99	484895	16.0	17.1	
	8 Aniline	93	4.222	4.223	-0.001	99	607981	16.0	17.2	
	9 Bis(2-chloroethyl)ether	93	4.280	4.277	0.003	94	379609	16.0	16.8	
	10 Benzonitrile	103	4.302	4.296	0.006	98	750866	NC	NC	
	11 2-Chlorophenol	128	4.340	4.338	0.002	97	419725	16.0	17.4	
	12 n-Decane	43	4.385	4.386	-0.001	91	401699	16.0	16.7	
	13 1,3-Dichlorobenzene	146	4.487	4.488	-0.001	96	465737	16.0	16.8	
*	14 1,4-Dichlorobenzene-d4	152	4.538	4.539	-0.001	95	140604	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.554	4.555	-0.001	95	472951	16.0	17.0	
	16 Benzyl alcohol	108	4.660	4.658	0.002	93	260902	16.0	17.3	
	17 1,2-Dichlorobenzene	146	4.701	4.702	-0.001	96	453386	16.0	17.2	
	18 2-Methylphenol	108	4.762	4.763	-0.001	89	358989	16.0	17.0	
	19 2,2'-oxybis[1-chloropropan	45	4.791	4.792	-0.001	93	533623	16.0	16.8	
	20 N-Methylaniline	106	4.906	4.907	-0.001	93	584476	16.0	16.1	
	24 4-Methylphenol	108	4.912	4.907	0.005	84	406193	16.0	17.0	
	23 3 & 4 Methylphenol	108	4.912	4.907	0.005	96	406989	16.0	17.1	
	22 N-Nitrosodi-n-propylamine	70	4.916	4.913	0.003	90	293207	16.0	16.7	
	21 Acetophenone	105	4.916	4.913	0.003	91	563008	16.0	16.8	
	25 Hexachloroethane	117	5.024	5.025	-0.001	95	173465	16.0	16.5	
$	27 Nitrobenzene-d5	82	5.060	5.057	0.003	92	430188	16.0	16.6	
	28 Nitrobenzene	123	5.079	5.076	0.003	93	199406	16.0	17.3	
	29 n,n'-Dimethylaniline	120	5.082	5.083	-0.001	93	629851	16.0	16.8	
	30 Isophorone	82	5.306	5.300	0.006	99	732070	16.0	17.1	
	32 2-Nitrophenol	139	5.382	5.380	0.002	94	219958	16.0	17.5	
	33 2,4-Dimethylphenol	122	5.417	5.415	0.002	91	358216	16.0	17.0	
	35 Benzoic acid	122	5.513	5.495	0.018	90	210931	16.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.507	5.505	0.002	98	473904	16.0	16.8	
36 2,4-Dichlorophenol	162	5.606	5.607	-0.001	96	342087	16.0	17.3	
37 1,2,4-Trichlorobenzene	180	5.692	5.693	-0.001	95	391971	16.0	17.1	
* 38 Naphthalene-d8	136	5.747	5.745	0.002	99	584447	8.00	8.00	
39 Naphthalene	128	5.766	5.764	0.002	99	1236141	16.0	17.2	
40 4-Chloroaniline	127	5.814	5.812	0.002	97	506070	16.0	16.9	
41 Hexachlorobutadiene	225	5.891	5.892	-0.001	95	226249	16.0	16.5	
43 4-Chloro-3-methylphenol	107	6.268	6.269	-0.001	96	342524	16.0	17.4	
44 2-Methylnaphthalene	142	6.421	6.422	-0.001	85	862708	16.0	17.0	
45 1-Methylnaphthalene	142	6.517	6.515	0.002	93	814452	16.0	17.1	
46 Hexachlorocyclopentadiene	237	6.581	6.579	0.002	98	288115	16.0	17.6	
47 1,2,4,5-Tetrachlorobenzene	216	6.584	6.582	0.002	97	387552	16.0	16.9	
48 2-tertbutyl-4-methylphenol	149	6.607	6.608	-0.001	90	541755	16.0	17.0	
49 2,4,6-Trichlorophenol	196	6.687	6.688	-0.001	90	246200	16.0	17.2	
50 2,4,5-Trichlorophenol	196	6.719	6.717	0.002	98	267889	16.0	17.4	
$ 51 2-Fluorobiphenyl	172	6.770	6.768	0.002	98	942318	16.0	17.0	
52 1,1'-Biphenyl	154	6.863	6.864	-0.001	95	1016147	16.0	17.1	
53 2-Chloronaphthalene	162	6.882	6.880	0.002	98	761284	16.0	16.9	
54 Phenyl ether	170	6.962	6.963	-0.001	86	498267	16.0	16.7	
55 2-Nitroaniline	65	6.975	6.973	0.002	98	245816	16.0	16.8	
57 1,3-Dimethylnaphthalene	156	7.090	7.088	0.002	91	614194	16.0	16.7	
59 Dimethyl phthalate	163	7.151	7.149	0.002	99	832619	16.0	16.4	
60 Coumarin	146	7.173	7.171	0.002	83	252711	16.0	15.9	
61 2,6-Dinitrotoluene	165	7.206	7.200	0.006	96	187847	16.0	17.2	
62 Acenaphthylene	152	7.276	7.273	0.003	98	1129371	16.0	16.9	
63 3-Nitroaniline	138	7.362	7.360	0.002	96	203846	16.0	16.7	
* 64 Acenaphthene-d10	164	7.410	7.408	0.002	98	271434	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.430	7.427	0.003	97	726196	16.0	16.7	
66 Acenaphthene	154	7.439	7.440	-0.001	95	739316	16.0	16.0	
67 2,4-Dinitrophenol	184	7.462	7.456	0.006	96	242193	32.0	37.7	
68 4-Nitrophenol	65	7.519	7.517	0.002	91	288234	32.0	33.9	
69 2,4-Dinitrotoluene	165	7.586	7.581	0.005	98	244605	16.0	16.6	
70 Dibenzofuran	168	7.602	7.600	0.002	95	1076953	16.0	16.9	
72 2,3,4,6-Tetrachlorophenol	232	7.718	7.718	0.000	94	226301	16.0	17.4	
73 Diethyl phthalate	149	7.820	7.817	0.003	98	863460	16.0	16.5	
75 Fluorene	166	7.926	7.923	0.003	94	826698	16.0	16.7	
74 4-Chlorophenyl phenyl ethe	204	7.926	7.923	0.003	89	408434	16.0	16.5	
76 4-Nitroaniline	138	7.942	7.936	0.006	88	200442	16.0	16.6	
77 4,6-Dinitro-2-methylphenol	198	7.971	7.968	0.003	85	256555	32.0	37.2	
78 N-Nitrosodiphenylamine	169	8.035	8.032	0.003	99	602793	16.0	17.4	
79 1,2-Diphenylhydrazine	77	8.076	8.074	0.003	100	799007	16.0	17.8	
$ 80 2,4,6-Tribromophenol	330	8.153	8.150	0.003	93	142468	16.0	17.8	
81 4-Bromophenyl phenyl ether	248	8.387	8.384	0.003	92	258735	16.0	17.6	
82 Hexachlorobenzene	284	8.454	8.451	0.003	97	268382	16.0	16.8	
84 Pentachlorophenol	266	8.633	8.630	0.003	94	318725	32.0	35.7	
85 Pentachloronitrobenzene	237	8.649	8.649	0.000	88	111924	16.0	17.0	
86 n-Octadecane	57	8.716	8.713	0.003	92	612535	16.0	17.9	
* 87 Phenanthrene-d10	188	8.809	8.809	0.000	98	480548	8.00	8.00	
88 Phenanthrene	178	8.832	8.832	0.000	97	1157542	16.0	16.8	
89 Anthracene	178	8.880	8.877	0.003	99	1197002	16.0	17.1	
90 Carbazole	167	9.030	9.027	0.003	96	984915	16.0	17.1	
91 Di-n-butyl phthalate	149	9.362	9.362	0.000	99	1290807	16.0	17.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.957	9.953	0.004	98	1116338	16.0	16.9	
93 Benzidine	184	10.078	10.078	0.000	99	631832	16.0	17.0	
94 Pyrene	202	10.171	10.168	0.003	97	1113644	16.0	16.5	
95 Bisphenol-A	213	10.216	10.213	0.003	98	466869	16.0	18.2	
$ 96 Terphenyl-d14	244	10.325	10.321	0.003	99	887860	16.0	16.7	
97 Butyl benzyl phthalate	149	10.833	10.829	0.004	96	453208	16.0	17.3	
99 Carbamazepine	193	10.945	10.941	0.004	93	371944	16.0	16.8	
100 3,3'-Dichlorobenzidine	252	11.424	11.421	0.003	99	356237	16.0	19.3	
101 Benzo[a]anthracene	228	11.450	11.446	0.004	99	920252	16.0	16.8	
* 102 Chrysene-d12	240	11.459	11.456	0.003	99	359290	8.00	8.00	
104 Chrysene	228	11.491	11.488	0.003	99	879297	16.0	17.5	
103 Bis(2-ethylhexyl) phthalat	149	11.501	11.501	0.000	86	643132	16.0	18.4	
105 Di-n-octyl phthalate	149	12.351	12.348	0.003	96	1054421	16.0	18.2	
106 Benzo[b]fluoranthene	252	12.852	12.846	0.006	99	901996	16.0	17.0	
107 Benzo[k]fluoranthene	252	12.891	12.884	0.007	100	922743	16.0	16.9	
108 Benzo[a]pyrene	252	13.310	13.306	0.004	97	904602	16.0	18.4	
* 109 Perylene-d12	264	13.390	13.386	0.004	98	353072	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	15.000	14.990	0.010	99	859137	16.0	19.0	M
111 Dibenz(a,h)anthracene	278	15.042	15.032	0.010	98	859946	16.0	18.6	
112 Benzo[g,h,i]perylene	276	15.457	15.444	0.013	97	872190	16.0	17.9	
S 119 Total Cresols	1				0			34.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL7_00017 Amount Added: 1.00 Units: mL

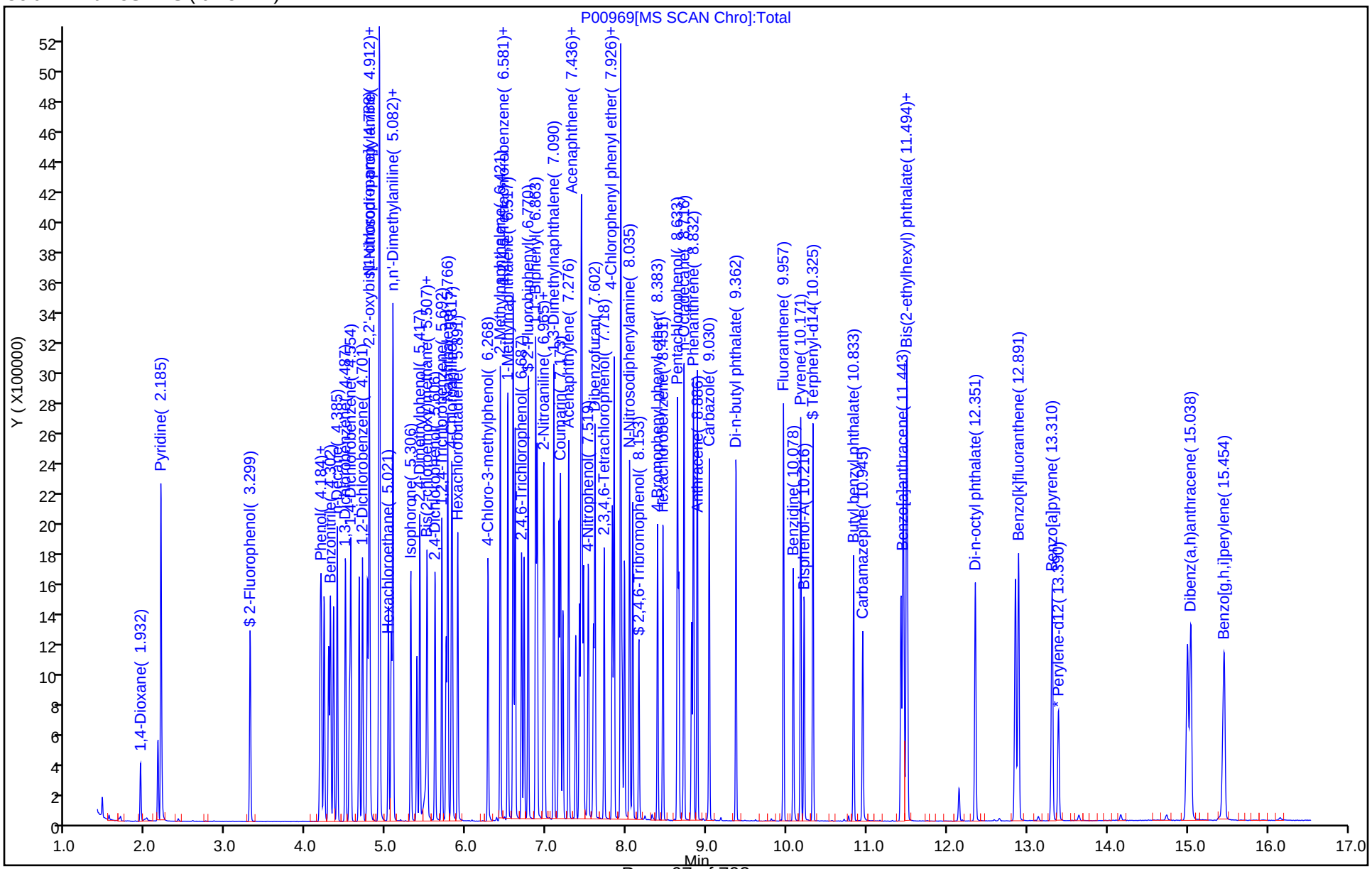
Report Date: 28-Mar-2018 12:37:21 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00969.D

Injection Date:	27-Mar-2018 23:44:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD16			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

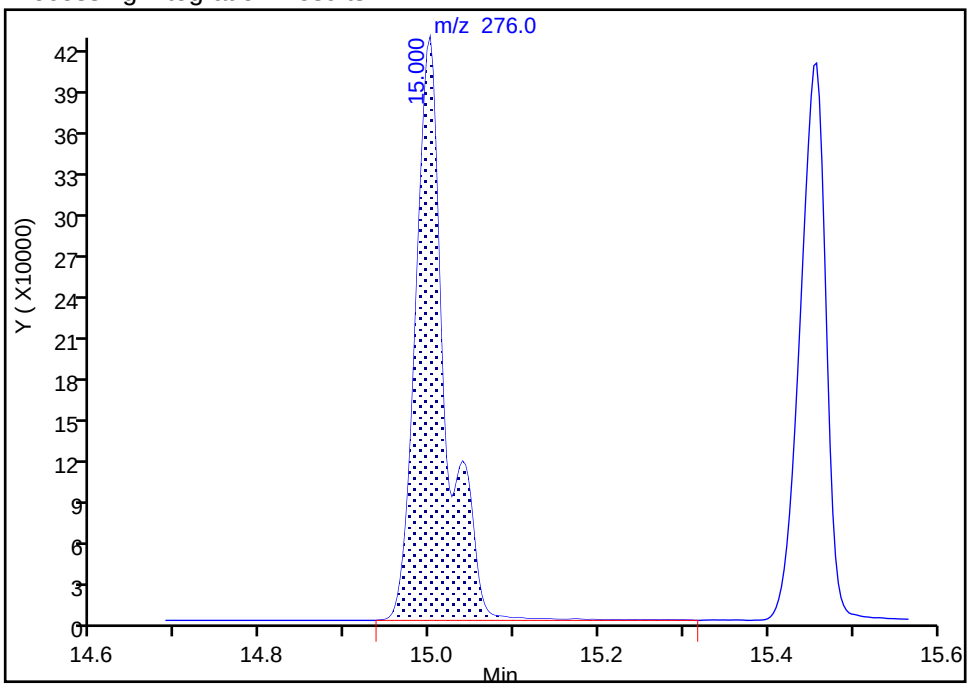
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00969.D
Injection Date: 27-Mar-2018 23:44:30 Instrument ID: CBNAMS18
Lims ID: STD16
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

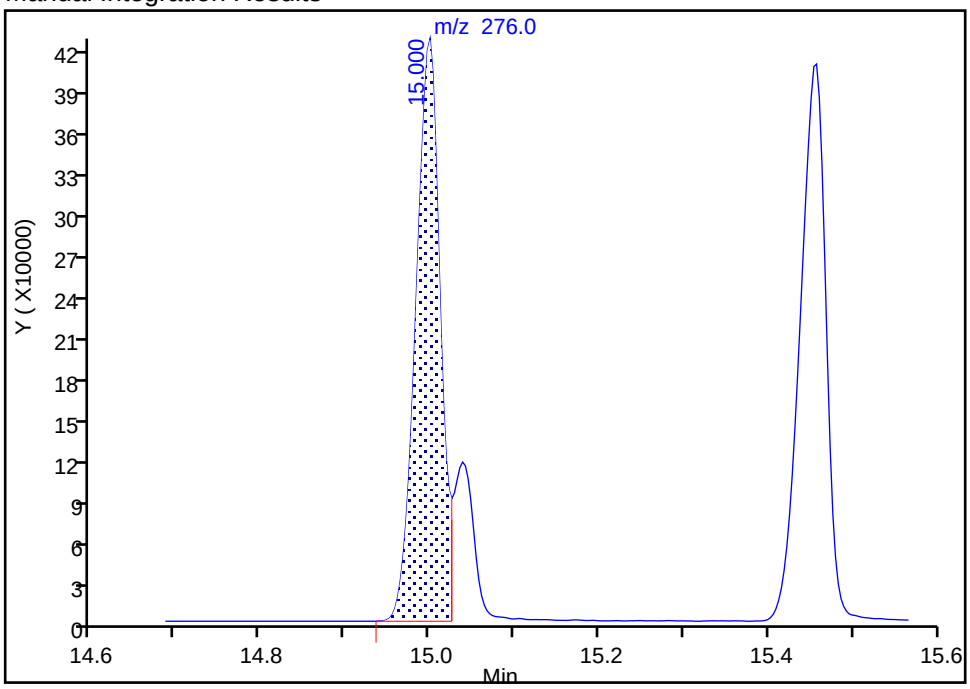
Processing Integration Results

RT: 15.00
Area: 1049296
Amount: 19.596861
Amount Units: ug/ml



Manual Integration Results

RT: 15.00
Area: 859137
Amount: 18.989269
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:46:01
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00970.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Mar-2018 00:05:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-005
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:37:29 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:21:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.939	1.933	0.006	98	36035	4.00	3.80	
	2 N-Nitrosodimethylamine	74	2.150	2.150	0.000	88	58559	4.00	3.74	
	3 Pyridine	79	2.191	2.188	0.003	88	197996	8.00	7.50	
$	4 2-Fluorophenol	112	3.299	3.300	-0.001	96	100641	4.00	3.67	
$	6 Phenol-d5	99	4.167	4.172	-0.005	98	121918	4.00	3.70	
	7 Phenol	94	4.180	4.185	-0.005	99	124937	4.00	3.73	
	8 Aniline	93	4.219	4.223	-0.004	100	156131	4.00	3.73	
	9 Bis(2-chloroethyl)ether	93	4.273	4.277	-0.004	94	100968	4.00	3.78	
	10 Benzonitrile	103	4.295	4.296	-0.001	98	197296	NC	NC	
	11 2-Chlorophenol	128	4.337	4.338	-0.001	96	104781	4.00	3.66	
	12 n-Decane	43	4.385	4.386	-0.001	91	104542	4.00	3.69	
	13 1,3-Dichlorobenzene	146	4.487	4.488	-0.001	96	123256	4.00	3.76	
*	14 1,4-Dichlorobenzene-d4	152	4.538	4.539	-0.001	96	166241	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.554	4.555	-0.001	95	121320	4.00	3.68	
	16 Benzyl alcohol	108	4.656	4.658	-0.002	94	67147	4.00	3.77	
	17 1,2-Dichlorobenzene	146	4.701	4.702	-0.001	96	115280	4.00	3.71	
	18 2-Methylphenol	108	4.759	4.763	-0.004	88	93908	4.00	3.76	
	19 2,2'-oxybis[1-chloropropan	45	4.791	4.792	-0.001	94	142878	4.00	3.80	
	23 3 & 4 Methylphenol	108	4.906	4.907	-0.001	97	106335	4.00	3.77	
	24 4-Methylphenol	108	4.906	4.907	-0.001	83	106335	4.00	3.77	
	20 N-Methylaniline	106	4.902	4.907	-0.005	79	158635	4.00	3.87	
	21 Acetophenone	105	4.912	4.913	-0.001	91	150797	4.00	3.80	
	22 N-Nitrosodi-n-propylamine	70	4.909	4.913	-0.004	90	80167	4.00	3.86	
	25 Hexachloroethane	117	5.024	5.025	-0.001	95	45340	4.00	3.65	
$	27 Nitrobenzene-d5	82	5.056	5.057	-0.001	88	109271	4.00	3.53	
	28 Nitrobenzene	123	5.075	5.076	-0.001	94	52754	4.00	3.88	
	29 n,n'-Dimethylaniline	120	5.081	5.083	-0.002	93	167738	4.00	3.78	
	30 Isophorone	82	5.298	5.300	-0.002	99	194570	4.00	3.79	
	32 2-Nitrophenol	139	5.378	5.380	-0.002	95	59628	4.00	3.96	
	33 2,4-Dimethylphenol	122	5.414	5.415	-0.001	92	94699	4.00	3.75	
	35 Benzoic acid	122	5.471	5.495	-0.024	89	48544	4.00	3.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.503	5.505	-0.002	97	127528	4.00	3.79	
36 2,4-Dichlorophenol	162	5.605	5.607	-0.002	96	87727	4.00	3.70	
37 1,2,4-Trichlorobenzene	180	5.691	5.693	-0.002	94	102671	4.00	3.75	
* 38 Naphthalene-d8	136	5.743	5.745	-0.002	99	698424	8.00	8.00	
39 Naphthalene	128	5.765	5.764	0.001	99	319680	4.00	3.72	
40 4-Chloroaniline	127	5.810	5.812	-0.002	97	132914	4.00	3.72	
41 Hexachlorobutadiene	225	5.890	5.892	-0.002	96	58930	4.00	3.59	
43 4-Chloro-3-methylphenol	107	6.267	6.269	-0.002	96	89298	4.00	3.79	
44 2-Methylnaphthalene	142	6.420	6.422	-0.002	84	228586	4.00	3.78	
45 1-Methylnaphthalene	142	6.513	6.515	-0.002	92	212052	4.00	3.71	
46 Hexachlorocyclopentadiene	237	6.580	6.579	0.001	97	73288	4.00	3.65	
47 1,2,4,5-Tetrachlorobenzene	216	6.583	6.582	0.001	97	103532	4.00	3.70	
48 2-tertbutyl-4-methylphenol	149	6.605	6.608	-0.003	90	142300	4.00	3.73	
49 2,4,6-Trichlorophenol	196	6.685	6.688	-0.003	91	65738	4.00	3.76	
50 2,4,5-Trichlorophenol	196	6.717	6.717	0.000	99	70702	4.00	3.76	
$ 51 2-Fluorobiphenyl	172	6.768	6.768	0.000	98	243459	4.00	3.59	
52 1,1'-Biphenyl	154	6.861	6.864	-0.003	95	267850	4.00	3.69	
53 2-Chloronaphthalene	162	6.880	6.880	0.000	98	201569	4.00	3.67	
54 Phenyl ether	170	6.960	6.963	-0.003	86	132484	4.00	3.62	
55 2-Nitroaniline	65	6.970	6.973	-0.003	98	66136	4.00	3.70	
57 1,3-Dimethylnaphthalene	156	7.088	7.088	0.000	90	167154	4.00	3.73	
59 Dimethyl phthalate	163	7.146	7.149	-0.003	99	236889	4.00	3.81	
60 Coumarin	146	7.168	7.171	-0.003	76	72394	4.00	3.82	
61 2,6-Dinitrotoluene	165	7.200	7.200	0.000	96	51009	4.00	3.82	
62 Acenaphthylene	152	7.270	7.273	-0.003	97	304811	4.00	3.73	
63 3-Nitroaniline	138	7.357	7.360	-0.003	95	56579	4.00	3.79	
* 64 Acenaphthene-d10	164	7.408	7.408	0.000	98	331843	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.427	7.427	0.000	97	196438	4.00	3.69	
66 Acenaphthene	154	7.437	7.440	-0.003	95	217583	4.00	3.84	
67 2,4-Dinitrophenol	184	7.456	7.456	0.000	93	57300	8.00	7.30	
68 4-Nitrophenol	65	7.510	7.517	-0.007	91	78366	8.00	7.54	
69 2,4-Dinitrotoluene	165	7.581	7.581	0.000	96	69089	4.00	3.84	
70 Dibenzofuran	168	7.600	7.600	0.000	95	286101	4.00	3.67	
72 2,3,4,6-Tetrachlorophenol	232	7.715	7.718	-0.003	94	58839	4.00	3.70	
73 Diethyl phthalate	149	7.814	7.817	-0.003	98	241864	4.00	3.79	
74 4-Chlorophenyl phenyl ethe	204	7.923	7.923	0.000	85	114242	4.00	3.77	
75 Fluorene	166	7.923	7.923	0.000	93	227203	4.00	3.74	
76 4-Nitroaniline	138	7.932	7.936	-0.004	89	56503	4.00	3.84	
77 4,6-Dinitro-2-methylphenol	198	7.964	7.968	-0.004	85	67682	8.00	7.50	
78 N-Nitrosodiphenylamine	169	8.032	8.032	-0.001	99	169716	4.00	3.74	
79 1,2-Diphenylhydrazine	77	8.070	8.074	-0.003	100	214664	4.00	3.65	
$ 80 2,4,6-Tribromophenol	330	8.150	8.150	0.000	92	38943	4.00	3.97	
81 4-Bromophenyl phenyl ether	248	8.383	8.384	-0.001	92	73251	4.00	3.82	
82 Hexachlorobenzene	284	8.450	8.451	-0.001	97	76461	4.00	3.67	
84 Pentachlorophenol	266	8.629	8.630	-0.001	93	87996	8.00	7.54	
85 Pentachloronitrobenzene	237	8.648	8.649	-0.001	89	32312	4.00	3.75	
86 n-Octadecane	57	8.712	8.713	-0.001	93	165351	4.00	3.70	
* 87 Phenanthrene-d10	188	8.808	8.809	-0.001	99	628538	8.00	8.00	
88 Phenanthrene	178	8.831	8.832	-0.001	97	334796	4.00	3.72	
89 Anthracene	178	8.879	8.877	0.002	99	341069	4.00	3.72	
90 Carbazole	167	9.026	9.027	-0.001	96	283400	4.00	3.75	
91 Di-n-butyl phthalate	149	9.361	9.362	-0.001	99	368665	4.00	3.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.952	9.953	-0.001	98	326918	4.00	3.78	
93 Benzidine	184	10.076	10.078	-0.002	99	163743	4.00	3.77	
94 Pyrene	202	10.169	10.168	0.001	97	319260	4.00	3.84	
95 Bisphenol-A	213	10.211	10.213	-0.002	98	118459	4.00	3.75	
$ 96 Terphenyl-d14	244	10.323	10.321	0.002	98	249854	4.00	3.80	
97 Butyl benzyl phthalate	149	10.827	10.829	-0.002	95	122320	4.00	3.80	
99 Carbamazepine	193	10.939	10.941	-0.002	93	83258	4.00	3.94	
100 3,3'-Dichlorobenzidine	252	11.418	11.421	-0.003	99	89251	4.00	3.92	
101 Benzo[a]anthracene	228	11.444	11.446	-0.002	99	247905	4.00	3.66	
* 102 Chrysene-d12	240	11.457	11.456	0.001	99	442912	8.00	8.00	
104 Chrysene	228	11.489	11.488	0.001	98	232437	4.00	3.75	
103 Bis(2-ethylhexyl) phthalat	149	11.501	11.501	0.000	86	166740	4.00	3.87	
105 Di-n-octyl phthalate	149	12.348	12.348	0.000	96	242312	4.00	3.82	
106 Benzo[b]fluoranthene	252	12.846	12.846	0.000	99	219658	4.00	3.79	
107 Benzo[k]fluoranthene	252	12.881	12.884	-0.003	100	229916	4.00	3.84	
108 Benzo[a]pyrene	252	13.303	13.306	-0.003	98	208920	4.00	3.89	
* 109 Perylene-d12	264	13.386	13.386	0.000	98	386525	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.986	14.990	-0.004	99	186916	4.00	3.77	M
111 Dibenz(a,h)anthracene	278	15.031	15.032	-0.001	98	197329	4.00	3.89	
112 Benzo[g,h,i]perylene	276	15.437	15.444	-0.007	97	198574	4.00	3.73	
S 119 Total Cresols	1				0			7.53	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL5_00025 Amount Added: 1.00 Units: mL

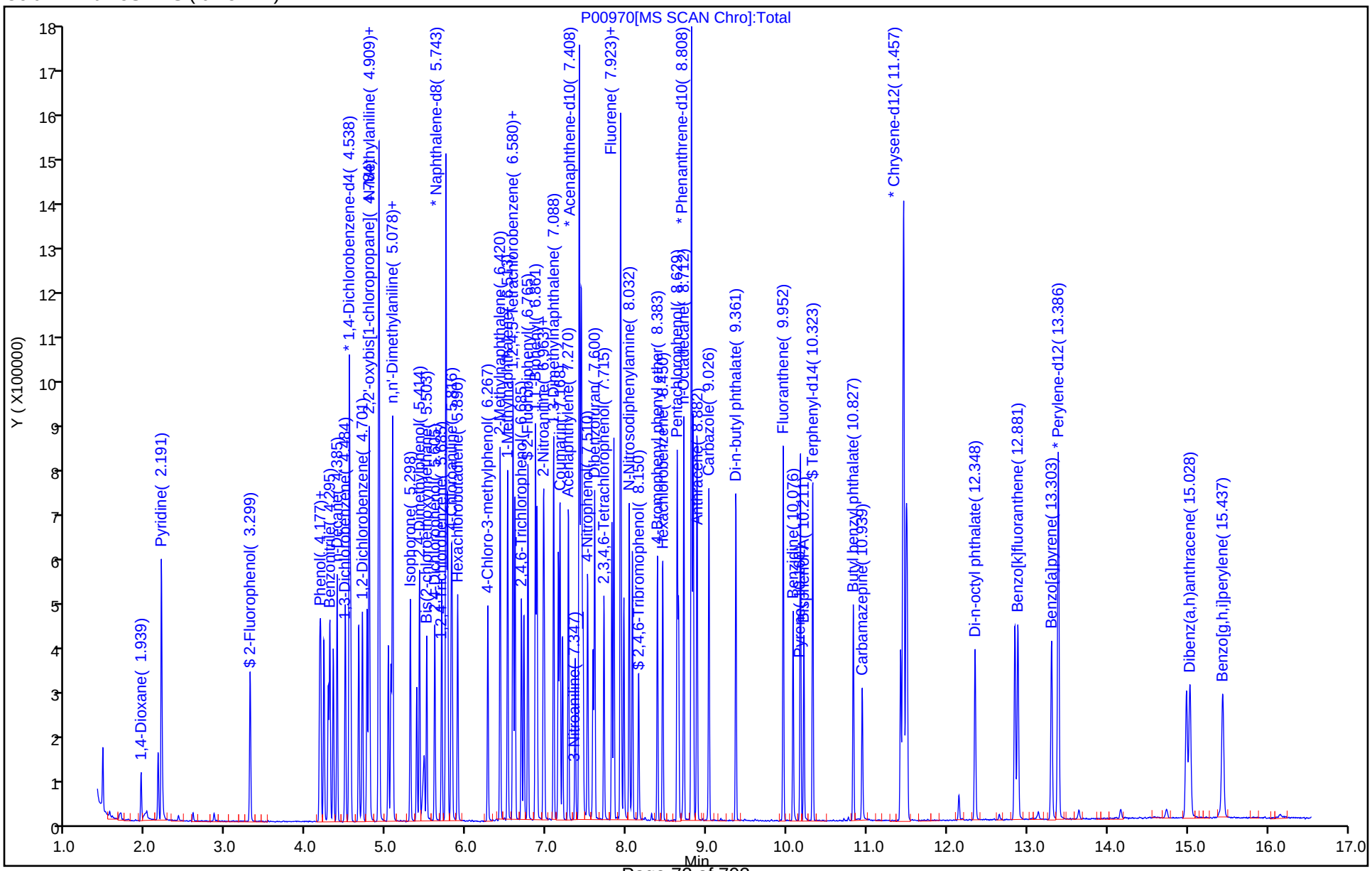
Report Date: 28-Mar-2018 12:37:34 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00970.D

Injection Date:	28-Mar-2018 00:05:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

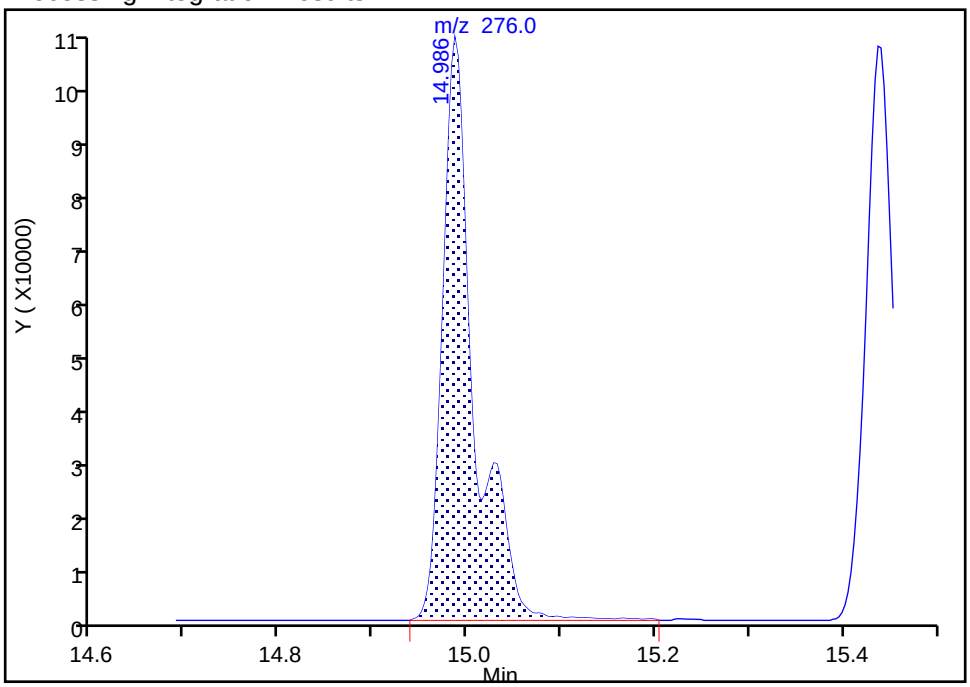
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00970.D				
Injection Date:	28-Mar-2018 00:05:30	Instrument ID:	CBNAMS18		
Lims ID:	STD4				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

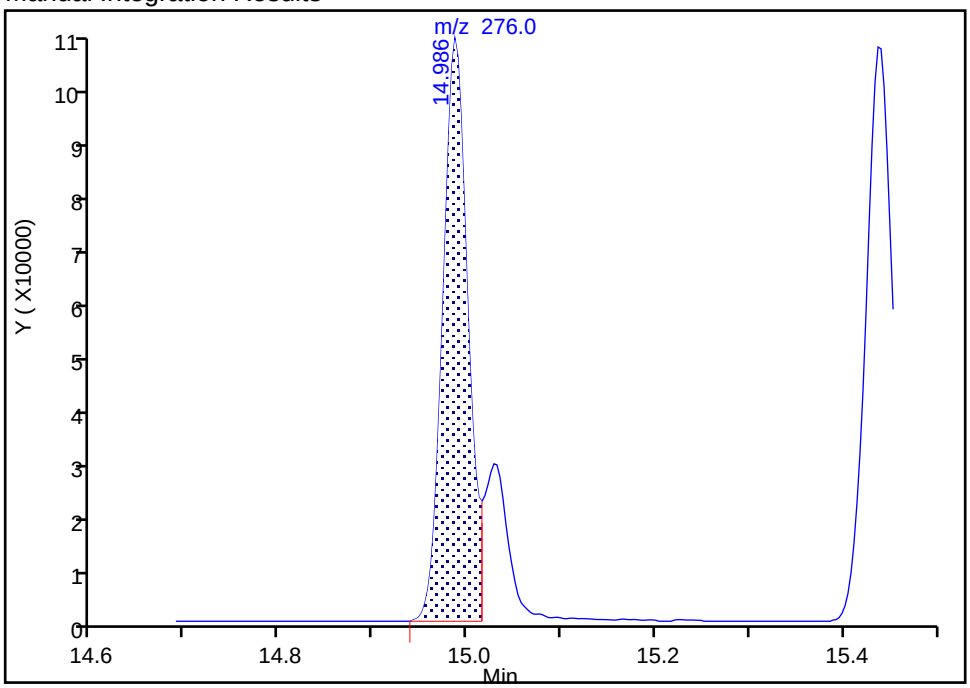
Processing Integration Results

RT: 14.99
Area: 234867
Amount: 4.137888
Amount Units: ug/ml



Manual Integration Results

RT: 14.99
Area: 186916
Amount: 3.773792
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:47:15

Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 28-Mar-2018 12:37:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00971.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2018 00:26:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-006
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:37:40 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:22:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.939	1.933	0.006	98	19271	2.00	1.98	
2 N-Nitrosodimethylamine	74	2.153	2.150	0.003	94	29894	2.00	1.86	
3 Pyridine	79	2.194	2.188	0.006	89	101304	4.00	3.74	
$ 4 2-Fluorophenol	112	3.299	3.300	-0.001	98	50459	2.00	1.79	
$ 6 Phenol-d5	99	4.167	4.172	-0.005	98	61933	2.00	1.83	
7 Phenol	94	4.180	4.185	-0.005	99	63519	2.00	1.85	
8 Aniline	93	4.218	4.223	-0.005	99	81593	2.00	1.90	
9 Bis(2-chloroethyl)ether	93	4.273	4.277	-0.004	95	52084	2.00	1.90	
10 Benzonitrile	103	4.292	4.296	-0.004	98	97474	NC	NC	
11 2-Chlorophenol	128	4.337	4.338	-0.001	96	55884	2.00	1.90	
12 n-Decane	43	4.385	4.386	-0.001	90	56009	2.00	1.93	
13 1,3-Dichlorobenzene	146	4.487	4.488	-0.001	96	63141	2.00	1.88	
* 14 1,4-Dichlorobenzene-d4	152	4.538	4.539	-0.001	97	170571	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.554	4.555	-0.001	96	64805	2.00	1.92	
16 Benzyl alcohol	108	4.656	4.658	-0.002	94	34213	2.00	1.87	
17 1,2-Dichlorobenzene	146	4.701	4.702	-0.001	96	59339	2.00	1.86	
18 2-Methylphenol	108	4.758	4.763	-0.005	90	49071	2.00	1.92	
19 2,2'-oxybis[1-chloropropan	45	4.787	4.792	-0.005	93	72485	2.00	1.88	
20 N-Methylaniline	106	4.902	4.907	-0.005	76	76546	2.00	1.83	
24 4-Methylphenol	108	4.902	4.907	-0.005	88	54162	2.00	1.87	
23 3 & 4 Methylphenol	108	4.902	4.907	-0.005	98	54162	2.00	1.87	
22 N-Nitrosodi-n-propylamine	70	4.908	4.913	-0.005	91	39992	2.00	1.88	
21 Acetophenone	105	4.912	4.913	-0.001	89	77762	2.00	1.91	
25 Hexachloroethane	117	5.023	5.025	-0.002	94	23406	2.00	1.84	
$ 27 Nitrobenzene-d5	82	5.055	5.057	-0.002	88	57134	2.00	1.80	
28 Nitrobenzene	123	5.075	5.076	-0.001	93	26298	2.00	1.89	
29 n,n'-Dimethylaniline	120	5.081	5.083	-0.002	93	81590	2.00	1.79	
30 Isophorone	82	5.298	5.300	-0.002	99	97273	2.00	1.85	
32 2-Nitrophenol	139	5.378	5.380	-0.002	92	28050	2.00	1.82	
33 2,4-Dimethylphenol	122	5.413	5.415	-0.002	91	49350	2.00	1.91	
35 Benzoic acid	122	5.458	5.495	-0.037	91	21131	2.00	1.59	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.503	5.505	-0.002	99	66023	2.00	1.91	
36 2,4-Dichlorophenol	162	5.605	5.607	-0.002	96	44791	2.00	1.85	
37 1,2,4-Trichlorobenzene	180	5.691	5.693	-0.002	93	54682	2.00	1.95	
* 38 Naphthalene-d8	136	5.742	5.745	-0.003	99	715409	8.00	8.00	
39 Naphthalene	128	5.765	5.764	0.001	99	164613	2.00	1.87	
40 4-Chloroaniline	127	5.809	5.812	-0.003	97	68555	2.00	1.87	
41 Hexachlorobutadiene	225	5.889	5.892	-0.003	95	30059	2.00	1.79	
43 4-Chloro-3-methylphenol	107	6.266	6.269	-0.003	97	45552	2.00	1.89	
44 2-Methylnaphthalene	142	6.419	6.422	-0.003	84	117581	2.00	1.90	
45 1-Methylnaphthalene	142	6.512	6.515	-0.003	93	110105	2.00	1.88	
46 Hexachlorocyclopentadiene	237	6.579	6.579	0.000	97	36287	2.00	1.78	
47 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	97	52673	2.00	1.86	
48 2-tertbutyl-4-methylphenol	149	6.605	6.608	-0.003	90	70122	2.00	1.79	
49 2,4,6-Trichlorophenol	196	6.685	6.688	-0.003	90	33080	2.00	1.87	
50 2,4,5-Trichlorophenol	196	6.717	6.717	0.000	97	34380	2.00	1.80	
$ 51 2-Fluorobiphenyl	172	6.768	6.768	0.000	98	125380	2.00	1.82	
52 1,1'-Biphenyl	154	6.860	6.864	-0.004	95	136485	2.00	1.86	
53 2-Chloronaphthalene	162	6.880	6.880	0.000	97	103356	2.00	1.86	
54 Phenyl ether	170	6.959	6.963	-0.004	86	66462	2.00	1.79	
55 2-Nitroaniline	65	6.969	6.973	-0.004	97	33684	2.00	1.86	
57 1,3-Dimethylnaphthalene	156	7.087	7.088	-0.001	91	81342	2.00	1.79	
59 Dimethyl phthalate	163	7.145	7.149	-0.004	99	122649	2.00	1.95	
60 Coumarin	146	7.164	7.171	-0.007	76	37624	2.00	1.94	
61 2,6-Dinitrotoluene	165	7.199	7.200	-0.001	95	25863	2.00	1.91	
62 Acenaphthylene	152	7.273	7.273	0.000	98	156560	2.00	1.89	
63 3-Nitroaniline	138	7.356	7.360	-0.004	96	29881	2.00	1.97	
* 64 Acenaphthene-d10	164	7.407	7.408	-0.001	98	336256	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.426	7.427	-0.001	97	96575	2.00	1.79	
66 Acenaphthene	154	7.436	7.440	-0.004	96	116626	2.00	2.03	
67 2,4-Dinitrophenol	184	7.455	7.456	-0.001	92	27734	4.00	3.49	
68 4-Nitrophenol	65	7.509	7.517	-0.008	91	40879	4.00	3.88	
69 2,4-Dinitrotoluene	165	7.580	7.581	-0.001	94	34746	2.00	1.91	
70 Dibenzofuran	168	7.599	7.600	-0.001	96	151208	2.00	1.92	
72 2,3,4,6-Tetrachlorophenol	232	7.717	7.718	-0.001	92	29661	2.00	1.84	
73 Diethyl phthalate	149	7.813	7.817	-0.004	98	125024	2.00	1.93	
75 Fluorene	166	7.922	7.923	-0.001	94	118876	2.00	1.93	
74 4-Chlorophenyl phenyl ethe	204	7.922	7.923	-0.001	92	60811	2.00	1.98	
76 4-Nitroaniline	138	7.931	7.936	-0.005	91	28698	2.00	1.92	
77 4,6-Dinitro-2-methylphenol	198	7.963	7.968	-0.005	83	32702	4.00	3.47	
78 N-Nitrosodiphenylamine	169	8.030	8.032	-0.002	99	87471	2.00	1.84	
79 1,2-Diphenylhydrazine	77	8.072	8.074	-0.001	99	111887	2.00	1.82	
$ 80 2,4,6-Tribromophenol	330	8.148	8.150	-0.002	93	18988	2.00	1.91	
81 4-Bromophenyl phenyl ether	248	8.382	8.384	-0.002	92	35837	2.00	1.79	
82 Hexachlorobenzene	284	8.449	8.451	-0.002	96	40241	2.00	1.85	
84 Pentachlorophenol	266	8.631	8.630	0.001	93	43448	4.00	3.56	
85 Pentachloronitrobenzene	237	8.647	8.649	-0.002	88	16229	2.00	1.80	
86 n-Octadecane	57	8.714	8.713	0.001	93	84239	2.00	1.80	
* 87 Phenanthrene-d10	188	8.807	8.809	-0.002	99	657102	8.00	8.00	
88 Phenanthrene	178	8.829	8.832	-0.003	97	179902	2.00	1.91	
89 Anthracene	178	8.877	8.877	0.000	98	177526	2.00	1.85	
90 Carbazole	167	9.024	9.027	-0.003	96	151829	2.00	1.92	
91 Di-n-butyl phthalate	149	9.363	9.362	0.001	99	192533	2.00	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.953	9.953	0.000	98	172006	2.00	1.90	
93 Benzidine	184	10.075	10.078	-0.003	99	73721	2.00	1.91	
94 Pyrene	202	10.167	10.168	-0.001	97	176177	2.00	2.01	
95 Bisphenol-A	213	10.212	10.213	-0.001	98	61328	2.00	1.84	
$ 96 Terphenyl-d14	244	10.321	10.321	0.000	98	135627	2.00	1.96	
97 Butyl benzyl phthalate	149	10.828	10.829	-0.001	96	65149	2.00	1.92	
99 Carbamazepine	193	10.937	10.941	-0.004	92	37960	2.00	2.03	
100 3,3'-Dichlorobenzidine	252	11.419	11.421	-0.002	99	41799	2.00	1.74	
101 Benzo[a]anthracene	228	11.445	11.446	-0.001	99	133478	2.00	1.87	
* 102 Chrysene-d12	240	11.458	11.456	0.002	99	466602	8.00	8.00	
104 Chrysene	228	11.487	11.488	-0.002	99	124566	2.00	1.91	
103 Bis(2-ethylhexyl) phthalat	149	11.499	11.501	-0.002	84	87213	2.00	1.92	
105 Di-n-octyl phthalate	149	12.349	12.348	0.001	96	120127	2.00	1.85	
106 Benzo[b]fluoranthene	252	12.844	12.846	-0.002	98	113831	2.00	1.92	
107 Benzo[k]fluoranthene	252	12.882	12.884	-0.002	99	112005	2.00	1.83	
108 Benzo[a]pyrene	252	13.300	13.306	-0.006	97	104888	2.00	1.91	
* 109 Perylene-d12	264	13.387	13.386	0.001	99	395952	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.984	14.990	-0.006	98	90675	2.00	1.79	M
111 Dibenz(a,h)anthracene	278	15.025	15.032	-0.007	97	96607	2.00	1.86	
112 Benzo[g,h,i]perylene	276	15.434	15.444	-0.010	96	94601	2.00	1.73	
S 119 Total Cresols	1				0			3.79	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL4_00038 Amount Added: 1.00 Units: mL

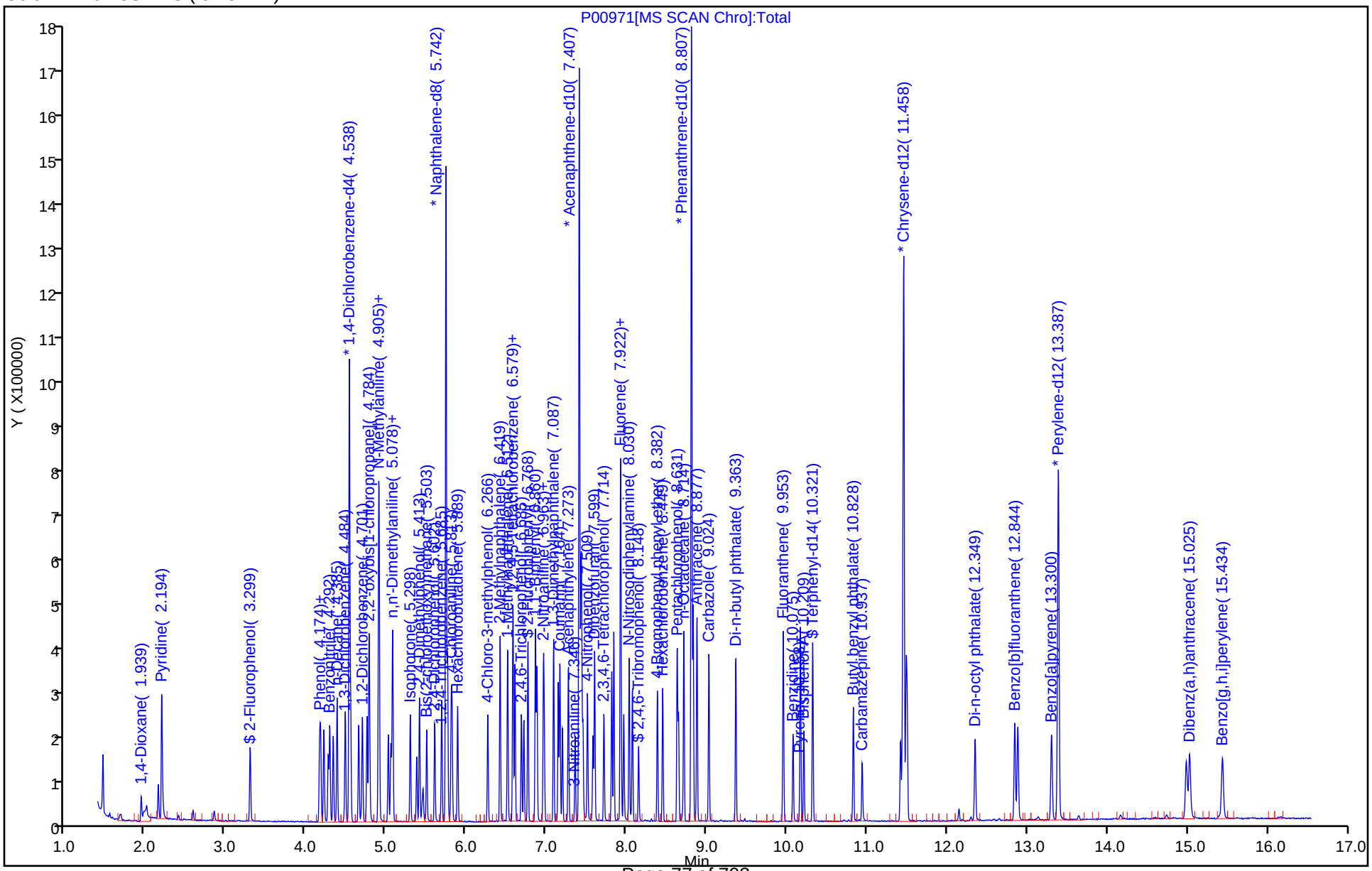
Report Date: 28-Mar-2018 12:37:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00971.D

Injection Date:	28-Mar-2018 00:26:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

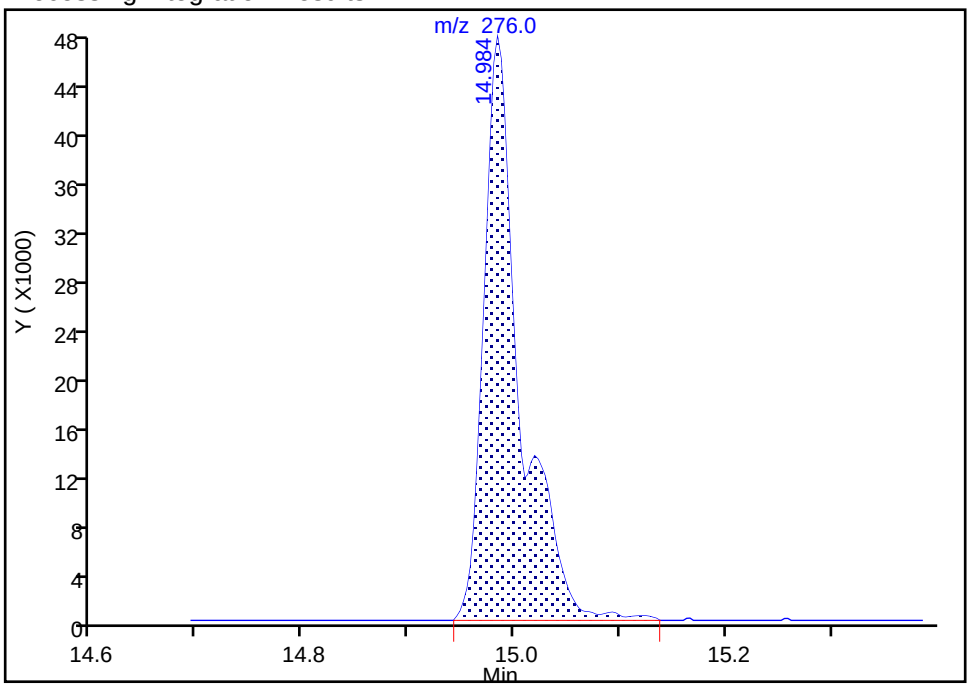
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00971.D
Injection Date: 28-Mar-2018 00:26:30 Instrument ID: CBNAMS18
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

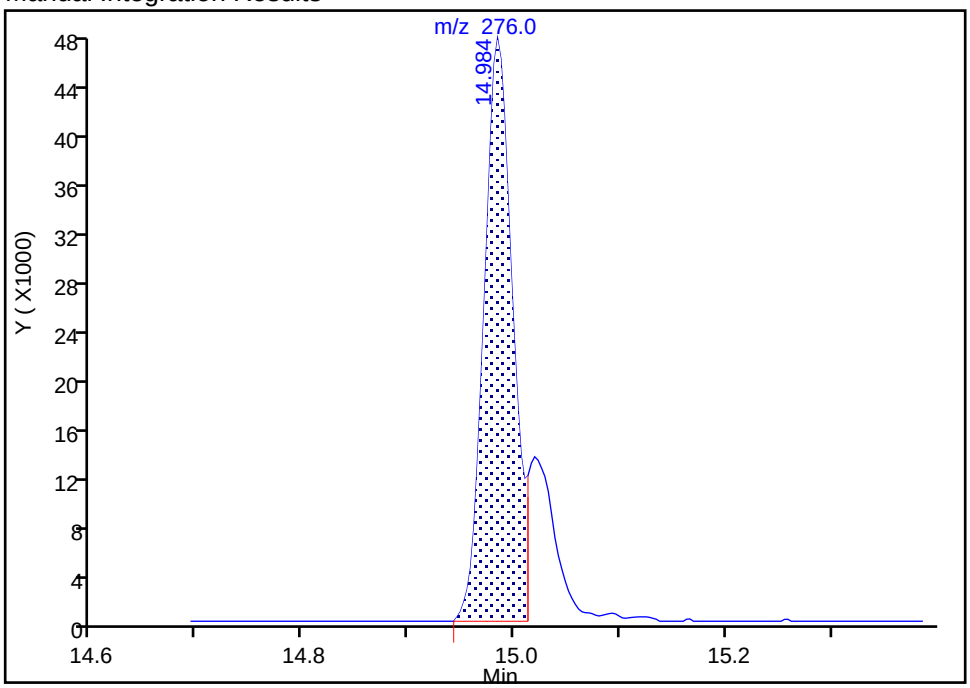
Processing Integration Results

RT: 14.98
Area: 113841
Amount: 2.018737
Amount Units: ug/ml



Manual Integration Results

RT: 14.98
Area: 90675
Amount: 1.787122
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:48:22
Audit Action: Manually Integrated Audit Reason: Shouldering

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00972.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2018 00:47:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-007
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:37:53 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:23:23

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.942	1.933	0.009	96	8865	1.00	1.02	
	2 N-Nitrosodimethylamine	74	2.156	2.150	0.006	89	14456	1.00	1.00	
	3 Pyridine	79	2.201	2.188	0.013	89	45424	2.00	1.87	
$	4 2-Fluorophenol	112	3.299	3.300	-0.001	97	24840	1.00	0.9847	
$	6 Phenol-d5	99	4.164	4.172	-0.008	98	29509	1.00	0.9727	
	7 Phenol	94	4.177	4.185	-0.008	98	31120	1.00	1.01	
	8 Aniline	93	4.218	4.223	-0.005	100	37539	1.00	0.9735	
	9 Bis(2-chloroethyl)ether	93	4.273	4.277	-0.004	93	25768	1.00	1.05	
	10 Benzonitrile	103	4.292	4.296	-0.004	98	49342	NC	NC	
	11 2-Chlorophenol	128	4.337	4.338	-0.001	95	25358	1.00	0.9637	
	12 n-Decane	43	4.384	4.386	-0.002	90	27225	1.00	1.04	
	13 1,3-Dichlorobenzene	146	4.487	4.488	-0.001	95	30921	1.00	1.02	
*	14 1,4-Dichlorobenzene-d4	152	4.538	4.539	-0.001	96	152953	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.554	4.555	-0.001	79	30674	1.00	1.01	a
	16 Benzyl alcohol	108	4.653	4.658	-0.005	94	15712	1.00	0.9578	
	17 1,2-Dichlorobenzene	146	4.701	4.702	-0.001	95	28708	1.00	1.00	
	18 2-Methylphenol	108	4.758	4.763	-0.005	87	22727	1.00	0.9898	
	19 2,2'-oxybis[1-chloropropan	45	4.790	4.792	-0.002	93	35615	1.00	1.03	
	23 3 & 4 Methylphenol	108	4.902	4.907	-0.005	94	26856	1.00	1.03	
	24 4-Methylphenol	108	4.902	4.907	-0.005	83	26856	1.00	1.04	
	20 N-Methylaniline	106	4.902	4.907	-0.005	79	36698	1.00	0.9841	
	21 Acetophenone	105	4.908	4.913	-0.005	91	37871	1.00	1.04	
	22 N-Nitrosodi-n-propylamine	70	4.908	4.913	-0.005	86	19696	1.00	1.03	
	25 Hexachloroethane	117	5.023	5.025	-0.002	92	11053	1.00	0.9680	
$	27 Nitrobenzene-d5	82	5.055	5.057	-0.002	87	27679	1.00	0.9723	
	28 Nitrobenzene	123	5.074	5.076	-0.002	93	12556	1.00	1.00	
	29 n,n'-Dimethylaniline	120	5.081	5.083	-0.002	93	40357	1.00	0.9884	
	30 Isophorone	82	5.298	5.300	-0.002	99	48035	1.00	1.02	
	32 2-Nitrophenol	139	5.378	5.380	-0.002	92	13035	1.00	0.9411	
	33 2,4-Dimethylphenol	122	5.413	5.415	-0.002	92	22876	1.00	0.9846	
	35 Benzoic acid	122	5.448	5.495	-0.047	87	10089	1.00	0.8449	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.502	5.505	-0.003	99	31472	1.00	1.02	
36 2,4-Dichlorophenol	162	5.604	5.607	-0.003	95	21546	1.00	0.9882	
37 1,2,4-Trichlorobenzene	180	5.691	5.693	-0.002	94	25148	1.00	1.00	
* 38 Naphthalene-d8	136	5.742	5.745	-0.003	99	642954	8.00	8.00	
39 Naphthalene	128	5.764	5.764	0.000	99	78634	1.00	0.99	
40 4-Chloroaniline	127	5.809	5.812	-0.003	97	33371	1.00	1.02	
41 Hexachlorobutadiene	225	5.889	5.892	-0.003	95	15237	1.00	1.01	
43 4-Chloro-3-methylphenol	107	6.265	6.269	-0.004	95	20769	1.00	0.9573	
44 2-Methylnaphthalene	142	6.419	6.422	-0.003	83	55078	1.00	0.9885	
45 1-Methylnaphthalene	142	6.515	6.515	0.000	92	53455	1.00	1.02	
46 Hexachlorocyclopentadiene	237	6.578	6.579	-0.001	97	17945	1.00	0.9677	
47 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	97	25556	1.00	0.9881	
48 2-tertbutyl-4-methylphenol	149	6.604	6.608	-0.004	90	34359	1.00	0.9777	
49 2,4,6-Trichlorophenol	196	6.684	6.688	-0.004	90	15207	1.00	0.9415	
50 2,4,5-Trichlorophenol	196	6.716	6.717	-0.001	95	16201	1.00	0.9311	
$ 51 2-Fluorobiphenyl	172	6.767	6.768	-0.001	98	60252	1.00	0.9608	
52 1,1'-Biphenyl	154	6.860	6.864	-0.004	95	66371	1.00	0.99	
53 2-Chloronaphthalene	162	6.879	6.880	-0.001	97	50935	1.00	1.00	
54 Phenyl ether	170	6.959	6.963	-0.004	87	34153	1.00	1.01	
55 2-Nitroaniline	65	6.968	6.973	-0.005	98	16826	1.00	1.02	
57 1,3-Dimethylnaphthalene	156	7.086	7.088	-0.002	89	41040	1.00	0.9898	
59 Dimethyl phthalate	163	7.144	7.149	-0.005	99	59178	1.00	1.03	
60 Coumarin	146	7.166	7.171	-0.005	75	18763	1.00	1.07	
61 2,6-Dinitrotoluene	165	7.198	7.200	-0.002	94	11906	1.00	0.9651	
62 Acenaphthylene	152	7.272	7.273	-0.001	97	73709	1.00	0.9757	
63 3-Nitroaniline	138	7.355	7.360	-0.005	94	14040	1.00	1.02	
* 64 Acenaphthene-d10	164	7.406	7.408	-0.002	99	306681	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.425	7.427	-0.002	97	49177	1.00	1.00	
66 Acenaphthene	154	7.438	7.440	-0.002	95	55966	1.00	1.07	
67 2,4-Dinitrophenol	184	7.454	7.456	-0.002	95	12473	2.00	1.72	
68 4-Nitrophenol	65	7.508	7.517	-0.009	91	19760	2.00	2.06	
69 2,4-Dinitrotoluene	165	7.579	7.581	-0.002	95	16424	1.00	0.9883	
70 Dibenzofuran	168	7.598	7.600	-0.002	96	72231	1.00	1.00	
72 2,3,4,6-Tetrachlorophenol	232	7.716	7.718	-0.002	93	14716	1.00	1.00	
73 Diethyl phthalate	149	7.812	7.817	-0.005	97	61432	1.00	1.04	
74 4-Chlorophenyl phenyl ethe	204	7.920	7.923	-0.003	91	29310	1.00	1.05	
75 Fluorene	166	7.920	7.923	-0.003	92	57369	1.00	1.02	
76 4-Nitroaniline	138	7.930	7.936	-0.006	91	13760	1.00	1.01	
77 4,6-Dinitro-2-methylphenol	198	7.962	7.968	-0.006	84	14831	2.00	1.70	
78 N-Nitrosodiphenylamine	169	8.029	8.032	-0.003	99	43139	1.00	0.9813	
79 1,2-Diphenylhydrazine	77	8.071	8.074	-0.002	100	55126	1.00	0.9682	
$ 80 2,4,6-Tribromophenol	330	8.147	8.150	-0.003	92	8540	1.00	0.9419	
81 4-Bromophenyl phenyl ether	248	8.384	8.384	0.000	90	17677	1.00	0.9528	
82 Hexachlorobenzene	284	8.447	8.451	-0.004	95	20474	1.00	1.02	
84 Pentachlorophenol	266	8.629	8.630	-0.001	91	20018	2.00	1.77	
85 Pentachloronitrobenzene	237	8.645	8.649	-0.004	88	8274	1.00	0.99	
86 n-Octadecane	57	8.713	8.713	0.000	92	40868	1.00	0.9453	
* 87 Phenanthrene-d10	188	8.808	8.809	-0.001	99	608173	8.00	8.00	
88 Phenanthrene	178	8.828	8.832	-0.004	96	88352	1.00	1.02	
89 Anthracene	178	8.876	8.877	-0.001	99	89209	1.00	1.01	
90 Carbazole	167	9.026	9.027	-0.001	97	73147	1.00	1.00	
91 Di-n-butyl phthalate	149	9.361	9.362	-0.001	99	93624	1.00	0.9839	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.952	9.953	-0.001	99	86601	1.00	1.03	
93 Benzidine	184	10.076	10.078	-0.002	99	26227	1.00	1.04	
94 Pyrene	202	10.169	10.168	0.001	96	86453	1.00	1.02	
95 Bisphenol-A	213	10.210	10.213	-0.003	98	27825	1.00	0.8640	
$ 96 Terphenyl-d14	244	10.322	10.321	0.001	98	66806	1.00	1.00	
97 Butyl benzyl phthalate	149	10.827	10.829	-0.003	96	31105	1.00	0.9473	
99 Carbamazepine	193	10.938	10.941	-0.003	92	18204	1.00	1.27	
100 3,3'-Dichlorobenzidine	252	11.417	11.421	-0.004	99	21905	1.00	0.9439	
101 Benzo[a]anthracene	228	11.443	11.446	-0.003	98	65300	1.00	0.9463	
* 102 Chrysene-d12	240	11.456	11.456	0.000	99	451507	8.00	8.00	
104 Chrysene	228	11.488	11.488	0.000	98	64480	1.00	1.02	
103 Bis(2-ethylhexyl) phthalat	149	11.500	11.501	-0.001	84	41259	1.00	0.9387	
105 Di-n-octyl phthalate	149	12.350	12.348	0.002	96	55109	1.00	0.8873	
106 Benzo[b]fluoranthene	252	12.841	12.846	-0.005	97	55722	1.00	0.9815	
107 Benzo[k]fluoranthene	252	12.880	12.884	-0.004	99	57805	1.00	0.9861	
108 Benzo[a]pyrene	252	13.301	13.306	-0.005	93	50249	1.00	0.9558	
* 109 Perylene-d12	264	13.388	13.386	0.002	98	378215	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.985	14.990	-0.005	97	41801	1.00	0.8625	M
111 Dibenz(a,h)anthracene	278	15.029	15.032	-0.003	97	46605	1.00	0.9400	
112 Benzo[g,h,i]perylene	276	15.432	15.444	-0.012	98	46118	1.00	0.8845	
S 119 Total Cresols	1				0			2.02	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SM_BNAL3_00034 Amount Added: 1.00 Units: mL

Report Date: 28-Mar-2018 12:37:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00972.D

Injection Date: 28-Mar-2018 00:47:30 Instrument ID: CBNAMS18 Operator ID:

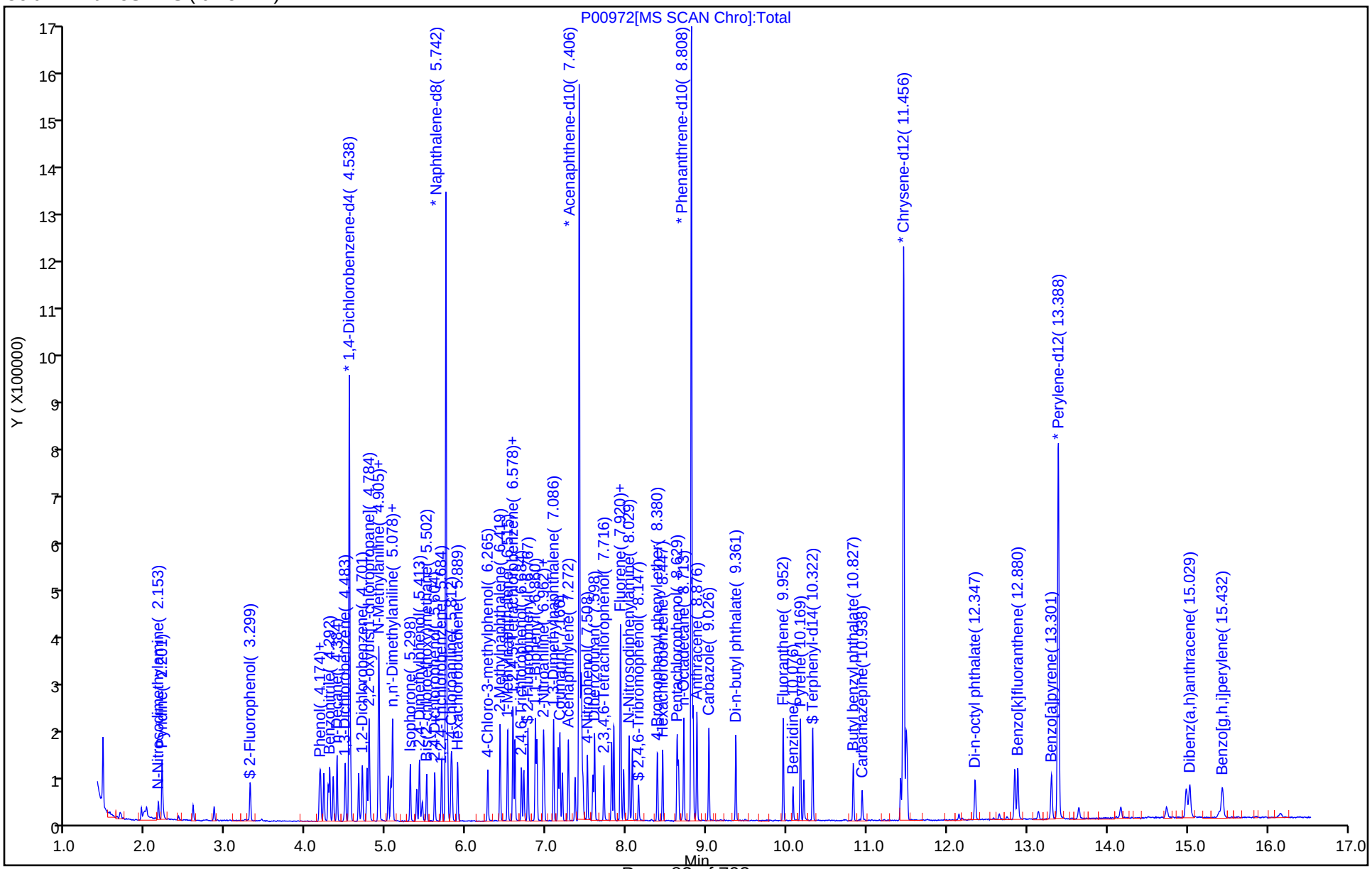
Lims ID: STD1 Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

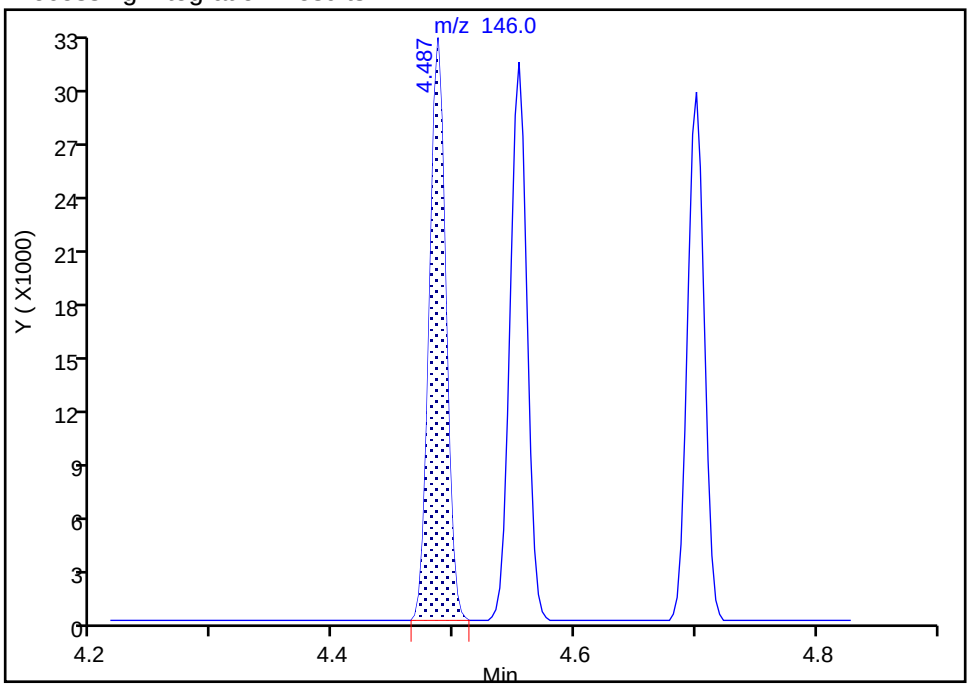
Data File:	\\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00972.D				
Injection Date:	28-Mar-2018 00:47:30	Instrument ID:	CBNAMS18		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

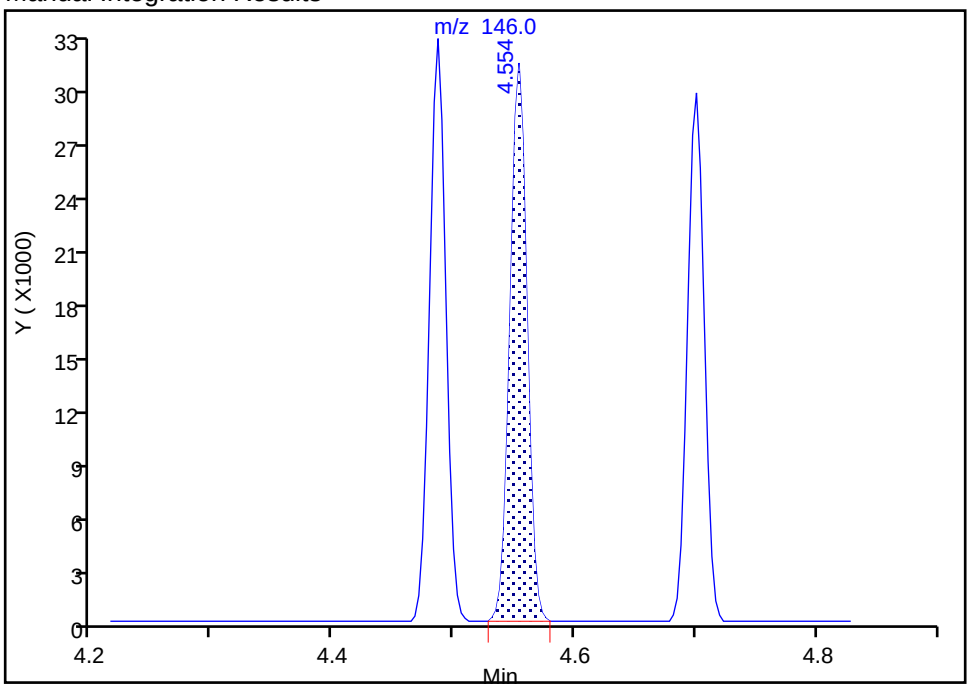
Processing Integration Results

RT: 4.49
Area: 30921
Amount: 1.019026
Amount Units: ug/ml



Manual Integration Results

RT: 4.55
Area: 30674
Amount: 1.012259
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Mar-2018 08:22:49

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

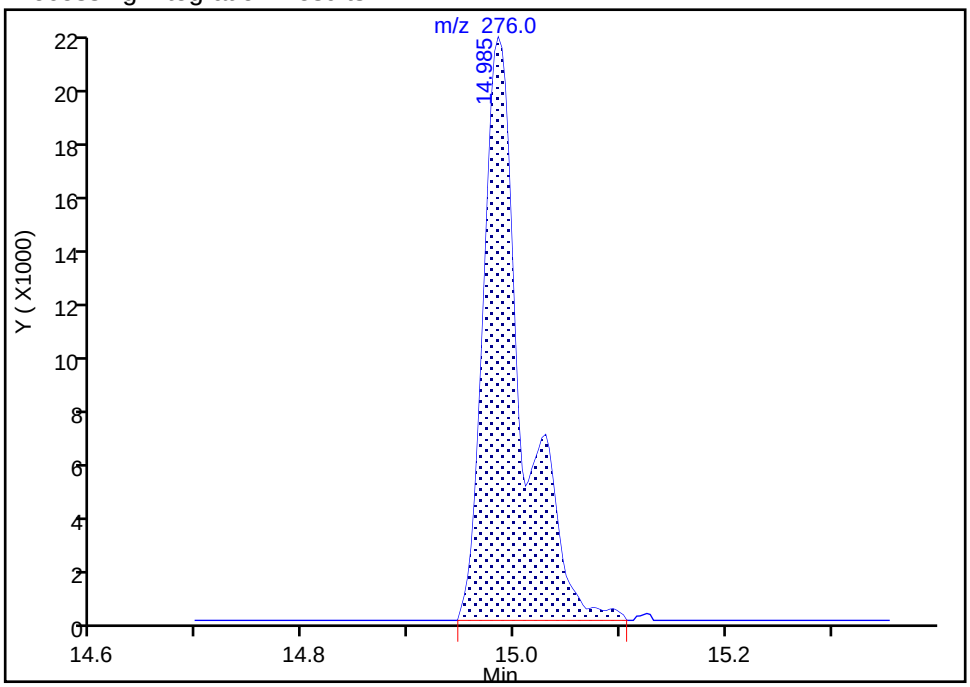
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00972.D
Injection Date: 28-Mar-2018 00:47:30 Instrument ID: CBNAMS18
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

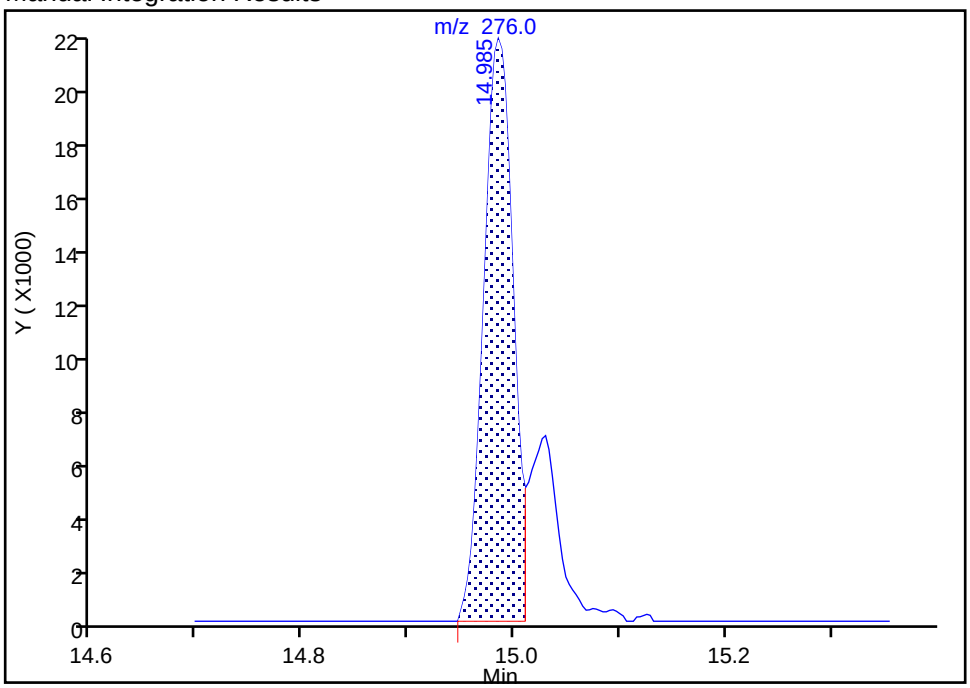
Processing Integration Results

RT: 14.98
Area: 55025
Amount: 1.052357
Amount Units: ug/ml



Manual Integration Results

RT: 14.98
Area: 41801
Amount: 0.862496
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:49:52
Audit Action: Manually Integrated Audit Reason: Shouldering

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00973.D
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2018 01:08:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-008
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:38:05 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:24:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.302	3.300	0.002	91	4970	0.2000	0.1922	
$ 6 Phenol-d5	99	4.167	4.172	-0.005	96	6056	0.2000	0.1948	
9 Bis(2-chloroethyl)ether	93	4.275	4.277	-0.002	89	4982	0.2000	0.1977	
* 14 1,4-Dichlorobenzene-d4	152	4.537	4.539	-0.002	96	156755	8.00	8.00	
20 N-Methylaniline	106	4.901	4.907	-0.006	79	7141	0.2000	0.1874	
22 N-Nitrosodi-n-propylamine	70	4.908	4.913	-0.005	73	3975	0.2000	0.2030	
25 Hexachloroethane	117	5.023	5.025	-0.002	89	2865	0.2000	0.2448	
$ 27 Nitrobenzene-d5	82	5.055	5.057	-0.002	89	5851	0.2000	0.2040	
28 Nitrobenzene	123	5.074	5.076	-0.002	92	2156	0.2000	0.1682	
29 n,n'-Dimethylaniline	120	5.080	5.083	-0.003	93	8377	0.2000	0.2002	
30 Isophorone	82	5.297	5.300	-0.003	98	9456	0.2000	0.1988	
37 1,2,4-Trichlorobenzene	180	5.690	5.693	-0.003	94	4727	0.2000	0.1864	
* 38 Naphthalene-d8	136	5.744	5.745	-0.001	99	647748	8.00	8.00	
41 Hexachlorobutadiene	225	5.891	5.892	-0.001	95	3436	0.2000	0.2257	
44 2-Methylnaphthalene	142	6.418	6.422	-0.004	84	11413	0.2000	0.2033	
48 2-tertbutyl-4-methylphenol	149	6.603	6.608	-0.005	90	7260	0.2000	0.2051	
$ 51 2-Fluorobiphenyl	172	6.766	6.768	-0.002	98	13702	0.2000	0.2136	
61 2,6-Dinitrotoluene	165	7.197	7.200	-0.003	91	2401	0.2000	0.1903	
* 64 Acenaphthene-d10	164	7.408	7.408	0.000	98	313735	8.00	8.00	
69 2,4-Dinitrotoluene	165	7.577	7.581	-0.004	92	3470	0.2000	0.2041	
$ 80 2,4,6-Tribromophenol	330	8.149	8.150	-0.001	87	1550	0.2000	0.1671	
82 Hexachlorobenzene	284	8.449	8.451	-0.002	96	3646	0.2000	0.1717	
* 87 Phenanthrene-d10	188	8.806	8.809	-0.003	99	640542	8.00	8.00	
$ 96 Terphenyl-d14	244	10.323	10.321	0.002	97	14393	0.2000	0.2066	
100 3,3'-Dichlorobenzidine	252	11.418	11.421	-0.003	93	3512	0.2000	0.1455	
101 Benzo[a]anthracene	228	11.443	11.446	-0.003	98	14368	0.2000	0.2002	
* 102 Chrysene-d12	240	11.456	11.456	0.000	99	469684	8.00	8.00	
104 Chrysene	228	11.485	11.488	-0.003	97	12998	0.2000	0.1975	
103 Bis(2-ethylhexyl) phthalat	149	11.501	11.501	0.000	86	7859	0.2000	0.1719	
106 Benzo[b]fluoranthene	252	12.842	12.846	-0.004	97	11653	0.2000	0.2007	
107 Benzo[k]fluoranthene	252	12.880	12.884	-0.004	98	12020	0.2000	0.2005	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
108 Benzo[a]pyrene	252	13.299	13.306	-0.007	96	9651	0.2000	0.1795	
* 109 Perylene-d12	264	13.388	13.386	0.002	98	386877	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.982	14.990	-0.008	96	8313	0.2000	0.1677	M
111 Dibenz(a,h)anthracene	278	15.023	15.032	-0.009	94	8613	0.2000	0.1698	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL2_00029 Amount Added: 1.00 Units: mL

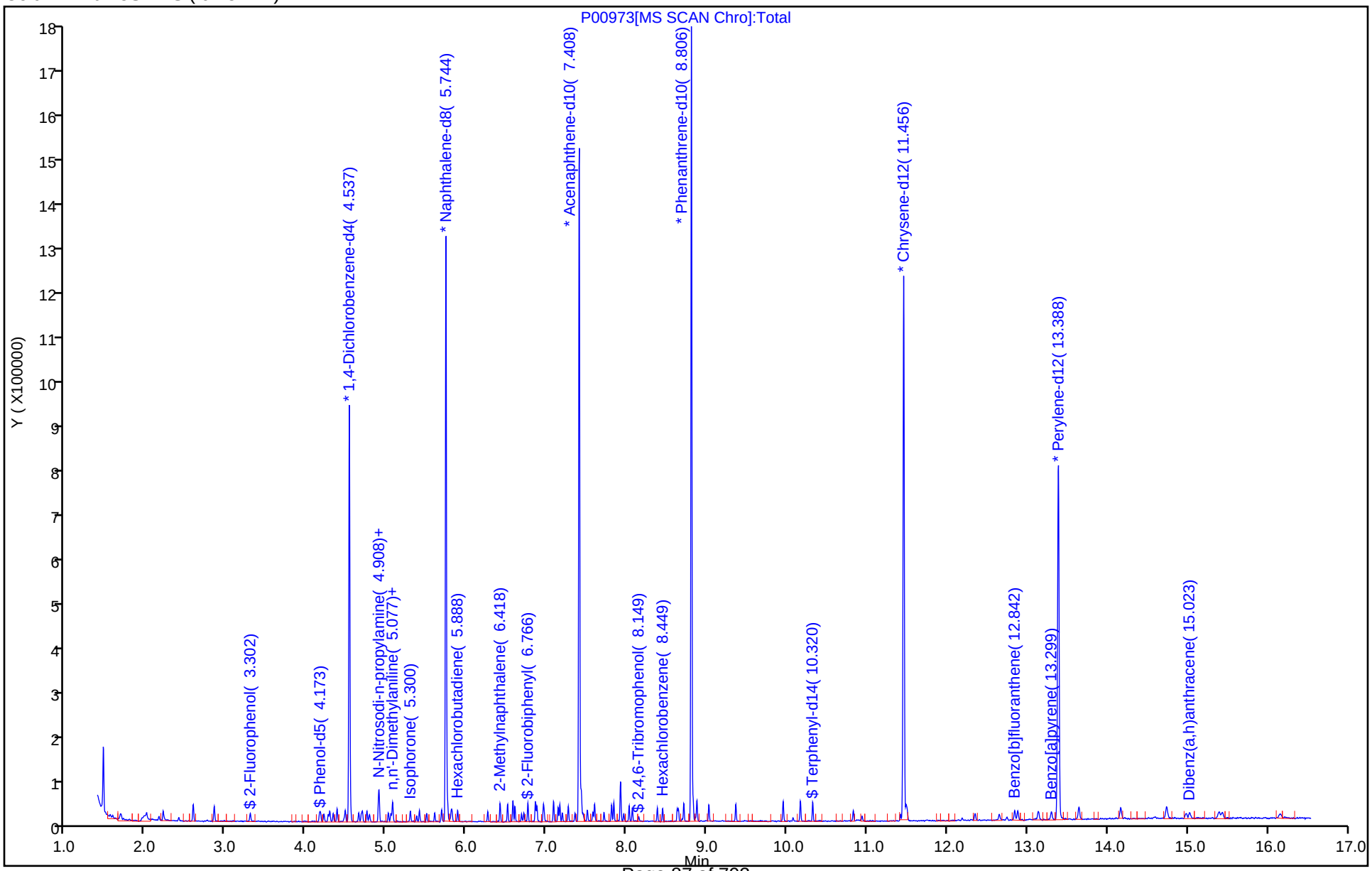
Report Date: 28-Mar-2018 12:38:09 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00973.D

Injection Date:	28-Mar-2018 01:08:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD02			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

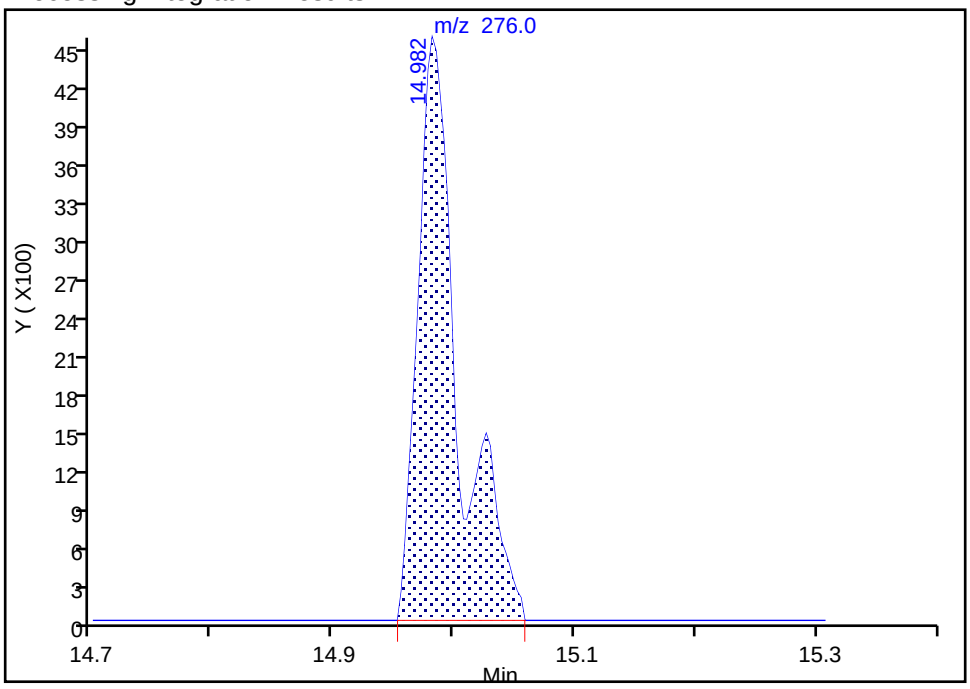
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00973.D
Injection Date: 28-Mar-2018 01:08:30 Instrument ID: CBNAMS18
Lims ID: STD02
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

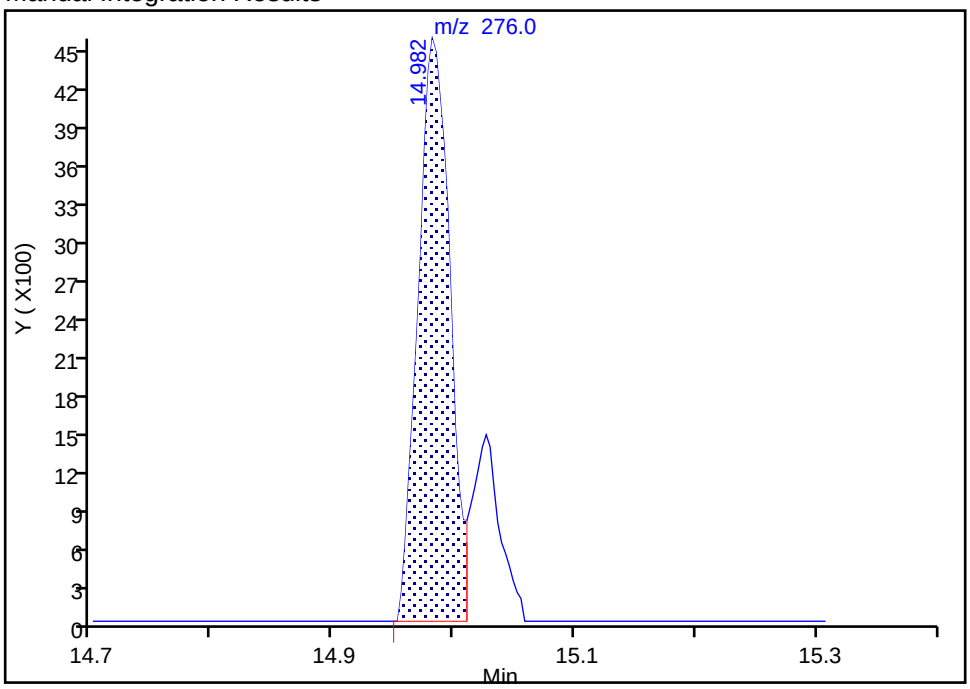
Processing Integration Results

RT: 14.98
Area: 10495
Amount: 0.203508
Amount Units: ug/ml



Manual Integration Results

RT: 14.98
Area: 8313
Amount: 0.167685
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Mar-2018 08:23:50
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00974.D
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2018 01:29:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-009
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 28-Mar-2018 12:38:15 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: johnstonm1 Date: 28-Mar-2018 08:25:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.302	3.300	0.002	94	2769	0.1000	0.1104	
9 Bis(2-chloroethyl)ether	93	4.275	4.277	-0.002	85	2429	0.1000	0.0994	
* 14 1,4-Dichlorobenzene-d4	152	4.537	4.539	-0.002	96	152075	8.00	8.00	
20 N-Methylaniline	106	4.901	4.907	-0.006	72	2075	0.1000	0.0562	
22 N-Nitrosodi-n-propylamine	70	4.911	4.913	-0.002	52	1982	0.1000	0.1043	a
25 Hexachloroethane	117	5.023	5.025	-0.003	89	1099	0.1000	0.0968	
$ 27 Nitrobenzene-d5	82	5.054	5.057	-0.003	89	3189	0.1000	0.1149	
28 Nitrobenzene	123	5.074	5.076	-0.002	82	1387	0.1000	0.1115	
29 n,n'-Dimethylaniline	120	5.080	5.083	-0.003	91	4063	0.1000	0.1001	
37 1,2,4-Trichlorobenzene	180	5.690	5.693	-0.003	94	2504	0.1000	0.1020	
* 38 Naphthalene-d8	136	5.744	5.745	-0.001	99	626922	8.00	8.00	
41 Hexachlorobutadiene	225	5.891	5.892	-0.001	93	1551	0.1000	0.1053	
* 64 Acenaphthene-d10	164	7.407	7.408	-0.001	98	306915	8.00	8.00	
82 Hexachlorobenzene	284	8.448	8.451	-0.003	88	2446	0.1000	0.1175	
* 87 Phenanthrene-d10	188	8.806	8.809	-0.003	99	627675	8.00	8.00	
$ 96 Terphenyl-d14	244	10.322	10.321	0.001	97	7242	0.1000	0.1084	
101 Benzo[a]anthracene	228	11.443	11.446	-0.003	97	8260	0.1000	0.1200	
* 102 Chrysene-d12	240	11.456	11.456	0.000	100	450509	8.00	8.00	
107 Benzo[k]fluoranthene	252	12.876	12.884	-0.008	96	6197	0.1000	0.1055	
108 Benzo[a]pyrene	252	13.301	13.306	-0.005	96	4575	0.1000	0.0868	
* 109 Perylene-d12	264	13.387	13.386	0.001	98	379021	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.987	14.990	-0.003	96	4573	0.1000	0.0942	M
111 Dibenz(a,h)anthracene	278	15.026	15.032	-0.006	95	4380	0.1000	0.0882	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_BNAL1_00027 Amount Added: 1.00 Units: mL

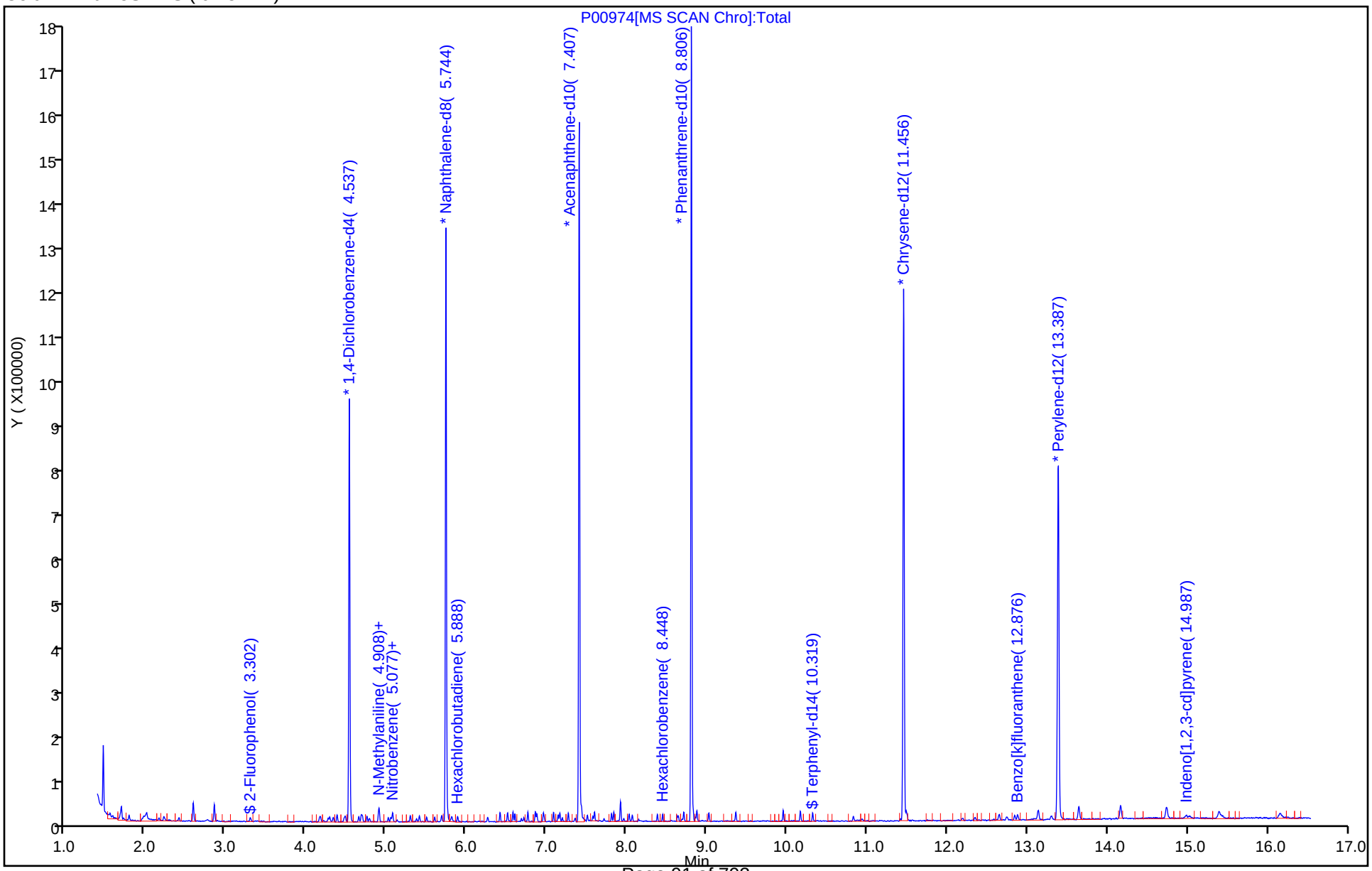
Report Date: 28-Mar-2018 12:38:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00974.D

Injection Date:	28-Mar-2018 01:29:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	STD01			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

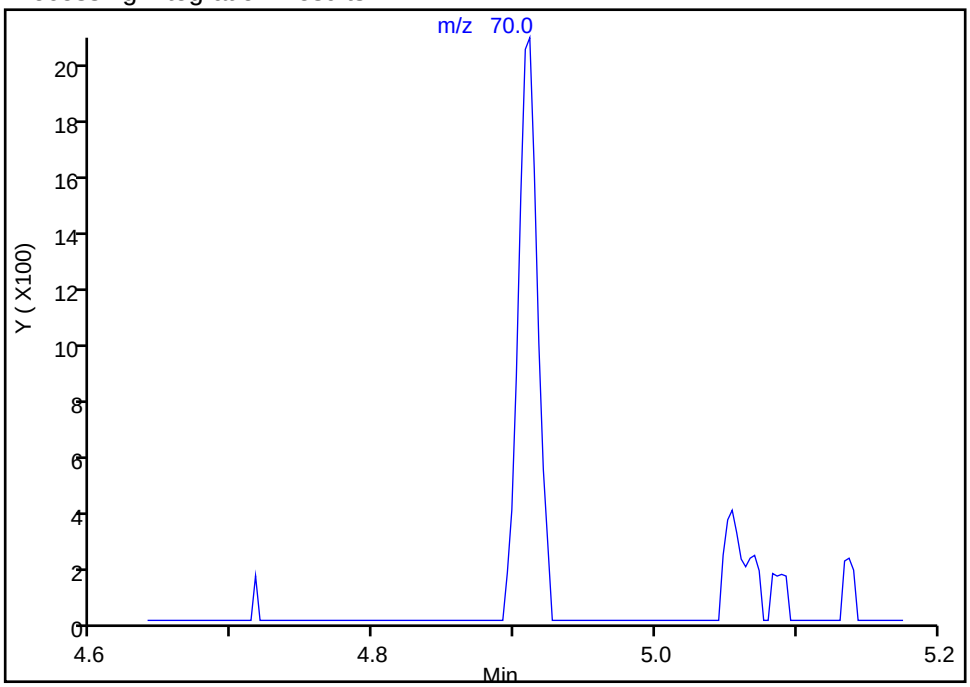
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00974.D
Injection Date: 28-Mar-2018 01:29:30 Instrument ID: CBNAMS18
Lims ID: STD01
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

22 N-Nitrosodi-n-propylamine, CAS: 621-64-7

Signal: 1

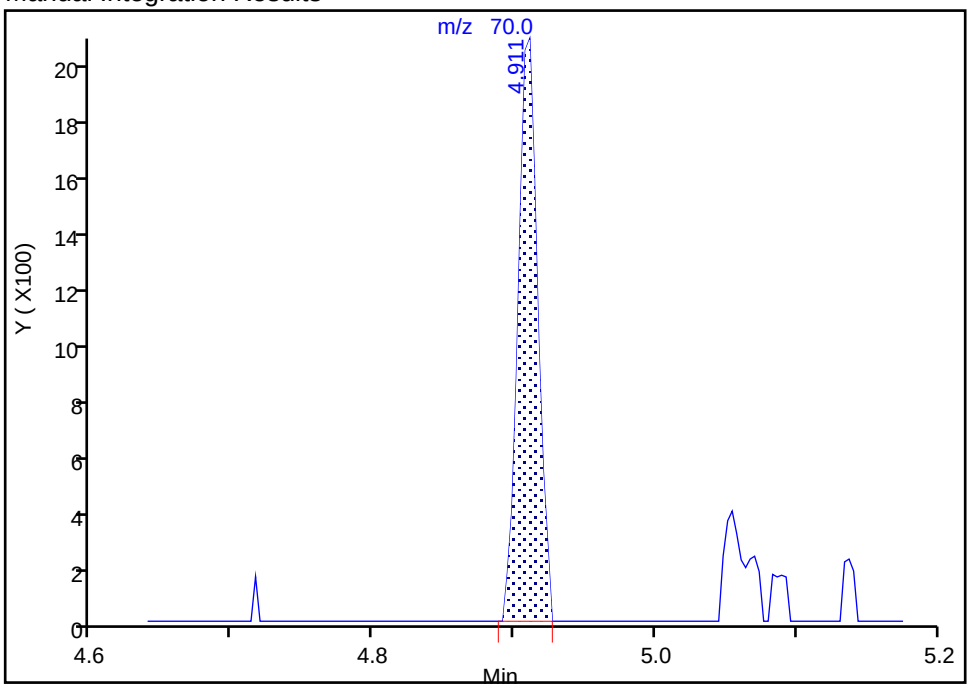
Not Detected
Expected RT: 4.91

Processing Integration Results



Manual Integration Results

RT: 4.91
Area: 1982
Amount: 0.104332
Amount Units: ug/ml



Reviewer: johnstonm1, 28-Mar-2018 08:24:46
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

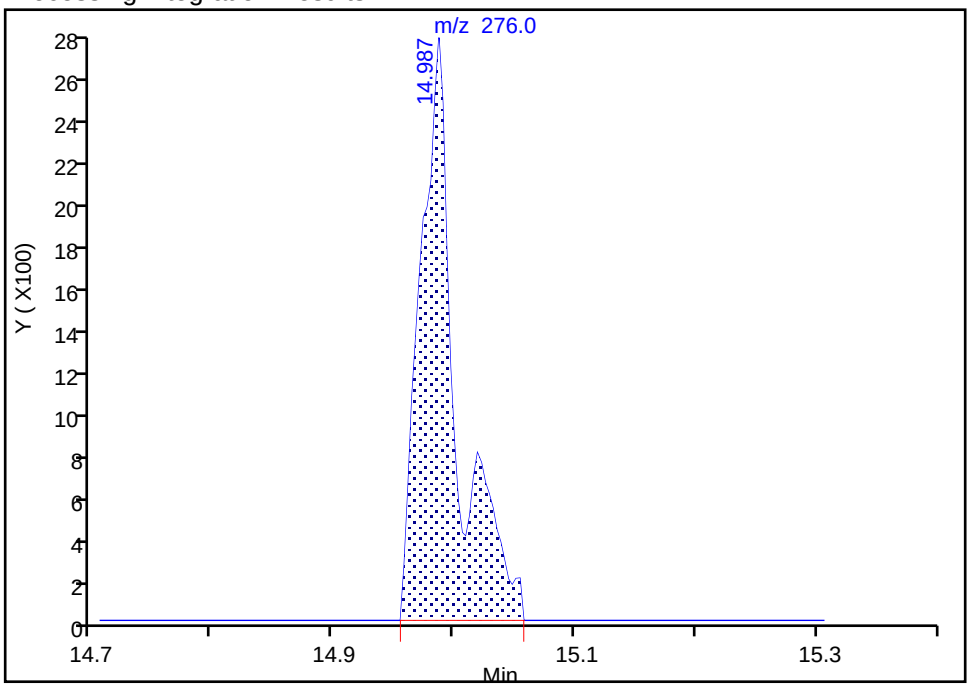
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00974.D
Injection Date: 28-Mar-2018 01:29:30 Instrument ID: CBNAMS18
Lims ID: STD01
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

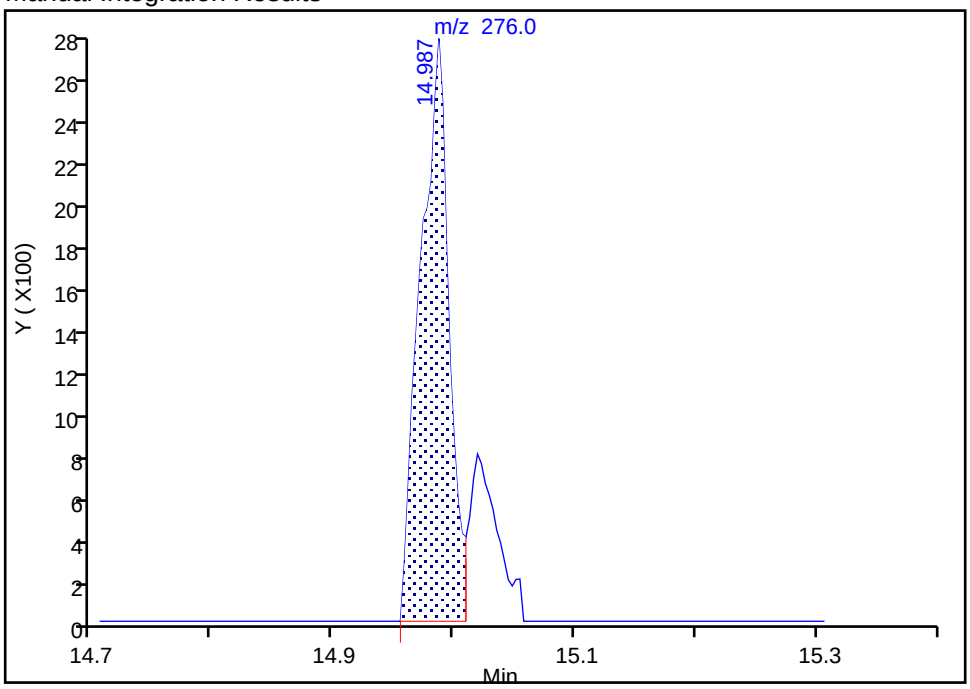
Processing Integration Results

RT: 14.99
Area: 5795
Amount: 0.157284
Amount Units: ug/ml



Manual Integration Results

RT: 14.99
Area: 4573
Amount: 0.094156
Amount Units: ug/ml



Reviewer: croccom, 28-Mar-2018 09:51:19
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID (1): CCVIS 460-511320/2 Instrument ID (1): CBNAMS18

GC Column (1): Rtxi-5Sil MS ID: 0.25(mm) Date Analyzed (1): 04/16/2018 06:25

ANALYTE	RT	RESOLUTION (%)
Pyridine	1.98	100.0
2-Fluorophenol (Surr)	3.08	100.0
Phenol-d5 (Surr)	3.97	100.0
1,4-Dichlorobenzene	4.28	100.0
2-Methylphenol	4.54	100.0
3 & 4 Methylphenol	4.69	100.0
Hexachloroethane	4.75	100.0
Nitrobenzene-d5 (Surr)	4.79	100.0
Nitrobenzene	4.81	100.0
Hexachlorobutadiene	5.62	100.0
2,4,6-Trichlorophenol	6.44	100.0
2,4,5-Trichlorophenol	6.49	100.0
2-Fluorobiphenyl	6.51	100.0
2,4-Dinitrotoluene	7.33	100.0
2,4,6-Tribromophenol (Surr)	7.89	100.0
Hexachlorobenzene	8.18	100.0
Pentachlorophenol	8.38	100.0
Terphenyl-d14 (Surr)	10.05	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511320/2 Calibration Date: 04/16/2018 06:25

Instrument ID: CBNAMS18 Calib Start Date: 03/27/2018 22:48

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/28/2018 01:29

Lab File ID: P01548.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4563	0.4444	0.0100	9740	10000	-2.6	20.0
N-Nitrosodimethylamine	Ave	0.7529	0.6715		8920	10000	-10.8	20.0
Pyridine	Ave	1.270	1.228		19300	20000	-3.3	20.0
Aniline	Ave	2.017	1.855		9200	10000	-8.0	20.0
Phenol	Ave	1.613	1.629	0.8000	10100	10000	1.0	20.0
Bis(2-chloroethyl)ether	Ave	1.286	1.204	0.7000	9360	10000	-6.4	20.0
2-Chlorophenol	Ave	1.376	1.363	0.8000	9900	10000	-1.0	20.0
n-Decane	Ave	1.365	1.299	0.0100	9520	10000	-4.8	20.0
1,3-Dichlorobenzene	Ave	1.579	1.569		9940	10000	-0.6	20.0
1,4-Dichlorobenzene	Ave	1.585	1.556		9810	10000	-1.9	20.0
Benzyl alcohol	Ave	0.8580	0.7709	0.0100	8980	10000	-10.2	20.0
1,2-Dichlorobenzene	Ave	1.497	1.480		9880	10000	-1.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.809	1.568	0.0100	8670	10000	-13.3	20.0
2-Methylphenol	Ave	1.201	1.076	0.7000	8960	10000	-10.4	20.0
Acetophenone	Ave	1.912	1.707	0.0100	8930	10000	-10.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.999	0.8657	0.5000	8660	10000	-13.4	20.0
3 & 4 Methylphenol	Ave	1.357	1.155		8510	10000	-14.9	20.0
4-Methylphenol	Ave	1.356	1.136	0.6000	8380	10000	-16.2	20.0
Hexachloroethane	Ave	0.5972	0.5817	0.3000	9740	10000	-2.6	20.0
Nitrobenzene	Ave	0.6541	0.6050	0.2000	9250	10000	-7.5	20.0
n,n'-Dimethylaniline	Ave	2.136	2.059	0.0100	9640	10000	-3.6	20.0
Isophorone	Ave	0.5875	0.5528	0.4000	9410	10000	-5.9	20.0
2-Nitrophenol	Ave	0.1723	0.1840	0.1000	10700	10000	6.8	20.0
2,4-Dimethylphenol	Ave	0.2891	0.2901	0.2000	10000	10000	0.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.3856	0.3674	0.3000	9530	10000	-4.7	20.0
Benzoic acid	Ave	0.1486	0.1887		12700	10000	27.0*	20.0
2,4-Dichlorophenol	Ave	0.2713	0.2746	0.2000	10100	10000	1.2	20.0
1,2,4-Trichlorobenzene	Ave	0.3132	0.3285		10500	10000	4.9	20.0
Naphthalene	Ave	0.9835	0.9779	0.7000	9940	10000	-0.6	20.0
4-Chloroaniline	Ave	0.4091	0.3851	0.0100	9410	10000	-5.9	20.0
Hexachlorobutadiene	Ave	0.1880	0.1886	0.0100	10000	10000	0.3	20.0
4-Chloro-3-methylphenol	Ave	0.2699	0.2556		9470	10000	-5.3	20.0
2-Methylnaphthalene	Ave	0.6933	0.6550	0.4000	9450	10000	-5.5	20.0
1-Methylnaphthalene	Ave	0.6538	0.6195	0.0100	9470	10000	-5.3	20.0
Hexachlorocyclopentadiene	Ave	0.4837	0.5292	0.0500	10900	10000	9.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6747	0.7127	0.0100	10600	10000	5.6	20.0
2-tertbutyl-4-methylphenol	Ave	0.4373	0.4219	0.0100	9650	10000	-3.5	20.0
2,4,6-Trichlorophenol	Ave	0.4214	0.4506	0.2000	10700	10000	6.9	20.0
2,4,5-Trichlorophenol	Ave	0.4539	0.4811	0.2000	10600	10000	6.0	20.0
1,1'-Biphenyl	Ave	1.748	1.777	0.0100	10200	10000	1.7	20.0
2-Chloronaphthalene	Ave	1.324	1.373	0.8000	10400	10000	3.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511320/2 Calibration Date: 04/16/2018 06:25

Instrument ID: CBNAMS18 Calib Start Date: 03/27/2018 22:48

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/28/2018 01:29

Lab File ID: P01548.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8818	0.9418	0.0100	10700	10000	6.8	20.0
2-Nitroaniline	Ave	0.4309	0.3485	0.0100	8090	10000	-19.1	20.0
1,3-Dimethylnaphthalene	Ave	1.082	1.139	0.0100	10500	10000	5.3	20.0
Dimethyl phthalate	Ave	1.498	1.501	0.0100	10000	10000	0.2	20.0
Coumarin	Ave	0.2172	0.2054	0.0100	9450	10000	-5.5	20.0
2,6-Dinitrotoluene	Ave	0.3218	0.3416	0.2000	10600	10000	6.1	20.0
Acenaphthylene	Ave	1.971	1.997	0.9000	10100	10000	1.4	20.0
3-Nitroaniline	Ave	0.3603	0.3582	0.0100	9940	10000	-0.6	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.283	1.279	0.0100	9970	10000	-0.3	20.0
Acenaphthene	Ave	1.366	1.218	0.9000	8920	10000	-10.8	20.0
2,4-Dinitrophenol	Ave	0.1892	0.2230	0.0100	23600	20000	17.9	20.0
2,4-Dinitrotoluene	Ave	0.4335	0.4379	0.2000	10100	10000	1.0	20.0
4-Nitrophenol	Ave	0.2505	0.2452	0.0100	19600	20000	-2.1	20.0
Dibenzofuran	Ave	1.877	1.833	0.8000	9770	10000	-2.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3833	0.3954	0.0100	10300	10000	3.2	20.0
Diethyl phthalate	Ave	1.538	1.540	0.0100	10000	10000	0.1	20.0
Fluorene	Ave	1.463	1.455	0.9000	9940	10000	-0.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.7315	0.7280	0.4000	9950	10000	-0.5	20.0
4-Nitroaniline	Ave	0.3552	0.3433	0.0100	9660	10000	-3.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1149	0.1311	0.0100	22800	20000	14.1	20.0
N-Nitrosodiphenylamine	Ave	0.5783	0.5602	0.0100	9690	10000	-3.1	20.0
1,2-Diphenylhydrazine	Ave	0.7489	0.7075	0.0100	9450	10000	-5.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2441	0.2402	0.1000	9840	10000	-1.6	20.0
Hexachlorobenzene	Ave	0.2653	0.2653	0.1000	10000	10000	0.0	20.0
Pentachloronitrobenzene	Ave	0.1096	0.1140	0.0100	10400	10000	4.0	20.0
Pentachlorophenol	Ave	0.1486	0.1458	0.0500	19600	20000	-1.9	20.0
n-Octadecane	Ave	0.5687	0.5062	0.0100	8900	10000	-11.0	20.0
Phenanthrene	Ave	1.144	1.120	0.7000	9790	10000	-2.1	20.0
Anthracene	Ave	1.166	1.164	0.7000	9990	10000	-0.1	20.0
Carbazole	Ave	0.9616	0.9595	0.0100	9980	10000	-0.2	20.0
Di-n-butyl phthalate	Ave	1.252	1.265	0.0100	10100	10000	1.0	20.0
Fluoranthene	Ave	1.102	1.153	0.6000	10500	10000	4.7	20.0
Benzidine	Lin2		0.4713		7910	10000	-20.9*	20.0
Pyrene	Ave	1.500	1.341	0.6000	8940	10000	-10.6	20.0
Bisphenol-A	Ave	0.5706	0.5595		9810	10000	-1.9	20.0
Butyl benzyl phthalate	Ave	0.5818	0.5783	0.0100	9940	10000	-0.6	20.0
2,3,7,8-TCDD	Ave	0.1632	0.1931	0.0100	118	100	18.3	20.0
Carbamazepine	Qua		0.4921	0.0100	10900	10000	8.5	20.0
3,3'-Dichlorobenzidine	Ave	0.4112	0.4258	0.0100	10400	10000	3.6	20.0
Benzo[a]anthracene	Ave	1.223	1.126	0.8000	9210	10000	-7.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511320/2 Calibration Date: 04/16/2018 06:25

Instrument ID: CBNAMS18 Calib Start Date: 03/27/2018 22:48

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/28/2018 01:29

Lab File ID: P01548.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.121	1.065	0.7000	9500	10000	-5.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7788	0.8176	0.0100	10500	10000	5.0	20.0
Di-n-octyl phthalate	Ave	1.314	1.509	0.0100	11500	10000	14.9	20.0
Benzo[b]fluoranthene	Ave	1.201	1.250	0.7000	10400	10000	4.1	20.0
Benzo[k]fluoranthene	Ave	1.240	1.328	0.7000	10700	10000	7.1	20.0
Benzo[a]pyrene	Ave	1.112	1.216	0.7000	10900	10000	9.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.025	1.165	0.5000	11400	10000	13.7	20.0
Dibenz(a,h)anthracene	Ave	1.049	1.166	0.4000	11100	10000	11.2	20.0
Benzo[g,h,i]perylene	Ave	1.103	1.194	0.5000	10800	10000	8.2	20.0
2-Fluorophenol (Surr)	Ave	1.319	1.307		9900	10000	-1.0	20.0
Phenol-d5 (Surr)	Ave	1.587	1.507		9500	10000	-5.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3542	0.3381		9550	10000	-4.5	20.0
2-Fluorobiphenyl	Ave	1.636	1.636		10000	10000	0.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2365	0.2651		11200	10000	12.1	20.0
Terphenyl-d14 (Surr)	Ave	1.187	0.9736		8200	10000	-18.0	20.0

Report Date: 16-Apr-2018 15:43:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01548.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Apr-2018 06:25:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-002
Operator ID: Instrument ID: CBNAMS18
Sublist: chrom-8270LVI_18*sub1

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 15:43:10 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 15:43:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.737	1.737	0.000	96	116369	10.0	9.74	
2 N-Nitrosodimethylamine	74	1.948	1.948	0.000	90	175823	10.0	8.92	
3 Pyridine	79	1.977	1.977	0.000	90	643324	20.0	19.3	
$ 4 2-Fluorophenol	112	3.078	3.078	0.000	97	342109	10.0	9.90	
8 Aniline	93	3.959	3.959	0.000	99	485729	10.0	9.20	
$ 6 Phenol-d5	99	3.968	3.968	0.000	98	394564	10.0	9.50	
7 Phenol	94	3.981	3.981	0.000	99	426658	10.0	10.1	a
9 Bis(2-chloroethyl)ether	93	4.010	4.010	0.000	95	315225	10.0	9.36	
10 Benzonitrile	103	4.026	4.026	0.000	98	641787	NC	NC	
11 2-Chlorophenol	128	4.087	4.087	0.000	97	356797	10.0	9.90	
12 n-Decane	43	4.112	4.112	0.000	90	340169	10.0	9.52	
13 1,3-Dichlorobenzene	146	4.211	4.211	0.000	96	410895	10.0	9.94	
* 14 1,4-Dichlorobenzene-d4	152	4.265	4.265	0.000	95	209469	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.281	4.281	0.000	95	407304	10.0	9.81	
16 Benzyl alcohol	108	4.409	4.409	0.000	93	201861	10.0	8.98	
17 1,2-Dichlorobenzene	146	4.425	4.425	0.000	96	387399	10.0	9.88	
19 2,2'-oxybis[1-chloropropan	45	4.524	4.524	0.000	93	410584	10.0	8.67	a
18 2-Methylphenol	108	4.543	4.543	0.000	89	281833	10.0	8.96	
20 N-Methylaniline	106	4.646	4.646	0.000	98	481392	10.0	9.15	
21 Acetophenone	105	4.649	4.649	0.000	91	446826	10.0	8.93	
22 N-Nitrosodi-n-propylamine	70	4.655	4.655	0.000	89	226682	10.0	8.66	
23 3 & 4 Methylphenol	108	4.694	4.694	0.000	62	302542	10.0	8.51	
24 4-Methylphenol	108	4.694	4.694	0.000	96	297369	10.0	8.38	
25 Hexachloroethane	117	4.748	4.748	0.000	95	152307	10.0	9.74	
$ 27 Nitrobenzene-d5	82	4.793	4.793	0.000	88	337173	10.0	9.55	
28 Nitrobenzene	123	4.812	4.812	0.000	92	158421	10.0	9.25	
29 n,n'-Dimethylaniline	120	4.815	4.815	0.000	94	539053	10.0	9.64	
30 Isophorone	82	5.039	5.039	0.000	99	551263	10.0	9.41	
32 2-Nitrophenol	139	5.115	5.115	0.000	95	183473	10.0	10.7	
33 2,4-Dimethylphenol	122	5.189	5.189	0.000	92	289284	10.0	10.0	
34 Bis(2-chloroethoxy)methane	93	5.250	5.250	0.000	98	366400	10.0	9.53	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.313	5.313	0.000	87	188145	10.0	12.7	
36 2,4-Dichlorophenol	162	5.368	5.368	0.000	96	273883	10.0	10.1	
37 1,2,4-Trichlorobenzene	180	5.425	5.425	0.000	94	327577	10.0	10.5	
* 38 Naphthalene-d8	136	5.476	5.476	0.000	99	797812	8.00	8.00	
39 Naphthalene	128	5.496	5.496	0.000	99	975213	10.0	9.94	
40 4-Chloroaniline	127	5.563	5.563	0.000	97	384064	10.0	9.41	
41 Hexachlorobutadiene	225	5.624	5.624	0.000	96	188118	10.0	10.0	
43 4-Chloro-3-methylphenol	107	6.055	6.055	0.000	96	254923	10.0	9.47	
44 2-Methylnaphthalene	142	6.154	6.154	0.000	84	653168	10.0	9.45	
45 1-Methylnaphthalene	142	6.250	6.250	0.000	92	617772	10.0	9.47	
46 Hexachlorocyclopentadiene	237	6.310	6.310	0.000	97	224311	10.0	10.9	
47 1,2,4,5-Tetrachlorobenzene	216	6.317	6.317	0.000	97	302076	10.0	10.6	
48 2-tertbutyl-4-methylphenol	149	6.371	6.371	0.000	92	420710	10.0	9.65	
49 2,4,6-Trichlorophenol	196	6.442	6.442	0.000	91	190967	10.0	10.7	
50 2,4,5-Trichlorophenol	196	6.487	6.487	0.000	98	203908	10.0	10.6	
$ 51 2-Fluorobiphenyl	172	6.506	6.506	0.000	97	693599	10.0	10.0	
52 1,1'-Biphenyl	154	6.598	6.598	0.000	95	753292	10.0	10.2	
53 2-Chloronaphthalene	162	6.614	6.614	0.000	98	581829	10.0	10.4	
54 Phenyl ether	170	6.701	6.701	0.000	84	399204	10.0	10.7	
55 2-Nitroaniline	65	6.726	6.726	0.000	94	147725	10.0	8.09	
57 1,3-Dimethylnaphthalene	156	6.826	6.826	0.000	91	482695	10.0	10.5	
59 Dimethyl phthalate	163	6.899	6.899	0.000	99	636325	10.0	10.0	
60 Coumarin	146	6.912	6.912	0.000	80	204789	10.0	9.45	
61 2,6-Dinitrotoluene	165	6.950	6.950	0.000	96	144769	10.0	10.6	
62 Acenaphthylene	152	7.008	7.008	0.000	97	846603	10.0	10.1	
63 3-Nitroaniline	138	7.117	7.117	0.000	96	151805	10.0	9.94	
* 64 Acenaphthene-d10	164	7.142	7.142	0.000	98	339084	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.171	7.171	0.000	96	542088	10.0	9.97	
66 Acenaphthene	154	7.171	7.171	0.000	95	516253	10.0	8.92	
67 2,4-Dinitrophenol	184	7.210	7.210	0.000	96	189059	20.0	23.6	
69 2,4-Dinitrotoluene	165	7.328	7.328	0.000	95	185596	10.0	10.1	
68 4-Nitrophenol	65	7.331	7.331	0.000	84	207889	20.0	19.6	
70 Dibenzofuran	168	7.334	7.334	0.000	95	777000	10.0	9.77	
72 2,3,4,6-Tetrachlorophenol	232	7.465	7.465	0.000	94	167600	10.0	10.3	
73 Diethyl phthalate	149	7.565	7.565	0.000	98	652884	10.0	10.0	
75 Fluorene	166	7.657	7.657	0.000	94	616687	10.0	9.94	
74 4-Chlorophenyl phenyl ethe	204	7.661	7.661	0.000	88	308558	10.0	9.95	
76 4-Nitroaniline	138	7.699	7.699	0.000	87	145492	10.0	9.66	
77 4,6-Dinitro-2-methylphenol	198	7.718	7.718	0.000	89	209066	20.0	22.8	
78 N-Nitrosodiphenylamine	169	7.779	7.779	0.000	99	446688	10.0	9.69	
79 1,2-Diphenylhydrazine	77	7.811	7.811	0.000	99	564188	10.0	9.45	
$ 80 2,4,6-Tribromophenol	330	7.891	7.891	0.000	92	112369	10.0	11.2	
81 4-Bromophenyl phenyl ether	248	8.121	8.121	0.000	93	191503	10.0	9.84	
82 Hexachlorobenzene	284	8.179	8.179	0.000	97	211543	10.0	10.0	
84 Pentachlorophenol	266	8.380	8.380	0.000	92	232527	20.0	19.6	
85 Pentachloronitrobenzene	237	8.380	8.380	0.000	87	90904	10.0	10.4	
86 n-Octadecane	57	8.454	8.454	0.000	92	403625	10.0	8.90	
* 87 Phenanthrene-d10	188	8.540	8.540	0.000	98	637920	8.00	8.00	
88 Phenanthrene	178	8.563	8.563	0.000	97	893360	10.0	9.79	
89 Anthracene	178	8.611	8.611	0.000	99	928106	10.0	9.99	
90 Carbazole	167	8.774	8.774	0.000	96	765074	10.0	9.98	
91 Di-n-butyl phthalate	149	9.106	9.106	0.000	99	1008468	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.681	9.681	0.000	98	919777	10.0	10.5	
93 Benzidine	184	9.822	9.822	0.000	99	375803	10.0	7.91	
94 Pyrene	202	9.895	9.895	0.000	97	916804	10.0	8.94	
95 Bisphenol-A	213	9.972	9.972	0.000	98	382554	10.0	9.81	
$ 96 Terphenyl-d14	244	10.049	10.049	0.000	100	665679	10.0	8.20	
97 Butyl benzyl phthalate	149	10.544	10.544	0.000	95	395398	10.0	9.94	
98 2,3,7,8-TCDD	320	10.627	10.627	0.000	89	1320	0.1000	0.1183	
99 Carbamazepine	193	10.653	10.653	0.000	93	336435	10.0	10.9	
100 3,3'-Dichlorobenzidine	252	11.107	11.107	0.000	99	291153	10.0	10.4	
101 Benzo[a]anthracene	228	11.119	11.119	0.000	99	769854	10.0	9.21	
* 102 Chrysene-d12	240	11.132	11.132	0.000	99	546967	8.00	8.00	
104 Chrysene	228	11.161	11.161	0.000	98	727814	10.0	9.50	
103 Bis(2-ethylhexyl) phthalat	149	11.184	11.184	0.000	84	558985	10.0	10.5	
105 Di-n-octyl phthalate	149	11.986	11.986	0.000	96	898506	10.0	11.5	
106 Benzo[b]fluoranthene	252	12.443	12.443	0.000	99	743855	10.0	10.4	
107 Benzo[k]fluoranthene	252	12.481	12.481	0.000	99	790337	10.0	10.7	
108 Benzo[a]pyrene	252	12.878	12.878	0.000	97	723730	10.0	10.9	
* 109 Perylene-d12	264	12.958	12.958	0.000	97	476205	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.451	14.451	0.000	99	693598	10.0	11.4	M
111 Dibenz(a,h)anthracene	278	14.493	14.493	0.000	98	694014	10.0	11.1	
112 Benzo[g,h,i]perylene	276	14.855	14.855	0.000	97	710471	10.0	10.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SM_BNAL6_00050 Amount Added: 1.00 Units: mL

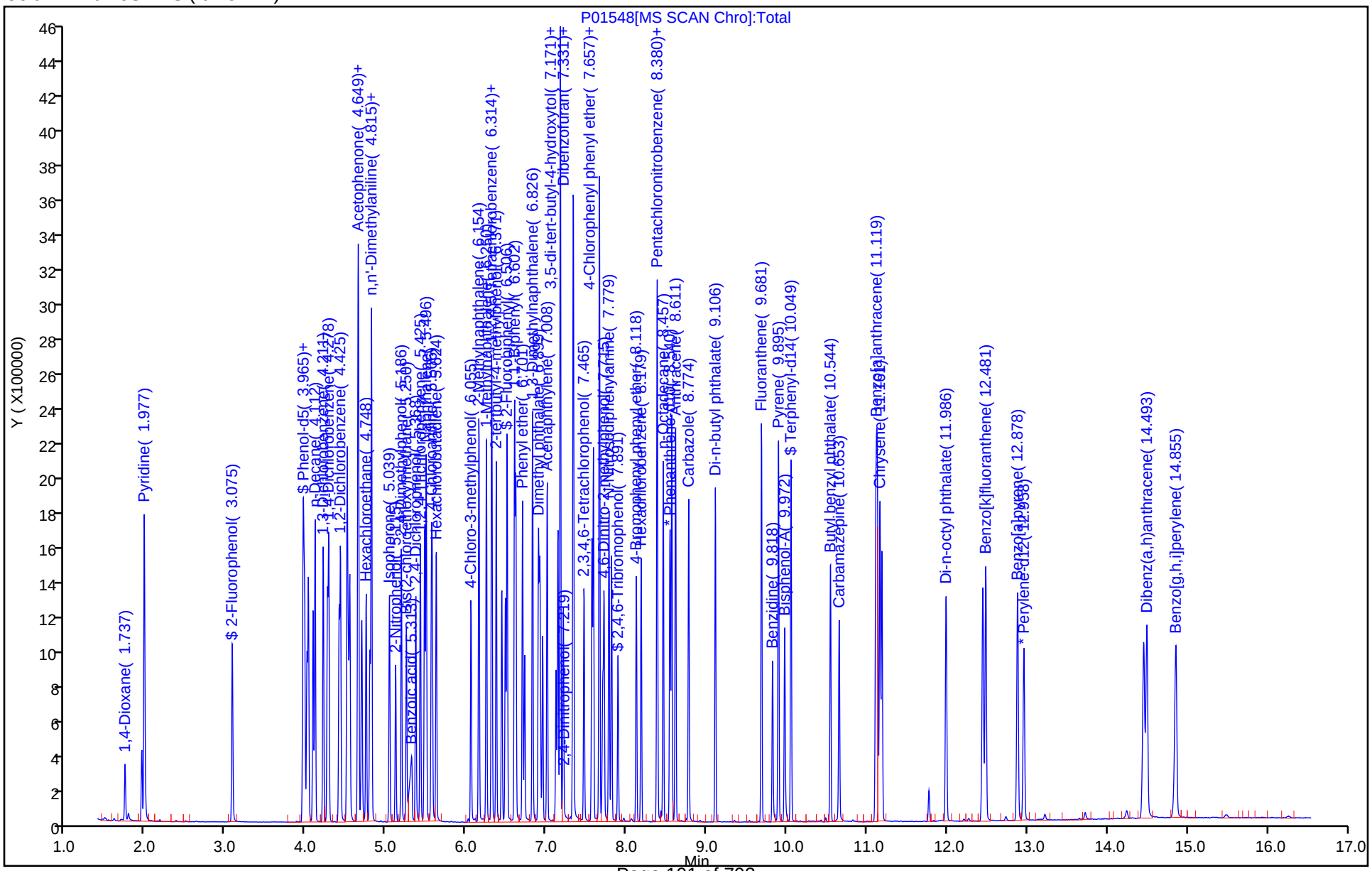
Report Date: 16-Apr-2018 15:43:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01548.D

Injection Date:	16-Apr-2018 06:25:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

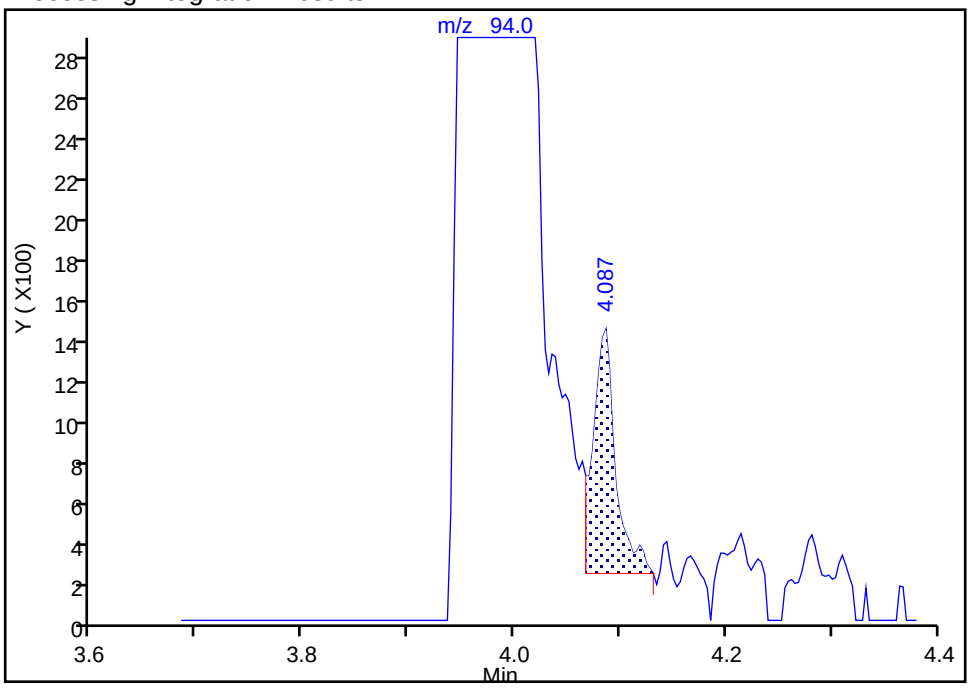
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01548.D
Injection Date: 16-Apr-2018 06:25:30 Instrument ID: CBNAMS18
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

7 Phenol, CAS: 108-95-2

Signal: 1

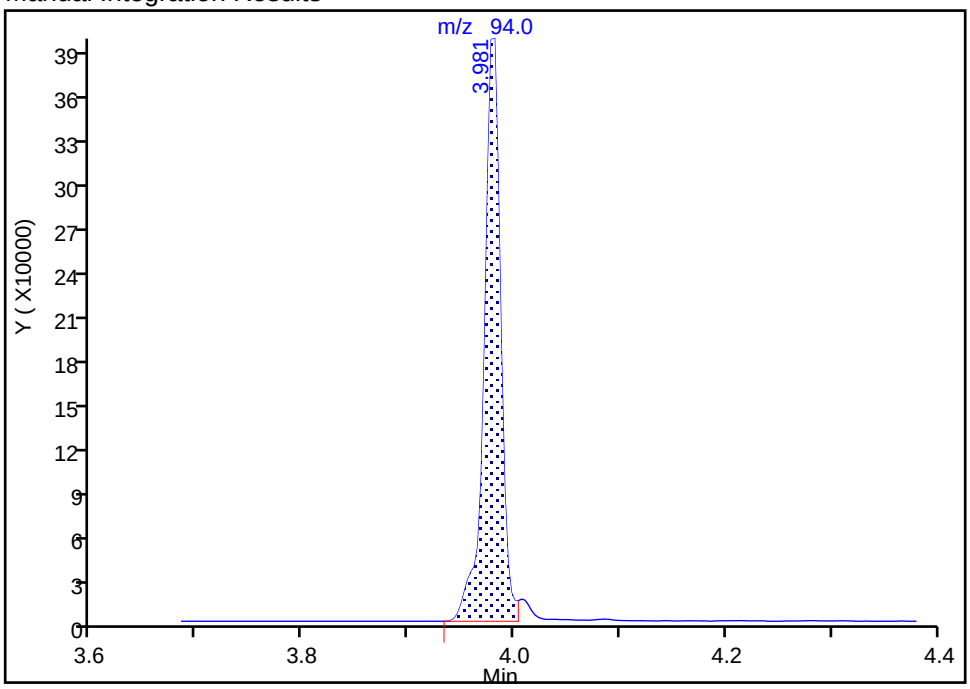
Processing Integration Results

RT: 4.09
Area: 1777
Amount: 0.042071
Amount Units: ug/ml



Manual Integration Results

RT: 3.98
Area: 426658
Amount: 10.101309
Amount Units: ug/ml



Reviewer: manlangitf, 16-Apr-2018 06:47:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

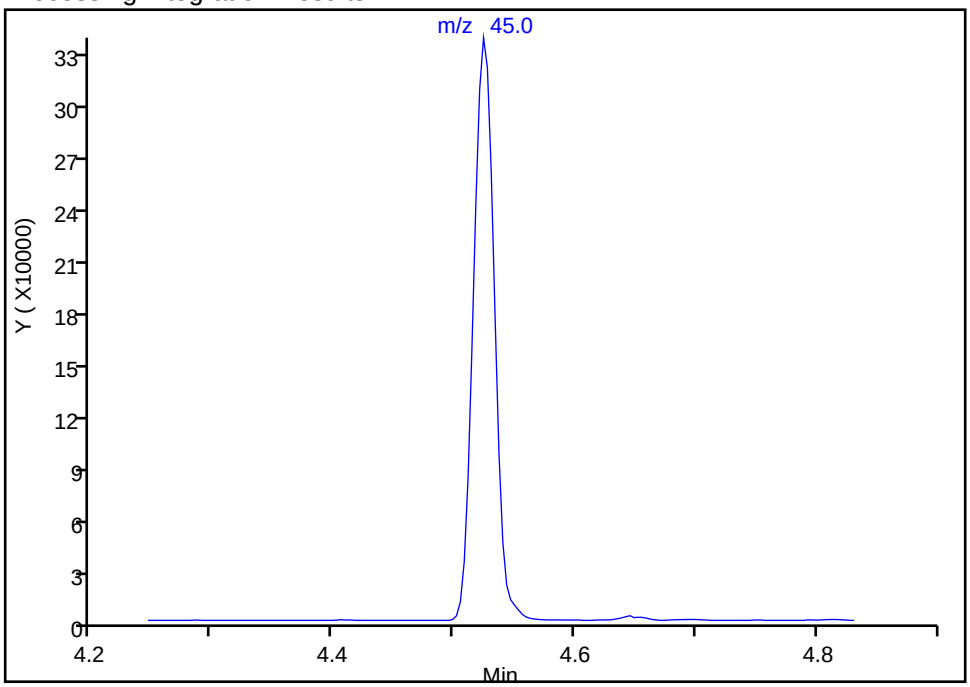
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01548.D
Injection Date: 16-Apr-2018 06:25:30 Instrument ID: CBNAMS18
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

19 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Signal: 1

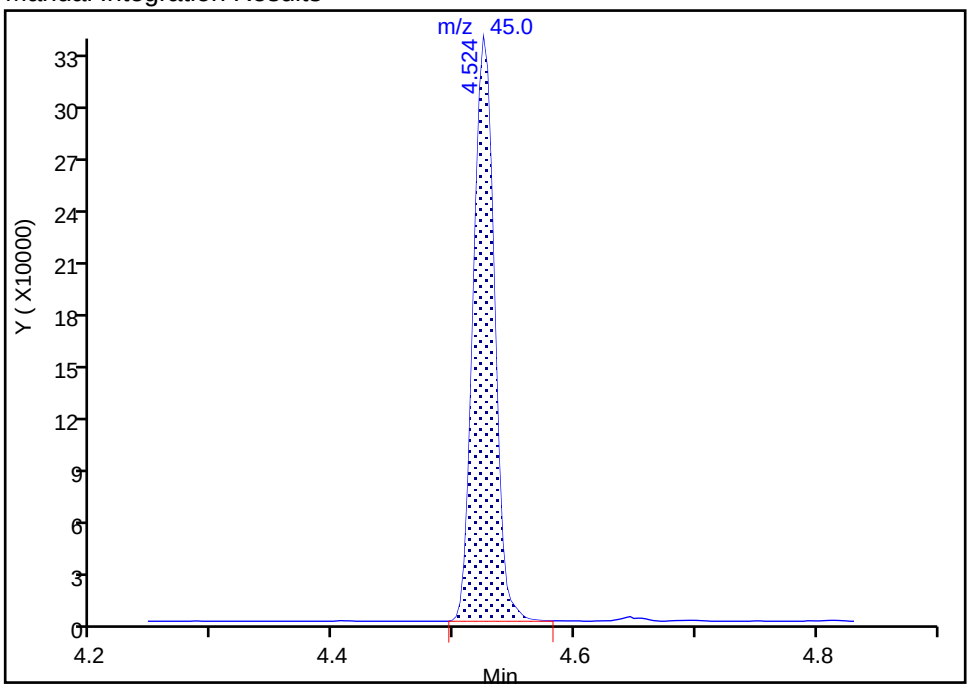
Not Detected
Expected RT: 4.52

Processing Integration Results



Manual Integration Results

RT: 4.52
Area: 410584
Amount: 8.666950
Amount Units: ug/ml



Reviewer: manlangitf, 16-Apr-2018 06:47:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

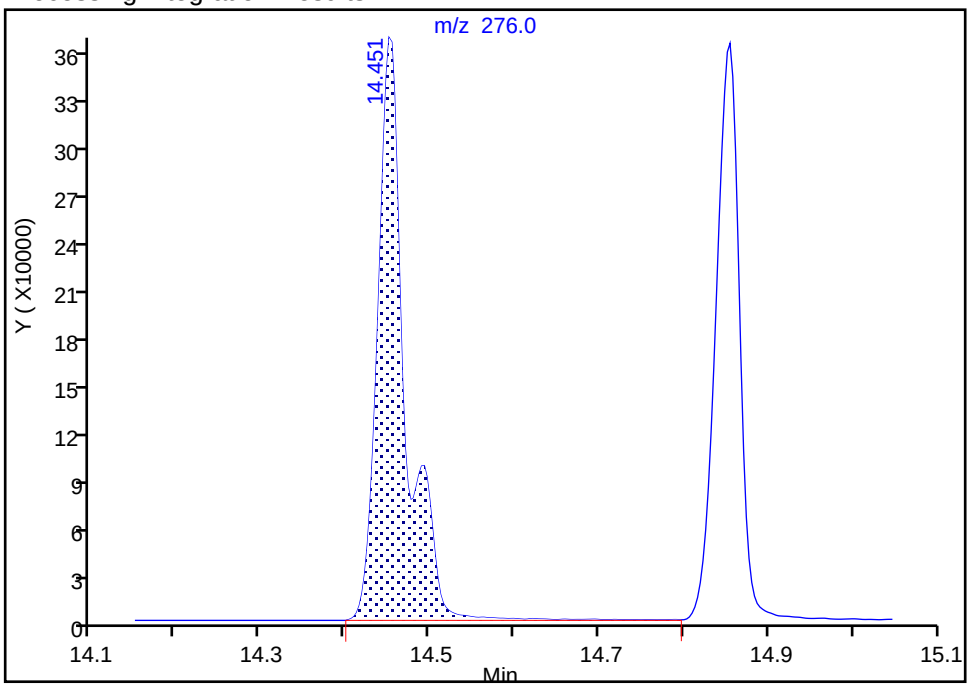
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01548.D
Injection Date: 16-Apr-2018 06:25:30 Instrument ID: CBNAMS18
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

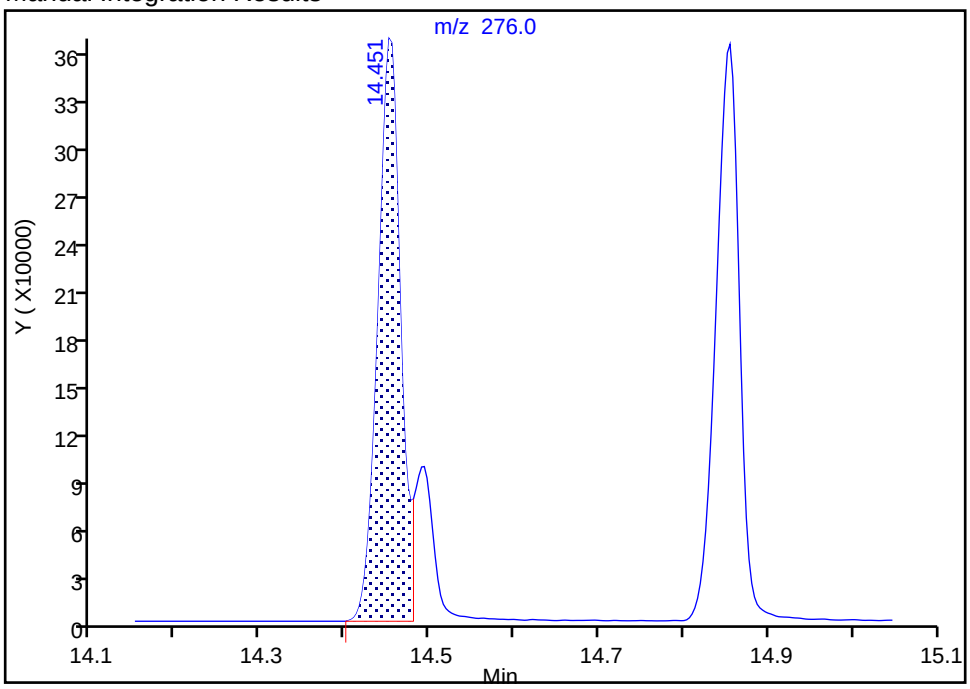
Processing Integration Results

RT: 14.45
Area: 845334
Amount: 13.852989
Amount Units: ug/ml



Manual Integration Results

RT: 14.45
Area: 693598
Amount: 11.366401
Amount Units: ug/ml



Reviewer: manlangitf, 16-Apr-2018 07:10:17
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Mar-2018 22:15:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0069380-001
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 02-Apr-2018 12:09:18 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	5.299	5.299	0.000	94	302788	NR	NR	
56 Benzidine_T	184	7.010	7.010	0.000	99	1897835	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.757	6.757	0.000	1	2042		NR	a
126 4,4'-DDD	235	7.643	7.643	0.000	73	12103		NR	a
127 4,4'-DDT	235	7.943	7.943	0.000	99	898601	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

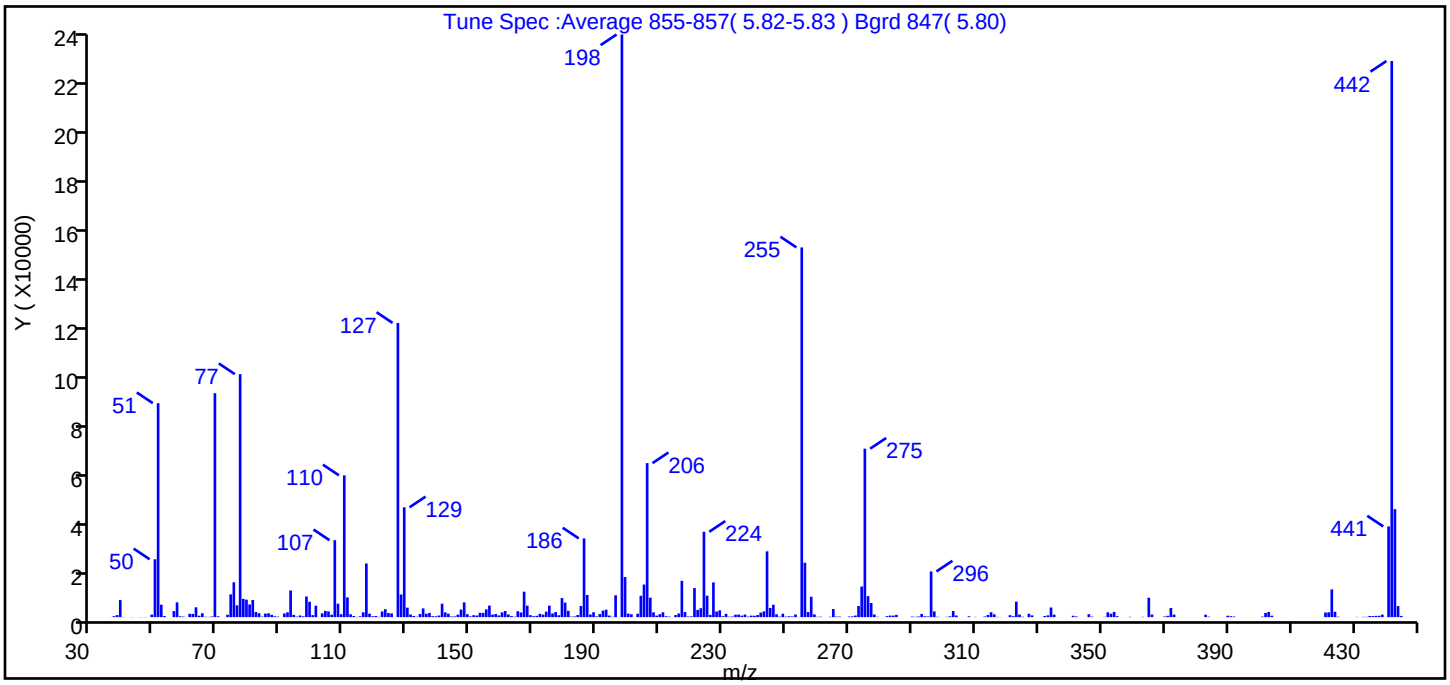
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D
Injection Date: 27-Mar-2018 22:15:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	36.7
68	<2% of mass 69	0.1 (0.3)
69	Present	38.4
70	<2% of mass 69	0.2 (0.4)
127	40-60% of mass 198	50.5
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	28.9
365	>1% of mass 198	3.3
441	Present but less than mass 443	15.6 (84.0)
442	>40% of mass 198	95.4
443	17-23% of mass 442	18.5 (19.4)

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D\8270LVI_18.rslt\spectra.d
Injection Date: 27-Mar-2018 22:15:30
Spectrum: Tune Spec :Average 855-857(5.82-5.83) Bgrd 847(5.80)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	37	120.00	463	199.00	16228	285.00	922
37.00	409	121.00	132	200.00	1456	290.00	228
38.00	815	122.00	2314	201.00	1150	291.00	135
39.00	6905	123.00	3196	203.00	1376	292.00	278
40.00	66	124.00	1655	204.00	8665	293.00	1306
42.00	29	125.00	1505	205.00	13202	294.00	340
43.00	68	127.00	119128	206.00	62360	295.00	282
45.00	54	128.00	9174	207.00	7883	296.00	18504
46.00	51	129.00	44472	208.00	1961	297.00	2327
47.00	65	130.00	3838	209.00	625	298.00	165
49.00	1010	131.00	1066	210.00	1200	301.00	140
50.00	23432	132.00	476	211.00	1950	302.00	333
51.00	86648	133.00	170	212.00	360	303.00	2475
52.00	5053	134.00	1285	213.00	233	304.00	652
53.00	447	135.00	3542	215.00	835	308.00	354
55.00	9	136.00	1392	216.00	1463	310.00	103
56.00	2452	137.00	1715	217.00	14691	313.00	265
57.00	5984	138.00	392	218.00	2062	314.00	882
58.00	340	139.00	353	219.00	277	315.00	1988
59.00	219	140.00	643	220.00	307	316.00	1134
60.00	20	141.00	5462	221.00	11767	317.00	115
61.00	1367	142.00	1923	222.00	2937	318.00	51
62.00	1300	143.00	1388	223.00	3609	321.00	790
63.00	3988	144.00	269	224.00	34576	322.00	384
64.00	560	145.00	287	225.00	8703	323.00	6267
65.00	1584	146.00	1009	226.00	913	324.00	1048
66.00	152	147.00	3053	227.00	14046	325.00	156
67.00	87	148.00	5984	228.00	2276	327.00	1372
68.00	265	149.00	1185	229.00	2757	328.00	714
69.00	90680	150.00	297	230.00	388	332.00	472
70.00	354	151.00	788	231.00	1340	333.00	722
71.00	28	152.00	666	232.00	190	334.00	3905
73.00	976	153.00	1744	233.00	254	335.00	993

Report Date: 02-Apr-2018 12:09:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D\8270LVI_18.rslt\spectra.d
Injection Date: 27-Mar-2018 22:15:30
Spectrum: Tune Spec :Average 855-857(5.82-5.83) Bgrd 847(5.80)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	9218	154.00	1734	234.00	988	341.00	565
75.00	14102	155.00	3126	235.00	1030	342.00	290
76.00	4778	156.00	4672	236.00	613	346.00	1182
77.00	98392	157.00	1011	237.00	1050	347.00	210
78.00	7421	158.00	1272	238.00	227	351.00	120
79.00	7091	159.00	709	239.00	619	352.00	1952
80.00	5133	160.00	1923	240.00	554	353.00	1380
81.00	6944	161.00	2496	241.00	853	354.00	2123
82.00	2060	162.00	1074	242.00	1844	355.00	381
83.00	1596	163.00	418	243.00	2354	359.00	137
84.00	215	164.00	191	244.00	26640	363.00	129
85.00	1452	165.00	2406	245.00	3708	365.00	7871
86.00	1560	166.00	1877	246.00	5019	366.00	1050
87.00	938	167.00	10301	247.00	1158	370.00	255
88.00	355	168.00	4644	248.00	206	371.00	534
89.00	209	169.00	814	249.00	1379	372.00	3701
91.00	1474	170.00	393	250.00	211	373.00	1016
92.00	1954	171.00	543	251.00	360	383.00	975
93.00	10792	172.00	1357	252.00	271	384.00	193
94.00	922	173.00	1046	253.00	1061	390.00	576
95.00	218	174.00	2220	255.00	149696	391.00	378
96.00	682	175.00	4651	256.00	22016	392.00	251
97.00	324	176.00	1477	257.00	2067	401.00	225
98.00	8365	177.00	2064	258.00	8252	402.00	1709
99.00	6234	178.00	763	259.00	1117	403.00	2120
100.00	809	179.00	7718	260.00	144	404.00	581
101.00	4606	180.00	5901	261.00	190	421.00	1872
103.00	1531	181.00	2547	264.00	161	422.00	1958
104.00	2534	182.00	215	265.00	3279	423.00	11227
105.00	2307	183.00	275	266.00	227	424.00	2192
106.00	965	184.00	859	267.00	227	425.00	188
107.00	31160	185.00	4499	270.00	255	431.00	106
108.00	5448	186.00	31872	271.00	311	433.00	119
109.00	1176	187.00	8983	272.00	659	434.00	116

Report Date: 02-Apr-2018 12:09:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D\8270LVI_18.rslt\spectra.d
Injection Date: 27-Mar-2018 22:15:30
Spectrum: Tune Spec :Average 855-857(5.82-5.83) Bgrd 847(5.80)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 308

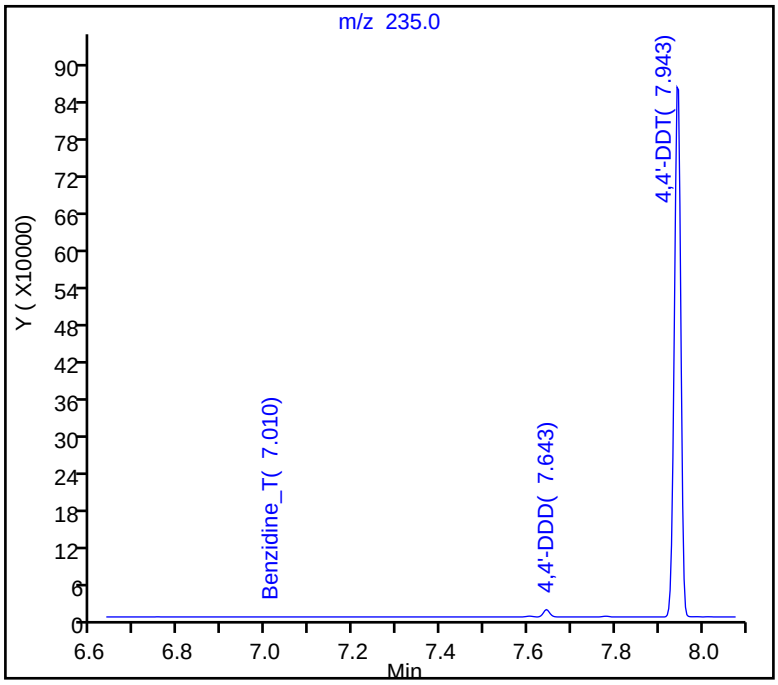
m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	57408	188.00	1068	273.00	4495	435.00	473
111.00	7993	189.00	1989	274.00	12403	436.00	424
112.00	1145	190.00	286	275.00	68216	437.00	518
113.00	466	191.00	1242	276.00	8498	438.00	556
114.00	104	192.00	2635	277.00	5736	439.00	1034
115.00	327	193.00	3028	278.00	1062	441.00	36712
116.00	1955	194.00	639	279.00	151	442.00	225152
117.00	21736	195.00	144	282.00	396	443.00	43712
118.00	1390	196.00	8856	283.00	648	444.00	4478
119.00	349	198.00	235904	284.00	611	445.00	494

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D
Injection Date: 27-Mar-2018 22:15:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 898601
126 4,4'-DDD, Area = 12103
125 4,4'-DDE, Area = 2042

%Breakdown: 1.55%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

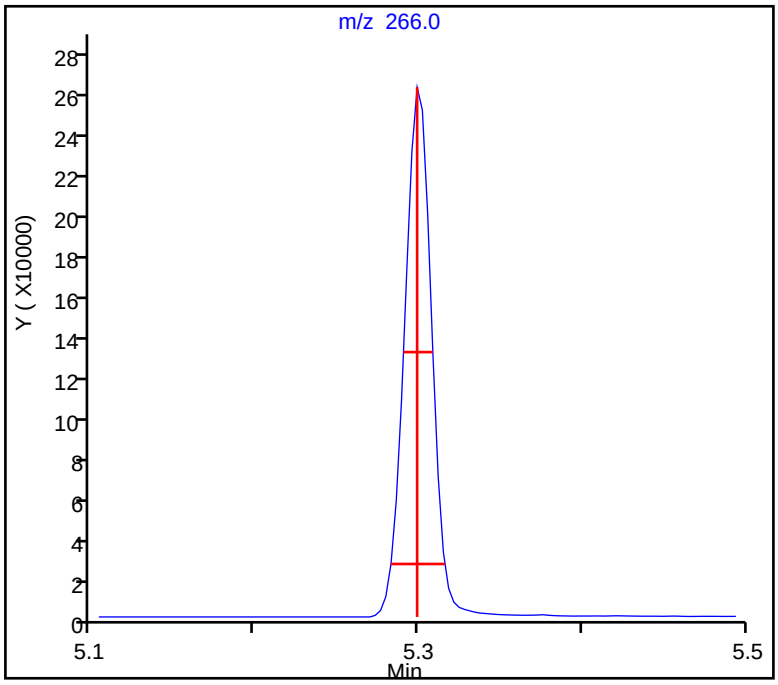
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D
Injection Date: 27-Mar-2018 22:15:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

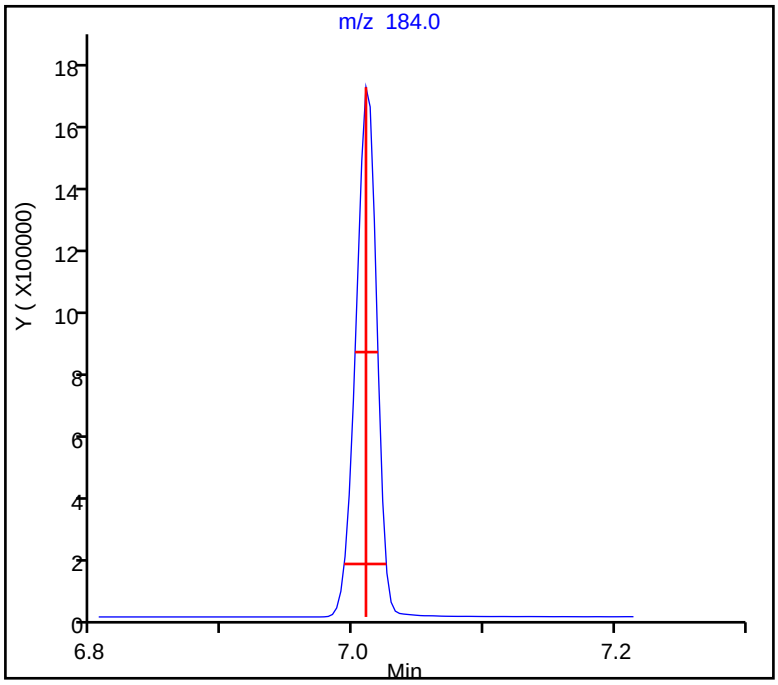
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00966.D
Injection Date: 27-Mar-2018 22:15:30 Instrument ID: CBNAMS18
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 16-Apr-2018 06:01:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-001
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 15:39:32 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 15:39:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	4.989	4.989	0.000	93	130471	NR	NR	
56 Benzidine_T	184	6.704	6.704	0.000	99	856471	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.918	6.918	0.000	84	626		NR	
126 4,4'-DDD	235	7.326	7.326	0.000	96	5370		NR	
127 4,4'-DDT	235	7.630	7.630	0.000	99	429768	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

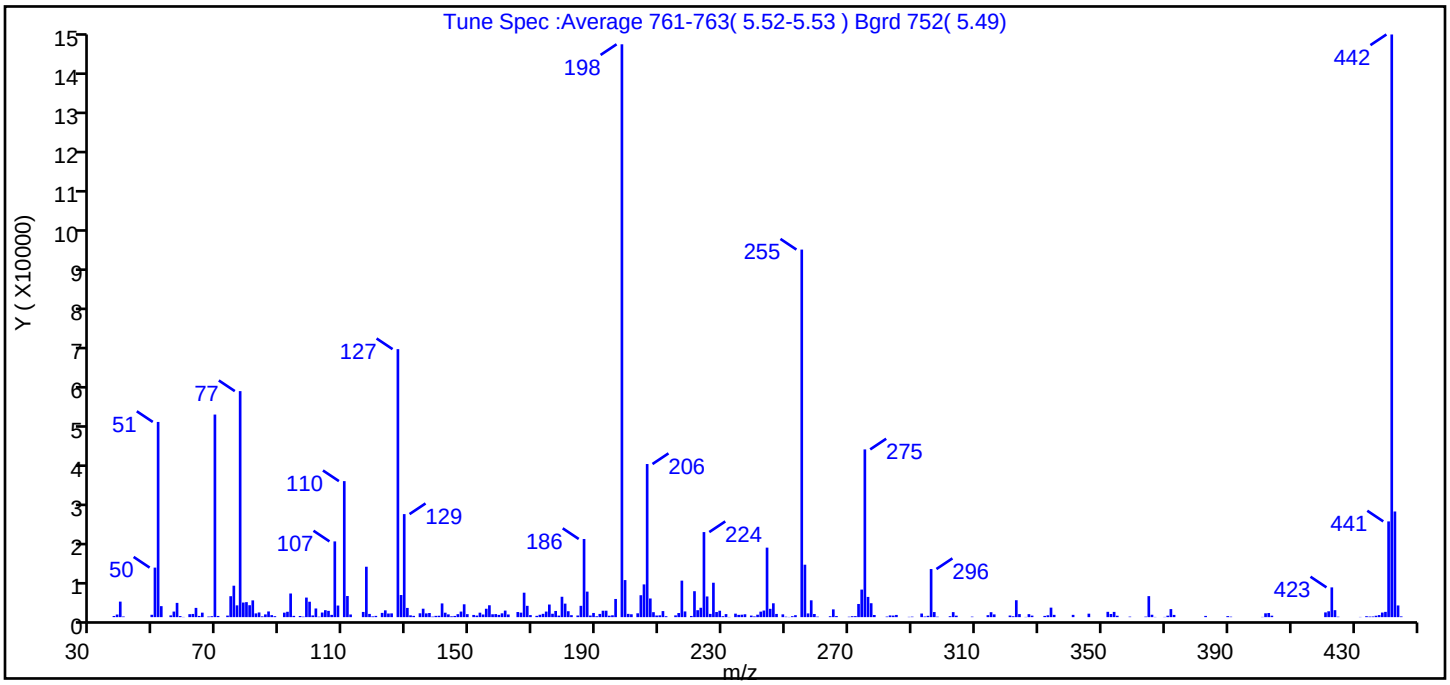
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D
Injection Date: 16-Apr-2018 06:01:30 Instrument ID: CBNAMS18
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	34.1
68	<2% of mass 69	0.2 (0.4)
69	Present	35.4
70	<2% of mass 69	0.2 (0.6)
127	40-60% of mass 198	46.8
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.5
275	10-30% of mass 198	29.3
365	>1% of mass 198	3.7
441	Present but less than mass 443	16.7 (90.6)
442	>40% of mass 198	101.7
443	17-23% of mass 442	18.4 (18.1)

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D\8270LVI_18.rslt\spectra.d
Injection Date: 16-Apr-2018 06:01:30
Spectrum: Tune Spec :Average 761-763(5.52-5.53) Bgrd 752(5.49)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	290	127.00	66440	201.00	711	285.00	546
38.00	646	128.00	5481	203.00	955	289.00	71
39.00	3850	129.00	25544	204.00	5433	290.00	121
40.00	161	130.00	2285	205.00	8118	293.00	897
49.00	583	131.00	448	206.00	37960	294.00	148
50.00	12279	132.00	315	207.00	4625	295.00	333
51.00	48392	134.00	955	208.00	1231	296.00	11930
52.00	2725	135.00	2092	209.00	405	297.00	1263
55.00	435	136.00	931	210.00	450	298.00	115
56.00	1383	137.00	1026	211.00	1501	302.00	227
57.00	3534	138.00	136	212.00	227	303.00	1247
58.00	260	139.00	319	215.00	432	304.00	363
59.00	50	140.00	346	216.00	1021	309.00	126
61.00	734	141.00	3402	217.00	9051	314.00	490
62.00	791	142.00	1100	218.00	1415	315.00	1229
63.00	2295	143.00	685	220.00	296	316.00	678
64.00	298	144.00	210	221.00	6430	321.00	396
65.00	1111	145.00	299	222.00	1724	322.00	215
67.00	145	146.00	737	223.00	2323	323.00	4192
68.00	225	147.00	1381	224.00	21088	324.00	756
69.00	50224	148.00	3188	225.00	5127	326.00	54
70.00	297	149.00	739	226.00	802	327.00	743
73.00	385	151.00	547	227.00	8531	328.00	375
74.00	5192	152.00	389	228.00	1267	332.00	307
75.00	7795	153.00	1105	229.00	1588	333.00	461
76.00	2921	154.00	657	230.00	232	334.00	2359
77.00	56032	155.00	2081	231.00	752	335.00	565
78.00	3620	156.00	2946	232.00	51	341.00	567
79.00	3719	157.00	712	234.00	864	346.00	860
80.00	2958	158.00	755	235.00	565	352.00	1320
81.00	4157	159.00	560	236.00	609	353.00	784
82.00	929	160.00	948	237.00	716	354.00	1299
83.00	1161	161.00	1623	239.00	387	355.00	347

Report Date: 16-Apr-2018 15:39:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D\8270LVI_18.rslt\spectra.d
Injection Date: 16-Apr-2018 06:01:30
Spectrum: Tune Spec :Average 761-763(5.52-5.53) Bgrd 752(5.49)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	196	162.00	660	240.00	180	359.00	127
85.00	677	165.00	1268	241.00	604	364.00	130
86.00	1412	166.00	1112	242.00	1364	365.00	5211
87.00	495	167.00	6062	243.00	1636	366.00	593
88.00	239	168.00	2804	244.00	17232	367.00	51
91.00	1111	169.00	511	245.00	2064	370.00	54
92.00	1330	171.00	322	246.00	3436	371.00	365
93.00	5862	172.00	587	247.00	796	372.00	1996
94.00	318	173.00	818	249.00	694	373.00	549
96.00	285	174.00	1384	250.00	115	383.00	307
97.00	121	175.00	3127	251.00	50	390.00	255
98.00	4851	176.00	839	252.00	235	391.00	118
99.00	3822	177.00	1533	253.00	482	401.00	57
100.00	419	178.00	385	255.00	91120	402.00	951
101.00	2150	179.00	5053	256.00	13002	403.00	1027
102.00	107	180.00	3350	257.00	919	404.00	360
103.00	1143	181.00	1470	258.00	4173	421.00	1174
104.00	1724	182.00	486	259.00	780	422.00	1456
105.00	1559	184.00	409	260.00	129	423.00	7377
106.00	560	185.00	2805	264.00	222	424.00	1727
107.00	18776	186.00	19376	265.00	1932	425.00	112
108.00	2875	187.00	6329	266.00	265	432.00	52
110.00	33720	188.00	400	270.00	103	434.00	233
111.00	5238	189.00	1039	271.00	232	435.00	144
112.00	657	190.00	214	272.00	249	436.00	165
116.00	1290	191.00	799	273.00	3266	437.00	348
117.00	12498	192.00	1590	274.00	6833	438.00	507
118.00	802	193.00	1594	275.00	41584	439.00	1139
119.00	190	194.00	360	276.00	5012	440.00	1306
120.00	315	195.00	457	277.00	3452	441.00	23736
122.00	1053	196.00	4506	278.00	532	442.00	144448
123.00	1688	198.00	142016	282.00	141	443.00	26192
124.00	897	199.00	9187	283.00	428	444.00	2898
125.00	935	200.00	809	284.00	391	445.00	180

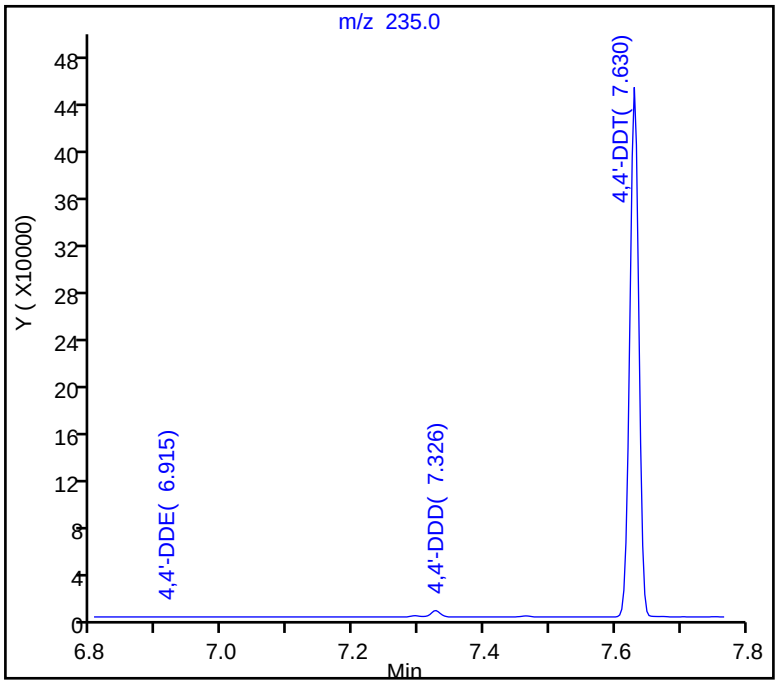
m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	196	162.00	660	240.00	180	359.00	127
85.00	677	165.00	1268	241.00	604	364.00	130
86.00	1412	166.00	1112	242.00	1364	365.00	5211
87.00	495	167.00	6062	243.00	1636	366.00	593
88.00	239	168.00	2804	244.00	17232	367.00	51
91.00	1111	169.00	511	245.00	2064	370.00	54
92.00	1330	171.00	322	246.00	3436	371.00	365
93.00	5862	172.00	587	247.00	796	372.00	1996
94.00	318	173.00	818	249.00	694	373.00	549
96.00	285	174.00	1384	250.00	115	383.00	307
97.00	121	175.00	3127	251.00	50	390.00	255
98.00	4851	176.00	839	252.00	235	391.00	118
99.00	3822	177.00	1533	253.00	482	401.00	57
100.00	419	178.00	385	255.00	91120	402.00	951
101.00	2150	179.00	5053	256.00	13002	403.00	1027
102.00	107	180.00	3350	257.00	919	404.00	360
103.00	1143	181.00	1470	258.00	4173	421.00	1174
104.00	1724	182.00	486	259.00	780	422.00	1456
105.00	1559	184.00	409	260.00	129	423.00	7377
106.00	560	185.00	2805	264.00	222	424.00	1727
107.00	18776	186.00	19376	265.00	1932	425.00	112
108.00	2875	187.00	6329	266.00	265	432.00	52
110.00	33720	188.00	400	270.00	103	434.00	233
111.00	5238	189.00	1039	271.00	232	435.00	144
112.00	657	190.00	214	272.00	249	436.00	165
116.00	1290	191.00	799	273.00	3266	437.00	348
117.00	12498	192.00	1590	274.00	6833	438.00	507
118.00	802	193.00	1594	275.00	41584	439.00	1139
119.00	190	194.00	360	276.00	5012	440.00	1306
120.00	315	195.00	457	277.00	3452	441.00	23736
122.00	1053	196.00	4506	278.00	532	442.00	144448
123.00	1688	198.00	142016	282.00	141	443.00	26192
124.00	897	199.00	9187	283.00	428	444.00	2898
125.00	935	200.00	809	284.00	391	445.00	180

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D
Injection Date: 16-Apr-2018 06:01:30 Instrument ID: CBNAMS18
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 429768
126 4,4'-DDD, Area = 5370
125 4,4'-DDE, Area = 626

%Breakdown: 1.38%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

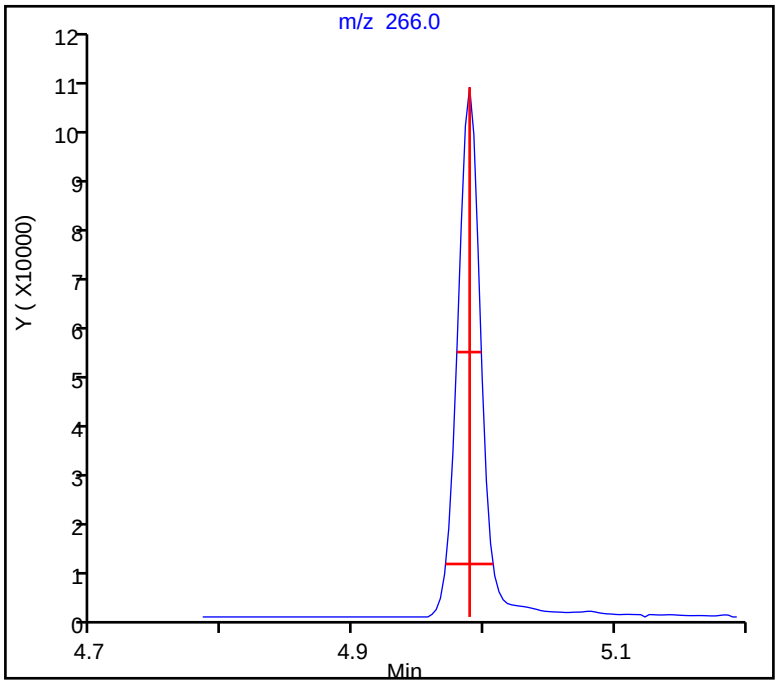
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D
Injection Date: 16-Apr-2018 06:01:30 Instrument ID: CBNAMS18
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

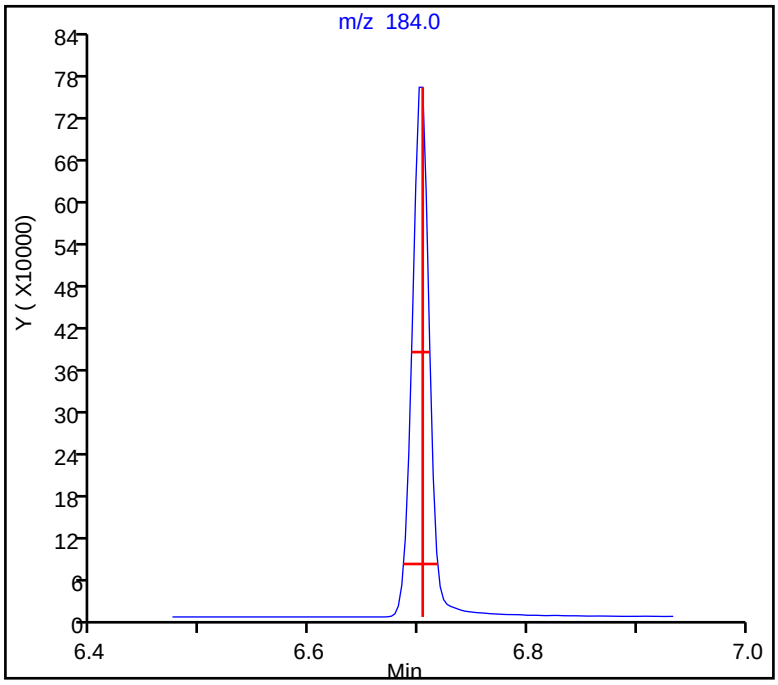
Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01547.D
Injection Date: 16-Apr-2018 06:01:30 Instrument ID: CBNAMS18
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_18 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-511220/1-A

Matrix: Solid | Lab File ID: P01552.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 04/15/2018 12:48

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 08:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 511320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	1.3	U	10	1.3
95-95-4	2,4,5-Trichlorophenol	0.30	U	10	0.30
88-06-2	2,4,6-Trichlorophenol	0.30	U	10	0.30
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
95-48-7	2-Methylphenol	0.30	U	10	0.30
15831-10-4	3 & 4 Methylphenol	0.20	U	10	0.20
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.80	U	2.0	0.80
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
98-95-3	Nitrobenzene	0.60	U	1.0	0.60
87-86-5	Pentachlorophenol	1.4	U	30	1.4
110-86-1	Pyridine	1.9	U	10	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	103		26-139
321-60-8	2-Fluorobiphenyl	89		45-107
367-12-4	2-Fluorophenol (Surr)	35		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	91		51-108
4165-62-2	Phenol-d5 (Surr)	23		14-39
1718-51-0	Terphenyl-d14 (Surr)	92		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01552.D
Lims ID: MB 460-511220/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2018 08:04:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-006
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 15:44:59 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 15:44:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.062	3.078	-0.016	96	107929	10.0	3.53	
$ 6 Phenol-d5	99	3.959	3.968	-0.009	99	84428	10.0	2.29	
* 14 1,4-Dichlorobenzene-d4	152	4.259	4.265	-0.006	96	185518	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.789	4.793	-0.004	90	280439	10.0	9.09	
* 38 Naphthalene-d8	136	5.471	5.476	-0.005	99	696780	8.00	8.00	
$ 51 2-Fluorobiphenyl	172	6.505	6.506	-0.001	98	585461	10.0	8.87	
* 64 Acenaphthene-d10	164	7.137	7.142	-0.005	98	322908	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.888	7.891	-0.003	93	98573	10.0	10.3	
* 87 Phenanthrene-d10	188	8.536	8.540	-0.004	99	654874	8.00	8.00	
$ 96 Terphenyl-d14	244	10.048	10.049	-0.001	100	718422	10.0	9.16	
* 102 Chrysene-d12	240	11.124	11.132	-0.008	99	528878	8.00	8.00	
* 109 Perylene-d12	264	12.951	12.958	-0.007	99	473244	8.00	8.00	

Reagents:

SM_ISTD_LVI_00173 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 16-Apr-2018 15:45:00 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01552.D

Injection Date: 16-Apr-2018 08:04:30 Instrument ID: CBNAMS18 Operator ID:

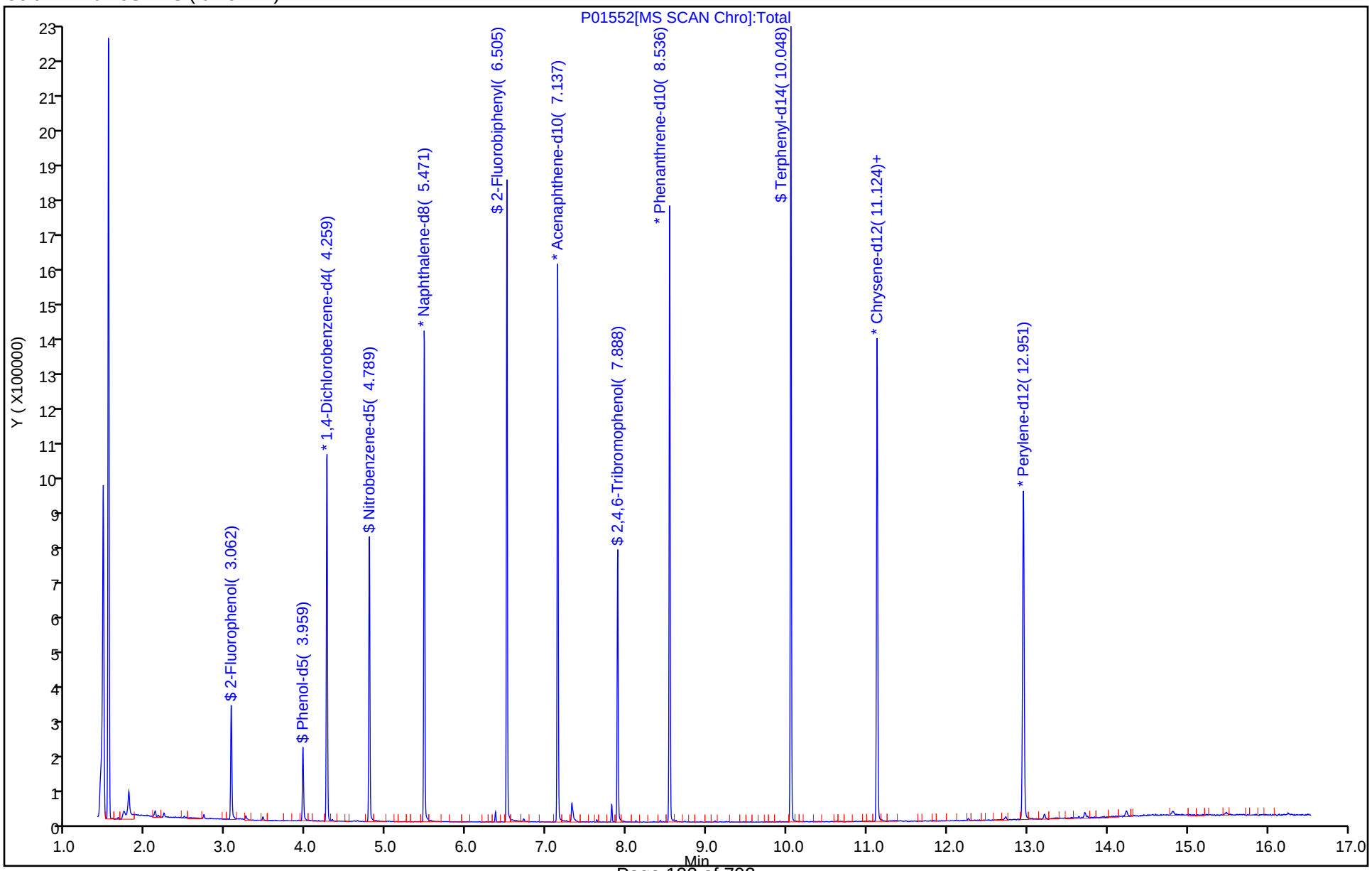
Lims ID: MB 460-511220/1-A Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 460-511103/1-D

Matrix: Solid (TCLP) | Lab File ID: P01557.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 04/15/2018 12:48

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 09:50

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

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 511320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.0052	U	0.040	0.0052
95-95-4	2,4,5-Trichlorophenol	0.0012	U	0.040	0.0012
88-06-2	2,4,6-Trichlorophenol	0.0012	U	0.040	0.0012
121-14-2	2,4-Dinitrotoluene	0.0040	U	0.0080	0.0040
95-48-7	2-Methylphenol	0.0012	U	0.040	0.0012
15831-10-4	3 & 4 Methylphenol	0.00080	U	0.040	0.00080
118-74-1	Hexachlorobenzene	0.0016	U	0.0040	0.0016
87-68-3	Hexachlorobutadiene	0.0032	U	0.0080	0.0032
67-72-1	Hexachloroethane	0.0048	U	0.0080	0.0048
98-95-3	Nitrobenzene	0.0024	U	0.0040	0.0024
87-86-5	Pentachlorophenol	0.0056	U	0.12	0.0056
110-86-1	Pyridine	0.0076	U	0.040	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	103		26-139
321-60-8	2-Fluorobiphenyl	94		45-107
367-12-4	2-Fluorophenol (Surr)	42		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	95		51-108
4165-62-2	Phenol-d5 (Surr)	25		14-39
1718-51-0	Terphenyl-d14 (Surr)	89		40-148

Report Date: 16-Apr-2018 15:47:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01557.D
Lims ID: LB 460-511103/1-D
Client ID:
Sample Type: LB
Inject. Date: 16-Apr-2018 09:50:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-011
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 15:47:55 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 15:47:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.072	3.078	-0.006	98	152790	10.0	4.24	
$ 6 Phenol-d5	99	3.960	3.968	-0.008	98	110085	10.0	2.54	
* 14 1,4-Dichlorobenzene-d4	152	4.260	4.265	-0.005	96	218336	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.790	4.793	-0.003	90	340636	10.0	9.50	
* 38 Naphthalene-d8	136	5.473	5.476	-0.003	99	809491	8.00	8.00	
$ 51 2-Fluorobiphenyl	172	6.504	6.506	-0.002	98	699982	10.0	9.39	
* 64 Acenaphthene-d10	164	7.136	7.142	-0.006	98	364421	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.886	7.891	-0.005	92	111243	10.0	10.3	
* 87 Phenanthrene-d10	188	8.534	8.540	-0.006	98	718415	8.00	8.00	
$ 96 Terphenyl-d14	244	10.048	10.049	-0.001	100	789498	10.0	8.89	
* 102 Chrysene-d12	240	11.124	11.132	-0.008	99	598669	8.00	8.00	
* 109 Perylene-d12	264	12.950	12.958	-0.008	98	566126	8.00	8.00	

Reagents:

SM_ISTD_LVI_00173 Amount Added: 20.00 Units: uL Run Reagent

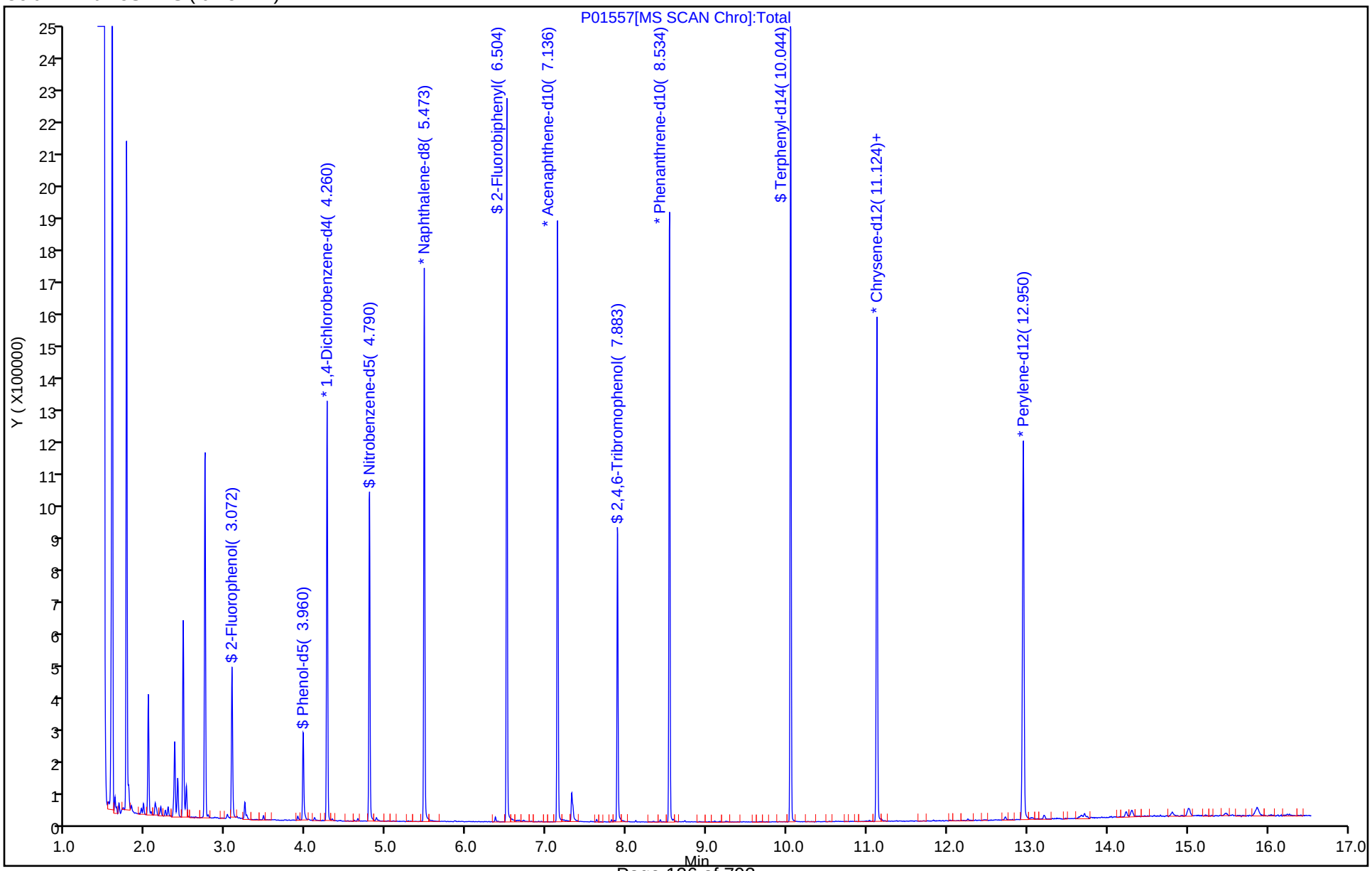
Report Date: 16-Apr-2018 15:47:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01557.D

Injection Date:	16-Apr-2018 09:50:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	LB 460-511103/1-D			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-511220/2-A

Matrix: Solid | Lab File ID: P01553.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 04/15/2018 12:48

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 08:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 511320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	53.1		10	1.3
95-95-4	2,4,5-Trichlorophenol	84.4		10	0.30
88-06-2	2,4,6-Trichlorophenol	87.0		10	0.30
121-14-2	2,4-Dinitrotoluene	86.7		2.0	1.0
95-48-7	2-Methylphenol	53.7		10	0.30
15831-10-4	3 & 4 Methylphenol	44.3		10	0.20
118-74-1	Hexachlorobenzene	84.7		1.0	0.40
87-68-3	Hexachlorobutadiene	50.3		2.0	0.80
67-72-1	Hexachloroethane	42.4		2.0	1.2
98-95-3	Nitrobenzene	76.8		1.0	0.60
87-86-5	Pentachlorophenol	164		30	1.4
110-86-1	Pyridine	88.3		10	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	113		26-139
321-60-8	2-Fluorobiphenyl	98		45-107
367-12-4	2-Fluorophenol (Surr)	46		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	97		51-108
4165-62-2	Phenol-d5 (Surr)	30		14-39
1718-51-0	Terphenyl-d14 (Surr)	96		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01553.D
Lims ID: LCS 460-511220/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2018 08:24:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-007
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 16:00:45 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 16:00:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.737	1.736	0.000	96	64129	10.0	5.41	
2 N-Nitrosodimethylamine	74	1.948	1.948	0.000	90	101429	10.0	5.19	
3 Pyridine	79	1.977	1.974	0.000	89	363898	20.0	11.0	
$ 4 2-Fluorophenol	112	3.075	3.078	-0.003	96	158346	10.0	4.62	
8 Aniline	93	3.956	3.959	-0.003	100	392824	10.0	7.50	
$ 6 Phenol-d5	99	3.962	3.968	-0.006	98	124401	10.0	3.02	
7 Phenol	94	3.975	3.976	-0.006	98	157629	10.0	3.76	
9 Bis(2-chloroethyl)ether	93	4.007	4.005	-0.003	95	318537	10.0	9.54	
10 Benzonitrile	103	4.023	4.026	-0.003	98	632959	NC	NC	
11 2-Chlorophenol	128	4.084	4.081	-0.003	97	299723	10.0	8.39	
12 n-Decane	43	4.109	4.112	-0.003	90	152667	10.0	4.31	
13 1,3-Dichlorobenzene	146	4.208	4.211	-0.003	96	267580	10.0	6.53	
* 14 1,4-Dichlorobenzene-d4	152	4.262	4.265	-0.003	98	207731	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.278	4.281	-0.003	95	273073	10.0	6.64	
16 Benzyl alcohol	108	4.406	4.409	-0.003	93	162281	10.0	7.28	
17 1,2-Dichlorobenzene	146	4.425	4.425	0.000	96	276992	10.0	7.12	
19 2,2'-oxybis[1-chloropropan	45	4.524	4.517	0.000	93	411624	10.0	8.76	a
18 2-Methylphenol	108	4.540	4.538	-0.003	89	209196	10.0	6.71	
20 N-Methylaniline	106	4.643	4.646	-0.003	98	460345	10.0	8.83	
21 Acetophenone	105	4.649	4.649	0.000	92	458987	10.0	9.25	
22 N-Nitrosodi-n-propylamine	70	4.652	4.649	-0.003	87	230382	10.0	8.88	
23 3 & 4 Methylphenol	108	4.691	4.688	-0.003	63	195212	10.0	5.54	
24 4-Methylphenol	108	4.691	4.688	-0.003	96	193614	10.0	5.50	
25 Hexachloroethane	117	4.745	4.748	-0.003	94	82136	10.0	5.30	
$ 27 Nitrobenzene-d5	82	4.793	4.793	0.000	88	328582	10.0	9.69	
28 Nitrobenzene	123	4.812	4.812	0.000	93	163125	10.0	9.60	
29 n,n'-Dimethylaniline	120	4.812	4.815	-0.003	94	510315	10.0	9.20	
30 Isophorone	82	5.036	5.039	-0.003	99	571801	10.0	10.2	
32 2-Nitrophenol	139	5.115	5.112	0.000	95	177968	10.0	10.8	
33 2,4-Dimethylphenol	122	5.186	5.189	-0.003	92	260895	10.0	9.43	
34 Bis(2-chloroethoxy)methane	93	5.250	5.250	0.000	98	371929	10.0	10.1	
35 Benzoic acid	122	5.282	5.310	-0.031	85	61871	10.0	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.365	5.368	-0.003	96	259024	10.0	9.97	
37 1,2,4-Trichlorobenzene	180	5.422	5.425	-0.003	95	244775	10.0	8.16	
* 38 Naphthalene-d8	136	5.477	5.476	0.001	99	765823	8.00	8.00	
39 Naphthalene	128	5.496	5.496	0.000	99	877725	10.0	9.32	
40 4-Chloroaniline	127	5.560	5.563	-0.003	97	371953	10.0	9.50	
41 Hexachlorobutadiene	225	5.621	5.620	-0.003	96	113280	10.0	6.29	
43 4-Chloro-3-methylphenol	107	6.055	6.055	0.000	96	229078	10.0	8.87	
44 2-Methylnaphthalene	142	6.154	6.154	0.000	85	589527	10.0	8.88	
45 1-Methylnaphthalene	142	6.247	6.250	-0.003	92	566594	10.0	9.05	
46 Hexachlorocyclopentadiene	237	6.311	6.310	0.001	97	151551	10.0	7.42	
47 1,2,4,5-Tetrachlorobenzene	216	6.317	6.317	0.000	97	272933	10.0	9.58	
48 2-tertbutyl-4-methylphenol	149	6.371	6.371	0.000	90	430732	10.0	10.3	
49 2,4,6-Trichlorophenol	196	6.439	6.442	-0.003	91	193612	10.0	10.9	
50 2,4,5-Trichlorophenol	196	6.483	6.487	-0.003	98	202411	10.0	10.6	
$ 51 2-Fluorobiphenyl	172	6.506	6.506	0.000	98	677983	10.0	9.81	
52 1,1'-Biphenyl	154	6.599	6.598	0.001	95	731493	10.0	9.90	
53 2-Chloronaphthalene	162	6.615	6.614	0.001	98	546731	10.0	9.77	
54 Phenyl ether	170	6.698	6.701	-0.003	84	378425	10.0	10.2	
55 2-Nitroaniline	65	6.723	6.726	-0.003	96	161378	10.0	8.86	
57 1,3-Dimethylnaphthalene	156	6.822	6.826	-0.004	91	455955	10.0	9.98	
59 Dimethyl phthalate	163	6.896	6.899	-0.003	99	672769	10.0	10.6	
60 Coumarin	146	6.909	6.912	-0.003	80	207418	10.0	9.97	
61 2,6-Dinitrotoluene	165	6.950	6.950	0.000	96	152599	10.0	11.2	
62 Acenaphthylene	152	7.005	7.008	-0.003	98	843346	10.0	10.1	
63 3-Nitroaniline	138	7.117	7.117	0.000	97	147708	10.0	9.70	
* 64 Acenaphthene-d10	164	7.139	7.142	-0.003	97	337972	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.168	7.171	-0.003	96	536081	10.0	9.89	
66 Acenaphthene	154	7.171	7.171	0.000	95	532975	10.0	9.24	
67 2,4-Dinitrophenol	184	7.206	7.210	-0.004	96	187241	20.0	23.4	
69 2,4-Dinitrotoluene	165	7.328	7.328	0.000	93	198392	10.0	10.8	
68 4-Nitrophenol	65	7.328	7.331	-0.003	81	81459	20.0	7.70	
70 Dibenzofuran	168	7.334	7.334	0.000	95	784026	10.0	9.89	
72 2,3,4,6-Tetrachlorophenol	232	7.465	7.465	0.000	94	170701	10.0	10.5	
73 Diethyl phthalate	149	7.561	7.560	-0.004	98	692160	10.0	10.7	
75 Fluorene	166	7.654	7.657	-0.003	95	632753	10.0	10.2	
74 4-Chlorophenyl phenyl ethe	204	7.657	7.661	-0.004	89	316287	10.0	10.2	
76 4-Nitroaniline	138	7.696	7.699	-0.003	88	142851	10.0	9.52	
77 4,6-Dinitro-2-methylphenol	198	7.715	7.718	-0.003	89	217710	20.0	24.1	
78 N-Nitrosodiphenylamine	169	7.776	7.779	-0.003	99	473158	10.0	10.4	
79 1,2-Diphenylhydrazine	77	7.808	7.811	-0.003	99	588557	10.0	9.99	
$ 80 2,4,6-Tribromophenol	330	7.888	7.891	-0.003	92	112642	10.0	11.3	
81 4-Bromophenyl phenyl ether	248	8.118	8.121	-0.003	93	197620	10.0	10.3	
82 Hexachlorobenzene	284	8.179	8.179	0.000	96	220816	10.0	10.6	
84 Pentachlorophenol	266	8.377	8.372	-0.003	93	239894	20.0	20.5	
85 Pentachloronitrobenzene	237	8.377	8.380	-0.003	87	93900	10.0	10.9	
86 n-Octadecane	57	8.454	8.454	0.000	92	422904	10.0	9.45	
* 87 Phenanthrene-d10	188	8.537	8.540	-0.003	99	629375	8.00	8.00	
88 Phenanthrene	178	8.560	8.557	-0.003	97	941951	10.0	10.5	
89 Anthracene	178	8.608	8.611	-0.003	99	976694	10.0	10.7	
90 Carbazole	167	8.771	8.774	-0.003	96	820624	10.0	10.8	
91 Di-n-butyl phthalate	149	9.103	9.106	-0.003	99	1123694	10.0	11.4	
92 Fluoranthene	202	9.678	9.681	-0.003	98	983581	10.0	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Benzidine	184	9.815	9.822	-0.007	99	423989	10.0	8.97	
94 Pyrene	202	9.892	9.895	-0.003	98	981426	10.0	10.4	
95 Bisphenol-A	213	9.969	9.972	-0.003	98	174796	5.00	4.88	
$ 96 Terphenyl-d14	244	10.046	10.049	-0.003	100	712013	10.0	9.56	
97 Butyl benzyl phthalate	149	10.541	10.544	-0.003	95	434822	10.0	11.9	
99 Carbamazepine	193	10.646	10.653	-0.007	92	349811	10.0	12.1	
100 3,3'-Dichlorobenzidine	252	11.103	11.107	-0.004	100	321404	10.0	12.5	
101 Benzo[a]anthracene	228	11.116	11.119	-0.003	99	835846	10.0	10.9	
* 102 Chrysene-d12	240	11.126	11.132	-0.006	99	501879	8.00	8.00	
104 Chrysene	228	11.158	11.161	-0.003	98	797202	10.0	11.3	
103 Bis(2-ethylhexyl) phthalat	149	11.180	11.184	-0.004	84	611067	10.0	12.5	
105 Di-n-octyl phthalate	149	11.982	11.986	-0.004	96	983870	10.0	12.8	
106 Benzo[b]fluoranthene	252	12.439	12.443	-0.004	98	774601	10.0	11.0	
107 Benzo[k]fluoranthene	252	12.475	12.481	-0.006	99	805084	10.0	11.1	
108 Benzo[a]pyrene	252	12.874	12.878	-0.004	97	773994	10.0	11.9	
* 109 Perylene-d12	264	12.951	12.958	-0.007	98	469338	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.447	14.451	-0.004	99	685252	10.0	11.4	M
111 Dibenz(a,h)anthracene	278	14.486	14.493	-0.007	98	715030	10.0	11.6	
112 Benzo[g,h,i]perylene	276	14.851	14.855	-0.004	97	709425	10.0	11.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_ISTD_LVI_00173 Amount Added: 20.00 Units: uL Run Reagent

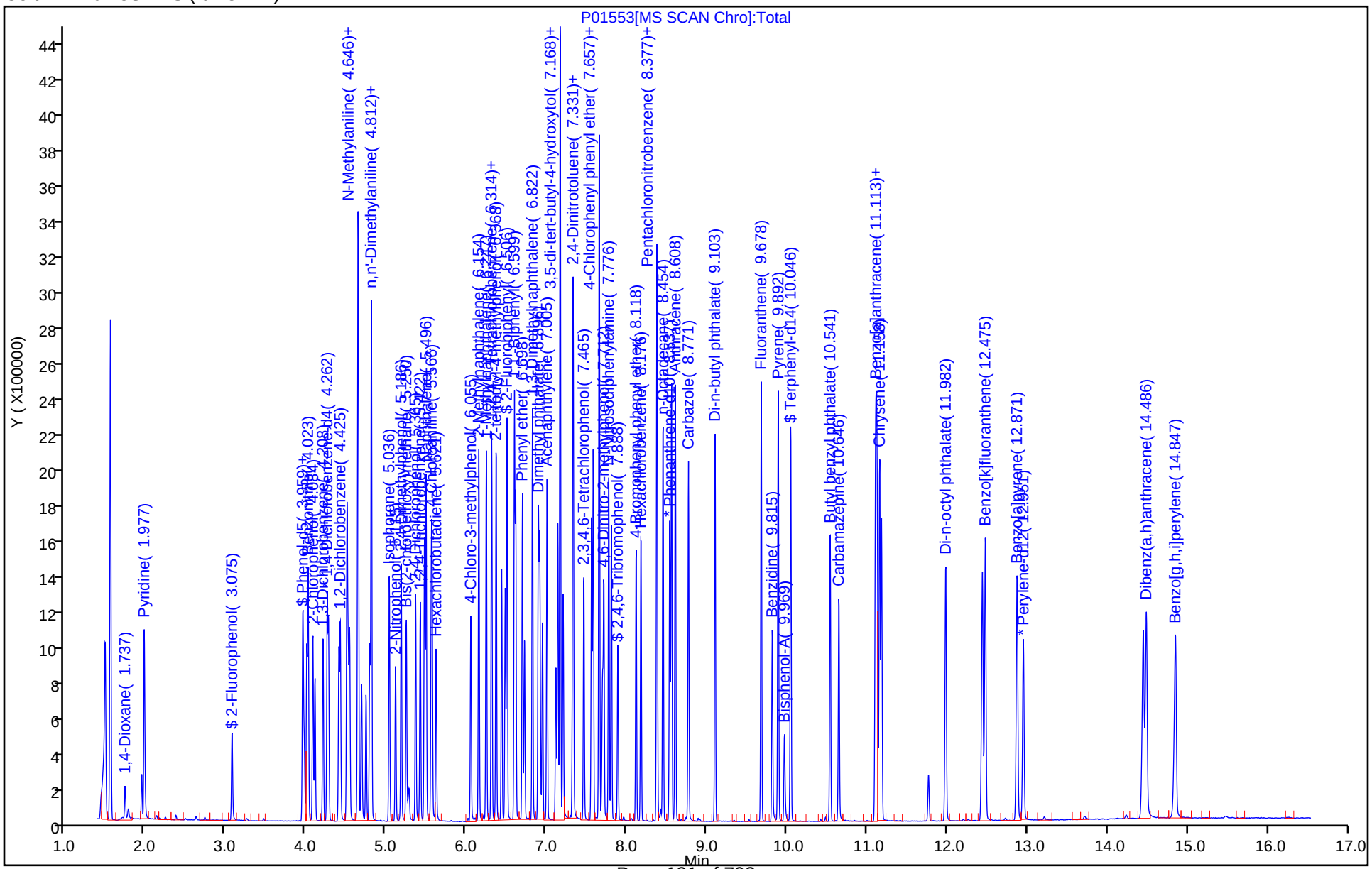
Report Date: 16-Apr-2018 16:00:48 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01553.D

Injection Date:	16-Apr-2018 08:24:30	Instrument ID:	CBNAMS18	Operator ID:	
Lims ID:	LCS 460-511220/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270LVI_18	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-511220/3-A

Matrix: Solid | Lab File ID: P01554.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 04/15/2018 12:48

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 08:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

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

Analysis Batch No.: 511320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	51.9		10	1.3
95-95-4	2,4,5-Trichlorophenol	82.0		10	0.30
88-06-2	2,4,6-Trichlorophenol	84.6		10	0.30
121-14-2	2,4-Dinitrotoluene	83.0		2.0	1.0
95-48-7	2-Methylphenol	51.6		10	0.30
15831-10-4	3 & 4 Methylphenol	42.8		10	0.20
118-74-1	Hexachlorobenzene	80.3		1.0	0.40
87-68-3	Hexachlorobutadiene	50.2		2.0	0.80
67-72-1	Hexachloroethane	42.1		2.0	1.2
98-95-3	Nitrobenzene	72.1		1.0	0.60
87-86-5	Pentachlorophenol	158		30	1.4
110-86-1	Pyridine	84.4		10	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	110		26-139
321-60-8	2-Fluorobiphenyl	97		45-107
367-12-4	2-Fluorophenol (Surr)	44		25-58
4165-60-0	Nitrobenzene-d5 (Surr)	94		51-108
4165-62-2	Phenol-d5 (Surr)	29		14-39
1718-51-0	Terphenyl-d14 (Surr)	93		40-148

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01554.D
Lims ID: LCSD 460-511220/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 16-Apr-2018 08:46:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070424-008
Operator ID: Instrument ID: CBNAMS18

Method: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\8270LVI_18.m
Limit Group: SV 8270D ICAL
Last Update: 16-Apr-2018 16:01:32 Calib Date: 28-Mar-2018 04:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS18\20180327-69380.b\P00981.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: asfawa Date: 16-Apr-2018 16:01:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.741	1.736	0.004	97	66817	10.0	5.02	
	2 N-Nitrosodimethylamine	74	1.948	1.948	0.000	89	107150	10.0	4.88	
	3 Pyridine	79	1.980	1.974	0.003	90	391013	20.0	10.6	
$	4 2-Fluorophenol	112	3.072	3.078	-0.006	96	169596	10.0	4.41	
	8 Aniline	93	3.956	3.959	-0.003	100	421462	10.0	7.16	
$	6 Phenol-d5	99	3.962	3.968	-0.006	97	133915	10.0	2.89	
	7 Phenol	94	3.975	3.976	-0.006	98	172530	10.0	3.67	
	9 Bis(2-chloroethyl)ether	93	4.007	4.005	-0.003	95	336435	10.0	8.97	
	10 Benzonitrile	103	4.023	4.026	-0.003	98	676613	NC	NC	
	11 2-Chlorophenol	128	4.081	4.081	-0.006	97	328348	10.0	8.18	
	12 n-Decane	43	4.109	4.112	-0.003	90	175392	10.0	4.41	
	13 1,3-Dichlorobenzene	146	4.209	4.211	-0.003	96	284766	10.0	6.18	
*	14 1,4-Dichlorobenzene-d4	152	4.263	4.265	-0.002	95	233390	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.279	4.281	-0.002	96	299831	10.0	6.48	
	16 Benzyl alcohol	108	4.407	4.409	-0.002	93	172402	10.0	6.89	
	17 1,2-Dichlorobenzene	146	4.426	4.425	0.001	97	296760	10.0	6.79	
	19 2,2'-oxybis[1-chloropropan	45	4.522	4.517	-0.002	93	431330	10.0	8.17	a
	18 2-Methylphenol	108	4.541	4.538	-0.002	90	226153	10.0	6.45	
	20 N-Methylaniline	106	4.643	4.646	-0.003	98	493234	10.0	8.44	
	21 Acetophenone	105	4.649	4.649	0.000	92	491469	10.0	8.81	
	22 N-Nitrosodi-n-propylamine	70	4.653	4.649	-0.002	86	245292	10.0	8.41	
	23 3 & 4 Methylphenol	108	4.691	4.688	-0.003	62	211873	10.0	5.35	
	24 4-Methylphenol	108	4.691	4.688	-0.003	96	209428	10.0	5.30	
	25 Hexachloroethane	117	4.745	4.748	-0.003	94	91782	10.0	5.27	
$	27 Nitrobenzene-d5	82	4.793	4.793	0.000	88	357004	10.0	9.39	
	28 Nitrobenzene	123	4.812	4.812	0.000	94	171890	10.0	9.01	
	29 n,n'-Dimethylaniline	120	4.812	4.815	-0.003	94	545131	10.0	8.75	
	30 Isophorone	82	5.036	5.039	-0.003	99	618455	10.0	9.81	
	32 2-Nitrophenol	139	5.116	5.112	0.001	95	190479	10.0	10.3	
	33 2,4-Dimethylphenol	122	5.186	5.189	-0.003	91	278681	10.0	8.98	
	34 Bis(2-chloroethoxy)methane	93	5.250	5.250	0.000	99	402701	10.0	9.73	
	35 Benzoic acid	122	5.282	5.310	-0.031	88	69843	10.0	4.38	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.365	5.368	-0.003	97	275155	10.0	9.45	
37 1,2,4-Trichlorobenzene	180	5.423	5.425	-0.002	94	260894	10.0	7.76	
* 38 Naphthalene-d8	136	5.477	5.476	0.001	99	858454	8.00	8.00	
39 Naphthalene	128	5.496	5.496	0.000	99	923923	10.0	8.75	
40 4-Chloroaniline	127	5.560	5.563	-0.003	98	405726	10.0	9.24	
41 Hexachlorobutadiene	225	5.621	5.620	-0.003	96	126668	10.0	6.28	
43 4-Chloro-3-methylphenol	107	6.052	6.055	-0.003	96	248799	10.0	8.59	
44 2-Methylnaphthalene	142	6.154	6.154	0.000	85	638028	10.0	8.58	
45 1-Methylnaphthalene	142	6.247	6.250	-0.003	93	611143	10.0	8.71	
46 Hexachlorocyclopentadiene	237	6.311	6.310	0.001	97	172120	10.0	7.56	
47 1,2,4,5-Tetrachlorobenzene	216	6.314	6.317	-0.003	98	298141	10.0	9.39	
48 2-tertbutyl-4-methylphenol	149	6.369	6.371	-0.002	90	462095	10.0	9.85	
49 2,4,6-Trichlorophenol	196	6.439	6.442	-0.003	91	209761	10.0	10.6	
50 2,4,5-Trichlorophenol	196	6.484	6.487	-0.002	99	218936	10.0	10.2	
$ 51 2-Fluorobiphenyl	172	6.506	6.506	0.000	98	749848	10.0	9.74	
52 1,1'-Biphenyl	154	6.599	6.598	0.001	95	788980	10.0	9.59	
53 2-Chloronaphthalene	162	6.615	6.614	0.001	99	595362	10.0	9.55	
54 Phenyl ether	170	6.698	6.701	-0.003	83	403440	10.0	9.72	
55 2-Nitroaniline	65	6.724	6.726	-0.002	94	169260	10.0	8.34	
57 1,3-Dimethylnaphthalene	156	6.823	6.826	-0.003	90	490182	10.0	9.63	
59 Dimethyl phthalate	163	6.897	6.899	-0.002	99	727583	10.0	10.3	
60 Coumarin	146	6.909	6.912	-0.003	81	224323	10.0	9.62	
61 2,6-Dinitrotoluene	165	6.948	6.950	-0.002	96	162800	10.0	10.7	
62 Acenaphthylene	152	7.005	7.008	-0.003	97	908867	10.0	9.80	
63 3-Nitroaniline	138	7.114	7.117	-0.003	96	160995	10.0	9.49	
* 64 Acenaphthene-d10	164	7.140	7.142	-0.002	97	376668	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.169	7.171	-0.003	94	580437	10.0	9.61	
66 Acenaphthene	154	7.169	7.171	-0.003	95	563776	10.0	8.77	
67 2,4-Dinitrophenol	184	7.207	7.210	-0.003	96	202720	20.0	22.8	
69 2,4-Dinitrotoluene	165	7.325	7.328	-0.003	94	211847	10.0	10.4	
68 4-Nitrophenol	65	7.329	7.331	-0.002	81	88508	20.0	7.51	
70 Dibenzofuran	168	7.335	7.334	0.001	94	852994	10.0	9.65	
72 2,3,4,6-Tetrachlorophenol	232	7.466	7.465	0.001	94	184510	10.0	10.2	
73 Diethyl phthalate	149	7.562	7.560	-0.003	98	749762	10.0	10.4	
75 Fluorene	166	7.655	7.657	-0.002	94	688198	10.0	9.99	
74 4-Chlorophenyl phenyl ethe	204	7.658	7.661	-0.003	88	346001	10.0	10.0	
76 4-Nitroaniline	138	7.700	7.699	0.001	88	157447	10.0	9.42	
77 4,6-Dinitro-2-methylphenol	198	7.716	7.718	-0.002	89	232412	20.0	22.6	
78 N-Nitrosodiphenylamine	169	7.777	7.779	-0.002	99	514070	10.0	9.92	
79 1,2-Diphenylhydrazine	77	7.809	7.811	-0.002	99	640903	10.0	9.55	
$ 80 2,4,6-Tribromophenol	330	7.889	7.891	-0.002	92	122904	10.0	11.0	
81 4-Bromophenyl phenyl ether	248	8.119	8.121	-0.002	93	220059	10.0	10.1	
82 Hexachlorobenzene	284	8.176	8.179	-0.003	97	238802	10.0	10.0	
84 Pentachlorophenol	266	8.378	8.372	-0.002	94	263425	20.0	19.8	
85 Pentachloronitrobenzene	237	8.378	8.380	-0.002	87	104100	10.0	10.6	
86 n-Octadecane	57	8.451	8.454	-0.003	92	454351	10.0	8.91	
* 87 Phenanthrene-d10	188	8.538	8.540	-0.002	99	717167	8.00	8.00	
88 Phenanthrene	178	8.560	8.557	-0.003	97	1015448	10.0	9.90	
89 Anthracene	178	8.608	8.611	-0.003	99	1067773	10.0	10.2	
90 Carbazole	167	8.771	8.774	-0.003	96	899138	10.0	10.4	
91 Di-n-butyl phthalate	149	9.104	9.106	-0.002	99	1219022	10.0	10.9	
92 Fluoranthene	202	9.679	9.681	-0.002	98	1075068	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Benzidine	184	9.816	9.822	-0.006	99	472655	10.0	8.79	
94 Pyrene	202	9.893	9.895	-0.002	97	1070792	10.0	10.0	
95 Bisphenol-A	213	9.966	9.972	-0.006	98	193020	5.00	4.75	
$ 96 Terphenyl-d14	244	10.046	10.049	-0.003	100	786730	10.0	9.32	
97 Butyl benzyl phthalate	149	10.539	10.544	-0.005	95	470625	10.0	11.4	
99 Carbamazepine	193	10.647	10.653	-0.006	93	387023	10.0	11.8	
100 3,3'-Dichlorobenzidine	252	11.104	11.107	-0.003	99	357586	10.0	12.2	
101 Benzo[a]anthracene	228	11.117	11.119	-0.002	99	905160	10.0	10.4	
* 102 Chrysene-d12	240	11.127	11.132	-0.005	99	569274	8.00	8.00	
104 Chrysene	228	11.156	11.161	-0.005	99	873441	10.0	11.0	
103 Bis(2-ethylhexyl) phthalat	149	11.181	11.184	-0.003	84	670780	10.0	12.1	
105 Di-n-octyl phthalate	149	11.980	11.986	-0.006	96	1071887	10.0	12.1	
106 Benzo[b]fluoranthene	252	12.440	12.443	-0.003	99	863245	10.0	10.6	
107 Benzo[k]fluoranthene	252	12.476	12.481	-0.005	99	892802	10.0	10.7	M
108 Benzo[a]pyrene	252	12.875	12.878	-0.003	97	842517	10.0	11.2	
* 109 Perylene-d12	264	12.952	12.958	-0.006	98	540029	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.448	14.451	-0.003	99	771087	10.0	11.1	M
111 Dibenz(a,h)anthracene	278	14.487	14.493	-0.006	98	787834	10.0	11.1	
112 Benzo[g,h,i]perylene	276	14.852	14.855	-0.003	97	796982	10.0	10.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_ISTD_LVI_00173 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 16-Apr-2018 16:01:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS18\20180416-70424.b\P01554.D

Injection Date: 16-Apr-2018 08:46:30 Instrument ID: CBNAMS18 Operator ID:

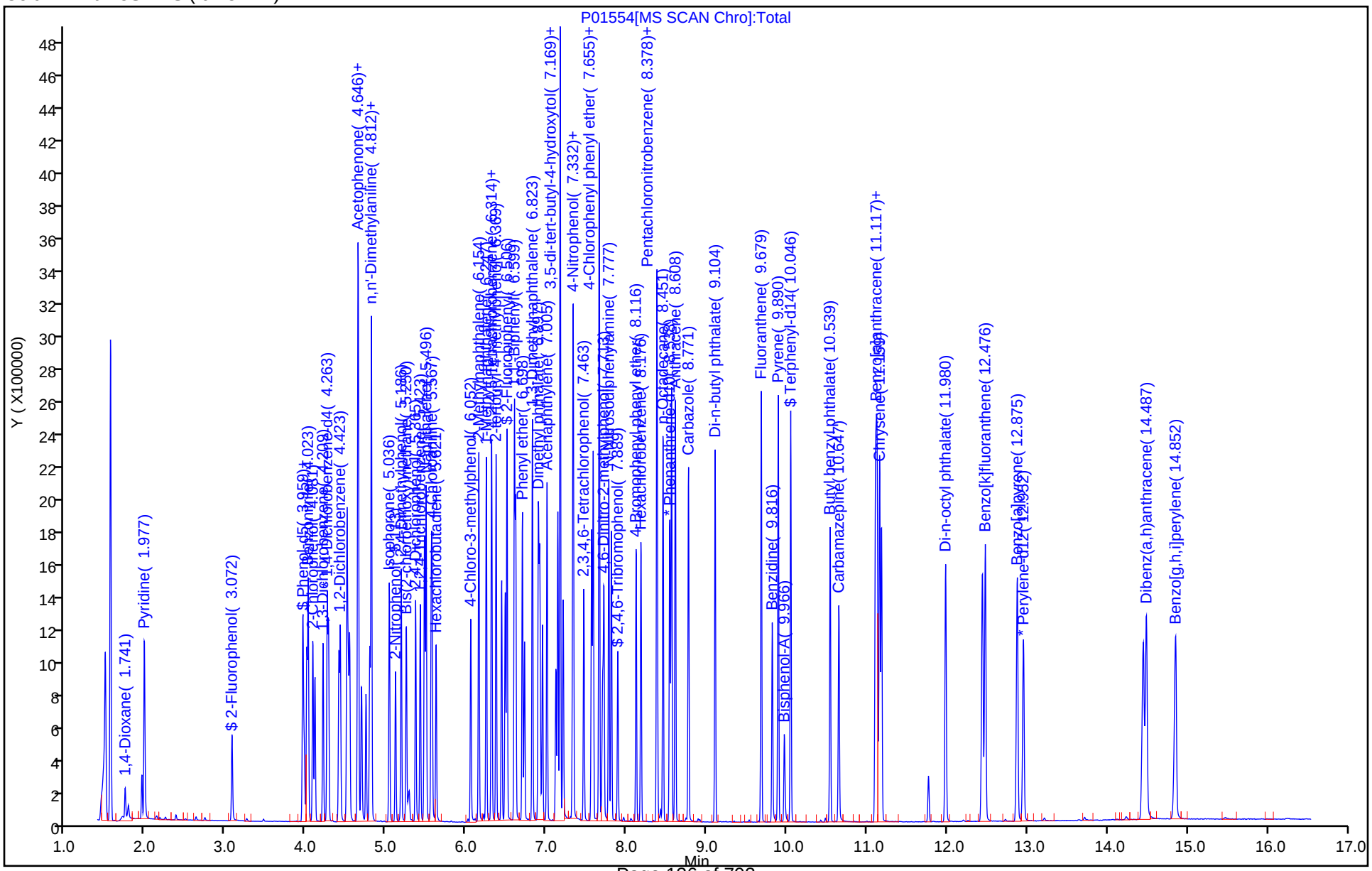
Lims ID: LCSD 460-511220/3-A Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8270LVI_18 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CBNAMS18 Start Date: 03/27/2018 22:15

Analysis Batch Number: 506381 End Date: 03/28/2018 04:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-506381/1		03/27/2018 22:15	1	P00966.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-506381/2		03/27/2018 22:48	1	P00967.D	Rtxi-5Sil MS 0.25(mm)
STD24 460-506381/3 IC		03/27/2018 23:23	1	P00968.D	Rtxi-5Sil MS 0.25(mm)
STD16 460-506381/4 IC		03/27/2018 23:44	1	P00969.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-506381/5 IC		03/28/2018 00:05	1	P00970.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-506381/6 IC		03/28/2018 00:26	1	P00971.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-506381/7 IC		03/28/2018 00:47	1	P00972.D	Rtxi-5Sil MS 0.25(mm)
STD02 460-506381/8 IC		03/28/2018 01:08	1	P00973.D	Rtxi-5Sil MS 0.25(mm)
STD01 460-506381/9 IC		03/28/2018 01:29	1	P00974.D	Rtxi-5Sil MS 0.25(mm)
STD10 460-506381/10 IC		03/28/2018 01:50	1		Rtxi-5Sil MS 0.25(mm)
STD24 460-506381/11 IC		03/28/2018 02:11	1		Rtxi-5Sil MS 0.25(mm)
STD16 460-506381/12 IC		03/28/2018 02:32	1		Rtxi-5Sil MS 0.25(mm)
STD4 460-506381/13 IC		03/28/2018 02:54	1		Rtxi-5Sil MS 0.25(mm)
STD2 460-506381/14 IC		03/28/2018 03:16	1		Rtxi-5Sil MS 0.25(mm)
STD1 460-506381/15 IC		03/28/2018 03:38	1		Rtxi-5Sil MS 0.25(mm)
STD02 460-506381/16 IC		03/28/2018 04:01	1		Rtxi-5Sil MS 0.25(mm)
ICV 460-506381/17		03/28/2018 04:24	1		Rtxi-5Sil MS 0.25(mm)
ICV 460-506381/18		03/28/2018 04:47	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CBNAMS18 Start Date: 04/16/2018 06:01

Analysis Batch Number: 511320 End Date: 04/16/2018 16:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-511320/1		04/16/2018 06:01	1	P01547.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-511320/2		04/16/2018 06:25	1	P01548.D	Rtxi-5Sil MS 0.25(mm)
CCV 460-511320/3		04/16/2018 06:50	1		Rtxi-5Sil MS 0.25(mm)
MB 460-511220/1-A		04/16/2018 08:04	1	P01552.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-511220/2-A		04/16/2018 08:24	1	P01553.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-511220/3-A		04/16/2018 08:46	1	P01554.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 09:07	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 09:28	1		Rtxi-5Sil MS 0.25(mm)
LB 460-511103/1-D		04/16/2018 09:50	1	P01557.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 10:12	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 10:35	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 10:58	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 11:21	1		Rtxi-5Sil MS 0.25(mm)
460-153774-1		04/16/2018 11:44	1	P01562.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 12:07	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 12:31	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 12:56	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 14:09	50		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 14:34	25		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		04/16/2018 15:25	5		Rtxi-5Sil MS 0.25(mm)
		04/16/2018 16:26	25		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	VesselNumber	FiltCompDate	FiltCompTime
LB 460-511103/1		1311, 3510C, 3510C, 8270D		100 g	2000 mL	4.92 SU	BB0	4/14/18	0700

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	ExtractFluid	AnalysisComment			
LB 460-511103/1		1311, 3510C, 3510C, 8270D		4.92 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18			

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	VesselNumber	FiltCompDate
460-153774-A-1	AshPit	1311, 3510C, 8270D	P	100.07 g	2000 mL	9.06 SU	1.67	AA2	4/14/18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
460-153774-A-1	AshPit	1311, 3510C, 8270D	P	0830	6.14 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511212 Batch Start Date: 04/15/18 10:25 Batch Analyst: Yallabandi, Gopichand X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	OPPSPCBSU_LVI 00014		
LB 460-511103/1-A		3510C, 3510C, 8270D		250 mL	1 mL	5 SU	50 uL		

Batch Notes	
Base Used to Adjust pH ID	OP2414
Batch Comment	8081 Pest water
Analyst ID - Concentration	gy
Analyst ID - Extraction	gy
Method/Fraction	8081 Pest WATER
Na2SO4 ID	176006
Prep Solvent ID	MeCL2 196137 hexane 190077
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	gy
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511220 Batch Start Date: 04/15/18 12:48 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SPIK 00027
MB 460-511220/1		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-511220/2		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	200 uL
LCSD 460-511220/3		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	200 uL
LB 460-511103/1-C		3510C, 8270D		250 mL	2 mL	5 SU	<2 SU	>12 SU	
460-153774-A-1-A	AshPit	3510C, 8270D	P	250 mL	2 mL	7 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00014					
MB 460-511220/1		3510C, 8270D		200 uL					
LCS 460-511220/2		3510C, 8270D		200 uL					
LCSD 460-511220/3		3510C, 8270D		200 uL					
LB 460-511103/1-C		3510C, 8270D		200 uL					
460-153774-A-1-A	AshPit	3510C, 8270D	P	200 uL					

Batch Notes	
Acid Used for pH Adjustment ID	184525
Base Used to Adjust pH ID	OP2414
Batch Comment	3510C LVI 8270D
Analyst ID - Concentration	SZ
Equipment ID - Concentration 1	BNA
Analyst ID - Extraction	SZ
Na2SO4 ID	171698
Pipette/Syringe/Dispenser ID	BNA
Prep Solvent ID	190010
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	SZ
Sufficient Volume for Batch QC	Yes

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511220 Batch Start Date: 04/15/18 12:48 Batch Analyst: Safraz, Muhammed I

Batch Method: 3510C Batch End Date:

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8081B

Organochlorine Pesticides by Gas Chromatography

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
AshPit	460-153774-1	66	68	73	79
	MB 460-511212/1-A	75	75	99	83
	LB 460-511103/1-C	65	69	73	79
	LCS 460-511212/2-A	82	73	78	79
	LCSD 460-511212/3-A	71	65	69	77

	QC LIMITS
TCX = Tetrachloro-m-xylene	12-136
DCBP = DCB Decachlorobiphenyl	10-150

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4077436.D

Lab ID: LCS 460-511212/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-Chlordane	0.800	0.742	93	59-131	
cis-Chlordane	0.800	0.859	107	59-131	
Endrin	0.800	0.796	99	60-135	
Endrin	0.800	0.880	110	60-135	
gamma-BHC (Lindane)	0.800	0.706	88	59-131	
gamma-BHC (Lindane)	0.800	0.850	106	59-131	
Heptachlor	0.800	0.692	86	54-126	
Heptachlor	0.800	0.850	106	54-126	
Heptachlor epoxide	0.800	0.735	92	60-130	
Heptachlor epoxide	0.800	0.880	110	60-130	
Methoxychlor	0.800	0.830	104	57-133	
Methoxychlor	0.800	0.742	93	57-133	
trans-Chlordane	0.800	0.736	92	60-132	
trans-Chlordane	0.800	0.897	112	60-132	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4077437.D

Lab ID: LCSD 460-511212/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-Chlordane	0.800	0.721	90	3	30	59-131	
cis-Chlordane	0.800	0.780	98	10	30	59-131	
Endrin	0.800	0.775	97	3	30	60-135	
Endrin	0.800	0.796	99	10	30	60-135	
gamma-BHC (Lindane)	0.800	0.689	86	2	30	59-131	
gamma-BHC (Lindane)	0.800	0.765	96	11	30	59-131	
Heptachlor	0.800	0.671	84	3	30	54-126	
Heptachlor	0.800	0.740	92	14	30	54-126	
Heptachlor epoxide	0.800	0.721	90	2	30	60-130	
Heptachlor epoxide	0.800	0.772	97	13	30	60-130	
Methoxychlor	0.800	0.794	99	4	30	57-133	
Methoxychlor	0.800	0.694	87	7	30	57-133	
trans-Chlordane	0.800	0.721	90	2	30	60-132	
trans-Chlordane	0.800	0.790	99	13	30	60-132	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: MB 460-511212/1-A

Matrix: Water Date Extracted: 04/15/2018 10:25

Lab File ID:(1) P4077435.D Lab File ID:(2) P4077435.D

Date Analyzed:(1) 04/16/2018 09:53 Date Analyzed:(2) 04/16/2018 09:53

Instrument ID:(1) CPESTGC4 Instrument ID:(2) CPESTGC4

GC Column:(1) Rtx-CLP ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-511212/2-A	04/16/2018 10:06	04/16/2018 10:06
	LCSD 460-511212/3-A	04/16/2018 10:17	04/16/2018 10:17
AshPit	460-153774-1	04/16/2018 10:41	04/16/2018 10:41
	LB 460-511103/1-C	04/16/2018 10:54	04/16/2018 10:54

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Sample No.: CCVIS 460-511361/7 Date Analyzed: 04/16/2018 09:27

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4077434.D Heated Purge: (Y/N) N

Calibration ID: 64225

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		40158914	1.55				
UPPER LIMIT		80317828	1.62				
LOWER LIMIT		20079457	1.48				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-511212/1-A		39876552	1.55				
LCS 460-511212/2-A		37319406	1.55				
LCSD 460-511212/3-A		42623874	1.55				
460-153774-1	AshPit	40048136	1.55				
LB 460-511103/1-C		37855360	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Sample No.: CCVIS 460-511361/7 Date Analyzed: 04/16/2018 09:27

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm)

Lab File ID (Standard): P4077434.D Heated Purge: (Y/N) N

Calibration ID: 64226

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		51820058	1.40				
UPPER LIMIT		103640116	1.47				
LOWER LIMIT		25910029	1.33				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-511212/1-A		49451180	1.40				
LCS 460-511212/2-A		46223790	1.40				
LCSD 460-511212/3-A		55618828	1.40				
460-153774-1	AshPit	53593366	1.40				
LB 460-511103/1-C		48582540	1.40				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-511212/2-A

Instrument ID (1): CPESTGC4 Instrument ID (2): CPESTGC4

Date Analyzed (1): 04/16/2018 10:06 Date Analyzed (2): 04/16/2018 10:06

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.17	2.16	2.18	0.850		18.5
	2		2.65	2.64	2.66	0.706		
Heptachlor	1		2.45	2.44	2.46	0.850		20.6
	2		2.98	2.97	2.99	0.692		
Heptachlor epoxide	1		3.03	3.01	3.03	0.880		17.9
	2		3.76	3.74	3.76	0.735		
trans-Chlordane	1		3.12	3.10	3.12	0.897		19.7
	2		3.95	3.94	3.96	0.736		
cis-Chlordane	1		3.21	3.20	3.22	0.859		14.7
	2		4.11	4.10	4.12	0.742		
Endrin	1		3.73	3.71	3.73	0.880		10.0
	2		4.78	4.77	4.79	0.796		
Methoxychlor	1		4.62	4.60	4.62	0.742		11.1
	2		5.57	5.56	5.58	0.830		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-511212/3-A

Instrument ID (1): CPESTGC4 Instrument ID (2): CPESTGC4

Date Analyzed (1): 04/16/2018 10:17 Date Analyzed (2): 04/16/2018 10:17

GC Column (1): Rtx-CLP ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.18	2.16	2.18	0.765		10.4
	2		2.65	2.64	2.66	0.689		
Heptachlor	1		2.45	2.44	2.46	0.740		9.8
	2		2.98	2.97	2.99	0.671		
Heptachlor epoxide	1		3.03	3.01	3.03	0.772		6.8
	2		3.75	3.74	3.76	0.721		
trans-Chlordane	1		3.12	3.10	3.12	0.790		9.2
	2		3.95	3.94	3.96	0.721		
cis-Chlordane	1		3.22	3.20	3.22	0.780		7.8
	2		4.11	4.10	4.12	0.721		
Endrin	1		3.73	3.71	3.73	0.796		2.6
	2		4.78	4.77	4.79	0.775		
Methoxychlor	1		4.62	4.60	4.62	0.694		13.4
	2		5.57	5.56	5.58	0.794		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: AshPit | Lab Sample ID: 460-153774-1

Matrix: Solid (TCLP) | Lab File ID: P4077439.D

Analysis Method: 8081B | Date Collected: 04/11/2018 11:45

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:41

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	79		10-150
877-09-8	Tetrachloro-m-xylene	68		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077439.D
Lims ID: 460-153774-A-1-C
Client ID: AshPit
Sample Type: Client
Inject. Date: 16-Apr-2018 10:41:49 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.547	1.544	0.003	40048136	100.0	
2	1.398	1.393	0.005	53593366	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.033	2.030	0.003	27082536	67.8	
2	1.720	1.713	0.007	33393336	65.8	
					RPD = 2.92	
$ 24 DCB Decachlorobiphenyl						
1	6.821	6.821	0.000	23272058	78.7	
2	5.724	5.720	0.004	35241411	72.6	
					RPD = 8.10	

Reagents:

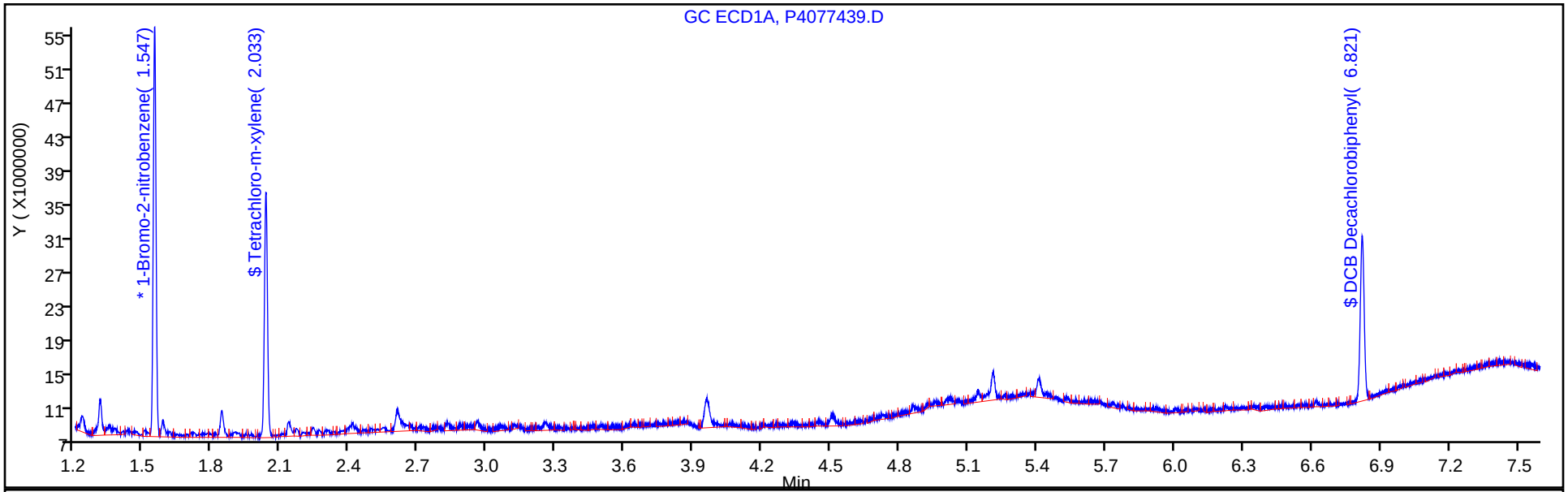
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

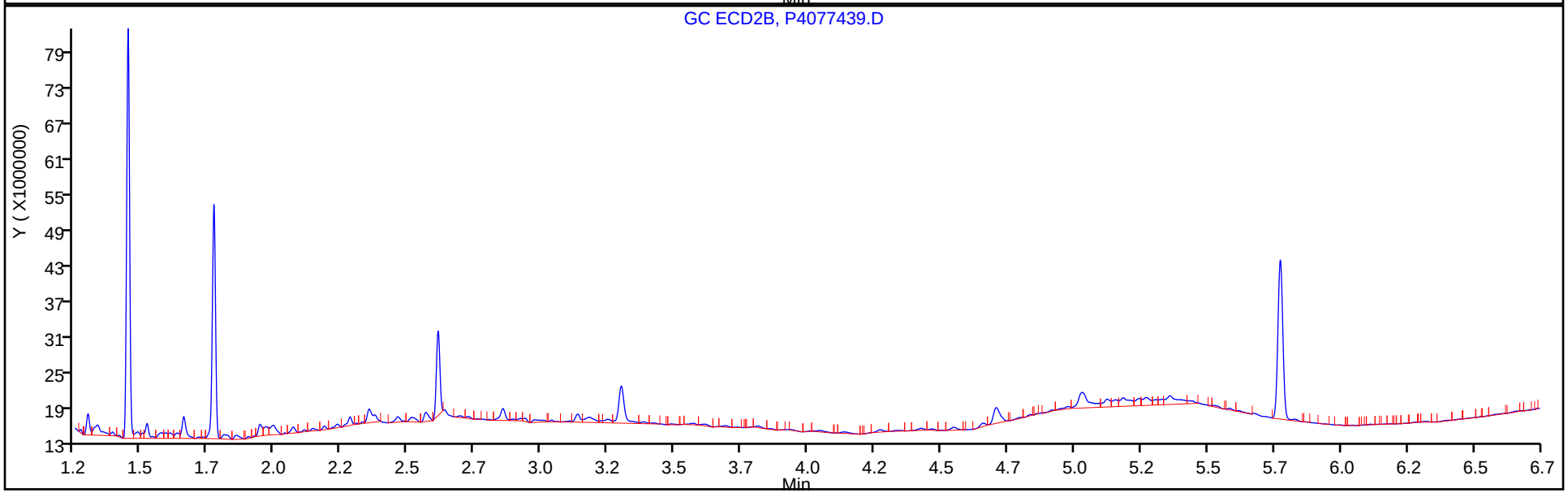
Report Date: 16-Apr-2018 13:27:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077439.D

Injection Date:	16-Apr-2018 10:41:49	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-153774-A-1-C	Lab Sample ID:	460-153774-1	Worklist Smp#:	12
Client ID:	AshPit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: AshPit | Lab Sample ID: 460-153774-1

Matrix: Solid (TCLP) | Lab File ID: P4077439.D

Analysis Method: 8081B | Date Collected: 04/11/2018 11:45

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:41

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12789-03-6	Chlordane (technical)	0.055	U	5.0	0.055
72-20-8	Endrin	0.0040	U	0.50	0.0040
58-89-9	gamma-BHC (Lindane)	0.012	U	0.50	0.012
76-44-8	Heptachlor	0.0030	U	0.50	0.0030
1024-57-3	Heptachlor epoxide	0.0050	U	0.50	0.0050
72-43-5	Methoxychlor	0.0040	U	0.50	0.0040
8001-35-2	Toxaphene	0.11	U	5.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73		10-150
877-09-8	Tetrachloro-m-xylene	66		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077439.D
Lims ID: 460-153774-A-1-C
Client ID: AshPit
Sample Type: Client
Inject. Date: 16-Apr-2018 10:41:49 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene						
1	1.547	1.544	0.003	40048136	100.0	
2	1.398	1.393	0.005	53593366	100.0	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.033	2.030	0.003	27082536	67.8	
2	1.720	1.713	0.007	33393336	65.8	
					RPD = 2.92	
$ 24 DCB Decachlorobiphenyl						
1	6.821	6.821	0.000	23272058	78.7	
2	5.724	5.720	0.004	35241411	72.6	
					RPD = 8.10	

Reagents:

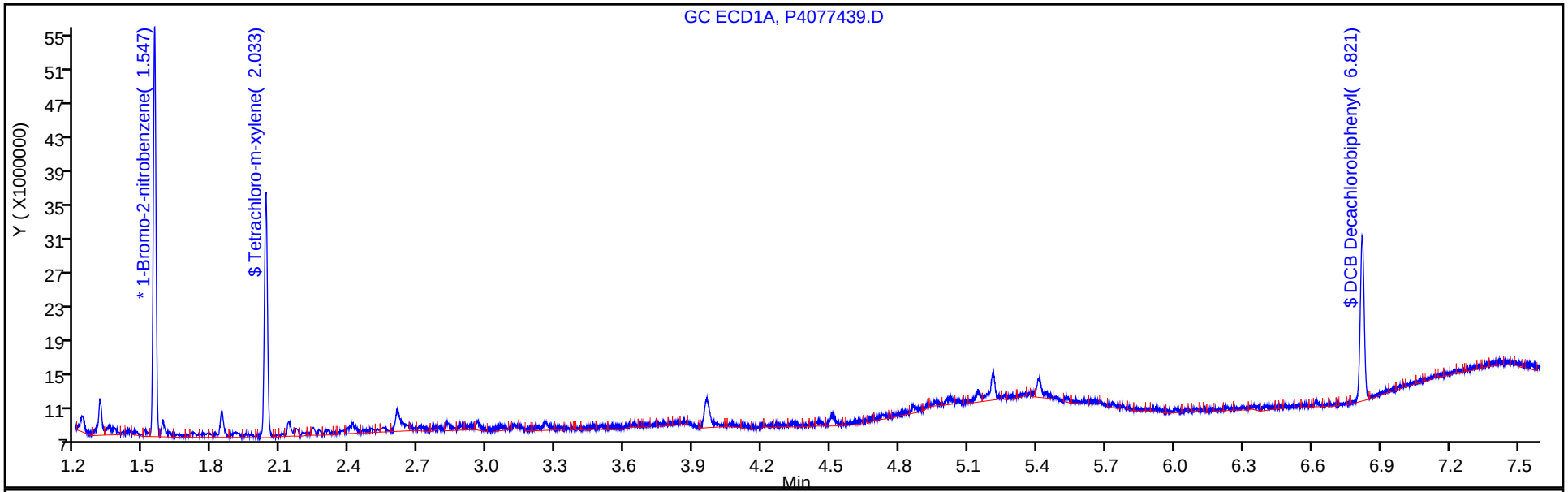
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

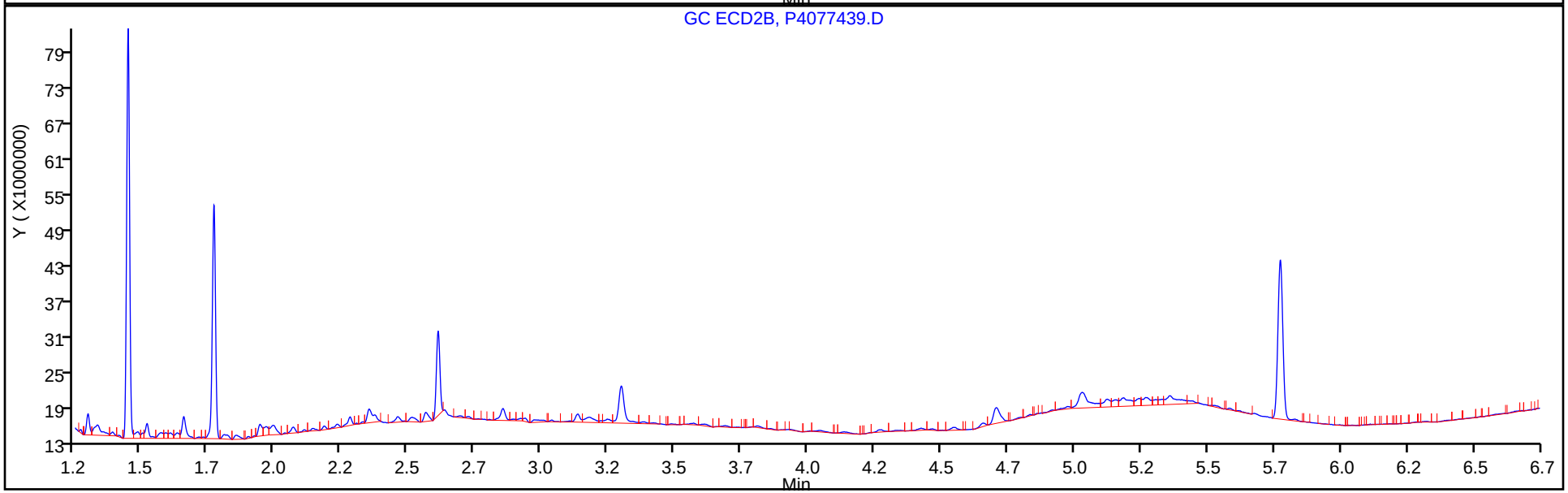
Report Date: 16-Apr-2018 13:27:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077439.D

Injection Date:	16-Apr-2018 10:41:49	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	460-153774-A-1-C	Lab Sample ID:	460-153774-1	Worklist Smp#:	12
Client ID:	AshPit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64207

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.6221	1.4372	1.4287	1.3452	1.3671	Ave		1.4400				7.6		20.0			
gamma-BHC (Lindane)	1.4365	1.3813	1.3434	1.2576	1.2665	Ave		1.3371				5.7		20.0			
beta-BHC	0.6322	0.6328	0.5945	0.5364	0.5234	Ave		0.5839				8.9		20.0			
delta-BHC	1.4960	1.4029	1.3623	1.2721	1.2851	Ave		1.3637				6.7		20.0			
Heptachlor	1.5010	1.3625	1.3162	1.2212	1.2289	Ave		1.3259				8.6		20.0			
Aldrin	1.4626	1.3000	1.2254	1.1301	1.1323	Ave		1.2501				11.1		20.0			
Heptachlor epoxide	1.1444	1.2214	1.1981	1.0665	1.0585	Ave		1.1378				6.5		20.0			
trans-Chlordane	1.2898	1.1610	1.1609	1.0382	1.0419	Ave		1.1383				9.1		20.0			
cis-Chlordane	1.2220	1.0929	1.0931	0.9828	0.9916	Ave		1.0765				9.0		20.0			
Endosulfan I	1.1749	1.0504	1.0657	0.9578	0.9661	Ave		1.0430				8.5		20.0			
4,4'-DDE	1.1212	1.1026	1.1196	1.0080	1.0221	Ave		1.0747				5.1		20.0			
Dieldrin	1.2144	1.1571	1.1764	1.0722	1.0848	Ave		1.1410				5.3		20.0			
Endrin	1.0699	1.0137	1.0489	0.9556	0.9594	Ave		1.0095				5.1		20.0			
4,4'-DDD	0.9353	0.8924	0.9521	0.8579	0.8601	Ave		0.8996				4.8		20.0			
Endosulfan II	1.0308	0.9677	1.0341	0.9204	0.9115	Ave		0.9729				6.0		20.0			
4,4'-DDT	0.9686	0.9523	1.0174	0.9076	0.9081	Ave		0.9508				4.8		20.0			
Endrin aldehyde	0.8480	0.8173	0.8984	0.7718	0.7571	Ave		0.8185				7.0		20.0			
Endosulfan sulfate	1.0157	0.9488	0.9832	0.8794	0.8707	Ave		0.9396				6.8		20.0			
Methoxychlor	0.5455	0.5386	0.5412	0.4886	0.4806	Ave		0.5189				6.1		20.0			
Mirex	0.7210	0.6424	0.6611	0.6566	0.6425	Ave		0.6647				4.9		20.0			
Endrin ketone	1.1286	1.0777	1.0782	0.9994	1.0082	Ave		1.0584				5.1		20.0			
Tetrachloro-m-xylene	0.9680	0.9822	0.9998	1.0237	1.0156	Ave		0.9979				2.3		20.0			
DCB Decachlorobiphenyl	0.6327	0.7510	0.7565	0.7817	0.7692	Ave		0.7382				8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64207

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	1291740	22273426	44917872	95133296	196927550	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	1143940	21406764	42238244	88938478	182445699	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	503444	9807394	18689999	37933647	75403540	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	1191307	21741221	42830724	89965643	185126474	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	1195306	21115027	41381412	86364255	177024434	2.50	50.0	100	250	500
Aldrin	BNB	Ave	1164753	20146283	38526393	79920244	163104958	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	911326	18929078	37669401	75424009	152479122	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	1027152	17992167	36499048	73419330	150086696	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	973142	16937472	34366860	69503361	142847352	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	935618	16278318	33506968	67737216	139163926	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	892866	17087976	35199730	71287260	147238748	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	967073	17932440	36985897	75827707	156273747	2.50	50.0	100	250	500
Endrin	BNB	Ave	852038	15709414	32977577	67577298	138200668	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	744819	13829574	29934272	60672774	123895825	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	820853	14997308	32512750	65092408	131298067	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	771321	14759027	31987959	64186095	130809930	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	675307	12666436	28247674	54582165	109066149	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	808856	14704500	30913060	62190154	125420628	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	434392	8347253	17015761	34556840	69228051	2.50	50.0	100	250	500
Mirex	BNB	Ave	574199	9955340	20783921	46437684	92553381	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	898789	16702227	33900608	70677969	145234779	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	1927219	15222511	31435133	43436997	58517789	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	1259714	11638272	23785382	33167313	44320427	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 08:22:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:32:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.679	0.006	31853746	100.0	100.0	
2	1.512	1.513	-0.001	42073150	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							M
1	2.239	2.230	0.009	1927219	6.25	6.06	M
2	1.886	1.885	0.001	2073728	6.25	5.21	M
						RPD = 15.21	
15 alpha-BHC							M
1	2.659	2.651	0.008	1291740	2.50	2.82	M
2	2.208	2.208	0.000	1445319	2.50	2.49	M
						RPD = 12.18	
2 gamma-BHC (Lindane)							M
1	2.930	2.918	0.012	1143940	2.50	2.69	M
2	2.402	2.400	0.002	1348560	2.50	2.55	M
						RPD = 5.31	
6 beta-BHC							M
1	2.982	2.967	0.015	503444	2.50	2.71	M
2	2.450	2.447	0.003	630309	2.50	2.75	M
						RPD = 1.48	
32 delta-BHC							M
1	3.231	3.218	0.013	1191307	2.50	2.74	M
2	2.565	2.563	0.002	1332138	2.50	2.52	M
						RPD = 8.47	
18 Heptachlor							M
1	3.307	3.294	0.013	1195306	2.50	2.83	M
2	2.700	2.698	0.002	1395704	2.50	2.69	M
						RPD = 5.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.615	3.603	0.012	1164753	2.50	2.93	M
2	2.907	2.905	0.002	1383561	2.50	2.88	M
						RPD = 1.66	
12 Heptachlor epoxide							M
1	4.227	4.208	0.019	911326	2.50	2.51	M
2	3.363	3.359	0.004	1270694	2.50	2.80	M
						RPD = 10.83	
9 gamma-Chlordane							M
1	4.432	4.418	0.014	1027152	2.50	2.83	M
2	3.466	3.462	0.004	1245826	2.50	2.76	M
						RPD = 2.44	
23 alpha-Chlordane							M
1	4.594	4.578	0.016	973142	2.50	2.84	M
2	3.581	3.577	0.004	1245737	2.50	2.84	M
						RPD = 0.18	
7 Endosulfan I							M
1	4.661	4.648	0.013	935618	2.50	2.82	a
2	3.714	3.709	0.005	1182813	2.50	2.77	M
						RPD = 1.81	
25 4,4'-DDE							M
1	4.733	4.722	0.011	892866	2.50	2.61	M
2	3.637	3.632	0.005	1142514	2.50	2.63	M
						RPD = 0.72	
30 Dieldrin							M
1	4.897	4.886	0.011	967073	2.50	2.66	M
2	3.950	3.943	0.007	1218459	2.50	2.58	
						RPD = 3.11	
20 Endrin							M
1	5.120	5.110	0.010	852038	2.50	2.65	M
2	4.202	4.198	0.004	1176601	2.50	2.69	M
						RPD = 1.61	
16 4,4'-DDD							M
1	5.174	5.165	0.009	744819	2.50	2.60	
2	4.259	4.253	0.006	977082	2.50	2.58	M
						RPD = 0.91	
11 Endosulfan II							M
1	5.261	5.253	0.008	820853	2.50	2.65	M
2	4.442	4.437	0.005	1086632	2.50	2.63	M
						RPD = 0.60	
21 4,4'-DDT							M
1	5.389	5.380	0.009	771321	2.50	2.55	M
2	4.560	4.555	0.005	953977	2.50	2.42	
						RPD = 4.90	
5 Endrin aldehyde							M
1	5.489	5.480	0.009	675307	2.50	2.59	M
2	4.838	4.834	0.004	848959	2.50	2.47	M
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.700	5.692	0.008	808856	2.50	2.70	
2	5.146	5.142	0.004	1101769	2.50	2.62	M
						RPD = 3.22	
10 Methoxychlor							M
1	5.939	5.927	0.012	434392	2.50	2.63	M
2	4.972	4.968	0.004	585719	2.50	2.66	M
						RPD = 1.12	
34 Mirex							M
1	6.141	6.133	0.008	574199	2.50	2.71	M
2	5.067	5.063	0.004	810826	2.50	2.68	M
						RPD = 1.09	
13 Endrin ketone							M
1	6.177	6.167	0.010	898789	2.50	2.67	M
2	5.326	5.323	0.003	1235923	2.50	2.60	M
						RPD = 2.68	
$ 24 DCB Decachlorobiphenyl							M
1	7.099	7.092	0.007	1259714	6.25	5.36	M
2	6.122	6.116	0.006	2027199	6.25	5.32	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

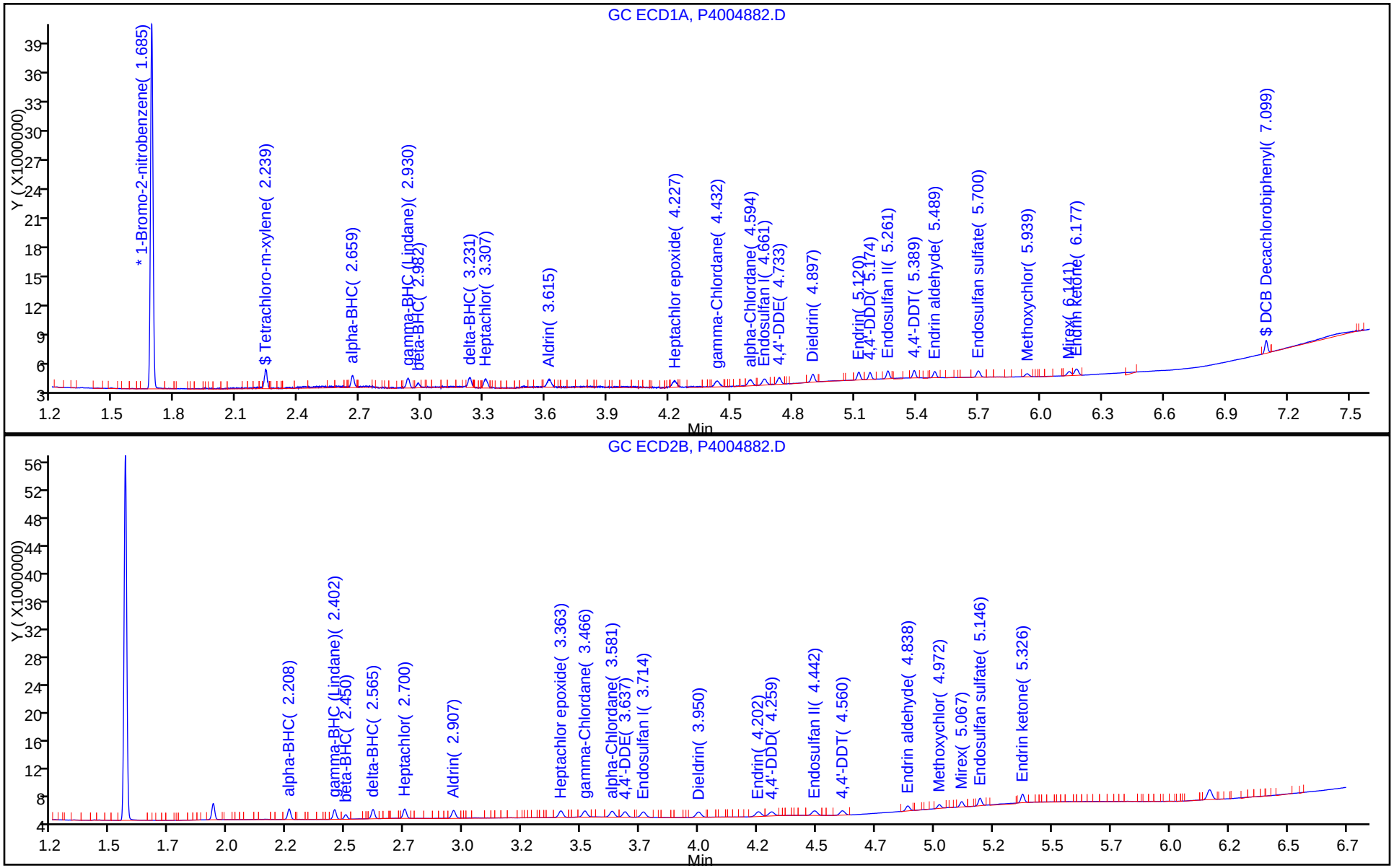
SGPEST-L1_00008	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

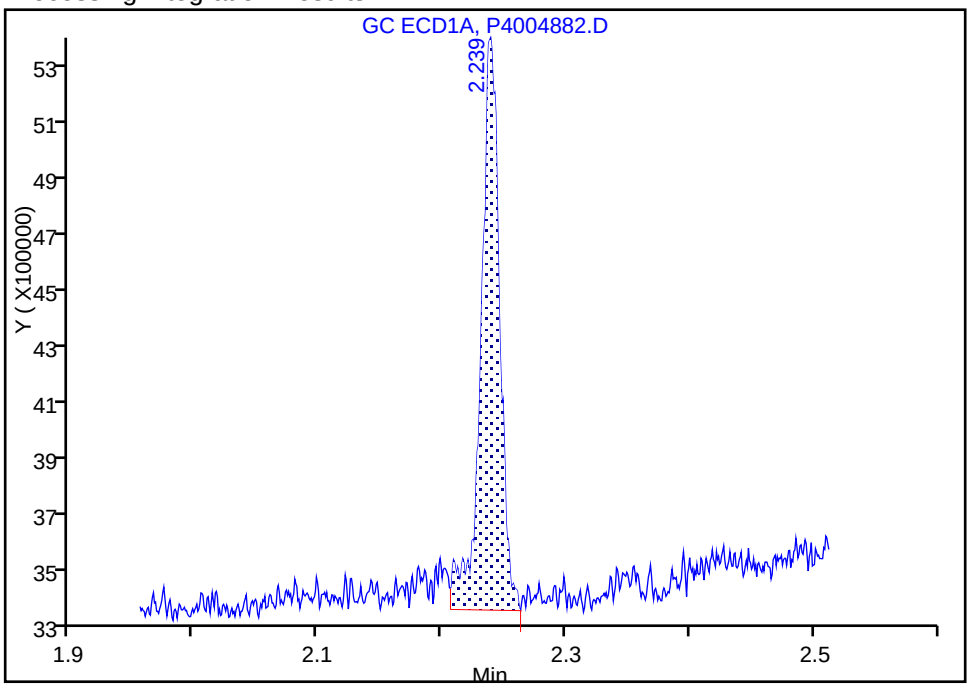
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

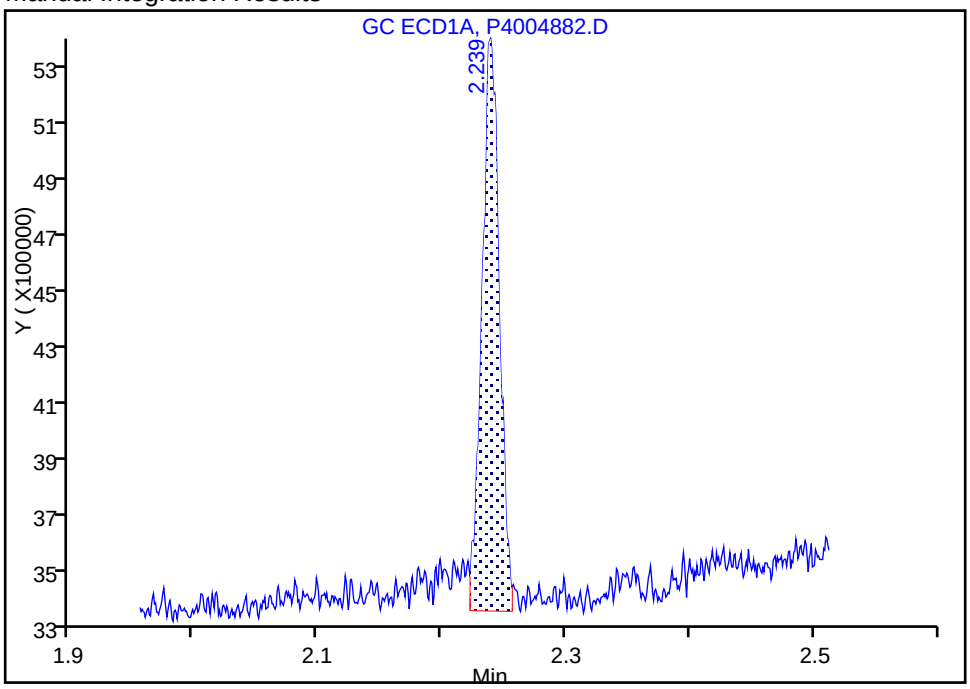
Processing Integration Results

RT: 2.24
Area: 2081082
Amount: 6.447305
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 1927219
Amount: 6.063114
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:33

Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

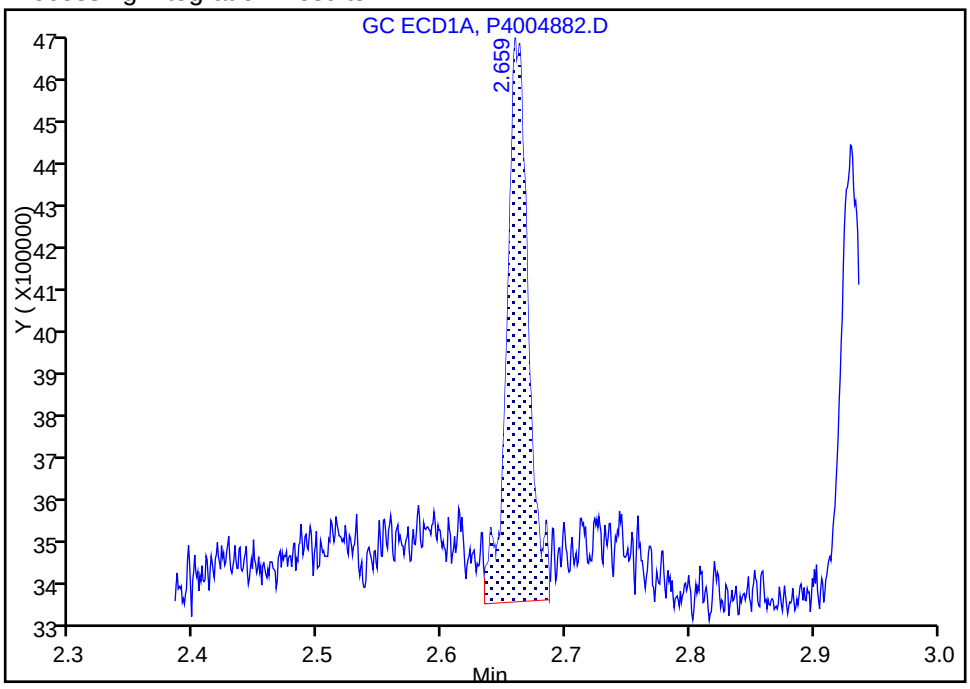
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

15 alpha-BHC, CAS: 319-84-6

Signal: 1

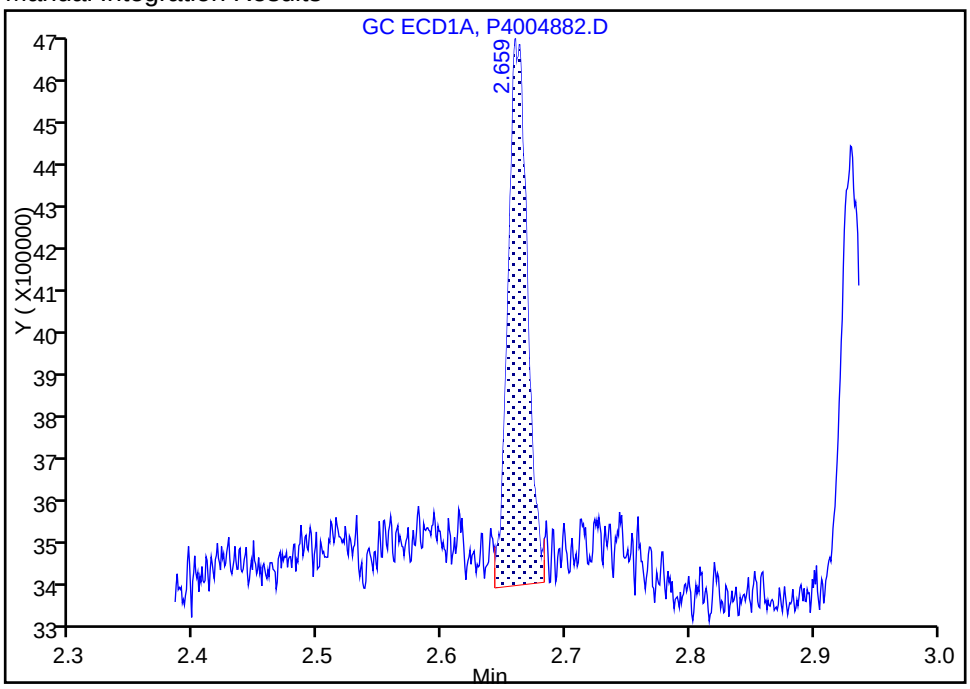
Processing Integration Results

RT: 2.66
Area: 1471513
Amount: 3.110426
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 1291740
Amount: 2.816036
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:00
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

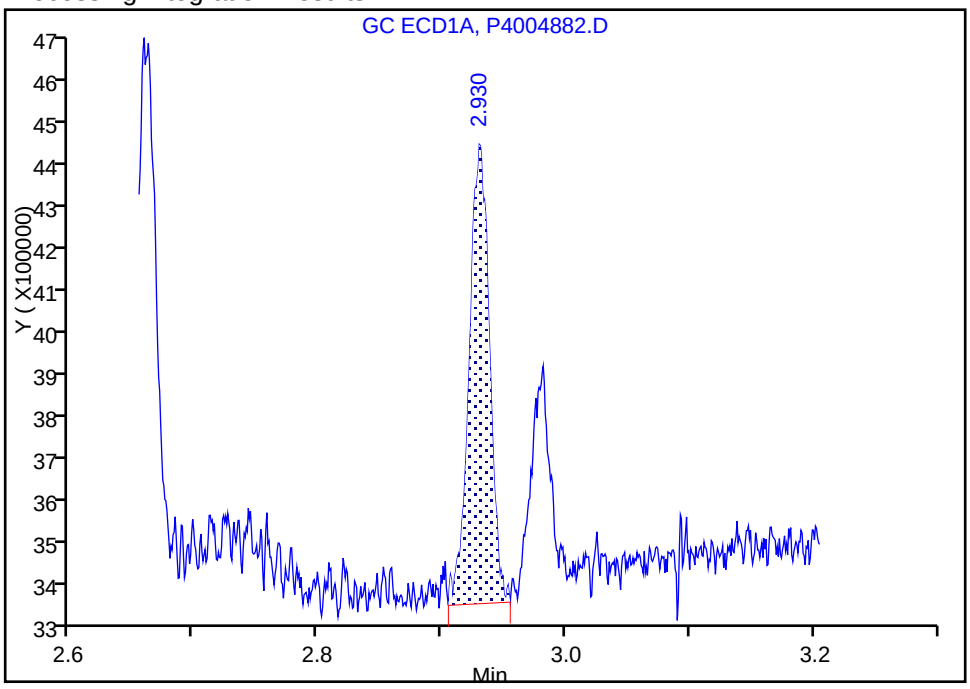
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 1

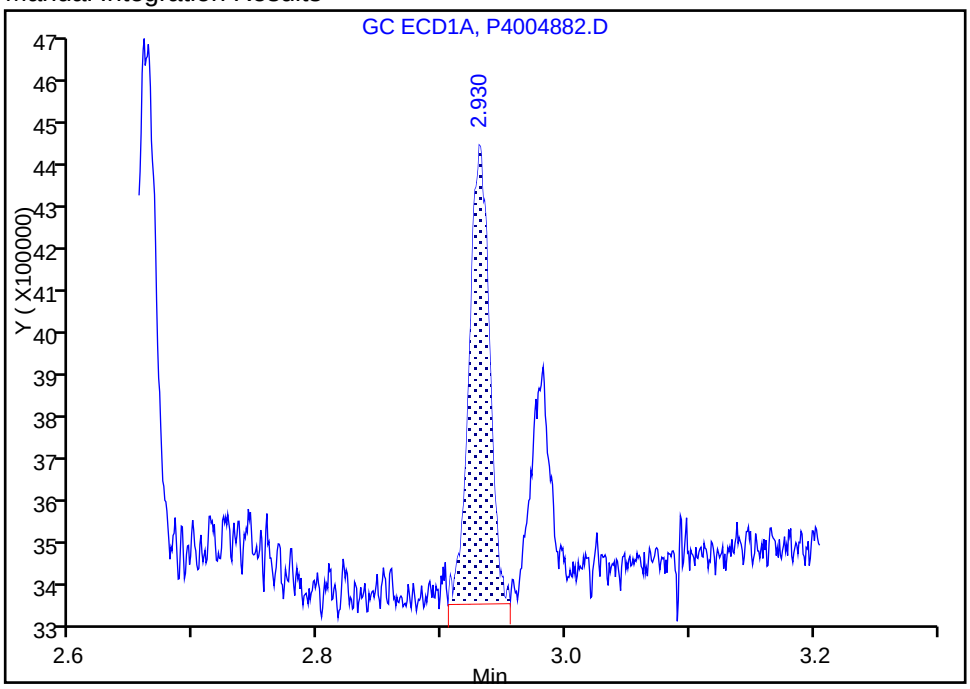
Processing Integration Results

RT: 2.93
Area: 1147300
Amount: 2.692081
Amount Units: ug/l



Manual Integration Results

RT: 2.93
Area: 1143940
Amount: 2.685891
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:21
Audit Action: Assigned New Baseline Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

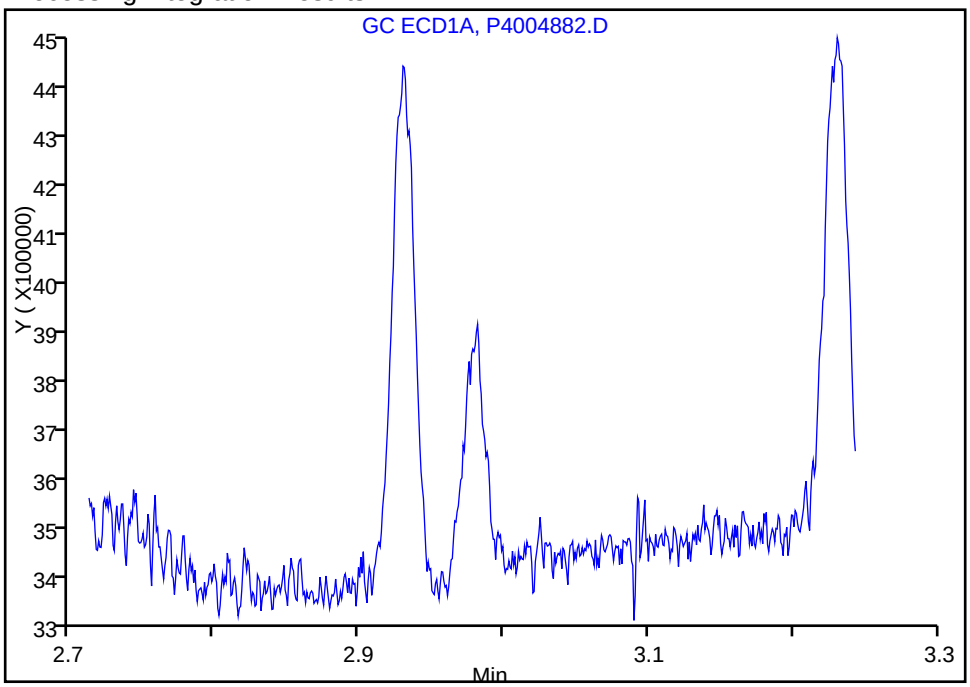
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

Signal: 1

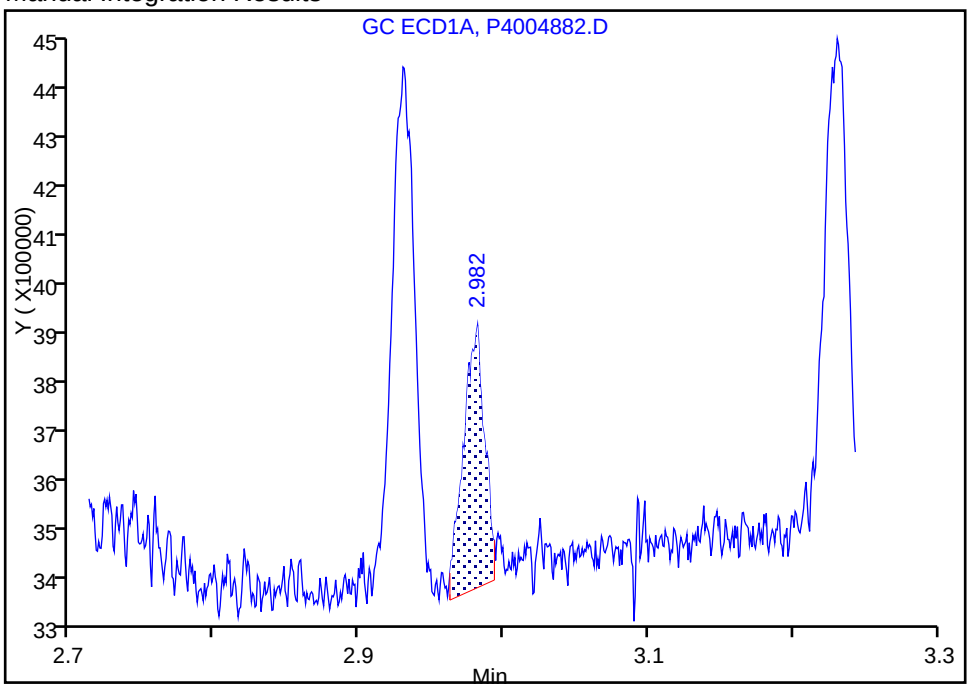
Not Detected
Expected RT: 2.97

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 503444
Amount: 2.706943
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:36
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

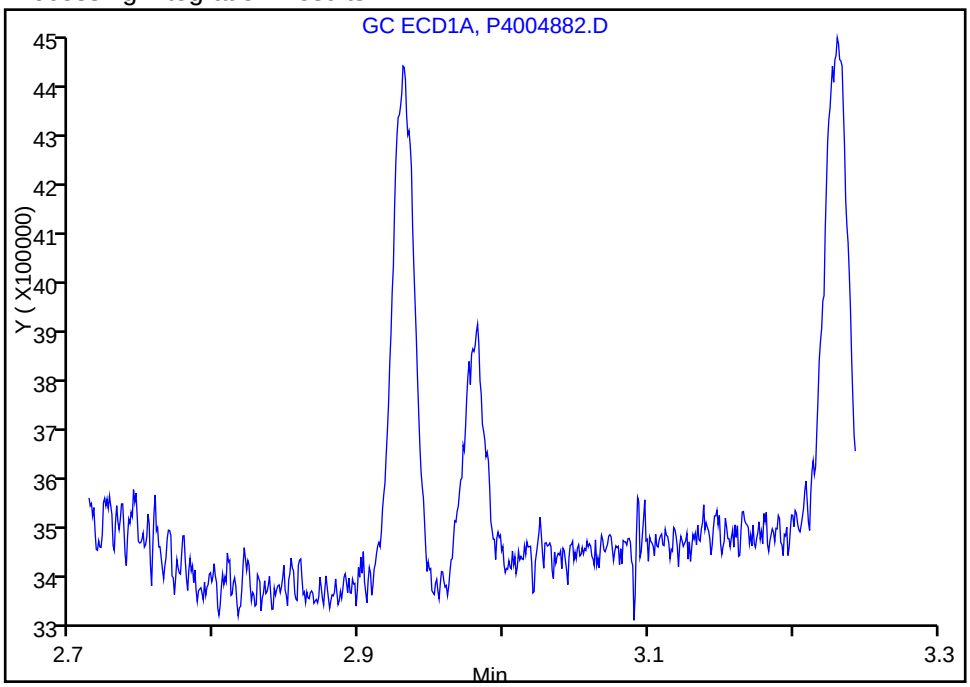
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

Signal: 1

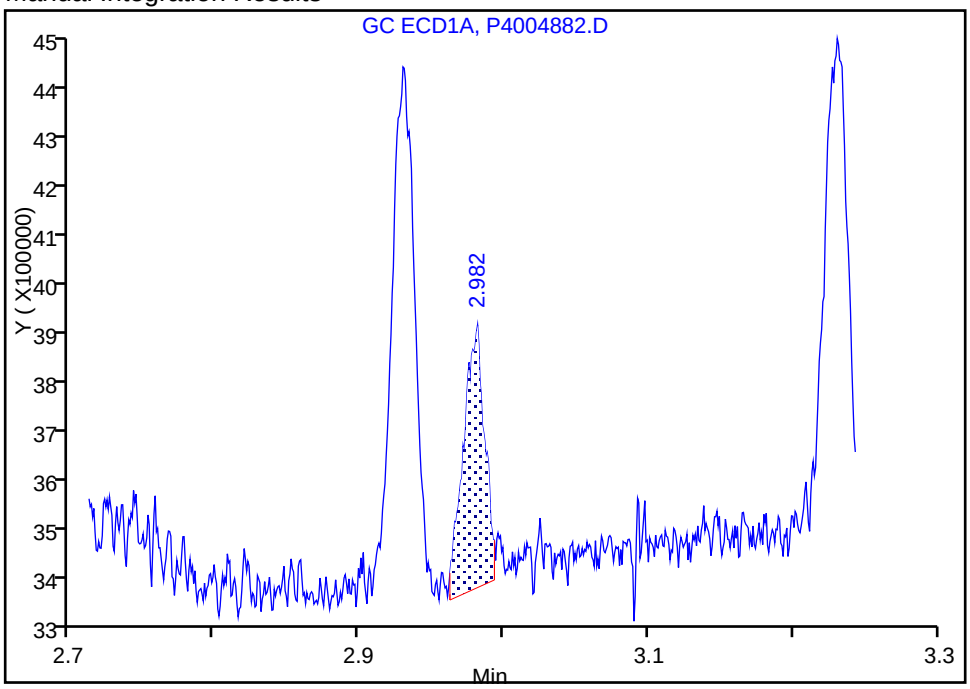
Not Detected
Expected RT: 2.97

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 503444
Amount: 2.706943
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:49:06
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

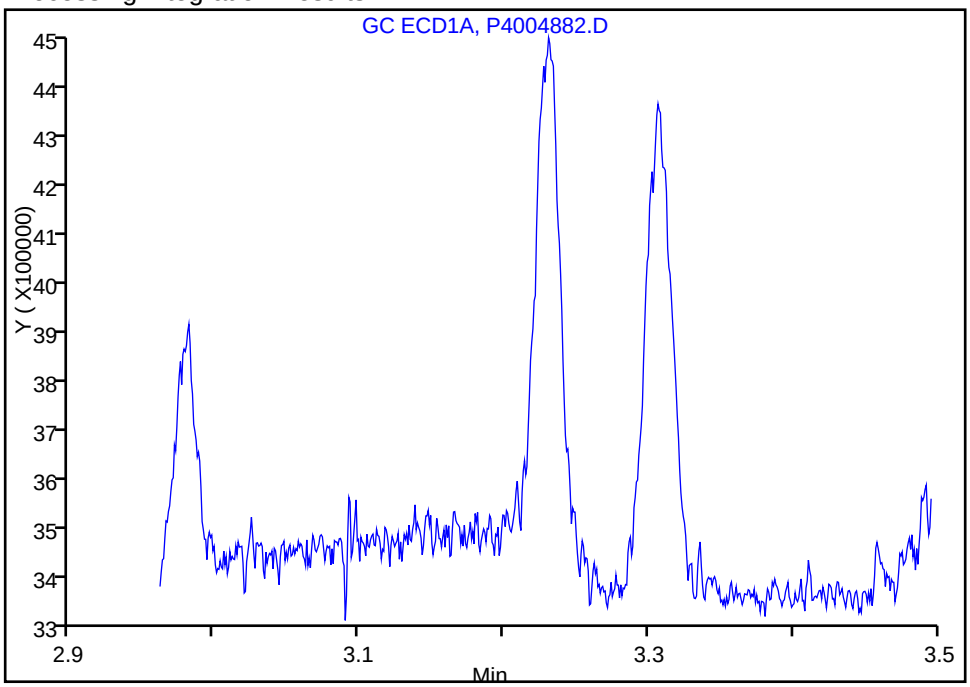
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

32 delta-BHC, CAS: 319-86-8

Signal: 1

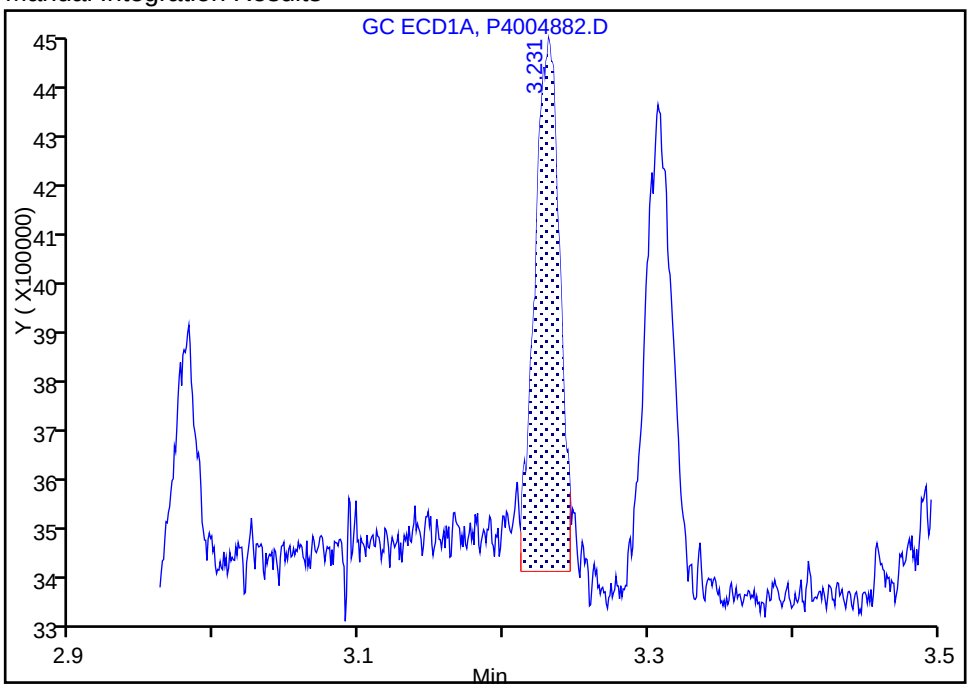
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 1191307
Amount: 2.742528
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

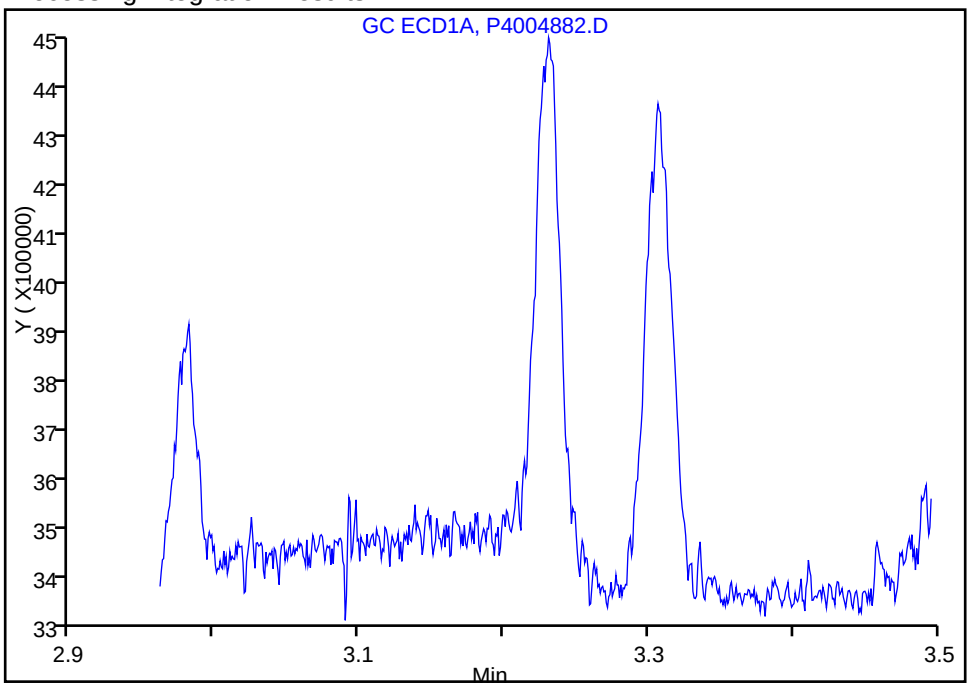
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

32 delta-BHC, CAS: 319-86-8

Signal: 1

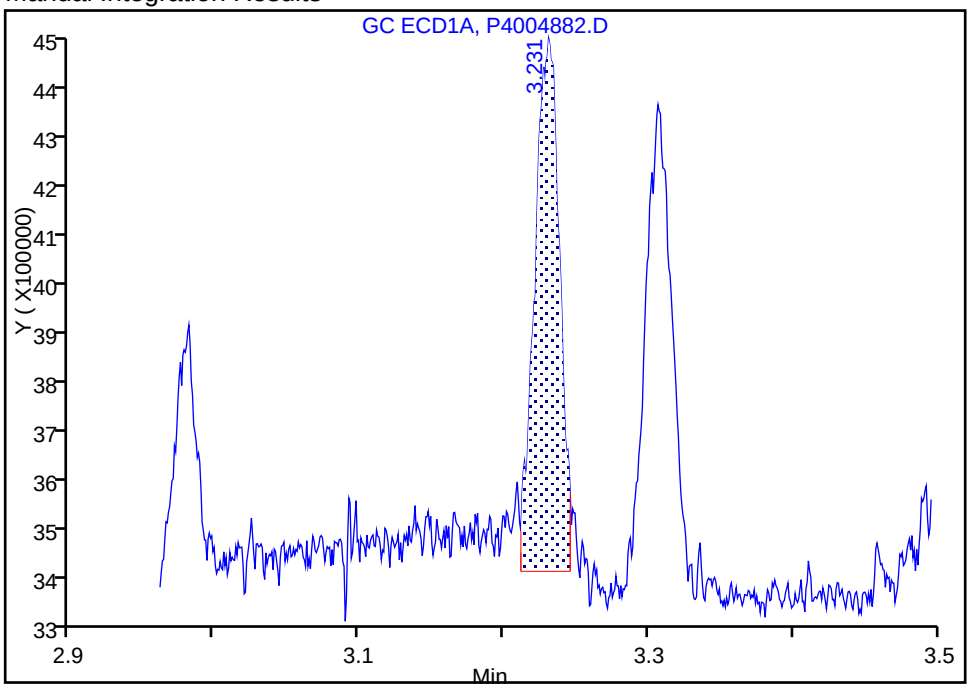
Not Detected
Expected RT: 3.22

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 1191307
Amount: 2.742528
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:50:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

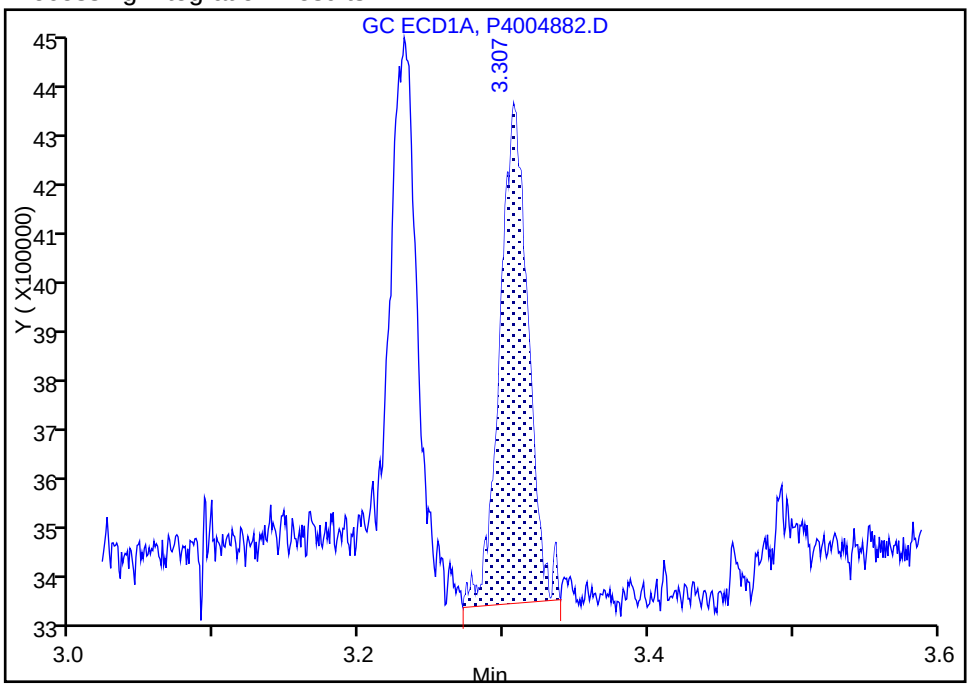
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

18 Heptachlor, CAS: 76-44-8

Signal: 1

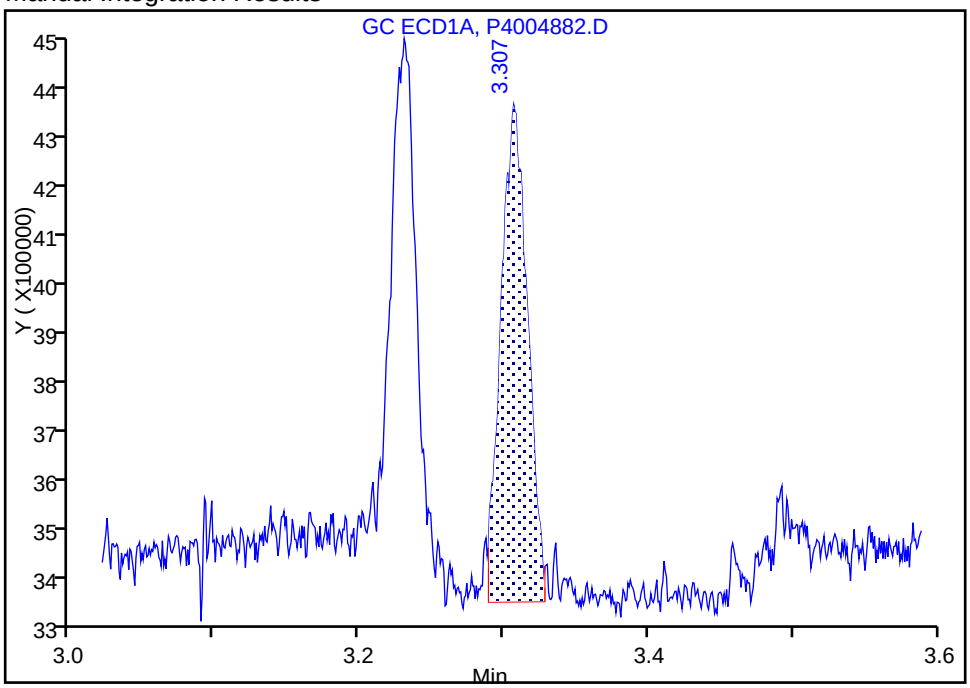
Processing Integration Results

RT: 3.31
Area: 1284921
Amount: 2.991433
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 1195306
Amount: 2.830035
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:31

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

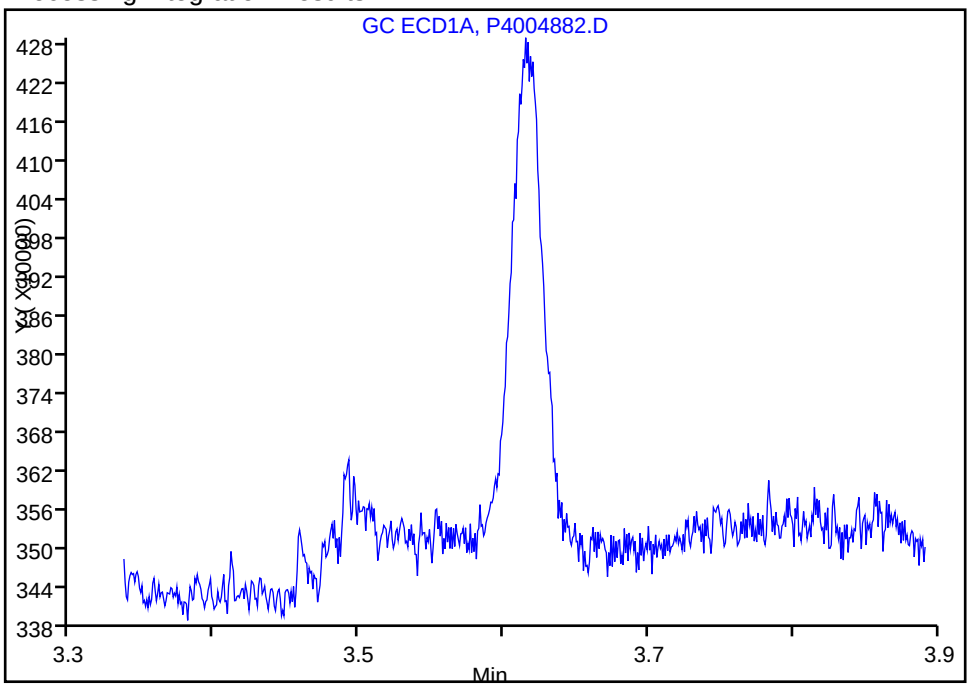
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

8 Aldrin, CAS: 309-00-2

Signal: 1

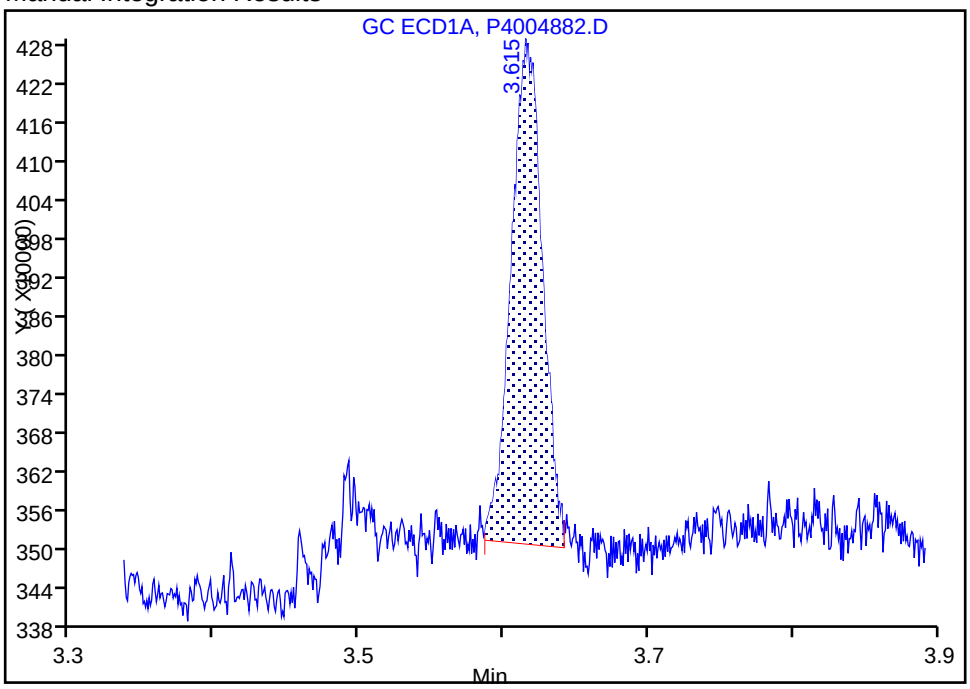
Not Detected
Expected RT: 3.60

Processing Integration Results



Manual Integration Results

RT: 3.61
Area: 1164753
Amount: 2.925105
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

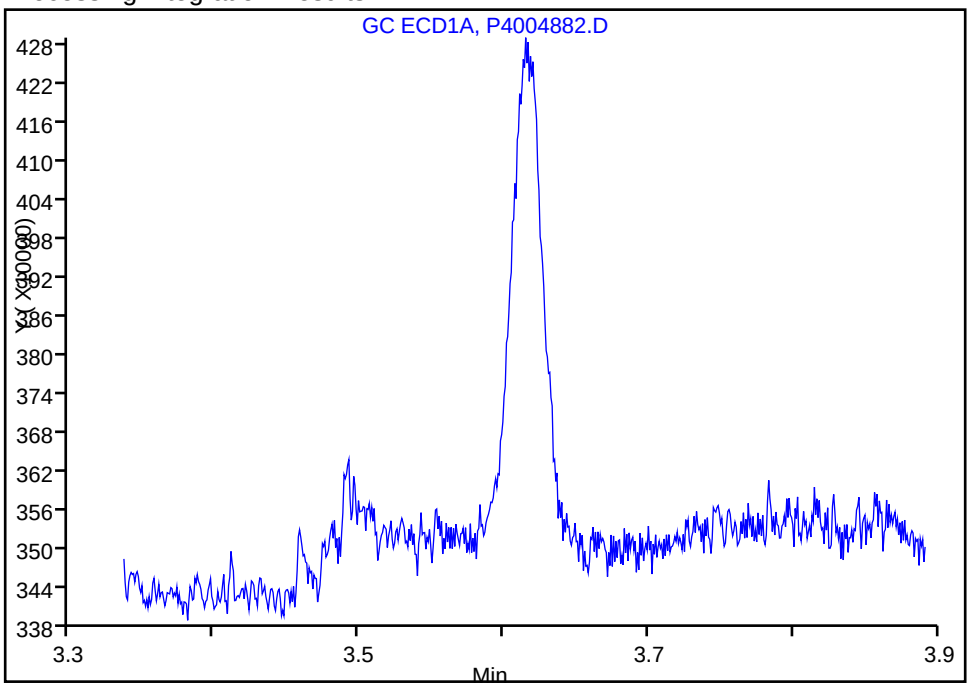
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

8 Aldrin, CAS: 309-00-2

Signal: 1

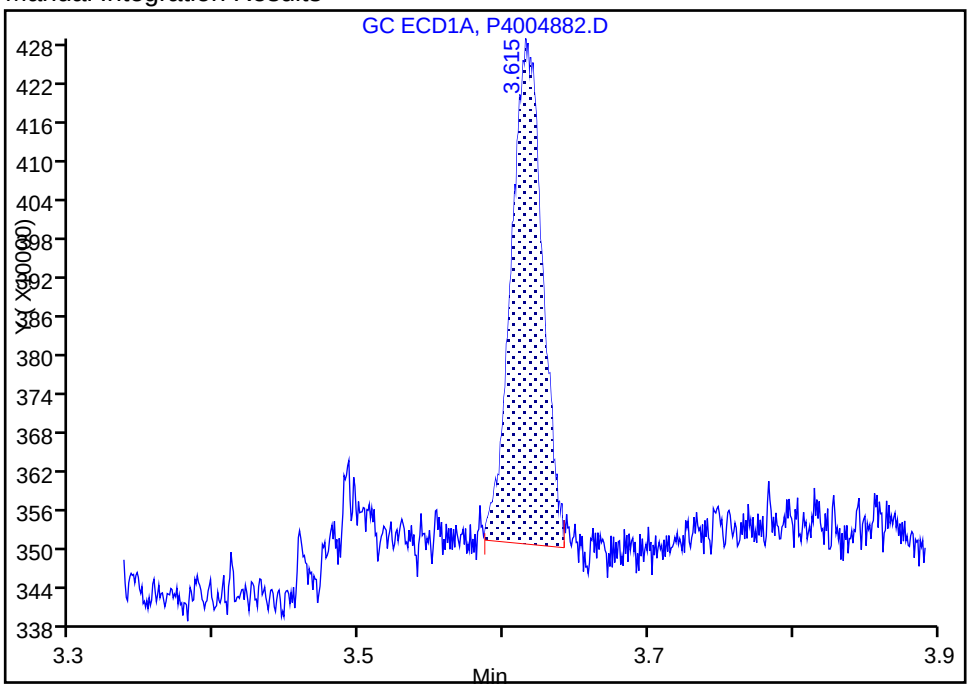
Not Detected
Expected RT: 3.60

Processing Integration Results



Manual Integration Results

RT: 3.61
Area: 1164753
Amount: 2.925105
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 11:15:40
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

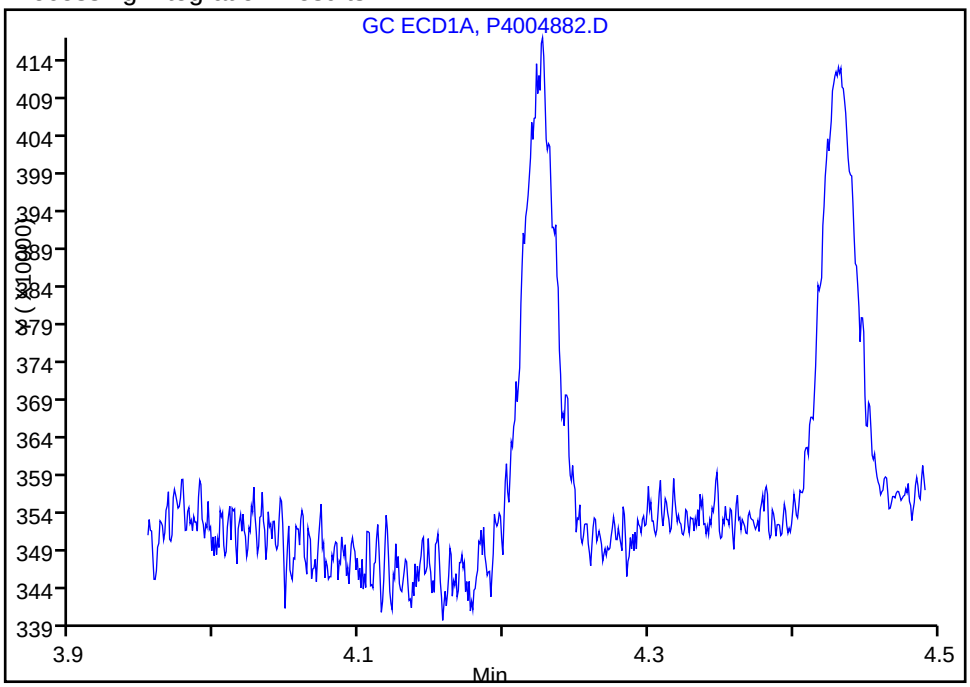
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

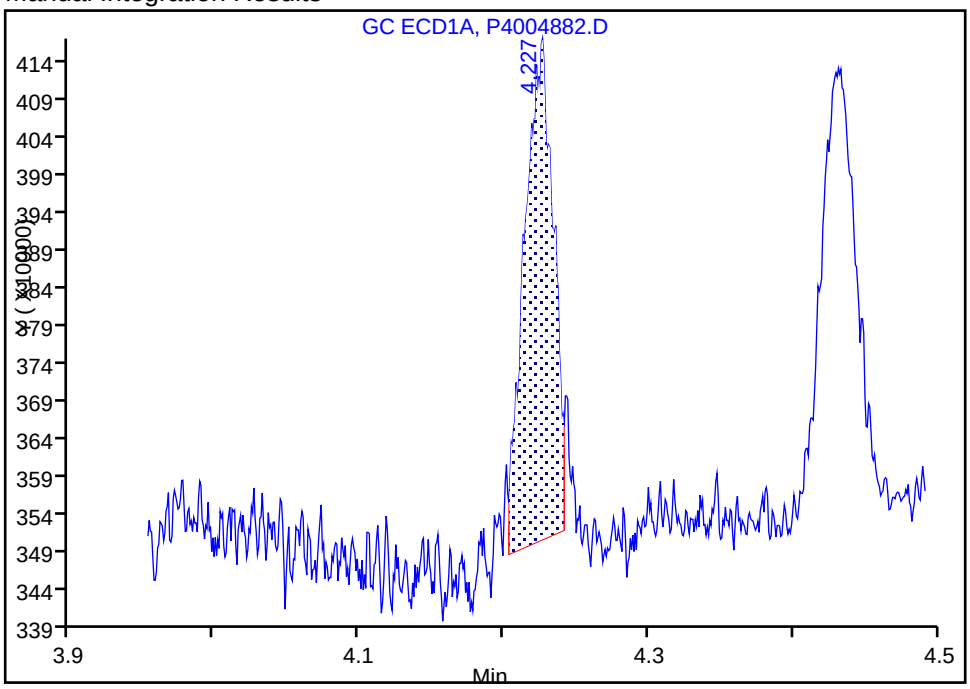
Not Detected
Expected RT: 4.21

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 911326
Amount: 2.514504
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:28
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

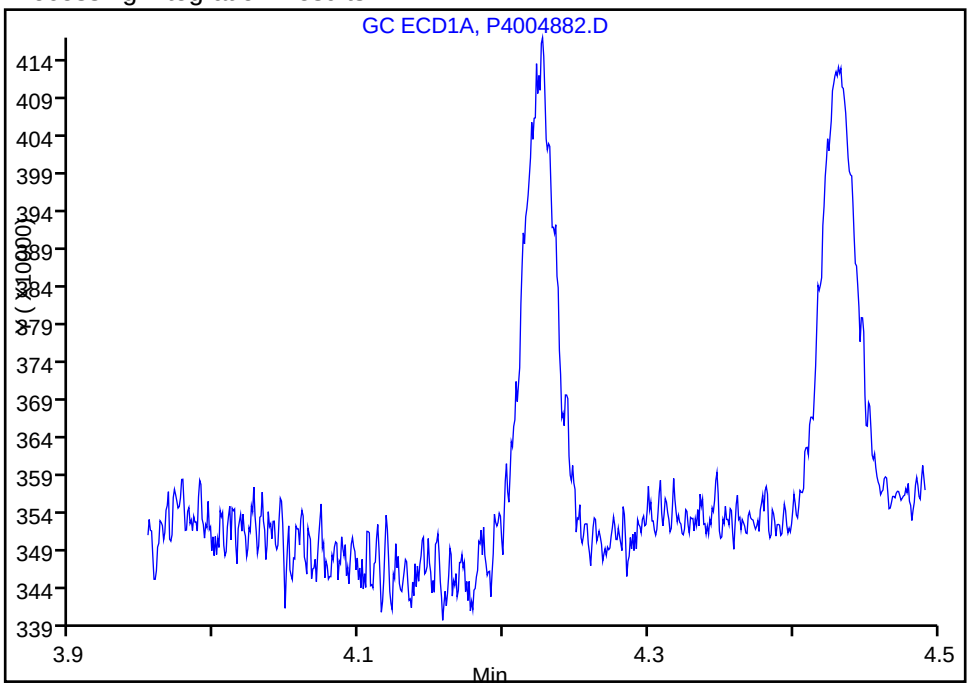
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

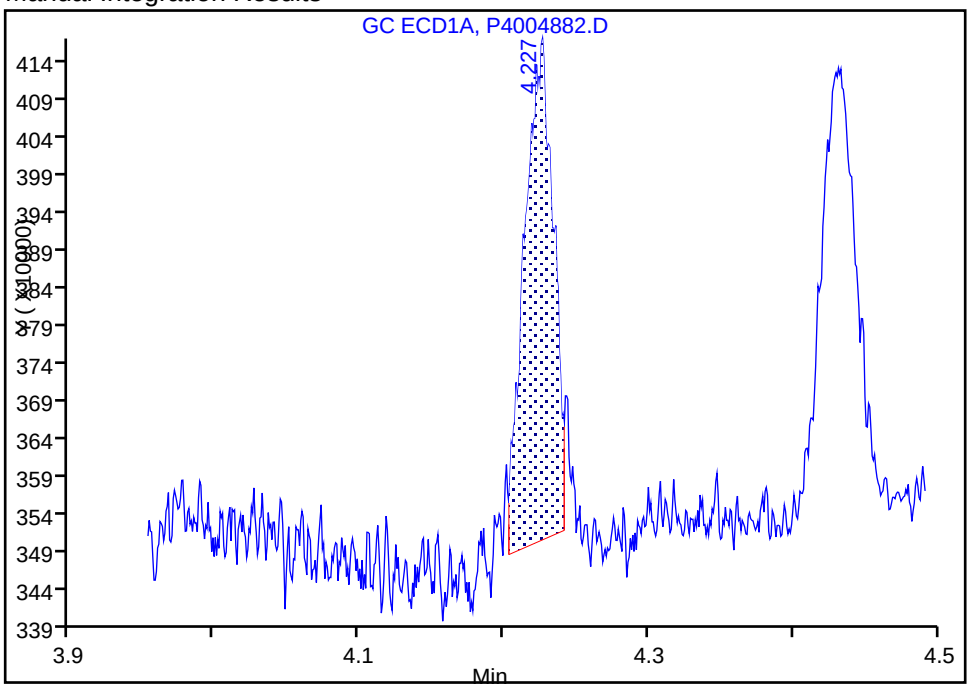
Processing Integration Results

Not Detected
Expected RT: 4.21



Manual Integration Results

RT: 4.23
Area: 911326
Amount: 2.514504
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:04:15
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

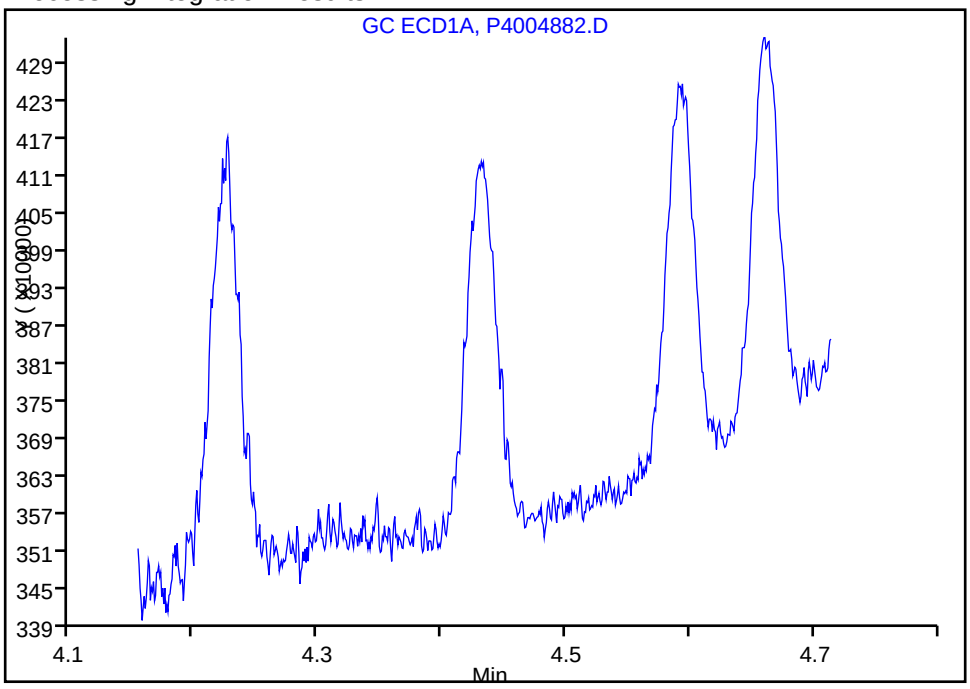
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

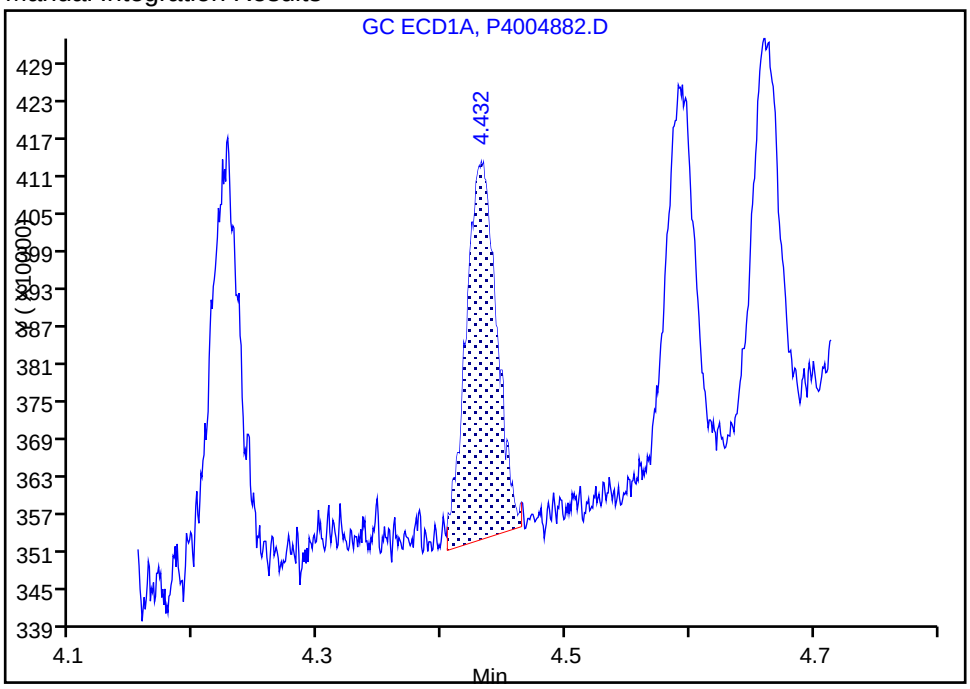
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 1027152
Amount: 2.832687
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:44
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

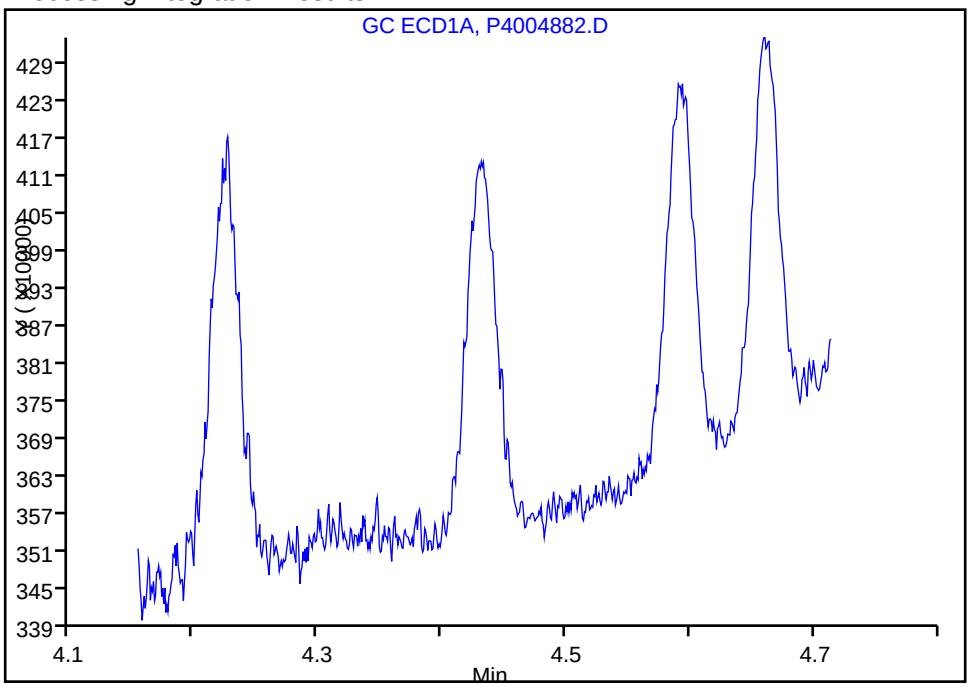
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

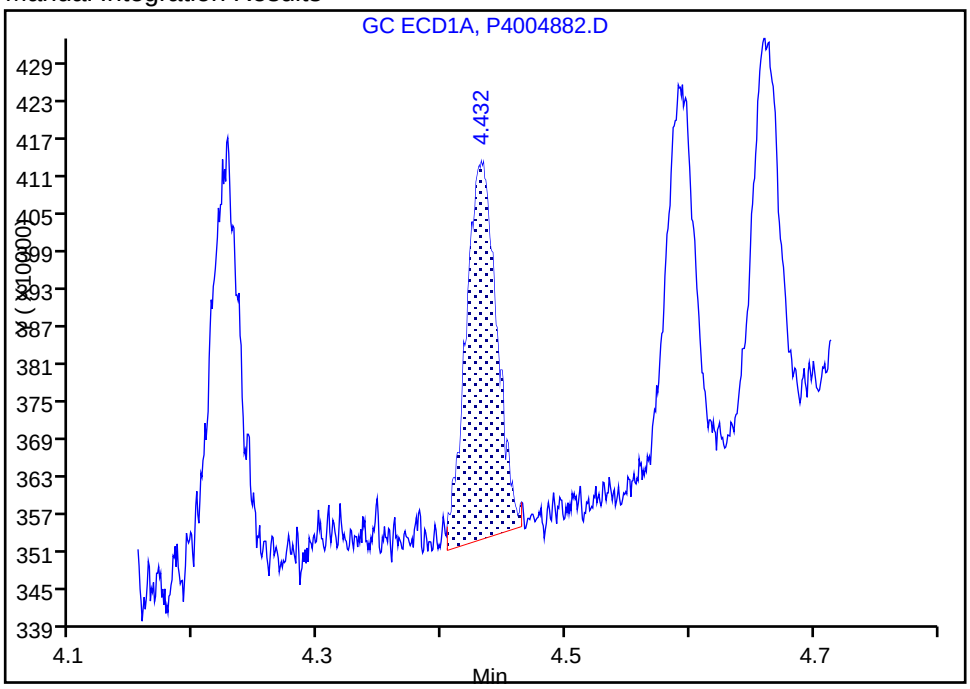
Processing Integration Results

Not Detected
Expected RT: 4.42



Manual Integration Results

RT: 4.43
Area: 1027152
Amount: 2.832687
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:05:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

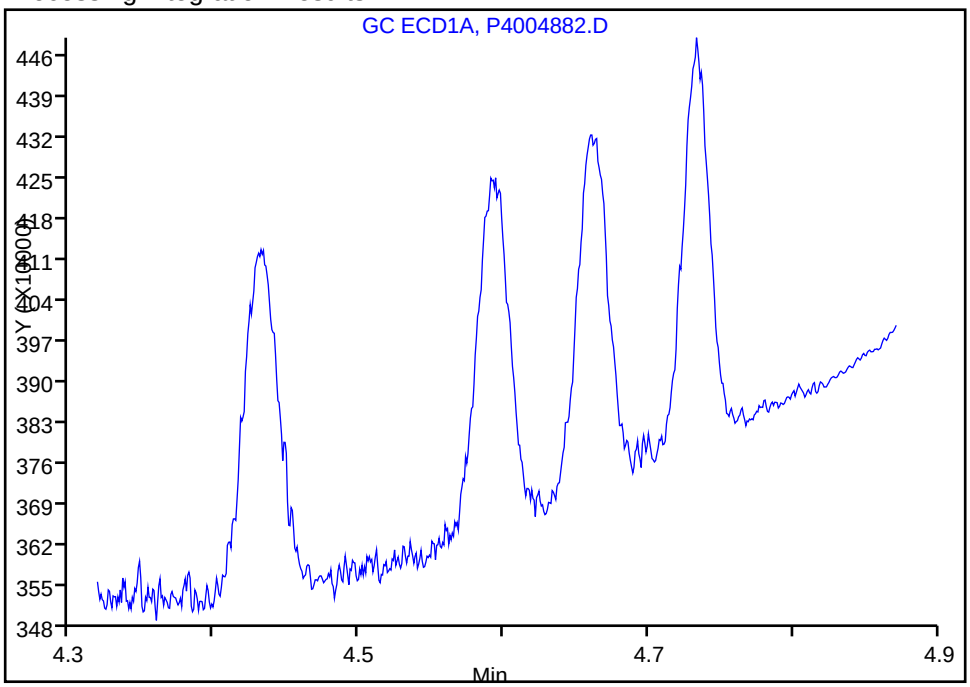
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

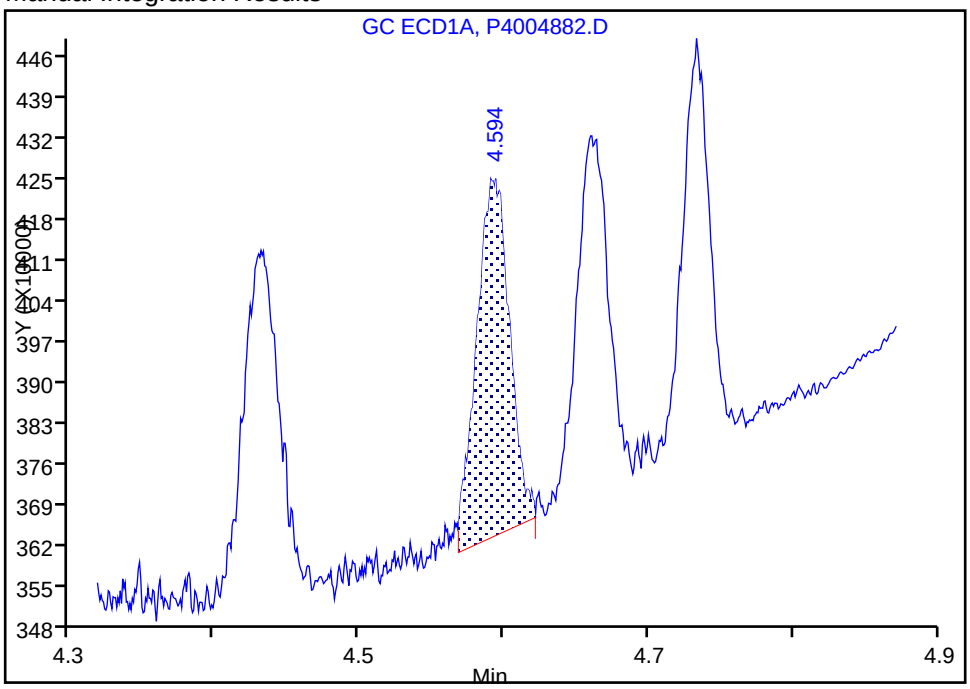
Processing Integration Results

Not Detected
Expected RT: 4.58



Manual Integration Results

RT: 4.59
Area: 973142
Amount: 2.837969
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:56
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

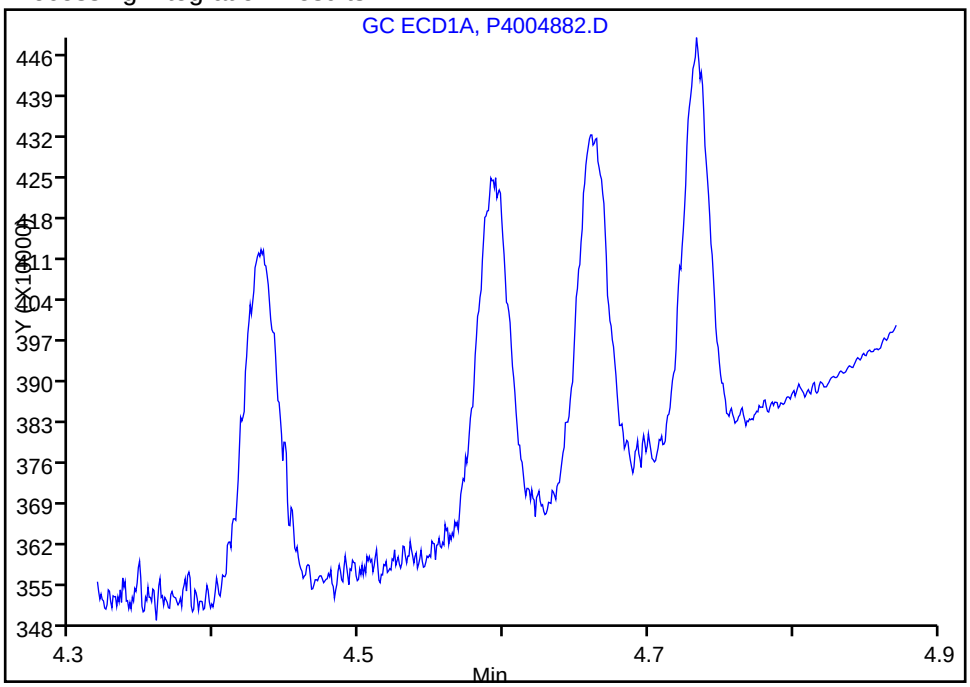
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

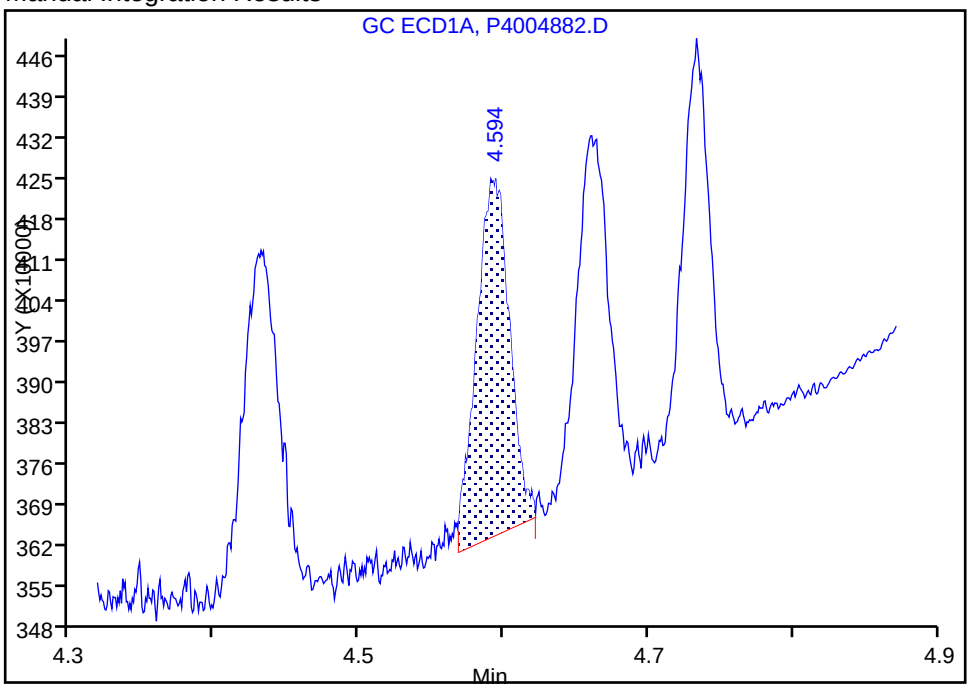
Processing Integration Results

Not Detected
Expected RT: 4.58



Manual Integration Results

RT: 4.59
Area: 973142
Amount: 2.837969
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:46:57
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

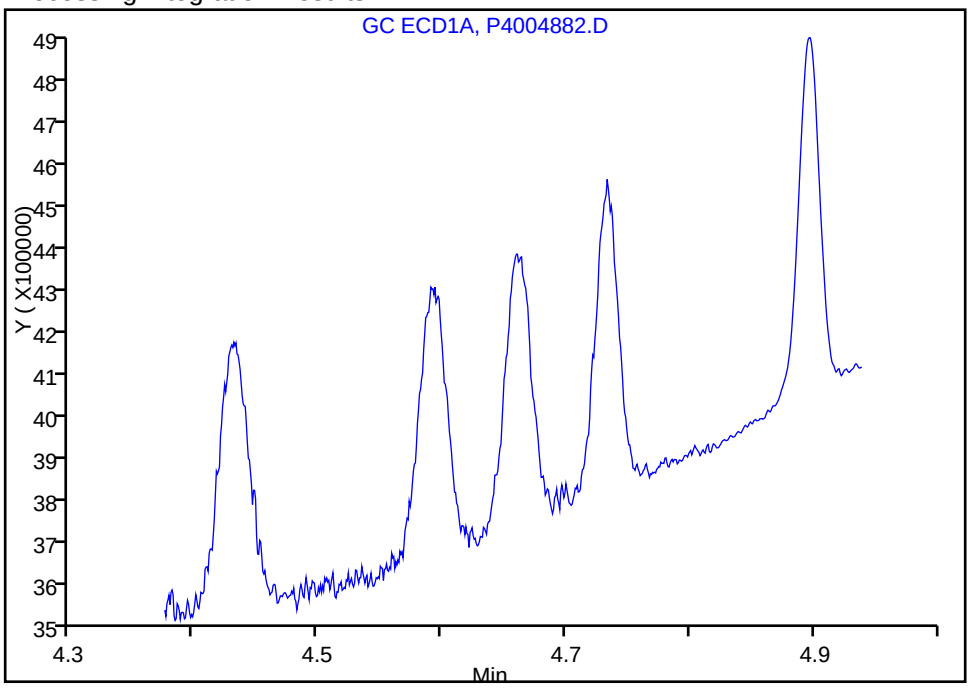
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

7 Endosulfan I, CAS: 959-98-8

Signal: 1

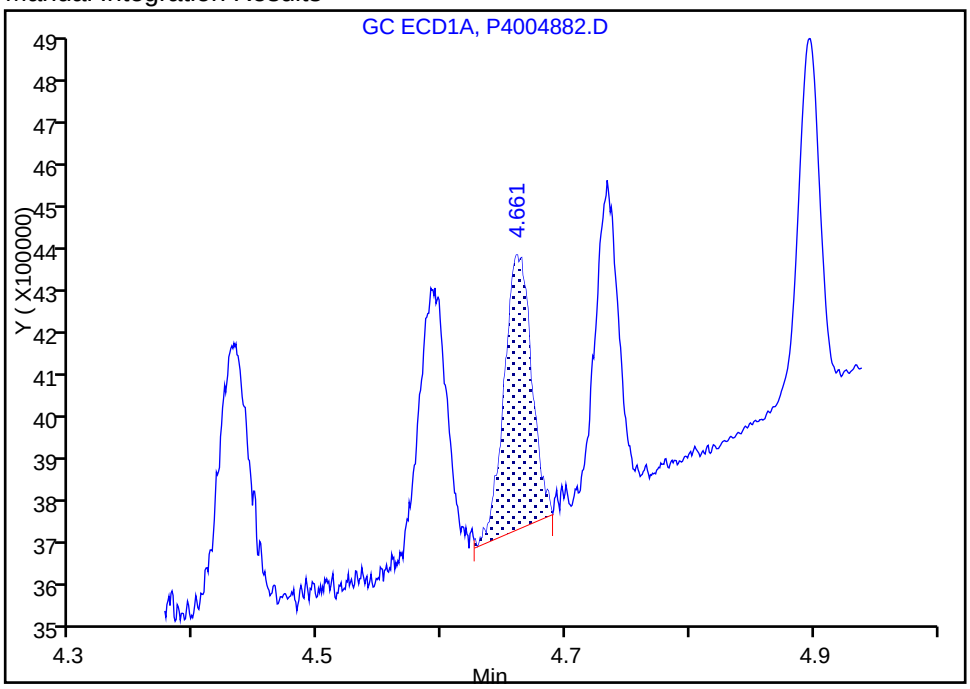
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 935618
Amount: 2.816202
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:07
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

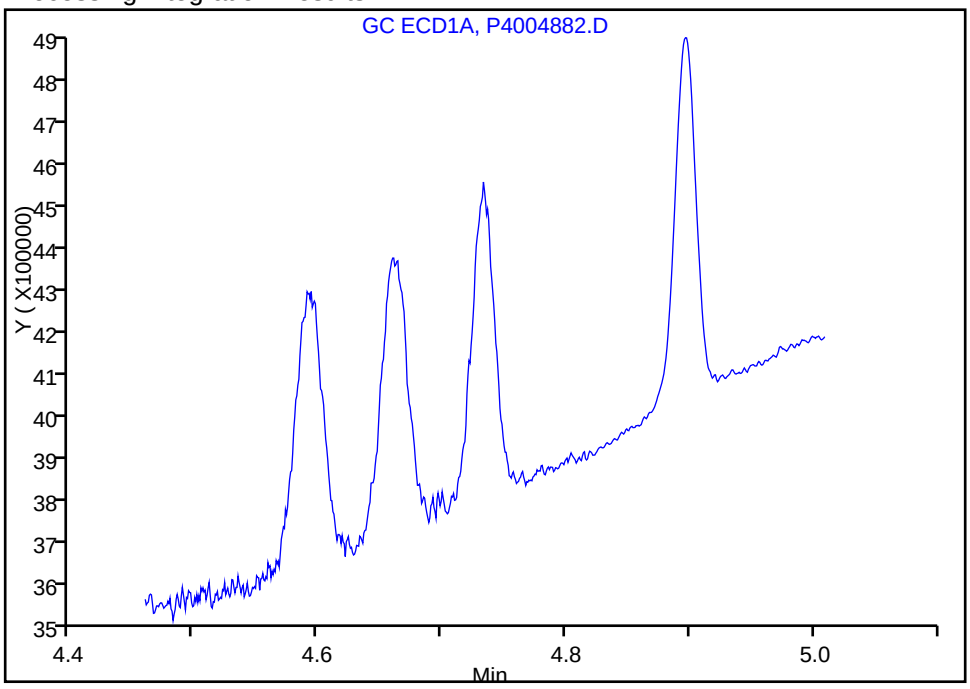
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

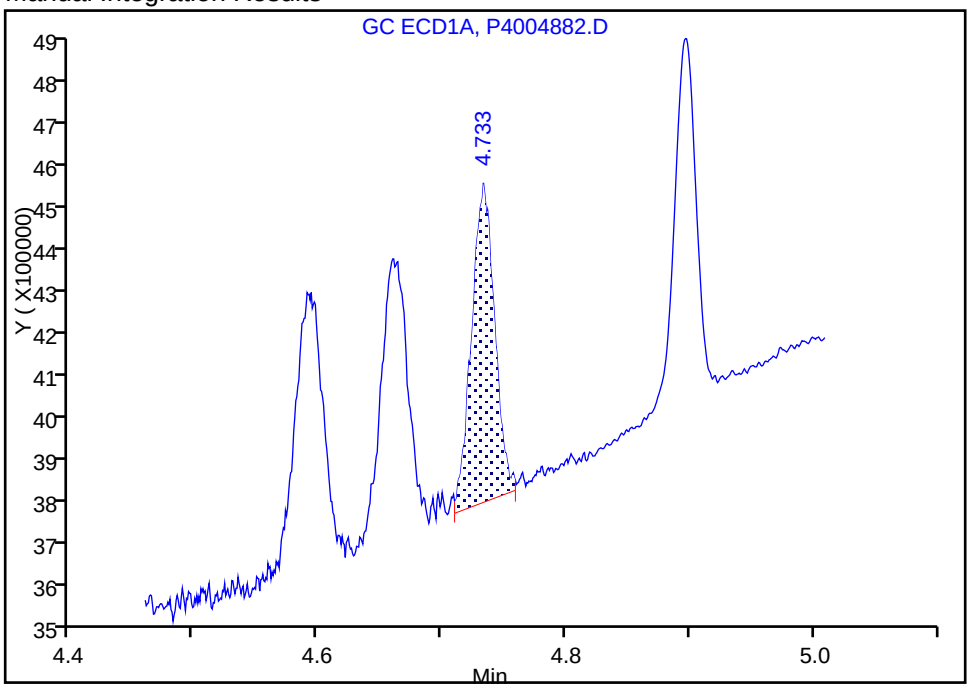
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.73
Area: 892866
Amount: 2.608170
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:24
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

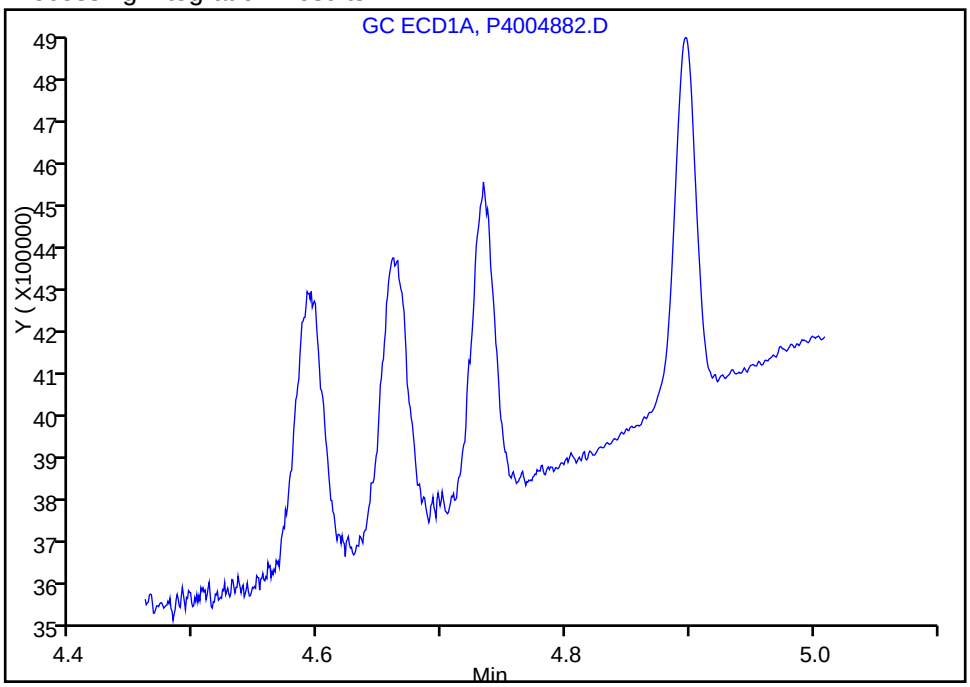
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

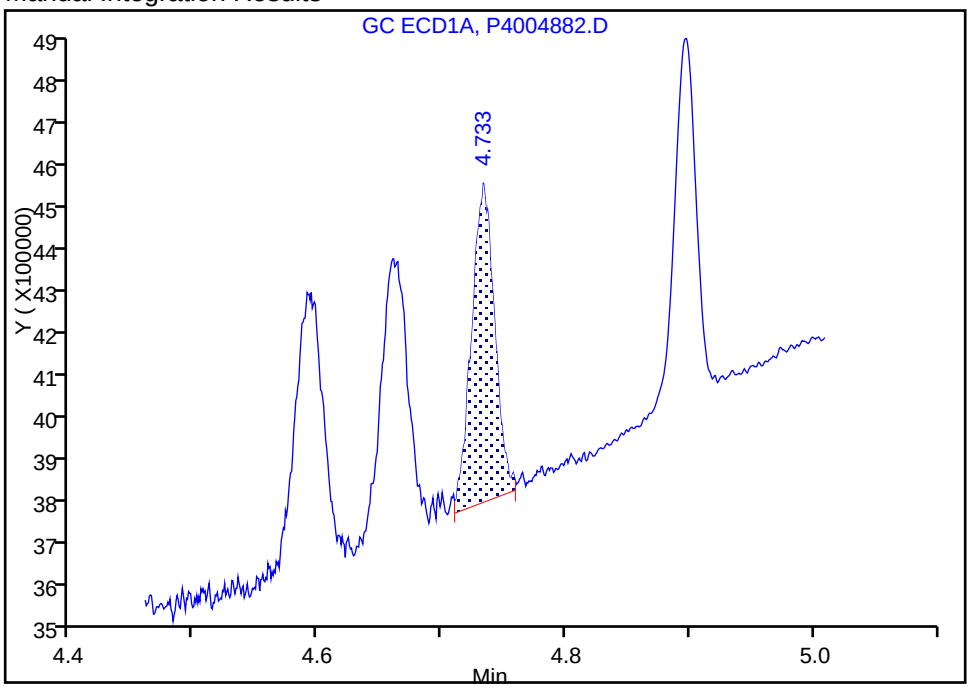
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.73
Area: 892866
Amount: 2.608170
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:40
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

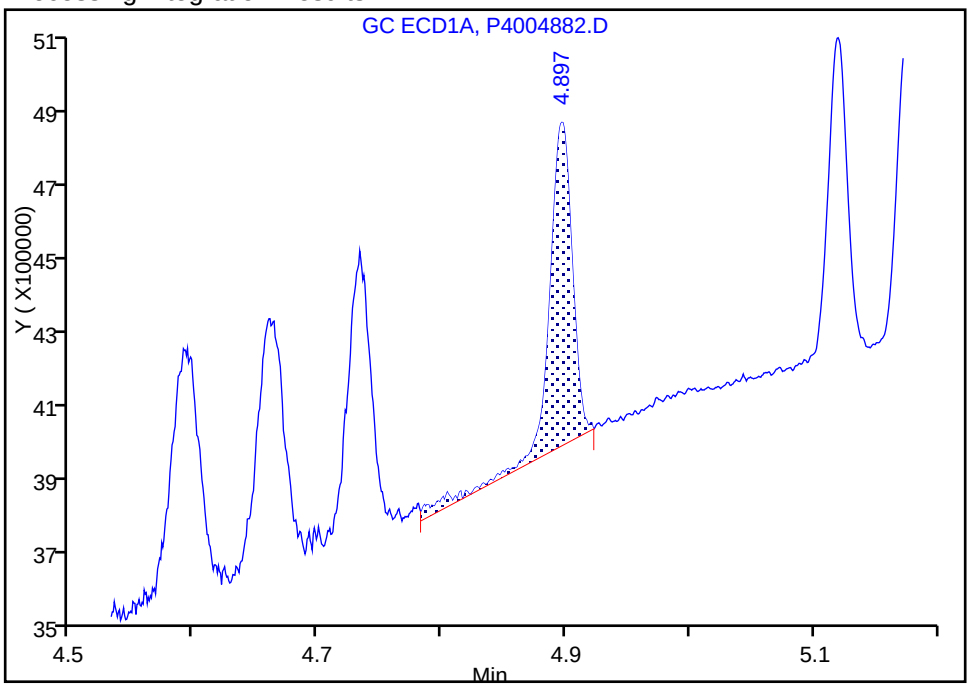
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

30 Dieldrin, CAS: 60-57-1

Signal: 1

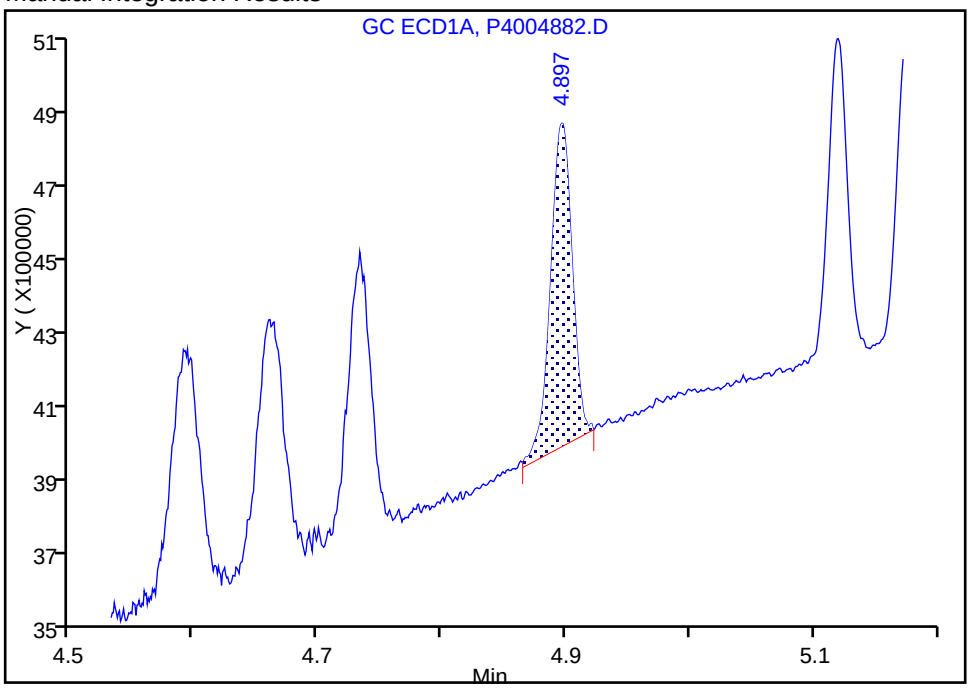
Processing Integration Results

RT: 4.90
Area: 1038061
Amount: 2.812209
Amount Units: ug/l



Manual Integration Results

RT: 4.90
Area: 967073
Amount: 2.660833
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:37
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

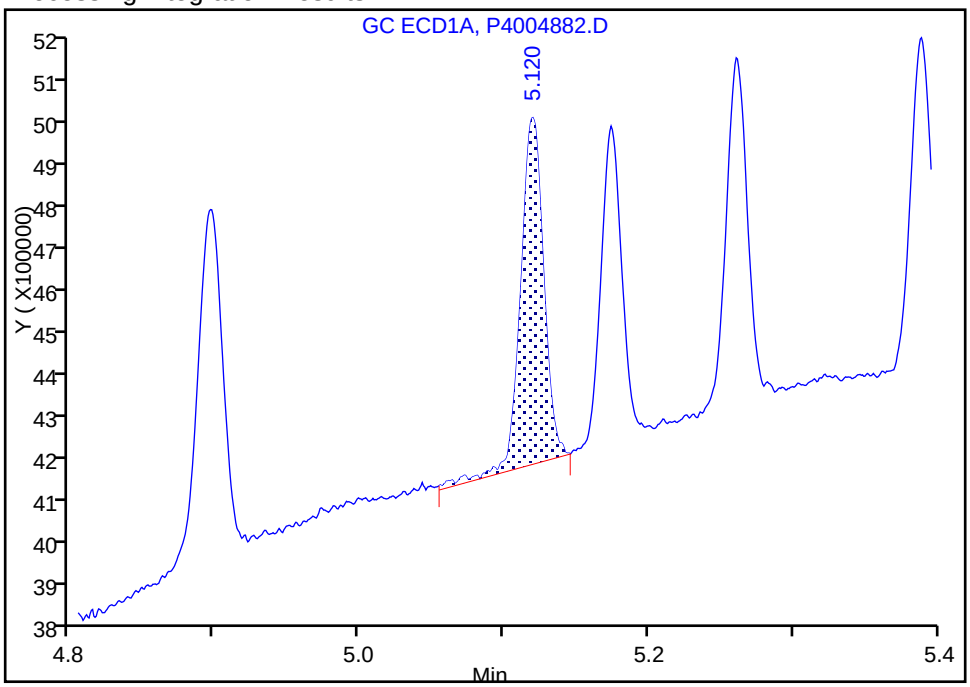
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

20 Endrin, CAS: 72-20-8

Signal: 1

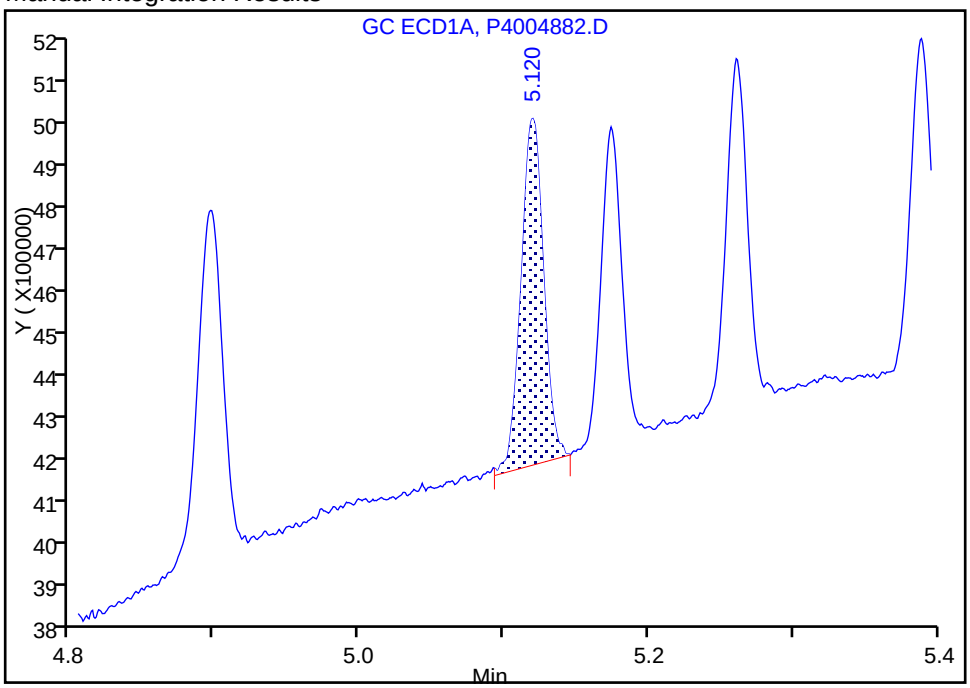
Processing Integration Results

RT: 5.12
Area: 877021
Amount: 2.710555
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 852038
Amount: 2.649709
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:41

Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

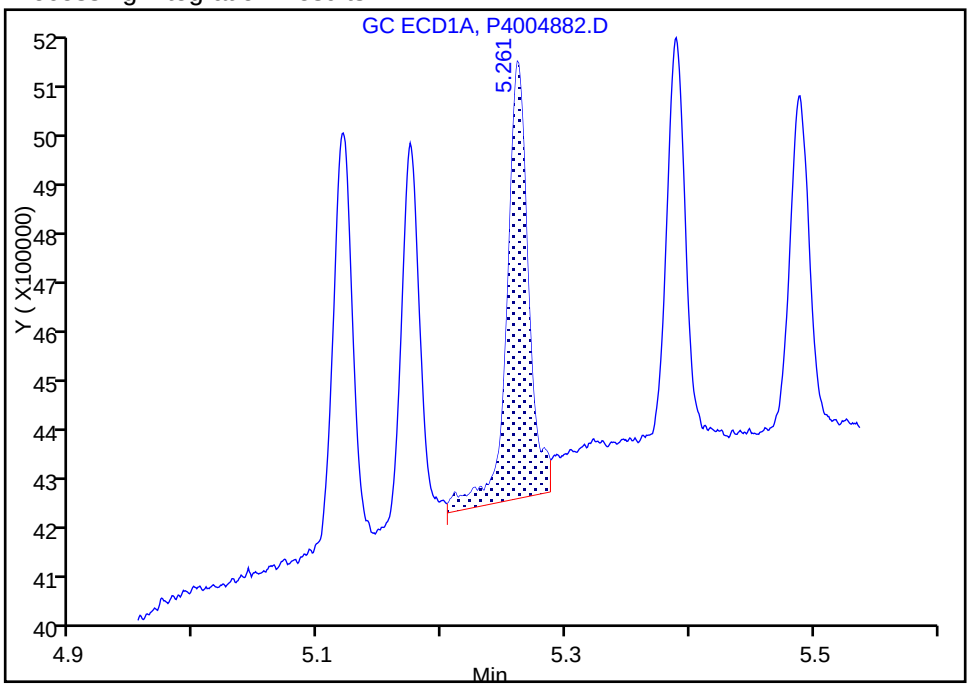
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

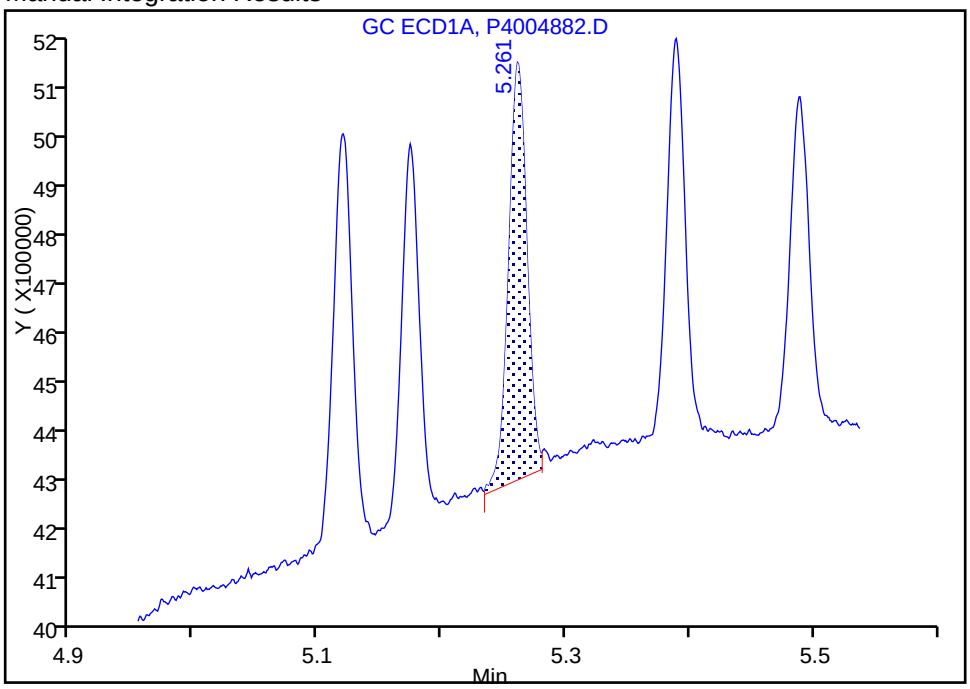
Processing Integration Results

RT: 5.26
Area: 1003246
Amount: 3.105393
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 820853
Amount: 2.648734
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:47

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

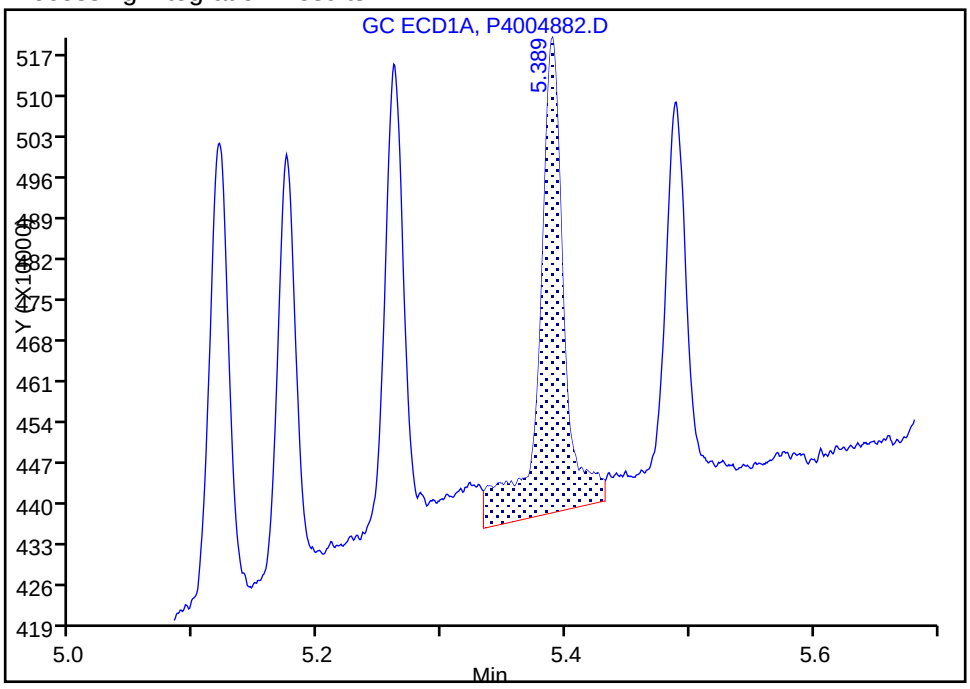
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

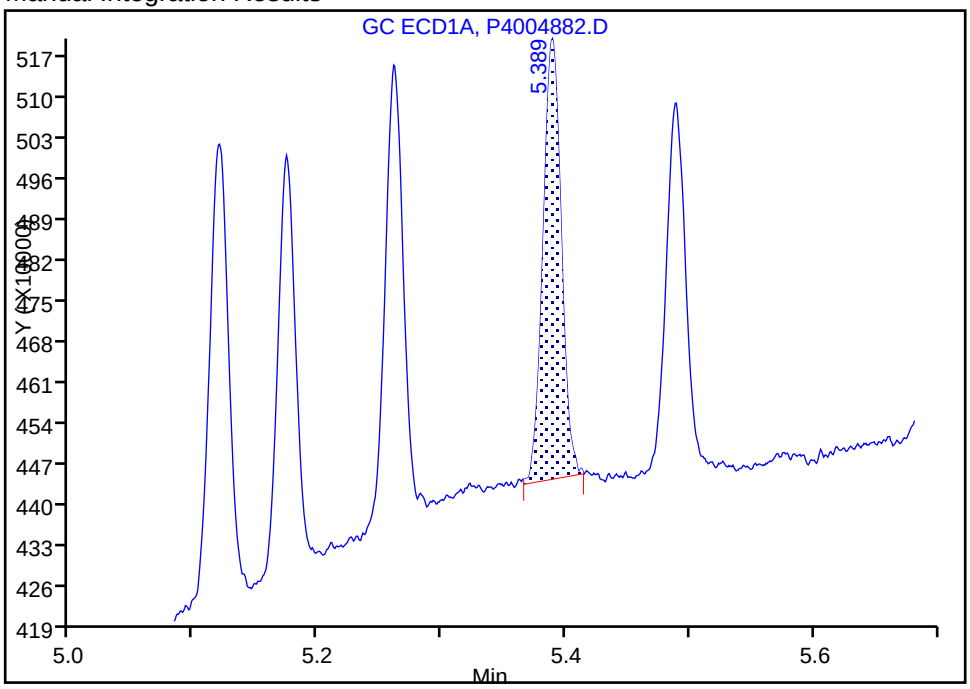
Processing Integration Results

RT: 5.39
Area: 1126631
Amount: 2.225593
Amount Units: ug/l



Manual Integration Results

RT: 5.39
Area: 771321
Amount: 2.546739
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:49

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

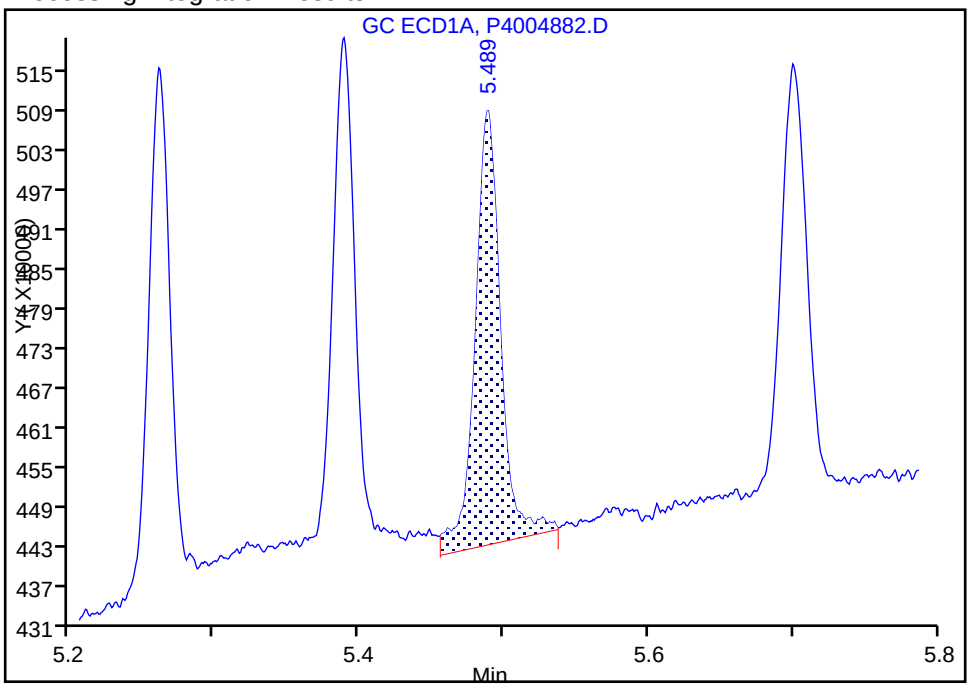
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

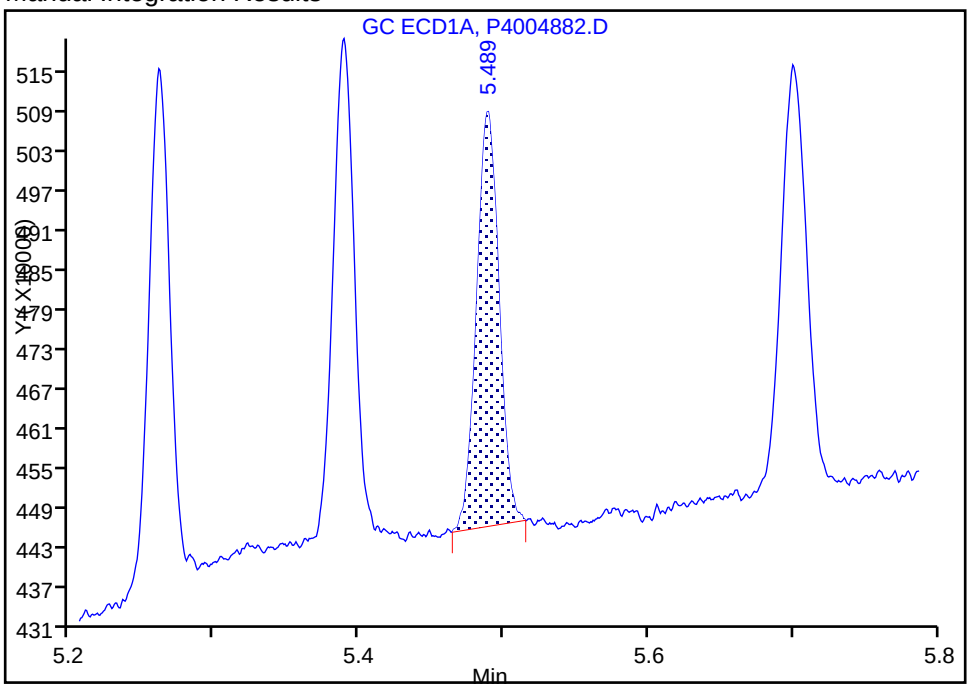
Processing Integration Results

RT: 5.49
Area: 804971
Amount: 2.974844
Amount Units: ug/l



Manual Integration Results

RT: 5.49
Area: 675307
Amount: 2.590002
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:53

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

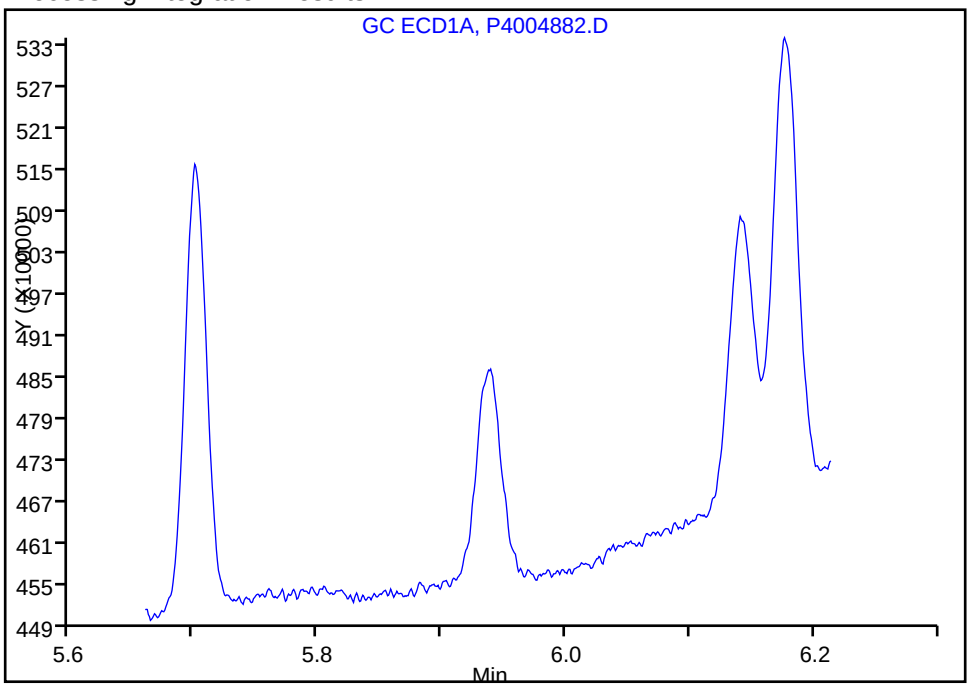
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

10 Methoxychlor, CAS: 72-43-5

Signal: 1

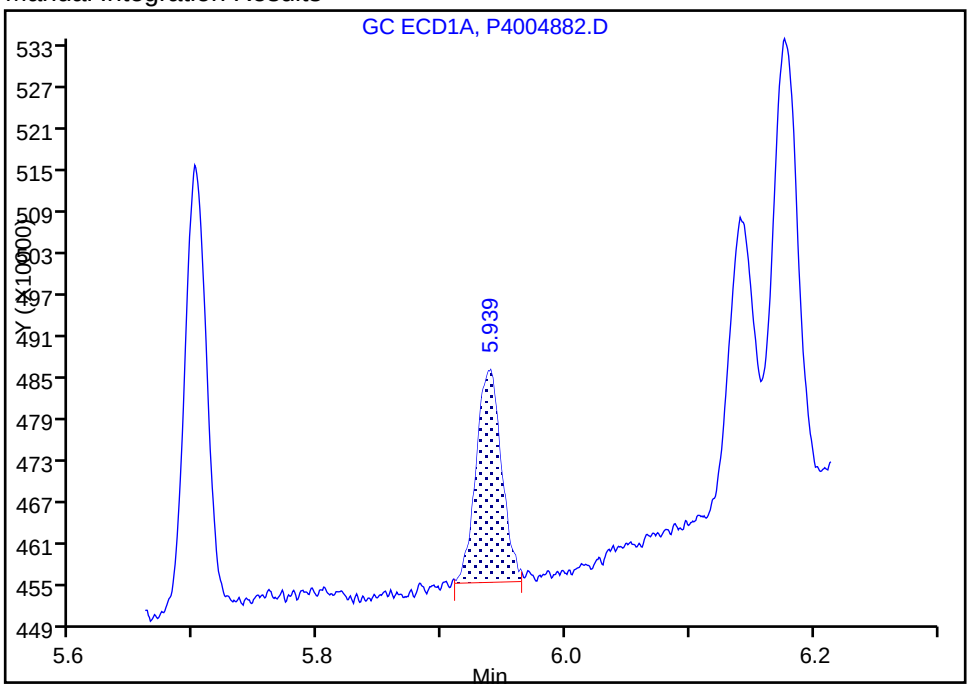
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.94
Area: 434392
Amount: 2.628053
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:43
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

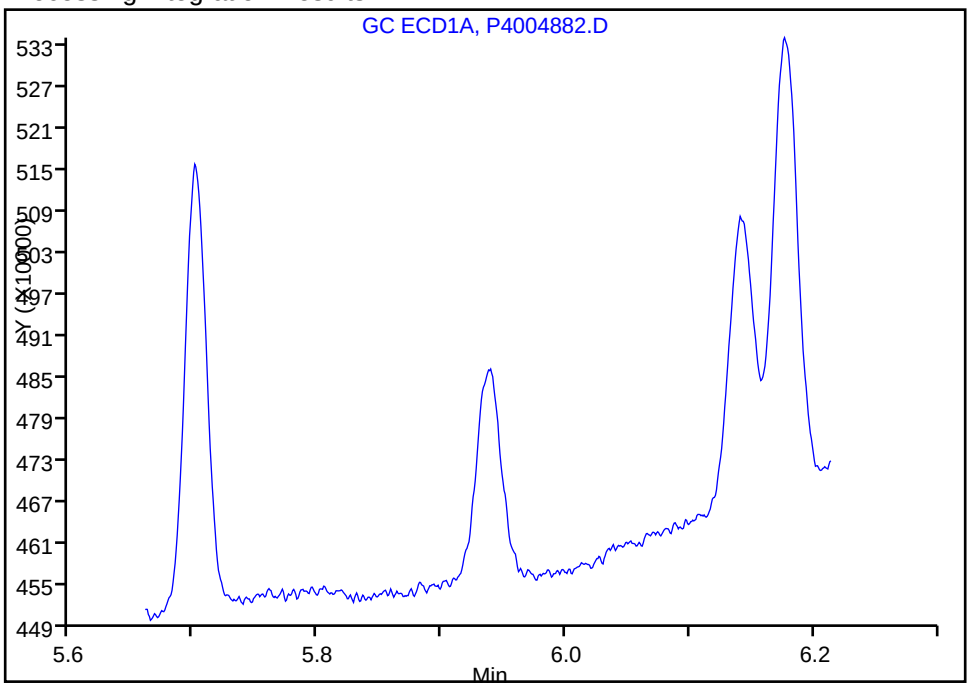
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

10 Methoxychlor, CAS: 72-43-5

Signal: 1

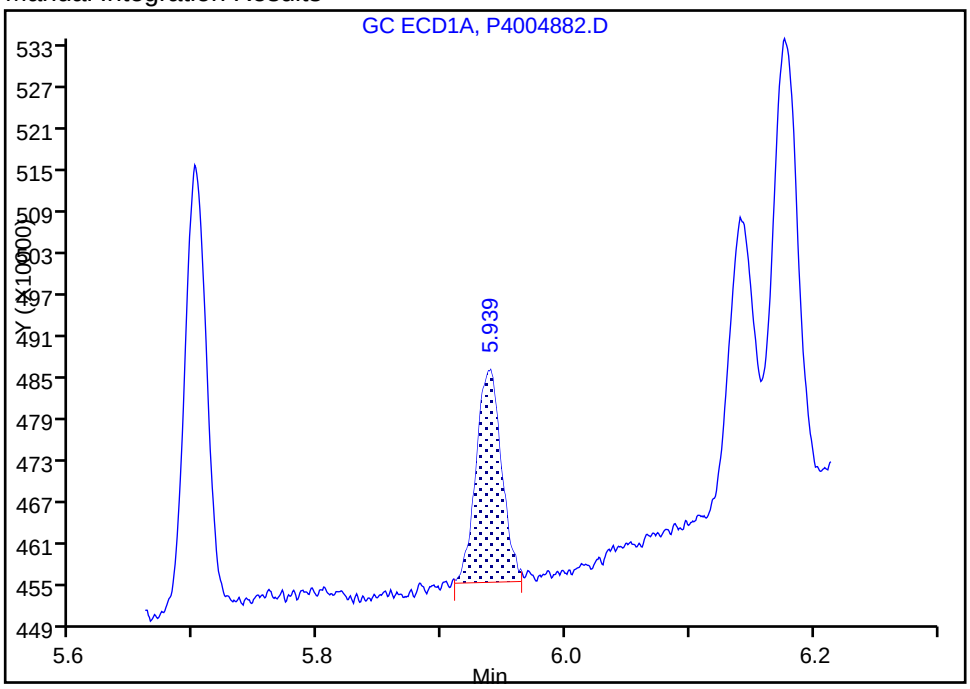
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.94
Area: 434392
Amount: 2.628053
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:52:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

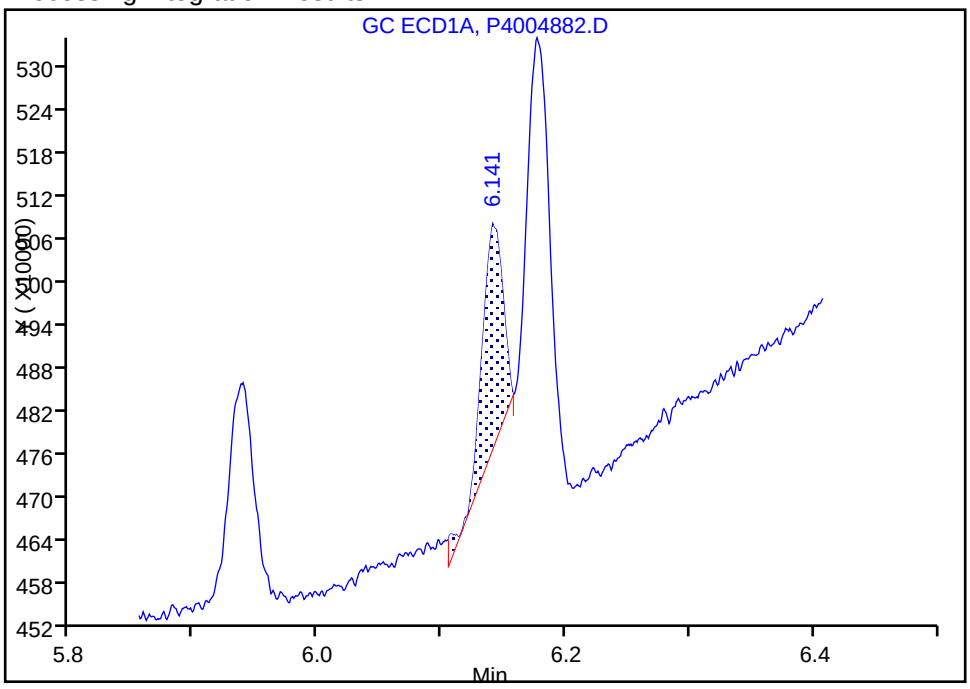
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

34 Mirex, CAS: 2385-85-5

Signal: 1

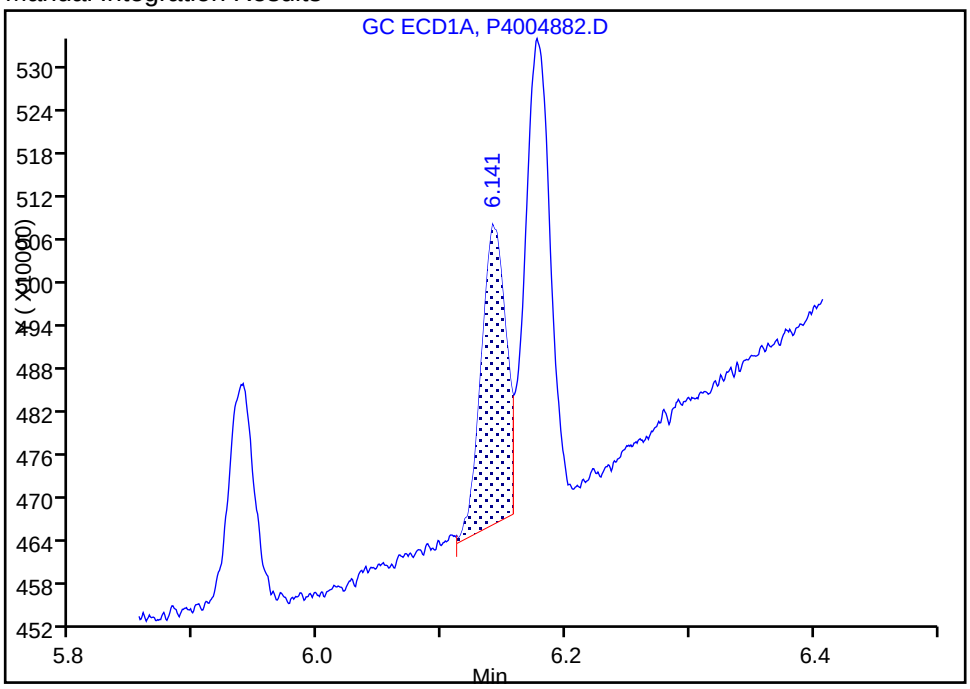
Processing Integration Results

RT: 6.14
Area: 364868
Amount: 1.863642
Amount Units: ug/l



Manual Integration Results

RT: 6.14
Area: 574199
Amount: 2.711820
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:00
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

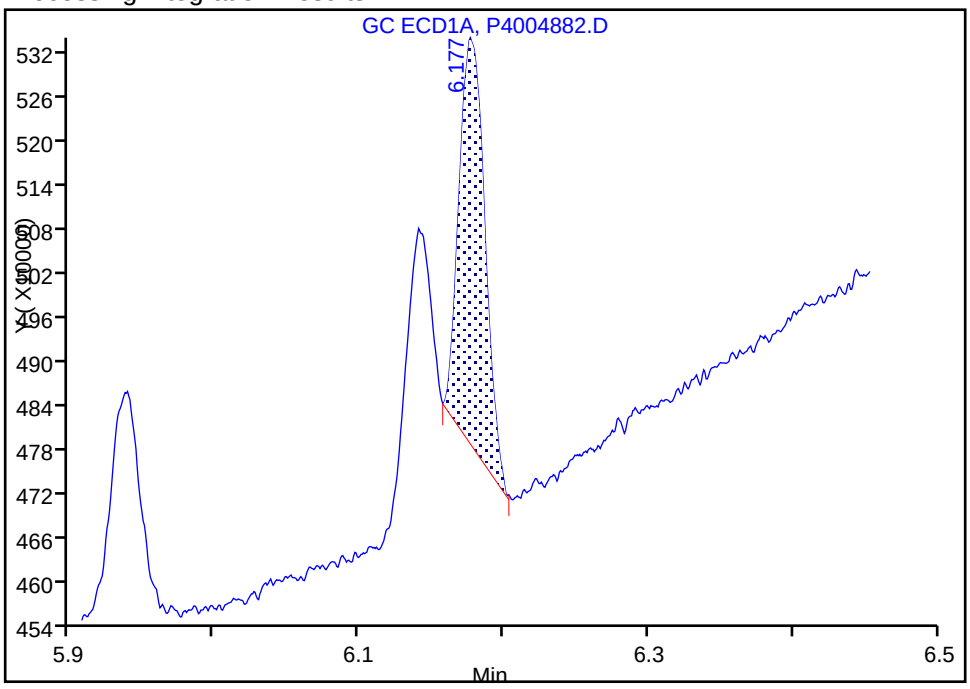
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

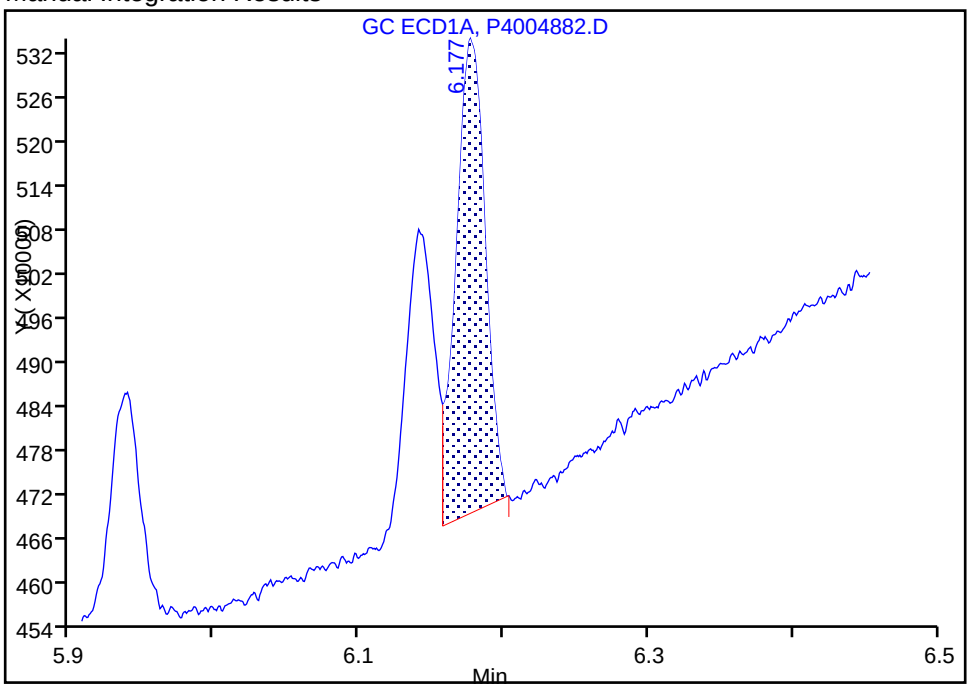
Processing Integration Results

RT: 6.18
Area: 682380
Amount: 2.129386
Amount Units: ug/l



Manual Integration Results

RT: 6.18
Area: 898789
Amount: 2.665805
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:58:26
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

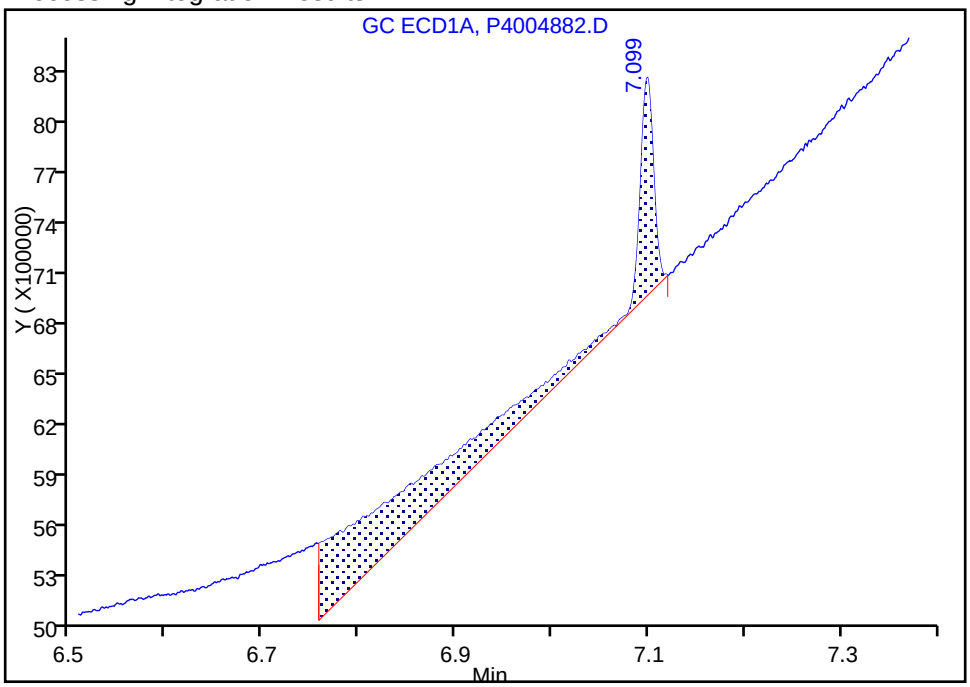
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

$ 24 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

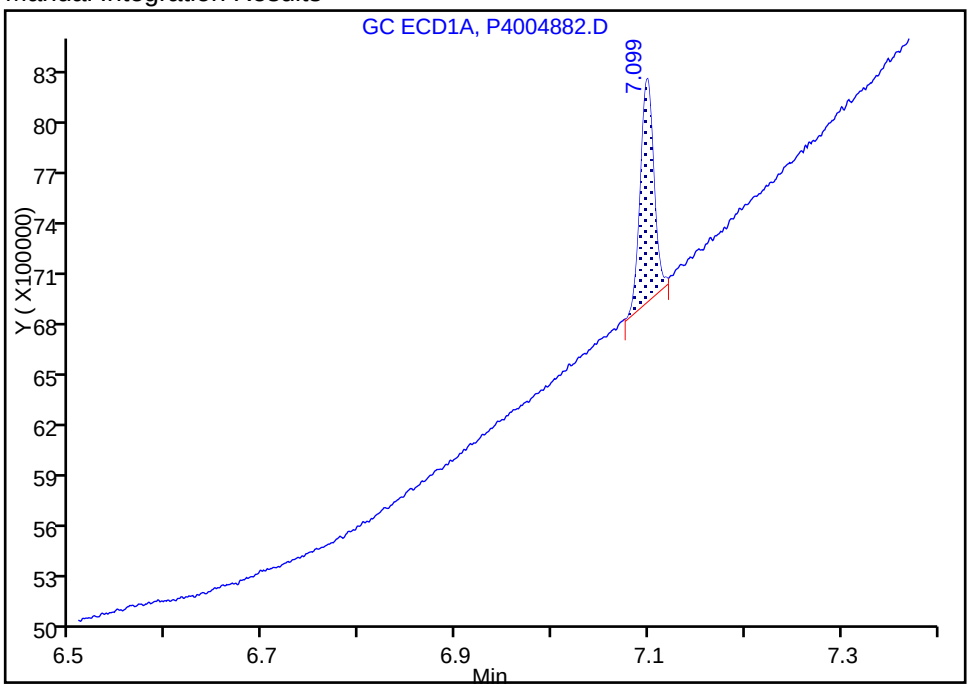
Processing Integration Results

RT: 7.10
Area: 4803020
Amount: 7.326267
Amount Units: ug/l



Manual Integration Results

RT: 7.10
Area: 1259714
Amount: 5.357092
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:41:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 08:34:19 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-004
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:36:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	30995442	100.0	100.0	
2	1.514	1.513	0.001	41249170	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.230	0.003	15222511	50.0	49.2	
2	1.887	1.885	0.002	19404595	50.0	49.7	
						RPD = 0.96	
15 alpha-BHC							
1	2.654	2.651	0.003	22273426	50.0	49.9	
2	2.209	2.208	0.001	28125700	50.0	49.5	
						RPD = 0.86	
2 gamma-BHC (Lindane)							
1	2.922	2.918	0.004	21406764	50.0	51.7	
2	2.402	2.400	0.002	25889272	50.0	49.9	
						RPD = 3.50	
6 beta-BHC							
1	2.971	2.967	0.004	9807394	50.0	54.2	
2	2.448	2.447	0.001	11597674	50.0	51.6	
						RPD = 4.98	
32 delta-BHC							
1	3.220	3.218	0.002	21741221	50.0	51.4	
2	2.565	2.563	0.002	25739135	50.0	49.7	
						RPD = 3.52	
18 Heptachlor							
1	3.297	3.294	0.003	21115027	50.0	51.4	
2	2.699	2.698	0.001	25502692	50.0	50.1	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.605	3.603	0.002	20146283	50.0	52.0	M
2	2.907	2.905	0.002	22924487	50.0	48.6	
						RPD = 6.71	
12 Heptachlor epoxide							M
1	4.210	4.208	0.002	18929078	50.0	53.7	M
2	3.361	3.359	0.002	22174471	50.0	49.9	
						RPD = 7.33	
9 gamma-Chlordane							M
1	4.419	4.418	0.001	17992167	50.0	51.0	M
2	3.464	3.462	0.002	22027564	50.0	49.9	
						RPD = 2.26	
23 alpha-Chlordane							
1	4.580	4.578	0.002	16937472	50.0	50.8	
2	3.579	3.577	0.002	21460792	50.0	50.0	
						RPD = 1.60	
7 Endosulfan I							
1	4.651	4.648	0.003	16278318	50.0	50.4	
2	3.711	3.709	0.002	21290606	50.0	50.8	
						RPD = 0.84	
25 4,4'-DDE							
1	4.723	4.722	0.001	17087976	50.0	51.3	
2	3.634	3.632	0.002	21496333	50.0	50.4	
						RPD = 1.74	
30 Dieldrin							
1	4.889	4.886	0.003	17932440	50.0	50.7	
2	3.945	3.943	0.002	23215863	50.0	50.1	
						RPD = 1.15	
20 Endrin							
1	5.112	5.110	0.002	15709414	50.0	50.2	
2	4.199	4.198	0.001	21185619	50.0	49.5	
						RPD = 1.52	
16 4,4'-DDD							
1	5.167	5.165	0.002	13829574	50.0	49.6	
2	4.255	4.253	0.002	18476782	50.0	49.7	
						RPD = 0.16	
11 Endosulfan II							
1	5.254	5.253	0.001	14997308	50.0	49.7	
2	4.439	4.437	0.002	20626396	50.0	51.0	
						RPD = 2.47	
21 4,4'-DDT							
1	5.382	5.380	0.002	14759027	50.0	50.1	
2	4.557	4.555	0.002	19665583	50.0	51.0	
						RPD = 1.80	
5 Endrin aldehyde							
1	5.482	5.480	0.002	12666436	50.0	49.9	
2	4.834	4.834	0.000	17226948	50.0	51.0	
						RPD = 2.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.693	5.692	0.001	14704500	50.0	50.5	
2	5.142	5.142	0.000	21141579	50.0	51.2	
						RPD = 1.43	
10 Methoxychlor							
1	5.929	5.927	0.002	8347253	50.0	51.9	
2	4.969	4.968	0.001	10951141	50.0	50.7	
						RPD = 2.38	
34 Mirex							M
1	6.134	6.133	0.001	9955340	50.0	48.3	M
2	5.064	5.063	0.001	14534654	50.0	49.0	
						RPD = 1.49	
13 Endrin ketone							M
1	6.169	6.167	0.002	16702227	50.0	50.9	M
2	5.323	5.323	0.000	24267944	50.0	52.0	
						RPD = 2.08	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.092	0.002	11638272	50.0	50.9	
2	6.117	6.116	0.001	19292555	50.0	51.6	
						RPD = 1.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

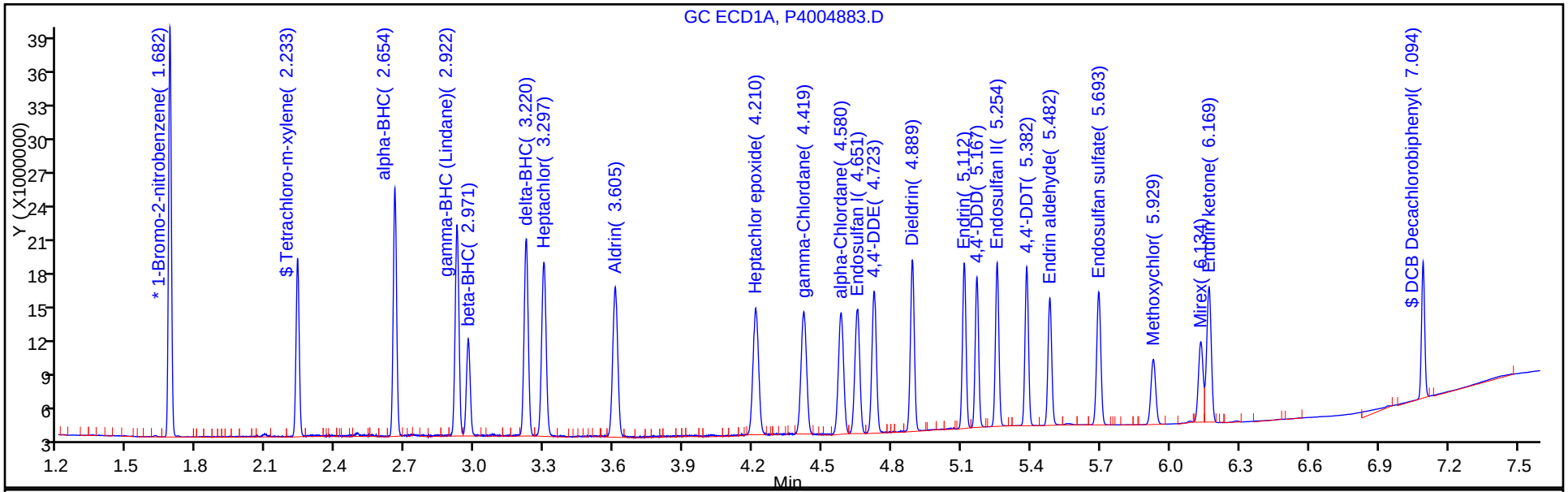
SGPESTL2_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

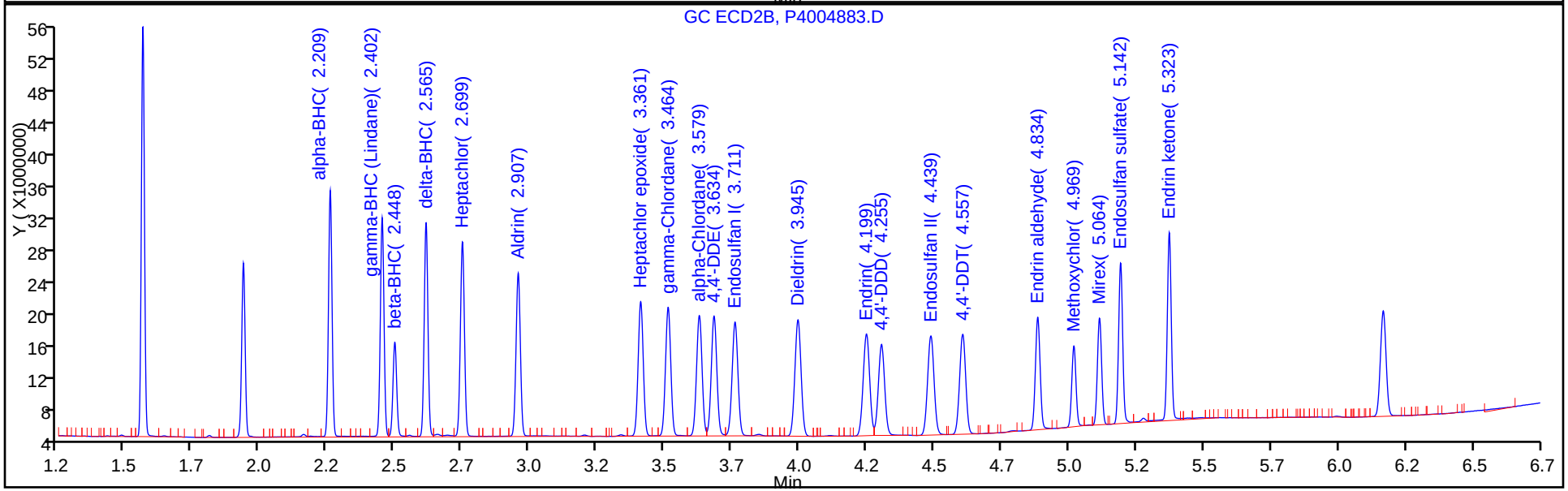
Report Date: 27-Sep-2017 13:43:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D

Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

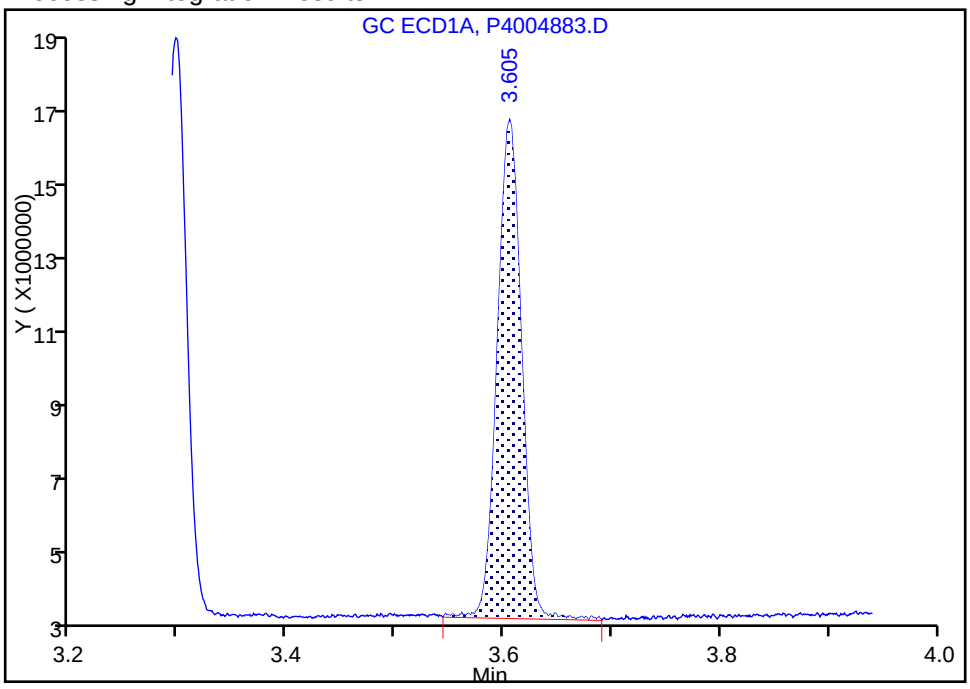
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Injection Date: 27-Sep-2017 08:34:19 Instrument ID: CPESTGC4
Lims ID: STD PESTL2
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

8 Aldrin, CAS: 309-00-2

Signal: 1

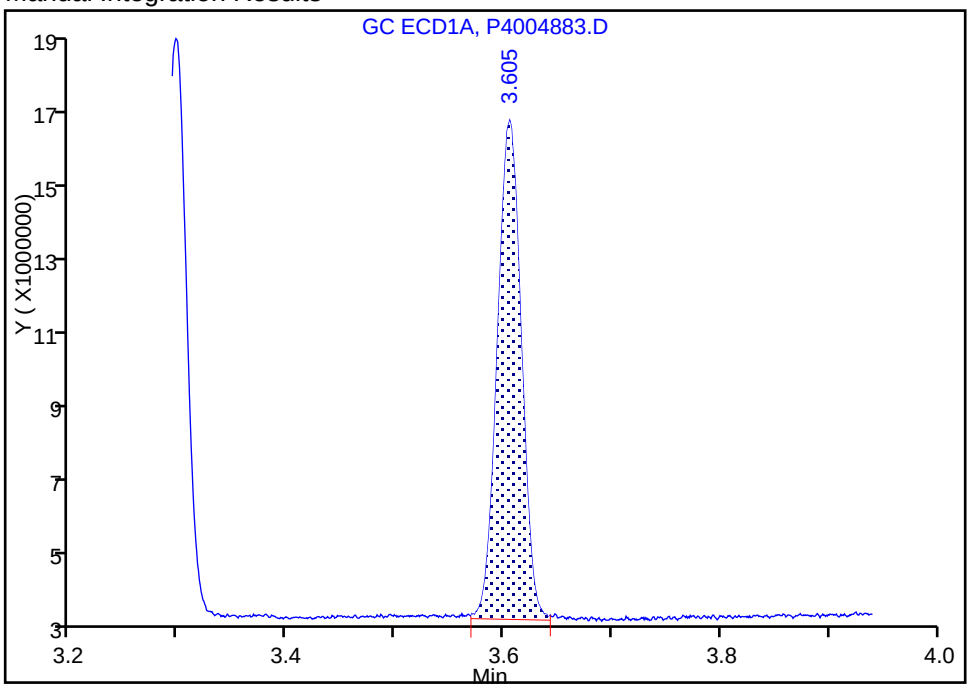
Processing Integration Results

RT: 3.61
Area: 20453436
Amount: 51.580580
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 20146283
Amount: 51.995445
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 11:13:48
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

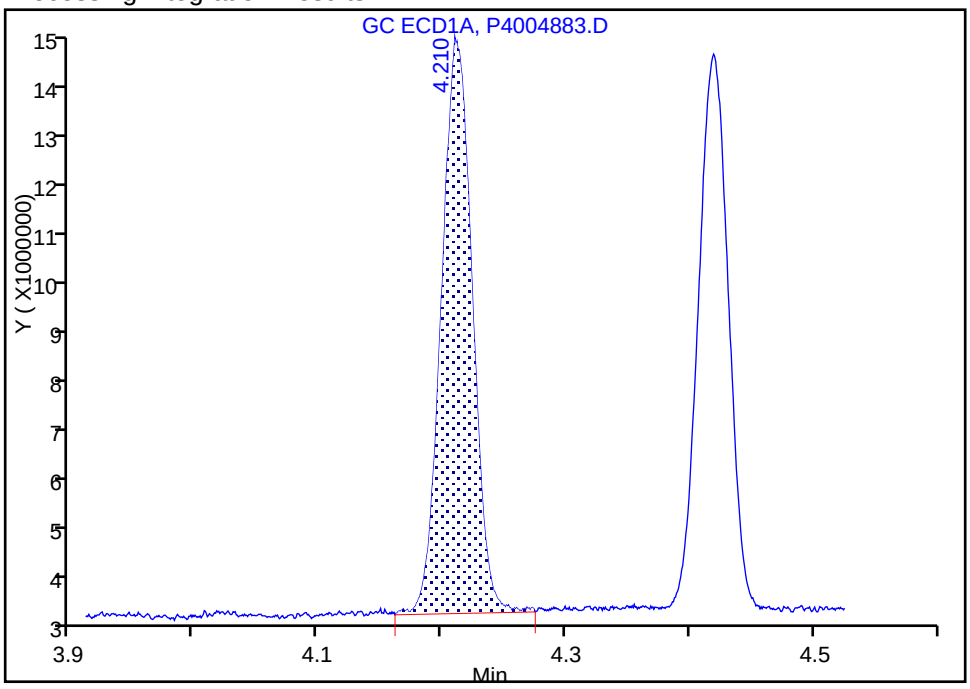
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

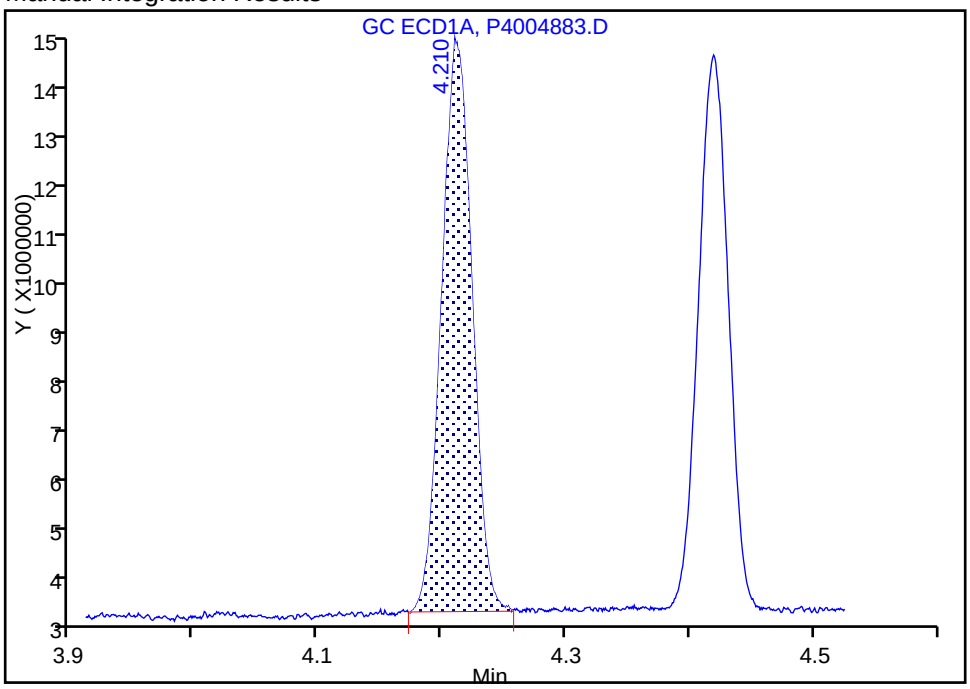
Processing Integration Results

RT: 4.21
Area: 19304351
Amount: 52.586019
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 18929078
Amount: 53.674832
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:03:45

Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

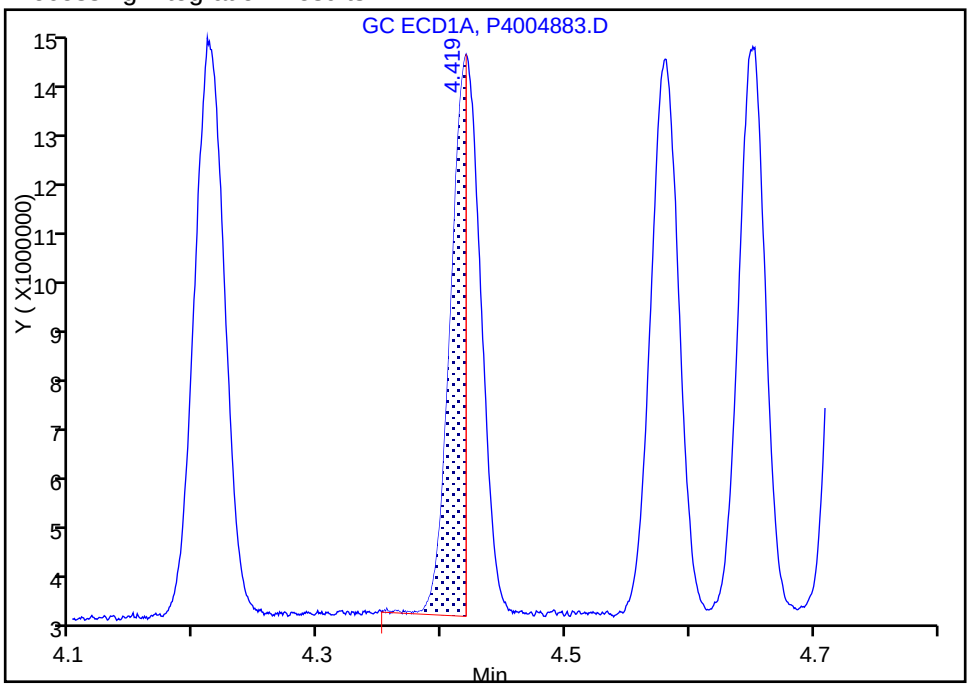
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

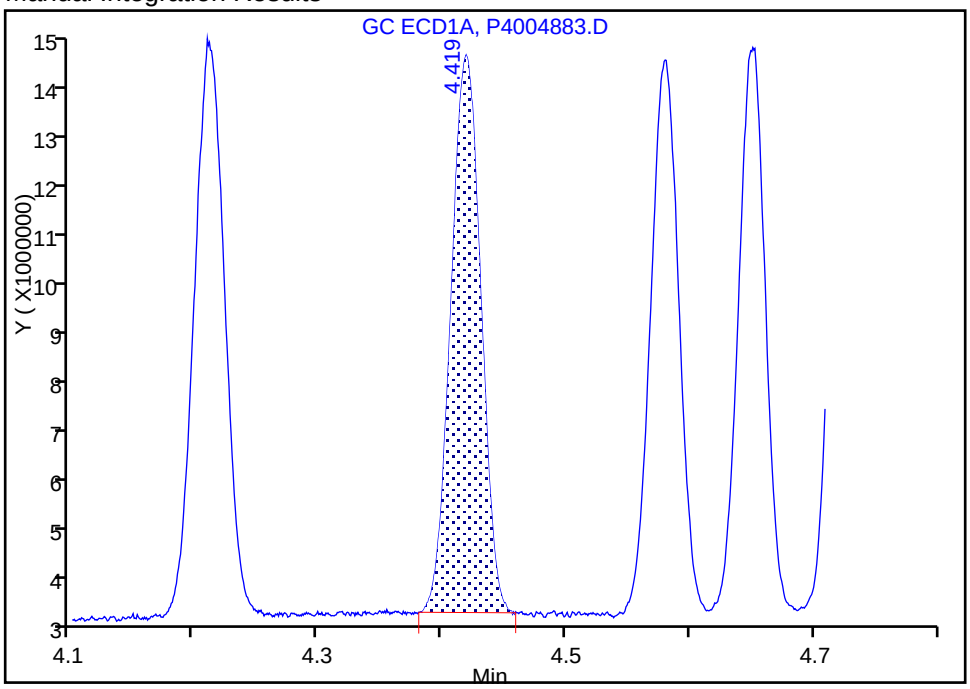
Processing Integration Results

RT: 4.42
Area: 9249583
Amount: 28.718647
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 17992167
Amount: 50.992932
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:05:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

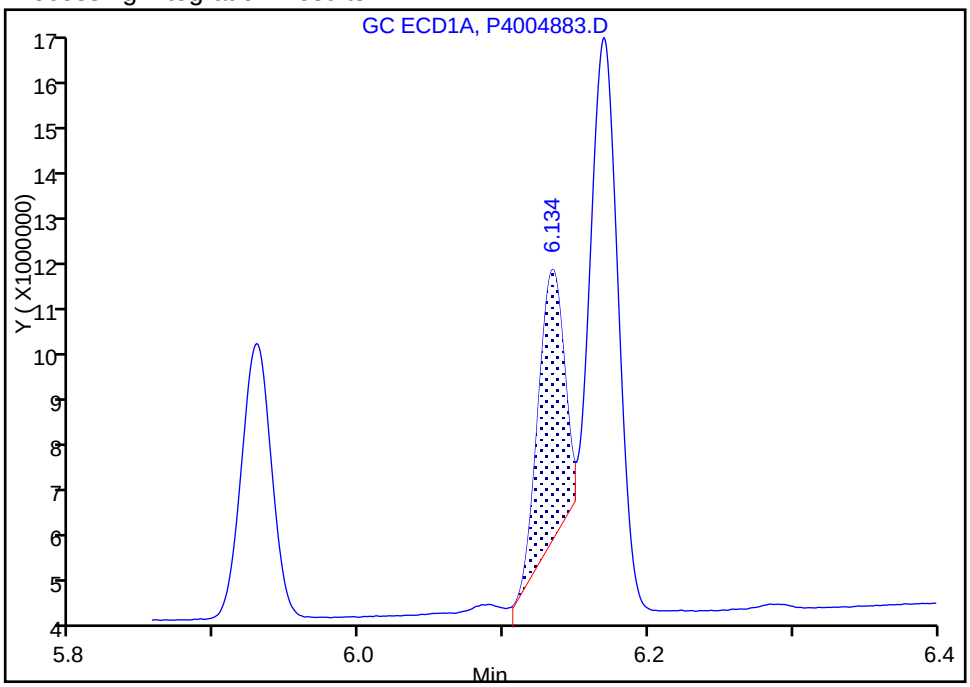
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Injection Date: 27-Sep-2017 08:34:19 Instrument ID: CPESTGC4
Lims ID: STD PESTL2
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

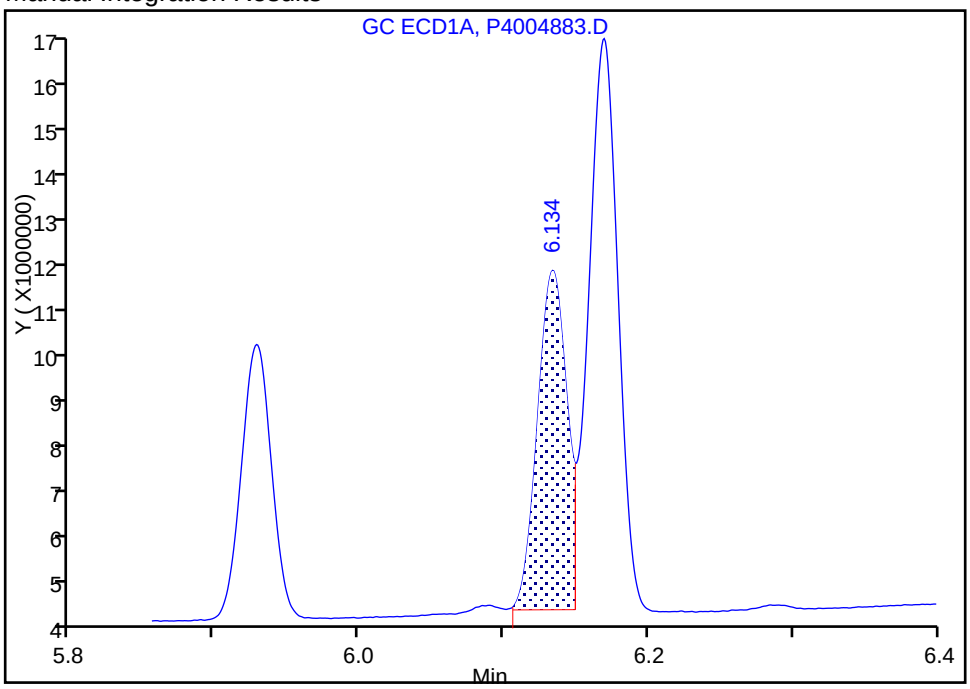
Processing Integration Results

RT: 6.13
Area: 7025039
Amount: 40.131467
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 9955340
Amount: 48.318922
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:59:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

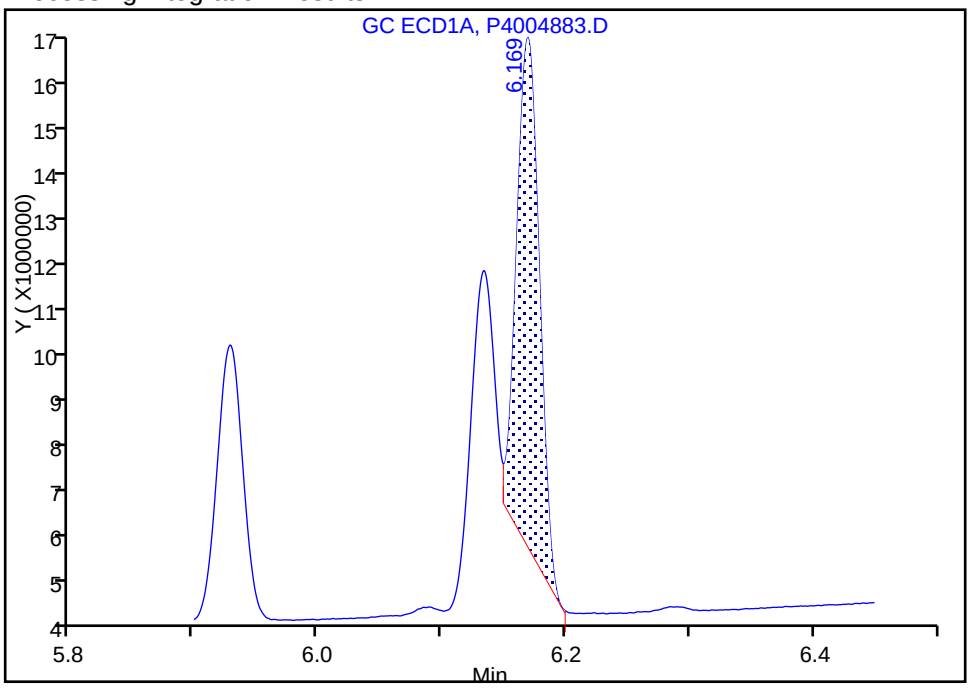
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D				
Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

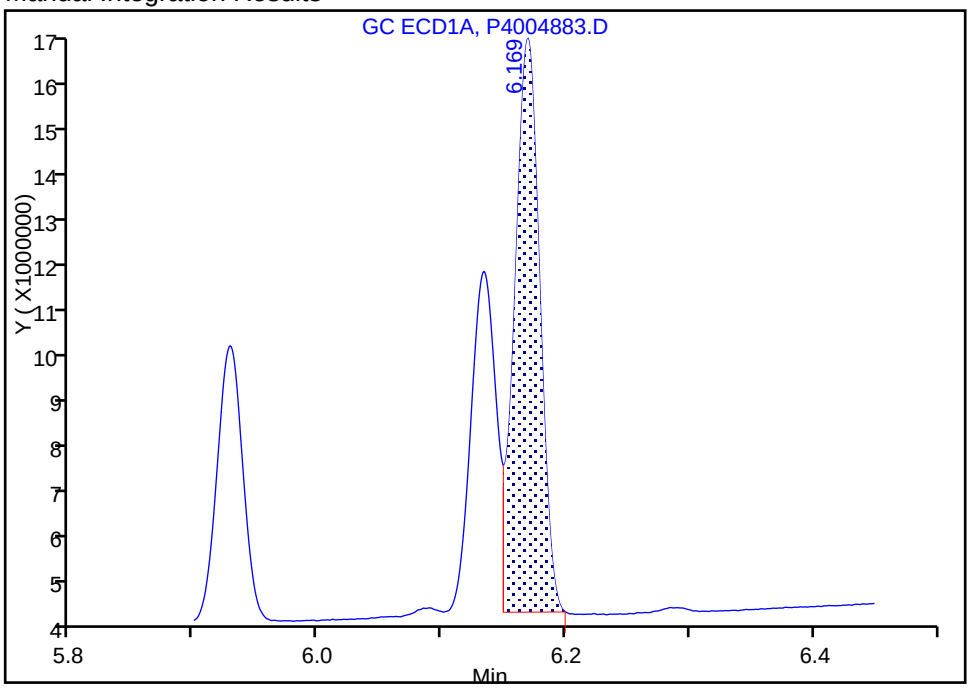
Processing Integration Results

RT: 6.17
Area: 13413711
Amount: 45.322181
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 16702227
Amount: 50.910539
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:59:20

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 08:46:34 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-005
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:19 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:14:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31440597	100.0	100.0	
2	1.514	1.514	0.000	41941013	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	31435133	100.0	100.2	
2	1.887	1.887	0.000	40999889	100.0	103.3	
						RPD = 3.01	
15 alpha-BHC							
1	2.654	2.654	0.000	44917872	100.0	99.2	
2	2.210	2.210	0.000	58964160	100.0	102.0	
						RPD = 2.79	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	42238244	100.0	100.5	
2	2.402	2.402	0.000	53365655	100.0	101.1	
						RPD = 0.63	
6 beta-BHC							
1	2.970	2.970	0.000	18689999	100.0	101.8	
2	2.449	2.449	0.000	22684079	100.0	99.2	
						RPD = 2.62	
32 delta-BHC							
1	3.220	3.220	0.000	42830724	100.0	99.9	
2	2.565	2.565	0.000	53466596	100.0	101.4	
						RPD = 1.54	
18 Heptachlor							
1	3.297	3.297	0.000	41381412	100.0	99.3	
2	2.700	2.700	0.000	52065379	100.0	100.5	
						RPD = 1.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	38526393	100.0	98.0	
2	2.907	2.907	0.000	47263361	100.0	98.6	
						RPD = 0.58	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	37669401	100.0	105.3	
2	3.362	3.362	0.000	45313024	100.0	100.2	
						RPD = 4.92	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	36499048	100.0	102.0	M
2	3.464	3.464	0.000	45042212	100.0	100.3	
						RPD = 1.70	
23 alpha-Chlordane							
1	4.580	4.580	0.000	34366860	100.0	101.5	
2	3.580	3.580	0.000	43513175	100.0	99.6	
						RPD = 1.91	
7 Endosulfan I							
1	4.651	4.651	0.000	33506968	100.0	102.2	
2	3.712	3.712	0.000	42806026	100.0	100.4	
						RPD = 1.75	
25 4,4'-DDE							
1	4.723	4.723	0.000	35199730	100.0	104.2	
2	3.634	3.634	0.000	43691386	100.0	100.8	
						RPD = 3.31	
30 Dieldrin							
1	4.887	4.887	0.000	36985897	100.0	103.1	
2	3.946	3.946	0.000	48478494	100.0	102.9	
						RPD = 0.15	
20 Endrin							
1	5.112	5.112	0.000	32977577	100.0	103.9	
2	4.200	4.200	0.000	44412680	100.0	102.0	
						RPD = 1.89	
16 4,4'-DDD							M
1	5.166	5.166	0.000	29934272	100.0	105.8	M
2	4.256	4.256	0.000	39034234	100.0	103.2	
						RPD = 2.50	
11 Endosulfan II							M
1	5.254	5.254	0.000	32512750	100.0	106.3	M
2	4.439	4.439	0.000	42274152	100.0	102.8	
						RPD = 3.38	
21 4,4'-DDT							M
1	5.381	5.381	0.000	31987959	100.0	107.0	M
2	4.557	4.557	0.000	40739512	100.0	103.9	
						RPD = 2.96	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	28247674	100.0	109.8	M
2	4.835	4.835	0.000	36095786	100.0	105.2	M
						RPD = 4.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.692	5.692	0.000	30913060	100.0	104.6	M
2	5.143	5.143	0.000	42870824	100.0	102.1	M
						RPD = 2.42	
10 Methoxychlor							M
1	5.928	5.928	0.000	17015761	100.0	104.3	
2	4.969	4.969	0.000	22746030	100.0	103.5	M
						RPD = 0.74	
34 Mirex							M
1	6.133	6.133	0.000	20783921	100.0	99.4	
2	5.065	5.065	0.000	29991407	100.0	99.5	M
						RPD = 0.08	
13 Endrin ketone							M
1	6.169	6.169	0.000	33900608	100.0	101.9	
2	5.323	5.323	0.000	48279033	100.0	101.7	M
						RPD = 0.16	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	23785382	100.0	102.5	
2	6.117	6.117	0.000	38977750	100.0	102.6	
						RPD = 0.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

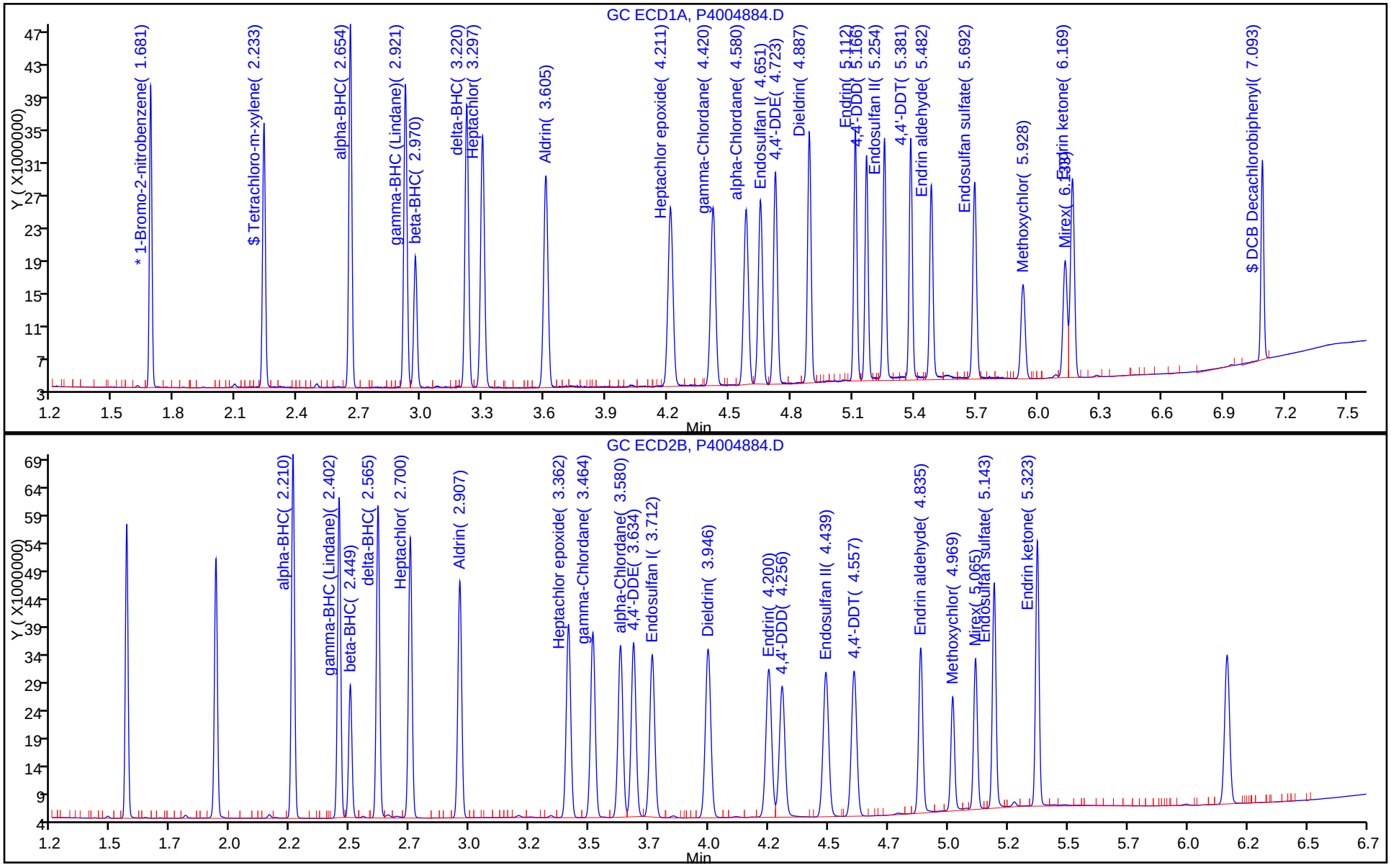
SGPESTL3_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D

Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

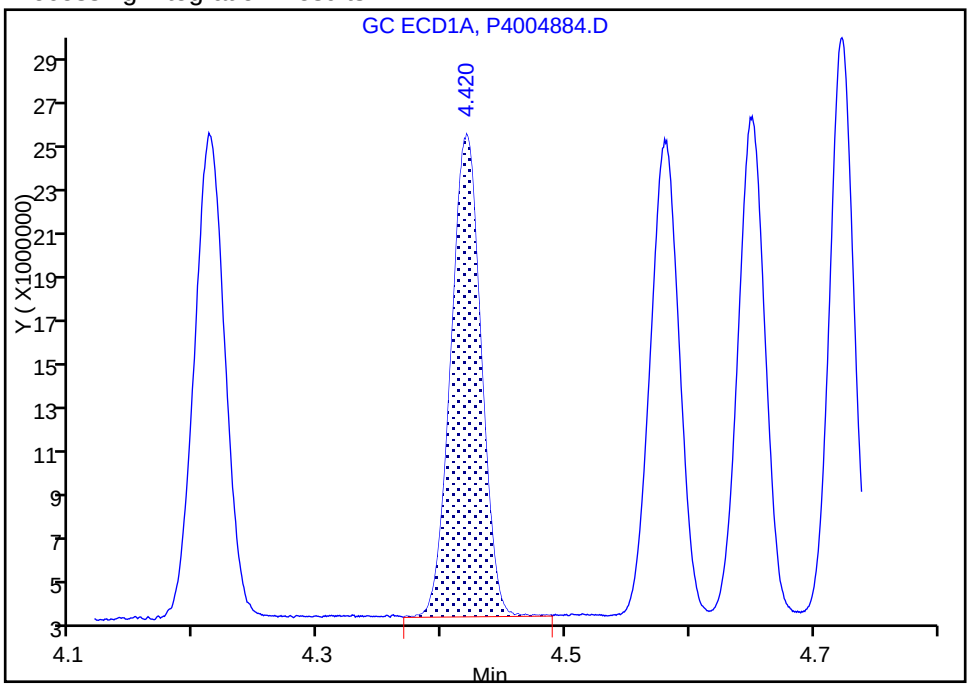
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

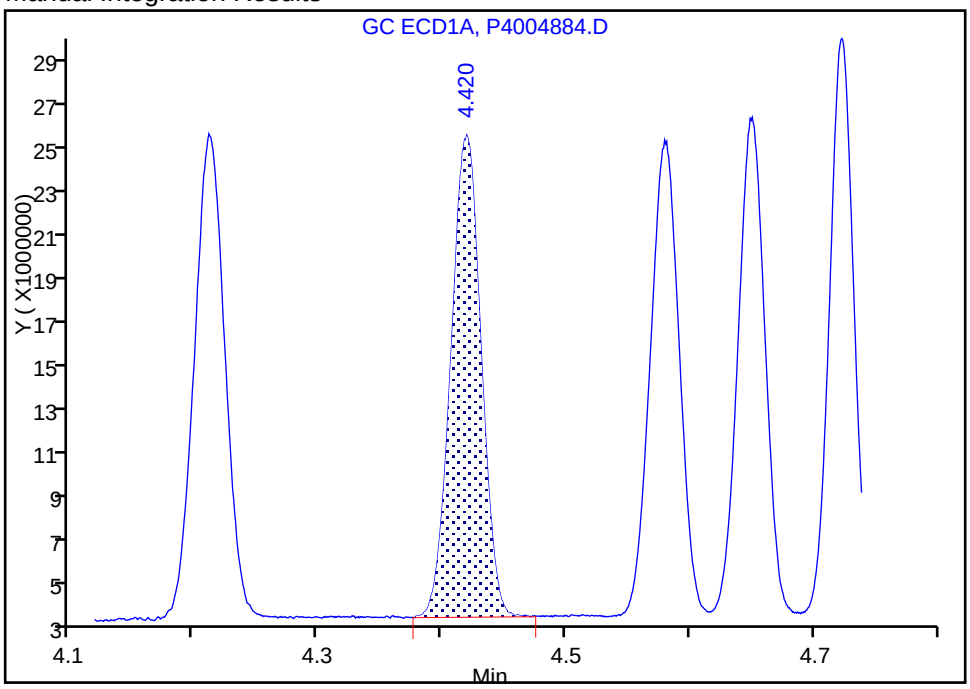
Processing Integration Results

RT: 4.42
Area: 36674875
Amount: 101.0059
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 36499048
Amount: 101.9800
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:00:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

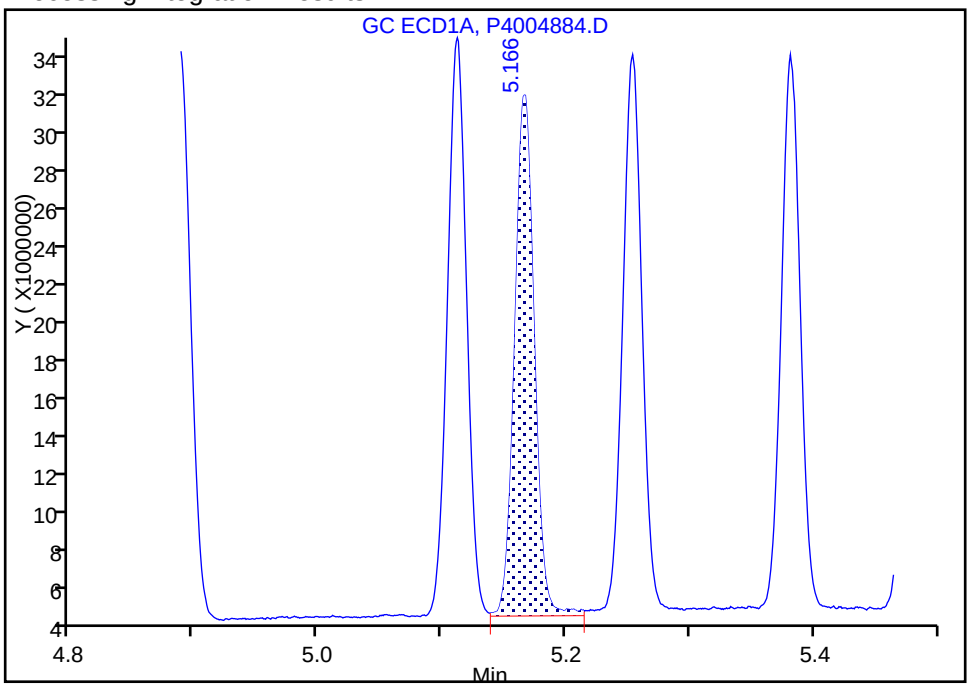
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

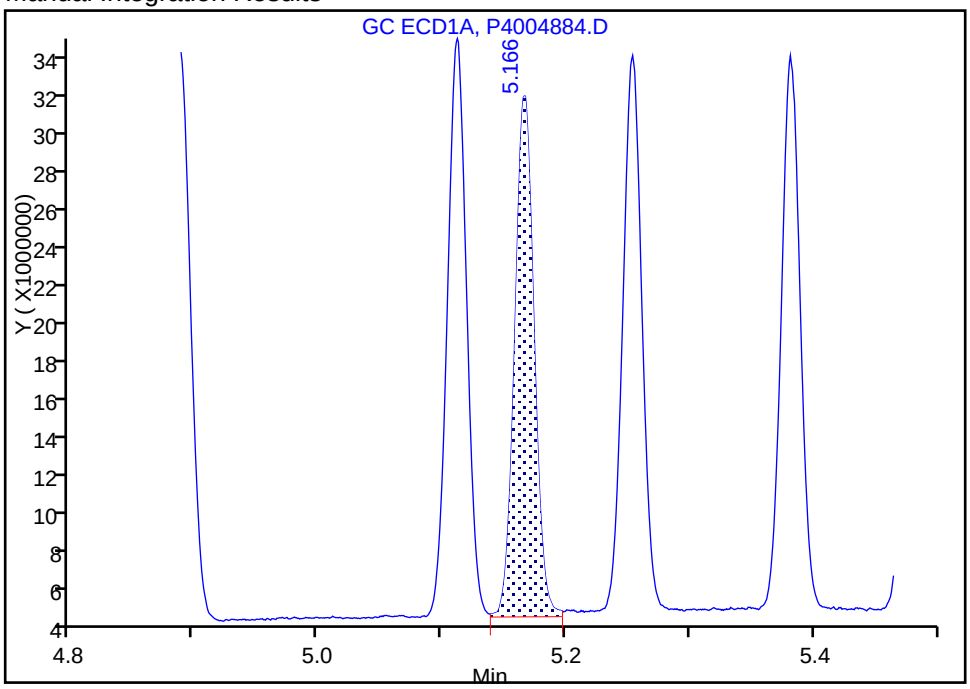
Processing Integration Results

RT: 5.17
Area: 30242331
Amount: 106.6972
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 29934272
Amount: 105.8404
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:38

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

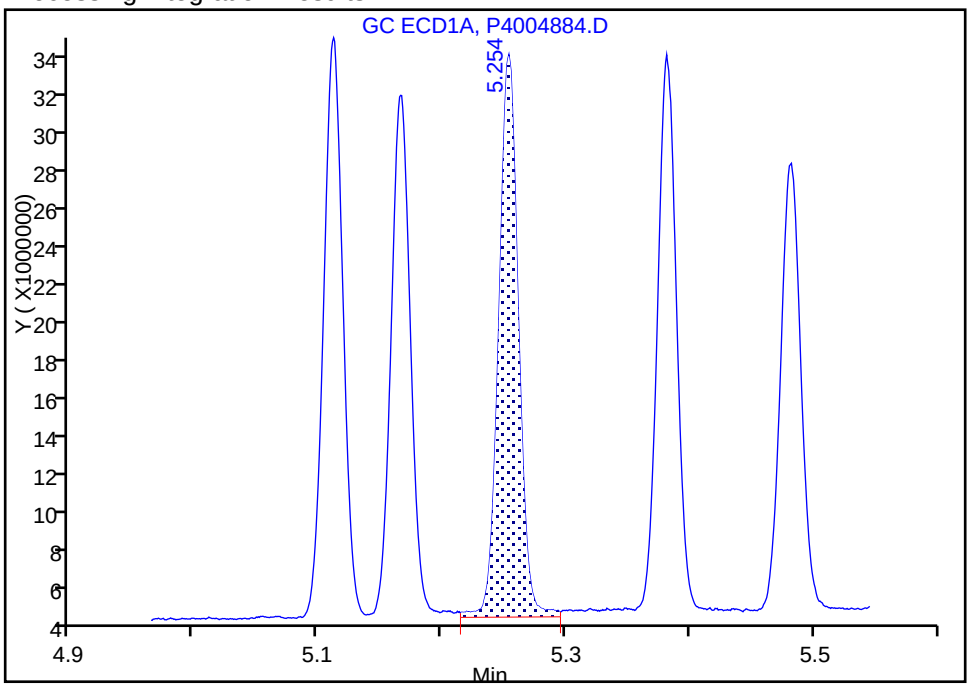
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

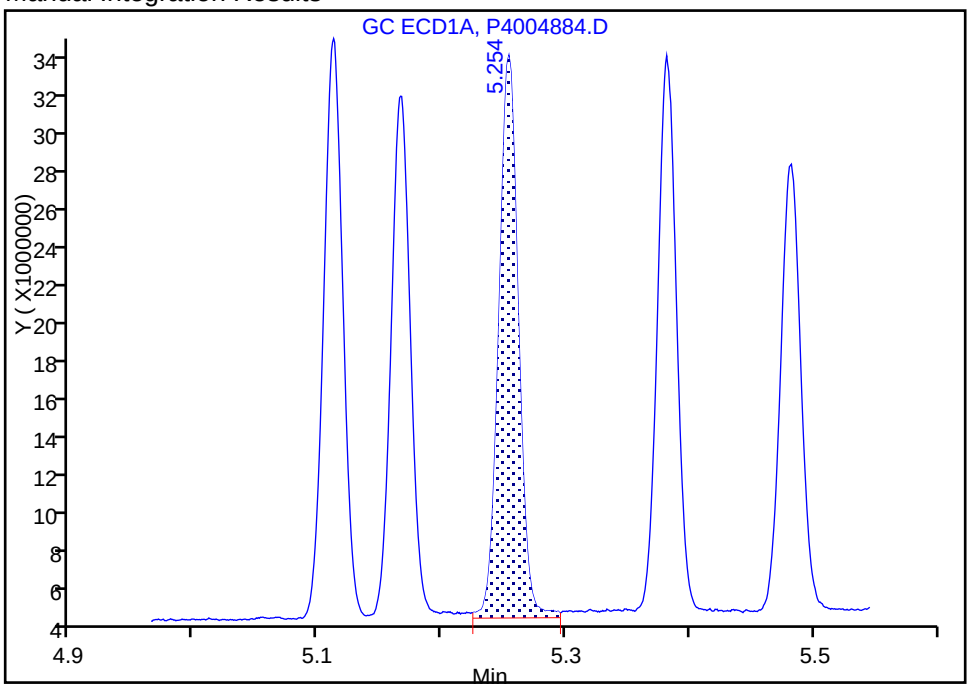
Processing Integration Results

RT: 5.25
Area: 32677620
Amount: 106.7149
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 32512750
Amount: 106.2910
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:37
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

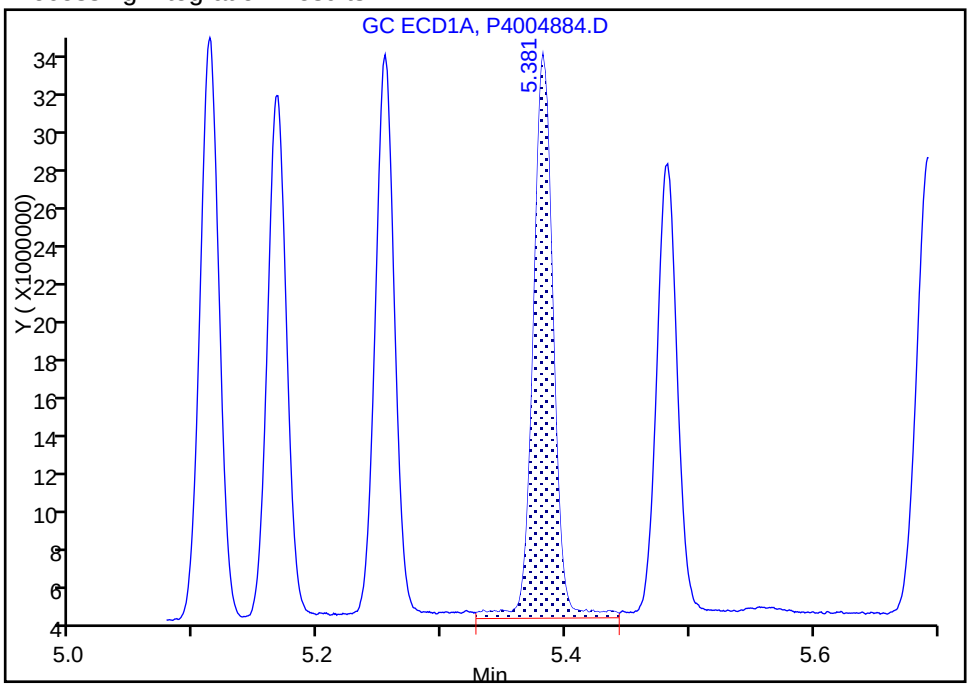
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Injection Date: 27-Sep-2017 08:46:34 Instrument ID: CPESTGC4
Lims ID: STD PESTL3
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

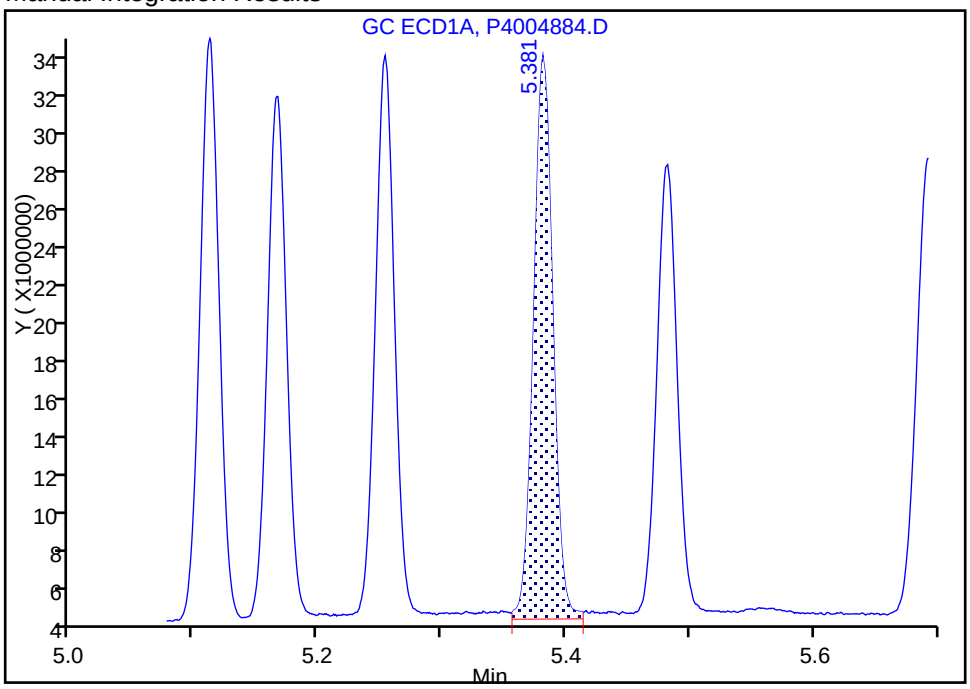
Processing Integration Results

RT: 5.38
Area: 33204597
Amount: 110.1784
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 31987959
Amount: 107.0054
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:33
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

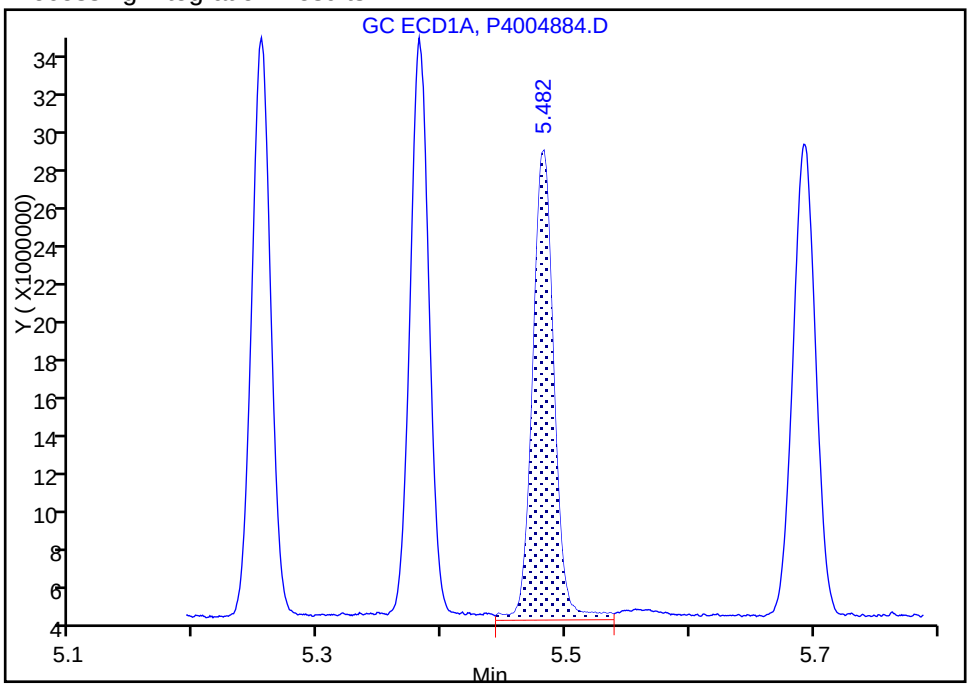
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Injection Date: 27-Sep-2017 08:46:34 Instrument ID: CPESTGC4
Lims ID: STD PESTL3
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

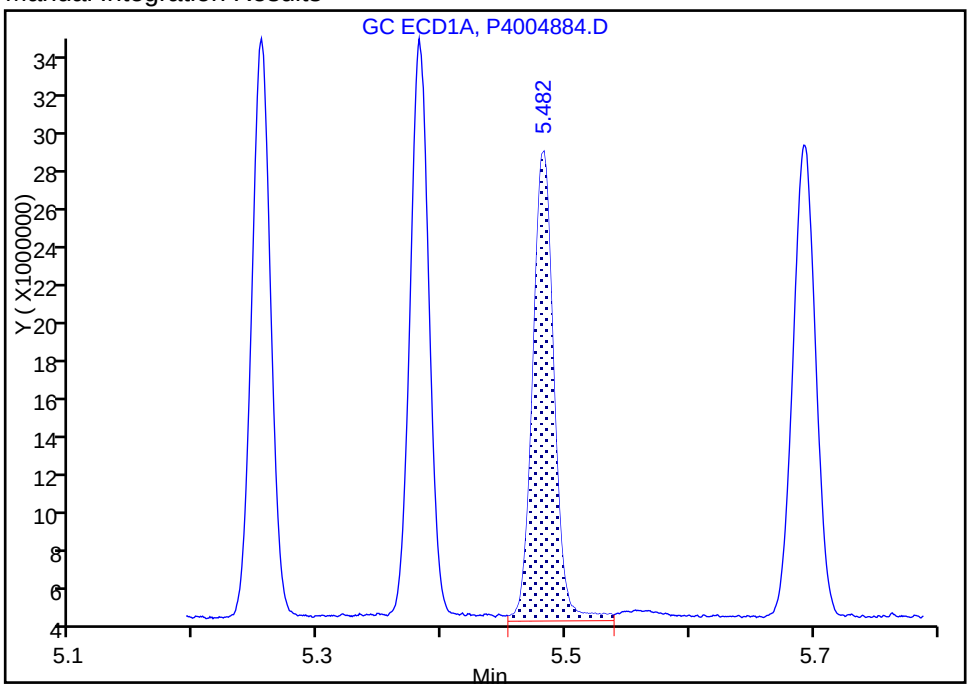
Processing Integration Results

RT: 5.48
Area: 28424606
Amount: 110.2977
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 28247674
Amount: 109.7618
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:31
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

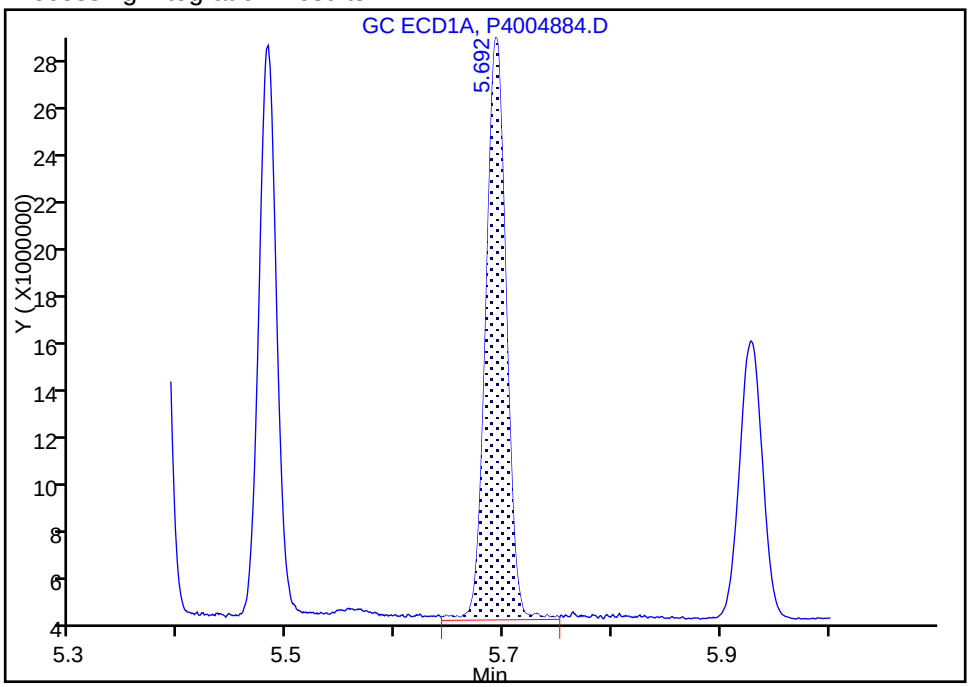
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

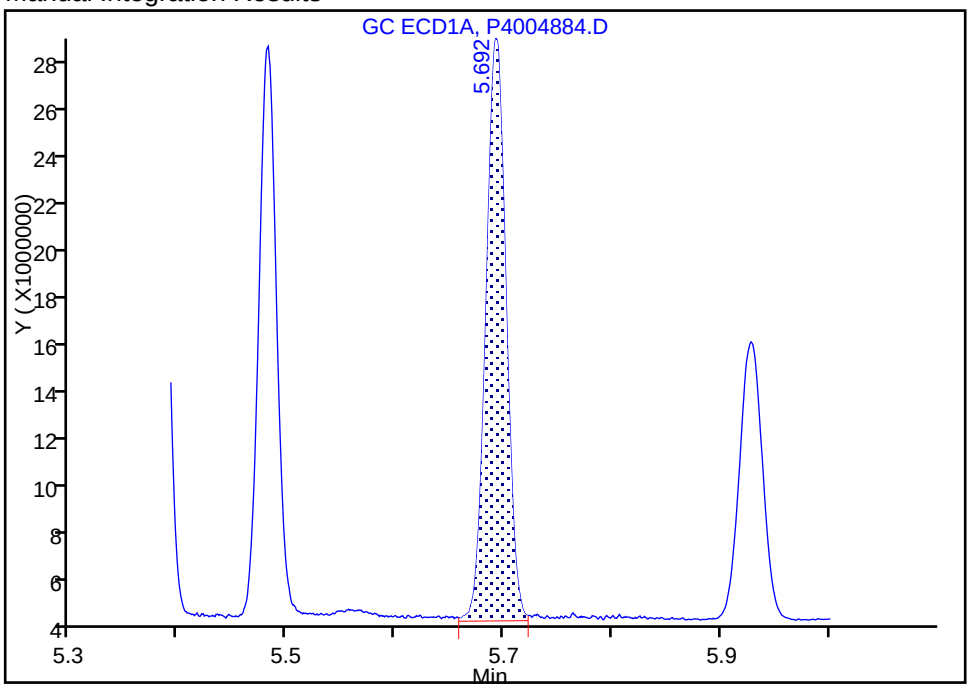
Processing Integration Results

RT: 5.69
Area: 31335378
Amount: 105.7741
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 30913060
Amount: 104.6469
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:35
Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 08:58:46 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-006
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:24 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28287969	100.0	100.0	
2	1.513	1.514	-0.001	38420227	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	43436997	150.0	153.9	
2	1.886	1.887	-0.001	58125825	150.0	159.8	
						RPD = 3.78	
15 alpha-BHC							
1	2.653	2.654	-0.001	95133296	250.0	233.5	
2	2.209	2.210	-0.001	130672962	250.0	246.8	
						RPD = 5.52	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	88938478	250.0	235.1	
2	2.402	2.402	0.000	118246794	250.0	244.6	
						RPD = 3.93	
6 beta-BHC							
1	2.970	2.970	0.000	37933647	250.0	229.7	
2	2.449	2.449	0.000	49510009	250.0	236.3	
						RPD = 2.85	
32 delta-BHC							
1	3.220	3.220	0.000	89965643	250.0	233.2	
2	2.565	2.565	0.000	118490453	250.0	245.4	
						RPD = 5.10	
18 Heptachlor							
1	3.296	3.297	-0.001	86364255	250.0	230.3	
2	2.700	2.700	0.000	112872805	250.0	237.9	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	79920244	250.0	226.0	
2	2.907	2.907	0.000	102831108	250.0	234.2	
						RPD = 3.54	
12 Heptachlor epoxide							M
1	4.212	4.211	0.001	75424009	250.0	234.3	M
2	3.361	3.362	-0.001	96736728	250.0	233.6	
						RPD = 0.31	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	73419330	250.0	228.0	M
2	3.464	3.464	0.000	96648764	250.0	234.8	
						RPD = 2.96	
23 alpha-Chlordane							M
1	4.581	4.580	0.001	69503361	250.0	228.2	M
2	3.580	3.580	0.000	92611458	250.0	231.5	
						RPD = 1.40	
7 Endosulfan I							M
1	4.651	4.651	0.000	67737216	250.0	229.6	M
2	3.712	3.712	0.000	90713790	250.0	232.3	
						RPD = 1.17	
25 4,4'-DDE							M
1	4.723	4.723	0.000	71287260	250.0	234.5	M
2	3.635	3.634	0.001	94576527	250.0	238.1	
						RPD = 1.55	
30 Dieldrin							M
1	4.888	4.887	0.001	75827707	250.0	234.9	M
2	3.946	3.946	0.000	102621982	250.0	237.9	
						RPD = 1.25	
20 Endrin							M
1	5.112	5.112	0.000	67577298	250.0	236.6	M
2	4.201	4.200	0.001	93769443	250.0	235.0	
						RPD = 0.70	
16 4,4'-DDD							M
1	5.166	5.166	0.000	60672774	250.0	238.4	M
2	4.256	4.256	0.000	82580735	250.0	238.4	
						RPD = 0.01	
11 Endosulfan II							M
1	5.254	5.254	0.000	65092408	250.0	236.5	M
2	4.440	4.439	0.001	88264400	250.0	234.2	
						RPD = 0.98	
21 4,4'-DDT							M
1	5.382	5.381	0.001	64186095	250.0	238.6	M
2	4.557	4.557	0.000	86571844	250.0	241.0	
						RPD = 0.98	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	54582165	250.0	235.7	M
2	4.836	4.835	0.001	75170596	250.0	239.1	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.693	5.692	0.001	62190154	250.0	234.0	M
2	5.143	5.143	0.000	90883527	250.0	236.4	
						RPD = 1.02	
10 Methoxychlor							
1	5.928	5.928	0.000	34556840	250.0	235.4	
2	4.970	4.969	0.001	47082647	250.0	233.9	
						RPD = 0.63	
34 Mirex							M
1	6.134	6.133	0.001	46437684	250.0	247.0	M
2	5.065	5.065	0.000	67254686	250.0	243.6	
						RPD = 1.35	
13 Endrin ketone							M
1	6.170	6.169	0.001	70677969	250.0	236.1	M
2	5.324	5.323	0.001	102539557	250.0	235.8	
						RPD = 0.11	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	33167313	150.0	158.8	
2	6.117	6.117	0.000	54260076	150.0	155.9	
						RPD = 1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

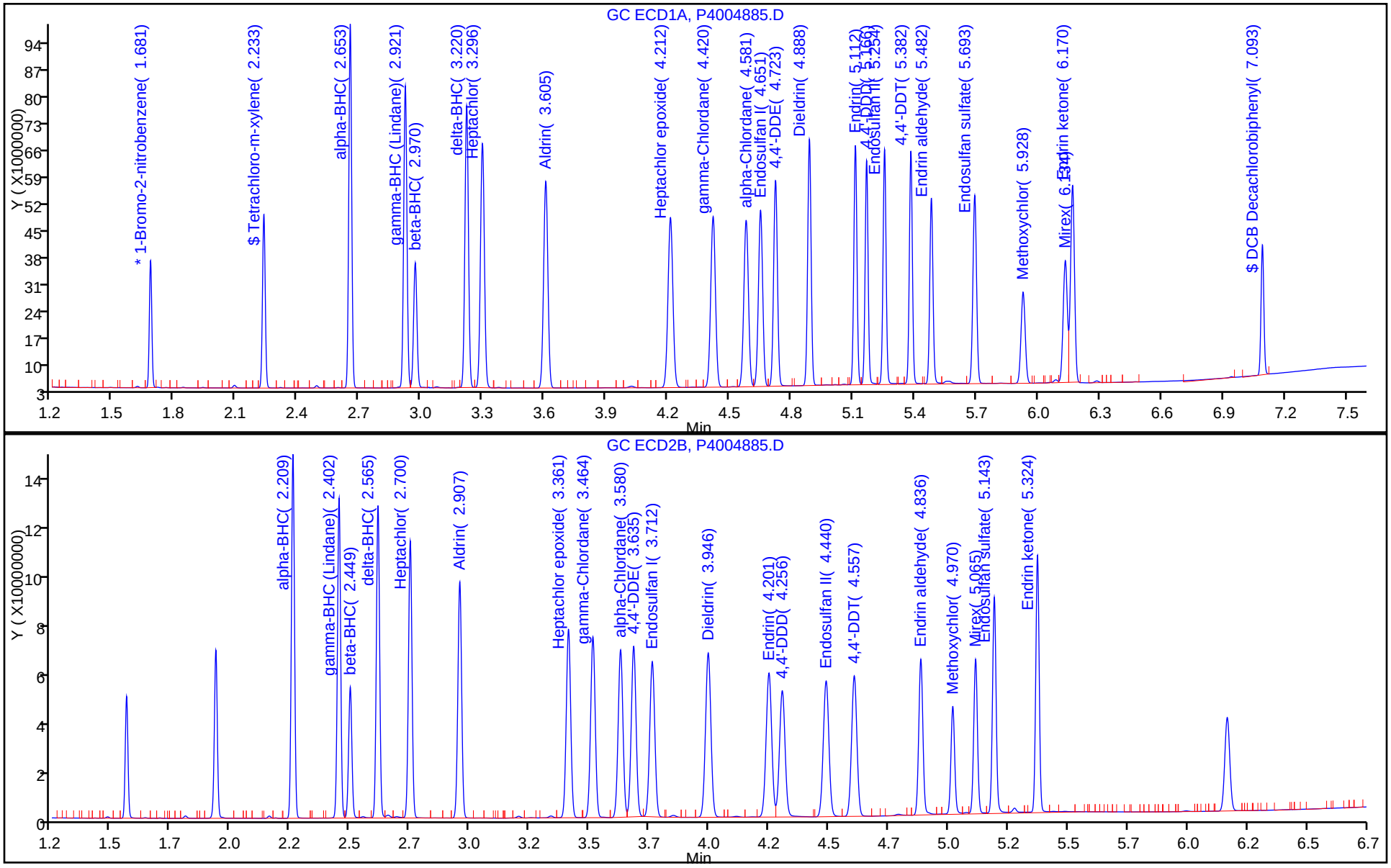
SGPESTL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D

Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

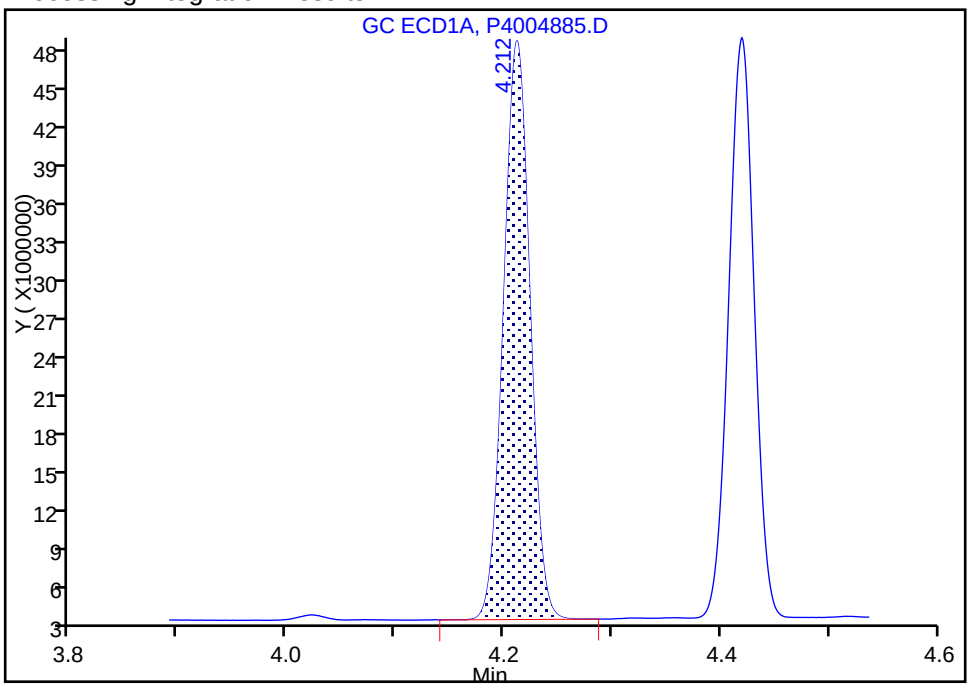
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

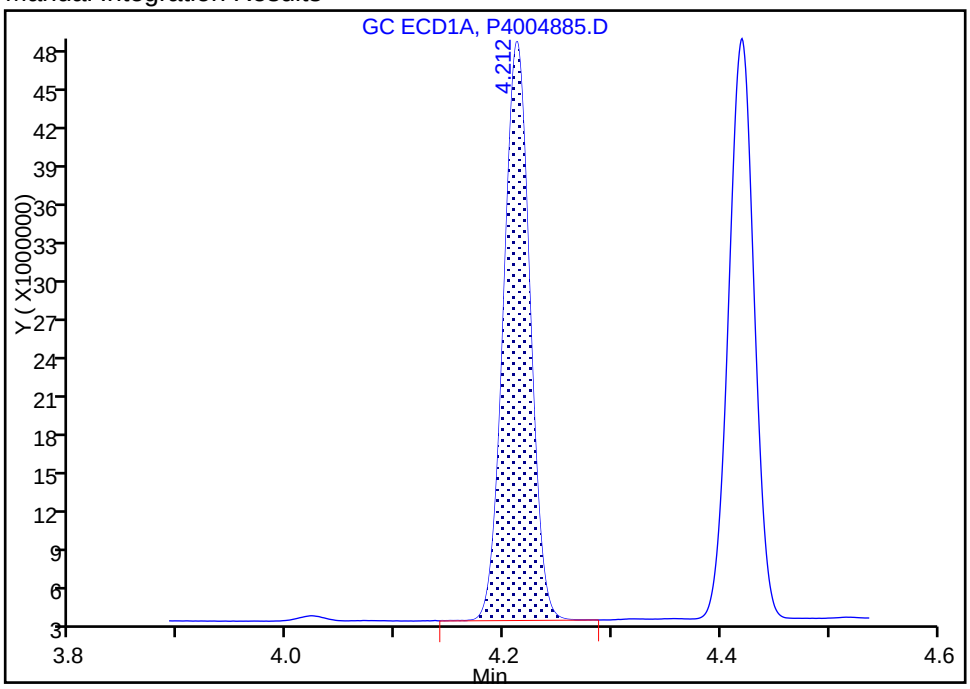
Processing Integration Results

RT: 4.21
Area: 75357230
Amount: 224.9600
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 75424009
Amount: 234.3403
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

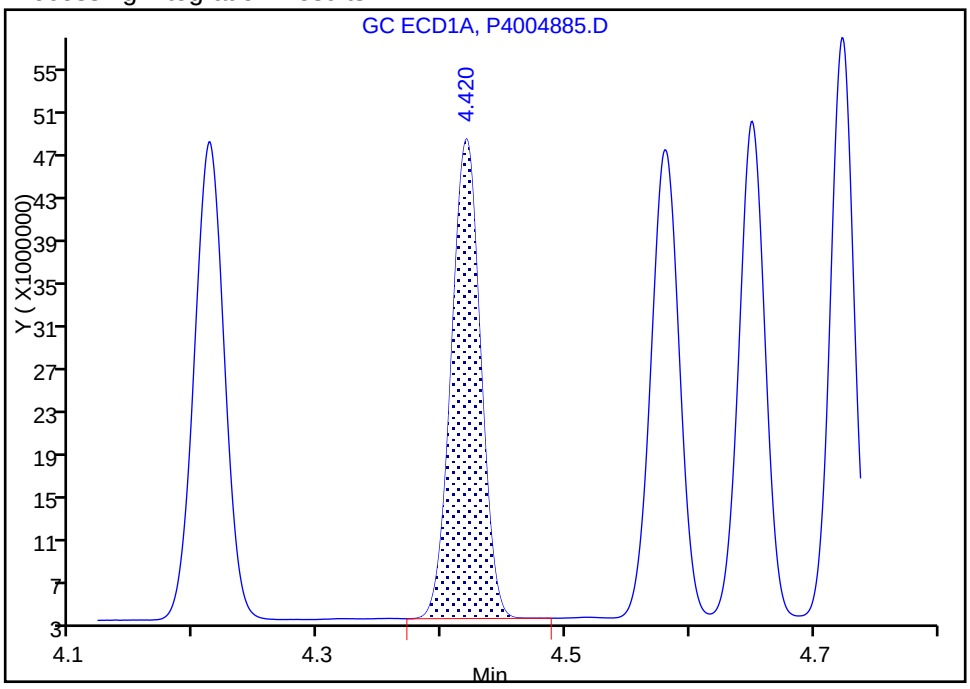
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

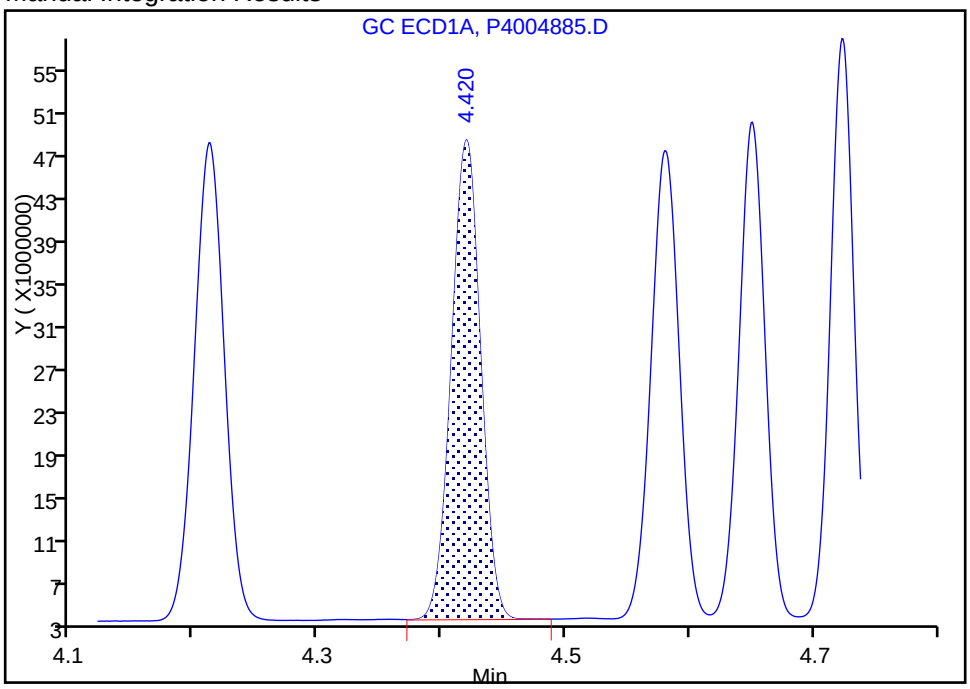
Processing Integration Results

RT: 4.42
Area: 73242416
Amount: 223.6962
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 73419330
Amount: 227.9990
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

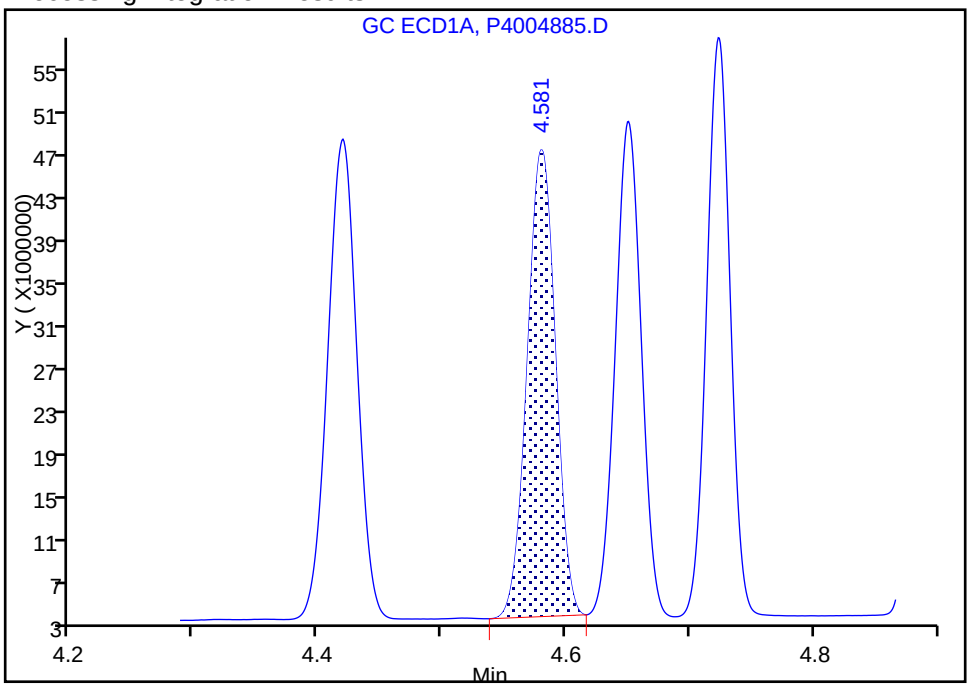
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

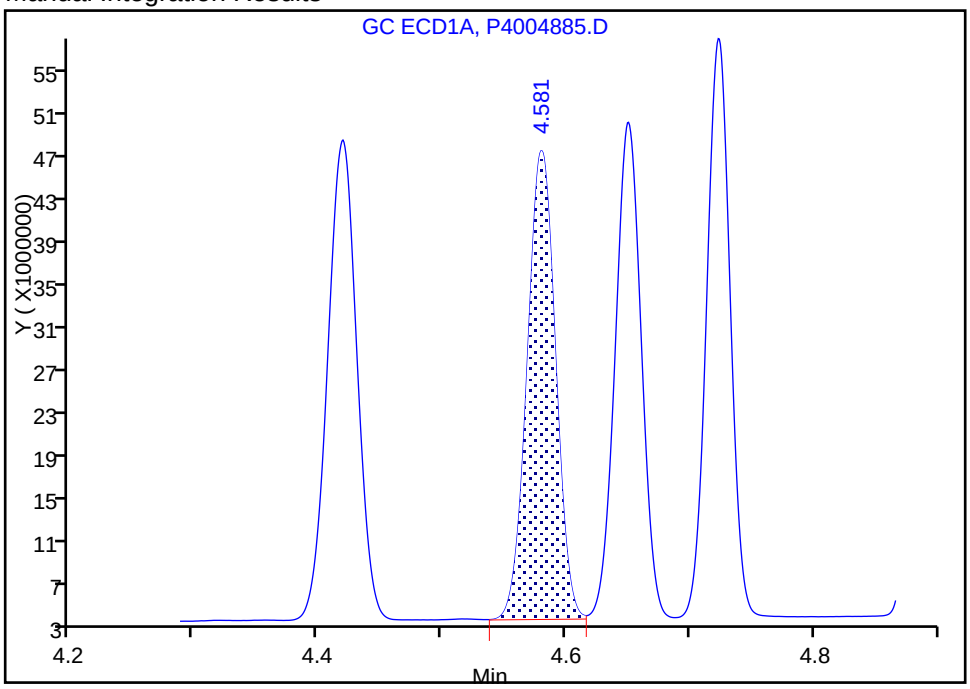
Processing Integration Results

RT: 4.58
Area: 68685500
Amount: 226.1894
Amount Units: ug/l



Manual Integration Results

RT: 4.58
Area: 69503361
Amount: 228.2422
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

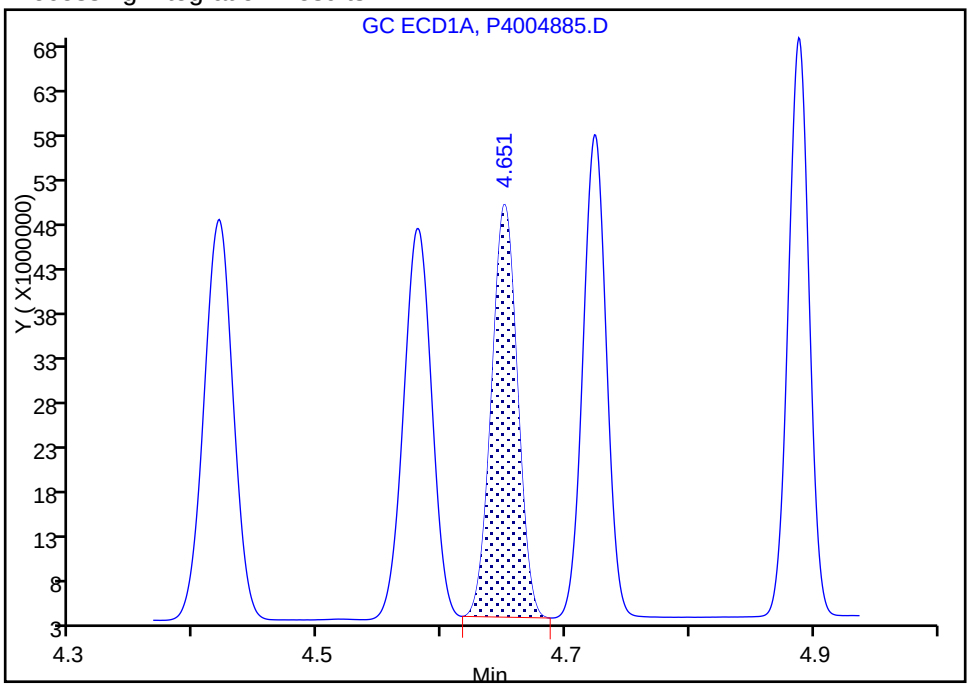
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

7 Endosulfan I, CAS: 959-98-8

Signal: 1

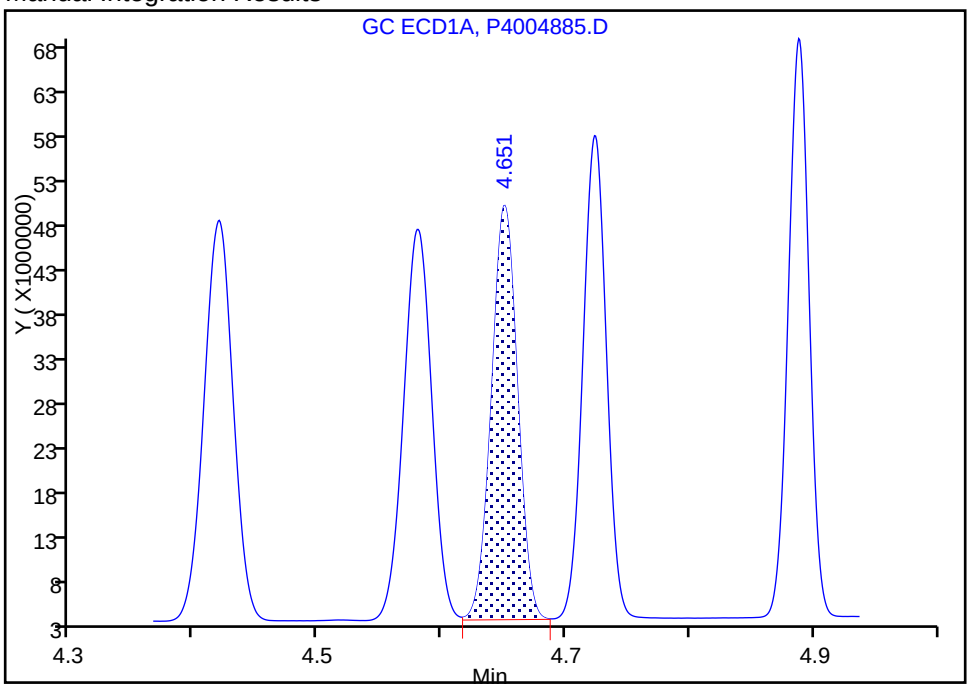
Processing Integration Results

RT: 4.65
Area: 66957649
Amount: 227.6250
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 67737216
Amount: 229.5891
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

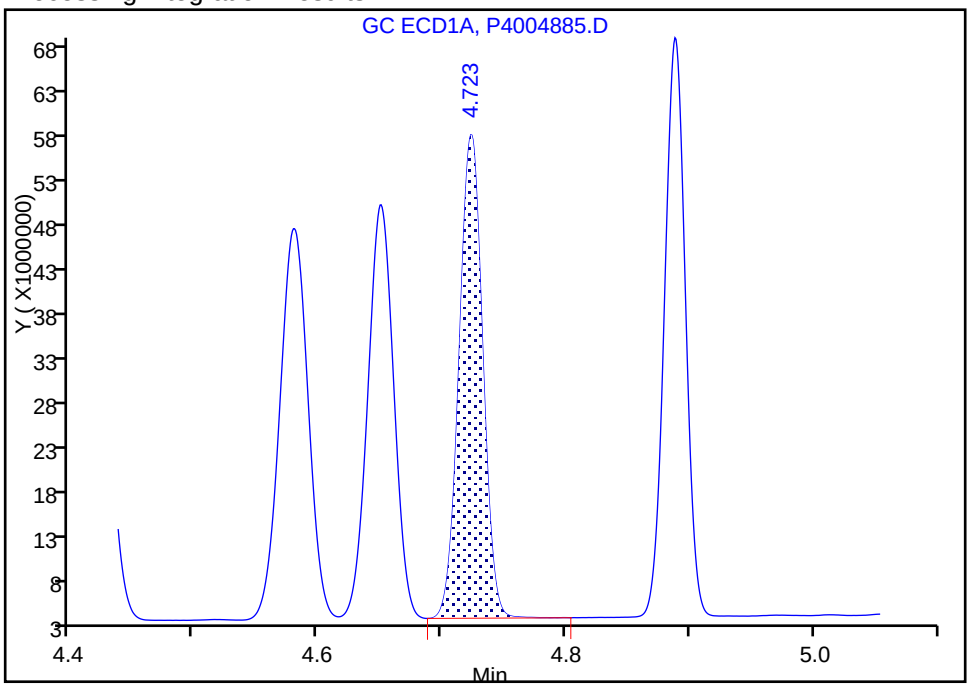
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

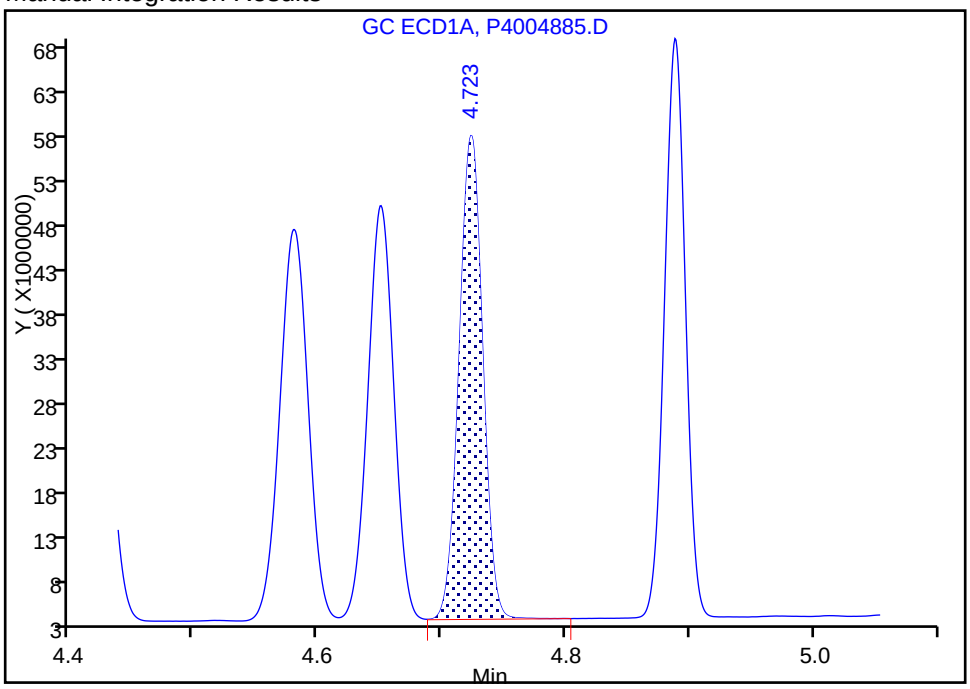
Processing Integration Results

RT: 4.72
Area: 71116849
Amount: 231.7376
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 71287260
Amount: 234.4879
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:01:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

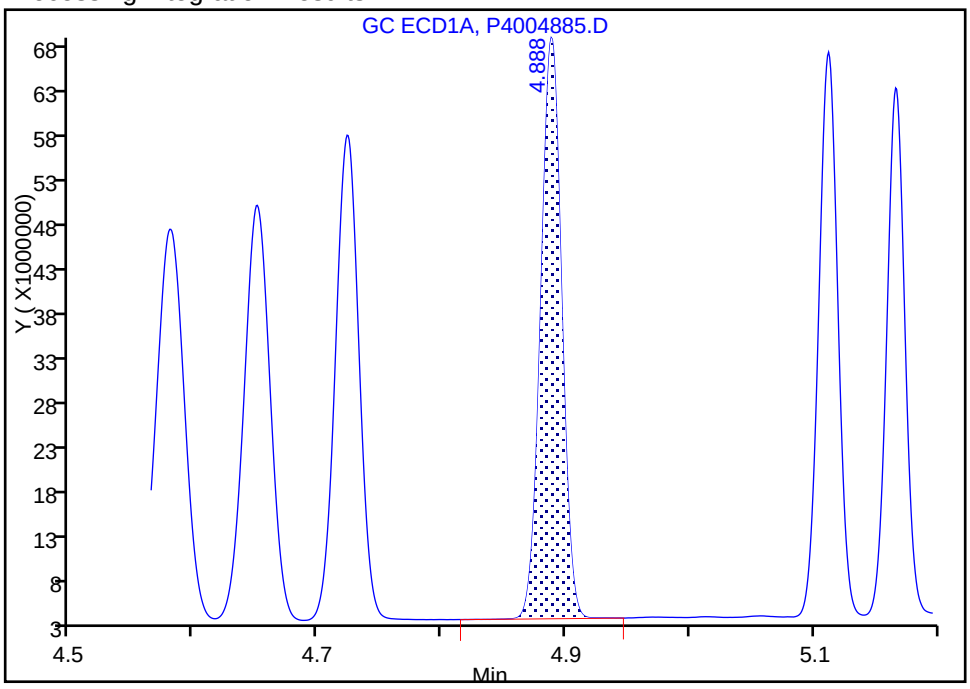
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

30 Dieldrin, CAS: 60-57-1

Signal: 1

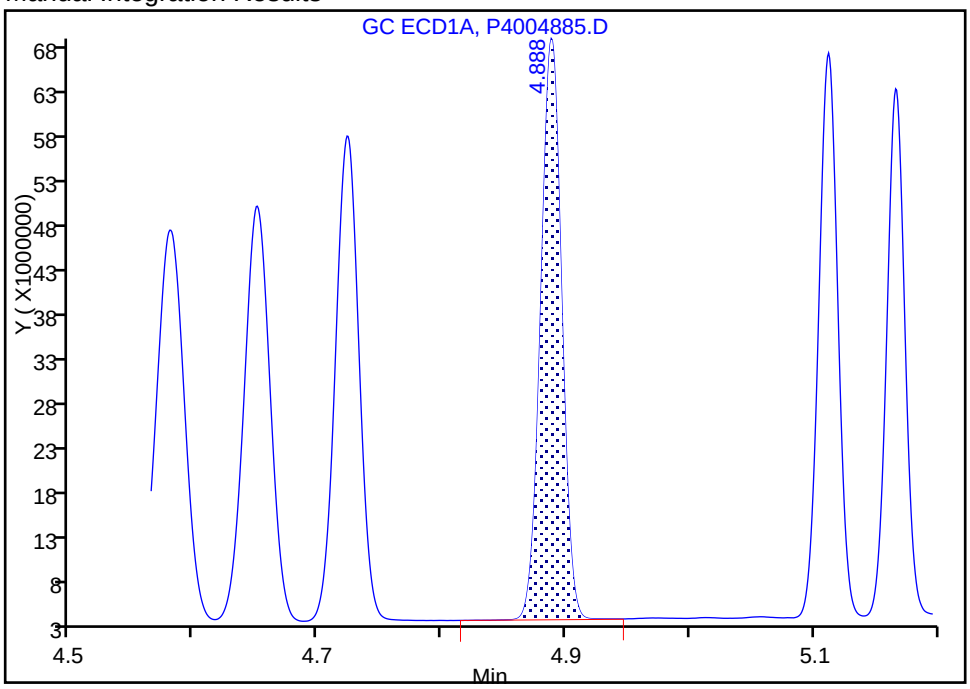
Processing Integration Results

RT: 4.89
Area: 75728578
Amount: 231.0726
Amount Units: ug/l



Manual Integration Results

RT: 4.89
Area: 75827707
Amount: 234.9335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:55:22
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

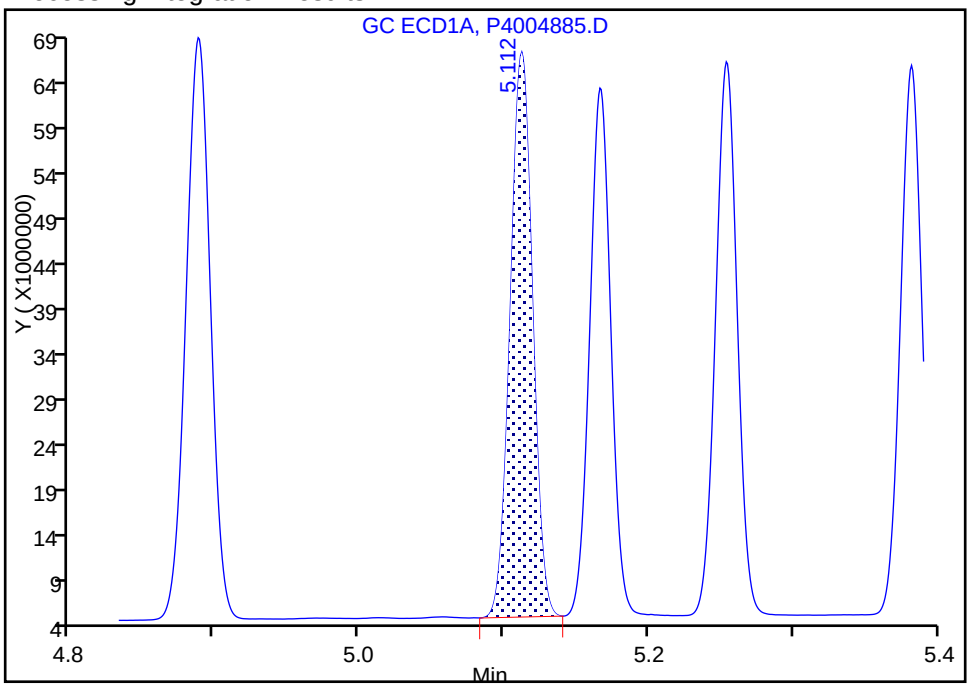
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

20 Endrin, CAS: 72-20-8

Signal: 1

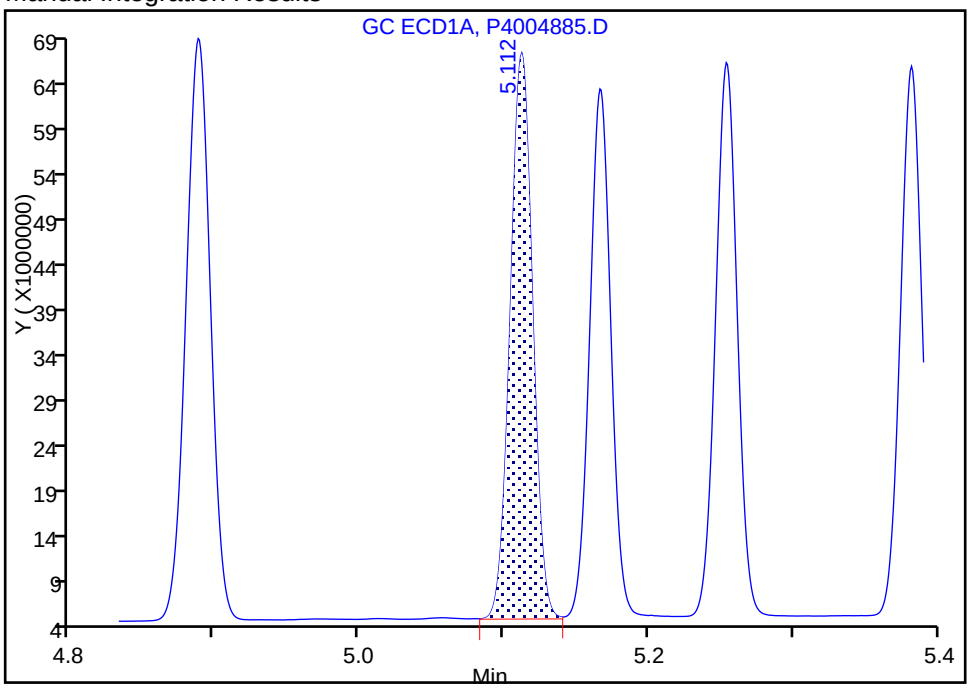
Processing Integration Results

RT: 5.11
Area: 67146450
Amount: 233.9652
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 67577298
Amount: 236.6458
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

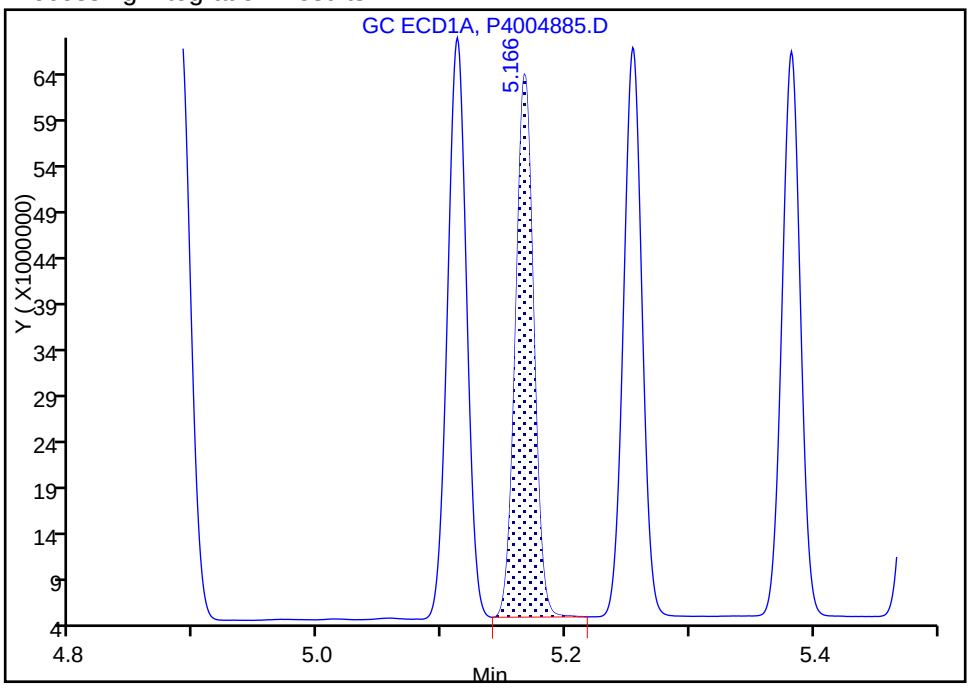
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

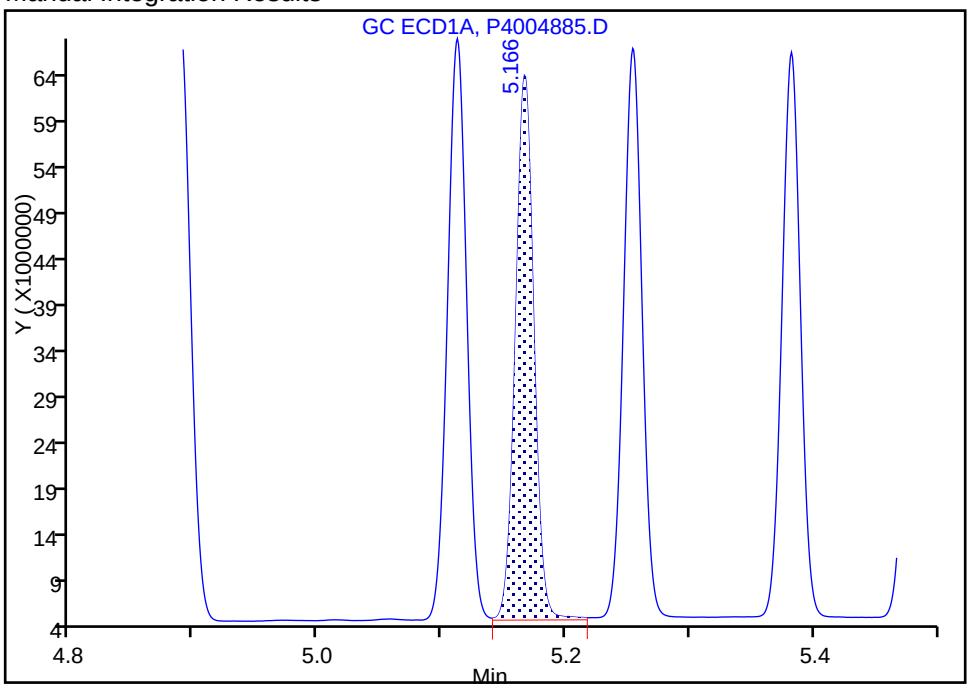
Processing Integration Results

RT: 5.17
Area: 59650130
Amount: 234.6570
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 60672774
Amount: 238.4326
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

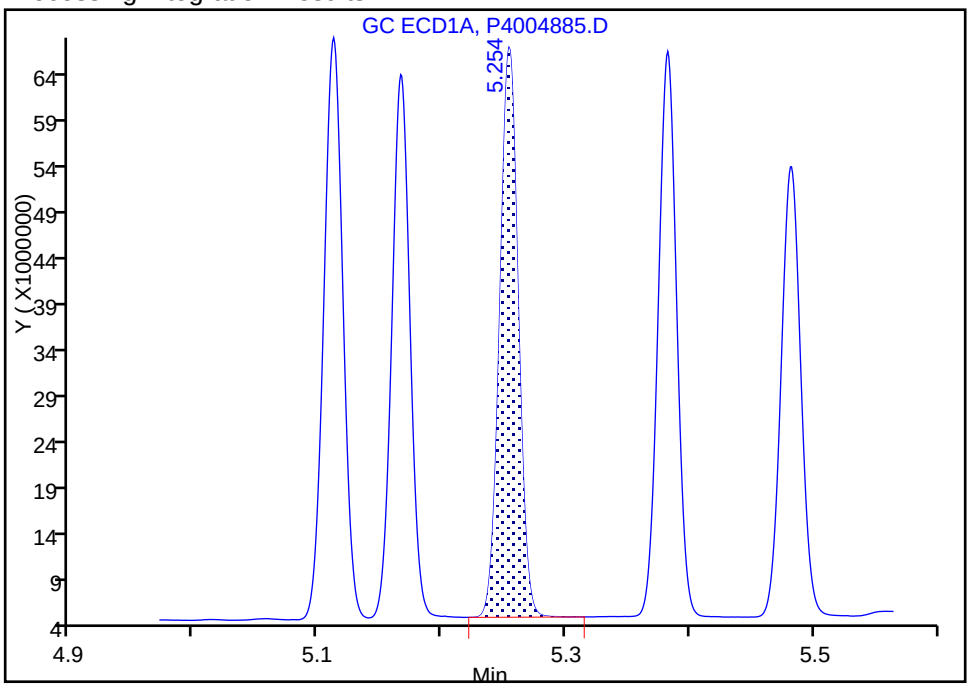
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

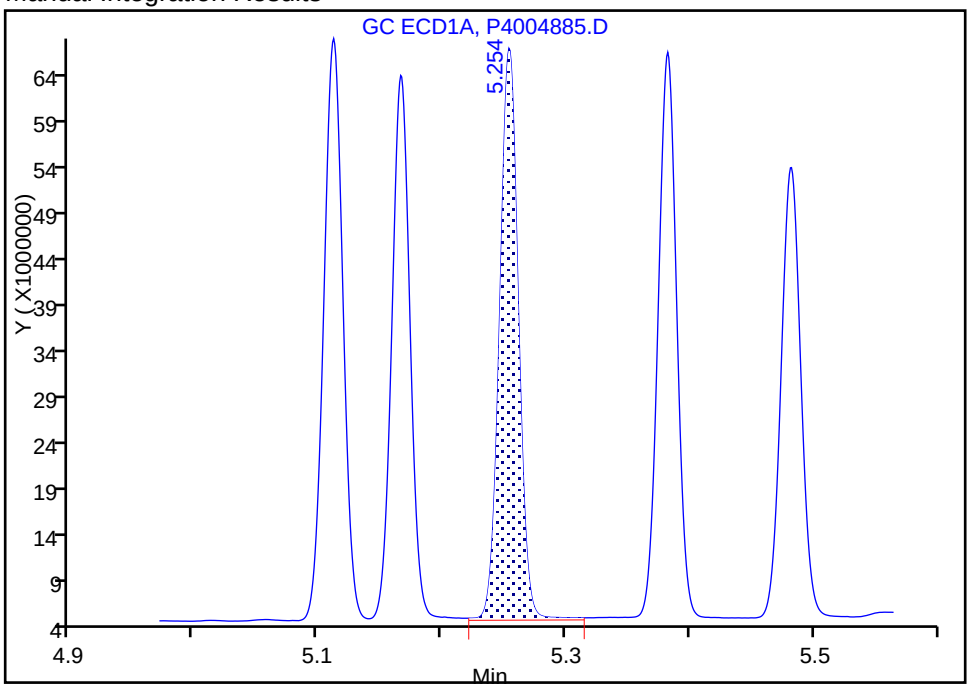
Processing Integration Results

RT: 5.25
Area: 63829568
Amount: 228.4726
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 65092408
Amount: 236.5168
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

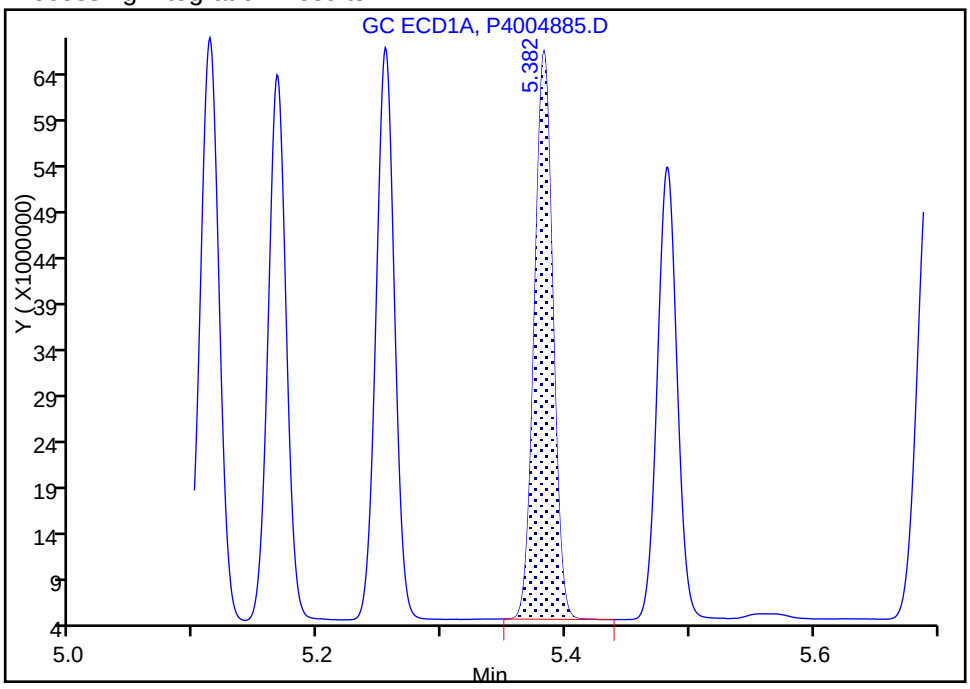
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

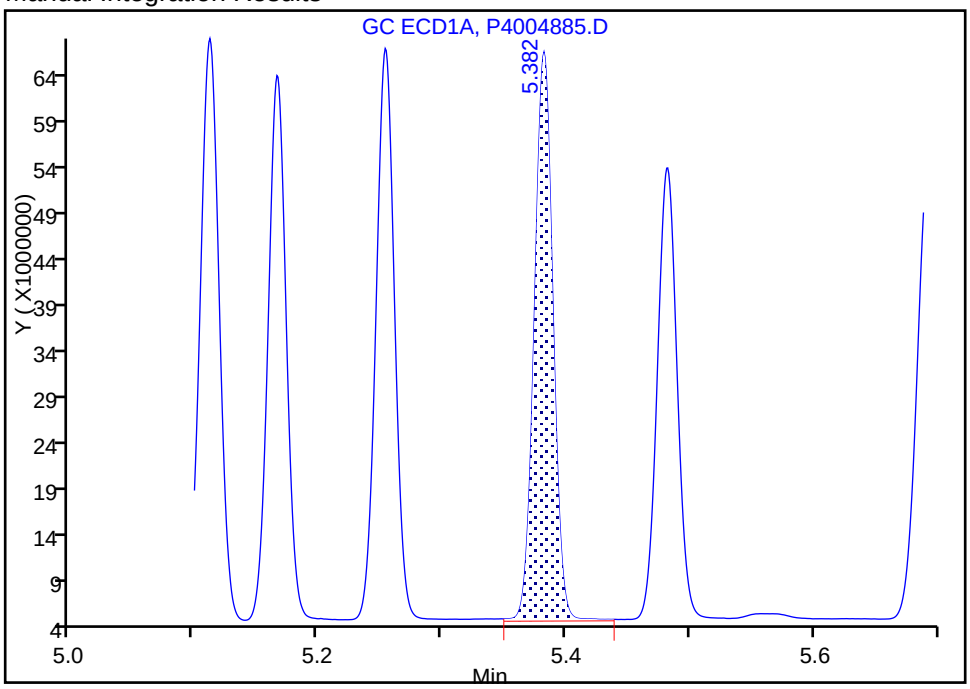
Processing Integration Results

RT: 5.38
Area: 63143434
Amount: 226.3112
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 64186095
Amount: 238.6431
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

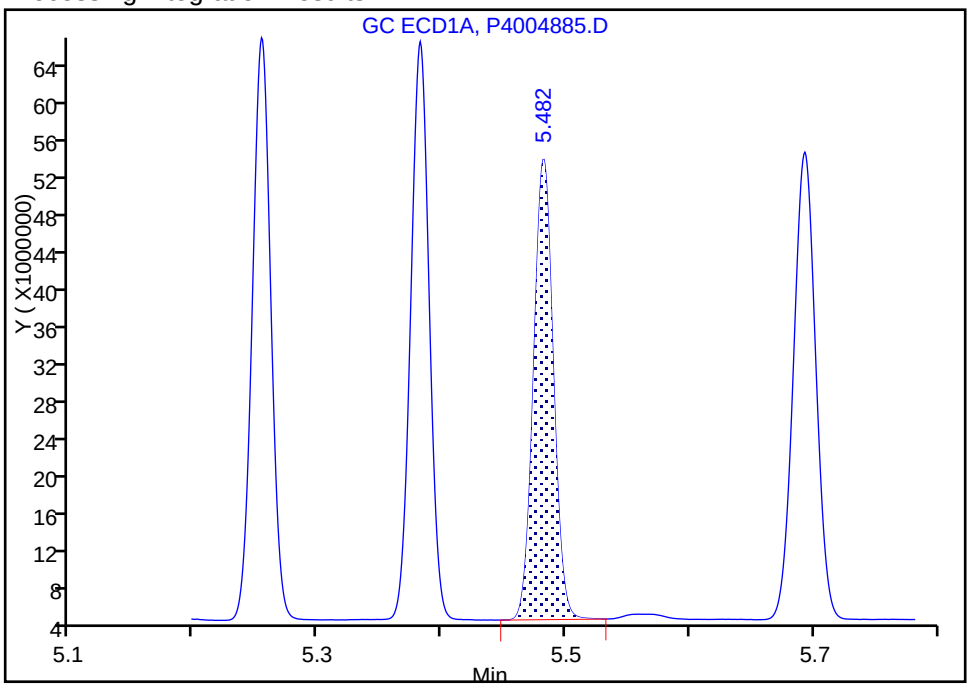
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Injection Date: 27-Sep-2017 08:58:46 Instrument ID: CPESTGC4
Lims ID: STD PESTL4
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

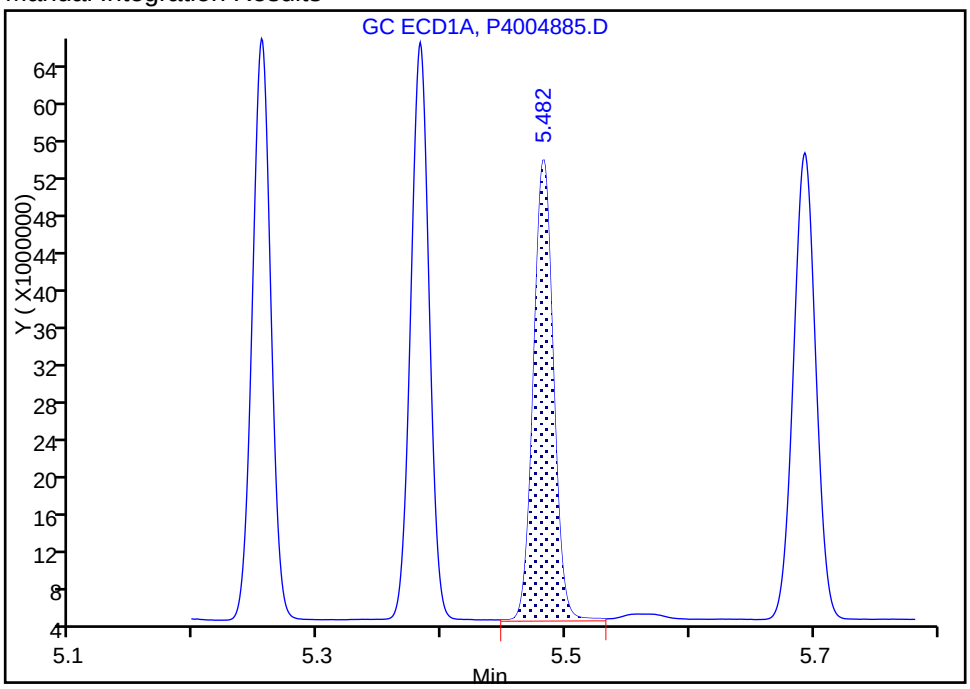
Processing Integration Results

RT: 5.48
Area: 53716425
Amount: 228.1804
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 54582165
Amount: 235.7265
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

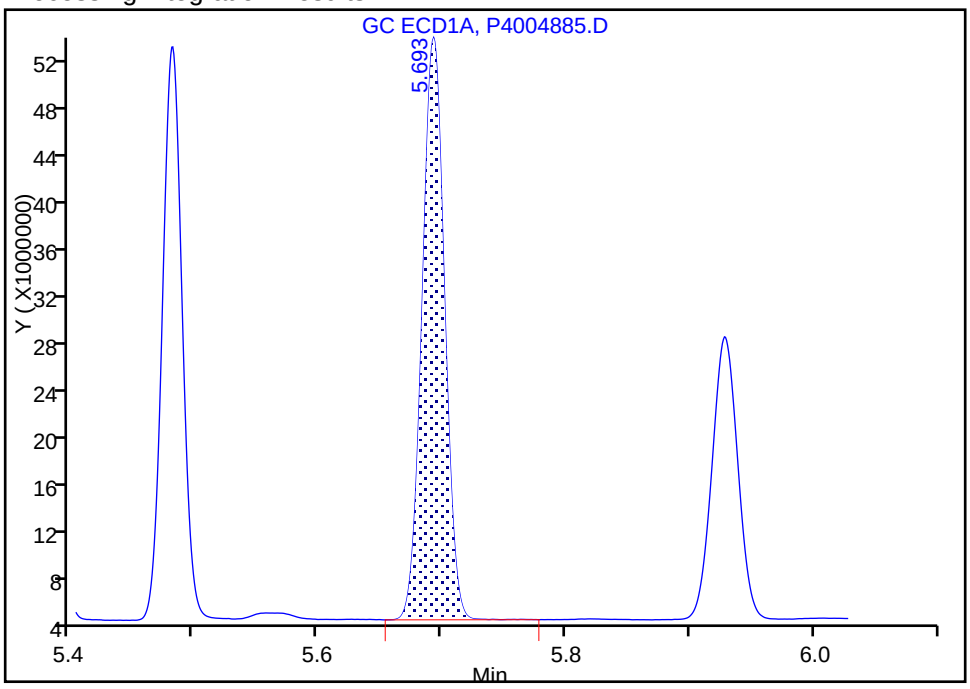
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

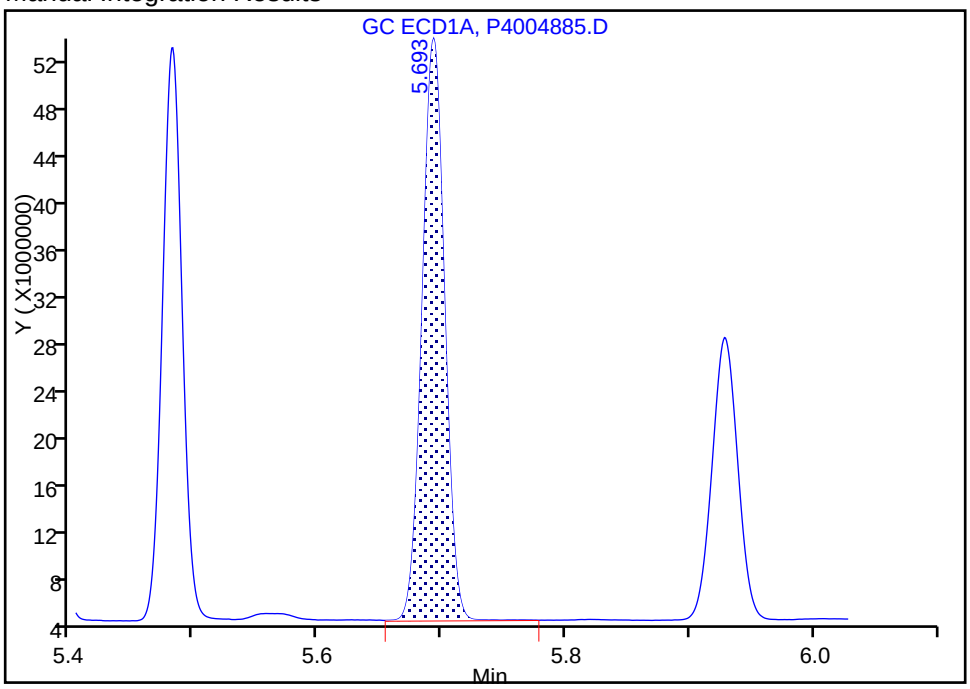
Processing Integration Results

RT: 5.69
Area: 61852174
Amount: 232.2893
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 62190154
Amount: 233.9888
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:11

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

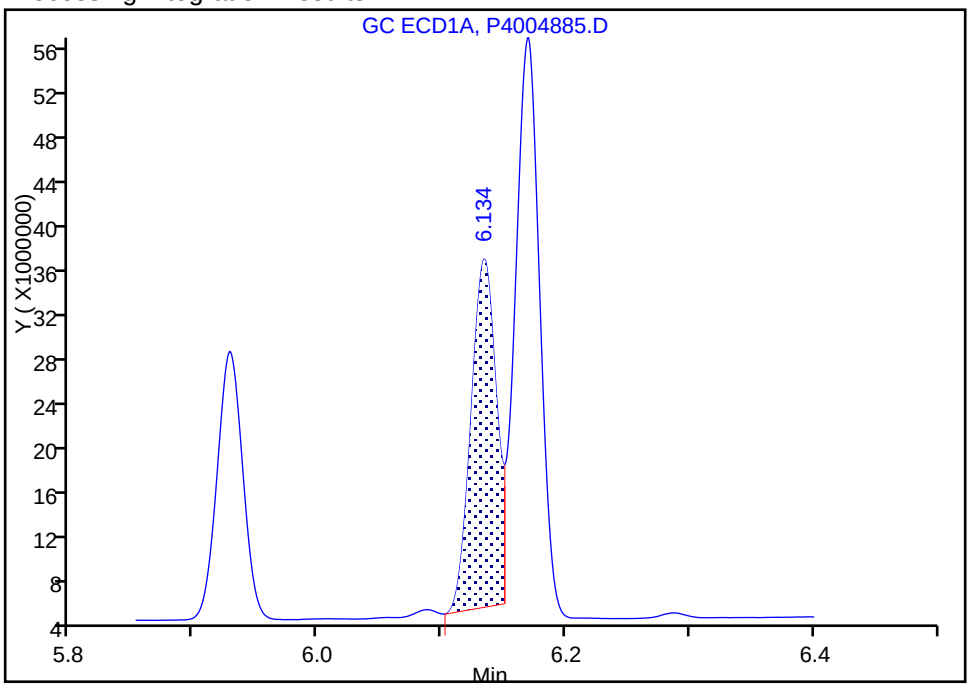
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D		
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4
Lims ID:	STD PESTL4		
Client ID:			
Operator ID:		ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

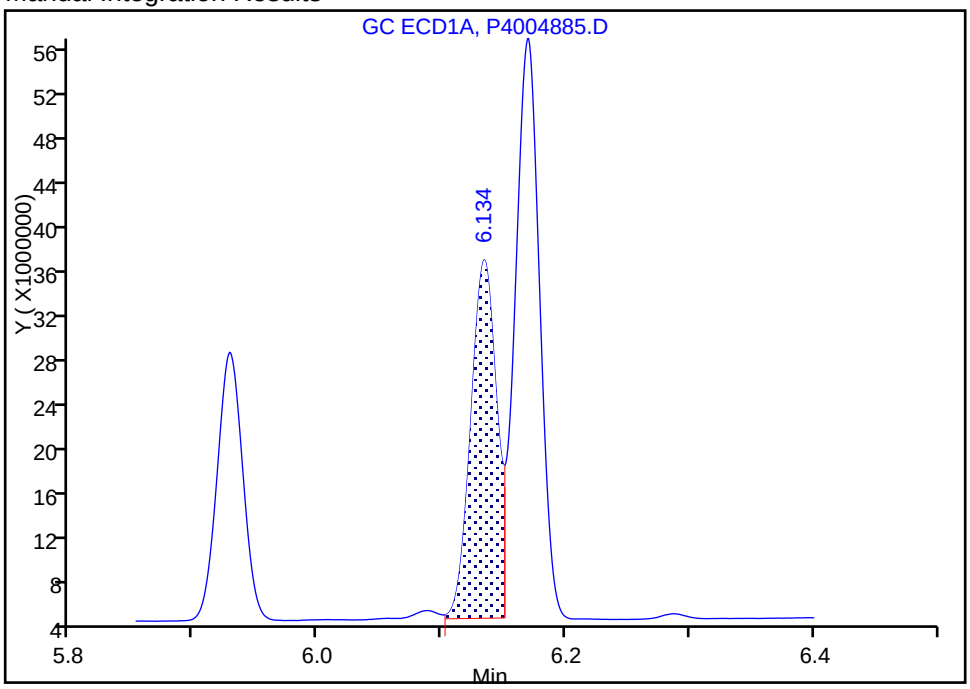
Processing Integration Results

RT: 6.13
Area: 44214222
Amount: 258.3237
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 46437684
Amount: 246.9606
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:14

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

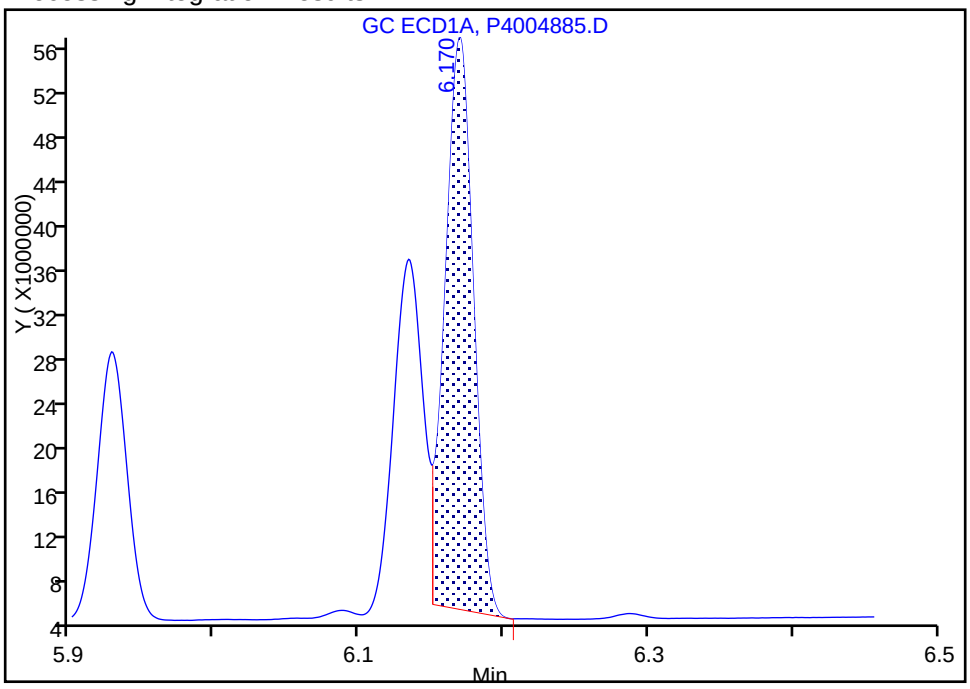
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D				
Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL4				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

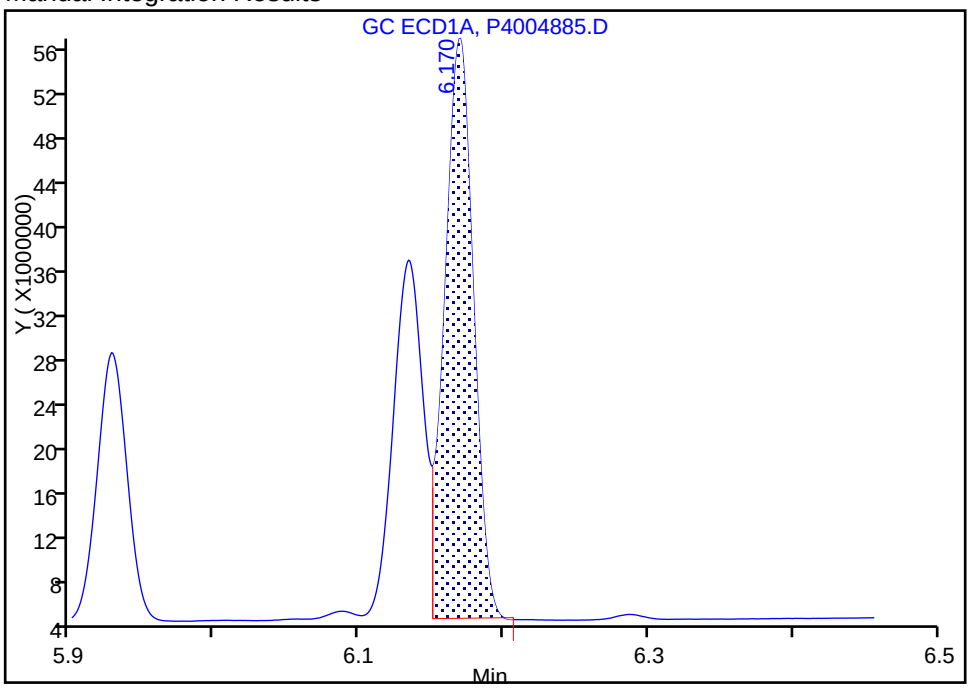
Processing Integration Results

RT: 6.17
Area: 69068656
Amount: 244.3495
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 70677969
Amount: 236.0551
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:57:14

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 09:10:59 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-007
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28810259	100.0	100.0	
2	1.513	1.514	-0.001	38564089	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.232	2.233	-0.001	58517789	200.0	203.5	
2	1.886	1.887	-0.001	78511207	200.0	215.0	
						RPD = 5.49	
15 alpha-BHC							
1	2.652	2.654	-0.002	196927550	500.0	474.7	
2	2.209	2.210	-0.001	267362879	500.0	503.1	
						RPD = 5.81	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	182445699	500.0	473.6	
2	2.402	2.402	0.000	241268187	500.0	497.2	
						RPD = 4.85	
6 beta-BHC							
1	2.969	2.970	-0.001	75403540	500.0	448.3	
2	2.449	2.449	0.000	98087924	500.0	466.4	
						RPD = 3.97	
32 delta-BHC							
1	3.220	3.220	0.000	185126474	500.0	471.2	
2	2.565	2.565	0.000	242975044	500.0	501.4	
						RPD = 6.21	
18 Heptachlor							
1	3.296	3.297	-0.001	177024434	500.0	463.4	
2	2.700	2.700	0.000	230230609	500.0	483.5	
						RPD = 4.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.604	3.605	-0.001	163104958	500.0	452.9	
2	2.906	2.907	-0.001	210299860	500.0	477.1	
						RPD = 5.21	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	152479122	500.0	465.2	
2	3.361	3.362	-0.001	196270296	500.0	472.2	
						RPD = 1.51	
9 gamma-Chlordane							M
1	4.417	4.420	-0.003	150086696	500.0	457.6	M
2	3.463	3.464	-0.001	197305184	500.0	477.6	
						RPD = 4.28	
23 alpha-Chlordane							M
1	4.580	4.580	0.000	142847352	500.0	460.6	M
2	3.579	3.580	-0.001	189103626	500.0	470.8	
						RPD = 2.20	
7 Endosulfan I							M
1	4.649	4.651	-0.002	139163926	500.0	463.1	M
2	3.711	3.712	-0.001	185201648	500.0	472.5	
						RPD = 1.99	
25 4,4'-DDE							M
1	4.721	4.723	-0.002	147238748	500.0	475.5	M
2	3.633	3.634	-0.001	195418561	500.0	490.2	
						RPD = 3.04	
30 Dieldrin							
1	4.887	4.887	0.000	156273747	500.0	475.4	
2	3.945	3.946	-0.001	213186435	500.0	492.4	
						RPD = 3.50	
20 Endrin							M
1	5.111	5.112	-0.001	138200668	500.0	475.2	M
2	4.199	4.200	-0.001	195141671	500.0	487.2	
						RPD = 2.50	
16 4,4'-DDD							M
1	5.166	5.166	0.000	123895825	500.0	478.1	M
2	4.255	4.256	-0.001	172140925	500.0	495.1	
						RPD = 3.50	
11 Endosulfan II							M
1	5.253	5.254	-0.001	131298067	500.0	468.4	M
2	4.438	4.439	-0.001	182111007	500.0	481.4	
						RPD = 2.74	
21 4,4'-DDT							M
1	5.381	5.381	0.000	130809930	500.0	477.5	M
2	4.556	4.557	-0.001	181631574	500.0	503.7	
						RPD = 5.34	
5 Endrin aldehyde							M
1	5.481	5.482	-0.001	109066149	500.0	462.5	M
2	4.835	4.835	0.000	155267812	500.0	492.1	
						RPD = 6.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.692	5.692	0.000	125420628	500.0	463.3	
2	5.142	5.143	-0.001	185597502	500.0	480.9	
						RPD = 3.73	
10 Methoxychlor							
1	5.928	5.928	0.000	69228051	500.0	463.1	
2	4.969	4.969	0.000	96191660	500.0	476.2	
						RPD = 2.79	
34 Mirex							M
1	6.134	6.133	0.001	92553381	500.0	483.3	M
2	5.064	5.065	-0.001	135265212	500.0	488.2	
						RPD = 1.01	
13 Endrin ketone							M
1	6.169	6.169	0.000	145234779	500.0	476.3	M
2	5.323	5.323	0.000	209954229	500.0	481.0	
						RPD = 0.99	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.093	0.001	44320427	200.0	208.4	
2	6.117	6.117	0.000	73442990	200.0	210.2	
						RPD = 0.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

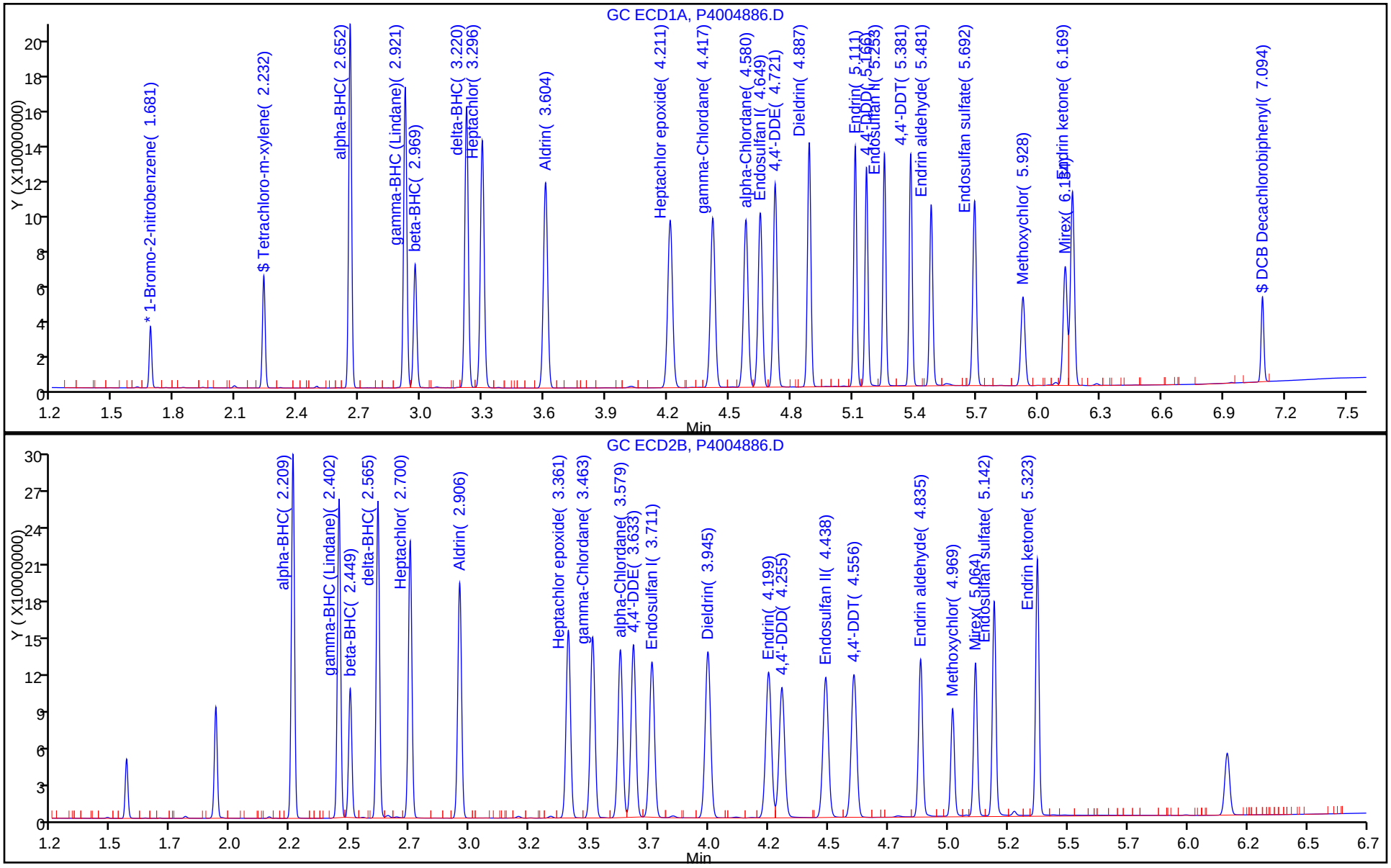
SGPESTL5_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D

Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

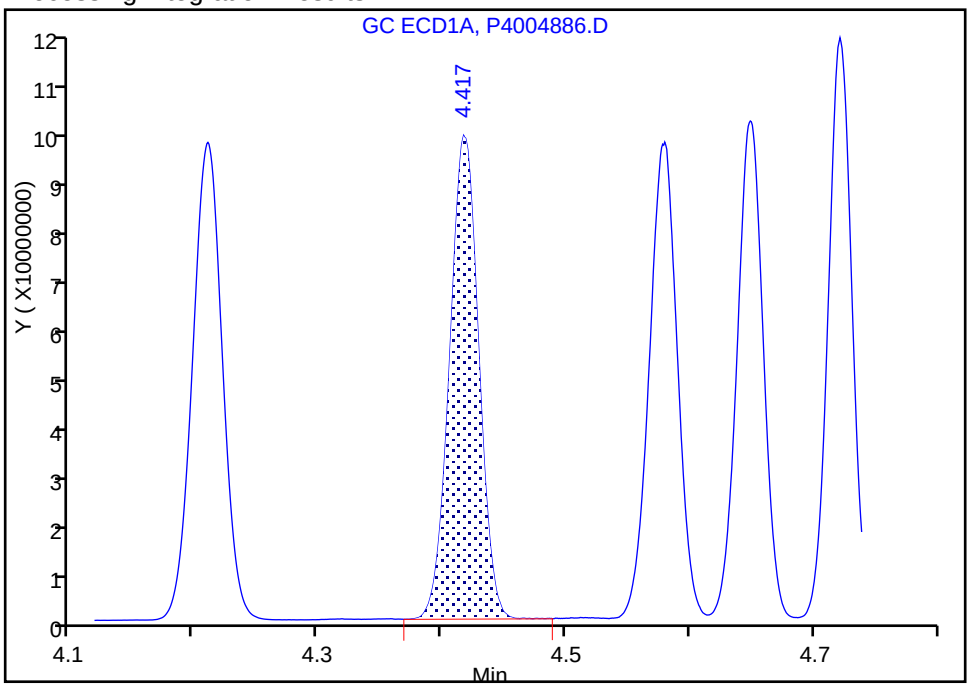
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 1

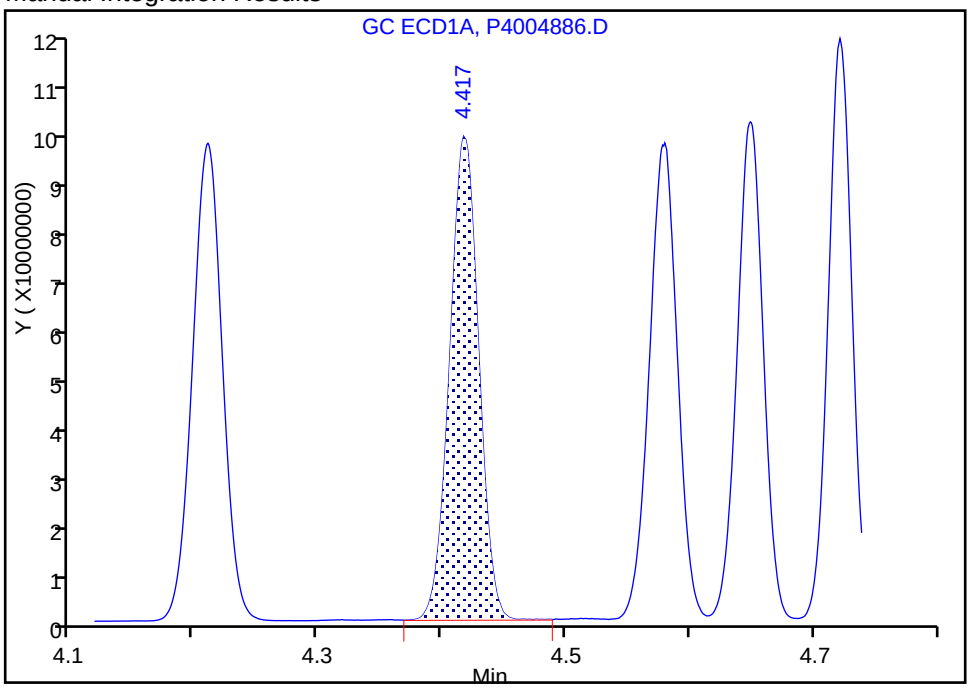
Processing Integration Results

RT: 4.42
Area: 149710360
Amount: 450.3365
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 150086696
Amount: 457.6352
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

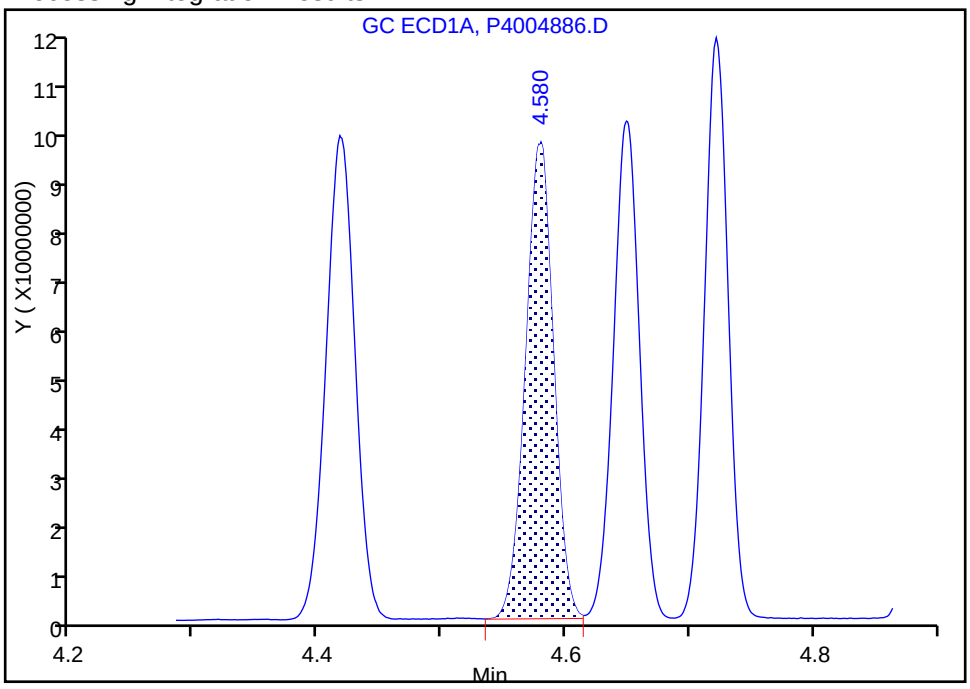
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

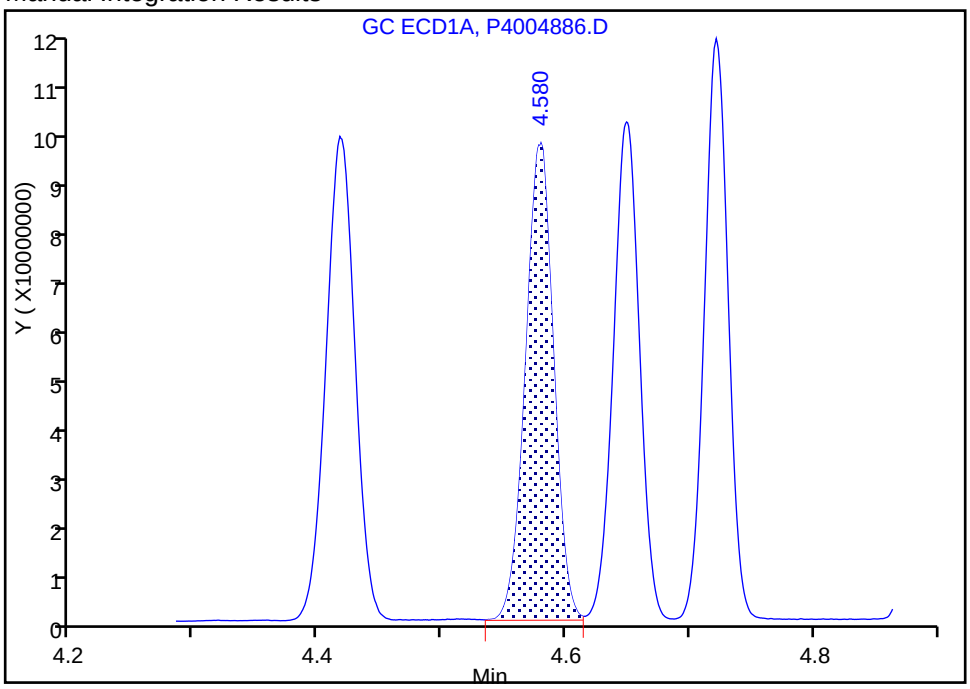
Processing Integration Results

RT: 4.58
Area: 142343574
Amount: 459.2667
Amount Units: ug/l



Manual Integration Results

RT: 4.58
Area: 142847352
Amount: 460.5926
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

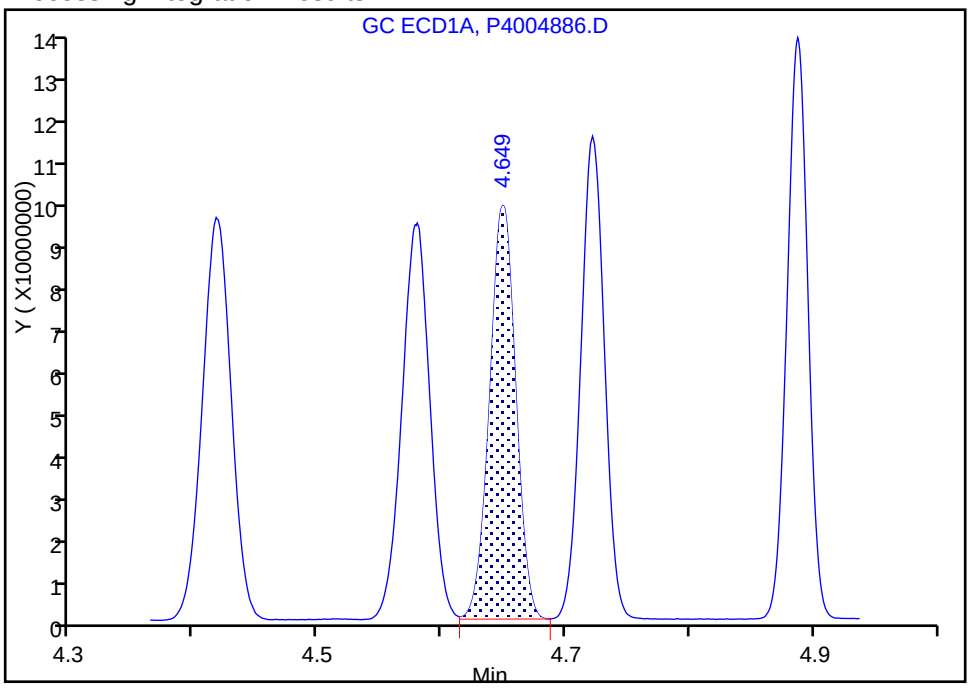
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Injection Date: 27-Sep-2017 09:10:59 Instrument ID: CPESTGC4
Lims ID: STD PESTL5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

7 Endosulfan I, CAS: 959-98-8

Signal: 1

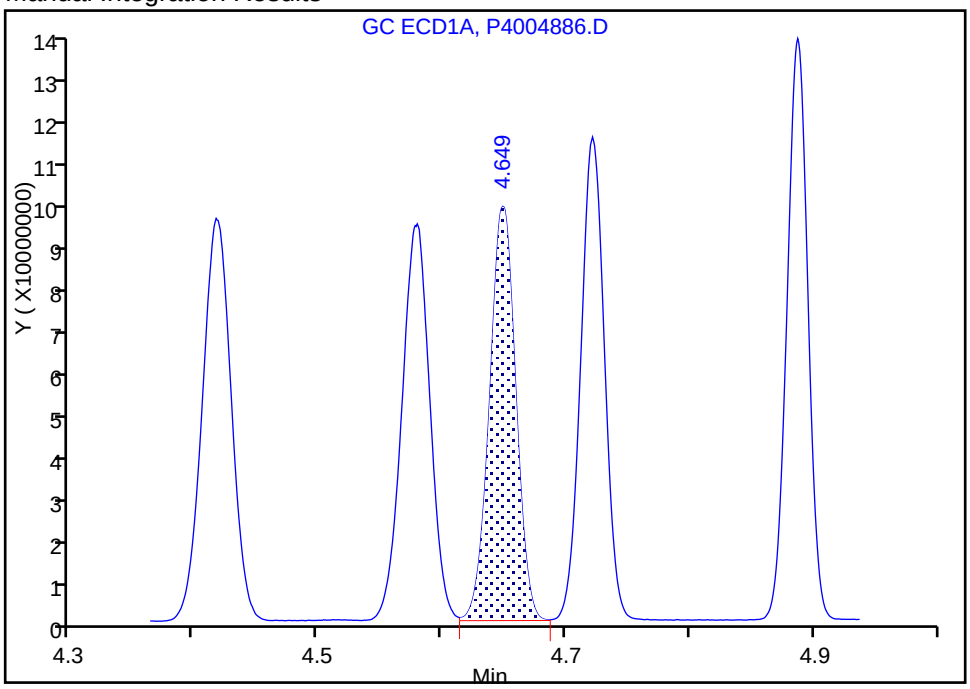
Processing Integration Results

RT: 4.65
Area: 138513709
Amount: 461.3679
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 139163926
Amount: 463.1325
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

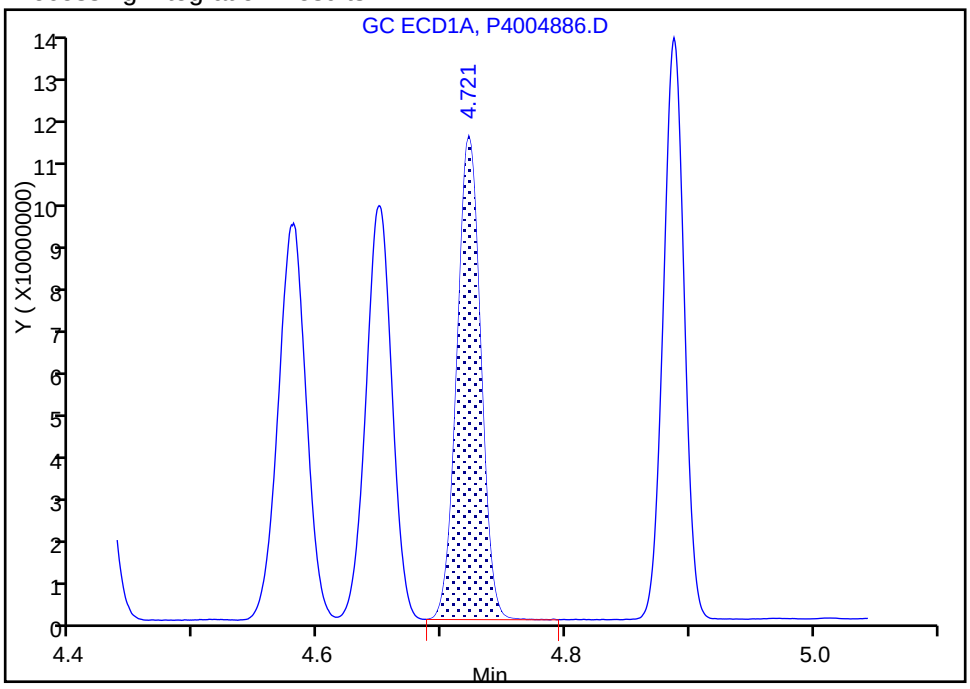
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

25 4,4'-DDE, CAS: 72-55-9

Signal: 1

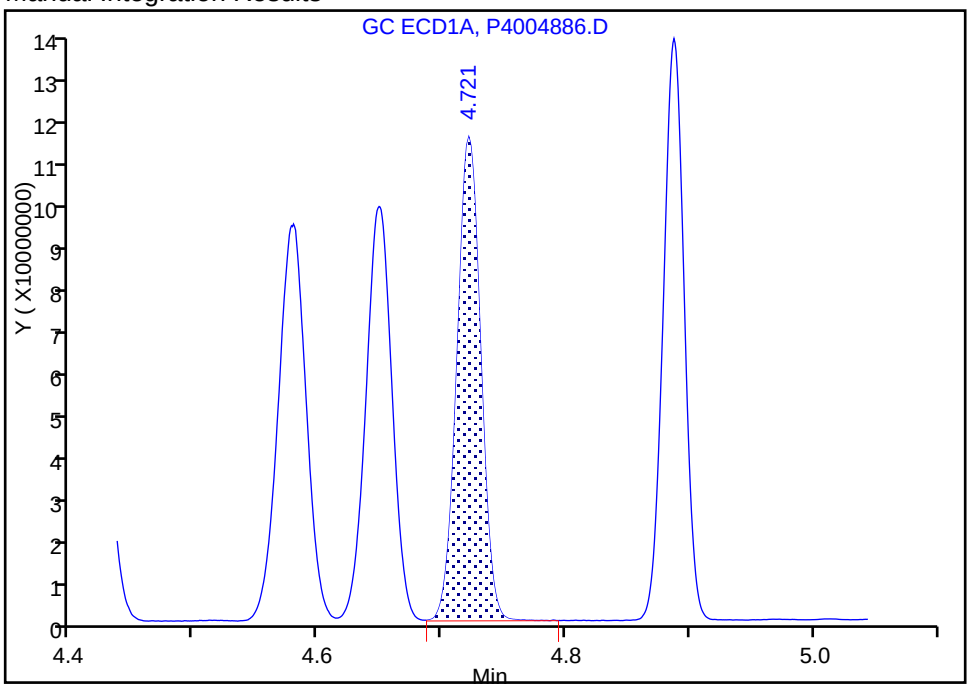
Processing Integration Results

RT: 4.72
Area: 146801004
Amount: 469.4775
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 147238748
Amount: 475.5379
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:02:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

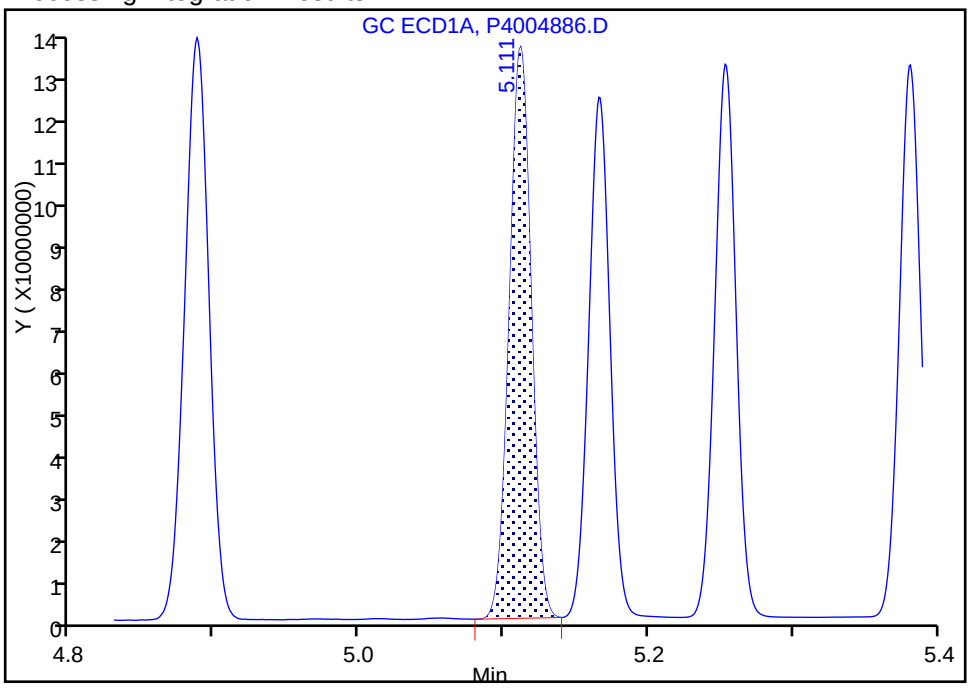
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Injection Date: 27-Sep-2017 09:10:59 Instrument ID: CPESTGC4
Lims ID: STD PESTL5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

20 Endrin, CAS: 72-20-8

Signal: 1

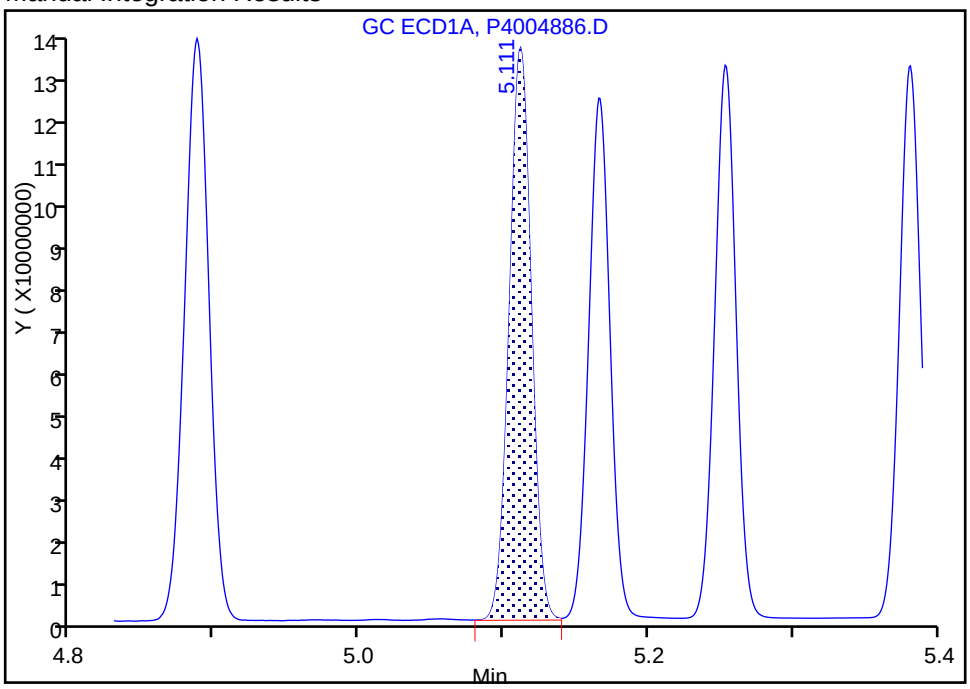
Processing Integration Results

RT: 5.11
Area: 137395867
Amount: 470.5817
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 138200668
Amount: 475.1850
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

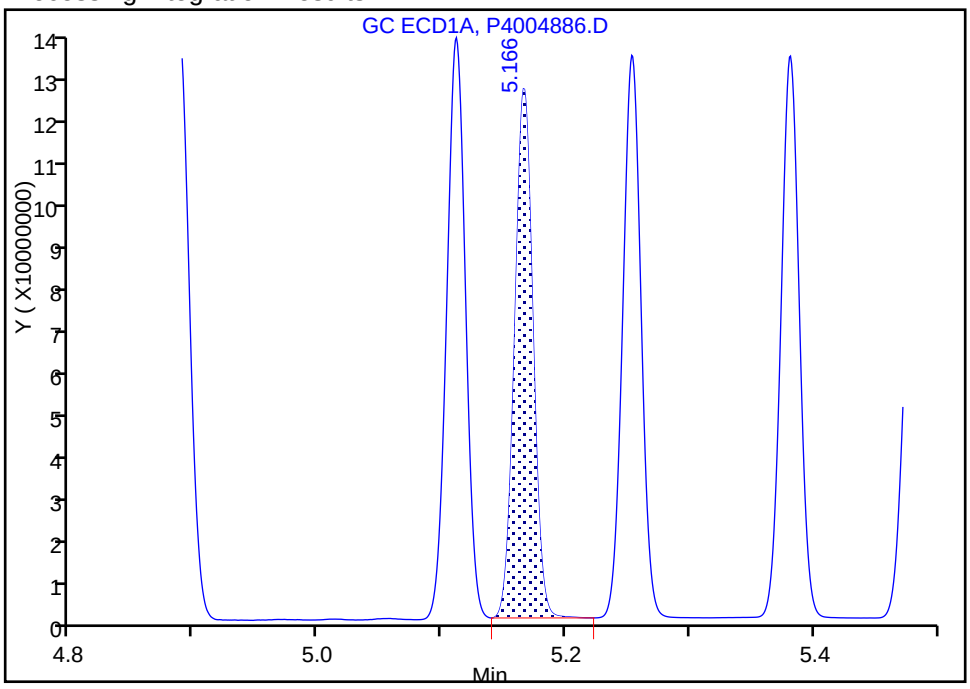
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

16 4,4'-DDD, CAS: 72-54-8

Signal: 1

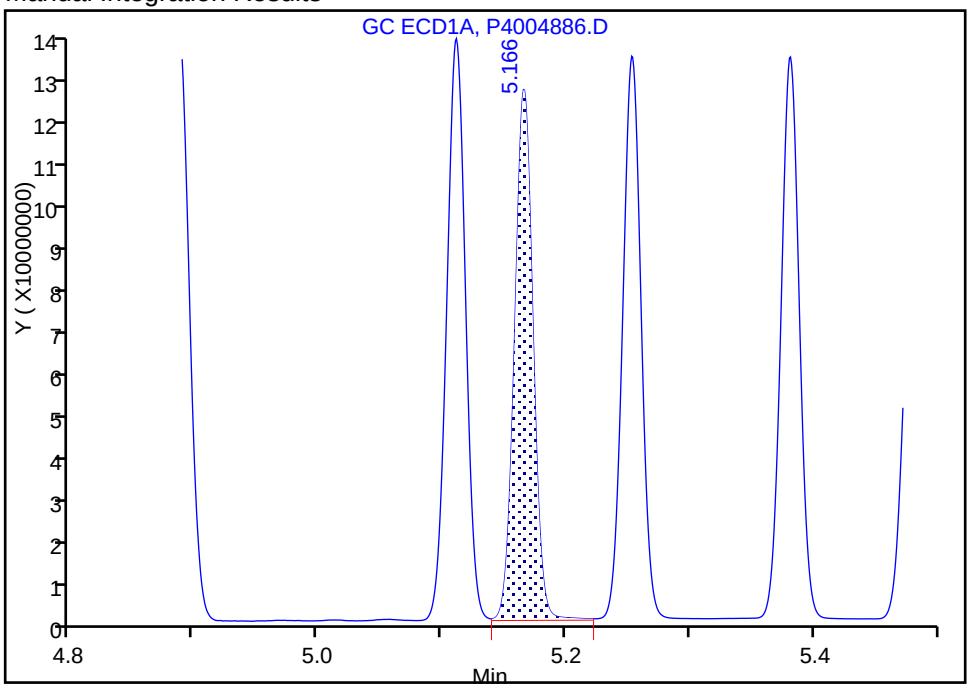
Processing Integration Results

RT: 5.17
Area: 122178779
Amount: 473.1799
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 123895825
Amount: 478.0607
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

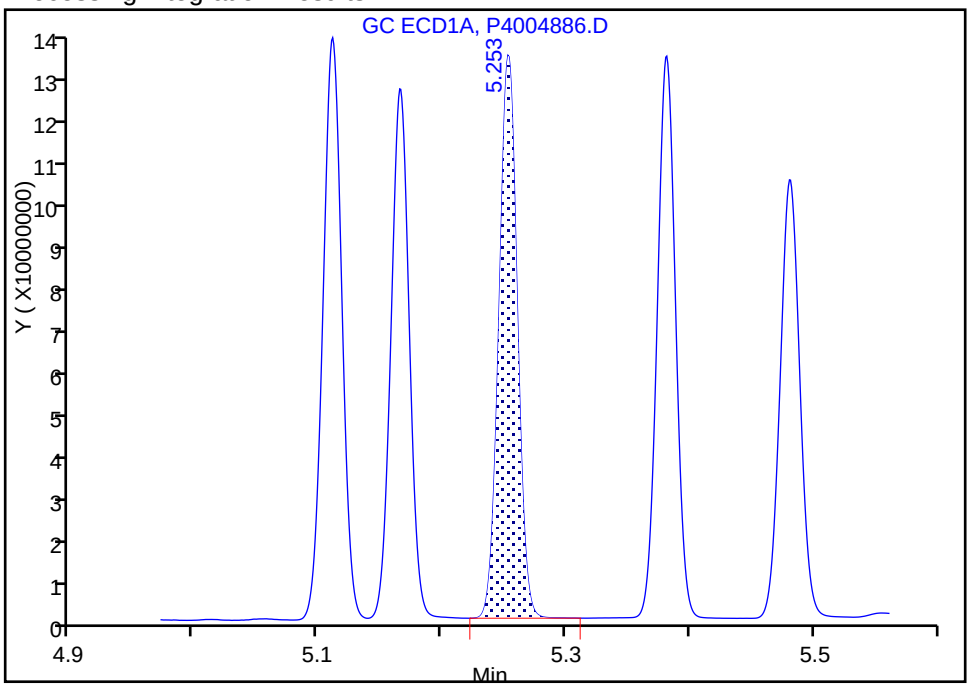
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

11 Endosulfan II, CAS: 33213-65-9

Signal: 1

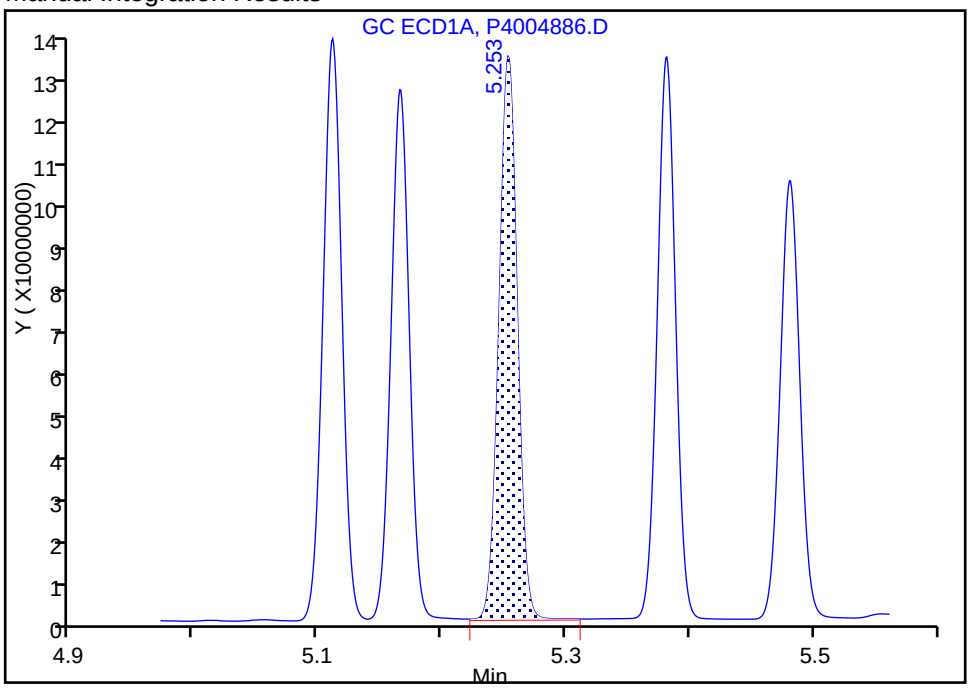
Processing Integration Results

RT: 5.25
Area: 129882457
Amount: 457.3856
Amount Units: ug/l



Manual Integration Results

RT: 5.25
Area: 131298067
Amount: 468.4299
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

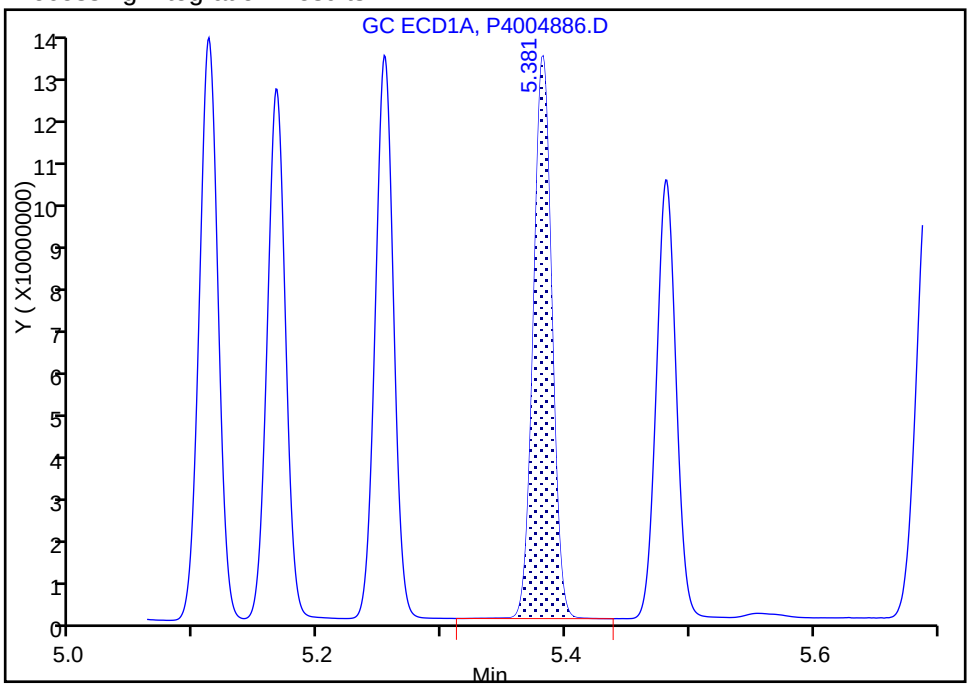
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

21 4,4'-DDT, CAS: 50-29-3

Signal: 1

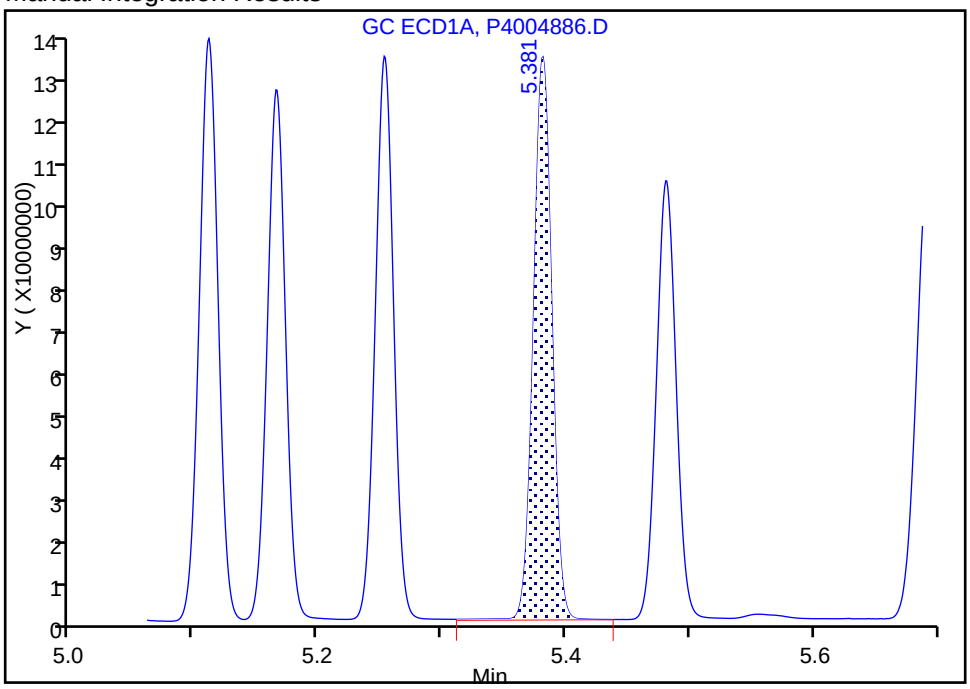
Processing Integration Results

RT: 5.38
Area: 129853820
Amount: 457.5854
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 130809930
Amount: 477.5329
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

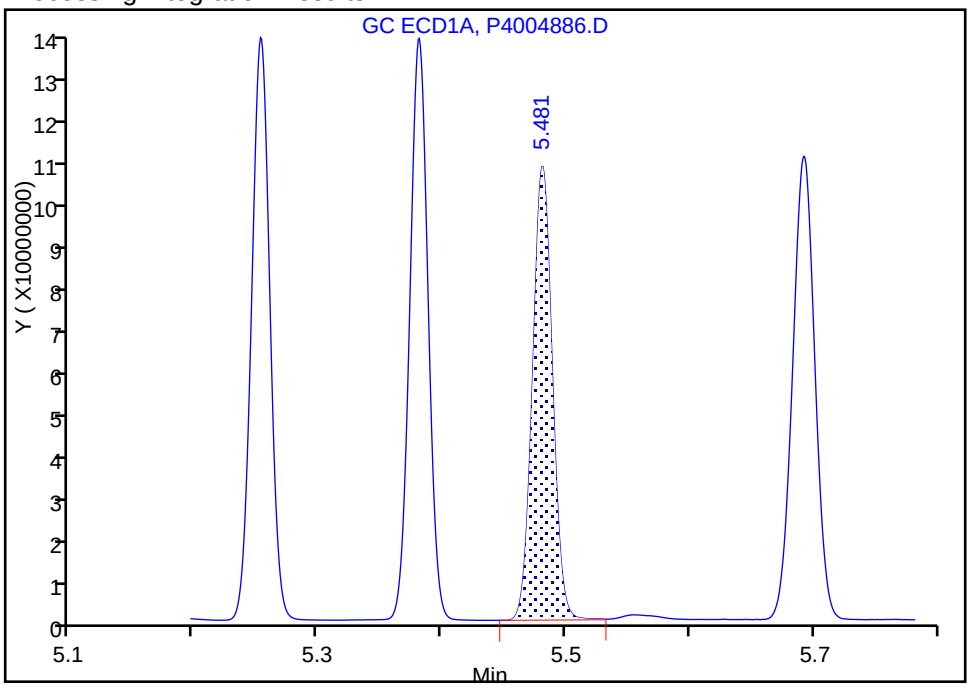
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 1

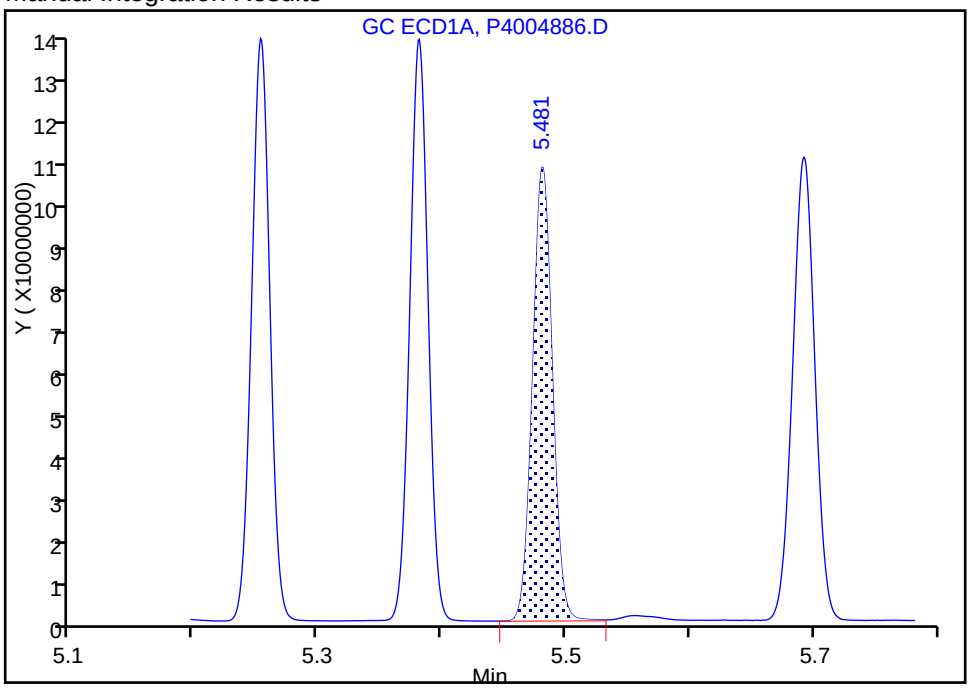
Processing Integration Results

RT: 5.48
Area: 108851139
Amount: 454.1660
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 109066149
Amount: 462.4899
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:50

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

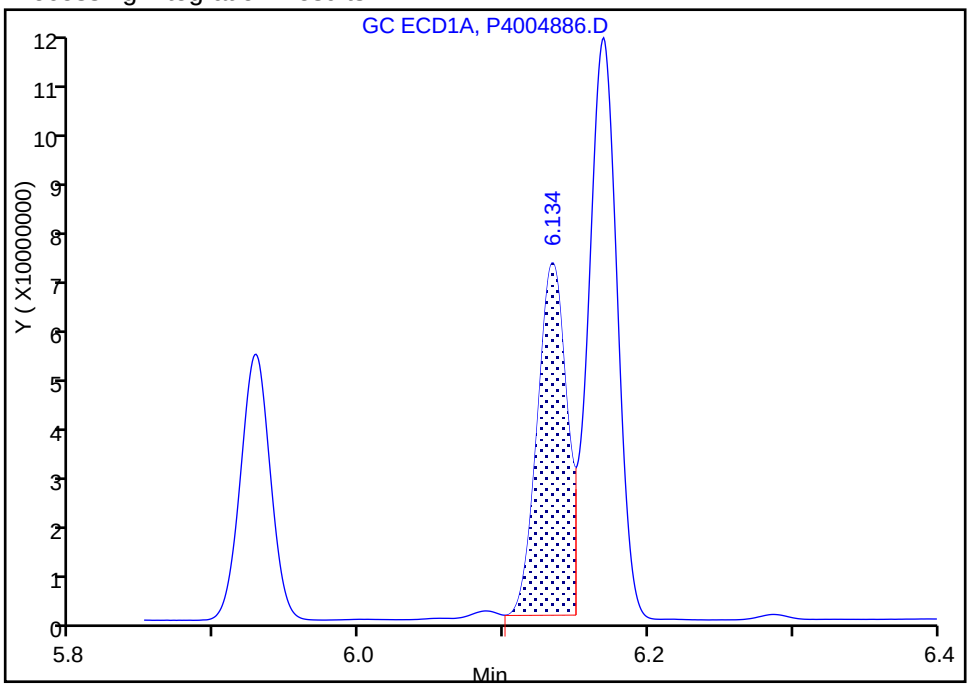
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Injection Date: 27-Sep-2017 09:10:59 Instrument ID: CPESTGC4
Lims ID: STD PESTL5
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

34 Mirex, CAS: 2385-85-5

Signal: 1

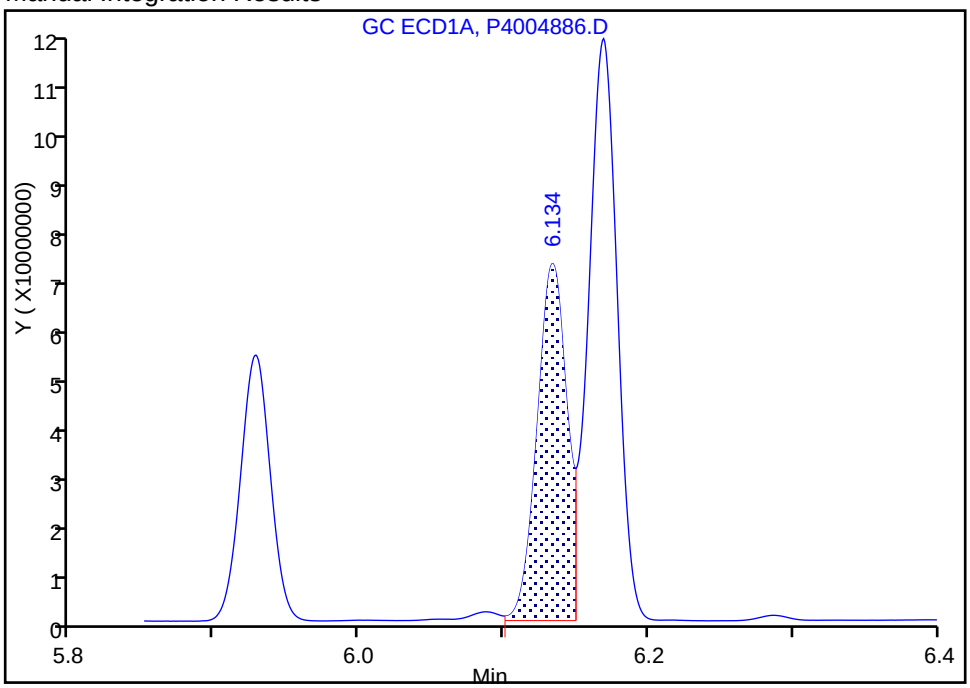
Processing Integration Results

RT: 6.13
Area: 90188083
Amount: 512.4415
Amount Units: ug/l



Manual Integration Results

RT: 6.13
Area: 92553381
Amount: 483.2859
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:37
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

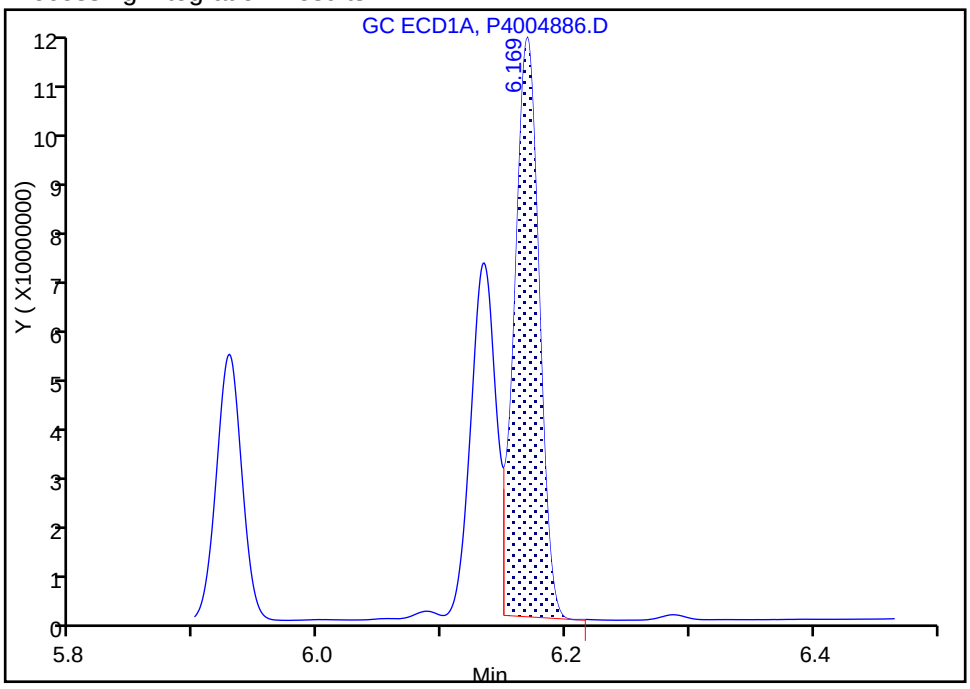
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D				
Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL5				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

13 Endrin ketone, CAS: 53494-70-5

Signal: 1

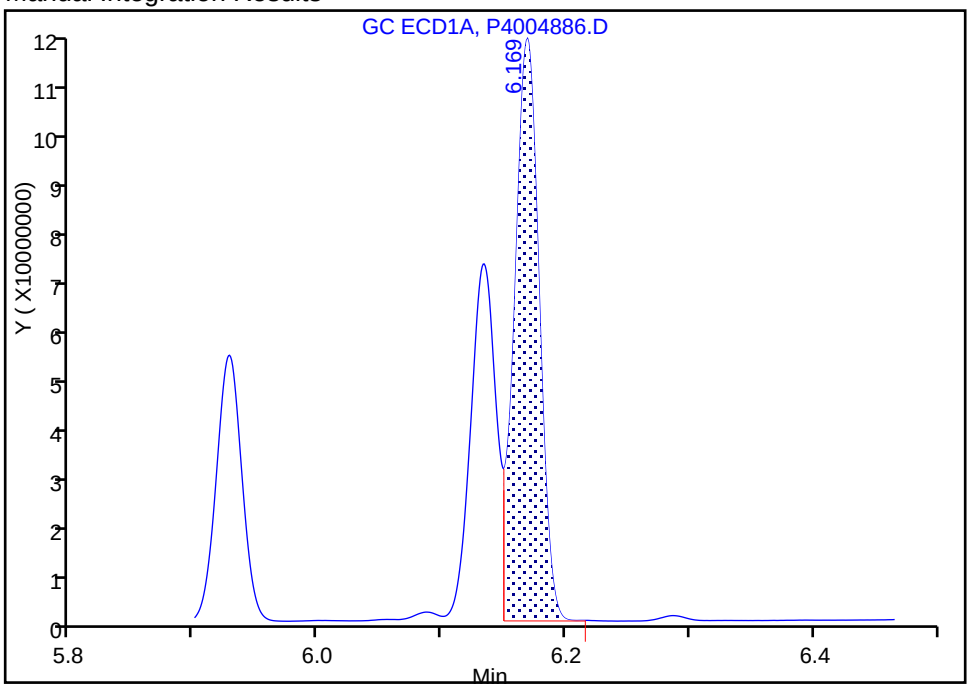
Processing Integration Results

RT: 6.17
Area: 143618226
Amount: 496.6025
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 145234779
Amount: 476.2715
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:56:37

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64208

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.3741	1.3637	1.4059	1.3605	1.3866	Ave		1.3781				1.3		20.0			
gamma-BHC (Lindane)	1.2821	1.2553	1.2724	1.2311	1.2513	Ave		1.2584				1.6		20.0			
beta-BHC	0.5993	0.5623	0.5409	0.5155	0.5087	Ave		0.5453				6.8		20.0			
delta-BHC	1.2665	1.2480	1.2748	1.2336	1.2601	Ave		1.2566				1.3		20.0			
Heptachlor	1.3269	1.2365	1.2414	1.1751	1.1940	Ave		1.2348				4.7		20.0			
Aldrin	1.3154	1.1115	1.1269	1.0706	1.0907	Ave		1.1430				8.6		20.0			
Heptachlor epoxide	1.2081	1.0751	1.0804	1.0071	1.0179	Ave		1.0777				7.4		20.0			
trans-Chlordane	1.1844	1.0680	1.0739	1.0062	1.0233	Ave		1.0712				6.5		20.0			
cis-Chlordane	1.1844	1.0405	1.0375	0.9642	0.9807	Ave		1.0415				8.3		20.0			
4,4'-DDE	1.0862	1.0423	1.0417	0.9847	1.0135	Ave		1.0337				3.7		20.0			
Endosulfan I	1.1245	1.0323	1.0206	0.9444	0.9605	Ave		1.0165				7.0		20.0			
Dieldrin	1.1584	1.1256	1.1559	1.0684	1.1056	Ave		1.1228				3.3		20.0			
Endrin	1.1186	1.0272	1.0589	0.9763	1.0120	Ave		1.0386				5.2		20.0			
4,4'-DDD	0.9289	0.8959	0.9307	0.8598	0.8928	Ave		0.9016				3.3		20.0			
Endosulfan II	1.0331	1.0001	1.0079	0.9189	0.9445	Ave		0.9809				4.8		20.0			
4,4'-DDT	0.9070	0.9535	0.9714	0.9013	0.9420	Ave		0.9350				3.2		20.0			
Endrin aldehyde	0.8071	0.8353	0.8606	0.7826	0.8052	Ave		0.8182				3.7		20.0			
Methoxychlor	0.5569	0.5310	0.5423	0.4902	0.4989	Ave		0.5238				5.4		20.0			
Mirex	0.7709	0.7047	0.7151	0.7002	0.7015	Ave		0.7185				4.2		20.0			
Endosulfan sulfate	1.0475	1.0251	1.0222	0.9462	0.9625	Ave		1.0007				4.4		20.0			
Endrin ketone	1.1750	1.1767	1.1511	1.0676	1.0889	Ave		1.1318				4.5		20.0			
Tetrachloro-m-xylene	0.7886	0.9408	0.9776	1.0086	1.0179	Ave		0.9467				9.9		20.0			
DCB Decachlorobiphenyl	0.7709	0.9354	0.9293	0.9415	0.9522	Ave		0.9059				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 08:22 Calibration End Date: 09/27/2017 09:10 Calibration ID: 64208

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 460-465107/3	P4004882.D
Level 2	STD 460-465107/4	P4004883.D
Level 3	STD 460-465107/5	P4004884.D
Level 4	STD 460-465107/6	P4004885.D
Level 5	STD 460-465107/7	P4004886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	1445319	28125700	58964160	130672962	267362879	2.50	50.0	100	250	500
gamma-BHC (Lindane)	BNB	Ave	1348560	25889272	53365655	118246794	241268187	2.50	50.0	100	250	500
beta-BHC	BNB	Ave	630309	11597674	22684079	49510009	98087924	2.50	50.0	100	250	500
delta-BHC	BNB	Ave	1332138	25739135	53466596	118490453	242975044	2.50	50.0	100	250	500
Heptachlor	BNB	Ave	1395704	25502692	52065379	112872805	230230609	2.50	50.0	100	250	500
Aldrin	BNB	Ave	1383561	22924487	47263361	102831108	210299860	2.50	50.0	100	250	500
Heptachlor epoxide	BNB	Ave	1270694	22174471	45313024	96736728	196270296	2.50	50.0	100	250	500
trans-Chlordane	BNB	Ave	1245826	22027564	45042212	96648764	197305184	2.50	50.0	100	250	500
cis-Chlordane	BNB	Ave	1245737	21460792	43513175	92611458	189103626	2.50	50.0	100	250	500
4,4'-DDE	BNB	Ave	1142514	21496333	43691386	94576527	195418561	2.50	50.0	100	250	500
Endosulfan I	BNB	Ave	1182813	21290606	42806026	90713790	185201648	2.50	50.0	100	250	500
Dieldrin	BNB	Ave	1218459	23215863	48478494	102621982	213186435	2.50	50.0	100	250	500
Endrin	BNB	Ave	1176601	21185619	44412680	93769443	195141671	2.50	50.0	100	250	500
4,4'-DDD	BNB	Ave	977082	18476782	39034234	82580735	172140925	2.50	50.0	100	250	500
Endosulfan II	BNB	Ave	1086632	20626396	42274152	88264400	182111007	2.50	50.0	100	250	500
4,4'-DDT	BNB	Ave	953977	19665583	40739512	86571844	181631574	2.50	50.0	100	250	500
Endrin aldehyde	BNB	Ave	848959	17226948	36095786	75170596	155267812	2.50	50.0	100	250	500
Methoxychlor	BNB	Ave	585719	10951141	22746030	47082647	96191660	2.50	50.0	100	250	500
Mirex	BNB	Ave	810826	14534654	29991407	67254686	135265212	2.50	50.0	100	250	500
Endosulfan sulfate	BNB	Ave	1101769	21141579	42870824	90883527	185597502	2.50	50.0	100	250	500
Endrin ketone	BNB	Ave	1235923	24267944	48279033	102539557	209954229	2.50	50.0	100	250	500
Tetrachloro-m-xylene	BNB	Ave	2073728	19404595	40999889	58125825	78511207	6.25	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	2027199	19292555	38977750	54260076	73442990	6.25	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Lims ID: STD PESTL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 08:22:06 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:32:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.685	1.679	0.006	31853746	100.0	100.0	
2	1.512	1.513	-0.001	42073150	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							M
1	2.239	2.230	0.009	1927219	6.25	6.06	M
2	1.886	1.885	0.001	2073728	6.25	5.21	M
						RPD = 15.21	
15 alpha-BHC							M
1	2.659	2.651	0.008	1291740	2.50	2.82	M
2	2.208	2.208	0.000	1445319	2.50	2.49	M
						RPD = 12.18	
2 gamma-BHC (Lindane)							M
1	2.930	2.918	0.012	1143940	2.50	2.69	M
2	2.402	2.400	0.002	1348560	2.50	2.55	M
						RPD = 5.31	
6 beta-BHC							M
1	2.982	2.967	0.015	503444	2.50	2.71	M
2	2.450	2.447	0.003	630309	2.50	2.75	M
						RPD = 1.48	
32 delta-BHC							M
1	3.231	3.218	0.013	1191307	2.50	2.74	M
2	2.565	2.563	0.002	1332138	2.50	2.52	M
						RPD = 8.47	
18 Heptachlor							M
1	3.307	3.294	0.013	1195306	2.50	2.83	M
2	2.700	2.698	0.002	1395704	2.50	2.69	M
						RPD = 5.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.615	3.603	0.012	1164753	2.50	2.93	M
2	2.907	2.905	0.002	1383561	2.50	2.88	M
						RPD = 1.66	
12 Heptachlor epoxide							M
1	4.227	4.208	0.019	911326	2.50	2.51	M
2	3.363	3.359	0.004	1270694	2.50	2.80	M
						RPD = 10.83	
9 gamma-Chlordane							M
1	4.432	4.418	0.014	1027152	2.50	2.83	M
2	3.466	3.462	0.004	1245826	2.50	2.76	M
						RPD = 2.44	
23 alpha-Chlordane							M
1	4.594	4.578	0.016	973142	2.50	2.84	M
2	3.581	3.577	0.004	1245737	2.50	2.84	M
						RPD = 0.18	
7 Endosulfan I							M
1	4.661	4.648	0.013	935618	2.50	2.82	a
2	3.714	3.709	0.005	1182813	2.50	2.77	M
						RPD = 1.81	
25 4,4'-DDE							M
1	4.733	4.722	0.011	892866	2.50	2.61	M
2	3.637	3.632	0.005	1142514	2.50	2.63	M
						RPD = 0.72	
30 Dieldrin							M
1	4.897	4.886	0.011	967073	2.50	2.66	M
2	3.950	3.943	0.007	1218459	2.50	2.58	
						RPD = 3.11	
20 Endrin							M
1	5.120	5.110	0.010	852038	2.50	2.65	M
2	4.202	4.198	0.004	1176601	2.50	2.69	M
						RPD = 1.61	
16 4,4'-DDD							M
1	5.174	5.165	0.009	744819	2.50	2.60	
2	4.259	4.253	0.006	977082	2.50	2.58	M
						RPD = 0.91	
11 Endosulfan II							M
1	5.261	5.253	0.008	820853	2.50	2.65	M
2	4.442	4.437	0.005	1086632	2.50	2.63	M
						RPD = 0.60	
21 4,4'-DDT							M
1	5.389	5.380	0.009	771321	2.50	2.55	M
2	4.560	4.555	0.005	953977	2.50	2.42	
						RPD = 4.90	
5 Endrin aldehyde							M
1	5.489	5.480	0.009	675307	2.50	2.59	M
2	4.838	4.834	0.004	848959	2.50	2.47	M
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.700	5.692	0.008	808856	2.50	2.70	
2	5.146	5.142	0.004	1101769	2.50	2.62	M
						RPD = 3.22	
10 Methoxychlor							M
1	5.939	5.927	0.012	434392	2.50	2.63	M
2	4.972	4.968	0.004	585719	2.50	2.66	M
						RPD = 1.12	
34 Mirex							M
1	6.141	6.133	0.008	574199	2.50	2.71	M
2	5.067	5.063	0.004	810826	2.50	2.68	M
						RPD = 1.09	
13 Endrin ketone							M
1	6.177	6.167	0.010	898789	2.50	2.67	M
2	5.326	5.323	0.003	1235923	2.50	2.60	M
						RPD = 2.68	
$ 24 DCB Decachlorobiphenyl							M
1	7.099	7.092	0.007	1259714	6.25	5.36	M
2	6.122	6.116	0.006	2027199	6.25	5.32	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

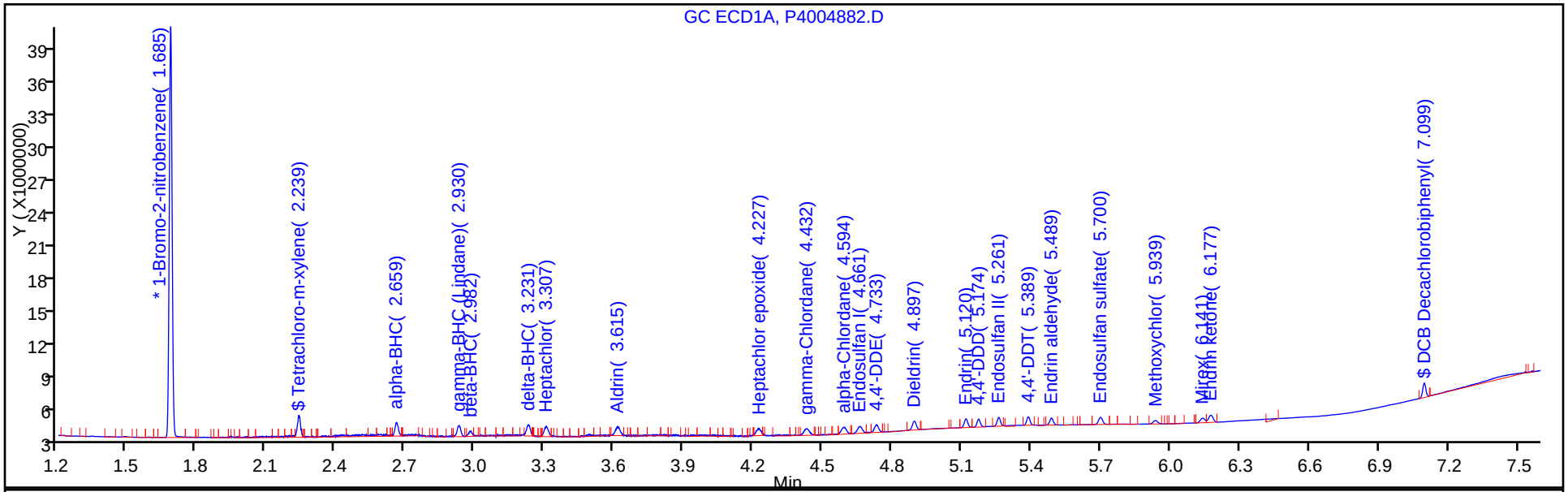
SGPEST-L1_00008	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

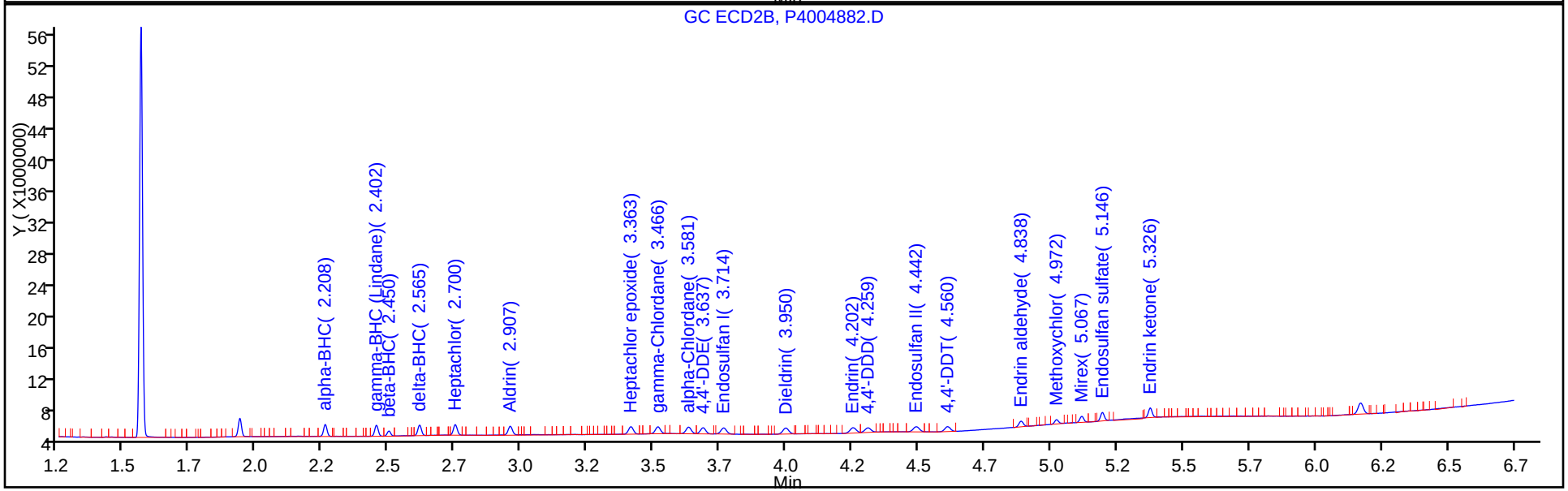
Report Date: 27-Sep-2017 13:43:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Manual Integration/User Assign Peak Report

TestAmerica Edison

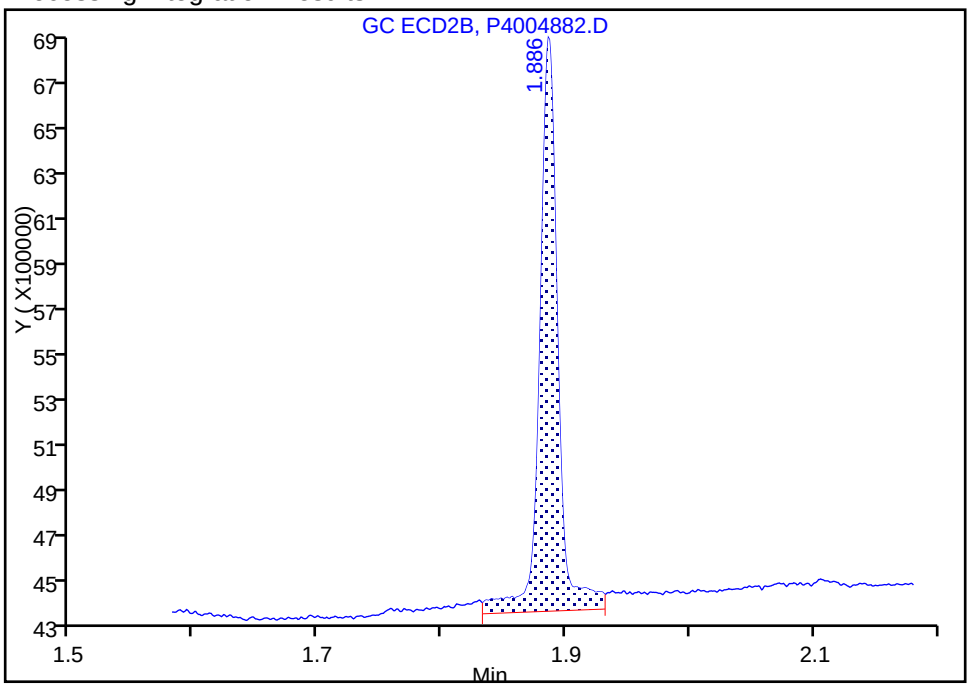
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

$ 4 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

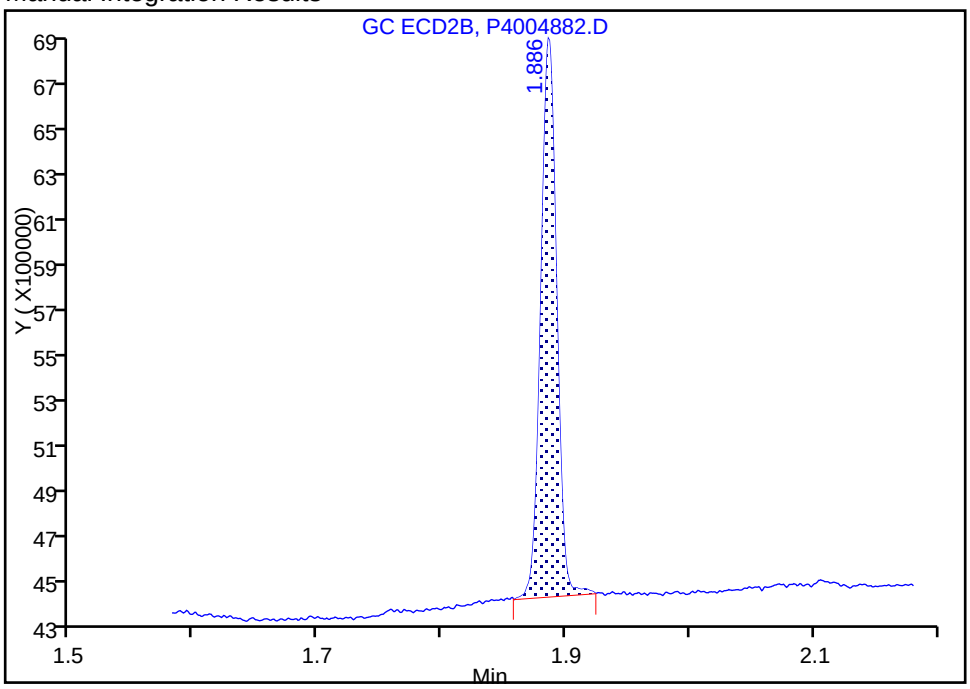
Processing Integration Results

RT: 1.89
Area: 2447338
Amount: 5.965236
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 2073728
Amount: 5.206301
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:24

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

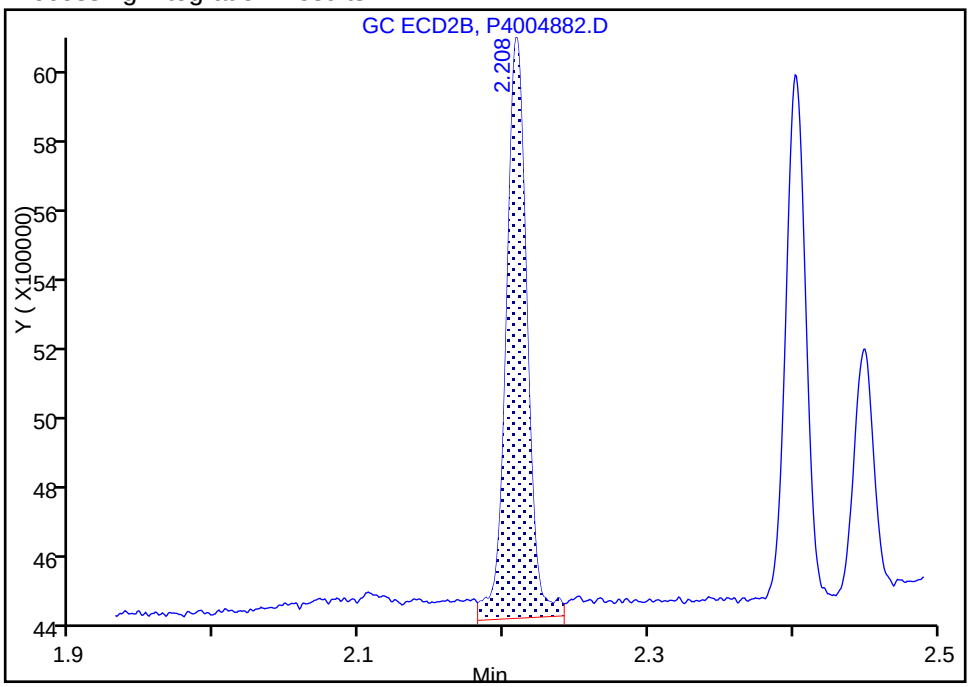
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

15 alpha-BHC, CAS: 319-84-6

Signal: 2

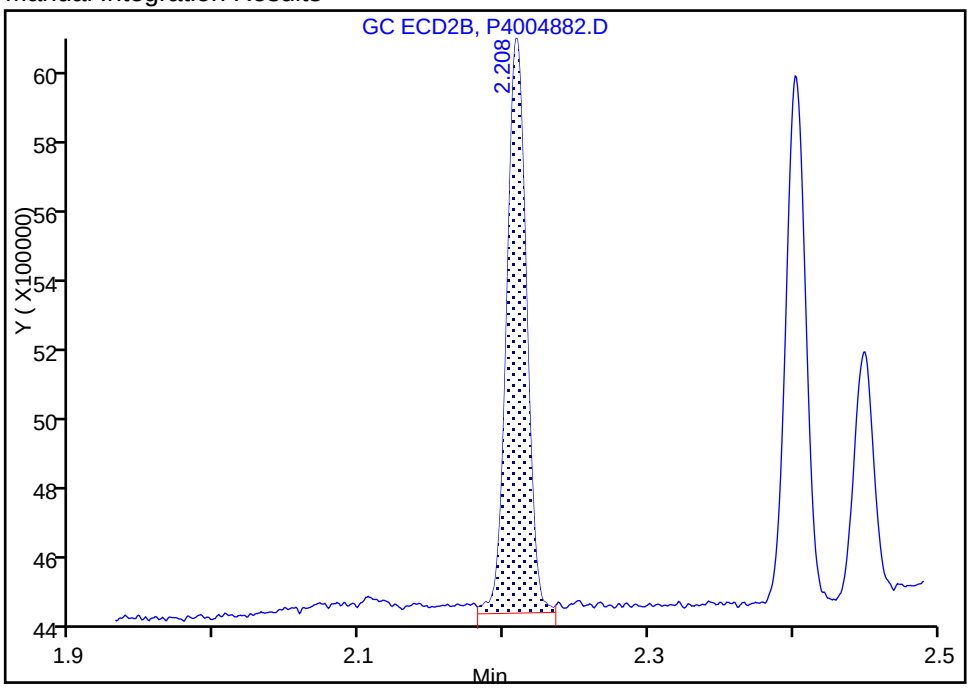
Processing Integration Results

RT: 2.21
Area: 1543808
Amount: 2.626825
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 1445319
Amount: 2.492662
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:10:55

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

Manual Integration/User Assign Peak Report

TestAmerica Edison

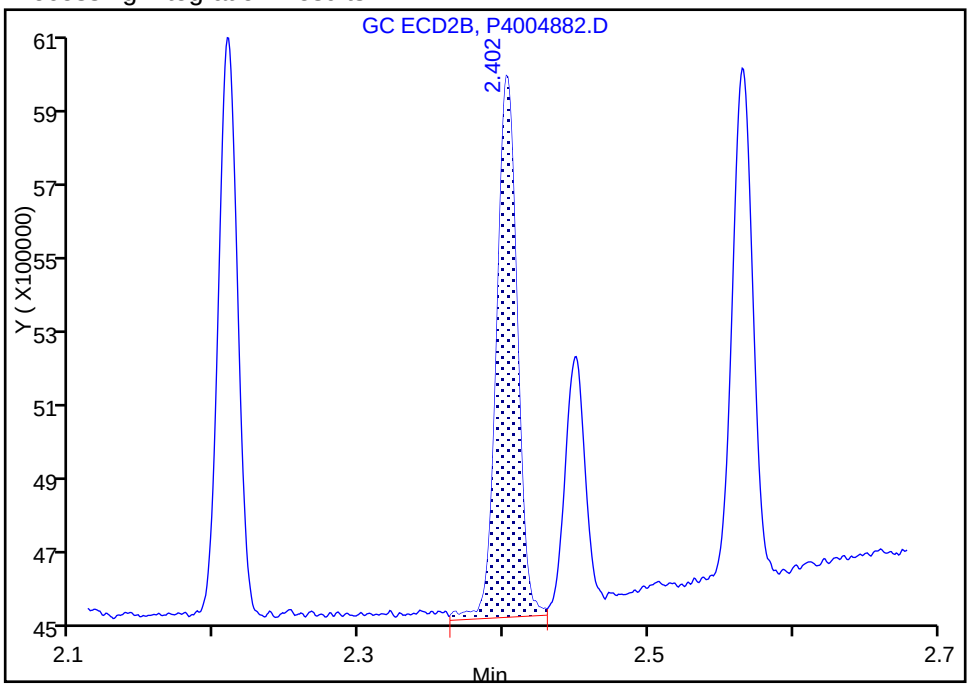
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

2 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 2

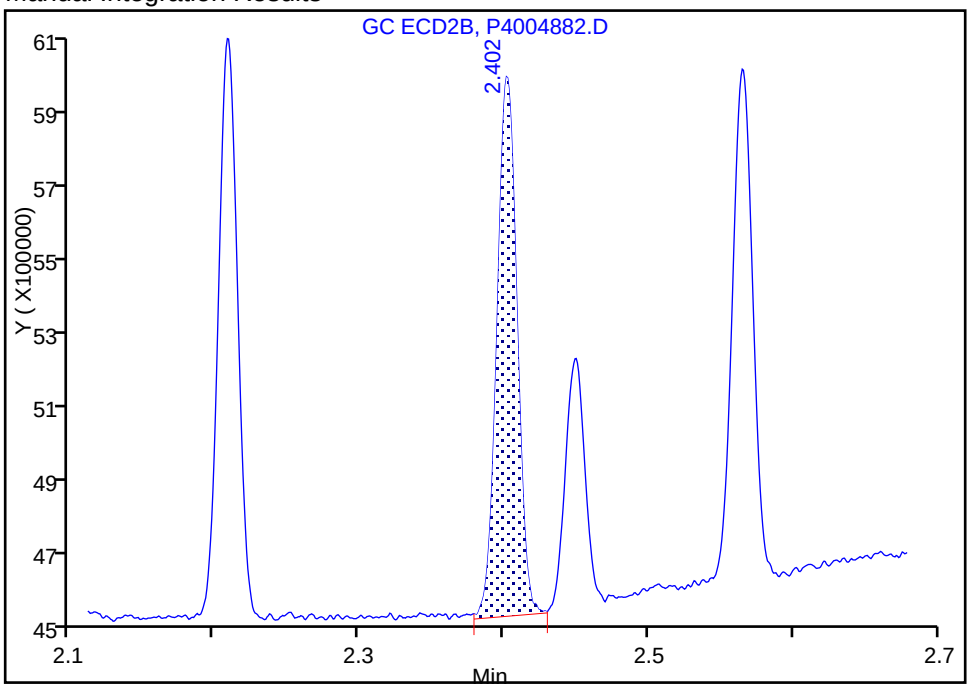
Processing Integration Results

RT: 2.40
Area: 1397396
Amount: 2.619960
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 1348560
Amount: 2.547056
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:20
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

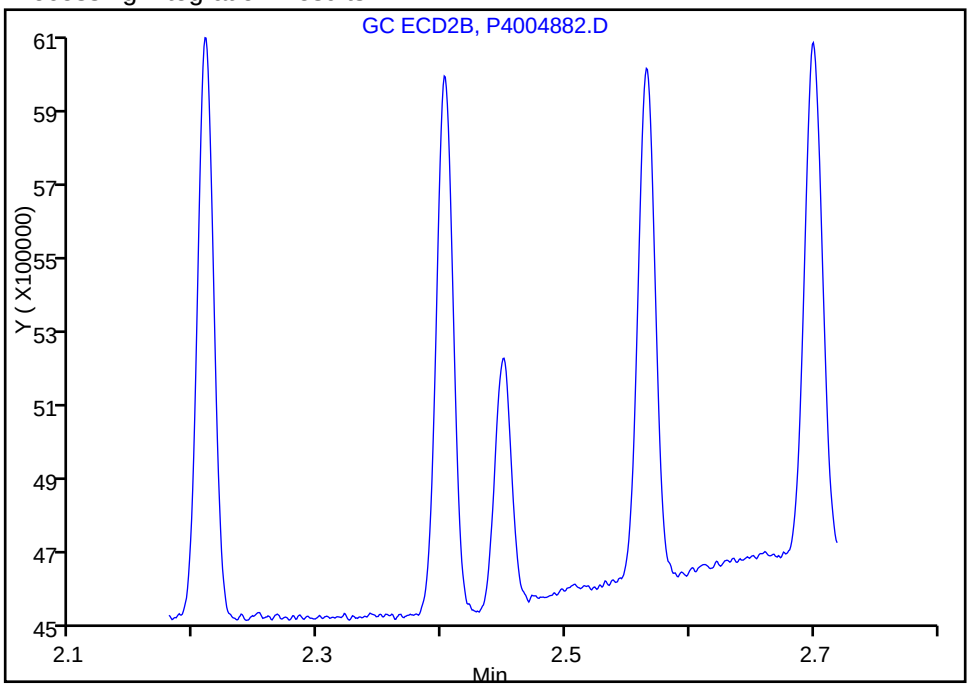
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

6 beta-BHC, CAS: 319-85-7

Signal: 2

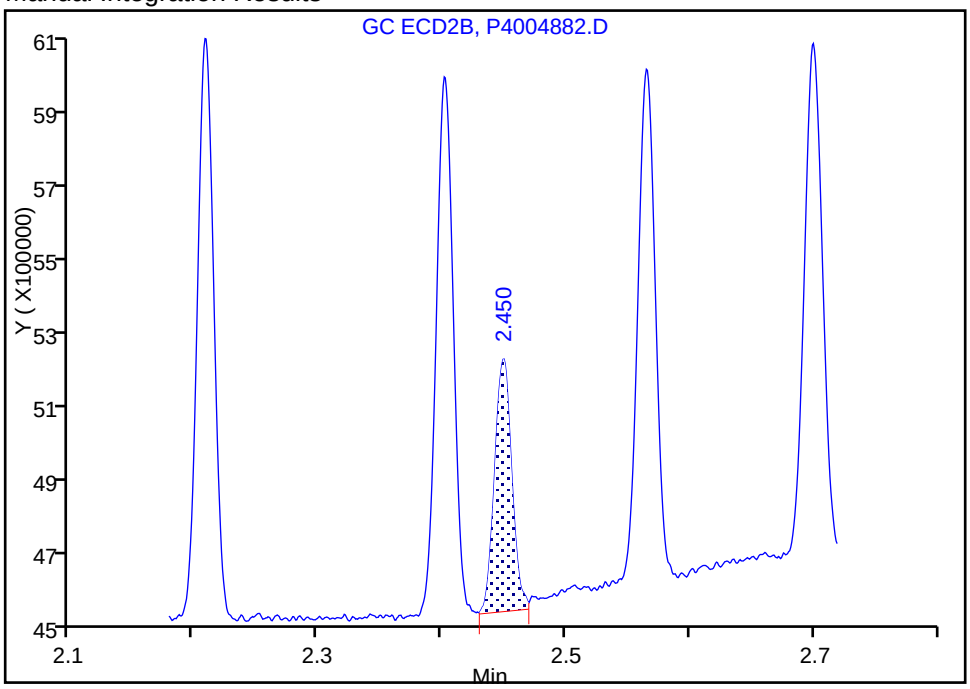
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 630309
Amount: 2.747254
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:44
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

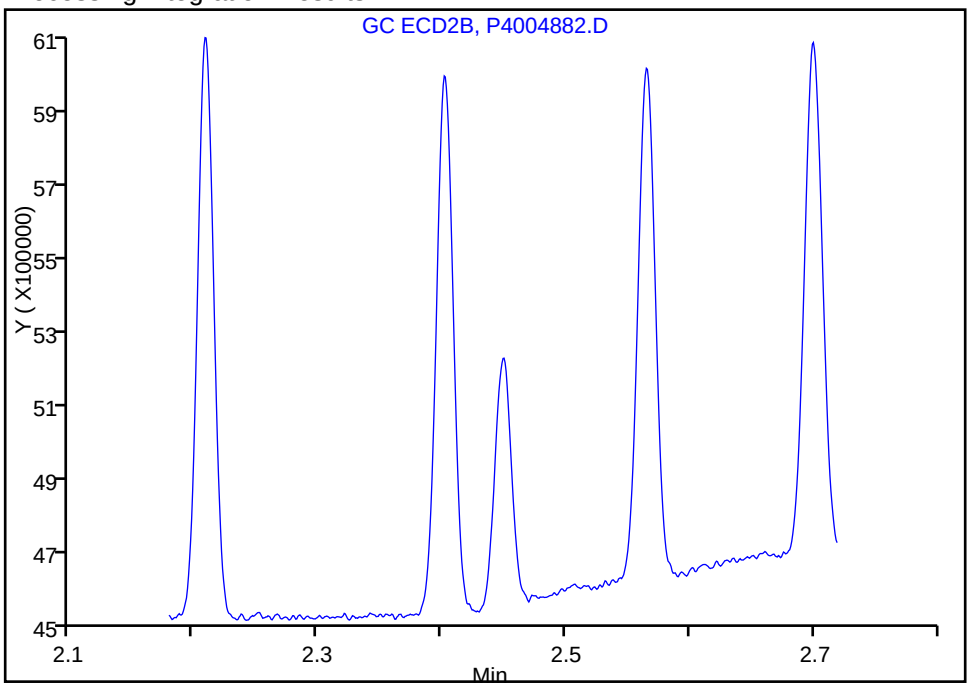
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

6 beta-BHC, CAS: 319-85-7

Signal: 2

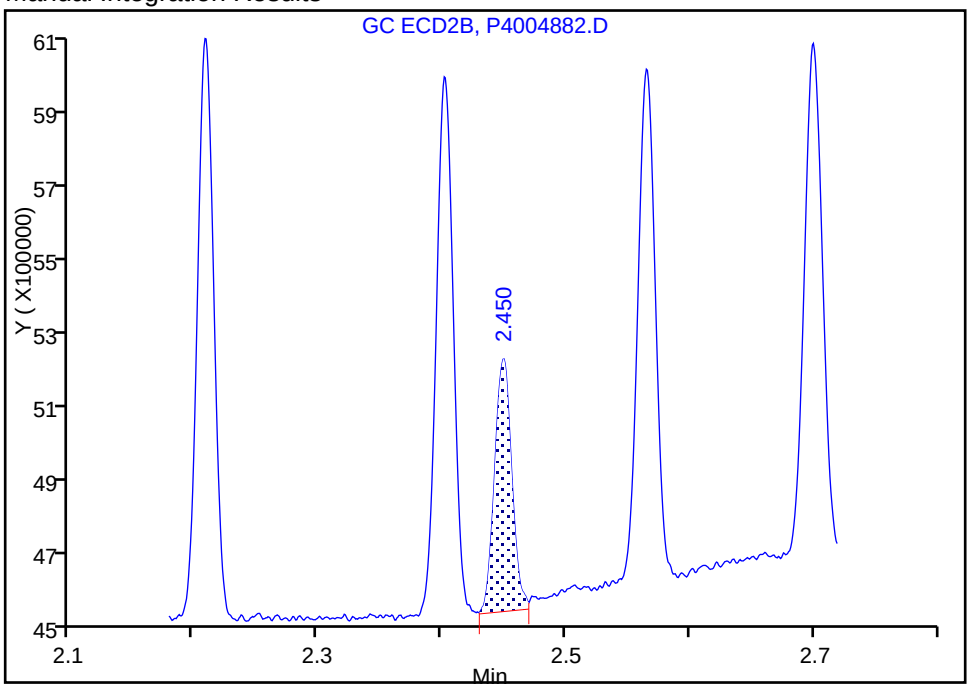
Not Detected
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 630309
Amount: 2.747254
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:20
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

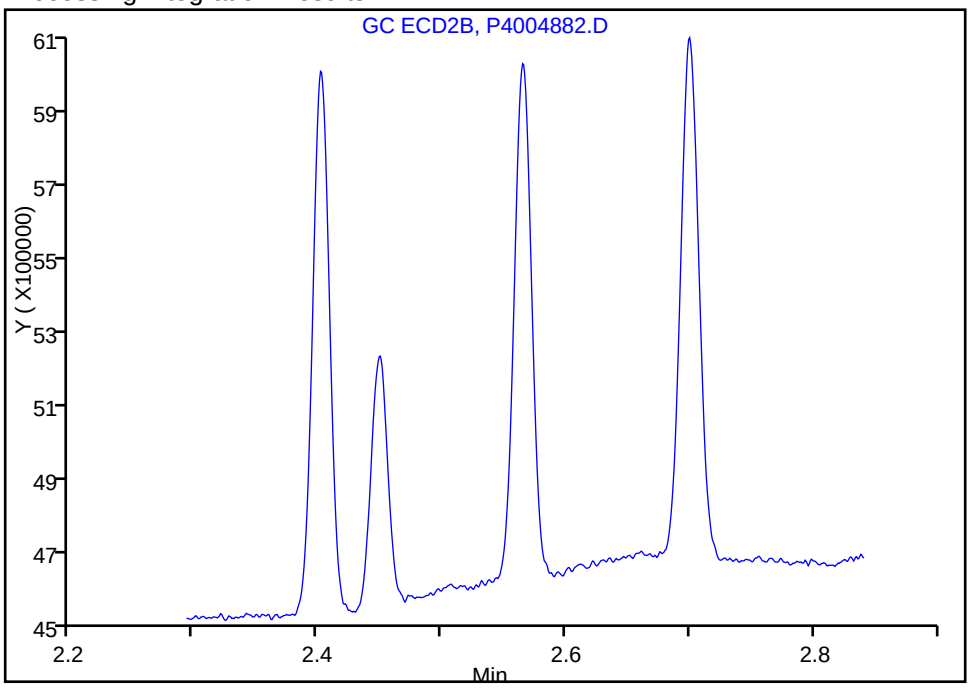
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

32 delta-BHC, CAS: 319-86-8

Signal: 2

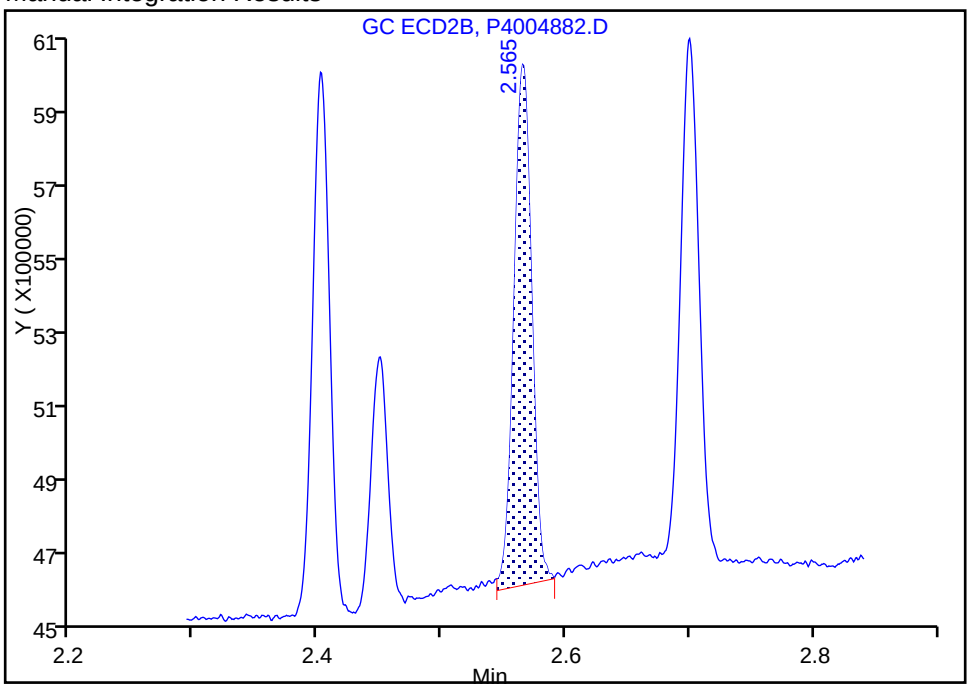
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 1332138
Amount: 2.519682
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:31:59
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

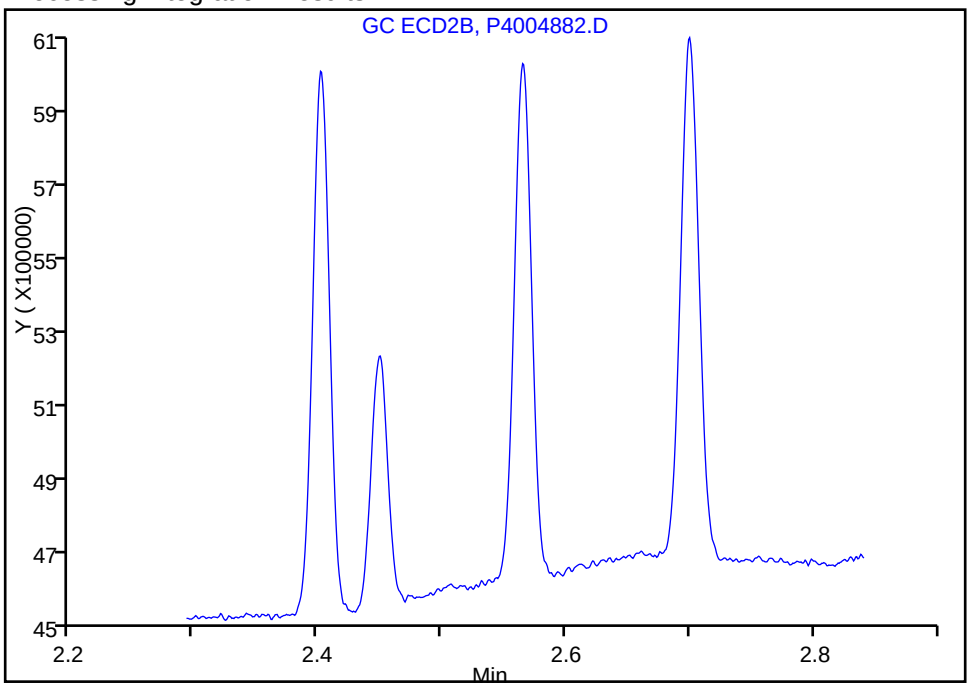
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

32 delta-BHC, CAS: 319-86-8

Signal: 2

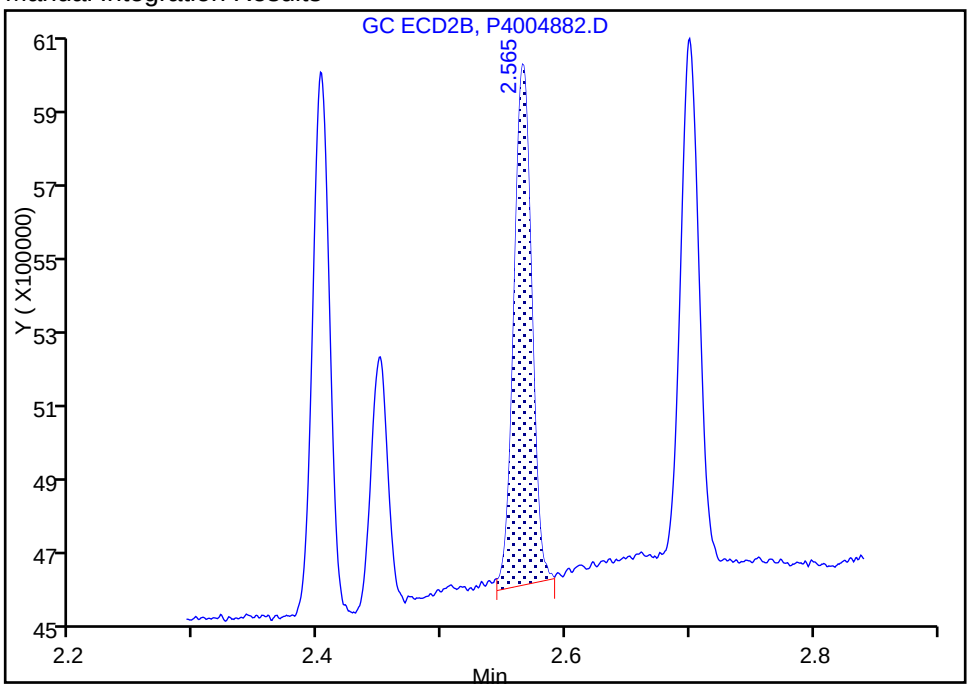
Not Detected
Expected RT: 2.56

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 1332138
Amount: 2.519682
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:22
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

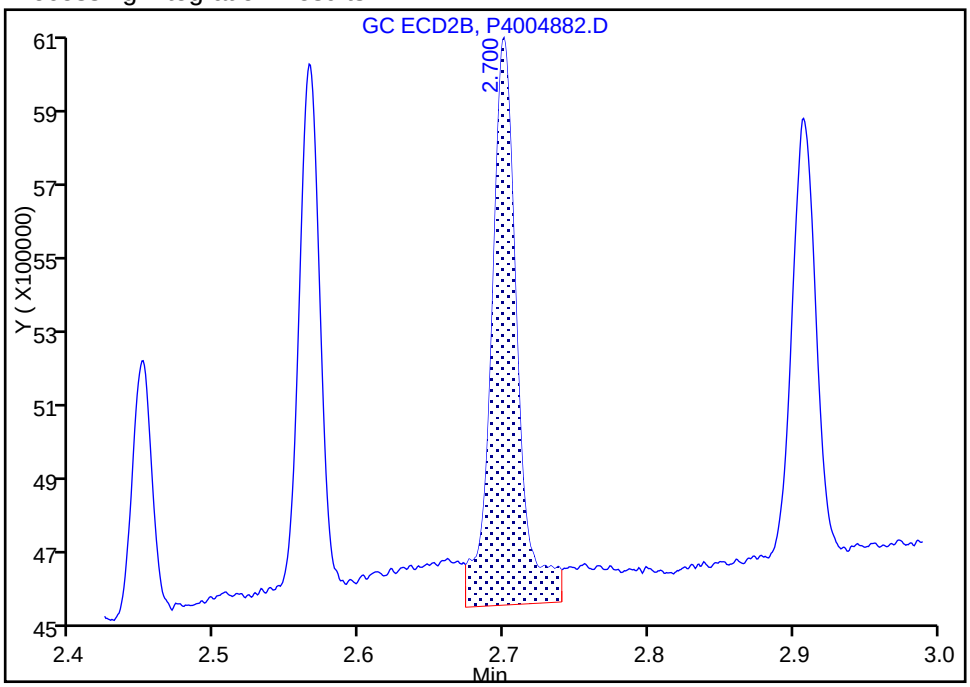
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

18 Heptachlor, CAS: 76-44-8

Signal: 2

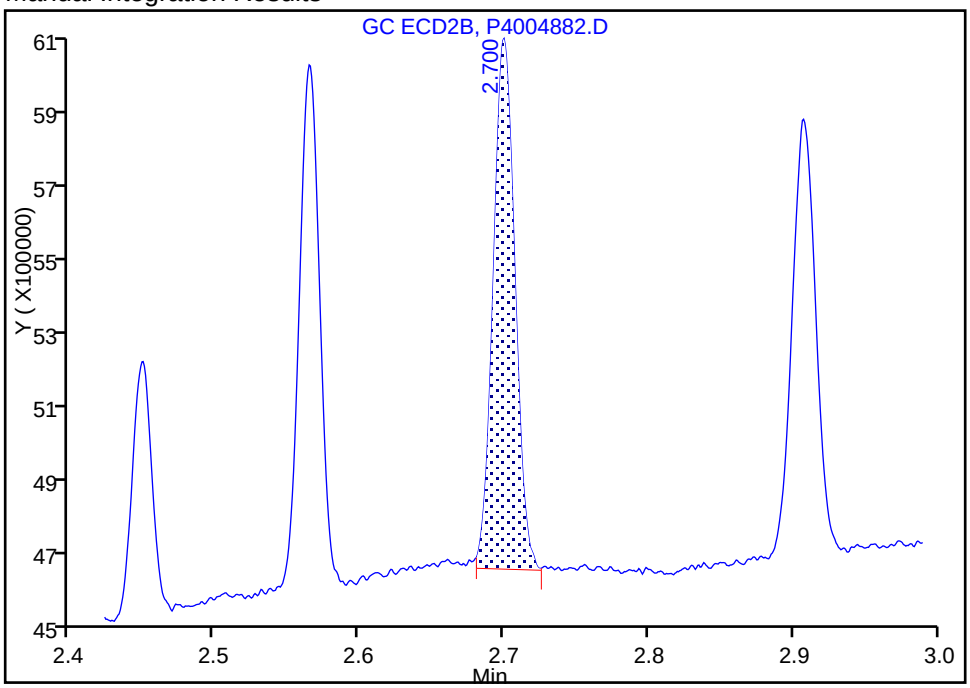
Processing Integration Results

RT: 2.70
Area: 1773195
Amount: 3.225642
Amount Units: ug/l



Manual Integration Results

RT: 2.70
Area: 1395704
Amount: 2.686530
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:29

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

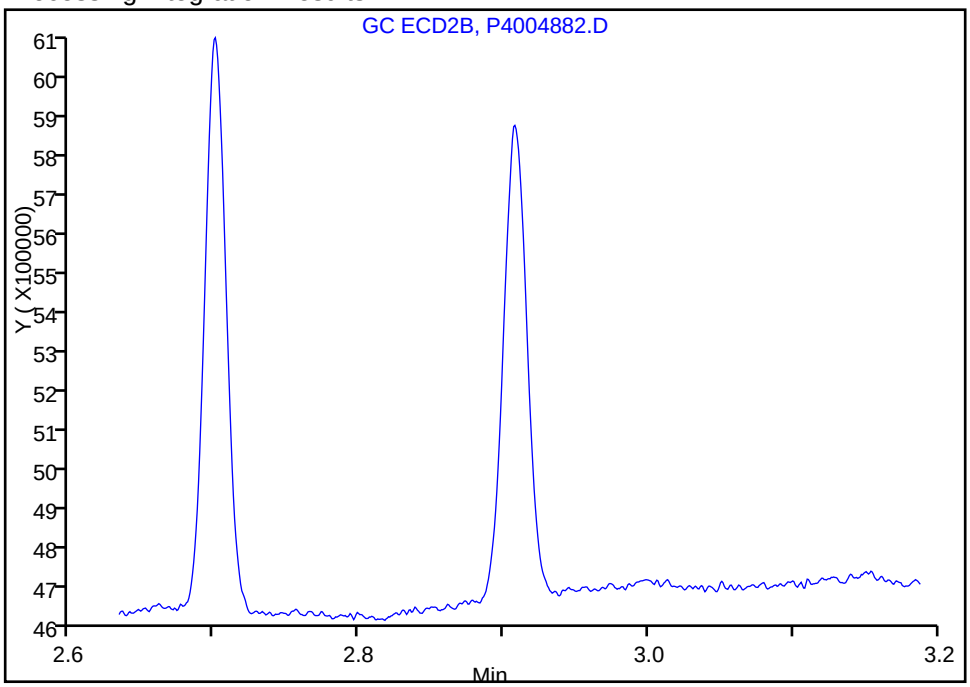
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

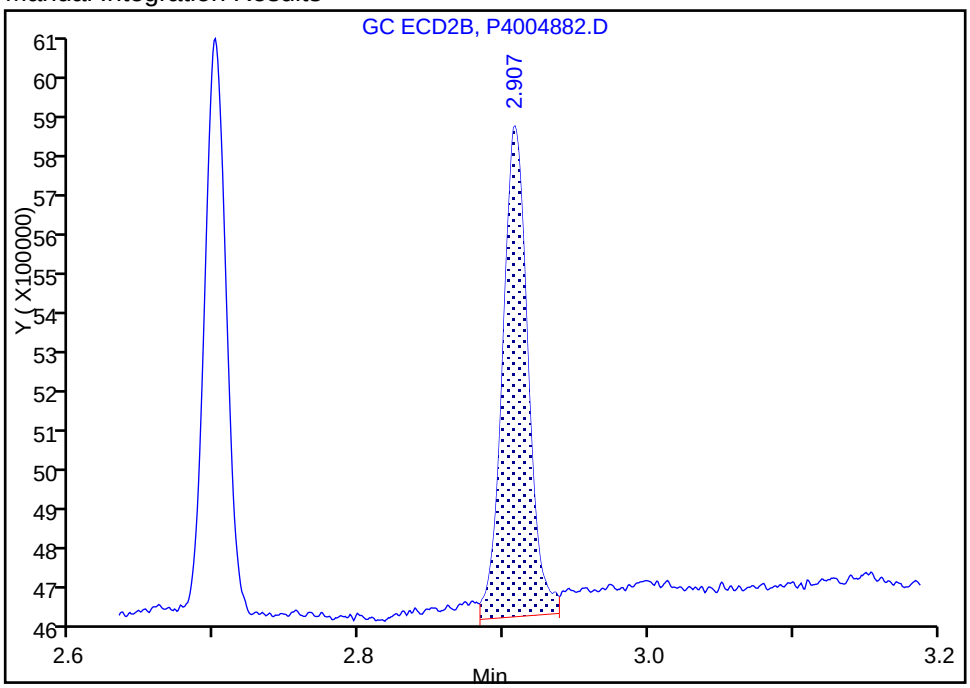
Not Detected
Expected RT: 2.91

Processing Integration Results



Manual Integration Results

RT: 2.91
Area: 1383561
Amount: 2.877025
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:22
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

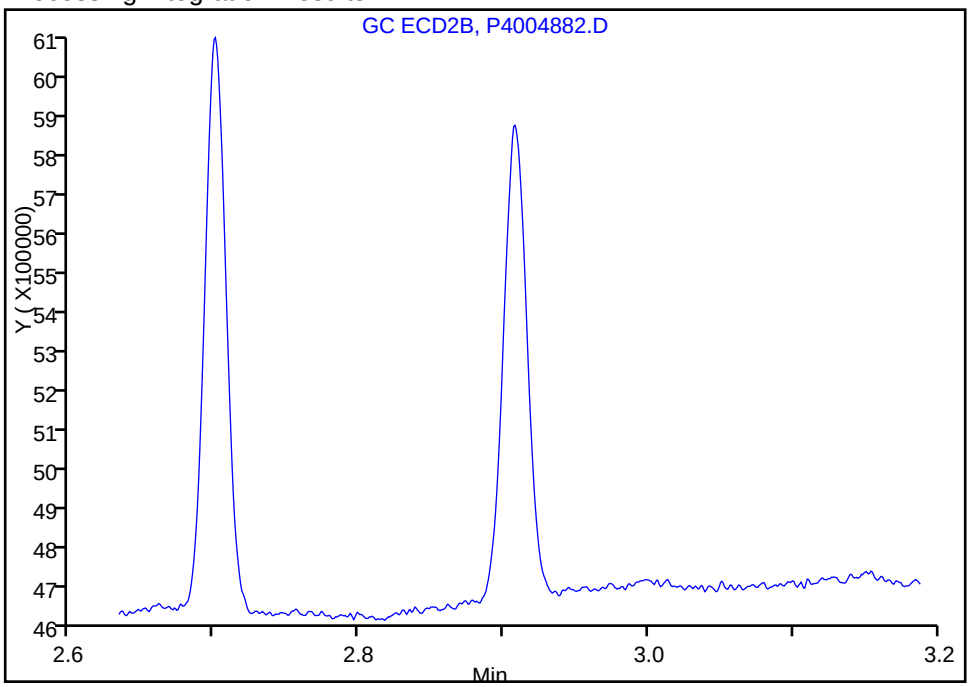
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

8 Aldrin, CAS: 309-00-2

Signal: 2

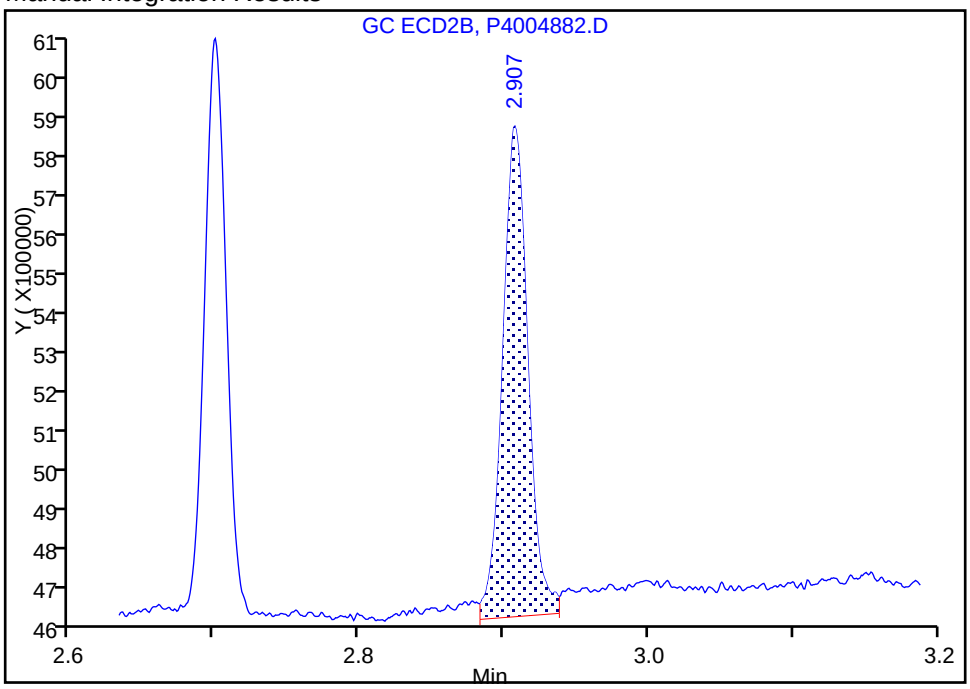
Processing Integration Results

Not Detected
Expected RT: 2.91



Manual Integration Results

RT: 2.91
Area: 1383561
Amount: 2.877025
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:11:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

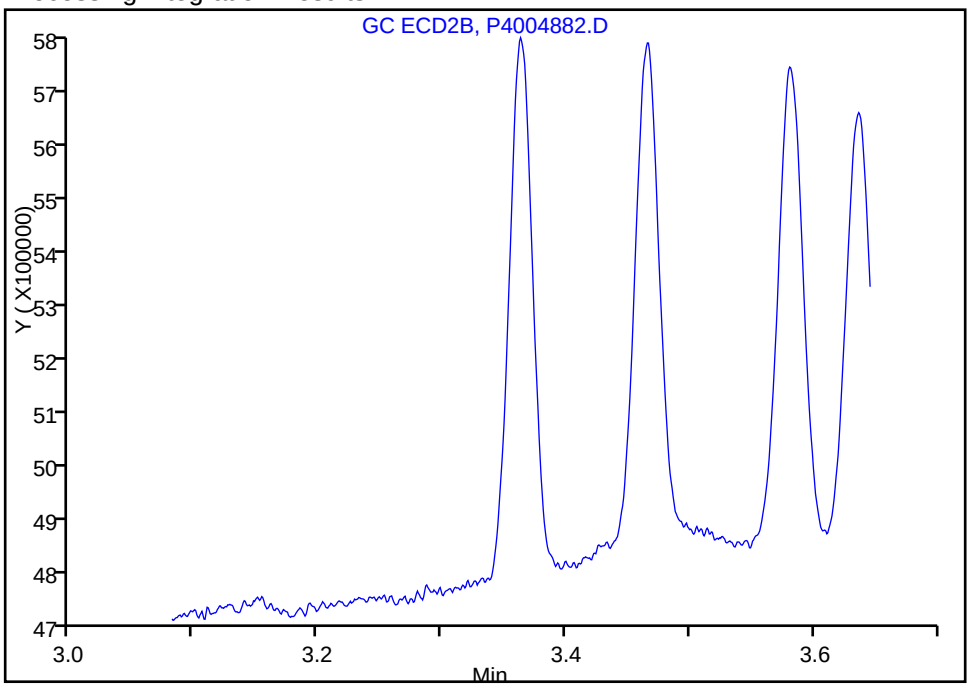
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

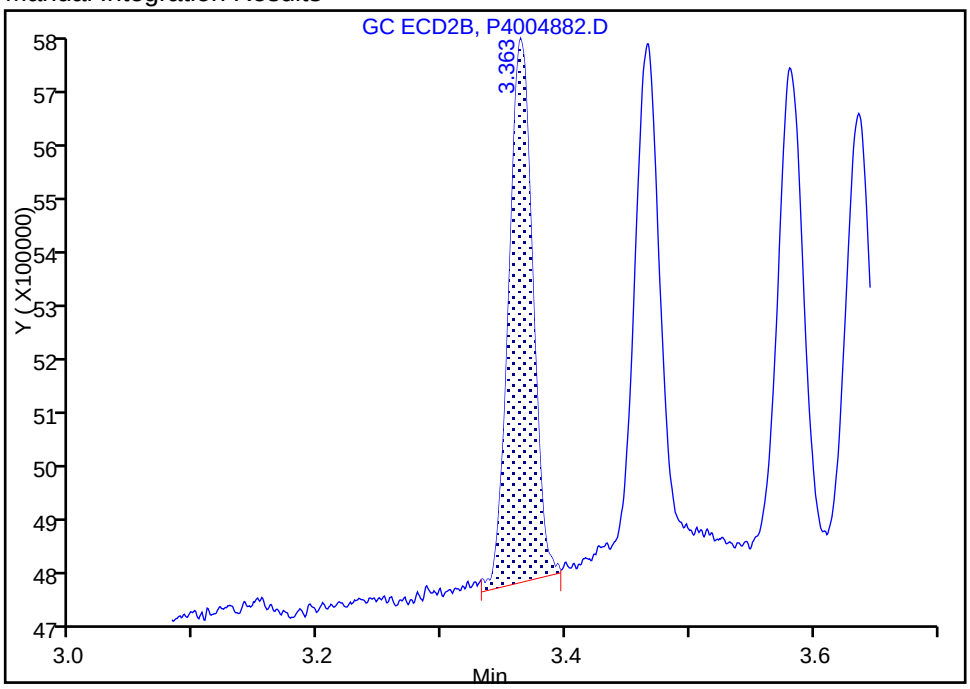
Not Detected
Expected RT: 3.36

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 1270694
Amount: 2.802367
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:36
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

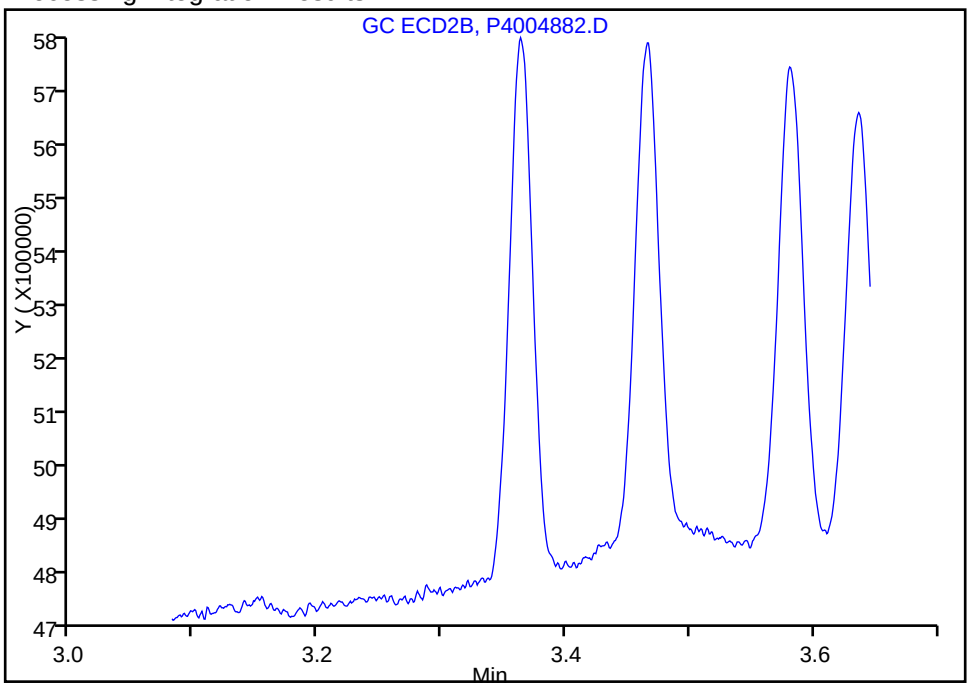
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

12 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

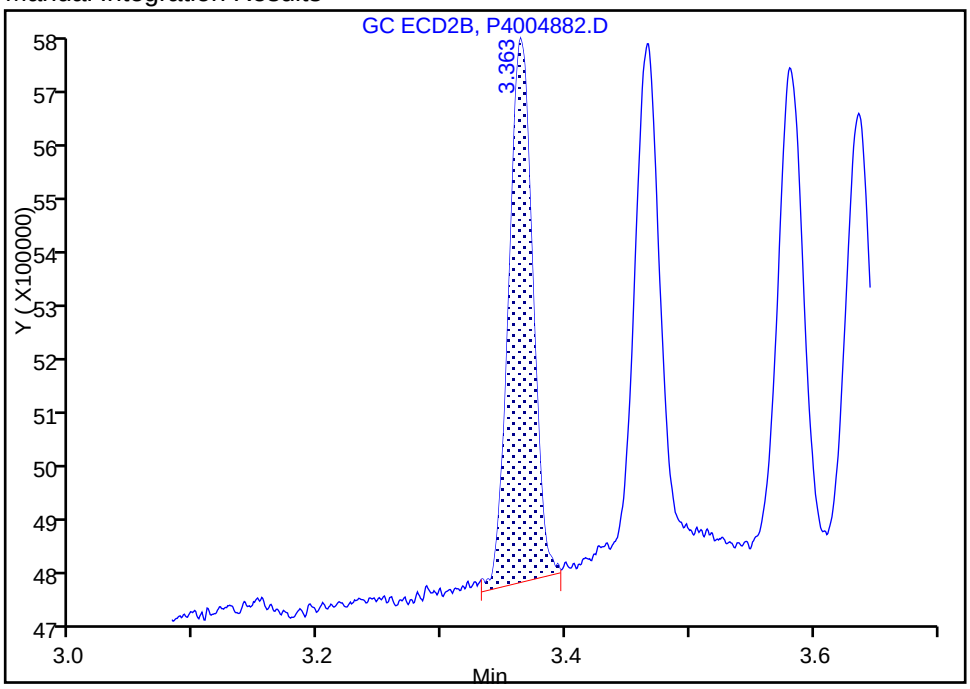
Not Detected
Expected RT: 3.36

Processing Integration Results



Manual Integration Results

RT: 3.36
Area: 1270694
Amount: 2.802367
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:37:08
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

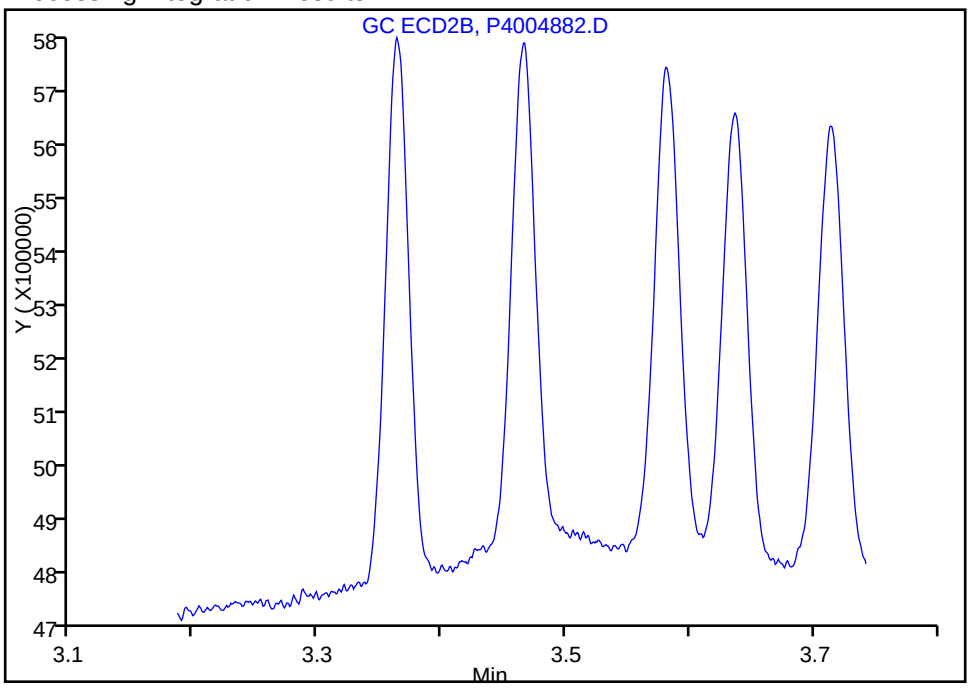
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

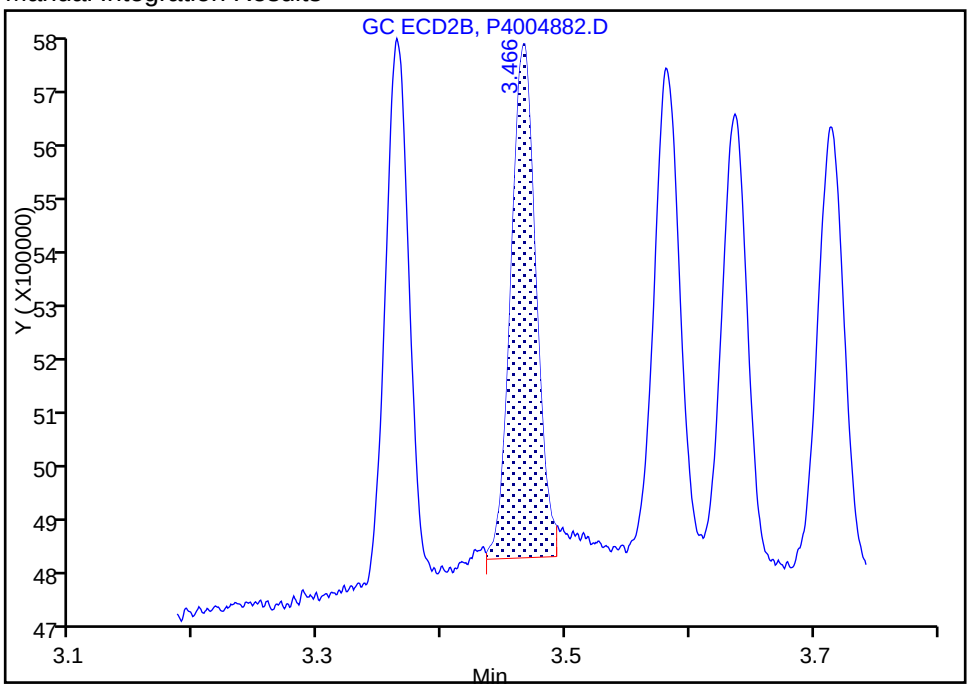
Processing Integration Results

Not Detected
Expected RT: 3.46



Manual Integration Results

RT: 3.47
Area: 1245826
Amount: 2.764335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:32:50
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

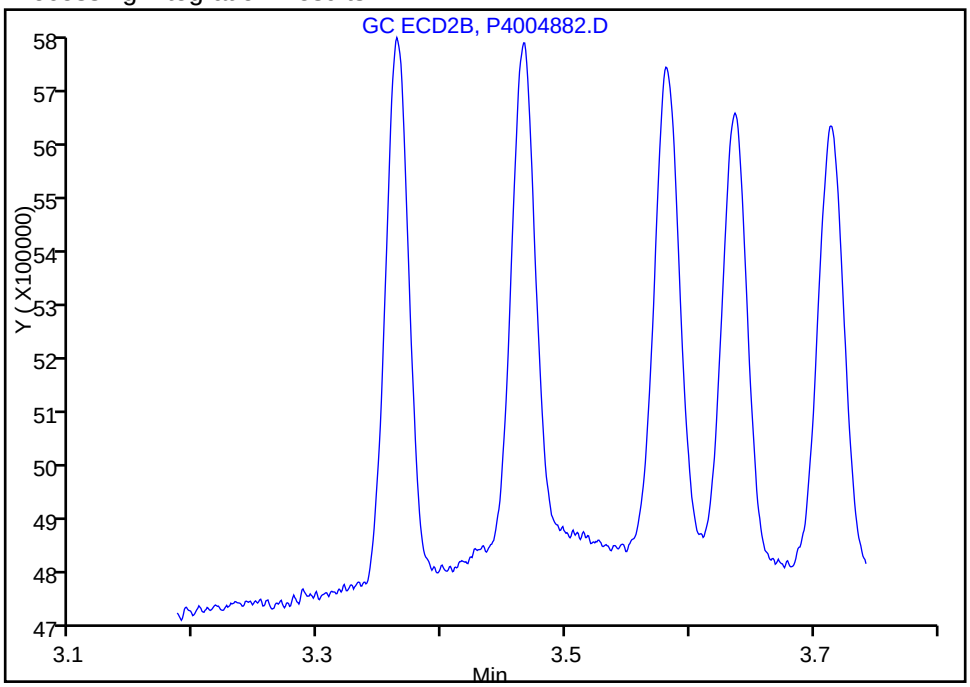
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

9 gamma-Chlordane, CAS: 5103-74-2

Signal: 2

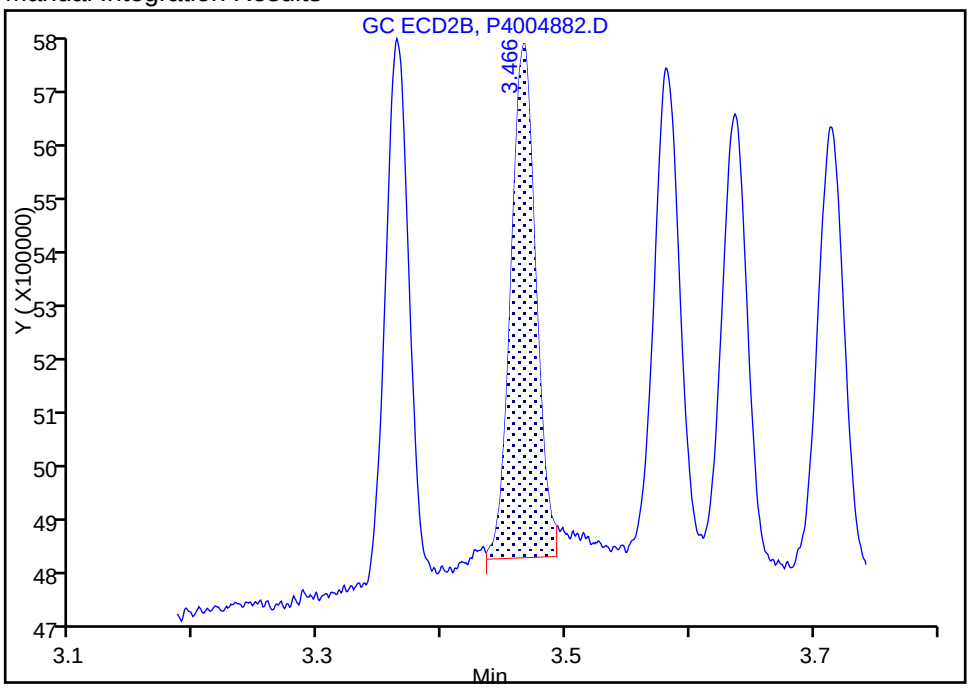
Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 1245826
Amount: 2.764335
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

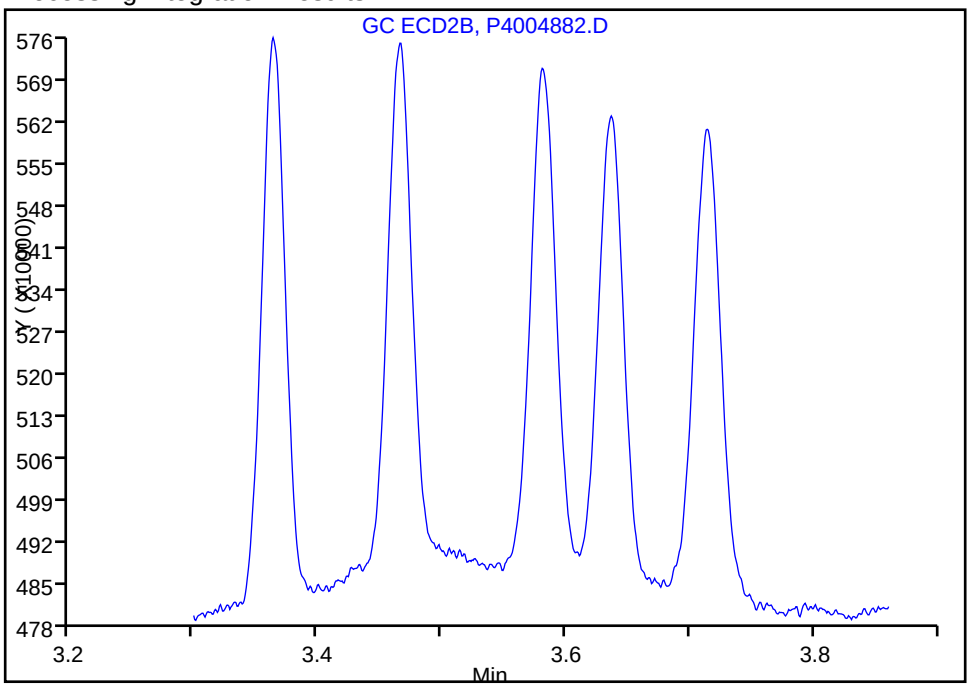
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

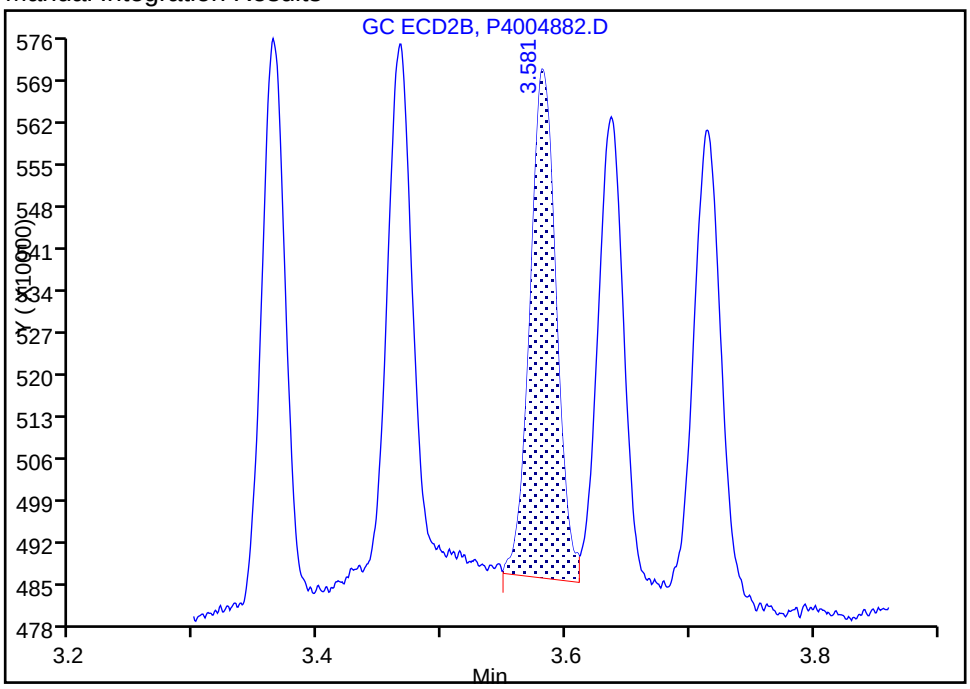
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 1245737
Amount: 2.843012
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:02
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

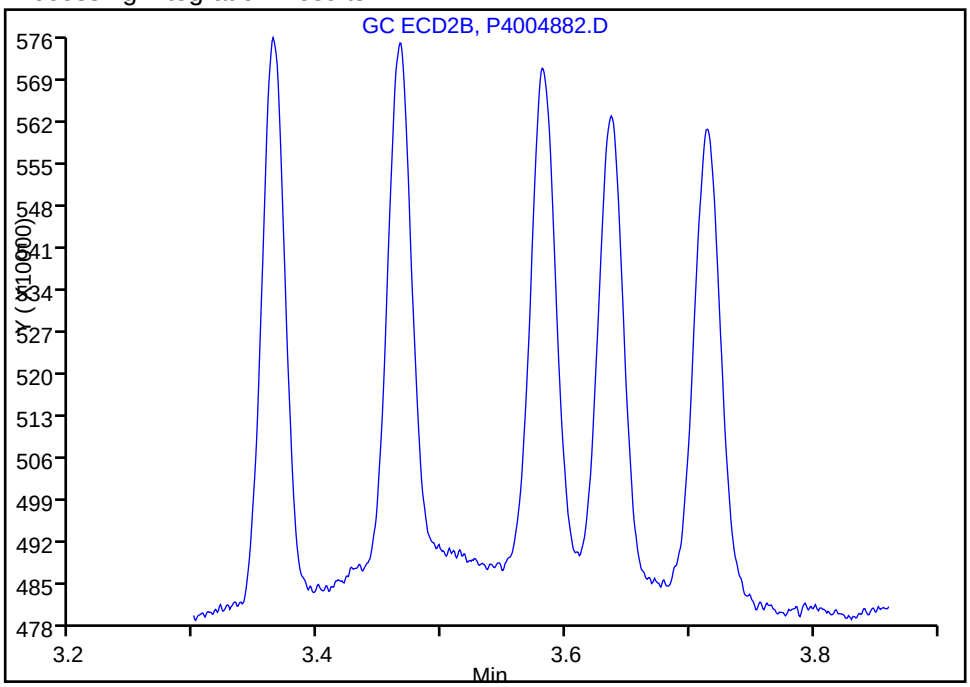
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

23 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

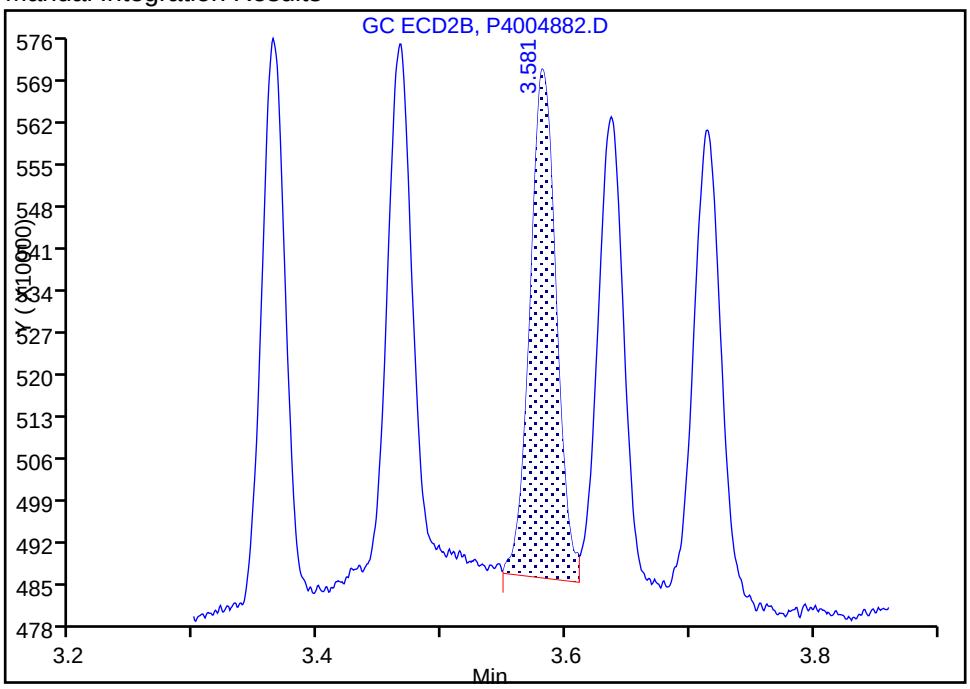
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 1245737
Amount: 2.843012
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:19
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

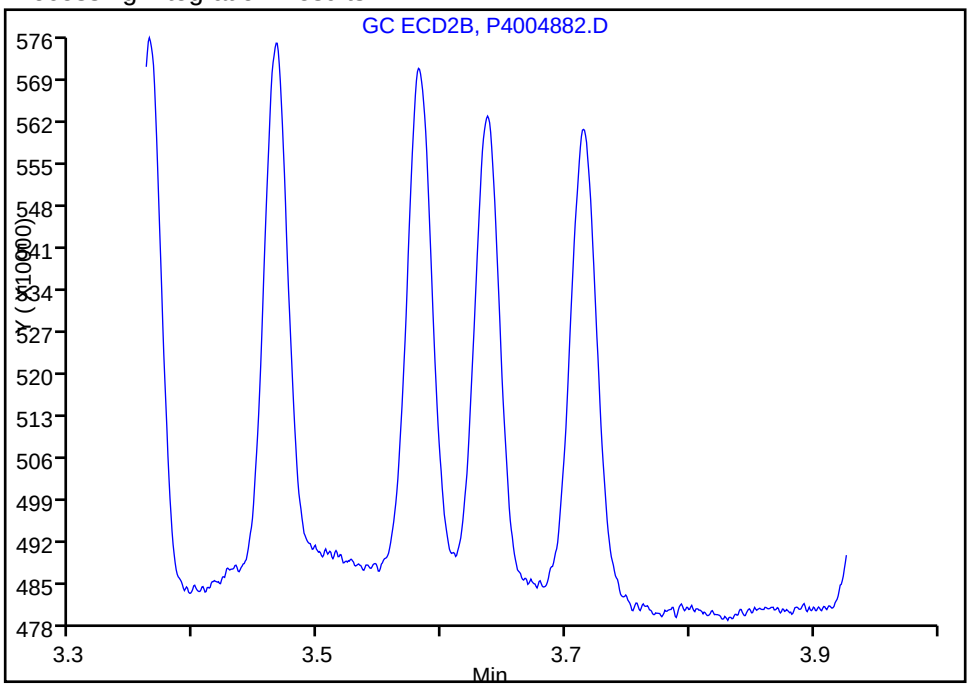
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

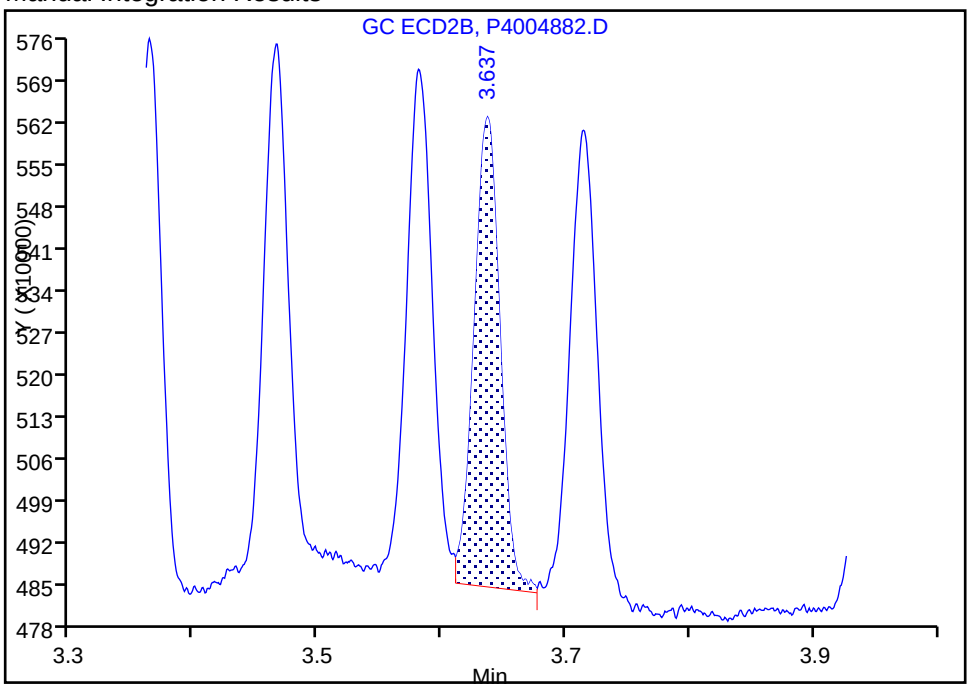
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 1142514
Amount: 2.627090
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:34
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

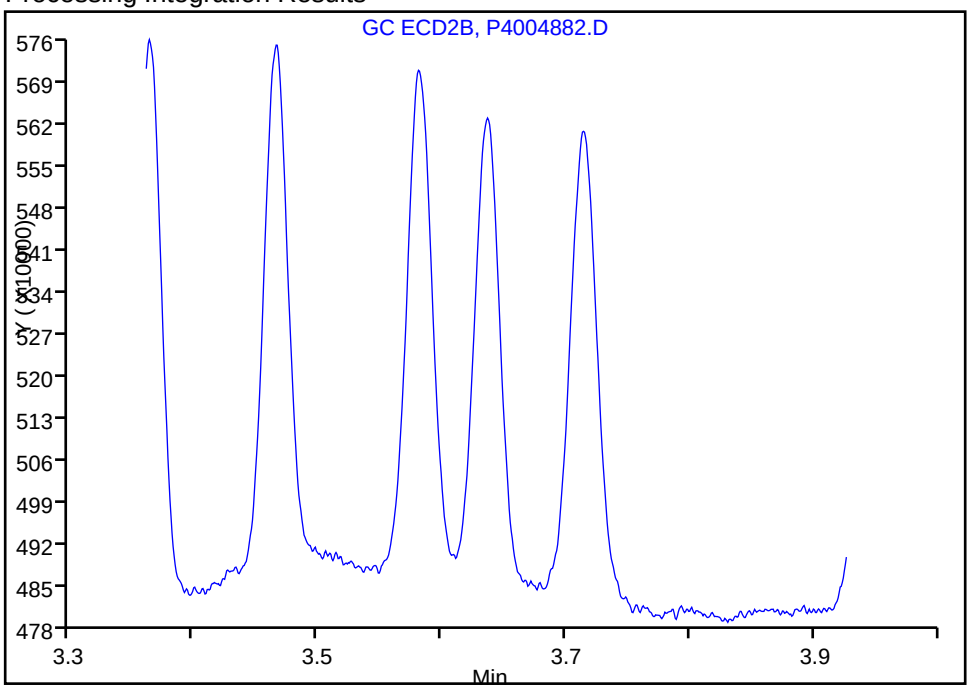
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

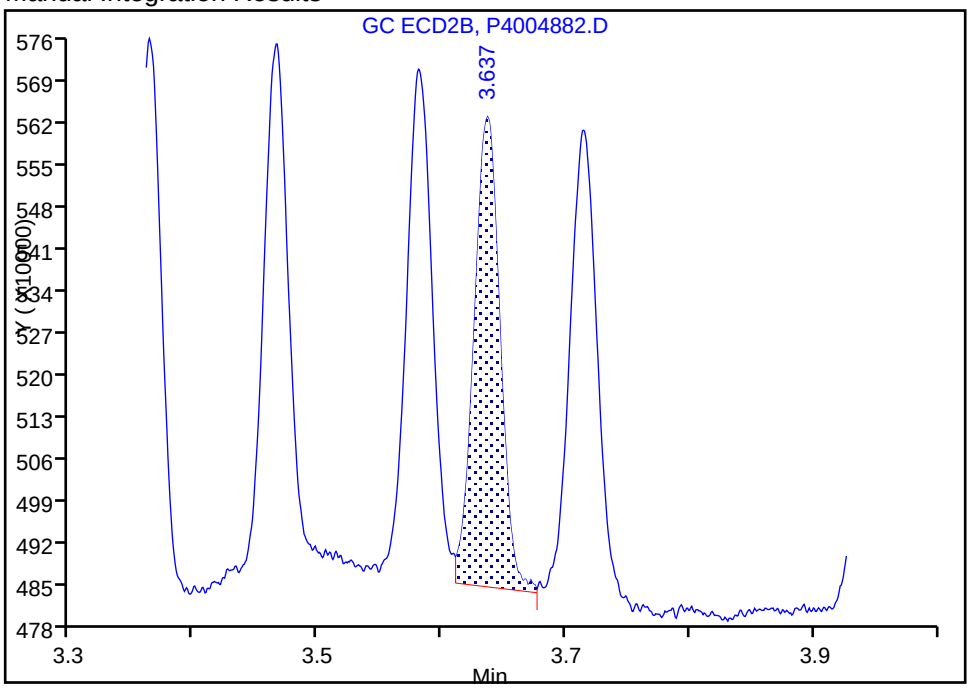
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 1142514
Amount: 2.627090
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:17:19
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

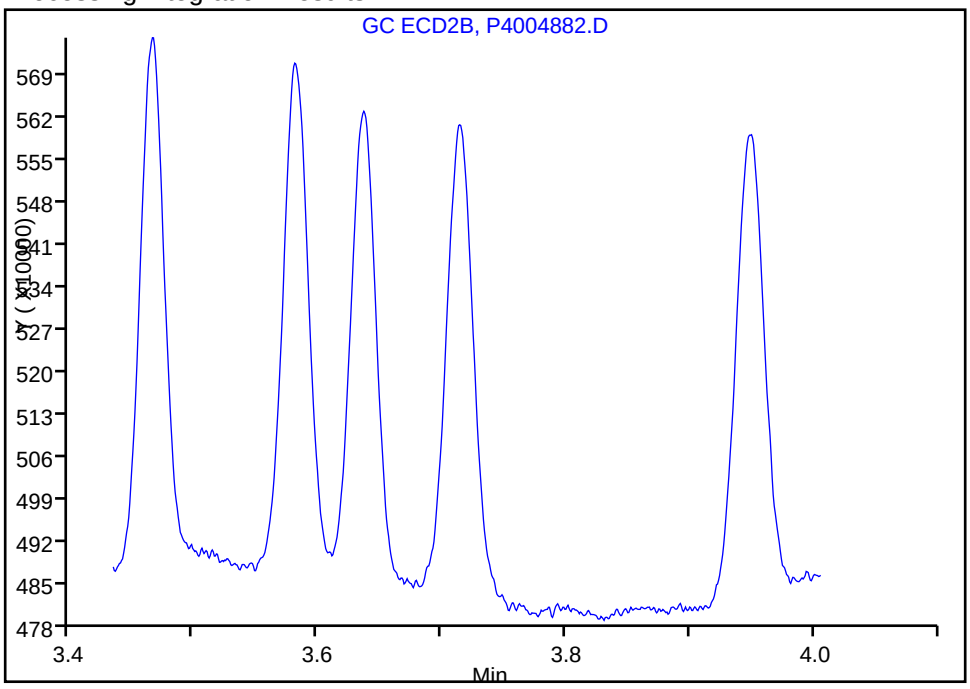
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

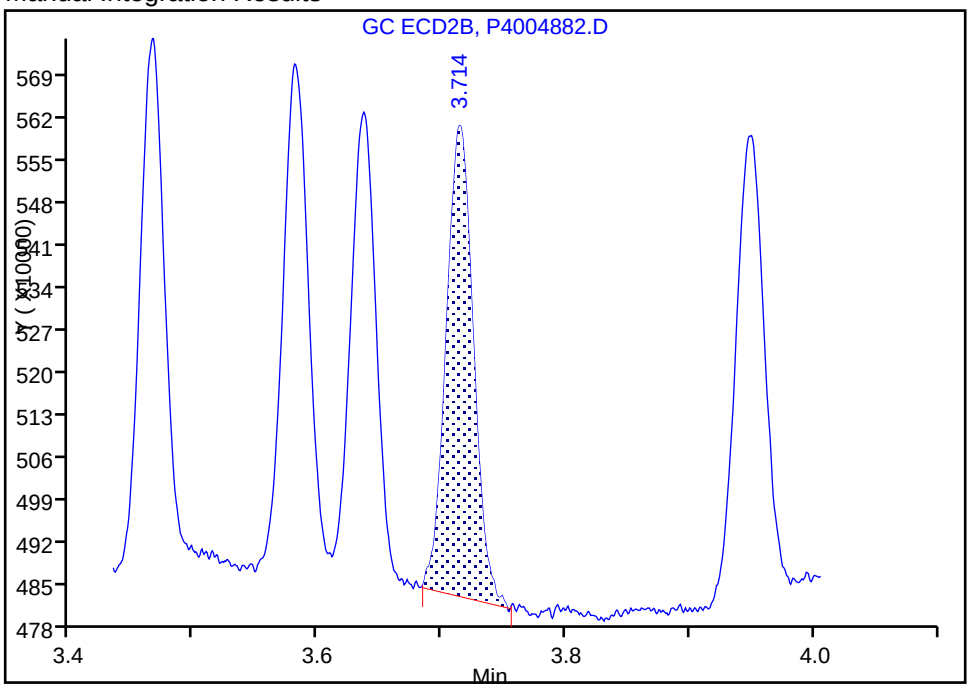
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 1182813
Amount: 2.765760
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

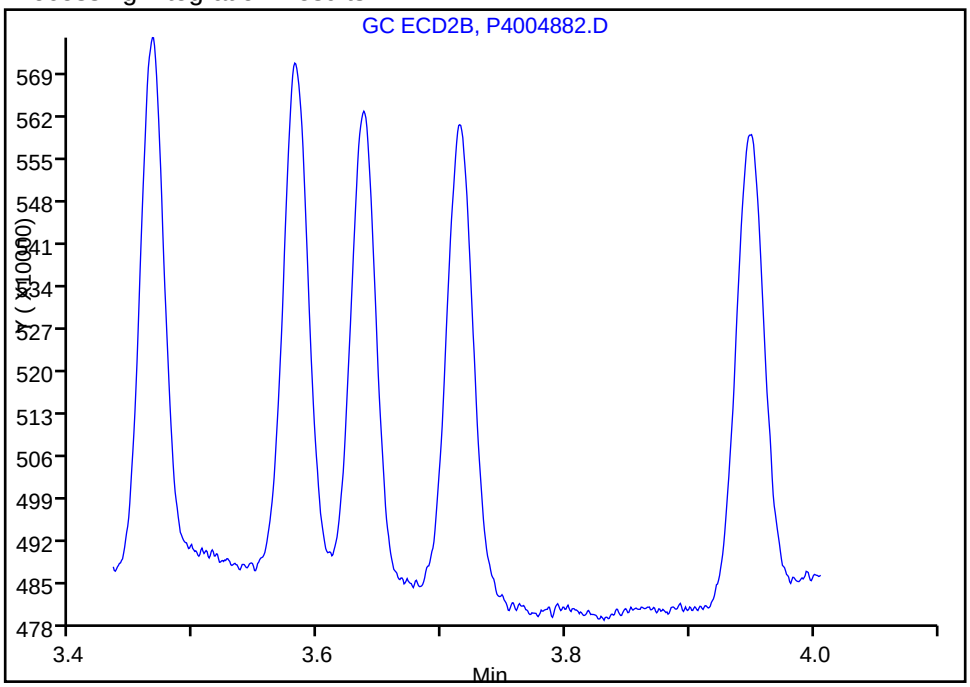
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

7 Endosulfan I, CAS: 959-98-8

Signal: 2

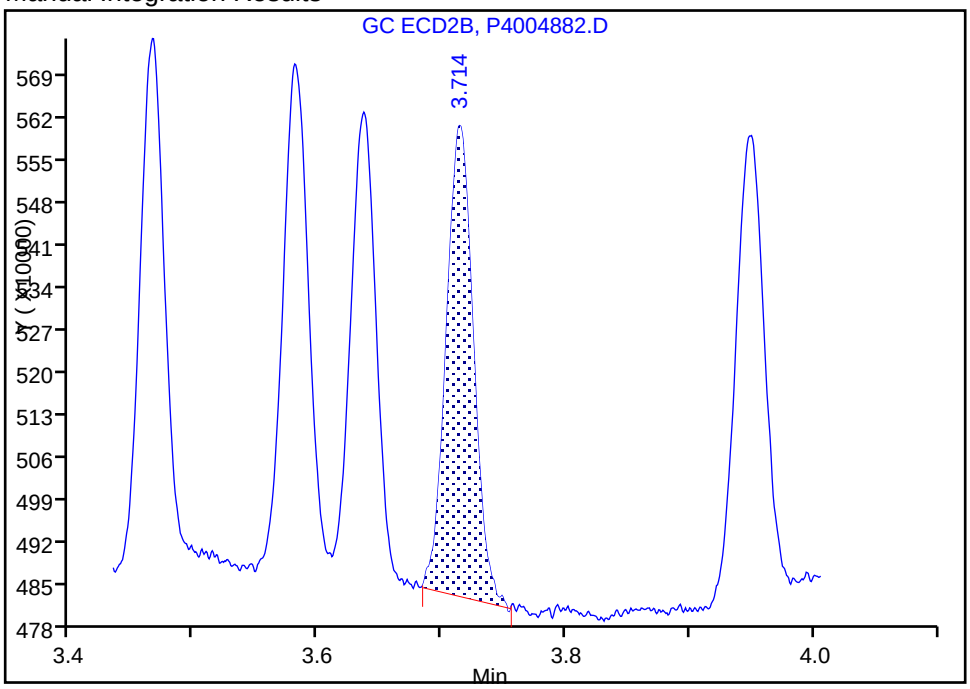
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 1182813
Amount: 2.765760
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:11:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

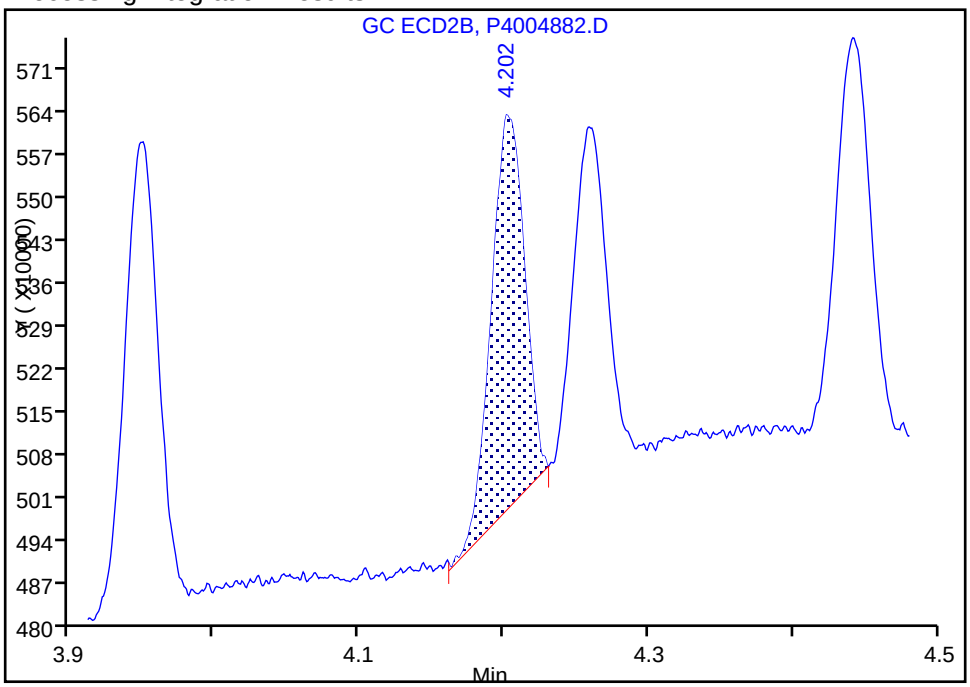
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

20 Endrin, CAS: 72-20-8

Signal: 2

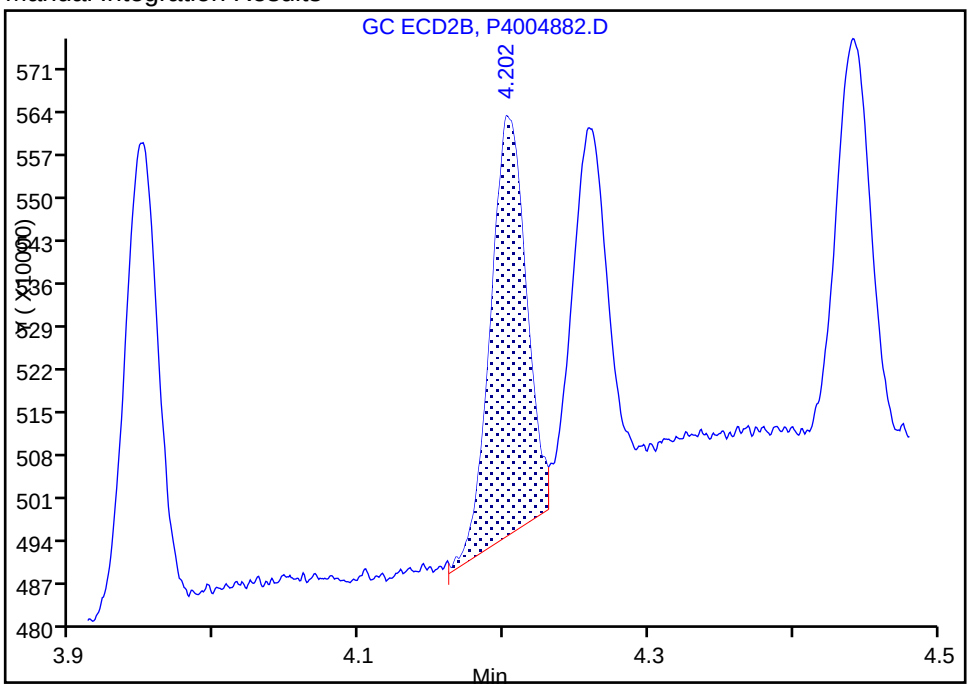
Processing Integration Results

RT: 4.20
Area: 1026884
Amount: 2.416207
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 1176601
Amount: 2.692600
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:56
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

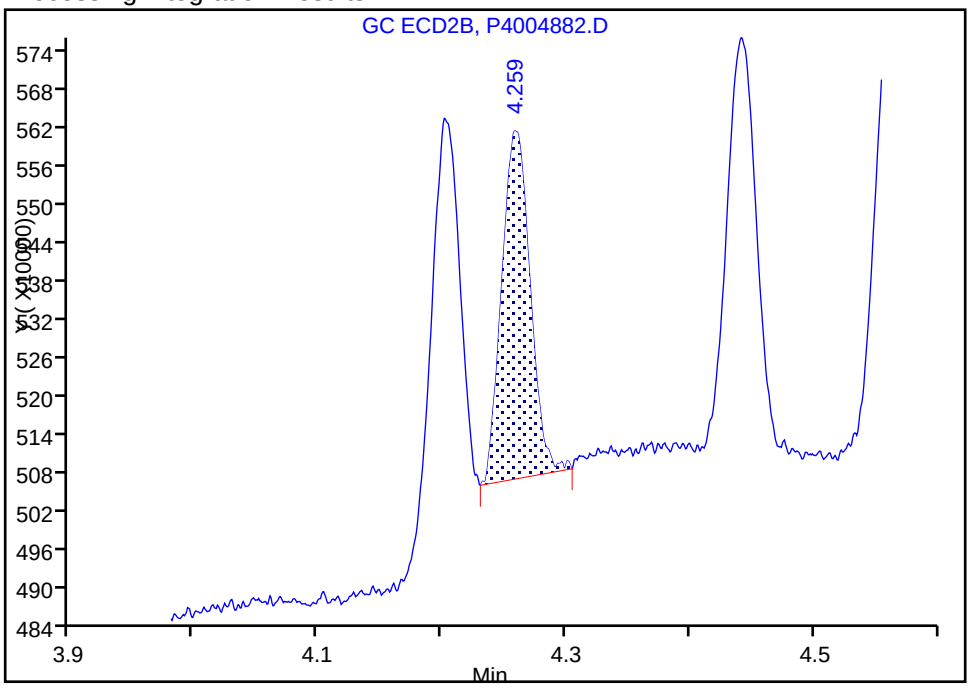
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

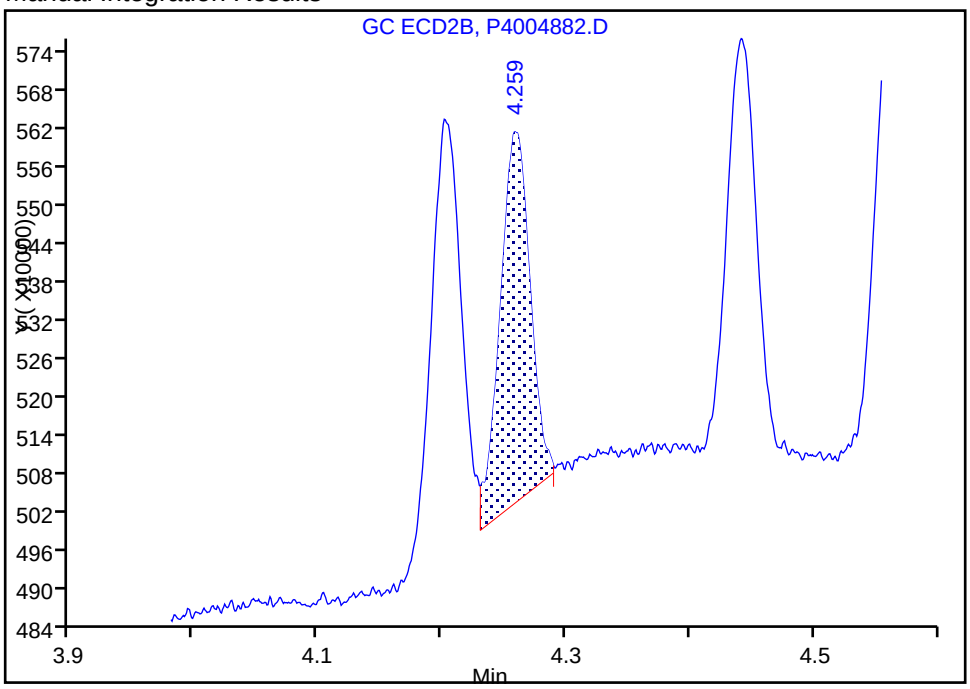
Processing Integration Results

RT: 4.26
Area: 863139
Amount: 2.331443
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 977082
Amount: 2.575795
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:56
Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

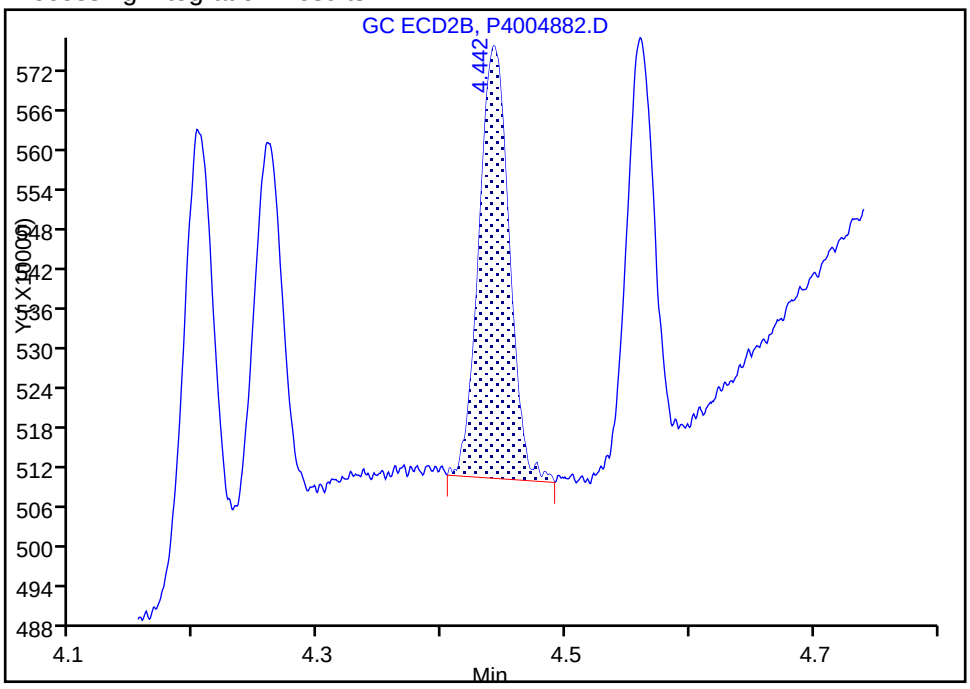
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

11 Endosulfan II, CAS: 33213-65-9

Signal: 2

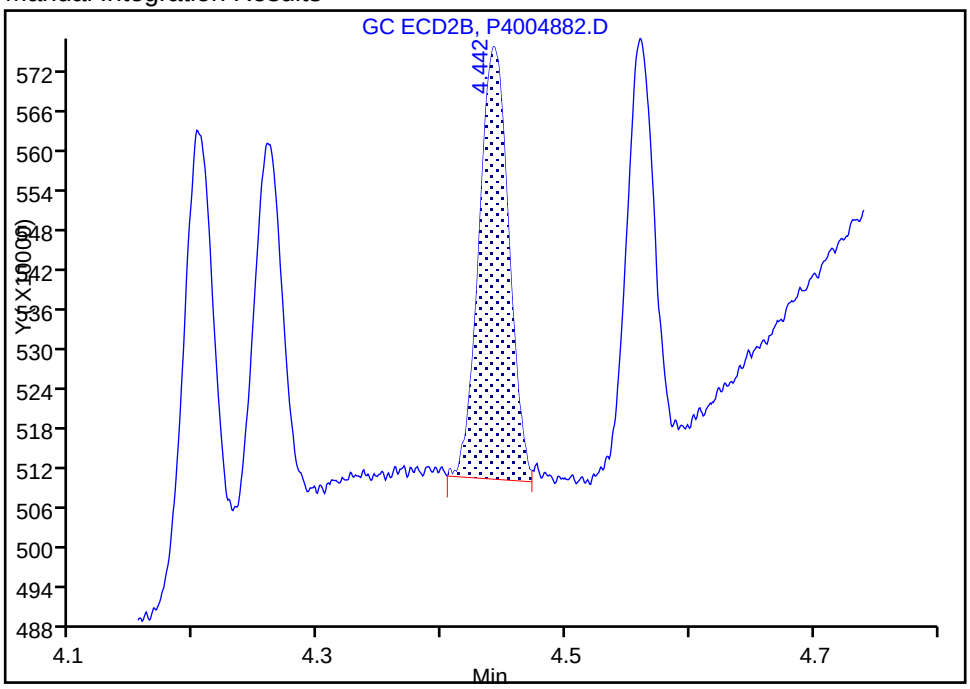
Processing Integration Results

RT: 4.44
Area: 1101549
Amount: 2.661453
Amount Units: ug/l



Manual Integration Results

RT: 4.44
Area: 1086632
Amount: 2.633003
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:51
Audit Action: Split an Integrated Peak Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

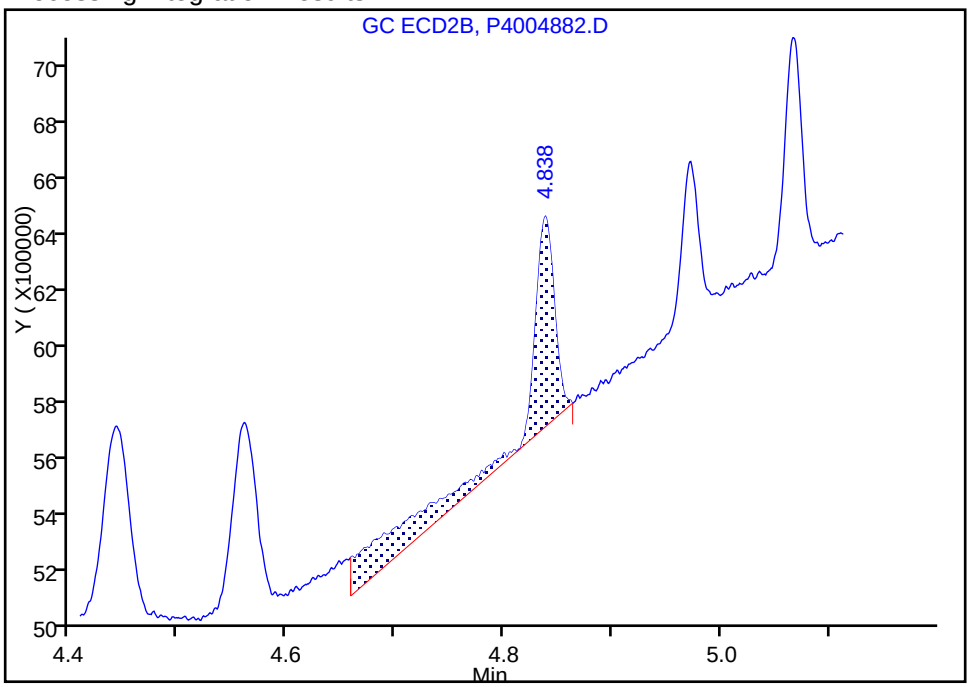
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 2

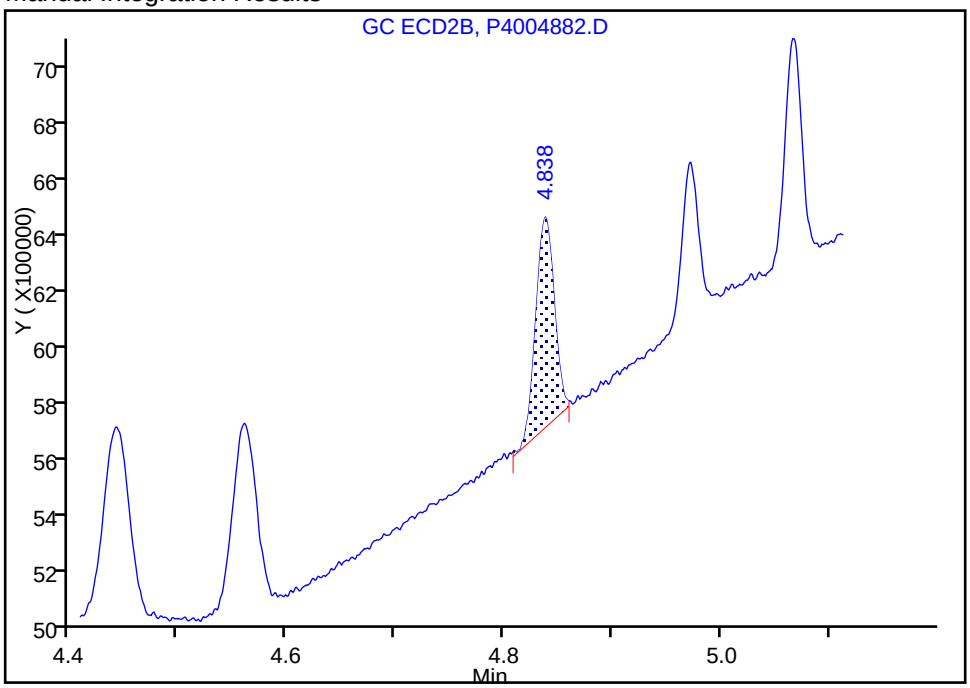
Processing Integration Results

RT: 4.84
Area: 1481231
Amount: 1.302458
Amount Units: ug/l



Manual Integration Results

RT: 4.84
Area: 848959
Amount: 2.466237
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 10:12:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

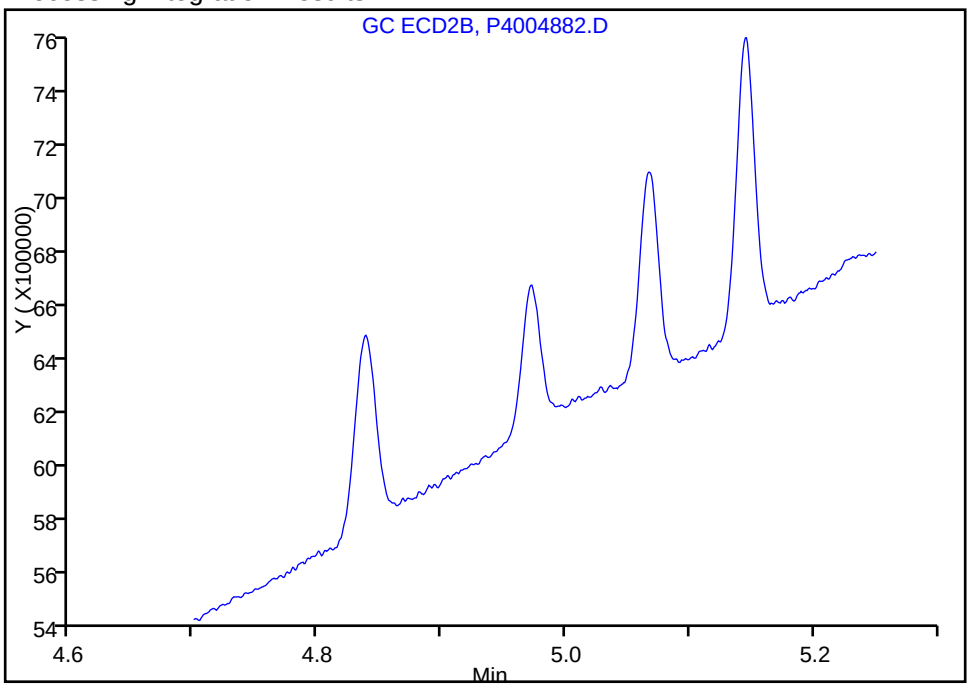
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

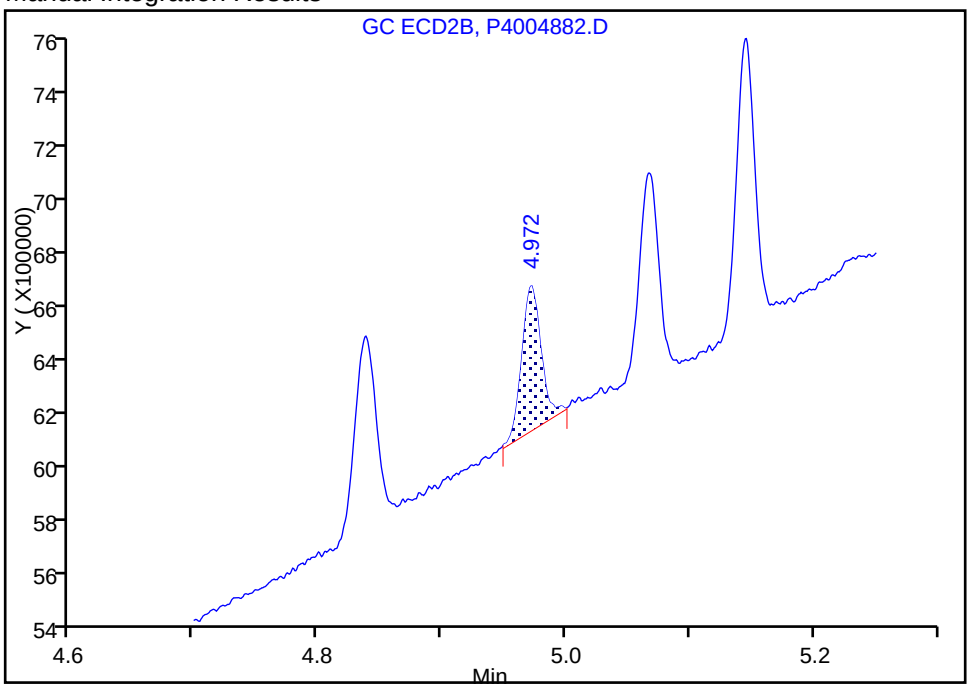
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 585719
Amount: 2.657556
Amount Units: ug/l



Reviewer: kapoors, 27-Sep-2017 09:33:53
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D

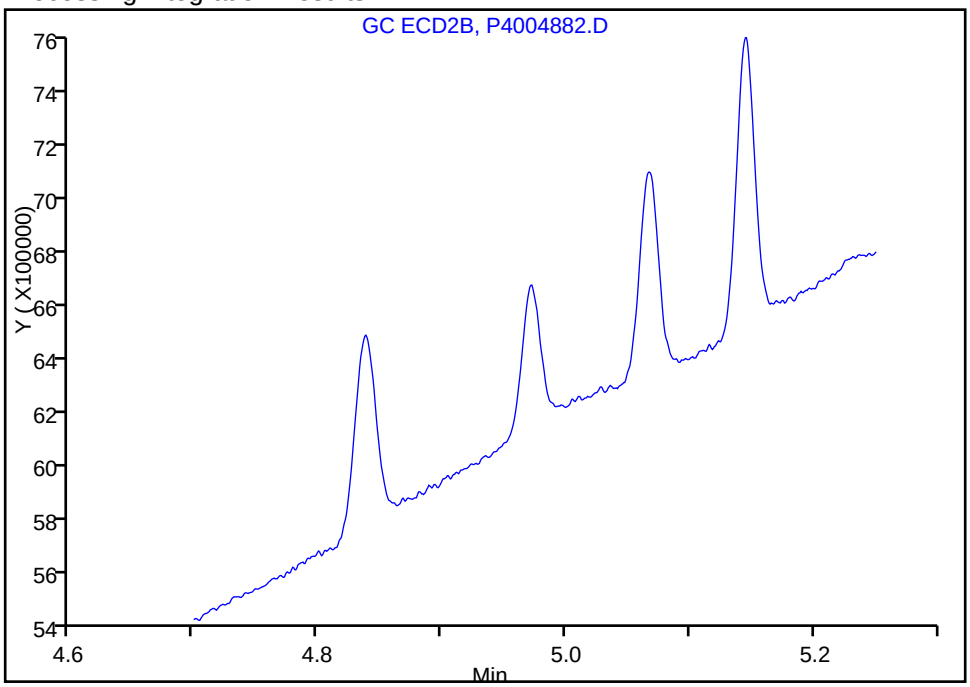
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

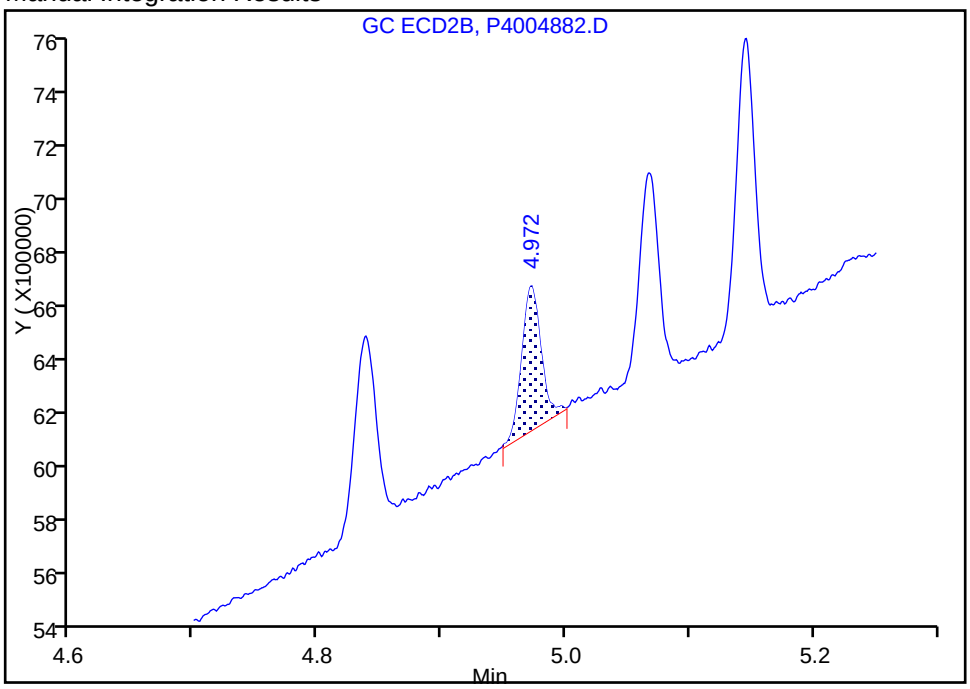
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97
Area: 585719
Amount: 2.657556
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:13
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

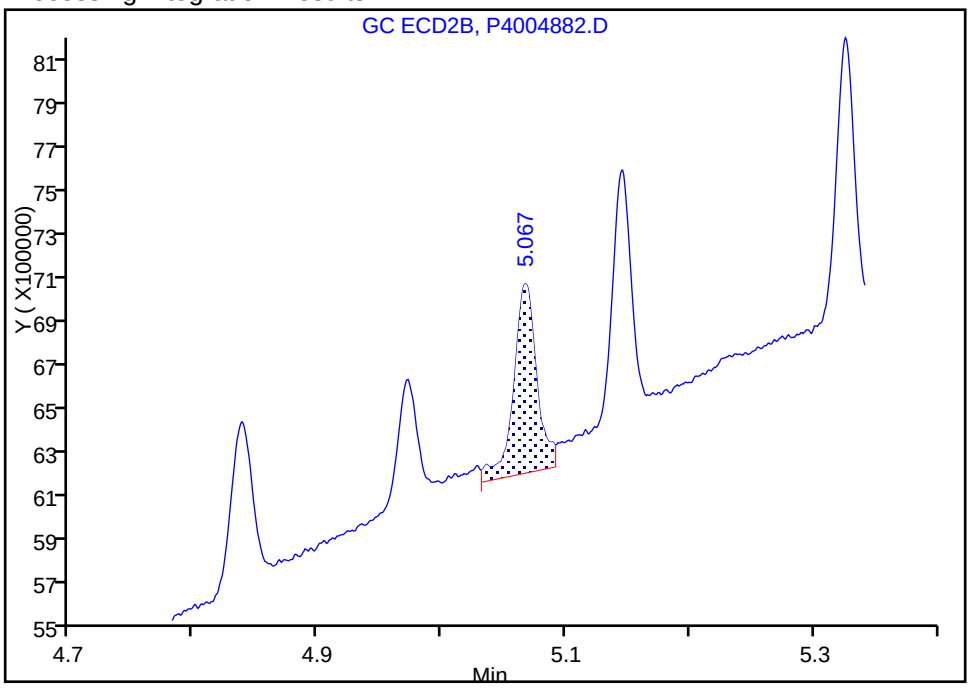
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D
Injection Date: 27-Sep-2017 08:22:06 Instrument ID: CPESTGC4
Lims ID: STD PESTL1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

34 Mirex, CAS: 2385-85-5

Signal: 2

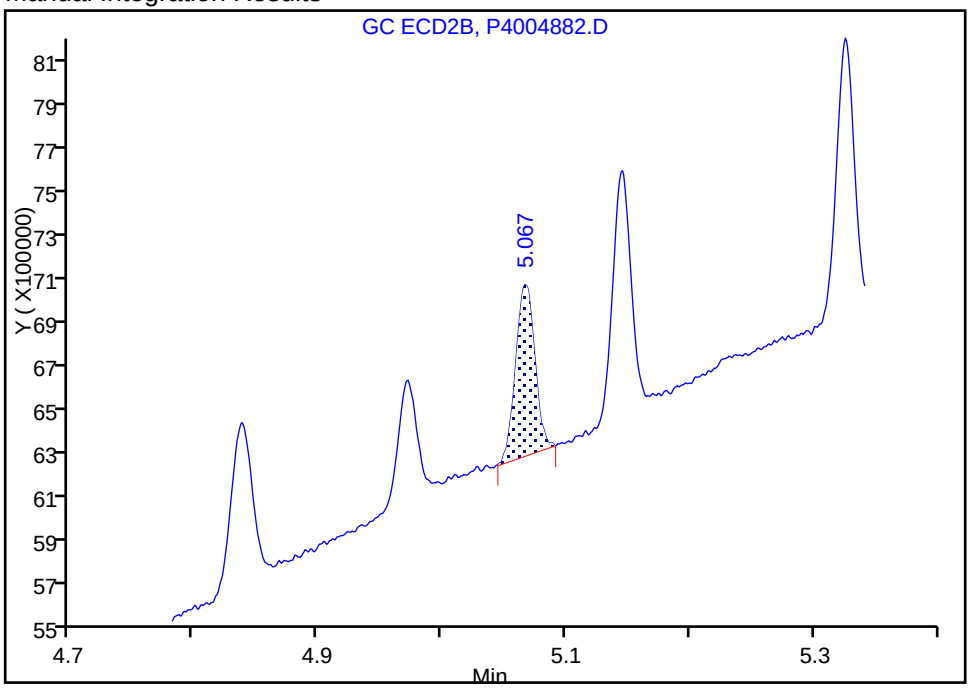
Processing Integration Results

RT: 5.07
Area: 1082180
Amount: 3.308341
Amount Units: ug/l



Manual Integration Results

RT: 5.07
Area: 810826
Amount: 2.682310
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:15
Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

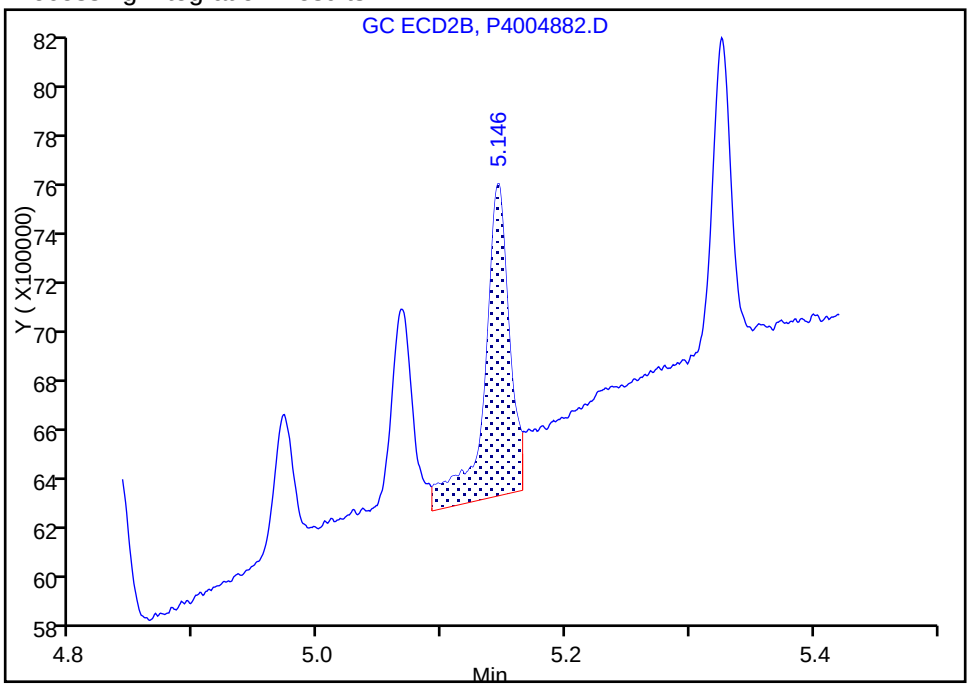
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

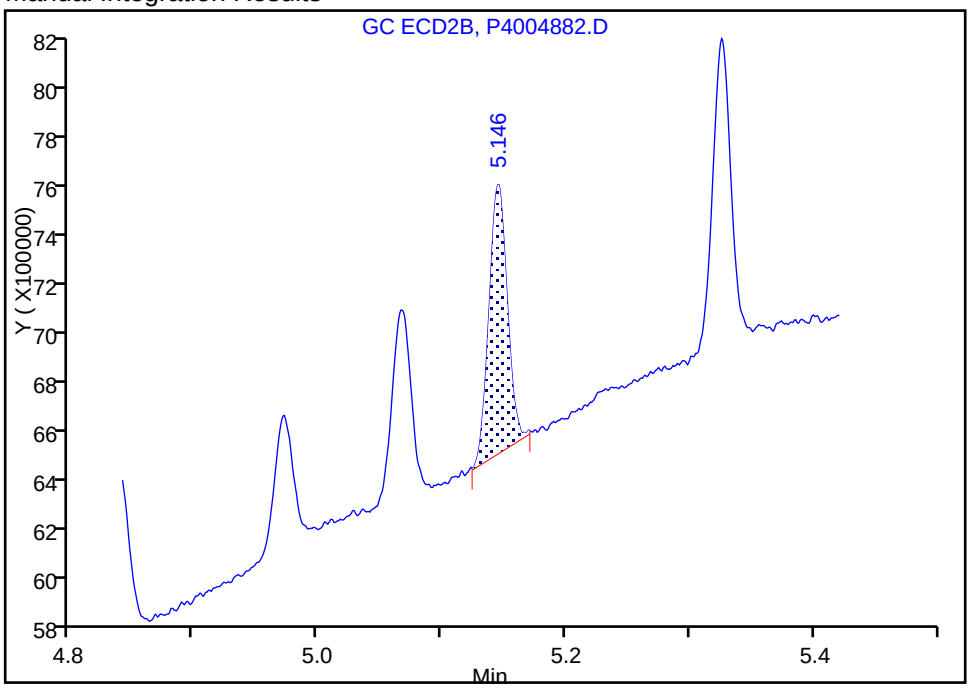
Processing Integration Results

RT: 5.15
Area: 1732438
Amount: 2.263230
Amount Units: ug/l



Manual Integration Results

RT: 5.15
Area: 1101769
Amount: 2.616887
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:17

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Edison

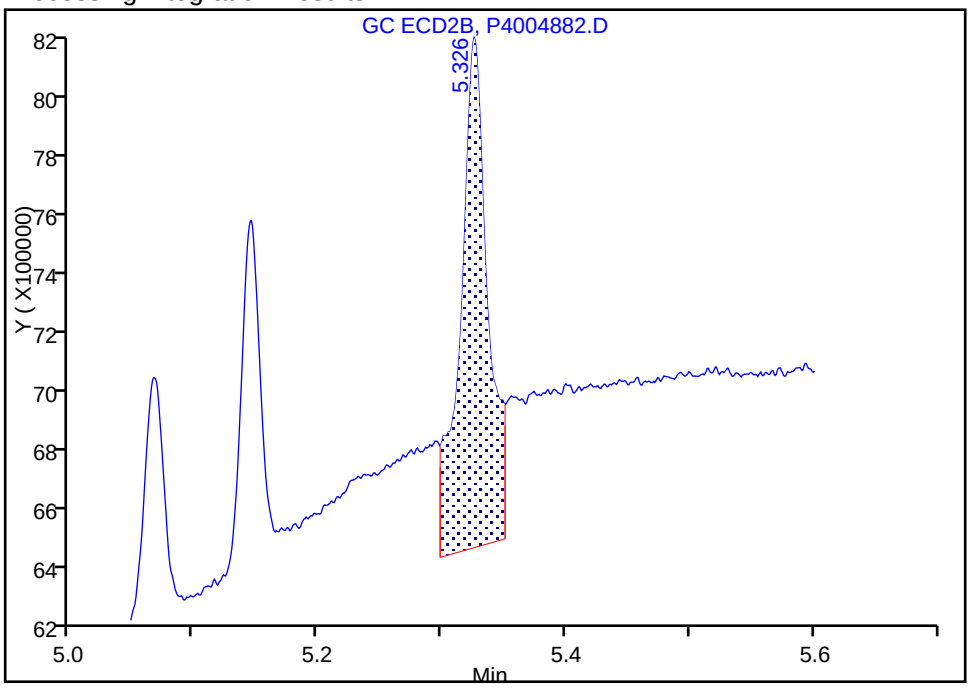
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004882.D				
Injection Date:	27-Sep-2017 08:22:06	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

13 Endrin ketone, CAS: 53494-70-5

Signal: 2

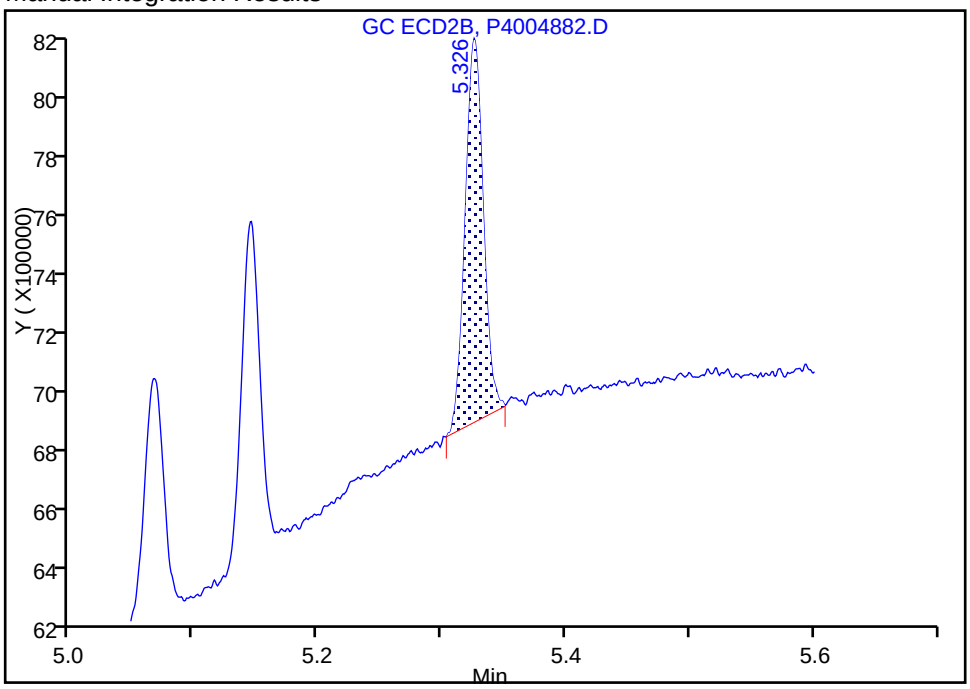
Processing Integration Results

RT: 5.33
Area: 2495661
Amount: 2.260792
Amount Units: ug/l



Manual Integration Results

RT: 5.33
Area: 1235923
Amount: 2.595378
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:38:09

Audit Action: Manually Integrated Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D
Lims ID: STD PESTL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 08:34:19 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-004
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:36:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	30995442	100.0	100.0	
2	1.514	1.513	0.001	41249170	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.230	0.003	15222511	50.0	49.2	
2	1.887	1.885	0.002	19404595	50.0	49.7	
						RPD = 0.96	
15 alpha-BHC							
1	2.654	2.651	0.003	22273426	50.0	49.9	
2	2.209	2.208	0.001	28125700	50.0	49.5	
						RPD = 0.86	
2 gamma-BHC (Lindane)							
1	2.922	2.918	0.004	21406764	50.0	51.7	
2	2.402	2.400	0.002	25889272	50.0	49.9	
						RPD = 3.50	
6 beta-BHC							
1	2.971	2.967	0.004	9807394	50.0	54.2	
2	2.448	2.447	0.001	11597674	50.0	51.6	
						RPD = 4.98	
32 delta-BHC							
1	3.220	3.218	0.002	21741221	50.0	51.4	
2	2.565	2.563	0.002	25739135	50.0	49.7	
						RPD = 3.52	
18 Heptachlor							
1	3.297	3.294	0.003	21115027	50.0	51.4	
2	2.699	2.698	0.001	25502692	50.0	50.1	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							M
1	3.605	3.603	0.002	20146283	50.0	52.0	M
2	2.907	2.905	0.002	22924487	50.0	48.6	
						RPD = 6.71	
12 Heptachlor epoxide							M
1	4.210	4.208	0.002	18929078	50.0	53.7	M
2	3.361	3.359	0.002	22174471	50.0	49.9	
						RPD = 7.33	
9 gamma-Chlordane							M
1	4.419	4.418	0.001	17992167	50.0	51.0	M
2	3.464	3.462	0.002	22027564	50.0	49.9	
						RPD = 2.26	
23 alpha-Chlordane							
1	4.580	4.578	0.002	16937472	50.0	50.8	
2	3.579	3.577	0.002	21460792	50.0	50.0	
						RPD = 1.60	
7 Endosulfan I							
1	4.651	4.648	0.003	16278318	50.0	50.4	
2	3.711	3.709	0.002	21290606	50.0	50.8	
						RPD = 0.84	
25 4,4'-DDE							
1	4.723	4.722	0.001	17087976	50.0	51.3	
2	3.634	3.632	0.002	21496333	50.0	50.4	
						RPD = 1.74	
30 Dieldrin							
1	4.889	4.886	0.003	17932440	50.0	50.7	
2	3.945	3.943	0.002	23215863	50.0	50.1	
						RPD = 1.15	
20 Endrin							
1	5.112	5.110	0.002	15709414	50.0	50.2	
2	4.199	4.198	0.001	21185619	50.0	49.5	
						RPD = 1.52	
16 4,4'-DDD							
1	5.167	5.165	0.002	13829574	50.0	49.6	
2	4.255	4.253	0.002	18476782	50.0	49.7	
						RPD = 0.16	
11 Endosulfan II							
1	5.254	5.253	0.001	14997308	50.0	49.7	
2	4.439	4.437	0.002	20626396	50.0	51.0	
						RPD = 2.47	
21 4,4'-DDT							
1	5.382	5.380	0.002	14759027	50.0	50.1	
2	4.557	4.555	0.002	19665583	50.0	51.0	
						RPD = 1.80	
5 Endrin aldehyde							
1	5.482	5.480	0.002	12666436	50.0	49.9	
2	4.834	4.834	0.000	17226948	50.0	51.0	
						RPD = 2.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.693	5.692	0.001	14704500	50.0	50.5	
2	5.142	5.142	0.000	21141579	50.0	51.2	
						RPD = 1.43	
10 Methoxychlor							
1	5.929	5.927	0.002	8347253	50.0	51.9	
2	4.969	4.968	0.001	10951141	50.0	50.7	
						RPD = 2.38	
34 Mirex							M
1	6.134	6.133	0.001	9955340	50.0	48.3	M
2	5.064	5.063	0.001	14534654	50.0	49.0	
						RPD = 1.49	
13 Endrin ketone							M
1	6.169	6.167	0.002	16702227	50.0	50.9	M
2	5.323	5.323	0.000	24267944	50.0	52.0	
						RPD = 2.08	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.092	0.002	11638272	50.0	50.9	
2	6.117	6.116	0.001	19292555	50.0	51.6	
						RPD = 1.50	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

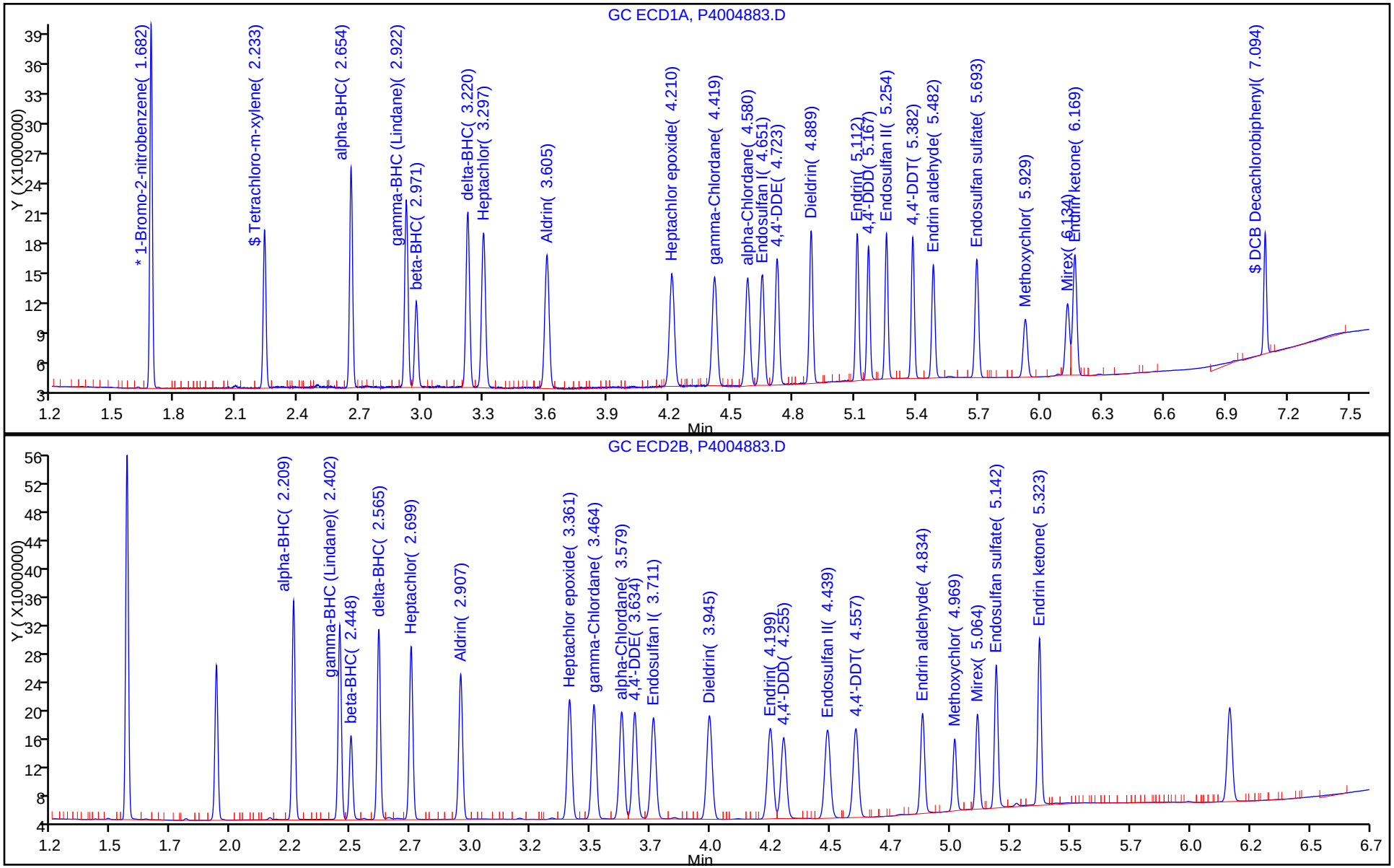
SGPESTL2_00027	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004883.D

Injection Date:	27-Sep-2017 08:34:19	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D
Lims ID: STD PESTL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 08:46:34 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-005
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:19 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:14:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31440597	100.0	100.0	
2	1.514	1.514	0.000	41941013	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	31435133	100.0	100.2	
2	1.887	1.887	0.000	40999889	100.0	103.3	
						RPD = 3.01	
15 alpha-BHC							
1	2.654	2.654	0.000	44917872	100.0	99.2	
2	2.210	2.210	0.000	58964160	100.0	102.0	
						RPD = 2.79	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	42238244	100.0	100.5	
2	2.402	2.402	0.000	53365655	100.0	101.1	
						RPD = 0.63	
6 beta-BHC							
1	2.970	2.970	0.000	18689999	100.0	101.8	
2	2.449	2.449	0.000	22684079	100.0	99.2	
						RPD = 2.62	
32 delta-BHC							
1	3.220	3.220	0.000	42830724	100.0	99.9	
2	2.565	2.565	0.000	53466596	100.0	101.4	
						RPD = 1.54	
18 Heptachlor							
1	3.297	3.297	0.000	41381412	100.0	99.3	
2	2.700	2.700	0.000	52065379	100.0	100.5	
						RPD = 1.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	38526393	100.0	98.0	
2	2.907	2.907	0.000	47263361	100.0	98.6	
						RPD = 0.58	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	37669401	100.0	105.3	
2	3.362	3.362	0.000	45313024	100.0	100.2	
						RPD = 4.92	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	36499048	100.0	102.0	M
2	3.464	3.464	0.000	45042212	100.0	100.3	
						RPD = 1.70	
23 alpha-Chlordane							
1	4.580	4.580	0.000	34366860	100.0	101.5	
2	3.580	3.580	0.000	43513175	100.0	99.6	
						RPD = 1.91	
7 Endosulfan I							
1	4.651	4.651	0.000	33506968	100.0	102.2	
2	3.712	3.712	0.000	42806026	100.0	100.4	
						RPD = 1.75	
25 4,4'-DDE							
1	4.723	4.723	0.000	35199730	100.0	104.2	
2	3.634	3.634	0.000	43691386	100.0	100.8	
						RPD = 3.31	
30 Dieldrin							
1	4.887	4.887	0.000	36985897	100.0	103.1	
2	3.946	3.946	0.000	48478494	100.0	102.9	
						RPD = 0.15	
20 Endrin							
1	5.112	5.112	0.000	32977577	100.0	103.9	
2	4.200	4.200	0.000	44412680	100.0	102.0	
						RPD = 1.89	
16 4,4'-DDD							M
1	5.166	5.166	0.000	29934272	100.0	105.8	M
2	4.256	4.256	0.000	39034234	100.0	103.2	
						RPD = 2.50	
11 Endosulfan II							M
1	5.254	5.254	0.000	32512750	100.0	106.3	M
2	4.439	4.439	0.000	42274152	100.0	102.8	
						RPD = 3.38	
21 4,4'-DDT							M
1	5.381	5.381	0.000	31987959	100.0	107.0	M
2	4.557	4.557	0.000	40739512	100.0	103.9	
						RPD = 2.96	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	28247674	100.0	109.8	M
2	4.835	4.835	0.000	36095786	100.0	105.2	M
						RPD = 4.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.692	5.692	0.000	30913060	100.0	104.6	M
2	5.143	5.143	0.000	42870824	100.0	102.1	M
						RPD = 2.42	
10 Methoxychlor							M
1	5.928	5.928	0.000	17015761	100.0	104.3	
2	4.969	4.969	0.000	22746030	100.0	103.5	M
						RPD = 0.74	
34 Mirex							M
1	6.133	6.133	0.000	20783921	100.0	99.4	
2	5.065	5.065	0.000	29991407	100.0	99.5	M
						RPD = 0.08	
13 Endrin ketone							M
1	6.169	6.169	0.000	33900608	100.0	101.9	
2	5.323	5.323	0.000	48279033	100.0	101.7	M
						RPD = 0.16	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	23785382	100.0	102.5	
2	6.117	6.117	0.000	38977750	100.0	102.6	
						RPD = 0.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

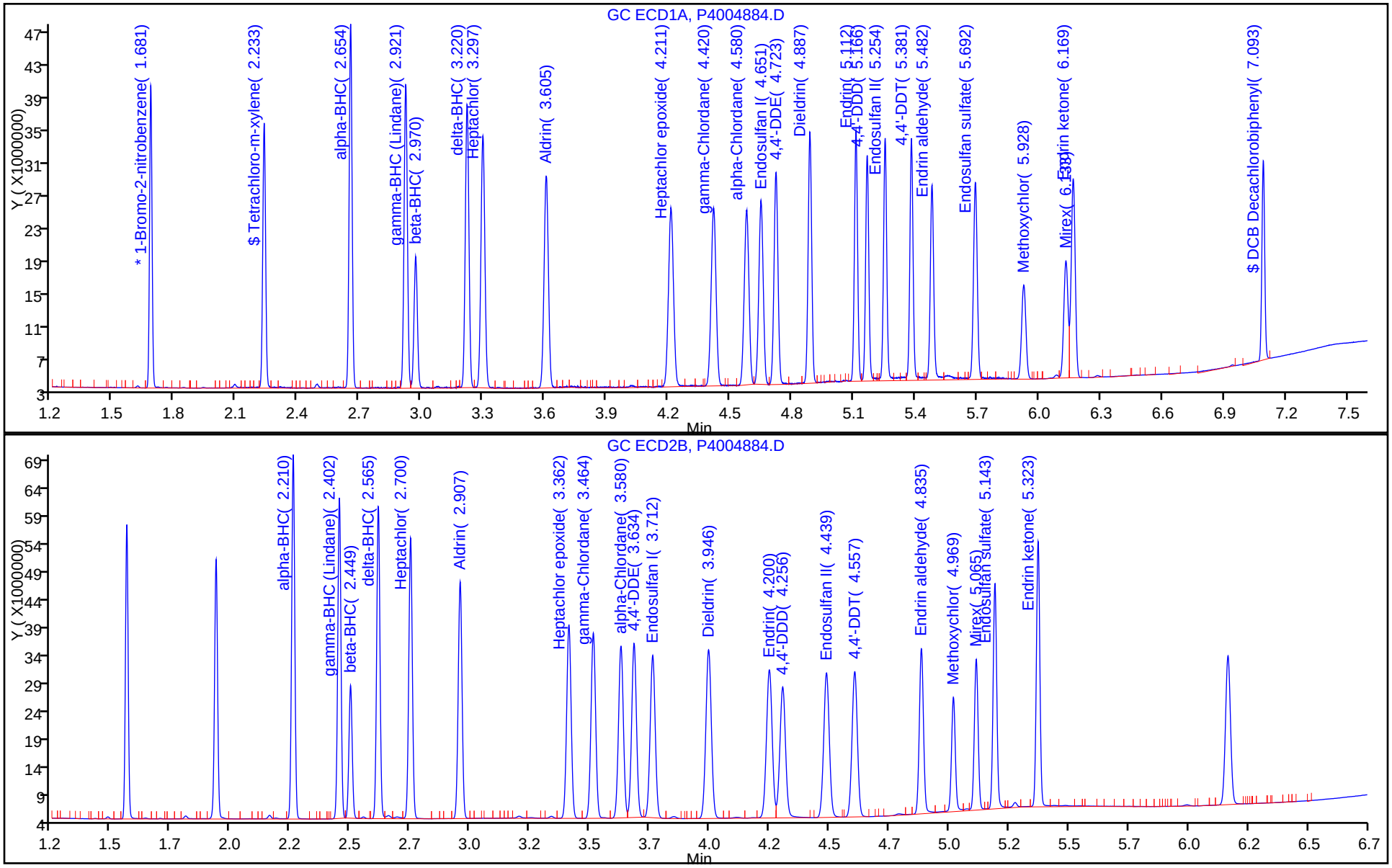
SGPESTL3_00029	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D

Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

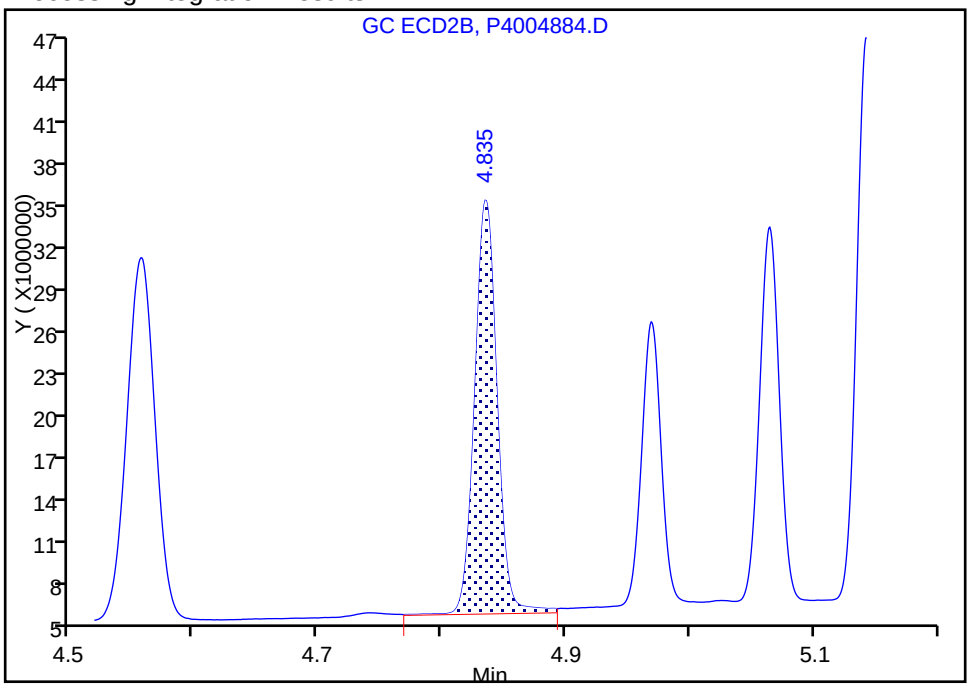
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

5 Endrin aldehyde, CAS: 7421-93-4

Signal: 2

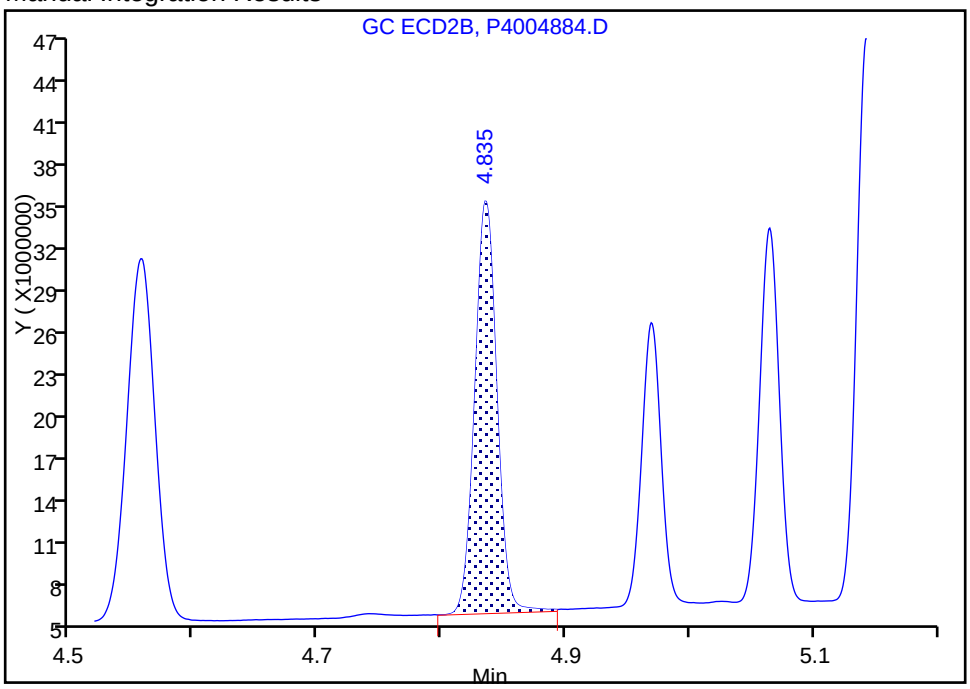
Processing Integration Results

RT: 4.83
Area: 36753605
Amount: 106.6970
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 36095786
Amount: 105.1891
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

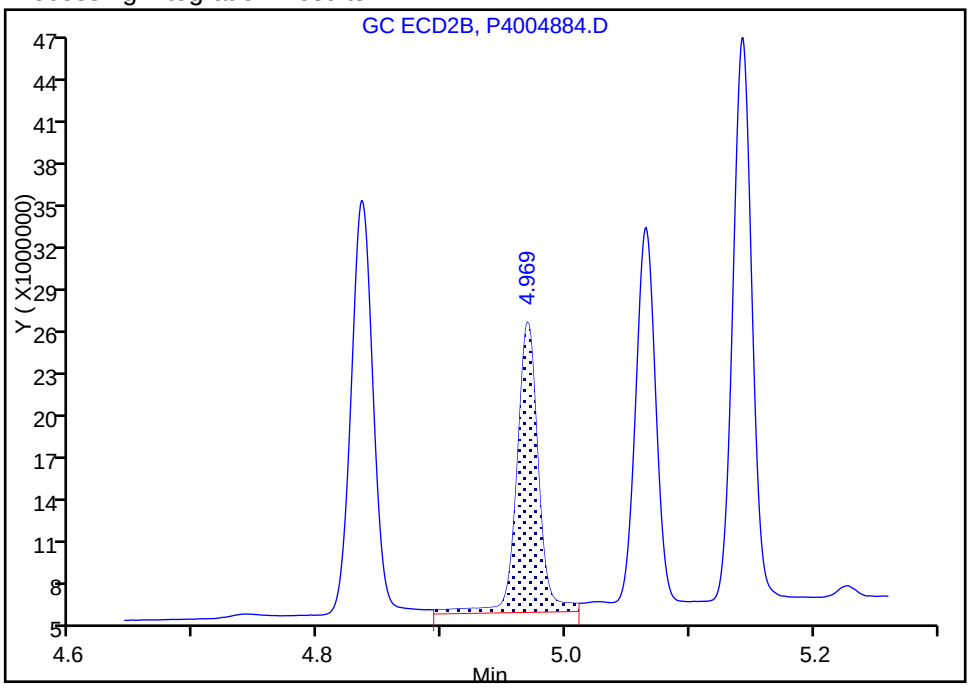
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

10 Methoxychlor, CAS: 72-43-5

Signal: 2

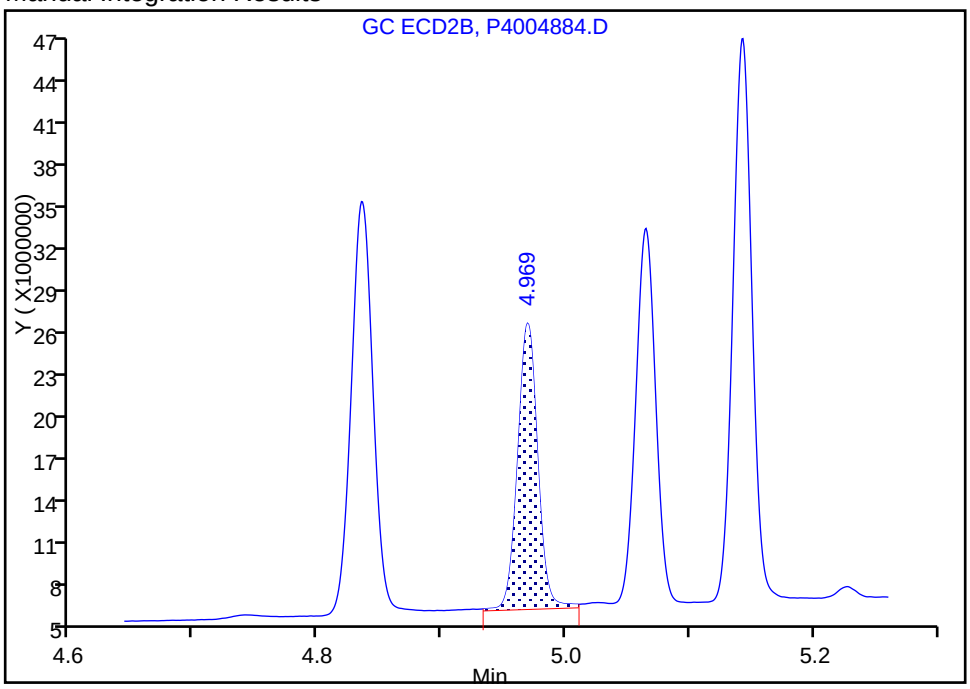
Processing Integration Results

RT: 4.97
Area: 24785519
Amount: 110.7562
Amount Units: ug/l



Manual Integration Results

RT: 4.97
Area: 22746030
Amount: 103.5297
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

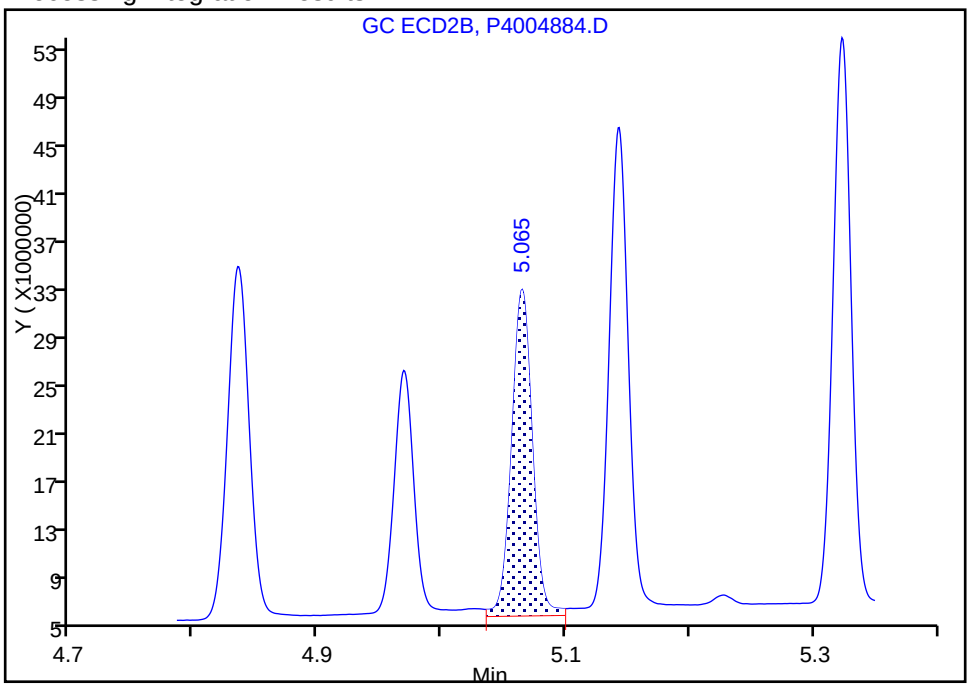
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

34 Mirex, CAS: 2385-85-5

Signal: 2

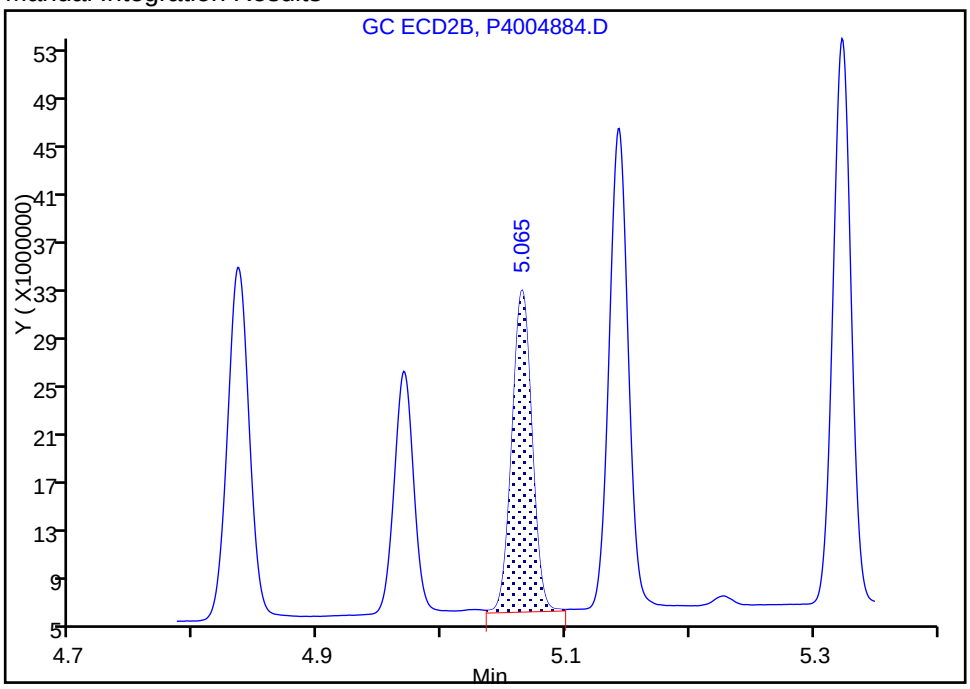
Processing Integration Results

RT: 5.06
Area: 31542378
Amount: 103.6082
Amount Units: ug/l



Manual Integration Results

RT: 5.06
Area: 29991407
Amount: 99.527749
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

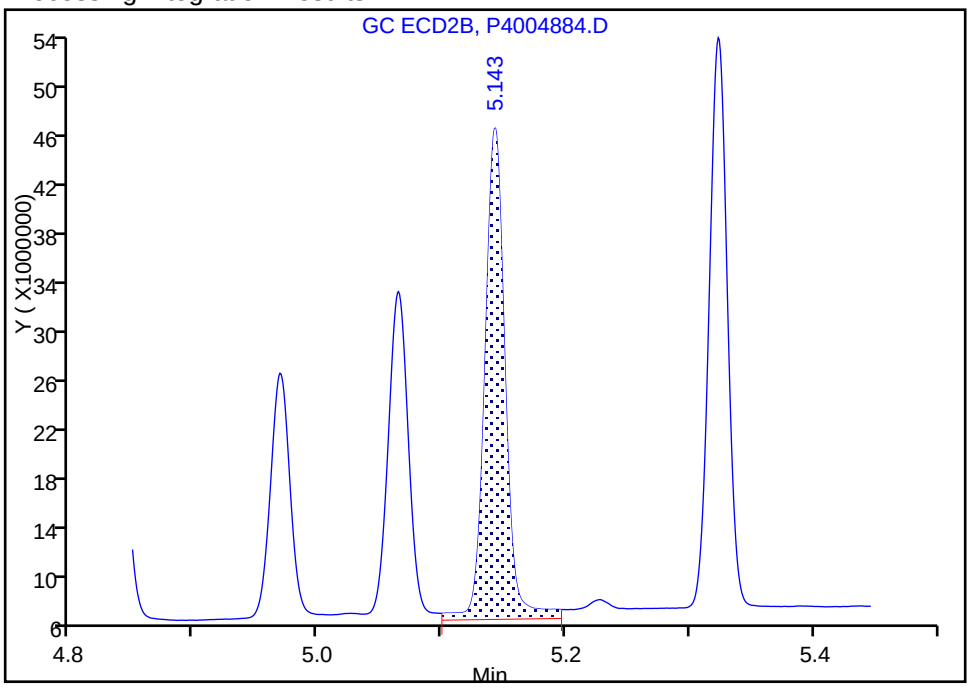
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

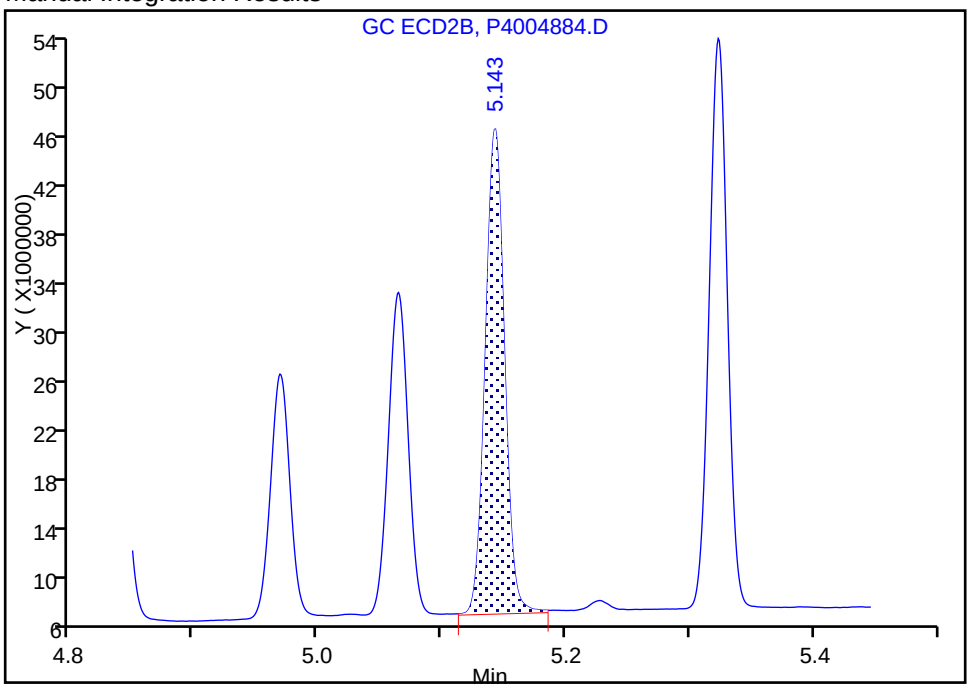
Processing Integration Results

RT: 5.14
Area: 46055310
Amount: 108.0934
Amount Units: ug/l



Manual Integration Results

RT: 5.14
Area: 42870824
Amount: 102.1462
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:23

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

TestAmerica Edison

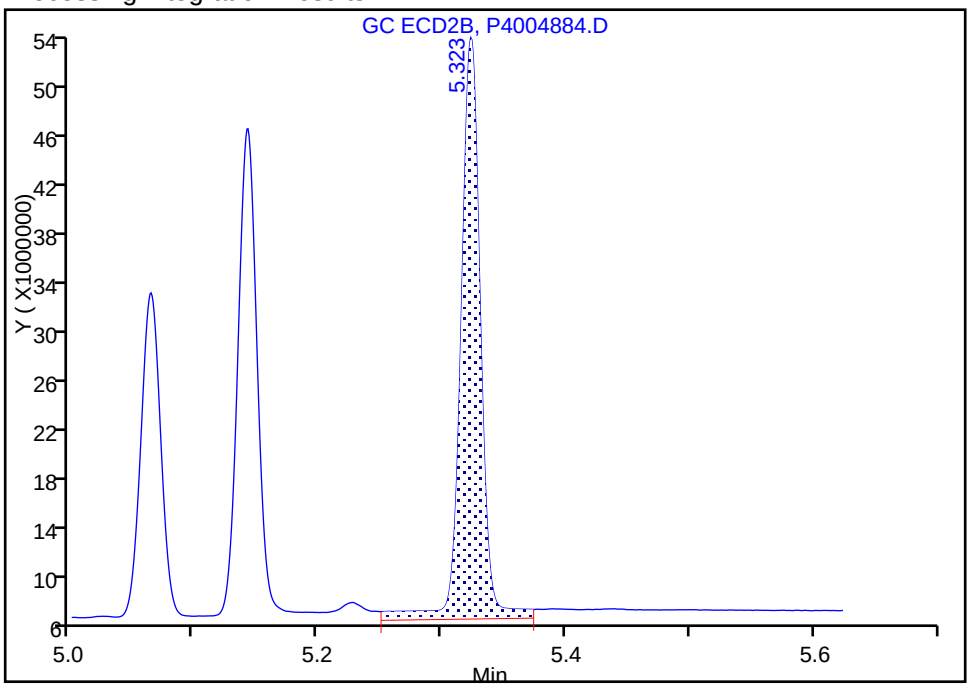
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004884.D				
Injection Date:	27-Sep-2017 08:46:34	Instrument ID:	CPESTGC4		
Lims ID:	STD PESTL3				
Client ID:					
Operator ID:		ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

13 Endrin ketone, CAS: 53494-70-5

Signal: 2

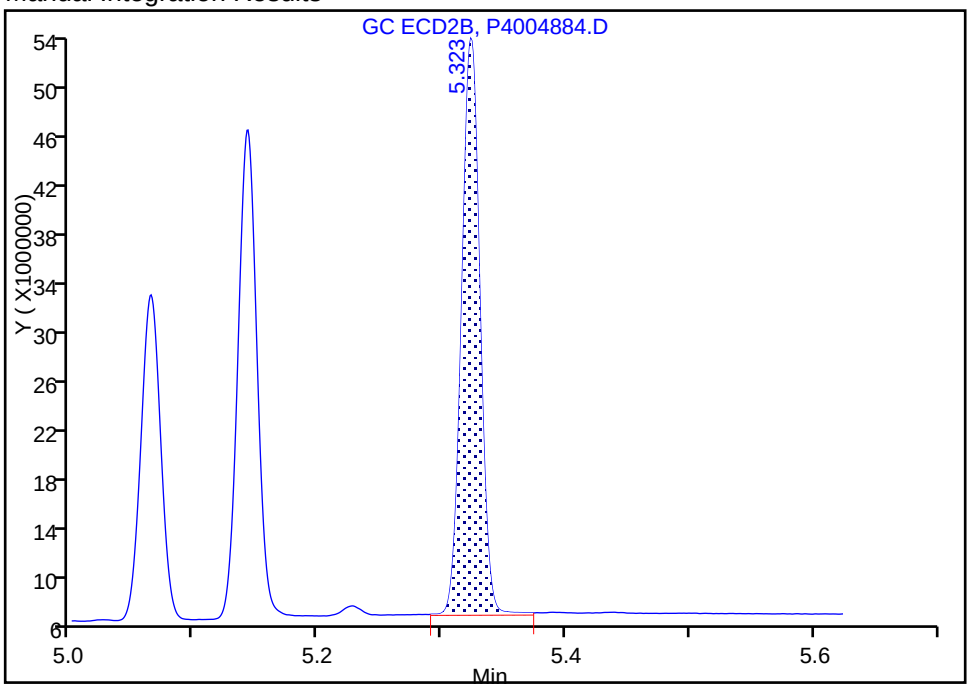
Processing Integration Results

RT: 5.32
Area: 52895567
Amount: 109.3021
Amount Units: ug/l



Manual Integration Results

RT: 5.32
Area: 48279033
Amount: 101.7030
Amount Units: ug/l



Reviewer: patelji, 27-Sep-2017 10:40:25

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D
Lims ID: STD PESTL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 08:58:46 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-006
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:24 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28287969	100.0	100.0	
2	1.513	1.514	-0.001	38420227	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.233	2.233	0.000	43436997	150.0	153.9	
2	1.886	1.887	-0.001	58125825	150.0	159.8	
						RPD = 3.78	
15 alpha-BHC							
1	2.653	2.654	-0.001	95133296	250.0	233.5	
2	2.209	2.210	-0.001	130672962	250.0	246.8	
						RPD = 5.52	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	88938478	250.0	235.1	
2	2.402	2.402	0.000	118246794	250.0	244.6	
						RPD = 3.93	
6 beta-BHC							
1	2.970	2.970	0.000	37933647	250.0	229.7	
2	2.449	2.449	0.000	49510009	250.0	236.3	
						RPD = 2.85	
32 delta-BHC							
1	3.220	3.220	0.000	89965643	250.0	233.2	
2	2.565	2.565	0.000	118490453	250.0	245.4	
						RPD = 5.10	
18 Heptachlor							
1	3.296	3.297	-0.001	86364255	250.0	230.3	
2	2.700	2.700	0.000	112872805	250.0	237.9	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.605	3.605	0.000	79920244	250.0	226.0	
2	2.907	2.907	0.000	102831108	250.0	234.2	
						RPD = 3.54	
12 Heptachlor epoxide							M
1	4.212	4.211	0.001	75424009	250.0	234.3	M
2	3.361	3.362	-0.001	96736728	250.0	233.6	
						RPD = 0.31	
9 gamma-Chlordane							M
1	4.420	4.420	0.000	73419330	250.0	228.0	M
2	3.464	3.464	0.000	96648764	250.0	234.8	
						RPD = 2.96	
23 alpha-Chlordane							M
1	4.581	4.580	0.001	69503361	250.0	228.2	M
2	3.580	3.580	0.000	92611458	250.0	231.5	
						RPD = 1.40	
7 Endosulfan I							M
1	4.651	4.651	0.000	67737216	250.0	229.6	M
2	3.712	3.712	0.000	90713790	250.0	232.3	
						RPD = 1.17	
25 4,4'-DDE							M
1	4.723	4.723	0.000	71287260	250.0	234.5	M
2	3.635	3.634	0.001	94576527	250.0	238.1	
						RPD = 1.55	
30 Dieldrin							M
1	4.888	4.887	0.001	75827707	250.0	234.9	M
2	3.946	3.946	0.000	102621982	250.0	237.9	
						RPD = 1.25	
20 Endrin							M
1	5.112	5.112	0.000	67577298	250.0	236.6	M
2	4.201	4.200	0.001	93769443	250.0	235.0	
						RPD = 0.70	
16 4,4'-DDD							M
1	5.166	5.166	0.000	60672774	250.0	238.4	M
2	4.256	4.256	0.000	82580735	250.0	238.4	
						RPD = 0.01	
11 Endosulfan II							M
1	5.254	5.254	0.000	65092408	250.0	236.5	M
2	4.440	4.439	0.001	88264400	250.0	234.2	
						RPD = 0.98	
21 4,4'-DDT							M
1	5.382	5.381	0.001	64186095	250.0	238.6	M
2	4.557	4.557	0.000	86571844	250.0	241.0	
						RPD = 0.98	
5 Endrin aldehyde							M
1	5.482	5.482	0.000	54582165	250.0	235.7	M
2	4.836	4.835	0.001	75170596	250.0	239.1	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.693	5.692	0.001	62190154	250.0	234.0	M
2	5.143	5.143	0.000	90883527	250.0	236.4	
						RPD = 1.02	
10 Methoxychlor							
1	5.928	5.928	0.000	34556840	250.0	235.4	
2	4.970	4.969	0.001	47082647	250.0	233.9	
						RPD = 0.63	
34 Mirex							M
1	6.134	6.133	0.001	46437684	250.0	247.0	M
2	5.065	5.065	0.000	67254686	250.0	243.6	
						RPD = 1.35	
13 Endrin ketone							M
1	6.170	6.169	0.001	70677969	250.0	236.1	M
2	5.324	5.323	0.001	102539557	250.0	235.8	
						RPD = 0.11	
$ 24 DCB Decachlorobiphenyl							
1	7.093	7.093	0.000	33167313	150.0	158.8	
2	6.117	6.117	0.000	54260076	150.0	155.9	
						RPD = 1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

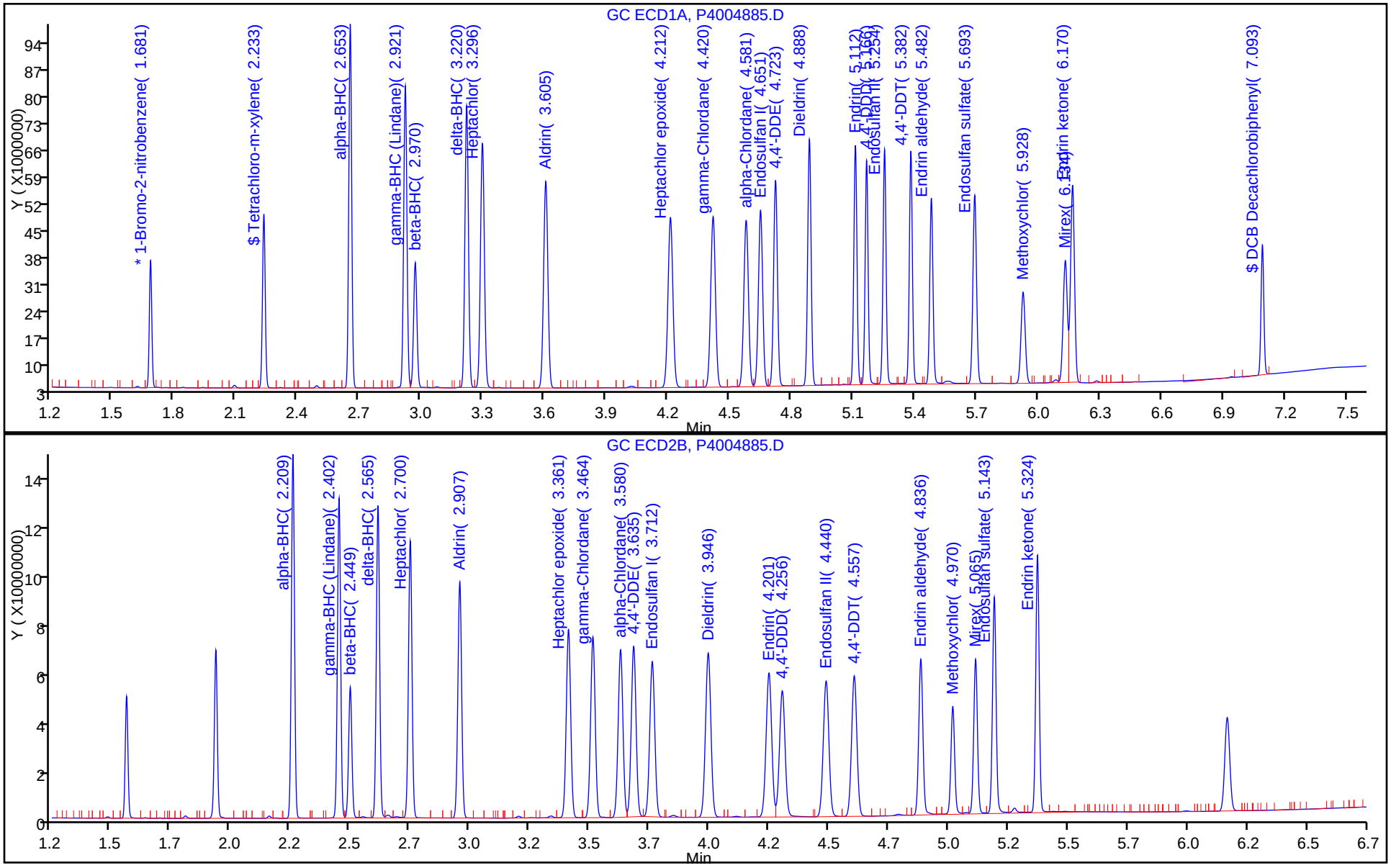
SGPESTL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004885.D

Injection Date:	27-Sep-2017 08:58:46	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D
Lims ID: STD PESTL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 09:10:59 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-007
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 09:56:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28810259	100.0	100.0	
2	1.513	1.514	-0.001	38564089	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.232	2.233	-0.001	58517789	200.0	203.5	
2	1.886	1.887	-0.001	78511207	200.0	215.0	
						RPD = 5.49	
15 alpha-BHC							
1	2.652	2.654	-0.002	196927550	500.0	474.7	
2	2.209	2.210	-0.001	267362879	500.0	503.1	
						RPD = 5.81	
2 gamma-BHC (Lindane)							
1	2.921	2.921	0.000	182445699	500.0	473.6	
2	2.402	2.402	0.000	241268187	500.0	497.2	
						RPD = 4.85	
6 beta-BHC							
1	2.969	2.970	-0.001	75403540	500.0	448.3	
2	2.449	2.449	0.000	98087924	500.0	466.4	
						RPD = 3.97	
32 delta-BHC							
1	3.220	3.220	0.000	185126474	500.0	471.2	
2	2.565	2.565	0.000	242975044	500.0	501.4	
						RPD = 6.21	
18 Heptachlor							
1	3.296	3.297	-0.001	177024434	500.0	463.4	
2	2.700	2.700	0.000	230230609	500.0	483.5	
						RPD = 4.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.604	3.605	-0.001	163104958	500.0	452.9	
2	2.906	2.907	-0.001	210299860	500.0	477.1	
						RPD = 5.21	
12 Heptachlor epoxide							
1	4.211	4.211	0.000	152479122	500.0	465.2	
2	3.361	3.362	-0.001	196270296	500.0	472.2	
						RPD = 1.51	
9 gamma-Chlordane							M
1	4.417	4.420	-0.003	150086696	500.0	457.6	M
2	3.463	3.464	-0.001	197305184	500.0	477.6	
						RPD = 4.28	
23 alpha-Chlordane							M
1	4.580	4.580	0.000	142847352	500.0	460.6	M
2	3.579	3.580	-0.001	189103626	500.0	470.8	
						RPD = 2.20	
7 Endosulfan I							M
1	4.649	4.651	-0.002	139163926	500.0	463.1	M
2	3.711	3.712	-0.001	185201648	500.0	472.5	
						RPD = 1.99	
25 4,4'-DDE							M
1	4.721	4.723	-0.002	147238748	500.0	475.5	M
2	3.633	3.634	-0.001	195418561	500.0	490.2	
						RPD = 3.04	
30 Dieldrin							
1	4.887	4.887	0.000	156273747	500.0	475.4	
2	3.945	3.946	-0.001	213186435	500.0	492.4	
						RPD = 3.50	
20 Endrin							M
1	5.111	5.112	-0.001	138200668	500.0	475.2	M
2	4.199	4.200	-0.001	195141671	500.0	487.2	
						RPD = 2.50	
16 4,4'-DDD							M
1	5.166	5.166	0.000	123895825	500.0	478.1	M
2	4.255	4.256	-0.001	172140925	500.0	495.1	
						RPD = 3.50	
11 Endosulfan II							M
1	5.253	5.254	-0.001	131298067	500.0	468.4	M
2	4.438	4.439	-0.001	182111007	500.0	481.4	
						RPD = 2.74	
21 4,4'-DDT							M
1	5.381	5.381	0.000	130809930	500.0	477.5	M
2	4.556	4.557	-0.001	181631574	500.0	503.7	
						RPD = 5.34	
5 Endrin aldehyde							M
1	5.481	5.482	-0.001	109066149	500.0	462.5	M
2	4.835	4.835	0.000	155267812	500.0	492.1	
						RPD = 6.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							
1	5.692	5.692	0.000	125420628	500.0	463.3	
2	5.142	5.143	-0.001	185597502	500.0	480.9	
						RPD = 3.73	
10 Methoxychlor							
1	5.928	5.928	0.000	69228051	500.0	463.1	
2	4.969	4.969	0.000	96191660	500.0	476.2	
						RPD = 2.79	
34 Mirex							M
1	6.134	6.133	0.001	92553381	500.0	483.3	M
2	5.064	5.065	-0.001	135265212	500.0	488.2	
						RPD = 1.01	
13 Endrin ketone							M
1	6.169	6.169	0.000	145234779	500.0	476.3	M
2	5.323	5.323	0.000	209954229	500.0	481.0	
						RPD = 0.99	
$ 24 DCB Decachlorobiphenyl							
1	7.094	7.093	0.001	44320427	200.0	208.4	
2	6.117	6.117	0.000	73442990	200.0	210.2	
						RPD = 0.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

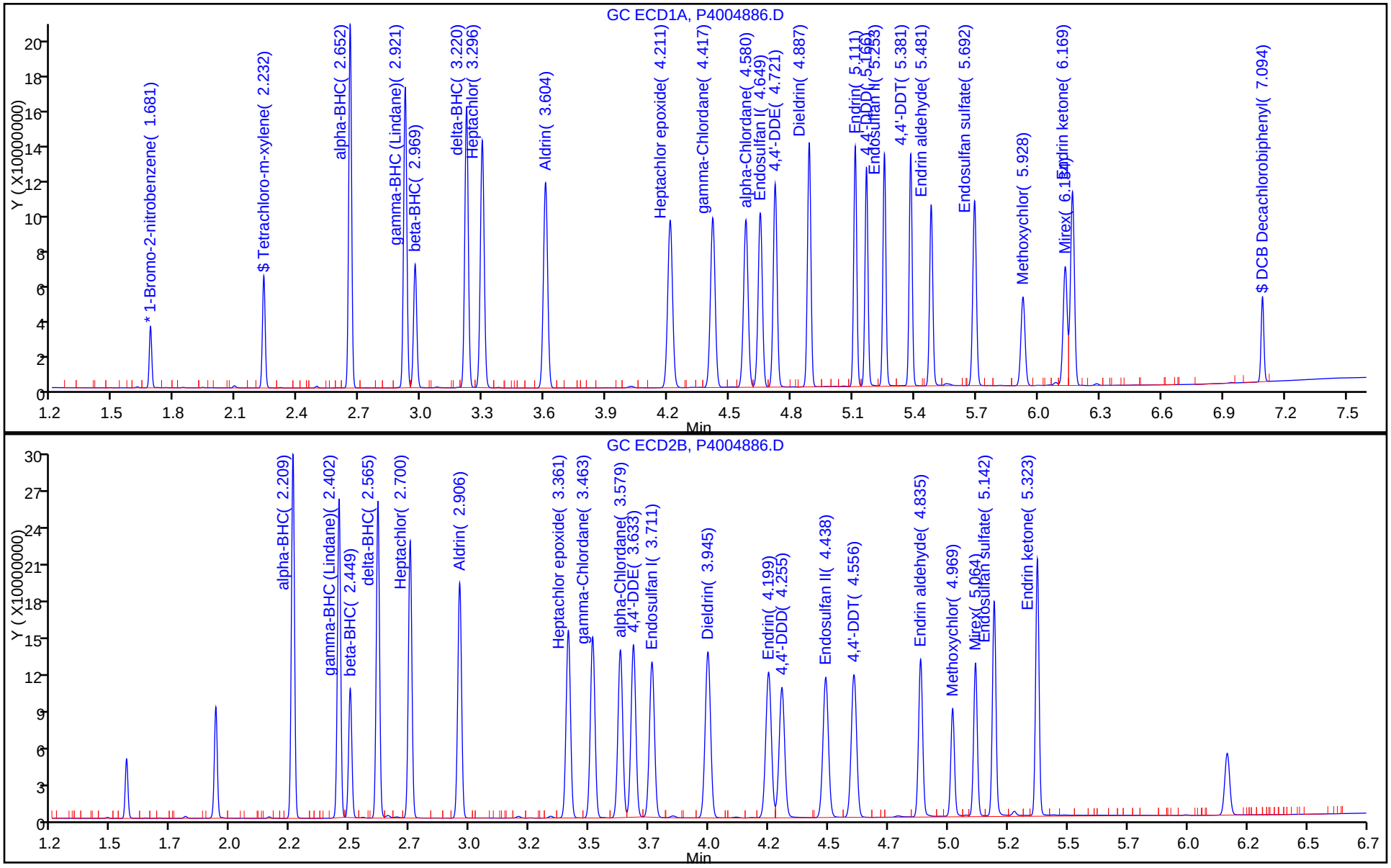
SGPESTL5_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004886.D

Injection Date:	27-Sep-2017 09:10:59	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	STD PESTL5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64219

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0336	0.0303	0.0319	0.0342	0.0346	Ave		0.0329				5.5		20.0			
Chlordane (technical) Peak 2	0.0372	0.0322	0.0347	0.0353	0.0345	Ave		0.0348				5.2		20.0			
Chlordane (technical) Peak 3	0.1034	0.1003	0.1002	0.1117	0.1108	Ave		0.1053				5.3		20.0			
Chlordane (technical) Peak 4	0.1121	0.1139	0.1131	0.1264	0.1249	Ave		0.1181				5.9		20.0			
Chlordane (technical) Peak 5	0.0853	0.0785	0.0778	0.0869	0.0856	Ave		0.0828				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64219

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	552793	4773927	10183804	14957926	25300336	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	613249	5079960	11059593	15466508	25197565	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	1703088	15814015	31964687	48923562	80909063	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	1845488	17952665	36077918	55335075	91240877	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	1405221	12374858	24836816	38072751	62495338	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 10:11:34 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-010
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:44 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:24:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.683	1.679	0.004	32928545	100.0	100.0	
2	1.511	1.512	-0.001	42246375	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.174	3.167	0.007	552793	50.0	51.0	M
1	3.738	3.730	0.008	613249	50.0	53.5	
1	4.427	4.417	0.010	1703088	50.0	49.1	a
1	4.525	4.513	0.012	1845488	50.0	47.5	
1	4.589	4.577	0.012	1405221	50.0	51.5	a
		Average of Peak Amounts =				50.5	
2	2.647	2.647	0.000	790606	50.0	59.4	M
2	2.996	2.996	0.000	876798	50.0	56.0	M
2	3.304	3.305	-0.001	696601	50.0	63.9	M
2	3.461	3.462	-0.001	2672054	50.0	51.6	M
2	3.559	3.560	-0.001	4448525	50.0	50.3	M
		Average of Peak Amounts =				56.2	
						RPD = 10.66	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

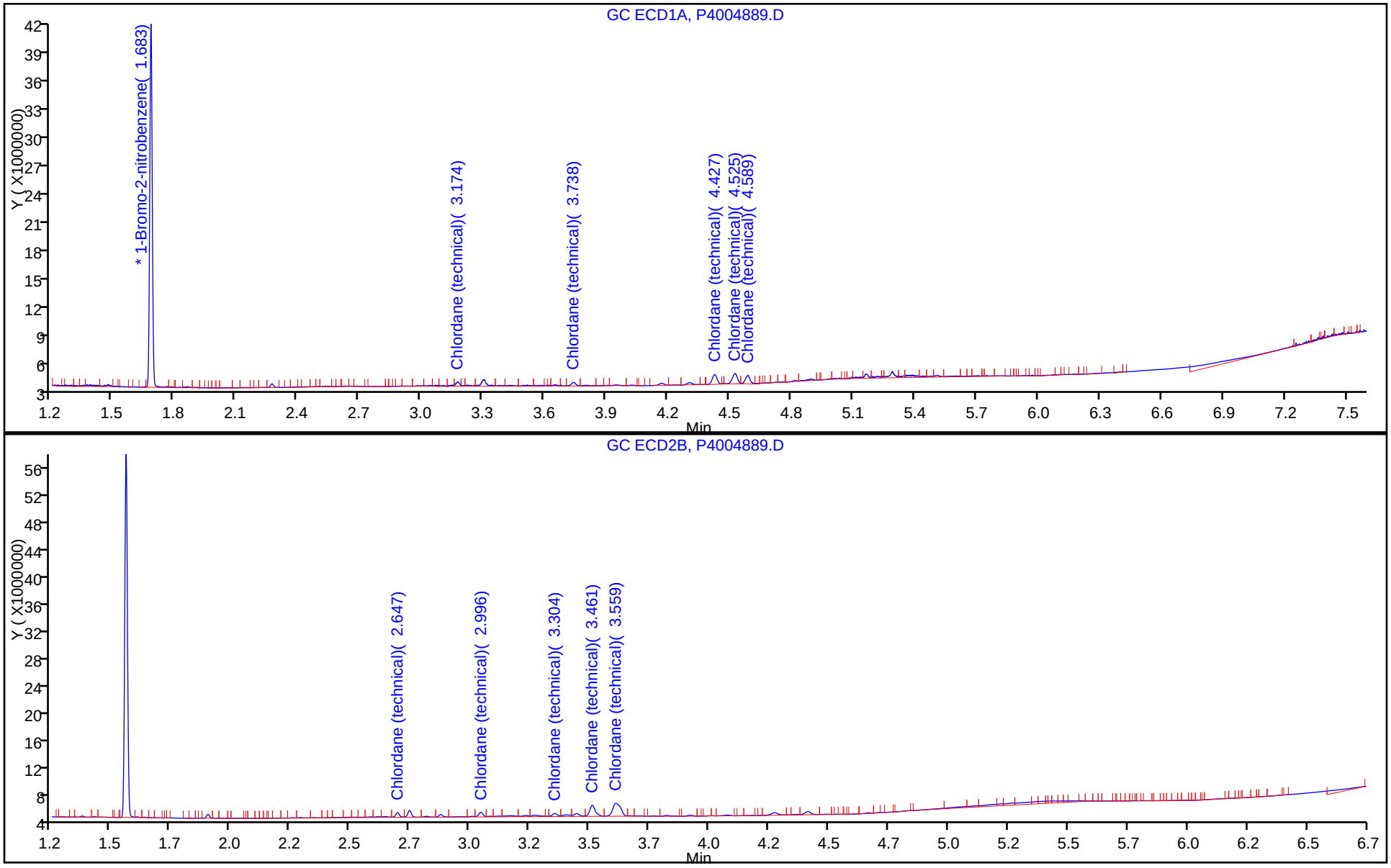
SGCHL608LVIL1_00010	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



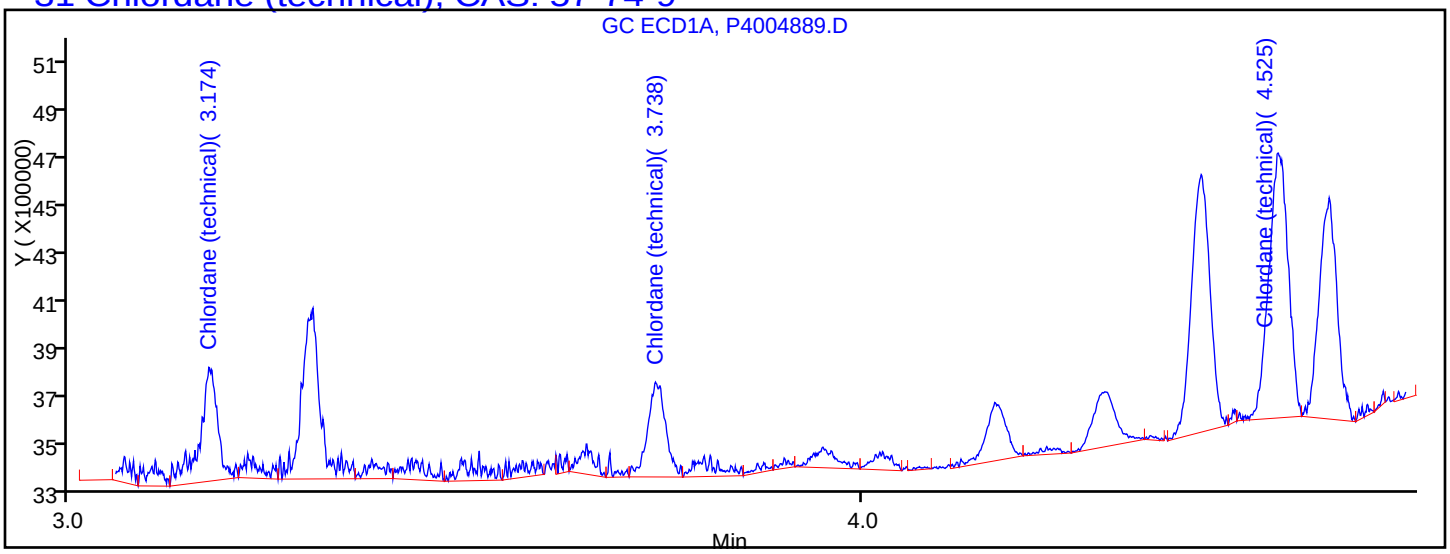
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

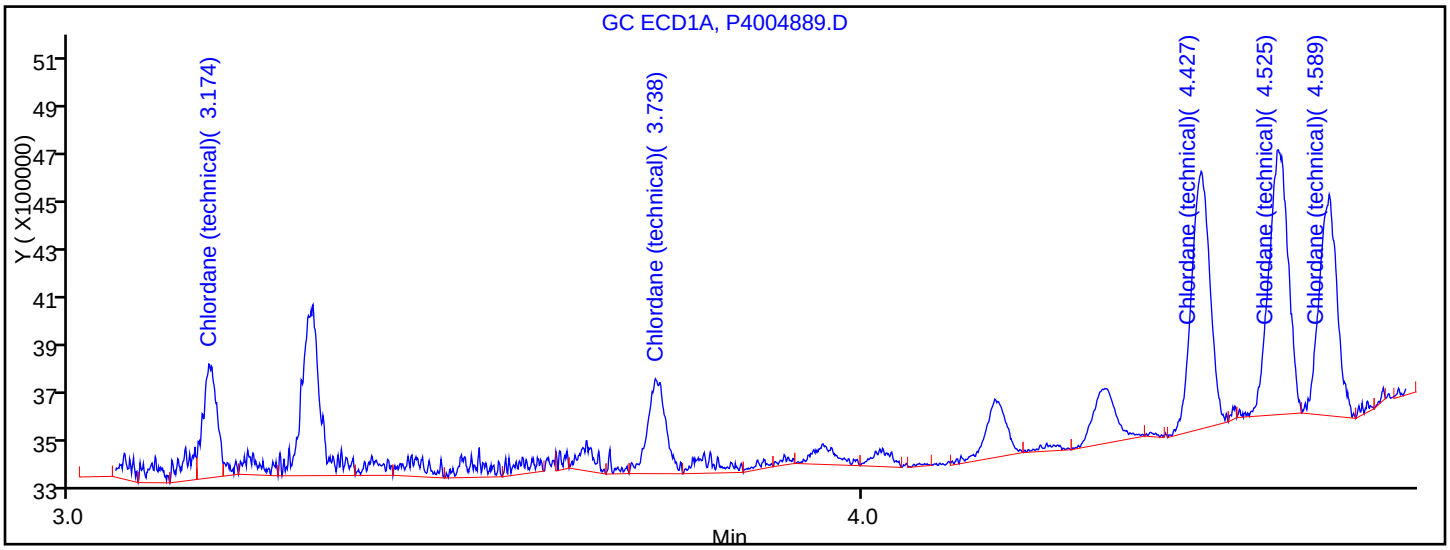
Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4		
Lims ID:	IC CHLOL1				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

3.174	Response = 746591
3.738	Response = 613249
4.417	Response = 0
4.525	Response = 1845488
4.577	Response = 0



Manual Integration Results

3.174	Response = 552793	M
3.738	Response = 613249	
4.427	Response = 1703088	M
4.525	Response = 1845488	
4.589	Response = 1405221	M

Reviewer: kapoors, 27-Sep-2017 11:26:13

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 10:23:57 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-011
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:48 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	31535813	100.0	100.0	
2	1.513	1.512	0.001	40798744	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.169	3.167	0.002	4773927	500.0	460.0	
1	3.732	3.730	0.002	5079960	500.0	463.1	
1	4.419	4.417	0.002	15814015	500.0	476.3	
1	4.518	4.513	0.005	17952665	500.0	482.2	
1	4.579	4.577	0.002	12374858	500.0	473.7	
		Average of Peak Amounts =				471.1	
2	2.647	2.647	0.000	5984731	500.0	465.4	
2	2.996	2.996	0.000	7541823	500.0	498.8	
2	3.304	3.305	-0.001	4939270	500.0	469.3	
2	3.462	3.462	0.000	24045192	500.0	480.5	
2	3.560	3.560	0.000	41495368	500.0	485.5	
		Average of Peak Amounts =				479.9	
						RPD = 1.86	

Reagents:

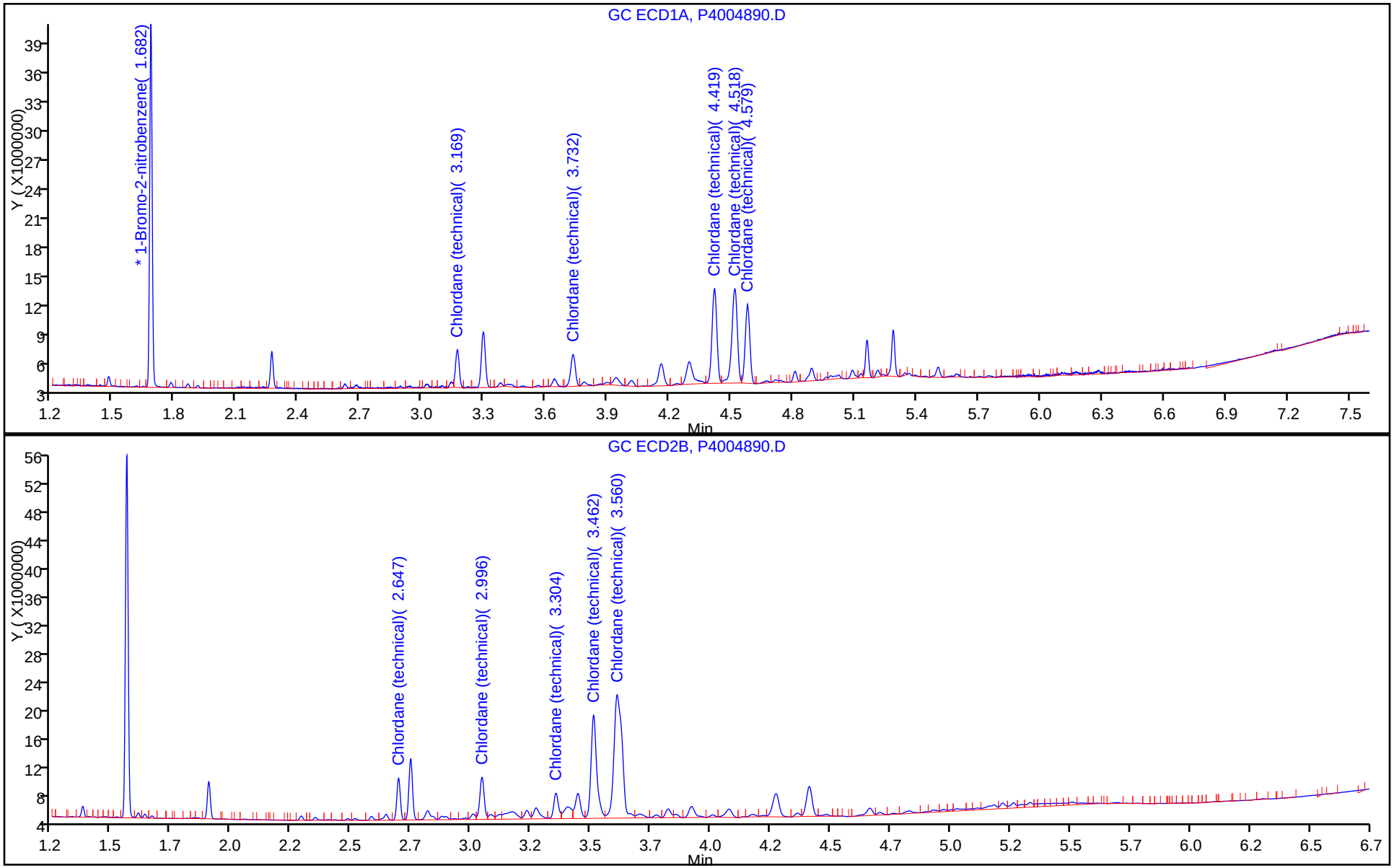
SGCHOL2_00013	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D

Injection Date:	27-Sep-2017 10:23:57	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 10:36:18 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-012
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:51 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:21:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31905364	100.0	100.0	
2	1.513	1.513	0.000	42522794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.170	3.170	0.000	10183804	1000.0	969.8	
1	3.729	3.729	0.000	11059593	1000.0	996.4	
1	4.416	4.416	0.000	31964687	1000.0	951.6	
1	4.516	4.516	0.000	36077918	1000.0	957.8	
1	4.577	4.577	0.000	24836816	1000.0	939.8	
		Average of Peak Amounts =				963.1	
2	2.648	2.648	0.000	12184846	1000.0	909.2	
2	2.996	2.996	0.000	14010087	1000.0	888.9	
2	3.305	3.305	0.000	8992530	1000.0	819.8	
2	3.461	3.461	0.000	47345330	1000.0	907.7	
2	3.561	3.561	0.000	81407514	1000.0	913.9	
		Average of Peak Amounts =				887.9	
						RPD = 8.13	

Reagents:

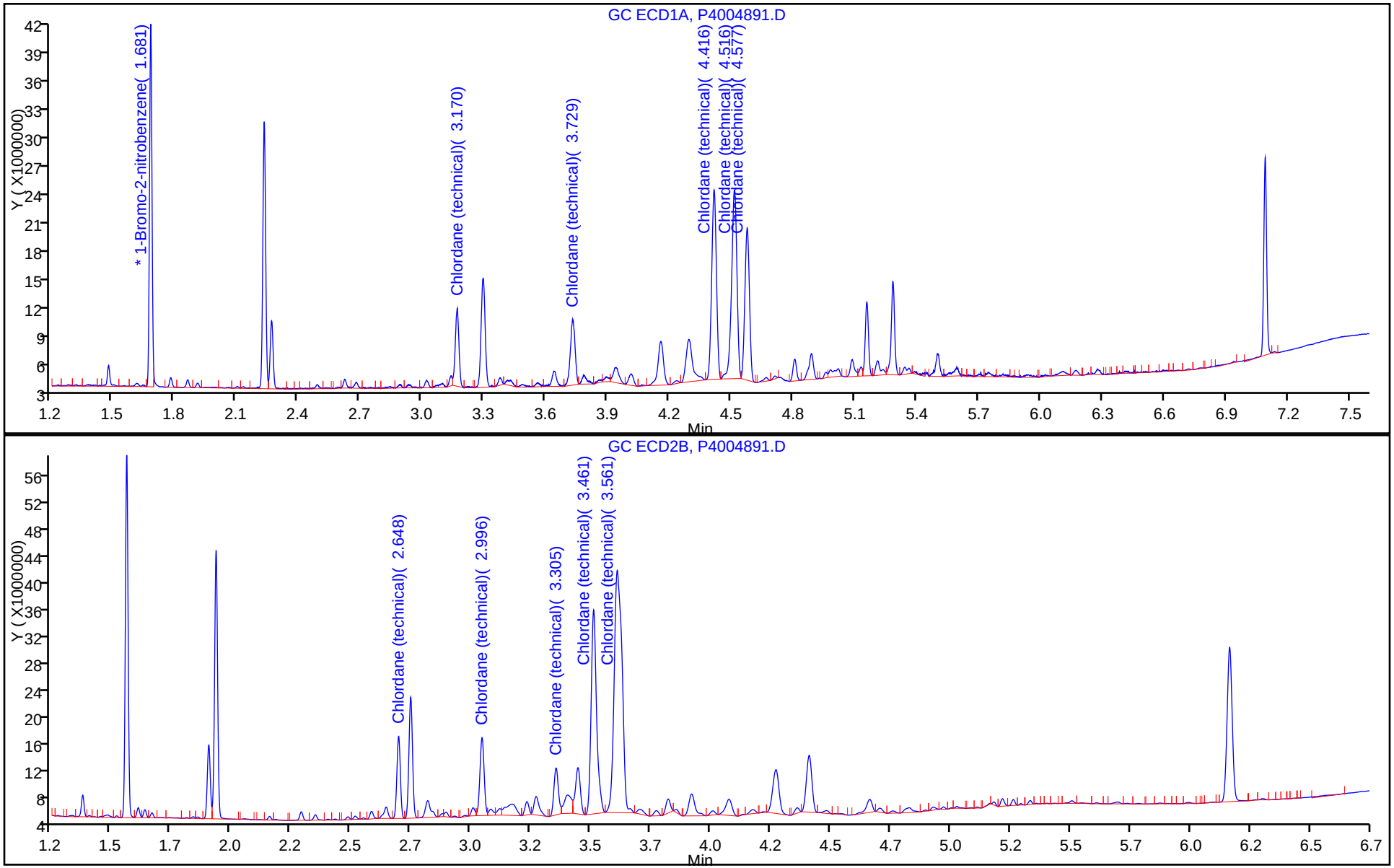
SGCHOL3_00024 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 27-Sep-2017 13:43:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D

Injection Date:	27-Sep-2017 10:36:18	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 10:47:51 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-013
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:54 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.680	1.681	-0.001	29195914	100.0	100.0	
2	1.515	1.513	0.002	38631964	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.166	3.170	-0.004	14957926	1500.0	1556.7	
1	3.728	3.729	-0.001	15466508	1500.0	1522.8	
1	4.414	4.416	-0.002	48923562	1500.0	1591.7	
1	4.512	4.516	-0.004	55335075	1500.0	1605.4	
1	4.575	4.577	-0.002	38072751	1500.0	1574.3	
		Average of Peak Amounts =				1570.2	
2	2.649	2.648	0.001	18203584	1500.0	1495.1	
2	2.997	2.996	0.001	21913937	1500.0	1530.5	
2	3.306	3.305	0.001	15194554	1500.0	1524.7	
2	3.463	3.461	0.002	75525910	1500.0	1593.8	
2	3.561	3.561	0.000	128353791	1500.0	1586.1	
		Average of Peak Amounts =				1546.0	
						RPD = 1.55	

Reagents:

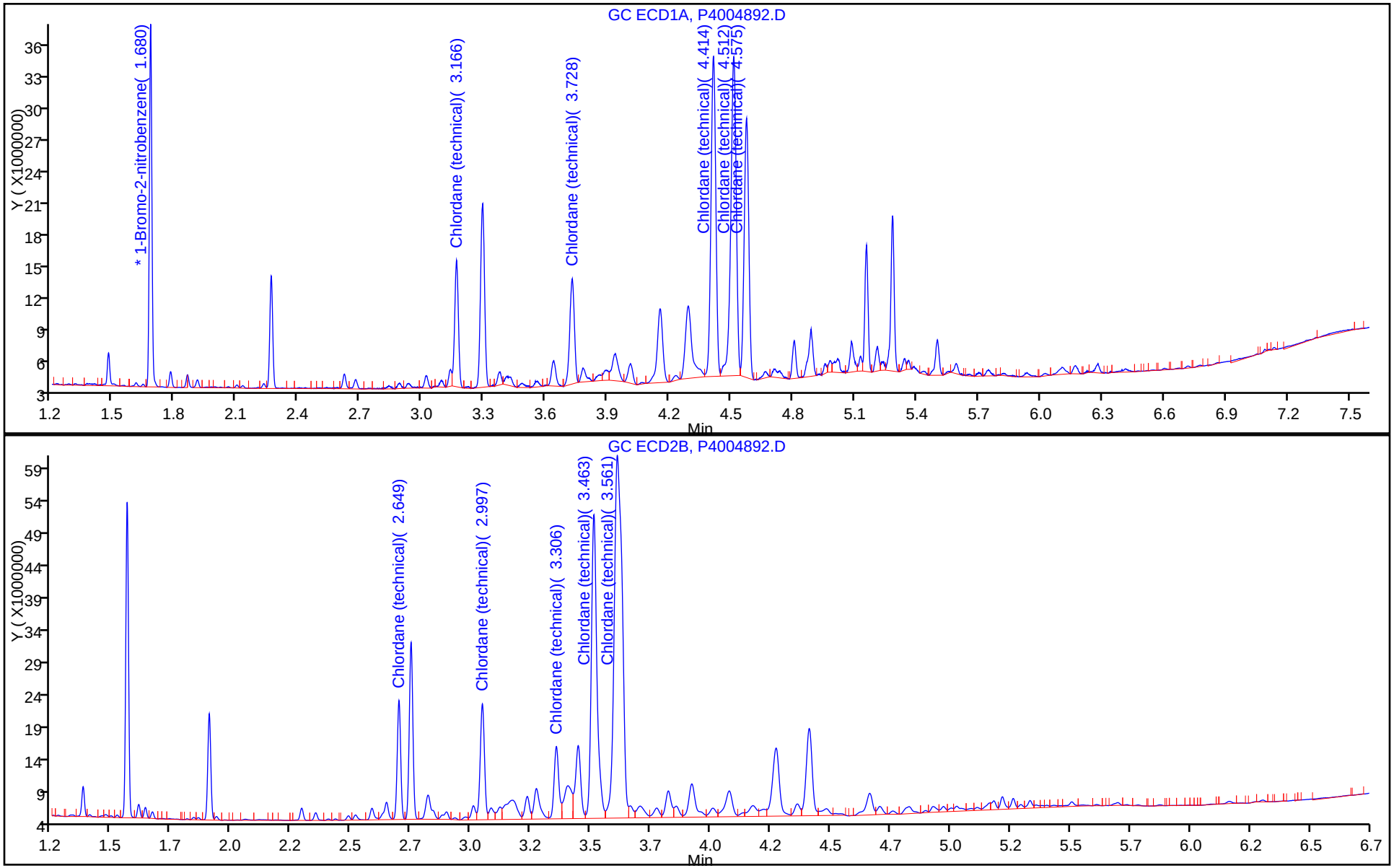
SGCHOL4_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D

Injection Date:	27-Sep-2017 10:47:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 10:59:22 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-014
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:56 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:27:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29219749	100.0	100.0	
2	1.514	1.513	0.001	39334782	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.166	3.170	-0.004	25300336	2500.0	2630.8	M
1	3.727	3.729	-0.002	25197565	2500.0	2478.9	
1	4.413	4.416	-0.003	80909063	2500.0	2630.2	
1	4.512	4.516	-0.004	91240877	2500.0	2645.0	
1	4.574	4.577	-0.003	62495338	2500.0	2582.1	
		Average of Peak Amounts =				2593.4	
2	2.649	2.648	0.001	30239368	2500.0	2439.2	
2	2.998	2.996	0.002	35473864	2500.0	2433.2	
2	3.307	3.305	0.002	24016207	2500.0	2366.8	
2	3.463	3.461	0.002	125169196	2500.0	2594.2	
2	3.561	3.561	0.000	216782599	2500.0	2630.9	
		Average of Peak Amounts =				2492.9	
						RPD = 3.95	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

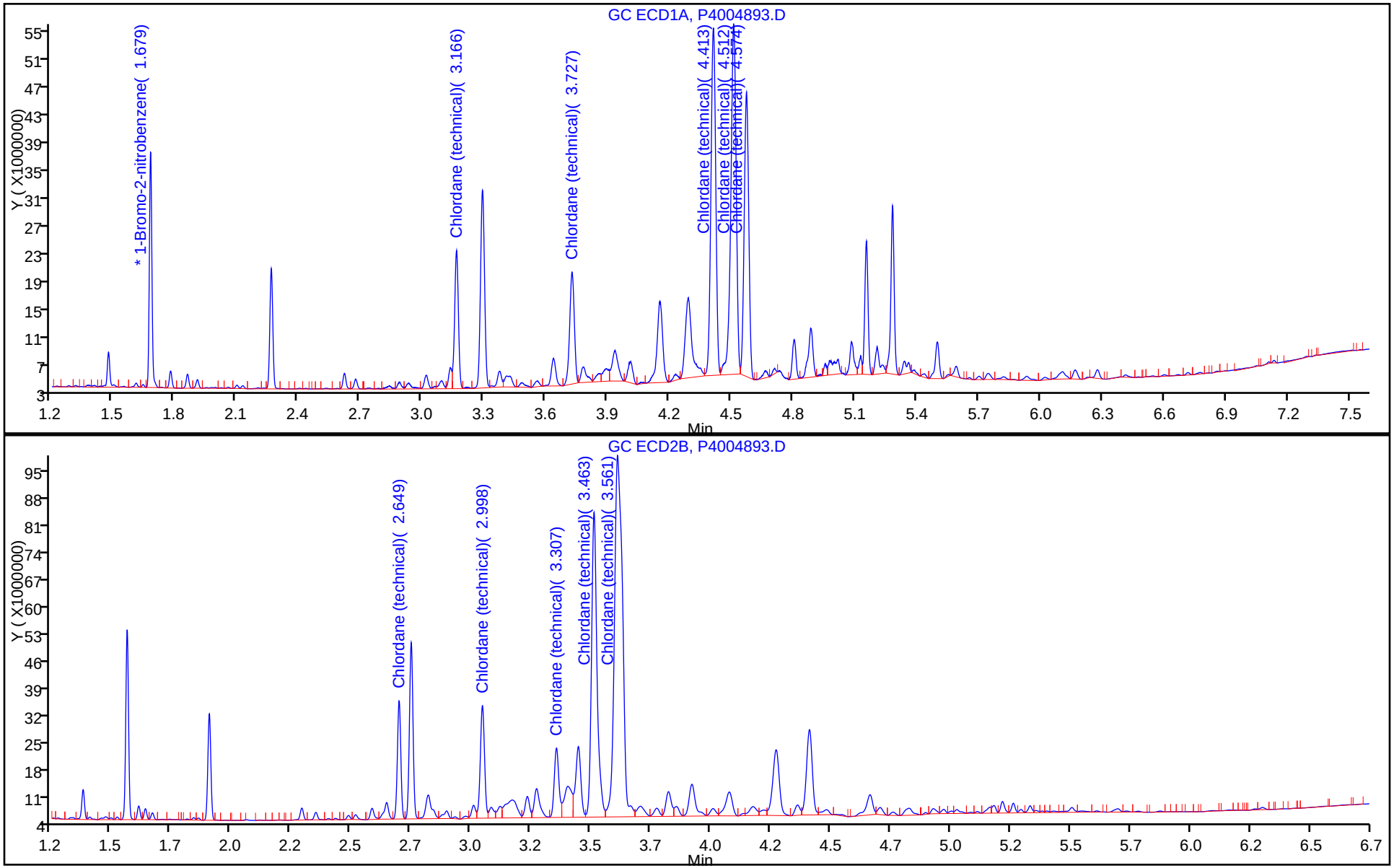
SGCHOL5_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



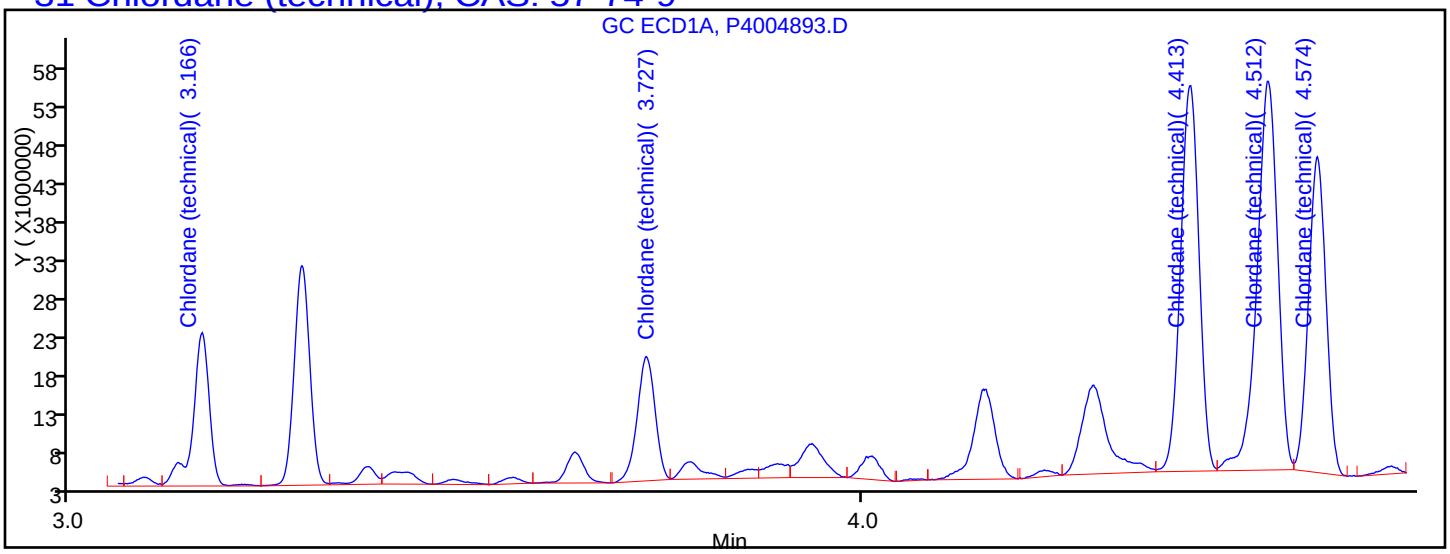
Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

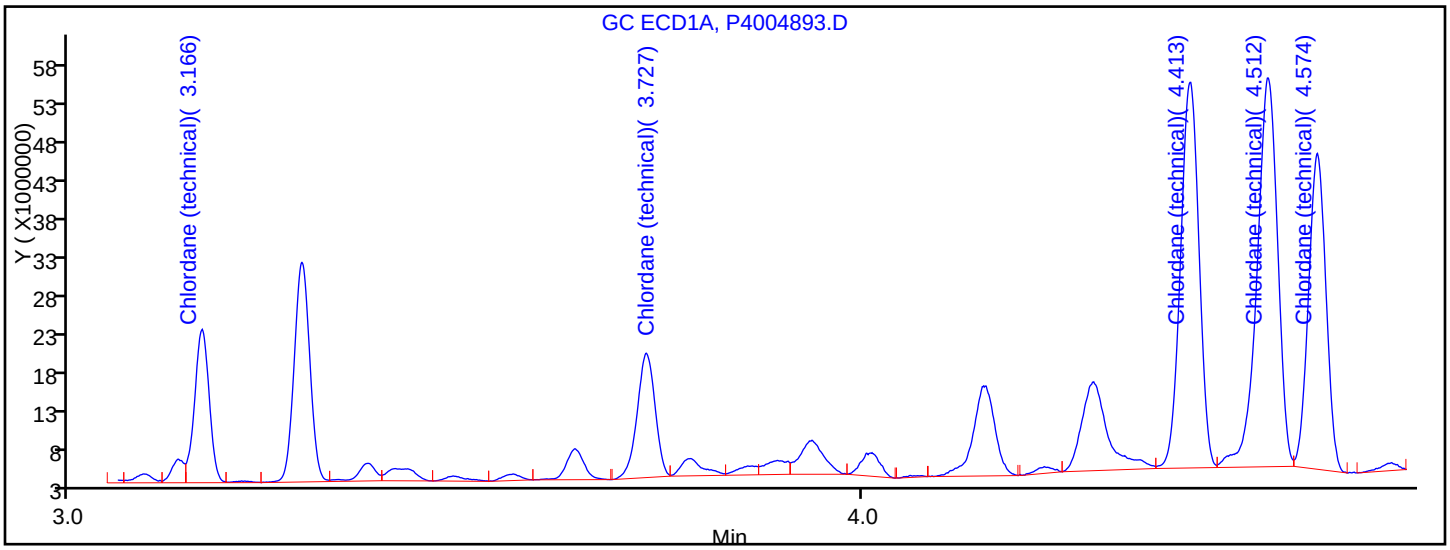
Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4
Lims ID:	IC CHLOL5		
Client ID:			
Operator ID:		ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

3.166	Response = 28951667
3.727	Response = 25197565
4.413	Response = 80909063
4.512	Response = 91240877
4.574	Response = 62495338



Manual Integration Results

3.166	Response = 25300336	M
3.727	Response = 25197565	
4.413	Response = 80909063	
4.512	Response = 91240877	
4.574	Response = 62495338	

Reviewer: kapoors, 27-Sep-2017 11:27:09

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlordane (technical) Peak 1	0.0374	0.0293	0.0287	0.0314	0.0308	Ave		0.0315				11.0		20.0			
Chlordane (technical) Peak 2	0.0415	0.0370	0.0329	0.0378	0.0361	Ave		0.0371				8.3		20.0			
Chlordane (technical) Peak 3	0.0330	0.0242	0.0211	0.0262	0.0244	Ave		0.0258				17.1		20.0			
Chlordane (technical) Peak 4	0.1265	0.1179	0.1113	0.1303	0.1273	Ave		0.1227				6.4		20.0			
Chlordane (technical) Peak 5	0.2106	0.2034	0.1914	0.2215	0.2204	Ave		0.2095				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 10:11 Calibration End Date: 09/27/2017 10:59 Calibration ID: 64220

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/10	P4004889.D
Level 2	IC 460-465107/11	P4004890.D
Level 3	IC 460-465107/12	P4004891.D
Level 4	IC 460-465107/13	P4004892.D
Level 5	IC 460-465107/14	P4004893.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	BNB	Ave	790606	5984731	12184846	18203584	30239368	50.0	500	1000	1500	2500
Chlordane (technical) Peak 2	BNB	Ave	876798	7541823	14010087	21913937	35473864	50.0	500	1000	1500	2500
Chlordane (technical) Peak 3	BNB	Ave	696601	4939270	8992530	15194554	24016207	50.0	500	1000	1500	2500
Chlordane (technical) Peak 4	BNB	Ave	2672054	24045192	47345330	75525910	125169196	50.0	500	1000	1500	2500
Chlordane (technical) Peak 5	BNB	Ave	4448525	41495368	81407514	128353791	216782599	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D
Lims ID: IC CHLOL1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 10:11:34 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-010
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:44 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:24:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.683	1.679	0.004	32928545	100.0	100.0	
2	1.511	1.512	-0.001	42246375	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.174	3.167	0.007	552793	50.0	51.0	M
1	3.738	3.730	0.008	613249	50.0	53.5	
1	4.427	4.417	0.010	1703088	50.0	49.1	a
1	4.525	4.513	0.012	1845488	50.0	47.5	
1	4.589	4.577	0.012	1405221	50.0	51.5	a
		Average of Peak Amounts =				50.5	
2	2.647	2.647	0.000	790606	50.0	59.4	M
2	2.996	2.996	0.000	876798	50.0	56.0	M
2	3.304	3.305	-0.001	696601	50.0	63.9	M
2	3.461	3.462	-0.001	2672054	50.0	51.6	M
2	3.559	3.560	-0.001	4448525	50.0	50.3	M
		Average of Peak Amounts =				56.2	
						RPD = 10.66	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

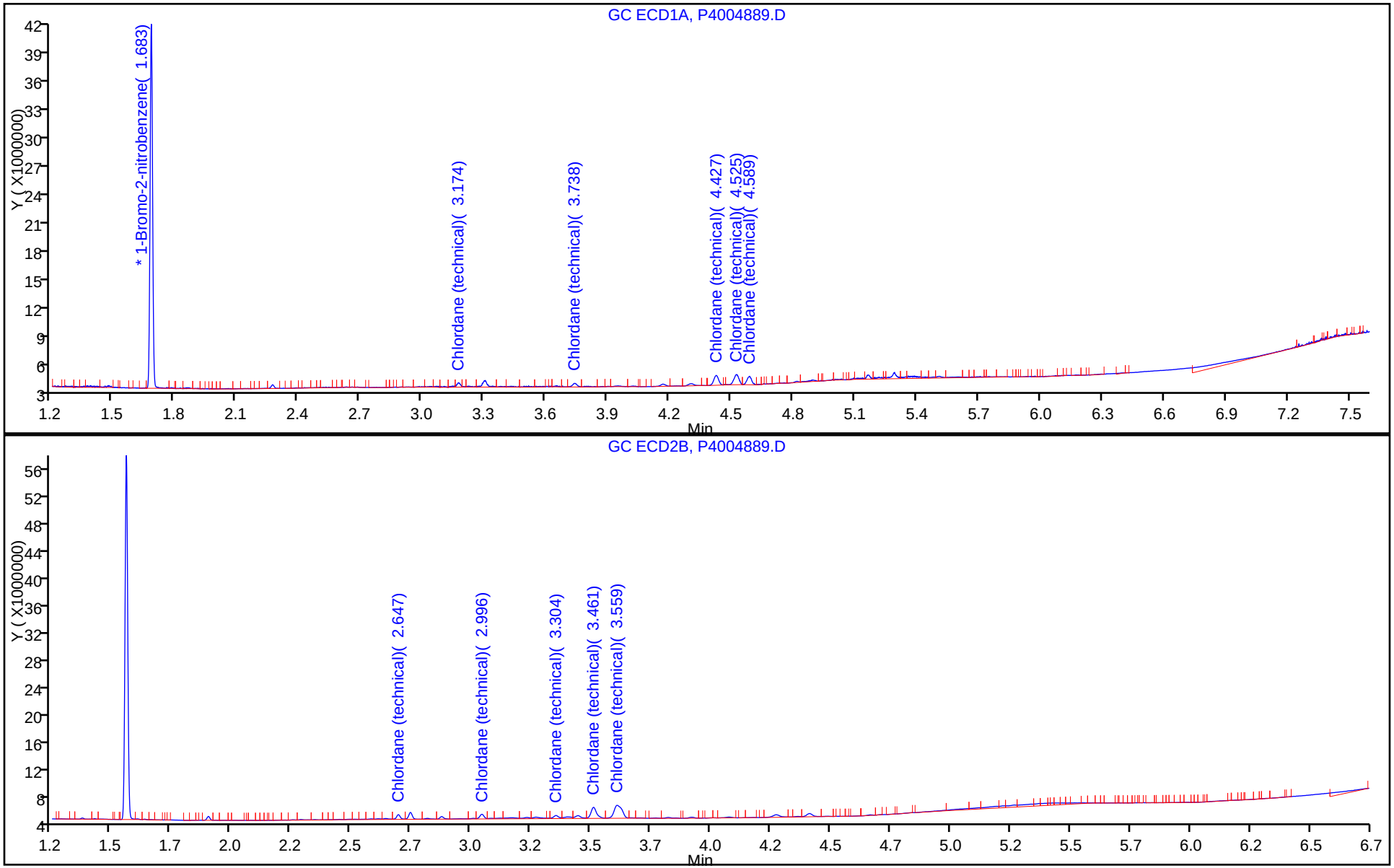
SGCHL608LVIL1_00010 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



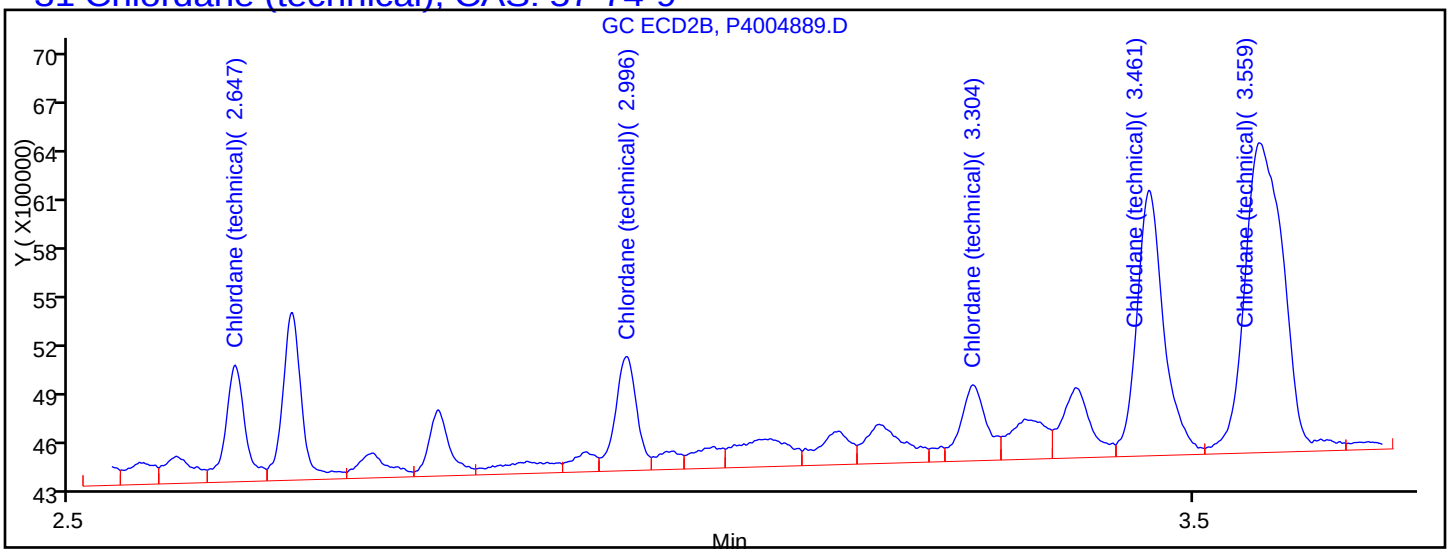
Report Date: 27-Sep-2017 13:43:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004889.D

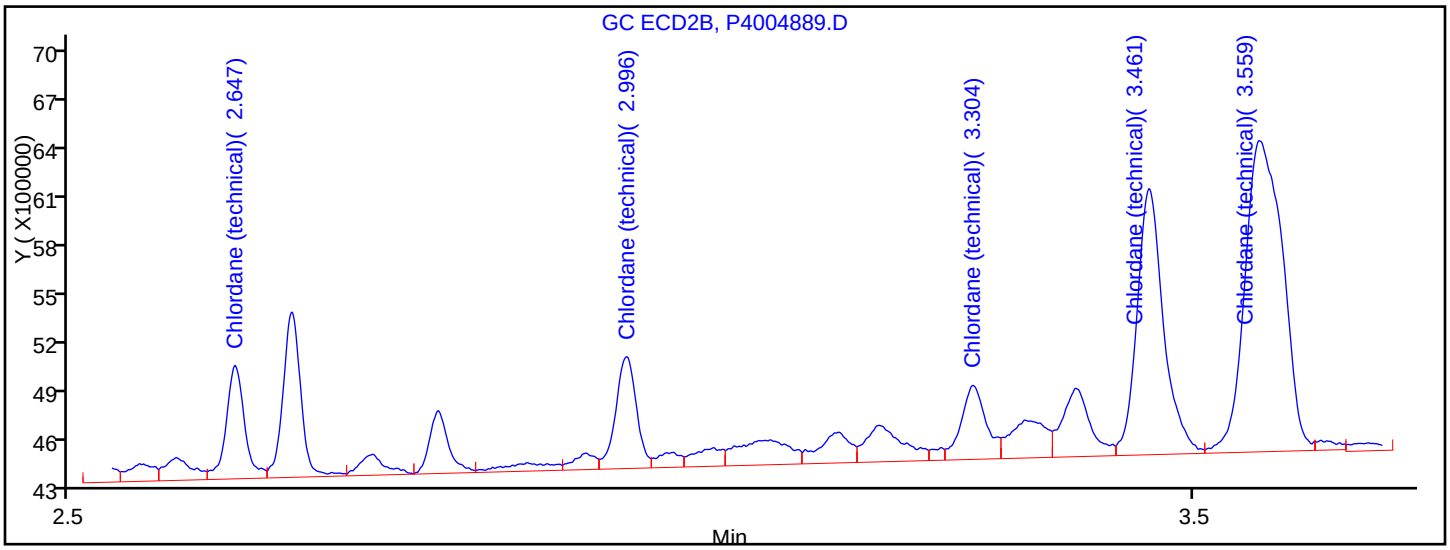
Injection Date:	27-Sep-2017 10:11:34	Instrument ID:	CPESTGC4		
Lims ID:	IC CHLOL1				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

31 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

2.647	Response = 879288
2.996	Response = 938550
3.304	Response = 747552
3.461	Response = 2739742
3.559	Response = 4619230



Manual Integration Results

2.647	Response = 790606	M
2.996	Response = 876798	M
3.304	Response = 696601	M
3.461	Response = 2672054	M
3.559	Response = 4448525	M

Reviewer: kapoors, 27-Sep-2017 11:28:27

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D
Lims ID: IC CHLOL2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 10:23:57 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-011
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:48 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.679	0.003	31535813	100.0	100.0	
2	1.513	1.512	0.001	40798744	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.169	3.167	0.002	4773927	500.0	460.0	
1	3.732	3.730	0.002	5079960	500.0	463.1	
1	4.419	4.417	0.002	15814015	500.0	476.3	
1	4.518	4.513	0.005	17952665	500.0	482.2	
1	4.579	4.577	0.002	12374858	500.0	473.7	
		Average of Peak Amounts =				471.1	
2	2.647	2.647	0.000	5984731	500.0	465.4	
2	2.996	2.996	0.000	7541823	500.0	498.8	
2	3.304	3.305	-0.001	4939270	500.0	469.3	
2	3.462	3.462	0.000	24045192	500.0	480.5	
2	3.560	3.560	0.000	41495368	500.0	485.5	
		Average of Peak Amounts =				479.9	
						RPD = 1.86	

Reagents:

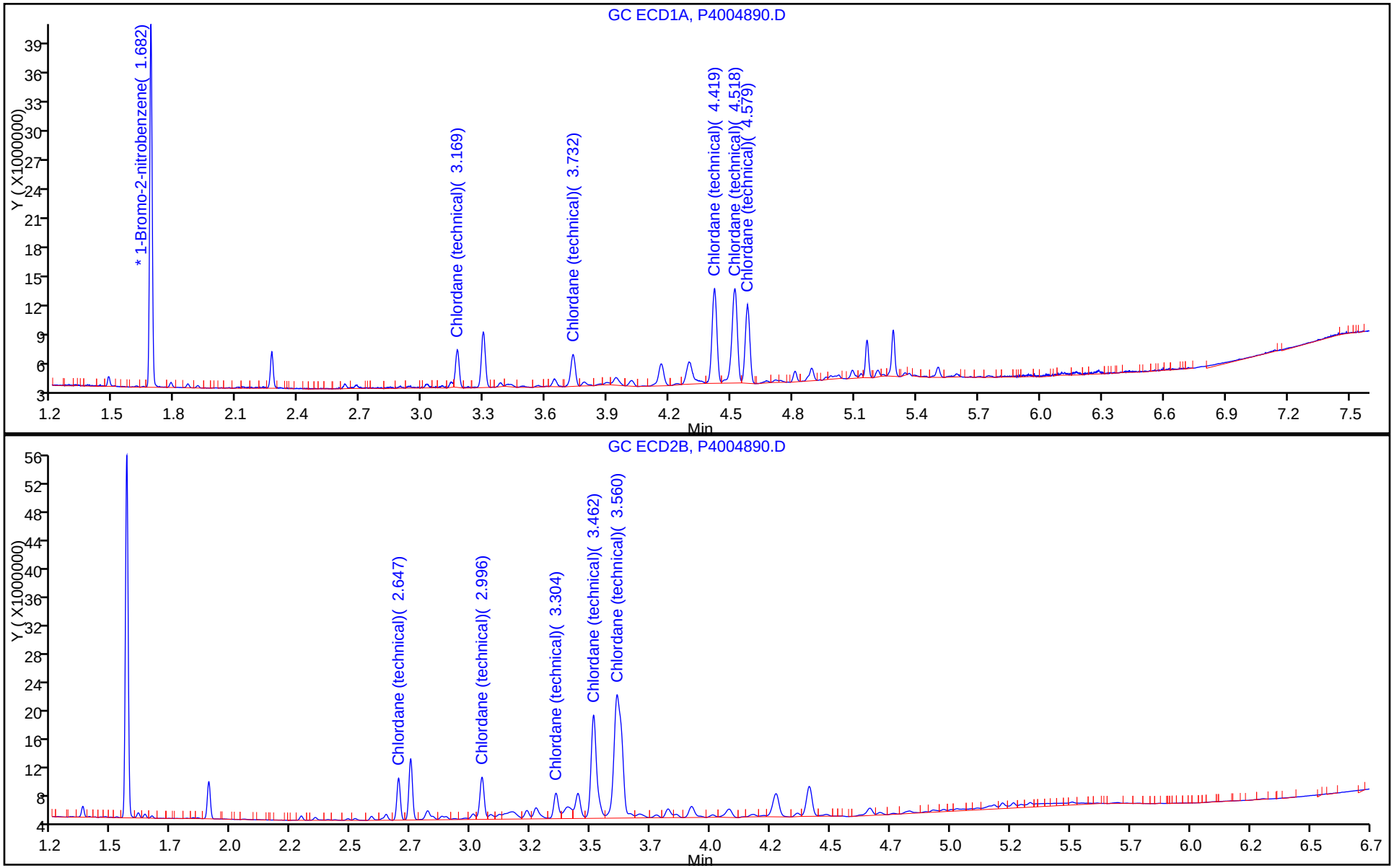
SGCHOL2_00013	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004890.D

Injection Date:	27-Sep-2017 10:23:57	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D
Lims ID: IC CHLOL3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 10:36:18 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-012
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:51 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:21:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31905364	100.0	100.0	
2	1.513	1.513	0.000	42522794	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.170	3.170	0.000	10183804	1000.0	969.8	
1	3.729	3.729	0.000	11059593	1000.0	996.4	
1	4.416	4.416	0.000	31964687	1000.0	951.6	
1	4.516	4.516	0.000	36077918	1000.0	957.8	
1	4.577	4.577	0.000	24836816	1000.0	939.8	
		Average of Peak Amounts =				963.1	
2	2.648	2.648	0.000	12184846	1000.0	909.2	
2	2.996	2.996	0.000	14010087	1000.0	888.9	
2	3.305	3.305	0.000	8992530	1000.0	819.8	
2	3.461	3.461	0.000	47345330	1000.0	907.7	
2	3.561	3.561	0.000	81407514	1000.0	913.9	
		Average of Peak Amounts =				887.9	
						RPD = 8.13	

Reagents:

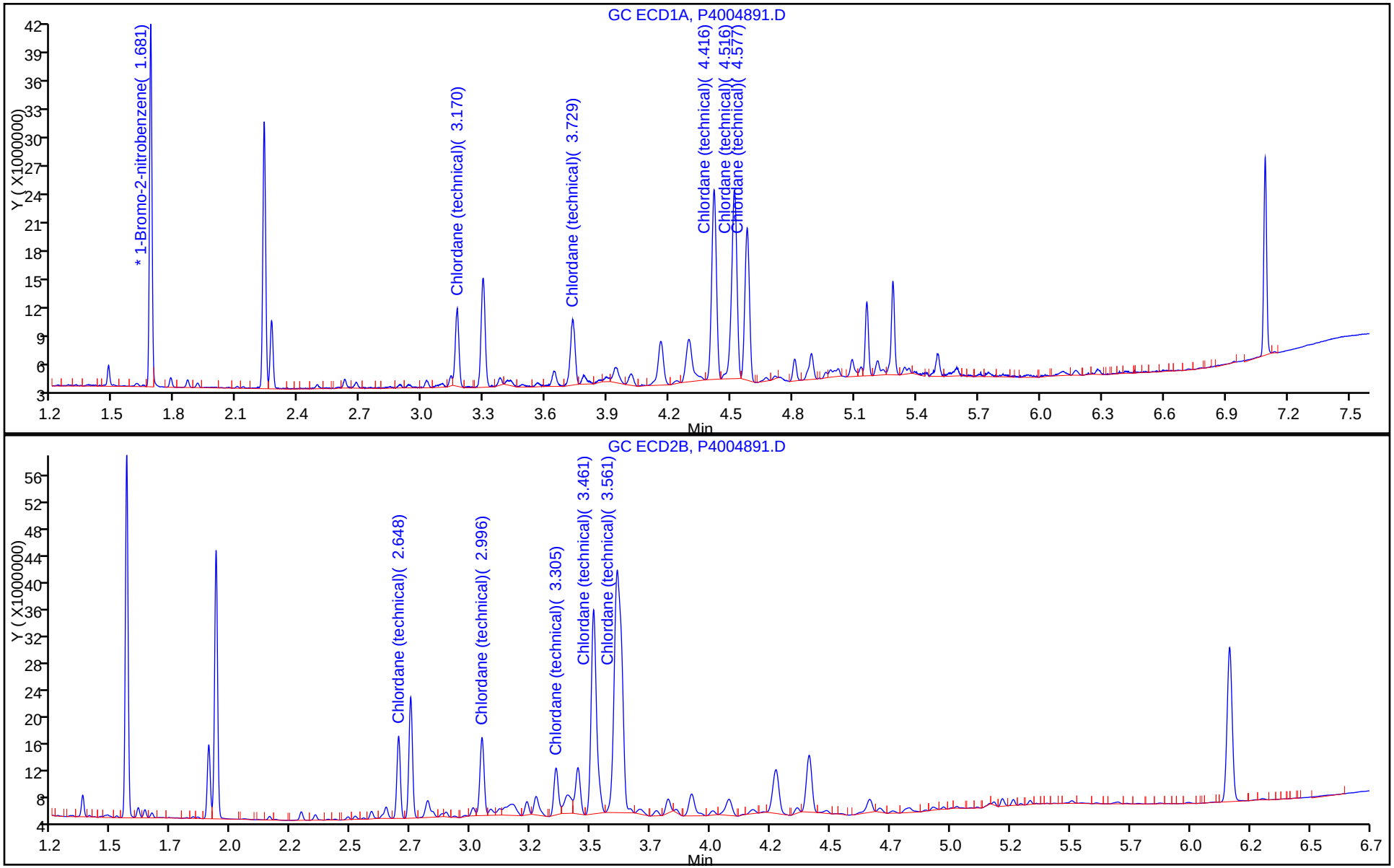
SGCHOL3_00024 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 27-Sep-2017 13:43:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004891.D

Injection Date:	27-Sep-2017 10:36:18	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D
Lims ID: IC CHLOL4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 10:47:51 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-013
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:54 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.680	1.681	-0.001	29195914	100.0	100.0	
2	1.515	1.513	0.002	38631964	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							
1	3.166	3.170	-0.004	14957926	1500.0	1556.7	
1	3.728	3.729	-0.001	15466508	1500.0	1522.8	
1	4.414	4.416	-0.002	48923562	1500.0	1591.7	
1	4.512	4.516	-0.004	55335075	1500.0	1605.4	
1	4.575	4.577	-0.002	38072751	1500.0	1574.3	
		Average of Peak Amounts =				1570.2	
2	2.649	2.648	0.001	18203584	1500.0	1495.1	
2	2.997	2.996	0.001	21913937	1500.0	1530.5	
2	3.306	3.305	0.001	15194554	1500.0	1524.7	
2	3.463	3.461	0.002	75525910	1500.0	1593.8	
2	3.561	3.561	0.000	128353791	1500.0	1586.1	
		Average of Peak Amounts =				1546.0	
						RPD = 1.55	

Reagents:

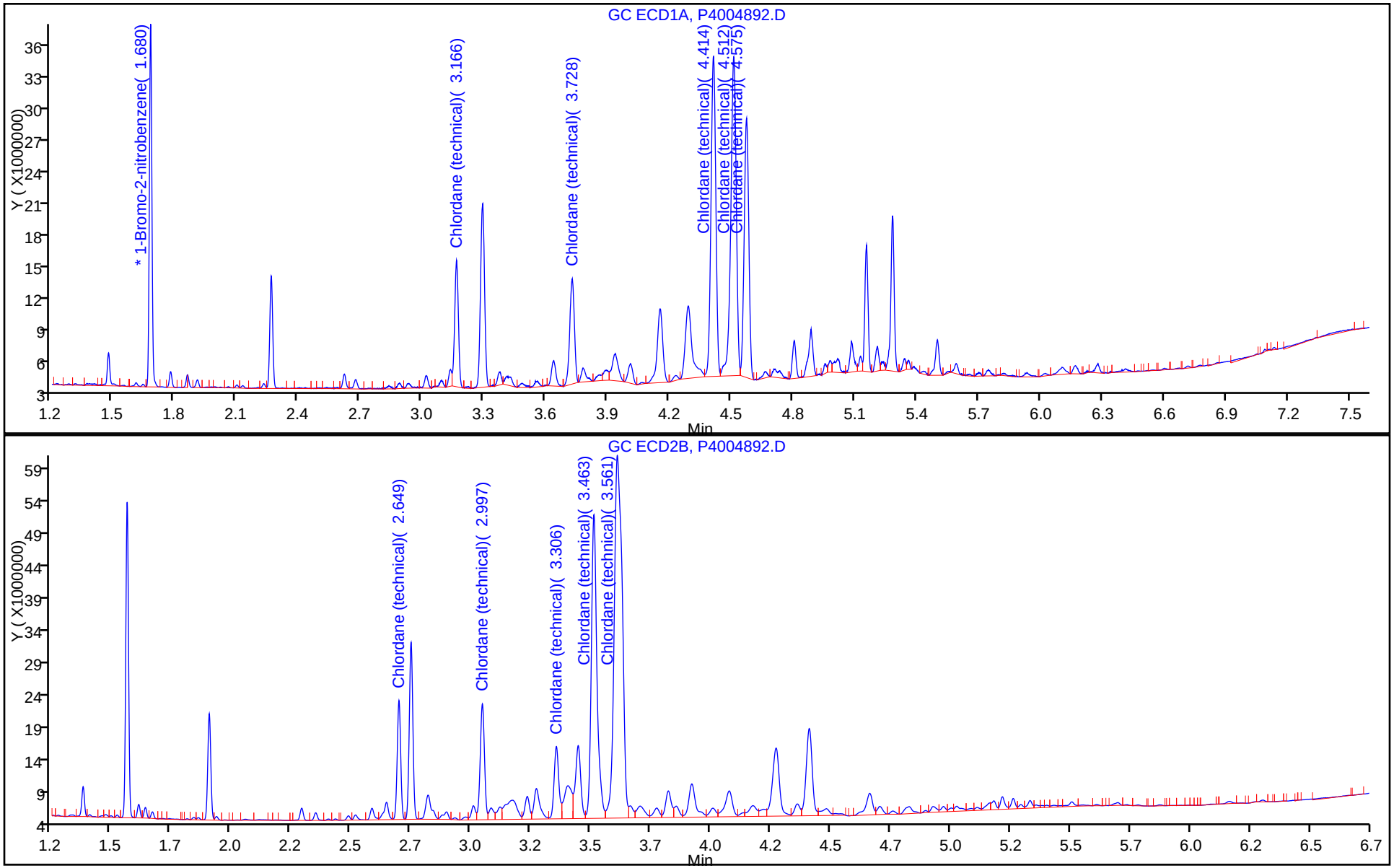
SGCHOL4_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004892.D

Injection Date:	27-Sep-2017 10:47:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D
Lims ID: IC CHLOL5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 10:59:22 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-014
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub9

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:43:56 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 11:27:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29219749	100.0	100.0	
2	1.514	1.513	0.001	39334782	100.0	100.0	
						RPD = 0.00	
31 Chlordane (technical)							M
1	3.166	3.170	-0.004	25300336	2500.0	2630.8	M
1	3.727	3.729	-0.002	25197565	2500.0	2478.9	
1	4.413	4.416	-0.003	80909063	2500.0	2630.2	
1	4.512	4.516	-0.004	91240877	2500.0	2645.0	
1	4.574	4.577	-0.003	62495338	2500.0	2582.1	
		Average of Peak Amounts =				2593.4	
2	2.649	2.648	0.001	30239368	2500.0	2439.2	
2	2.998	2.996	0.002	35473864	2500.0	2433.2	
2	3.307	3.305	0.002	24016207	2500.0	2366.8	
2	3.463	3.461	0.002	125169196	2500.0	2594.2	
2	3.561	3.561	0.000	216782599	2500.0	2630.9	
		Average of Peak Amounts =				2492.9	
						RPD = 3.95	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

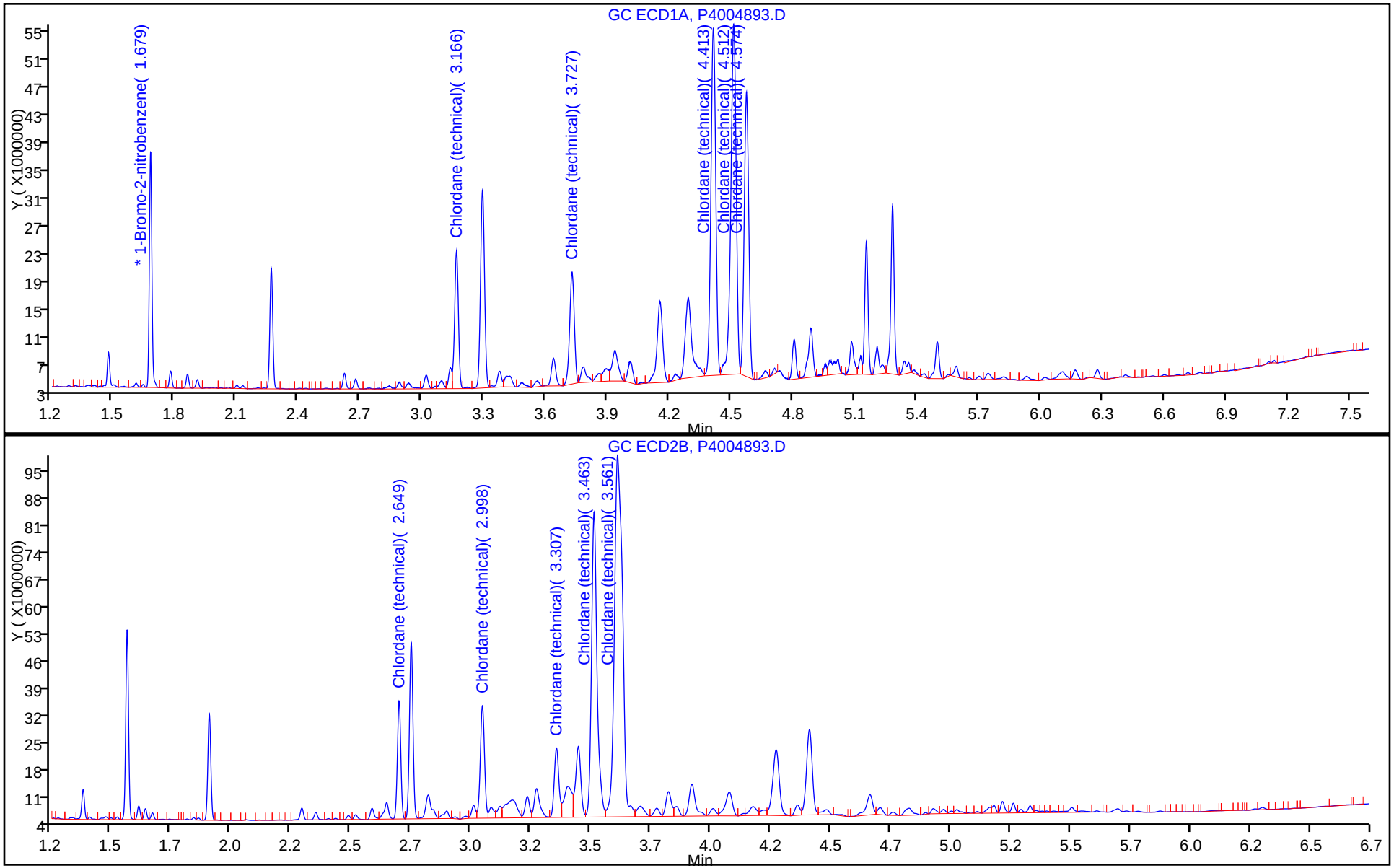
SGCHOL5_00011	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004893.D

Injection Date:	27-Sep-2017 10:59:22	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC CHLOL5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64225

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0180	0.0239	0.0217	0.0225	0.0213	Ave		0.0215				10.3		20.0			
Toxaphene Peak 2	0.0296	0.0394	0.0300	0.0315	0.0293	Ave		0.0320				13.3		20.0			
Toxaphene Peak 3	0.0531	0.0777	0.0603	0.0650	0.0599	Ave		0.0632				14.5		20.0			
Toxaphene Peak 4	0.0311	0.0442	0.0383	0.0405	0.0363	Ave		0.0381				12.8		20.0			
Toxaphene Peak 5	0.0243	0.0347	0.0312	0.0354	0.0331	Ave		0.0317				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64225

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	281620	3667366	6787919	9719704	15522275	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	464415	6039262	9379996	13601842	21327742	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	832967	11908262	18824836	28066404	43633700	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	488208	6770393	11968988	17469713	26400627	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	380508	5311371	9746148	15294665	24063742	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D
Lims ID: IC TOX L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 11:11:38 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-015
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:00 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:10:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.681	0.001	31368203	100.0	100.0	
2	1.515	1.513	0.002	40978483	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.868	4.862	0.006	281620	50.0	41.8	M
1	5.243	5.242	0.001	464415	50.0	46.3	M
1	5.309	5.307	0.002	832967	50.0	42.0	M
1	5.482	5.482	0.000	488208	50.0	40.9	M
1	5.899	5.897	0.002	380508	50.0	38.2	M
		Average of Peak Amounts =				41.8	
2	4.113	4.108	0.005	348508	50.0	36.0	
2	4.762	4.758	0.004	443786	50.0	39.0	M
2	4.935	4.929	0.006	518131	50.0	43.1	M
2	5.010	5.007	0.003	1019543	50.0	58.5	M
2	5.074	5.072	0.002	813581	50.0	50.7	M
		Average of Peak Amounts =				45.5	
						RPD = 8.29	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

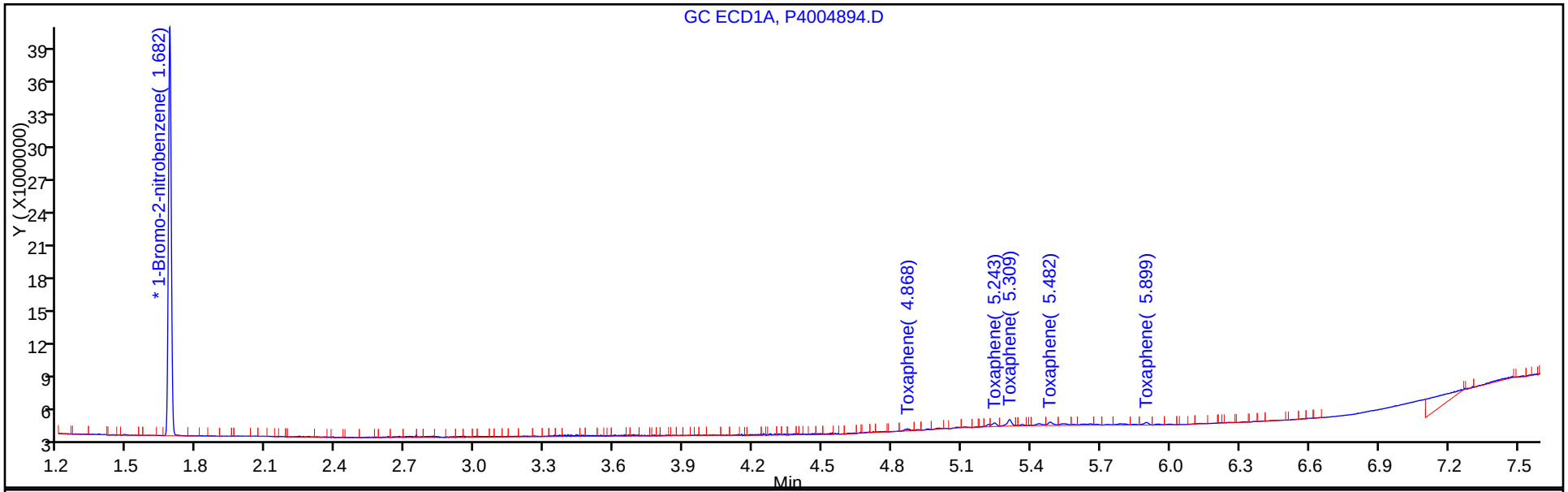
SGTOX608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

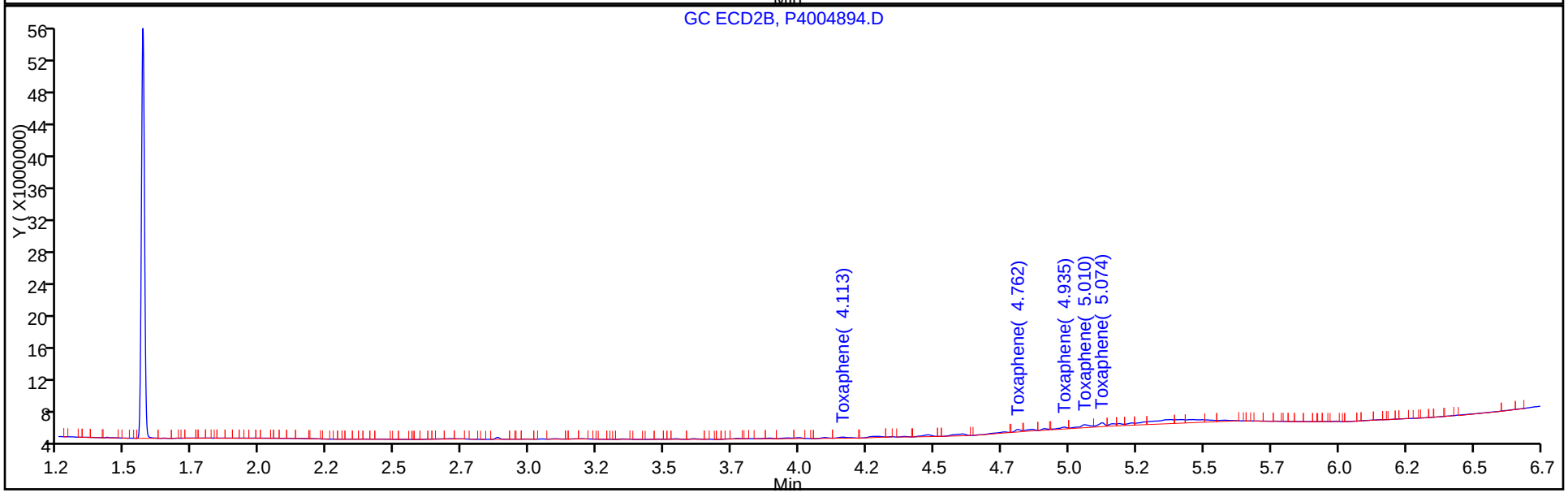
Report Date: 27-Sep-2017 13:44:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L1			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





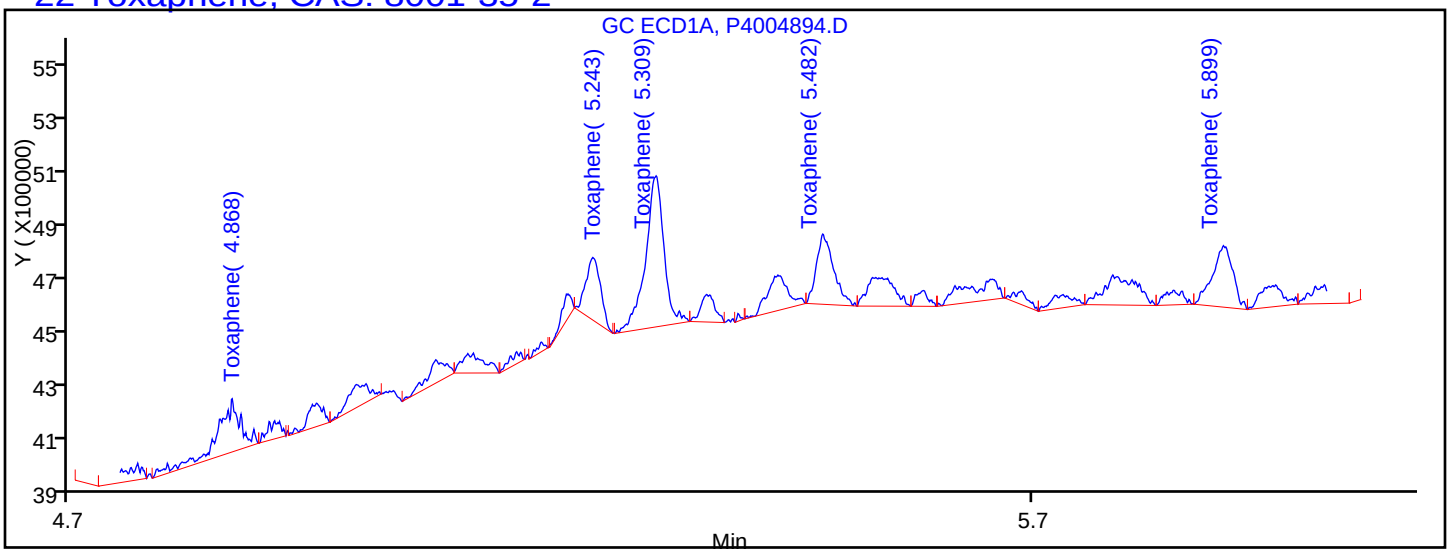
Report Date: 27-Sep-2017 13:44:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

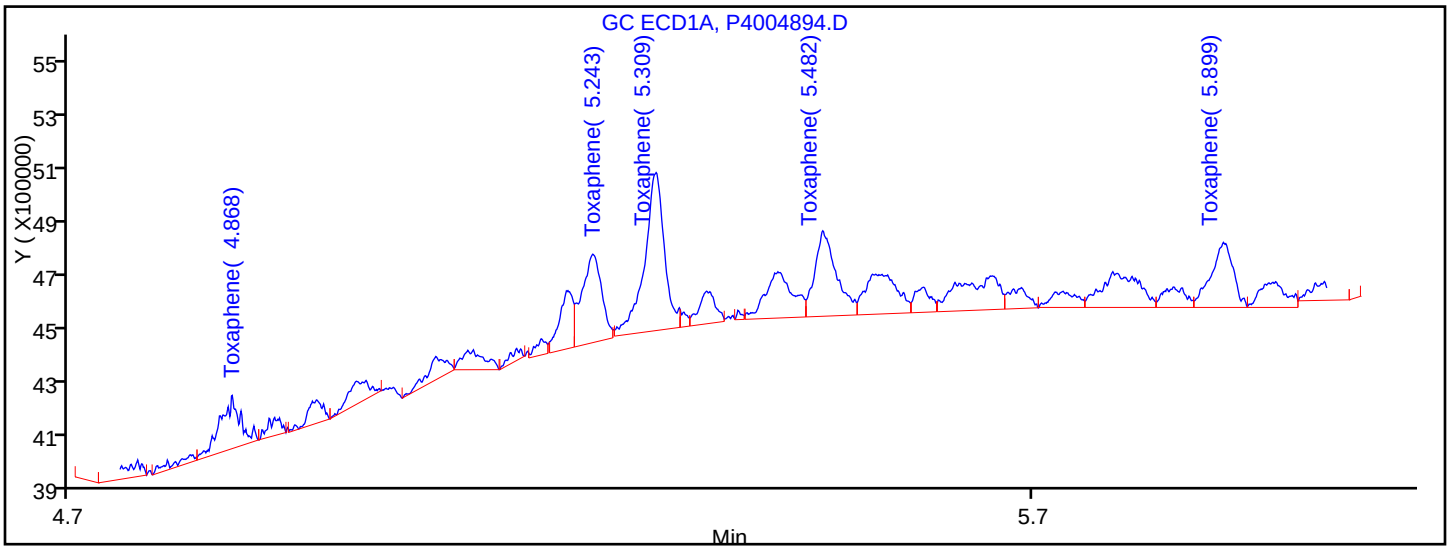
Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4
Lims ID:	IC TOX L1		
Client ID:			
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.868	Response = 331516
5.243	Response = 244154
5.309	Response = 741540
5.482	Response = 318838
5.899	Response = 333270



Manual Integration Results

4.868	Response = 281620	M
5.243	Response = 464415	M
5.309	Response = 832967	M
5.482	Response = 488208	M
5.899	Response = 380508	M

Reviewer: patelji, 27-Sep-2017 12:24:22

Audit Action: Split an Integrated Peak Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D
Lims ID: IC TOX L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 11:23:09 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-016
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:04 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:11:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	30651273	100.0	100.0	
2	1.516	1.513	0.003	41110675	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.862	0.001	3667366	500.0	556.7	M
1	5.245	5.242	0.003	6039262	500.0	616.3	
1	5.307	5.307	0.000	11908262	500.0	614.6	
1	5.482	5.482	0.000	6770393	500.0	580.2	
1	5.896	5.897	-0.001	5311371	500.0	546.2	
		Average of Peak Amounts =				582.8	
2	4.112	4.108	0.004	5082738	500.0	523.4	M
2	4.761	4.758	0.003	6412967	500.0	562.4	M
2	4.931	4.929	0.002	7402802	500.0	613.8	M
2	5.007	5.007	0.000	9335674	500.0	533.5	M
2	5.073	5.072	0.001	9003982	500.0	559.3	M
		Average of Peak Amounts =				558.5	
						RPD = 4.26	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

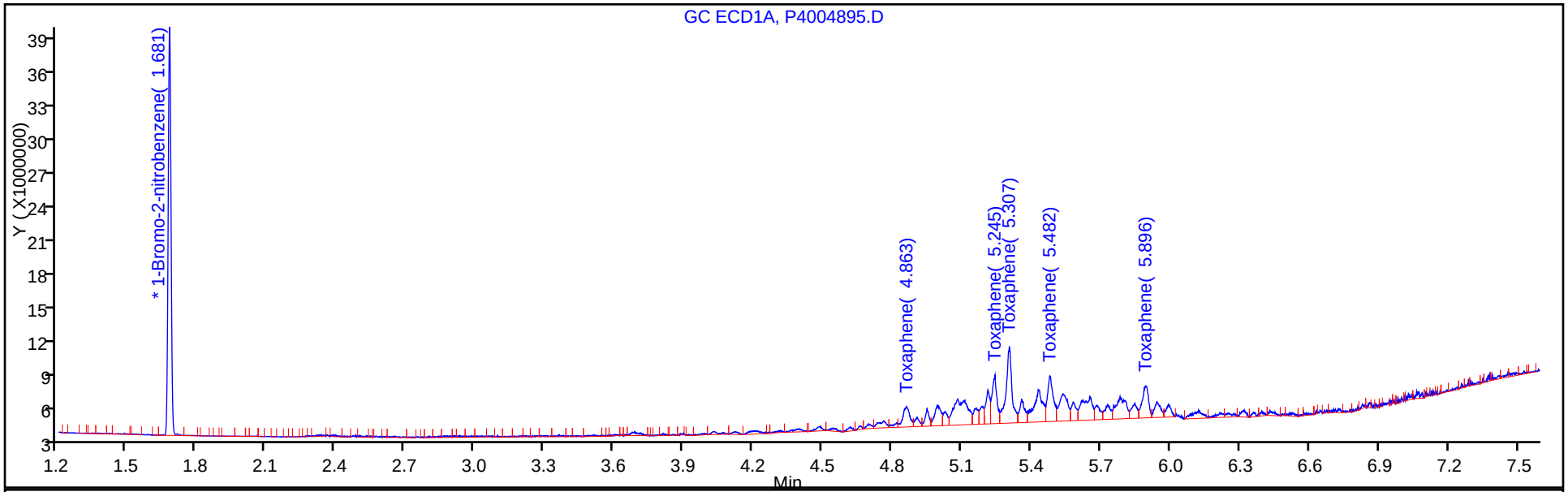
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

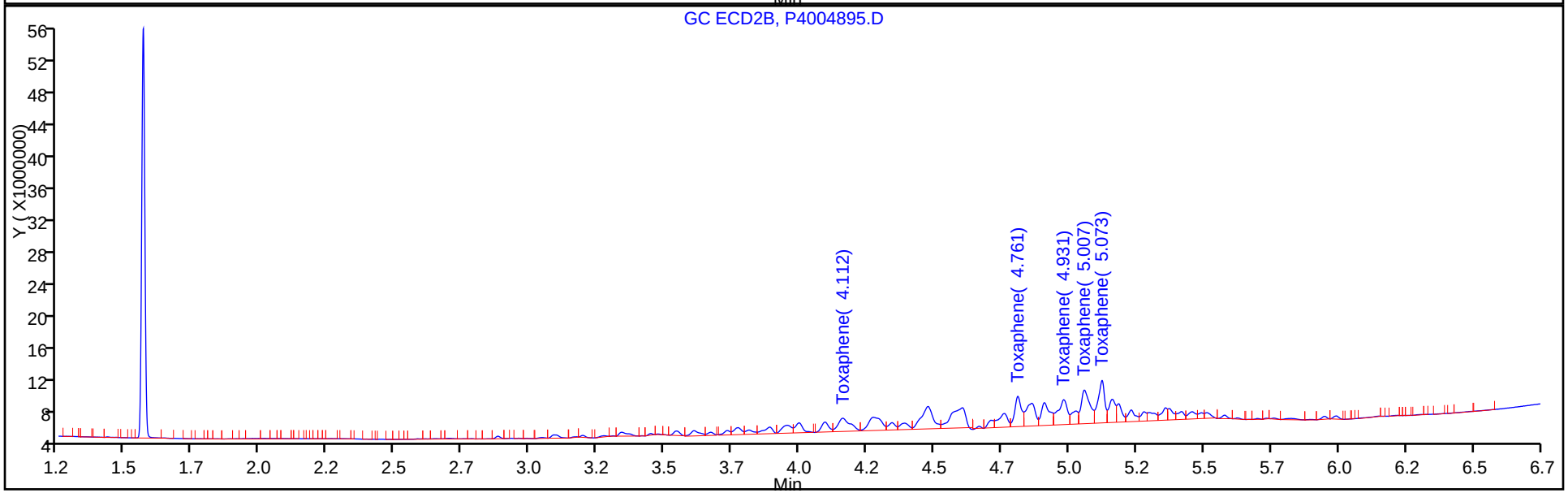
Report Date: 27-Sep-2017 13:44:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 27-Sep-2017 13:44:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

Injection Date: 27-Sep-2017 11:23:09 Instrument ID: CPESTGC4

Lims ID: IC TOX L2

Client ID:

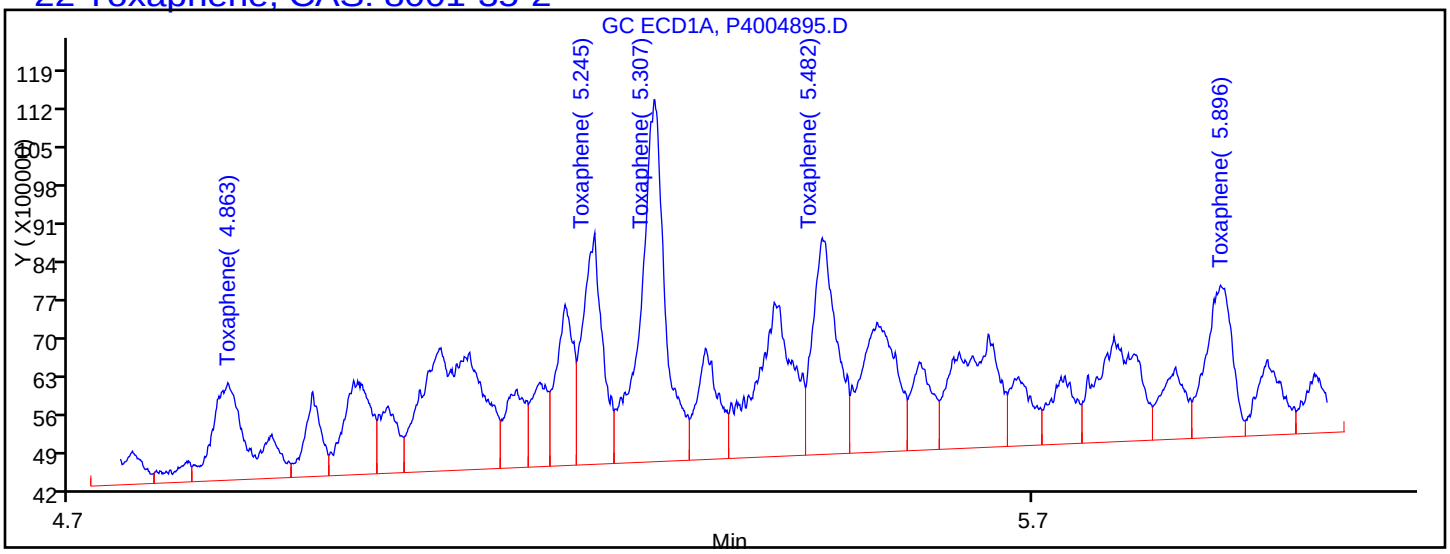
Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

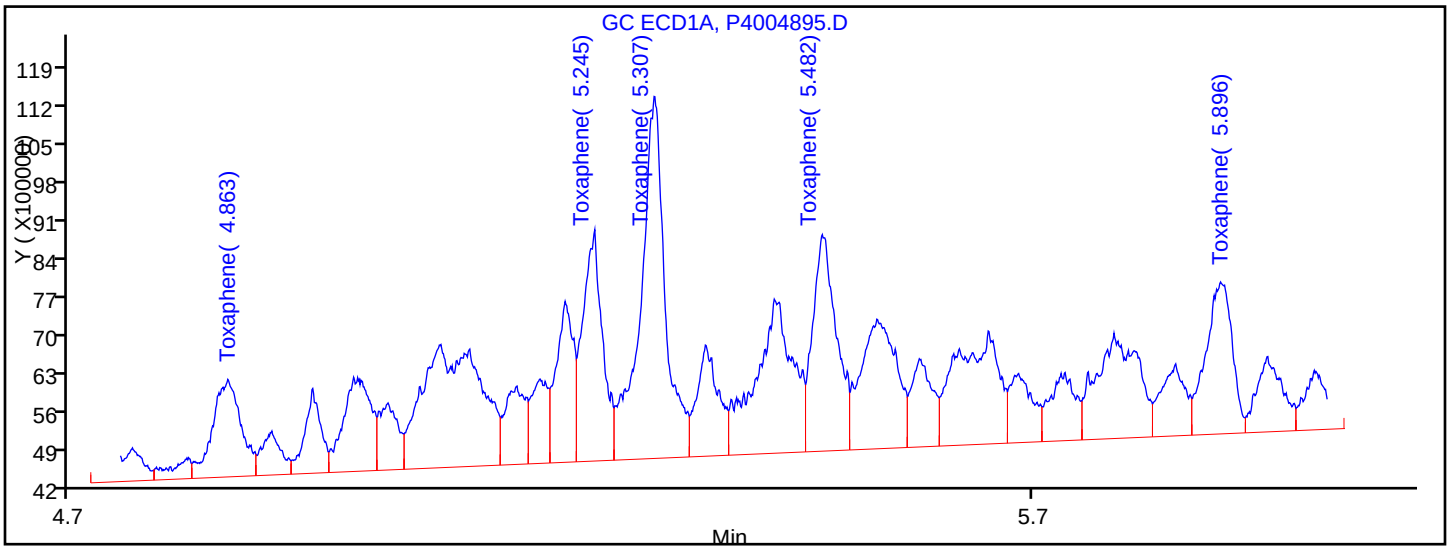
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.863	Response = 4779007
5.245	Response = 6039262
5.307	Response = 11908262
5.482	Response = 6770393
5.896	Response = 5311371



Manual Integration Results

4.863	Response = 3667366	M
5.245	Response = 6039262	
5.307	Response = 11908262	
5.482	Response = 6770393	
5.896	Response = 5311371	

Reviewer: kapoors, 27-Sep-2017 12:10:57

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D
Lims ID: IC TOX L3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 11:34:40 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-017
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:07 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:07:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31242827	100.0	100.0	
2	1.515	1.515	0.000	42903673	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.863	0.000	6787919	1000.0	1010.9	M
1	5.244	5.244	0.000	9379996	1000.0	939.0	M
1	5.307	5.307	0.000	18824836	1000.0	953.2	M
1	5.483	5.483	0.000	11968988	1000.0	1006.2	M
1	5.898	5.898	0.000	9746148	1000.0	983.4	M
		Average of Peak Amounts =				978.5	
2	4.113	4.113	0.000	9510025	1000.0	938.5	M
2	4.762	4.762	0.000	11731990	1000.0	985.9	M
2	4.932	4.932	0.000	9736270	1000.0	773.5	M
2	5.009	5.009	0.000	16355641	1000.0	895.7	M
2	5.074	5.074	0.000	15828268	1000.0	942.1	M
		Average of Peak Amounts =				907.1	
						RPD = 7.57	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

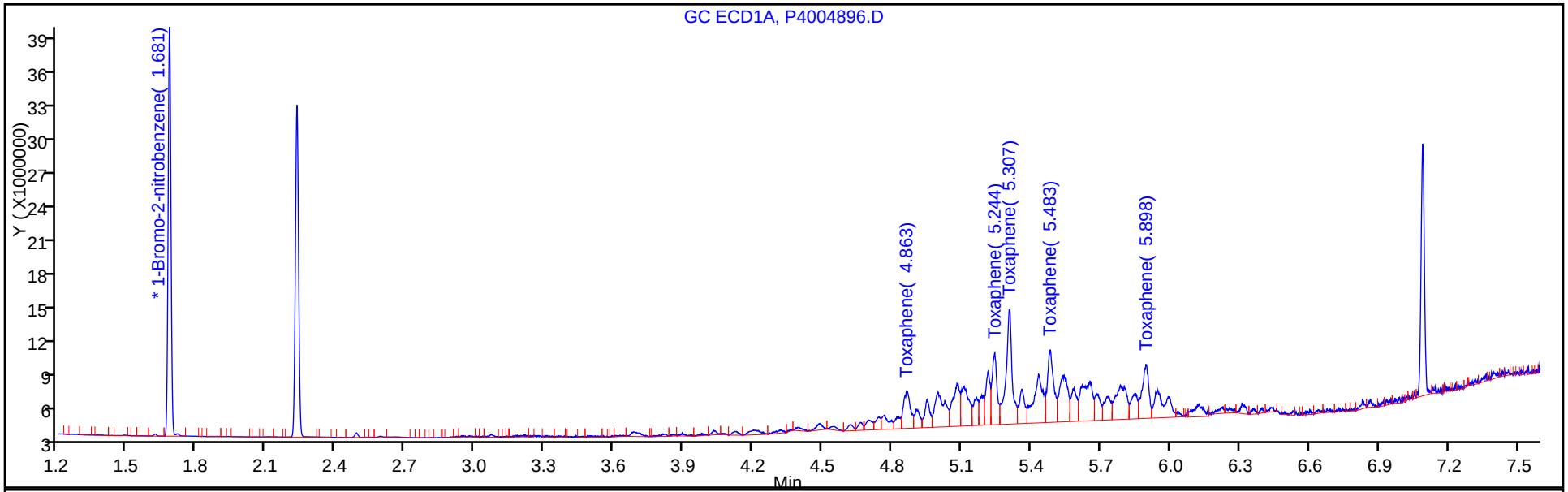
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

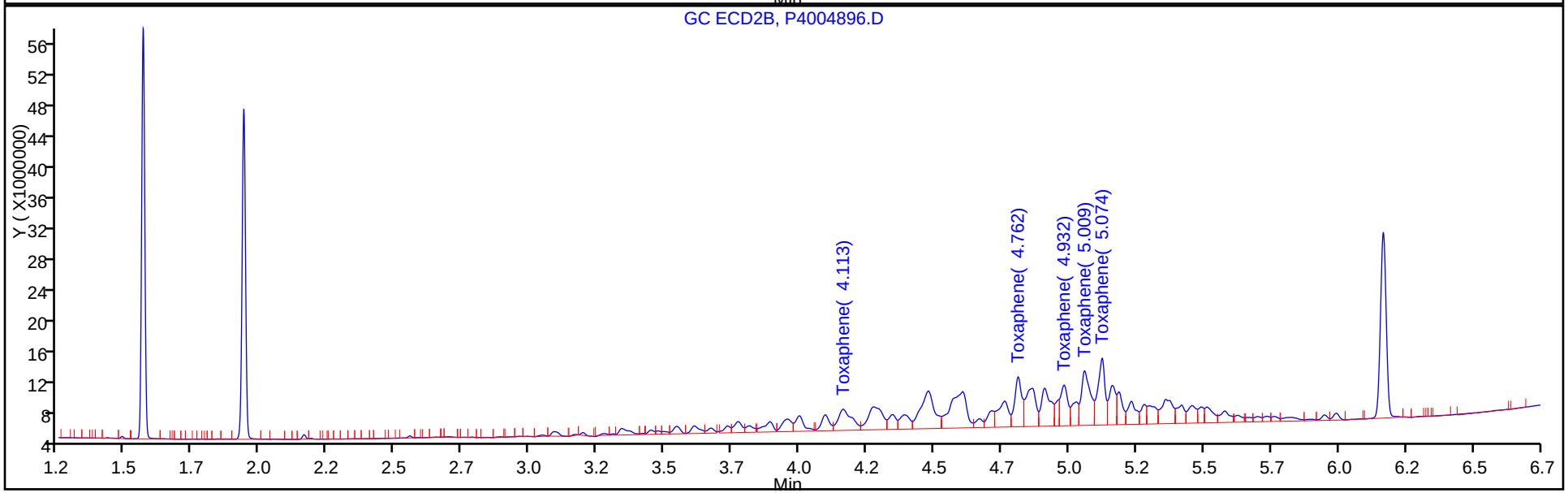
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L3			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





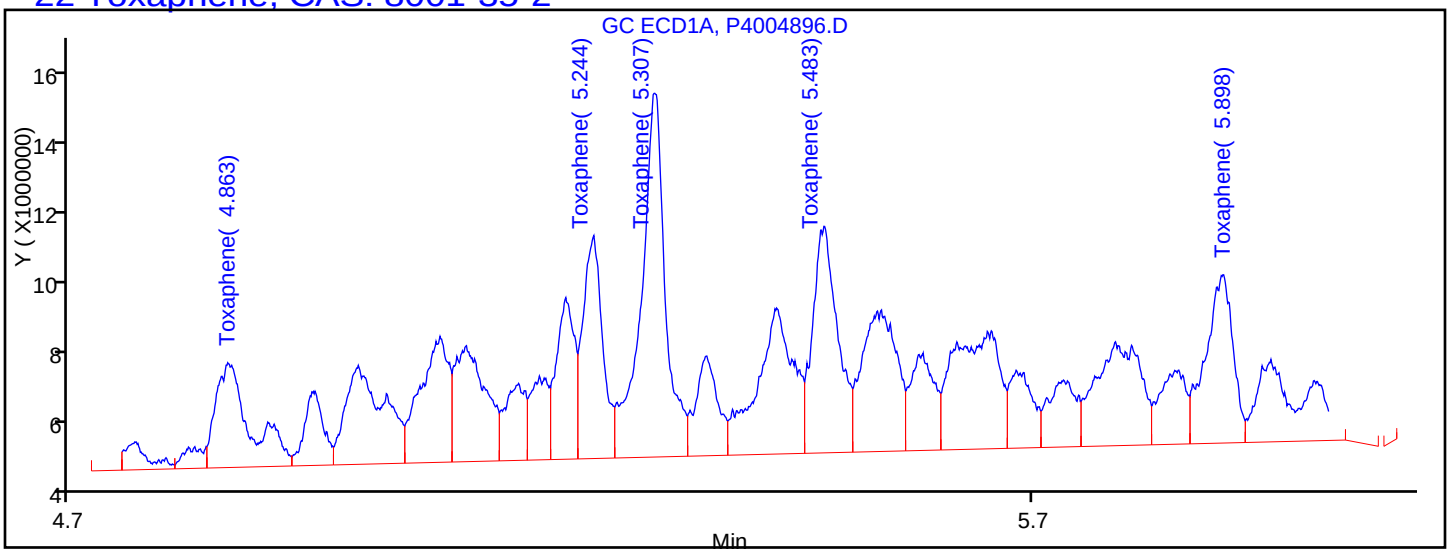
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

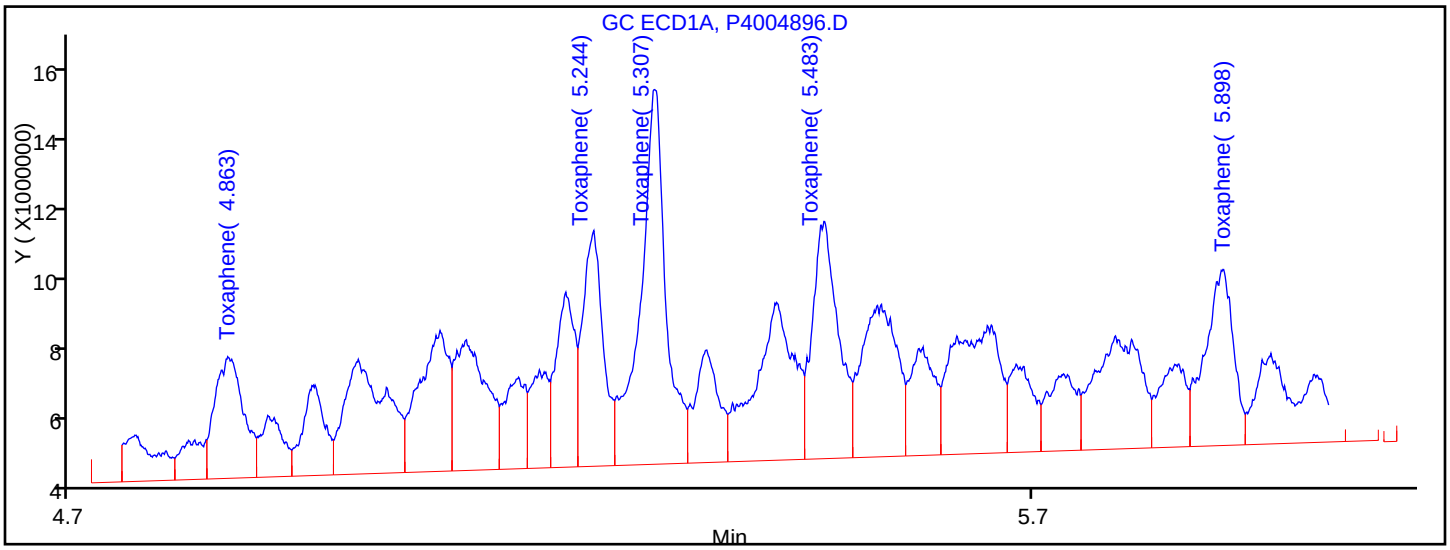
Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L3				
Client ID:					
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.863	Response = 6948309
5.244	Response = 8475871
5.307	Response = 17094207
5.483	Response = 10951502
5.898	Response = 8887566



Manual Integration Results

4.863	Response = 6787919	M
5.244	Response = 9379996	M
5.307	Response = 18824836	M
5.483	Response = 11968988	M
5.898	Response = 9746148	M

Reviewer: patelji, 27-Sep-2017 12:23:47

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D
Lims ID: IC TOX L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 11:46:11 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-018
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:11 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29120301	100.0	100.0	
2	1.514	1.515	-0.001	39923427	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	15522275	2500.0	2480.2	M
1	5.241	5.244	-0.003	21327742	2500.0	2290.8	M
1	5.307	5.307	0.000	43633700	2500.0	2370.5	M
1	5.483	5.483	0.000	26400627	2500.0	2381.2	M
1	5.898	5.898	0.000	24063742	2500.0	2604.9	M
		Average of Peak Amounts =				2425.5	
2	4.111	4.113	-0.002	25532898	2500.0	2707.7	M
2	4.761	4.762	-0.001	27605989	2500.0	2493.1	M
2	4.932	4.932	0.000	29388597	2500.0	2509.1	M
2	5.008	5.009	-0.001	36852578	2500.0	2168.8	M
2	5.073	5.074	-0.001	35030731	2500.0	2240.6	M
		Average of Peak Amounts =				2423.9	
						RPD = 0.07	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

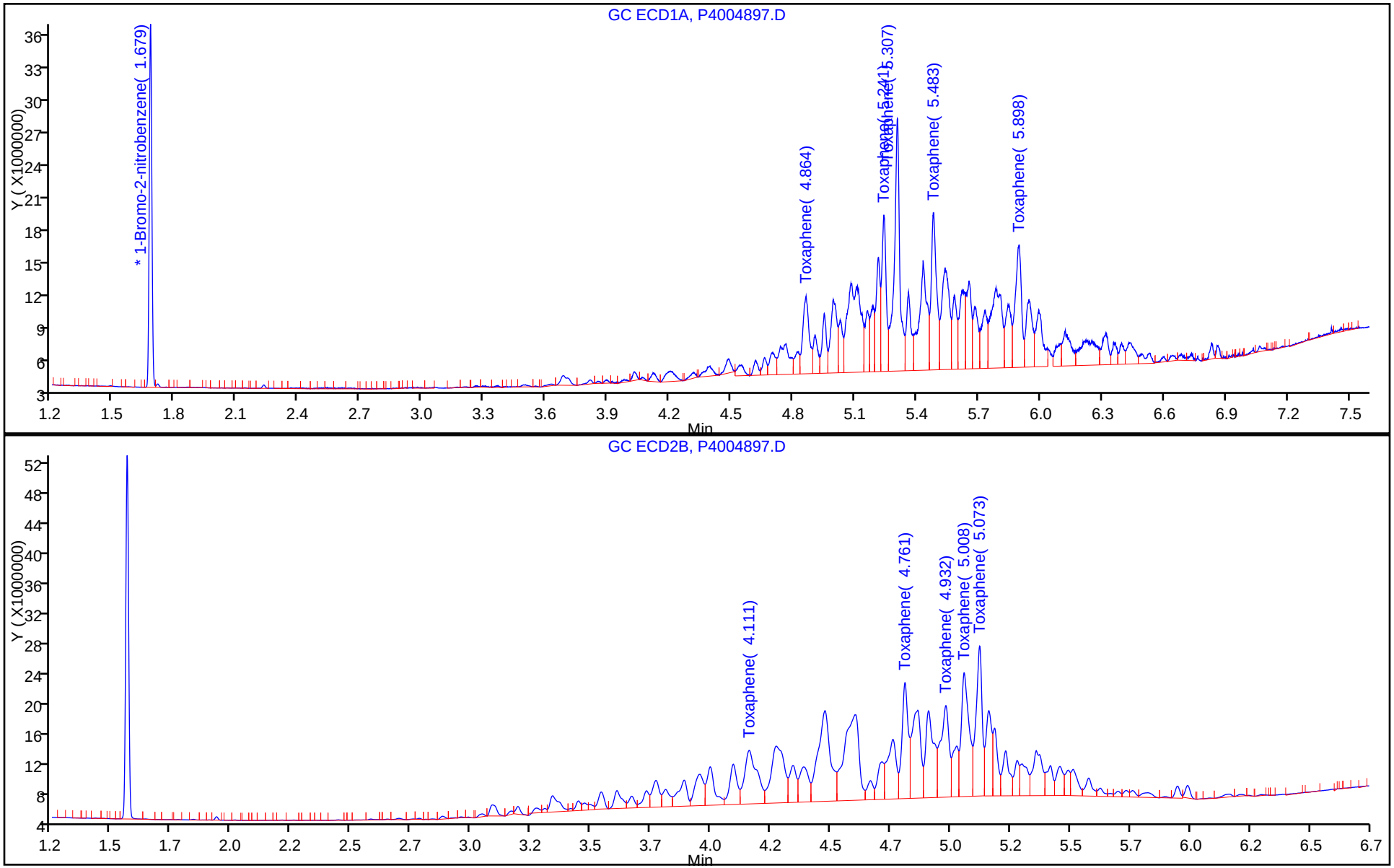
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:44:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L5			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



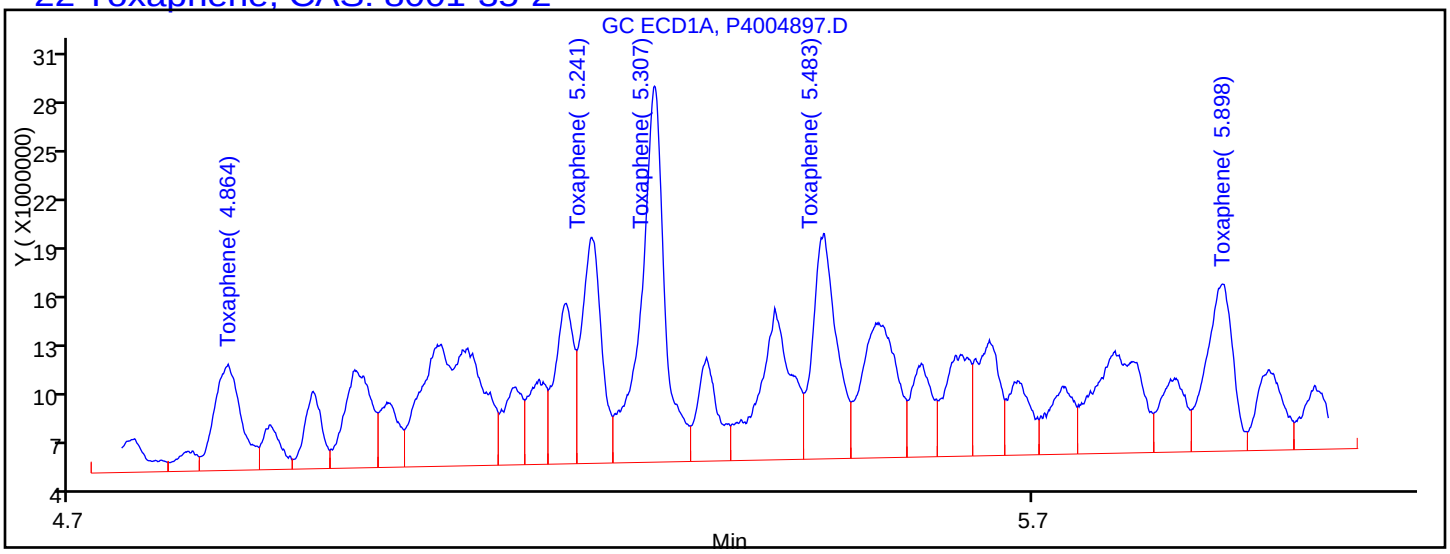
Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

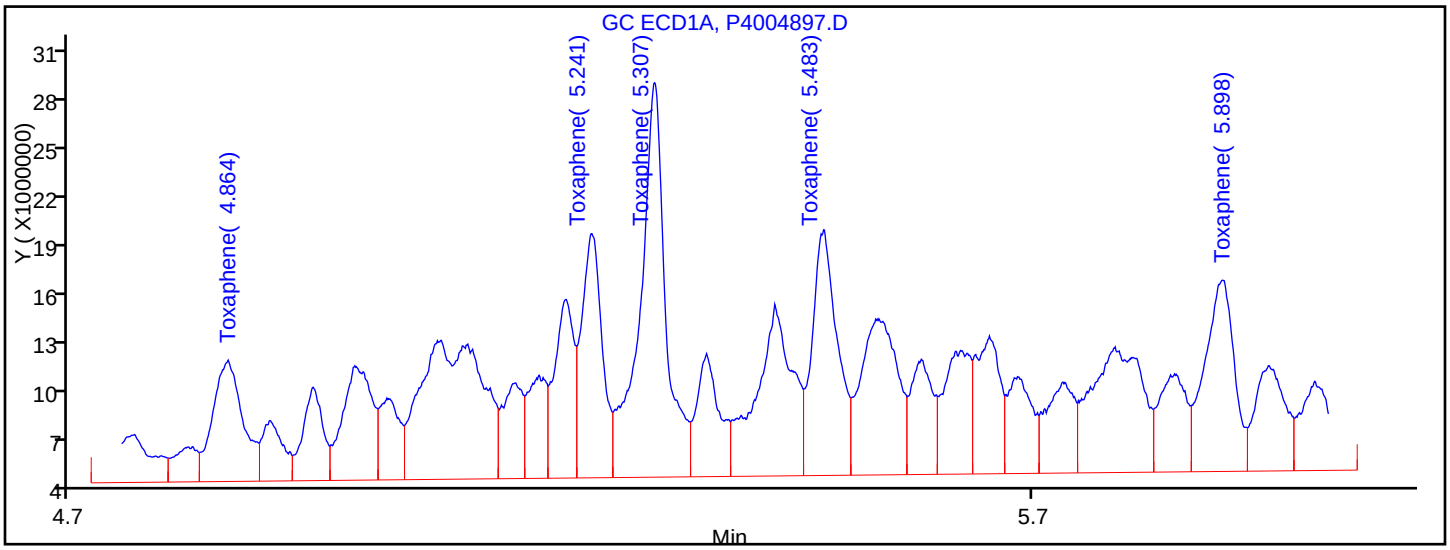
Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L5				
Client ID:					
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.864	Response = 12134101
5.241	Response = 18848246
5.307	Response = 38139121
5.483	Response = 22777348
5.898	Response = 19019201



Manual Integration Results

4.864	Response = 15522275	M
5.241	Response = 21327742	M
5.307	Response = 43633700	M
5.483	Response = 26400627	M
5.898	Response = 24063742	M

Reviewer: patelji, 27-Sep-2017 12:22:44

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D
Lims ID: IC TOX L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 11:58:25 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-019
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:17:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28765414	100.0	100.0	
2	1.514	1.515	-0.001	38810542	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	9719704	1500.0	1572.2	M
1	5.244	5.244	0.000	13601842	1500.0	1479.0	M
1	5.308	5.307	0.001	28066404	1500.0	1543.6	M
1	5.481	5.483	-0.002	17469713	1500.0	1595.1	M
1	5.897	5.898	-0.001	15294665	1500.0	1676.1	M
		Average of Peak Amounts =				1573.2	
2	4.111	4.113	-0.002	16657416	1500.0	1817.1	M
2	4.761	4.762	-0.001	17938949	1500.0	1666.5	M
2	4.931	4.932	-0.001	19355924	1500.0	1700.0	M
2	5.008	5.009	-0.001	24792823	1500.0	1500.9	M
2	5.074	5.074	0.000	23462204	1500.0	1543.7	M
		Average of Peak Amounts =				1645.7	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

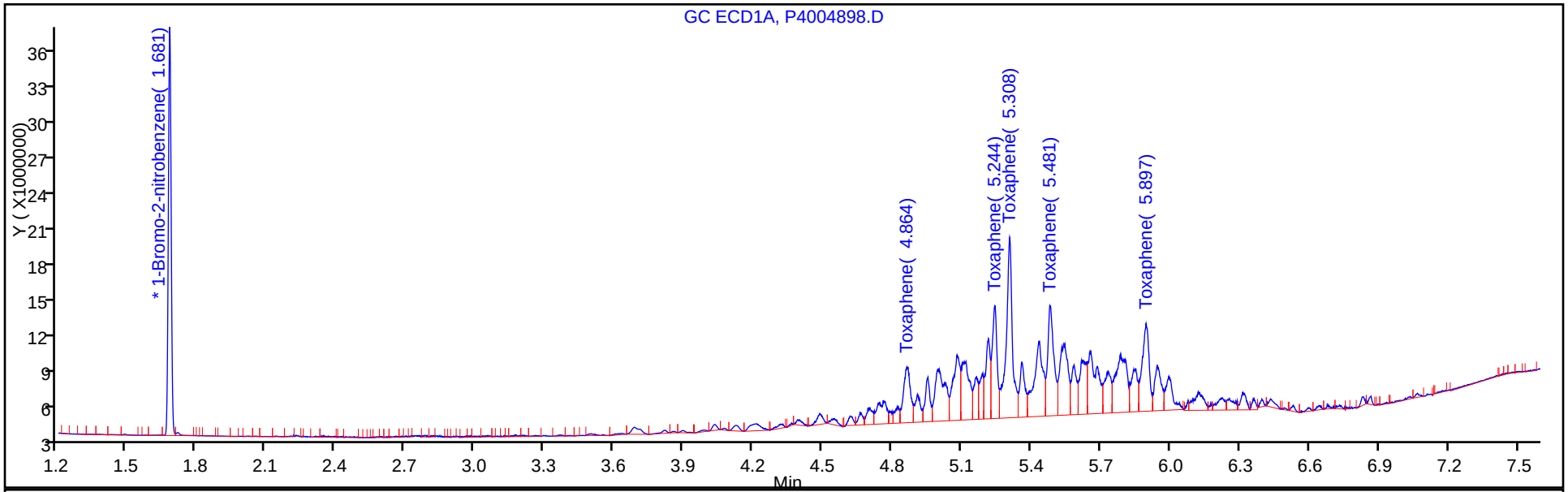
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

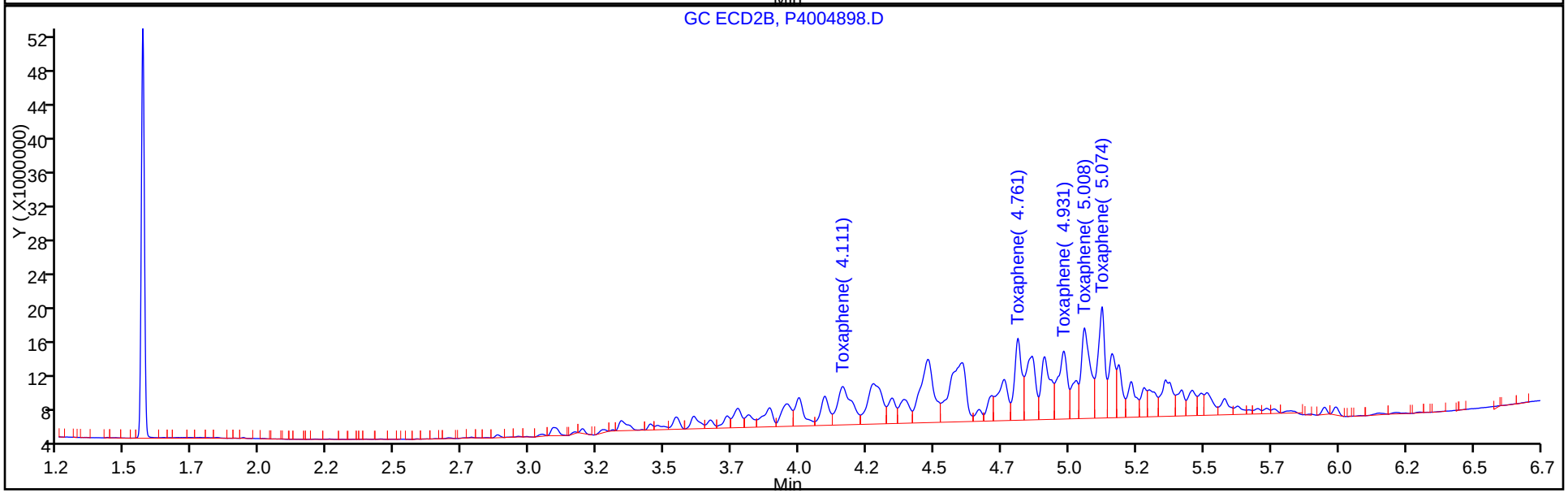
Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date:	27-Sep-2017 11:58:25	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L4			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date: 27-Sep-2017 11:58:25 Instrument ID: CPESTGC4

Lims ID: IC TOX L4

Client ID:

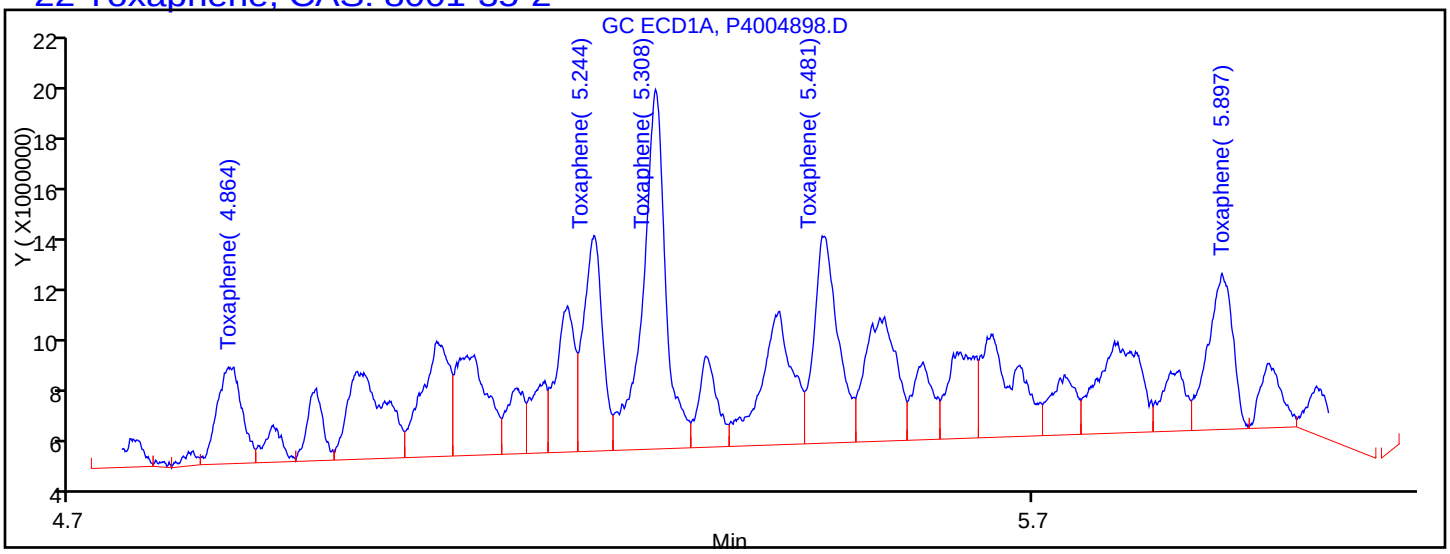
Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD

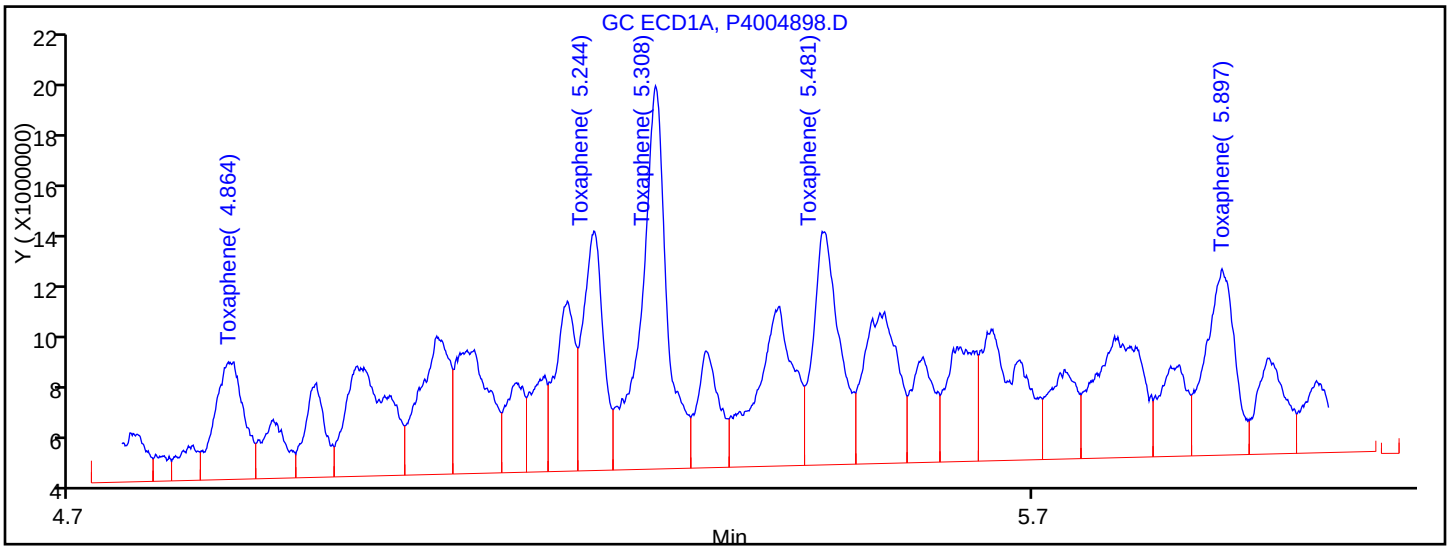
Column: Detector GC ECD1A

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.864	Response = 6816985
5.244	Response = 11441371
5.308	Response = 23198648
5.481	Response = 14039561
5.897	Response = 10897875



Manual Integration Results

4.864	Response = 9719704	M
5.244	Response = 13601842	M
5.308	Response = 28066404	M
5.481	Response = 17469713	M
5.897	Response = 15294665	M

Reviewer: patelji, 27-Sep-2017 12:22:19

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64226

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0170	0.0247	0.0222	0.0286	0.0256	Ave		0.0236				18.4		20.0			
Toxaphene Peak 2	0.0217	0.0312	0.0273	0.0308	0.0277	Ave		0.0277				13.8		20.0			
Toxaphene Peak 3	0.0253	0.0360	0.0227	0.0332	0.0294	Ave		0.0293				18.7		20.0			
Toxaphene Peak 4	0.0498	0.0454	0.0381	0.0426	0.0369	Ave		0.0426				12.4		20.0			
Toxaphene Peak 5	0.0397	0.0438	0.0369	0.0403	0.0351	Ave		0.0392				8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 465107

SDG No.:

Instrument ID: CPESTGC4 GC Column: Rtx-CLP ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 11:11 Calibration End Date: 09/27/2017 11:58 Calibration ID: 64226

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-465107/15	P4004894.D
Level 2	IC 460-465107/16	P4004895.D
Level 3	IC 460-465107/17	P4004896.D
Level 4	IC 460-465107/19	P4004898.D
Level 5	IC 460-465107/18	P4004897.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Ave	348508	5082738	9510025	16657416	25532898	50.0	500	1000	1500	2500
Toxaphene Peak 2	BNB	Ave	443786	6412967	11731990	17938949	27605989	50.0	500	1000	1500	2500
Toxaphene Peak 3	BNB	Ave	518131	7402802	9736270	19355924	29388597	50.0	500	1000	1500	2500
Toxaphene Peak 4	BNB	Ave	1019543	9335674	16355641	24792823	36852578	50.0	500	1000	1500	2500
Toxaphene Peak 5	BNB	Ave	813581	9003982	15828268	23462204	35030731	50.0	500	1000	1500	2500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D
Lims ID: IC TOX L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 11:11:38 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-015
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:00 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:10:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.682	1.681	0.001	31368203	100.0	100.0	
2	1.515	1.513	0.002	40978483	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.868	4.862	0.006	281620	50.0	41.8	M
1	5.243	5.242	0.001	464415	50.0	46.3	M
1	5.309	5.307	0.002	832967	50.0	42.0	M
1	5.482	5.482	0.000	488208	50.0	40.9	M
1	5.899	5.897	0.002	380508	50.0	38.2	M
		Average of Peak Amounts =				41.8	
2	4.113	4.108	0.005	348508	50.0	36.0	
2	4.762	4.758	0.004	443786	50.0	39.0	M
2	4.935	4.929	0.006	518131	50.0	43.1	M
2	5.010	5.007	0.003	1019543	50.0	58.5	M
2	5.074	5.072	0.002	813581	50.0	50.7	M
		Average of Peak Amounts =				45.5	
						RPD = 8.29	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

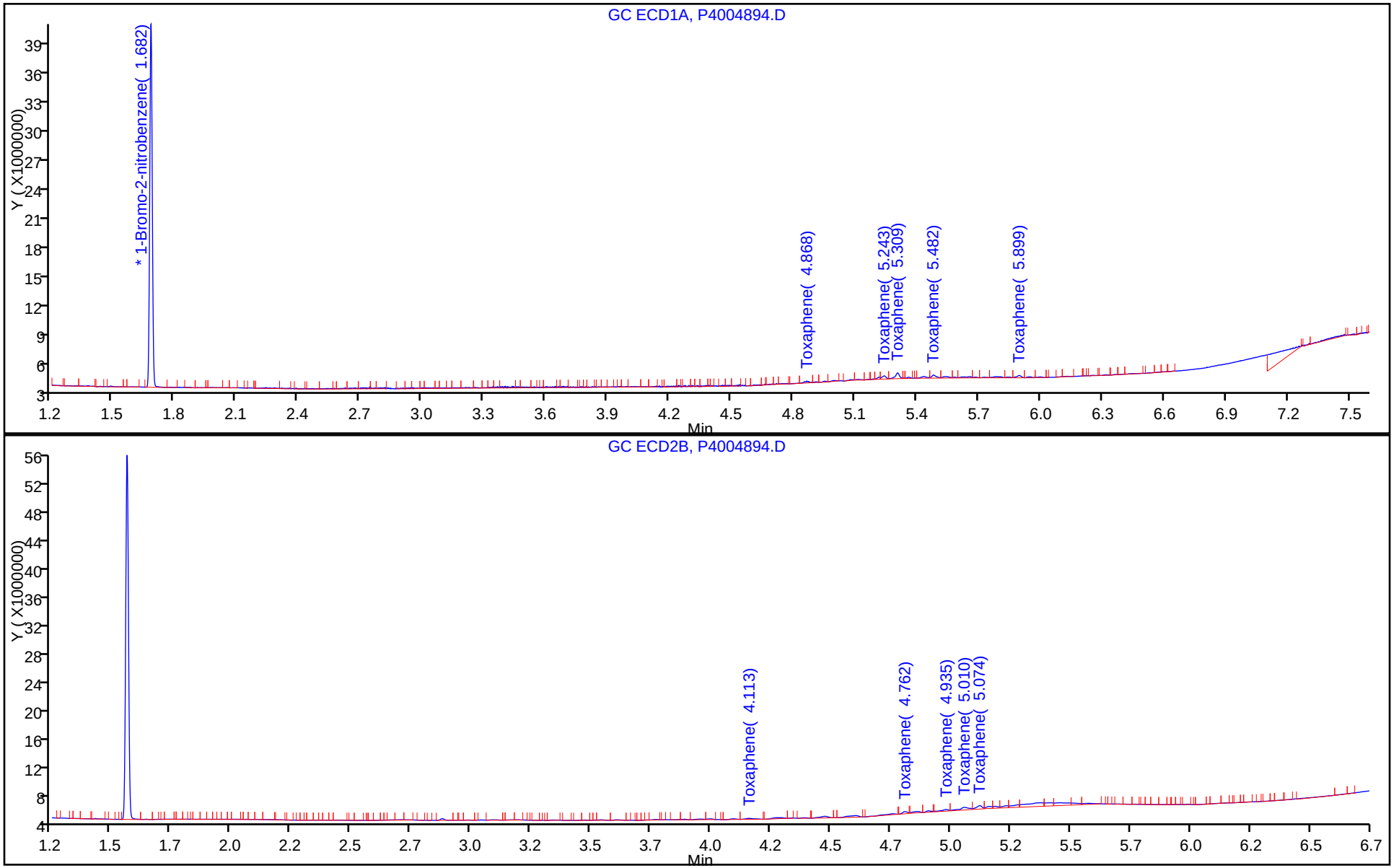
SGTOX608LVIL1_00011 Amount Added: 1.00 Units: mL
SGPESTISTD_00006 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 27-Sep-2017 13:44:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L1			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



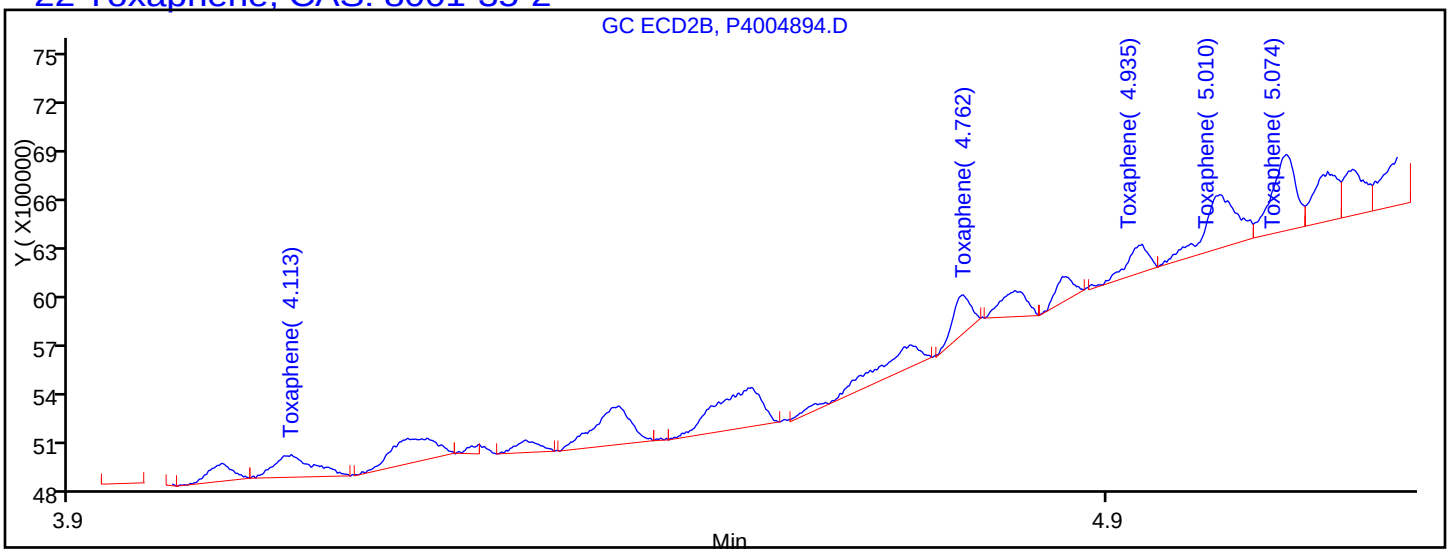
Report Date: 27-Sep-2017 13:44:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004894.D

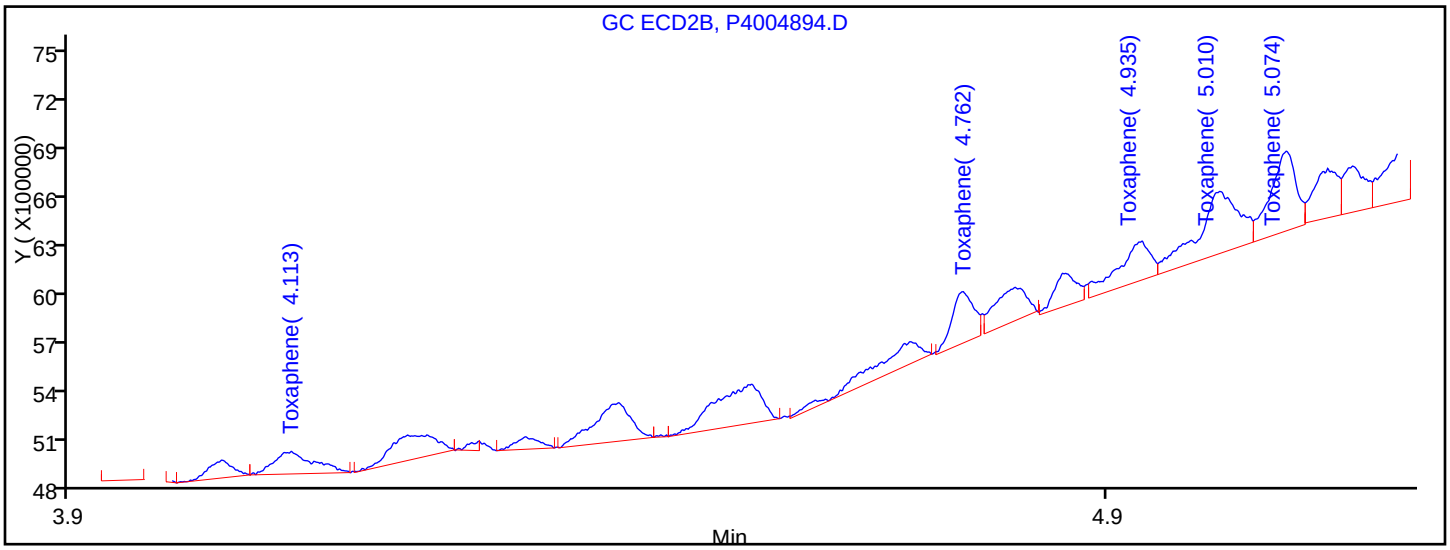
Injection Date:	27-Sep-2017 11:11:38	Instrument ID:	CPESTGC4
Lims ID:	IC TOX L1		
Client ID:			
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.113	Response = 348508
4.762	Response = 281717
4.935	Response = 255285
5.010	Response = 723478
5.074	Response = 736115



Manual Integration Results

4.113	Response = 348508	
4.762	Response = 443786	M
4.935	Response = 518131	M
5.010	Response = 1019543	M
5.074	Response = 813581	M

Reviewer: patelji, 27-Sep-2017 12:24:35

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D
Lims ID: IC TOX L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 11:23:09 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-016
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:04 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:11:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	30651273	100.0	100.0	
2	1.516	1.513	0.003	41110675	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.862	0.001	3667366	500.0	556.7	M
1	5.245	5.242	0.003	6039262	500.0	616.3	
1	5.307	5.307	0.000	11908262	500.0	614.6	
1	5.482	5.482	0.000	6770393	500.0	580.2	
1	5.896	5.897	-0.001	5311371	500.0	546.2	
		Average of Peak Amounts =				582.8	
2	4.112	4.108	0.004	5082738	500.0	523.4	M
2	4.761	4.758	0.003	6412967	500.0	562.4	M
2	4.931	4.929	0.002	7402802	500.0	613.8	M
2	5.007	5.007	0.000	9335674	500.0	533.5	M
2	5.073	5.072	0.001	9003982	500.0	559.3	M
		Average of Peak Amounts =				558.5	
						RPD = 4.26	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

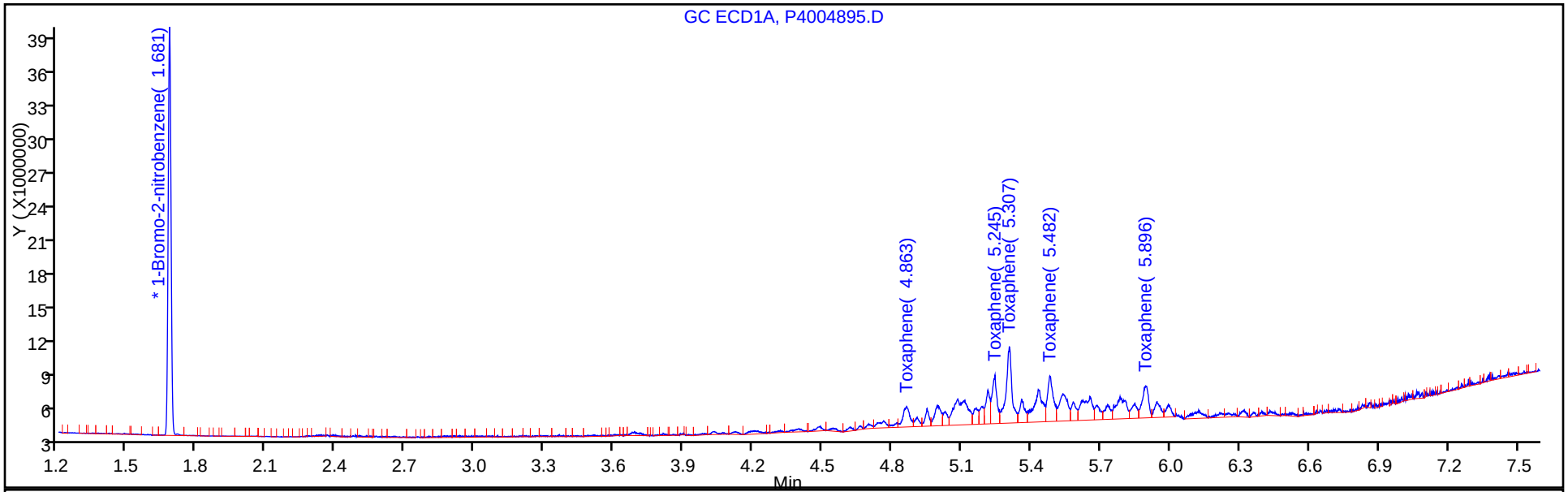
SGTOXL2_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

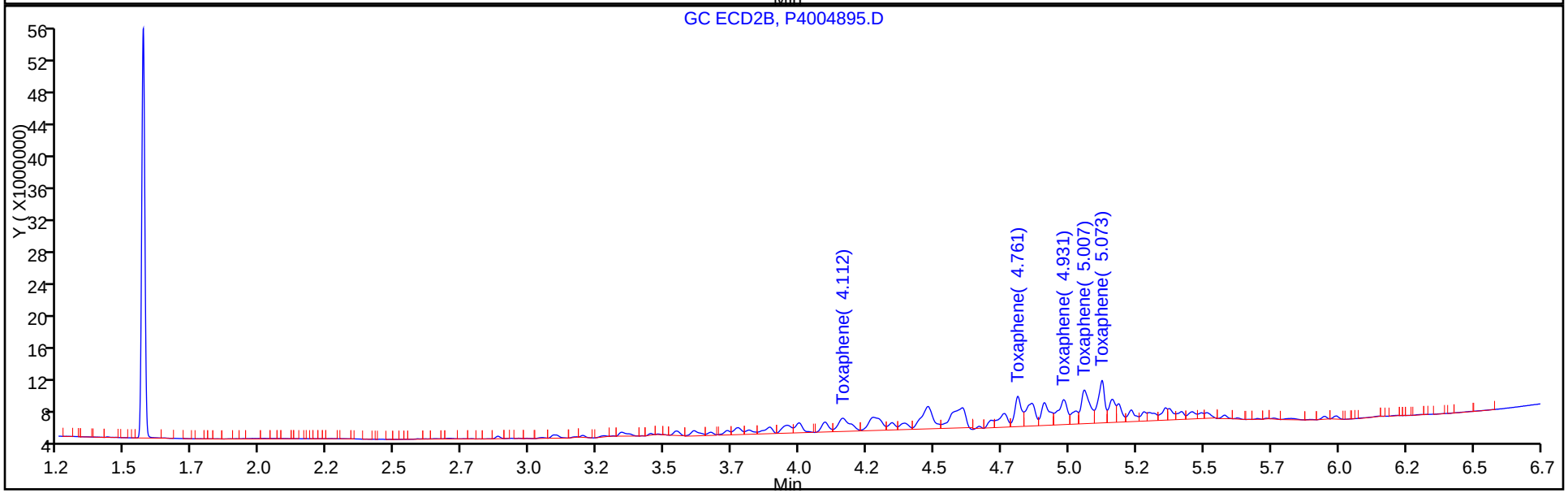
Report Date: 27-Sep-2017 13:44:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





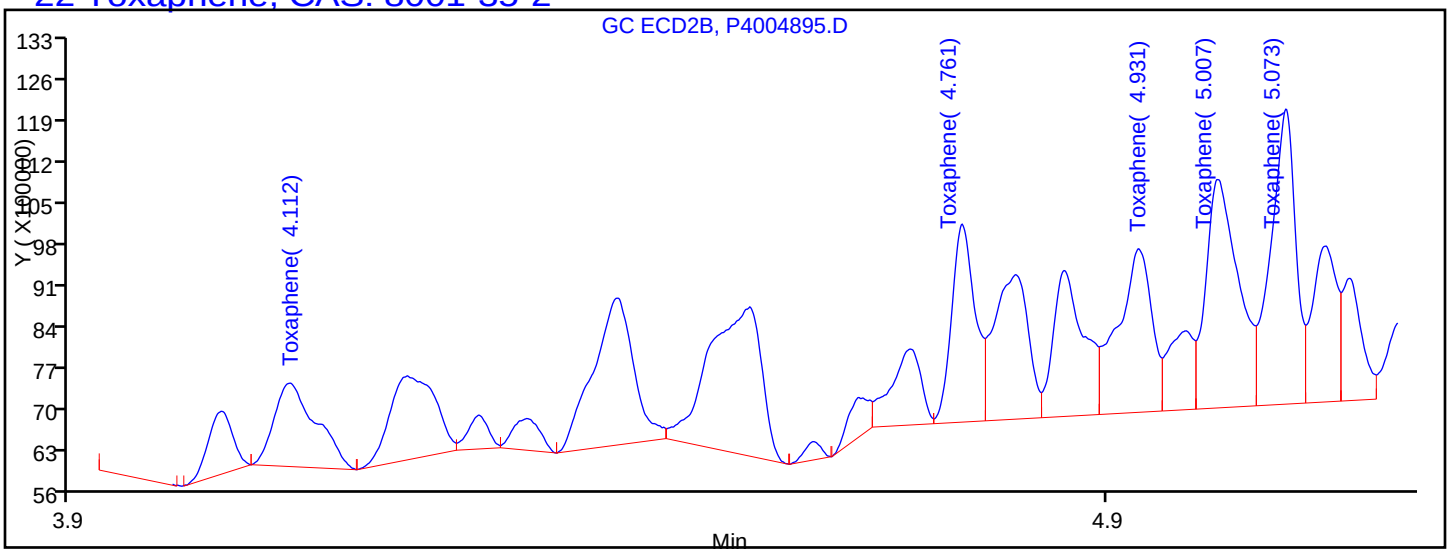
Report Date: 27-Sep-2017 13:44:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004895.D

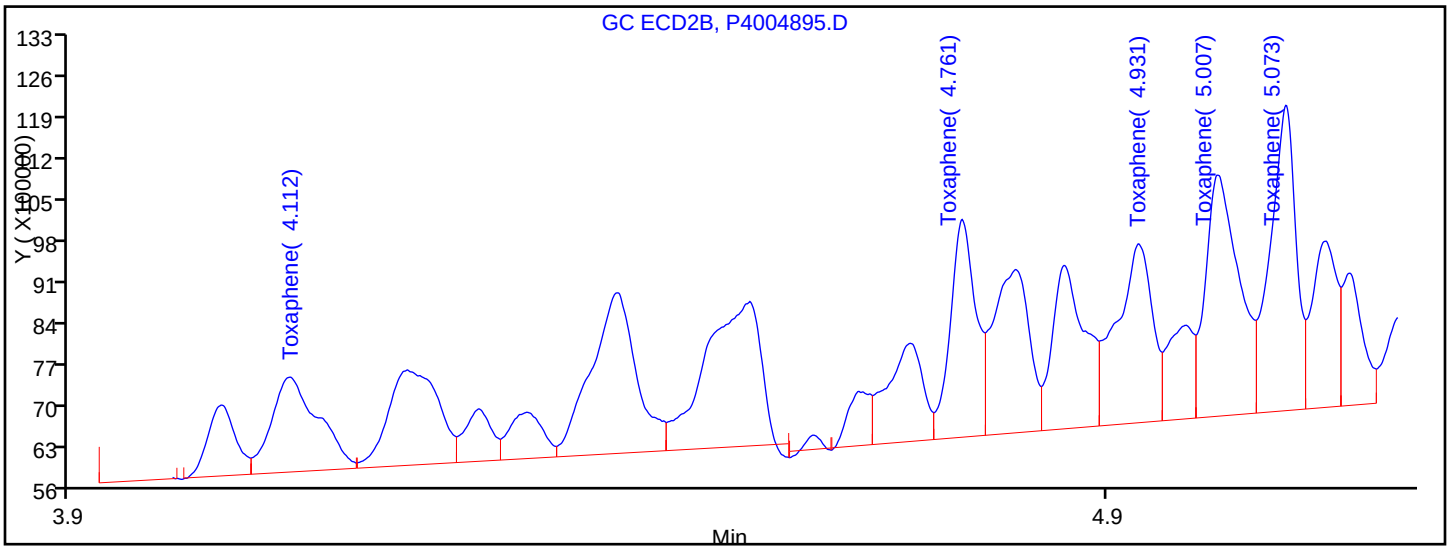
Injection Date:	27-Sep-2017 11:23:09	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L2				
Client ID:					
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.112	Response = 3971244
4.761	Response = 5316254
4.931	Response = 6355336
5.007	Response = 8484385
5.073	Response = 8382444



Manual Integration Results

4.112	Response = 5082738	M
4.761	Response = 6412967	M
4.931	Response = 7402802	M
5.007	Response = 9335674	M
5.073	Response = 9003982	M

Reviewer: kapoors, 27-Sep-2017 12:11:09

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D
Lims ID: IC TOX L3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 27-Sep-2017 11:34:40 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-017
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:07 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: kapoors Date: 27-Sep-2017 12:07:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	31242827	100.0	100.0	
2	1.515	1.515	0.000	42903673	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.863	4.863	0.000	6787919	1000.0	1010.9	M
1	5.244	5.244	0.000	9379996	1000.0	939.0	M
1	5.307	5.307	0.000	18824836	1000.0	953.2	M
1	5.483	5.483	0.000	11968988	1000.0	1006.2	M
1	5.898	5.898	0.000	9746148	1000.0	983.4	M
		Average of Peak Amounts =				978.5	
2	4.113	4.113	0.000	9510025	1000.0	938.5	M
2	4.762	4.762	0.000	11731990	1000.0	985.9	M
2	4.932	4.932	0.000	9736270	1000.0	773.5	M
2	5.009	5.009	0.000	16355641	1000.0	895.7	M
2	5.074	5.074	0.000	15828268	1000.0	942.1	M
		Average of Peak Amounts =				907.1	
						RPD = 7.57	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

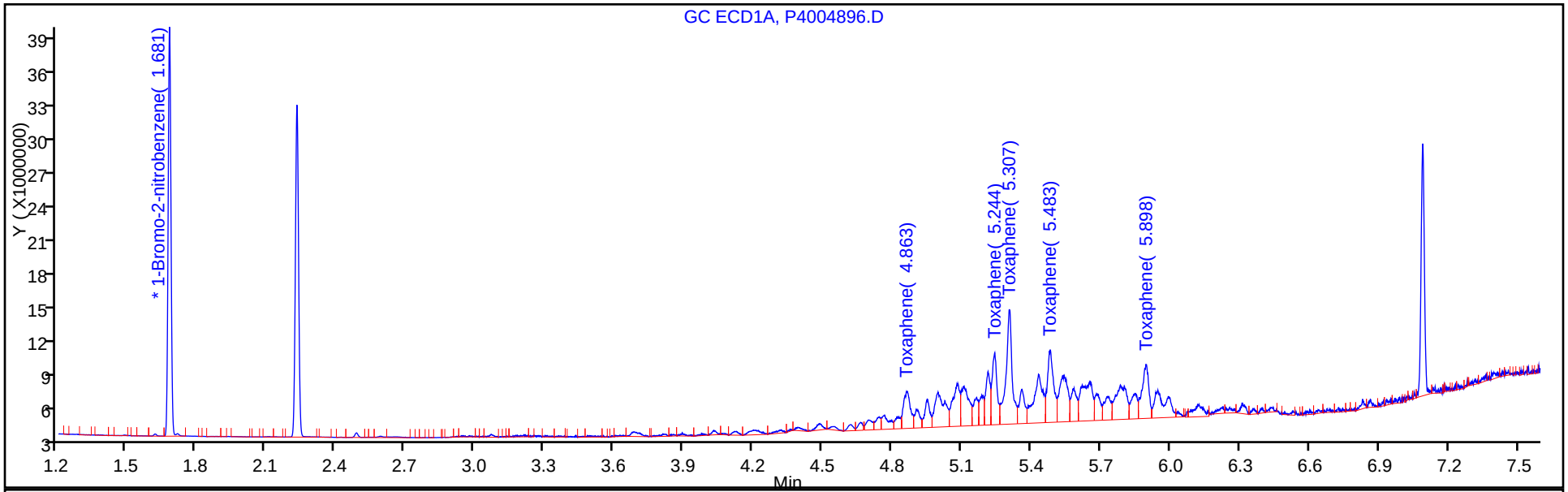
SGTOXL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

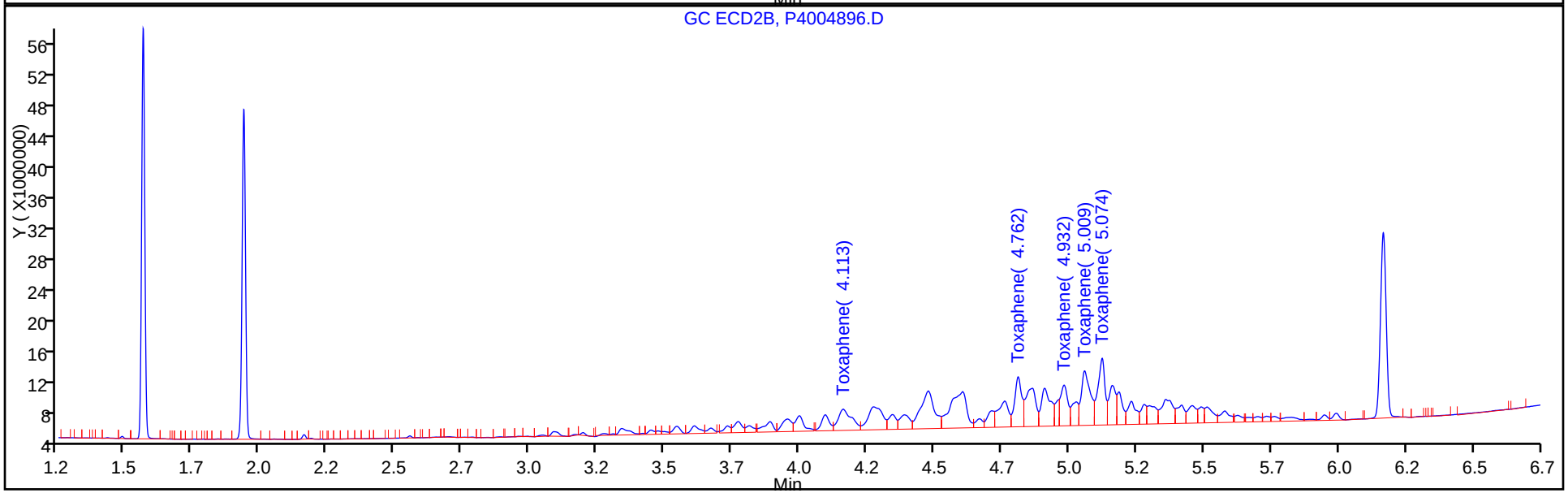
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L3			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





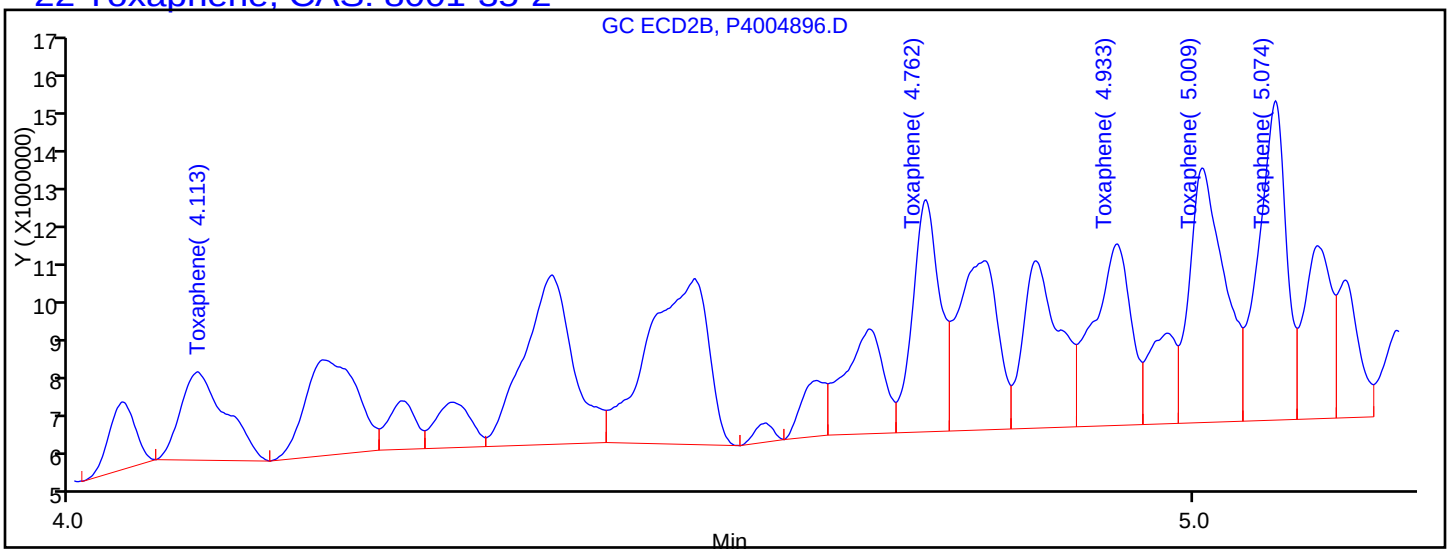
Report Date: 27-Sep-2017 13:44:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004896.D

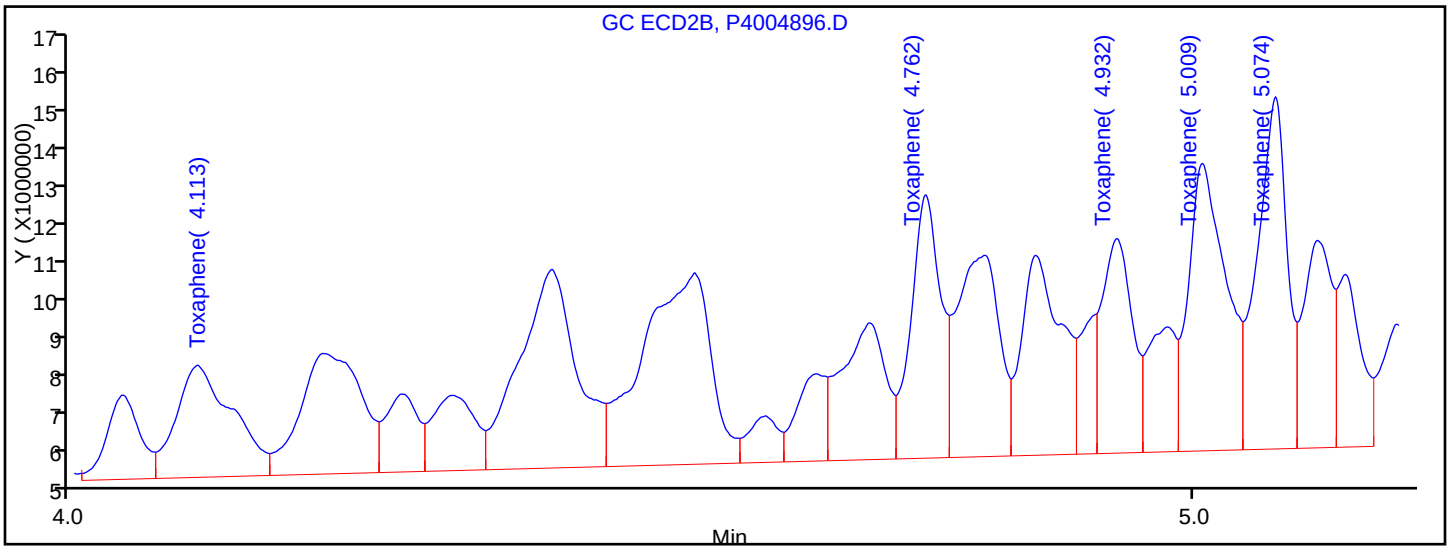
Injection Date:	27-Sep-2017 11:34:40	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L3				
Client ID:					
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.113	Response = 5953484
4.762	Response = 9417596
4.933	Response = 10180459
5.009	Response = 13389221
5.074	Response = 13306198



Manual Integration Results

4.113	Response = 9510025	M
4.762	Response = 11731990	M
4.932	Response = 9736270	M
5.009	Response = 16355641	M
5.074	Response = 15828268	M

Reviewer: patelji, 27-Sep-2017 12:23:55

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D
Lims ID: IC TOX L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 11:46:11 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-018
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:11 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.679	1.681	-0.002	29120301	100.0	100.0	
2	1.514	1.515	-0.001	39923427	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	15522275	2500.0	2480.2	M
1	5.241	5.244	-0.003	21327742	2500.0	2290.8	M
1	5.307	5.307	0.000	43633700	2500.0	2370.5	M
1	5.483	5.483	0.000	26400627	2500.0	2381.2	M
1	5.898	5.898	0.000	24063742	2500.0	2604.9	M
		Average of Peak Amounts =				2425.5	
2	4.111	4.113	-0.002	25532898	2500.0	2707.7	M
2	4.761	4.762	-0.001	27605989	2500.0	2493.1	M
2	4.932	4.932	0.000	29388597	2500.0	2509.1	M
2	5.008	5.009	-0.001	36852578	2500.0	2168.8	M
2	5.073	5.074	-0.001	35030731	2500.0	2240.6	M
		Average of Peak Amounts =				2423.9	
						RPD = 0.07	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

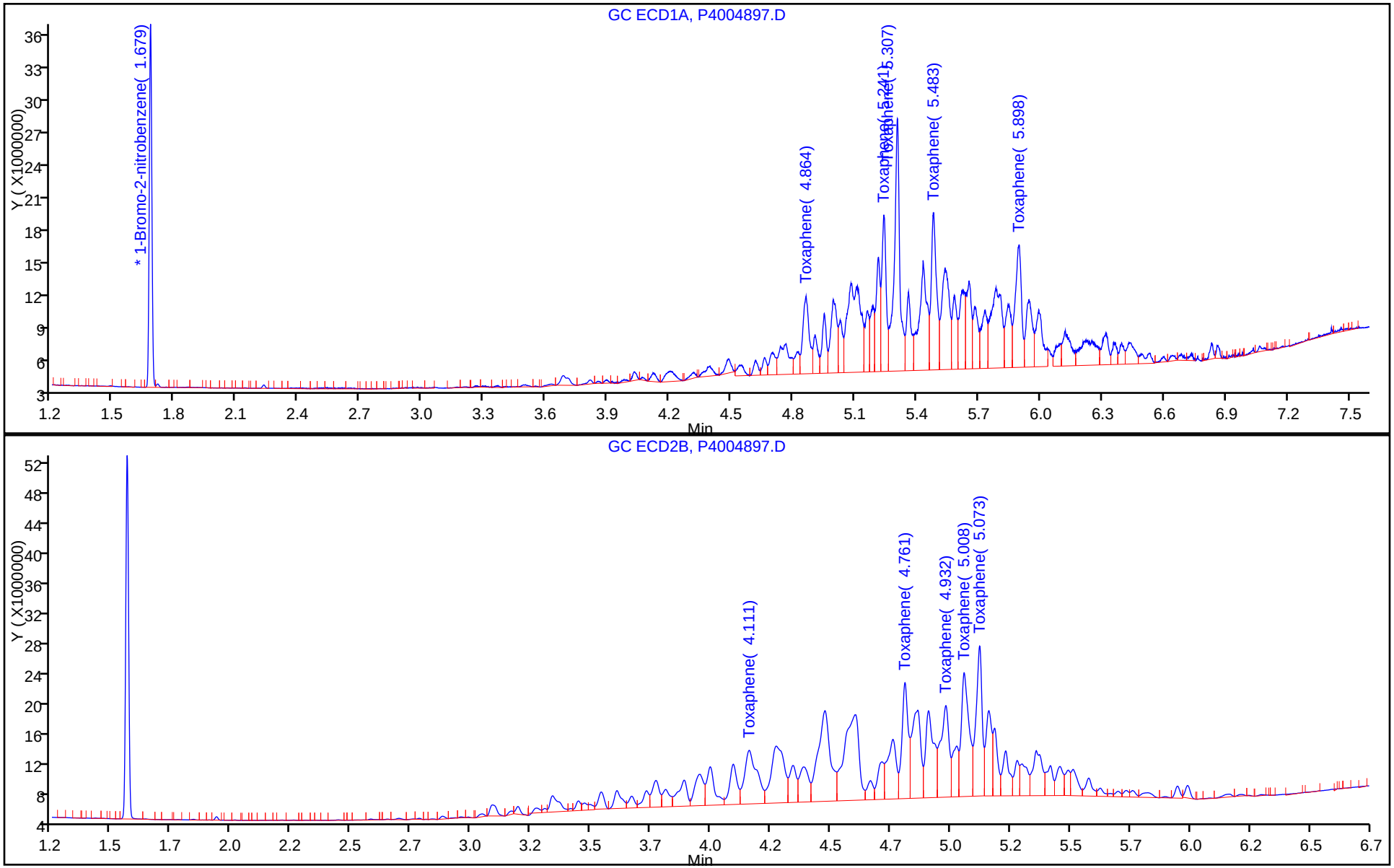
SGTOXL5_00024	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L5			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



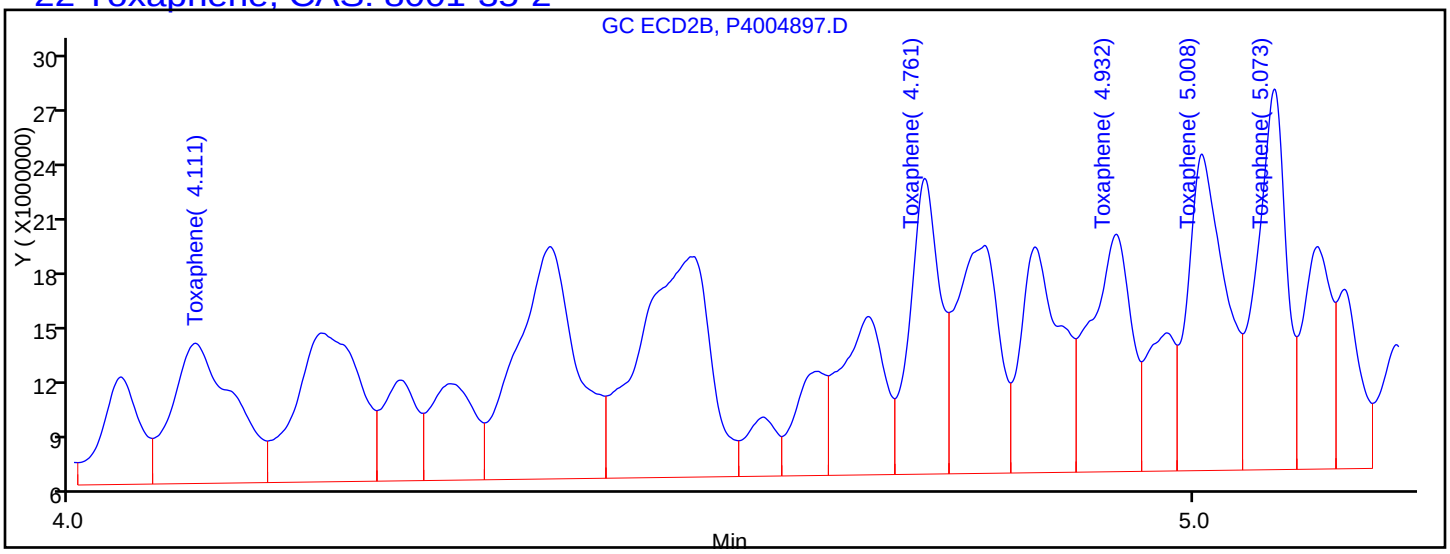
Report Date: 27-Sep-2017 13:44:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004897.D

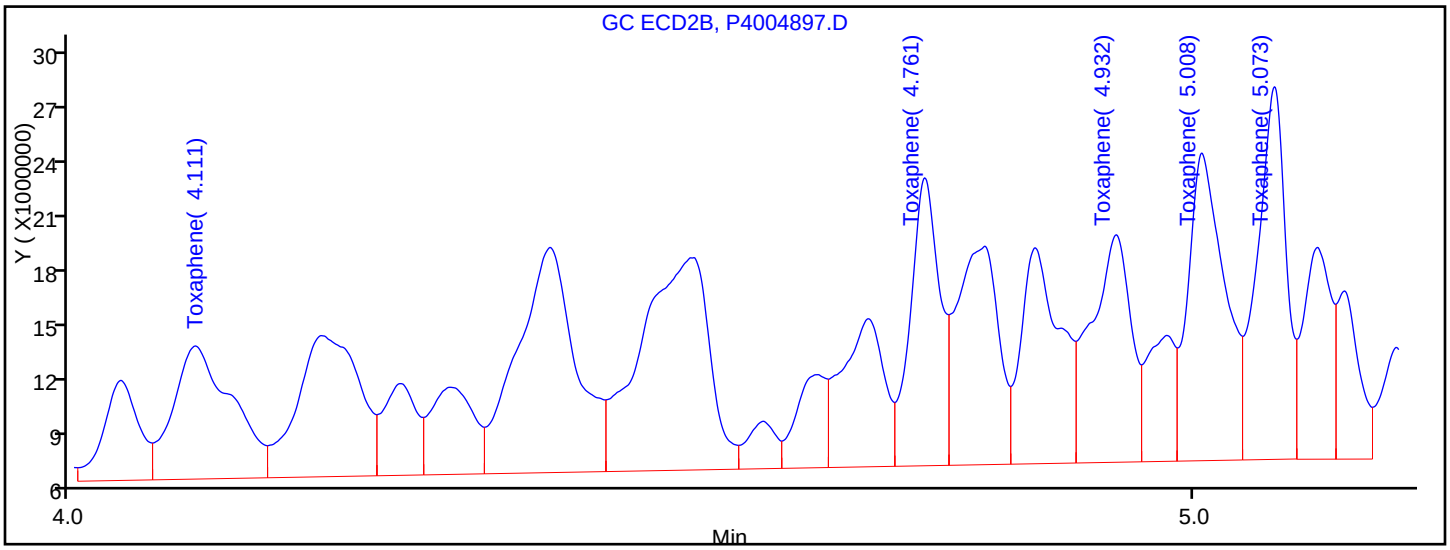
Injection Date:	27-Sep-2017 11:46:11	Instrument ID:	CPESTGC4		
Lims ID:	IC TOX L5				
Client ID:					
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.111	Response = 28745867
4.761	Response = 29681312
4.932	Response = 32070894
5.008	Response = 39630771
5.073	Response = 37379749



Manual Integration Results

4.111	Response = 25532898	M
4.761	Response = 27605989	M
4.932	Response = 29388597	M
5.008	Response = 36852578	M
5.073	Response = 35030731	M

Reviewer: patelji, 27-Sep-2017 12:22:55

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D
Lims ID: IC TOX L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 11:58:25 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0060919-019
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 27-Sep-2017 13:44:15 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK025

First Level Reviewer: patelji Date: 27-Sep-2017 12:17:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.681	1.681	0.000	28765414	100.0	100.0	
2	1.514	1.515	-0.001	38810542	100.0	100.0	
						RPD = 0.00	
22 Toxaphene							M
1	4.864	4.863	0.001	9719704	1500.0	1572.2	M
1	5.244	5.244	0.000	13601842	1500.0	1479.0	M
1	5.308	5.307	0.001	28066404	1500.0	1543.6	M
1	5.481	5.483	-0.002	17469713	1500.0	1595.1	M
1	5.897	5.898	-0.001	15294665	1500.0	1676.1	M
		Average of Peak Amounts =				1573.2	
2	4.111	4.113	-0.002	16657416	1500.0	1817.1	M
2	4.761	4.762	-0.001	17938949	1500.0	1666.5	M
2	4.931	4.932	-0.001	19355924	1500.0	1700.0	M
2	5.008	5.009	-0.001	24792823	1500.0	1500.9	M
2	5.074	5.074	0.000	23462204	1500.0	1543.7	M
		Average of Peak Amounts =				1645.7	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

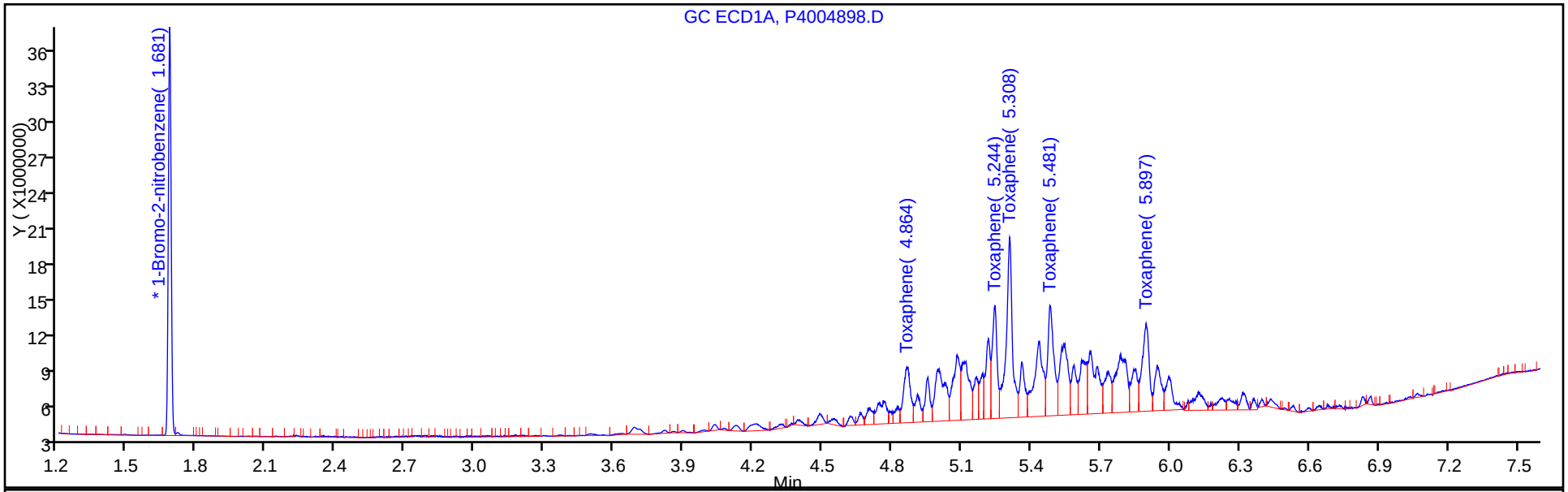
SGTOXL4_00026	Amount Added: 1.00	Units: mL	
SGPESTISTD_00006	Amount Added: 20.00	Units: uL	Run Reagent

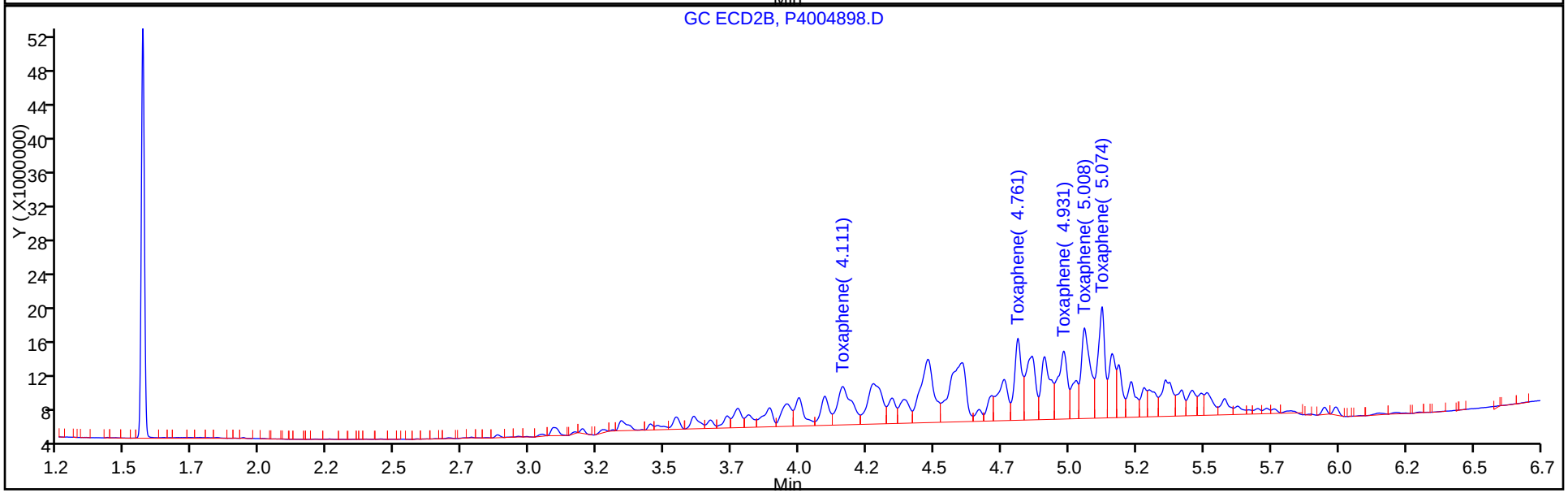
Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Injection Date:	27-Sep-2017 11:58:25	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	IC TOX L4			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





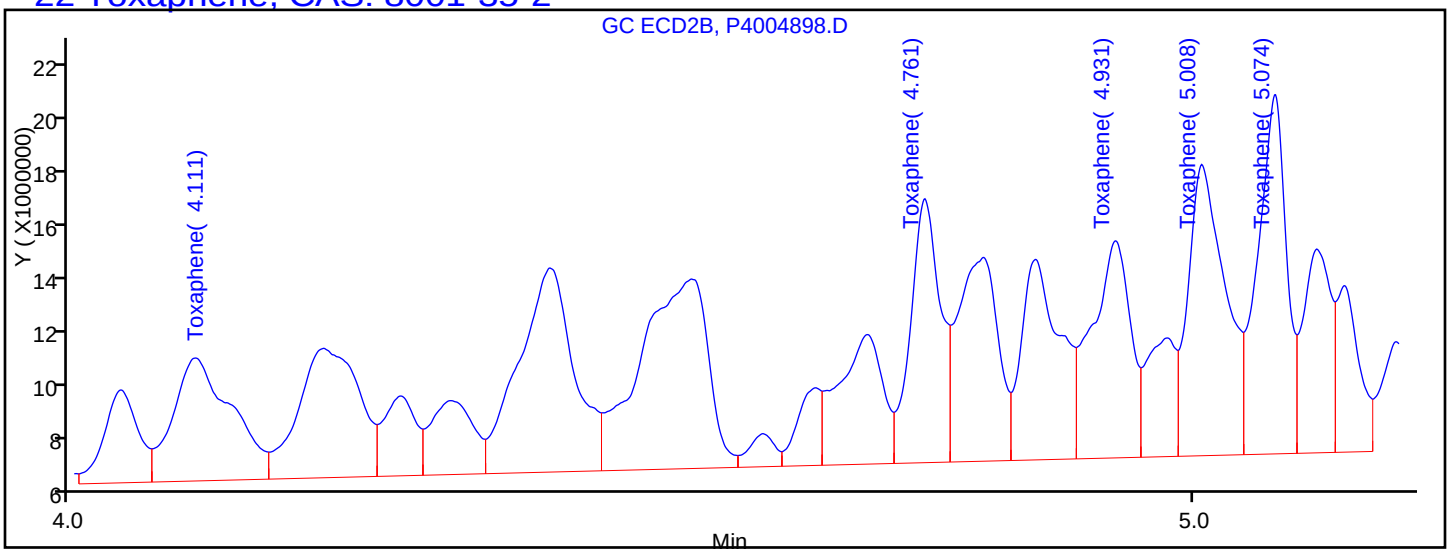
Report Date: 27-Sep-2017 13:44:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

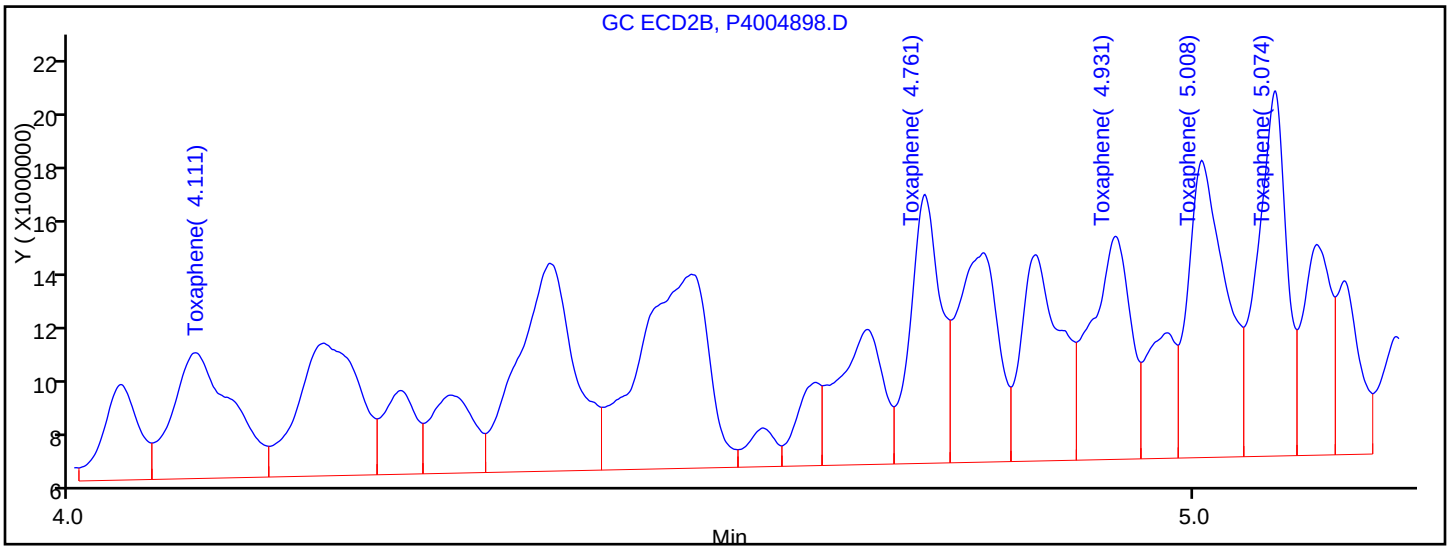
Injection Date:	27-Sep-2017 11:58:25	Instrument ID:	CPESTGC4
Lims ID:	IC TOX L4		
Client ID:			
Operator ID:		ALS Bottle#:	19 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.111	Response = 15851416
4.761	Response = 17241119
4.931	Response = 18459736
5.008	Response = 23831481
5.074	Response = 22654765



Manual Integration Results

4.111	Response = 16657416	M
4.761	Response = 17938949	M
4.931	Response = 19355924	M
5.008	Response = 24792823	M
5.074	Response = 23462204	M

Reviewer: patelji, 27-Sep-2017 12:22:24

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID (2): PEM 460-511361/2 Instrument ID (2): CPESTGC4

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 04/16/2018 08:01

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	4.28	100.0
Endrin	4.78	100.0
4,4'-DDD	4.86	100.0
4,4'-DDT	5.09	100.0
Endrin aldehyde	5.18	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID (1): PEM 460-511361/2 Instrument ID (1): CPESTGC4

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 04/16/2018 08:01

ANALYTE	RT	RESOLUTION (%)
4,4'-DDE	3.26	100.0
Endrin	3.72	100.0
4,4'-DDD	3.78	100.0
4,4'-DDT	4.07	100.0
Endrin aldehyde	4.38	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID (2): CCVIS 460-511361/7 Instrument ID (2): CPESTGC4

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 04/16/2018 09:27

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	2.03	100.00
gamma-BHC (Lindane)	2.65	100.0
Heptachlor	2.98	100.0
Heptachlor epoxide	3.76	100.0
trans-Chlordane	3.95	99.90
cis-Chlordane	4.11	100.0
Endrin	4.78	100.0
Methoxychlor	5.57	100.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID (1): CCVIS 460-511361/7 Instrument ID (1): CPESTGC4

GC Column (1): Rtx-CLP ID: 0.53(mm) Date Analyzed (1): 04/16/2018 09:27

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	1.72	100.00
gamma-BHC (Lindane)	2.17	100.0
Heptachlor	2.45	100.0
Heptachlor epoxide	3.03	100.0
trans-Chlordane	3.12	99.60
cis-Chlordane	3.21	100.0
Endrin	3.73	100.0
Methoxychlor	4.62	96.30

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: PEM 460-511361/2 Calibration Date: 04/16/2018 08:01

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077429.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	4.78	90637024	3.18	15	
Endrin aldehyde	5.18	893962			
Endrin ketone	5.76	2079411			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.09	76695135	6.28	15	
4,4'-DDD	4.86	843139			
4,4'-DDE	4.28	4300134			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077429.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 16-Apr-2018 08:01:37 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub20

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:25:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:06:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.544	1.547	-0.003	40836124	100.0	100.0	
2	1.392	1.396	-0.004	53058212	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	4.282	4.290	-0.008	4300134		9.80	
2	3.263	3.270	-0.007	3306559		6.03	
						RPD = 47.63	
20 Endrin							
1	4.778	4.784	-0.006	90637024	250.0	219.9	
2	3.721	3.729	-0.008	123940455	250.0	224.9	
						RPD = 2.27	
16 4,4'-DDD							
1	4.862	4.864	-0.002	843139		2.30	
2	3.782	3.792	-0.010	833319		1.74	
						RPD = 27.41	
21 4,4'-DDT							
1	5.089	5.092	-0.003	76695135	250.0	197.5	
2	4.074	4.084	-0.010	105507807	250.0	212.7	
						RPD = 7.38	
5 Endrin aldehyde							
1	5.177	5.179	-0.002	893962		2.67	
2	4.384	4.393	-0.009	554733		1.28	
						RPD = 70.67	
13 Endrin ketone							
1	5.762	5.764	-0.002	2079411		4.81	
2	4.999	5.004	-0.005	5292478		8.81	
						RPD = 58.75	

Reagents:

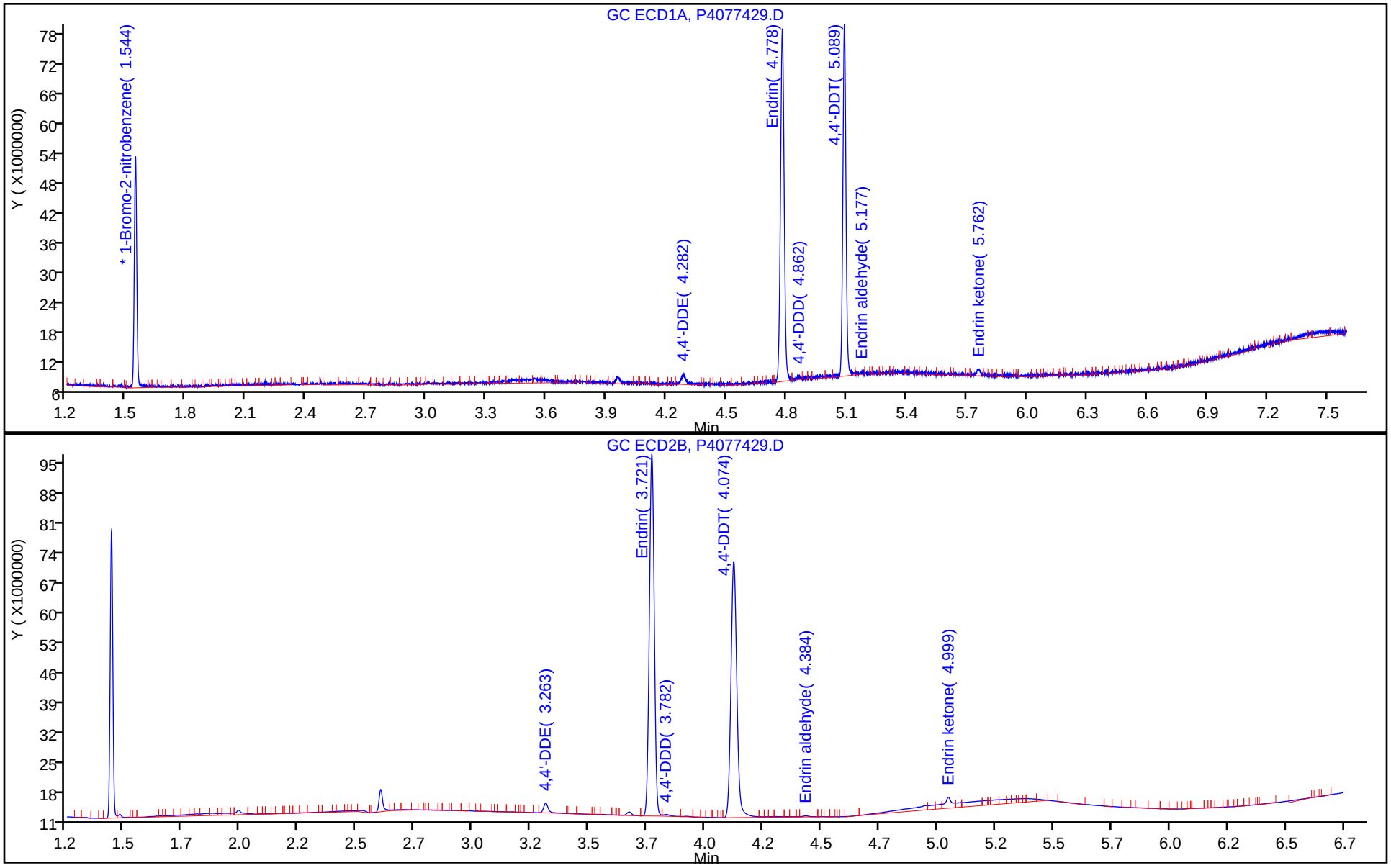
SGDDT/Ei_00033	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:08 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077429.D

Injection Date:	16-Apr-2018 08:01:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: PEM 460-511361/2 Calibration Date: 04/16/2018 08:01

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077429.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	3.72	123940455	4.51	15	
Endrin aldehyde	4.38	554733			
Endrin ketone	5.00	5292478			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	4.07	105507807	3.78	15	
4,4'-DDD	3.78	833319			
4,4'-DDE	3.26	3306559			

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077429.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 16-Apr-2018 08:01:37 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub20

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:25:06 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:06:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.544	1.547	-0.003	40836124	100.0	100.0	
2	1.392	1.396	-0.004	53058212	100.0	100.0	
						RPD = 0.00	
25 4,4'-DDE							
1	4.282	4.290	-0.008	4300134		9.80	
2	3.263	3.270	-0.007	3306559		6.03	
						RPD = 47.63	
20 Endrin							
1	4.778	4.784	-0.006	90637024	250.0	219.9	
2	3.721	3.729	-0.008	123940455	250.0	224.9	
						RPD = 2.27	
16 4,4'-DDD							
1	4.862	4.864	-0.002	843139		2.30	
2	3.782	3.792	-0.010	833319		1.74	
						RPD = 27.41	
21 4,4'-DDT							
1	5.089	5.092	-0.003	76695135	250.0	197.5	
2	4.074	4.084	-0.010	105507807	250.0	212.7	
						RPD = 7.38	
5 Endrin aldehyde							
1	5.177	5.179	-0.002	893962		2.67	
2	4.384	4.393	-0.009	554733		1.28	
						RPD = 70.67	
13 Endrin ketone							
1	5.762	5.764	-0.002	2079411		4.81	
2	4.999	5.004	-0.005	5292478		8.81	
						RPD = 58.75	

Reagents:

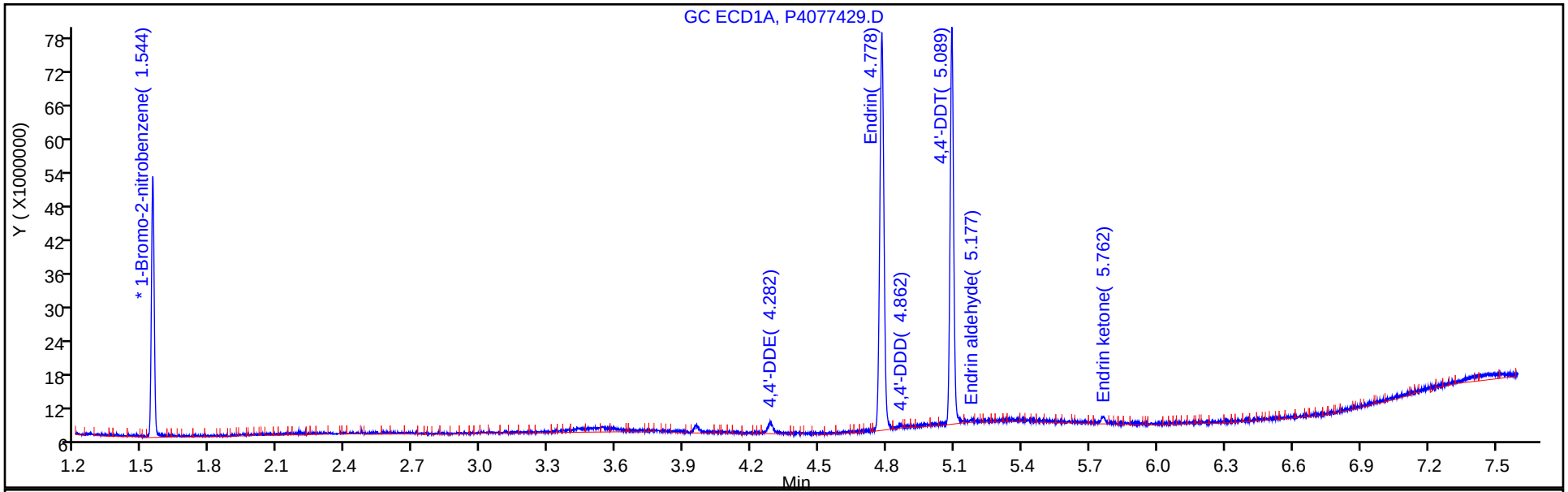
SGDDT/Ei_00033	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

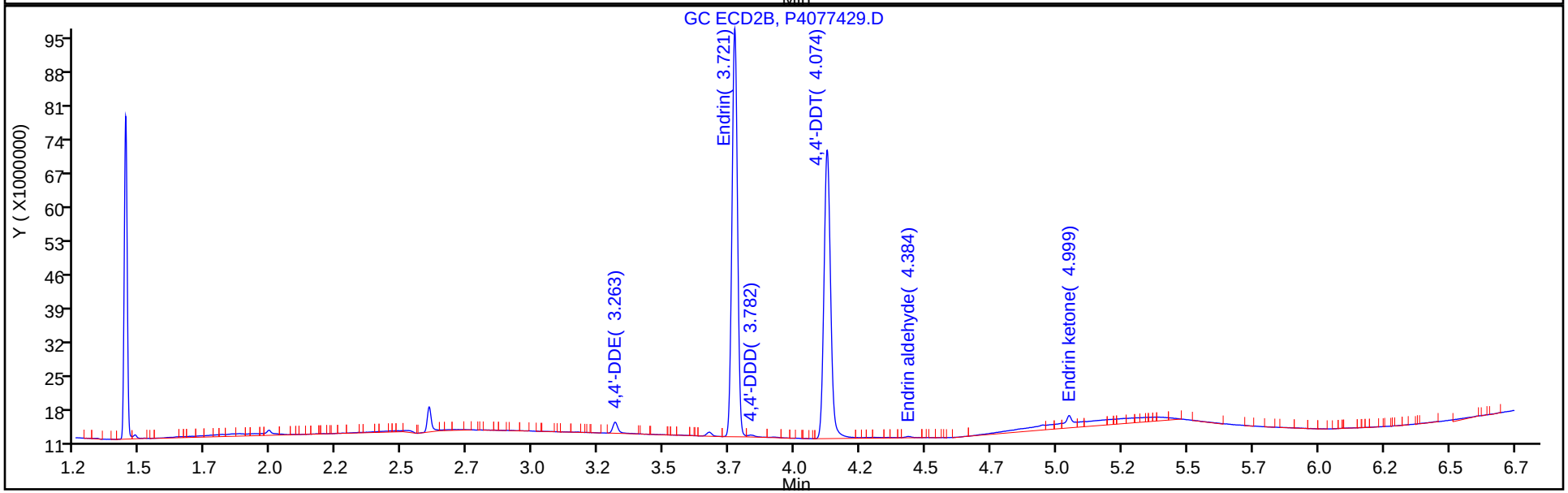
Report Date: 16-Apr-2018 13:27:08 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077429.D

Injection Date:	16-Apr-2018 08:01:37	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	PEM			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077433.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.998	1.040		104	100	4.3	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.8442		114	100	14.4	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077433.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.04	2.02	2.04
DCB Decachlorobiphenyl	6.83	6.72	6.92

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 09:14:54 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.549	1.547	0.002	33693390	100.0	100.0	M
2	1.395	1.396	-0.001	43626154	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.033	0.005	35052054	100.0	104.3	
2	1.715	1.718	-0.003	44319448	100.0	107.3	
						RPD = 2.89	
22 Toxaphene							Ma
1	4.471	4.456	0.015	6085786	1000.0	840.4	M
1	4.944	4.934	0.010	11717942	1000.0	1087.8	M
1	5.012	5.006	0.006	20747698	1000.0	974.2	M
1	5.192	5.184	0.008	13854853	1000.0	1080.0	M
1	5.540	5.536	0.004	10936720	1000.0	1023.2	M
		Average of Peak Amounts =				1001.1	
2	3.750	3.755	-0.005	10236983	1000.0	993.5	M
2	4.300	4.303	-0.003	10876750	1000.0	898.9	M
2	4.525	4.530	-0.005	8661881	1000.0	676.8	M
2	4.636	4.640	-0.004	14777156	1000.0	795.8	M
2	4.722	4.724	-0.002	15659235	1000.0	916.6	M
		Average of Peak Amounts =				856.3	
						RPD = 15.59	
$ 24 DCB Decachlorobiphenyl							M
1	6.832	6.824	0.008	28443624	100.0	114.4	
2	5.724	5.725	-0.001	48378936	100.0	122.4	M
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

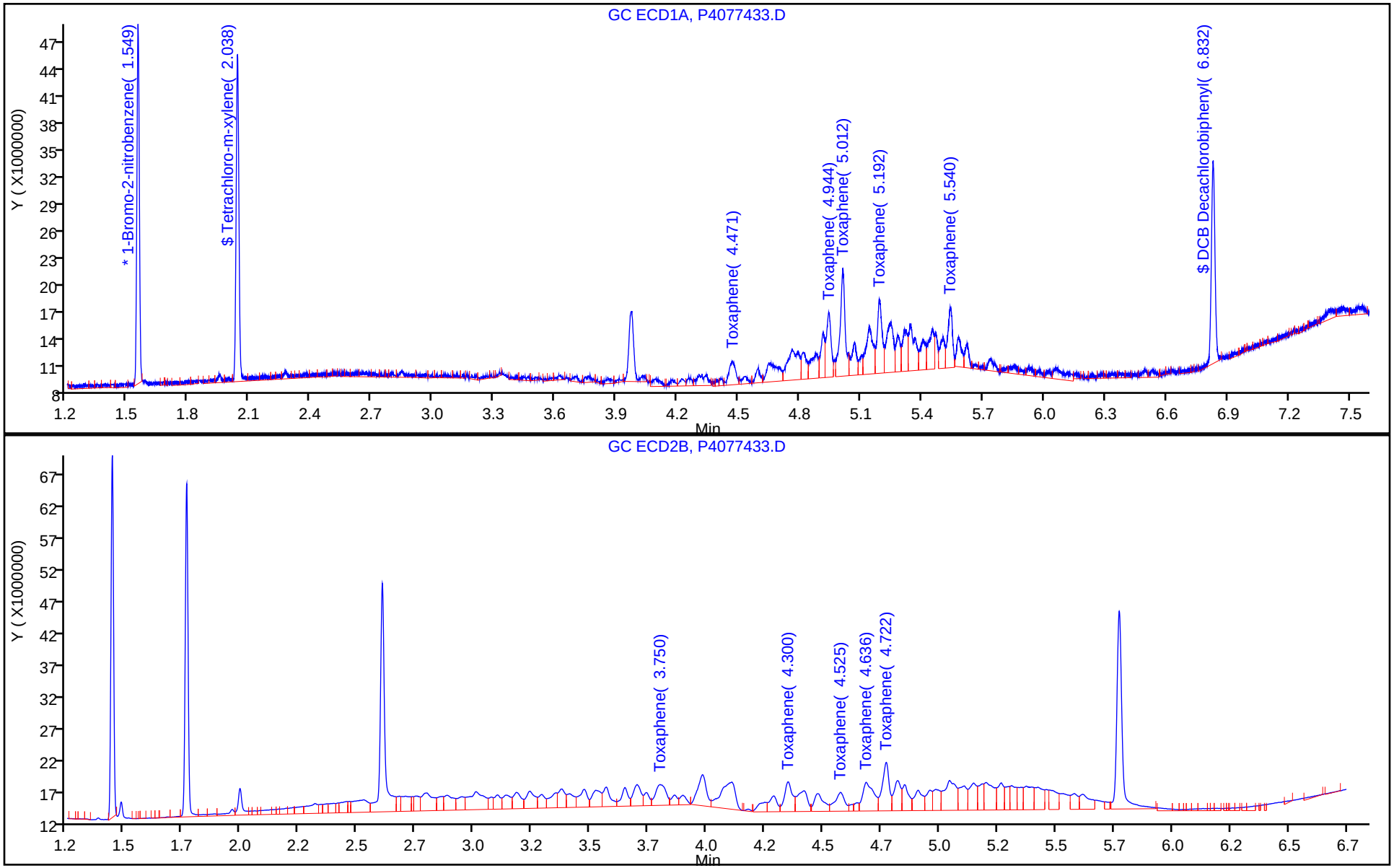
SGTOXL3_00031	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4077433.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0215	0.0181		840	1000	-16.0	20.0
Toxaphene Peak 2	Ave	0.0320	0.0348		1090	1000	8.8	20.0
Toxaphene Peak 3	Ave	0.0632	0.0616		974	1000	-2.6	20.0
Toxaphene Peak 4	Ave	0.0381	0.0411		1080	1000	8.0	20.0
Toxaphene Peak 5	Ave	0.0317	0.0325		1020	1000	2.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4077433.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	4.47	4.45	4.47
Toxaphene Peak 2	4.94	4.92	4.94
Toxaphene Peak 3	5.01	5.00	5.02
Toxaphene Peak 4	5.19	5.17	5.19
Toxaphene Peak 5	5.54	5.53	5.55

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 09:14:54 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.549	1.547	0.002	33693390	100.0	100.0	M
2	1.395	1.396	-0.001	43626154	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.033	0.005	35052054	100.0	104.3	
2	1.715	1.718	-0.003	44319448	100.0	107.3	
						RPD = 2.89	
22 Toxaphene							Ma
1	4.471	4.456	0.015	6085786	1000.0	840.4	M
1	4.944	4.934	0.010	11717942	1000.0	1087.8	M
1	5.012	5.006	0.006	20747698	1000.0	974.2	M
1	5.192	5.184	0.008	13854853	1000.0	1080.0	M
1	5.540	5.536	0.004	10936720	1000.0	1023.2	M
		Average of Peak Amounts =				1001.1	
2	3.750	3.755	-0.005	10236983	1000.0	993.5	M
2	4.300	4.303	-0.003	10876750	1000.0	898.9	M
2	4.525	4.530	-0.005	8661881	1000.0	676.8	M
2	4.636	4.640	-0.004	14777156	1000.0	795.8	M
2	4.722	4.724	-0.002	15659235	1000.0	916.6	M
		Average of Peak Amounts =				856.3	
						RPD = 15.59	
$ 24 DCB Decachlorobiphenyl							M
1	6.832	6.824	0.008	28443624	100.0	114.4	
2	5.724	5.725	-0.001	48378936	100.0	122.4	M
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

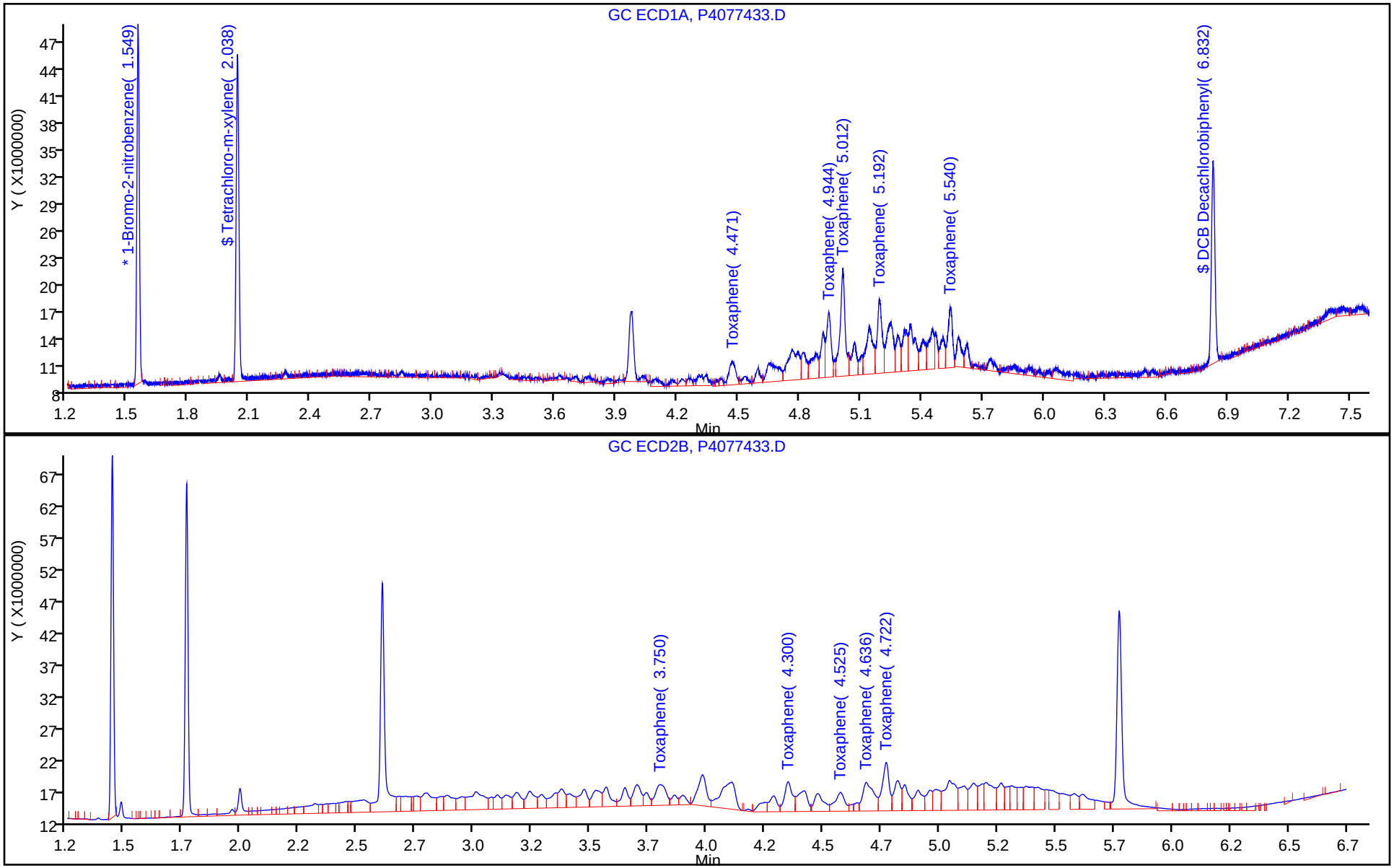
SGTOXL3_00031	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



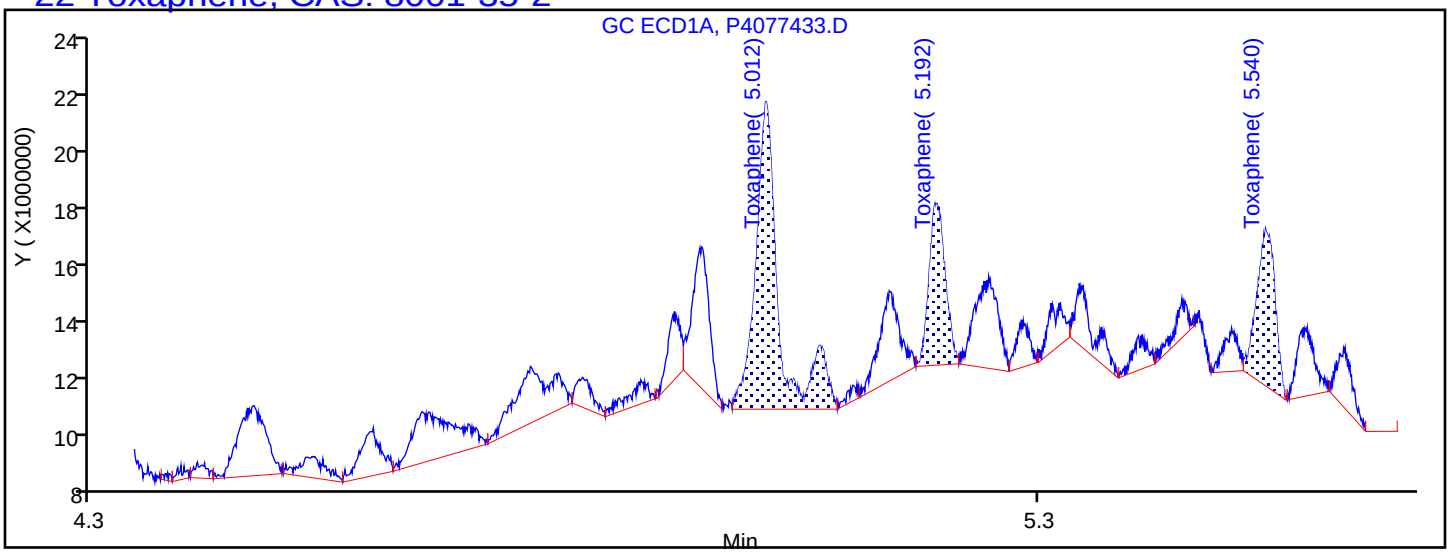
Report Date: 16-Apr-2018 13:27:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

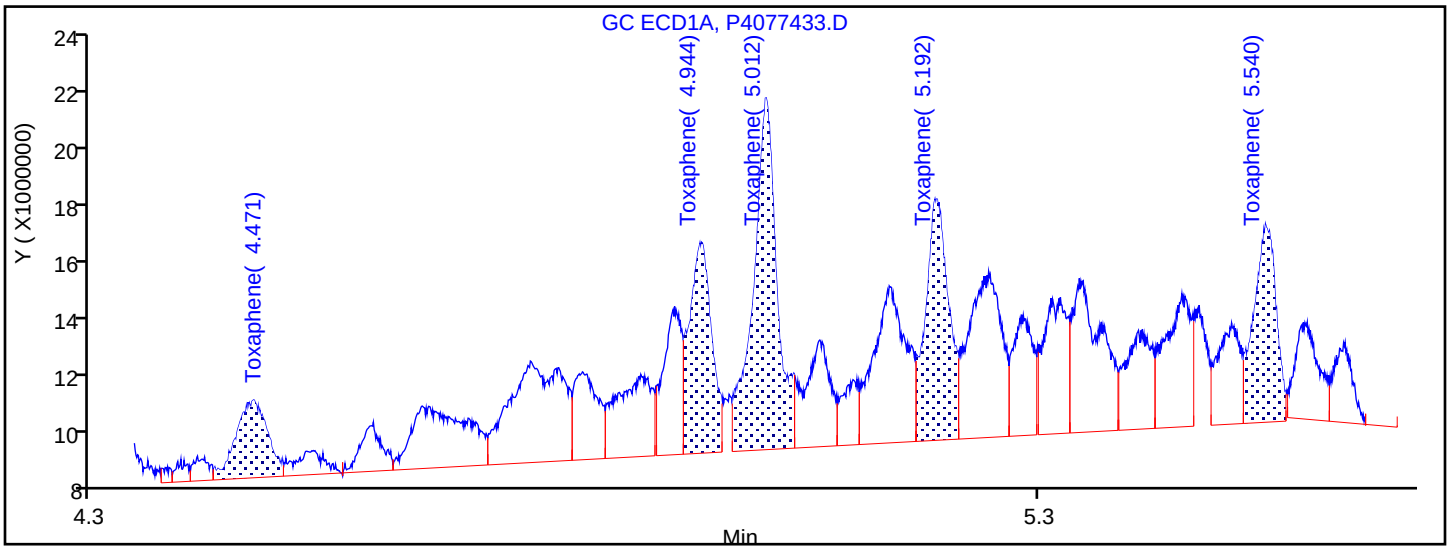
Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4		
Lims ID:	CCV TOX				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD1A		

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

4.456	Response = 0
4.934	Response = 0
5.012	Response = 17258534
5.192	Response = 6451105
5.540	Response = 7024223



Manual Integration Results

4.471	Response = 6085786	M
4.944	Response = 11717942	M
5.012	Response = 20747698	M
5.192	Response = 13854853	M
5.540	Response = 10936720	M

Reviewer: kapoors, 16-Apr-2018 09:33:31

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077433.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.9467	1.016		107	100	7.3	20.0
DCB Decachlorobiphenyl	Ave	0.9059	1.109		122	100	22.4*	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077433.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.72	1.71	1.73
DCB Decachlorobiphenyl	5.72	5.63	5.83

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 09:14:54 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.549	1.547	0.002	33693390	100.0	100.0	M
2	1.395	1.396	-0.001	43626154	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.033	0.005	35052054	100.0	104.3	
2	1.715	1.718	-0.003	44319448	100.0	107.3	
						RPD = 2.89	
22 Toxaphene							Ma
1	4.471	4.456	0.015	6085786	1000.0	840.4	M
1	4.944	4.934	0.010	11717942	1000.0	1087.8	M
1	5.012	5.006	0.006	20747698	1000.0	974.2	M
1	5.192	5.184	0.008	13854853	1000.0	1080.0	M
1	5.540	5.536	0.004	10936720	1000.0	1023.2	M
		Average of Peak Amounts =				1001.1	
2	3.750	3.755	-0.005	10236983	1000.0	993.5	M
2	4.300	4.303	-0.003	10876750	1000.0	898.9	M
2	4.525	4.530	-0.005	8661881	1000.0	676.8	M
2	4.636	4.640	-0.004	14777156	1000.0	795.8	M
2	4.722	4.724	-0.002	15659235	1000.0	916.6	M
		Average of Peak Amounts =				856.3	
						RPD = 15.59	
$ 24 DCB Decachlorobiphenyl							M
1	6.832	6.824	0.008	28443624	100.0	114.4	
2	5.724	5.725	-0.001	48378936	100.0	122.4	M
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

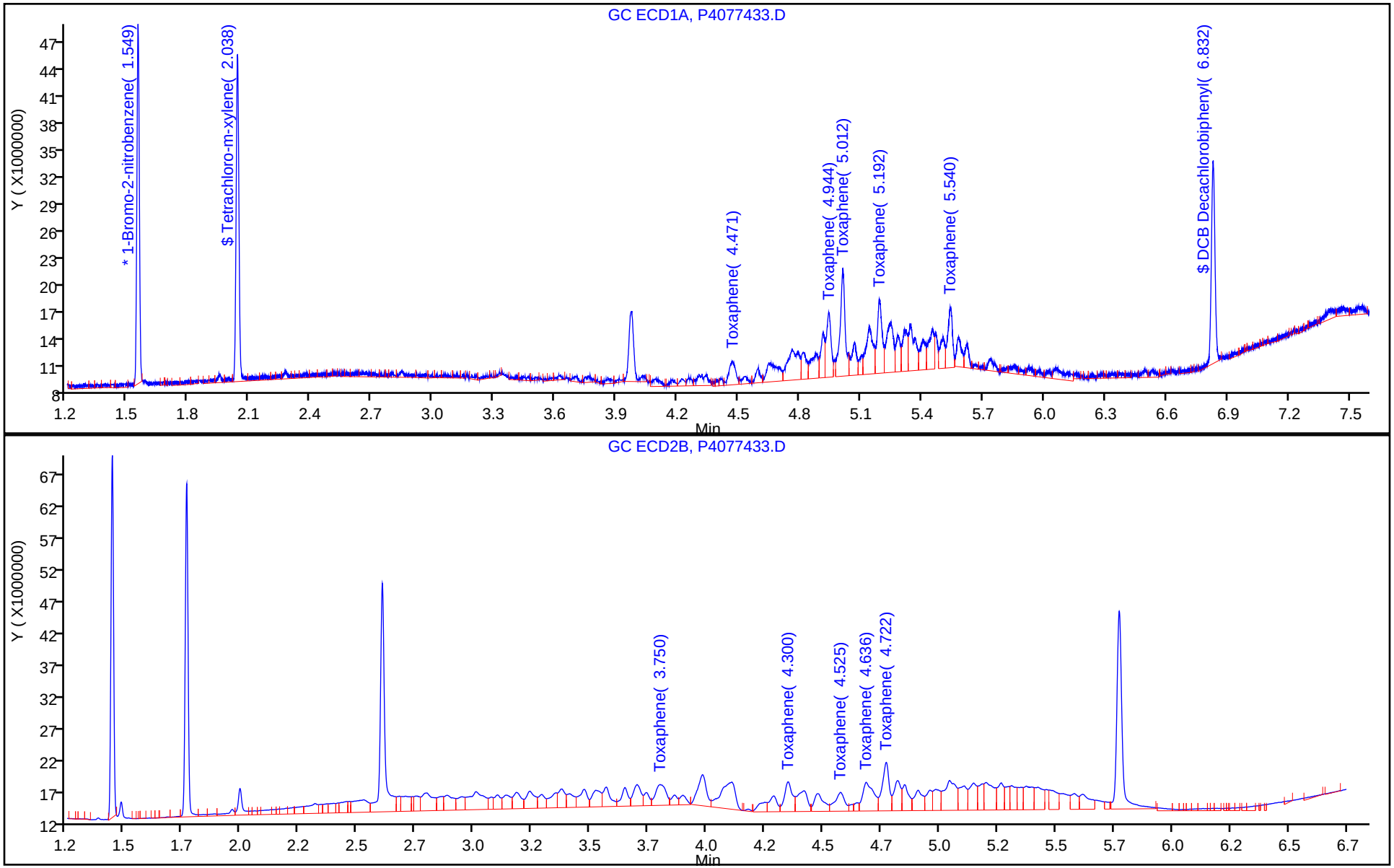
SGTOXL3_00031	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

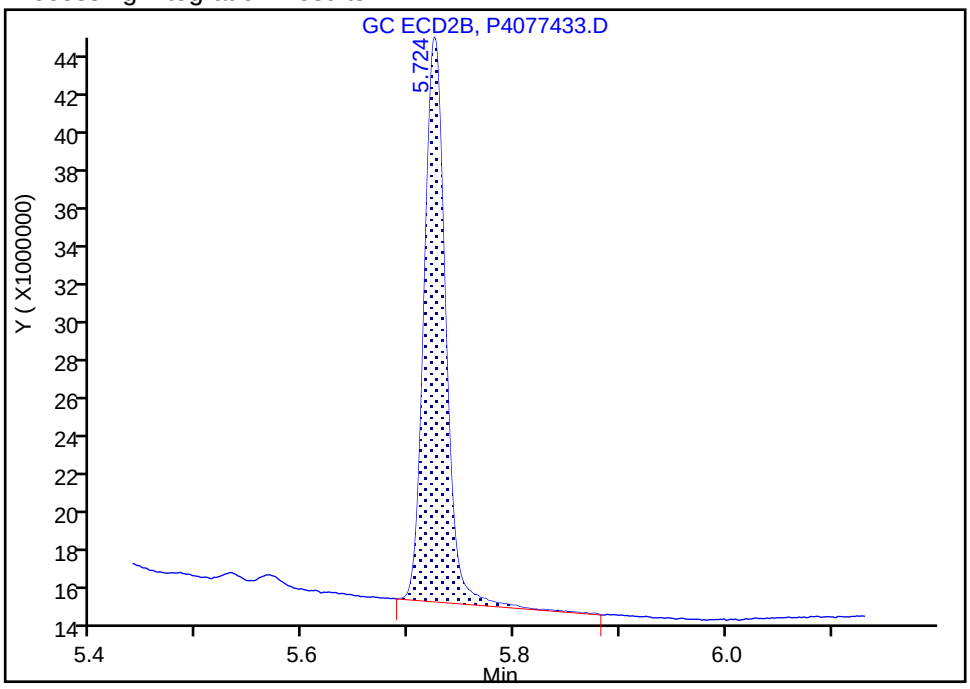
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D
Injection Date: 16-Apr-2018 09:14:54 Instrument ID: CPESTGC4
Lims ID: CCV TOX
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

$ 24 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

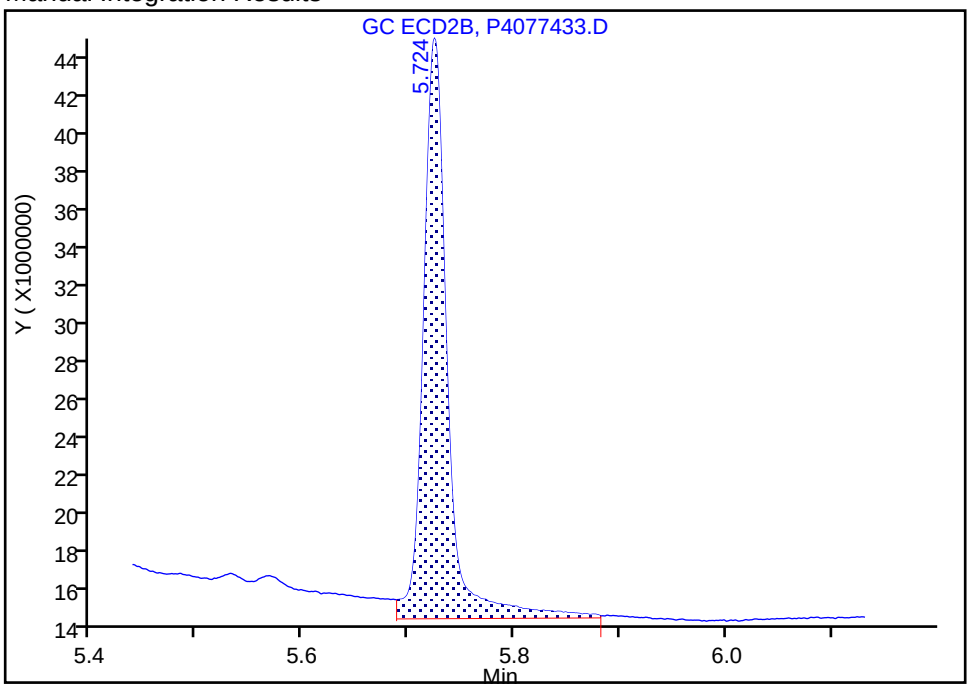
Processing Integration Results

RT: 5.72
Area: 41872659
Amount: 104.0690
Amount Units: ug/l



Manual Integration Results

RT: 5.72
Area: 48378936
Amount: 122.4155
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:33:55
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4077433.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0236	0.0235		993	1000	-0.7	20.0
Toxaphene Peak 2	Ave	0.0277	0.0249		899	1000	-10.1	20.0
Toxaphene Peak 3	Ave	0.0293	0.0199		677	1000	-32.3*	20.0
Toxaphene Peak 4	Ave	0.0426	0.0339		796	1000	-20.4*	20.0
Toxaphene Peak 5	Ave	0.0392	0.0359		917	1000	-8.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511361/6 Calibration Date: 04/16/2018 09:14

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 11:11

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 11:58

Lab File ID: P4077433.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	3.75	3.75	3.77
Toxaphene Peak 2	4.30	4.29	4.31
Toxaphene Peak 3	4.53	4.52	4.54
Toxaphene Peak 4	4.64	4.63	4.65
Toxaphene Peak 5	4.72	4.71	4.73

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D
Lims ID: CCV TOX
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 09:14:54 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub7

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:29 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							M
1	1.549	1.547	0.002	33693390	100.0	100.0	M
2	1.395	1.396	-0.001	43626154	100.0	100.0	M
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.033	0.005	35052054	100.0	104.3	
2	1.715	1.718	-0.003	44319448	100.0	107.3	
						RPD = 2.89	
22 Toxaphene							Ma
1	4.471	4.456	0.015	6085786	1000.0	840.4	M
1	4.944	4.934	0.010	11717942	1000.0	1087.8	M
1	5.012	5.006	0.006	20747698	1000.0	974.2	M
1	5.192	5.184	0.008	13854853	1000.0	1080.0	M
1	5.540	5.536	0.004	10936720	1000.0	1023.2	M
		Average of Peak Amounts =				1001.1	
2	3.750	3.755	-0.005	10236983	1000.0	993.5	M
2	4.300	4.303	-0.003	10876750	1000.0	898.9	M
2	4.525	4.530	-0.005	8661881	1000.0	676.8	M
2	4.636	4.640	-0.004	14777156	1000.0	795.8	M
2	4.722	4.724	-0.002	15659235	1000.0	916.6	M
		Average of Peak Amounts =				856.3	
						RPD = 15.59	
$ 24 DCB Decachlorobiphenyl							M
1	6.832	6.824	0.008	28443624	100.0	114.4	
2	5.724	5.725	-0.001	48378936	100.0	122.4	M
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

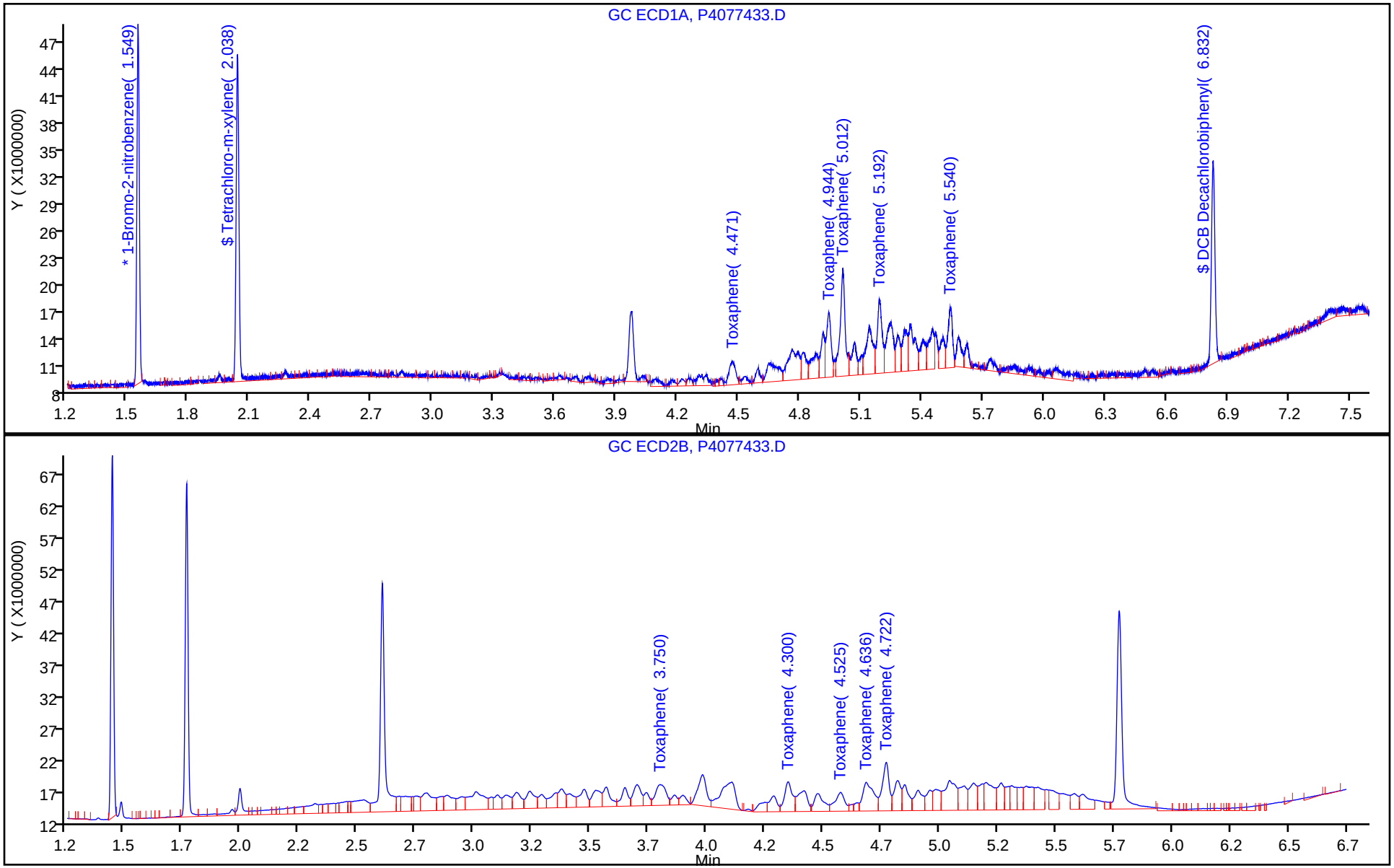
SGTOXL3_00031	Amount Added:	1.00	Units: mL	
SGPESTISTD_00007	Amount Added:	20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCV TOX			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



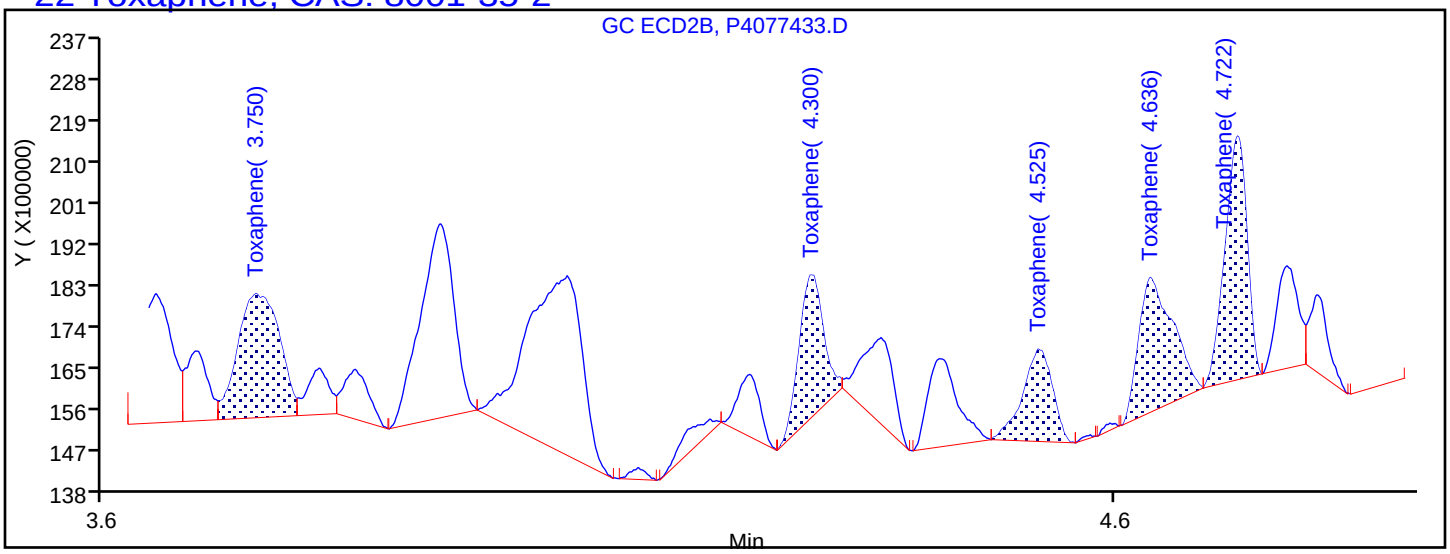
Report Date: 16-Apr-2018 13:27:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077433.D

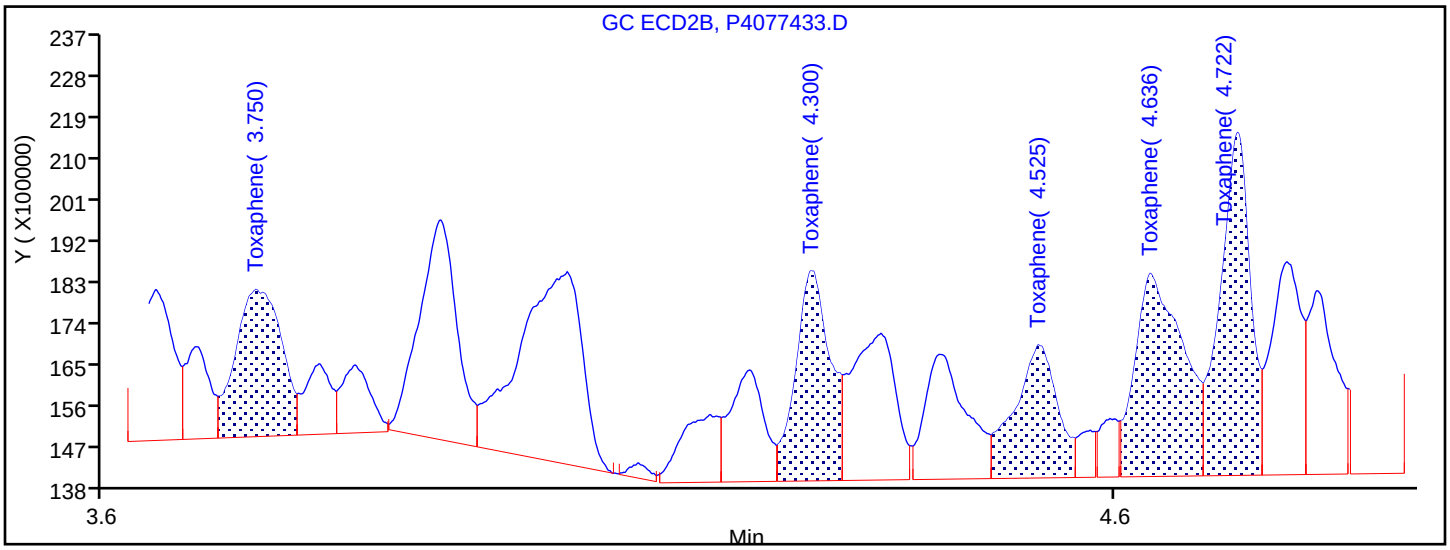
Injection Date:	16-Apr-2018 09:14:54	Instrument ID:	CPESTGC4
Lims ID:	CCV TOX		
Client ID:			
Operator ID:		ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD
Column:		Detector	GC ECD2B

22 Toxaphene, CAS: 8001-35-2



Processing Integration Results

3.750	Response = 7810817
4.300	Response = 5256324
4.525	Response = 4110388
4.636	Response = 6819356
4.722	Response = 8050300



Manual Integration Results

3.750	Response = 10236983	M
4.300	Response = 10876750	M
4.525	Response = 8661881	M
4.636	Response = 14777156	M
4.722	Response = 15659235	M

Reviewer: kapoors, 16-Apr-2018 09:33:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511361/7 Calibration Date: 04/16/2018 09:27

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077434.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.440	1.389		96.4	100	-3.6	20.0
gamma-BHC (Lindane)	Ave	1.337	1.256		94.0	100	-6.0	20.0
beta-BHC	Ave	0.5839	0.5945		102	100	1.8	20.0
delta-BHC	Ave	1.364	1.218		89.3	100	-10.7	20.0
Heptachlor	Ave	1.326	1.244		93.8	100	-6.2	20.0
Aldrin	Ave	1.250	1.157		92.6	100	-7.4	20.0
Heptachlor epoxide	Ave	1.138	1.122		98.6	100	-1.4	20.0
trans-Chlordane	Ave	1.138	1.116		98.0	100	-2.0	20.0
cis-Chlordane	Ave	1.076	1.047		97.3	100	-2.7	20.0
Endosulfan I	Ave	1.043	1.023		98.1	100	-1.9	20.0
4,4'-DDE	Ave	1.075	1.089		101	100	1.3	20.0
Dieldrin	Ave	1.141	1.138		99.7	100	-0.3	20.0
Endrin	Ave	1.009	1.031		102	100	2.2	20.0
4,4'-DDD	Ave	0.8996	0.8711		96.8	100	-3.2	20.0
Endosulfan II	Ave	0.9729	0.9588		98.6	100	-1.4	20.0
4,4'-DDT	Ave	0.9508	0.9647		101	100	1.5	20.0
Endrin aldehyde	Ave	0.8185	0.8002		97.8	100	-2.2	20.0
Endosulfan sulfate	Ave	0.9396	0.9699		103	100	3.2	20.0
Methoxychlor	Ave	0.5189	0.5364		103	100	3.4	20.0
Mirex	Ave	0.6647	0.6678		100	100	0.5	20.0
Endrin ketone	Ave	1.058	1.036		97.9	100	-2.1	20.0
Tetrachloro-m-xylene	Ave	0.998	0.9447		94.7	100	-5.3	20.0
DCB Decachlorobiphenyl	Ave	0.7382	0.7501		102	100	1.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511361/7 Calibration Date: 04/16/2018 09:27

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077434.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.42	2.41	2.43
gamma-BHC (Lindane)	2.65	2.64	2.66
beta-BHC	2.70	2.69	2.71
delta-BHC	2.92	2.91	2.93
Heptachlor	2.98	2.97	2.99
Aldrin	3.24	3.23	3.25
Heptachlor epoxide	3.76	3.75	3.77
trans-Chlordane	3.95	3.94	3.96
cis-Chlordane	4.11	4.10	4.12
Endosulfan I	4.19	4.18	4.20
4,4'-DDE	4.29	4.28	4.30
Dieldrin	4.49	4.48	4.50
Endrin	4.78	4.77	4.79
4,4'-DDD	4.86	4.85	4.87
Endosulfan II	4.95	4.94	4.96
4,4'-DDT	5.09	5.08	5.10
Endrin aldehyde	5.18	5.17	5.19
Endosulfan sulfate	5.37	5.36	5.38
Methoxychlor	5.57	5.56	5.58
Mirex	5.73	5.66	5.80
Endrin ketone	5.76	5.69	5.83
Tetrachloro-m-xylene	2.03	2.02	2.04
DCB Decachlorobiphenyl	6.82	6.72	6.92

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Apr-2018 09:27:23 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:49:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.547	1.547	0.000	40158914	100.0	100.0	
2	1.396	1.396	0.000	51820058	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.033	2.033	0.000	37939140	100.0	94.7	
2	1.718	1.718	0.000	48696093	100.0	99.3	
						RPD = 4.73	
15 alpha-BHC							
1	2.417	2.417	0.000	55776341	100.0	96.4	
2	2.000	2.000	0.000	73306447	100.0	102.6	
						RPD = 6.23	
2 gamma-BHC (Lindane)							
1	2.653	2.653	0.000	50451769	100.0	94.0	
2	2.174	2.174	0.000	65598984	100.0	100.6	
						RPD = 6.82	
6 beta-BHC							
1	2.699	2.699	0.000	23873063	100.0	101.8	
2	2.218	2.218	0.000	29096875	100.0	103.0	
						RPD = 1.12	
32 delta-BHC							
1	2.918	2.918	0.000	48894389	100.0	89.3	
2	2.324	2.324	0.000	65107232	100.0	100.0	
						RPD = 11.31	
18 Heptachlor							
1	2.982	2.982	0.000	49967468	100.0	93.8	
2	2.451	2.451	0.000	64236593	100.0	100.4	
						RPD = 6.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.244	3.244	0.000	46462062	100.0	92.6	
2	2.633	2.633	0.000	59498798	100.0	100.5	
						RPD = 8.19	
12 Heptachlor epoxide							
1	3.757	3.757	0.000	45045091	100.0	98.6	
2	3.026	3.026	0.000	53302748	100.0	95.4	
						RPD = 3.24	
9 trans-Chlordane							
1	3.954	3.954	0.000	44816034	100.0	98.0	
2	3.115	3.115	0.000	52902495	100.0	95.3	
						RPD = 2.82	
23 cis-Chlordane							M
1	4.114	4.114	0.000	42054697	100.0	97.3	
2	3.214	3.214	0.000	51129803	100.0	94.7	M
						RPD = 2.65	
7 Endosulfan I							M
1	4.187	4.187	0.000	41089492	100.0	98.1	
2	3.322	3.322	0.000	53077517	100.0	100.8	M
						RPD = 2.68	
25 4,4'-DDE							M
1	4.290	4.290	0.000	43737380	100.0	101.3	
2	3.270	3.270	0.000	50443922	100.0	94.2	M
						RPD = 7.33	
30 Dieldrin							M
1	4.486	4.486	0.000	45681200	100.0	99.7	
2	3.520	3.520	0.000	56010023	100.0	96.3	M
						RPD = 3.50	
20 Endrin							M
1	4.784	4.784	0.000	41415496	100.0	102.2	
2	3.729	3.729	0.000	52118412	100.0	96.8	M
						RPD = 5.35	
16 4,4'-DDD							M
1	4.864	4.864	0.000	34982447	100.0	96.8	
2	3.792	3.792	0.000	41016654	100.0	87.8	M
						RPD = 9.80	
11 Endosulfan II							M
1	4.946	4.946	0.000	38504169	100.0	98.6	
2	3.948	3.948	0.000	48104611	100.0	94.6	M
						RPD = 4.05	
21 4,4'-DDT							M
1	5.092	5.092	0.000	38739130	100.0	101.5	
2	4.084	4.084	0.000	46777116	100.0	96.5	M
						RPD = 4.96	
5 Endrin aldehyde							
1	5.179	5.179	0.000	32134690	100.0	97.8	
2	4.393	4.393	0.000	39520472	100.0	93.2	
						RPD = 4.76	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.367	5.367	0.000	38951008	100.0	103.2	
2	4.805	4.805	0.000	45290779	100.0	87.3	M
						RPD = 16.68	
10 Methoxychlor							M
1	5.574	5.574	0.000	21541385	100.0	103.4	
2	4.618	4.618	0.000	23118007	100.0	85.2	M
						RPD = 19.32	
34 Mirex							M
1	5.732	5.732	0.000	26817284	100.0	100.5	
2	4.724	4.724	0.000	33672628	100.0	90.4	M
						RPD = 10.50	
13 Endrin ketone							M
1	5.764	5.764	0.000	41605077	100.0	97.9	
2	5.004	5.004	0.000	53239554	100.0	90.8	M
						RPD = 7.54	
$ 24 DCB Decachlorobiphenyl							
1	6.824	6.824	0.000	30123512	100.0	101.6	
2	5.725	5.725	0.000	46477015	100.0	99.0	
						RPD = 2.60	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

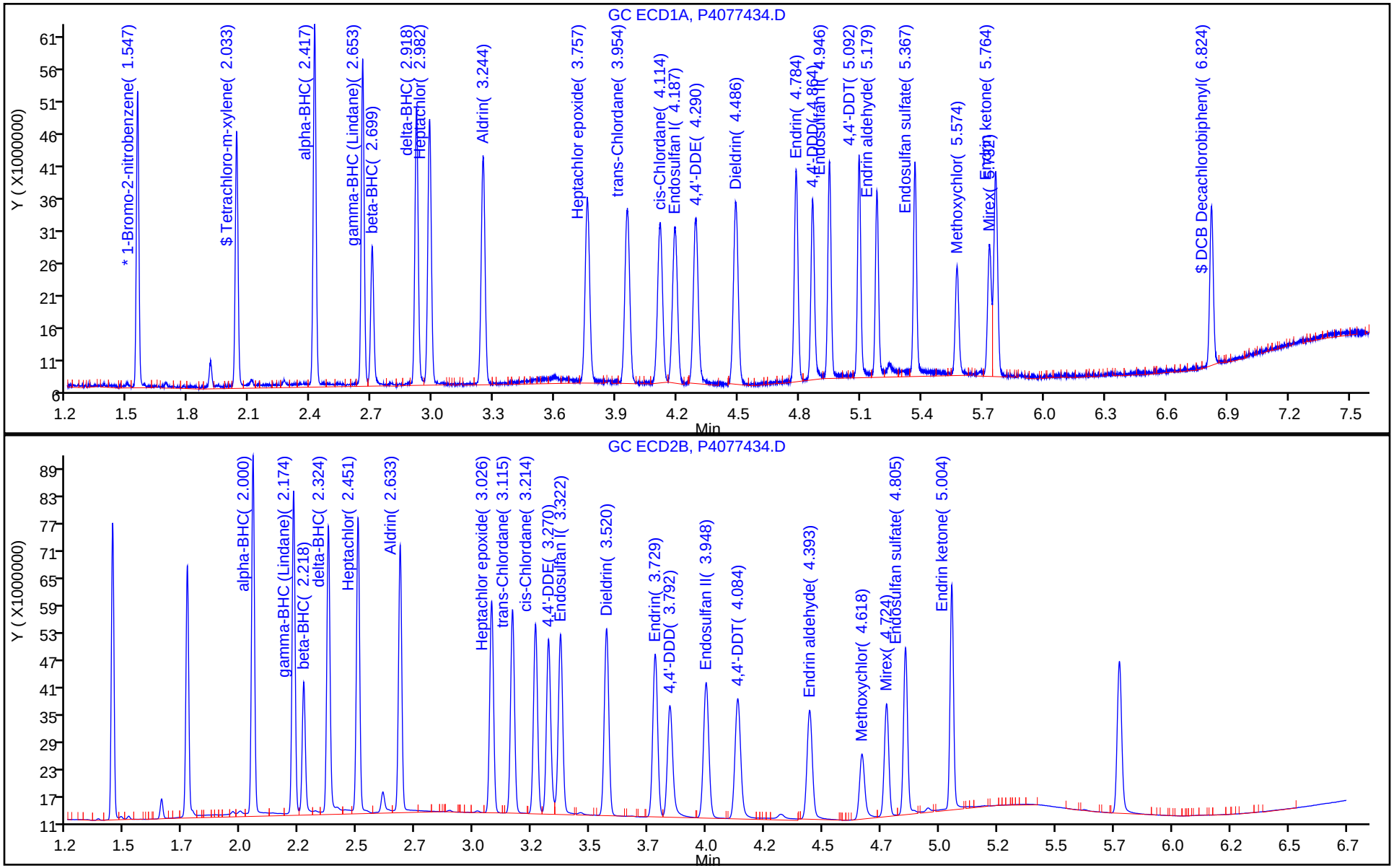
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D

Injection Date:	16-Apr-2018 09:27:23	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511361/7 Calibration Date: 04/16/2018 09:27

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077434.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.378	1.415		103	100	2.6	20.0
gamma-BHC (Lindane)	Ave	1.258	1.266		101	100	0.6	20.0
beta-BHC	Ave	0.5453	0.5615		103	100	3.0	20.0
delta-BHC	Ave	1.257	1.256		100	100	-0.0	20.0
Heptachlor	Ave	1.235	1.240		100	100	0.4	20.0
Aldrin	Ave	1.143	1.148		100	100	0.5	20.0
Heptachlor epoxide	Ave	1.078	1.029		95.4	100	-4.6	20.0
trans-Chlordane	Ave	1.071	1.021		95.3	100	-4.7	20.0
cis-Chlordane	Ave	1.041	0.9867		94.7	100	-5.3	20.0
4,4'-DDE	Ave	1.034	0.9734		94.2	100	-5.8	20.0
Endosulfan I	Ave	1.016	1.024		101	100	0.8	20.0
Dieldrin	Ave	1.123	1.081		96.3	100	-3.7	20.0
Endrin	Ave	1.039	1.006		96.8	100	-3.2	20.0
4,4'-DDD	Ave	0.9016	0.7915		87.8	100	-12.2	20.0
Endosulfan II	Ave	0.9809	0.9283		94.6	100	-5.4	20.0
4,4'-DDT	Ave	0.9350	0.9027		96.5	100	-3.5	20.0
Endrin aldehyde	Ave	0.8182	0.7627		93.2	100	-6.8	20.0
Methoxychlor	Ave	0.5238	0.4461		85.2	100	-14.8	20.0
Mirex	Ave	0.7185	0.6498		90.4	100	-9.6	20.0
Endosulfan sulfate	Ave	1.001	0.8740		87.3	100	-12.7	20.0
Endrin ketone	Ave	1.132	1.027		90.8	100	-9.2	20.0
Tetrachloro-m-xylene	Ave	0.9467	0.9397		99.3	100	-0.7	20.0
DCB Decachlorobiphenyl	Ave	0.9059	0.8969		99.0	100	-1.0	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCVIS 460-511361/7 Calibration Date: 04/16/2018 09:27

Instrument ID: CPESTGC4 Calib Start Date: 09/27/2017 08:22

GC Column: Rtx-CLP ID: 0.53(mm) Calib End Date: 09/27/2017 09:10

Lab File ID: P4077434.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.00	1.99	2.01
gamma-BHC (Lindane)	2.17	2.16	2.18
beta-BHC	2.22	2.21	2.23
delta-BHC	2.32	2.31	2.33
Heptachlor	2.45	2.44	2.46
Aldrin	2.63	2.62	2.64
Heptachlor epoxide	3.03	3.02	3.04
trans-Chlordane	3.12	3.11	3.13
cis-Chlordane	3.21	3.20	3.22
4,4'-DDE	3.27	3.26	3.28
Endosulfan I	3.32	3.31	3.33
Dieldrin	3.52	3.51	3.53
Endrin	3.73	3.72	3.74
4,4'-DDD	3.79	3.78	3.80
Endosulfan II	3.95	3.94	3.96
4,4'-DDT	4.08	4.07	4.09
Endrin aldehyde	4.39	4.38	4.40
Methoxychlor	4.62	4.61	4.63
Mirex	4.72	4.65	4.79
Endosulfan sulfate	4.81	4.80	4.82
Endrin ketone	5.00	4.93	5.07
Tetrachloro-m-xylene	1.72	1.71	1.73
DCB Decachlorobiphenyl	5.73	5.63	5.83

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Apr-2018 09:27:23 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4
Sublist: chrom-GC-4 8081 ISTD*sub15

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 09:49:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.547	1.547	0.000	40158914	100.0	100.0	
2	1.396	1.396	0.000	51820058	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.033	2.033	0.000	37939140	100.0	94.7	
2	1.718	1.718	0.000	48696093	100.0	99.3	
						RPD = 4.73	
15 alpha-BHC							
1	2.417	2.417	0.000	55776341	100.0	96.4	
2	2.000	2.000	0.000	73306447	100.0	102.6	
						RPD = 6.23	
2 gamma-BHC (Lindane)							
1	2.653	2.653	0.000	50451769	100.0	94.0	
2	2.174	2.174	0.000	65598984	100.0	100.6	
						RPD = 6.82	
6 beta-BHC							
1	2.699	2.699	0.000	23873063	100.0	101.8	
2	2.218	2.218	0.000	29096875	100.0	103.0	
						RPD = 1.12	
32 delta-BHC							
1	2.918	2.918	0.000	48894389	100.0	89.3	
2	2.324	2.324	0.000	65107232	100.0	100.0	
						RPD = 11.31	
18 Heptachlor							
1	2.982	2.982	0.000	49967468	100.0	93.8	
2	2.451	2.451	0.000	64236593	100.0	100.4	
						RPD = 6.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Aldrin							
1	3.244	3.244	0.000	46462062	100.0	92.6	
2	2.633	2.633	0.000	59498798	100.0	100.5	
						RPD = 8.19	
12 Heptachlor epoxide							
1	3.757	3.757	0.000	45045091	100.0	98.6	
2	3.026	3.026	0.000	53302748	100.0	95.4	
						RPD = 3.24	
9 trans-Chlordane							
1	3.954	3.954	0.000	44816034	100.0	98.0	
2	3.115	3.115	0.000	52902495	100.0	95.3	
						RPD = 2.82	
23 cis-Chlordane							M
1	4.114	4.114	0.000	42054697	100.0	97.3	
2	3.214	3.214	0.000	51129803	100.0	94.7	M
						RPD = 2.65	
7 Endosulfan I							M
1	4.187	4.187	0.000	41089492	100.0	98.1	
2	3.322	3.322	0.000	53077517	100.0	100.8	M
						RPD = 2.68	
25 4,4'-DDE							M
1	4.290	4.290	0.000	43737380	100.0	101.3	
2	3.270	3.270	0.000	50443922	100.0	94.2	M
						RPD = 7.33	
30 Dieldrin							M
1	4.486	4.486	0.000	45681200	100.0	99.7	
2	3.520	3.520	0.000	56010023	100.0	96.3	M
						RPD = 3.50	
20 Endrin							M
1	4.784	4.784	0.000	41415496	100.0	102.2	
2	3.729	3.729	0.000	52118412	100.0	96.8	M
						RPD = 5.35	
16 4,4'-DDD							M
1	4.864	4.864	0.000	34982447	100.0	96.8	
2	3.792	3.792	0.000	41016654	100.0	87.8	M
						RPD = 9.80	
11 Endosulfan II							M
1	4.946	4.946	0.000	38504169	100.0	98.6	
2	3.948	3.948	0.000	48104611	100.0	94.6	M
						RPD = 4.05	
21 4,4'-DDT							M
1	5.092	5.092	0.000	38739130	100.0	101.5	
2	4.084	4.084	0.000	46777116	100.0	96.5	M
						RPD = 4.96	
5 Endrin aldehyde							
1	5.179	5.179	0.000	32134690	100.0	97.8	
2	4.393	4.393	0.000	39520472	100.0	93.2	
						RPD = 4.76	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Endosulfan sulfate							M
1	5.367	5.367	0.000	38951008	100.0	103.2	
2	4.805	4.805	0.000	45290779	100.0	87.3	M
						RPD = 16.68	
10 Methoxychlor							M
1	5.574	5.574	0.000	21541385	100.0	103.4	
2	4.618	4.618	0.000	23118007	100.0	85.2	M
						RPD = 19.32	
34 Mirex							M
1	5.732	5.732	0.000	26817284	100.0	100.5	
2	4.724	4.724	0.000	33672628	100.0	90.4	M
						RPD = 10.50	
13 Endrin ketone							M
1	5.764	5.764	0.000	41605077	100.0	97.9	
2	5.004	5.004	0.000	53239554	100.0	90.8	M
						RPD = 7.54	
$ 24 DCB Decachlorobiphenyl							
1	6.824	6.824	0.000	30123512	100.0	101.6	
2	5.725	5.725	0.000	46477015	100.0	99.0	
						RPD = 2.60	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

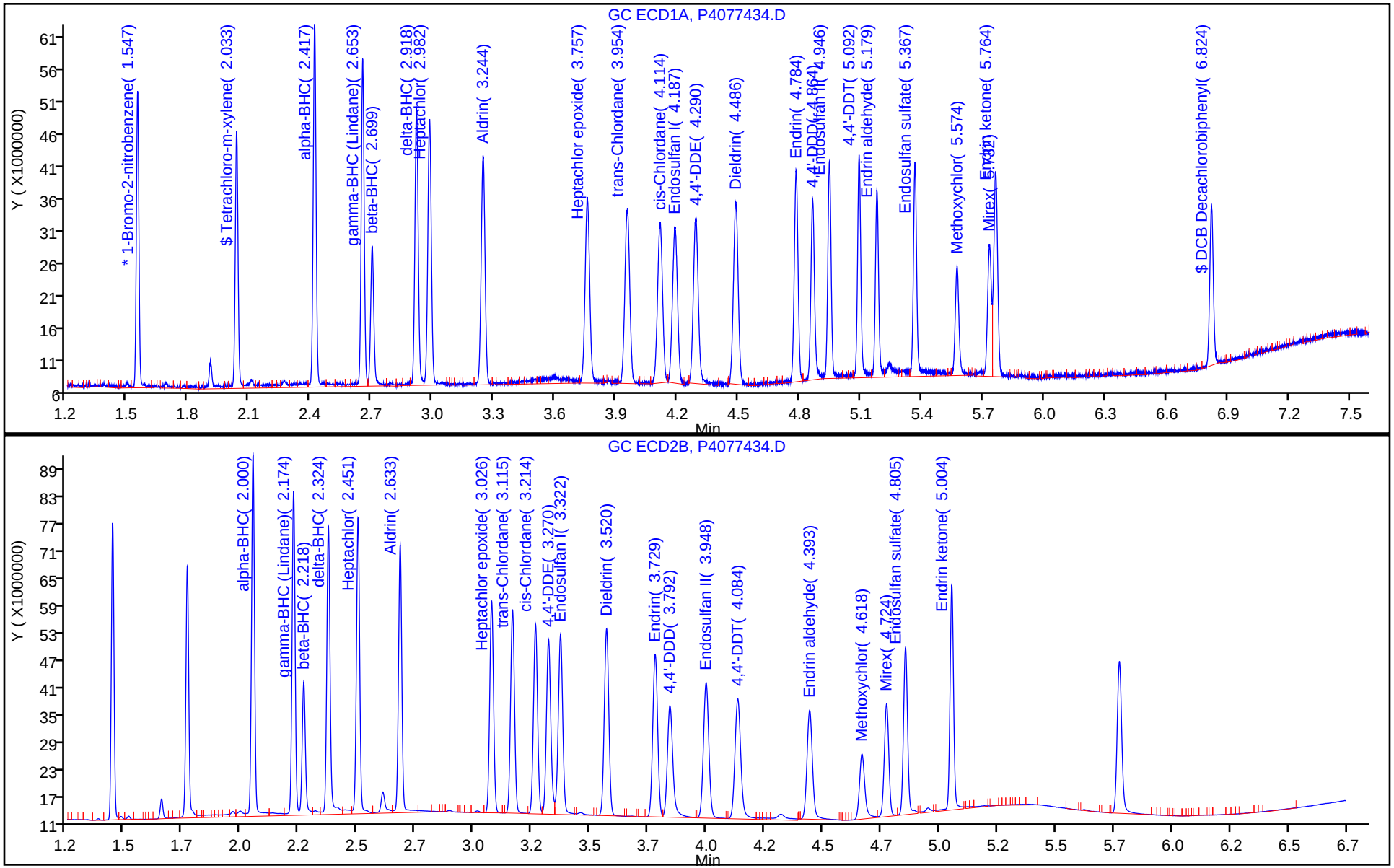
SGPESTL3_00030	Amount Added: 1.00	Units: mL	
SGPESTISTD_00007	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Apr-2018 13:27:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D

Injection Date:	16-Apr-2018 09:27:23	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



Manual Integration/User Assign Peak Report

TestAmerica Edison

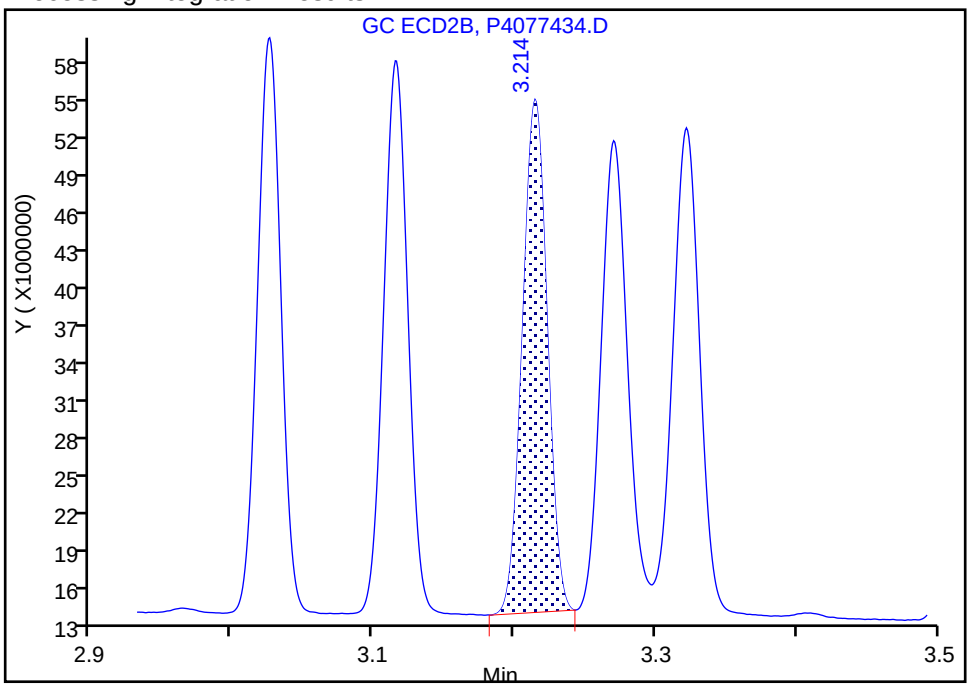
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

23 cis-Chlordane, CAS: 5103-71-9

Signal: 2

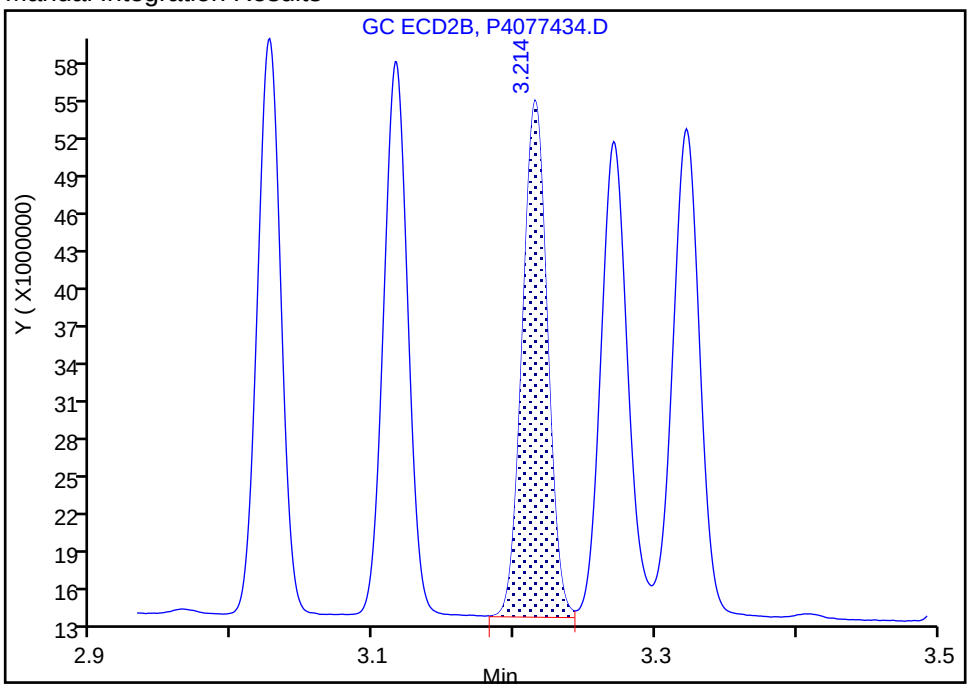
Processing Integration Results

RT: 3.21
Area: 50066799
Amount: 92.770355
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 51129803
Amount: 94.740028
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

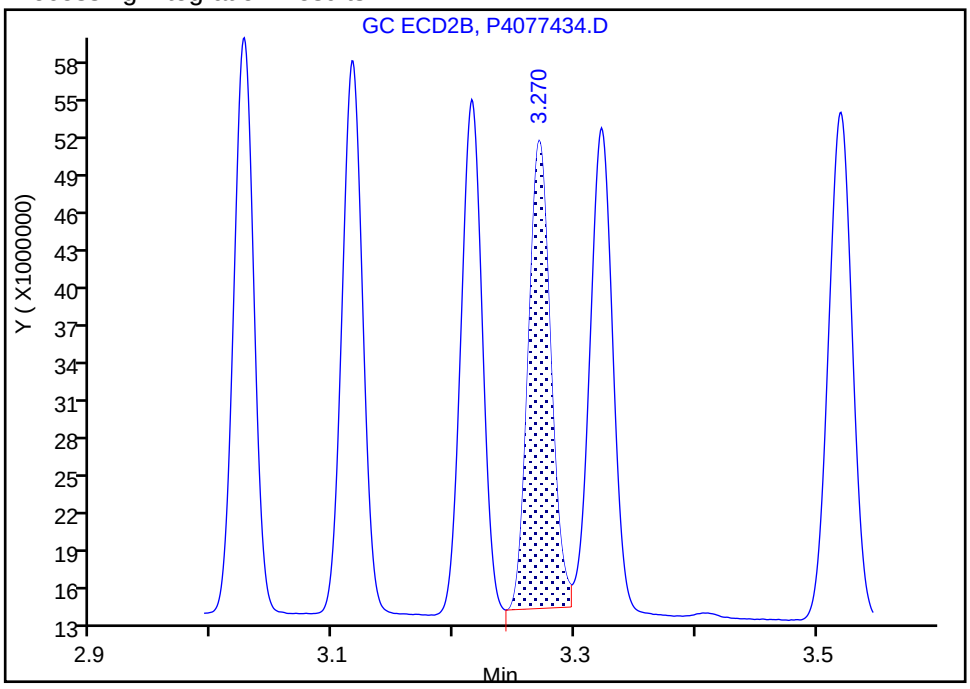
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

25 4,4'-DDE, CAS: 72-55-9

Signal: 2

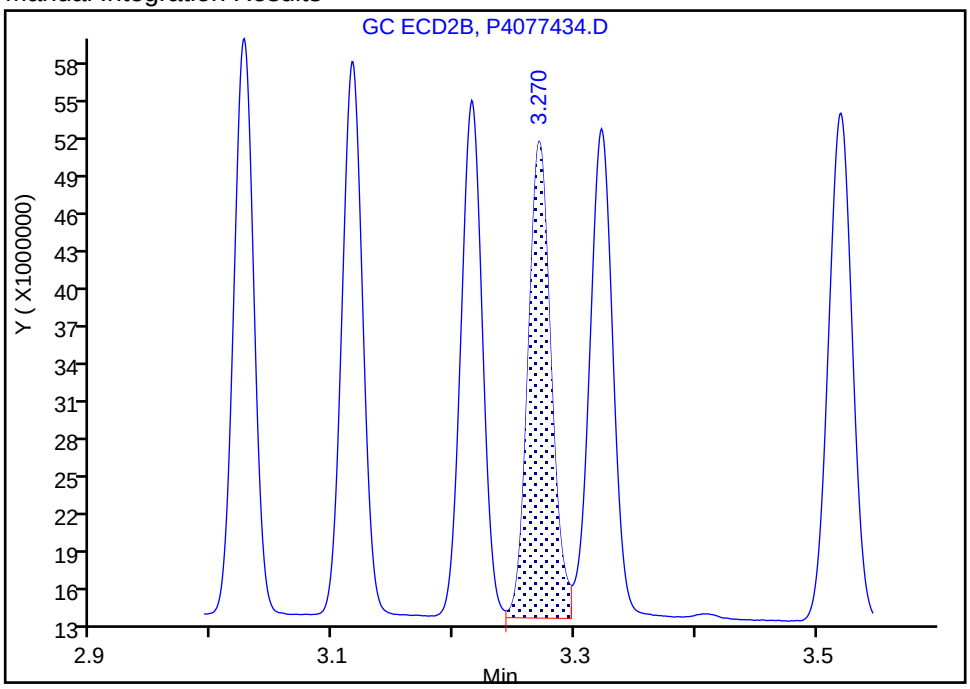
Processing Integration Results

RT: 3.27
Area: 48194108
Amount: 89.973469
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 50443922
Amount: 94.173642
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison

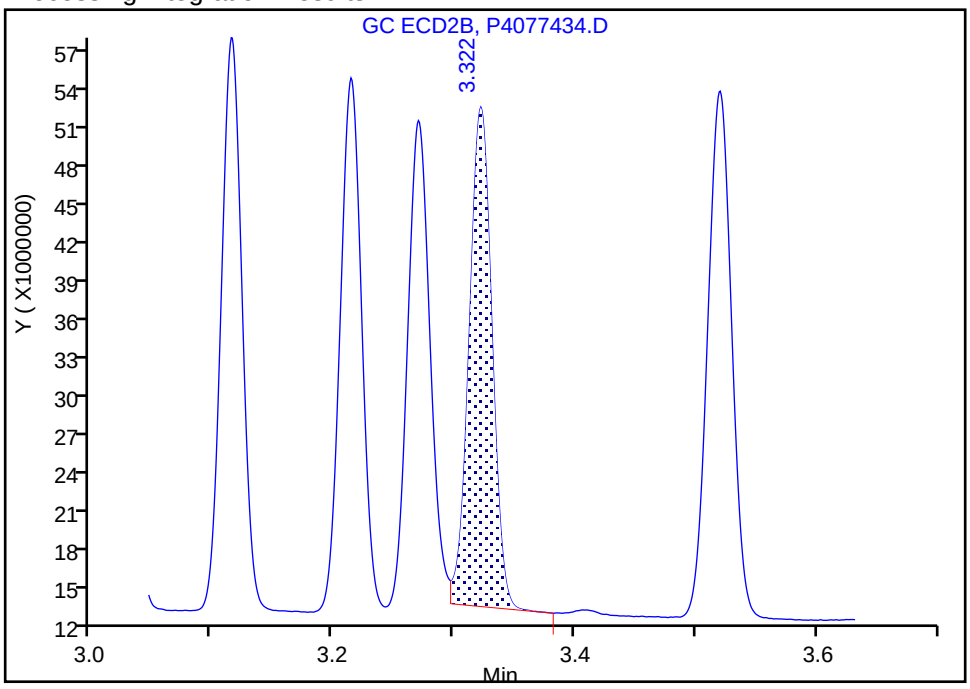
Data File:	\\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D				
Injection Date:	16-Apr-2018 09:27:23	Instrument ID:	CPESTGC4		
Lims ID:	CCVIS				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		
Column:		Detector	GC ECD2B		

7 Endosulfan I, CAS: 959-98-8

Signal: 2

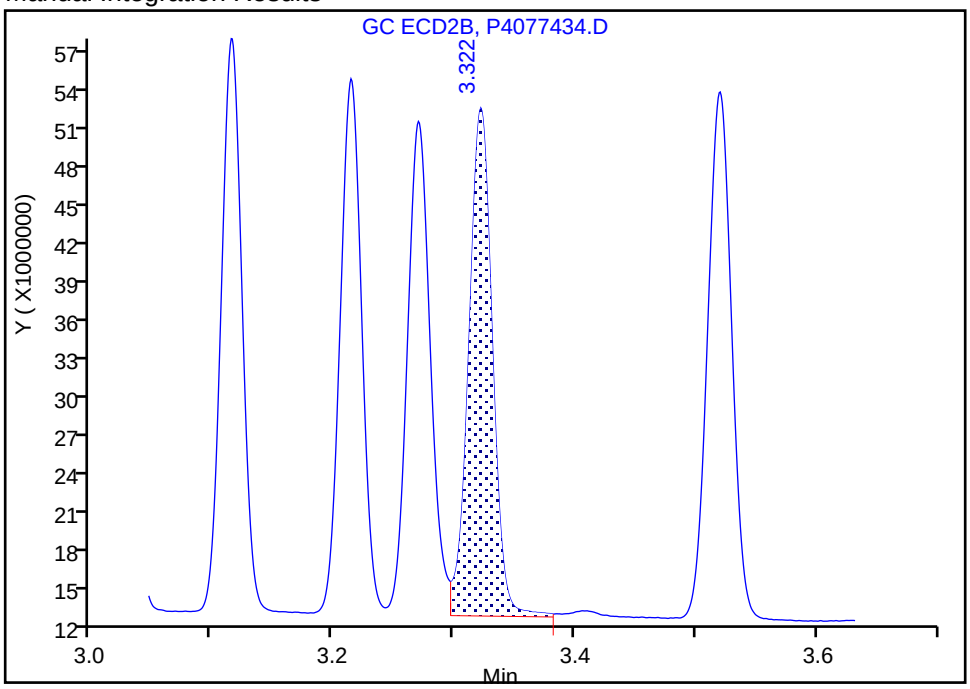
Processing Integration Results

RT: 3.32
Area: 50353278
Amount: 95.594600
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 53077517
Amount: 100.7665
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

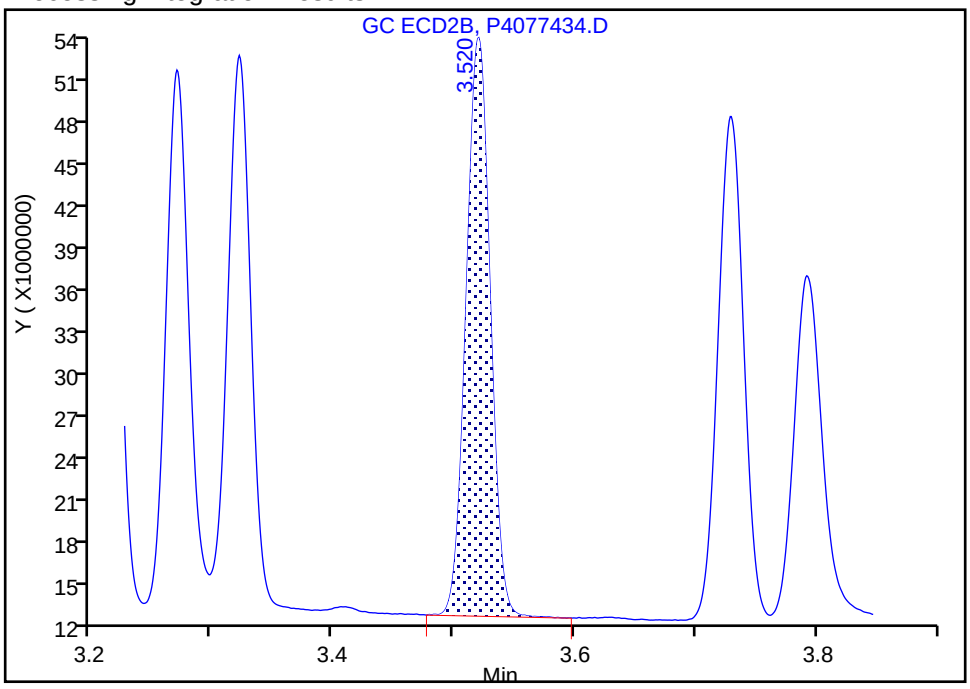
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

30 Dieldrin, CAS: 60-57-1

Signal: 2

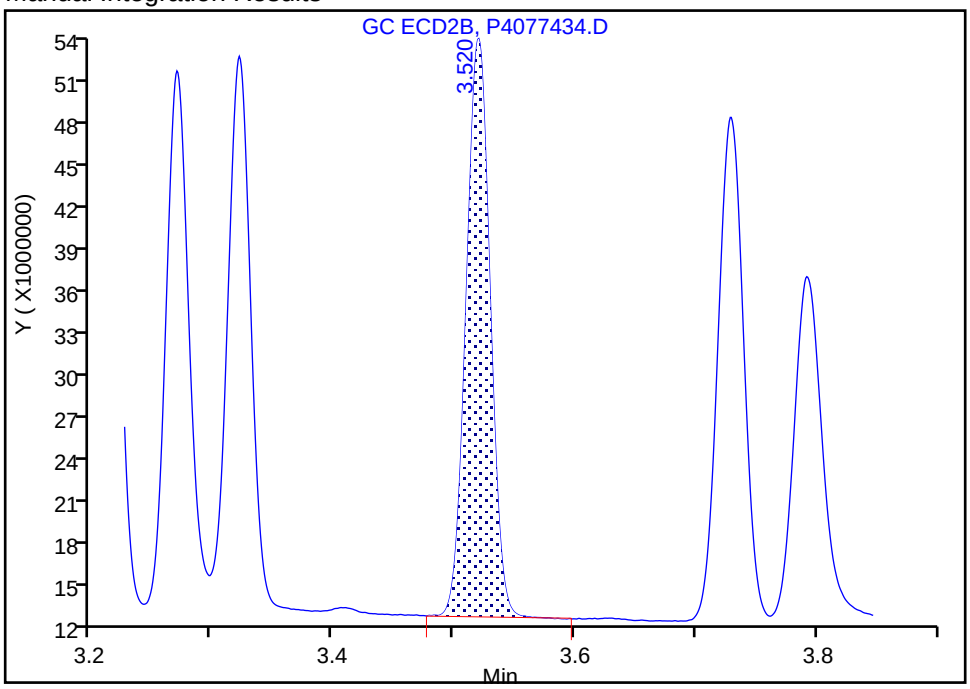
Processing Integration Results

RT: 3.52
Area: 56193267
Amount: 96.579787
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 56010023
Amount: 96.264845
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Edison

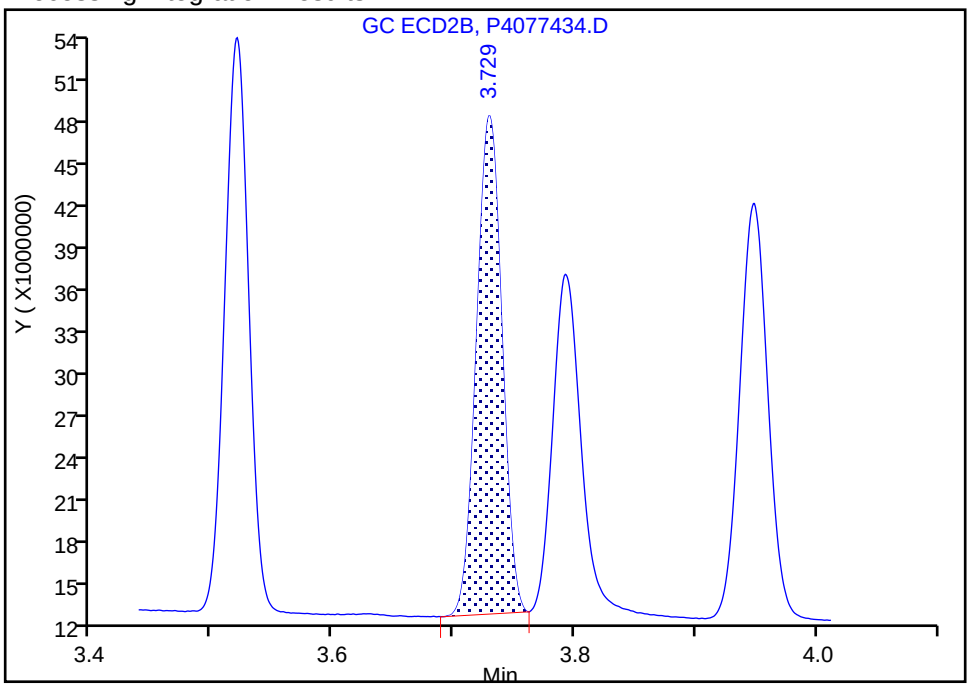
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

20 Endrin, CAS: 72-20-8

Signal: 2

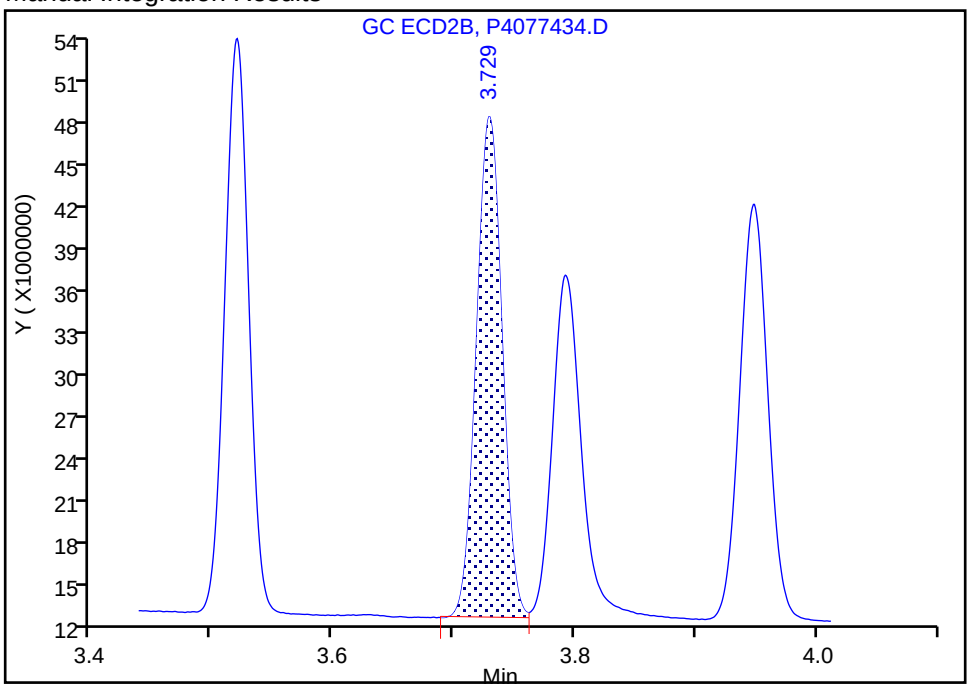
Processing Integration Results

RT: 3.73
Area: 51549723
Amount: 95.780293
Amount Units: ug/l



Manual Integration Results

RT: 3.73
Area: 52118412
Amount: 96.836927
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

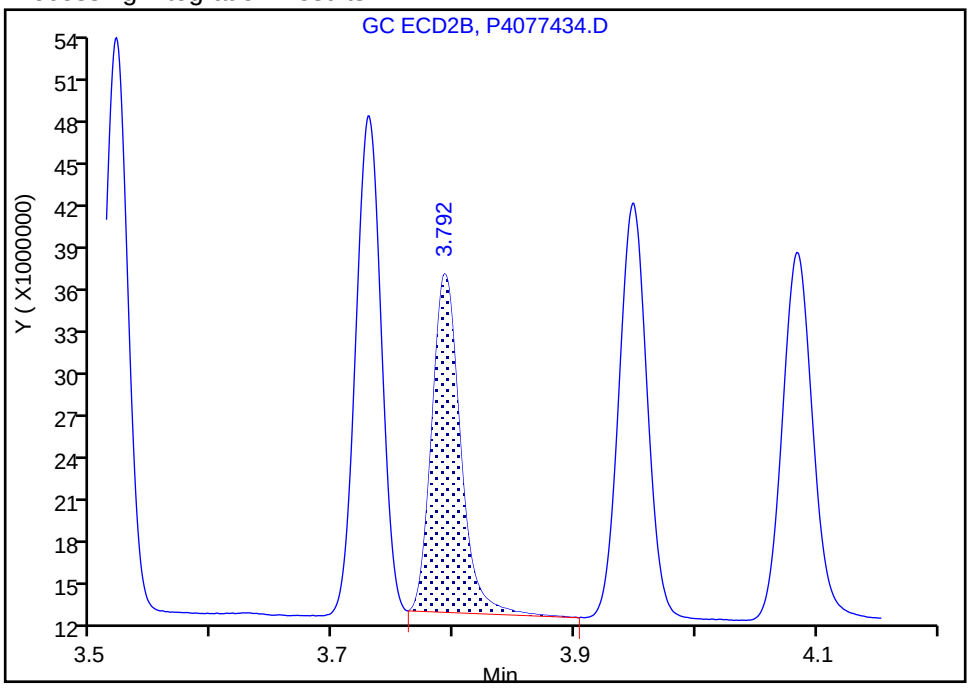
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

16 4,4'-DDD, CAS: 72-54-8

Signal: 2

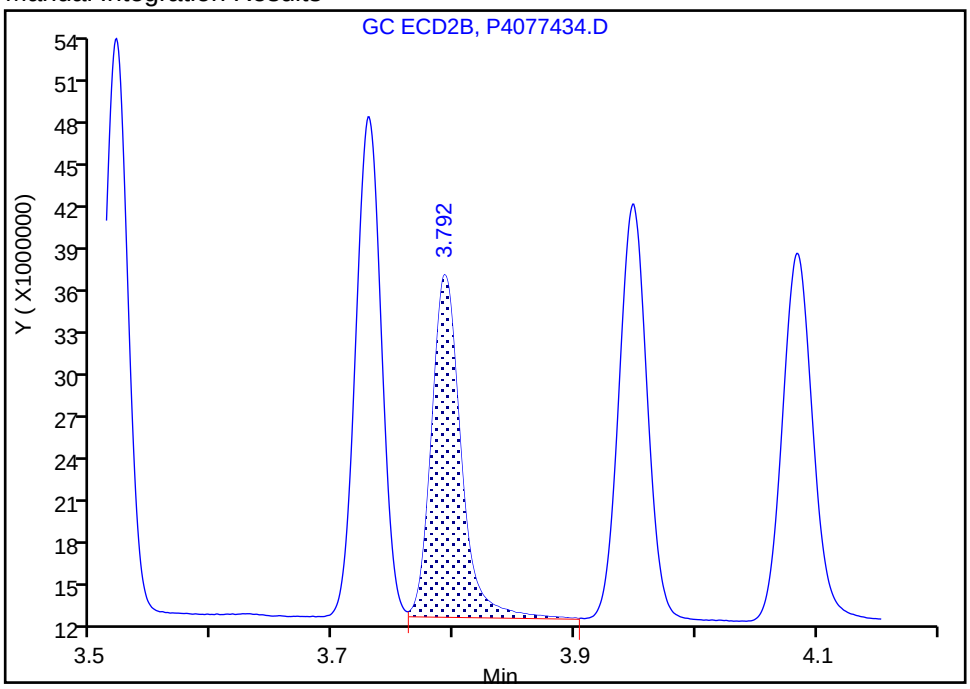
Processing Integration Results

RT: 3.79
Area: 39317555
Amount: 84.153847
Amount Units: ug/l



Manual Integration Results

RT: 3.79
Area: 41016654
Amount: 87.790536
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

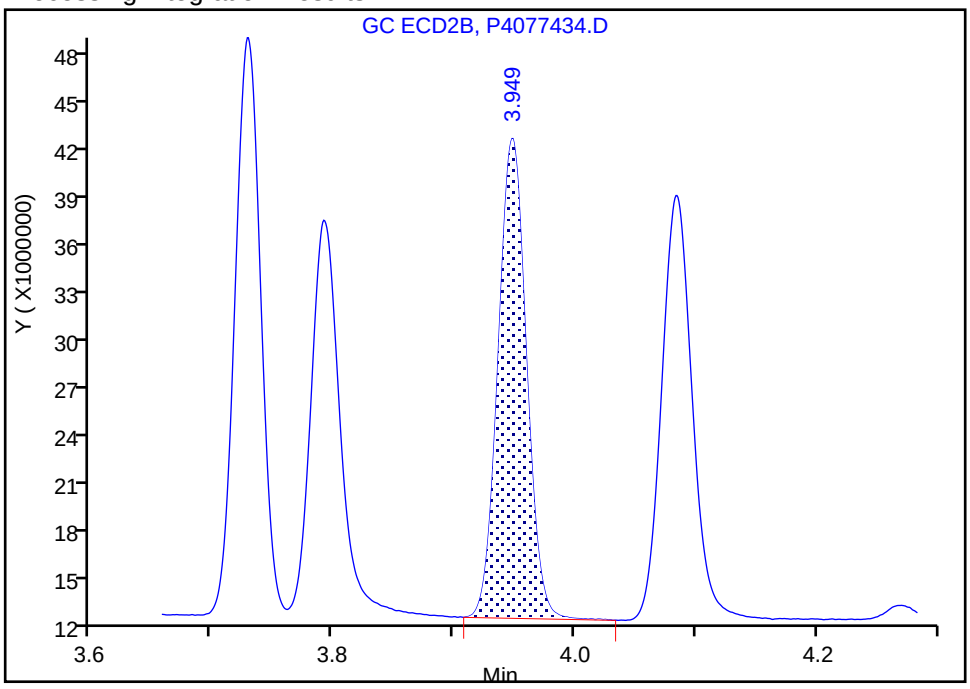
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

11 Endosulfan II, CAS: 33213-65-9

Signal: 2

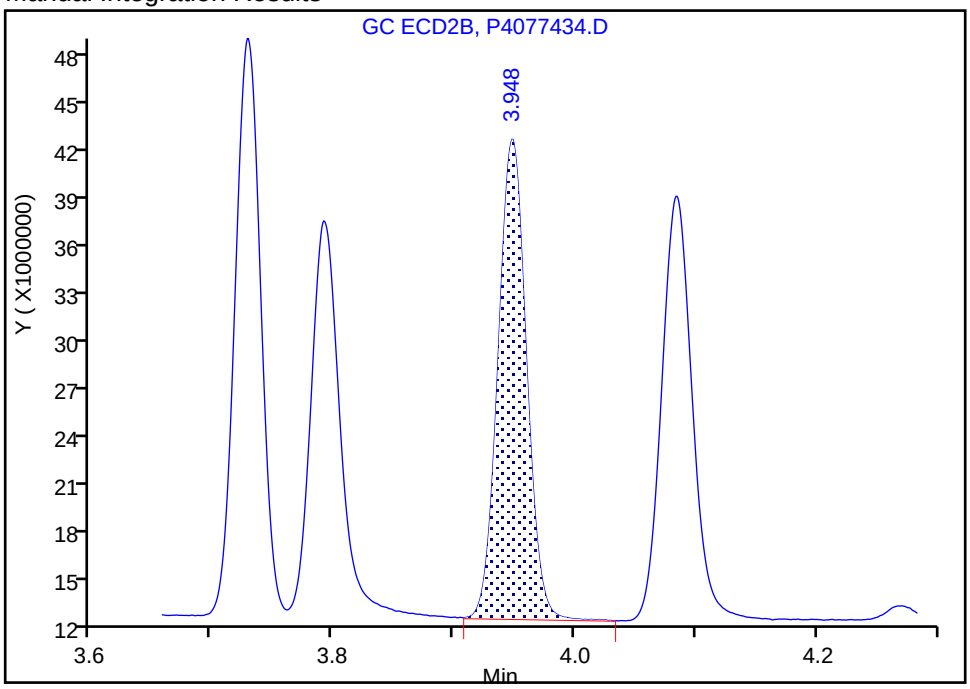
Processing Integration Results

RT: 3.95
Area: 47822279
Amount: 94.081951
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 48104611
Amount: 94.637390
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

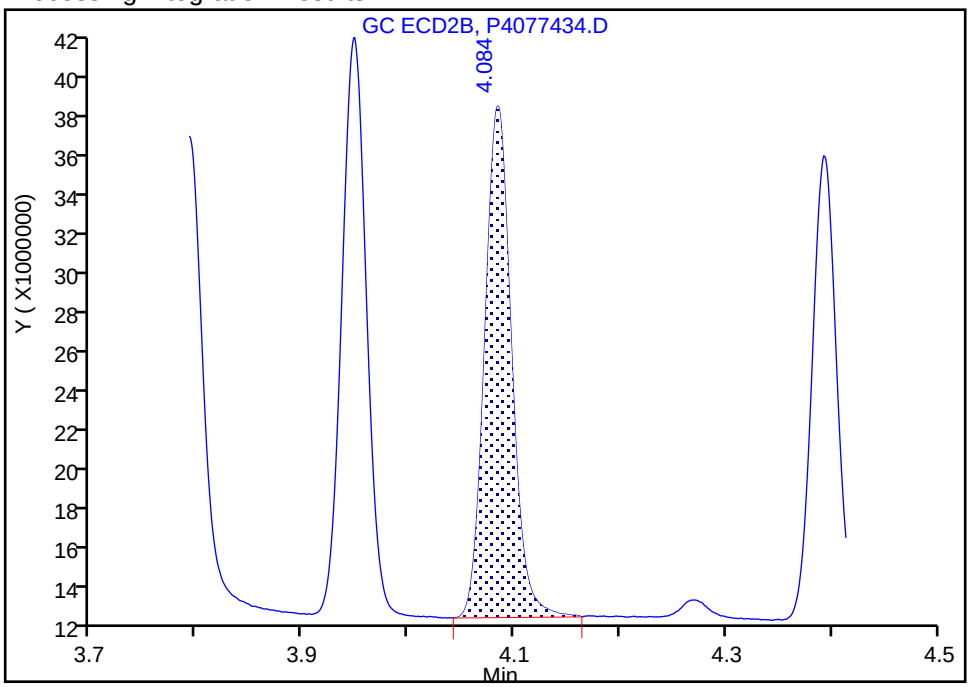
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

21 4,4'-DDT, CAS: 50-29-3

Signal: 2

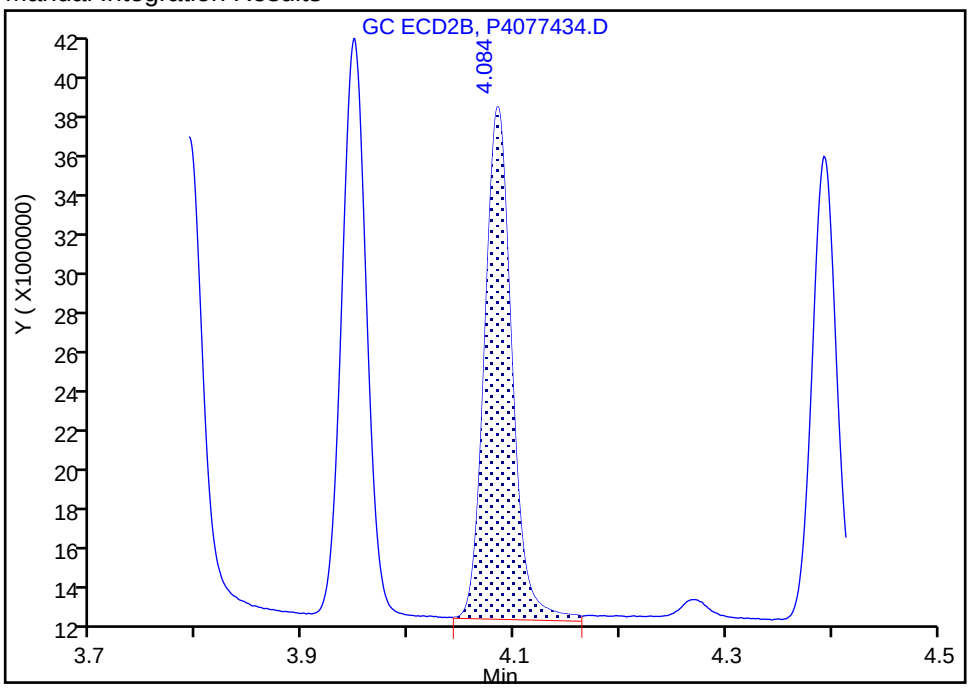
Processing Integration Results

RT: 4.08
Area: 45753152
Amount: 94.428062
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 46777116
Amount: 96.541379
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:48:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

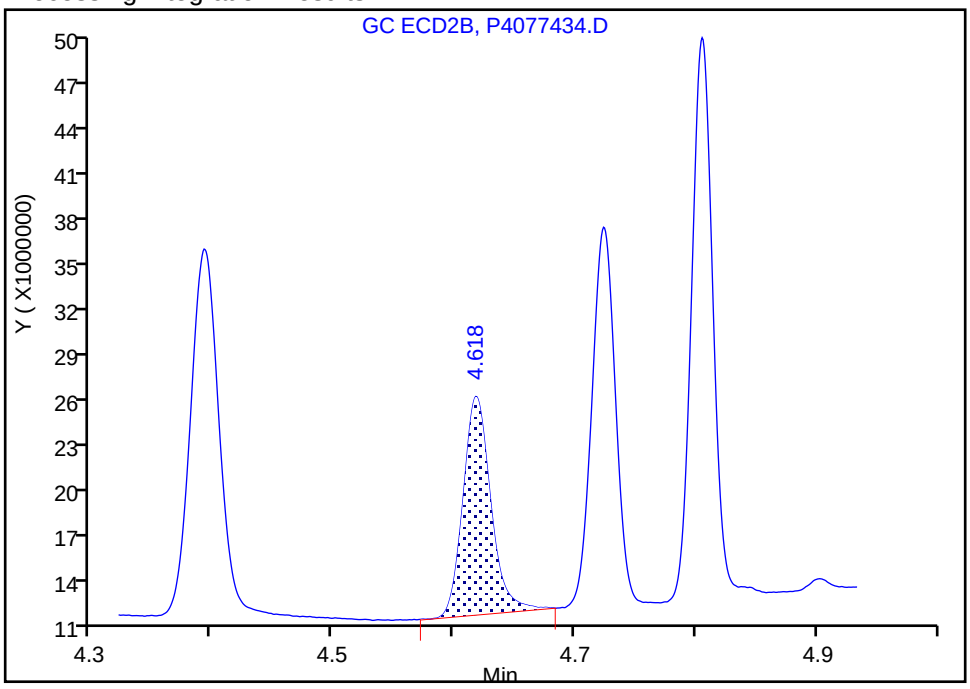
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

10 Methoxychlor, CAS: 72-43-5

Signal: 2

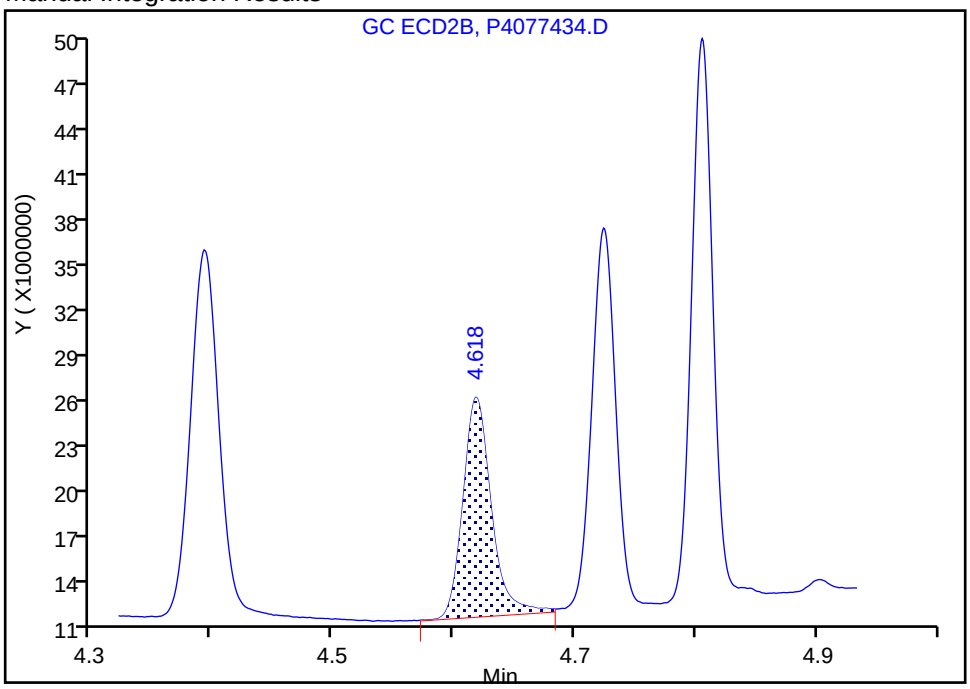
Processing Integration Results

RT: 4.62
Area: 22474030
Amount: 82.790636
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 23118007
Amount: 85.162941
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:49:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

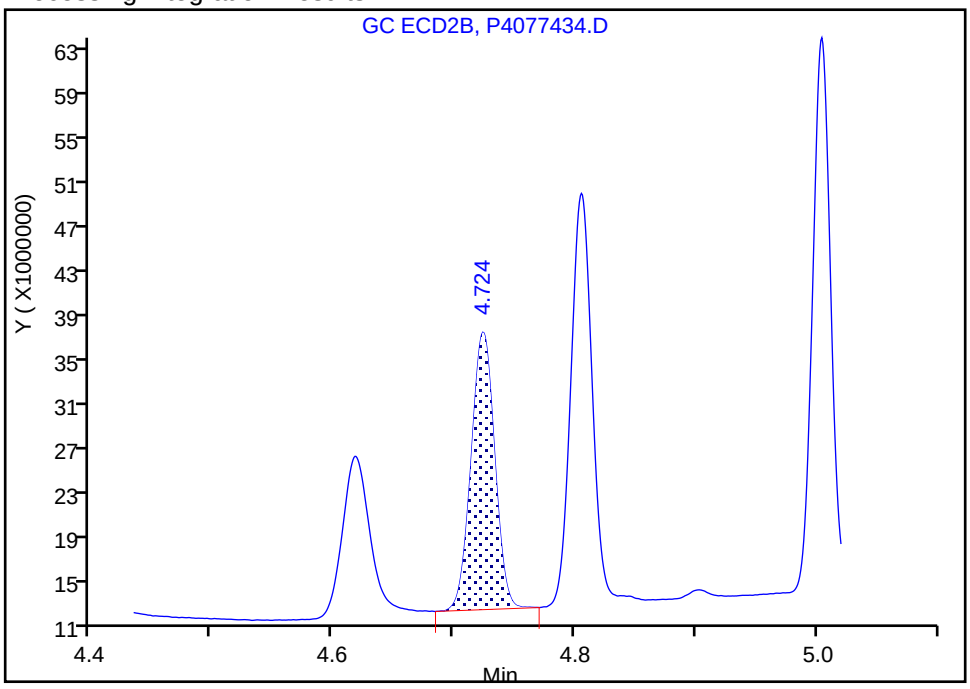
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

34 Mirex, CAS: 2385-85-5

Signal: 2

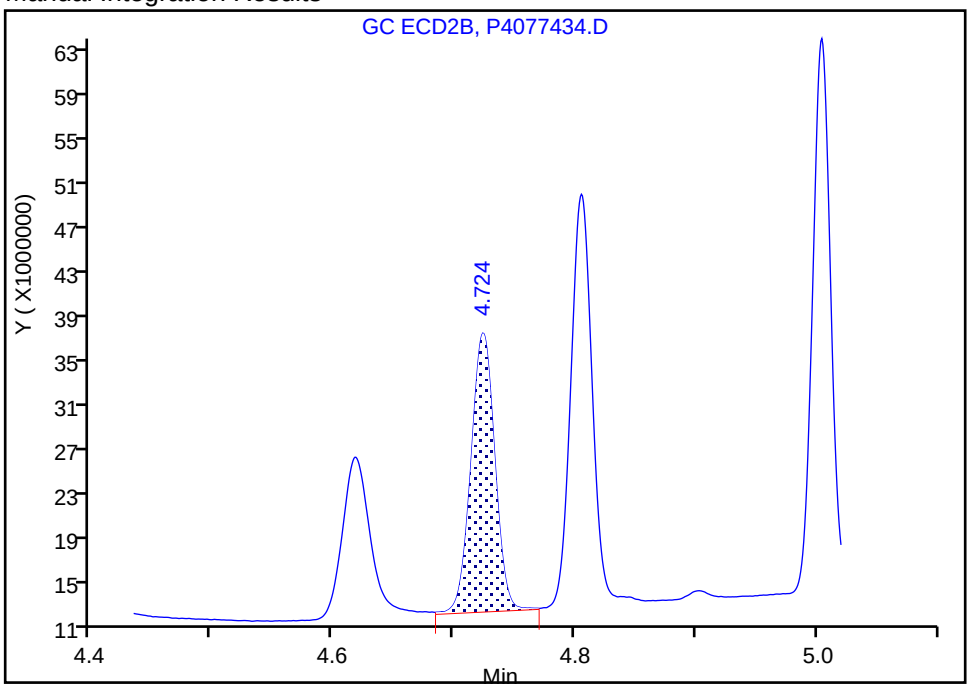
Processing Integration Results

RT: 4.72
Area: 32980944
Amount: 88.583216
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 33672628
Amount: 90.441004
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:49:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

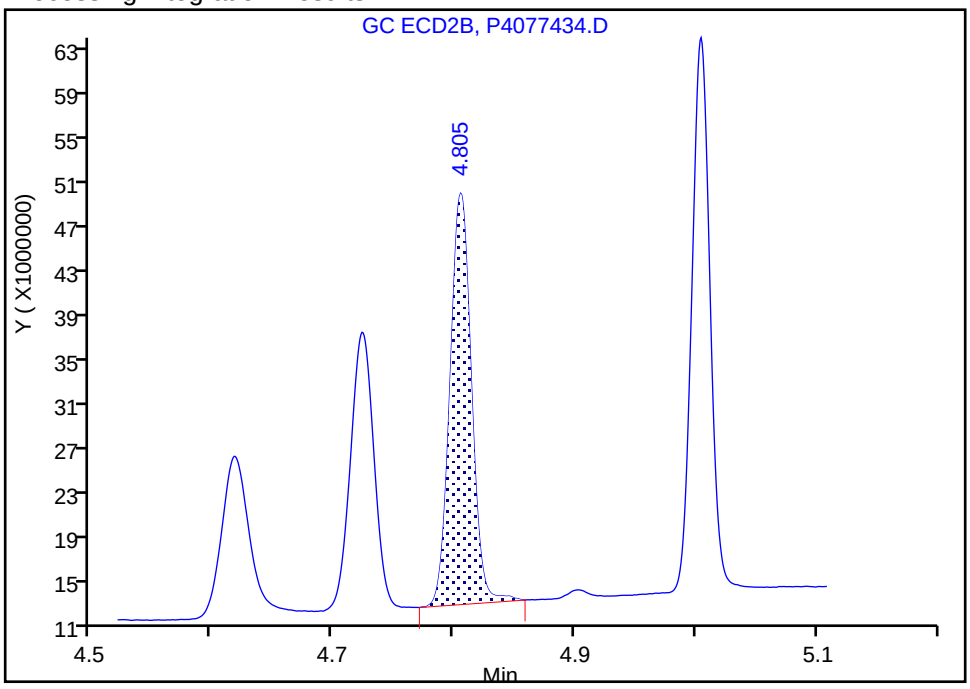
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

3 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

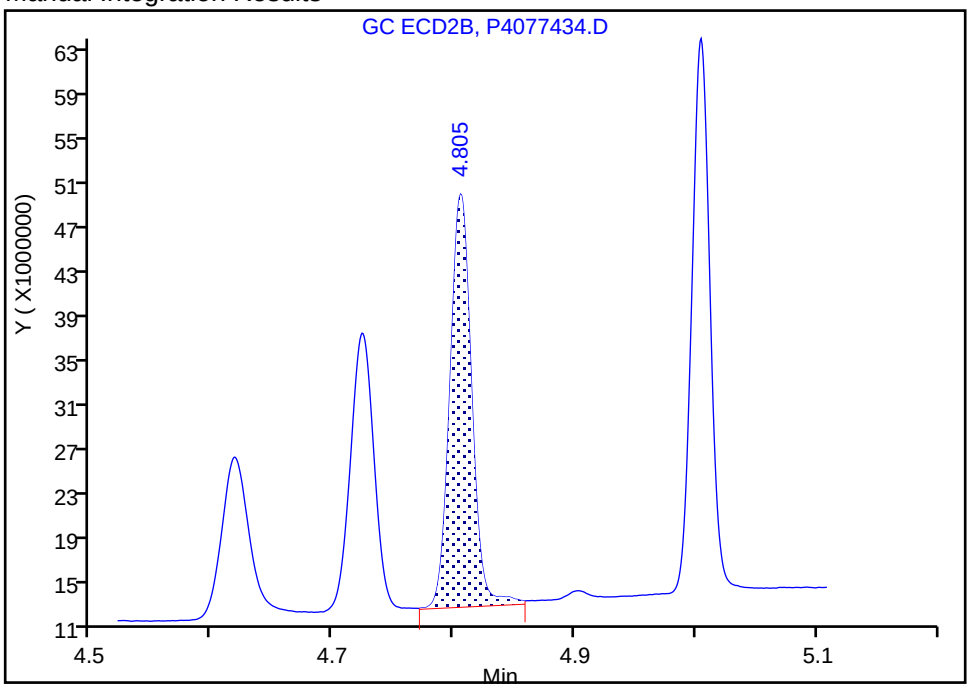
Processing Integration Results

RT: 4.81
Area: 44333029
Amount: 85.492686
Amount Units: ug/l



Manual Integration Results

RT: 4.81
Area: 45290779
Amount: 87.339630
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:49:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

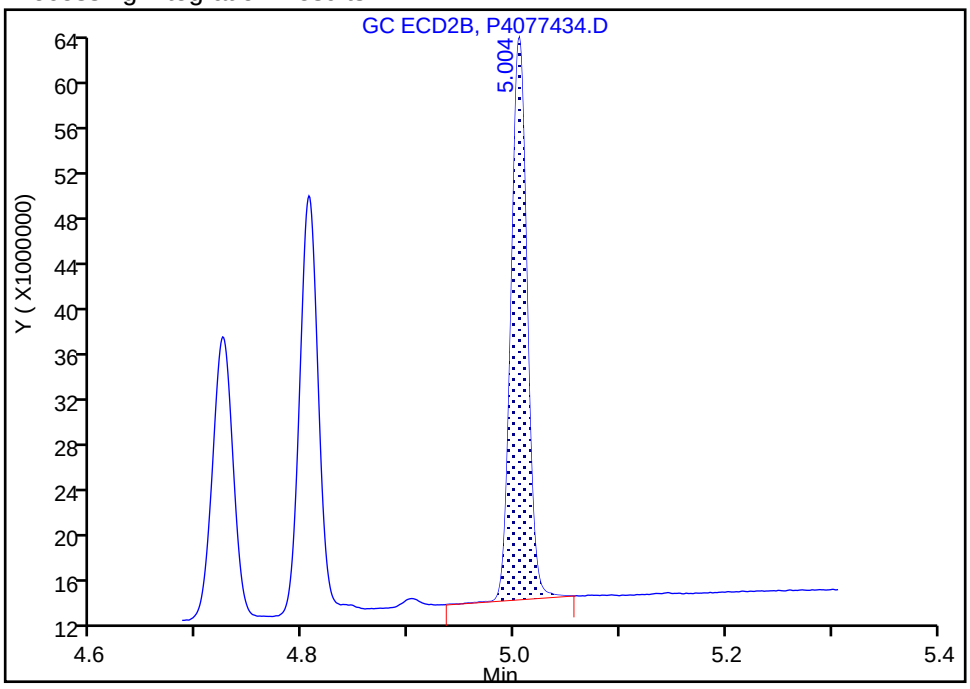
Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077434.D
Injection Date: 16-Apr-2018 09:27:23 Instrument ID: CPESTGC4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

13 Endrin ketone, CAS: 53494-70-5

Signal: 2

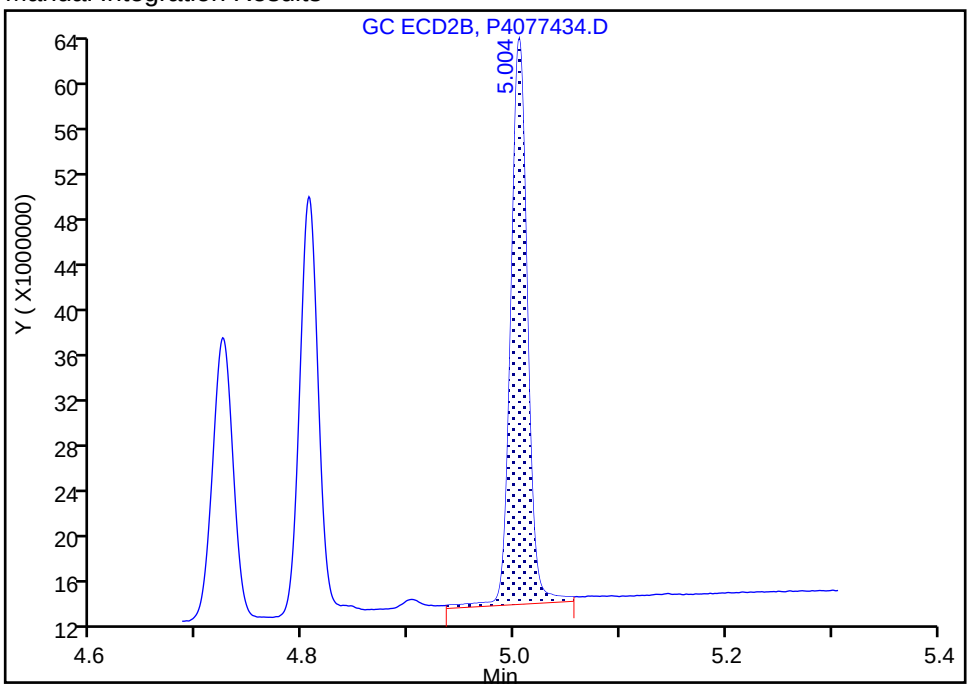
Processing Integration Results

RT: 5.00
Area: 51023196
Amount: 86.992952
Amount Units: ug/l



Manual Integration Results

RT: 5.00
Area: 53239554
Amount: 90.771773
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 09:49:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-511212/1-A

Matrix: Solid Lab File ID: P4077435.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) Date Analyzed: 04/16/2018 09:53

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

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 511361 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	83		10-150
877-09-8	Tetrachloro-m-xylene	75		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077435.D
Lims ID: MB 460-511212/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2018 09:53:48 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:54:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.549	1.544	0.005	39876552	100.0	100.0	
2	1.395	1.393	0.002	49451180	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.030	0.008	29789421	100.0	74.9	
2	1.714	1.713	0.001	35049841	100.0	74.9	
						RPD = 0.01	
$ 24 DCB Decachlorobiphenyl							
1	6.830	6.821	0.009	24443964	100.0	83.0	
2	5.723	5.720	0.003	44501147	100.0	99.3	
						RPD = 17.88	

Reagents:

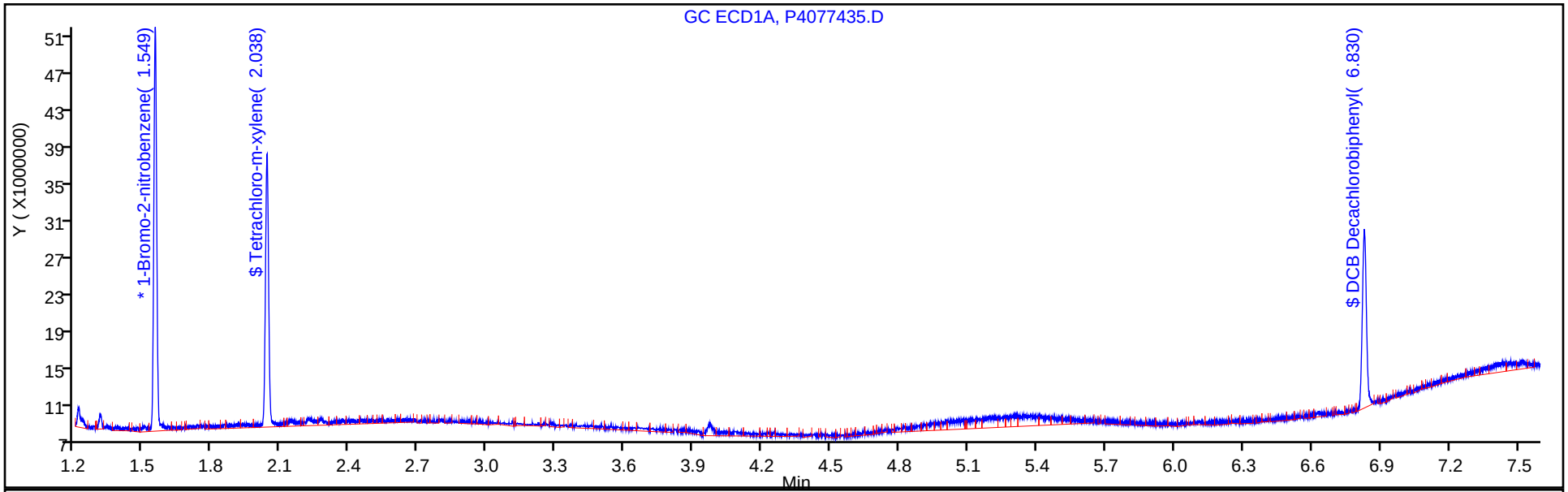
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

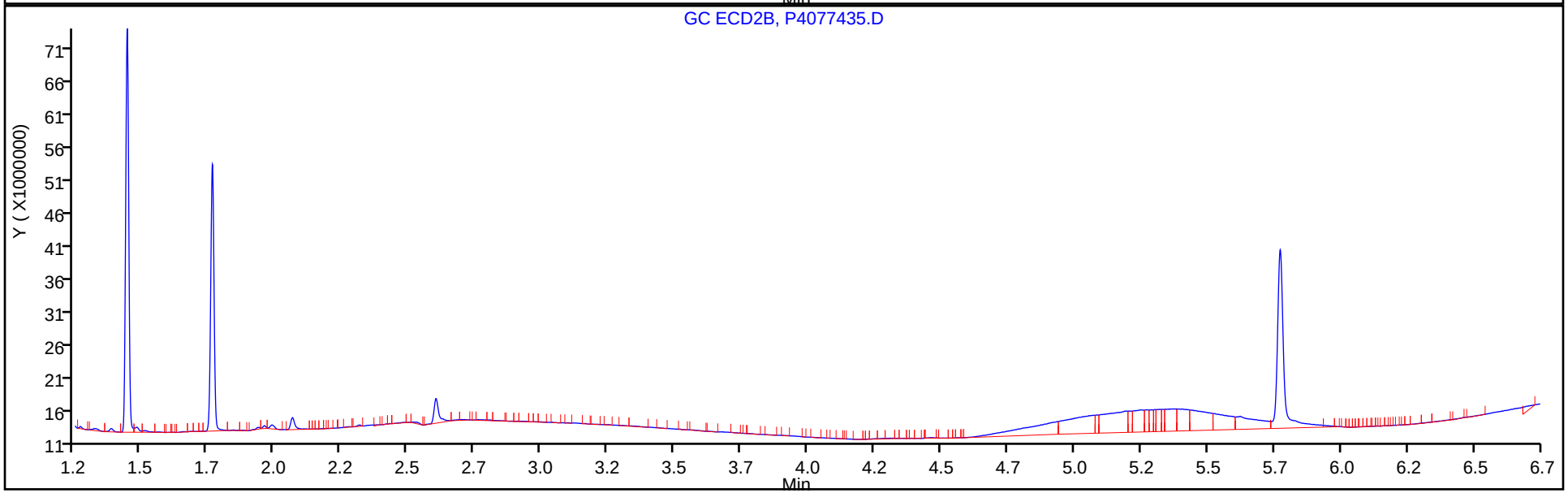
Report Date: 16-Apr-2018 13:27:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077435.D

Injection Date:	16-Apr-2018 09:53:48	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	MB 460-511212/1-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-511212/1-A

Matrix: Solid | Lab File ID: P4077435.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 09:53

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12789-03-6	Chlordane (technical)	0.055	U	5.0	0.055
72-20-8	Endrin	0.0040	U	0.50	0.0040
58-89-9	gamma-BHC (Lindane)	0.012	U	0.50	0.012
76-44-8	Heptachlor	0.0030	U	0.50	0.0030
1024-57-3	Heptachlor epoxide	0.0050	U	0.50	0.0050
72-43-5	Methoxychlor	0.0040	U	0.50	0.0040
8001-35-2	Toxaphene	0.11	U	5.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		10-150
877-09-8	Tetrachloro-m-xylene	75		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077435.D
Lims ID: MB 460-511212/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2018 09:53:48 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:54:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.549	1.544	0.005	39876552	100.0	100.0	
2	1.395	1.393	0.002	49451180	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.038	2.030	0.008	29789421	100.0	74.9	
2	1.714	1.713	0.001	35049841	100.0	74.9	
						RPD = 0.01	
$ 24 DCB Decachlorobiphenyl							
1	6.830	6.821	0.009	24443964	100.0	83.0	
2	5.723	5.720	0.003	44501147	100.0	99.3	
						RPD = 17.88	

Reagents:

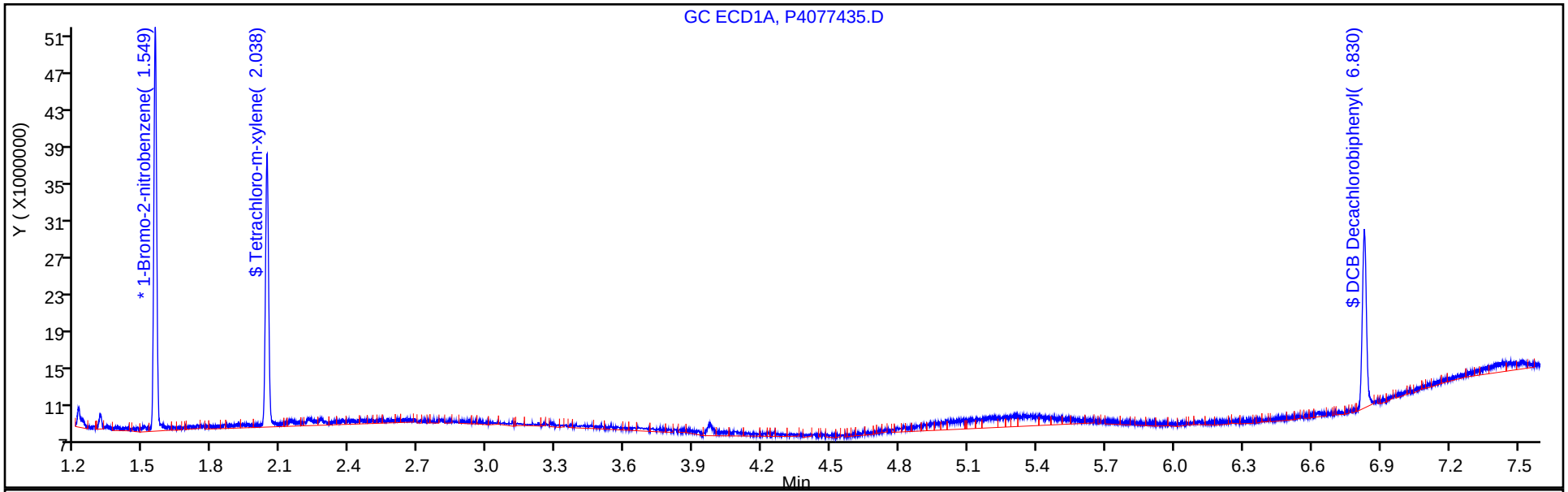
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

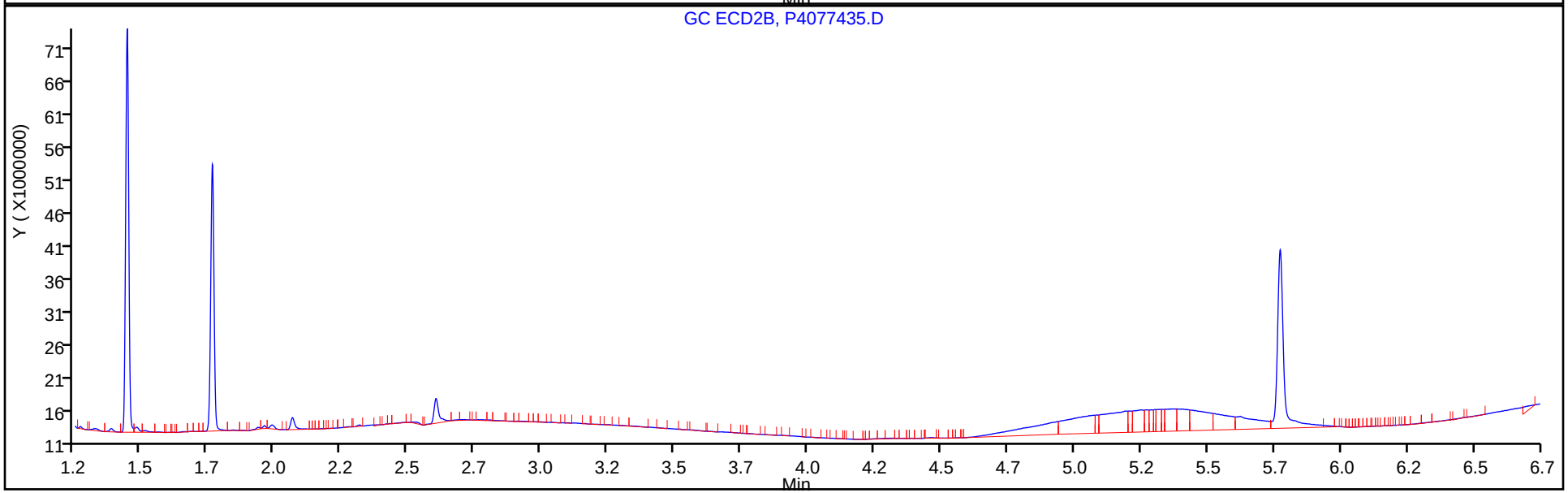
Report Date: 16-Apr-2018 13:27:43 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077435.D

Injection Date:	16-Apr-2018 09:53:48	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	MB 460-511212/1-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: LB 460-511103/1-C

Matrix: Solid (TCLP) Lab File ID: P4077440.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) Date Analyzed: 04/16/2018 10:54

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

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 511361 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	79		10-150
877-09-8	Tetrachloro-m-xylene	69		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D
Lims ID: LB 460-511103/1-C
Client ID:
Sample Type: LB
Inject. Date: 16-Apr-2018 10:54:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 11:11:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.547	1.544	0.003	37855360	100.0	100.0	
2	1.398	1.393	0.005	48582540	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.034	2.030	0.004	26058822	100.0	69.0	
2	1.719	1.713	0.006	29952659	100.0	65.1	
						RPD = 5.76	
$ 24 DCB Decachlorobiphenyl							
1	6.824	6.821	0.003	22105781	100.0	79.1	
2	5.725	5.720	0.005	32069236	100.0	72.9	
						RPD = 8.21	

Reagents:

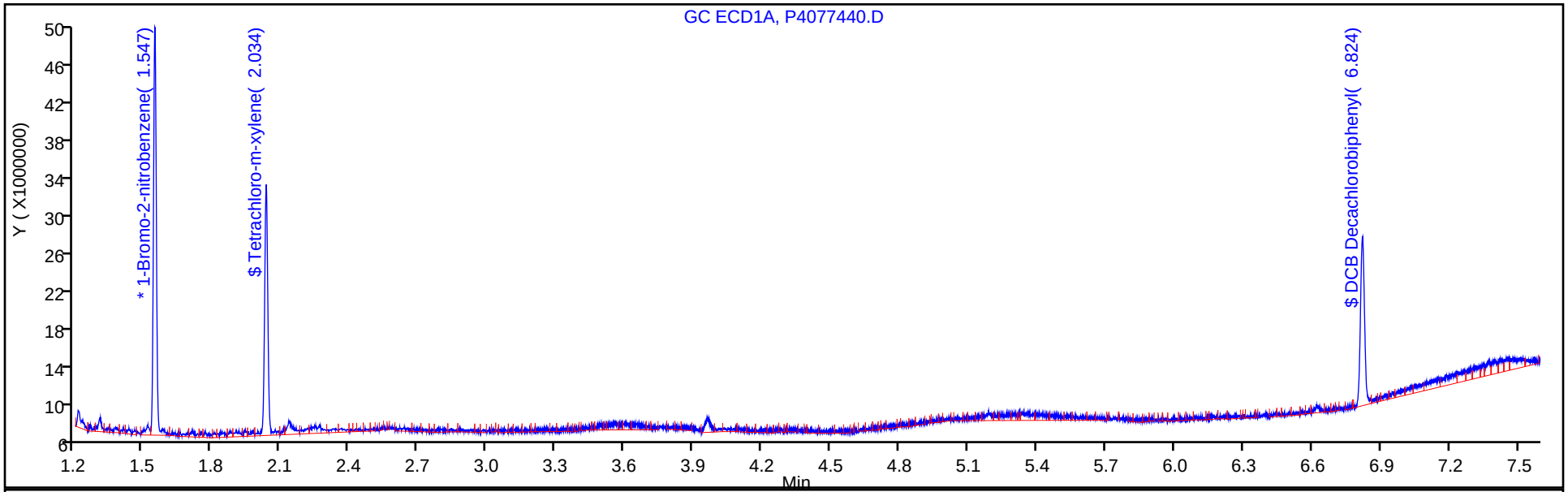
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

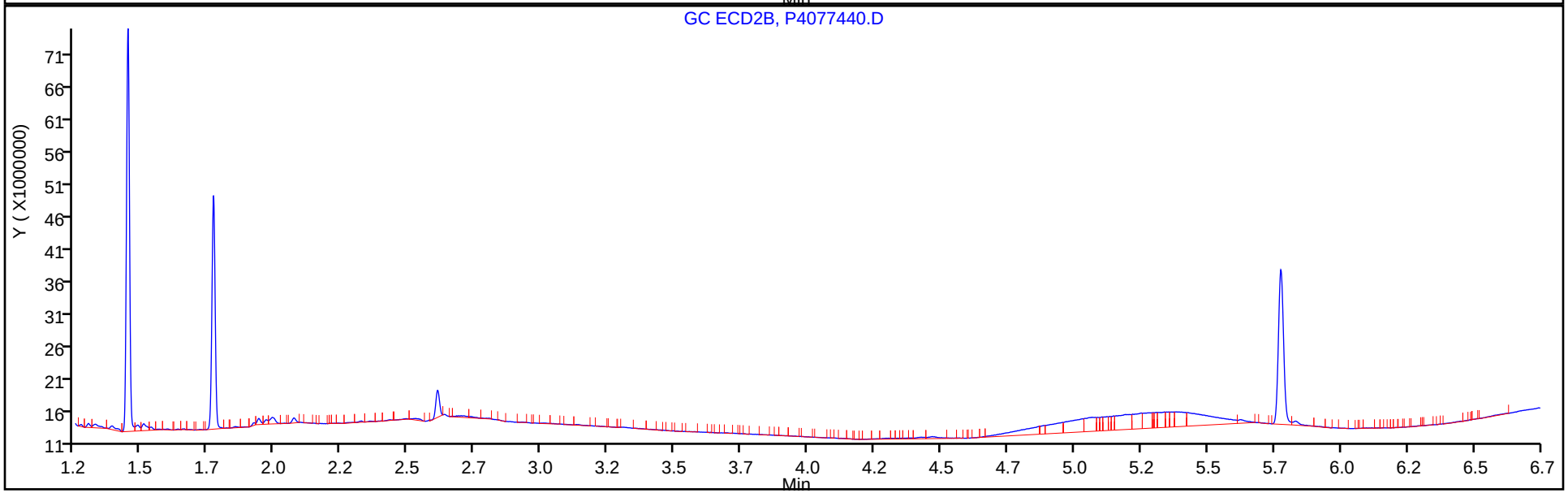
Report Date: 16-Apr-2018 13:27:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D

Injection Date:	16-Apr-2018 10:54:17	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LB 460-511103/1-C			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





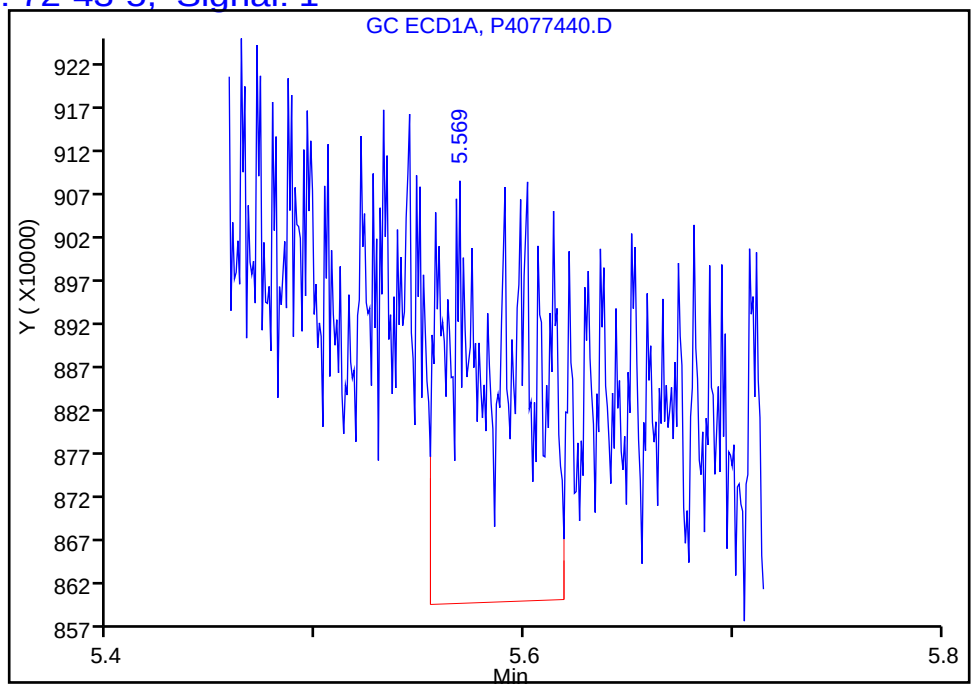
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D
Injection Date: 16-Apr-2018 10:54:17 Instrument ID: CPESTGC4
Lims ID: LB 460-511103/1-C
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD1A

10 Methoxychlor, CAS: 72-43-5, Signal: 1

RT: 5.57
Response: 1093157
Amount: 5.565036



Reviewer: kapoors, 16-Apr-2018 11:11:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 460-511103/1-C

Matrix: Solid (TCLP) | Lab File ID: P4077440.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:54

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12789-03-6	Chlordane (technical)	0.055	U	5.0	0.055
72-20-8	Endrin	0.0040	U	0.50	0.0040
58-89-9	gamma-BHC (Lindane)	0.012	U	0.50	0.012
76-44-8	Heptachlor	0.0030	U	0.50	0.0030
1024-57-3	Heptachlor epoxide	0.0050	U	0.50	0.0050
72-43-5	Methoxychlor	0.0040	U	0.50	0.0040
8001-35-2	Toxaphene	0.11	U	5.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73		10-150
877-09-8	Tetrachloro-m-xylene	65		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D
Lims ID: LB 460-511103/1-C
Client ID:
Sample Type: LB
Inject. Date: 16-Apr-2018 10:54:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 11:11:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.547	1.544	0.003	37855360	100.0	100.0	
2	1.398	1.393	0.005	48582540	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.034	2.030	0.004	26058822	100.0	69.0	
2	1.719	1.713	0.006	29952659	100.0	65.1	
						RPD = 5.76	
$ 24 DCB Decachlorobiphenyl							
1	6.824	6.821	0.003	22105781	100.0	79.1	
2	5.725	5.720	0.005	32069236	100.0	72.9	
						RPD = 8.21	

Reagents:

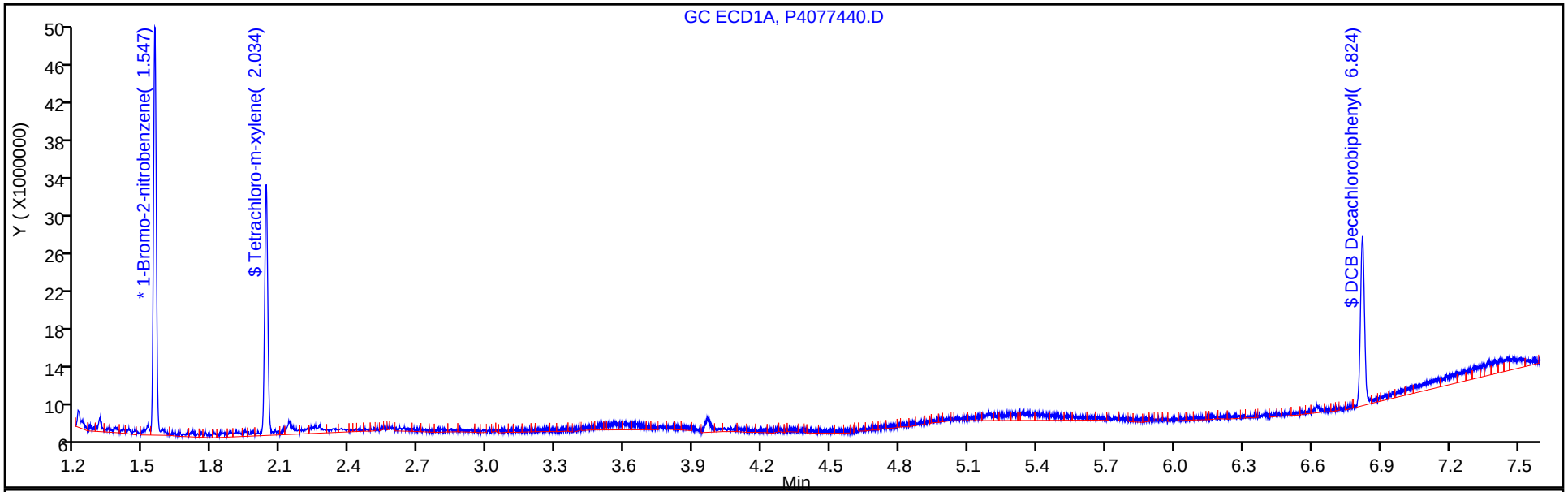
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

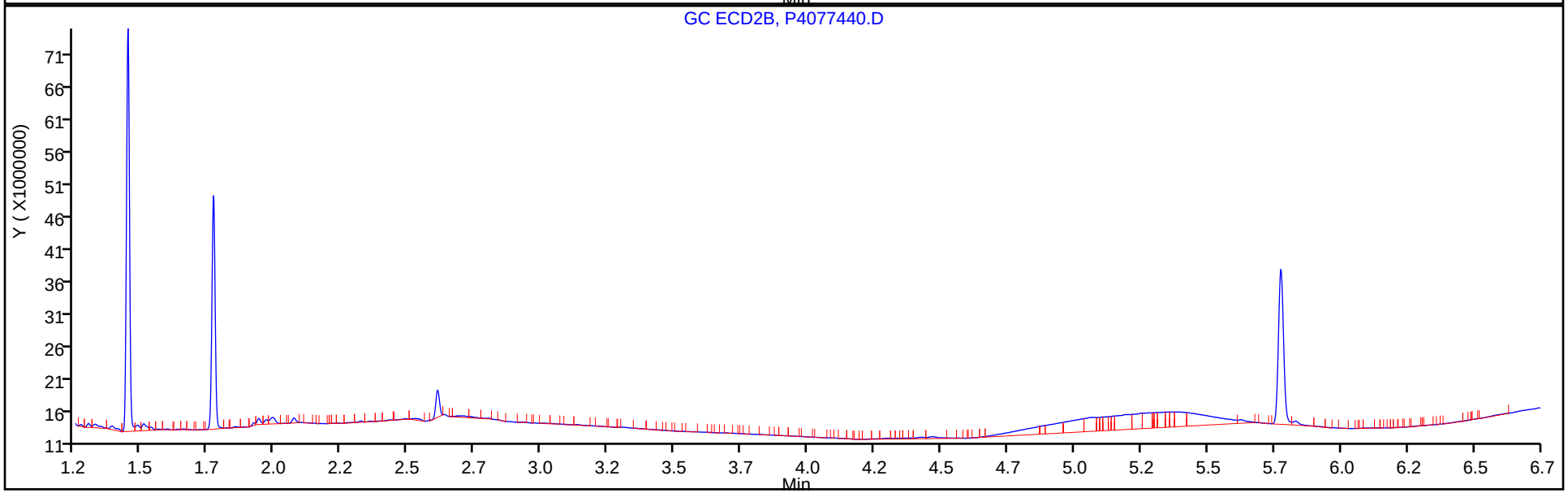
Report Date: 16-Apr-2018 13:27:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D

Injection Date:	16-Apr-2018 10:54:17	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LB 460-511103/1-C			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





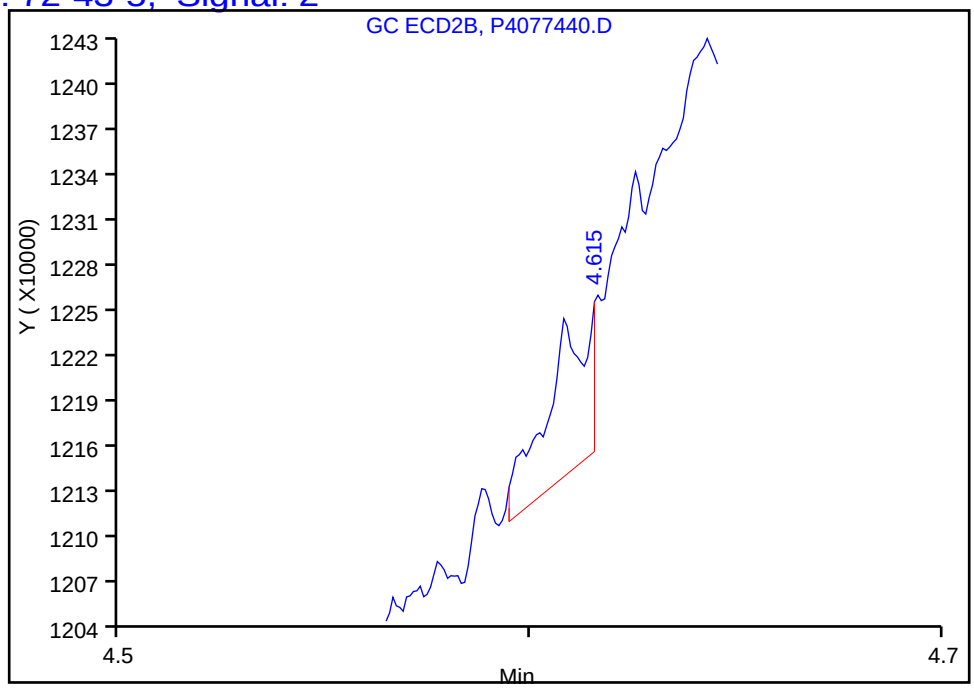
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077440.D
Injection Date: 16-Apr-2018 10:54:17 Instrument ID: CPESTGC4
Lims ID: LB 460-511103/1-C
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: GC-4 8081 ISTD Limit Group: GC 8081B PEST ISTD
Column: Detector GC ECD2B

10 Methoxychlor, CAS: 72-43-5, Signal: 2

RT: 4.62
Response: 71657
Amount: 0.281564



Reviewer: kapoors, 16-Apr-2018 11:11:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-511212/2-A

Matrix: Solid | Lab File ID: P4077436.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:06

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	*Endrin*	*0.796*		*0.50*	*0.0040*
58-89-9	*gamma-BHC (Lindane)*	*0.706*		*0.50*	*0.012*
76-44-8	*Heptachlor*	*0.692*		*0.50*	*0.0030*
1024-57-3	*Heptachlor epoxide*	*0.735*		*0.50*	*0.0050*
72-43-5	Methoxychlor	0.830		0.50	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	79		10-150
877-09-8	Tetrachloro-m-xylene	73		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077436.D
Lims ID: LCS 460-511212/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2018 10:06:20 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.546	1.544	0.002	37319406	100.0	100.0	
2	1.396	1.393	0.003	46223790	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.033	2.030	0.003	27071742	100.0	72.7	
2	1.716	1.713	0.003	35700768	100.0	81.6	
						RPD = 11.52	
15 alpha-BHC							
1	2.416	2.413	0.003	96254656	200.0	179.1	
2	1.999	1.996	0.003	139528264	200.0	219.0	
						RPD = 20.05	
2 gamma-BHC (Lindane)							
1	2.652	2.649	0.003	88112395	200.0	176.6	
2	2.174	2.171	0.003	123681162	200.0	212.6	
						RPD = 18.52	
6 beta-BHC							
1	2.699	2.695	0.004	41880499	200.0	192.2	
2	2.217	2.214	0.003	60176434	200.0	238.7	
						RPD = 21.59	
32 delta-BHC							
1	2.917	2.913	0.004	88788026	200.0	174.5	
2	2.323	2.320	0.003	123971778	200.0	213.4	
						RPD = 20.09	
18 Heptachlor							
1	2.981	2.977	0.004	85557124	200.0	172.9	
2	2.451	2.447	0.004	121353326	200.0	212.6	
						RPD = 20.60	
8 Aldrin							
1	3.245	3.240	0.005	79750336	200.0	170.9	
2	2.631	2.628	0.003	115061634	200.0	217.8	
						RPD = 24.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.757	3.752	0.005	78034724	200.0	183.8	
2	3.025	3.021	0.004	109570890	200.0	219.9	
						RPD = 17.92	
9 trans-Chlordane							
1	3.952	3.950	0.002	78195621	200.0	184.1	
2	3.115	3.110	0.005	111077589	200.0	224.3	
						RPD = 19.72	
23 cis-Chlordane							
1	4.113	4.107	0.006	74484058	200.0	185.4	
2	3.214	3.209	0.005	103365219	200.0	214.7	
						RPD = 14.65	
7 Endosulfan I							
1	4.187	4.180	0.007	72645745	200.0	186.6	
2	3.321	3.317	0.004	106274051	200.0	226.2	
						RPD = 19.16	
25 4,4'-DDE							
1	4.288	4.282	0.006	79663612	200.0	198.6	
2	3.269	3.264	0.005	102605680	200.0	214.7	
						RPD = 7.80	
30 Dieldrin							
1	4.486	4.480	0.006	82350678	200.0	193.4	
2	3.519	3.513	0.006	112624161	200.0	217.0	
						RPD = 11.50	
20 Endrin							
1	4.783	4.777	0.006	74940988	200.0	198.9	
2	3.728	3.722	0.006	105562864	200.0	219.9	
						RPD = 10.01	
16 4,4'-DDD							
1	4.864	4.859	0.005	63060909	200.0	187.8	
2	3.791	3.784	0.007	87084617	200.0	209.0	
						RPD = 10.64	
11 Endosulfan II							
1	4.946	4.942	0.004	72367596	200.0	199.3	
2	3.947	3.941	0.006	98423496	200.0	217.1	
						RPD = 8.53	
21 4,4'-DDT							
1	5.093	5.088	0.005	68121912	200.0	192.0	
2	4.083	4.076	0.007	90634297	200.0	209.7	
						RPD = 8.82	
5 Endrin aldehyde							
1	5.180	5.176	0.004	57068900	200.0	186.8	
2	4.391	4.385	0.006	76497385	200.0	202.3	
						RPD = 7.94	
3 Endosulfan sulfate							
1	5.366	5.363	0.003	67440560	200.0	192.3	
2	4.805	4.799	0.006	88278062	200.0	190.8	
						RPD = 0.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.574	5.570	0.004	40160169	200.0	207.4	
2	4.617	4.610	0.007	44944064	200.0	185.6	
						RPD = 11.08	
34 Mirex							
1	5.733	5.729	0.004	46257365	200.0	186.5	
2	4.723	4.717	0.006	64446895	200.0	194.1	
						RPD = 3.99	
13 Endrin ketone							
1	5.763	5.760	0.003	76241656	200.0	193.0	
2	5.004	4.999	0.005	104085423	200.0	198.9	
						RPD = 3.03	
$ 24 DCB Decachlorobiphenyl							
1	6.823	6.821	0.002	21641773	100.0	78.6	
2	5.724	5.720	0.004	32764094	100.0	78.2	
						RPD = 0.40	

Reagents:

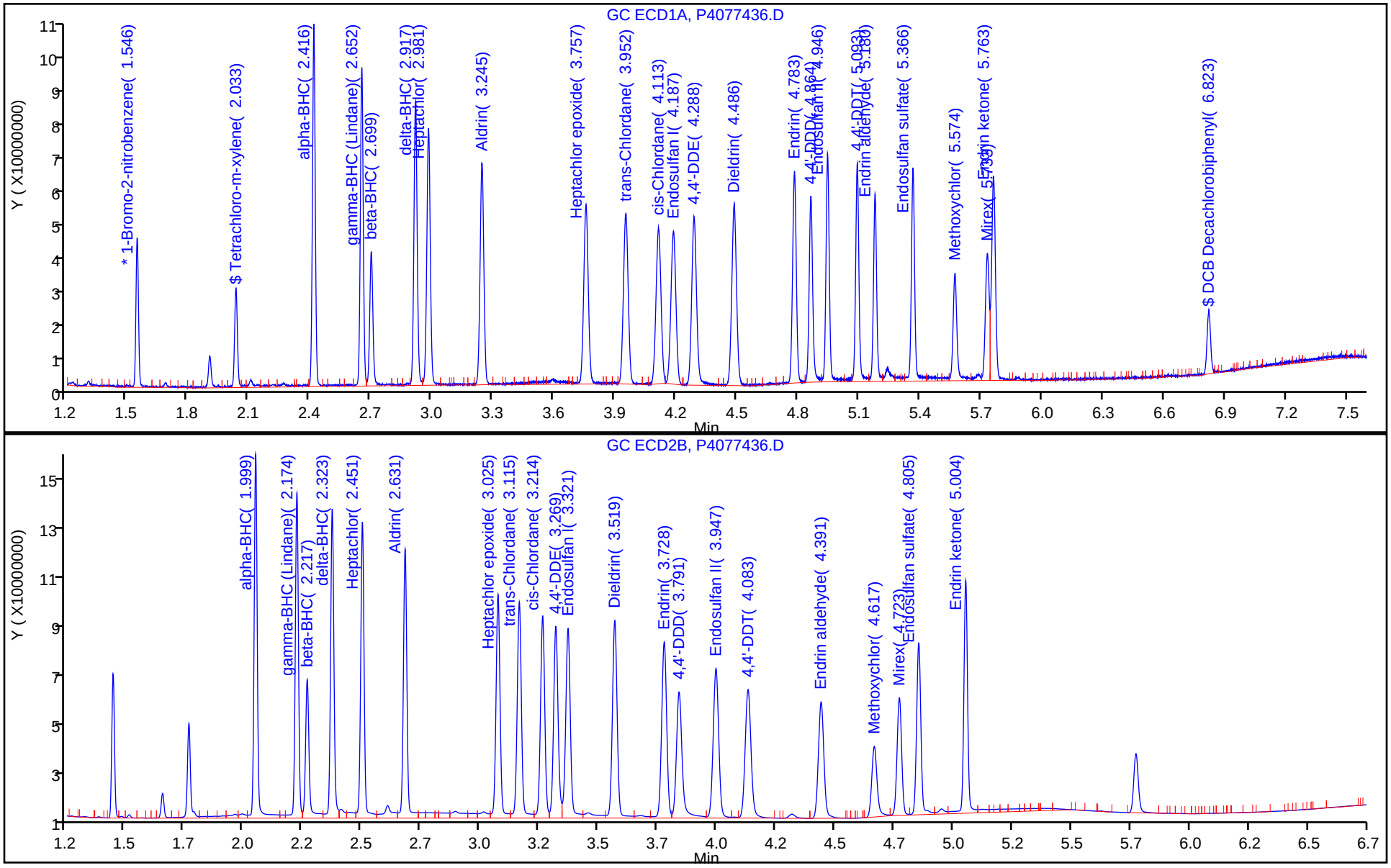
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 16-Apr-2018 13:27:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077436.D

Injection Date:	16-Apr-2018 10:06:20	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LCS 460-511212/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-511212/2-A

Matrix: Solid | Lab File ID: P4077436.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:06

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	Endrin	0.880		0.50	0.0040
58-89-9	gamma-BHC (Lindane)	0.850		0.50	0.012
76-44-8	Heptachlor	0.850		0.50	0.0030
1024-57-3	Heptachlor epoxide	0.880		0.50	0.0050
72-43-5	*Methoxychlor*	*0.742*		*0.50*	*0.0040*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78		10-150
877-09-8	Tetrachloro-m-xylene	82		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077436.D
Lims ID: LCS 460-511212/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2018 10:06:20 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.546	1.544	0.002	37319406	100.0	100.0	
2	1.396	1.393	0.003	46223790	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.033	2.030	0.003	27071742	100.0	72.7	
2	1.716	1.713	0.003	35700768	100.0	81.6	
						RPD = 11.52	
15 alpha-BHC							
1	2.416	2.413	0.003	96254656	200.0	179.1	
2	1.999	1.996	0.003	139528264	200.0	219.0	
						RPD = 20.05	
2 gamma-BHC (Lindane)							
1	2.652	2.649	0.003	88112395	200.0	176.6	
2	2.174	2.171	0.003	123681162	200.0	212.6	
						RPD = 18.52	
6 beta-BHC							
1	2.699	2.695	0.004	41880499	200.0	192.2	
2	2.217	2.214	0.003	60176434	200.0	238.7	
						RPD = 21.59	
32 delta-BHC							
1	2.917	2.913	0.004	88788026	200.0	174.5	
2	2.323	2.320	0.003	123971778	200.0	213.4	
						RPD = 20.09	
18 Heptachlor							
1	2.981	2.977	0.004	85557124	200.0	172.9	
2	2.451	2.447	0.004	121353326	200.0	212.6	
						RPD = 20.60	
8 Aldrin							
1	3.245	3.240	0.005	79750336	200.0	170.9	
2	2.631	2.628	0.003	115061634	200.0	217.8	
						RPD = 24.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.757	3.752	0.005	78034724	200.0	183.8	
2	3.025	3.021	0.004	109570890	200.0	219.9	
						RPD = 17.92	
9 trans-Chlordane							
1	3.952	3.950	0.002	78195621	200.0	184.1	
2	3.115	3.110	0.005	111077589	200.0	224.3	
						RPD = 19.72	
23 cis-Chlordane							
1	4.113	4.107	0.006	74484058	200.0	185.4	
2	3.214	3.209	0.005	103365219	200.0	214.7	
						RPD = 14.65	
7 Endosulfan I							
1	4.187	4.180	0.007	72645745	200.0	186.6	
2	3.321	3.317	0.004	106274051	200.0	226.2	
						RPD = 19.16	
25 4,4'-DDE							
1	4.288	4.282	0.006	79663612	200.0	198.6	
2	3.269	3.264	0.005	102605680	200.0	214.7	
						RPD = 7.80	
30 Dieldrin							
1	4.486	4.480	0.006	82350678	200.0	193.4	
2	3.519	3.513	0.006	112624161	200.0	217.0	
						RPD = 11.50	
20 Endrin							
1	4.783	4.777	0.006	74940988	200.0	198.9	
2	3.728	3.722	0.006	105562864	200.0	219.9	
						RPD = 10.01	
16 4,4'-DDD							
1	4.864	4.859	0.005	63060909	200.0	187.8	
2	3.791	3.784	0.007	87084617	200.0	209.0	
						RPD = 10.64	
11 Endosulfan II							
1	4.946	4.942	0.004	72367596	200.0	199.3	
2	3.947	3.941	0.006	98423496	200.0	217.1	
						RPD = 8.53	
21 4,4'-DDT							
1	5.093	5.088	0.005	68121912	200.0	192.0	
2	4.083	4.076	0.007	90634297	200.0	209.7	
						RPD = 8.82	
5 Endrin aldehyde							
1	5.180	5.176	0.004	57068900	200.0	186.8	
2	4.391	4.385	0.006	76497385	200.0	202.3	
						RPD = 7.94	
3 Endosulfan sulfate							
1	5.366	5.363	0.003	67440560	200.0	192.3	
2	4.805	4.799	0.006	88278062	200.0	190.8	
						RPD = 0.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.574	5.570	0.004	40160169	200.0	207.4	
2	4.617	4.610	0.007	44944064	200.0	185.6	
						RPD = 11.08	
34 Mirex							
1	5.733	5.729	0.004	46257365	200.0	186.5	
2	4.723	4.717	0.006	64446895	200.0	194.1	
						RPD = 3.99	
13 Endrin ketone							
1	5.763	5.760	0.003	76241656	200.0	193.0	
2	5.004	4.999	0.005	104085423	200.0	198.9	
						RPD = 3.03	
$ 24 DCB Decachlorobiphenyl							
1	6.823	6.821	0.002	21641773	100.0	78.6	
2	5.724	5.720	0.004	32764094	100.0	78.2	
						RPD = 0.40	

Reagents:

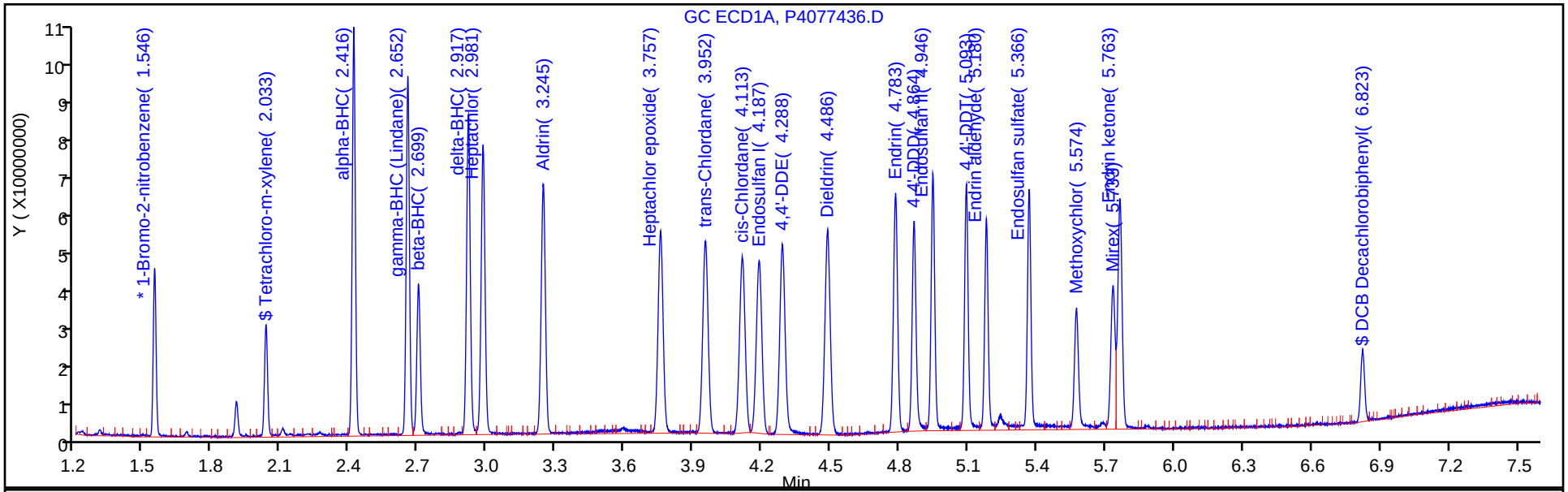
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

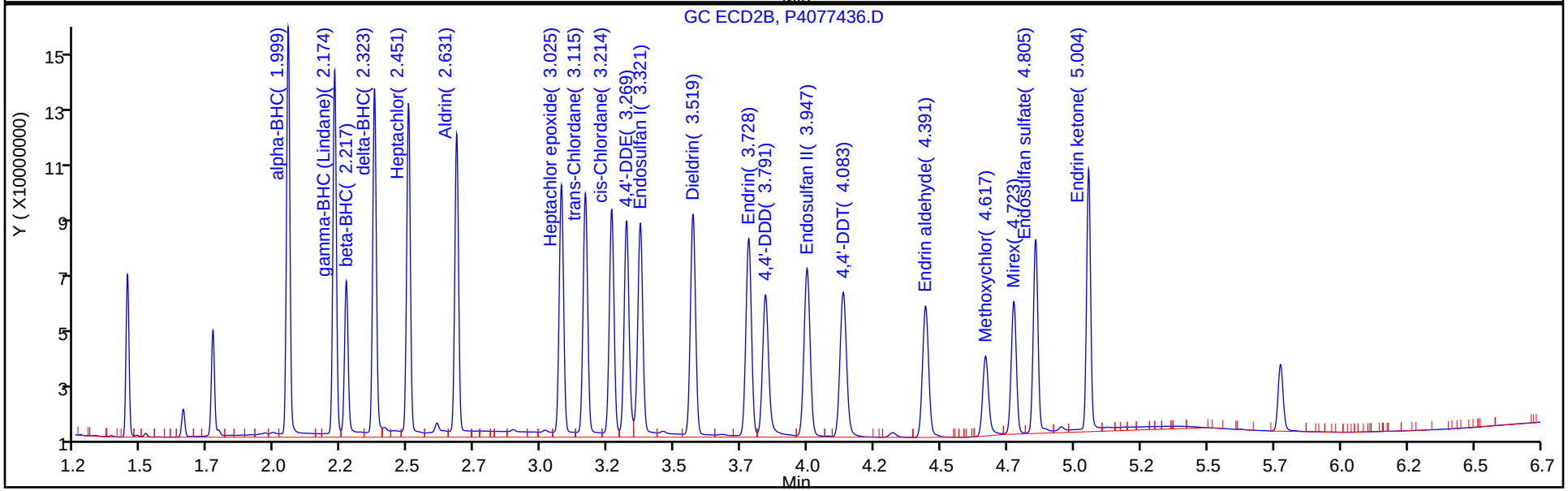
Report Date: 16-Apr-2018 13:27:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077436.D

Injection Date:	16-Apr-2018 10:06:20	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LCS 460-511212/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		





FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-511212/3-A

Matrix: Solid | Lab File ID: P4077437.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:17

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

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	*Endrin*	*0.775*		*0.50*	*0.0040*
58-89-9	*gamma-BHC (Lindane)*	*0.689*		*0.50*	*0.012*
76-44-8	*Heptachlor*	*0.671*		*0.50*	*0.0030*
1024-57-3	*Heptachlor epoxide*	*0.721*		*0.50*	*0.0050*
72-43-5	Methoxychlor	0.794		0.50	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	77		10-150
877-09-8	Tetrachloro-m-xylene	65		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077437.D
Lims ID: LCSD 460-511212/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 16-Apr-2018 10:17:51 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.545	1.544	0.001	42623874	100.0	100.0	
2	1.397	1.393	0.004	55618828	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.030	2.030	0.000	27681595	100.0	65.1	
2	1.719	1.713	0.006	37397434	100.0	71.0	
						RPD = 8.73	
15 alpha-BHC							
1	2.414	2.413	0.001	106201681	200.0	173.0	
2	2.002	1.996	0.006	144872903	200.0	189.0	
						RPD = 8.83	
2 gamma-BHC (Lindane)							
1	2.650	2.649	0.001	98189014	200.0	172.3	
2	2.177	2.171	0.006	133798713	200.0	191.2	
						RPD = 10.39	
6 beta-BHC							
1	2.696	2.695	0.001	44802940	200.0	180.0	
2	2.221	2.214	0.007	59893137	200.0	197.5	
						RPD = 9.24	
32 delta-BHC							
1	2.912	2.913	-0.001	99840751	200.0	171.8	
2	2.327	2.320	0.007	135745931	200.0	194.2	
						RPD = 12.27	
18 Heptachlor							
1	2.977	2.977	0.000	94775355	200.0	167.7	
2	2.454	2.447	0.007	127016445	200.0	184.9	
						RPD = 9.78	
8 Aldrin							
1	3.240	3.240	0.000	89877004	200.0	168.7	
2	2.635	2.628	0.007	118370389	200.0	186.2	
						RPD = 9.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.752	3.752	0.000	87449206	200.0	180.3	
2	3.028	3.021	0.007	115727842	200.0	193.1	
						RPD = 6.83	
9 trans-Chlordane							
1	3.948	3.950	-0.002	87399014	200.0	180.1	
2	3.118	3.110	0.008	117667102	200.0	197.5	
						RPD = 9.20	
23 cis-Chlordane							
1	4.108	4.107	0.001	82756157	200.0	180.4	
2	3.217	3.209	0.008	112989183	200.0	195.1	
						RPD = 7.83	
7 Endosulfan I							
1	4.182	4.180	0.002	80111635	200.0	180.2	
2	3.324	3.317	0.007	112617002	200.0	199.2	
						RPD = 10.01	
25 4,4'-DDE							
1	4.283	4.282	0.001	89462132	200.0	195.3	
2	3.272	3.264	0.008	115786855	200.0	201.4	
						RPD = 3.08	
30 Dieldrin							
1	4.480	4.480	0.000	91153968	200.0	187.4	
2	3.522	3.513	0.009	121006406	200.0	193.8	
						RPD = 3.33	
20 Endrin							
1	4.778	4.777	0.001	83418505	200.0	193.9	
2	3.732	3.722	0.010	114946956	200.0	199.0	
						RPD = 2.61	
16 4,4'-DDD							
1	4.859	4.859	0.000	70692480	200.0	184.4	
2	3.793	3.784	0.009	94132174	200.0	187.7	
						RPD = 1.80	
11 Endosulfan II							
1	4.942	4.942	0.000	77336960	200.0	186.5	
2	3.949	3.941	0.008	108275269	200.0	198.5	
						RPD = 6.22	
21 4,4'-DDT							
1	5.089	5.088	0.001	75098173	200.0	185.3	
2	4.085	4.076	0.009	101756708	200.0	195.7	
						RPD = 5.44	
5 Endrin aldehyde							
1	5.177	5.176	0.001	62755635	200.0	179.9	
2	4.395	4.385	0.010	84985180	200.0	186.8	
						RPD = 3.76	
3 Endosulfan sulfate							
1	5.364	5.363	0.001	72947860	200.0	182.2	
2	4.806	4.799	0.007	95273689	200.0	171.2	
						RPD = 6.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.569	5.570	-0.001	43876065	200.0	198.4	
2	4.618	4.610	0.008	50518464	200.0	173.4	
						RPD = 13.44	
34 Mirex							
1	5.729	5.729	0.000	51981221	200.0	183.5	
2	4.724	4.717	0.007	69585441	200.0	174.1	
						RPD = 5.22	
13 Endrin ketone							
1	5.759	5.760	-0.001	84896967	200.0	188.2	
2	5.004	4.999	0.005	108040376	200.0	171.6	
						RPD = 9.20	
$ 24 DCB Decachlorobiphenyl							
1	6.821	6.821	0.000	24147828	100.0	76.7	
2	5.723	5.720	0.003	34591537	100.0	68.7	
						RPD = 11.13	

Reagents:

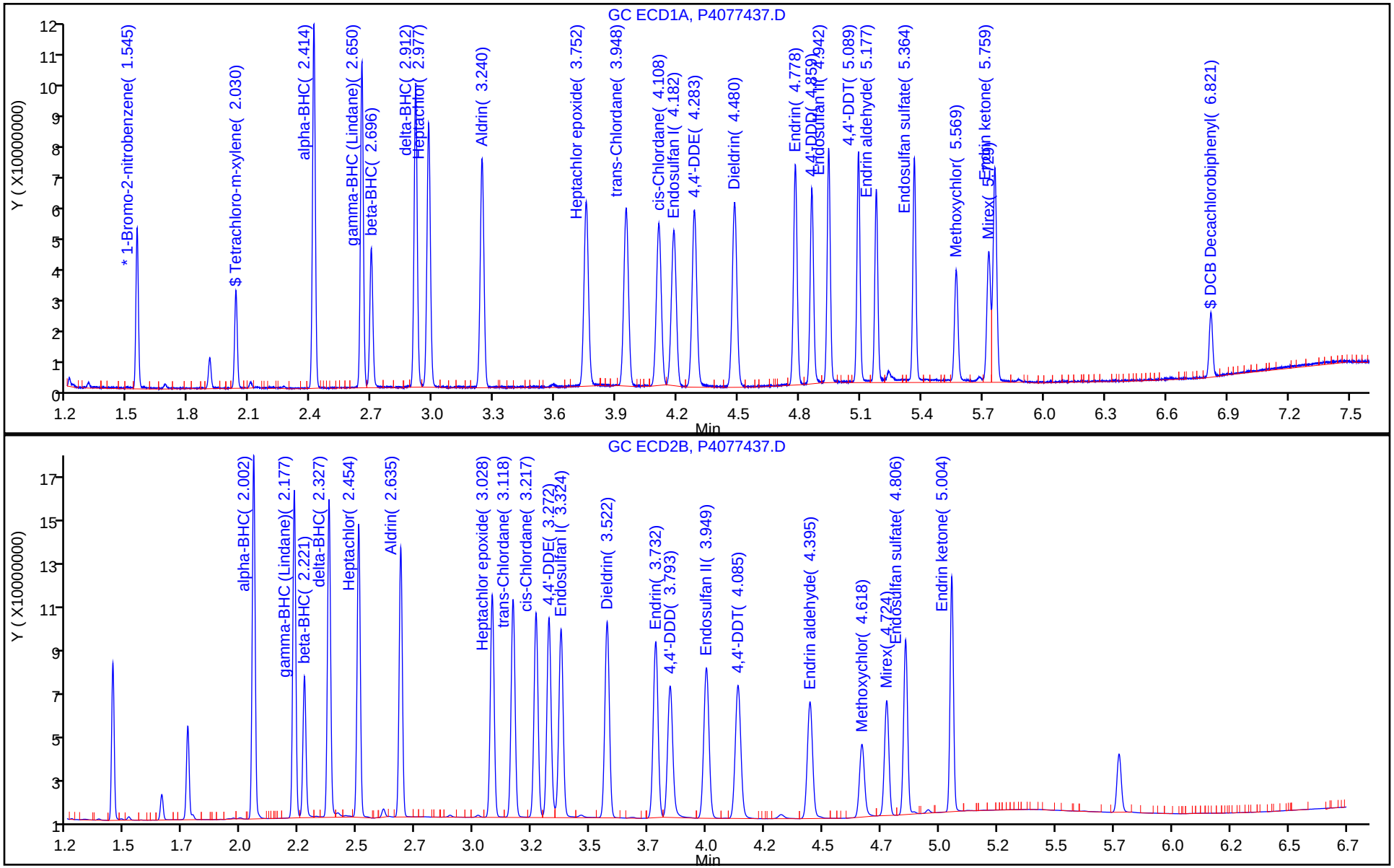
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 16-Apr-2018 13:27:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077437.D

Injection Date:	16-Apr-2018 10:17:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LCSD 460-511212/3-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-511212/3-A

Matrix: Solid | Lab File ID: P4077437.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/15/2018 10:25

Sample wt/vol: 250(mL) | Date Analyzed: 04/16/2018 10:17

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

Injection Volume: 1(uL) | GC Column: Rtx-CLP ID: 0.53(mm)

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

Analysis Batch No.: 511361 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	Endrin	0.796		0.50	0.0040
58-89-9	gamma-BHC (Lindane)	0.765		0.50	0.012
76-44-8	Heptachlor	0.740		0.50	0.0030
1024-57-3	Heptachlor epoxide	0.772		0.50	0.0050
72-43-5	*Methoxychlor*	*0.694*		*0.50*	*0.0040*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		10-150
877-09-8	Tetrachloro-m-xylene	71		12-136

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077437.D
Lims ID: LCSD 460-511212/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 16-Apr-2018 10:17:51 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC4

Method: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\GC-4 8081 ISTD.m
Limit Group: GC 8081B PEST ISTD
Last Update: 16-Apr-2018 13:27:35 Calib Date: 27-Sep-2017 11:58:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC4\20170926-60919.b\P4004898.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 37 1-Bromo-2-nitrobenzene							
1	1.545	1.544	0.001	42623874	100.0	100.0	
2	1.397	1.393	0.004	55618828	100.0	100.0	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.030	2.030	0.000	27681595	100.0	65.1	
2	1.719	1.713	0.006	37397434	100.0	71.0	
						RPD = 8.73	
15 alpha-BHC							
1	2.414	2.413	0.001	106201681	200.0	173.0	
2	2.002	1.996	0.006	144872903	200.0	189.0	
						RPD = 8.83	
2 gamma-BHC (Lindane)							
1	2.650	2.649	0.001	98189014	200.0	172.3	
2	2.177	2.171	0.006	133798713	200.0	191.2	
						RPD = 10.39	
6 beta-BHC							
1	2.696	2.695	0.001	44802940	200.0	180.0	
2	2.221	2.214	0.007	59893137	200.0	197.5	
						RPD = 9.24	
32 delta-BHC							
1	2.912	2.913	-0.001	99840751	200.0	171.8	
2	2.327	2.320	0.007	135745931	200.0	194.2	
						RPD = 12.27	
18 Heptachlor							
1	2.977	2.977	0.000	94775355	200.0	167.7	
2	2.454	2.447	0.007	127016445	200.0	184.9	
						RPD = 9.78	
8 Aldrin							
1	3.240	3.240	0.000	89877004	200.0	168.7	
2	2.635	2.628	0.007	118370389	200.0	186.2	
						RPD = 9.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	3.752	3.752	0.000	87449206	200.0	180.3	
2	3.028	3.021	0.007	115727842	200.0	193.1	
						RPD = 6.83	
9 trans-Chlordane							
1	3.948	3.950	-0.002	87399014	200.0	180.1	
2	3.118	3.110	0.008	117667102	200.0	197.5	
						RPD = 9.20	
23 cis-Chlordane							
1	4.108	4.107	0.001	82756157	200.0	180.4	
2	3.217	3.209	0.008	112989183	200.0	195.1	
						RPD = 7.83	
7 Endosulfan I							
1	4.182	4.180	0.002	80111635	200.0	180.2	
2	3.324	3.317	0.007	112617002	200.0	199.2	
						RPD = 10.01	
25 4,4'-DDE							
1	4.283	4.282	0.001	89462132	200.0	195.3	
2	3.272	3.264	0.008	115786855	200.0	201.4	
						RPD = 3.08	
30 Dieldrin							
1	4.480	4.480	0.000	91153968	200.0	187.4	
2	3.522	3.513	0.009	121006406	200.0	193.8	
						RPD = 3.33	
20 Endrin							
1	4.778	4.777	0.001	83418505	200.0	193.9	
2	3.732	3.722	0.010	114946956	200.0	199.0	
						RPD = 2.61	
16 4,4'-DDD							
1	4.859	4.859	0.000	70692480	200.0	184.4	
2	3.793	3.784	0.009	94132174	200.0	187.7	
						RPD = 1.80	
11 Endosulfan II							
1	4.942	4.942	0.000	77336960	200.0	186.5	
2	3.949	3.941	0.008	108275269	200.0	198.5	
						RPD = 6.22	
21 4,4'-DDT							
1	5.089	5.088	0.001	75098173	200.0	185.3	
2	4.085	4.076	0.009	101756708	200.0	195.7	
						RPD = 5.44	
5 Endrin aldehyde							
1	5.177	5.176	0.001	62755635	200.0	179.9	
2	4.395	4.385	0.010	84985180	200.0	186.8	
						RPD = 3.76	
3 Endosulfan sulfate							
1	5.364	5.363	0.001	72947860	200.0	182.2	
2	4.806	4.799	0.007	95273689	200.0	171.2	
						RPD = 6.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Methoxychlor							
1	5.569	5.570	-0.001	43876065	200.0	198.4	
2	4.618	4.610	0.008	50518464	200.0	173.4	
						RPD = 13.44	
34 Mirex							
1	5.729	5.729	0.000	51981221	200.0	183.5	
2	4.724	4.717	0.007	69585441	200.0	174.1	
						RPD = 5.22	
13 Endrin ketone							
1	5.759	5.760	-0.001	84896967	200.0	188.2	
2	5.004	4.999	0.005	108040376	200.0	171.6	
						RPD = 9.20	
$ 24 DCB Decachlorobiphenyl							
1	6.821	6.821	0.000	24147828	100.0	76.7	
2	5.723	5.720	0.003	34591537	100.0	68.7	
						RPD = 11.13	

Reagents:

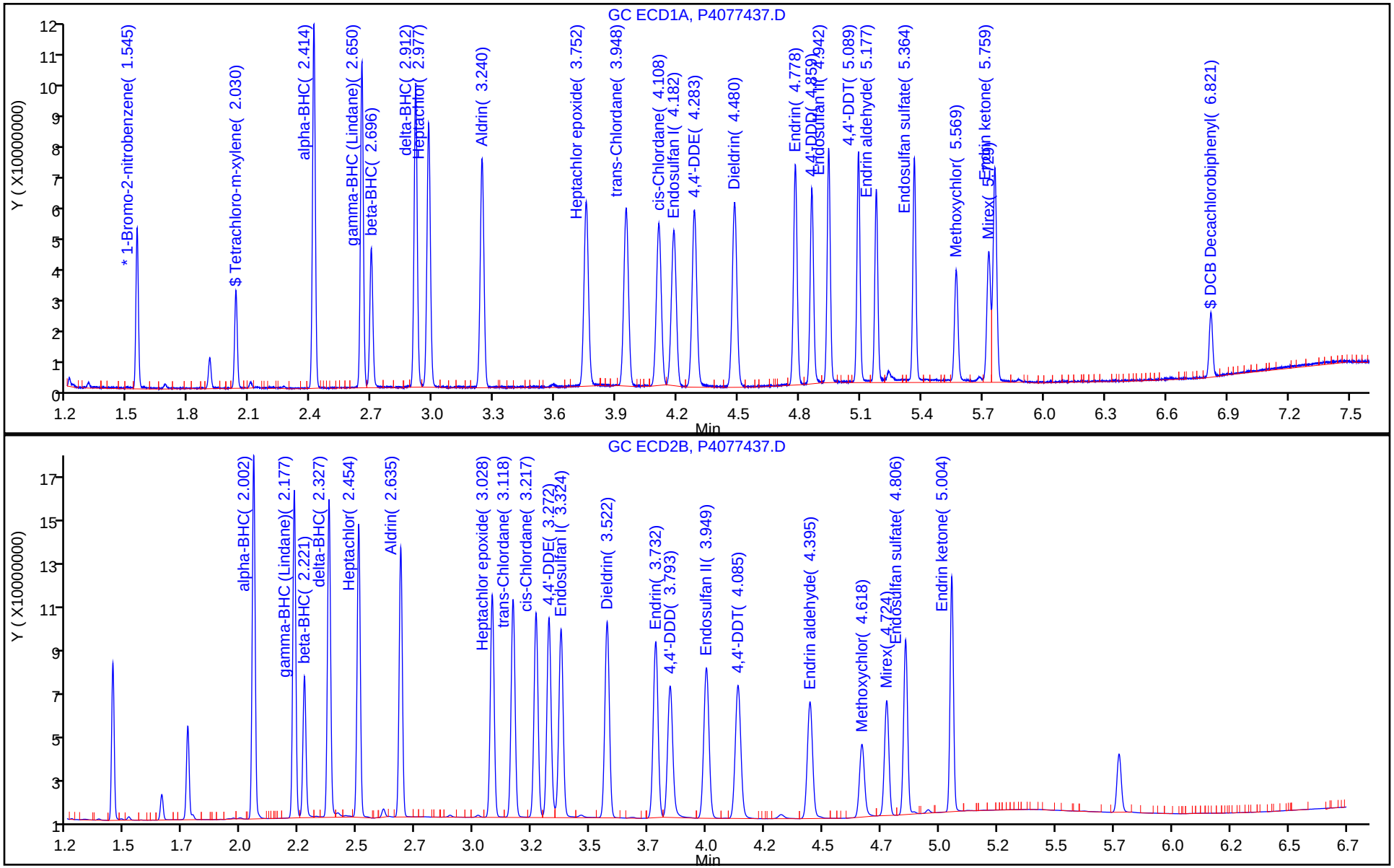
SGPESTISTD_00007 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 16-Apr-2018 13:27:49 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC4\20180416-70435.b\P4077437.D

Injection Date:	16-Apr-2018 10:17:51	Instrument ID:	CPESTGC4	Operator ID:	
Lims ID:	LCSD 460-511212/3-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	GC-4 8081 ISTD	Limit Group:	GC 8081B PEST ISTD		



PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 09/27/2017 07:50

Analysis Batch Number: 465107 End Date: 09/27/2017 11:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/27/2017 07:50	1		CLP-2 0.53(mm)
ZZZZZ		09/27/2017 07:50	1		Rtx-CLP 0.53(mm)
PEM 460-465107/2		09/27/2017 08:03	1		CLP-2 0.53(mm)
PEM 460-465107/2		09/27/2017 08:03	1		Rtx-CLP 0.53(mm)
STD 460-465107/3 IC		09/27/2017 08:22	1	P4004882.D	CLP-2 0.53(mm)
STD 460-465107/3 IC		09/27/2017 08:22	1	P4004882.D	Rtx-CLP 0.53(mm)
STD 460-465107/4 IC		09/27/2017 08:34	1	P4004883.D	CLP-2 0.53(mm)
STD 460-465107/4 IC		09/27/2017 08:34	1	P4004883.D	Rtx-CLP 0.53(mm)
STD 460-465107/5 ICIS		09/27/2017 08:46	1	P4004884.D	CLP-2 0.53(mm)
STD 460-465107/5 ICIS		09/27/2017 08:46	1	P4004884.D	Rtx-CLP 0.53(mm)
STD 460-465107/6 IC		09/27/2017 08:58	1	P4004885.D	CLP-2 0.53(mm)
STD 460-465107/6 IC		09/27/2017 08:58	1	P4004885.D	Rtx-CLP 0.53(mm)
STD 460-465107/7 IC		09/27/2017 09:10	1	P4004886.D	CLP-2 0.53(mm)
STD 460-465107/7 IC		09/27/2017 09:10	1	P4004886.D	Rtx-CLP 0.53(mm)
ICV 460-465107/8		09/27/2017 09:40	1		CLP-2 0.53(mm)
ICV 460-465107/8		09/27/2017 09:40	1		Rtx-CLP 0.53(mm)
IC 460-465107/9 ICIS		09/27/2017 09:52	1		CLP-2 0.53(mm)
IC 460-465107/9 ICIS		09/27/2017 09:52	1		Rtx-CLP 0.53(mm)
IC 460-465107/10		09/27/2017 10:11	1	P4004889.D	CLP-2 0.53(mm)
IC 460-465107/10		09/27/2017 10:11	1	P4004889.D	Rtx-CLP 0.53(mm)
IC 460-465107/11		09/27/2017 10:23	1	P4004890.D	CLP-2 0.53(mm)
IC 460-465107/11		09/27/2017 10:23	1	P4004890.D	Rtx-CLP 0.53(mm)
IC 460-465107/12 ICIS		09/27/2017 10:36	1	P4004891.D	CLP-2 0.53(mm)
IC 460-465107/12 ICIS		09/27/2017 10:36	1	P4004891.D	Rtx-CLP 0.53(mm)
IC 460-465107/13		09/27/2017 10:47	1	P4004892.D	CLP-2 0.53(mm)
IC 460-465107/13		09/27/2017 10:47	1	P4004892.D	Rtx-CLP 0.53(mm)
IC 460-465107/14		09/27/2017 10:59	1	P4004893.D	CLP-2 0.53(mm)
IC 460-465107/14		09/27/2017 10:59	1	P4004893.D	Rtx-CLP 0.53(mm)
IC 460-465107/15		09/27/2017 11:11	1	P4004894.D	CLP-2 0.53(mm)
IC 460-465107/15		09/27/2017 11:11	1	P4004894.D	Rtx-CLP 0.53(mm)
IC 460-465107/16		09/27/2017 11:23	1	P4004895.D	CLP-2 0.53(mm)
IC 460-465107/16		09/27/2017 11:23	1	P4004895.D	Rtx-CLP 0.53(mm)
IC 460-465107/17 ICIS		09/27/2017 11:34	1	P4004896.D	CLP-2 0.53(mm)
IC 460-465107/17 ICIS		09/27/2017 11:34	1	P4004896.D	Rtx-CLP 0.53(mm)
IC 460-465107/18		09/27/2017 11:46	1	P4004897.D	CLP-2 0.53(mm)
IC 460-465107/18		09/27/2017 11:46	1	P4004897.D	Rtx-CLP 0.53(mm)
IC 460-465107/19		09/27/2017 11:58	1	P4004898.D	CLP-2 0.53(mm)
IC 460-465107/19		09/27/2017 11:58	1	P4004898.D	Rtx-CLP 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 04/16/2018 07:48

Analysis Batch Number: 511361 End Date: 04/16/2018 16:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/16/2018 07:48	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 07:48	1		Rtx-CLP 0.53(mm)
PEM 460-511361/2		04/16/2018 08:01	1	P4077429.D	CLP-2 0.53(mm)
PEM 460-511361/2		04/16/2018 08:01	1	P4077429.D	Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 08:14	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 08:14	1		Rtx-CLP 0.53(mm)
CCV 460-511361/4		04/16/2018 08:27	1		CLP-2 0.53(mm)
CCV 460-511361/4		04/16/2018 08:27	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 08:39	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 08:39	1		Rtx-CLP 0.53(mm)
CCV 460-511361/6		04/16/2018 09:14	1	P4077433.D	CLP-2 0.53(mm)
CCV 460-511361/6		04/16/2018 09:14	1	P4077433.D	Rtx-CLP 0.53(mm)
CCVIS 460-511361/7		04/16/2018 09:27	1	P4077434.D	CLP-2 0.53(mm)
CCVIS 460-511361/7		04/16/2018 09:27	1	P4077434.D	Rtx-CLP 0.53(mm)
MB 460-511212/1-A		04/16/2018 09:53	1	P4077435.D	CLP-2 0.53(mm)
MB 460-511212/1-A		04/16/2018 09:53	1	P4077435.D	Rtx-CLP 0.53(mm)
LCS 460-511212/2-A		04/16/2018 10:06	1	P4077436.D	CLP-2 0.53(mm)
LCS 460-511212/2-A		04/16/2018 10:06	1	P4077436.D	Rtx-CLP 0.53(mm)
LCSD 460-511212/3-A		04/16/2018 10:17	1	P4077437.D	CLP-2 0.53(mm)
LCSD 460-511212/3-A		04/16/2018 10:17	1	P4077437.D	Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 10:30	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 10:30	1		Rtx-CLP 0.53(mm)
460-153774-1		04/16/2018 10:41	1	P4077439.D	CLP-2 0.53(mm)
460-153774-1		04/16/2018 10:41	1	P4077439.D	Rtx-CLP 0.53(mm)
LB 460-511103/1-C		04/16/2018 10:54	1	P4077440.D	CLP-2 0.53(mm)
LB 460-511103/1-C		04/16/2018 10:54	1	P4077440.D	Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 11:05	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 11:05	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 11:17	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 11:17	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 11:29	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 11:29	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 11:41	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 11:41	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 11:52	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 11:52	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 12:04	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 12:04	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 12:16	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 12:16	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 12:28	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 12:28	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 12:40	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 12:40	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 12:51	1		CLP-2 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC4 Start Date: 04/16/2018 07:48

Analysis Batch Number: 511361 End Date: 04/16/2018 16:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/16/2018 12:51	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 13:03	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 13:03	1		Rtx-CLP 0.53(mm)
ZZZZZ		04/16/2018 14:59	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2018 14:59	1		Rtx-CLP 0.53(mm)
		04/16/2018 15:12	1		CLP-2 0.53(mm)
		04/16/2018 15:12	1		Rtx-CLP 0.53(mm)
		04/16/2018 15:35	1		CLP-2 0.53(mm)
		04/16/2018 15:35	1		Rtx-CLP 0.53(mm)
		04/16/2018 15:46	1		CLP-2 0.53(mm)
		04/16/2018 15:46	1		Rtx-CLP 0.53(mm)
		04/16/2018 15:58	1		CLP-2 0.53(mm)
		04/16/2018 15:58	1		Rtx-CLP 0.53(mm)
		04/16/2018 16:11	1		CLP-2 0.53(mm)
		04/16/2018 16:11	1		Rtx-CLP 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	VesselNumber	FiltCompDate
LB 460-511103/1		1311, 3510C, 8081B		100 g	2000 mL	4.92 SU		BB0	4/14/18
460-153774-A-1	AshPit	1311, 3510C, 8081B	P	100.07 g	2000 mL	9.06 SU	1.67	AA2	4/14/18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
LB 460-511103/1		1311, 3510C, 8081B		0700	4.92 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		
460-153774-A-1	AshPit	1311, 3510C, 8081B	P	0830	6.14 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511212 Batch Start Date: 04/15/18 10:25 Batch Analyst: Yallabandi, Gopichand X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	OP_PESTSP_LVI 00017	OPPSPCBSU_LVI 00014	
MB 460-511212/1		3510C, 8081B		250 mL	1 mL	7 SU		50 uL	
LCS 460-511212/2		3510C, 8081B		250 mL	1 mL	7 SU	50 uL	50 uL	
LCSD 460-511212/3		3510C, 8081B		250 mL	1 mL	7 SU	50 uL	50 uL	
LB 460-511103/1-A		3510C, 8081B		250 mL	1 mL	5 SU		50 uL	
460-153774-A-1-A	AshPit	3510C, 8081B	P	250 mL	1 mL	7 SU		50 uL	

Batch Notes	
Base Used to Adjust pH ID	OP2414
Batch Comment	8081 Pest water
Analyst ID - Concentration	gy
Analyst ID - Extraction	gy
Method/Fraction	8081 Pest WATER
Na2SO4 ID	176006
Prep Solvent ID	MeCL2 196137 hexane 190077
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	gy
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8151A

Herbicides (GC) by Method 8151A

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): DB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #	DCPAA2 #
AshPit	460-153774-1	133	130
	MB 460-511289/1-A	107	110
	LCS 460-511289/2-A	117	113
	460-153622-I-22-H MS	122	114
	460-153622-I-22-I MSD	129	126

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid	54-150

Column to be used to flag recovery values

FORM II 8151A

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1F002915.D

Lab ID: LCS 460-511289/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-D	267	351	132	48-119	*
2,4-D	267	247	93	48-119	
Silvex (2,4,5-TP)	66.7	97.0	145	76-150	
Silvex (2,4,5-TP)	66.7	87.6	131	76-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: 1F002916.D

Lab ID: 460-153622-I-22-H MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-D	267	5.0 U	397	149	48-119	F1
2,4-D	267	5.0 U	258	97	48-119	p
Silvex (2,4,5-TP)	66.7	4.0 U	101	151	76-150	F1
Silvex (2,4,5-TP)	66.7	4.0 U	87.7	132	76-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: 1F002917.D

Lab ID: 460-153622-I-22-I MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-D	267	431	162	8	30	48-119	F1
2,4-D	267	277	104	7	30	48-119	p
Silvex (2,4,5-TP)	66.7	107	160	6	30	76-150	F1
Silvex (2,4,5-TP)	66.7	91.8	138	5	30	76-150	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: MB 460-511289/1-A

Matrix: Water Date Extracted: 04/16/2018 00:41

Lab File ID:(1) 1F002914.D Lab File ID:(2) 1F002914.D

Date Analyzed:(1) 04/16/2018 08:43 Date Analyzed:(2) 04/16/2018 08:43

Instrument ID:(1) CPESTGC1 Instrument ID:(2) CPESTGC1

GC Column:(1) DB-608 ID: 0.53(mm) GC Column:(2) DB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 460-511289/2-A	04/16/2018 08:59	04/16/2018 08:59
	460-153622-I-22-H MS	04/16/2018 09:16	04/16/2018 09:16
	460-153622-I-22-I MSD	04/16/2018 09:33	04/16/2018 09:33
AshPit	460-153774-1	04/16/2018 10:57	04/16/2018 10:57

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-511289/2-A

Instrument ID (1): CPESTGC1 Instrument ID (2): CPESTGC1

Date Analyzed (1): 04/16/2018 08:59 Date Analyzed (2): 04/16/2018 08:59

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): DB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		5.70	5.65	5.79	247		34.7
	2		6.66	6.59	6.73	351		
Silvex (2,4,5-TP)	1		6.48	6.43	6.57	87.6		10.1
	2		7.54	7.48	7.62	97.0		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-153622-I-22-H MS

Instrument ID (1): CPESTGC1 Instrument ID (2): CPESTGC1

Date Analyzed (1): 04/16/2018 09:16 Date Analyzed (2): 04/16/2018 09:16

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): DB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		5.70	5.65	5.79	258		42.6
	2		6.65	6.59	6.73	397		
Silvex (2,4,5-TP)	1		6.48	6.43	6.57	87.7		13.8
	2		7.53	7.48	7.62	101		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-153622-I-22-I MSD

Instrument ID (1): CPESTGC1 Instrument ID (2): CPESTGC1

Date Analyzed (1): 04/16/2018 09:33 Date Analyzed (2): 04/16/2018 09:33

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): DB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		5.70	5.65	5.79	277		43.4
	2		6.65	6.59	6.73	431		
Silvex (2,4,5-TP)	1		6.48	6.43	6.57	91.8		15.0
	2		7.53	7.48	7.62	107		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: AshPit | Lab Sample ID: 460-153774-1

Matrix: Solid (TCLP) | Lab File ID: 1F002922.D

Analysis Method: 8151A | Date Collected: 04/11/2018 11:45

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 10:57

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-5 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	130		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D
Lims ID: 460-153774-A-1-E
Client ID: AshPit
Sample Type: Client
Inject. Date: 16-Apr-2018 10:57:21 ALS Bottle#: 63 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 11:44:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	5.445	5.455	-0.010	428840	1298.8	
2	4.782	4.793	-0.011	214802	1333.5	
					RPD = 2.64	

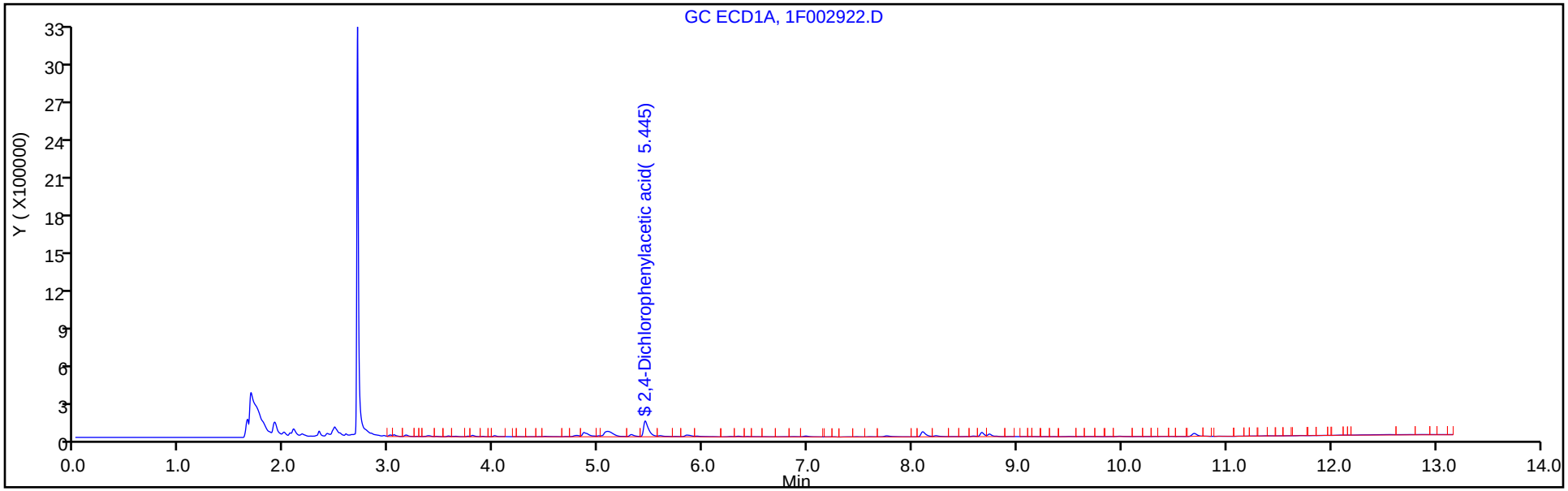
Report Date: 16-Apr-2018 13:18:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

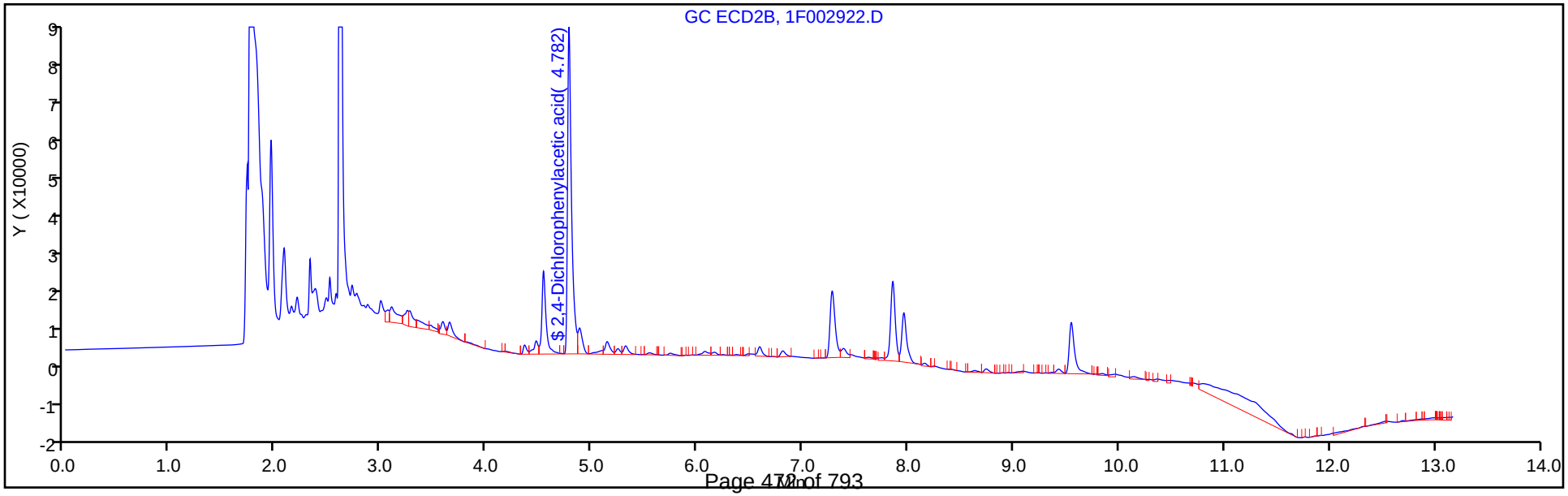
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D

Injection Date:	16-Apr-2018 10:57:21	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153774-A-1-E	Lab Sample ID:	460-153774-1	Worklist Smp#:	10
Client ID:	AshPit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	63
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



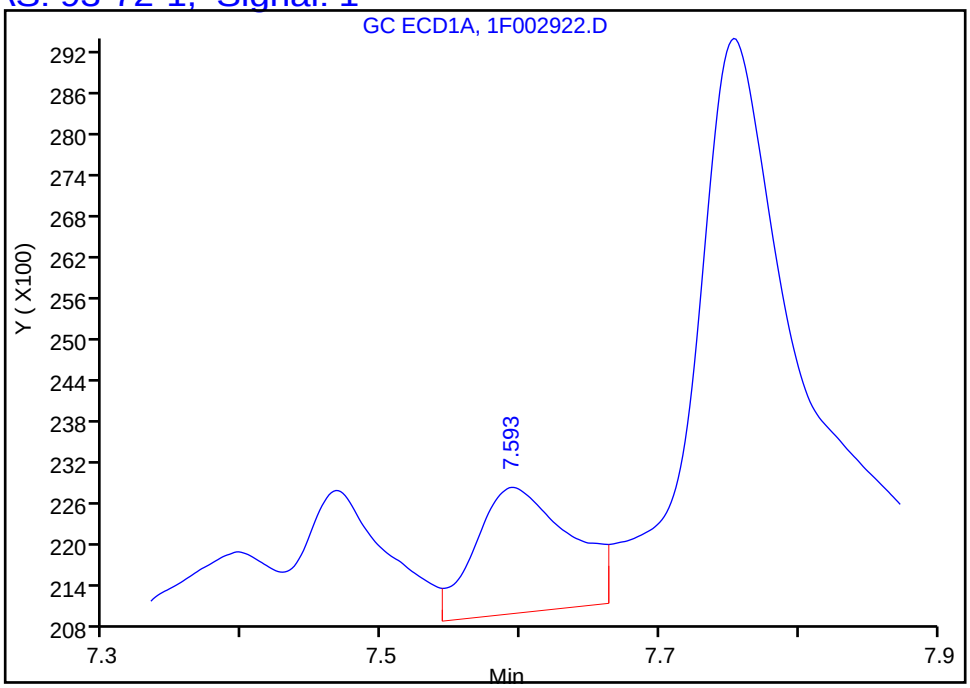
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D				
Injection Date:	16-Apr-2018 10:57:21	Instrument ID:	CPESTGC1		
Lims ID:	460-153774-A-1-E	Lab Sample ID:	460-153774-1		
Client ID:	AshPit				
Operator ID:		ALS Bottle#:	63	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		
Column:	DB-5 (0.53 mm)	Detector	GC ECD1A		

3 Silvex (2,4,5-TP), CAS: 93-72-1, Signal: 1

RT: 7.59
Response: 8750
Amount: 6.829820



Reviewer: kapoors, 16-Apr-2018 11:44:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: AshPit | Lab Sample ID: 460-153774-1

Matrix: Solid (TCLP) | Lab File ID: 1F002922.D

Analysis Method: 8151A | Date Collected: 04/11/2018 11:45

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 10:57

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-608 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	5.0	U	83	5.0
93-72-1	Silvex (2,4,5-TP)	4.0	U	83	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	133		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D				
Lims ID:	460-153774-A-1-E				
Client ID:	AshPit				
Sample Type:	Client				
Inject. Date:	16-Apr-2018 10:57:21	ALS Bottle#:	63	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:		Instrument ID:	CPESTGC1		
Method:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m				
Limit Group:	SV GC 8151 HERBS ICAL				
Last Update:	16-Apr-2018 13:18:32	Calib Date:	17-Jan-2018 12:36:54		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D				
Column 1 :	DB-5 (0.53 mm)		Det: GC ECD1A		
Column 2 :	DB-608 (0.53 mm)		Det: GC ECD2B		
Process Host:	XAWRK018				

First Level Reviewer: kapoors Date: 16-Apr-2018 11:44:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	5.445	5.455	-0.010	428840	1298.8	
2	4.782	4.793	-0.011	214802	1333.5	
					RPD = 2.64	

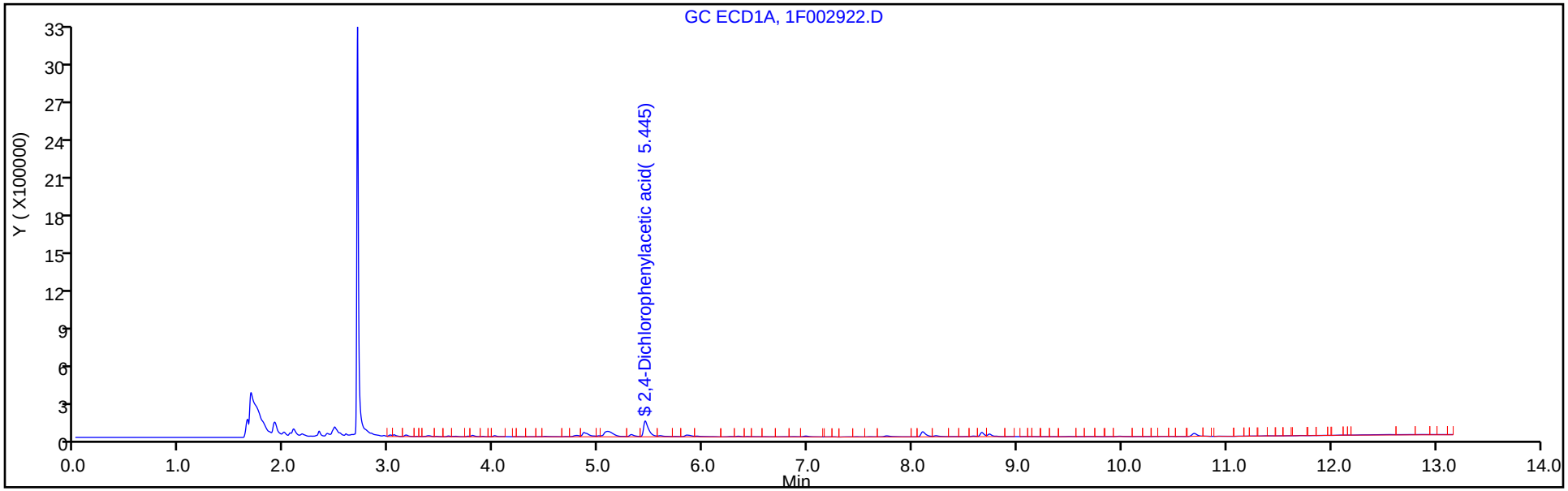
Report Date: 16-Apr-2018 13:18:56 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

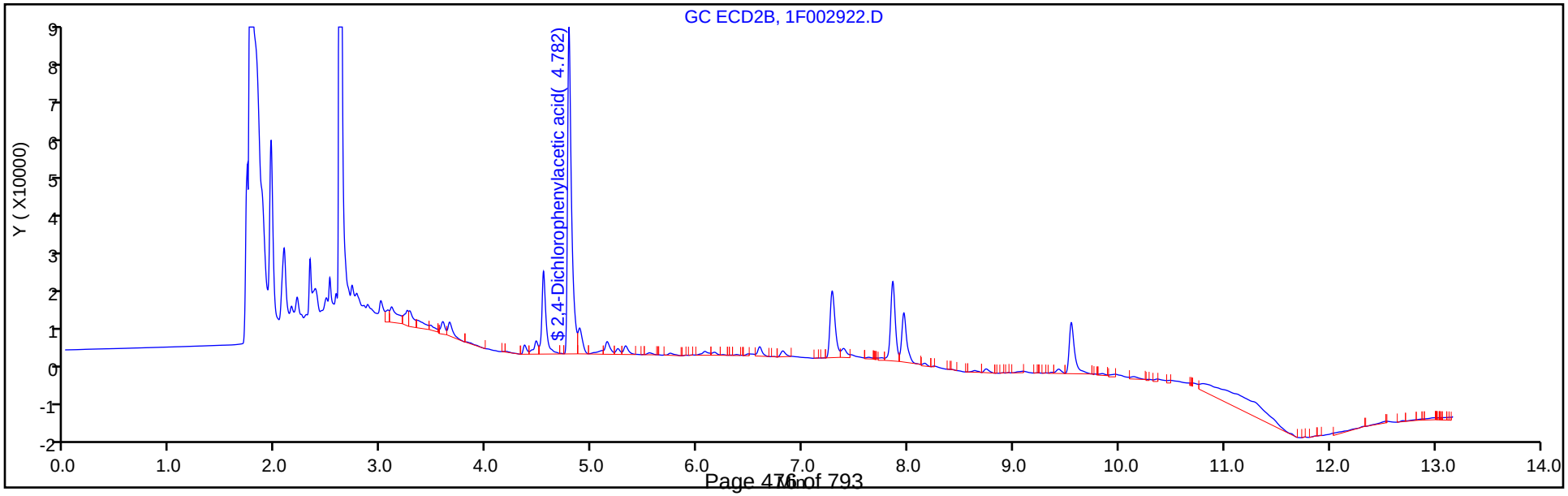
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D

Injection Date:	16-Apr-2018 10:57:21	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153774-A-1-E	Lab Sample ID:	460-153774-1	Worklist Smp#:	10
Client ID:	AshPit				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	63
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



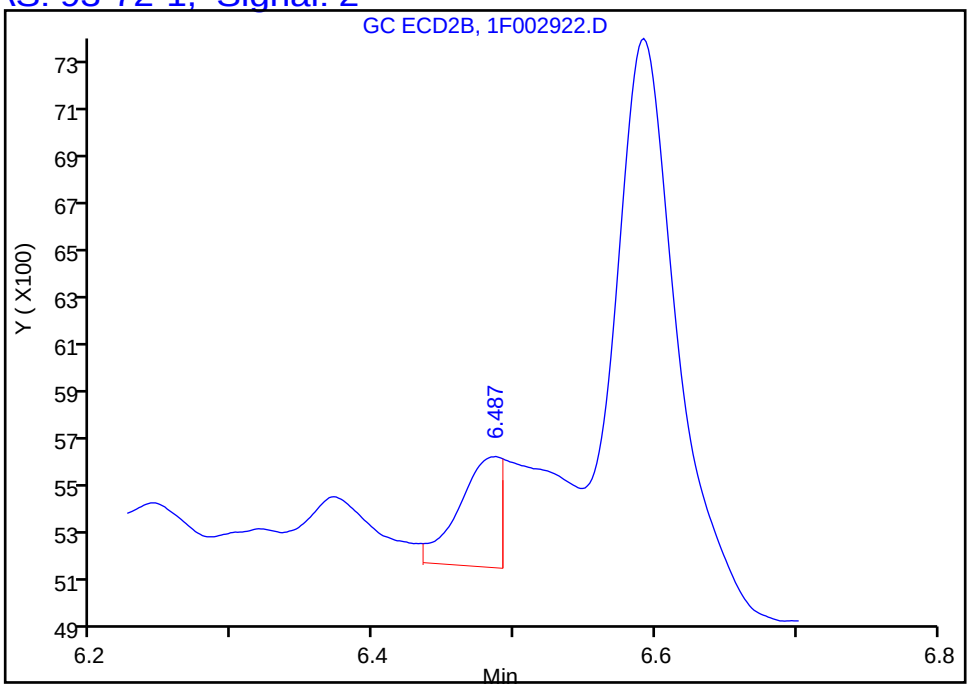
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002922.D				
Injection Date:	16-Apr-2018 10:57:21	Instrument ID:	CPESTGC1		
Lims ID:	460-153774-A-1-E	Lab Sample ID:	460-153774-1		
Client ID:	AshPit				
Operator ID:		ALS Bottle#:	63	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		
Column:	DB-608 (0.53 mm)	Detector	GC ECD2B		

3 Silvex (2,4,5-TP), CAS: 93-72-1, Signal: 2

RT: 6.49
Response: 956
Amount: 1.296389



Reviewer: kapoors, 16-Apr-2018 11:44:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
2,4-D	6.682	6.673	6.673	6.670	6.668						6.600 - 6.740	6.673
Silvex (2,4,5-TP)	7.565	7.555	7.557	7.553	7.553						7.483 - 7.623	7.557
2,4,5-T	7.982	7.973	7.973	7.970	7.970						7.900 - 8.040	7.974
2,4-Dichlorophenylacetic acid	5.477	5.467	5.467	5.465	5.465						5.395 - 5.535	5.468

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
2,4-D	414.59 345.67	432.68	417.94	382.14	Ave		398.602410				8.7		20.0			
Silvex (2,4,5-TP)	1290.3 1193.8	1344.9	1322.6	1254.2	Ave		1281.14653				4.7		20.0			
2,4,5-T	1424.1 1287.6	1477.6	1442.7	1356.5	Ave		1397.68793				5.4		20.0			
2,4-Dichlorophenylacetic acid	416.26 260.81	354.49	329.24	290.16	Ave		330.193400				18.2		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
2,4-D	Ave	104631	218393	316433	578657	1046861	252	505	757	1514	3029
Silvex (2,4,5-TP)	Ave	325805	679169	1001838	1900136	3617072	253	505	758	1515	3030
2,4,5-T	Ave	356017	738801	1082051	2034719	3862667	250	500	750	1500	3000
2,4-Dichlorophenylacetic acid	Ave	41626	354487	493865	870491	1564878	100	1000	1500	3000	6000

Curve Type Legend:
Ave = Average

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001926.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jan-2018 11:30:44 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:20 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.477	5.465	0.012	41626	100.0	126.1	
2	4.810	4.808	0.002	17192	100.0	106.7	
						RPD = 16.61	
2 2,4-D							
1	6.682	6.670	0.012	104631	252.4	262.5	
2	5.732	5.730	0.002	44229	252.4	234.5	
						RPD = 11.27	
3 Silvex (2,4,5-TP)							
1	7.565	7.553	0.012	325805	252.5	254.3	
2	6.510	6.510	0.000	181752	252.5	246.5	
						RPD = 3.13	
4 2,4,5-T							
1	7.982	7.970	0.012	356017	250.0	254.7	
2	6.780	6.775	0.005	174481	250.0	239.9	
						RPD = 6.00	

Reagents:

SGHBTCLPL1_00007 Amount Added: 1.00 Units: mL

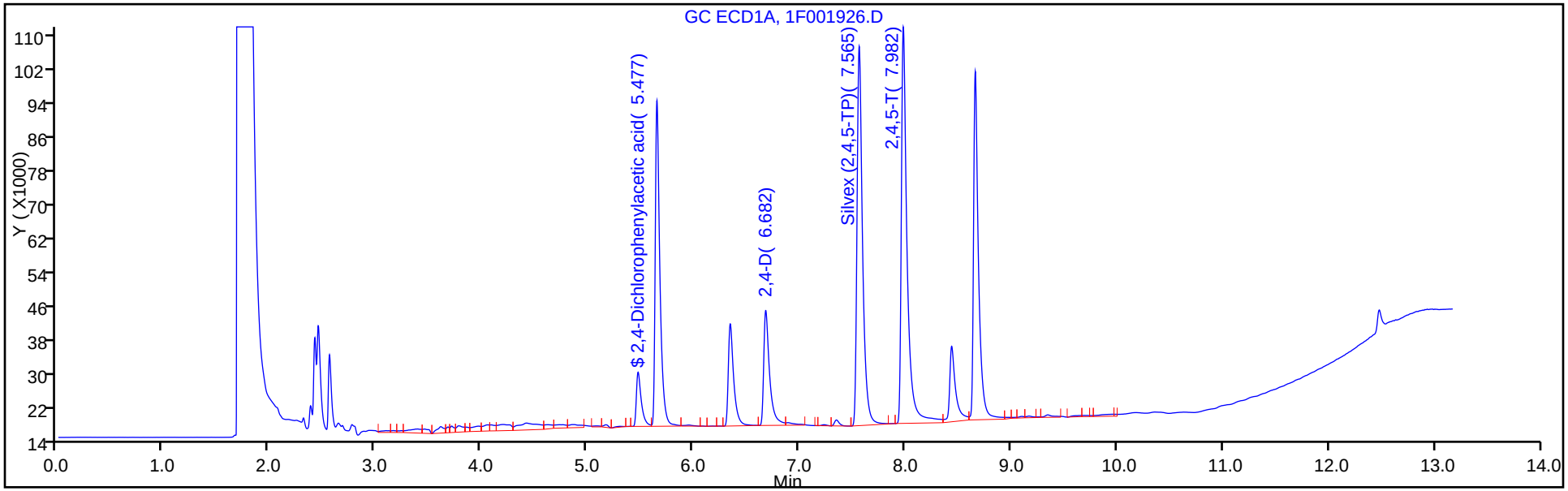
Report Date: 17-Jan-2018 12:42:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

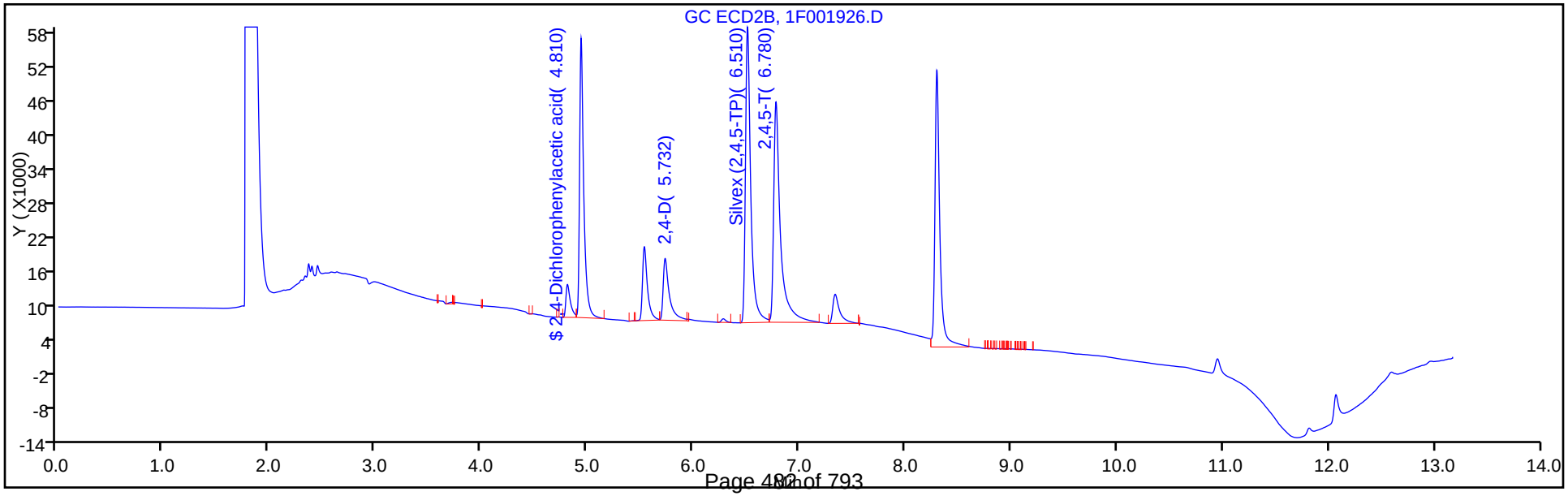
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001926.D

Injection Date:	17-Jan-2018 11:30:44	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L1			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001927.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jan-2018 11:47:20 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:21 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:27:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.467	5.465	0.002	354487	1000.0	1073.6	
2	4.807	4.808	-0.001	174691	1000.0	1084.5	
						RPD = 1.01	
2 2,4-D							
1	6.673	6.670	0.003	218393	504.8	547.9	
2	5.730	5.730	0.000	103384	504.8	548.1	
						RPD = 0.04	
3 Silvex (2,4,5-TP)							
1	7.555	7.553	0.002	679169	505.0	530.1	
2	6.510	6.510	0.000	389748	505.0	528.5	
						RPD = 0.30	
4 2,4,5-T							
1	7.973	7.970	0.003	738801	500.0	528.6	
2	6.777	6.775	0.002	386136	500.0	530.9	
						RPD = 0.43	

Reagents:

SGHBTCLPL2_00007 Amount Added: 1.00 Units: mL

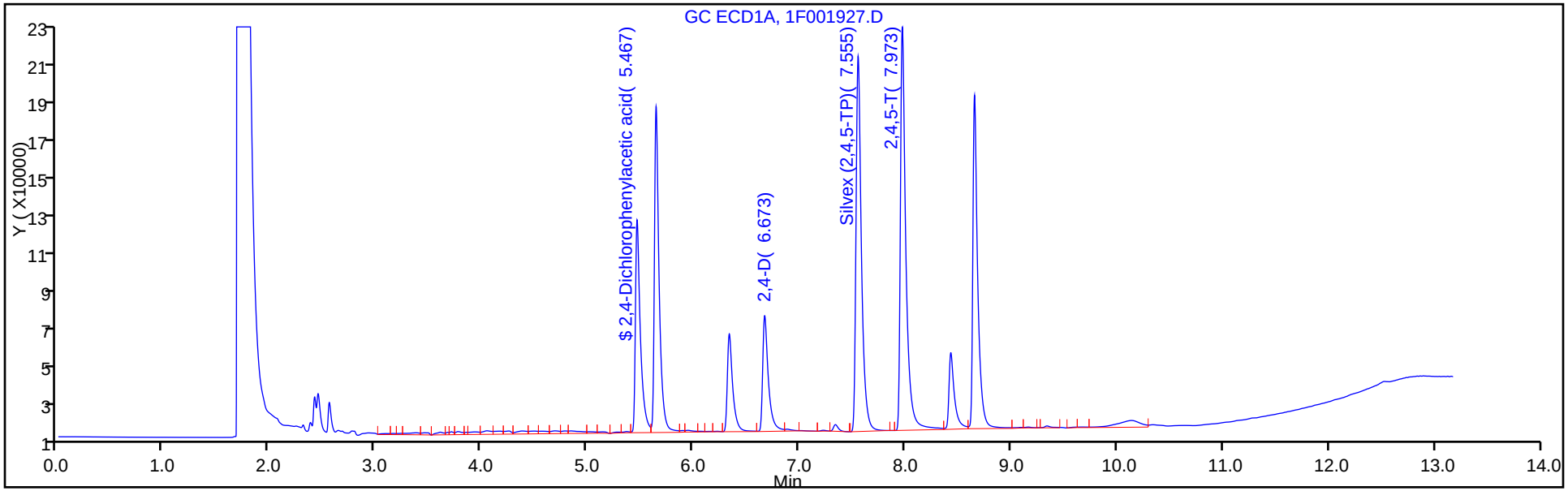
Report Date: 17-Jan-2018 12:42:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

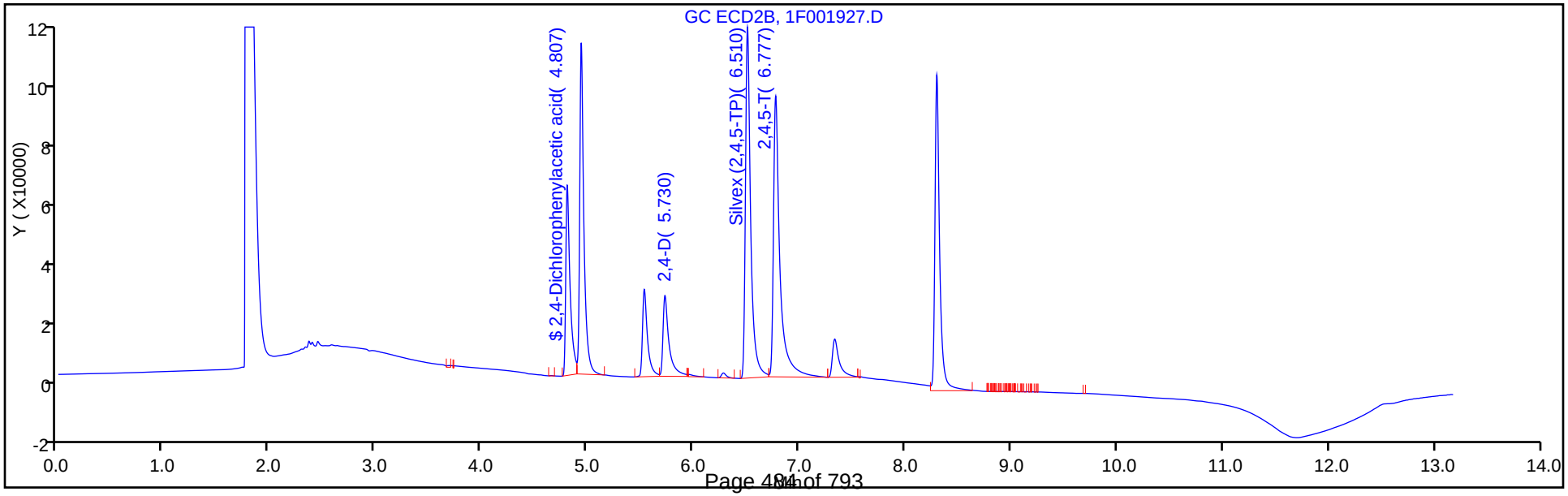
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001927.D

Injection Date:	17-Jan-2018 11:47:20	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L2			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001928.D
Lims ID: IC L3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 17-Jan-2018 12:03:48 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:22 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:27:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.467	5.467	0.000	493865	1500.0	1495.7	
2	4.808	4.808	0.000	249595	1500.0	1549.5	
						RPD = 3.53	
2 2,4-D							
1	6.673	6.673	0.000	316433	757.1	793.9	
2	5.730	5.730	0.000	150338	757.1	797.1	
						RPD = 0.40	
3 Silvex (2,4,5-TP)							
1	7.557	7.557	0.000	1001838	757.5	782.0	
2	6.512	6.512	0.000	580160	757.5	786.7	
						RPD = 0.60	
4 2,4,5-T							
1	7.973	7.973	0.000	1082051	750.0	774.2	
2	6.777	6.777	0.000	567412	750.0	780.1	
						RPD = 0.76	

Reagents:

SGHBTCLPL3_00008 Amount Added: 1.00 Units: mL

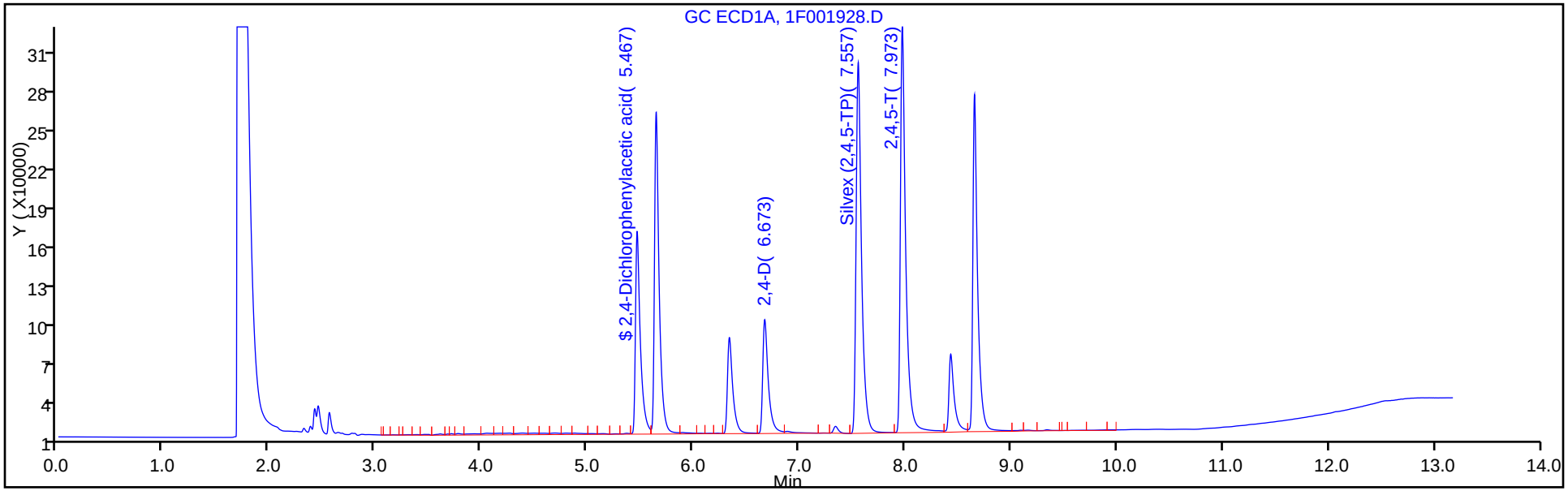
Report Date: 17-Jan-2018 12:42:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

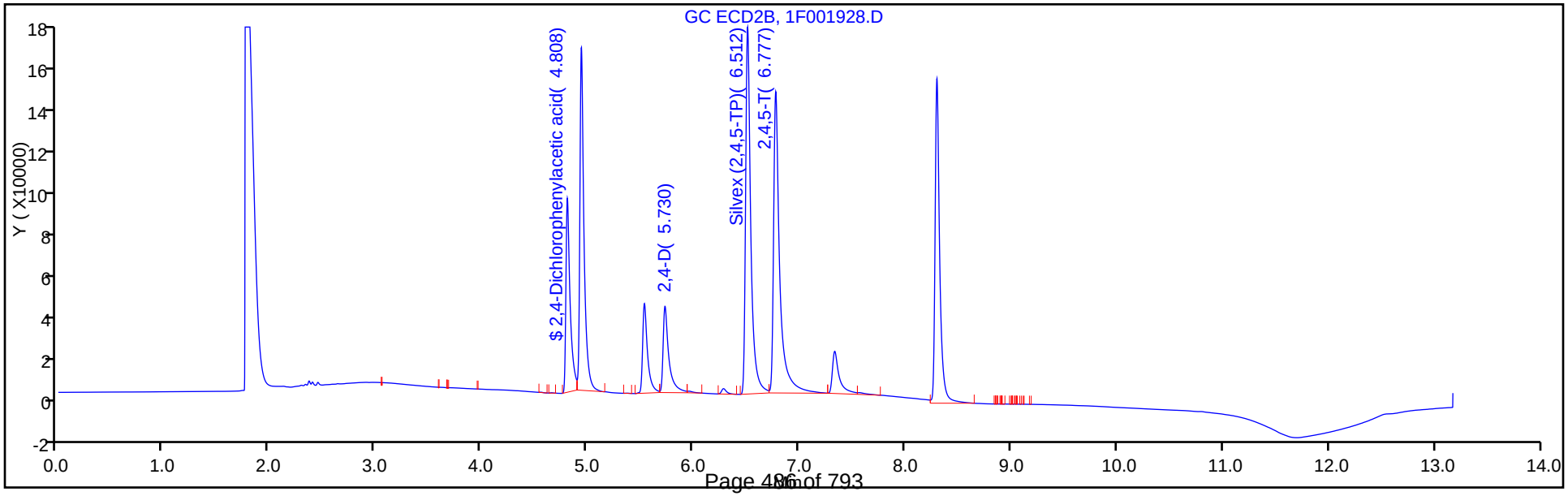
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001928.D

Injection Date:	17-Jan-2018 12:03:48	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L3			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001929.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jan-2018 12:20:13 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:23 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:55:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.465	5.467	-0.002	870491	3000.0	2636.3	
2	4.807	4.808	-0.001	456551	3000.0	2834.3	
						RPD = 7.24	
2 2,4-D							
1	6.670	6.673	-0.003	578657	1514.3	1451.7	
2	5.728	5.730	-0.002	286237	1514.3	1517.6	
						RPD = 4.44	
3 Silvex (2,4,5-TP)							
1	7.553	7.557	-0.004	1900136	1515.0	1483.2	
2	6.508	6.512	-0.004	1116425	1515.0	1513.9	
						RPD = 2.05	
4 2,4,5-T							
1	7.970	7.973	-0.003	2034719	1500.0	1455.8	
2	6.773	6.777	-0.004	1091247	1500.0	1500.3	
						RPD = 3.01	

Reagents:

SGHBTCLPL4_00007 Amount Added: 1.00 Units: mL

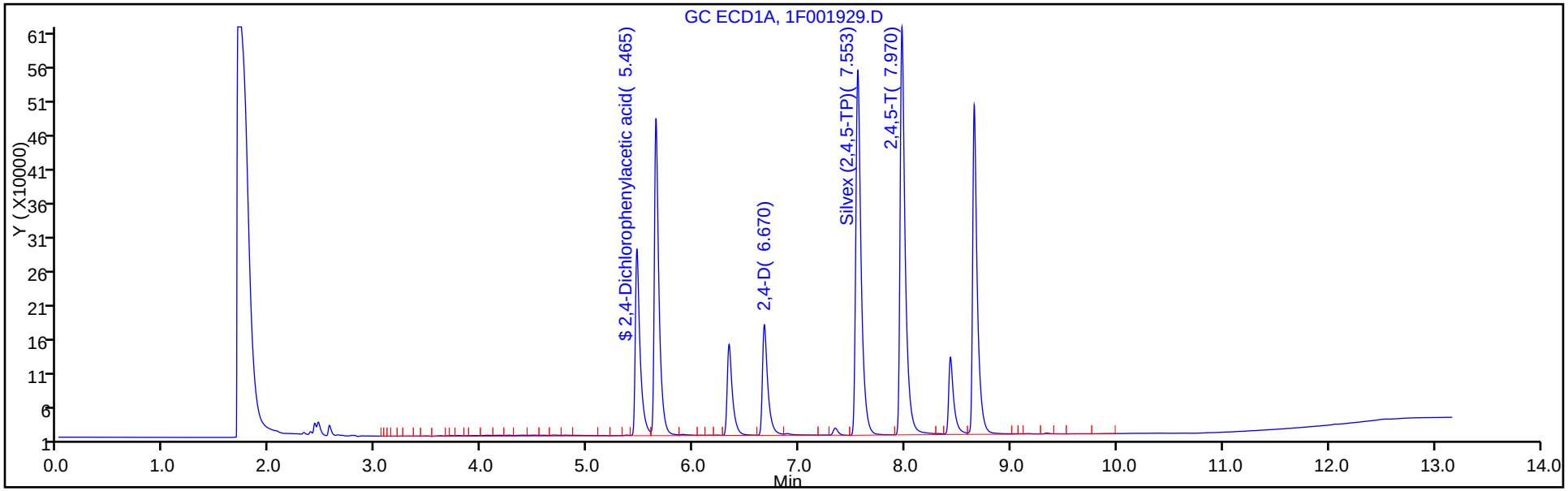
Report Date: 17-Jan-2018 12:42:23 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

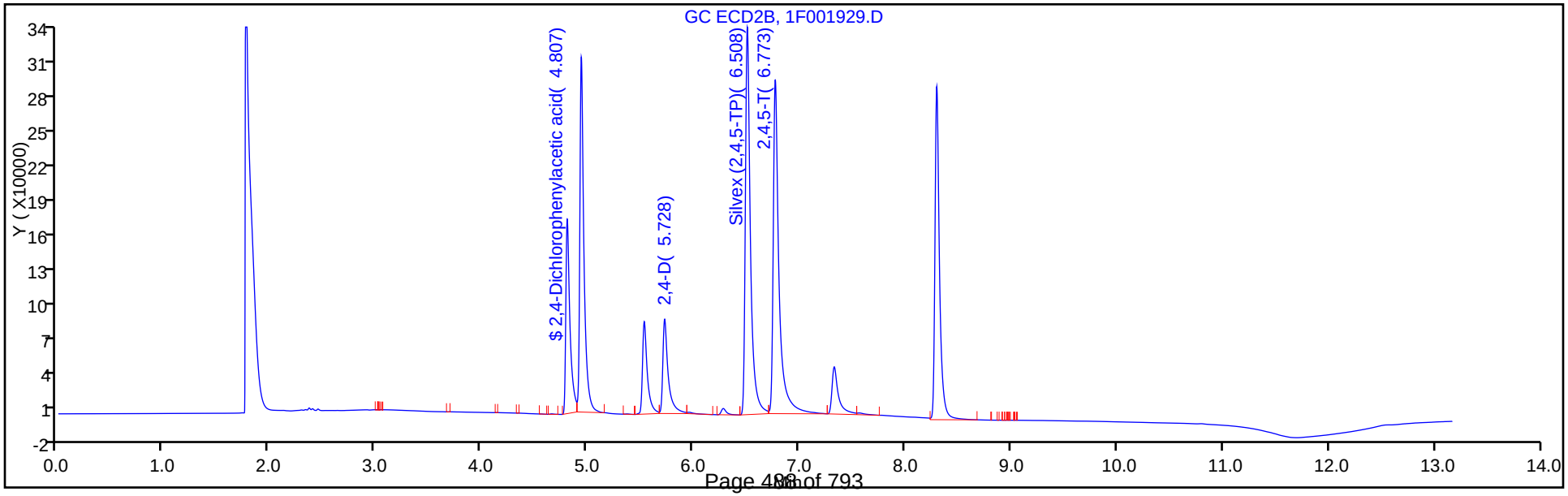
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001929.D

Injection Date:	17-Jan-2018 12:20:13	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jan-2018 12:36:54 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:24 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.465	5.467	-0.002	1564878	6000.0	4739.3	
2	4.805	4.808	-0.003	841296	6000.0	5222.8	
						RPD = 9.71	
2 2,4-D							
1	6.668	6.673	-0.005	1046861	3028.5	2626.3	
2	5.725	5.730	-0.005	531218	3028.5	2816.4	
						RPD = 6.99	
3 Silvex (2,4,5-TP)							
1	7.553	7.557	-0.004	3617072	3030.0	2823.3	
2	6.507	6.512	-0.005	2099108	3030.0	2846.5	
						RPD = 0.82	
4 2,4,5-T							
1	7.970	7.973	-0.003	3862667	3000.0	2763.6	
2	6.770	6.777	-0.007	2047874	3000.0	2815.4	
						RPD = 1.86	

Reagents:

SGHBTCLPL5_00007 Amount Added: 1.00 Units: mL

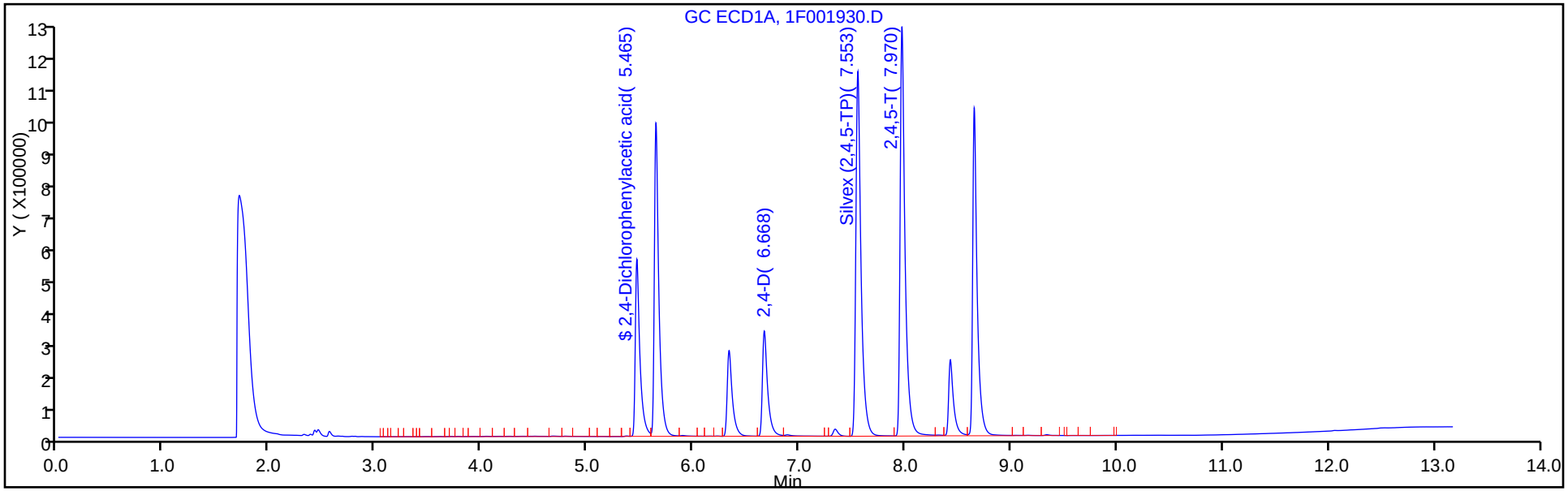
Report Date: 17-Jan-2018 12:42:24 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

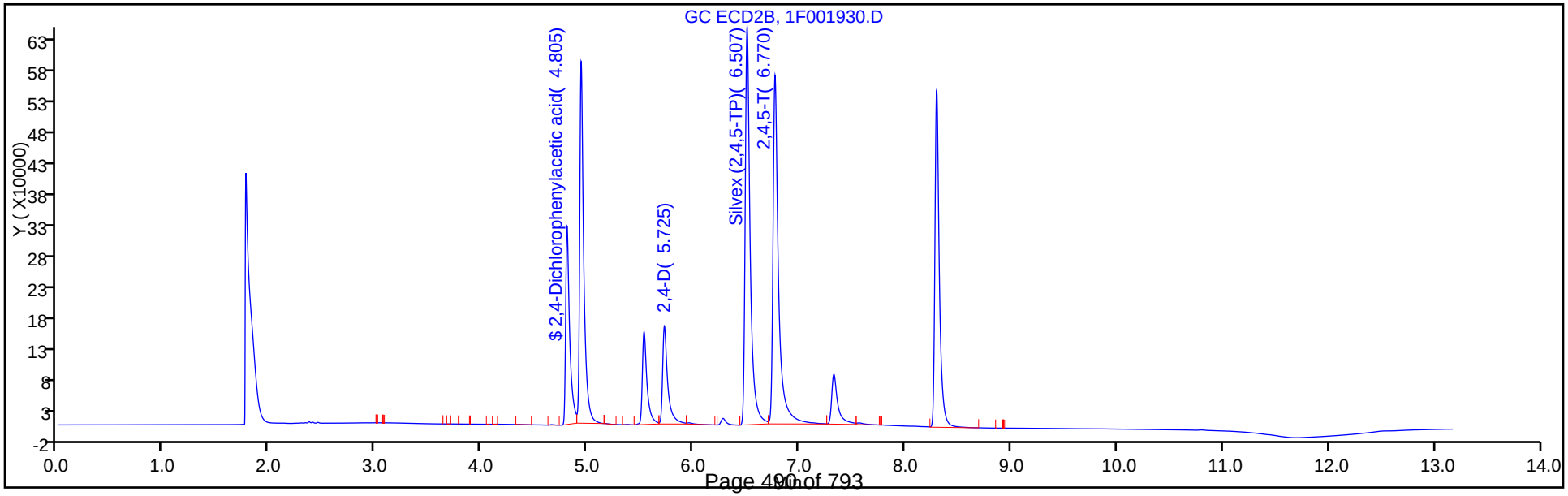
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Injection Date:	17-Jan-2018 12:36:54	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L5			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-608 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
2,4-D	5.732	5.730	5.730	5.728	5.725						5.660 - 5.800	5.729
Silvex (2,4,5-TP)	6.510	6.510	6.512	6.508	6.507						6.440 - 6.580	6.509
2,4,5-T	6.780	6.777	6.777	6.773	6.770						6.705 - 6.845	6.775
2,4-Dichlorophenylacetic acid	4.810	4.807	4.808	4.807	4.805						4.738 - 4.878	4.807

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-608 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
2,4-D	175.25 175.41	204.82	198.56	189.03	Ave		188.614562				7.1		20.0			
Silvex (2,4,5-TP)	719.81 692.77	771.78	765.89	736.91	Ave		737.433003				4.4		20.0			
2,4,5-T	697.92 682.62	772.27	756.55	727.50	Ave		727.373600				5.2		20.0			
2,4-Dichlorophenylacetic acid	171.92 140.22	174.69	166.40	152.18	Ave		161.081467				9.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-153774-1 Analy Batch No.: 490977

SDG No.:

Instrument ID: CPESTGC1 GC Column: DB-608 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2018 11:30 Calibration End Date: 01/17/2018 12:36 Calibration ID: 66113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-490977/1	1F001926.D
Level 2	IC 460-490977/2	1F001927.D
Level 3	IC 460-490977/3	1F001928.D
Level 4	IC 460-490977/4	1F001929.D
Level 5	IC 460-490977/5	1F001930.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
2,4-D	Ave	44229	103384	150338	286237	531218	252	505	757	1514	3029
Silvex (2,4,5-TP)	Ave	181752	389748	580160	1116425	2099108	253	505	758	1515	3030
2,4,5-T	Ave	174481	386136	567412	1091247	2047874	250	500	750	1500	3000
2,4-Dichlorophenylacetic acid	Ave	17192	174691	249595	456551	841296	100	1000	1500	3000	6000

Curve Type Legend:
Ave = Average

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001926.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jan-2018 11:30:44 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:20 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.477	5.465	0.012	41626	100.0	126.1	
2	4.810	4.808	0.002	17192	100.0	106.7	
						RPD = 16.61	
2 2,4-D							
1	6.682	6.670	0.012	104631	252.4	262.5	
2	5.732	5.730	0.002	44229	252.4	234.5	
						RPD = 11.27	
3 Silvex (2,4,5-TP)							
1	7.565	7.553	0.012	325805	252.5	254.3	
2	6.510	6.510	0.000	181752	252.5	246.5	
						RPD = 3.13	
4 2,4,5-T							
1	7.982	7.970	0.012	356017	250.0	254.7	
2	6.780	6.775	0.005	174481	250.0	239.9	
						RPD = 6.00	

Reagents:

SGHBTCLPL1_00007 Amount Added: 1.00 Units: mL

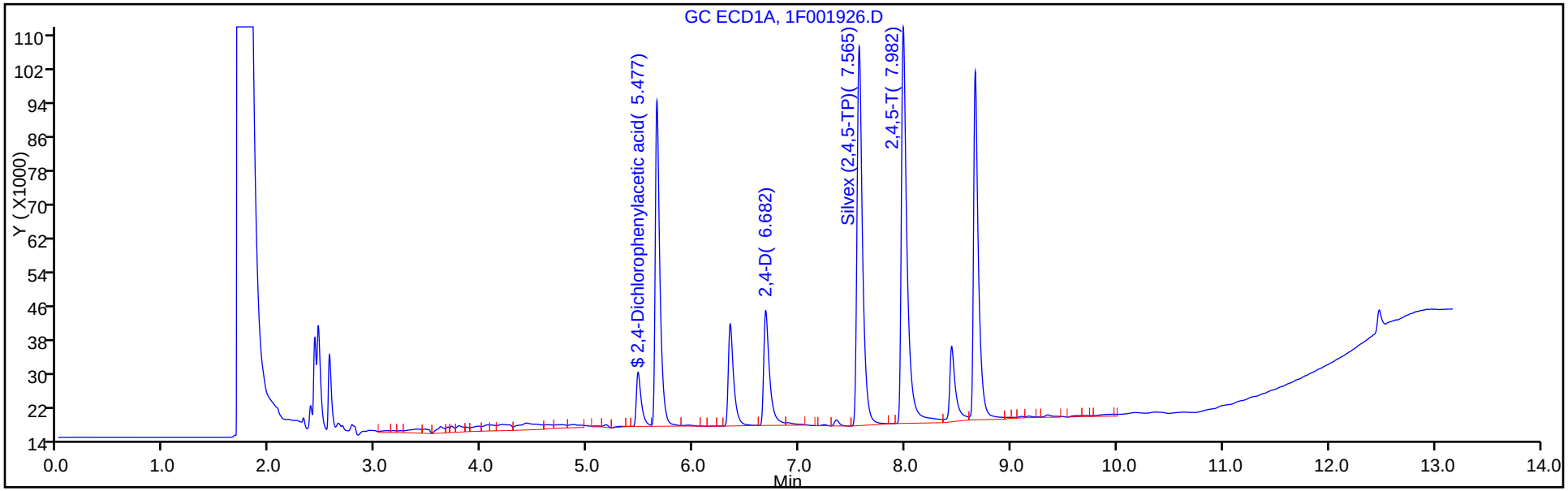
Report Date: 17-Jan-2018 12:42:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

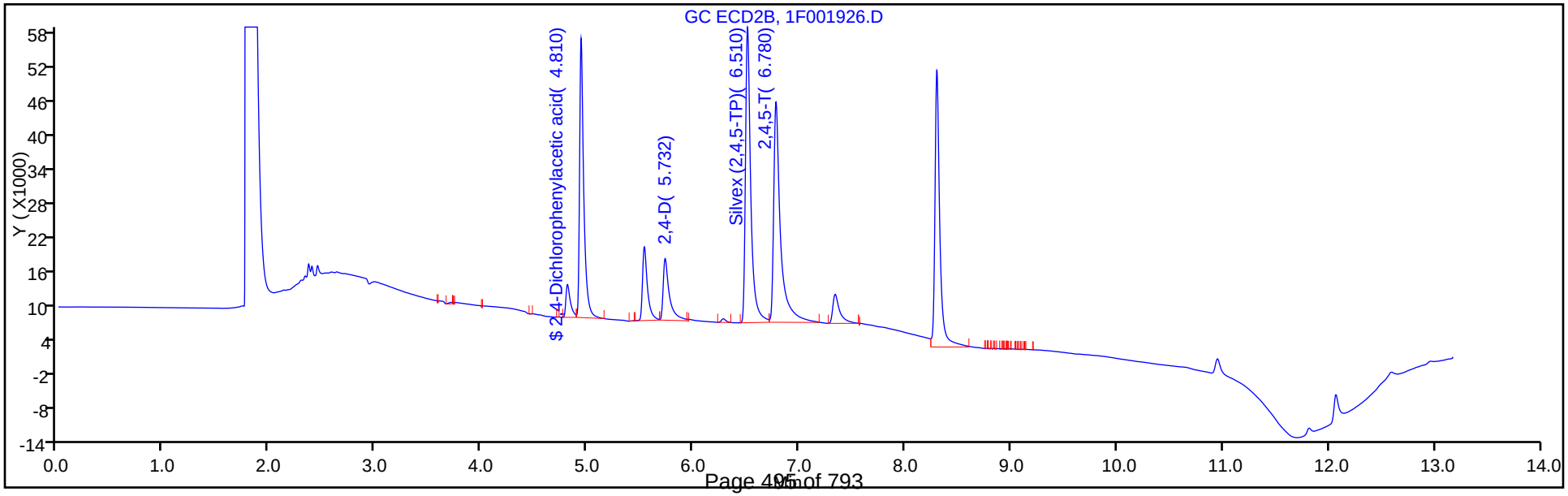
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001926.D

Injection Date:	17-Jan-2018 11:30:44	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L1			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001927.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jan-2018 11:47:20 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:21 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:27:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.467	5.465	0.002	354487	1000.0	1073.6	
2	4.807	4.808	-0.001	174691	1000.0	1084.5	
						RPD = 1.01	
2 2,4-D							
1	6.673	6.670	0.003	218393	504.8	547.9	
2	5.730	5.730	0.000	103384	504.8	548.1	
						RPD = 0.04	
3 Silvex (2,4,5-TP)							
1	7.555	7.553	0.002	679169	505.0	530.1	
2	6.510	6.510	0.000	389748	505.0	528.5	
						RPD = 0.30	
4 2,4,5-T							
1	7.973	7.970	0.003	738801	500.0	528.6	
2	6.777	6.775	0.002	386136	500.0	530.9	
						RPD = 0.43	

Reagents:

SGHBTCLPL2_00007 Amount Added: 1.00 Units: mL

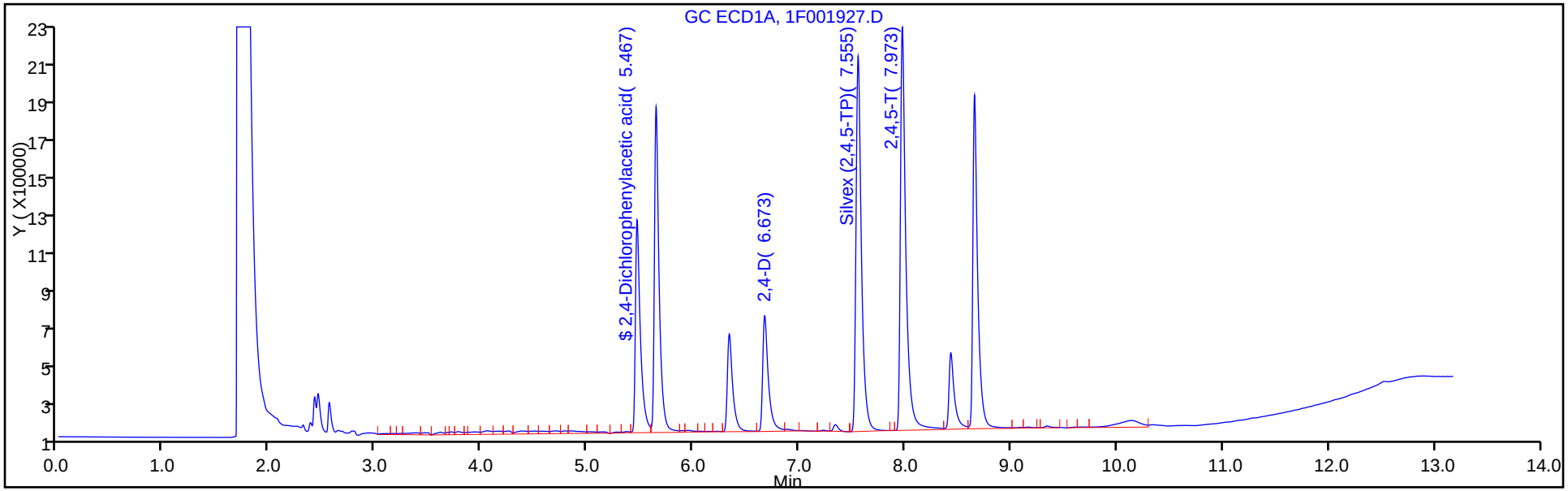
Report Date: 17-Jan-2018 12:42:22 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

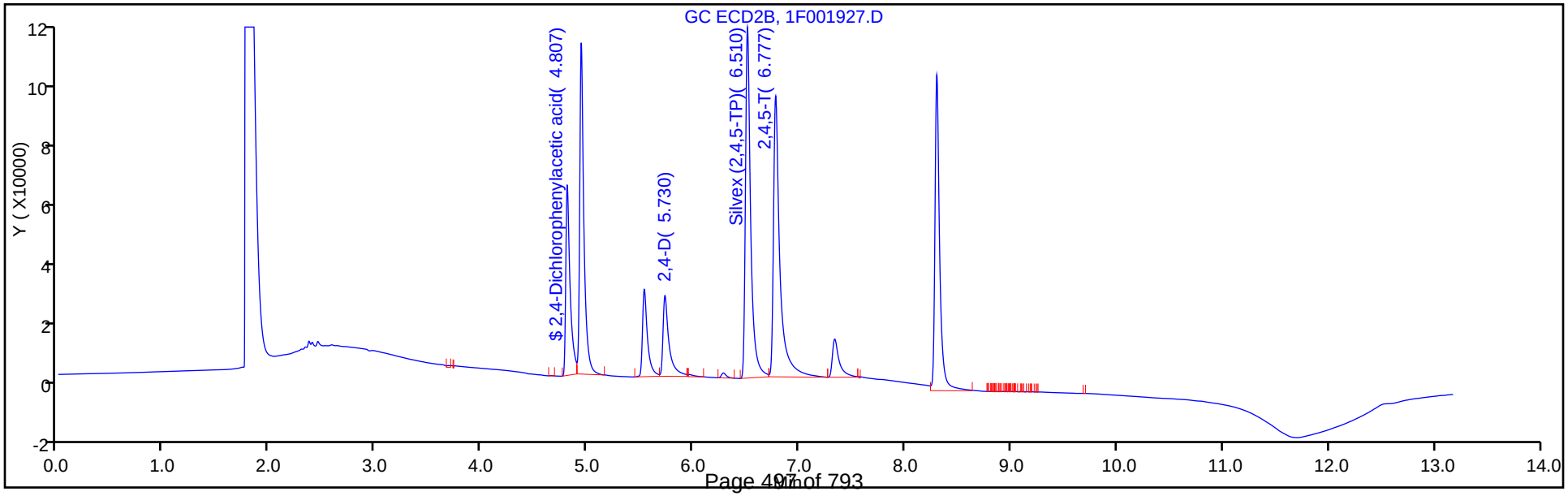
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001927.D

Injection Date:	17-Jan-2018 11:47:20	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L2			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001928.D
Lims ID: IC L3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 17-Jan-2018 12:03:48 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:22 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:27:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.467	5.467	0.000	493865	1500.0	1495.7	
2	4.808	4.808	0.000	249595	1500.0	1549.5	
						RPD = 3.53	
2 2,4-D							
1	6.673	6.673	0.000	316433	757.1	793.9	
2	5.730	5.730	0.000	150338	757.1	797.1	
						RPD = 0.40	
3 Silvex (2,4,5-TP)							
1	7.557	7.557	0.000	1001838	757.5	782.0	
2	6.512	6.512	0.000	580160	757.5	786.7	
						RPD = 0.60	
4 2,4,5-T							
1	7.973	7.973	0.000	1082051	750.0	774.2	
2	6.777	6.777	0.000	567412	750.0	780.1	
						RPD = 0.76	

Reagents:

SGHBTCLPL3_00008 Amount Added: 1.00 Units: mL

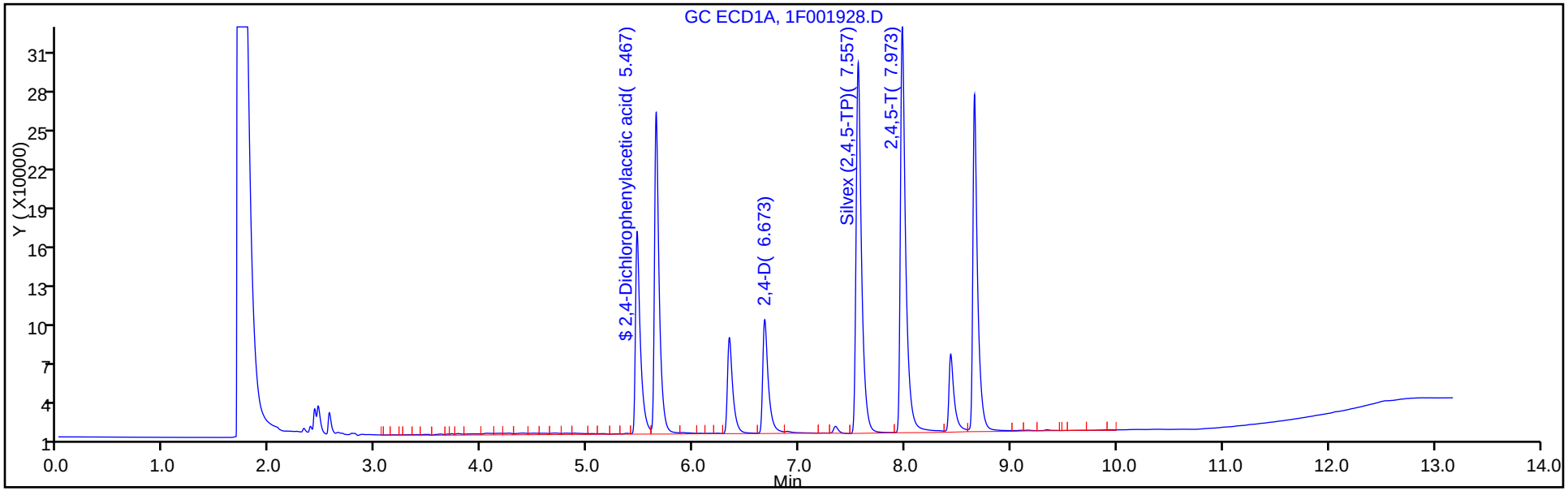
Report Date: 17-Jan-2018 12:42:23 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

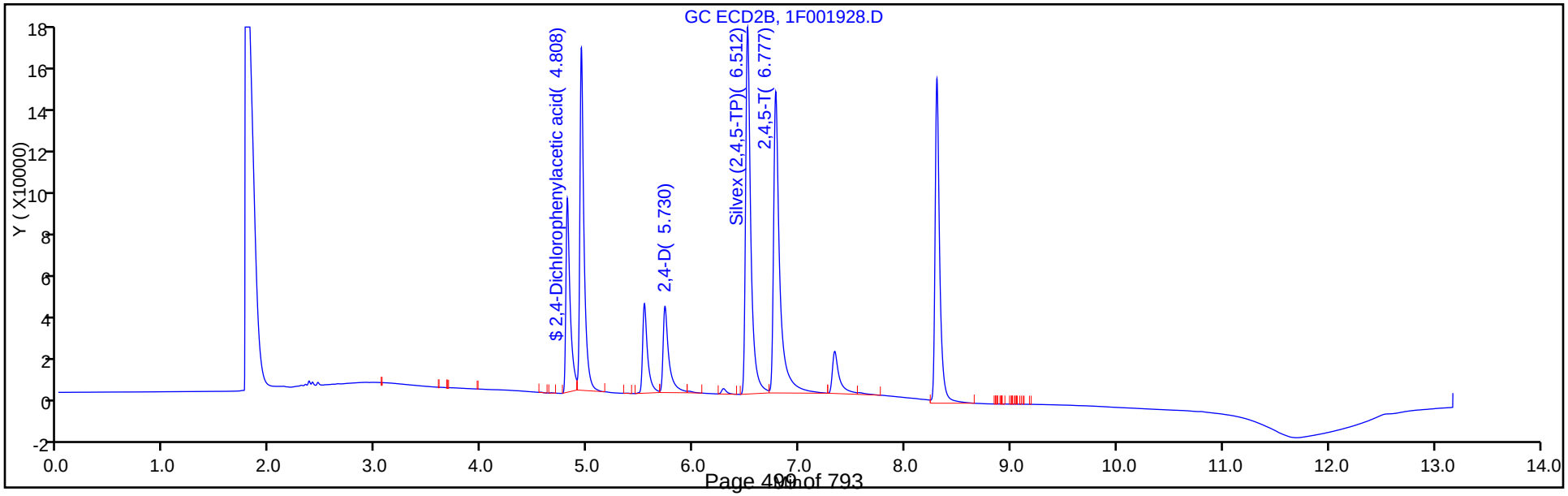
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001928.D

Injection Date:	17-Jan-2018 12:03:48	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L3			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001929.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jan-2018 12:20:13 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:23 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

First Level Reviewer: kapoors Date: 17-Jan-2018 11:55:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.465	5.467	-0.002	870491	3000.0	2636.3	
2	4.807	4.808	-0.001	456551	3000.0	2834.3	
						RPD = 7.24	
2 2,4-D							
1	6.670	6.673	-0.003	578657	1514.3	1451.7	
2	5.728	5.730	-0.002	286237	1514.3	1517.6	
						RPD = 4.44	
3 Silvex (2,4,5-TP)							
1	7.553	7.557	-0.004	1900136	1515.0	1483.2	
2	6.508	6.512	-0.004	1116425	1515.0	1513.9	
						RPD = 2.05	
4 2,4,5-T							
1	7.970	7.973	-0.003	2034719	1500.0	1455.8	
2	6.773	6.777	-0.004	1091247	1500.0	1500.3	
						RPD = 3.01	

Reagents:

SGHBTCLPL4_00007 Amount Added: 1.00 Units: mL

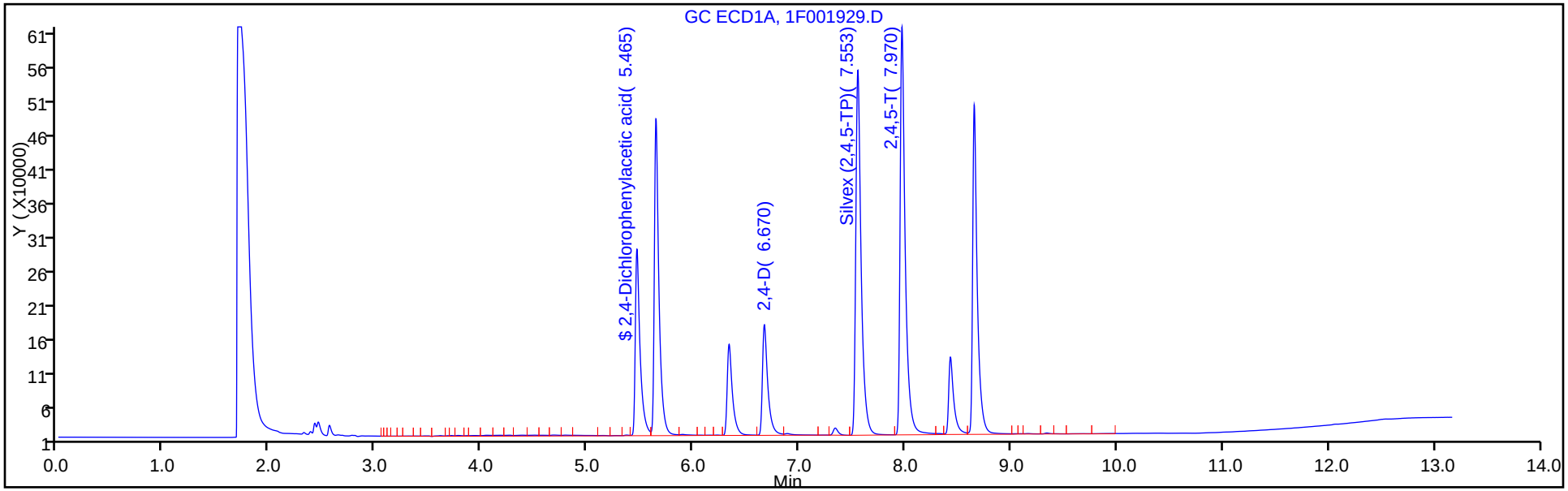
Report Date: 17-Jan-2018 12:42:24 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

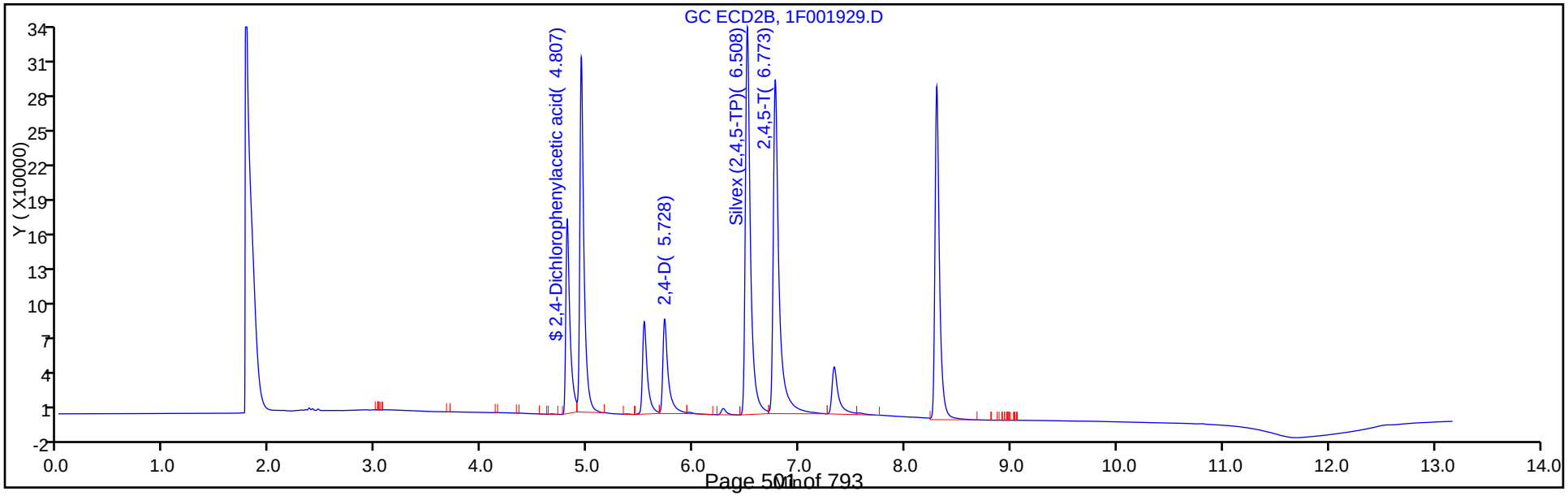
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001929.D

Injection Date:	17-Jan-2018 12:20:13	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jan-2018 12:36:54 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 17-Jan-2018 12:42:24 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK006

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.465	5.467	-0.002	1564878	6000.0	4739.3	
2	4.805	4.808	-0.003	841296	6000.0	5222.8	
						RPD = 9.71	
2 2,4-D							
1	6.668	6.673	-0.005	1046861	3028.5	2626.3	
2	5.725	5.730	-0.005	531218	3028.5	2816.4	
						RPD = 6.99	
3 Silvex (2,4,5-TP)							
1	7.553	7.557	-0.004	3617072	3030.0	2823.3	
2	6.507	6.512	-0.005	2099108	3030.0	2846.5	
						RPD = 0.82	
4 2,4,5-T							
1	7.970	7.973	-0.003	3862667	3000.0	2763.6	
2	6.770	6.777	-0.007	2047874	3000.0	2815.4	
						RPD = 1.86	

Reagents:

SGHBTCLPL5_00007 Amount Added: 1.00 Units: mL

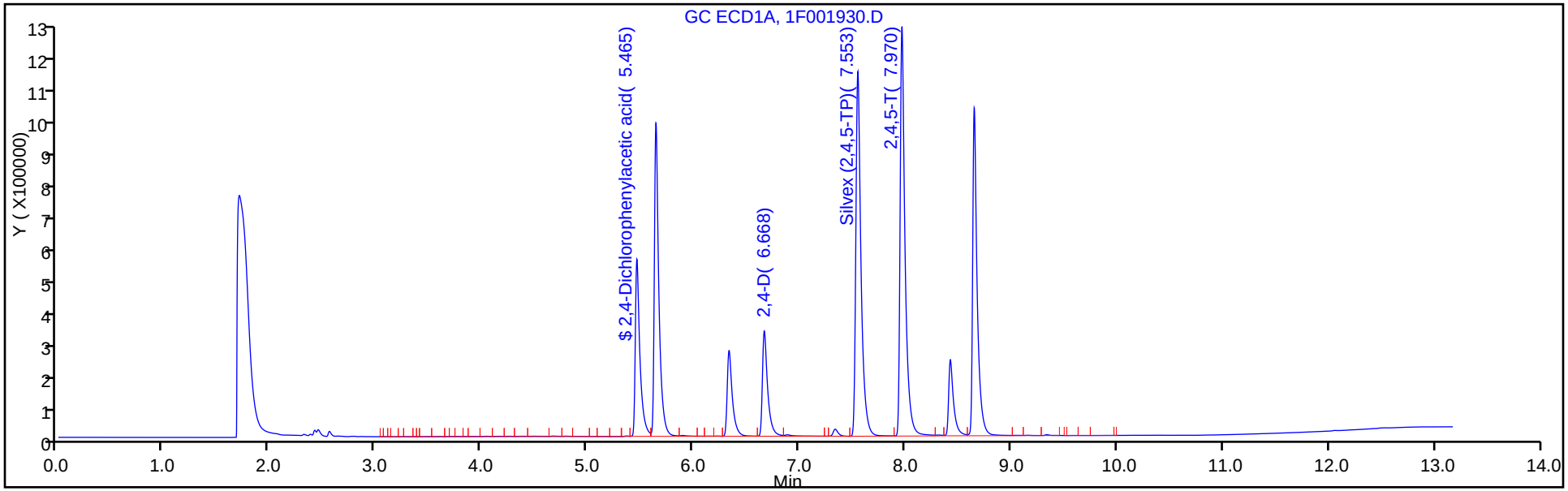
Report Date: 17-Jan-2018 12:42:24 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Edison

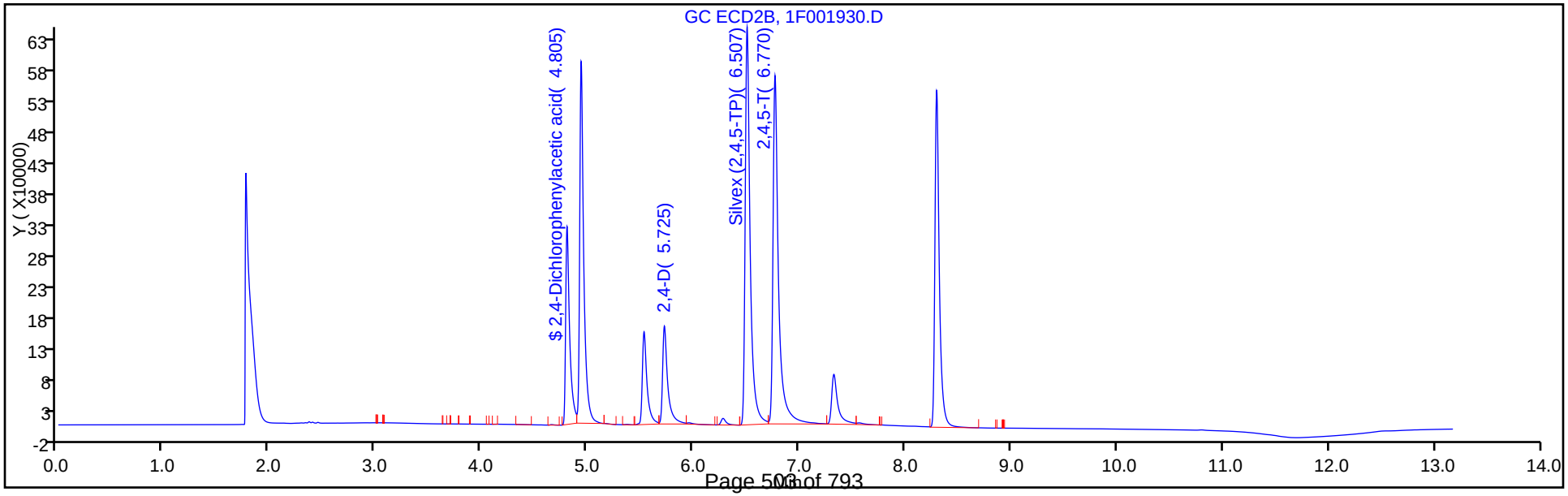
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Injection Date:	17-Jan-2018 12:36:54	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	IC L5			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/1 Calibration Date: 04/16/2018 08:26

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-5 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002913.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	398.6	432.2		821	757	8.4	15.0
Silvex (2,4,5-TP)	Ave	1281	1444		854	758	12.7	15.0
2,4,5-T	Ave	1398	1540		826	750	10.2	15.0
2,4-Dichlorophenylacetic acid	Ave	330.2	323.9		1470	1500	-1.9	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/1 Calibration Date: 04/16/2018 08:26

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-5 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002913.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	6.66	6.59	6.73
Silvex (2,4,5-TP)	7.55	7.48	7.62
2,4,5-T	7.96	7.90	8.04
2,4-Dichlorophenylacetic acid	5.46	5.39	5.53

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002913.D
Lims ID: CCV TCLP
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 08:26:02 ALS Bottle#: 54 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-025
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.460	5.455	0.005	485795	1500.0	1471.2	
2	4.785	4.793	-0.008	248106	1500.0	1540.3	
						RPD = 4.58	
2 2,4-D							
1	6.663	6.663	0.000	327238	757.1	821.0	
2	5.700	5.722	-0.022	159633	757.1	846.3	
						RPD = 3.04	
3 Silvex (2,4,5-TP)							
1	7.545	7.547	-0.002	1093541	757.5	853.6	
2	6.478	6.503	-0.025	628986	757.5	852.9	
						RPD = 0.07	
4 2,4,5-T							
1	7.963	7.965	-0.002	1154935	750.0	826.3	
2	6.743	6.767	-0.024	622002	750.0	855.1	
						RPD = 3.43	

Reagents:

SGHBTCLPL3_00009 Amount Added: 1.00 Units: mL

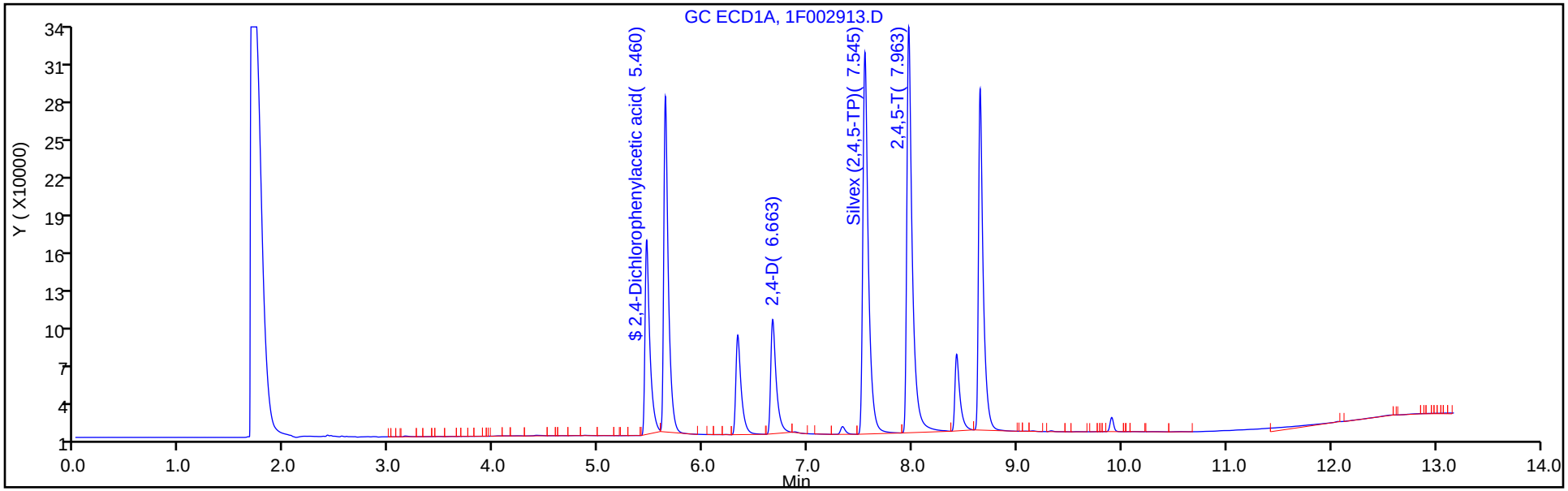
Report Date: 16-Apr-2018 13:18:32 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

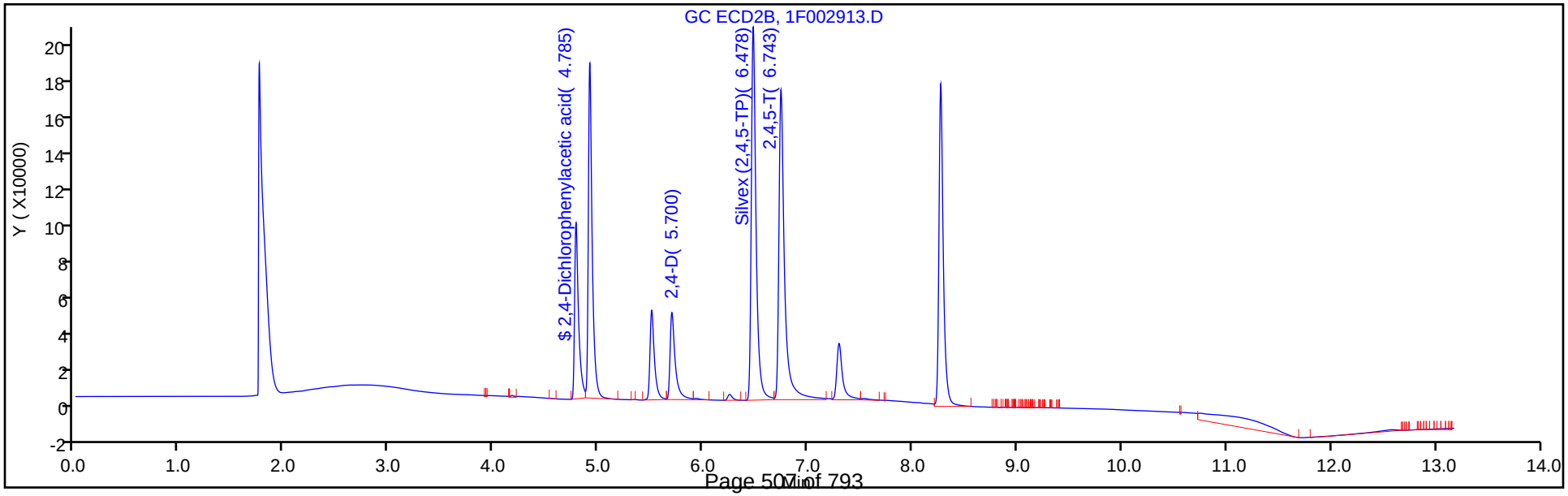
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002913.D

Injection Date:	16-Apr-2018 08:26:02	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	CCV TCLP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/1 Calibration Date: 04/16/2018 08:26

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-608 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002913.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	188.6	210.8		846	757	11.8	15.0
Silvex (2,4,5-TP)	Ave	737.4	830.3		853	758	12.6	15.0
2,4,5-T	Ave	727.4	829.3		855	750	14.0	15.0
2,4-Dichlorophenylacetic acid	Ave	161.1	165.4		1540	1500	2.7	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/1 Calibration Date: 04/16/2018 08:26

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-608 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002913.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	5.70	5.65	5.79
Silvex (2,4,5-TP)	6.48	6.43	6.57
2,4,5-T	6.74	6.70	6.84
2,4-Dichlorophenylacetic acid	4.79	4.72	4.86

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002913.D
Lims ID: CCV TCLP
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 08:26:02 ALS Bottle#: 54 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-025
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.460	5.455	0.005	485795	1500.0	1471.2	
2	4.785	4.793	-0.008	248106	1500.0	1540.3	
						RPD = 4.58	
2 2,4-D							
1	6.663	6.663	0.000	327238	757.1	821.0	
2	5.700	5.722	-0.022	159633	757.1	846.3	
						RPD = 3.04	
3 Silvex (2,4,5-TP)							
1	7.545	7.547	-0.002	1093541	757.5	853.6	
2	6.478	6.503	-0.025	628986	757.5	852.9	
						RPD = 0.07	
4 2,4,5-T							
1	7.963	7.965	-0.002	1154935	750.0	826.3	
2	6.743	6.767	-0.024	622002	750.0	855.1	
						RPD = 3.43	

Reagents:

SGHBTCLPL3_00009 Amount Added: 1.00 Units: mL

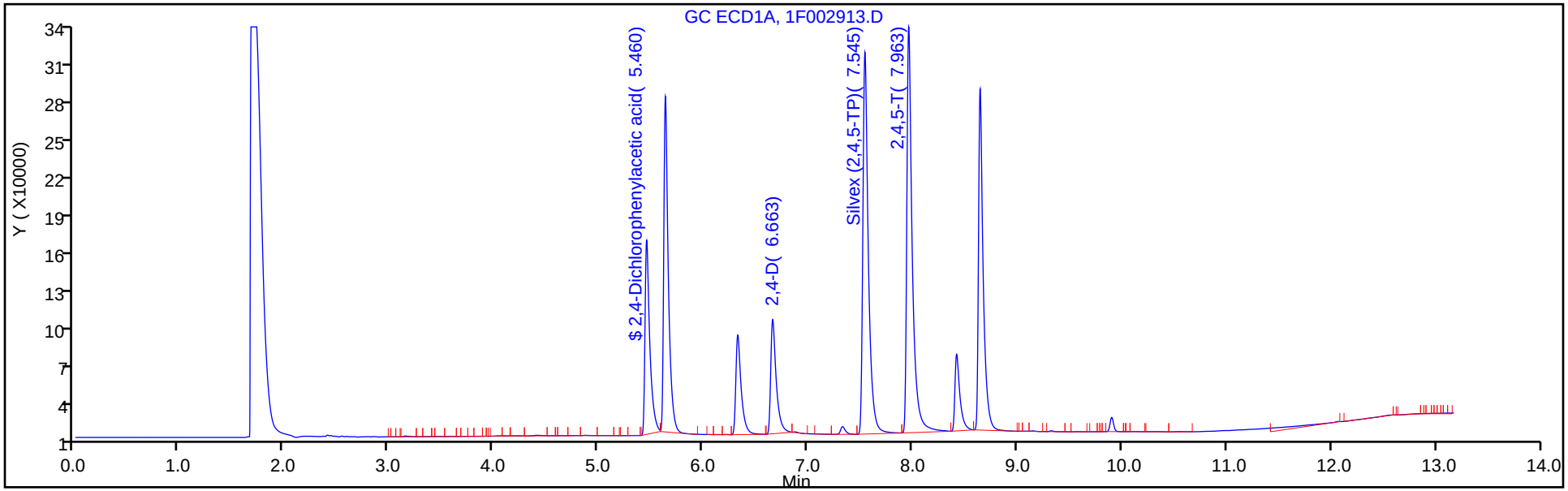
Report Date: 16-Apr-2018 13:18:33 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

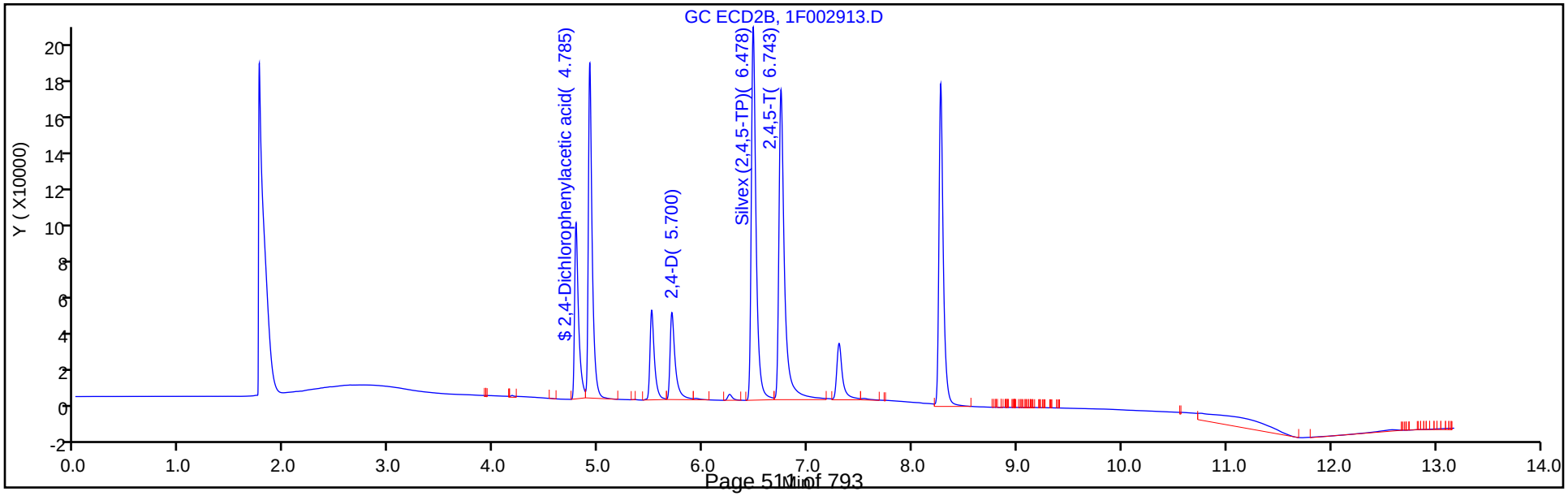
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002913.D

Injection Date:	16-Apr-2018 08:26:02	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	CCV TCLP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/16 Calibration Date: 04/16/2018 12:37

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-5 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002928.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	398.6	432.5		821	757	8.5	15.0
Silvex (2,4,5-TP)	Ave	1281	1410		834	758	10.1	15.0
2,4,5-T	Ave	1398	1567		841	750	12.1	15.0
2,4-Dichlorophenylacetic acid	Ave	330.2	319.1		1450	1500	-3.4	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/16 Calibration Date: 04/16/2018 12:37

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-5 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002928.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	6.65	6.59	6.73
Silvex (2,4,5-TP)	7.53	7.48	7.62
2,4,5-T	7.95	7.90	8.04
2,4-Dichlorophenylacetic acid	5.45	5.39	5.53

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 12:37:59 ALS Bottle#: 69 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:19:07 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 13:18:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.445	5.455	-0.010	478682	1500.0	1449.7	
2	4.782	4.793	-0.011	249663	1500.0	1549.9	
						RPD = 6.68	
2 2,4-D							M
1	6.647	6.663	-0.016	327443	757.1	821.5	
2	5.700	5.722	-0.022	154214	757.1	817.6	M
						RPD = 0.47	
3 Silvex (2,4,5-TP)							
1	7.528	7.547	-0.019	1068230	757.5	833.8	
2	6.475	6.503	-0.028	627786	757.5	851.3	
						RPD = 2.08	
4 2,4,5-T							M
1	7.950	7.965	-0.015	1175199	750.0	840.8	
2	6.742	6.767	-0.025	614046	750.0	844.2	M
						RPD = 0.40	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SGHBTCLPL3_00009 Amount Added: 1.00 Units: mL

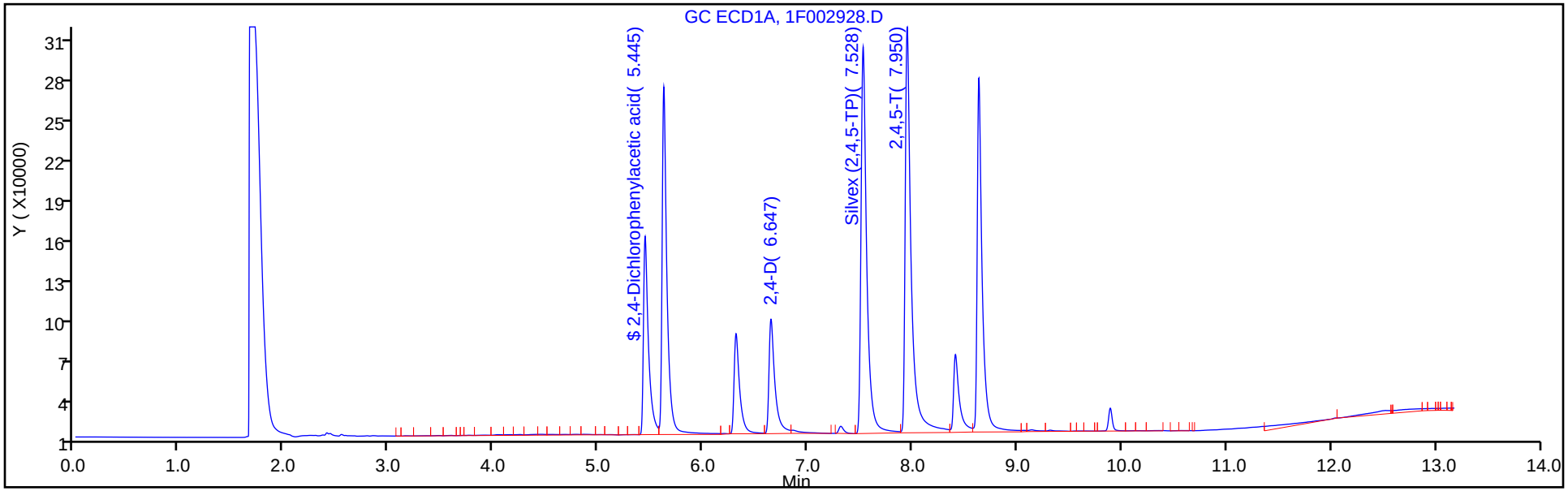
Report Date: 16-Apr-2018 13:19:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

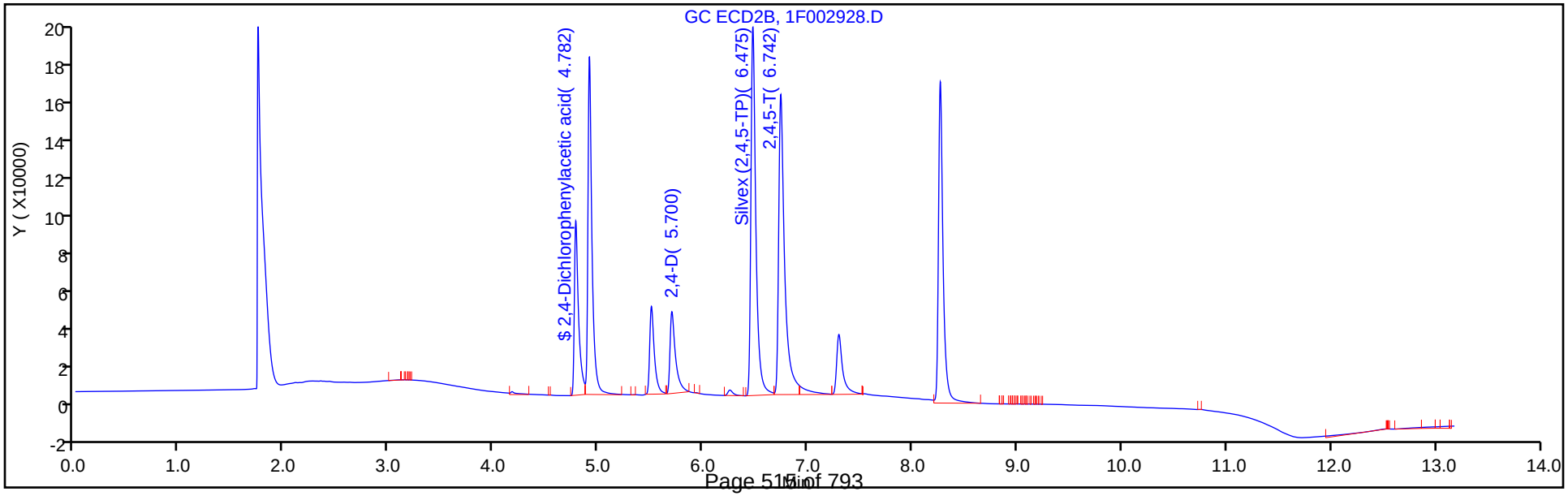
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D

Injection Date:	16-Apr-2018 12:37:59	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	69
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/16 Calibration Date: 04/16/2018 12:37

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-608 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002928.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	188.6	203.7		818	757	8.0	15.0
Silvex (2,4,5-TP)	Ave	737.4	828.8		851	758	12.4	15.0
2,4,5-T	Ave	727.4	818.7		844	750	12.6	15.0
2,4-Dichlorophenylacetic acid	Ave	161.1	166.4		1550	1500	3.3	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: CCV 460-511359/16 Calibration Date: 04/16/2018 12:37

Instrument ID: CPESTGC1 Calib Start Date: 01/17/2018 11:30

GC Column: DB-608 ID: 0.53(mm) Calib End Date: 01/17/2018 12:36

Lab File ID: 1F002928.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	5.70	5.65	5.79
Silvex (2,4,5-TP)	6.48	6.43	6.57
2,4,5-T	6.74	6.70	6.84
2,4-Dichlorophenylacetic acid	4.78	4.72	4.86

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2018 12:37:59 ALS Bottle#: 69 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC1
Sublist: chrom-8151TCLPGC1*sub3

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:19:07 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 13:18:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.445	5.455	-0.010	478682	1500.0	1449.7	
2	4.782	4.793	-0.011	249663	1500.0	1549.9	
						RPD = 6.68	
2 2,4-D							M
1	6.647	6.663	-0.016	327443	757.1	821.5	
2	5.700	5.722	-0.022	154214	757.1	817.6	M
						RPD = 0.47	
3 Silvex (2,4,5-TP)							
1	7.528	7.547	-0.019	1068230	757.5	833.8	
2	6.475	6.503	-0.028	627786	757.5	851.3	
						RPD = 2.08	
4 2,4,5-T							M
1	7.950	7.965	-0.015	1175199	750.0	840.8	
2	6.742	6.767	-0.025	614046	750.0	844.2	M
						RPD = 0.40	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SGHBTCLPL3_00009 Amount Added: 1.00 Units: mL

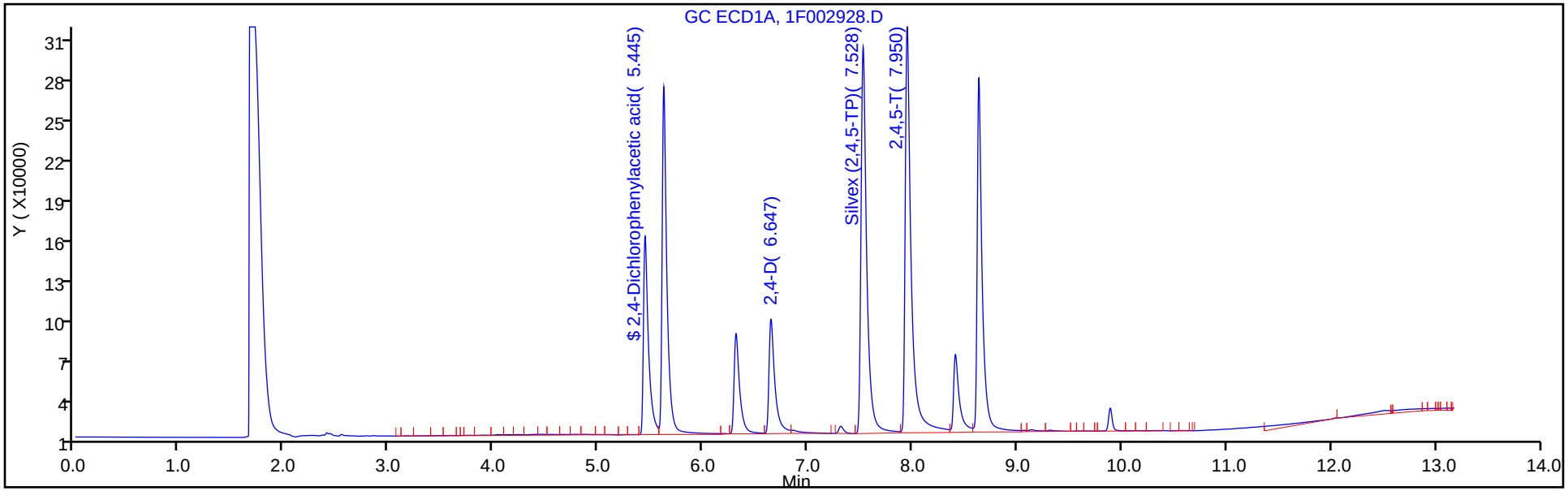
Report Date: 16-Apr-2018 13:19:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

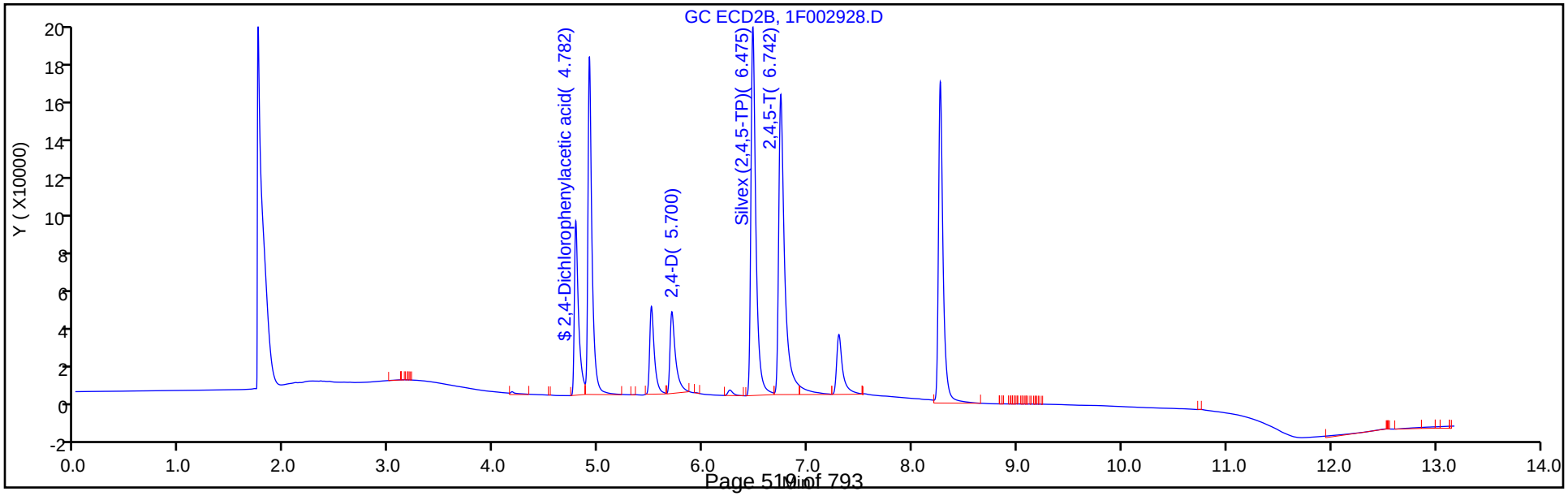
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D

Injection Date:	16-Apr-2018 12:37:59	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	69
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

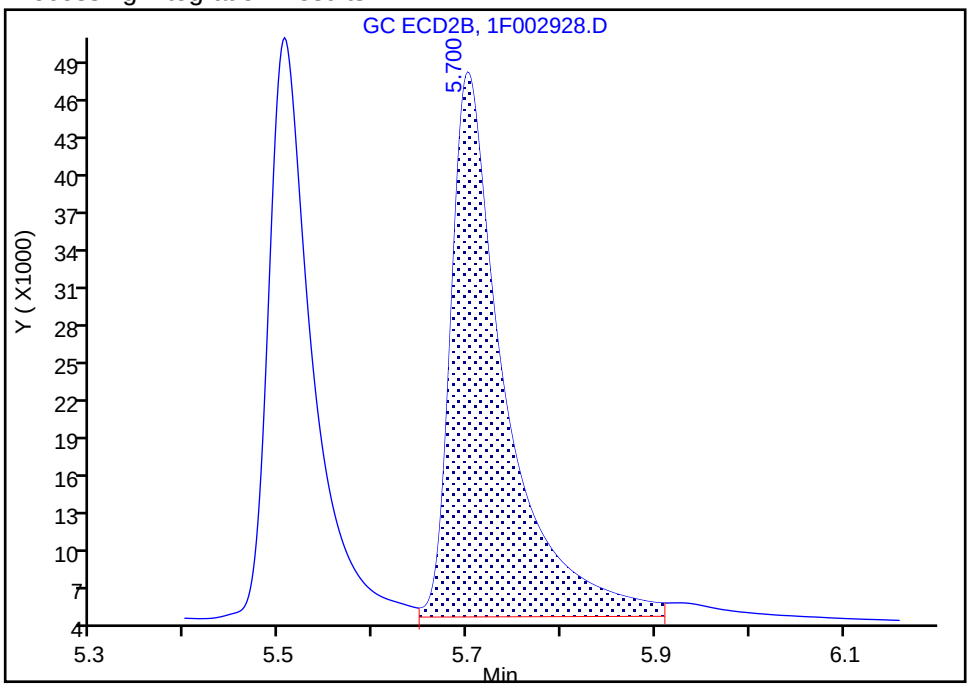
Data File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D		
Injection Date:	16-Apr-2018 12:37:59	Instrument ID:	CPESTGC1
Lims ID:	CCV		
Client ID:			
Operator ID:		ALS Bottle#:	69 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL
Column:	DB-608 (0.53 mm)	Detector	GC ECD2B

2 2,4-D, CAS: 94-75-7

Signal: 2

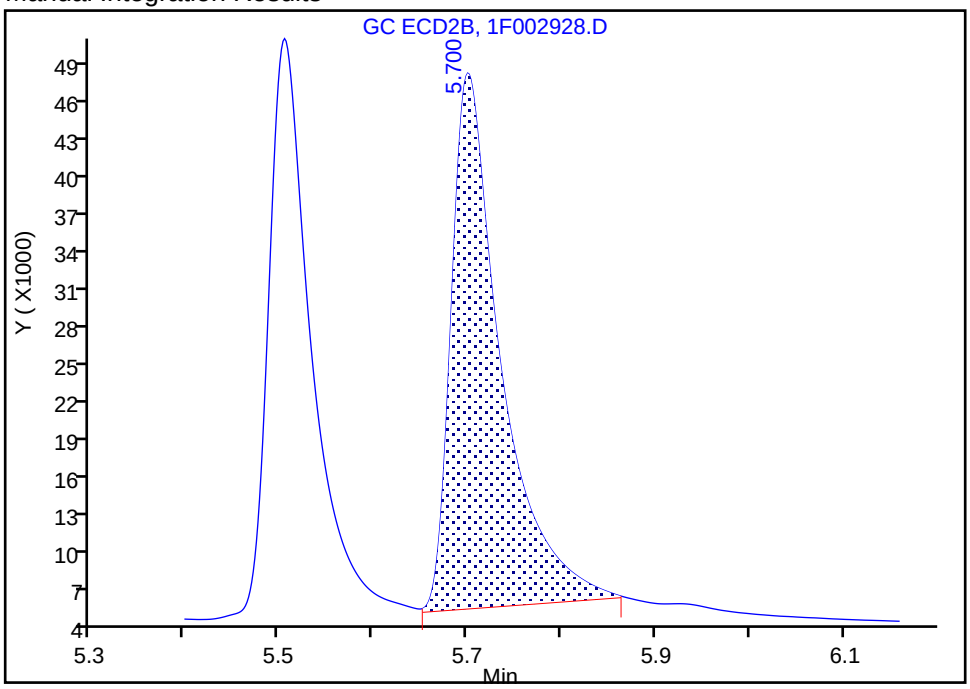
Processing Integration Results

RT: 5.70
Area: 170413
Amount: 903.4986
Amount Units: ug/l



Manual Integration Results

RT: 5.70
Area: 154214
Amount: 817.6145
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 13:17:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

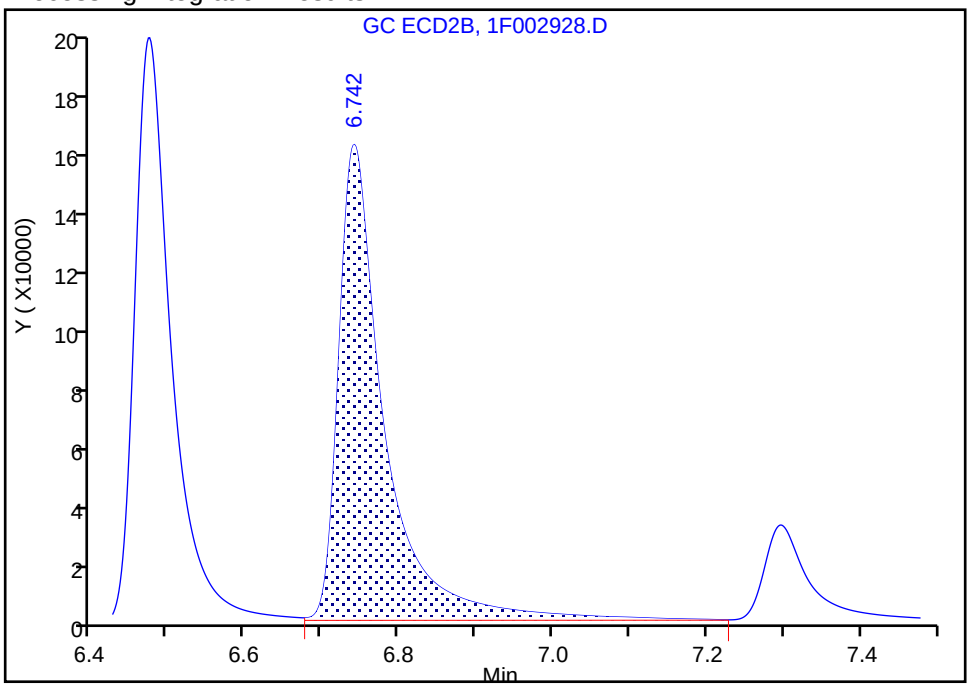
Data File:	\\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002928.D		
Injection Date:	16-Apr-2018 12:37:59	Instrument ID:	CPESTGC1
Lims ID:	CCV		
Client ID:			
Operator ID:		ALS Bottle#:	69 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL
Column:	DB-608 (0.53 mm)	Detector	GC ECD2B

4 2,4,5-T, CAS: 93-76-5

Signal: 2

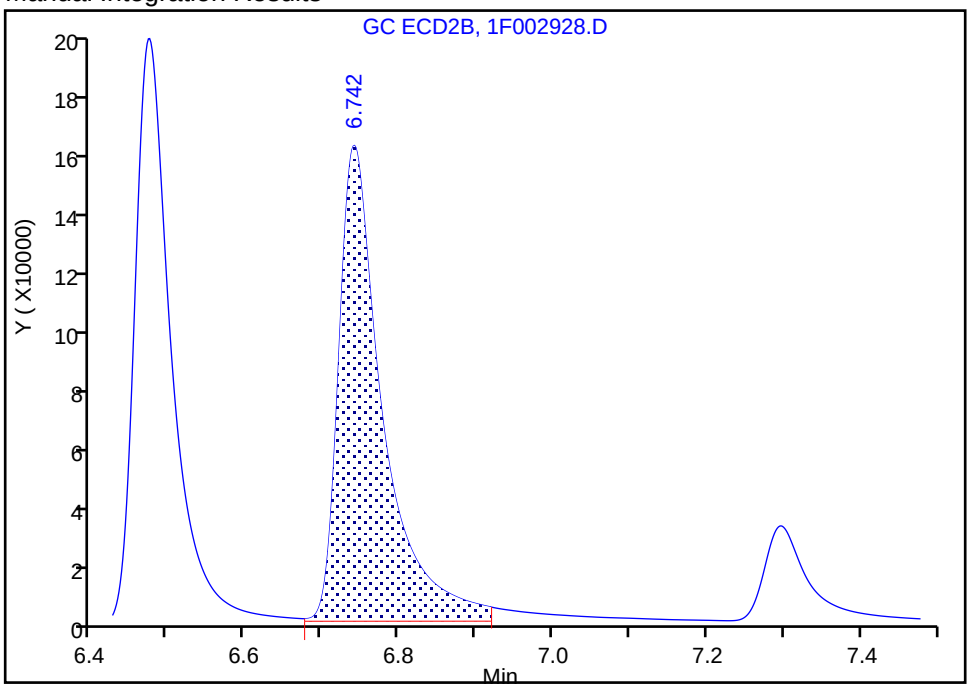
Processing Integration Results

RT: 6.74
Area: 641015
Amount: 881.2734
Amount Units: ug/l



Manual Integration Results

RT: 6.74
Area: 614046
Amount: 844.1962
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 13:17:55

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

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-511289/1-A

Matrix: Solid | Lab File ID: 1F002914.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 08:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-5 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	110		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Lims ID: MB 460-511289/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2018 08:43:12 ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-026
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:16:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.452	5.455	-0.003	364585	1000.0	1104.2	
2	4.785	4.793	-0.008	171954	1000.0	1067.5	
						RPD = 3.38	

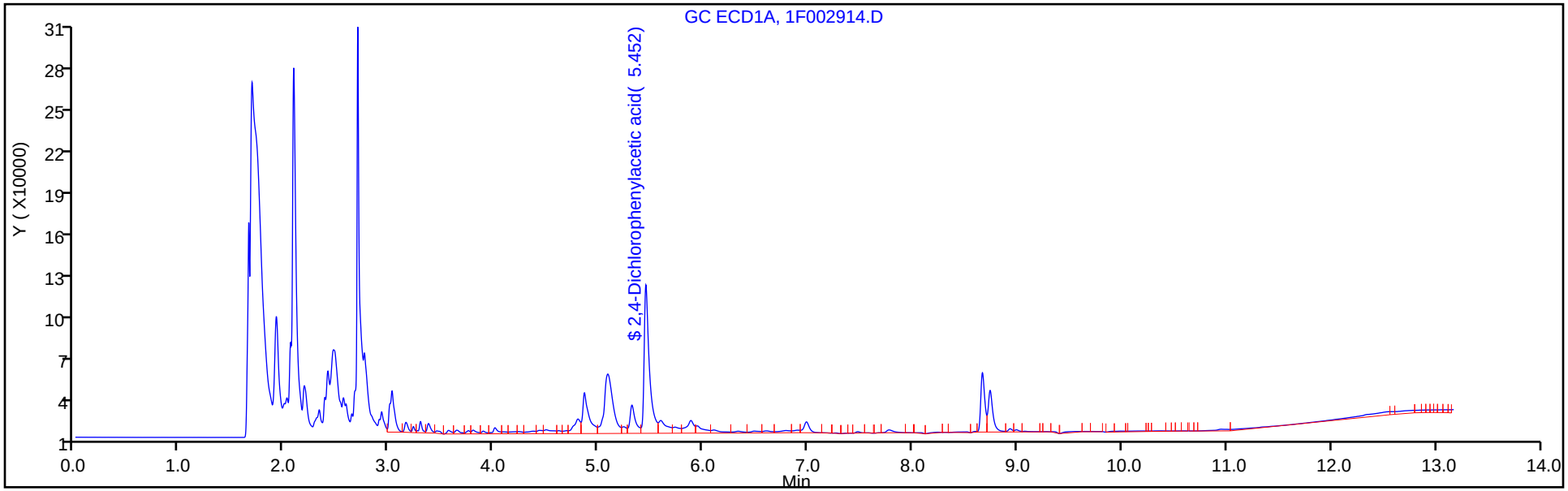
Report Date: 16-Apr-2018 13:18:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

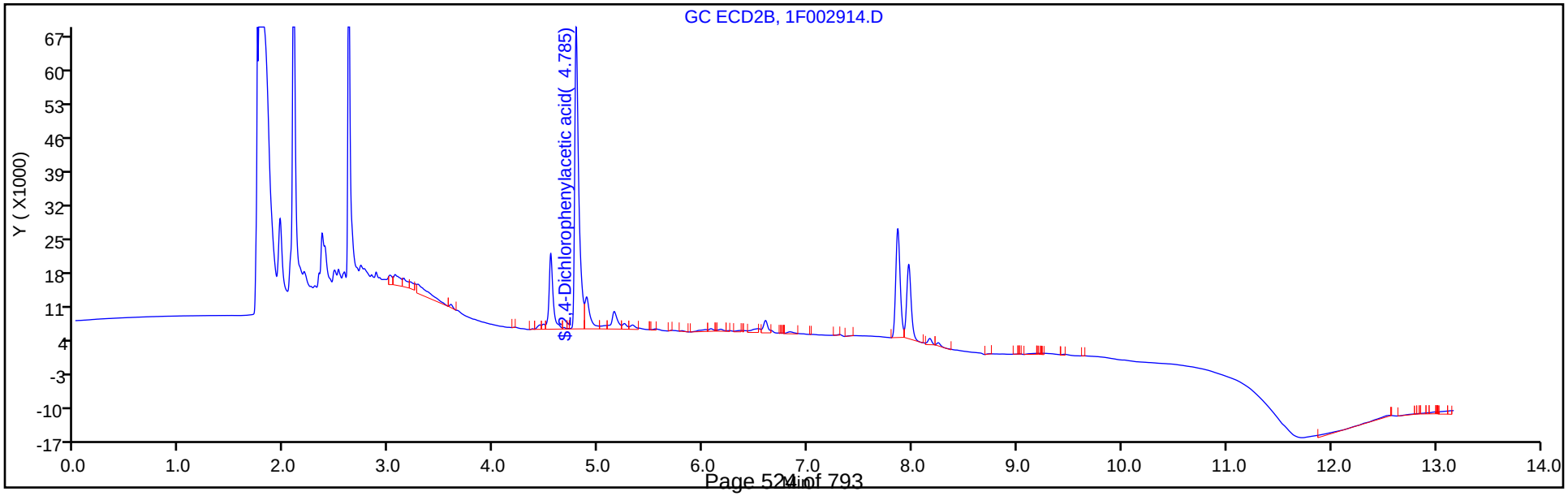
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D

Injection Date:	16-Apr-2018 08:43:12	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	MB 460-511289/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



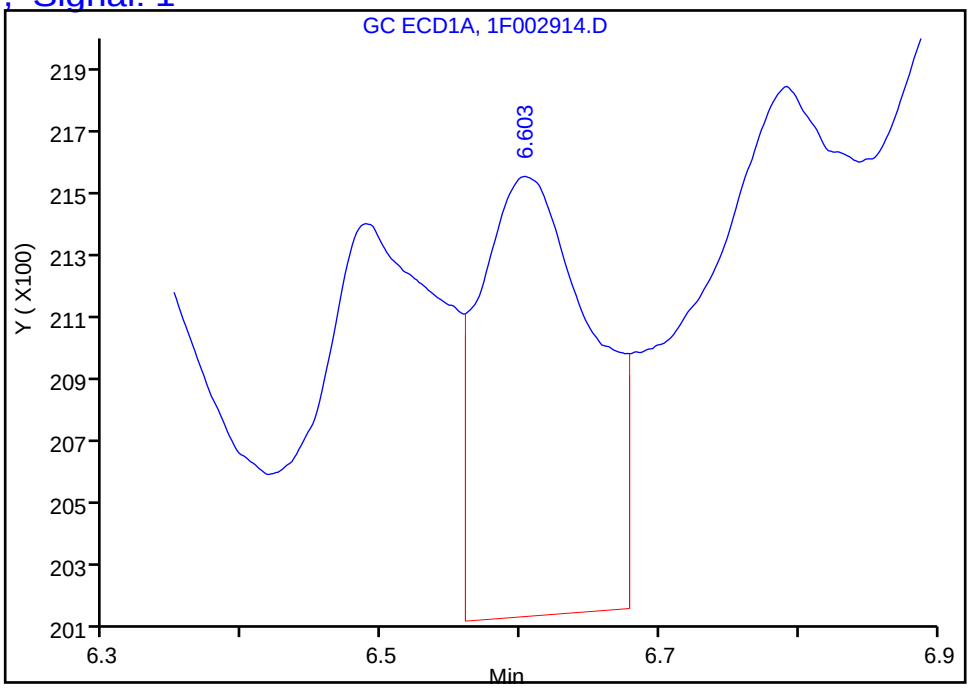
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Injection Date: 16-Apr-2018 08:43:12 Instrument ID: CPESTGC1
Lims ID: MB 460-511289/1-A
Client ID:
Operator ID: ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151TCLPGC1 Limit Group: SV GC 8151 HERBS ICAL
Column: DB-5 (0.53 mm) Detector GC ECD1A

2 2,4-D, CAS: 94-75-7, Signal: 1

RT: 6.60
Response: 7627
Amount: 19.134355



Reviewer: kapoors, 16-Apr-2018 10:16:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

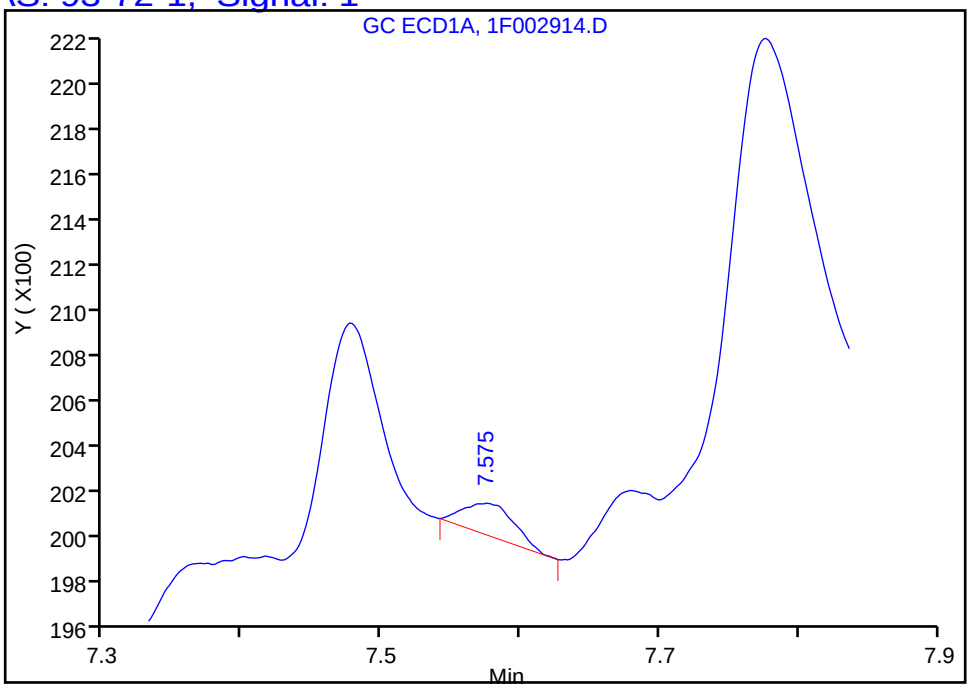
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Injection Date: 16-Apr-2018 08:43:12 Instrument ID: CPESTGC1
Lims ID: MB 460-511289/1-A
Client ID:
Operator ID: ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151TCLPGC1 Limit Group: SV GC 8151 HERBS ICAL
Column: DB-5 (0.53 mm) Detector GC ECD1A

3 Silvex (2,4,5-TP), CAS: 93-72-1, Signal: 1

RT: 7.58
Response: 359
Amount: 0.280218



Reviewer: kapoors, 16-Apr-2018 10:16:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-511289/1-A

Matrix: Solid | Lab File ID: 1F002914.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 08:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-608 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	5.0	U	83	5.0
93-72-1	Silvex (2,4,5-TP)	4.0	U	83	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	107		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Lims ID: MB 460-511289/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2018 08:43:12 ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-026
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:16:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.452	5.455	-0.003	364585	1000.0	1104.2	
2	4.785	4.793	-0.008	171954	1000.0	1067.5	
						RPD = 3.38	

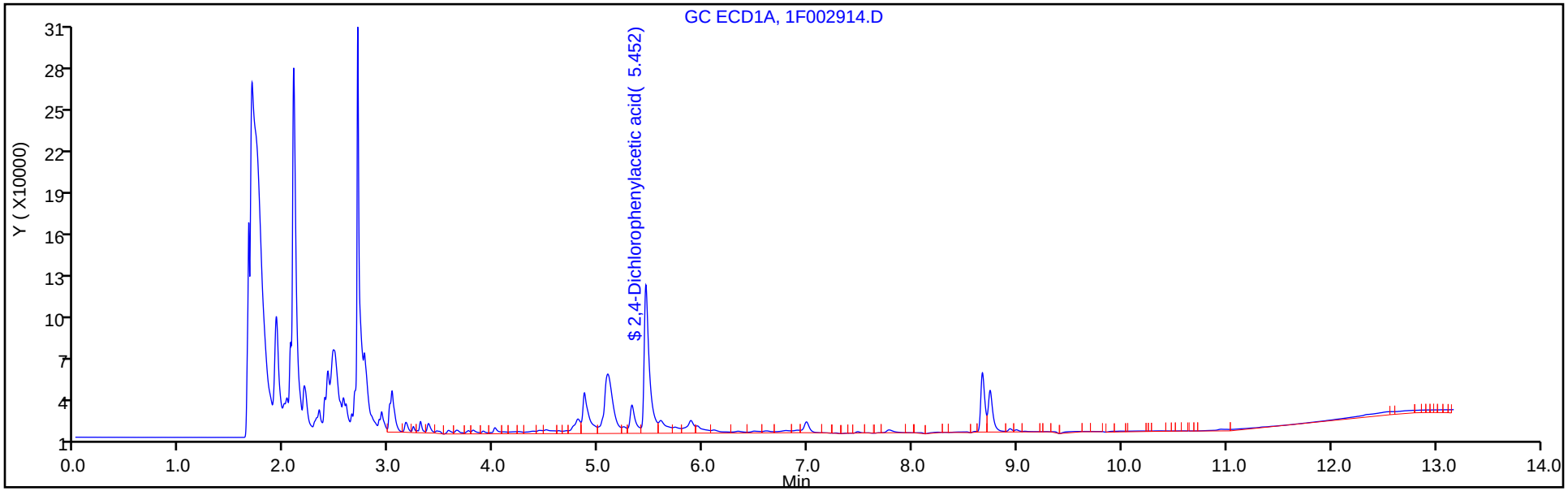
Report Date: 16-Apr-2018 13:18:35 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

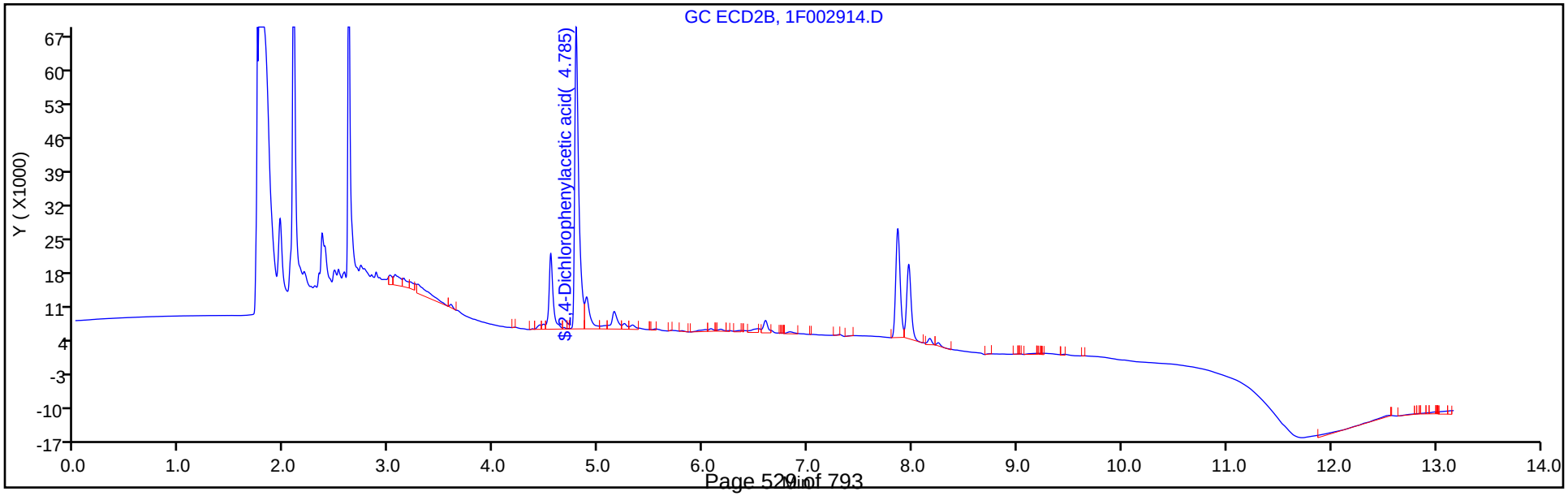
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D

Injection Date:	16-Apr-2018 08:43:12	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	MB 460-511289/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



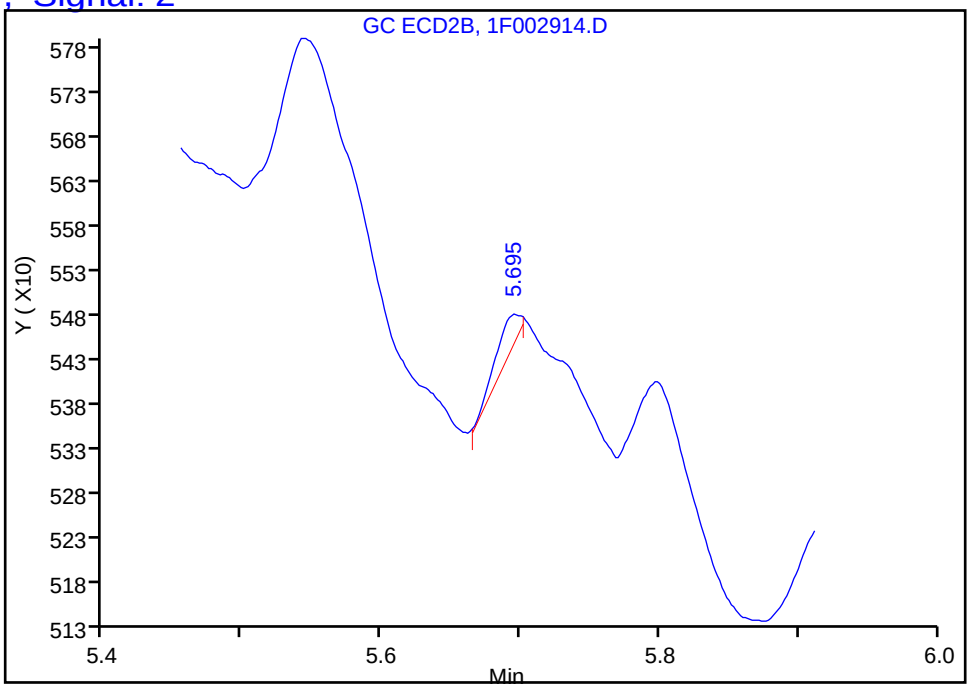
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Injection Date: 16-Apr-2018 08:43:12 Instrument ID: CPESTGC1
Lims ID: MB 460-511289/1-A
Client ID:
Operator ID: ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151TCLPGC1 Limit Group: SV GC 8151 HERBS ICAL
Column: DB-608 (0.53 mm) Detector GC ECD2B

2 2,4-D, CAS: 94-75-7, Signal: 2

RT: 5.70
Response: 49
Amount: 0.259789



Reviewer: kapoors, 16-Apr-2018 10:16:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

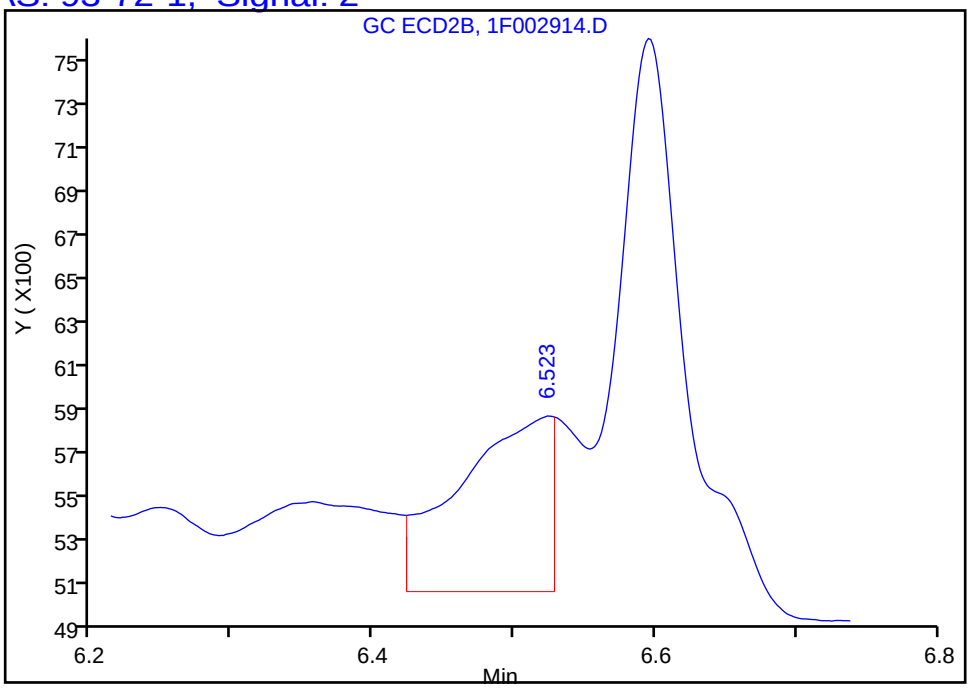
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002914.D
Injection Date: 16-Apr-2018 08:43:12 Instrument ID: CPESTGC1
Lims ID: MB 460-511289/1-A
Client ID:
Operator ID: ALS Bottle#: 55 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151TCLPGC1 Limit Group: SV GC 8151 HERBS ICAL
Column: DB-608 (0.53 mm) Detector GC ECD2B

3 Silvex (2,4,5-TP), CAS: 93-72-1, Signal: 2

RT: 6.52
Response: 3594
Amount: 4.873663



Reviewer: kapoors, 16-Apr-2018 10:16:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-511289/2-A

Matrix: Solid | Lab File ID: 1F002915.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 08:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-5 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	351		83	5.0
93-72-1	Silvex (2,4,5-TP)	97.0		83	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	113		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002915.D
Lims ID: LCS 460-511289/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2018 08:59:56 ALS Bottle#: 56 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-027
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:16:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.448	5.455	-0.007	372869	1000.0	1129.2	
2	4.783	4.793	-0.010	188149	1000.0	1168.0	
						RPD = 3.38	
2 2,4-D							M
1	6.655	6.663	-0.008	419849	800.0	1053.3	M
2	5.698	5.722	-0.024	139859	800.0	741.5	
						RPD = 34.74	
3 Silvex (2,4,5-TP)							
1	7.537	7.547	-0.010	372704	200.0	290.9	
2	6.480	6.503	-0.023	193867	200.0	262.9	
						RPD = 10.12	
4 2,4,5-T							
1	7.957	7.965	-0.008	343198	200.0	245.5	
2	6.748	6.767	-0.019	188571	200.0	259.2	
						RPD = 5.43	

QC Flag Legend

Review Flags
M - Manually Integrated

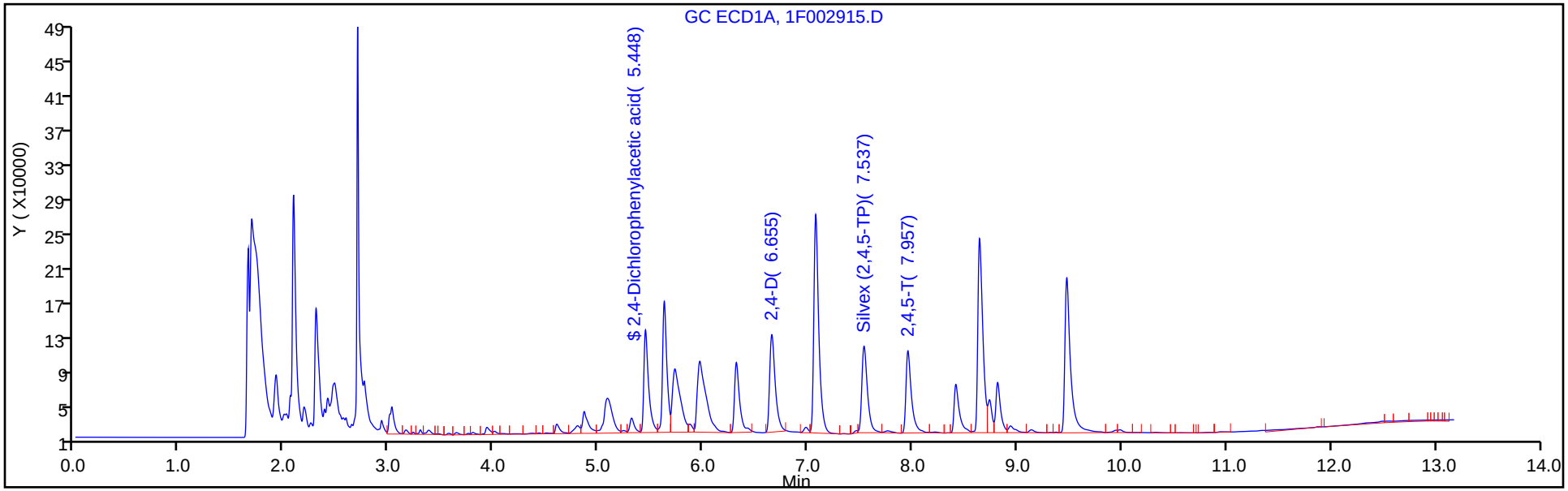
Report Date: 16-Apr-2018 13:18:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

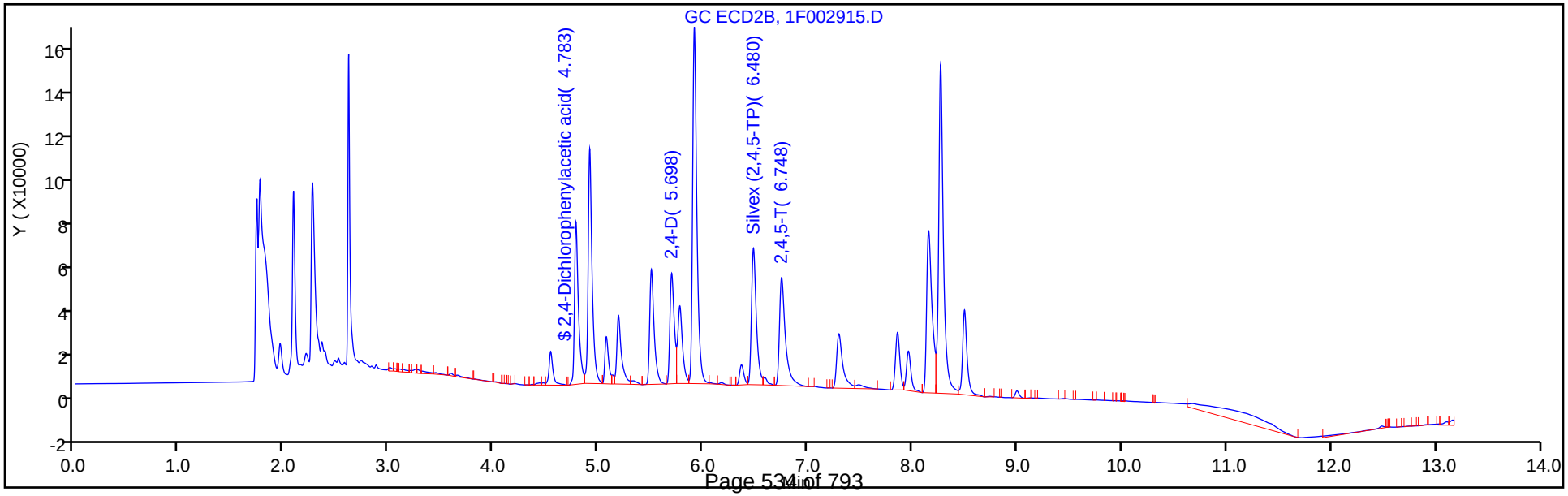
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002915.D

Injection Date:	16-Apr-2018 08:59:56	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	LCS 460-511289/2-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	56
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

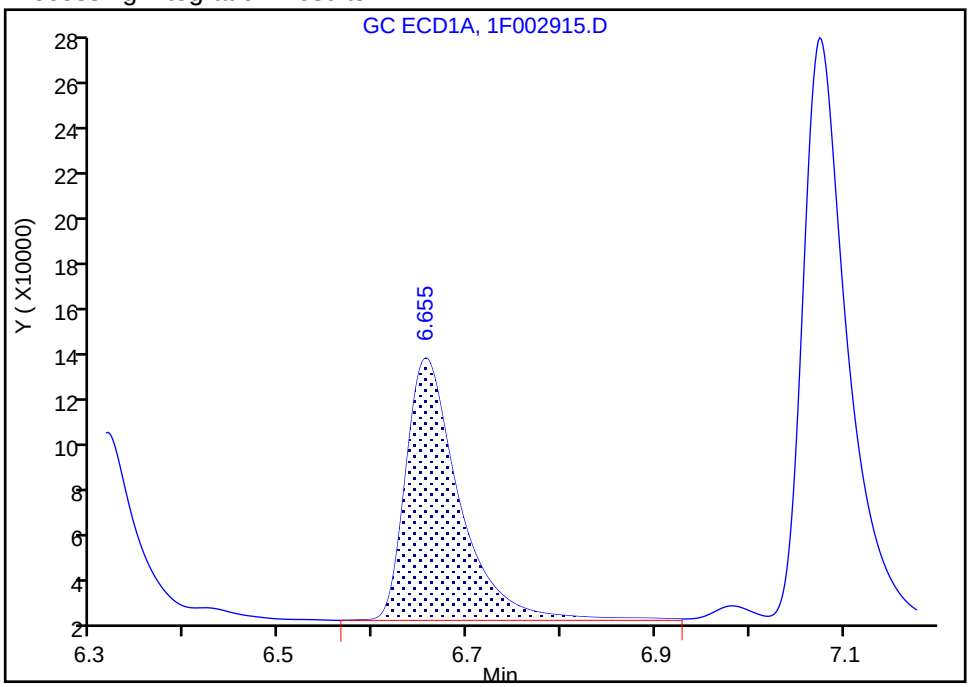
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002915.D
Injection Date: 16-Apr-2018 08:59:56 Instrument ID: CPESTGC1
Lims ID: LCS 460-511289/2-A
Client ID:
Operator ID: ALS Bottle#: 56 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151TCLPGC1 Limit Group: SV GC 8151 HERBS ICAL
Column: DB-5 (0.53 mm) Detector GC ECD1A

2 2,4-D, CAS: 94-75-7

Signal: 1

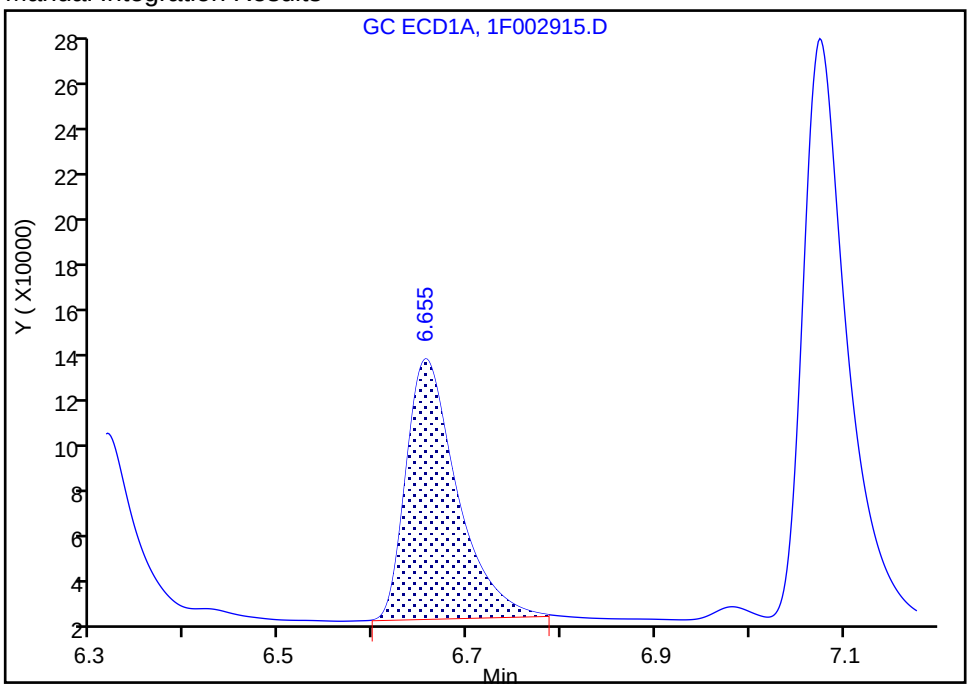
Processing Integration Results

RT: 6.66
Area: 443415
Amount: 1112.4243
Amount Units: ug/l



Manual Integration Results

RT: 6.66
Area: 419849
Amount: 1053.3027
Amount Units: ug/l



Reviewer: kapoors, 16-Apr-2018 10:16:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-511289/2-A

Matrix: Solid | Lab File ID: 1F002915.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 08:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-608 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	*2,4-D*	*247*		*83*	*5.0*
93-72-1	*Silvex (2,4,5-TP)*	*87.6*		*83*	*4.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	117		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002915.D
Lims ID: LCS 460-511289/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2018 08:59:56 ALS Bottle#: 56 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-027
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

First Level Reviewer: kapoors Date: 16-Apr-2018 10:16:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.448	5.455	-0.007	372869	1000.0	1129.2	
2	4.783	4.793	-0.010	188149	1000.0	1168.0	
						RPD = 3.38	
2 2,4-D							M
1	6.655	6.663	-0.008	419849	800.0	1053.3	M
2	5.698	5.722	-0.024	139859	800.0	741.5	
						RPD = 34.74	
3 Silvex (2,4,5-TP)							
1	7.537	7.547	-0.010	372704	200.0	290.9	
2	6.480	6.503	-0.023	193867	200.0	262.9	
						RPD = 10.12	
4 2,4,5-T							
1	7.957	7.965	-0.008	343198	200.0	245.5	
2	6.748	6.767	-0.019	188571	200.0	259.2	
						RPD = 5.43	

QC Flag Legend

Review Flags
M - Manually Integrated

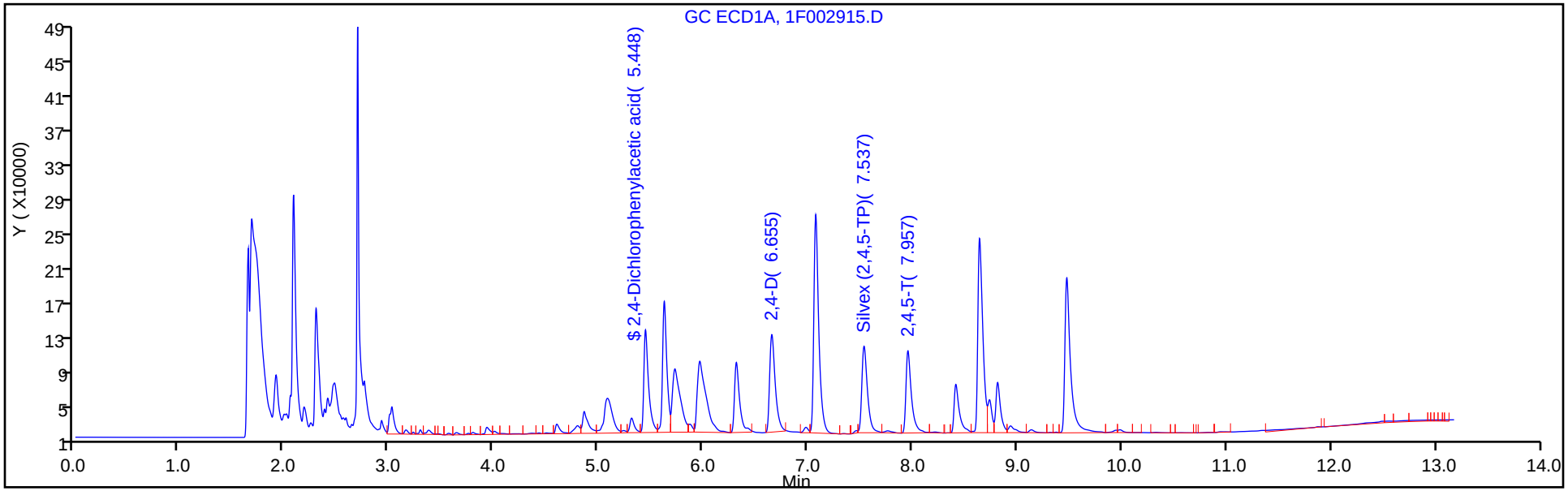
Report Date: 16-Apr-2018 13:18:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

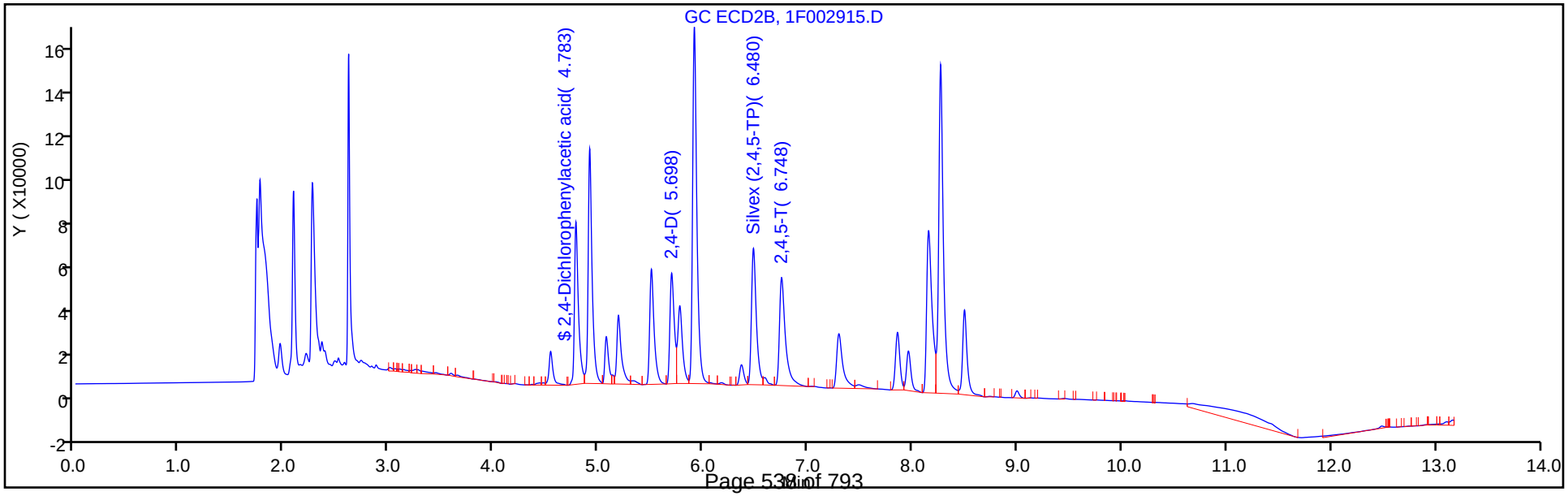
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002915.D

Injection Date:	16-Apr-2018 08:59:56	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	LCS 460-511289/2-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	56
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-153622-I-22-H MS

Matrix: Solid (TCLP) | Lab File ID: 1F002916.D

Analysis Method: 8151A | Date Collected: 04/06/2018 15:35

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 09:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-5 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	*2,4-D*	*397*		*83*	*5.0*
93-72-1	Silvex (2,4,5-TP)	101		83	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	114		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002916.D
Lims ID: 460-153622-I-22-H MS
Client ID:
Sample Type: MS
Inject. Date: 16-Apr-2018 09:16:41 ALS Bottle#: 57 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-028
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.447	5.455	-0.008	377630	1000.0	1143.7	
2	4.783	4.793	-0.010	196477	1000.0	1219.7	
						RPD = 6.44	
2 2,4-D							
1	6.653	6.663	-0.010	475324	800.0	1192.5	
2	5.698	5.722	-0.024	145912	800.0	773.6	
						RPD = 42.61	
3 Silvex (2,4,5-TP)							
1	7.533	7.547	-0.014	386960	200.0	302.0	
2	6.478	6.503	-0.025	193997	200.0	263.1	
						RPD = 13.79	
4 2,4,5-T							
1	7.952	7.965	-0.013	345780	200.0	247.4	
2	6.747	6.767	-0.020	195378	200.0	268.6	
						RPD = 8.22	

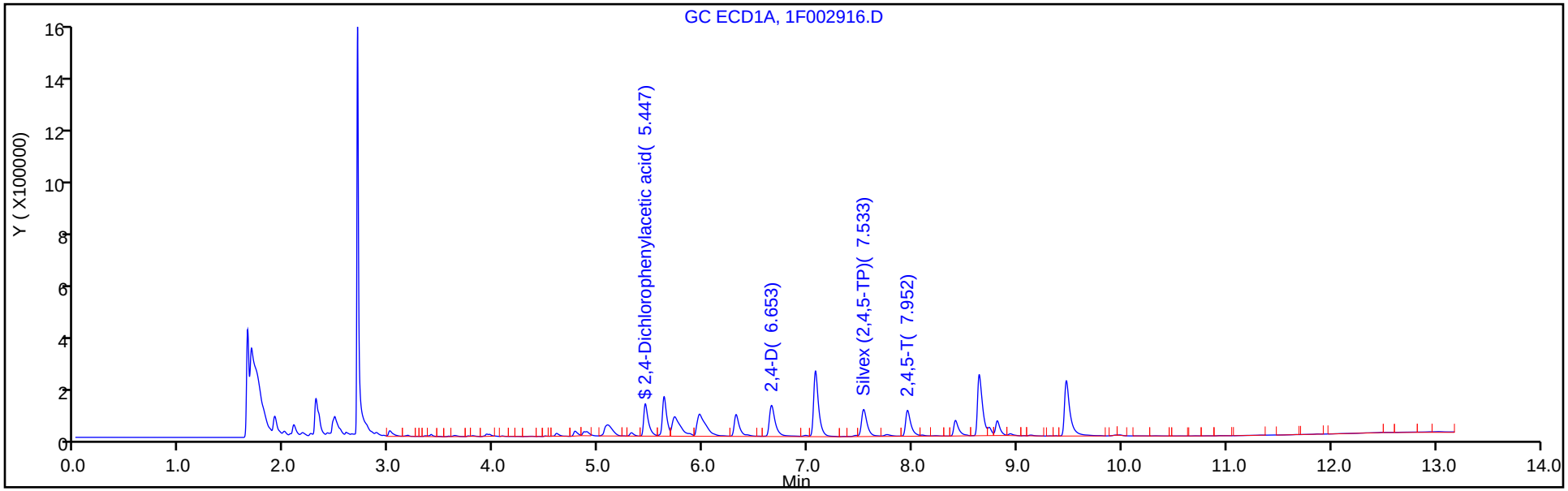
Report Date: 16-Apr-2018 13:18:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

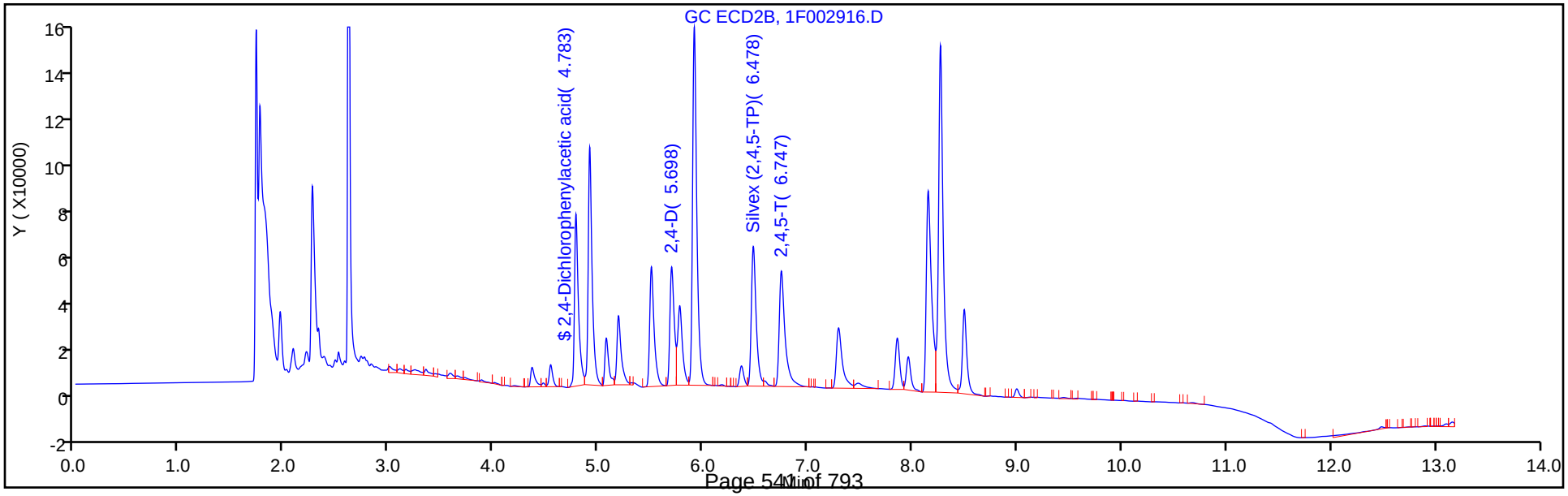
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002916.D

Injection Date:	16-Apr-2018 09:16:41	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153622-I-22-H MS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	57
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-153622-I-22-H MS

Matrix: Solid (TCLP) | Lab File ID: 1F002916.D

Analysis Method: 8151A | Date Collected: 04/06/2018 15:35

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 09:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-608 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	258		83	5.0
93-72-1	*Silvex (2,4,5-TP)*	*87.7*		*83*	*4.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	122		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002916.D
Lims ID: 460-153622-I-22-H MS
Client ID:
Sample Type: MS
Inject. Date: 16-Apr-2018 09:16:41 ALS Bottle#: 57 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-028
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.447	5.455	-0.008	377630	1000.0	1143.7	
2	4.783	4.793	-0.010	196477	1000.0	1219.7	
						RPD = 6.44	
2 2,4-D							
1	6.653	6.663	-0.010	475324	800.0	1192.5	
2	5.698	5.722	-0.024	145912	800.0	773.6	
						RPD = 42.61	
3 Silvex (2,4,5-TP)							
1	7.533	7.547	-0.014	386960	200.0	302.0	
2	6.478	6.503	-0.025	193997	200.0	263.1	
						RPD = 13.79	
4 2,4,5-T							
1	7.952	7.965	-0.013	345780	200.0	247.4	
2	6.747	6.767	-0.020	195378	200.0	268.6	
						RPD = 8.22	

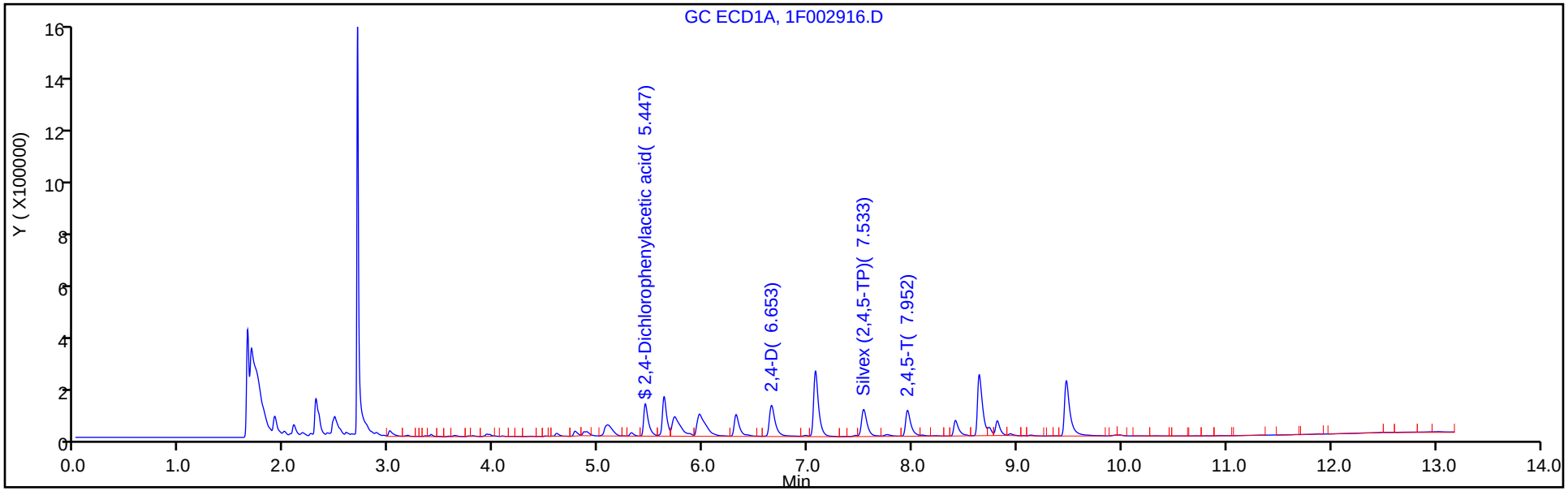
Report Date: 16-Apr-2018 13:18:39 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

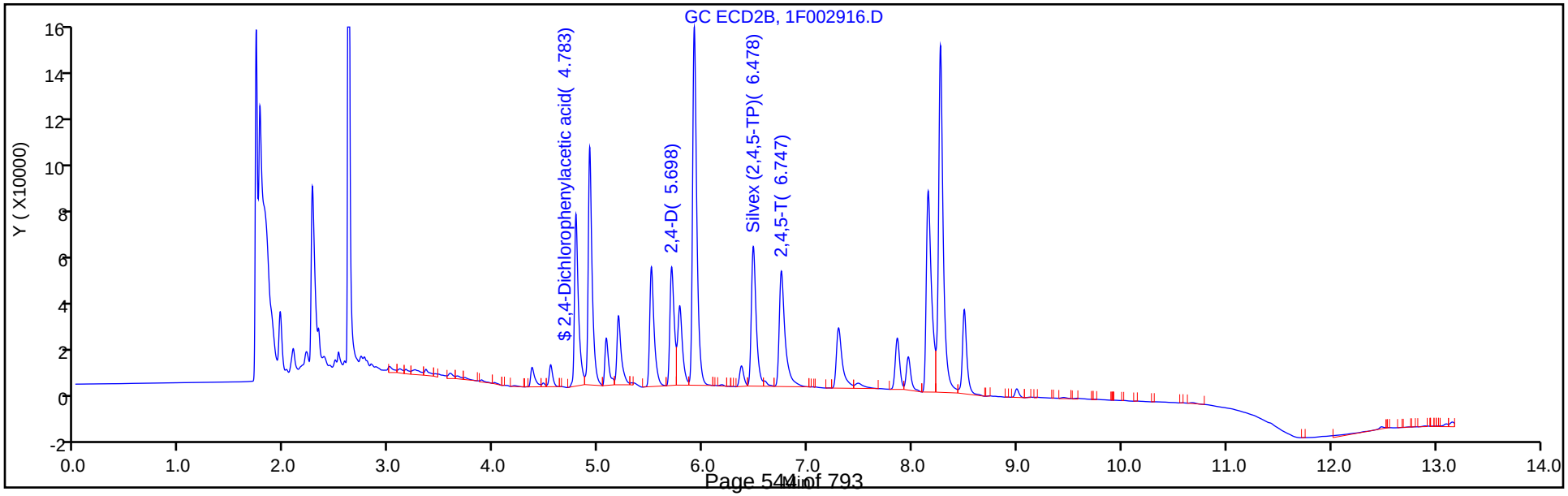
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002916.D

Injection Date:	16-Apr-2018 09:16:41	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153622-I-22-H MS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	57
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-153622-I-22-I MSD

Matrix: Solid (TCLP) | Lab File ID: 1F002917.D

Analysis Method: 8151A | Date Collected: 04/06/2018 15:35

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 09:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-5 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	*2,4-D*	*431*		*83*	*5.0*
93-72-1	Silvex (2,4,5-TP)	107		83	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	126		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002917.D
Lims ID: 460-153622-I-22-I MSD
Client ID:
Sample Type: MSD
Inject. Date: 16-Apr-2018 09:33:23 ALS Bottle#: 58 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-029
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.445	5.455	-0.010	417645	1000.0	1264.8	
2	4.782	4.793	-0.011	208021	1000.0	1291.4	
						RPD = 2.08	
2 2,4-D							
1	6.652	6.663	-0.011	515513	800.0	1293.3	
2	5.697	5.722	-0.025	156968	800.0	832.2	
						RPD = 43.39	
3 Silvex (2,4,5-TP)							
1	7.533	7.547	-0.014	410348	200.0	320.3	
2	6.478	6.503	-0.025	203158	200.0	275.5	
						RPD = 15.04	
4 2,4,5-T							
1	7.952	7.965	-0.013	366970	200.0	262.6	
2	6.745	6.767	-0.022	207114	200.0	284.7	
						RPD = 8.11	

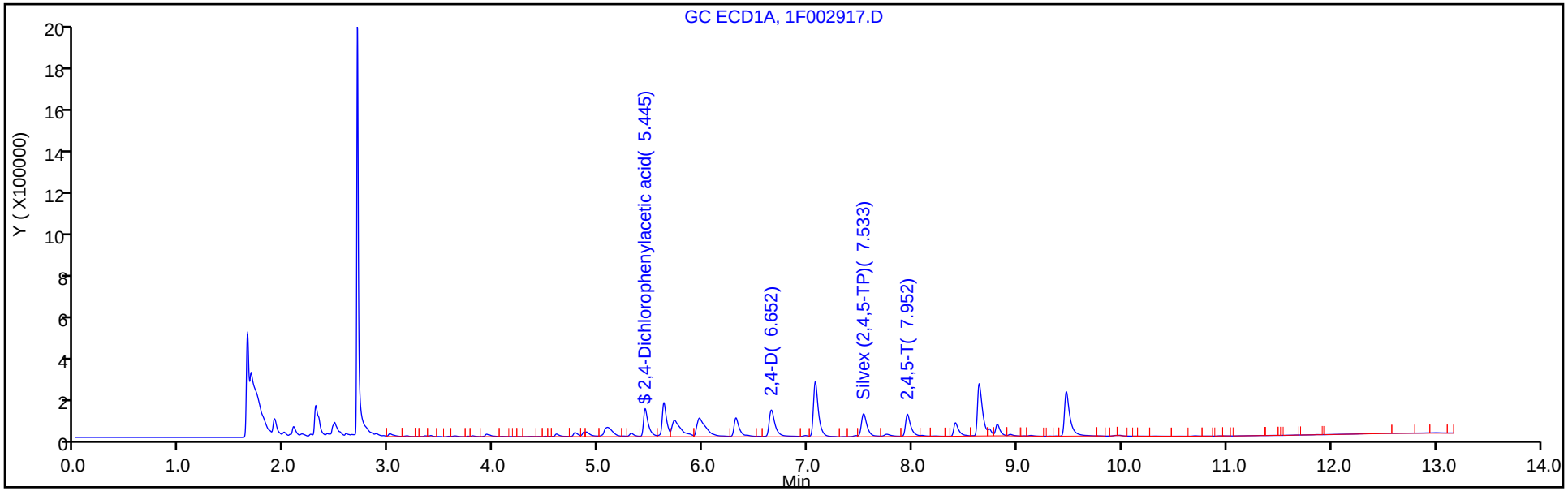
Report Date: 16-Apr-2018 13:18:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

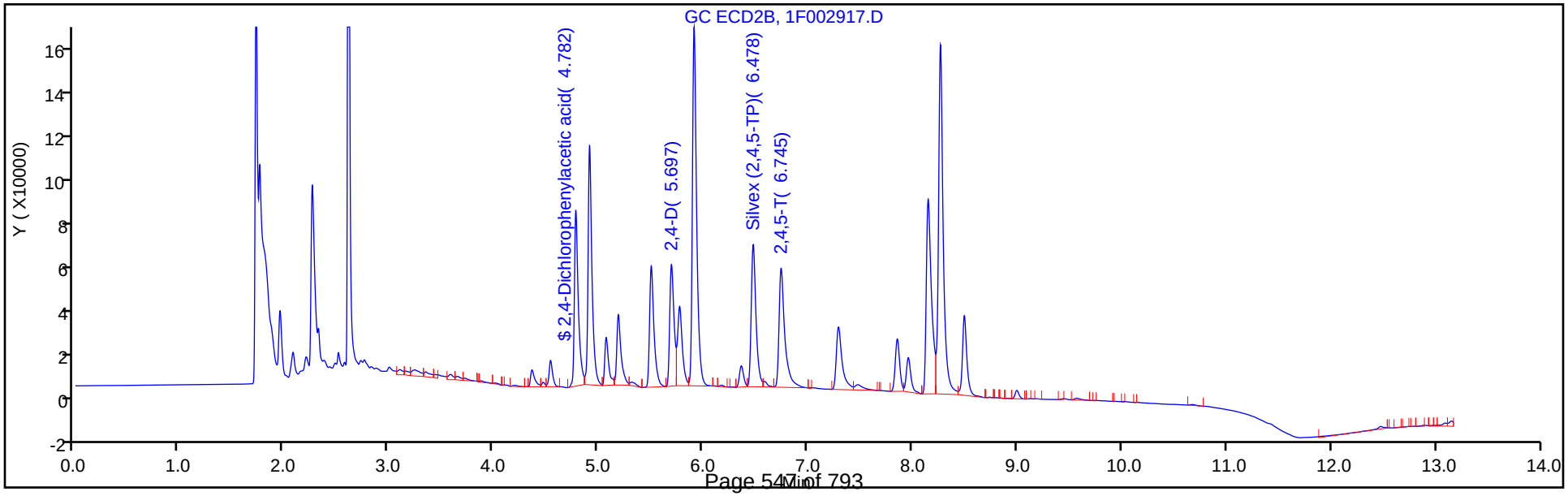
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002917.D

Injection Date:	16-Apr-2018 09:33:23	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153622-I-22-I MSD			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-153774-1

SDG No.:

Client Sample ID: | Lab Sample ID: 460-153622-I-22-I MSD

Matrix: Solid (TCLP) | Lab File ID: 1F002917.D

Analysis Method: 8151A | Date Collected: 04/06/2018 15:35

Extraction Method: 8151A | Date Extracted: 04/16/2018 00:41

Sample wt/vol: 15(mL) | Date Analyzed: 04/16/2018 09:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-608 ID: 0.53(mm)

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

Analysis Batch No.: 511359 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	277		83	5.0
93-72-1	*Silvex (2,4,5-TP)*	*91.8*		*83*	*4.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	129		54-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002917.D
Lims ID: 460-153622-I-22-I MSD
Client ID:
Sample Type: MSD
Inject. Date: 16-Apr-2018 09:33:23 ALS Bottle#: 58 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0070394-029
Operator ID: Instrument ID: CPESTGC1

Method: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\8151TCLPGC1.m
Limit Group: SV GC 8151 HERBS ICAL
Last Update: 16-Apr-2018 13:18:32 Calib Date: 17-Jan-2018 12:36:54
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC1\20180117-66202.b\1F001930.D

Column 1 : DB-5 (0.53 mm) Det: GC ECD1A
Column 2 : DB-608 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK018

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	5.445	5.455	-0.010	417645	1000.0	1264.8	
2	4.782	4.793	-0.011	208021	1000.0	1291.4	
						RPD = 2.08	
2 2,4-D							
1	6.652	6.663	-0.011	515513	800.0	1293.3	
2	5.697	5.722	-0.025	156968	800.0	832.2	
						RPD = 43.39	
3 Silvex (2,4,5-TP)							
1	7.533	7.547	-0.014	410348	200.0	320.3	
2	6.478	6.503	-0.025	203158	200.0	275.5	
						RPD = 15.04	
4 2,4,5-T							
1	7.952	7.965	-0.013	366970	200.0	262.6	
2	6.745	6.767	-0.022	207114	200.0	284.7	
						RPD = 8.11	

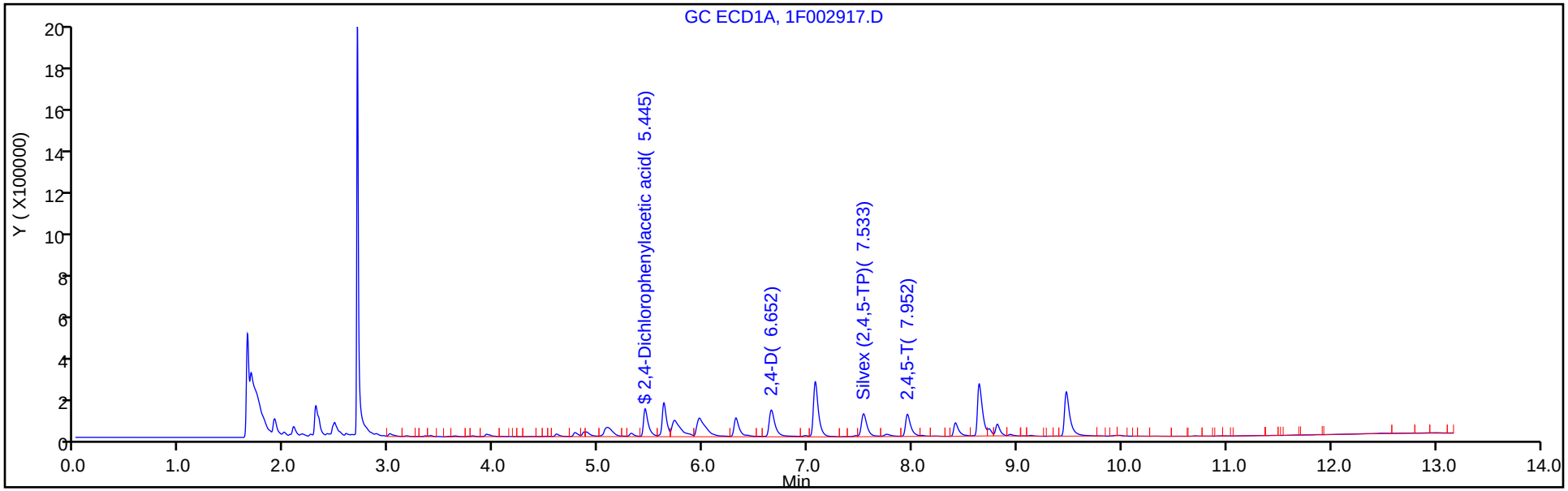
Report Date: 16-Apr-2018 13:18:42 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Edison

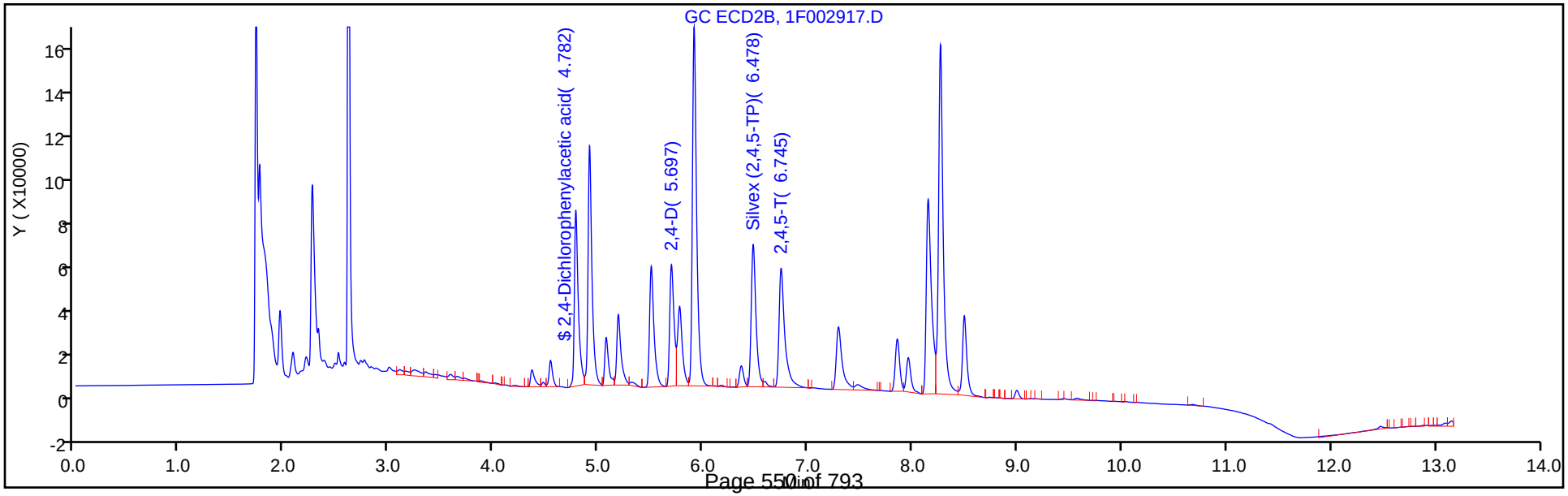
Data File: \\ChromNA\Edison\ChromData\CPESTGC1\20180416-70433.b\1F002917.D

Injection Date:	16-Apr-2018 09:33:23	Instrument ID:	CPESTGC1	Operator ID:	
Lims ID:	460-153622-I-22-I MSD			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	8151TCLPGC1	Limit Group:	SV GC 8151 HERBS ICAL		

Column: DB-5 (0.53 mm)



Column: DB-608 (0.53 mm)



HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC1 Start Date: 01/17/2018 11:30

Analysis Batch Number: 490977 End Date: 01/17/2018 13:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 460-490977/1		01/17/2018 11:30	1	1F001926.D	DB-5 0.53(mm)
IC 460-490977/1		01/17/2018 11:30	1	1F001926.D	DB-608 0.53(mm)
IC 460-490977/2		01/17/2018 11:47	1	1F001927.D	DB-5 0.53(mm)
IC 460-490977/2		01/17/2018 11:47	1	1F001927.D	DB-608 0.53(mm)
IC 460-490977/3 ICRT		01/17/2018 12:03	1	1F001928.D	DB-5 0.53(mm)
IC 460-490977/3 ICRT		01/17/2018 12:03	1	1F001928.D	DB-608 0.53(mm)
IC 460-490977/4		01/17/2018 12:20	1	1F001929.D	DB-5 0.53(mm)
IC 460-490977/4		01/17/2018 12:20	1	1F001929.D	DB-608 0.53(mm)
IC 460-490977/5		01/17/2018 12:36	1	1F001930.D	DB-5 0.53(mm)
IC 460-490977/5		01/17/2018 12:36	1	1F001930.D	DB-608 0.53(mm)
ICV 460-490977/6		01/17/2018 12:53	1		DB-5 0.53(mm)
ICV 460-490977/6		01/17/2018 12:53	1		DB-608 0.53(mm)
CCV 460-490977/7		01/17/2018 13:09	1		DB-5 0.53(mm)
CCV 460-490977/7		01/17/2018 13:09	1		DB-608 0.53(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC1 Start Date: 04/16/2018 08:26

Analysis Batch Number: 511359 End Date: 04/16/2018 15:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 460-511359/1		04/16/2018 08:26	1	1F002913.D	DB-5 0.53(mm)
CCV 460-511359/1		04/16/2018 08:26	1	1F002913.D	DB-608 0.53(mm)
MB 460-511289/1-A		04/16/2018 08:43	1	1F002914.D	DB-5 0.53(mm)
MB 460-511289/1-A		04/16/2018 08:43	1	1F002914.D	DB-608 0.53(mm)
LCS 460-511289/2-A		04/16/2018 08:59	1	1F002915.D	DB-5 0.53(mm)
LCS 460-511289/2-A		04/16/2018 08:59	1	1F002915.D	DB-608 0.53(mm)
460-153622-I-22-H MS		04/16/2018 09:16	1	1F002916.D	DB-5 0.53(mm)
460-153622-I-22-H MS		04/16/2018 09:16	1	1F002916.D	DB-608 0.53(mm)
460-153622-I-22-I MSD		04/16/2018 09:33	1	1F002917.D	DB-5 0.53(mm)
460-153622-I-22-I MSD		04/16/2018 09:33	1	1F002917.D	DB-608 0.53(mm)
ZZZZZ		04/16/2018 09:50	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 09:50	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 10:06	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 10:06	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 10:23	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 10:23	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 10:40	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 10:40	1		DB-608 0.53(mm)
460-153774-1		04/16/2018 10:57	1	1F002922.D	DB-5 0.53(mm)
460-153774-1		04/16/2018 10:57	1	1F002922.D	DB-608 0.53(mm)
ZZZZZ		04/16/2018 11:14	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 11:14	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 11:30	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 11:30	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 11:48	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 11:48	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 12:04	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 12:04	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 12:21	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 12:21	1		DB-608 0.53(mm)
CCV 460-511359/16		04/16/2018 12:37	1	1F002928.D	DB-5 0.53(mm)
CCV 460-511359/16		04/16/2018 12:37	1	1F002928.D	DB-608 0.53(mm)
		04/16/2018 13:18	1		DB-5 0.53(mm)
		04/16/2018 13:18	1		DB-608 0.53(mm)
		04/16/2018 13:35	1		DB-5 0.53(mm)
		04/16/2018 13:35	1		DB-608 0.53(mm)
		04/16/2018 13:51	1		DB-5 0.53(mm)
		04/16/2018 13:51	1		DB-608 0.53(mm)
		04/16/2018 14:08	1		DB-5 0.53(mm)
		04/16/2018 14:08	1		DB-608 0.53(mm)
		04/16/2018 14:25	1		DB-5 0.53(mm)
		04/16/2018 14:25	1		DB-608 0.53(mm)
		04/16/2018 14:41	1		DB-5 0.53(mm)
		04/16/2018 14:41	1		DB-608 0.53(mm)

8151A

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: CPESTGC1 Start Date: 04/16/2018 08:26

Analysis Batch Number: 511359 End Date: 04/16/2018 15:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
		04/16/2018 14:58	1		DB-5 0.53(mm)
		04/16/2018 14:58	1		DB-608 0.53(mm)
ZZZZZ		04/16/2018 15:15	1		DB-5 0.53(mm)
ZZZZZ		04/16/2018 15:15	1		DB-608 0.53(mm)
CCV 460-511359/25		04/16/2018 15:56	1		DB-5 0.53(mm)
CCV 460-511359/25		04/16/2018 15:56	1		DB-608 0.53(mm)

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	VesselNumber	FiltCompDate
460-153774-A-1	AshPit	1311, 8151A, 8151A	P	100.07 g	2000 mL	9.06 SU	1.67	AA2	4/14/18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
460-153774-A-1	AshPit	1311, 8151A, 8151A	P	0830	6.14 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511289 Batch Start Date: 04/16/18 00:41 Batch Analyst: Romano, Alfredo F

Batch Method: 8151A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_HERB_SU 00032
MB 460-511289/1		8151A, 8151A		15 mL	5 mL	7 SU	>12 SU	<2	50 uL
LCS 460-511289/2		8151A, 8151A		15 mL	5 mL	7 SU	>12 SU	<2	50 uL
460-153622-I-22 -B MS		8151A, 8151A	P	15 mL	5 mL	5 SU	>12 SU	<2	50 uL
460-153622-I-22 -B MSD		8151A, 8151A	P	15 mL	5 mL	5 SU	>12 SU	<2	50 uL
460-153774-A-1- A	AshPit	8151A, 8151A	P	15 mL	5 mL	7 SU	>12 SU	<2	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_Herbsp RTS 00005					
MB 460-511289/1		8151A, 8151A							
LCS 460-511289/2		8151A, 8151A		200 uL					
460-153622-I-22 -B MS		8151A, 8151A	P	200 uL					
460-153622-I-22 -B MSD		8151A, 8151A	P	200 uL					
460-153774-A-1- A	AshPit	8151A, 8151A	P						

Batch Notes	
Batch Comment	8151A Herb TCLP
Carbitol ID	04508HEV
Diazald ID	OP2514
Diethyl Ether ID	177150 (-peroxide<0.5ppm)
Analyst ID - Extraction	AR
Sulfuric Acid Lot Number	186983
Potassium Hydroxide ID	OP2381
Acidified Na2SO4 ID	OP2513
Peroxide Test Strip ID	110011
Analyst ID - Spike Analyst	AR
Sufficient Volume for Batch QC	Yes

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511289 Batch Start Date: 04/16/18 00:41 Batch Analyst: Romano, Alfredo F

Batch Method: 8151A Batch End Date:

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-153774-1

SDG No.:

Project: Suffolk County Firematics Site

Client Sample ID	Lab Sample ID
AshPit	460-153774-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: AshPit
Lab Sample ID: 460-153774-1
Lab Name: TestAmerica Edison
Job No.: 460-153774-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/11/2018 11:45
Reporting Basis: WET
Date Received: 04/11/2018 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	49.1	75.0	21.8	ug/L	J		5	6010C
7440-39-3	Barium	2900	1000	43.2	ug/L			5	6010C
7440-43-9	Cadmium	16.6	20.0	9.2	ug/L	J		5	6010C
7440-47-3	Chromium	16.6	50.0	16.6	ug/L	U		5	6010C
7439-92-1	Lead	20.4	50.0	20.4	ug/L	U		5	6010C
7782-49-2	Selenium	22.2	100	22.2	ug/L	U		5	6010C
7440-22-4	Silver	9.0	50.0	9.0	ug/L	U		5	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_CCV_DUO_00168 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00168

Analyte	ICV 460-511442/7 04/16/2018 11:38				CCV 460-511442/14 04/16/2018 12:13				CCV 460-511442/27 04/16/2018 13:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2451		2500	98	2450		2500	98	2483		2500	99
Barium	9942		10000	99	9973		10000	100	10080		10000	101
Cadmium	1237		1250	99	1241		1250	99	1253		1250	100
Chromium	4949		5000	99	4972		5000	99	5019		5000	100
Lead	7428		7500	99	7456		7500	99	7531		7500	100
Selenium	2466		2500	99	2467		2500	99	2501		2500	100
Silver	1224		1250	98	1226		1250	98	1238		1250	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_CCV_DUO_00168 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00168

Analyte	CCV 460-511442/40 04/16/2018 13:57											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2454		2500	98								
Barium	9944		10000	99								
Cadmium	1234		1250	99								
Chromium	4925		5000	99								
Lead	7418		7500	99								
Selenium	2472		2500	99								
Silver	1226		1250	98								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_Cal2_BC_00032 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00032

Analyte	ICVL 460-511442/9 04/16/2018 11:45				CCVL 460-511442/16 04/16/2018 12:20				CCVL 460-511442/29 04/16/2018 13:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	14.64	J	15.0	98	13.91	J	15.0	93	13.91	J	15.0	93
Barium	184.3	J	200	92	184.3	J	200	92	185.4	J	200	93
Cadmium	3.65	J	4.00	91	3.62	J	4.00	90	3.67	J	4.00	92
Chromium	8.99	J	10.0	90	8.85	J	10.0	89	9.14	J	10.0	91
Lead	9.78	J	10.0	98	10.25		10.0	103	8.71	J	10.0	87
Selenium	17.01	J	20.0	85	16.08	J	20.0	80	19.00	J	20.0	95
Silver	8.55	J	10.0	85	8.30	J	10.0	83	8.86	J	10.0	89

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_Cal2_BC_00032 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00032

Analyte	CCVL 460-511442/42 04/16/2018 14:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	13.20	J	15.0	88								
Barium	183.7	J	200	92								
Cadmium	3.65	J	4.00	91								
Chromium	8.94	J	10.0	89								
Lead	9.45	J	10.0	95								
Selenium	17.82	J	20.0	89								
Silver	8.28	J	10.0	83								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_DQCS-INT_02714 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02986

Analyte	ICV 460-511405/31-A 04/16/2018 13:28				CCV 460-511405/33-A 04/16/2018 14:18				CCV 460-511405/33-A 04/16/2018 14:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.95		5.00	99	4.77		5.00	95	4.62		5.00	92

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

ICV Source: ME_DQCS-INT_02714 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_02986

Analyte	CCV 460-511405/33-A 04/16/2018 15:00				CCV 460-511405/33-A 04/16/2018 15:20				CCV 460-511405/33-A 04/16/2018 15:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.87		5.00	97	4.84		5.00	97	4.85		5.00	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Method: 7470A Instrument ID: LEEMAN6

Lab Sample ID: CRI 460-511457/16 Concentration Units: ug/L

CRQL Check Standard Source:

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury		0.234			

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-511442/8 04/16/2018 11:41		CCB 460-511442/15 04/16/2018 12:16		CCB 460-511442/28 04/16/2018 13:08		CCB 460-511442/41 04/16/2018 14:00	
		Found	C	Found	C	Found	C	Found	C
Arsenic	15.0	4.4	U	4.4	U	4.4	U	4.4	U
Barium	200	8.6	U	8.6	U	8.6	U	8.6	U
Cadmium	4.0	1.8	U	1.8	U	1.8	U	1.8	U
Chromium	10.0	3.3	U	3.3	U	3.3	U	3.3	U
Lead	10.0	4.1	U	4.1	U	4.1	U	4.1	U
Selenium	20.0	4.4	U	4.4	U	4.4	U	4.4	U
Silver	10.0	1.8	U	1.8	U	1.8	U	1.8	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-511457/15 04/16/2018 13:30		CCB 460-511457/44 04/16/2018 14:20		CCB 460-511457/56 04/16/2018 14:41		CCB 460-511457/68 04/16/2018 15:01	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U	0.17	U	0.17	U	0.17	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 460-511457/80 04/16/2018 15:22		CCB 460-511457/92 04/16/2018 15:43					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.17	U	0.17	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-511164/1-A ^5

Instrument Code: ICP5 Batch No.: 511442

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	21.8	U		6010C
7440-39-3	Barium	43.2	U		6010C
7440-43-9	Cadmium	9.2	U		6010C
7440-47-3	Chromium	16.6	U		6010C
7439-92-1	Lead	20.4	U		6010C
7782-49-2	Selenium	22.2	U		6010C
7440-22-4	Silver	9.0	U		6010C

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: LB 460-511103/1-B ^5

Instrument Code: ICP5 Batch No.: 511442

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	21.8	U		6010C
7440-39-3	Barium	43.2	U		6010C
7440-43-9	Cadmium	9.2	U		6010C
7440-47-3	Chromium	16.6	U		6010C
7439-92-1	Lead	20.4	U		6010C
7782-49-2	Selenium	22.2	U		6010C
7440-22-4	Silver	9.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-511409/1-A

Instrument Code: LEEMAN6 Batch No.: 511457

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.17	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: LB 460-511103/1-F

Instrument Code: LEEMAN6 Batch No.: 511457

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.17	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: ICSA 460-511442/17 Instrument ID: ICP5

Lab File ID: 511164D1.asc ICS Source: ME_ICSA_Duo_00081

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**2.50**	
Barium		**-3.07**	
Cadmium		**0.166**	
Chromium		**-1.09**	
Lead		**-2.80**	
Selenium		**7.56**	
Silver		**0.445**	
Aluminum	*500000*	*498500*	*100*
Antimony		*-0.363*	
Beryllium		*-0.0275*	
Boron		*3.25*	
Calcium	*500000*	*487500*	*98*
Cobalt		*-3.24*	
Copper		*2.40*	
Iron	*200000*	*192700*	*96*
Magnesium	*500000*	*492500*	*99*
Manganese		*0.801*	
Molybdenum		*1.53*	
Nickel		*-2.36*	
Potassium		*-20.3*	
Sodium		*88.4*	
Strontium		*-1.27*	
Thallium		*-1.39*	
Tin		*-0.809*	
Titanium		*-2.64*	
Vanadium		*-0.859*	
Zinc		*-2.67*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Lab Sample ID: ICSAB 460-511442/18 Instrument ID: ICP5

Lab File ID: 511164D1.asc ICS Source: ME_ICSAB_DUO_00100

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**100**	**95.8**	**96**
Barium	**100**	**97.6**	**98**
Cadmium	**100**	**95.2**	**95**
Chromium	**100**	**96.6**	**97**
Lead	**100**	**90.5**	**90**
Selenium	**100**	**103**	**103**
Silver	**100**	**101**	**101**
Aluminum	*500000*	*480000*	*96*
Antimony	*100*	*99.1*	*99*
Beryllium	*100*	*98.4*	*98*
Boron	*100*	*88.7*	*89*
Calcium	*500000*	*473400*	*95*
Cobalt	*100*	*91.9*	*92*
Copper	*100*	*106*	*106*
Iron	*200000*	*187100*	*94*
Magnesium	*500000*	*475500*	*95*
Manganese	*100*	*100*	*100*
Molybdenum	*100*	*97.6*	*98*
Nickel	*100*	*92.7*	*93*
Potassium	*10000*	*10130*	*101*
Sodium	*10000*	*10590*	*106*
Strontium	*100*	*98.3*	*98*
Thallium	*100*	*91.3*	*91*
Tin	*100*	*95.0*	*95*
Titanium	*100*	*99.9*	*100*
Vanadium	*100*	*96.6*	*97*
Zinc	*100*	*91.1*	*91*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: _____ Lab ID: 460-153622-I-22-E MS ^5

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.: _____

Matrix: Solid Concentration Units: ug/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	5085		21.8	U	5000	102	75-125		6010C
Barium	10830		349	J	10000	105	75-125		6010C
Cadmium	1062		9.2	U	1000	106	75-125		6010C
Chromium	5355		16.6	U	5000	107	75-125		6010C
Lead	5295		54.4		5000	105	75-125		6010C
Selenium	1054		22.2	U	1000	105	75-125		6010C
Silver	498.6		9.0	U	500	100	75-125		6010C

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 460-153677-D-8-I MS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	4.90		0.17	U	5.00	98	75-125		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: Lab ID: 460-153622-I-22-C PDS ^5

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Matrix: Solid Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	9975		21.8	U	10000	100	80-120		6010C
Barium	10580		349	J	10000	102	80-120		6010C
Cadmium	255.6		9.2	U	250	102	80-120		6010C
Chromium	1054		16.6	U	1000	105	80-120		6010C
Lead	2602		54.4		2500	102	80-120		6010C
Selenium	10220		22.2	U	10000	102	80-120		6010C
Silver	228.6		9.0	U	250	91	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS - TCLP

Client ID: _____ Lab ID: 460-153622-I-22-D DU ^5

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Solid Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	75.0	21.8	U	21.8	U	NC		6010C
Barium	1000	349	J	373.2	J	7		6010C
Cadmium	20.0	9.2	U	9.2	U	NC		6010C
Chromium	50.0	16.6	U	16.6	U	NC		6010C
Lead	50.0	54.4		61.85		13		6010C
Selenium	100	22.2	U	22.2	U	NC		6010C
Silver	50.0	9.0	U	9.0	U	NC		6010C

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

FORM VI-IN

6-IN
DUPLICATES
METALS - TCLP

Client ID: _____ Lab ID: 460-153677-D-8-H DU

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Solid Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.17	U	0.17	U	NC		7470A

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-511164/2-A ^5

Lab Name: TestAmerica Edison Job No.: 460-153774-1

Sample Matrix: Water LCS Source: ME_TCLPspk_00038

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	5000	4806		96	80	120		6010C
Barium	10000	10370		104	80	120		6010C
Cadmium	1000	1046		105	80	120		6010C
Chromium	5000	5265		105	80	120		6010C
Lead	5000	5200		104	80	120		6010C
Selenium	1000	968.5		97	80	120		6010C
Silver	500	478.6		96	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-511409/2-A

Lab Name: TestAmerica Edison Job No.: 460-153774-1

Sample Matrix: Water LCS Source: ME_HG_TCLP_02028

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.72		94	80	120		7470A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 460-153622-I-22-C SD ^25

SDG No:

Lab Name: TestAmerica Edison Job No: 460-153774-1

Matrix: Solid Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	21.8	U	109	U	NC		6010C
Barium	349	J	354.8	J	NC		6010C
Cadmium	9.2	U	46.0	U	NC		6010C
Chromium	16.6	U	82.8	U	NC		6010C
Lead	54.4		102	U	NC		6010C
Selenium	22.2	U	111	U	NC		6010C
Silver	9.0	U	45.0	U	NC		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 460-153677-D-8-G SD ^5

SDG No:

Lab Name: TestAmerica Edison Job No: 460-153774-1

Matrix: Solid Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.17	U	0.87	U	NC		7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison Job Number: 460-153774-1

SDG Number:

Matrix: Solid Instrument ID: ICP5

Method: 6010C MDL Date: 08/24/2016 10:40

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Arsenic		15	4.35
Barium		200	8.64
Cadmium		4	1.84
Chromium		10	3.31
Lead		10	4.08
Selenium		20	4.43
Silver		10	1.8

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison Job Number: 460-153774-1

SDG Number:

Matrix: Solid Instrument ID: ICP5

Method: 6010C XMDL Date: 08/24/2016 10:41

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		15	4.35
Barium		200	8.64
Cadmium		4	1.84
Chromium		10	3.31
Lead		10	4.08
Selenium		20	4.43
Silver		10	1.8

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison Job Number: 460-153774-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN6

Method: 7470A MDL Date: 08/24/2016 10:46

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.174

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison Job Number: 460-153774-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN6

Method: 7470A XMDL Date: 08/24/2016 10:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.174

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison Job No: 460-153774-1

SDG No.:

Instrument ID: ICP5 Date: 04/11/2018 12:56

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		10000	6010C
Barium		80000	6010C
Cadmium		5000	6010C
Chromium		40000	6010C
Lead		60000	6010C
Selenium		20000	6010C
Silver		10000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-511164/1-A ^5	04/14/2015 21:30	511164		50	50
LCS 460-511164/2-A ^5	04/14/2015 21:30	511164		50	50
460-153622-I-22-D DU ^5	04/14/2015 21:30	511164		50	50
460-153622-I-22-E MS ^5	04/14/2015 21:30	511164		50	50
460-153774-1	04/14/2015 21:30	511164		50	50
LB 460-511103/1-B ^5	04/14/2015 21:30	511164		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-511409/1-A	04/16/2018 12:16	511409		30	30
LCS 460-511409/2-A	04/16/2018 12:16	511409		30	30
460-153677-D-8-H DU	04/16/2018 12:16	511409		30	30
460-153677-D-8-I MS	04/16/2018 12:16	511409		30	30
460-153774-1	04/16/2018 12:16	511409		30	30
LB 460-511103/1-F	04/16/2018 12:17	511409		30	30

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 04/16/2018 11:14 End Date: 04/16/2018 20:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ICIS 460-511442/1	1		11:14	X	X	X	X	X	X	X													
ZZZZZZ			11:18																				
ZZZZZZ			11:22																				
ZZZZZZ			11:26																				
ZZZZZZ			11:30																				
ZZZZZZ			11:33																				
ICV 460-511442/7	1		11:38	X	X	X	X	X	X	X													
ICB 460-511442/8	1		11:41	X	X	X	X	X	X	X													
ICVL 460-511442/9	1		11:45	X	X	X	X	X	X	X													
ZZZZZZ			11:49																				
ZZZZZZ			11:53																				
ZZZZZZ			11:57																				
ZZZZZZ			12:02																				
CCV 460-511442/14	1		12:13	X	X	X	X	X	X	X													
CCB 460-511442/15	1		12:16	X	X	X	X	X	X	X													
CCVL 460-511442/16	1		12:20	X	X	X	X	X	X	X													
ICSA 460-511442/17	1		12:24	X	X	X	X	X	X	X													
ICSAB 460-511442/18	1		12:28	X	X	X	X	X	X	X													
ZZZZZZ			12:32																				
ZZZZZZ			12:36																				
460-153622-I-22-C PDS ^5	5	P	12:41	X	X	X	X	X	X	X													
460-153622-I-22-E MS ^5	5	P	12:44	X	X	X	X	X	X	X													
460-153622-I-22-D DU ^5	5	P	12:48	X	X	X	X	X	X	X													
ZZZZZZ			12:52																				
460-153622-I-22-C SD ^25	25	P	12:56	X	X	X	X	X	X	X													
LCS 460-511164/2-A ^5	5	T	13:00	X	X	X	X	X	X	X													
CCV 460-511442/27	1		13:04	X	X	X	X	X	X	X													
CCB 460-511442/28	1		13:08	X	X	X	X	X	X	X													
CCVL 460-511442/29	1		13:12	X	X	X	X	X	X	X													
MB 460-511164/1-A ^5	5	T	13:16	X	X	X	X	X	X	X													
ZZZZZZ			13:20																				
ZZZZZZ			13:24																				
ZZZZZZ			13:28																				
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
ZZZZZZ			13:40																				
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
CCV 460-511442/40	1		13:57	X	X	X	X	X	X	X													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 04/16/2018 11:14 End Date: 04/16/2018 20:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
CCB 460-511442/41	1		14:00	X	X	X	X	X	X	X													
CCVL 460-511442/42	1		14:04	X	X	X	X	X	X	X													
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:20																				
ZZZZZZ			14:25																				
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
460-153774-1	5	P	14:37	X	X	X	X	X	X	X													
ZZZZZZ			14:41																				
LB 460-511103/1-B ^5	5	P	14:45	X	X	X	X	X	X	X													
CCV 460-511442/53			15:11																				
CCB 460-511442/54			15:14																				
CCVL 460-511442/55			15:18																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
ZZZZZZ			15:33																				
ZZZZZZ			15:37																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:53																				
ZZZZZZ			15:56																				
CCV 460-511442/66			16:00																				
CCB 460-511442/67			16:04																				
CCVL 460-511442/68			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:16																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:28																				
ZZZZZZ			16:32																				
ZZZZZZ			16:36																				
ZZZZZZ			16:40																				
ZZZZZZ			16:44																				
ZZZZZZ			16:47																				
CCV 460-511442/79			16:52																				
CCB 460-511442/80			16:55																				
CCVL 460-511442/81			16:59																				
CCV 460-511442/82			17:17																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 04/16/2018 11:14 End Date: 04/16/2018 20:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
CCB 460-511442/83			17:21																				
CCVL 460-511442/84			17:25																				
ZZZZZZ			17:29																				
ZZZZZZ			17:33																				
ZZZZZZ			17:37																				
ZZZZZZ			17:41																				
ZZZZZZ			17:45																				
ZZZZZZ			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:00																				
ZZZZZZ			18:04																				
CCV 460-511442/95			18:08																				
CCB 460-511442/96			18:12																				
CCVL 460-511442/97			18:16																				
ZZZZZZ			18:20																				
ZZZZZZ			18:24																				
ZZZZZZ			18:28																				
ZZZZZZ			18:32																				
ZZZZZZ			18:36																				
ZZZZZZ			18:39																				
ZZZZZZ			18:43																				
ZZZZZZ			18:47																				
ZZZZZZ			18:51																				
ZZZZZZ			18:55																				
CCV 460-511442/108			18:59																				
CCB 460-511442/109			19:03																				
CCVL 460-511442/110			19:07																				
ZZZZZZ			19:11																				
ZZZZZZ			19:15																				
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:26																				
ZZZZZZ			19:29																				
ZZZZZZ			19:33																				
ZZZZZZ			19:37																				
ZZZZZZ			19:41																				
ZZZZZZ			19:44																				
CCV 460-511442/121			19:48																				
CCB 460-511442/122			19:52																				
CCVL 460-511442/123			19:56																				
ZZZZZZ			20:00																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 04/16/2018 11:14 End Date: 04/16/2018 20:32

Lab Sample ID	D / F	Type	Time	Analytes																		
				Ag	As	Ba	Cd	Cr	Pb	Se												
ZZZZZZ			20:04																			
ZZZZZZ			20:07																			
ZZZZZZ			20:11																			
ZZZZZZ			20:15																			
ZZZZZZ			20:20																			
CCV 460-511442/130			20:24																			
CCB 460-511442/131			20:28																			
CCVL 460-511442/132			20:32																			

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 04/16/2018 12:54 End Date: 04/16/2018 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			12:54																				
ZZZZZZ			12:56																				
ZZZZZZ			12:57																				
ZZZZZZ			12:59																				
ZZZZZZ			13:00																				
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
ICIS 460-511457/8			13:17	X																			
IC 460-511405/26-A			13:19	X																			
IC 460-511405/27-A			13:21	X																			
IC 460-511405/28-A			13:22	X																			
IC 460-511405/29-A			13:24	X																			
IC 460-511405/30-A			13:26	X																			
ICV 460-511405/31-A	1		13:28	X																			
ICB 460-511457/15	1		13:30	X																			
CRI 460-511457/16	1		13:31	X																			
ZZZZZZ			13:33																				
ZZZZZZ			13:35																				
CCV 460-511405/33-A			13:37																				
CCB 460-511457/20			13:38																				
ZZZZZZ			13:40																				
ZZZZZZ			13:42																				
ZZZZZZ			13:44																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:51																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
CCV 460-511405/33-A			13:57																				
CCB 460-511457/32			13:59																				
ZZZZZZ			14:01																				
ZZZZZZ			14:03																				
ZZZZZZ			14:05																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:11																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:17																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 04/16/2018 12:54 End Date: 04/16/2018 16:42

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 460-511405/33-A	1		14:18	X																			
CCB 460-511457/44	1		14:20	X																			
ZZZZZZ			14:22																				
ZZZZZZ			14:23																				
ZZZZZZ			14:25																				
ZZZZZZ			14:27																				
ZZZZZZ			14:29																				
MB 460-511409/1-A	1	T	14:30	X																			
LCS 460-511409/2-A	1	T	14:32	X																			
ZZZZZZ			14:34																				
460-153677-D-8-H DU	1	P	14:36	X																			
460-153677-D-8-I MS	1	P	14:37	X																			
CCV 460-511405/33-A	1		14:39	X																			
CCB 460-511457/56	1		14:41	X																			
460-153677-D-8-G SD ^5	5	P	14:43	X																			
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
CCV 460-511405/33-A	1		15:00	X																			
CCB 460-511457/68	1		15:01	X																			
ZZZZZZ			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
460-153774-1	1	P	15:08	X																			
ZZZZZZ			15:10																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
ZZZZZZ			15:15																				
ZZZZZZ			15:17																				
ZZZZZZ			15:19																				
CCV 460-511405/33-A	1		15:20	X																			
CCB 460-511457/80	1		15:22	X																			
LB 460-511103/1-F	1	P	15:24	X																			
ZZZZZZ			15:26																				
ZZZZZZ			15:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 04/16/2018 12:54 End Date: 04/16/2018 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:29																				
ZZZZZZ			15:31																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:39																				
CCV 460-511405/33-A	1		15:41	X																			
CCB 460-511457/92	1		15:43	X																			
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
CCV 460-511405/33-A			16:02																				
CCB 460-511457/104			16:04																				
ZZZZZZ			16:05																				
ZZZZZZ			16:07																				
ZZZZZZ			16:09																				
ZZZZZZ			16:11																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:16																				
ZZZZZZ			16:17																				
ZZZZZZ			16:19																				
ZZZZZZ			16:21																				
CCV 460-511405/33-A			16:23																				
CCB 460-511457/116			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:31																				
ZZZZZZ			16:33																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
CCV 460-511405/33-A			16:40																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Instrument ID: LEEMAN6 Method: 7470A

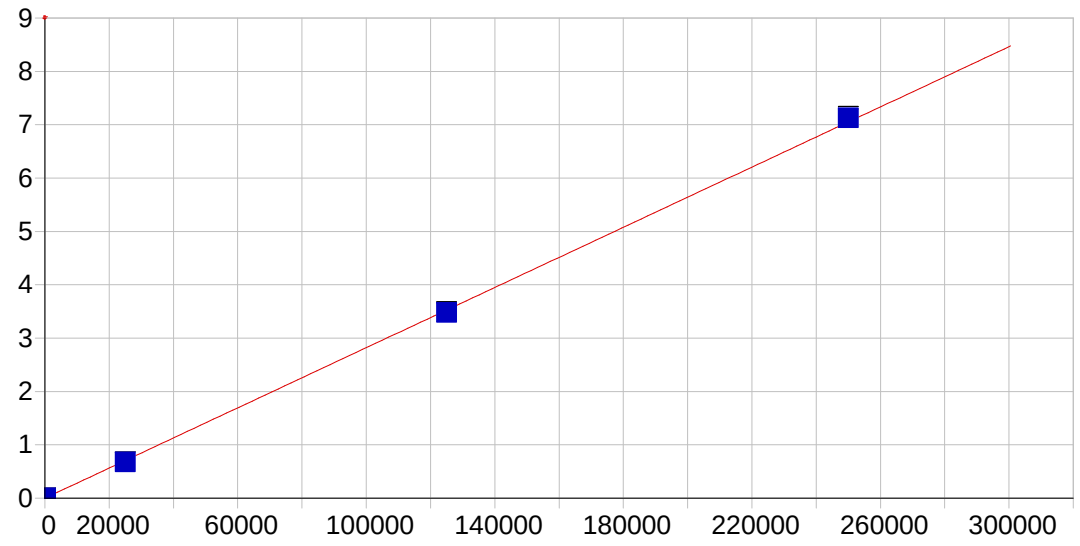
Start Date: 04/16/2018 12:54 End Date: 04/16/2018 16:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 460-511457/126			16:42																				

Prep Types

P = TCLP

T = Total/NA

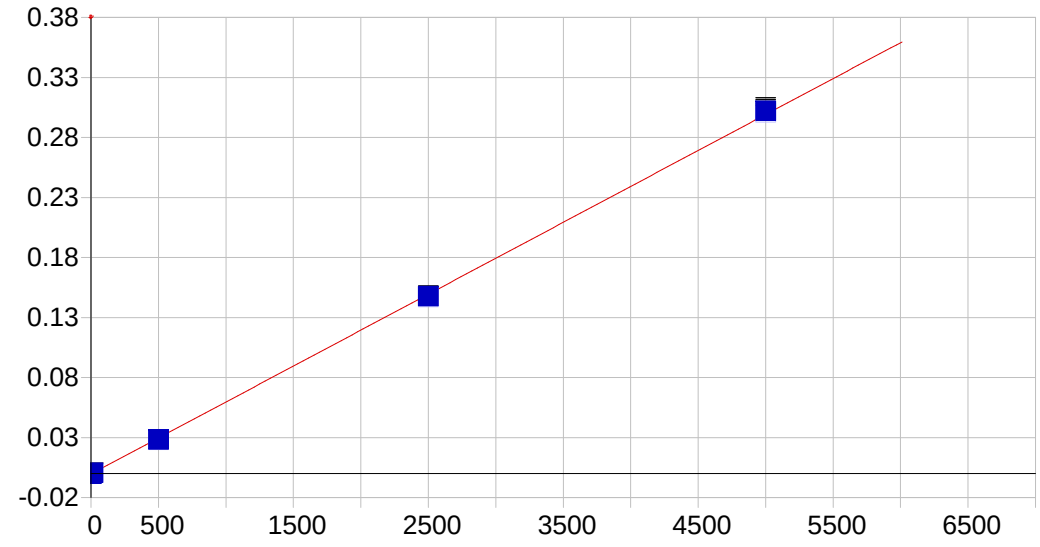


Al 396.152 { 85}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000467	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.000158		
Predicted MDL:	11.985726		
Predicted MQL:	39.952421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.01687	.017	.000	.00047	.000	1
CAL2	200.00	191.78	-8.22	-4.11	.00589	.000	1
CAL3	25000.	23988.	-1010.	-4.05	.67757	.001	1
CAL4	125000.	123300.	-1700.	-1.36	3.4807	.014	1
CAL5	250000.	252720.	2720.	1.09	7.1338	.024	1

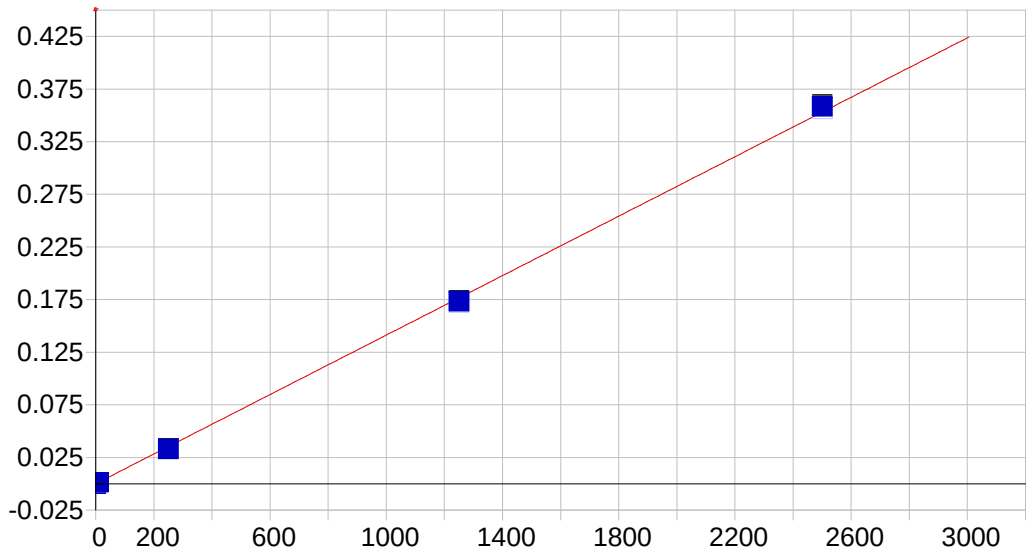


As 189.042 {478}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000311	Re-Slope:	1.000000
A1 (Gain):	0.000060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999863	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	1.311030		
Predicted MQL:	4.370099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00075	.001	.000	-.00031	.000	1
CAL2	15.000	14.399	-.601	-4.00	.00055	.000	1
CAL3	500.00	475.32	-24.7	-4.94	.02801	.000	1
CAL4	2500.0	2471.5	-28.5	-1.14	.14697	.000	1
CAL5	5000.0	5054.1	54.1	1.08	.30091	.002	1
CAL1	5.0000	4.7006	-.299	-5.99	-.00003	.000	1

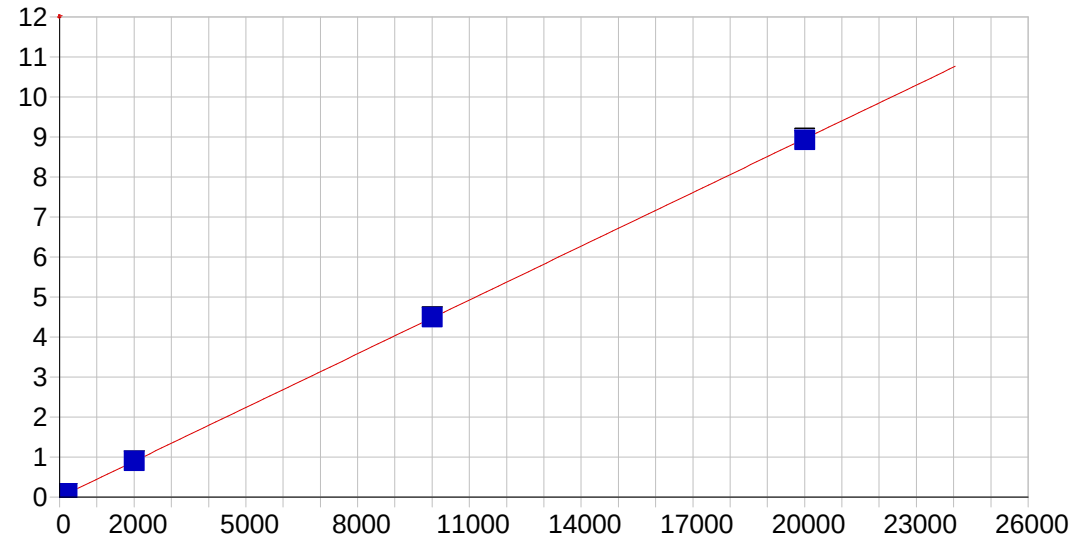


Ag 328.068 {103}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000141	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999732	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.460101		
Predicted MQL:	1.533670		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00104	.001	.000	.00004	.000	1
CAL2	10.000	9.6433	-.357	-3.57	.00138	.000	1
CAL3	250.00	233.56	-16.4	-6.58	.03276	.000	1
CAL4	1250.0	1227.5	-22.5	-1.80	.17205	.000	1
CAL5	2500.0	2539.3	39.3	1.57	.35596	.001	1

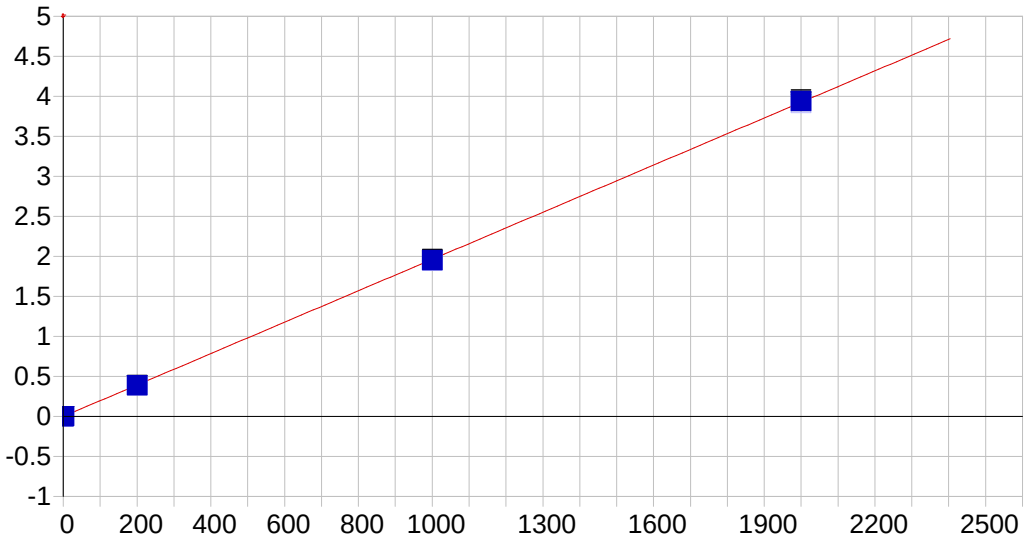


Ba 233.527 {445}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000142	Re-Slope:	1.000000
A1 (Gain):	0.000448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000225		
Predicted MDL:	0.173651		
Predicted MQL:	0.578838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00814	-.008	.000	.00014	.000	1
CAL2	200.00	206.56	6.56	3.28	.09261	.000	1
CAL3	2000.0	2012.9	12.9	.643	.90123	.001	1
CAL4	10000.	10048.	48.3	.483	4.4984	.010	1
CAL5	20000.	19932.	-67.7	-.338	8.9231	.045	1



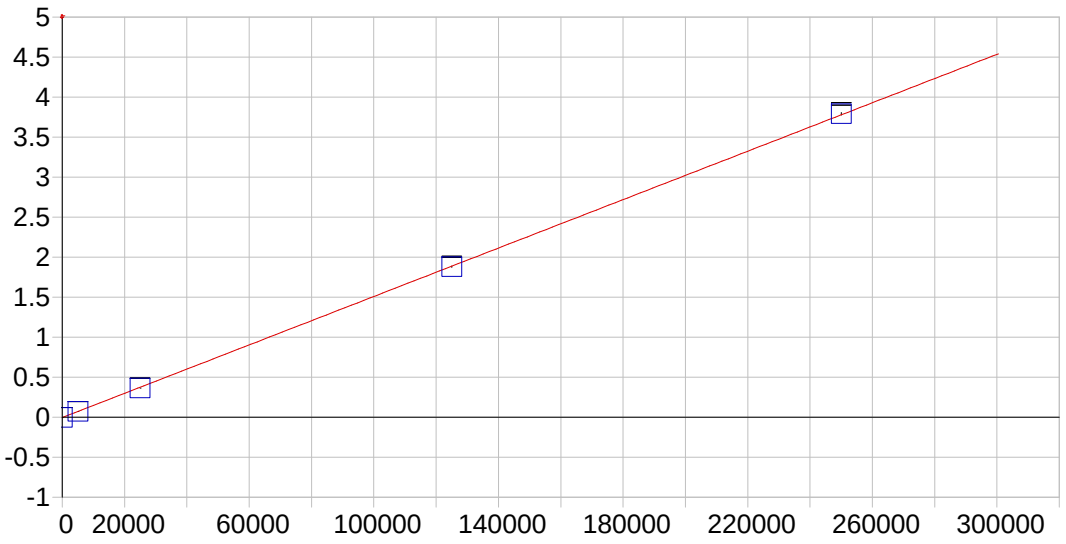
Be 313.042 {108}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000074	Re-Slope:	1.000000

A1 (Gain):	0.001963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.120159		
Predicted MQL:	0.400529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00001	.000	.000	.00007	.000	1
CAL2	2.0000	2.0121	.012	.605	.00399	.000	1
CAL3	200.00	198.01	-1.99	-.994	.38650	.000	1
CAL4	1000.0	995.13	-4.87	-.487	1.9421	.010	1
CAL5	2000.0	2006.8	6.84	.342	3.9168	.016	1

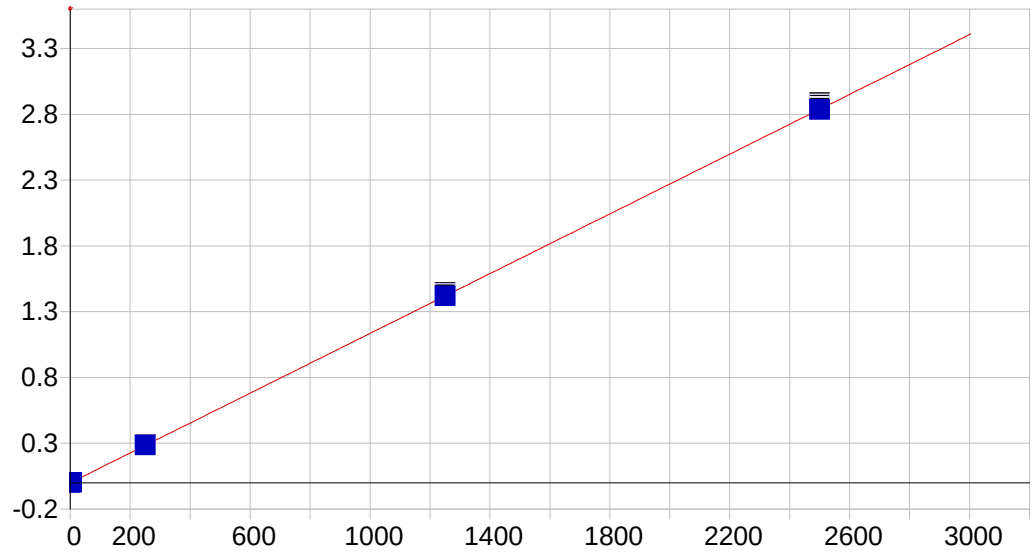


Ca 318.128 {106}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003901	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000195		
Predicted MDL:	5.455030		
Predicted MQL:	18.183435		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.12759	.128	.000	-.00390	.000	1
CAL2	5000.0	4989.7	-10.3	-.206	.07158	.000	1
CAL3	25000.	24389.	-611.	-2.45	.36505	.001	1
CAL4	125000.	124630.	-372.	-.297	1.8814	.008	1
CAL5	250000.	250990.	993.	.397	3.7931	.016	1

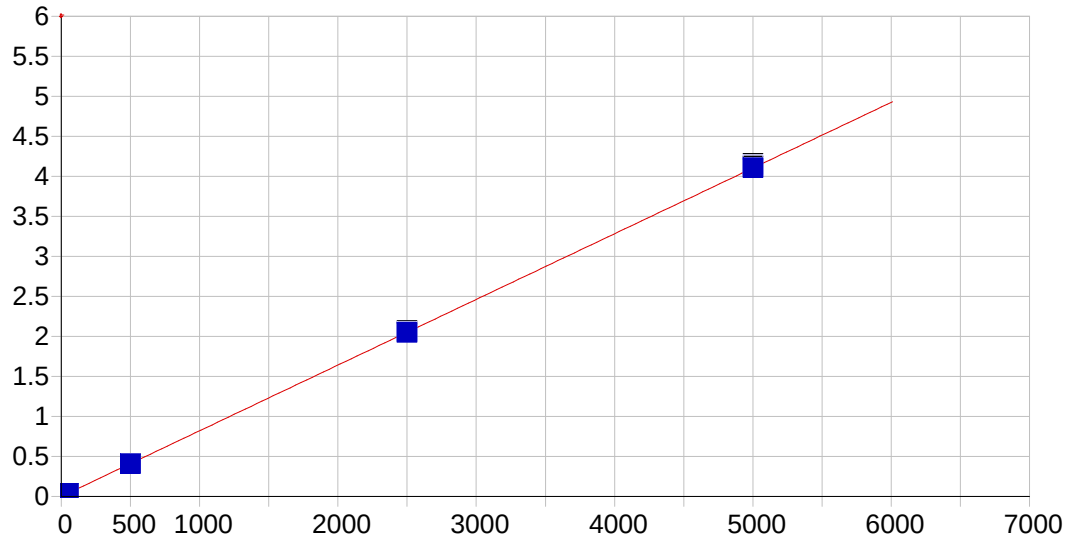


Cd 226.502 {449}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000140	Re-Slope:	1.000000
A1 (Gain):	0.001135	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.103339		
Predicted MQL:	0.344462		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00016	-.000	.000	-.00014	.000	1
CAL2	4.0000	4.1373	.137	3.43	.00459	.000	1
CAL3	250.00	251.66	1.66	.662	.28972	.001	1
CAL4	1250.0	1250.6	.642	.051	1.4405	.004	1
CAL5	2500.0	2497.6	-2.43	-.097	2.8769	.010	1



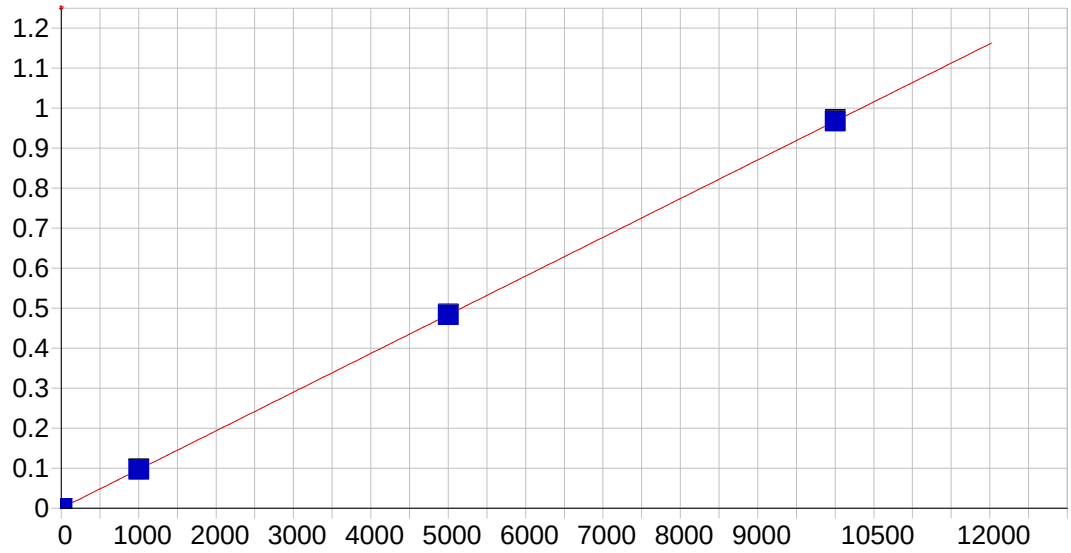
Co 228.616 {447}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000122	Re-Slope:	1.000000

A1 (Gain):	0.000821	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.177564		
Predicted MQL:	0.591879		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00079	-.001	.000	.00012	.000	1
CAL2	50.000	51.036	1.04	2.07	.04203	.000	1
CAL3	500.00	498.09	-1.91	-.382	.41217	.000	1
CAL4	2500.0	2493.2	-6.76	-.271	2.0627	.008	1
CAL5	5000.0	5007.6	7.65	.153	4.1426	.018	1

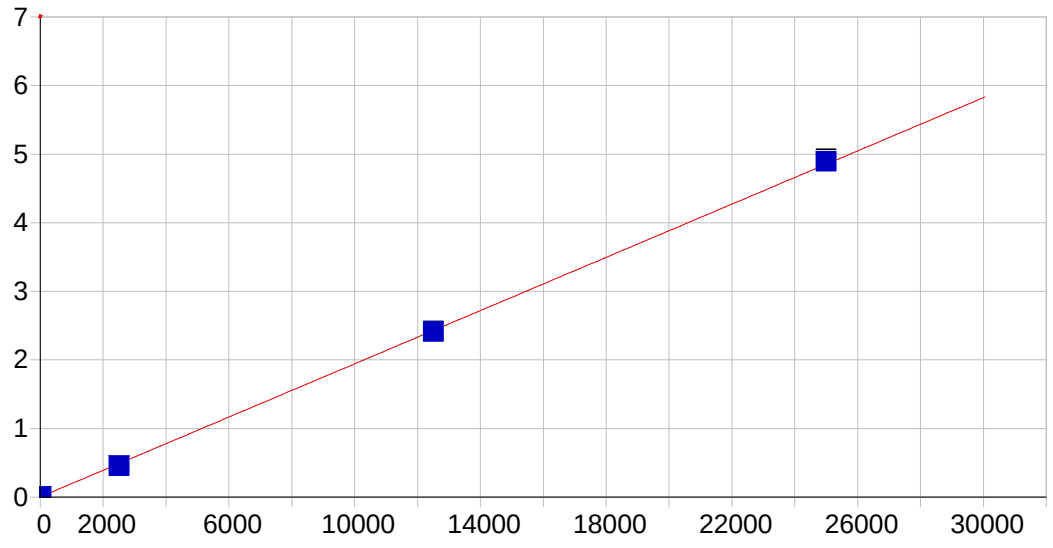


Cr 267.716 {126}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.417787		
Predicted MQL:	1.392625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00002	.000	.000	.00003	.000	1
CAL2	10.000	9.9596	-.040	-.404	.00100	.000	1
CAL3	1000.0	1002.7	2.71	.271	.09707	.000	1
CAL4	5000.0	4996.3	-3.73	-.075	.48354	.001	1
CAL5	10000.	10001.	1.05	.011	.96787	.003	1

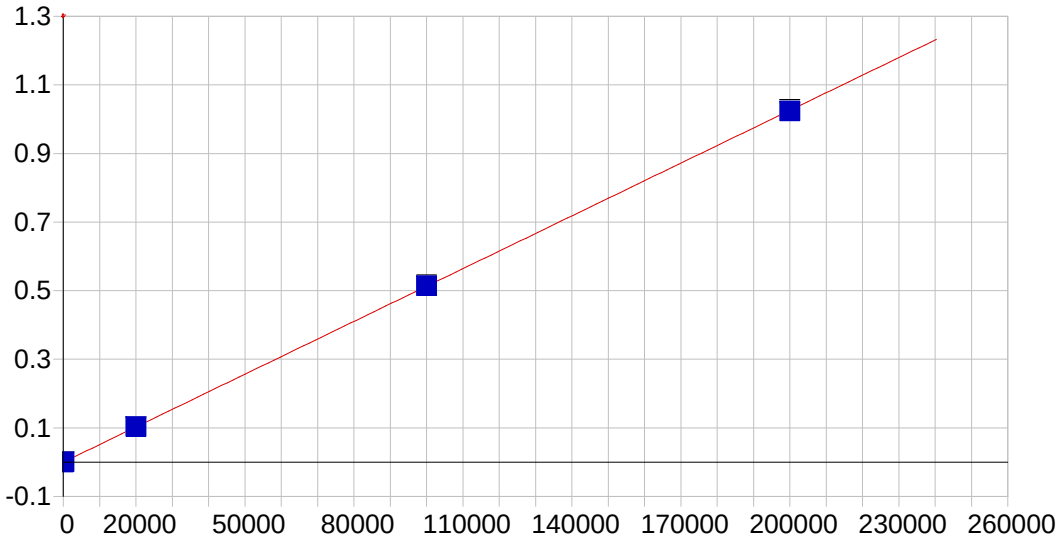


Cu 324.754 {104}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002712	Re-Slope:	1.000000
A1 (Gain):	0.000194	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000133		
Predicted MDL:	0.337457		
Predicted MQL:	1.124857		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00332	.003	.000	.00271	.000	1
CAL2	25.000	23.088	-1.91	-7.65	.00718	.000	1
CAL3	2500.0	2351.5	-149.	-5.94	.45866	.000	1
CAL4	12500.	12431.	-69.4	-.555	2.4131	.005	1
CAL5	25000.	25220.	220.	.879	4.8930	.032	1



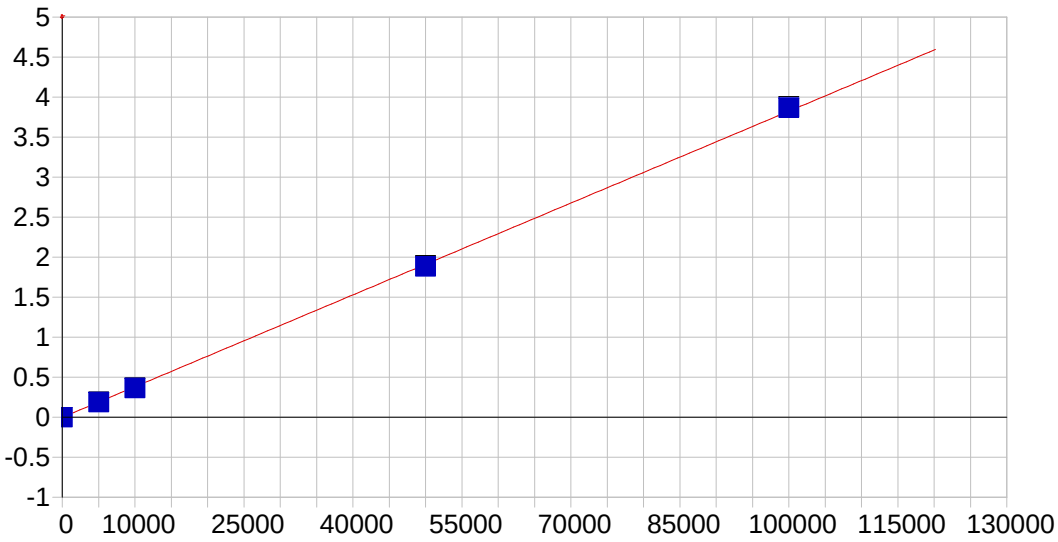
Fe 271.441 {124}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000

A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	8.312992		
Predicted MQL:	27.709972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00486	.005	.000	.00002	.000	1
CAL2	150.00	144.18	-5.82	-3.88	.00075	.000	1
CAL3	20000.	20112.	112.	.562	.10312	.000	1
CAL4	100000.	100260.	262.	.262	.51400	.002	1
CAL5	200000.	199630.	-369.	-.184	1.0234	.005	1

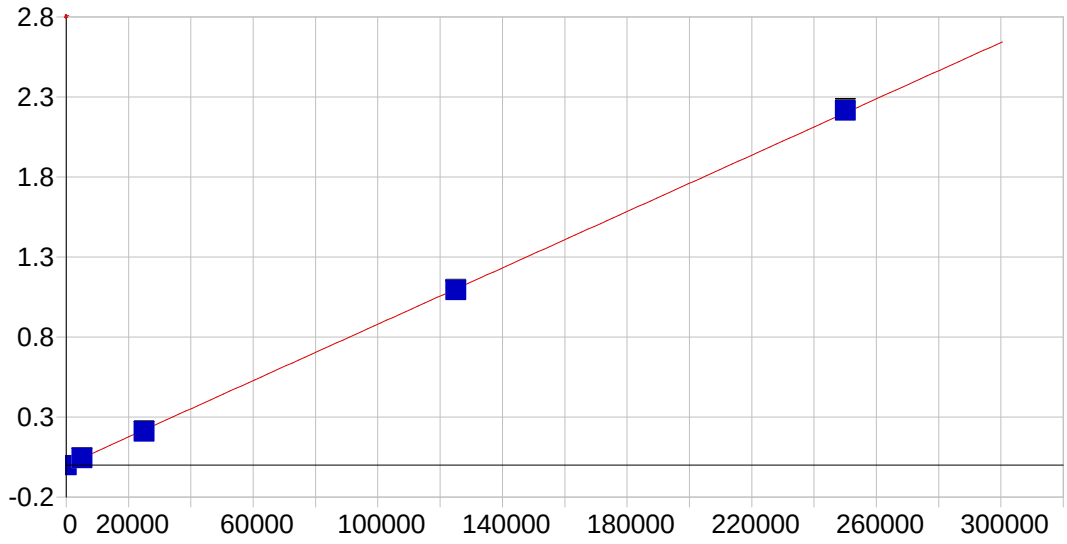


K 766.490 { 44}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001991	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	0.000735		
Predicted MDL:	29.571093		
Predicted MQL:	98.570310		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.29917	.299	.000	-.00198	.001	1
CAL2	5000.0	4928.8	-71.2	-1.42	.18656	.001	1
CAL3	10000.	9562.9	-437.	-4.37	.36397	.001	1
CAL4	50000.	49302.	-698.	-1.40	1.8847	.008	1
CAL5	100000.	101210.	1210.	1.21	3.8710	.011	1

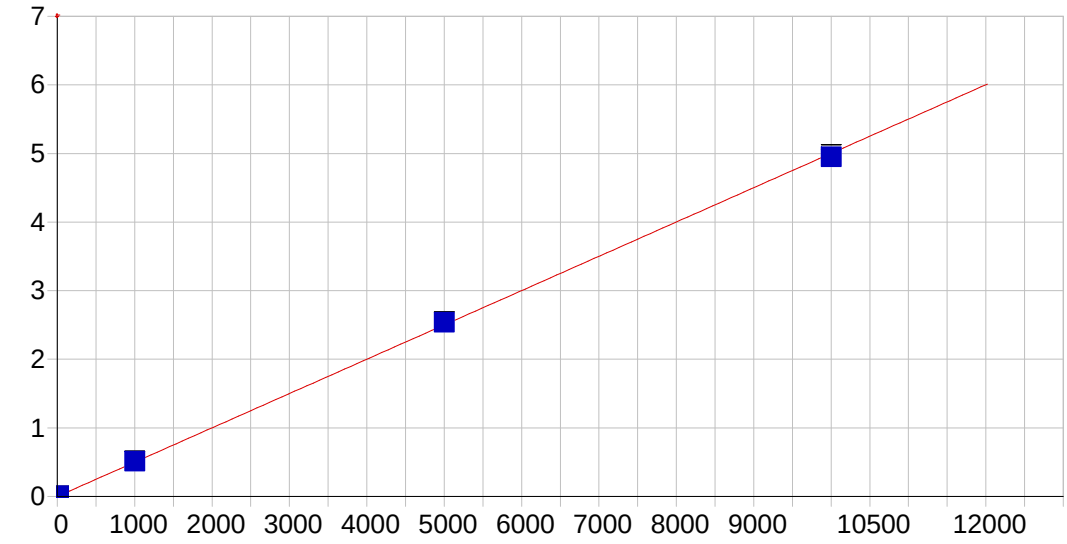


Mg 279.079 {121}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000202		
Predicted MDL:	4.605647		
Predicted MQL:	15.352155		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.26901	.269	.000	-.00001	.000	1
CAL2	5000.0	4934.4	-65.6	-1.31	.04341	.000	1
CAL3	25000.	23940.	-1060.	-4.24	.21053	.001	1
CAL4	125000.	124300.	-696.	-.557	1.0932	.005	1
CAL5	250000.	251820.	1820.	.729	2.2147	.011	1



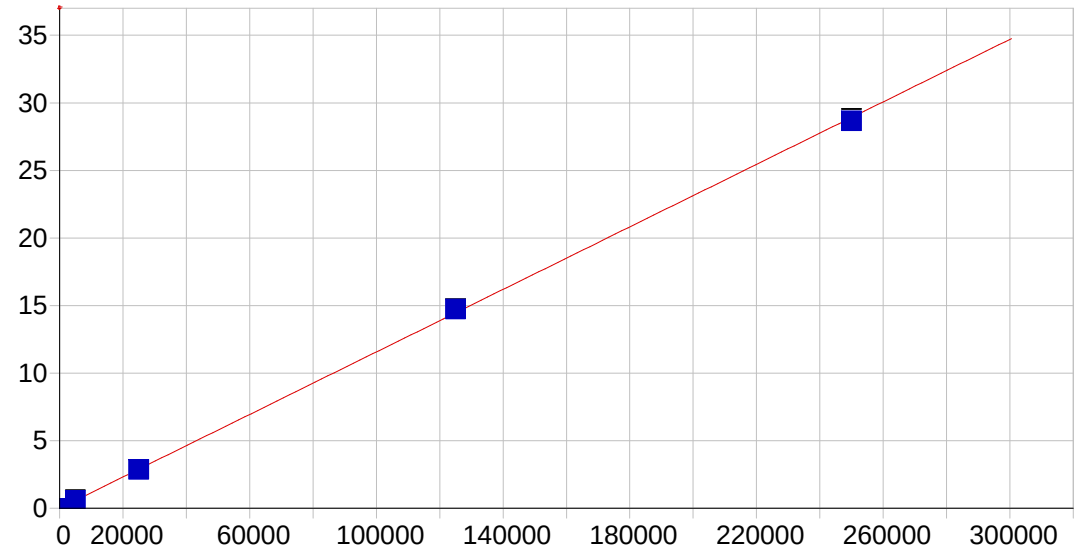
Mn 257.610 {131}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000

A1 (Gain):	0.000500	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.068327		
Predicted MQL:	0.227758		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00124	-.001	.000	.00013	.000	1
CAL2	15.000	15.798	.798	5.32	.00804	.000	1
CAL3	1000.0	1024.2	24.2	2.42	.51232	.001	1
CAL4	5000.0	5079.0	79.0	1.58	2.5401	.007	1
CAL5	10000.	9896.0	-104.	-1.04	4.9490	.035	1

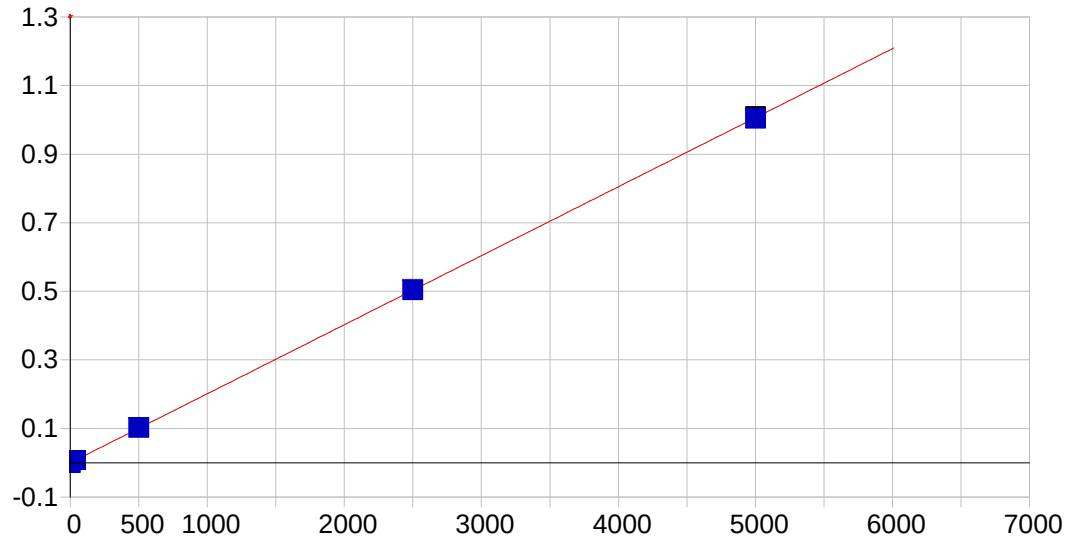


Na 589.592 { 57}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001033	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.002701		
Predicted MDL:	9.654302		
Predicted MQL:	32.181008		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.07879	-.079	.000	.00102	.000	1
CAL2	5000.0	5072.5	72.5	1.45	.58775	.002	1
CAL3	25000.	24784.	-216.	-.863	2.8687	.009	1
CAL4	125000.	127330.	2330.	1.86	14.734	.034	1
CAL5	250000.	247810.	-2190.	-.875	28.674	.150	1

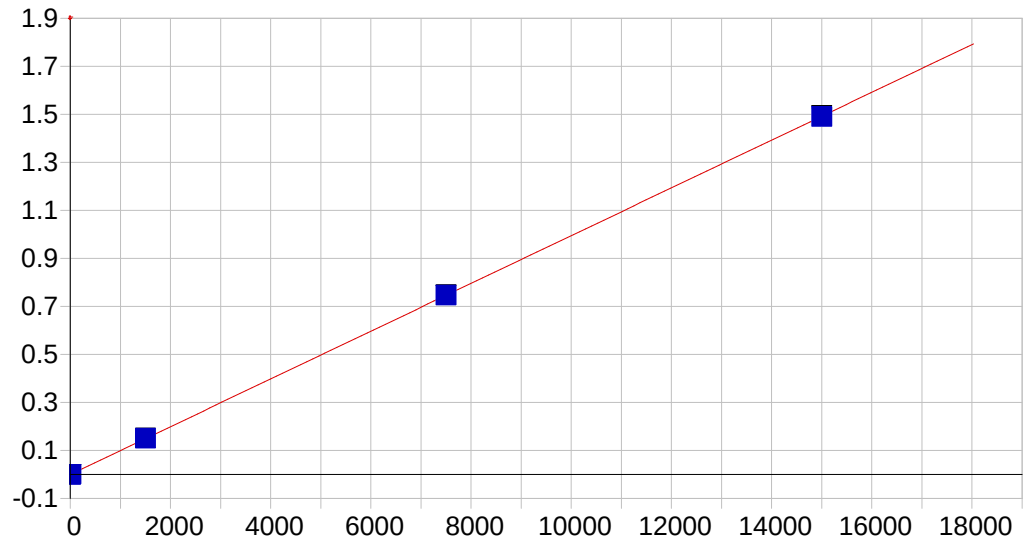


Ni 231.604 {446}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000036	Re-Slope:	1.000000
A1 (Gain):	0.000201	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.481346		
Predicted MQL:	1.604485		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00221	-.002	.000	.00004	.000	1
CAL2	40.000	41.689	1.69	4.22	.00843	.000	1
CAL3	500.00	507.06	7.06	1.41	.10216	.000	1
CAL4	2500.0	2503.7	3.72	.149	.50430	.001	1
CAL5	5000.0	4987.5	-12.5	-.249	1.0046	.004	1



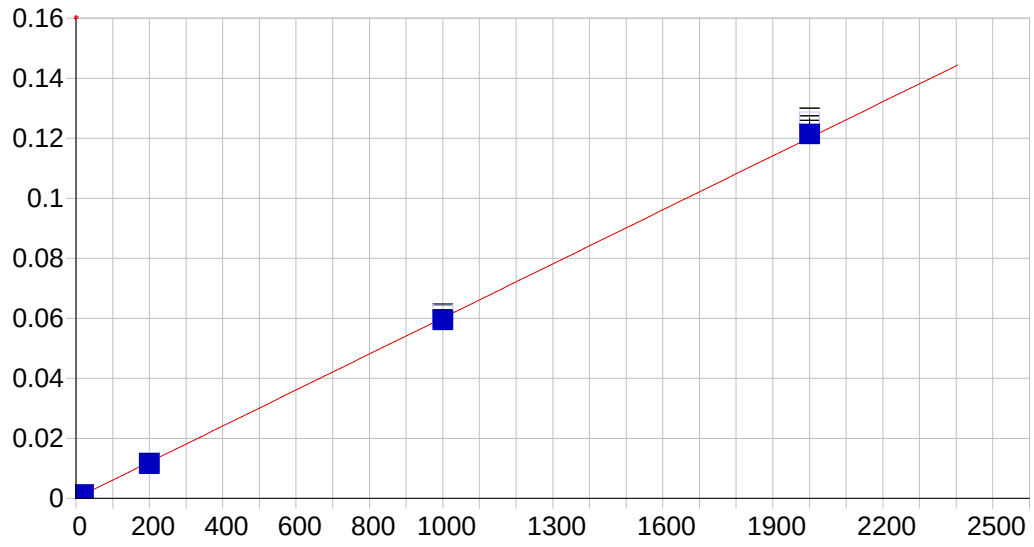
Pb 220.353 {453}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000

A1 (Gain):	0.000099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	1.193393		
Predicted MQL:	3.977975		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00186	-.002	.000	-.00017	.000	1
CAL2	10.000	10.905	.905	9.05	.00091	.000	1
CAL3	1500.0	1510.8	10.8	.722	.15011	.000	1
CAL4	7500.0	7507.8	7.79	.104	.74664	.002	1
CAL5	15000.	14979.	-20.9	-.139	1.4898	.005	1
CAL1	5.0000	6.3767	1.38	27.5	.00046	.000	1

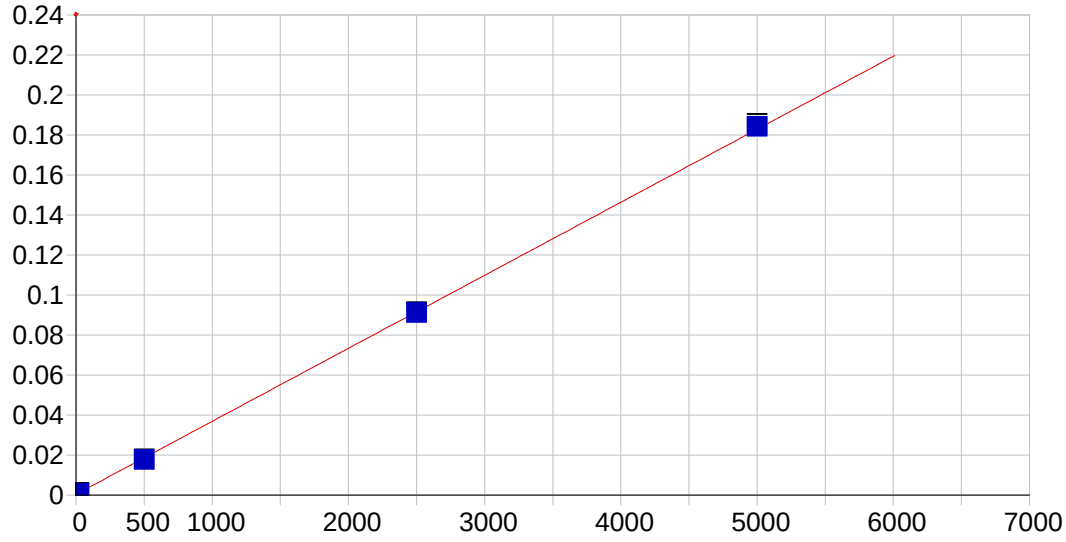


Sb 206.833 {463}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	0.000060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	1.601466		
Predicted MQL:	5.338219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00023	-.000	.000	.00008	.000	1
CAL2	20.000	18.675	-1.32	-6.62	.00117	.000	1
CAL3	200.00	190.46	-9.54	-4.77	.01192	.000	1
CAL4	1000.0	987.93	-12.1	-1.21	.06141	.000	1
CAL5	2000.0	2021.5	21.5	1.08	.12548	.001	1
CAL1	10.000	11.386	1.39	13.9	.00076	.000	1

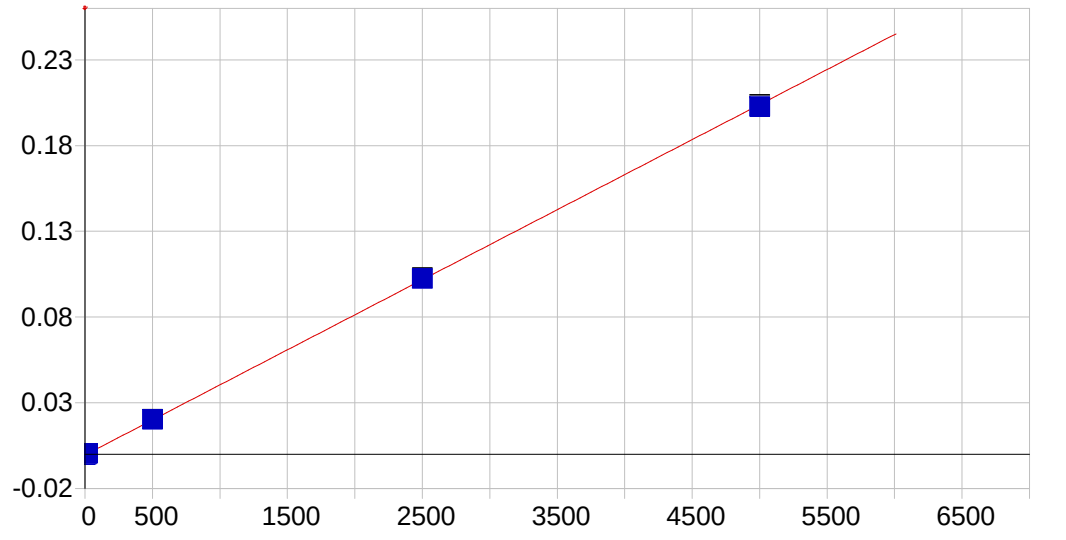


Se 196.090 {472}

Date of Fit:	4/16/2018 11:38:01	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000399	Re-Slope:	1.000000
A1 (Gain):	0.000036	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999869	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	2.092356		
Predicted MQL:	6.974521		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00200	.002	.000	.00040	.000	1
CAL2	20.000	17.068	-2.93	-14.7	.00102	.000	1
CAL3	500.00	476.86	-23.1	-4.63	.01777	.000	1
CAL4	2500.0	2487.3	-12.7	-.507	.09101	.000	1
CAL5	5000.0	5039.8	39.8	.796	.18399	.001	1
CAL1	5.0000	3.9525	-1.05	-20.9	.00054	.000	1

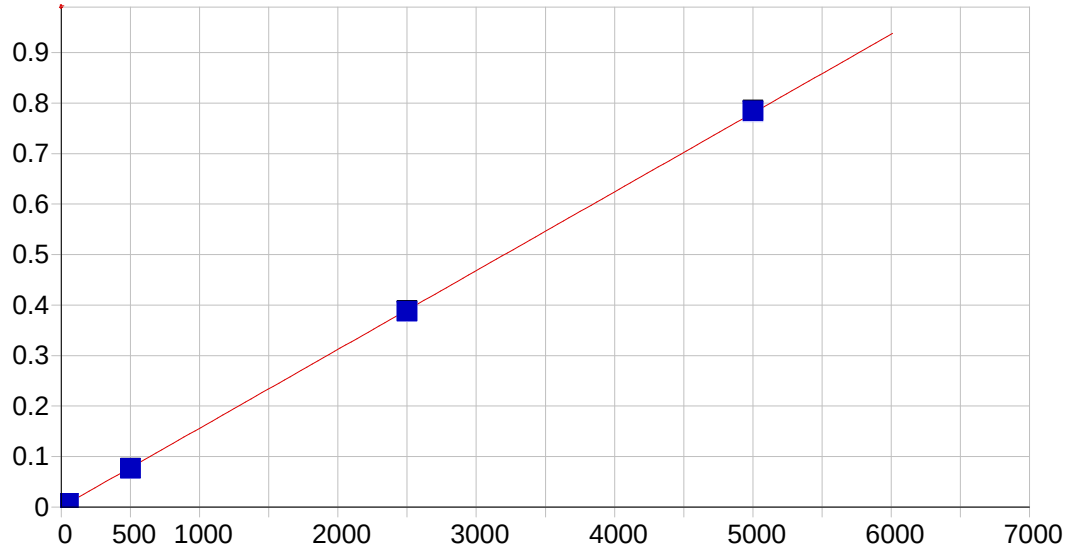


Tl 190.856 {477}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000426	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	1.909941		
Predicted MQL:	6.366469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00193	-.002	.000	-.00043	.000	1
CAL2	20.000	22.349	2.35	11.7	.00049	.000	1
CAL3	500.00	507.27	7.27	1.45	.02032	.000	1
CAL4	2500.0	2516.9	16.9	.676	.10253	.000	1
CAL5	5000.0	4972.9	-27.1	-.542	.20301	.001	1
CAL1	10.000	10.599	.599	5.99	.00001	.000	1

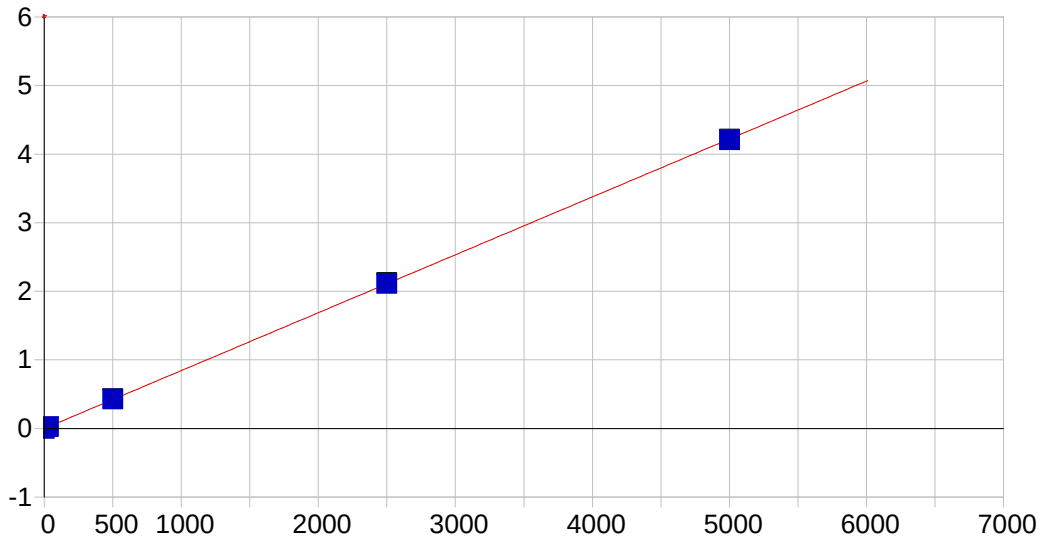


V 292.402 {115}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000115	Re-Slope:	1.000000
A1 (Gain):	0.000156	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.351151		
Predicted MQL:	1.170504		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00110	.001	.000	.00012	.000	1
CAL2	50.000	49.978	-.022	-.043	.00791	.000	1
CAL3	500.00	489.88	-10.1	-2.02	.07634	.000	1
CAL4	2500.0	2483.6	-16.4	-.658	.38657	.001	1
CAL5	5000.0	5026.6	26.6	.532	.78231	.002	1

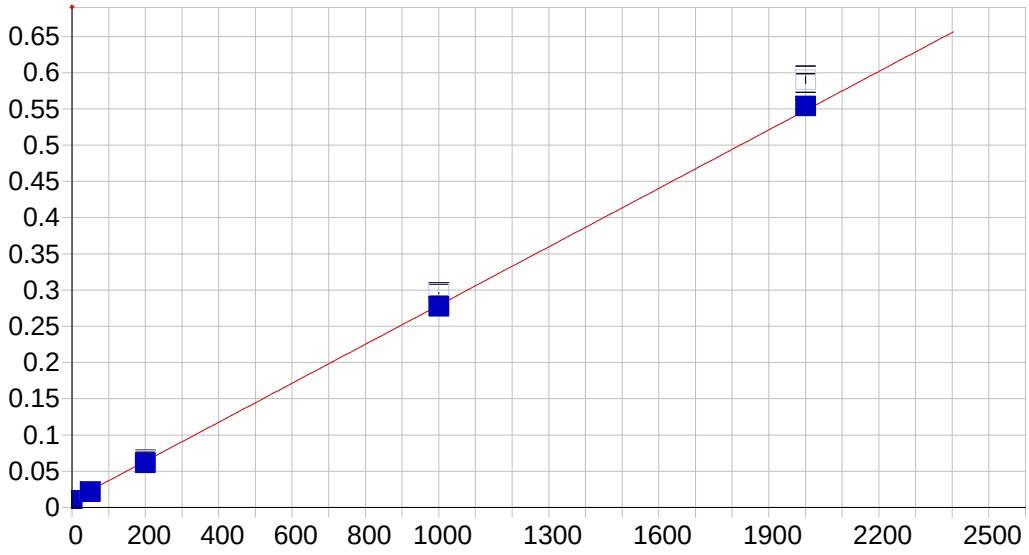


Zn 206.200 {463}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.122622		
Predicted MQL:	0.408740		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00261	-.003	.000	-.00001	.000	1
CAL2	30.000	32.078	2.08	6.93	.02706	.000	1
CAL3	500.00	509.63	9.63	1.93	.42970	.000	1
CAL4	2500.0	2504.2	4.17	.167	2.1114	.010	1
CAL5	5000.0	4984.1	-15.9	-.318	4.2024	.009	1



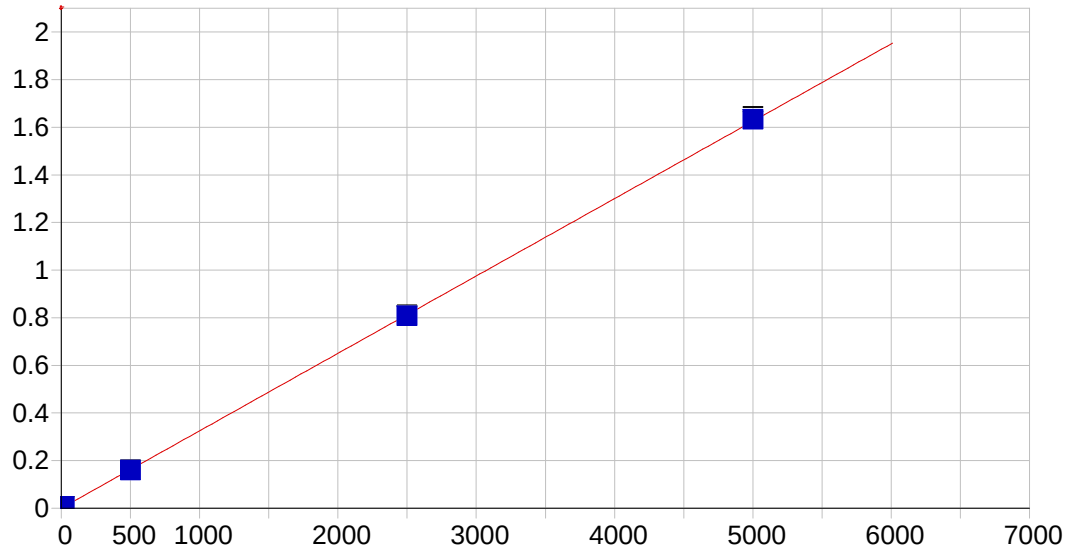
B 208.959 {461}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010036	Re-Slope:	1.000000

A1 (Gain):	0.000269	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999768	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	0.415861		
Predicted MQL:	1.386203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00908	.009	.000	.01004	.000	1
CAL2	50.000	43.063	-6.94	-13.9	.02182	.000	1
CAL3	200.00	190.46	-9.54	-4.77	.06490	.000	1
CAL4	1000.0	993.57	-6.43	-.643	.29543	.001	1
CAL5	2000.0	2022.6	22.6	1.13	.59036	.005	1

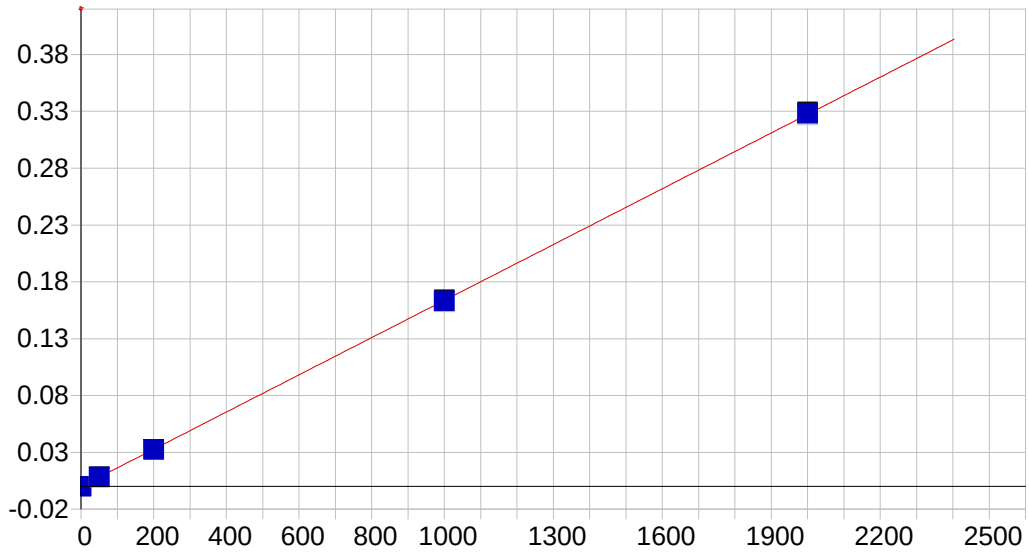


Mo 202.030 {467}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000254	Re-Slope:	1.000000
A1 (Gain):	0.000325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.255525		
Predicted MQL:	0.851750		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00094	.001	.000	.00025	.000	1
CAL2	20.000	19.497	-.503	-2.52	.00659	.000	1
CAL3	500.00	489.43	-10.6	-2.11	.15936	.000	1
CAL4	2500.0	2485.8	-14.2	-.569	.80836	.003	1
CAL5	5000.0	5025.3	25.3	.506	1.6339	.010	1

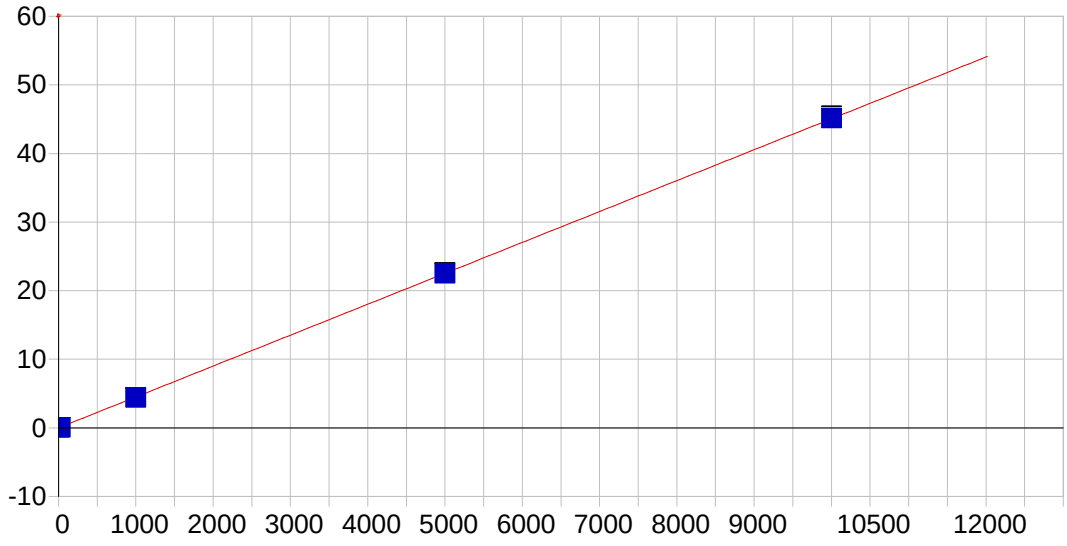


Sn 189.989 {477}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000110	Re-Slope:	1.000000
A1 (Gain):	0.000164	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.480319		
Predicted MQL:	1.601063		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00040	.000	.000	-.00011	.000	1
CAL2	50.000	50.109	.109	.218	.00809	.000	1
CAL3	200.00	198.11	-1.89	-.943	.03219	.000	1
CAL4	1000.0	996.70	-3.30	-.330	.16238	.001	1
CAL5	2000.0	2005.1	5.07	.254	.32679	.001	1



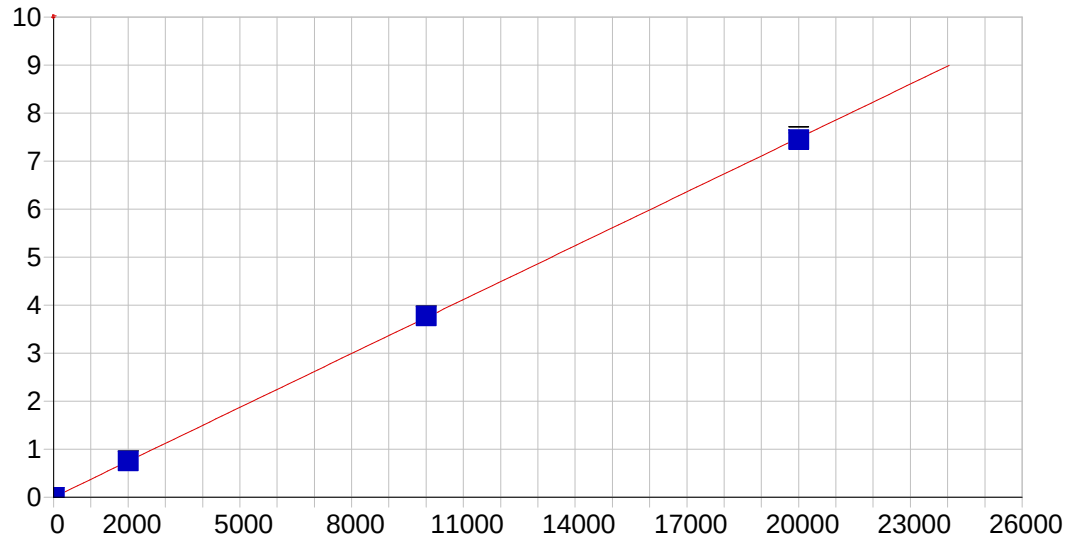
Sr 407.771 { 83}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003294	Re-Slope:	1.000000

A1 (Gain):	0.004506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000575		
Predicted MDL:	0.102390		
Predicted MQL:	0.341299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00059	.001	.000	-.00329	.000	1
CAL2	20.000	19.791	-.209	-1.04	.08601	.000	1
CAL3	1000.0	978.82	-21.2	-2.12	4.4093	.016	1
CAL4	5000.0	5001.9	1.94	.039	22.545	.080	1
CAL5	10000.	10019.	19.4	.194	45.164	.291	1

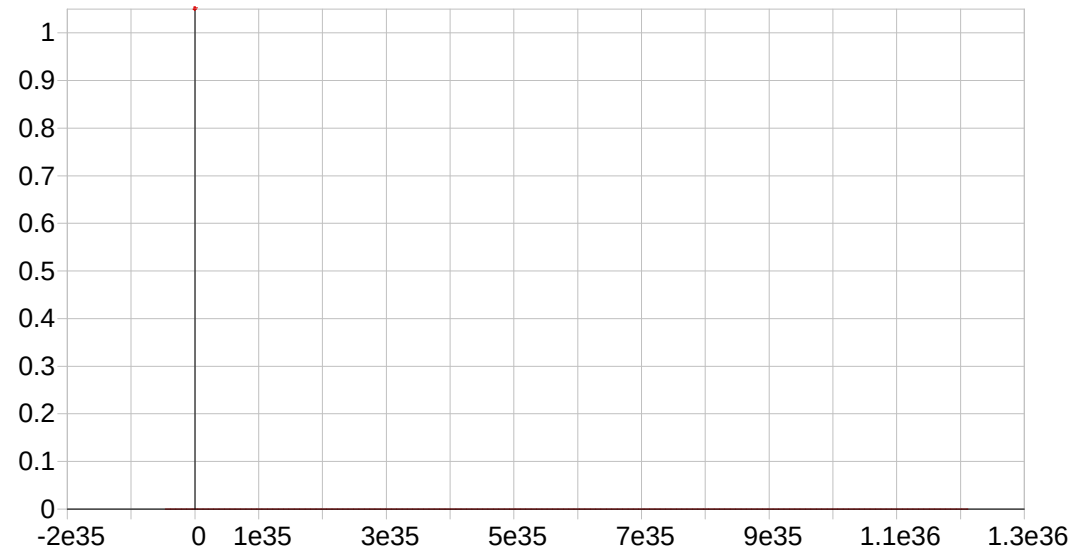


Ti 334.941 {101}

Date of Fit:	4/16/2018 11:38:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000465	Re-Slope:	1.000000
A1 (Gain):	0.000374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.152103		
Predicted MQL:	0.507011		

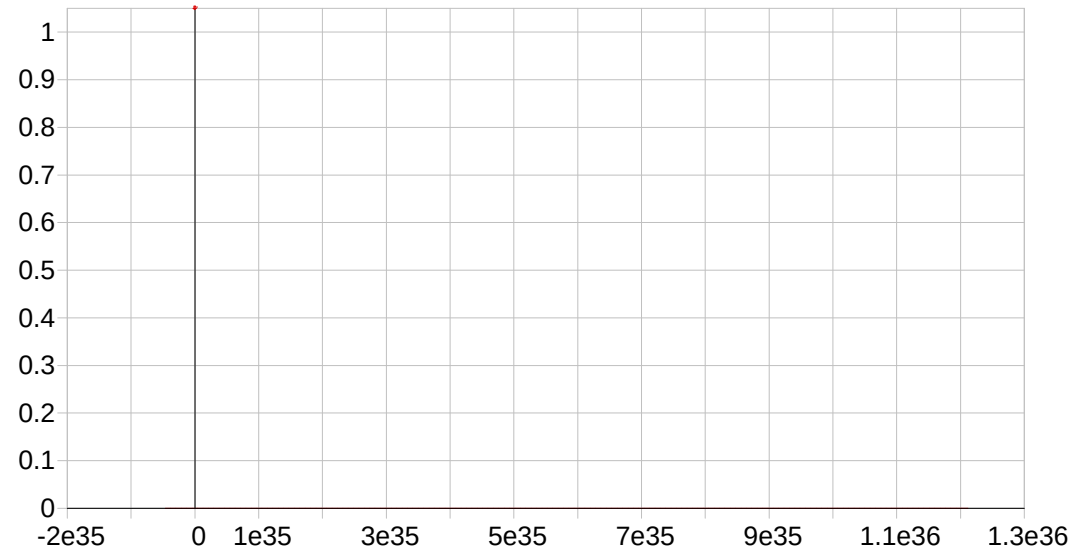
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00087	-.001	.000	.00046	.000	1
CAL2	20.000	20.602	.602	3.01	.00818	.000	1
CAL3	2000.0	2020.7	20.7	1.03	.75664	.001	1
CAL4	10000.	10079.	79.4	.794	3.7724	.008	1
CAL5	20000.	19899.	-101.	-.503	7.4473	.063	1



Y 224.306 {450}*

Date of Fit:	4/16/2018 11:03:22	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	183.492520				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

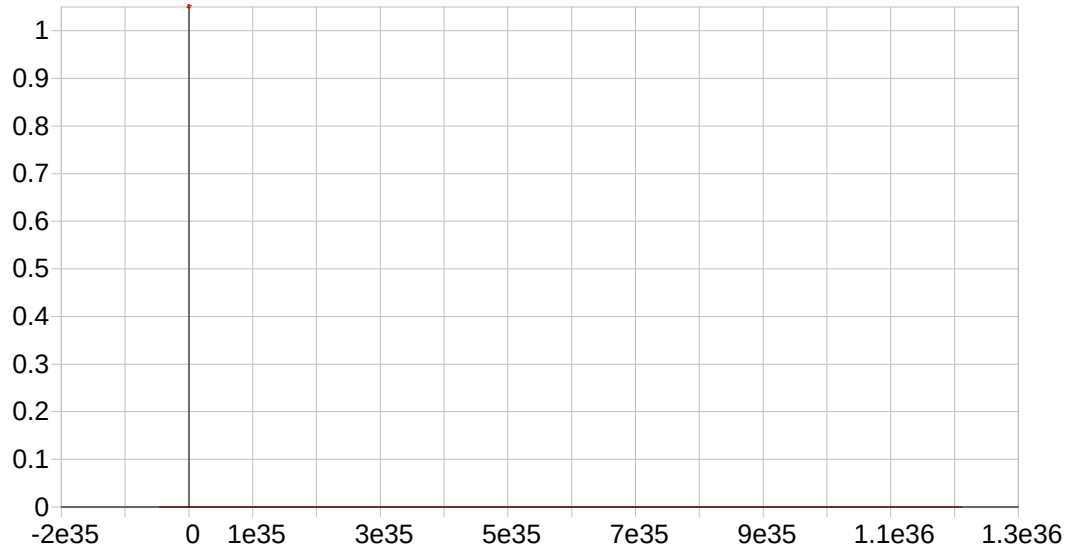


Y 360.073 { 94}*

Date of Fit:	4/16/2018 11:03:22	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				

Predicted MDL: n/a
Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

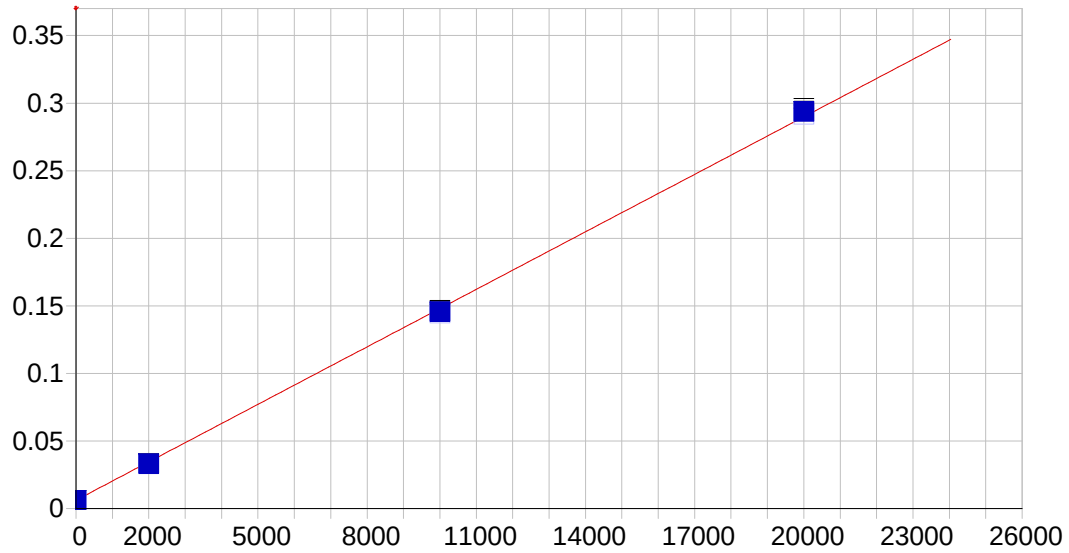


Y 371.030 { 91}*

Date of Fit: 4/16/2018 11:03:22 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
A1 (Gain): 0.000000 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.000000 Status: Warning Zero Gain
Std Error of Est: 192.759705
Predicted MDL: n/a
Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Si 288.158 {117}

Date of Fit: 4/16/2018 11:38:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.006194	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.000098		
Predicted MDL:	19.046396		
Predicted MQL:	63.487986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.11222	.112	.000	.00620	.000	1
CAL5	20000.	20271.	271.	1.35	.29152	.002	1
CAL3	2000.0	1893.6	-106.	-5.32	.03283	.000	1
CAL4	10000.	9835.6	-164.	-1.64	.14461	.001	1

Sample Name: CAL4 Acquired: 4/16/2018 11:30:04 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.481**	**.1470**	**.1721**	**4.498**	**1.942**	**1.881**
Stddev	.014	.0004	.0004	.011	.010	.008
%RSD	.3988	.2755	.2290	.2327	.5336	.4319
#1	3.472	.1467	.1718	4.488	1.934	1.879
#2	3.473	.1474	.1719	4.509	1.939	1.875
#3	3.497	.1468	.1725	4.498	1.954	1.891

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.441**	**2.063**	**.4835**	**2.413**	**.5140**	**1.885**
Stddev	.004	.008	.0014	.005	.0017	.008
%RSD	.3033	.3969	.2996	.1899	.3360	.4285
#1	1.435	2.053	.4835	2.410	.5131	1.880
#2	1.443	2.067	.4821	2.411	.5130	1.880
#3	1.443	2.068	.4850	2.418	.5160	1.894

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.093**	**2.540**	**14.73**	**.5043**	**.7466**	**.0614**
Stddev	.005	.007	.03	.0013	.0019	.0002
%RSD	.4439	.2828	.2333	.2523	.2516	.3001
#1	1.091	2.537	14.75	.5029	.7445	.0613
#2	1.090	2.535	14.69	.5046	.7478	.0616
#3	1.099	2.548	14.75	.5054	.7476	.0613

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0910**	**.1025**	**.3866**	**2.111**	**.2954**	**.8084**
Stddev	.0003	.0003	.0012	.010	.0008	.0027
%RSD	.3174	.2633	.3220	.4728	.2822	.3316
#1	.0907	.1022	.3856	2.102	.2945	.8053
#2	.0911	.1028	.3862	2.111	.2959	.8102
#3	.0912	.1026	.3880	2.122	.2959	.8096

Sample Name: CAL4 Acquired: 4/16/2018 11:30:04 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1624**	**22.55**	**3.772**	**.1446**
Stddev	.0008	.08	.008	.0008
%RSD	.5133	.3565	.2134	.5868
#1	.1614	22.50	3.768	.1437
#2	.1627	22.50	3.782	.1448
#3	.1631	22.64	3.767	.1453

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7950.5**	**76403.**	**10013.**
Stddev	15.2	262.	37.
%RSD	.19166	.34287	.36585
#1	7966.1	76314.	10023.
#2	7949.6	76698.	10044.
#3	7935.7	76197.	9972.9

Sample Name: ICIS Cal Blk Acquired: 4/16/2018 11:14:24 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0005**	**-.0003**	**.0000**	**.0001**	**.0001**	**-.0039**
Stddev	.0002	.0000	.0001	.0001	.0002	.0000
%RSD	46.16	6.411	135.9	39.17	243.6	.7843
#1	.0002	-.0003	.0000	.0002	.0000	-.0039
#2	.0005	-.0003	.0000	.0002	-.0001	-.0039
#3	.0007	-.0003	.0001	.0001	.0003	-.0039

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0001**	**.0000**	**.0027**	**.0000**	**-.0020**
Stddev	.0000	.0001	.0000	.0000	.0000	.0008
%RSD	31.50	45.61	95.74	1.045	101.4	40.94
#1	-.0001	.0002	.0001	.0027	.0000	-.0024
#2	-.0002	.0001	.0000	.0027	.0000	-.0024
#3	-.0002	.0001	.0000	.0027	-.0000	-.0010

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0000**	**.0001**	**.0010**	**.0000**	**-.0002**	**.0001**
Stddev	.0000	.0000	.0004	.0000	.0001	.0001
%RSD	72.00	4.423	34.91	119.7	53.33	88.78
#1	-.0000	.0001	.0013	-.0000	-.0003	.0001
#2	-.0000	.0001	.0006	.0000	-.0002	-.0000
#3	-.0000	.0001	.0012	.0001	-.0001	.0001

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0004**	**-.0004**	**.0001**	**-.0000**	**.0100**	**.0003**
Stddev	.0000	.0000	.0001	.0000	.0000	.0000
%RSD	10.29	6.523	54.33	594.8	.3813	14.22
#1	.0004	-.0005	.0000	-.0001	.0100	.0003
#2	.0004	-.0004	.0002	.0000	.0100	.0003
#3	.0004	-.0004	.0001	.0000	.0101	.0002

Sample Name: ICIS Cal Blk Acquired: 4/16/2018 11:14:24 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**-.0033**	**.0005**	**.0062**
Stddev	.0001	.0005	.0000	.0001
%RSD	65.57	14.73	3.593	1.067
#1	-.0000	-.0029	.0004	.0061
#2	-.0002	-.0032	.0005	.0062
#3	-.0001	-.0038	.0005	.0062

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8560.4**	**82449.**	**10337.**
Stddev	22.9	507.	99.
%RSD	.26772	.61490	.95951
#1	8550.3	81915.	10229.
#2	8586.7	82507.	10357.
#3	8544.3	82924.	10425.

Sample Name: CAL2 Acquired: 4/16/2018 11:22:26 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0059**	**.0005**	**.0014**	**.0926**	**.0040**	**.0716**
Stddev	.0004	.0000	.0000	.0001	.0001	.0001
%RSD	6.583	5.293	2.284	.1035	2.882	.1724
#1	.0059	.0005	.0014	.0926	.0039	.0716
#2	.0063	.0006	.0014	.0925	.0041	.0717
#3	.0055	.0006	.0014	.0927	.0040	.0714

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0046**	**.0420**	**.0010**	**.0072**	**.0007**	**.1866**
Stddev	.0001	.0002	.0000	.0000	.0000	.0011
%RSD	1.094	.5573	1.276	.4564	2.811	.5760
#1	.0046	.0422	.0010	.0072	.0007	.1872
#2	.0045	.0418	.0010	.0071	.0007	.1853
#3	.0046	.0421	.0010	.0072	.0008	.1872

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0434**	**.0080**	**.5878**	**.0084**	**.0009**	**.0012**
Stddev	.0002	.0000	.0019	.0001	.0001	.0001
%RSD	.3998	.4789	.3253	.7131	6.506	5.566
#1	.0435	.0081	.5857	.0085	.0009	.0012
#2	.0435	.0080	.5895	.0084	.0010	.0011
#3	.0432	.0080	.5881	.0084	.0009	.0012

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0010**	**.0005**	**.0079**	**.0271**	**.0218**	**.0066**
Stddev	.0000	.0001	.0001	.0001	.0001	.0001
%RSD	1.939	11.61	.7470	.3180	.3702	1.353
#1	.0010	.0006	.0079	.0271	.0217	.0065
#2	.0010	.0004	.0080	.0271	.0218	.0066
#3	.0010	.0005	.0079	.0270	.0219	.0067

Sample Name: CAL2 Acquired: 4/16/2018 11:22:26 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	**.0081**	**.0860**	**.0082**
Stddev	.0001	.0002	.0001
%RSD	1.181	.2618	.7724
#1	.0082	.0858	.0081
#2	.0080	.0862	.0082
#3	.0081	.0860	.0082

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8524.8**	**82086.**	**10219.**
Stddev	10.8	267.	59.
%RSD	.12621	.32556	.58178
#1	8537.2	81903.	10155.
#2	8517.9	81963.	10272.
#3	8519.3	82393.	10231.

Sample Name: CAL1 Acquired: 4/16/2018 11:18:25 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0000**	**.0005**	**.0008**	**.0005**	**.0000**
Stddev	.0001	.0001	.0000	.0000	.0001
%RSD	185.6	17.30	4.018	2.475	919.6
#1	-.0001	.0004	.0008	.0005	.0000
#2	.0000	.0006	.0007	.0005	.0001
#3	-.0000	.0004	.0008	.0006	-.0001

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	**8465.0**
Stddev	12.7
%RSD	.14997
#1	8453.1
#2	8478.3
#3	8463.5

Sample Name: CAL5 Acquired: 4/16/2018 11:33:47 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.134**	**.3009**	**.3560**	**8.923**	**3.917**	**3.793**
Stddev	.024	.0024	.0014	.045	.016	.016
%RSD	.3307	.8052	.3825	.5077	.4057	.4230
#1	7.161	.2982	.3549	8.877	3.935	3.806
#2	7.117	.3016	.3554	8.925	3.906	3.775
#3	7.123	.3029	.3575	8.967	3.910	3.798

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.877**	**4.143**	**.9679**	**4.893**	**1.023**	**3.871**
Stddev	.009	.018	.0034	.032	.005	.011
%RSD	.3303	.4291	.3505	.6525	.4579	.2806
#1	2.868	4.125	.9688	4.860	1.027	3.883
#2	2.876	4.143	.9641	4.894	1.018	3.863
#3	2.887	4.160	.9707	4.924	1.026	3.867

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.215**	**4.949**	**28.67**	**1.005**	**1.490**	**.1255**
Stddev	.011	.035	.15	.004	.005	.0013
%RSD	.4950	.7122	.5220	.4243	.3382	1.021
#1	2.225	4.958	28.74	1.000	1.485	.1241
#2	2.203	4.910	28.78	1.004	1.489	.1259
#3	2.216	4.979	28.50	1.009	1.495	.1265

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1840**	**.2030**	**.7823**	**4.202**	**.5904**	**1.634**
Stddev	.0015	.0008	.0019	.009	.0053	.010
%RSD	.8119	.3817	.2366	.2030	.8956	.5909
#1	.1823	.2022	.7817	4.212	.5847	1.624
#2	.1846	.2031	.7809	4.196	.5912	1.635
#3	.1851	.2037	.7844	4.199	.5952	1.643

Sample Name: CAL5 Acquired: 4/16/2018 11:33:47 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3268**	**45.16**	**7.447**	**.2915**
Stddev	.0012	.29	.063	.0024
%RSD	.3770	.6438	.8430	.8333
#1	.3256	45.47	7.487	.2888
#2	.3268	45.12	7.375	.2923
#3	.3280	44.90	7.480	.2935

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7496.5**	**72729.**	**9591.2**
Stddev	11.5	485.	139.8
%RSD	.15276	.66725	1.4576
#1	7508.0	72187.	9430.1
#2	7496.2	73124.	9662.3
#3	7485.1	72876.	9681.1

Sample Name: CCVL Acquired: 4/16/2018 11:45:52 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**176.0**	**14.64**	**8.546**	**184.3**	**1.881**	**4461.**
Stddev	6.8	.71	.453	.4	.026	23.
%RSD	3.890	4.859	5.301	.2395	1.390	.5177
#1	168.1	15.45	8.197	184.7	1.878	4435.
#2	180.4	14.33	8.383	183.8	1.909	4469.
#3	179.6	14.13	9.058	184.2	1.857	4479.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.648**	**45.32**	**8.994**	**20.49**	**137.5**	**4436.**
Stddev	.070	.19	.289	.23	3.8	16.
%RSD	1.907	.4117	3.213	1.113	2.746	.3614
#1	3.716	45.37	9.013	20.72	133.8	4423.
#2	3.577	45.48	9.274	20.48	141.3	4431.
#3	3.651	45.11	8.697	20.27	137.3	4454.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4383.**	**14.15**	**4594.**	**37.04**	**9.778**	**16.62**
Stddev	5.	.07	10.	.22	.899	1.10
%RSD	.1142	.4906	.2177	.5817	9.190	6.609
#1	4384.	14.19	4582.	37.06	9.051	15.46
#2	4378.	14.20	4599.	36.81	9.499	16.74
#3	4388.	14.07	4600.	37.24	10.78	17.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 11:45:52 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.01**	**18.02**	**44.20**	**29.20**	**39.81**	**18.12**
Stddev	.63	1.05	.17	.15	.65	.47
%RSD	3.729	5.856	.3906	.5178	1.632	2.593
#1	16.48	17.10	44.37	29.19	40.34	18.64
#2	17.71	17.79	44.02	29.35	39.08	17.73
#3	16.85	19.18	44.21	29.05	40.00	18.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**44.60**	**17.83**	**19.13**	F **-81.87**
Stddev	.42	.11	.14	15.13
%RSD	.9391	.6312	.7430	18.48
#1	44.41	17.75	19.29	-76.86
#2	45.08	17.79	19.02	-69.87
#3	44.31	17.96	19.08	-98.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8481.2**	**80956.**	**9930.3**
Stddev	15.2	237.	84.0
%RSD	.17923	.29324	.84626
#1	8474.5	80940.	10027.
#2	8470.5	81200.	9887.4
#3	8498.6	80726.	9876.3

Sample Name: CAL3 Acquired: 4/16/2018 11:26:22 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6776**	**.0280**	**.0328**	**.9012**	**.3865**	**.3650**
Stddev	.0012	.0001	.0000	.0012	.0002	.0006
%RSD	.1740	.5190	.0459	.1363	.0548	.1773
#1	.6763	.0279	.0328	.9005	.3865	.3646
#2	.6779	.0279	.0328	.9005	.3867	.3658
#3	.6786	.0282	.0327	.9026	.3863	.3647

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2897**	**.4122**	**.0971**	**.4587**	**.1031**	**.3640**
Stddev	.0007	.0005	.0003	.0005	.0003	.0007
%RSD	.2437	.1150	.2932	.0987	.2585	.1895
#1	.2891	.4118	.0970	.4586	.1029	.3633
#2	.2895	.4120	.0974	.4582	.1034	.3640
#3	.2905	.4127	.0968	.4591	.1030	.3646

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2105**	**.5123**	**2.869**	**.1022**	**.1501**	**.0119**
Stddev	.0005	.0008	.009	.0003	.0003	.0000
%RSD	.2477	.1580	.3261	.3271	.1891	.3283
#1	.2101	.5115	2.858	.1018	.1499	.0119
#2	.2111	.5132	2.872	.1023	.1501	.0119
#3	.2103	.5123	2.876	.1024	.1504	.0120

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0178**	**.0203**	**.0763**	**.4297**	**.0649**	**.1594**
Stddev	.0001	.0001	.0003	.0004	.0003	.0004
%RSD	.6503	.3366	.3360	.0893	.4255	.2793
#1	.0177	.0204	.0765	.4293	.0647	.1591
#2	.0179	.0202	.0765	.4299	.0648	.1591
#3	.0177	.0204	.0760	.4299	.0652	.1599

Sample Name: CAL3 Acquired: 4/16/2018 11:26:22 Type: Cal
Method: MC04092018(v4) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0322**	**4.409**	**.7566**	**.0328**
Stddev	.0001	.016	.0015	.0003
%RSD	.3499	.3553	.1974	.9531
#1	.0321	4.394	.7549	.0326
#2	.0321	4.408	.7572	.0328
#3	.0323	4.425	.7578	.0332

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8395.3**	**80652.**	**10245.**
Stddev	11.2	170.	8.
%RSD	.13306	.21066	.07349
#1	8403.3	80786.	10237.
#2	8400.2	80461.	10246.
#3	8382.6	80708.	10252.

Sample Name: SCAN Acquired: 4/16/2018 11:49:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **45.88**	**4.243**	**-.1290**	**107.9**	**.1378**	F **24340.**
Stddev	3.82	1.076	.3085	1.1	.0478	201.
%RSD	8.320	25.37	239.1	1.065	34.71	.8276
#1	47.78	4.829	-.1112	106.7	.1472	24150.
#2	41.49	3.000	-.4460	108.1	.0860	24320.
#3	48.38	4.898	.1702	109.0	.1803	24550.
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	600000.					600000.
Low Limit	400000.					400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.535**	**4.863**	**1.069**	F **27.67**	F **395.3**	**556.8**
Stddev	.075	.168	.184	.60	6.4	6.6
%RSD	4.882	3.450	17.17	2.161	1.627	1.185
#1	1.507	4.690	1.121	27.16	390.7	555.6
#2	1.620	4.875	.8646	27.52	392.6	563.8
#3	1.478	5.025	1.220	28.32	402.7	550.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				20.00	240000.	
Low Limit				-20.00	160000.	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **861.2**	F **1194.**	F **284900.**	**10.84**	F **172.4**	**1.714**
Stddev	3.5	11.	4586.	.06	1.1	.840
%RSD	.4085	.9527	1.610	.5701	.6577	49.02
#1	859.1	1184.	290000.	10.78	171.1	2.593
#2	859.2	1191.	283700.	10.83	172.6	.9189
#3	865.3	1206.	281000.	10.90	173.4	1.630
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	600000.	15.00	5000.		10.00	
Low Limit	400000.	-15.00	-5000.		-10.00	

Sample Name: SCAN Acquired: 4/16/2018 11:49:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.145**	**1.705**	**-.8391**	F **121.6**	**13.64**	**.1700**
Stddev	2.333	.305	.2009	1.4	.29	.0448
%RSD	203.8	17.88	23.94	1.158	2.153	26.33
#1	-3.798	1.877	-1.048	120.3	13.31	.1817
#2	.5827	1.884	-.8221	121.6	13.75	.2078
#3	-.2185	1.353	-.6473	123.1	13.87	.1206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				30.00		
Low Limit				-30.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.440**	F **62.89**	**2.280**	F **318.4**
Stddev	.181	.64	.067	29.7
%RSD	12.57	1.013	2.947	9.331
#1	1.334	62.43	2.347	293.3
#2	1.338	62.63	2.212	310.8
#3	1.650	63.62	2.283	351.2
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit		50.00		200.0
Low Limit		-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8276.9**	**77777.**	**10026.**
Stddev	82.6	489.	77.
%RSD	.99748	.62875	.76485
#1	8364.2	78205.	9943.4
#2	8266.3	77881.	10095.
#3	8200.1	77244.	10038.

Sample Name: SCAN Acquired: 4/16/2018 12:02:02 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42.40**	**-.1054**	**-.0106**	**46.80**	**.0228**	F **6459.**
Stddev	.00	.0000	.0000	.00	.0000	.
%RSD	.0000	.0000	.0000	.0000	.0000	.0000
#1	42.40	-.1054	-.0106	46.80	.0228	6459.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400.0
Low Limit						-400.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2753**	**-.0077**	F **-.1336**	F **209.4**	**20.57**	**514.2**
Stddev	.0000	.0000	.0000	.0	.00	.0
%RSD	.0000	.0000	.0000	.0000	.0000	.0000
#1	.2753	-.0077	-.1336	209.4	20.57	514.2
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			12000.	12000.		
Low Limit			8000.	8000.		

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**718.2**	F **62.64**	F **280900.**	F **3.048**	**8.504**	**.1561**
Stddev	.0	.00	.	.000	.000	.0000
%RSD	.0000	.0000	.0000	.0000	.0000	.0000
#1	718.2	62.64	280900.	3.048	8.504	.1561
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		12000.	5000.	12000.		
Low Limit		8000.	-5000.	8000.		

Sample Name: SCAN Acquired: 4/16/2018 12:02:02 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.282**	**-1.022**	**.1262**	**33.47**	**17.47**	F **-.1819**
Stddev	.000	.000	.0000	.00	.00	.0000
%RSD	.0000	.0000	.0000	.0000	.0000	.0000
#1	-4.282	-1.022	.1262	33.47	17.47	-.1819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						6000.
Low Limit						4000.

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7724**	F **33.12**	F **1.609**	F **371.5**
Stddev	.0000	.00	.000	.0
%RSD	.0000	.0000	.0000	.0000
#1	.7724	33.12	1.609	371.5
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		20.00	12000.	200.0
Low Limit		-20.00	8000.	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8238.1**	**77100.**	**9757.5**
Stddev	.0	.	.0
%RSD	.00000	.00000	.00000
#1	8238.1	77100.	9757.5

Sample Name: CCB Acquired: 4/16/2018 11:41:50 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.365**	**1.664**	**-.2037**	**.3638**	**.1306**	**10.66**
Stddev	21.44	.383	.0856	.3246	.1456	10.45
%RSD	1570.	23.01	42.00	89.24	111.5	98.03
#1	20.74	1.508	-.1485	.7299	.2974	22.55
#2	5.020	1.384	-.1604	.2506	.0657	6.496
#3	-21.66	2.101	-.3022	.1109	.0288	2.935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0633**	**.1005**	**-.0255**	**-.2249**	**7.891**	**39.31**
Stddev	.0695	.1803	.1454	.7599	7.974	16.69
%RSD	109.9	179.5	570.1	337.9	101.0	42.46
#1	.1316	.3033	.0965	.6486	16.99	57.69
#2	-.0074	.0398	.0134	-.7340	2.097	35.16
#3	.0656	-.0418	-.1864	-.5892	4.592	25.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13.64**	**.1563**	**56.00**	**.5232**	**1.304**	**.5918**
Stddev	12.15	.3261	30.47	.2977	.359	1.514
%RSD	89.07	208.6	54.42	56.90	27.51	255.8
#1	27.19	.5266	90.94	.1871	1.710	-1.118
#2	10.03	.0302	42.18	.7540	1.030	1.134
#3	3.707	-.0879	34.88	.6286	1.172	1.760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 11:41:50 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.079**	**.4550**	**-.1889**	**.2346**	**2.781**	**2.552**
Stddev	.997	.6332	.3350	.0856	.411	.701
%RSD	92.38	139.1	177.4	36.50	14.79	27.47
#1	1.934	1.091	.1299	.2929	3.094	3.288
#2	-.0157	-.1749	-.5380	.1363	2.316	2.474
#3	1.318	.4486	-.1584	.2745	2.934	1.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2594**	**.2999**	**2.032**	**1.857**
Stddev	.2542	.4068	1.215	8.620
%RSD	98.00	135.7	59.80	464.0
#1	.4796	.7696	3.424	4.829
#2	.3172	.0622	1.492	8.598
#3	-.0187	.0678	1.181	-7.855
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8543.2**	**81601.**	**10074.**
Stddev	40.3	801.	101.
%RSD	.47144	.98149	.99902
#1	8589.3	82157.	10133.
#2	8525.6	81964.	10131.
#3	8514.7	80683.	9957.7

Sample Name: CCV Acquired: 4/16/2018 11:38:06 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**121500.**	**2451.**	**1224.**	**9942.**	**979.5**	**123300.**
Stddev	915.	17.	12.	67.	7.0	1423.
%RSD	.7529	.6856	1.012	.6754	.7121	1.154
#1	121300.	2432.	1219.	9867.	975.2	122600.
#2	120700.	2456.	1215.	9961.	975.8	122400.
#3	122500.	2465.	1238.	9997.	987.6	125000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1237.**	**2465.**	**4949.**	**12280.**	**99060.**	**48720.**
Stddev	8.	16.	60.	130.	1224.	374.
%RSD	.6681	.6304	1.219	1.056	1.236	.7686
#1	1228.	2447.	4918.	12210.	98460.	48510.
#2	1241.	2469.	4910.	12210.	98260.	48490.
#3	1243.	2477.	5018.	12430.	100500.	49150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**122900.**	**5038.**	**124300.**	**2480.**	**7428.**	**973.9**
Stddev	1409.	60.	851.	17.	47.	7.5
%RSD	1.146	1.185	.6840	.6794	.6364	.7707
#1	122200.	5006.	124100.	2461.	7375.	965.8
#2	121900.	5001.	123600.	2487.	7443.	975.1
#3	124500.	5107.	125300.	2492.	7466.	980.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 11:38:06 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2466.**	**2489.**	**2455.**	**2479.**	**985.6**	**2459.**
Stddev	12.	16.	27.	18.	6.0	15.
%RSD	.4687	.6418	1.100	.7119	.6045	.6039
#1	2452.	2472.	2441.	2459.	978.7	2444.
#2	2470.	2492.	2438.	2484.	988.3	2462.
#3	2474.	2504.	2486.	2493.	989.7	2473.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**986.2**	**4929.**	**10030.**	**9656.**
Stddev	5.9	38.	142.	116.
%RSD	.5948	.7652	1.416	1.204
#1	979.5	4919.	9924.	9633.
#2	989.0	4898.	9981.	9553.
#3	990.2	4971.	10190.	9782.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7950.7**	**76375.**	**10000.**
Stddev	47.2	705.	50.
%RSD	.59408	.92261	.49784
#1	7998.9	76710.	10032.
#2	7948.6	76849.	10026.
#3	7904.5	75565.	9943.1

Sample Name: SCAN Acquired: 4/16/2018 11:53:50 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **11.86**	F **2.207**	F **-.2130**	**108.1**	F **.0415**	F **7127.**
Stddev	10.76	.440	.1783	1.3	.1330	59.
%RSD	90.76	19.94	83.74	1.245	320.8	.8342
#1	-.5645	2.013	-.0259	106.9	.1947	7066.
#2	18.35	1.897	-.3810	107.8	-.0438	7131.
#3	17.79	2.711	-.2321	109.5	-.0265	7185.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	600000.	120.0	120.0		120.0	600000.
Low Limit	400000.	80.00	80.00		80.00	400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **.3674**	F **.9558**	F **-.0434**	F **3.853**	F **35.97**	F **560.3**
Stddev	.0493	.0922	.3386	.104	4.25	16.8
%RSD	13.41	9.647	779.8	2.700	11.83	3.006
#1	.4243	1.011	.1101	3.763	40.02	563.5
#2	.3380	1.007	-.4316	3.829	36.34	542.1
#3	.3399	.8493	.1913	3.967	31.54	575.3
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	120.0	120.0	120.0	120.0	240000.	12000.
Low Limit	80.00	80.00	80.00	80.00	160000.	8000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **725.3**	F **130.3**	F **275200.**	F **5.474**	F **46.57**	F **1.773**
Stddev	6.3	1.2	2219.	.295	.52	.811
%RSD	.8667	.9393	.8062	5.389	1.111	45.71
#1	718.1	129.7	272600.	5.725	46.67	1.160
#2	728.1	129.4	276400.	5.149	47.04	2.692
#3	729.7	131.7	276500.	5.547	46.02	1.467
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	600000.	120.0	12000.	120.0	120.0	120.0
Low Limit	400000.	80.00	8000.	80.00	80.00	80.00

Sample Name: SCAN Acquired: 4/16/2018 11:53:50 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **-2.344**	F **.2185**	F **-.2549**	F **30.14**	F **26.56**	F **-.1825**
Stddev	1.431	1.965	.1557	.24	1.30	.0890
%RSD	61.06	899.0	61.09	.8099	4.882	48.77
#1	-1.657	.0435	-.0775	29.92	25.97	-.2483
#2	-3.990	-1.653	-.3690	30.09	25.65	-.2180
#3	-1.387	2.265	-.3181	30.40	28.04	-.0812
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	120.0	120.0	120.0	120.0	120.0	120.0
Low Limit	80.00	80.00	80.00	80.00	80.00	80.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **1.007**	F **43.41**	F **.5486**	F **657.2**
Stddev	.170	.68	.0417	17.8
%RSD	16.85	1.560	7.610	2.708
#1	1.177	42.90	.5447	670.0
#2	1.005	43.15	.5922	636.9
#3	.8380	44.18	.5089	664.7
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	120.0	120.0	120.0	200.0
Low Limit	80.00	80.00	80.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8297.1**	**78032.**	**10099.**
Stddev	77.2	514.	102.
%RSD	.93090	.65894	1.0097
#1	8358.3	78406.	10216.
#2	8322.6	78245.	10029.
#3	8210.3	77446.	10053.

Sample Name: SCAN Acquired: 4/16/2018 11:57:56 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30.01**	**2.469**	**-.0270**	**37.09**	**.0172**	F **186500.**
Stddev	2.44	.970	.3788	.22	.0463	1141.
%RSD	8.118	39.30	1403.	.5943	269.8	.6117
#1	32.45	2.691	-.2512	37.28	-.0047	185400.
#2	30.00	3.309	-.2402	36.85	-.0141	186500.
#3	27.58	1.407	.4104	37.15	.0703	187600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400.0
Low Limit						-400.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0979**	F **.2063**	**-1.394**	**.6672**	**13.24**	**2154.**
Stddev	.0733	.2379	.505	.1716	11.31	29.
%RSD	74.83	115.3	36.20	25.73	85.46	1.328
#1	-.1824	-.0545	-1.900	.8556	1.806	2135.
#2	-.0598	.2620	-1.390	.5198	13.48	2187.
#3	-.0516	.4115	-.8911	.6260	24.43	2140.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		12000.				
Low Limit		8000.				

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3111.**	F **43.57**	F **273800.**	**3.035**	**-2.054**	**-1.075**
Stddev	16.	.22	1439.	.232	1.888	.166
%RSD	.5060	.5106	.5254	7.654	91.90	15.43
#1	3102.	43.49	274800.	3.085	-4.134	-.9483
#2	3101.	43.40	274400.	3.239	-1.579	-1.013
#3	3129.	43.82	272100.	2.782	-.4493	-1.262
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		15.00	5000.			
Low Limit		-15.00	-5000.			

Sample Name: SCAN Acquired: 4/16/2018 11:57:56 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.326**	**-1.073**	F **1.005**	**1.549**	**32.90**	**.0008**
Stddev	.674	1.359	.333	.048	.67	.1183
%RSD	28.99	126.7	33.14	3.120	2.046	15750.
#1	-2.886	-2.262	.7127	1.501	33.20	.0225
#2	-1.577	.4085	1.367	1.598	32.13	.1067
#3	-2.514	-1.365	.9344	1.548	33.37	-.1270
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			6000.			
Low Limit			4000.			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F **.7208**	F **1005.**	**3.371**	F **4847.**
Stddev	.7395	5.	.183	12.
%RSD	102.6	.4687	5.431	.2499
#1	-.1323	999.5	3.564	4851.
#2	1.116	1007.	3.200	4856.
#3	1.179	1008.	3.348	4833.
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	12000.	12000.		12000.
Low Limit	8000.	8000.		8000.

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7984.7**	**75408.**	**9785.4**
Stddev	17.8	520.	124.1
%RSD	.22301	.69021	1.2686
#1	8003.9	75950.	9906.4
#2	7968.8	75363.	9791.5
#3	7981.6	74912.	9658.3

Sample Name: CCV Acquired: 4/16/2018 12:13:04 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**122600.**	**2450.**	**1226.**	**9973.**	**986.8**	**123900.**
Stddev	307.	10.	3.	8.	1.3	148.
%RSD	.2502	.4133	.2172	.0816	.1276	.1195
#1	122200.	2453.	1223.	9968.	985.6	123800.
#2	122700.	2459.	1227.	9983.	988.1	124100.
#3	122800.	2439.	1228.	9969.	986.7	123900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1241.**	**2475.**	**4972.**	**12300.**	**99580.**	**49210.**
Stddev	2.	3.	9.	10.	73.	128.
%RSD	.1289	.1229	.1772	.0831	.0731	.2596
#1	1241.	2477.	4964.	12300.	99520.	49070.
#2	1243.	2476.	4981.	12300.	99660.	49240.
#3	1239.	2471.	4972.	12280.	99570.	49320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123600.**	**5062.**	**125800.**	**2491.**	**7456.**	**975.4**
Stddev	122.	3.	157.	2.	14.	5.5
%RSD	.0985	.0515	.1248	.0676	.1826	.5609
#1	123400.	5060.	125900.	2491.	7459.	969.8
#2	123600.	5065.	125900.	2492.	7468.	980.7
#3	123600.	5063.	125600.	2489.	7441.	975.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 12:13:04 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2467.**	**2494.**	**2466.**	**2489.**	**984.6**	**2463.**
Stddev	8.	7.	2.	6.	2.2	3.
%RSD	.3324	.2704	.0909	.2269	.2228	.1231
#1	2470.	2499.	2467.	2492.	982.0	2461.
#2	2473.	2497.	2466.	2492.	985.8	2466.
#3	2458.	2487.	2463.	2482.	985.8	2461.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**990.7**	**4968.**	**10070.**	**9522.**
Stddev	6.2	6.	39.	119.
%RSD	.6237	.1216	.3826	1.246
#1	995.2	4961.	10030.	9639.
#2	993.3	4973.	10110.	9527.
#3	983.7	4969.	10080.	9401.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7896.0**	**75689.**	**9750.6**
Stddev	26.8	85.	69.4
%RSD	.33921	.11283	.71141
#1	7869.9	75695.	9826.4
#2	7894.8	75600.	9735.0
#3	7923.4	75771.	9690.3

Sample Name: CCVL Acquired: 4/16/2018 12:20:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**177.5**	**13.91**	**8.300**	**184.3**	**1.839**	**4415.**
Stddev	5.5	1.42	.501	.4	.057	42.
%RSD	3.111	10.18	6.036	.2223	3.103	.9565
#1	177.8	13.89	8.046	183.9	1.797	4455.
#2	171.9	15.34	8.877	184.5	1.815	4371.
#3	182.9	12.51	7.977	184.6	1.904	4418.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.616**	**45.15**	**8.852**	**20.27**	**134.7**	**4430.**
Stddev	.083	.22	.116	.19	1.3	23.
%RSD	2.286	.4867	1.314	.9610	.9891	.5228
#1	3.691	45.40	8.771	20.45	133.2	4406.
#2	3.527	45.02	8.985	20.06	135.4	4453.
#3	3.630	45.02	8.800	20.29	135.5	4431.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4337.**	**13.94**	**4604.**	**37.04**	**10.25**	**17.88**
Stddev	37.	.09	35.	.20	.32	.40
%RSD	.8498	.6645	.7602	.5420	3.137	2.237
#1	4361.	13.92	4575.	36.95	10.62	18.32
#2	4294.	13.85	4594.	36.89	10.07	17.53
#3	4356.	14.03	4643.	37.26	10.06	17.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 12:20:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.08**	**19.00**	**44.21**	**29.03**	**39.80**	**17.68**
Stddev	1.83	1.31	.79	.05	.34	.12
%RSD	11.38	6.889	1.784	.1876	.8600	.6717
#1	18.05	20.51	44.76	29.00	39.44	17.76
#2	14.43	18.34	43.31	29.09	39.85	17.75
#3	15.77	18.16	44.57	28.99	40.12	17.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**44.78**	**17.79**	**18.68**	F **-80.40**
Stddev	.35	.15	.25	9.47
%RSD	.7893	.8188	1.341	11.78
#1	44.41	17.74	18.89	-74.47
#2	45.12	17.68	18.74	-75.40
#3	44.81	17.96	18.40	-91.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8502.5**	**81537.**	**9999.3**
Stddev	21.1	538.	88.0
%RSD	.24767	.66027	.88036
#1	8497.6	81178.	10093.
#2	8484.3	82156.	9985.8
#3	8525.6	81277.	9918.8

Sample Name: ICSAB 5674412 Acquired: 4/16/2018 12:28:52 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**480000.**	**95.77**	**101.1**	**97.55**	**98.37**	**473400.**
Stddev	3083.	1.58	.6	1.37	.03	3263.
%RSD	.6423	1.651	.6327	1.404	.0307	.6893
#1	483300.	95.05	101.8	97.26	98.34	471500.
#2	477300.	94.68	100.8	96.35	98.37	471600.
#3	479300.	97.58	100.6	99.04	98.40	477200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**95.21**	**91.91**	**96.61**	**106.3**	**187100.**	**10130.**
Stddev	.95	.92	.60	1.3	1531.	61.
%RSD	.9962	1.003	.6203	1.254	.8182	.6014
#1	95.10	91.79	96.70	106.8	186600.	10200.
#2	94.33	91.06	95.97	104.8	185900.	10080.
#3	96.21	92.89	97.16	107.3	188800.	10120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**475500.**	**100.4**	**10590.**	**92.69**	**90.45**	**99.06**
Stddev	4609.	.9	64.	.93	.59	1.31
%RSD	.9693	.8971	.6081	1.002	.6494	1.318
#1	472300.	100.7	10660.	93.08	90.69	100.4
#2	473500.	99.45	10530.	91.63	90.88	97.82
#3	480800.	101.2	10580.	93.37	89.78	98.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB 5674412 Acquired: 4/16/2018 12:28:52 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**102.9**	**91.27**	**96.64**	**91.09**	**88.67**	**97.64**
Stddev	2.5	3.61	.88	.62	1.56	1.05
%RSD	2.476	3.955	.9104	.6772	1.755	1.071
#1	102.1	94.08	96.83	90.95	89.14	97.26
#2	100.9	92.53	95.69	90.56	86.94	96.83
#3	105.8	87.20	97.42	91.77	89.94	98.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**95.02**	**98.32**	**99.93**	F **-247.6**
Stddev	.57	.96	.79	10.8
%RSD	.5992	.9777	.7868	4.371
#1	94.93	99.42	100.1	-237.5
#2	94.51	97.64	99.07	-246.3
#3	95.64	97.89	100.6	-259.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7645.4**	**72483.**	**9596.2**
Stddev	52.8	438.	41.6
%RSD	.69065	.60479	.43352
#1	7648.7	72674.	9592.3
#2	7696.5	72793.	9639.7
#3	7591.1	71981.	9556.7

Sample Name: 460-153622-i-22-e ms Acquired: 4/16/2018 12:44:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1303.**	**1017.**	**99.72**	**2166.**	**207.8**	**6032.**
Stddev	9.	6.	.31	5.	.8	4.
%RSD	.6743	.6331	.3116	.2423	.3908	.0712
#1	1297.	1016.	99.62	2170.	206.8	6033.
#2	1313.	1024.	100.1	2168.	208.3	6027.
#3	1300.	1011.	99.47	2160.	208.2	6035.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**212.4**	**212.3**	**1071.**	**203.9**	**350.3**	**4536.**
Stddev	.2	.2	1.	.0	5.6	49.
%RSD	.0895	.0764	.0980	.0227	1.610	1.084
#1	212.6	212.3	1071.	204.0	344.3	4480.
#2	212.2	212.5	1072.	203.9	351.1	4573.
#3	212.3	212.1	1070.	204.0	355.4	4554.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4410.**	**742.3**	F **286300.**	**214.1**	**1059.**	**209.8**
Stddev	17.	1.5	1922.	.5	1.	2.7
%RSD	.3944	.1998	.6711	.2167	.0809	1.287
#1	4394.	741.3	288200.	214.6	1059.	211.7
#2	4408.	744.0	286400.	213.7	1059.	211.1
#3	4428.	741.7	284400.	214.0	1058.	206.7
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153622-i-22-e ms Acquired: 4/16/2018 12:44:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**210.8**	**212.1**	**104.9**	**227.3**	**220.5**	**208.8**
Stddev	2.2	3.0	.1	.3	1.0	.4
%RSD	1.054	1.391	.1365	.1312	.4502	.2115
#1	213.0	209.0	104.7	227.3	221.5	209.3
#2	210.7	212.4	104.9	227.0	220.4	208.7
#3	208.6	214.9	105.0	227.5	219.5	208.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**205.7**	**214.9**	**217.5**	**514.9**
Stddev	.8	.5	.5	1.5
%RSD	.4027	.2490	.2381	.2906
#1	206.6	214.5	217.7	513.1
#2	205.4	215.5	217.8	515.5
#3	205.0	214.7	216.9	515.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8196.0**	**76935.**	**9791.3**
Stddev	13.8	106.	61.5
%RSD	.16808	.13815	.62784
#1	8194.0	77032.	9831.9
#2	8183.4	76822.	9720.6
#3	8210.7	76950.	9821.4

Sample Name: INT10 A 5642381 Acquired: 4/16/2018 12:32:51 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42.74**	**4.894**	**10.26**	**1.004**	**3.718**	**66.61**
Stddev	17.68	.125	.23	.158	.088	9.38
%RSD	41.36	2.552	2.228	15.76	2.355	14.08
#1	61.44	4.825	10.52	1.025	3.649	76.41
#2	26.31	5.038	10.08	.8366	3.817	65.71
#3	40.46	4.819	10.19	1.151	3.689	57.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2841**	**10490.**	**-.4013**	**2.356**	**.3259**	**33.68**
Stddev	.1177	93.	.2684	.437	3.025	19.69
%RSD	41.42	.8885	66.90	18.54	928.2	58.48
#1	-.1701	10420.	-.5839	2.283	2.001	55.23
#2	-.2772	10460.	-.0930	1.961	-3.166	29.19
#3	-.4051	10600.	-.5269	2.825	2.143	16.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**40.81**	**.4214**	**57.46**	**-4.872**	**-3.918**	**-33.86**
Stddev	11.55	.0287	9.72	.255	.358	1.17
%RSD	28.29	6.807	16.91	5.236	9.127	3.465
#1	54.11	.3917	68.46	-5.105	-3.592	-32.54
#2	34.91	.4489	50.05	-4.600	-3.863	-34.25
#3	33.41	.4235	53.88	-4.911	-4.301	-34.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT10 A 5642381 Acquired: 4/16/2018 12:32:51 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-8.164**	**-1.696**	**5013.**	**1.919**	**-30.96**	**-1.740**
Stddev	.513	1.300	49.	.098	.31	.125
%RSD	6.280	76.63	.9786	5.105	.9946	7.166
#1	-8.754	-.1955	4966.	2.023	-30.97	-1.785
#2	-7.907	-2.463	5009.	1.907	-31.26	-1.599
#3	-7.830	-2.430	5064.	1.828	-30.65	-1.836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**10020.**	**10070.**	**.0516**	**8903.**
Stddev	83.	49.	.0460	137.
%RSD	.8285	.4884	89.16	1.541
#1	9959.	10020.	-.0005	8826.
#2	9982.	10060.	.0685	8822.
#3	10110.	10120.	.0869	9062.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8585.0**	**82476.**	**10168.**
Stddev	57.4	555.	79.
%RSD	.66805	.67277	.77885
#1	8615.3	82838.	10259.
#2	8620.7	82754.	10129.
#3	8518.8	81837.	10115.

Sample Name: PDS 460-153622-i-22- Acquired: 4/16/2018 12:41:04 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2287.**	**1995.**	**45.72**	**2116.**	**51.06**	**21890.**
Stddev	19.	3.	.15	3.	.16	74.
%RSD	.8311	.1339	.3287	.1473	.3060	.3392
#1	2272.	1992.	45.86	2113.	51.14	21830.
#2	2281.	1995.	45.76	2117.	51.16	21880.
#3	2309.	1998.	45.56	2119.	50.88	21970.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**51.12**	**513.3**	**210.8**	**253.2**	**1130.**	**20330.**
Stddev	.23	1.0	1.4	1.6	4.	45.
%RSD	.4435	.2011	.6630	.6133	.3299	.2219
#1	50.92	512.7	212.4	254.9	1129.	20380.
#2	51.09	512.6	209.7	251.9	1127.	20290.
#3	51.37	514.4	210.3	252.8	1134.	20330.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19480.**	**1062.**	F **310300.**	**504.3**	**520.4**	**491.1**
Stddev	37.	1.	6572.	1.0	3.2	.4
%RSD	.1905	.1301	2.118	.2075	.6204	.0767
#1	19450.	1061.	317800.	503.6	521.4	490.8
#2	19520.	1062.	307900.	503.8	516.9	491.2
#3	19480.	1064.	305300.	505.5	523.1	491.5
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: PDS 460-153622-i-22- Acquired: 4/16/2018 12:41:04 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2043.**	**2061.**	**511.4**	**532.7**	**515.9**	**509.1**
Stddev	13.	8.	.7	2.3	1.8	2.6
%RSD	.6341	.3792	.1463	.4363	.3548	.5110
#1	2057.	2065.	510.6	532.0	517.9	512.1
#2	2031.	2052.	511.5	530.9	514.4	507.9
#3	2041.	2066.	512.1	535.3	515.3	507.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**504.7**	**512.3**	**532.8**	**673.4**
Stddev	2.2	1.1	1.4	20.0
%RSD	.4437	.2165	.2713	2.966
#1	505.2	512.6	532.3	669.4
#2	502.2	511.0	531.7	655.8
#3	506.6	513.2	534.5	695.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8160.2**	**76543.**	**9863.4**
Stddev	44.7	91.	39.3
%RSD	.54754	.11873	.39873
#1	8170.2	76607.	9849.3
#2	8199.1	76582.	9833.1
#3	8111.4	76439.	9907.8

Sample Name: CCB Acquired: 4/16/2018 12:16:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0843**	**.9897**	**.1937**	**.0589**	**.0220**	**10.37**
Stddev	19.21	.6125	.1304	.3322	.0936	3.01
%RSD	22800.	61.88	67.30	564.0	426.5	29.04
#1	16.04	1.386	.2363	.4411	.0810	13.43
#2	-21.34	1.299	.2975	-.1609	.0709	10.28
#3	5.048	.2843	.0474	-.1035	-.0860	7.412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0213**	**.0291**	**-.0955**	**-.1982**	**7.940**	**42.09**
Stddev	.1056	.1486	.1534	.3916	8.863	18.43
%RSD	495.8	510.6	160.5	197.6	111.6	43.80
#1	.1321	.1187	.0462	.2506	13.89	54.53
#2	-.0781	.1110	-.0745	-.3752	12.17	50.83
#3	.0099	-.1424	-.2584	-.4700	-2.245	20.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.71**	**.0339**	**62.03**	**.3556**	**.6967**	**.4523**
Stddev	6.63	.2637	24.74	.5476	1.086	2.063
%RSD	56.60	778.9	39.89	154.0	155.9	456.0
#1	19.35	.3125	90.46	.9696	1.810	-1.866
#2	7.567	.0011	50.28	-.0822	.6394	1.137
#3	8.207	-.2120	45.36	.1793	-.3595	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 12:16:47 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.392**	**2.284**	**-.0516**	**.1383**	**1.963**	**1.642**
Stddev	1.330	.731	.1500	.0287	.273	.491
%RSD	95.56	32.01	291.0	20.77	13.90	29.88
#1	1.437	2.334	-.0286	.1185	2.244	2.205
#2	.0399	2.988	-.2117	.1712	1.945	1.413
#3	2.699	1.529	.0856	.1251	1.699	1.308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1785**	**.1526**	**1.262**	**8.065**
Stddev	.5106	.4007	.921	6.534
%RSD	286.1	262.5	72.97	81.02
#1	.3840	.6152	2.306	1.846
#2	-.6126	-.0849	.9138	14.87
#3	-.3068	-.0725	.5659	7.474
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8559.0**	**82071.**	**10103.**
Stddev	15.1	252.	94.
%RSD	.17597	.30711	.93287
#1	8541.6	82034.	10190.
#2	8567.7	81840.	10003.
#3	8567.7	82340.	10115.

Sample Name: SD 460-153622-i-22-c Acquired: 4/16/2018 12:56:55 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38.57**	**-.6086**	**.0539**	**14.19**	**-.0292**	**395.6**
Stddev	8.93	.4318	.3048	.37	.0645	1.1
%RSD	23.16	70.95	565.3	2.592	220.7	.2818
#1	43.30	-.4234	-.1094	14.09	-.0973	394.5
#2	44.15	-1.102	-.1345	13.89	-.0212	396.7
#3	28.27	-.3003	.4056	14.60	.0309	395.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0882**	**.6428**	**-.2041**	**-.3217**	**23.71**	**102.3**
Stddev	.0927	.1399	.3948	.1928	13.88	18.6
%RSD	105.1	21.76	193.5	59.91	58.53	18.14
#1	-.1952	.5218	-.1296	-.4515	8.516	116.5
#2	-.0366	.7960	-.6309	-.4135	26.90	81.32
#3	-.0328	.6107	.1482	-.1002	35.72	109.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**101.3**	**108.9**	**61400.**	**.5553**	**2.221**	**.4990**
Stddev	3.0	1.1	472.	.3349	.477	.4694
%RSD	2.952	.9910	.7687	60.30	21.47	94.06
#1	100.7	108.2	61120.	.3703	1.955	1.011
#2	98.65	108.4	61140.	.9419	2.772	.3956
#3	104.5	110.1	61950.	.3538	1.936	.0900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SD 460-153622-i-22-c Acquired: 4/16/2018 12:56:55 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3272**	**-.9020**	**-.3792**	**1.356**	**3.989**	**-.2028**
Stddev	.6325	.9693	.2398	.085	.366	.1795
%RSD	193.3	107.5	63.24	6.300	9.182	88.50
#1	.4012	.1126	-.3159	1.439	4.239	-.4030
#2	-.6443	-1.819	-.6444	1.361	3.569	-.0560
#3	-.7384	-.9998	-.1774	1.268	4.159	-.1495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1785**	**1.975**	**-.1354**	**62.72**
Stddev	.2927	.053	.1447	16.12
%RSD	164.0	2.666	106.8	25.70
#1	.1909	2.003	-.2562	68.40
#2	-.1202	1.914	-.1749	44.53
#3	.4649	2.008	.0249	75.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8437.6**	**80079.**	**9845.0**
Stddev	72.2	628.	30.6
%RSD	.85518	.78471	.31036
#1	8496.1	80470.	9843.5
#2	8459.7	80413.	9876.3
#3	8356.9	79354.	9815.2

Sample Name: lcs 460-511164/2-a Acquired: 4/16/2018 13:00:55 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**997.7**	F **961.2**	F **95.71**	F **2074.**	F **201.3**	**4015.**
Stddev	13.8	13.7	1.28	22.	1.8	48.
%RSD	1.378	1.422	1.334	1.084	.9030	1.184
#1	1000.	955.1	95.11	2059.	200.8	3997.
#2	982.9	951.7	94.85	2064.	199.8	3980.
#3	1010.	976.9	97.18	2100.	203.3	4069.
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None
Value		2500.	250.0	5000.	500.0	
Range		-20.00%	-20.00%	-20.00%	-20.00%	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **209.1**	**206.5**	F **1053.**	F **190.2**	**207.7**	**4088.**
Stddev	2.7	2.3	12.	1.8	3.0	29.
%RSD	1.288	1.093	1.132	.9271	1.423	.7099
#1	207.4	205.1	1048.	189.8	211.1	4081.
#2	207.8	205.4	1044.	188.7	205.9	4063.
#3	212.2	209.1	1066.	192.1	206.0	4119.
Check ?	Chk Fail	None	Chk Fail	Chk Fail	None	None
Value	500.0		2500.	500.0		
Range	-20.00%		-20.00%	-20.00%		

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3991.**	**216.6**	**3959.**	F **212.1**	F **1040.**	**200.9**
Stddev	47.	2.0	35.	2.3	12.	.2
%RSD	1.179	.9360	.8902	1.086	1.116	.0966
#1	3969.	215.5	3968.	210.2	1031.	201.1
#2	3959.	215.3	3920.	211.4	1037.	200.7
#3	4045.	218.9	3989.	214.6	1053.	200.9
Check ?	None	None	None	Chk Fail	Chk Fail	None
Value				500.0	2500.	
Range				-20.00%	-20.00%	

Sample Name: lcs 460-511164/2-a Acquired: 4/16/2018 13:00:55 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **193.7**	**208.6**	**100.4**	F **214.2**	**200.5**	**201.3**
Stddev	3.5	3.9	.8	2.4	2.2	2.1
%RSD	1.819	1.877	.7773	1.119	1.090	1.048
#1	191.4	204.8	99.79	212.4	199.8	200.0
#2	192.0	208.3	100.2	213.3	198.7	200.2
#3	197.8	212.6	101.3	217.0	202.9	203.8
Check ?	Chk Fail	None	None	Chk Fail	None	None
Value	500.0			500.0		
Range	-20.00%			-20.00%		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**203.4**	**202.3**	**205.2**	**70.11**
Stddev	3.0	1.1	1.7	6.32
%RSD	1.477	.5218	.8422	9.022
#1	201.2	202.2	204.9	65.47
#2	202.1	201.3	203.6	77.31
#3	206.8	203.4	207.0	67.55
Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8494.5**	**81641.**	**10093.**
Stddev	74.6	741.	107.
%RSD	.87781	.90813	1.0587
#1	8570.0	82106.	10049.
#2	8492.7	82031.	10215.
#3	8420.9	80786.	10016.

Sample Name: mb 460-511164/1-a Acquired: 4/16/2018 13:16:17 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.448**	**-.2025**	**-.0391**	**-.2575**	**-.0248**	**-.2053**
Stddev	13.94	1.110	.4591	.1676	.0655	1.543
%RSD	147.6	548.2	1174.	65.09	264.5	751.5
#1	.3210	.5311	.4909	-.1151	-.0849	.1681
#2	-3.251	.3411	-.3174	-.2153	.0451	-1.900
#3	-25.41	-1.480	-.2908	-.4422	-.0345	1.116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0687**	**-.0411**	**-.5228**	**-1.036**	**-.8695**	**14.62**
Stddev	.0493	.0875	.2161	.230	5.684	7.26
%RSD	71.77	212.7	41.34	22.25	653.7	49.65
#1	-.1187	-.0195	-.4703	-.9959	5.526	12.51
#2	-.0674	.0335	-.3378	-1.283	-2.793	22.70
#3	-.0201	-.1374	-.7604	-.8276	-5.342	8.647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.928**	**-.1393**	**21.52**	**.1748**	**.5146**	**-1.114**
Stddev	1.989	.0730	4.35	.4052	.8477	1.683
%RSD	40.36	52.39	20.21	231.8	164.7	151.1
#1	3.805	-.0595	26.48	.5343	.9414	-2.019
#2	7.225	-.2028	19.71	.2543	1.064	-2.152
#3	3.756	-.1557	18.37	-.2642	-.4617	.8277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-511164/1-a Acquired: 4/16/2018 13:16:17 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.089**	**.3408**	**-.3500**	**.0120**	**2.074**	**-.2110**
Stddev	.940	.6419	.2022	.1298	.182	.1861
%RSD	86.32	188.4	57.77	1085.	8.777	88.21
#1	-1.811	-.3025	-.1941	-.0869	2.264	-.3402
#2	-.0261	.3436	-.5785	.1590	1.902	.0023
#3	-1.430	.9812	-.2774	-.0362	2.055	-.2949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0223**	**-.1211**	**-.4882**	**3.290**
Stddev	.0046	.0210	.0256	13.09
%RSD	20.63	17.37	5.251	397.9
#1	.0192	-.1355	-.5110	16.44
#2	.0202	-.0970	-.4932	-9.742
#3	.0276	-.1308	-.4605	3.169
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8437.4**	**80704.**	**9812.8**
Stddev	8.9	142.	54.2
%RSD	.10550	.17578	.55212
#1	8427.2	80570.	9764.2
#2	8443.8	80852.	9803.0
#3	8441.3	80690.	9871.2

Sample Name: CCB Acquired: 4/16/2018 13:08:20 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5186**	**1.225**	**.2524**	**.1454**	**.1024**	**8.973**
Stddev	9.868	1.747	.2724	.4371	.0990	4.173
%RSD	1903.	142.6	107.9	300.6	96.65	46.50
#1	8.991	2.649	.0203	.6462	.2161	13.31
#2	-10.71	1.751	.1845	-.0506	.0567	4.987
#3	.1624	-.7239	.5523	-.1594	.0346	8.622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0023**	**.0215**	**-.2309**	**-.2632**	**3.293**	**43.59**
Stddev	.0979	.1056	.5751	.8623	9.412	29.73
%RSD	4227.	490.5	249.1	327.6	285.8	68.20
#1	.1136	-.0991	.3747	.7290	14.07	77.15
#2	-.0357	.0667	-.7697	-.6875	-3.287	20.56
#3	-.0709	.0969	-.2976	-.8312	-.9076	33.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.574**	**.0849**	**84.55**	**.3392**	**.7612**	**.1567**
Stddev	3.296	.2576	29.30	.1641	.4346	1.047
%RSD	34.43	303.3	34.65	48.38	57.09	668.1
#1	11.83	.3694	114.8	.3995	1.262	-1.045
#2	5.791	.0179	82.55	.1535	.4800	.8773
#3	11.10	-.1326	56.30	.4646	.5419	.6375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 13:08:20 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.130**	**.2471**	**-.3820**	**-.0155**	**2.264**	**1.893**
Stddev	.694	.3347	.0970	.1296	.339	.461
%RSD	61.37	135.4	25.40	833.3	14.98	24.38
#1	.5613	.5342	-.4863	.1321	2.652	2.425
#2	1.903	.3275	-.3652	-.0687	2.118	1.637
#3	.9264	-.1205	-.2945	-.1101	2.023	1.615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2884**	**.2618**	**1.468**	**-4.408**
Stddev	.0388	.3320	1.037	25.75
%RSD	13.45	126.8	70.65	584.2
#1	.3284	.6452	2.645	18.12
#2	.2859	.0688	1.069	-32.48
#3	.2509	.0715	.6897	1.132
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8504.6**	**81635.**	**10029.**
Stddev	63.4	309.	15.
%RSD	.74562	.37795	.14916
#1	8574.4	81838.	10033.
#2	8489.0	81787.	10042.
#3	8450.5	81280.	10013.

Sample Name: CCVL Acquired: 4/16/2018 13:12:21 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**169.2**	**13.91**	**8.859**	**185.4**	**1.799**	**4493.**
Stddev	10.5	1.19	.101	.3	.056	18.
%RSD	6.190	8.583	1.144	.1834	3.098	.4058
#1	170.6	14.72	8.968	185.7	1.738	4478.
#2	178.9	12.54	8.768	185.1	1.811	4489.
#3	158.1	14.47	8.841	185.3	1.847	4513.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.669**	**45.70**	**9.136**	**20.76**	**142.8**	**4515.**
Stddev	.018	.14	.242	.44	3.8	16.
%RSD	.4958	.3022	2.652	2.142	2.681	.3482
#1	3.671	45.73	8.907	21.26	138.4	4531.
#2	3.686	45.54	9.110	20.40	145.1	4499.
#3	3.650	45.81	9.390	20.62	145.0	4514.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4422.**	**14.34**	**4653.**	**37.54**	**8.707**	**17.41**
Stddev	20.	.05	19.	.28	.139	.53
%RSD	.4516	.3759	.4033	.7540	1.601	3.068
#1	4402.	14.29	4665.	37.53	8.853	17.46
#2	4442.	14.33	4661.	37.26	8.576	16.85
#3	4421.	14.39	4631.	37.83	8.692	17.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 13:12:21 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.00**	**18.83**	**44.61**	**29.24**	**39.92**	**18.15**
Stddev	.60	1.10	.07	.02	.38	.05
%RSD	3.138	5.827	.1585	.0643	.9503	.2572
#1	18.53	17.65	44.67	29.26	40.35	18.10
#2	18.80	19.82	44.63	29.22	39.63	18.18
#3	19.67	19.00	44.53	29.23	39.77	18.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**44.95**	**17.93**	**18.83**	F **-82.47**
Stddev	.33	.03	.01	28.20
%RSD	.7283	.1729	.0263	34.19
#1	45.32	17.97	18.82	-49.96
#2	44.82	17.92	18.83	-100.4
#3	44.70	17.91	18.83	-97.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8412.0**	**80614.**	**9875.8**
Stddev	18.3	173.	81.5
%RSD	.21703	.21483	.82563
#1	8392.5	80762.	9917.2
#2	8428.8	80657.	9928.4
#3	8414.6	80424.	9781.9

Sample Name: 460-153622-f-24-b Acquired: 4/16/2018 13:28:31 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**175.1**	**1.818**	**-.1217**	**71.32**	**.3218**	**1486.**
Stddev	6.9	.371	.3979	.17	.0631	10.
%RSD	3.946	20.41	326.8	.2400	19.60	.6807
#1	169.4	2.179	-.1317	71.52	.2638	1492.
#2	182.8	1.438	.2810	71.22	.3127	1491.
#3	173.2	1.838	-.5146	71.23	.3890	1474.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0100**	**7.622**	**-.0230**	**1.156**	**105.7**	**381.9**
Stddev	.1173	.141	.3952	.045	5.1	15.9
%RSD	1178.	1.856	1721.	3.877	4.812	4.160
#1	.0562	7.678	.0441	1.115	111.2	381.1
#2	-.1454	7.727	.3345	1.150	101.2	398.2
#3	.0594	7.461	-.4474	1.204	104.7	366.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**496.9**	**878.8**	F **280800.**	**3.015**	**6.942**	**.9843**
Stddev	2.3	2.7	5584.	.604	.466	2.735
%RSD	.4618	.3037	1.988	20.03	6.715	277.9
#1	499.6	881.0	287300.	2.620	6.620	3.527
#2	495.7	879.5	277600.	2.716	6.729	-1.909
#3	495.6	875.8	277600.	3.710	7.476	1.335
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153622-f-24-b Acquired: 4/16/2018 13:28:31 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.751**	**.6745**	**-.5156**	**10.53**	**16.39**	**-.5362**
Stddev	1.364	.3086	.4122	.04	.51	.2772
%RSD	77.91	45.75	79.94	.4262	3.105	51.70
#1	-.7769	.4340	-.8843	10.57	16.30	-.8523
#2	-1.166	.5671	-.0706	10.55	15.92	-.3346
#3	-3.311	1.022	-.5919	10.48	16.93	-.4217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.8918**	**11.46**	**.5367**	**268.9**
Stddev	.2378	.08	.0786	11.3
%RSD	26.66	.7085	14.64	4.212
#1	.7719	11.48	.5173	277.6
#2	1.166	11.53	.4697	256.1
#3	.7379	11.37	.6232	272.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8094.7**	**75747.**	**9563.5**
Stddev	44.5	417.	109.5
%RSD	.54990	.55066	1.1449
#1	8045.5	75355.	9486.9
#2	8106.5	75701.	9514.6
#3	8132.2	76186.	9688.9

Sample Name: 460-153677-g-2-b Acquired: 4/16/2018 13:36:42 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**69.32**	**3.764**	**-.3075**	**134.1**	**.3721**	**4336.**
Stddev	5.80	.545	.2577	1.3	.1072	50.
%RSD	8.368	14.48	83.79	.9889	28.80	1.146
#1	70.57	4.211	-.4612	133.3	.4449	4279.
#2	74.38	3.925	-.4514	133.4	.4224	4370.
#3	62.99	3.157	-.0100	135.6	.2491	4360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1322**	**3.515**	**.5589**	**8.591**	**1441.**	**905.1**
Stddev	.1147	.107	.2776	.507	21.	28.4
%RSD	86.70	3.056	49.67	5.903	1.449	3.144
#1	.0017	3.453	.3930	8.125	1417.	873.9
#2	.1784	3.453	.4043	8.517	1454.	929.6
#3	.2166	3.639	.8793	9.131	1451.	911.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**608.3**	**643.8**	F **283500.**	**5.091**	**64.37**	**.6654**
Stddev	8.6	7.6	4432.	.190	.42	.7813
%RSD	1.415	1.186	1.564	3.731	.6473	117.4
#1	598.8	635.4	288600.	5.280	63.93	.5269
#2	615.4	645.7	281300.	4.900	64.77	-.0374
#3	610.8	650.3	280500.	5.093	64.40	1.507
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-g-2-b Acquired: 4/16/2018 13:36:42 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.896**	**-.0046**	**-.1922**	**28.82**	**15.93**	**-.6410**
Stddev	1.592	1.042	.2031	.08	.68	.1724
%RSD	54.98	22870.	105.7	.2769	4.285	26.89
#1	-1.191	1.017	.0347	28.91	15.29	-.5930
#2	-4.344	.0337	-.2542	28.77	15.86	-.8323
#3	-3.153	-1.065	-.3570	28.77	16.65	-.4977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.030**	**36.70**	**.1012**	**373.5**
Stddev	.362	.51	.2070	13.3
%RSD	35.09	1.385	204.5	3.564
#1	.6272	36.14	-.0544	358.1
#2	1.326	36.82	.0220	382.1
#3	1.138	37.13	.3362	380.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8209.9**	**77026.**	**9764.0**
Stddev	38.0	898.	124.1
%RSD	.46248	1.1658	1.2704
#1	8251.6	78059.	9906.8
#2	8200.4	76430.	9683.3
#3	8177.5	76590.	9701.8

Sample Name: 460-153622-e-23-c Acquired: 4/16/2018 13:24:25 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**140.2**	**2.740**	**-.0144**	**88.20**	**.2441**	**2242.**
Stddev	7.9	2.266	.2334	.17	.0357	5.
%RSD	5.629	82.71	1617.	.1952	14.62	.2246
#1	131.9	4.138	.2550	88.08	.2464	2247.
#2	141.1	.1253	-.1549	88.13	.2073	2237.
#3	147.7	3.956	-.1434	88.40	.2785	2241.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0673**	**5.779**	**.0018**	**1.263**	**121.3**	**346.2**
Stddev	.0709	.148	.1233	.176	1.5	25.5
%RSD	105.4	2.560	7016.	13.95	1.209	7.354
#1	.1096	5.765	.1175	1.196	119.7	318.5
#2	.1068	5.639	.0157	1.463	121.5	368.6
#3	-.0146	5.934	-.1280	1.130	122.6	351.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**623.9**	**865.8**	F **282000.**	**2.230**	**14.10**	**.5542**
Stddev	3.2	1.0	9215.	.362	.55	1.125
%RSD	.5056	.1120	3.267	16.22	3.888	203.0
#1	626.8	866.9	292200.	2.120	13.48	-.1278
#2	620.6	865.2	279500.	2.633	14.51	-.0624
#3	624.4	865.3	274300.	1.935	14.32	1.853
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153622-e-23-c Acquired: 4/16/2018 13:24:25 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6579**	**.2509**	**-.5659**	**12.22**	**13.96**	**-.6145**
Stddev	.9420	.7570	.1931	.08	.23	.2367
%RSD	143.2	301.7	34.12	.6923	1.642	38.52
#1	-.4792	.5350	-.7789	12.29	14.10	-.5723
#2	.1819	-.6070	-.5164	12.24	13.70	-.4017
#3	-1.676	.8247	-.4023	12.13	14.09	-.8694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.225**	**13.43**	**.5295**	**345.5**
Stddev	.292	.06	.1170	6.9
%RSD	23.84	.4535	22.09	1.991
#1	1.030	13.45	.6625	338.1
#2	1.561	13.36	.4837	351.8
#3	1.085	13.47	.4424	346.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8363.8**	**78300.**	**9962.2**
Stddev	5.1	251.	29.0
%RSD	.06098	.32117	.29063
#1	8360.4	78016.	9945.8
#2	8369.7	78495.	9995.6
#3	8361.3	78389.	9945.1

Sample Name: 460-153677-e-3-c Acquired: 4/16/2018 13:40:47 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**104.4**	**4.870**	**-.0217**	**93.72**	**.3021**	**3344.**
Stddev	5.4	1.199	.3557	1.12	.1502	44.
%RSD	5.150	24.61	1639.	1.198	49.72	1.325
#1	100.5	4.979	.2074	92.42	.1602	3293.
#2	110.5	6.011	-.4314	94.36	.4594	3365.
#3	102.2	3.621	.1590	94.38	.2867	3373.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2025**	**3.850**	**.7587**	**15.12**	**560.1**	**541.5**
Stddev	.0133	.180	.2462	.20	12.2	26.4
%RSD	6.554	4.688	32.45	1.294	2.169	4.881
#1	.2040	3.821	.5364	15.29	574.1	517.1
#2	.2149	4.043	.7165	15.17	552.3	569.6
#3	.1885	3.686	1.023	14.91	553.8	537.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**462.6**	**243.0**	F **278500.**	**9.894**	**19.76**	**1.148**
Stddev	3.0	1.3	406.	.160	.77	1.481
%RSD	.6460	.5281	.1458	1.613	3.871	129.1
#1	459.9	241.7	278800.	10.07	20.58	2.252
#2	465.8	243.0	278000.	9.762	19.07	-.5356
#3	462.0	244.3	278500.	9.848	19.63	1.727
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-e-3-c Acquired: 4/16/2018 13:40:47 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.466**	**-.1240**	**-.1581**	**63.80**	**33.64**	**-.4721**
Stddev	1.609	1.247	.0182	.60	.23	.0822
%RSD	109.8	1005.	11.49	.9411	.6912	17.42
#1	-3.168	1.263	-.1387	63.31	33.37	-.4466
#2	.0307	-1.151	-.1747	64.47	33.73	-.5640
#3	-1.261	-.4840	-.1610	63.62	33.80	-.4056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.157**	**27.58**	**1.517**	**343.9**
Stddev	.547	.16	.273	14.4
%RSD	47.25	.5649	18.02	4.176
#1	.5308	27.72	1.832	335.0
#2	1.403	27.41	1.363	336.1
#3	1.539	27.60	1.354	360.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8182.6**	**76995.**	**9727.8**
Stddev	42.4	384.	18.0
%RSD	.51820	.49902	.18514
#1	8230.6	77428.	9709.5
#2	8150.3	76695.	9728.5
#3	8167.0	76862.	9745.5

Sample Name: 460-153677-e-5-c Acquired: 4/16/2018 13:48:54 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**58.07**	**5.336**	**-.0383**	**79.84**	**.2123**	**10350.**
Stddev	1.75	1.359	.3123	.88	.1856	51.
%RSD	3.011	25.46	814.6	1.097	87.41	.4938
#1	60.08	6.274	.0065	78.84	.0379	10290.
#2	57.18	3.778	.2491	80.21	.4073	10370.
#3	56.94	5.956	-.3706	80.47	.1916	10390.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.052**	**7.700**	**.3584**	**12.91**	**660.9**	**632.7**
Stddev	.085	.241	.5349	.23	11.4	25.0
%RSD	8.099	3.135	149.2	1.749	1.721	3.955
#1	1.039	7.443	-.2080	12.66	649.0	604.3
#2	1.143	7.734	.4284	12.97	671.6	651.4
#3	.9741	7.923	.8548	13.10	662.0	642.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**935.8**	**590.7**	F **263800.**	**14.64**	**12.34**	**.1919**
Stddev	5.6	4.4	2329.	.38	.82	.1648
%RSD	.5947	.7497	.8832	2.608	6.683	85.87
#1	929.4	585.7	264600.	14.38	11.56	.0751
#2	939.5	592.7	261100.	15.08	13.20	.3805
#3	938.6	593.8	265500.	14.46	12.26	.1203
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-e-5-c Acquired: 4/16/2018 13:48:54 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.609**	**.4202**	**-.4307**	**233.3**	**20.02**	**-.4524**
Stddev	2.922	1.272	.0289	1.4	.95	.1361
%RSD	80.96	302.7	6.719	.5873	4.754	30.08
#1	-.9646	-.7947	-.4051	231.8	19.01	-.3176
#2	-3.117	.3133	-.4248	233.7	20.89	-.4499
#3	-6.747	1.742	-.4621	234.4	20.18	-.5898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3789**	**35.49**	**1.241**	**283.8**
Stddev	.2284	.88	.060	22.5
%RSD	60.29	2.487	4.857	7.937
#1	.2365	34.48	1.293	257.9
#2	.6424	35.83	1.254	298.7
#3	.2579	36.15	1.175	294.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8173.5**	**77044.**	**9783.1**
Stddev	46.4	148.	88.5
%RSD	.56815	.19162	.90414
#1	8226.5	77208.	9693.4
#2	8154.0	76923.	9870.3
#3	8139.9	77000.	9785.6

Sample Name: 460-153677-f-6-d Acquired: 4/16/2018 13:52:58 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**46.76**	**2.849**	**-.1183**	**97.91**	**.2831**	**10240.**
Stddev	3.42	.771	.4286	1.12	.0641	160.
%RSD	7.306	27.06	362.4	1.147	22.62	1.558
#1	50.64	3.034	-.2498	96.62	.3541	10060.
#2	45.42	2.002	-.4657	98.50	.2296	10310.
#3	44.21	3.510	.3607	98.63	.2657	10360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3793**	**2.047**	**.8072**	**33.48**	**212.5**	**655.7**
Stddev	.0479	.252	.4749	.47	5.8	7.4
%RSD	12.64	12.31	58.84	1.394	2.718	1.128
#1	.4345	1.759	1.249	33.00	211.2	658.2
#2	.3547	2.156	.8670	33.50	218.9	647.3
#3	.3486	2.226	.3052	33.94	207.5	661.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**872.9**	**232.6**	F **276600.**	**7.996**	**87.43**	**.6278**
Stddev	11.9	2.8	1201.	.166	.05	.3917
%RSD	1.363	1.201	.4341	2.078	.0572	62.39
#1	861.8	229.5	275700.	8.185	87.37	.1762
#2	871.5	233.8	278000.	7.930	87.44	.8319
#3	885.5	234.7	276100.	7.873	87.47	.8754
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-f-6-d Acquired: 4/16/2018 13:52:58 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.677**	**.1660**	**-.3473**	**86.76**	**17.92**	**-.6707**
Stddev	1.086	1.151	.1535	.82	.55	.1545
%RSD	29.53	693.7	44.19	.9424	3.065	23.04
#1	-2.759	1.207	-.1892	85.83	17.30	-.5193
#2	-3.398	-1.071	-.4956	87.09	18.34	-.6645
#3	-4.876	.3625	-.3572	87.37	18.13	-.8282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.177**	**45.09**	**.5774**	**394.2**
Stddev	.316	.42	.0885	11.7
%RSD	26.84	.9211	15.32	2.964
#1	1.277	45.38	.4952	395.3
#2	1.431	44.62	.6710	382.0
#3	.8235	45.28	.5660	405.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8180.6**	**77134.**	**9772.0**
Stddev	68.2	706.	35.0
%RSD	.83388	.91474	.35837
#1	8259.0	77934.	9806.0
#2	8134.8	76869.	9736.0
#3	8147.9	76599.	9774.0

Sample Name: CCVL Acquired: 4/16/2018 14:04:46 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**169.3**	**13.20**	**8.277**	**183.7**	**1.864**	**4435.**
Stddev	12.7	1.31	.012	2.0	.006	37.
%RSD	7.488	9.916	.1437	1.090	.3032	.8310
#1	180.7	13.32	8.265	182.6	1.858	4405.
#2	171.5	14.44	8.289	182.5	1.864	4423.
#3	155.6	11.83	8.279	186.0	1.869	4476.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.649**	**45.54**	**8.940**	**20.99**	**135.1**	**4497.**
Stddev	.030	.06	.461	.60	5.4	29.
%RSD	.8328	.1217	5.154	2.882	4.011	.6465
#1	3.659	45.48	9.457	20.35	128.9	4531.
#2	3.673	45.56	8.788	21.55	138.5	4476.
#3	3.615	45.59	8.574	21.08	138.0	4485.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4401.**	**14.05**	**4621.**	**37.74**	**9.452**	**17.51**
Stddev	32.	.07	24.	.62	.676	1.49
%RSD	.7310	.5302	.5119	1.639	7.156	8.492
#1	4414.	14.05	4642.	37.51	10.05	17.86
#2	4364.	13.98	4595.	37.27	8.717	18.79
#3	4423.	14.13	4626.	38.45	9.593	15.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 14:04:46 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.82**	**19.25**	**44.68**	**29.05**	**39.76**	**17.86**
Stddev	1.28	1.11	.11	.26	.36	.36
%RSD	7.181	5.769	.2364	.8928	.9056	1.999
#1	18.38	19.70	44.70	28.89	39.68	18.00
#2	16.35	17.99	44.78	28.91	39.45	17.46
#3	18.72	20.07	44.57	29.35	40.16	18.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**44.63**	**17.59**	**18.41**	F **-93.90**
Stddev	1.07	.10	.31	7.16
%RSD	2.391	.5626	1.680	7.623
#1	43.45	17.61	18.49	-85.66
#2	44.91	17.49	18.07	-98.59
#3	45.53	17.68	18.68	-97.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8467.0**	**81266.**	**10036.**
Stddev	49.1	399.	77.
%RSD	.58029	.49143	.77129
#1	8498.9	81140.	9967.5
#2	8491.6	81713.	10120.
#3	8410.4	80944.	10021.

Sample Name: ICSA 5787420 Acquired: 4/16/2018 12:24:42 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**498500.**	**2.495**	**.4453**	**-3.068**	**-.0275**	**487500.**
Stddev	2364.	1.337	.2739	.404	.0548	138.
%RSD	.4742	53.60	61.51	13.16	199.2	.0283
#1	495900.	1.973	.2084	-3.535	-.0493	487600.
#2	499200.	4.015	.7453	-2.849	-.0680	487500.
#3	500500.	1.497	.3822	-2.822	.0348	487400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1660**	**-3.238**	**-1.087**	**2.399**	**192700.**	**-20.32**
Stddev	.0546	.113	.278	.285	171.	18.72
%RSD	32.87	3.486	25.53	11.87	.0886	92.12
#1	.2221	-3.145	-1.408	2.525	192500.	.7113
#2	.1132	-3.207	-.9267	2.073	192900.	-26.52
#3	.1627	-3.364	-.9274	2.599	192800.	-35.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**492500.**	**.8008**	**88.41**	**-2.362**	**-2.799**	**-.3632**
Stddev	1289.	.0220	18.63	.339	1.575	1.873
%RSD	.2617	2.744	21.08	14.36	56.27	515.7
#1	494000.	.8249	67.17	-2.745	-2.171	.2803
#2	491800.	.7818	96.04	-2.102	-4.590	1.103
#3	491700.	.7958	102.0	-2.238	-1.635	-2.473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA 5787420 Acquired: 4/16/2018 12:24:42 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.563**	**-1.385**	**-.8594**	**-2.665**	**3.253**	**1.525**
Stddev	1.208	1.131	.2269	.196	.581	.409
%RSD	15.98	81.62	26.40	7.367	17.87	26.85
#1	6.584	-.1099	-1.091	-2.888	3.756	1.893
#2	7.192	-2.265	-.8495	-2.590	2.617	1.084
#3	8.913	-1.781	-.6377	-2.517	3.386	1.598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.8093**	**-1.272**	**-2.641**	**-158.5**
Stddev	.4360	.015	.026	18.7
%RSD	53.87	1.209	.9854	11.79
#1	-.6565	-1.288	-2.636	-165.6
#2	-1.301	-1.258	-2.618	-137.3
#3	-.4704	-1.269	-2.670	-172.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7609.0**	**72179.**	**9500.9**
Stddev	17.2	89.	81.4
%RSD	.22544	.12351	.85687
#1	7628.2	72114.	9589.6
#2	7595.4	72143.	9483.6
#3	7603.2	72281.	9429.6

Sample Name: INT10 B 5413110 Acquired: 4/16/2018 12:36:55 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.97**	**-13.76**	**.5814**	**.1758**	**4.377**	**43.81**
Stddev	6.68	.39	.1634	.0658	.066	7.71
%RSD	16.72	2.808	28.11	37.41	1.499	17.59
#1	46.87	-14.11	.4005	.1001	4.356	52.10
#2	33.52	-13.82	.6252	.2189	4.451	36.88
#3	39.52	-13.35	.7184	.2085	4.325	42.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1465**	**-3.094**	**10690.**	**9960.**	**15.26**	**13.19**
Stddev	.1088	.762	72.	47.	4.06	35.81
%RSD	74.28	24.64	.6779	.4674	26.62	271.5
#1	-.1555	-2.215	10640.	9935.	18.81	-27.64
#2	-.0335	-3.569	10660.	9932.	16.14	27.91
#3	-.2505	-3.499	10770.	10010.	10.83	39.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-18.47**	**10540.**	**31.81**	**11060.**	**2.312**	**-11.09**
Stddev	3.55	95.	5.23	99.	.782	1.87
%RSD	19.20	.9045	16.44	.8984	33.82	16.84
#1	-15.51	10470.	33.08	11000.	3.193	-9.184
#2	-17.51	10490.	36.28	11000.	2.042	-11.17
#3	-22.40	10650.	26.06	11170.	1.701	-12.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT10 B 5413110 Acquired: 4/16/2018 12:36:55 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.996**	**.8874**	**-26.00**	**1.196**	**-72.42**	**5079.**
Stddev	2.700	.8266	.69	.136	.47	48.
%RSD	67.56	93.16	2.662	11.38	.6510	.9426
#1	-6.584	1.356	-25.23	1.043	-71.93	5048.
#2	-4.205	1.373	-26.23	1.242	-72.44	5054.
#3	-1.198	-.0671	-26.55	1.304	-72.87	5134.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**7.897**	**.7582**	**10330.**	F **-356.5**
Stddev	.606	.8598	78.	12.4
%RSD	7.677	113.4	.7506	3.464
#1	8.554	1.736	10250.	-345.5
#2	7.780	.4166	10340.	-369.9
#3	7.358	.1217	10400.	-354.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8365.2**	**82245.**	**10133.**
Stddev	52.2	547.	42.
%RSD	.62432	.66516	.41796
#1	8393.3	82775.	10113.
#2	8397.3	82278.	10182.
#3	8304.9	81682.	10105.

Sample Name: 460-153622-i-22-d du Acquired: 4/16/2018 12:48:41 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**231.8**	**3.760**	**-.1542**	**74.64**	**.1833**	**2039.**
Stddev	2.1	.705	.5383	1.86	.1062	65.
%RSD	.9124	18.75	349.1	2.485	57.96	3.211
#1	231.0	3.064	.3578	72.65	.2872	1977.
#2	234.2	3.744	-.7154	74.95	.0749	2031.
#3	230.3	4.474	-.1049	76.32	.1876	2107.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1071**	**4.234**	**.3665**	**1.144**	**145.8**	**441.8**
Stddev	.0795	.153	.1284	.090	6.7	17.5
%RSD	74.29	3.623	35.03	7.858	4.579	3.958
#1	.0543	4.069	.2319	1.117	148.7	427.7
#2	.1986	4.260	.4876	1.071	138.1	436.3
#3	.0683	4.372	.3800	1.245	150.5	461.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**491.2**	**548.4**	F **285300.**	**2.545**	**12.37**	**.8147**
Stddev	17.8	17.4	9960.	.293	.49	1.072
%RSD	3.616	3.179	3.491	11.51	3.937	131.6
#1	472.5	530.1	275600.	2.876	12.90	.8105
#2	493.4	550.2	284700.	2.319	11.94	1.889
#3	507.8	564.9	295500.	2.440	12.26	-.2553
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153622-i-22-d du Acquired: 4/16/2018 12:48:41 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.417**	**.1589**	**-.2111**	**7.576**	**16.54**	**.6182**
Stddev	.106	2.041	.1950	.350	.75	.2449
%RSD	7.503	1284.	92.36	4.616	4.546	39.61
#1	-1.299	-.6001	-.1786	7.183	15.68	.8995
#2	-1.446	2.471	-.0344	7.690	17.02	.5020
#3	-1.505	-1.394	-.4203	7.853	16.94	.4531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.9180**	**10.89**	**2.423**	**397.8**
Stddev	.5224	.40	.148	11.6
%RSD	56.90	3.673	6.091	2.913
#1	1.519	10.49	2.521	384.4
#2	.6658	10.89	2.253	404.7
#3	.5695	11.29	2.494	404.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8196.0**	**76798.**	**9777.2**
Stddev	44.8	611.	88.1
%RSD	.54615	.79526	.90138
#1	8244.9	77311.	9862.2
#2	8186.2	76959.	9783.0
#3	8157.0	76122.	9686.2

Sample Name: 460-153678-c-2-b Acquired: 4/16/2018 14:16:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28.20**	**2.478**	**.1879**	**37.38**	**-.0115**	**185100.**
Stddev	3.39	.586	.0640	.53	.0672	2618.
%RSD	12.01	23.66	34.07	1.419	582.2	1.414
#1	27.53	3.148	.1334	36.79	-.0697	182200.
#2	31.88	2.226	.1719	37.52	-.0270	185900.
#3	25.20	2.060	.2584	37.82	.0620	187200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0457**	**.2589**	**-1.142**	**.9688**	**8.996**	**2165.**
Stddev	.0730	.1139	.233	.3938	6.594	25.
%RSD	159.7	43.98	20.44	40.65	73.30	1.137
#1	-.0118	.3000	-.9075	.8080	1.440	2137.
#2	.0041	.3465	-1.374	.6808	13.59	2181.
#3	-.1295	.1302	-1.144	1.418	11.96	2178.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3100.**	**43.58**	F **276000.**	**2.794**	**-2.851**	**-.5444**
Stddev	18.	.46	470.	.358	.491	1.157
%RSD	.5807	1.049	.1703	12.82	17.22	212.5
#1	3079.	43.07	275700.	2.513	-2.447	.2834
#2	3106.	43.73	276600.	3.197	-2.709	-.0506
#3	3114.	43.95	275900.	2.671	-3.397	-1.866
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153678-c-2-b Acquired: 4/16/2018 14:16:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.484**	**.0538**	**.9817**	**1.526**	**33.36**	**-.2800**
Stddev	1.347	1.290	.2257	.077	1.38	.1489
%RSD	54.21	2398.	22.99	5.043	4.128	53.16
#1	-2.613	.2045	.7732	1.439	31.81	-.1202
#2	-1.077	-1.305	.9505	1.558	34.45	-.3052
#3	-3.761	1.261	1.221	1.582	33.83	-.4147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.6558**	**999.7**	**3.371**	**4722.**
Stddev	.2147	14.8	.126	101.
%RSD	32.74	1.475	3.726	2.142
#1	.4115	984.0	3.317	4609.
#2	.8147	1002.	3.282	4802.
#3	.7411	1013.	3.515	4756.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7950.0**	**75578.**	**9697.1**
Stddev	70.2	750.	35.6
%RSD	.88277	.99294	.36764
#1	8030.4	76415.	9723.9
#2	7918.5	75356.	9710.7
#3	7901.0	74964.	9656.7

Sample Name: 460-153774-a-1-b@5 Acquired: 4/16/2018 14:37:17 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.04**	**9.828**	**.0554**	**579.8**	**-.0065**	**115100.**
Stddev	12.90	.629	.2488	3.6	.1000	667.
%RSD	67.75	6.403	449.3	.6192	1548.	.5799
#1	8.427	10.10	-.2179	576.3	-.1141	114700.
#2	15.29	10.27	.2688	583.4	.0835	114700.
#3	33.39	9.107	.1152	579.5	.0113	115800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.318**	**3.584**	**-.5062**	**653.8**	**18.33**	**3003.**
Stddev	.009	.142	.4885	5.3	2.27	25.
%RSD	.2598	3.953	96.50	.8171	12.41	.8316
#1	3.324	3.450	.0027	651.6	16.69	2982.
#2	3.308	3.732	-.5500	650.0	17.36	2996.
#3	3.322	3.571	-.9713	659.9	20.93	3031.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2527.**	**774.6**	F **269700.**	**62.52**	**.8945**	F **-21.39**
Stddev	9.	5.0	1234.	.47	.9520	1.34
%RSD	.3465	.6438	.4577	.7537	106.4	6.270
#1	2536.	772.4	269400.	62.07	-.0232	-22.71
#2	2518.	771.0	268600.	62.47	.8293	-21.43
#3	2528.	780.3	271000.	63.01	1.877	-20.03
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit			250000.			2000.
Low Limit			-5000.			-20.00

Sample Name: 460-153774-a-1-b@5 Acquired: 4/16/2018 14:37:17 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.532**	**-3.614**	**-.4465**	F **10060.**	**85.96**	**-.0651**
Stddev	1.205	1.770	.0681	78.	1.32	.0524
%RSD	26.58	48.98	15.25	.7721	1.534	80.50
#1	-3.759	-2.480	-.3720	9972.	84.52	-.0316
#2	-3.916	-5.654	-.4620	10100.	86.26	-.1255
#3	-5.919	-2.709	-.5056	10110.	87.10	-.0382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-2.274**	F **21190.**	**3.405**	**1886.**
Stddev	.034	169.	.152	43.
%RSD	1.485	.7990	4.453	2.306
#1	-2.248	21060.	3.396	1835.
#2	-2.263	21130.	3.561	1911.
#3	-2.312	21380.	3.258	1911.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		10000.		
Low Limit		-50.00		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7955.0**	**75073.**	**9523.5**
Stddev	54.9	173.	87.0
%RSD	.68994	.22983	.91362
#1	8017.8	75168.	9541.7
#2	7931.2	75177.	9599.9
#3	7916.0	74874.	9428.8

Sample Name: 460-153726-a-1-j@5 Acquired: 4/16/2018 14:29:07 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**142.0**	**1.304**	**.0959**	**64.77**	**.0679**	**17840.**
Stddev	9.3	.294	.4660	.11	.1190	83.
%RSD	6.549	22.57	486.1	.1680	175.2	.4675
#1	133.8	1.175	.1155	64.81	.0347	17820.
#2	140.2	1.097	.5517	64.86	-.0310	17770.
#3	152.1	1.642	-.3796	64.65	.2000	17930.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0777**	**4.605**	**1.073**	**11.94**	**321.3**	**1699.**
Stddev	.0591	.195	.306	.15	7.4	27.
%RSD	76.10	4.224	28.55	1.225	2.309	1.572
#1	.1460	4.629	.7209	11.79	323.0	1729.
#2	.0451	4.785	1.281	12.08	313.2	1690.
#3	.0420	4.399	1.216	11.93	327.7	1677.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**748.6**	**359.4**	F **278500.**	**11.30**	**1.684**	**.2963**
Stddev	13.0	1.9	2430.	.33	.260	.5618
%RSD	1.733	.5246	.8724	2.939	15.41	189.6
#1	757.1	358.3	281100.	11.48	1.977	-.2091
#2	733.6	358.2	276300.	10.92	1.481	.9012
#3	755.0	361.6	278100.	11.51	1.594	.1968
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153726-a-1-j@5 Acquired: 4/16/2018 14:29:07 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.885**	**.3382**	**.3506**	**74.02**	**62.56**	**6.302**
Stddev	2.694	2.156	.1484	.25	.24	.178
%RSD	143.0	637.5	42.34	.3371	.3864	2.829
#1	-2.733	-2.127	.1835	74.12	62.73	6.148
#2	-4.053	1.867	.4013	74.20	62.67	6.260
#3	1.132	1.275	.4671	73.74	62.28	6.497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.4736**	**14.18**	**8.041**	**444.7**
Stddev	.1226	.07	.087	24.2
%RSD	25.88	.4956	1.086	5.440
#1	.3615	14.11	8.008	424.1
#2	.6045	14.26	8.140	471.3
#3	.4548	14.18	7.975	438.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8123.3**	**76486.**	**9725.9**
Stddev	17.2	138.	63.6
%RSD	.21218	.18097	.65346
#1	8142.0	76521.	9684.0
#2	8108.0	76604.	9799.0
#3	8120.0	76334.	9694.7

Sample Name: 460-153622-i-22-c@5 Acquired: 4/16/2018 12:52:48 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**218.0**	**2.586**	**-.1348**	**69.85**	**.1892**	**1957.**
Stddev	15.7	.832	.2435	.67	.0599	7.
%RSD	7.222	32.16	180.6	.9586	31.68	.3408
#1	232.3	3.506	-.1399	70.53	.1499	1963.
#2	201.1	1.887	-.3757	69.83	.2581	1958.
#3	220.5	2.366	.1112	69.19	.1594	1950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0475**	**4.014**	**.1058**	**1.114**	**128.4**	**402.0**
Stddev	.0447	.111	.0761	.349	2.1	25.6
%RSD	94.26	2.765	71.91	31.35	1.674	6.359
#1	.0959	3.919	.0180	1.044	128.4	382.9
#2	.0389	4.136	.1481	.8056	126.3	431.0
#3	.0076	3.986	.1513	1.494	130.6	391.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**473.2**	**524.2**	F **278700.**	**2.185**	**10.88**	**1.424**
Stddev	3.4	2.1	3357.	.403	.87	.514
%RSD	.7150	.4004	1.205	18.46	7.985	36.09
#1	474.7	524.2	282500.	2.545	11.61	1.216
#2	475.5	526.3	276400.	1.749	9.922	1.046
#3	469.3	522.1	277000.	2.261	11.11	2.009
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153622-i-22-c@5 Acquired: 4/16/2018 12:52:48 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.472**	**1.147**	**-.0379**	**7.216**	**14.55**	**.0318**
Stddev	1.385	2.823	.1433	.132	.78	.1542
%RSD	56.01	246.1	378.4	1.835	5.359	485.1
#1	-3.550	-1.486	.0156	7.116	15.10	.0390
#2	-2.955	4.129	.0710	7.366	14.91	-.1259
#3	-.9105	.7989	-.2002	7.165	13.66	.1823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.476**	**10.44**	**2.147**	**366.1**
Stddev	.588	.09	.229	6.9
%RSD	39.86	.8820	10.67	1.895
#1	1.078	10.34	1.888	363.5
#2	1.199	10.50	2.321	374.0
#3	2.152	10.49	2.233	360.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8271.0**	**77267.**	**9711.2**
Stddev	31.5	281.	30.7
%RSD	.38107	.36429	.31628
#1	8247.4	77321.	9676.5
#2	8258.8	76962.	9734.8
#3	8306.8	77518.	9722.3

Sample Name: lb 460-510938/1-b@5 Acquired: 4/16/2018 14:41:28 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-6.436**	**-.3627**	**-.2580**	**-.1081**	**.0293**	**2.227**
Stddev	2.198	.2757	.6142	.1047	.1445	6.486
%RSD	34.16	76.02	238.1	96.86	493.3	291.3
#1	-6.773	-.6305	-.1624	-.1449	-.0736	9.497
#2	-4.089	-.0797	.3028	.0100	.1945	-2.965
#3	-8.446	-.3778	-.9144	-.1893	-.0330	.1469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0731**	**-.1859**	**-.5525**	**-.5384**	**9.313**	**33.16**
Stddev	.0587	.0577	.2966	.3437	5.105	31.01
%RSD	80.20	31.06	53.69	63.84	54.81	93.49
#1	-.1356	-.2476	-.2165	-.8900	12.72	.1292
#2	-.0647	-.1331	-.6626	-.2031	11.77	61.63
#3	-.0192	-.1771	-.7782	-.5223	3.444	37.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.233**	**-.1265**	**282.9**	**.0075**	**-.4646**	**.0069**
Stddev	1.992	.0419	85.7	.2634	.5616	.7453
%RSD	161.6	33.11	30.27	3514.	120.9	10780.
#1	-2.969	-.0808	377.3	.3113	-.8894	-.8528
#2	-1.670	-.1631	261.5	-.1581	.1721	.4706
#3	.9412	-.1355	210.1	-.1307	-.6766	.4030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lb 460-510938/1-b@5 Acquired: 4/16/2018 14:41:28 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1422**	**-.5614**	**-.2276**	**.7636**	**7.558**	**-.4112**
Stddev	.6233	.6206	.2104	.1447	.147	.2794
%RSD	438.3	110.5	92.42	18.95	1.951	67.93
#1	.4367	.0319	-.2521	.9294	7.698	-.0973
#2	-.8021	-.5101	-.0061	.6623	7.404	-.6324
#3	-.0612	-1.206	-.4247	.6992	7.571	-.5039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3513**	**1.730**	**-.8565**	**61.80**
Stddev	.2428	1.758	.0277	21.32
%RSD	69.13	101.6	3.229	34.50
#1	.1193	3.750	-.8696	86.42
#2	.6037	.5482	-.8247	49.03
#3	.3308	.8916	-.8751	49.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8407.8**	**81381.**	**9819.0**
Stddev	26.8	132.	84.5
%RSD	.31884	.16212	.86019
#1	8434.1	81437.	9765.0
#2	8408.8	81476.	9775.6
#3	8380.5	81230.	9916.3

Sample Name: 460-153677-e-4-c Acquired: 4/16/2018 13:44:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**69.79**	**2.162**	**-.4808**	**180.3**	**.4229**	**4402.**
Stddev	9.31	1.291	.3926	1.5	.0536	32.
%RSD	13.35	59.70	81.64	.8495	12.67	.7381
#1	74.82	2.605	-.9221	179.3	.4816	4365.
#2	59.04	.7081	-.3503	179.6	.4107	4418.
#3	75.51	3.173	-.1702	182.1	.3765	4423.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3978**	**4.229**	**.6381**	**20.23**	**1155.**	**589.3**
Stddev	.0534	.042	.0515	.20	14.	15.6
%RSD	13.43	.9980	8.073	.9871	1.245	2.648
#1	.4512	4.182	.5960	20.01	1148.	571.3
#2	.3979	4.242	.6955	20.28	1145.	599.2
#3	.3444	4.263	.6227	20.40	1172.	597.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**584.8**	**1790.**	F **285300.**	**8.866**	**46.49**	**.8537**
Stddev	6.2	14.	2525.	.510	1.30	1.038
%RSD	1.067	.7573	.8852	5.756	2.790	121.6
#1	585.3	1782.	288100.	8.412	45.28	1.245
#2	578.3	1783.	283300.	9.418	46.33	1.640
#3	590.7	1806.	284500.	8.767	47.86	-.3235
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-e-4-c Acquired: 4/16/2018 13:44:50 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.465**	**1.598**	**-.9562**	**90.39**	**41.78**	**-.9478**
Stddev	1.346	.406	.1828	.52	.36	.1389
%RSD	54.62	25.42	19.12	.5778	.8650	14.65
#1	-2.421	1.255	-.9630	90.11	41.44	-.8009
#2	-1.141	2.047	-.7702	90.07	41.73	-1.077
#3	-3.832	1.492	-1.136	91.00	42.16	-.9657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.055**	**31.62**	**.7371**	**324.4**
Stddev	.532	.17	.0931	17.3
%RSD	50.44	.5254	12.64	5.325
#1	.4445	31.48	.8200	320.8
#2	1.302	31.56	.7551	309.1
#3	1.420	31.80	.6363	343.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8225.7**	**77397.**	**9838.3**
Stddev	39.6	436.	72.2
%RSD	.48162	.56344	.73390
#1	8258.2	77700.	9917.3
#2	8237.4	77593.	9822.0
#3	8181.6	76897.	9775.7

Sample Name: CCV Acquired: 4/16/2018 13:04:37 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124100.**	**2483.**	**1238.**	**10080.**	**994.9**	**125000.**
Stddev	329.	5.	1.	10.	3.7	201.
%RSD	.2650	.1940	.1104	.0976	.3712	.1606
#1	124000.	2488.	1237.	10090.	994.9	124900.
#2	124500.	2482.	1240.	10070.	998.6	125200.
#3	123800.	2479.	1237.	10070.	991.2	124900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1253.**	**2499.**	**5019.**	**12470.**	**100300.**	**50250.**
Stddev	1.	3.	7.	20.	153.	156.
%RSD	.1153	.1152	.1402	.1611	.1525	.3106
#1	1254.	2501.	5014.	12490.	100200.	50180.
#2	1253.	2500.	5027.	12460.	100500.	50430.
#3	1251.	2495.	5017.	12460.	100200.	50140.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124200.**	**5096.**	**127800.**	**2512.**	**7531.**	**989.4**
Stddev	265.	5.	505.	5.	6.	2.9
%RSD	.2136	.1067	.3950	.2068	.0736	.2982
#1	124100.	5098.	128100.	2518.	7537.	986.0
#2	124500.	5101.	128000.	2510.	7530.	991.2
#3	124100.	5090.	127200.	2508.	7526.	991.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 13:04:37 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2501.**	**2517.**	**2493.**	**2511.**	**998.4**	**2487.**
Stddev	5.	5.	3.	8.	2.1	2.
%RSD	.2140	.1881	.1069	.3109	.2117	.0928
#1	2500.	2522.	2496.	2507.	1001.	2489.
#2	2507.	2516.	2493.	2520.	996.7	2488.
#3	2497.	2513.	2490.	2505.	997.7	2485.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**999.8**	**5025.**	**10130.**	**9492.**
Stddev	3.1	16.	17.	19.
%RSD	.3123	.3123	.1673	.1956
#1	1001.	5031.	10150.	9504.
#2	1002.	5037.	10120.	9500.
#3	996.2	5007.	10120.	9470.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7826.7**	**75329.**	**9613.6**
Stddev	6.9	76.	25.7
%RSD	.08876	.10105	.26694
#1	7829.3	75411.	9636.0
#2	7818.8	75261.	9585.6
#3	7832.0	75315.	9619.2

Sample Name: MISCUP Acquired: 4/16/2018 13:20:17 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-8.006**	**3.242**	**-.2708**	**-.3103**	**-.1611**	**183.4**
Stddev	8.506	.527	.1299	.0161	.0206	3.6
%RSD	106.2	16.25	47.96	5.186	12.82	1.950
#1	-5.994	3.237	-.4087	-.3256	-.1374	187.2
#2	-.6865	3.770	-.2529	-.2935	-.1751	182.7
#3	-17.34	2.717	-.1508	-.3119	-.1708	180.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0684**	**-.0536**	**-.3133**	**-6.006**	**-.4378**	**7.746**
Stddev	.0238	.0527	.0947	.079	5.300	6.651
%RSD	34.77	98.21	30.23	1.307	1211.	85.86
#1	.0672	-.0027	-.2659	-5.939	-6.406	9.828
#2	.0928	-.0503	-.2517	-5.988	3.720	.3038
#3	.0453	-.1079	-.4224	-6.092	1.372	13.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0091**	**-.2017**	**-19.70**	**-.0473**	**1.864**	**-.3621**
Stddev	1.410	.0181	3.75	.0725	.523	.6123
%RSD	15430.	8.993	19.04	153.2	28.09	169.1
#1	-1.592	-.1861	-24.04	.0284	1.970	.3228
#2	1.109	-.1973	-17.56	-.1160	2.325	-.5527
#3	.4558	-.2216	-17.51	-.0543	1.295	-.8565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MISCUP Acquired: 4/16/2018 13:20:17 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-6.391**	**4.989**	**-.5663**	**-.0426**	**-31.54**	**-.7485**
Stddev	.188	.982	.1178	.0114	.10	.1344
%RSD	2.942	19.68	20.81	26.73	.3307	17.96
#1	-6.201	5.516	-.5975	-.0312	-31.65	-.8287
#2	-6.394	3.856	-.4360	-.0426	-31.53	-.8234
#3	-6.577	5.594	-.6654	-.0539	-31.44	-.5933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3556**	**-.2035**	**-.9675**	F **-394.8**
Stddev	.1709	.0768	.0350	2.8
%RSD	48.05	37.75	3.620	.7079
#1	.1583	-.1228	-.9297	-396.7
#2	.4511	-.2120	-.9989	-396.1
#3	.4573	-.2757	-.9740	-391.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**22951.**	**200750.**	**19238.**
Stddev	32.	2565.	332.
%RSD	.13994	1.2779	1.7243
#1	22976.	203660.	18859.
#2	22914.	198830.	19477.
#3	22962.	199760.	19378.

Sample Name: 460-153677-e-1-c Acquired: 4/16/2018 13:32:38 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**67.49**	**3.685**	**-.0456**	**130.7**	**.4416**	**4120.**
Stddev	11.59	.701	.3073	1.1	.1315	38.
%RSD	17.18	19.03	674.3	.8175	29.79	.9323
#1	75.59	2.914	-.0240	131.9	.3517	4129.
#2	72.67	3.856	-.3631	129.8	.5926	4078.
#3	54.21	4.286	.2504	130.3	.3805	4153.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2577**	**3.537**	**.5663**	**20.23**	**756.6**	**2029.**
Stddev	.0962	.114	.2925	.33	11.7	24.
%RSD	37.35	3.210	51.66	1.644	1.541	1.191
#1	.3199	3.662	.3111	20.57	768.1	2040.
#2	.1468	3.510	.8855	19.91	744.8	2001.
#3	.3063	3.440	.5022	20.21	756.9	2046.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**494.2**	**773.8**	F **274700.**	**6.603**	**51.74**	**1.069**
Stddev	8.6	7.4	1513.	.313	1.50	1.415
%RSD	1.739	.9529	.5509	4.743	2.892	132.4
#1	496.8	775.1	276000.	6.685	53.47	-.4407
#2	484.6	765.8	273000.	6.257	50.89	1.281
#3	501.2	780.4	275000.	6.867	50.87	2.365
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-e-1-c Acquired: 4/16/2018 13:32:38 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.411**	**1.396**	**-.4558**	**57.35**	**16.04**	**-.8273**
Stddev	.660	1.637	.0561	.36	.77	.0525
%RSD	27.39	117.2	12.31	.6304	4.825	6.349
#1	-2.219	-.3486	-.3921	57.76	16.53	-.8300
#2	-3.145	1.639	-.4980	57.17	15.15	-.8785
#3	-1.867	2.898	-.4773	57.11	16.45	-.7735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.8819**	**40.00**	**.5956**	**301.4**
Stddev	.1311	.25	.0358	11.6
%RSD	14.86	.6371	6.014	3.862
#1	1.019	39.71	.5866	314.8
#2	.7575	40.14	.6351	295.4
#3	.8695	40.16	.5652	294.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8167.9**	**76801.**	**9815.7**
Stddev	35.6	589.	2.4
%RSD	.43597	.76710	.02438
#1	8128.3	76692.	9818.2
#2	8197.3	77438.	9813.4
#3	8178.1	76275.	9815.5

Sample Name: CCV Acquired: 4/16/2018 13:57:03 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**121400.**	**2454.**	**1226.**	**9944.**	**969.9**	**122800.**
Stddev	1154.	18.	8.	88.	8.9	453.
%RSD	.9503	.7334	.6872	.8836	.9148	.3686
#1	120300.	2443.	1218.	9887.	960.7	122600.
#2	121300.	2444.	1225.	9899.	970.5	122500.
#3	122600.	2475.	1235.	10050.	978.5	123300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1234.**	**2474.**	**4925.**	**12320.**	**98440.**	**49560.**
Stddev	10.	20.	21.	112.	515.	565.
%RSD	.7800	.7924	.4351	.9117	.5226	1.140
#1	1228.	2462.	4912.	12200.	98200.	49000.
#2	1229.	2464.	4913.	12330.	98090.	49550.
#3	1245.	2497.	4950.	12430.	99030.	50130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**122200.**	**5005.**	**123200.**	**2480.**	**7418.**	**978.9**
Stddev	508.	23.	1684.	22.	48.	10.2
%RSD	.4157	.4601	1.367	.8716	.6496	1.044
#1	121900.	4991.	121500.	2467.	7388.	969.9
#2	121800.	4992.	123200.	2469.	7392.	976.7
#3	122700.	5032.	124900.	2505.	7474.	990.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 13:57:03 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2472.**	**2498.**	**2457.**	**2470.**	**987.1**	**2466.**
Stddev	20.	22.	12.	14.	12.9	21.
%RSD	.8122	.8766	.4951	.5640	1.305	.8322
#1	2452.	2482.	2448.	2469.	975.3	2451.
#2	2471.	2489.	2453.	2456.	985.1	2458.
#3	2492.	2523.	2471.	2484.	1001.	2489.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**985.2**	**4922.**	**9947.**	**9409.**
Stddev	6.6	56.	124.	147.
%RSD	.6721	1.133	1.242	1.563
#1	982.8	4867.	9874.	9266.
#2	980.2	4922.	9877.	9402.
#3	992.7	4979.	10090.	9560.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7895.5**	**76289.**	**9829.8**
Stddev	48.1	243.	40.0
%RSD	.60861	.31813	.40726
#1	7916.1	76165.	9784.8
#2	7929.8	76569.	9861.6
#3	7840.5	76134.	9842.9

Sample Name: 460-153677-d-7-b Acquired: 4/16/2018 14:08:41 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**46.18**	**4.755**	**.0870**	**108.0**	**.1579**	**24340.**
Stddev	1.33	1.350	.7284	.6	.0856	152.
%RSD	2.882	28.40	836.8	.5991	54.23	.6259
#1	46.96	5.645	-.5070	107.3	.0594	24300.
#2	46.94	3.201	.8997	108.0	.1996	24210.
#3	44.64	5.418	-.1316	108.6	.2148	24500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.497**	**4.869**	**1.261**	**28.79**	**400.2**	**552.4**
Stddev	.029	.106	.296	.48	3.3	9.7
%RSD	1.903	2.179	23.50	1.653	.8345	1.754
#1	1.528	4.829	1.534	28.94	398.3	562.3
#2	1.493	4.789	.9457	28.26	398.2	543.0
#3	1.471	4.990	1.303	29.18	404.0	552.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**868.2**	**1190.**	F **285400.**	**11.25**	**171.9**	**.1624**
Stddev	8.2	7.	4829.	.05	1.3	.6676
%RSD	.9395	.6230	1.692	.4625	.7346	411.1
#1	873.9	1186.	290900.	11.31	171.7	-.4568
#2	858.8	1186.	283400.	11.21	170.7	.8696
#3	871.8	1199.	281900.	11.22	173.2	.0744
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-d-7-b Acquired: 4/16/2018 14:08:41 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.632**	**-.7593**	**-.5530**	**121.9**	**14.19**	**-.1334**
Stddev	1.742	1.366	.3416	1.2	.23	.1443
%RSD	106.7	179.9	61.77	.9759	1.622	108.1
#1	.3726	-.9571	-.9420	120.7	14.24	-.1749
#2	-2.492	.6947	-.4148	121.9	13.94	.0271
#3	-2.776	-2.015	-.3021	123.0	14.39	-.2525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.026**	**63.49**	**1.923**	**320.6**
Stddev	.164	.57	.040	11.2
%RSD	15.96	.8983	2.079	3.479
#1	.8377	63.57	1.878	308.6
#2	1.135	62.88	1.955	322.5
#3	1.105	64.01	1.935	330.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8146.2**	**76942.**	**9858.2**
Stddev	53.0	365.	74.4
%RSD	.65084	.47392	.75449
#1	8188.8	77032.	9863.2
#2	8162.8	77253.	9930.0
#3	8086.8	76541.	9781.5

Sample Name: CCB Acquired: 4/16/2018 14:00:45 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.938**	**1.685**	**-.1981**	**.1835**	**.0245**	**2.890**
Stddev	16.70	.595	.3554	.1516	.1925	7.215
%RSD	240.8	35.29	179.4	82.60	786.2	249.7
#1	26.22	2.339	.1446	.3583	.2458	9.762
#2	-2.987	1.538	-.1738	.1023	-.1037	3.532
#3	-2.422	1.178	-.5650	.0898	-.0687	-4.625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0058**	**.0864**	**.0132**	**.3348**	**9.916**	**31.87**
Stddev	.0564	.0081	.2422	.4429	9.154	29.15
%RSD	976.4	9.432	1839.	132.3	92.31	91.47
#1	.0602	.0877	-.1443	.7891	11.63	50.57
#2	.0094	.0777	-.1083	.3107	18.09	-1.719
#3	-.0523	.0938	.2921	-.0956	.0269	46.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.866**	**.1494**	**144.1**	**-.0763**	**.9199**	**1.317**
Stddev	3.120	.2008	31.9	.1162	1.209	2.293
%RSD	35.20	134.4	22.18	152.2	131.5	174.1
#1	11.15	.3617	180.9	.0574	.3336	3.585
#2	10.13	.1240	127.9	-.1529	.1154	1.369
#3	5.311	-.0374	123.4	-.1335	2.311	-1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 14:00:45 Type: QC
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.268**	**.5514**	**-.1935**	**.0662**	**2.287**	**1.786**
Stddev	1.058	1.080	.2171	.1901	.247	.719
%RSD	83.48	195.8	112.2	286.9	10.81	40.25
#1	2.138	.7602	-.3355	.1817	2.002	2.571
#2	.0895	-.6175	.0564	.1702	2.425	1.628
#3	1.576	1.511	-.3015	-.1531	2.435	1.160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.2991**	**.2538**	**1.637**	**-9.593**
Stddev	.2754	.3306	1.031	3.077
%RSD	92.09	130.3	63.01	32.08
#1	.0161	.6304	2.767	-7.503
#2	.5662	.1197	1.396	-13.13
#3	.3149	.0113	.7473	-8.149
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8497.4**	**81477.**	**9953.8**
Stddev	36.0	157.	32.6
%RSD	.42359	.19258	.32701
#1	8538.2	81451.	9926.8
#2	8469.8	81335.	9944.6
#3	8484.3	81645.	9989.9

Sample Name: 460-153708-m-2-b@5 Acquired: 4/16/2018 14:25:01 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**32.48**	**2.293**	**.1761**	**54.73**	**.0362**	**6369.**
Stddev	.91	.466	.1985	.61	.0799	36.
%RSD	2.816	20.30	112.7	1.109	220.5	.5655
#1	31.76	2.037	.2842	54.13	-.0330	6389.
#2	33.51	2.831	-.0530	55.34	.0181	6392.
#3	32.16	2.013	.2969	54.73	.1237	6328.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1317**	**2.208**	**-.0562**	**16.81**	**31.09**	**514.5**
Stddev	.0429	.088	.2888	.32	1.66	14.5
%RSD	32.56	3.971	514.1	1.904	5.338	2.819
#1	.1790	2.306	.2037	16.82	32.46	526.3
#2	.1205	2.183	-.0051	17.12	31.58	518.9
#3	.0954	2.136	-.3671	16.48	29.25	498.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**481.0**	**281.2**	F **283200.**	**3.588**	**6.817**	**1.337**
Stddev	5.9	1.0	2500.	.439	.440	1.126
%RSD	1.234	.3728	.8830	12.22	6.454	84.17
#1	487.3	281.7	286000.	3.489	6.361	1.284
#2	475.6	281.8	281300.	3.207	6.851	2.489
#3	480.0	280.0	282300.	4.067	7.239	.2396
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153708-m-2-b@5 Acquired: 4/16/2018 14:25:01 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.100**	**-.5402**	**-.4445**	**8.723**	**26.81**	**-.5099**
Stddev	1.591	.3040	.3168	.175	.16	.2293
%RSD	38.81	56.27	71.26	2.002	.5980	44.97
#1	-3.800	-.4503	-.3923	8.606	26.63	-.7529
#2	-5.820	-.2913	-.7842	8.924	26.93	-.4792
#3	-2.681	-.8790	-.1571	8.640	26.87	-.2974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.4908**	**26.73**	**.3754**	**311.5**
Stddev	.2010	.20	.1873	9.8
%RSD	40.95	.7650	49.90	3.130
#1	.5178	26.96	.5554	302.5
#2	.6770	26.61	.3894	321.9
#3	.2777	26.61	.1815	310.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8122.3**	**76426.**	**9633.6**
Stddev	31.9	367.	20.6
%RSD	.39325	.48060	.21428
#1	8153.4	76088.	9612.8
#2	8089.6	76374.	9654.1
#3	8123.9	76817.	9633.9

Sample Name: 460-153708-m-1-b Acquired: 4/16/2018 14:20:56 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34.06**	**1.024**	**.3872**	**47.17**	**.0320**	**6503.**
Stddev	7.85	1.083	.2049	.15	.0722	71.
%RSD	23.05	105.8	52.91	.3200	225.6	1.094
#1	42.86	.7727	.5325	47.01	-.0391	6423.
#2	31.55	.0882	.4763	47.31	.1053	6525.
#3	27.77	2.211	.1529	47.20	.0298	6560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2557**	**.4438**	**-.2935**	**211.5**	**31.78**	**491.7**
Stddev	.0645	.0280	.3520	1.9	4.28	27.6
%RSD	25.23	6.315	119.9	.8752	13.46	5.619
#1	.3268	.4585	.0766	213.6	32.36	460.2
#2	.2009	.4615	-.6242	210.2	27.24	512.0
#3	.2393	.4115	-.3329	210.7	35.74	502.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**728.5**	**63.61**	F **280400.**	**3.391**	**6.589**	**-.6385**
Stddev	2.8	.32	5940.	.267	.776	1.276
%RSD	.3796	.5047	2.118	7.883	11.77	199.8
#1	726.5	63.68	279000.	3.689	5.888	-1.738
#2	727.4	63.27	275300.	3.172	6.456	.7603
#3	731.7	63.90	286900.	3.313	7.422	-.9379
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153708-m-1-b Acquired: 4/16/2018 14:20:56 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.122**	**-.8328**	**-.3128**	**33.72**	**17.21**	**-.5342**
Stddev	1.378	.7071	.3263	.35	.51	.0835
%RSD	64.97	84.91	104.3	1.029	2.958	15.63
#1	-3.086	-.4959	-.4454	33.55	17.79	-.4766
#2	-.5429	-1.645	-.5519	34.12	16.99	-.6299
#3	-2.736	-.3570	.0590	33.49	16.84	-.4960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7947**	**33.46**	**1.361**	**383.1**
Stddev	.1378	.13	.195	21.9
%RSD	17.35	.4026	14.33	5.730
#1	.6504	33.61	1.229	367.1
#2	.9250	33.35	1.585	408.1
#3	.8088	33.41	1.270	374.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8130.9**	**76475.**	**9634.1**
Stddev	40.5	755.	242.9
%RSD	.49807	.98726	2.5215
#1	8172.3	77339.	9897.9
#2	8091.4	76142.	9584.9
#3	8128.9	75943.	9419.6

Sample Name: 460-153736-h-1-b@5 Acquired: 4/16/2018 14:33:11 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2014.**	**2.661**	**.0971**	**53.35**	**.2349**	**1685.**
Stddev	25.	.810	.1910	.46	.0428	22.
%RSD	1.217	30.45	196.8	.8698	18.21	1.279
#1	1990.	2.645	-.1223	52.98	.2311	1667.
#2	2012.	3.478	.1868	53.19	.1941	1679.
#3	2039.	1.858	.2267	53.87	.2794	1709.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0070**	**4.683**	**2.353**	**2.377**	**1701.**	**525.4**
Stddev	.0484	.083	.119	.239	36.	23.2
%RSD	689.2	1.781	5.056	10.04	2.096	4.410
#1	-.0348	4.594	2.429	2.638	1664.	498.7
#2	.0489	4.697	2.413	2.169	1703.	537.0
#3	-.0352	4.759	2.216	2.325	1735.	540.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**686.1**	**463.2**	**244400.**	**3.248**	**3.372**	**.4223**
Stddev	6.6	5.0	1343.	.675	1.168	.5588
%RSD	.9604	1.078	.5495	20.79	34.65	132.3
#1	682.3	459.3	245600.	2.649	2.162	1.017
#2	682.2	461.4	243000.	3.980	3.460	-.0912
#3	693.7	468.8	244600.	3.115	4.494	.3408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153736-h-1-b@5 Acquired: 4/16/2018 14:33:11 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.619**	**-.7065**	**2.789**	**9.696**	**33.49**	**-.6482**
Stddev	2.423	.8297	.102	.214	.30	.0736
%RSD	92.52	117.4	3.641	2.204	.8945	11.36
#1	-.5848	-1.528	2.685	9.488	33.18	-.7045
#2	-1.972	.1308	2.794	9.684	33.50	-.5649
#3	-5.300	-.7217	2.888	9.915	33.78	-.6752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.015**	**9.469**	**43.43**	**2251.**
Stddev	.250	.072	.63	21.
%RSD	24.61	.7632	1.440	.9547
#1	.9365	9.498	42.75	2226.
#2	.8141	9.386	43.98	2267.
#3	1.295	9.522	43.55	2259.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8165.8**	**77047.**	**9683.8**
Stddev	83.3	1052.	178.5
%RSD	1.0202	1.3649	1.8438
#1	8247.6	77856.	9771.5
#2	8168.7	77427.	9801.5
#3	8081.1	75859.	9478.3

Sample Name: 460-153677-d-8-b Acquired: 4/16/2018 14:12:45 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.971**	**1.621**	**-.1733**	**108.4**	**.0724**	**7199.**
Stddev	7.472	.245	.4198	.7	.0265	34.
%RSD	107.2	15.13	242.2	.6775	36.64	.4722
#1	13.96	1.528	-.4401	107.9	.0420	7187.
#2	-.9024	1.436	-.3904	108.0	.0909	7173.
#3	7.854	1.899	.3106	109.2	.0843	7238.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4213**	**.9458**	**.0689**	**4.598**	**39.54**	**531.6**
Stddev	.0359	.1089	.3468	.088	4.24	31.5
%RSD	8.522	11.51	503.2	1.905	10.72	5.933
#1	.3802	.9125	.0676	4.650	42.18	532.7
#2	.4370	1.067	-.2772	4.497	34.65	499.6
#3	.4467	.8574	.4163	4.648	41.78	562.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**749.0**	**131.5**	F **275900.**	**5.900**	**46.37**	**1.488**
Stddev	2.3	.7	2067.	.088	1.05	1.969
%RSD	.3045	.5107	.7490	1.489	2.271	132.4
#1	749.6	131.8	278300.	5.801	45.30	3.762
#2	746.4	130.7	274400.	5.966	46.41	.3590
#3	750.9	132.0	275000.	5.935	47.41	.3422
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-153677-d-8-b Acquired: 4/16/2018 14:12:45 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.194**	**1.249**	**-.3348**	**30.65**	**26.57**	**-.2927**
Stddev	2.080	.521	.2425	.20	.25	.2257
%RSD	49.60	41.67	72.43	.6401	.9223	77.13
#1	-1.879	.7990	-.5849	30.50	26.29	-.0330
#2	-4.794	1.130	-.3186	30.57	26.71	-.4423
#3	-5.907	1.819	-.1008	30.87	26.72	-.4026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.6744**	**43.58**	**.3704**	**658.7**
Stddev	.5140	.32	.0760	15.8
%RSD	76.22	.7344	20.52	2.399
#1	.6643	43.39	.4571	670.3
#2	1.193	43.40	.3387	640.7
#3	.1655	43.95	.3154	665.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8168.9**	**76786.**	**9785.3**
Stddev	29.8	199.	26.2
%RSD	.36498	.25978	.26789
#1	8178.5	76999.	9804.9
#2	8192.7	76757.	9795.4
#3	8135.5	76603.	9755.5

Sample Name: lb 460-511103/1-b@5 Acquired: 4/16/2018 14:45:29 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-11.02**	**.8469**	**.3122**	**-.2614**	**-.0540**	**-28.69**
Stddev	4.05	.5777	.4138	.1007	.0553	1.98
%RSD	36.72	68.22	132.5	38.54	102.4	6.896
#1	-6.962	.3605	-.0650	-.3665	-.1169	-29.42
#2	-15.05	.6946	.7548	-.2519	-.0131	-26.45
#3	-11.04	1.485	.2467	-.1657	-.0319	-30.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0503**	**-.1004**	**-.1647**	**.0433**	**25.65**	**61.79**
Stddev	.0179	.0614	.1679	.3130	6.00	11.37
%RSD	35.65	61.18	102.0	722.2	23.39	18.40
#1	-.0593	-.0729	-.0875	.2044	32.03	52.38
#2	-.0296	-.0575	-.3573	.2430	20.13	58.57
#3	-.0619	-.1708	-.0491	-.3174	24.78	74.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.382**	**-.1076**	F **293500.**	**3.779**	**.5658**	**-.4977**
Stddev	5.434	.0654	7815.	.160	.7152	.8847
%RSD	228.1	60.80	2.663	4.242	126.4	177.8
#1	8.655	-.1651	302500.	3.647	.2843	-.9627
#2	-.6270	-.1212	288800.	3.734	.0342	-1.053
#3	-.8821	-.0364	289100.	3.958	1.379	.5225
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: lb 460-511103/1-b@5 Acquired: 4/16/2018 14:45:29 Type: Unk
Method: MC04092018(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.096**	**-.6362**	**-.4032**	**.3400**	**7.109**	**-.5794**
Stddev	2.080	.5139	.3467	.0989	.474	.1302
%RSD	99.23	80.77	85.99	29.09	6.667	22.47
#1	-3.648	-.8094	-.3149	.3226	6.914	-.6562
#2	-2.908	-.0581	-.7856	.4464	7.649	-.6529
#3	.2672	-1.041	-.1092	.2509	6.763	-.4291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.9480**	**-.0369**	**-.8172**	**23.01**
Stddev	.1527	.1763	.0949	13.41
%RSD	16.11	477.5	11.61	58.27
#1	.9948	.1029	-.9267	16.96
#2	.7774	.0212	-.7586	13.69
#3	1.072	-.2349	-.7664	38.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8089.4**	**75752.**	**9487.5**
Stddev	26.6	384.	89.5
%RSD	.32859	.50633	.94331
#1	8088.1	75686.	9564.9
#2	8063.5	75406.	9389.5
#3	8116.6	76164.	9508.0

Sample Name: mb 460-511266/1-a Acquired: 4/16/2018 15:22:44 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-14.13**	**.5376**	**.1111**	**-.2852**	**-.1140**	**-4.819**
Stddev	6.23	1.325	.3235	.0810	.0524	1.845
%RSD	44.08	246.4	291.2	28.40	45.98	38.28
#1	-9.606	1.805	-.1804	-.2687	-.0538	-4.870
#2	-21.23	-.8378	.4592	-.3732	-.1493	-6.638
#3	-11.54	.6460	.0545	-.2137	-.1389	-2.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0497**	**-.0764**	**-.0628**	**-.5515**	**-.7839**	**12.41**
Stddev	.0678	.1148	.4573	.0470	3.789	8.39
%RSD	136.4	150.2	727.8	8.530	483.3	67.63
#1	-.1015	-.1555	-.1994	-.5204	-2.030	14.34
#2	-.0746	.0552	.4471	-.6056	-3.793	3.218
#3	.0270	-.1289	-.4363	-.5284	3.471	19.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.439**	**-.1486**	**36.63**	**.2940**	**.1331**	**.1161**
Stddev	1.799	.0413	4.89	.5681	.5120	1.285
%RSD	125.0	27.77	13.35	193.2	384.5	1107.
#1	-.3955	-.1897	34.15	.9151	.6351	.5515
#2	1.514	-.1491	33.47	-.1992	.1526	-1.330
#3	3.199	-.1071	42.26	.1661	-.3883	1.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-511266/1-a Acquired: 4/16/2018 15:22:44 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.097**	**2.093**	**-.2976**	**-.1162**	**1.456**	**-.1428**
Stddev	2.346	.881	.4479	.0688	.221	.0769
%RSD	111.9	42.11	150.5	59.19	15.18	53.86
#1	.4161	1.373	-.2149	-.0409	1.578	-.1098
#2	-4.231	1.830	.1032	-.1321	1.589	-.0879
#3	-2.475	3.075	-.7810	-.1757	1.201	-.2307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.1490**	**-.1632**	**-.5596**	**-10.63**
Stddev	.3333	.0537	.1118	6.43
%RSD	223.7	32.93	19.97	60.50
#1	-.0642	-.1804	-.6113	-11.96
#2	.5331	-.1029	-.4313	-3.636
#3	-.0219	-.2062	-.6361	-16.29
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8484.1**	**81789.**	**9973.7**
Stddev	45.3	170.	82.5
%RSD	.53435	.20802	.82730
#1	8534.7	81717.	9889.6
#2	8447.0	81667.	9977.0
#3	8470.7	81984.	10055.

Sample Name: CCV Acquired: 4/16/2018 15:11:05 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**121800.**	**2456.**	**1223.**	**9913.**	**981.3**	**123200.**
Stddev	125.	3.	4.	6.	1.0	107.
%RSD	.1025	.1294	.3110	.0607	.1005	.0866
#1	121700.	2454.	1218.	9906.	982.4	123200.
#2	121900.	2460.	1225.	9918.	980.6	123400.
#3	121700.	2455.	1225.	9914.	980.9	123100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1235.**	**2490.**	**4918.**	**12280.**	**99390.**	**49920.**
Stddev	.	3.	6.	30.	101.	95.
%RSD	.0371	.1148	.1176	.2469	.1013	.1910
#1	1235.	2488.	4912.	12240.	99280.	49810.
#2	1234.	2493.	4924.	12290.	99480.	49990.
#3	1235.	2490.	4919.	12300.	99400.	49950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124000.**	**5034.**	**125800.**	**2490.**	**7415.**	**972.3**
Stddev	125.	4.	283.	4.	7.	6.2
%RSD	.1010	.0782	.2249	.1480	.1007	.6400
#1	123900.	5030.	126000.	2486.	7407.	968.1
#2	124200.	5038.	125900.	2494.	7414.	979.5
#3	124000.	5035.	125500.	2491.	7422.	969.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 15:11:05 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2479.**	**2518.**	**2465.**	**2503.**	**982.3**	**2475.**
Stddev	13.	2.	3.	2.	3.3	5.
%RSD	.5340	.0781	.1211	.0818	.3404	.1820
#1	2470.	2519.	2462.	2505.	978.5	2469.
#2	2494.	2520.	2468.	2501.	985.0	2477.
#3	2473.	2516.	2465.	2502.	983.3	2477.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**993.7**	**4940.**	**9929.**	**9373.**
Stddev	2.7	10.	19.	68.
%RSD	.2755	.2048	.1923	.7290
#1	992.3	4934.	9907.	9325.
#2	996.8	4951.	9944.	9451.
#3	992.0	4934.	9934.	9342.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7827.9**	**75959.**	**9686.5**
Stddev	2.9	8.	75.4
%RSD	.03726	.01101	.77874
#1	7824.6	75950.	9612.3
#2	7829.8	75963.	9763.1
#3	7829.4	75965.	9684.0

Sample Name: lcs 460-511266/2-a Acquired: 4/16/2018 15:26:44 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1963.**	**1923.**	**47.87**	**2033.**	**49.86**	**19620.**
Stddev	8.	6.	.21	8.	.24	91.
%RSD	.4046	.3379	.4310	.3900	.4723	.4653
#1	1969.	1930.	48.03	2040.	49.71	19680.
#2	1967.	1921.	47.64	2035.	50.13	19660.
#3	1954.	1918.	47.94	2025.	49.73	19510.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.55**	**510.1**	**204.3**	**238.6**	**987.8**	**19870.**
Stddev	.10	2.4	1.0	2.0	14.6	32.
%RSD	.1996	.4757	.4997	.8517	1.483	.1611
#1	50.67	512.5	205.3	239.2	994.9	19890.
#2	50.50	510.3	204.5	240.3	997.6	19890.
#3	50.49	507.6	203.2	236.4	971.0	19830.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19330.**	**524.1**	**20640.**	**505.6**	**508.3**	**485.6**
Stddev	92.	2.1	46.	3.1	2.6	2.6
%RSD	.4765	.3973	.2212	.6170	.5147	.5417
#1	19410.	525.4	20600.	508.9	511.4	486.7
#2	19350.	525.2	20690.	505.4	506.9	487.6
#3	19230.	521.7	20630.	502.6	506.8	482.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: lcs 460-511266/2-a Acquired: 4/16/2018 15:26:44 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1923.**	**2090.**	**499.0**	**521.1**	**507.7**	**500.4**
Stddev	10.	11.	3.0	2.1	2.8	2.7
%RSD	.5192	.5176	.5967	.4010	.5451	.5386
#1	1930.	2096.	501.2	523.3	510.1	502.6
#2	1927.	2095.	500.3	520.9	508.4	501.2
#3	1911.	2077.	495.6	519.1	504.7	497.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**502.9**	**497.9**	**513.3**	**272.9**
Stddev	3.5	1.1	1.0	4.4
%RSD	.6956	.2180	.1906	1.624
#1	506.9	496.6	513.8	269.1
#2	501.4	498.4	513.9	277.8
#3	500.3	498.6	512.2	271.7
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8275.1**	**79800.**	**9735.9**
Stddev	41.9	560.	57.4
%RSD	.50614	.70171	.58993
#1	8228.2	79321.	9716.8
#2	8288.2	79662.	9690.4
#3	8308.8	80416.	9800.4

Sample Name: CCB Acquired: 4/16/2018 15:14:48 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.860**	**1.659**	**.0903**	**.1609**	**.0745**	**1.755**
Stddev	10.59	.539	.0643	.3157	.0574	5.434
%RSD	569.1	32.47	71.25	196.2	77.04	309.6
#1	11.06	1.161	.1344	.5223	.1366	8.005
#2	4.233	1.586	.1199	-.0609	.0634	-.8892
#3	-9.712	2.231	.0165	.0212	.0234	-1.850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0430**	**-.0363**	**-.0015**	**.1544**	**12.62**	**26.99**
Stddev	.1004	.0901	.4196	.7577	5.00	8.63
%RSD	233.2	248.0	27560.	490.7	39.63	31.98
#1	.0485	.0521	.0727	.9326	10.98	17.03
#2	-.0272	-.0332	.3760	.1114	18.23	32.23
#3	-.1504	-.1279	-.4533	-.5809	8.646	31.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.716**	**.0653**	**81.73**	**.1164**	**.8939**	**-.5040**
Stddev	5.306	.3168	22.88	.1316	1.008	1.007
%RSD	54.61	484.8	28.00	113.1	112.8	199.8
#1	15.84	.4303	107.9	.0103	-.2399	-.3554
#2	6.426	-.0952	71.56	.2637	1.691	.4203
#3	6.885	-.1390	65.70	.0751	1.231	-1.577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 15:14:48 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.222**	**1.568**	**-.1538**	**-.0187**	**1.854**	**1.809**
Stddev	.992	2.446	.2539	.0408	.560	.545
%RSD	81.18	155.9	165.1	218.8	30.22	30.12
#1	1.912	2.900	-.0038	.0113	2.472	2.364
#2	.0853	-1.254	-.4469	-.0021	1.709	1.788
#3	1.667	3.059	-.0107	-.0652	1.380	1.275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0605**	**.1682**	**1.421**	**.3712**
Stddev	.4427	.3909	1.169	9.692
%RSD	731.3	232.4	82.30	2611.
#1	-.4431	.5901	2.751	7.631
#2	.2365	.0963	.9544	4.118
#3	.3883	-.1817	.5565	-10.63
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8418.1**	**81413.**	**9973.5**
Stddev	15.8	128.	21.5
%RSD	.18826	.15759	.21578
#1	8401.3	81306.	9949.8
#2	8432.8	81378.	9991.9
#3	8420.2	81555.	9978.7

Sample Name: 460-153929-f-1-a Acquired: 4/16/2018 15:41:26 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6691**	**2.121**	**-.1423**	**186.8**	**.0801**	**12550.**
Stddev	8.623	1.420	.1228	1.1	.0655	139.
%RSD	1289.	66.94	86.29	.5831	81.83	1.109
#1	8.562	3.327	-.1076	186.3	.0056	12390.
#2	1.979	2.480	-.0406	186.1	.1057	12660.
#3	-8.534	.5561	-.2788	188.1	.1289	12590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1482**	**33.58**	**1.685**	**-.1354**	**14450.**	**3213.**
Stddev	.0277	.30	.077	.0690	155.	39.
%RSD	18.70	.8836	4.551	50.99	1.072	1.199
#1	-.1320	33.27	1.638	-.1227	14280.	3169.
#2	-.1803	33.59	1.773	-.0736	14560.	3235.
#3	-.1325	33.86	1.643	-.2099	14530.	3235.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6027.**	**1556.**	**21630.**	**.7984**	**.7818**	**-1.502**
Stddev	100.	16.	161.	.2202	.8022	.351
%RSD	1.657	1.031	.7451	27.58	102.6	23.40
#1	5913.	1537.	21460.	.9394	1.701	-1.484
#2	6073.	1566.	21780.	.9110	.4220	-1.159
#3	6096.	1564.	21660.	.5447	.2224	-1.861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153929-f-1-a Acquired: 4/16/2018 15:41:26 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.518**	**1.428**	**-.6802**	**10.67**	**15.27**	**-.2333**
Stddev	1.092	1.571	.0192	.14	.68	.1427
%RSD	71.93	110.0	2.825	1.310	4.432	61.16
#1	1.057	-.3860	-.6781	10.72	15.94	-.0703
#2	2.765	2.308	-.6622	10.78	14.58	-.2942
#3	.7323	2.362	-.7005	10.52	15.29	-.3354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1206**	**131.2**	**.4328**	**3912.**
Stddev	.0781	1.0	.0941	1.
%RSD	64.77	.7406	21.75	.0154
#1	-.0680	130.2	.4268	3913.
#2	-.0835	132.2	.3418	3912.
#3	-.2104	131.2	.5298	3913.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8328.5**	**80993.**	**9922.6**
Stddev	32.1	697.	147.2
%RSD	.38594	.86058	1.4839
#1	8357.1	81761.	10087.
#2	8334.6	80401.	9801.9
#3	8293.7	80817.	9879.2

Sample Name: 460-153929-a-1-a du Acquired: 4/16/2018 15:37:31 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.971**	**3.530**	**.1875**	**190.2**	**.0319**	**12800.**
Stddev	3.094	.869	.3819	2.1	.0865	98.
%RSD	31.03	24.61	203.7	1.102	271.2	.7676
#1	-7.899	4.450	.5994	187.9	.0177	12730.
#2	-13.53	3.416	.1178	190.7	.1246	12760.
#3	-8.486	2.723	-.1548	192.0	-.0466	12910.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2592**	**34.30**	**1.430**	**-.0908**	**14720.**	**3329.**
Stddev	.0717	.21	.195	.3678	110.	34.
%RSD	27.67	.6013	13.63	405.3	.7470	1.011
#1	-.1878	34.07	1.373	-.5141	14670.	3293.
#2	-.2586	34.34	1.647	.0910	14650.	3333.
#3	-.3312	34.48	1.270	.1508	14850.	3360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6191.**	**1587.**	**22150.**	**1.110**	**1.053**	**-.3299**
Stddev	80.	13.	162.	.272	.301	.8123
%RSD	1.288	.8375	.7304	24.50	28.59	246.2
#1	6107.	1577.	21990.	1.093	.7163	.3046
#2	6199.	1582.	22140.	1.390	1.146	-.0490
#3	6266.	1602.	22310.	.8469	1.296	-1.245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153929-a-1-a du Acquired: 4/16/2018 15:37:31 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.289**	**2.935**	**-.5435**	**10.42**	**14.59**	**.1668**
Stddev	.094	.527	.0622	.28	.30	.1162
%RSD	4.118	17.96	11.45	2.645	2.085	69.63
#1	2.302	2.643	-.4992	10.74	14.94	.2755
#2	2.189	2.620	-.6146	10.21	14.48	.0444
#3	2.377	3.544	-.5166	10.32	14.36	.1807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.2348**	**134.4**	**.7409**	**4055.**
Stddev	.3581	.7	.0573	33.
%RSD	152.5	.5297	7.734	.8137
#1	.1787	133.7	.8064	4024.
#2	-.4388	134.4	.7160	4089.
#3	-.4442	135.1	.7002	4051.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8307.3**	**80538.**	**9922.5**
Stddev	47.6	605.	58.8
%RSD	.57305	.75096	.59289
#1	8358.2	80969.	9956.3
#2	8299.6	80798.	9956.6
#3	8263.9	79846.	9854.6

Sample Name: 460-153666-i-10-a Acquired: 4/16/2018 15:56:56 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.167**	**8.148**	**.2052**	**23.80**	**-.0383**	**19150.**
Stddev	14.05	.149	.2267	.14	.0291	142.
%RSD	337.3	1.827	110.5	.5688	75.99	.7391
#1	11.21	8.316	.0398	23.80	-.0116	19300.
#2	-7.372	8.095	.1120	23.94	-.0340	19110.
#3	-16.34	8.033	.4636	23.66	-.0693	19030.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5892**	**2.480**	**1.151**	**1.719**	**116200.**	**7002.**
Stddev	.1679	.150	.118	.183	850.	104.
%RSD	28.49	6.041	10.22	10.65	.7315	1.491
#1	-.7828	2.539	1.270	1.909	117100.	7122.
#2	-.4843	2.309	1.035	1.543	116000.	6934.
#3	-.5005	2.591	1.148	1.704	115400.	6949.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16160.**	**596.0**	**70160.**	**2.953**	**3.089**	**-5.981**
Stddev	162.	3.7	323.	.409	1.364	1.044
%RSD	1.002	.6243	.4605	13.85	44.15	17.45
#1	16350.	599.8	70470.	2.732	2.561	-6.332
#2	16100.	595.8	70190.	2.702	4.638	-4.807
#3	16040.	592.4	69820.	3.425	2.068	-6.803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153666-i-10-a Acquired: 4/16/2018 15:56:56 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.903**	**4.645**	**-.2523**	**-.0243**	**40.39**	**.5298**
Stddev	1.384	.967	.3124	.1495	1.72	.2427
%RSD	72.72	20.81	123.8	614.6	4.269	45.81
#1	.4209	4.763	-.6013	.1344	42.38	.3179
#2	3.161	5.548	.0012	-.0448	39.56	.7945
#3	2.127	3.625	-.1568	-.1625	39.24	.4769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.6492**	**245.6**	**-2.155**	**1514.**
Stddev	.6428	.9	.127	21.
%RSD	99.02	.3823	5.897	1.367
#1	.0916	246.4	-2.209	1537.
#2	-1.061	245.9	-2.246	1496.
#3	-.9785	244.6	-2.009	1510.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8390.1**	**80784.**	**10216.**
Stddev	16.7	156.	57.
%RSD	.19956	.19303	.55423
#1	8403.1	80952.	10170.
#2	8395.8	80755.	10198.
#3	8371.2	80645.	10279.

Sample Name: SD 460-153929-f-1-a Acquired: 4/16/2018 15:45:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-8.625**	**-.4402**	**-.2004**	**37.93**	**-.0491**	**2590.**
Stddev	2.351	.5546	.1736	.40	.0411	15.
%RSD	27.26	126.0	86.65	1.046	83.68	.5701
#1	-6.961	.1933	-.1409	37.48	-.0814	2573.
#2	-7.601	-.6760	-.0643	38.07	-.0632	2594.
#3	-11.31	-.8380	-.3959	38.24	-.0028	2602.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0645**	**6.950**	**.1644**	**-.2632**	**3059.**	**686.5**
Stddev	.0417	.031	.5180	.2055	24.	36.6
%RSD	64.68	.4410	315.2	78.06	.7761	5.332
#1	-.0357	6.970	-.0392	-.4477	3050.	644.7
#2	-.0455	6.965	-.2210	-.3002	3041.	712.8
#3	-.1123	6.914	.7532	-.0418	3086.	701.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1263.**	**318.5**	**4472.**	**.5088**	**.5748**	**-1.034**
Stddev	8.	1.8	35.	.1684	.5139	1.624
%RSD	.6569	.5510	.7806	33.10	89.40	157.1
#1	1264.	316.5	4433.	.6799	1.064	-.7390
#2	1254.	319.6	4499.	.5033	.0395	-2.785
#3	1271.	319.4	4484.	.3432	.6207	.4226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: SD 460-153929-f-1-a Acquired: 4/16/2018 15:45:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0100**	**.2923**	**-.3134**	**2.176**	**5.142**	**-.2737**
Stddev	2.588	.1883	.4128	.087	.601	.0499
%RSD	26000.	64.42	131.7	3.978	11.69	18.25
#1	2.075	.3277	-.2197	2.078	5.311	-.2623
#2	-2.894	.4605	-.7650	2.243	4.474	-.2304
#3	.8488	.0888	.0445	2.207	5.640	-.3283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1996**	**27.36**	**-.5010**	**816.1**
Stddev	.0490	.55	.1234	4.2
%RSD	24.52	2.011	24.63	.5154
#1	-.1975	26.73	-.5207	815.5
#2	-.2496	27.57	-.6134	812.2
#3	-.1518	27.77	-.3689	820.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8407.3**	**81699.**	**10049.**
Stddev	32.1	343.	114.
%RSD	.38208	.41966	1.1327
#1	8441.2	82087.	10176.
#2	8403.2	81575.	9956.9
#3	8377.4	81436.	10013.

Sample Name: CCVL Acquired: 4/16/2018 15:18:50 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**173.6**	**13.43**	**8.277**	**183.5**	**1.846**	**4433.**
Stddev	5.0	.28	.288	1.5	.036	28.
%RSD	2.891	2.048	3.476	.8384	1.957	.6403
#1	168.9	13.37	8.452	184.9	1.841	4453.
#2	173.0	13.73	7.945	183.8	1.885	4445.
#3	178.9	13.19	8.433	181.9	1.813	4400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.563**	**45.72**	**9.083**	**20.94**	**138.4**	**4537.**
Stddev	.081	.52	.430	.20	3.3	57.
%RSD	2.261	1.141	4.737	.9457	2.368	1.260
#1	3.656	46.17	8.989	20.80	135.8	4603.
#2	3.515	45.85	8.707	20.85	142.1	4513.
#3	3.519	45.15	9.552	21.17	137.4	4497.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4385.**	**14.10**	**4610.**	**37.47**	**9.925**	**18.48**
Stddev	29.	.05	20.	.89	1.865	1.57
%RSD	.6575	.3817	.4321	2.364	18.79	8.497
#1	4400.	14.15	4620.	38.39	11.77	19.64
#2	4404.	14.05	4622.	37.38	9.960	16.69
#3	4352.	14.09	4587.	36.63	8.043	19.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 15:18:50 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**17.45**	**19.24**	**44.66**	**29.27**	**40.14**	**18.11**
Stddev	1.12	.27	.46	.43	1.44	.57
%RSD	6.391	1.420	1.031	1.477	3.601	3.142
#1	18.49	19.54	45.01	29.76	41.56	18.19
#2	17.60	19.00	44.83	29.14	40.18	18.63
#3	16.27	19.18	44.14	28.93	38.67	17.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**45.27**	**17.96**	**18.48**	F **-90.57**
Stddev	.76	.12	.36	11.28
%RSD	1.671	.6878	1.973	12.45
#1	46.12	18.09	18.63	-78.21
#2	45.01	17.91	18.76	-100.3
#3	44.68	17.86	18.07	-93.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8409.8**	**81248.**	**9904.9**
Stddev	51.0	495.	62.6
%RSD	.60606	.60883	.63242
#1	8354.6	80742.	9880.5
#2	8419.6	81271.	9858.1
#3	8455.2	81731.	9976.0

Sample Name: CCV Acquired: 4/16/2018 16:00:53 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**125100.**	**2513.**	**1248.**	**10190.**	**995.4**	**125300.**
Stddev	917.	3.	8.	24.	6.1	1015.
%RSD	.7330	.1043	.6145	.2327	.6104	.8098
#1	124000.	2513.	1239.	10170.	988.6	124200.
#2	125600.	2516.	1252.	10210.	1000.	126000.
#3	125600.	2511.	1253.	10190.	997.2	125800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1265.**	**2536.**	**5033.**	**12620.**	**100700.**	**51520.**
Stddev	3.	4.	40.	73.	773.	368.
%RSD	.2124	.1477	.7862	.5782	.7672	.7136
#1	1262.	2533.	4987.	12540.	99820.	51090.
#2	1266.	2540.	5057.	12660.	101300.	51720.
#3	1266.	2535.	5054.	12670.	101000.	51740.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124900.**	**5113.**	**130400.**	**2542.**	**7599.**	**1007.**
Stddev	908.	34.	514.	3.	22.	2.
%RSD	.7267	.6564	.3942	.1258	.2935	.1889
#1	123800.	5075.	129900.	2539.	7573.	1005.
#2	125500.	5135.	130900.	2543.	7609.	1006.
#3	125300.	5130.	130500.	2545.	7615.	1009.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 16:00:53 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2538.**	**2558.**	**2512.**	**2522.**	**1015.**	**2530.**
Stddev	6.	2.	15.	5.	4.	3.
%RSD	.2406	.0921	.5984	.1957	.4062	.1009
#1	2536.	2560.	2494.	2516.	1011.	2527.
#2	2545.	2558.	2520.	2523.	1019.	2532.
#3	2534.	2555.	2521.	2526.	1015.	2530.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1010.**	**5080.**	**10170.**	**9505.**
Stddev	1.	33.	117.	53.
%RSD	.0774	.6492	1.150	.5562
#1	1009.	5042.	10040.	9516.
#2	1009.	5104.	10230.	9552.
#3	1010.	5094.	10250.	9448.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7690.5**	**74704.**	**9511.8**
Stddev	6.1	273.	37.4
%RSD	.07940	.36533	.39327
#1	7686.2	75018.	9545.1
#2	7687.8	74527.	9519.1
#3	7697.5	74566.	9471.3

Sample Name: CCVL Acquired: 4/16/2018 16:08:36 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**176.8**	**14.03**	**8.753**	**185.3**	**1.765**	**4450.**
Stddev	2.5	1.46	.400	1.0	.030	26.
%RSD	1.399	10.41	4.567	.5457	1.713	.5922
#1	175.0	14.47	9.130	184.8	1.764	4433.
#2	179.6	12.40	8.795	184.6	1.795	4438.
#3	175.7	15.22	8.334	186.5	1.735	4481.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.678**	**46.19**	**8.942**	**21.14**	**139.8**	**4661.**
Stddev	.049	.17	.139	.31	2.3	60.
%RSD	1.340	.3673	1.552	1.465	1.617	1.288
#1	3.701	46.01	8.939	21.14	142.3	4684.
#2	3.622	46.22	8.805	20.83	138.1	4707.
#3	3.712	46.34	9.082	21.45	138.8	4593.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4483.**	**14.55**	**4685.**	**37.88**	**9.953**	**17.94**
Stddev	29.	.09	21.	.40	.808	.40
%RSD	.6472	.6379	.4478	1.054	8.120	2.217
#1	4454.	14.65	4702.	38.28	10.11	18.39
#2	4483.	14.47	4662.	37.48	9.077	17.73
#3	4512.	14.54	4692.	37.88	10.67	17.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 16:08:36 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.44**	**17.76**	**46.15**	**30.33**	**44.03**	**18.63**
Stddev	2.42	1.17	.13	.29	.78	.37
%RSD	14.74	6.607	.2717	.9448	1.772	2.002
#1	19.02	18.50	46.18	30.39	44.30	18.80
#2	16.07	16.41	46.01	30.57	44.64	18.89
#3	14.22	18.38	46.26	30.01	43.15	18.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**47.01**	**18.15**	**19.24**	F **-86.05**
Stddev	.72	.15	.33	9.89
%RSD	1.525	.8454	1.698	11.49
#1	47.66	18.10	19.60	-74.84
#2	47.12	18.33	18.98	-89.75
#3	46.24	18.03	19.13	-93.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8357.4**	**80678.**	**9750.6**
Stddev	37.1	285.	65.7
%RSD	.44346	.35313	.67391
#1	8362.1	80856.	9677.4
#2	8391.9	80829.	9804.4
#3	8318.2	80350.	9770.0

Sample Name: 460-153929-f-7-a Acquired: 4/16/2018 16:16:28 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.179**	**1.887**	**-.2108**	**355.2**	**.0787**	**14310.**
Stddev	2.337	.383	.1327	.2	.0735	62.
%RSD	107.2	20.31	62.93	.0672	93.47	.4367
#1	.5357	1.741	-.2747	355.4	.0624	14240.
#2	1.148	1.598	-.0583	355.2	.1590	14340.
#3	4.855	2.321	-.2995	354.9	.0147	14350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3385**	**24.38**	**-.0689**	**2.386**	**24720.**	**3037.**
Stddev	.0966	.12	.2034	.336	69.	39.
%RSD	28.55	.5006	295.1	14.06	.2793	1.294
#1	-.2414	24.51	.0023	2.711	24640.	3026.
#2	-.3394	24.32	-.2983	2.405	24760.	3005.
#3	-.4346	24.29	.0893	2.041	24770.	3081.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8082.**	**2093.**	**26930.**	**2.898**	**1.753**	**-.0644**
Stddev	36.	5.	37.	.383	.225	1.112
%RSD	.4420	.2609	.1380	13.20	12.82	1726.
#1	8042.	2087.	26890.	3.298	1.801	-.5620
#2	8094.	2096.	26950.	2.535	1.509	1.210
#3	8111.	2097.	26960.	2.860	1.951	-.8409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153929-f-7-a Acquired: 4/16/2018 16:16:28 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.599**	**-.2075**	**-.8852**	**37.00**	**16.90**	**-.7779**
Stddev	.519	1.925	.4541	.22	.31	.1333
%RSD	32.44	927.5	51.30	.5886	1.821	17.13
#1	2.102	-1.068	-.8401	36.92	16.81	-.7977
#2	1.066	-1.552	-1.360	37.25	17.24	-.6358
#3	1.627	1.997	-.4554	36.83	16.64	-.9002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.0482**	**171.0**	**.3509**	**4527.**
Stddev	.2036	.3	.0828	64.
%RSD	422.3	.1723	23.60	1.407
#1	-.0458	171.1	.3492	4572.
#2	.1541	171.2	.2690	4454.
#3	-.2529	170.7	.4346	4554.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8333.8**	**80829.**	**9959.7**
Stddev	12.5	335.	145.3
%RSD	.15021	.41402	1.4593
#1	8344.5	81214.	10124.
#2	8336.8	80657.	9847.8
#3	8320.0	80615.	9907.2

Sample Name: 460-154033-f-1-a Acquired: 4/16/2018 16:24:22 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.624**	**2.445**	**.7747**	**498.1**	**-.0109**	**16200.**
Stddev	8.283	1.042	.4026	1.7	.0795	66.
%RSD	228.6	42.61	51.97	.3441	726.8	.4078
#1	10.28	1.974	.9181	499.9	.0736	16140.
#2	-5.652	3.639	1.086	497.9	-.0841	16270.
#3	6.242	1.722	.3200	496.4	-.0223	16190.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5657**	**39.10**	**.2270**	**1.058**	**50740.**	**3465.**
Stddev	.0503	.29	.2530	.232	248.	36.
%RSD	8.890	.7464	111.5	21.89	.4888	1.026
#1	-.5312	39.38	-.0579	.9008	50520.	3463.
#2	-.6234	39.12	.3132	.9490	51000.	3502.
#3	-.5424	38.80	.4257	1.324	50690.	3431.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12720.**	**5681.**	**43790.**	**21.14**	**1.570**	**-5.434**
Stddev	84.	20.	82.	.15	.713	1.142
%RSD	.6629	.3494	.1878	.7289	45.39	21.02
#1	12660.	5664.	43710.	21.26	.7506	-6.402
#2	12820.	5703.	43800.	21.20	1.915	-5.725
#3	12690.	5676.	43870.	20.96	2.045	-4.174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-1-a Acquired: 4/16/2018 16:24:22 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.788**	**2.226**	**-2.474**	**22.59**	**15.79**	**-1.140**
Stddev	1.354	.919	.073	.37	1.08	.094
%RSD	48.57	41.29	2.936	1.643	6.868	8.281
#1	3.820	1.369	-2.549	23.02	17.02	-1.047
#2	1.255	3.196	-2.404	22.38	14.98	-1.236
#3	3.289	2.111	-2.470	22.36	15.36	-1.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.4073**	**167.1**	**-.2763**	**7048.**
Stddev	.6057	.3	.0487	67.
%RSD	148.7	.1635	17.64	.9445
#1	-.7229	166.8	-.2207	7125.
#2	.2910	167.1	-.3119	7010.
#3	-.7899	167.4	-.2962	7009.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8194.5**	**78947.**	**9753.2**
Stddev	24.8	341.	30.1
%RSD	.30214	.43226	.30903
#1	8177.6	79270.	9783.4
#2	8182.9	78590.	9723.1
#3	8222.9	78982.	9753.0

Sample Name: 460-153929-f-8-a Acquired: 4/16/2018 16:20:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14.00**	**-1.467**	**-.0105**	**.0844**	**-.0296**	**69.90**
Stddev	5.30	.158	.2513	.0721	.0786	2.17
%RSD	37.83	10.79	2386.	85.45	265.4	3.100
#1	7.919	-1.543	.0978	.1555	-.0519	67.41
#2	16.50	-1.285	.1684	.0861	.0577	71.34
#3	17.59	-1.573	-.2979	.0114	-.0947	70.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0842**	**-.1592**	**.3607**	**1.781**	**11.89**	**52.22**
Stddev	.0491	.1236	.1913	.046	.68	22.07
%RSD	58.31	77.63	53.04	2.601	5.709	42.26
#1	-.0446	-.1066	.1735	1.819	11.89	48.73
#2	-.1391	-.0706	.3527	1.793	12.57	75.82
#3	-.0689	-.3004	.5559	1.729	11.22	32.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.20**	**.3022**	**444.1**	**.3390**	**-.0772**	**.1320**
Stddev	2.89	.0995	5.1	.1932	.9942	.6601
%RSD	25.78	32.92	1.141	57.00	1287.	500.0
#1	10.06	.3495	449.6	.3187	.9285	-.2458
#2	14.49	.3692	439.6	.5417	-1.059	-.2524
#3	9.064	.1879	443.2	.1568	-.1007	.8943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153929-f-8-a Acquired: 4/16/2018 16:20:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3554**	**-2.833**	**-.3363**	**5.195**	**-8.915**	**.0960**
Stddev	.9058	1.476	.3723	.092	.198	.1565
%RSD	254.9	52.12	110.7	1.780	2.224	163.0
#1	1.399	-4.233	-.5022	5.261	-8.812	.2172
#2	-.1044	-2.974	-.5968	5.089	-8.789	.1515
#3	-.2284	-1.291	.0901	5.233	-9.144	-.0806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.3203**	**.0993**	**-.3170**	**51.50**
Stddev	.3814	.0347	.0282	7.11
%RSD	119.1	34.93	8.911	13.81
#1	.5544	.0947	-.3444	52.33
#2	.5263	.0671	-.2880	58.15
#3	-.1197	.1360	-.3186	44.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8367.0**	**81063.**	**9773.8**
Stddev	44.3	273.	69.6
%RSD	.52993	.33669	.71252
#1	8407.6	81378.	9840.9
#2	8373.8	80915.	9701.9
#3	8319.7	80895.	9778.8

Sample Name: 460-154033-f-2-a Acquired: 4/16/2018 16:28:17 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.236**	**5.441**	**.3594**	**119.0**	**-.0212**	**7659.**
Stddev	3.617	1.135	.1115	.6	.0557	35.
%RSD	161.8	20.86	31.02	.4927	262.4	.4616
#1	-1.001	5.384	.2507	119.7	-.0421	7625.
#2	1.570	6.603	.4735	118.7	.0419	7696.
#3	6.141	4.335	.3540	118.6	-.0634	7656.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4503**	**21.76**	**.8101**	**2.634**	**53200.**	**3358.**
Stddev	.0739	.17	.3545	.210	227.	17.
%RSD	16.40	.7886	43.76	7.978	.4257	.4969
#1	-.3902	21.82	1.122	2.660	53040.	3374.
#2	-.5328	21.57	.8834	2.412	53460.	3359.
#3	-.4280	21.90	.4247	2.829	53090.	3341.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12030.**	**2743.**	**73190.**	**77.65**	**1.296**	**-3.008**
Stddev	65.	9.	346.	.50	.582	.808
%RSD	.5436	.3118	.4723	.6485	44.95	26.87
#1	11970.	2737.	72990.	78.21	.6962	-3.559
#2	12100.	2752.	73590.	77.26	1.331	-3.384
#3	12030.	2739.	72990.	77.46	1.859	-2.080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-2-a Acquired: 4/16/2018 16:28:17 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.727**	**.0547**	**-1.215**	**7.402**	**46.11**	**-.4954**
Stddev	1.358	.9142	.106	.110	1.22	.1412
%RSD	78.61	1670.	8.705	1.489	2.652	28.49
#1	2.058	-.0993	-1.177	7.499	47.50	-.3324
#2	.2347	-.7726	-1.133	7.425	45.63	-.5770
#3	2.889	1.036	-1.334	7.282	45.21	-.5769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1459**	**99.82**	**-.6992**	**5382.**
Stddev	.1363	.65	.0200	76.
%RSD	93.40	.6503	2.856	1.412
#1	.0043	99.59	-.6762	5470.
#2	-.1804	100.6	-.7122	5345.
#3	-.2616	99.32	-.7091	5332.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8201.8**	**79177.**	**9902.5**
Stddev	13.7	219.	139.0
%RSD	.16672	.27654	1.4040
#1	8196.7	79360.	10040.
#2	8191.5	78934.	9762.1
#3	8217.3	79236.	9905.3

Sample Name: PDS 460-153929-f-1-a Acquired: 4/16/2018 15:30:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2037.**	**2042.**	**46.31**	**2311.**	**51.90**	**32860.**
Stddev	22.	15.	.16	22.	.59	232.
%RSD	1.082	.7583	.3536	.9437	1.129	.7067
#1	2019.	2026.	46.28	2288.	51.25	32660.
#2	2031.	2042.	46.16	2314.	52.07	32800.
#3	2061.	2057.	46.49	2331.	52.39	33110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52.71**	**567.6**	**216.7**	**254.1**	**15130.**	**23740.**
Stddev	.57	5.0	1.3	.9	123.	192.
%RSD	1.089	.8827	.6009	.3618	.8121	.8068
#1	52.08	562.7	215.2	253.2	15040.	23570.
#2	52.83	567.5	217.7	254.1	15090.	23690.
#3	53.21	572.7	217.2	255.0	15270.	23950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26040.**	**2065.**	**42640.**	**528.7**	**530.4**	**515.9**
Stddev	189.	18.	398.	5.2	5.3	7.6
%RSD	.7252	.8562	.9327	.9878	.9917	1.475
#1	25900.	2050.	42290.	523.2	526.3	508.1
#2	25960.	2061.	42570.	529.3	528.7	516.4
#3	26260.	2084.	43070.	533.6	536.3	523.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: PDS 460-153929-f-1-a Acquired: 4/16/2018 15:30:21 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2050.**	**2190.**	**521.8**	**551.0**	**527.7**	**527.5**
Stddev	28.	25.	5.5	2.9	7.1	6.6
%RSD	1.348	1.128	1.056	.5187	1.354	1.245
#1	2018.	2162.	517.2	547.7	519.5	519.9
#2	2062.	2209.	520.3	552.1	531.4	531.4
#3	2069.	2198.	527.9	553.1	532.2	531.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**529.6**	**647.3**	**536.6**	**3944.**
Stddev	5.6	6.3	5.0	75.
%RSD	1.063	.9762	.9247	1.909
#1	523.1	641.7	532.4	3867.
#2	533.5	646.1	535.4	3947.
#3	532.1	654.1	542.1	4018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8179.2**	**79260.**	**9841.9**
Stddev	40.4	240.	34.2
%RSD	.49366	.30259	.34787
#1	8223.5	79474.	9809.9
#2	8169.8	79305.	9838.0
#3	8144.4	79000.	9878.0

Sample Name: 460-154033-f-6-a Acquired: 4/16/2018 16:44:02 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-10.14**	**2.786**	**.2874**	**883.4**	**.0269**	**12800.**
Stddev	14.77	.708	.1450	1.6	.0180	86.
%RSD	145.7	25.41	50.44	.1839	66.70	.6713
#1	-12.76	3.384	.2002	881.6	.0158	12710.
#2	-23.43	2.004	.2073	884.7	.0174	12810.
#3	5.768	2.971	.4547	884.0	.0477	12880.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2998**	**17.23**	**.2424**	**6.536**	**27800.**	**3133.**
Stddev	.1013	.02	.3424	.085	155.	20.
%RSD	33.78	.1230	141.3	1.303	.5587	.6528
#1	-.1903	17.20	.3669	6.609	27660.	3142.
#2	-.3190	17.24	-.1449	6.556	27780.	3110.
#3	-.3902	17.23	.5050	6.443	27970.	3147.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**25910.**	**1543.**	**52040.**	**7.026**	**-1.146**	**-1.749**
Stddev	199.	7.	183.	.658	.465	.545
%RSD	.7661	.4587	.3518	9.360	40.59	31.18
#1	25720.	1536.	52000.	6.382	-.7163	-2.296
#2	25900.	1543.	51880.	6.998	-1.082	-1.746
#3	26120.	1550.	52240.	7.697	-1.640	-1.205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-6-a Acquired: 4/16/2018 16:44:02 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.335**	**-.7611**	**-.9593**	**2.825**	**23.50**	**-.4502**
Stddev	.496	.8267	.0524	.121	.41	.0579
%RSD	37.15	108.6	5.458	4.278	1.739	12.86
#1	1.649	-1.550	-.9317	2.723	23.87	-.4196
#2	1.593	.0991	-1.020	2.959	23.06	-.5170
#3	.7633	-.8327	-.9266	2.793	23.56	-.4141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.2542**	**166.5**	**.1357**	**4955.**
Stddev	.2661	.5	.0469	5.
%RSD	104.7	.3105	34.57	.0990
#1	-.0305	166.5	.1101	4957.
#2	-.1834	166.0	.1899	4959.
#3	-.5485	167.0	.1072	4950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8211.7**	**78910.**	**9766.4**
Stddev	11.8	348.	77.7
%RSD	.14395	.44152	.79533
#1	8225.4	79246.	9802.7
#2	8205.3	78934.	9819.3
#3	8204.5	78550.	9677.2

Sample Name: 460-154033-f-5-a Acquired: 4/16/2018 16:40:09 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.702**	**12.70**	**.5540**	**159.0**	**.0637**	**8476.**
Stddev	8.631	.63	.3666	1.0	.0245	222.
%RSD	507.1	4.996	66.17	.6012	38.50	2.624
#1	.6742	13.10	.2221	159.5	.0665	8231.
#2	-11.27	13.03	.4925	159.7	.0867	8533.
#3	5.492	11.97	.9475	158.0	.0379	8664.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4882**	**46.03**	**1.596**	**279.5**	**62260.**	**3029.**
Stddev	.2582	.21	.369	4.6	1633.	558.
%RSD	52.88	.4519	23.13	1.654	2.623	18.42
#1	-.2061	46.23	1.456	274.1	60470.	2385.
#2	-.5457	46.04	1.318	282.3	62650.	3354.
#3	-.7127	45.82	2.015	282.0	63670.	3349.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13020.**	**2698.**	^ *****	**59.55**	**4.194**	**-3.031**
Stddev	332.	68.	-----	.50	.955	.577
%RSD	2.551	2.520	-----	.8325	22.77	19.02
#1	12660.	2622.	^ -----	59.39	4.662	-2.503
#2	13090.	2716.	76900.	60.10	3.096	-3.646
#3	13320.	2754.	76160.	59.15	4.825	-2.945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-5-a Acquired: 4/16/2018 16:40:09 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.436**	**2.205**	**-1.239**	**21.49**	**41.83**	**-.5628**
Stddev	.084	.685	.087	.41	.73	.0567
%RSD	3.426	31.04	7.039	1.891	1.745	10.07
#1	2.532	2.394	-1.334	21.93	42.41	-.5202
#2	2.377	2.775	-1.221	21.40	42.06	-.6271
#3	2.400	1.446	-1.163	21.12	41.01	-.5410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.7739**	**100.4**	**-.5059**	**5121.**
Stddev	.4009	18.2	.1106	573.
%RSD	51.80	18.15	21.86	11.19
#1	1.207	79.38	-.6245	4462.
#2	.6986	111.6	-.4057	5502.
#3	.4160	110.3	-.4874	5399.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8141.0**	**78809.**	**10220.**
Stddev	11.4	1037.	840.
%RSD	.13980	1.3162	8.2145
#1	8134.4	79776.	11189.
#2	8134.5	78937.	9762.2
#3	8154.1	77714.	9708.3

Sample Name: 460-154033-f-7-a Acquired: 4/16/2018 16:47:59 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.532**	**4.001**	**.6826**	**306.9**	**.0943**	**20180.**
Stddev	14.03	.957	.0576	1.3	.0357	43.
%RSD	147.1	23.91	8.438	.4195	37.79	.2116
#1	6.615	4.804	.6787	307.8	.0626	20170.
#2	-16.52	4.255	.6271	307.6	.0875	20230.
#3	-18.69	2.943	.7421	305.5	.1329	20140.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2265**	**56.66**	**.4291**	**.0958**	**28800.**	**2886.**
Stddev	.1721	.39	.1285	.2803	30.	58.
%RSD	75.99	.6954	29.95	292.6	.1056	1.994
#1	-.2956	56.58	.5106	-.0559	28790.	2952.
#2	-.0306	57.09	.2809	-.0760	28840.	2864.
#3	-.3535	56.32	.4957	.4193	28780.	2844.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19560.**	**9308.**	**38900.**	**9.087**	**2.148**	**-5.259**
Stddev	57.	58.	327.	.315	1.025	1.528
%RSD	.2925	.6190	.8395	3.469	47.73	29.05
#1	19500.	9313.	39180.	9.394	1.404	-4.527
#2	19600.	9362.	38990.	8.764	3.317	-7.014
#3	19590.	9247.	38540.	9.103	1.722	-4.235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-7-a Acquired: 4/16/2018 16:47:59 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.416**	**2.112**	**-3.702**	**5.498**	**30.45**	**-2.433**
Stddev	1.221	.848	.127	.059	.41	.092
%RSD	86.29	40.16	3.421	1.065	1.359	3.785
#1	-2.026	2.020	-3.721	5.516	30.93	-2.539
#2	-2.211	1.313	-3.818	5.432	30.19	-2.383
#3	-.0091	3.002	-3.567	5.545	30.23	-2.376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.4664**	**185.4**	**.4775**	**6567.**
Stddev	.0946	1.5	.0593	92.
%RSD	20.28	.8221	12.42	1.397
#1	-.5360	186.6	.4522	6667.
#2	-.3587	186.0	.5453	6486.
#3	-.5047	183.7	.4350	6549.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8277.8**	**79930.**	**9854.7**
Stddev	15.1	130.	45.3
%RSD	.18276	.16277	.45931
#1	8276.8	79989.	9806.5
#2	8263.2	79781.	9896.3
#3	8293.4	80020.	9861.3

Sample Name: CCB Acquired: 4/16/2018 16:55:45 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.477**	**1.301**	**-.0541**	**.3107**	**.0985**	**4.553**
Stddev	7.199	.101	.1036	.3075	.0458	7.445
%RSD	207.1	7.793	191.3	98.96	46.49	163.5
#1	4.803	1.184	-.0402	.6468	.1361	9.954
#2	-8.259	1.358	.0417	.2416	.1119	7.644
#3	-6.974	1.361	-.1640	.0436	.0475	-3.940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0562**	**.0468**	**.0016**	**.8055**	**14.05**	**51.74**
Stddev	.0442	.2206	.6841	.8366	7.40	15.26
%RSD	78.51	471.6	43670.	103.9	52.66	29.50
#1	.1065	.3002	.4908	1.772	22.05	68.16
#2	.0386	-.1016	.2941	.3175	7.451	49.10
#3	.0236	-.0584	-.7802	.3275	12.65	37.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.89**	**.2639**	**62.11**	**.4149**	**.0148**	**-.9312**
Stddev	8.81	.3013	25.28	.1775	.4777	.4043
%RSD	68.33	114.2	40.71	42.79	3225.	43.42
#1	21.77	.6118	89.32	.5949	-.5044	-.5824
#2	12.76	.0918	57.64	.4098	.4356	-1.374
#3	4.154	.0881	39.35	.2400	.1132	-.8369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 16:55:45 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.500**	**-1.076**	**-.1392**	**-.0680**	**4.123**	**1.695**
Stddev	2.724	1.281	.0948	.0568	.887	.633
%RSD	108.9	119.0	68.09	83.53	21.52	37.32
#1	5.019	-2.549	-.0381	-.1292	5.005	2.341
#2	2.871	-.4455	-.2260	-.0578	4.134	1.668
#3	-.3899	-.2324	-.1536	-.0170	3.231	1.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.0943**	**.2431**	**1.752**	**10.35**
Stddev	.2741	.3210	1.236	15.96
%RSD	290.8	132.0	70.56	154.2
#1	.4093	.6114	3.123	11.22
#2	-.0897	.0233	1.408	-6.021
#3	-.0368	.0946	.7236	25.86
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8410.0**	**81378.**	**9916.8**
Stddev	51.1	543.	87.6
%RSD	.60752	.66698	.88305
#1	8372.9	80814.	9816.1
#2	8468.3	81897.	9959.1
#3	8389.0	81423.	9975.1

Sample Name: CCV Acquired: 4/16/2018 16:52:02 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123000.**	**2486.**	**1232.**	**10090.**	**976.3**	**123600.**
Stddev	3379.	31.	23.	111.	26.3	2124.
%RSD	2.747	1.265	1.900	1.096	2.690	1.719
#1	119100.	2450.	1206.	9968.	946.0	121200.
#2	124800.	2498.	1249.	10120.	991.0	125100.
#3	125100.	2510.	1242.	10180.	991.9	124500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1251.**	**2514.**	**4953.**	**12460.**	**99090.**	**50770.**
Stddev	13.	27.	92.	265.	1838.	1369.
%RSD	1.052	1.065	1.862	2.126	1.855	2.696
#1	1237.	2486.	4848.	12150.	96980.	49200.
#2	1254.	2518.	5017.	12630.	100400.	51440.
#3	1263.	2539.	4995.	12580.	99910.	51680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123000.**	**5028.**	**128800.**	**2516.**	**7527.**	**995.7**
Stddev	2185.	93.	3167.	27.	90.	15.7
%RSD	1.776	1.841	2.460	1.064	1.196	1.576
#1	120500.	4922.	125100.	2488.	7433.	978.2
#2	124600.	5093.	130600.	2520.	7535.	1000.
#3	123900.	5068.	130600.	2541.	7612.	1009.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/16/2018 16:52:02 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2517.**	**2537.**	**2479.**	**2505.**	**1004.**	**2507.**
Stddev	28.	25.	46.	25.	12.	29.
%RSD	1.129	.9844	1.850	1.015	1.215	1.176
#1	2487.	2509.	2427.	2479.	990.7	2475.
#2	2519.	2544.	2512.	2508.	1005.	2514.
#3	2544.	2558.	2498.	2529.	1015.	2533.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1001.**	**4973.**	**9951.**	**9295.**
Stddev	10.	140.	225.	151.
%RSD	.9959	2.814	2.260	1.629
#1	991.1	4812.	9693.	9135.
#2	1001.	5047.	10060.	9314.
#3	1011.	5061.	10100.	9436.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7774.6**	**76055.**	**9549.2**
Stddev	58.1	879.	166.1
%RSD	.74756	1.1556	1.7397
#1	7835.9	77060.	9740.6
#2	7767.4	75430.	9442.4
#3	7720.4	75674.	9464.5

Sample Name: 460-153929-f-1-b ms Acquired: 4/16/2018 15:33:57 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1973.**	**1954.**	**48.80**	**2230.**	**50.15**	**32430.**
Stddev	20.	7.	.26	9.	.98	543.
%RSD	.9892	.3381	.5301	.4227	1.945	1.674
#1	1951.	1947.	48.64	2219.	49.05	31810.
#2	1989.	1960.	49.10	2237.	50.52	32760.
#3	1978.	1955.	48.67	2234.	50.89	32730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.57**	**547.6**	**207.3**	**244.5**	**15440.**	**23050.**
Stddev	.11	2.0	2.9	2.5	207.	325.
%RSD	.2143	.3585	1.395	1.021	1.339	1.408
#1	50.45	546.1	204.5	241.8	15210.	22680.
#2	50.66	549.8	210.2	246.6	15590.	23180.
#3	50.59	546.8	207.2	245.1	15540.	23290.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**25360.**	**2091.**	**42400.**	**507.7**	**508.1**	**492.6**
Stddev	347.	28.	598.	2.8	3.5	3.3
%RSD	1.367	1.357	1.410	.5547	.6826	.6655
#1	24960.	2058.	41720.	505.0	505.0	490.0
#2	25590.	2109.	42630.	510.6	511.9	491.6
#3	25530.	2106.	42840.	507.3	507.5	496.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153929-f-1-b ms Acquired: 4/16/2018 15:33:57 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1958.**	**2094.**	**503.8**	**532.4**	**502.6**	**506.1**
Stddev	5.	4.	7.0	2.6	2.6	2.2
%RSD	.2345	.2057	1.399	.4894	.5081	.4283
#1	1952.	2091.	495.6	531.8	499.7	504.0
#2	1959.	2099.	507.5	535.3	503.8	508.3
#3	1961.	2091.	508.2	530.2	504.4	506.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**507.9**	**631.8**	**514.3**	**4065.**
Stddev	1.8	8.3	6.5	43.
%RSD	.3532	1.306	1.260	1.061
#1	507.1	622.3	506.9	4104.
#2	509.9	636.2	518.0	4073.
#3	506.6	637.0	518.2	4018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8144.2**	**78799.**	**9868.9**
Stddev	13.4	845.	162.9
%RSD	.16399	1.0719	1.6508
#1	8158.9	79754.	10053.
#2	8132.9	78494.	9810.6
#3	8140.8	78149.	9743.1

Sample Name: 460-153470-b-1-a@5 Acquired: 4/16/2018 15:49:18 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**771.6**	**1.909**	**75.55**	**145.5**	**.0839**	**13120.**
Stddev	11.3	.479	.64	.9	.0250	76.
%RSD	1.464	25.07	.8469	.6097	29.81	.5785
#1	758.8	2.372	74.81	144.5	.0954	13040.
#2	780.2	1.416	75.94	146.0	.1010	13130.
#3	775.8	1.939	75.90	146.1	.0552	13190.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0594**	**47.28**	**58.20**	**29.83**	**2101.**	F **161100.**
Stddev	.0780	.24	.32	.43	14.	1262.
%RSD	131.4	.5087	.5579	1.431	.6718	.7831
#1	.1366	47.01	57.88	29.44	2102.	159700.
#2	.0610	47.36	58.53	30.28	2115.	161500.
#3	-.0195	47.48	58.20	29.76	2087.	162200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						100000.
Low Limit						-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4545.**	**71.64**	**17360.**	**307.9**	**2.459**	**-1.073**
Stddev	12.	.44	124.	1.1	1.021	.862
%RSD	.2594	.6186	.7111	.3565	41.53	80.29
#1	4538.	71.27	17220.	306.6	3.175	-1.079
#2	4559.	72.13	17410.	308.7	1.290	-.2084
#3	4539.	71.53	17460.	308.2	2.914	-1.931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153470-b-1-a@5 Acquired: 4/16/2018 15:49:18 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.818**	**3.479**	**.3662**	**52.91**	**235.1**	**14.38**
Stddev	.464	1.570	.2124	.77	3.0	.12
%RSD	9.619	45.13	58.00	1.460	1.292	.8294
#1	-5.055	1.851	.5902	53.80	238.6	14.41
#2	-5.116	3.602	.1678	52.59	233.0	14.25
#3	-4.284	4.983	.3405	52.36	233.7	14.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**1.067**	**36.71**	**22.25**	**4468.**
Stddev	.233	.29	.35	83.
%RSD	21.82	.7880	1.571	1.847
#1	1.132	36.40	22.07	4373.
#2	.8083	36.76	22.65	4504.
#3	1.260	36.97	22.02	4526.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**10606.**	**102050.**	**13033.**
Stddev	48.	442.	59.
%RSD	.45157	.43266	.45151
#1	10659.	102540.	13002.
#2	10592.	101940.	12996.
#3	10566.	101670.	13101.

Sample Name: 460-153470-b-1-a@10 Acquired: 4/16/2018 15:53:06 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**453.2**	**.8918**	**42.54**	**83.19**	**.0273**	**7530.**
Stddev	17.3	1.001	1.15	1.43	.0817	83.
%RSD	3.819	112.2	2.692	1.719	299.3	1.096
#1	460.0	1.738	43.76	84.79	.0985	7620.
#2	466.1	-.2129	42.37	82.73	.0453	7512.
#3	433.5	1.150	41.49	82.05	-.0619	7458.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0267**	**26.89**	**33.68**	**16.62**	**1223.**	**93680.**
Stddev	.0312	.53	.32	.42	12.	1829.
%RSD	116.9	1.978	.9569	2.501	.9757	1.953
#1	-.0592	27.49	33.58	16.97	1235.	93170.
#2	.0030	26.68	34.04	16.16	1223.	95720.
#3	-.0240	26.49	33.41	16.72	1211.	92170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2643.**	**41.41**	**10100.**	**177.6**	**1.527**	**.1269**
Stddev	45.	.74	195.	3.6	.296	1.323
%RSD	1.717	1.791	1.931	2.021	19.39	1043.
#1	2691.	42.22	10070.	181.7	1.654	1.266
#2	2635.	41.23	10310.	176.3	1.739	-1.325
#3	2601.	40.77	9922.	174.9	1.189	.4401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153470-b-1-a@10 Acquired: 4/16/2018 15:53:06 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.785**	**1.454**	**-.0157**	**31.05**	**135.8**	**8.193**
Stddev	1.133	.742	.1994	1.13	5.4	.297
%RSD	29.94	51.06	1266.	3.647	3.979	3.630
#1	-5.083	1.632	-.1205	32.28	141.5	8.533
#2	-2.993	.6387	-.1409	30.84	135.1	7.977
#3	-3.279	2.091	.2142	30.04	130.8	8.071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**.8251**	**21.31**	**12.54**	**2505.**
Stddev	.2481	.71	.33	46.
%RSD	30.07	3.329	2.612	1.854
#1	1.092	21.09	12.92	2509.
#2	.7808	22.11	12.35	2550.
#3	.6021	20.74	12.35	2457.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**9568.8**	**92264.**	**11497.**
Stddev	84.2	98.	202.
%RSD	.87973	.10643	1.7580
#1	9472.3	92151.	11632.
#2	9626.7	92329.	11265.
#3	9607.5	92312.	11594.

Sample Name: 460-154033-f-3-a Acquired: 4/16/2018 16:32:11 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.484**	**9.250**	**-.0471**	**189.6**	**-.0505**	**27290.**
Stddev	8.396	.149	.4532	.2	.0775	128.
%RSD	241.0	1.614	963.2	.1290	153.5	.4684
#1	-6.219	9.130	-.5046	189.7	-.1221	27390.
#2	-10.17	9.204	-.0384	189.3	-.0612	27330.
#3	5.938	9.417	.4018	189.8	.0318	27140.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5117**	**12.50**	**.3763**	**7.655**	**32040.**	**1655.**
Stddev	.0594	.09	.1829	.224	135.	5.
%RSD	11.61	.7083	48.61	2.922	.4198	.3252
#1	-.4845	12.51	.2168	7.862	32170.	1649.
#2	-.5799	12.40	.3361	7.684	32040.	1659.
#3	-.4708	12.57	.5759	7.418	31900.	1658.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**15820.**	**2671.**	**8251.**	**2.974**	**.0621**	**-2.275**
Stddev	100.	12.	28.	.252	.6776	1.605
%RSD	.6328	.4409	.3452	8.484	1092.	70.52
#1	15910.	2683.	8284.	3.265	-.1125	-2.152
#2	15830.	2671.	8229.	2.814	-.5111	-.7360
#3	15720.	2659.	8241.	2.842	.8098	-3.938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-3-a Acquired: 4/16/2018 16:32:11 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.858**	**.8476**	**-1.192**	**2.839**	**15.63**	**-.6520**
Stddev	.849	.8792	.341	.084	.34	.2289
%RSD	45.66	103.7	28.62	2.962	2.182	35.10
#1	.9181	.8843	-1.428	2.883	15.76	-.8559
#2	2.090	1.708	-.8007	2.893	15.89	-.6958
#3	2.567	-.0494	-1.348	2.742	15.24	-.4044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.3221**	**132.0**	**.8496**	**6009.**
Stddev	.2090	2.3	.0613	79.
%RSD	64.88	1.762	7.212	1.307
#1	-.5586	130.6	.8484	6055.
#2	-.2452	134.7	.9114	5919.
#3	-.1625	130.7	.7889	6054.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8250.0**	**79515.**	**9682.2**
Stddev	22.1	601.	122.6
%RSD	.26810	.75535	1.2664
#1	8226.8	79056.	9632.0
#2	8252.3	79293.	9592.7
#3	8270.9	80194.	9822.0

Sample Name: 460-153655-f-1-b@10 Acquired: 4/16/2018 16:12:30 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.493**	**81.38**	**-.3623**	**6.333**	**-.0514**	**1820.**
Stddev	2.701	.83	.3633	.141	.0234	5.
%RSD	49.17	1.024	100.3	2.220	45.41	.2918
#1	2.857	80.43	-.5715	6.435	-.0457	1816.
#2	8.254	81.98	-.5727	6.173	-.0771	1818.
#3	5.366	81.73	.0572	6.392	-.0315	1826.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0399**	**.3323**	**-.1701**	**2.022**	**214.0**	**70.30**
Stddev	.0350	.0667	.2934	.220	3.0	25.81
%RSD	87.65	20.07	172.5	10.88	1.405	36.71
#1	.0621	.2931	-.1124	2.263	210.6	71.22
#2	-.0004	.4093	-.4880	1.970	214.7	44.04
#3	.0582	.2944	.0902	1.833	216.5	95.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31.16**	**4.899**	**1528.**	**.1358**	**4.398**	**12.69**
Stddev	.52	.083	37.	.1418	.580	1.28
%RSD	1.672	1.700	2.428	104.4	13.18	10.06
#1	31.76	4.912	1550.	.1194	4.952	12.97
#2	30.88	4.975	1485.	.2852	3.796	11.30
#3	30.84	4.810	1549.	.0029	4.447	13.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-153655-f-1-b@10 Acquired: 4/16/2018 16:12:30 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**55.89**	F **-147.6**	**-.2371**	**58.27**	**417.8**	**-2.199**
Stddev	3.58	1.8	.1365	1.05	7.0	.235
%RSD	6.410	1.191	57.58	1.803	1.681	10.70
#1	52.19	-146.5	-.2406	57.45	412.1	-2.471
#2	59.34	-146.7	-.3718	59.46	425.7	-2.055
#3	56.12	-149.6	-.0988	57.92	415.7	-2.072
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**42.57**	**1.909**	**-.1913**	**23.94**
Stddev	.31	.031	.0685	29.22
%RSD	.7222	1.615	35.79	122.1
#1	42.45	1.942	-.1317	18.53
#2	42.91	1.904	-.2661	-2.210
#3	42.33	1.881	-.1761	55.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7986.6**	**79878.**	**10163.**
Stddev	28.2	133.	182.
%RSD	.35344	.16690	1.7928
#1	7980.6	80010.	10006.
#2	8017.4	79743.	10363.
#3	7961.9	79881.	10120.

Sample Name: CCB Acquired: 4/16/2018 16:04:35 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.914**	**2.280**	**-.1224**	**.1172**	**.1091**	**4.044**
Stddev	8.853	.978	.3546	.3933	.1130	3.383
%RSD	111.9	42.89	289.8	335.6	103.6	83.67
#1	11.37	2.755	-.0299	.5608	.1941	7.386
#2	14.52	2.929	.1768	-.0206	-.0192	4.123
#3	-2.146	1.155	-.5141	-.1887	.1523	.6214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0346**	**.0422**	**-.0664**	**.3147**	**2.599**	**65.79**
Stddev	.0154	.1184	.3441	.5363	7.379	14.80
%RSD	44.40	280.4	517.9	170.4	283.9	22.50
#1	.0381	-.0120	.3237	.6649	10.36	79.48
#2	.0480	.1780	-.1967	.5818	1.756	50.09
#3	.0178	-.0394	-.3264	-.3027	-4.322	67.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.63**	**.1032**	**68.99**	**.1723**	**.0422**	**-.3980**
Stddev	8.98	.2398	21.37	.2248	.6554	.8206
%RSD	77.21	232.4	30.98	130.5	1554.	206.2
#1	21.33	.3736	86.97	-.0798	-.7143	-1.289
#2	9.969	.0193	74.62	.3520	.4015	-.2306
#3	3.601	-.0834	45.36	.2448	.4393	.3260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/16/2018 16:04:35 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.133**	**-.9829**	**-.3123**	**-.0049**	**3.835**	**1.855**
Stddev	1.039	1.414	.3435	.0371	1.079	.718
%RSD	48.72	143.8	110.0	760.6	28.14	38.71
#1	3.188	-.7138	.0080	.0304	4.521	2.556
#2	2.103	.2771	-.2699	-.0014	2.591	1.887
#3	1.110	-2.512	-.6750	-.0436	4.392	1.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.1306**	**.1352**	**1.448**	**6.728**
Stddev	.2393	.2828	.953	5.579
%RSD	183.2	209.2	65.80	82.93
#1	-.2454	.4615	2.536	12.67
#2	.1445	-.0400	1.049	5.908
#3	-.2909	-.0159	.7599	1.604
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8393.0**	**81236.**	**9878.0**
Stddev	68.0	546.	262.9
%RSD	.81069	.67214	2.6617
#1	8444.3	81865.	10085.
#2	8419.0	80959.	9967.1
#3	8315.8	80884.	9582.1

Sample Name: CCVL Acquired: 4/16/2018 16:59:45 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**181.0**	**13.67**	**8.752**	**190.9**	**1.900**	**4650.**
Stddev	18.3	.21	.014	2.3	.055	16.
%RSD	10.10	1.520	.1617	1.194	2.867	.3473
#1	193.9	13.52	8.762	192.5	1.939	4661.
#2	168.0	13.81	8.742	189.3	1.862	4638.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.766**	**47.71**	**9.544**	**22.35**	**146.1**	**4885.**
Stddev	.008	.47	.197	.48	.2	49.
%RSD	.2128	.9948	2.066	2.153	.1256	.9993
#1	3.772	48.04	9.404	22.69	146.2	4919.
#2	3.760	47.37	9.683	22.01	146.0	4850.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4643.**	**15.11**	**4858.**	**39.15**	**10.17**	**18.16**
Stddev	78.	.65	54.	.31	.04	1.86
%RSD	1.687	4.293	1.113	.7818	.3728	10.26
#1	4699.	15.57	4896.	39.36	10.19	19.47
#2	4588.	14.66	4820.	38.93	10.14	16.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/16/2018 16:59:45 Type: QC
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.30**	**19.20**	**47.42**	**31.07**	**44.58**	**19.51**
Stddev	1.60	.47	1.88	.28	1.36	.44
%RSD	8.731	2.431	3.955	.9171	3.057	2.269
#1	17.17	18.87	48.74	31.27	45.54	19.82
#2	19.43	19.53	46.09	30.87	43.62	19.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**48.53**	**19.12**	**19.84**	F **-81.55**
Stddev	1.19	.42	.82	3.34
%RSD	2.451	2.201	4.155	4.093
#1	49.37	19.42	20.42	-83.91
#2	47.69	18.82	19.25	-79.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8333.3**	**79945.**	**9644.9**
Stddev	28.2	.	88.1
%RSD	.33883	.00027	.91316
#1	8313.4	79945.	9582.6
#2	8353.3	79945.	9707.2

Sample Name: 460-154033-f-4-a Acquired: 4/16/2018 16:36:07 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.058**	**1.181**	**.4874**	**137.0**	**-.0672**	**19440.**
Stddev	12.91	.621	.0987	.7	.0633	192.
%RSD	142.6	52.55	20.26	.4835	94.20	.9874
#1	-18.88	1.338	.3743	136.3	-.0497	19220.
#2	-13.87	.4968	.5566	137.0	-.0145	19520.
#3	5.569	1.708	.5311	137.6	-.1375	19580.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3003**	**70.39**	**.4130**	**5.405**	**28160.**	**2644.**
Stddev	.0425	.37	.2324	.229	282.	47.
%RSD	14.15	.5195	56.27	4.239	1.002	1.790
#1	-.2731	69.99	.2654	5.168	27830.	2607.
#2	-.3493	70.72	.2926	5.625	28310.	2629.
#3	-.2785	70.45	.6809	5.421	28340.	2697.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21650.**	**6485.**	**15930.**	**16.84**	**1.365**	**-1.777**
Stddev	249.	74.	247.	.35	.251	.984
%RSD	1.151	1.147	1.551	2.080	18.41	55.40
#1	21370.	6399.	15650.	16.45	1.645	-.6423
#2	21770.	6526.	16010.	16.92	1.160	-2.405
#3	21820.	6530.	16120.	17.14	1.288	-2.283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-154033-f-4-a Acquired: 4/16/2018 16:36:07 Type: Unk
Method: MC04092018(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5337**	**1.027**	**-2.799**	**8.401**	**18.73**	**-1.670**
Stddev	1.538	.836	.199	.239	.89	.207
%RSD	288.2	81.37	7.110	2.850	4.770	12.40
#1	2.309	.0779	-2.954	8.335	19.55	-1.568
#2	-.3021	1.350	-2.868	8.667	18.86	-1.908
#3	-.4058	1.653	-2.574	8.202	17.78	-1.533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	**-.2776**	**181.9**	**.4479**	**6573.**
Stddev	.2710	2.9	.0539	79.
%RSD	97.61	1.593	12.04	1.204
#1	-.5223	178.6	.5035	6484.
#2	-.3244	183.3	.3958	6600.
#3	.0137	183.9	.4443	6636.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**8235.9**	**80210.**	**9890.1**
Stddev	32.1	474.	76.3
%RSD	.38917	.59050	.77185
#1	8272.7	80757.	9954.9
#2	8214.2	79924.	9909.4
#3	8220.8	79949.	9806.0

04162018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 16 Apr 2018 12:30:57

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
Cal Blank - 1		-244	-	511405hg1	245.1_7470A	16 Apr 2018 12:54:19	Hg
0.2 ug/L - 1		0	-	511405hg1	245.1_7470A	16 Apr 2018 12:56:03	Hg
Cal Blank - 1		120	-	511405hg1	245.1_7470A	16 Apr 2018 12:57:26	Hg
0.2 ug/L - 1		-105	-	511405hg1	245.1_7470A	16 Apr 2018 12:59:09	Hg
1.0 ug/L - 1		0	-	511405hg1	245.1_7470A	16 Apr 2018 13:00:53	Hg
Cal Blank - 1		453	-	511405hg1	245.1_7470A	16 Apr 2018 13:15:25	Hg
0.2 ug/L - 1		0	-	511405hg1	245.1_7470A	16 Apr 2018 13:17:08	Hg
Cal Blank - 1		294	-	511405hg1	245.1_7470A	16 Apr 2018 13:17:44	Hg
0.2 ug/L - 1		1459	-	511405hg1	245.1_7470A	16 Apr 2018 13:19:29	Hg
1.0 ug/L - 1		5958	-	511405hg1	245.1_7470A	16 Apr 2018 13:21:12	Hg
2.0 ug/L - 1		12739	-	511405hg1	245.1_7470A	16 Apr 2018 13:22:56	Hg
5.0 ug/L - 1		32394	-	511405hg1	245.1_7470A	16 Apr 2018 13:24:41	Hg
10.0 ug/L - 1		64859	-	511405hg1	245.1_7470A	16 Apr 2018 13:26:23	Hg
ICV - 1		32060	99.0% 4.951	9511405hg1	245.1_7470A	16 Apr 2018 13:28:07	Hg
ICB - 1		303	0.055	2511405hg1	245.1_7470A	16 Apr 2018 13:30:02	Hg
CRI - 1		1463	117.0% 0.234	1511405hg1	245.1_7470A	16 Apr 2018 13:31:59	Hg
QCS - 1		31903	98.6% 4.927	7511405hg1	245.1_7470A	16 Apr 2018 13:33:44	Hg
MCL - 1		12678	98.2% 1.963	4511405hg1	245.1_7470A	16 Apr 2018 13:35:29	Hg
CCV - 1		31706	97.9% 4.897	4511405hg1	245.1_7470A	16 Apr 2018 13:37:14	Hg
CCB - 1		297	0.054	3511405hg1	245.1_7470A	16 Apr 2018 13:38:57	Hg
MB 460-511405/1-A - 1		-767	-0.109	8511405hg1	245.1_7470A	16 Apr 2018 13:40:48	Hg
LCS 460-511405/2-A - 1		6556	1.019	4511405hg1	245.1_7470A	16 Apr 2018 13:42:29	Hg
460-153569-A-11-B - 1		78	0.020	5511405hg1	245.1_7470A	16 Apr 2018 13:44:13	Hg
460-153569-A-11-C DU - 1		-111	-0.008	6511405hg1	245.1_7470A	16 Apr 2018 13:45:55	Hg
460-153569-A-11-D MS - 1		6430	1.000	0511405hg1	245.1_7470A	16 Apr 2018 13:47:37	Hg
sd 460-153569-A-11-B@5 - 1		58	0.017	4511405hg1	245.1_7470A	16 Apr 2018 13:49:20	Hg
460-153102-J-1-B - 1		2577	0.405	9511405hg1	245.1_7470A	16 Apr 2018 13:51:06	Hg
460-153102-J-2-B - 1		741	0.122	8511405hg1	245.1_7470A	16 Apr 2018 13:52:48	Hg
460-153102-J-3-C - 1		907	0.148	3511405hg1	245.1_7470A	16 Apr 2018 13:54:33	Hg
460-153102-J-4-B - 1		1390	0.222	8511405hg1	245.1_7470A	16 Apr 2018 13:56:16	Hg
CCV - 1		31441	97.1% 4.856	5511405hg1	245.1_7470A	16 Apr 2018 13:57:59	Hg
CCB - 1		-221	-0.025	6511405hg1	245.1_7470A	16 Apr 2018 13:59:41	Hg
460-153102-J-5-B - 1		2852	0.448	3511405hg1	245.1_7470A	16 Apr 2018 14:01:38	Hg
460-153309-D-1-B - 1		-48	0.001	1511405hg1	245.1_7470A	16 Apr 2018 14:03:23	Hg
460-153310-D-1-B - 1		1063	0.172	4511405hg1	245.1_7470A	16 Apr 2018 14:05:08	Hg
460-153395-I-1-B - 1		-58	-0.000	4511405hg1	245.1_7470A	16 Apr 2018 14:06:50	Hg
460-153434-C-1-C - 1		98	0.023	6511405hg1	245.1_7470A	16 Apr 2018 14:08:32	Hg
460-153434-C-2-B - 1		-7	0.007	4511405hg1	245.1_7470A	16 Apr 2018 14:10:13	Hg
460-153951-A-1-B - 1		3218	0.504	7511405hg1	245.1_7470A	16 Apr 2018 14:11:54	Hg
460-153563-E-5-B - 1		111	0.025	6511405hg1	245.1_7470A	16 Apr 2018 14:13:36	Hg
460-153563-E-6-B - 1		981	0.159	8511405hg1	245.1_7470A	16 Apr 2018 14:15:19	Hg
460-153563-E-7-B - 1		-169	-0.017	6511405hg1	245.1_7470A	16 Apr 2018 14:17:03	Hg
CCV - 1		30888	95.4% 4.771	2511405hg1	245.1_7470A	16 Apr 2018 14:18:46	Hg
CCB - 1		-194	-0.021	4511405hg1	245.1_7470A	16 Apr 2018 14:20:29	Hg
460-153563-E-8-B - 1		-2	0.008	2511405hg1	245.1_7470A	16 Apr 2018 14:22:16	Hg
460-153563-E-9-B - 1		116	0.026	4511405hg1	245.1_7470A	16 Apr 2018 14:23:59	Hg
460-153755-A-9-B - 1		221	0.042	6511405hg1	245.1_7470A	16 Apr 2018 14:25:41	Hg
460-153755-A-10-B - 1		928	0.151	6511405hg1	245.1_7470A	16 Apr 2018 14:27:24	Hg
460-153755-A-11-B - 1		475	0.081	7511405hg1	245.1_7470A	16 Apr 2018 14:29:08	Hg
MB 460-511409/1-A - 1		-114	-0.009	1511405hg1	245.1_7470A	16 Apr 2018 14:30:49	Hg
LCS 460-511409/2-A - 1		30560	4.720	6511405hg1	245.1_7470A	16 Apr 2018 14:32:33	Hg
460-153677-D-8-G - 1		200	0.039	3511405hg1	245.1_7470A	16 Apr 2018 14:34:17	Hg
460-153677-D-8-H DU - 1		779	0.128	6511405hg1	245.1_7470A	16 Apr 2018 14:36:05	Hg
460-153677-D-8-I MS - 1		31700	4.896	4511405hg1	245.1_7470A	16 Apr 2018 14:37:48	Hg
CCV - 1		29908	92.4% 4.620	1511405hg1	245.1_7470A	16 Apr 2018 14:39:32	Hg
CCB - 1		-294	-0.036	8511405hg1	245.1_7470A	16 Apr 2018 14:41:16	Hg
sd 460-153677-D-8-G@5 - 1		-72	-0.002	6511405hg1	245.1_7470A	16 Apr 2018 14:43:04	Hg
460-153622-I-22-L - 1		-39	0.002	5511405hg1	245.1_7470A	16 Apr 2018 14:44:46	Hg
460-153622-E-23-H - 1		755	0.124	9511405hg1	245.1_7470A	16 Apr 2018 14:46:31	Hg
460-153622-F-24-G - 1		62	0.018	1511405hg1	245.1_7470A	16 Apr 2018 14:48:15	Hg
460-153655-F-1-C - 1		93	0.022	8511405hg1	245.1_7470A	16 Apr 2018 14:49:57	Hg
460-153677-E-1-H - 1		185	0.037	0511405hg1	245.1_7470A	16 Apr 2018 14:51:43	Hg
460-153677-G-2-G - 1		81	0.021	0511405hg1	245.1_7470A	16 Apr 2018 14:53:26	Hg
460-153677-E-3-H - 1		-218	-0.025	1511405hg1	245.1_7470A	16 Apr 2018 14:55:08	Hg
460-153677-E-4-H - 1		-105	-0.007	7511405hg1	245.1_7470A	16 Apr 2018 14:56:51	Hg
460-153677-E-5-H - 1		-250	-0.030	1511405hg1	245.1_7470A	16 Apr 2018 14:58:32	Hg
CCV - 1		31558	97.5% 4.874	5511405hg1	245.1_7470A	16 Apr 2018 15:00:16	Hg
CCB - 1		-86	-0.004	8511405hg1	245.1_7470A	16 Apr 2018 15:01:57	Hg
460-153677-F-6-I - 1		-388	-0.051	3511405hg1	245.1_7470A	16 Apr 2018 15:03:44	Hg
460-153677-D-7-G - 1		187	0.037	3511405hg1	245.1_7470A	16 Apr 2018 15:05:28	Hg
460-153678-C-2-G - 1		125	0.027	8511405hg1	245.1_7470A	16 Apr 2018 15:07:13	Hg
460-153774-A-1-G - 1		77	0.020	4511405hg1	245.1_7470A	16 Apr 2018 15:08:55	Hg
460-153736-H-1-G - 1		-110	-0.008	5511405hg1	245.1_7470A	16 Apr 2018 15:10:37	Hg
460-153736-A-2-D - 1		-70	-0.002	3511405hg1	245.1_7470A	16 Apr 2018 15:12:20	Hg
460-153736-F-5-E - 1		236	0.044	9511405hg1	245.1_7470A	16 Apr 2018 15:14:03	Hg
460-153736-H-6-D - 1		-67	-0.001	8511405hg1	245.1_7470A	16 Apr 2018 15:15:48	Hg
460-153736-E-15-D - 1		-25	0.004	6511405hg1	245.1_7470A	16 Apr 2018 15:17:31	Hg
460-153736-G-16-E - 1		3	0.009	0511405hg1	245.1_7470A	16 Apr 2018 15:19:13	Hg
CCV - 1		31334	96.8% 4.840	0511405hg1	245.1_7470A	16 Apr 2018 15:20:56	Hg
CCB - 1		-288	-0.035	9511405hg1	245.1_7470A	16 Apr 2018 15:22:37	Hg
LB 460-511103/1-F - 1		-18	0.005	7511405hg1	245.1_7470A	16 Apr 2018 15:24:26	Hg
LB 460-510938/1-C - 1		14	0.010	7511405hg1	245.1_7470A	16 Apr 2018 15:26:08	Hg
LB 460-511195/1-E - 1		4	0.009	1511405hg1	245.1_7470A	16 Apr 2018 15:27:50	Hg
MB 460-511420/1-A - 1		-9	0.007	1511405hg1	245.1_7470A	16 Apr 2018 15:29:32	Hg
LCS 460-511420/2-A - 1		31722	4.899	8511405hg1	245.1_7470A	16 Apr 2018 15:31:14	Hg
460-153195-G-3-H - 1		89	0.022	2511405hg1	245.1_7470A	16 Apr 2018 15:32:56	Hg
460-153195-G-3-I DU - 1		297	0.054	3511405hg1	245.1_7470A	16 Apr 2018 15:34:43	Hg
460-153195-G-3-J MS - 1		31501	4.865	7511405hg1	245.1_7470A	16 Apr 2018 15:36:25	Hg
sd 460-153195-G-3-H@5 - 1		-159	-0.016	0511405hg1	245.1_7470A	16 Apr 2018 15:38:08	Hg
460-152892-F-1-E - 1		1063	0.172	4511405hg1	245.1_7470A	16 Apr 2018 15:39:55	Hg
CCV - 1		31402	97.0% 4.850	5511405hg1	245.1_7470A	16 Apr 2018 15:41:39	Hg
CCB - 1		-255	-0.030	8511405hg1	245.1_7470A	16 Apr 2018 15:43:20	Hg
460-152892-F-2-D - 1		1471	0.235	3511405hg1	245.1_7470A	16 Apr 2018 15:45:09	Hg
460-152892-D-3-H - 1		1964	0.311	3511405hg1	245.1_7470A	16 Apr 2018 15:46:51	Hg
460-152892-F-4-B - 1		2536	0.399	5511405hg1	245.1_7470A	16 Apr 2018 15:48:34	Hg
460-152892-F-5-C - 1		3512	0.550	0511405hg1	245.1_7470A	16 Apr 2018 15:50:18	Hg
460-152892-D-6-E - 1		3856	0.603	1511405hg1	245.1_7470A	16 Apr 2018 15:52:02	Hg
460-152892-E-7-F - 1		3749	0.586	6511405hg1	245.1_7470A	16 Apr 2018 15:53:45	Hg
460-152892-E-8-F - 1		2037	0.322	6511405hg1	245.1_7470A	16 Apr 2018 15:55:28	Hg
460-153195-G-1-O - 1		380	0.067	1511405hg1	245.1_7470A	16 Apr 2018 15:57:11	Hg
460-153195-G-2-G - 1		183	0.036	7511405hg1	245.1_7470A	16 Apr 2018 15:58:55	Hg
460-153195-H-4-G - 1		215	0.041	6511405hg1	245.1_7470A	16 Apr 2018 16:00:37	Hg
CCV - 1		31131	96.2% 4.808	7511405hg1	245.1_7470A	16 Apr 2018 16:02:21	Hg

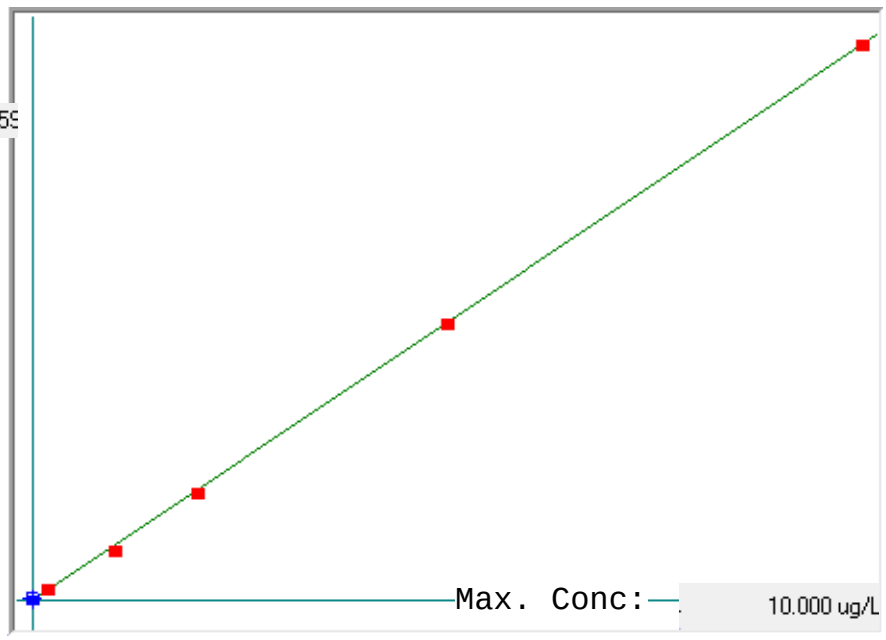
04162018-w

Method: 245.1_7470A Operator: Admin Date of Analysis: 16 Apr 2018 12:30:57

Sample ID	Extended ID	µ Abs.	Conc.	Chapter	Method	Date	Element
CCB - 1		-201	-0.0225	511405hg1	245.1_7470A	16 Apr 2018 16:04:04	Hg
460-153195-G-5-H - 1		278	0.0514	511405hg1	245.1_7470A	16 Apr 2018 16:05:54	Hg
460-153294-I-1-D - 1		495	0.0848	511405hg1	245.1_7470A	16 Apr 2018 16:07:37	Hg
LB 460-511196/1-C - 1		-190	-0.0208	511405hg1	245.1_7470A	16 Apr 2018 16:09:21	Hg
MB 460-511421/1-A - 1		-8	0.0073	511405hg1	245.1_7470A	16 Apr 2018 16:11:04	Hg
LCS 460-511421/2-A - 1		6338	0.9858	511405hg1	245.1_7470A	16 Apr 2018 16:12:47	Hg
460-153785-G-3-B - 1		-56	-0.0001	511405hg1	245.1_7470A	16 Apr 2018 16:14:29	Hg
460-153785-G-3-C DU - 1		-41	0.0022	511405hg1	245.1_7470A	16 Apr 2018 16:16:14	Hg
460-153785-G-3-D MS - 1		5629	0.8765	511405hg1	245.1_7470A	16 Apr 2018 16:17:57	Hg
sd 460-153785-G-3-B@5 - 1		-133	-0.0120	511405hg1	245.1_7470A	16 Apr 2018 16:19:39	Hg
460-153434-C-3-B - 1		24	0.0122	511405hg1	245.1_7470A	16 Apr 2018 16:21:24	Hg
CCV - 1		31339	96.8% 4.8408	511405hg1	245.1_7470A	16 Apr 2018 16:23:07	Hg
CCB - 1		-213	-0.0243	511405hg1	245.1_7470A	16 Apr 2018 16:24:49	Hg
460-153758-B-1-C - 1		-64	-0.0014	511405hg1	245.1_7470A	16 Apr 2018 16:26:38	Hg
460-153785-G-1-C - 1		-75	-0.0031	511405hg1	245.1_7470A	16 Apr 2018 16:28:23	Hg
460-153785-G-2-B - 1		-38	0.0026	511405hg1	245.1_7470A	16 Apr 2018 16:30:06	Hg
460-153785-G-4-B - 1		-2	0.0082	511405hg1	245.1_7470A	16 Apr 2018 16:31:49	Hg
460-153785-G-5-B - 1		5	0.0093	511405hg1	245.1_7470A	16 Apr 2018 16:33:34	Hg
460-153785-G-6-B - 1		-203	-0.0228	511405hg1	245.1_7470A	16 Apr 2018 16:35:16	Hg
460-153877-F-1-D - 1		382	0.0674	511405hg1	245.1_7470A	16 Apr 2018 16:37:02	Hg
460-153877-F-2-B - 1		458	0.0791	511405hg1	245.1_7470A	16 Apr 2018 16:38:44	Hg
CCV - 1		30839	95.3% 4.7637	511405hg1	245.1_7470A	16 Apr 2018 16:40:28	Hg
CCB - 1		-77	-0.0034	511405hg1	245.1_7470A	16 Apr 2018 16:42:09	Hg

245.1_7470A

Linear



A= 0.0000e+000

B= 1.5419e-004

C= 8.4958e-003

Rho= 0.9999321

Accept= Accepted

Accepted Date=

04/16/18 13:28

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Cal Blank	0.000	0.054	0.054	294	0.000	294				
0.2 ug/L	0.200	0.233	0.033	1459	0.0 %	1459				
1.0 ug/L	1.000	0.927	-0.073	5958	0.0 %	5958				
2.0 ug/L	2.000	1.973	-0.027	12739	0.0 %	12739				
5.0 ug/L	5.000	5.003	0.003	32394	0.0 %	32394				
10.0 ug/L	10.000	10.009	0.009	64859	0.0 %	64859				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	VesselNumber	FiltCompDate
LB 460-511103/1		1311, 3010A, 6010C		100 g	2000 mL	4.92 SU		BB0	4/14/18
460-153774-A-1	AshPit	1311, 3010A, 6010C	P	100.07 g	2000 mL	9.06 SU	1.67	AA2	4/14/18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
LB 460-511103/1		1311, 3010A, 6010C		0700	4.92 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		
460-153774-A-1	AshPit	1311, 3010A, 6010C	P	0830	6.14 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511164 Batch Start Date: 04/14/18 21:30 Batch Analyst: Esteban, Gared A

Batch Method: 3010A Batch End Date: 04/15/18 01:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_TCLPspk 00038			
MB 460-511164/1		3010A, 6010C		50 mL	50 mL				
LCS 460-511164/2		3010A, 6010C		50 mL	50 mL	0.5 mL			
460-153622-I-22 -B DU		3010A, 6010C	P	50 mL	50 mL				
460-153622-I-22 -B MS		3010A, 6010C	P	50 mL	50 mL	0.5 mL			
460-153774-A-1- A	AshPit	3010A, 6010C	P	50 mL	50 mL				
LB 460-511103/1-A		3010A, 6010C		50 mL	50 mL				

Batch Notes	
Batch Comment	1:1 DHCL MPR 344
Temperature - Corrected - Start	95 corr Degrees C
Digestion End Time	04/14/2018 23:30
Digestion Start Time	04/14/2018 21:30
Digestion Unit ID	#9
Nitric Acid ID	0000185595
Pipette/Syringe/Dispenser ID	# 43
Analyst ID - Spike Analyst	GE
Thermometer ID	ICP-3 (CF -2)
Digestion Tube/Cup ID	J295971-4191 (100ml Digi Tubs)
Temperature - Uncorrected - Start	97 uncorr Degrees C

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511103 Batch Start Date: 04/13/18 15:00 Batch Analyst: Gao, Yong X

Batch Method: 1311 Batch End Date: 04/16/18 14:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	VesselNumber	FiltCompDate
LB 460-511103/1		1311, 7470A, 7470A		100 g	2000 mL	4.92 SU		BB0	4/14/18
460-153774-A-1	AshPit	1311, 7470A, 7470A	P	100.07 g	2000 mL	9.06 SU	1.67	AA2	4/14/18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
LB 460-511103/1		1311, 7470A, 7470A		0700	4.92 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		
460-153774-A-1	AshPit	1311, 7470A, 7470A	P	0830	6.14 SU	TF1041218	TCLP fluid #1; prep. on 4/12/18; exp. on 10/12/18; pH measured on 4/14/18		

Batch Notes	
1N HCl ID	1N HCL TCLP 2222 exp 10/7/18
Balance ID	13
Filter ID	Environmental Express / 400146
pH Meter ID	H
Room Temperature Thermometer ID	R66589
TCLP Fluid 1 ID	TCLP Fluid 1 prepped on 4/12/18, exp 10/12/18
TCLP Fluid 1 pH	4.92
Maximum Temperature	23.6 Degrees C
Minimum Temperature	22.2 Degrees C
Thermometer ID	Ambient ID R66589; Temp 22.6c; Min/Max S/NC187675
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511405 Batch Start Date: 04/16/18 09:30 Batch Analyst: Sheikh, Razia B

Batch Method: 245.1 Batch End Date: 04/16/18 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_DCAL-IN 02986	ME_DQCS-INT 02714		
ICV 460-511405/31		245.1, 7470A		30 mL	30 mL		1.5 mL		
CCV 460-511405/33		245.1, 7470A		30 mL	30 mL	1.5 mL			

Batch Notes	
Digestion End Time	04/16/2018 12:15
Digestion Start Time	04/16/2018 10:15
Digestion Unit ID	11,12
Sulfuric Acid Lot Number	0000184525
Nitric Acid ID	ME_concHno3_000012
Hydroxylamine ID	ME_NACLHYDHCL_00084
Potassium Persulfate ID	ME_PotPersSol_00042
Potassium Permanganate ID	ME_potPermSol_00080
Pipette/Syringe/Dispenser ID	86,80,87
Ending Temperature	95,95 Degrees C
Starting Temperature	95,95 Degrees C
Thermometer ID	prep-2(cf-2),hg-1(cf+3)
Digestion Tube/Cup ID	1707186
Temperature - Uncorrected - End	97,92 Degrees C
Temperature - Uncorrected - Start	97,92 Degrees C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-153774-1

SDG No.:

Batch Number: 511409 Batch Start Date: 04/16/18 09:30 Batch Analyst: Sheikh, Razia B

Batch Method: 7470A Batch End Date: 04/16/18 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_HG_TCLP 02028			
MB 460-511409/1		7470A, 7470A		30 mL	30 mL				
LCS 460-511409/2		7470A, 7470A		30 mL	30 mL	0.3 mL			
460-153677-D-8-A DU		7470A, 7470A	P	30 mL	30 mL				
460-153677-D-8-A MS		7470A, 7470A	P	30 mL	30 mL	0.3 mL			
460-153774-A-1-A	AshPit	7470A, 7470A	P	30 mL	30 mL				
LB 460-511103/1-A		7470A, 7470A		30 mL	30 mL				

Batch Notes	
Digestion End Time	13.15
Digestion Start Time	11.15
Digestion Unit ID	11,12
Sulfuric Acid ID	0000184525
Nitric Acid ID	ME_concHno3_000012
Hydroxylamine ID	ME_NACLHYDHCL_00084
Potassium Persulfate ID	ME_PotPerssol_00042
Potassium Permanganate ID	ME_PotPermsol_00080
Pipette/Syringe/Dispenser ID	86,80,87
Ending Temperature	95,95 Degrees C
Starting Temperature	95,95 Degrees C
Thermometer ID	prep-2(cf-2),hg1(cf+3)
Digestion Tube/Cup ID	1707186
Temperature - Uncorrected - End	97,92 Degrees C
Temperature - Uncorrected - Start	97,92 Degrees C

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

NYSC 45050

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Janelle Cooley	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-94787-60071.1
Client Contact: Ms. Heather Moran-Botta	Phone: 631-432-6717	E-Mail: melissa.haas@testamericainc.com		Page: Page 1 of 2
Company: PW Grosser Consulting				Job #: 153774
Address: 630 Johnson Ave Suite 7	Due Date Requested: 4-16-18			
City: Bohemia	TAT Requested (days): RUSH-3 Day			
State, Zip: NY, 11716				
Phone: 631-294-0678(Tel)	PO #: ~~Purchase Order Requested~~ STID1801			
Email: hmoran-botta@pwgrosser.com	WO #: STID1801			
Project Name: Suffolk County Firematics SiteSPLP PFAS	Project #: 46024260			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCLP Metals	TCLP SVOC	TCLP Herbicides	TCLP Pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X					X	
Ash Pit	4-11-18	1145	C	Solid			X	X	X	X	2	1
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

460-153774 Chain of Custody

3-Day RUSH

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 4/11/18 1330	Company	Received by:	Date/Time: 4/11/18 1436	Company TA
Relinquished by:	Date/Time: 4/11/18 1900	Company FIA	Received by:	Date/Time: 4/11/18 1900	Company TA Edi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

1.4 (1.4 IR# 11 NGC)

Ver: 08/04/2016

TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 153774

Number of Coolers: 1 **IR Gun #** 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.4 °C	1.4 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 4/11/18

Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-153774-1

Login Number: 153774
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ALPHA ANALYTICAL

World Class Chemistry

www.alphalab.com

Lab Number: L1808174

Client: P.W. Grosser

ATTN: Heather Moran-Botta

Project Name: SHD1801

Project Number: SHD1801

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

Alpha Analytical Data Deliverable Package 1
- Table of Contents 2
- Sample Delivery Group 4
  - Sample Receipt and Login Checklist 5
  - LIMS Chain of Custody 6
    - Lims COC (LN01) 7
  - Container Tracking 8
    - Sample Receipt Tracking Report 9
  - Chain of Custody 10
    - External Chain of Custody 11
- Organics Analysis 12
  - PFAAs via EPA 537 13
    - Initial Calibration 14
      - ICAL for LCMS01 on 03/22/18 ICAL14576 15
      - Initial Calibration Summary - Cal Date: 03/22/18 09:24 15
      - STD0.50 Injected on: 03/21/18 15:52 73
      - STD01.0 Injected on: 03/21/18 16:08 133
      - STD02.0 Injected on: 03/21/18 16:25 193
      - STD05.0 Injected on: 03/21/18 16:41 253
      - STD010 Injected on: 03/21/18 16:58 313
      - STD050 Injected on: 03/21/18 17:15 373
      - STD125 Injected on: 03/21/18 17:48 433
      - STD150 Injected on: 03/21/18 18:04 493
      - ICV Injected on: 03/21/18 18:21 553
    - Work Group 613
      - QC Batch WG1101262 614
    - Sequence Logs 615
      - ICAL Sequence for LCMS01 on 22-MAR-2018 09:24 ICAL14576 616
      - Sequence Log 618
    - Analytical Event 620
      - Continuing Calibration 621
        - CC Quant - LCMS01 Run: 03/29/18 14:27 622
        - CC Quant - WG1101624-3 LCMS01 Run: 03/29/18 14:27 669
      - Sample Raw Data 716
      - CONCRETE (0-2) (L1808174-01) Analyzed: 03/29/18 18:01 717
      - CONCRETE (5-7) (L1808174-02) Analyzed: 03/29/18 18:17 772
    - Batch Quality Control 827
      - Method Blank Raw Data 828
        - Laboratory Method Bl (WG1101262-1) Analyzed: 03/29/18 16:22 829
      - LCS Raw Data 884
        - Laboratory Control S (WG1101262-2) Analyzed: 03/29/18 16:38 885
      - LCS Duplicate Raw Data 940
        - LCS Duplicate (WG1101262-3) Analyzed: 03/29/18 16:55 941
      - Sample Utilized For QC 996
        - Sample Utilized For QC Raw Data 997
      - Duplicate Raw Data 998
        - Duplicate Sample (WG1101262-4) Analyzed: 03/29/18 17:28 999
      - MS/MSD Raw Data 1039
        - Matrix Spike (WG1101262-5) Analyzed: 03/29/18 18:34 1040
    - Sample Preparation 1095

Table of Contents

Organic ELN-Workgroup:WG1101262 1096
Wet Chemistry Analysis 1098
Total Solids Analysis 1099
Sample Raw Data 1100
Wet Chemistry Raw Data 1101
Work Group 1102
QC Batch WG1100961 1103
Alpha Analytical Report 1104
Standard Analytical Report 1105
Summary 1105
Alpha Analytical Report Cover Page 1105
Sample Cross Reference Summary 1106
Case Narrative 1107
Organics Cover Page 1110
Semivolatiles Cover Page 1111
Semivolatiles Sample Results 1112
Semivolatiles Method Blank Report 1116
Semivolatiles LCS Report 1118
Semivolatiles Matrix Spike Report 1120
Inorganics Cover Page 1122
Wet Chemistry Sample Results 1123
Wet Chemistry Duplicate Report 1125
Sample Receipt & Container Information Report 1126
Glossary 1127
References 1129
Certification/Approval Program Summary 1130
Chain of Custody 1131
Alpha Summary Forms 1132
Organic Summary Forms 1133
Organic Summary Forms PFAAs by EPA 537 1134
Form 1 1134
Form 2 1140
Form 3 1141
Form 4 1145
Form 6 1146
Form 7 1204
Form 8 1207

Sample Delivery Group Information

Sample Delivery Group Summary

Alpha Job Number : L1808174

Account Name : P. W. Grosser
Project Number : SHD1801
Project Name : SHD1801

Received : 09-MAR-2018
Reviewer : Craig Green

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.4	

Condition Information

All samples on COC received?	**YES**
Extra samples received?	**NO**
Are there any sample container discrepancies?	**NO**
Are there any discrepancies between sample labels & COC?	**NO**
Are samples in appropriate containers for requested analysis?	**YES**
Are samples properly preserved for requested analysis?	**YES**
Are samples within holding time for requested analysis?	**YES**
All sampling equipment returned?	**NA**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client?	**NA**

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Apr 03 2018, 02:34 pm

Login Number: L1808174
Account: PWGROSSER P. W. GrosserProject: SHD1801
Received: 09MAR18 Due Date: 06APR18

Sample #	Client ID	Mat	PR	Collected	Container
L1808174-01	CONCRETE (0-2")	3	S0	09MAR18 12:00	1-Plastic-A.5
| DPKG-FULL Package Due Date: 04/06/18					
A2-537-ISOTOPE,A2-TS,DPKG-FULL,HOLD-CONTINGENCY					
L1808174-02	CONCRETE (5-7")	3	S0	09MAR18 12:00	1-Plastic-A.5
| Package Due Date: 04/06/18					
A2-537-ISOTOPE,A2-TS,HOLD-CONTINGENCY					

Logged By: Kim L. Bailey

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID	Type	Status	Transaction Date	From Response	From Location	From Operator	To Response	To Location	To Operator
L1808174-01A	Plastic-A.5	INTACT	28-MAR-18	A2-ORGANIC PREP	A2-ORGANIC PREP	Phil Bassignani	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Phil Bassignani
L1808174-01A	Plastic-A.5	INTACT	28-MAR-18	CUSTODY	A2-CUSTODY-MET4-S7	Phil Bassignani	A2-ORGANIC PREP	A2-ORGANIC PREP	Phil Bassignani
L1808174-01A	Plastic-A.5	INTACT	27-MAR-18	A2-CUSTODY-REFRIDGE	A2-CUSTODY-MET4-S7	Lauren Dingle	A2-CUSTODY-MET4-S7	A2-CUSTODY-MET4-S7	Lauren Dingle
L1808174-01A	Plastic-A.5	INTACT	26-MAR-18	TRANSIT COURIER	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macconnell	A2-CUSTODY-MET4-S7	A2-CUSTODY-MET4-S7	Jessica Macconnell
L1808174-01A	Plastic-A.5	INTACT	26-MAR-18	COOLER3-TRANSFER_TO_MANSFIELD	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macconnell	TRANSIT COURIER	COOLER3-TRANSFER_TO_MANSFIELD	J
L1808174-01A	Plastic-A.5	INTACT	26-MAR-18	CUSTODY	W14-S4-B CUSTODY	Jessica Macconnell	COOLER3-TRANSFER_TO_MANSFIELD	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macco
L1808174-01A	Plastic-A.5	INTACT	11-MAR-18		CUSTODY	Sam Bardsley	W14-S4-B CUSTODY	W14-S4-B CUSTODY	Sam Bardsley
L1808174-01A	Plastic-A.5	INTACT	10-MAR-18	LOGIN	LOGIN	Craig Green	CUSTODY	CUSTODY	Craig Green
L1808174-02A	Plastic-A.5	INTACT	28-MAR-18	A2-ORGANIC PREP	A2-ORGANIC PREP	Phil Bassignani	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Phil Bassignani
L1808174-02A	Plastic-A.5	INTACT	28-MAR-18	CUSTODY	A2-CUSTODY-MET4-S7	Phil Bassignani	A2-ORGANIC PREP	A2-ORGANIC PREP	Phil Bassignani
L1808174-02A	Plastic-A.5	INTACT	27-MAR-18	A2-CUSTODY-REFRIDGE	A2-CUSTODY-MET4-S7	Lauren Dingle	A2-CUSTODY-MET4-S7	A2-CUSTODY-MET4-S7	Lauren Dingle
L1808174-02A	Plastic-A.5	INTACT	26-MAR-18	TRANSIT COURIER	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macconnell	A2-CUSTODY-MET4-S7	A2-CUSTODY-MET4-S7	Jessica Macconnell
L1808174-02A	Plastic-A.5	INTACT	26-MAR-18	COOLER3-TRANSFER_TO_MANSFIELD	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macconnell	TRANSIT COURIER	COOLER3-TRANSFER_TO_MANSFIELD	J
L1808174-02A	Plastic-A.5	INTACT	26-MAR-18	CUSTODY	W14-S4-B CUSTODY	Jessica Macconnell	COOLER3-TRANSFER_TO_MANSFIELD	COOLER3-TRANSFER_TO_MANSFIELD	Jessica Macco
L1808174-02A	Plastic-A.5	INTACT	11-MAR-18		CUSTODY	Sam Bardsley	W14-S4-B CUSTODY	W14-S4-B CUSTODY	Sam Bardsley
L1808174-02A	Plastic-A.5	INTACT	10-MAR-18	LOGIN	LOGIN	Craig Green	CUSTODY	CUSTODY	Craig Green

Chain of Custody

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/9/18

ALPHA Job #: L1809174

Client Information

Client: PWGR
Address: 630 Johnson Ave Ste 7
Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: andy.l@pwgrosser.com

Project Information

Project Name: SHD1801
Project Location: Yaphank, NY
Project #
(Use Project name as Project #) [X]
Project Manager: Heather Moran-Botta
ALPHAQuote #:

Turn-Around Time

Standard [ ] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[X] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	24hr								Sample Specific Comments	Total Bottle
08174-01	Concrete (0-2")	3/9/18	1200	C	NF	X								Hold	
-02	Concrete (5-7")	↓	↓	↓	↓	X								Hold	

Container Type: P
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/18 1400		3/9/18 1400
	3/9/18 1423		3/9/18 1423
	3/9/18 2315		3/9/18 2315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

PFAAs by EPA 537

Initial Calibration

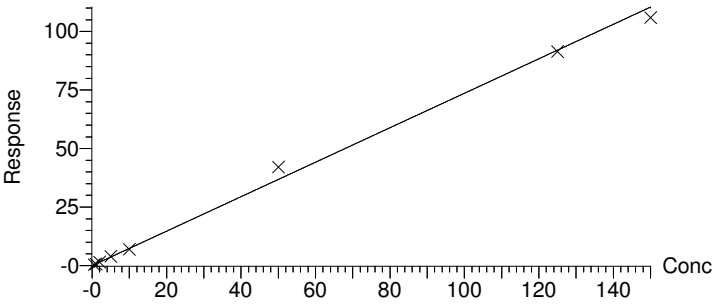
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.268	60868.441	2197.378	0.490	98.1	0.722	153		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.262	57681.168	3942.712	0.929	92.9	0.684	369		0.43
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.268	55827.281	8219.394	2.000	100.0	0.736	557		0.43
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.262	55653.156	21967.232	5.362	107.2	0.789	785		0.48
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.268	55976.352	39191.367	9.512	95.1	0.700	3072		0.49
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.262	53737.766	225857.484	57.099	114.2	0.841	9033		0.41
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.262	53419.461	488510.438	124.237	99.4	0.732	19577		0.46
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.262	52955.629	560799.250	143.870	95.9	0.706	28617		0.48

Compound name: PFBA
Coefficient of Determination: R^2 = 0.995980
Calibration curve: 0.736078 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



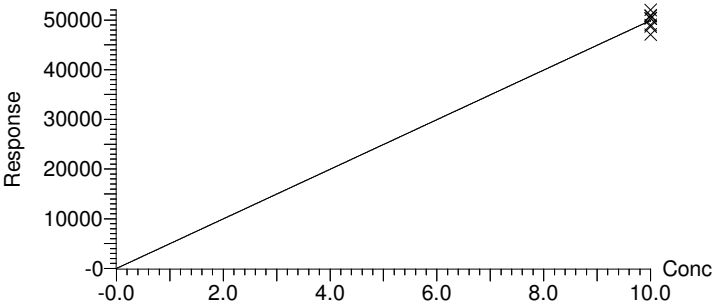
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.264		50946.270	10.208	102.1	5094.627	5746		0.55
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.259		52028.402	10.425	104.3	5202.840	11159		0.69
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.264		50370.258	10.093	100.9	5037.026	3355		0.61
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.264		49021.660	9.823	98.2	4902.166	7155		0.66
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.264		50312.719	10.081	100.8	5031.272	5212		0.60
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.259		47098.000	9.437	94.4	4709.800	5454		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.259		50780.102	10.175	101.8	5078.010	8659		0.59
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.259		48690.582	9.756	97.6	4869.058	3914		0.80

Compound name: M3PFBA
Response Factor: 4990.6
RRF SD: 155.269, % Relative SD: 3.11123
Response type: External Std, Area
Curve type: RF



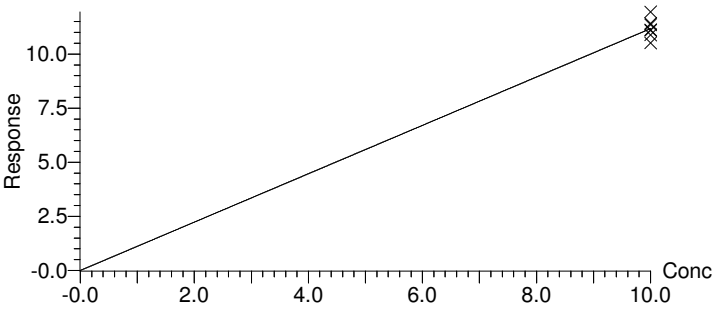
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.261	50946.270	60868.441	10.691	106.9	1.195	15241		1.18
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.261	52028.402	57681.168	9.921	99.2	1.109	6173		0.85
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.261	50370.258	55827.281	9.918	99.2	1.108	2706		1.03
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.261	49021.660	55653.156	10.159	101.6	1.135	9430		1.21
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.261	50312.719	55976.352	9.956	99.6	1.113	11010		0.69
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.261	47098.000	53737.766	10.210	102.1	1.141	11606		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.261	50780.102	53419.461	9.414	94.1	1.052	8948		1.21
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.255	48690.582	52955.629	9.732	97.3	1.088	11866		1.12

Compound name: MPFBA
Response Factor: 1.11752
RRF SD: 0.0417651, % Relative SD: 3.73731
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



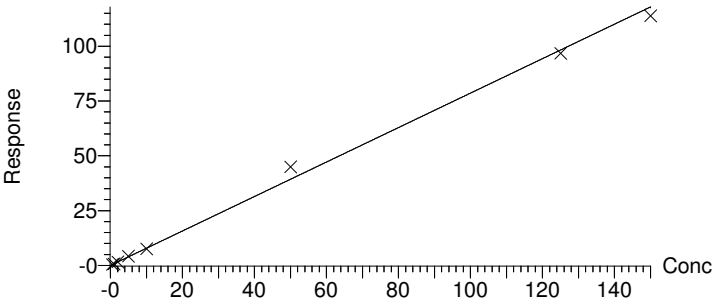
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	5.673	62807.227	2371.113	0.480	96.0	0.755	132		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	5.668	60794.992	4748.729	0.993	99.3	0.781	166		0.74
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	5.670	58121.734	9186.643	2.010	100.5	0.790	184		0.60
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	5.668	57553.336	24638.668	5.445	108.9	0.856	1750		0.57
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	5.664	58500.641	44280.383	9.627	96.3	0.757	2684		0.69
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	5.664	54996.031	247064.516	57.137	114.3	0.898	18311		0.67
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	5.662	54356.898	525874.625	123.046	98.4	0.774	22369		0.64
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	5.653	52807.184	601037.000	144.760	96.5	0.759	11218		0.73

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.996073
Calibration curve: 0.786246 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



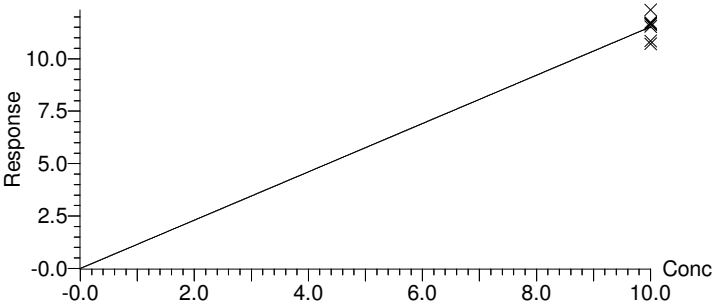
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	5.673	50946.270	62807.227	10.703	107.0	1.233	2190		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	5.669	52028.402	60794.992	10.145	101.4	1.168	3752		0.71
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	5.667	50370.258	58121.734	10.018	100.2	1.154	4351		0.65
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	5.665	49021.660	57553.336	10.193	101.9	1.174	6243		0.62
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	5.665	50312.719	58500.641	10.095	100.9	1.163	5961		0.68
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	5.665	47098.000	54996.031	10.138	101.4	1.168	2271		0.65
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	5.658	50780.102	54356.898	9.293	92.9	1.070	5852		0.66
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	5.650	48690.582	52807.184	9.416	94.2	1.085	6815		0.73

Compound name: M5PFPEA
Response Factor: 1.15183
RRF SD: 0.0519012, % Relative SD: 4.50597
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



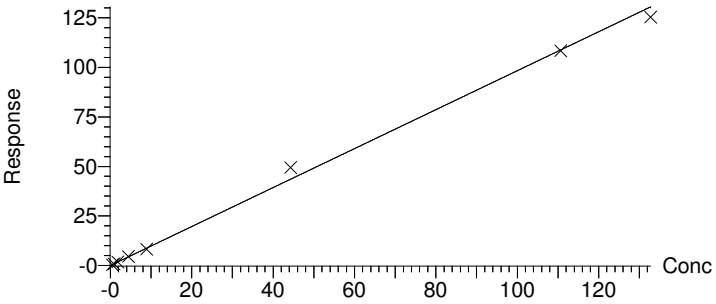
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	6.420	10840.279	416.896	0.391	88.4	0.869	33		0.56
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	6.407	10471.829	884.932	0.859	97.1	0.955	94		0.69
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	6.405	10031.390	1709.698	1.733	97.9	0.963	140		0.61
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	6.400	9940.611	4520.843	4.624	104.5	1.028	620		0.64
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	6.400	10015.363	8202.292	8.328	94.1	0.925	956		0.65
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	6.400	9632.964	47576.504	50.221	113.5	1.116	5656		0.67
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	6.395	9258.362	100423.344	110.295	99.7	0.980	7252		0.62
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	6.390	9147.198	114734.828	127.545	96.1	0.945	15994		0.71

Compound name: PFBS
Coefficient of Determination: R^2 = 0.996359
Calibration curve: 0.98343 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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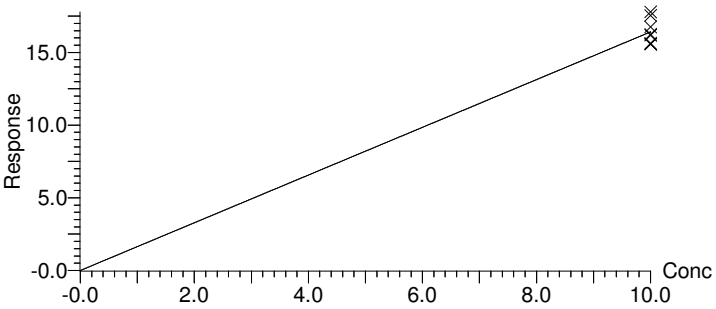
Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	6.415	6470.397	10840.279	10.207	102.1	1.675	2392		0.58
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	6.407	6699.228	10471.829	9.524	95.2	1.563	1899		0.70
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	6.405	6432.927	10031.390	9.501	95.0	1.559	1240		0.63
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	6.400	6146.833	9940.611	9.853	98.5	1.617	771		0.60
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	6.398	6436.869	10015.363	9.480	94.8	1.556	1734		0.64
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	6.395	5415.272	9632.964	10.838	108.4	1.779	3069		0.70
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	6.395	5696.055	9258.362	9.903	99.0	1.625	434		0.61
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	6.387	5210.555	9147.198	10.696	107.0	1.756	399		0.70

Compound name: M3PFBS
Response Factor: 1.64135
RRF SD: 0.0878846, % Relative SD: 5.35442
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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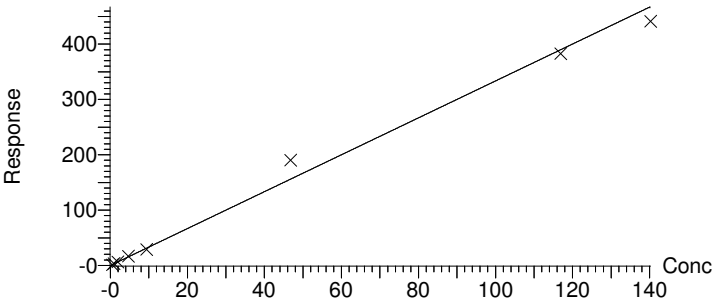
Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.606	1427.403	184.111	0.387	82.7	2.759	5		0.82
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.601	1245.897	445.579	1.072	114.7	3.825	35		0.86
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.591	1255.025	772.307	1.845	98.7	3.291	39		0.99
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.579	1306.417	2185.058	5.015	107.3	3.578	307		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.583	1312.569	3831.256	8.752	93.6	3.122	77		0.94
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.583	1173.378	22300.717	56.989	121.9	4.065	3575		0.92
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.577	1252.860	47998.543	114.878	98.3	3.278	708		1.28
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.573	1247.422	55009.715	132.233	94.3	3.144	6128		1.95

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.990802
Calibration curve: 3.33493 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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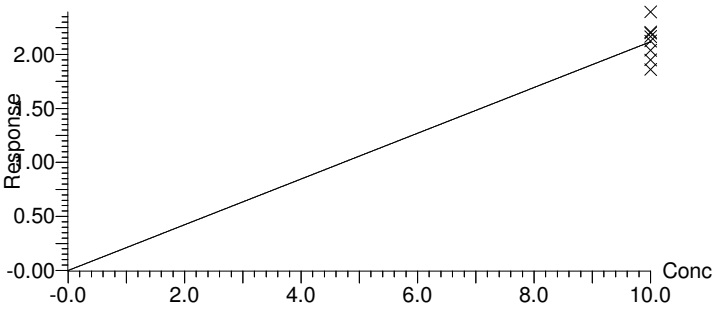
Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.599	6470.397	1427.403	10.417	104.2	0.221	65		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.599	6699.228	1245.897	8.782	87.8	0.186	53		0.87
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.587	6432.927	1255.025	9.213	92.1	0.195	214		0.91
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.589	6146.833	1306.417	10.036	100.4	0.213	185		0.88
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.587	6436.869	1312.569	9.629	96.3	0.204	86		0.89
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.585	5415.272	1173.378	10.232	102.3	0.217	164		0.79
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.583	5696.055	1252.860	10.386	103.9	0.220	28		0.76
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.573	5210.555	1247.422	11.305	113.0	0.239	55		0.73

Compound name: M2-4:2FTS
Response Factor: 0.21177
RRF SD: 0.0166407, % Relative SD: 7.85793
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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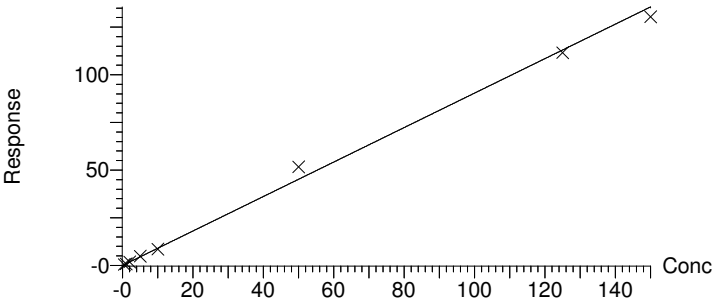
Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.680	65093.461	3003.808	0.510	102.1	0.923	120		0.82
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.672	64638.195	5924.188	1.014	101.4	0.917	91		0.91
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.662	61458.980	11520.529	2.074	103.7	0.937	448		0.98
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.659	59982.352	29627.682	5.464	109.3	0.988	1280		0.93
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.657	61247.379	52097.707	9.410	94.1	0.851	195		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.657	56178.926	290765.844	57.255	114.5	1.035	10302		0.99
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.653	55001.734	614264.125	123.544	98.8	0.893	14893		1.00
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.647	53187.797	693457.938	144.229	96.2	0.869	18943		1.06

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.995806
Calibration curve: 0.903974 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



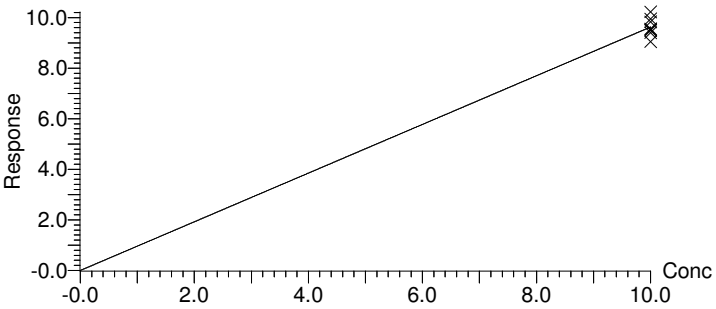
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.676	63674.309	65093.461	10.621	106.2	1.022	3050		0.94
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.670	65765.875	64638.195	10.211	102.1	0.983	4731		1.02
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.661	64792.219	61458.980	9.855	98.5	0.949	4045		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.657	60313.320	59982.352	10.332	103.3	0.995	4209		1.02
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.657	64321.379	61247.379	9.893	98.9	0.952	480		0.97
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.655	58821.836	56178.926	9.923	99.2	0.955	3318		0.98
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.651	60789.090	55001.734	9.400	94.0	0.905	578		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.645	56591.422	53187.797	9.765	97.6	0.940	3194		1.05

Compound name: M5PFHxA
Response Factor: 0.962517
RRF SD: 0.0362761, % Relative SD: 3.76888
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



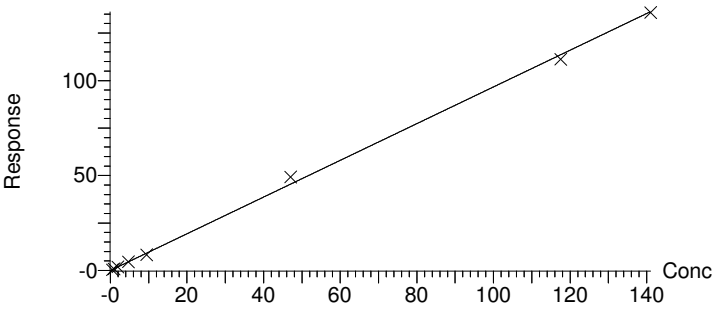
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.019	10749.135	352.847	0.340	72.3	0.698	21		0.70
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.999	9889.984	774.932	0.811	86.2	0.834	65		1.03
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.993	9328.913	1742.268	1.932	102.8	0.993	112		0.96
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.991	9331.232	4258.491	4.722	100.5	0.971	499		1.04
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.988	9514.957	7850.656	8.537	90.8	0.878	316		1.09
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.985	8811.972	43393.000	50.948	108.4	1.048	3787		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.980	8008.927	89054.805	115.044	97.9	0.946	4149		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.975	7615.321	103456.477	140.557	99.7	0.963	6501		1.08

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.998321
Calibration curve: 0.966536 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



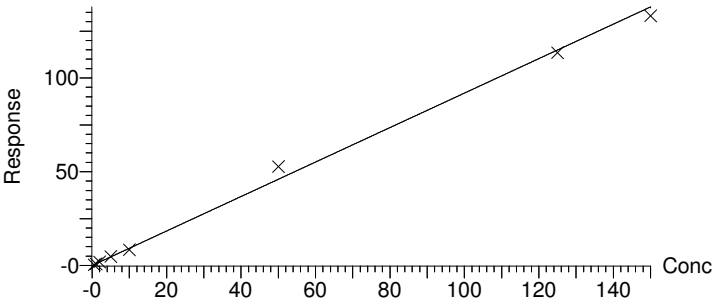
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.965	74122.258	3067.328	0.450	90.0	0.828	177		1.27
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.955	72324.695	6035.983	0.908	90.8	0.835	325		0.98
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.950	68484.641	12765.934	2.028	101.4	0.932	562		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.940	69974.242	34014.195	5.288	105.8	0.972	1581		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.940	70402.258	58755.344	9.078	90.8	0.835	2534		0.97
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.940	63319.195	333951.750	57.369	114.7	1.055	11765		1.04
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.935	61908.684	702832.250	123.490	98.8	0.908	22166		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.930	60853.926	810574.563	144.889	96.6	0.888	29044		1.02

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.995759
Calibration curve: 0.919323 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



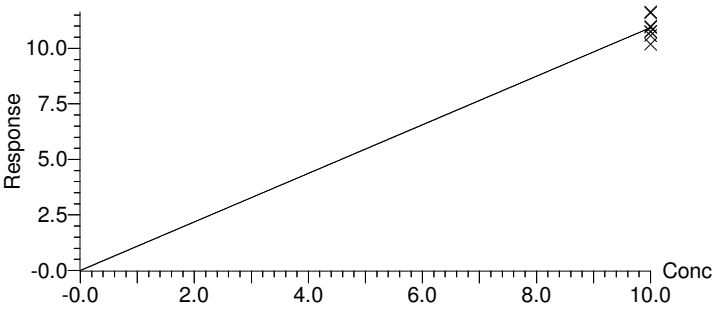
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.960	63674.309	74122.258	10.648	106.5	1.164	3396		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.955	65765.875	72324.695	10.060	100.6	1.100	3558		0.99
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.945	64792.219	68484.641	9.669	96.7	1.057	3624		1.07
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.945	60313.320	69974.242	10.613	106.1	1.160	3726		0.99
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.940	64321.379	70402.258	10.012	100.1	1.095	4054		0.98
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.940	58821.836	63319.195	9.847	98.5	1.076	2783		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.935	60789.090	61908.684	9.316	93.2	1.018	3689		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.930	56591.422	60853.926	9.836	98.4	1.075	2482		1.04

Compound name: M4PFHpA
Response Factor: 1.09321
RRF SD: 0.0493657, % Relative SD: 4.51565
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



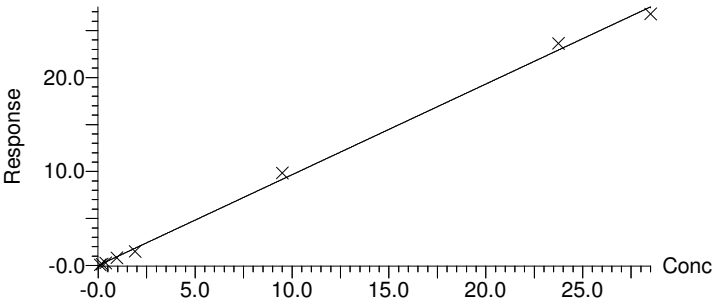
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.817	10749.135	66.189	0.064	67.1	0.648	3		2.54
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.885	9889.984	128.106	0.134	70.6	0.682	6		0.62
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.874	9328.913	260.569	0.289	76.1	0.735	15		1.04
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.874	9331.232	754.238	0.837	88.1	0.851	10		0.79
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.869	9514.957	1431.516	1.558	82.0	0.792	73		0.78
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.869	8811.972	8673.705	10.195	107.3	1.036	219		0.95
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.869	8008.927	18924.422	24.474	103.0	0.995	817		0.88
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.859	7615.321	20375.871	27.713	97.2	0.939	340		0.75

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.996549
Calibration curve: 0.965477 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



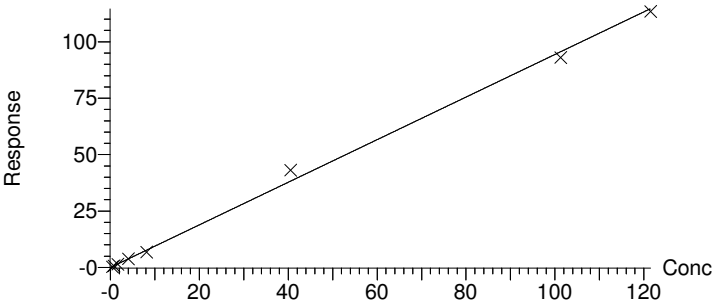
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.123	10749.135	337.282	0.332	82.1	0.775	22		1.13
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.118	9889.984	763.544	0.818	101.0	0.953	59		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.107	9328.913	1289.308	1.464	90.4	0.853	130		1.24
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.107	9331.232	3529.009	4.007	98.9	0.934	86		1.15
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.102	9514.957	6480.811	7.216	89.1	0.841	551		1.09
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.102	8811.972	38003.703	45.692	112.8	1.065	1567		1.49
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.097	8008.927	74462.211	98.502	97.3	0.918	5188		1.43
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.092	7615.321	86401.727	120.204	98.9	0.934	2338		1.41

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.996703
Calibration curve: 0.943879 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



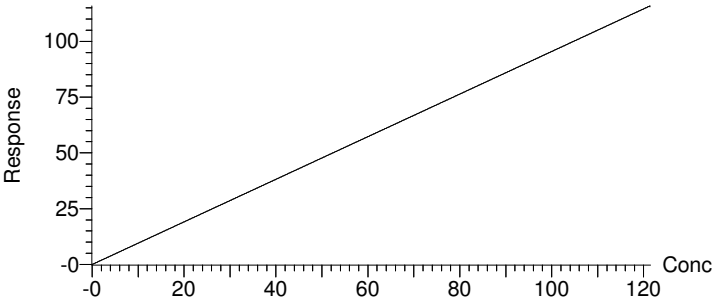
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		10749.135	403.471	0.396					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		9889.984	891.650	0.952					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		9328.913	1549.877	1.754					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		9331.232	4283.247	4.844					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		9514.957	7912.327	8.774					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		8811.972	46677.408	55.887					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		8008.927	93386.633	122.976					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		7615.321	106777.598	147.917					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 0.954678 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



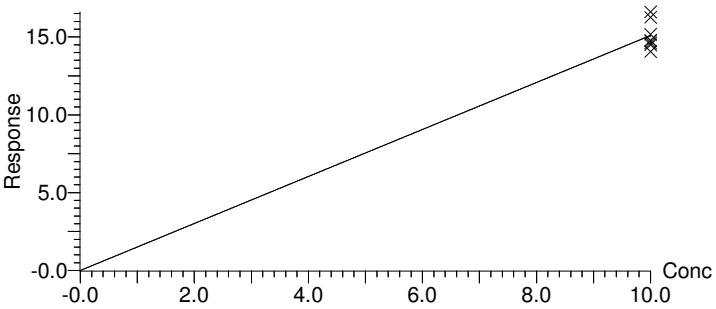
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.128	6470.397	10749.135	11.003	110.0	1.661	899		1.11
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.118	6699.228	9889.984	9.778	97.8	1.476	1064		1.25
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.113	6432.927	9328.913	9.605	96.0	1.450	590		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.108	6146.833	9331.232	10.054	100.5	1.518	838		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.102	6436.869	9514.957	9.790	97.9	1.478	1136		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.102	5415.272	8811.972	10.778	107.8	1.627	978		1.19
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.097	5696.055	8008.927	9.312	93.1	1.406	531		1.08
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.092	5210.555	7615.321	9.680	96.8	1.462	937		1.09

Compound name: M3PFHxS
Response Factor: 1.50985
RRF SD: 0.089106, % Relative SD: 5.90164
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



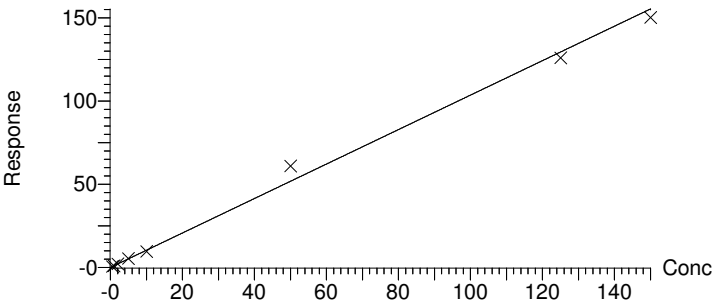
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		65050.063							
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		63357.285							
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		61715.293							
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		62119.594							
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		62540.145							
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		57407.289							
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		54629.637							
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		54074.738							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.994168
Calibration curve: 1.03652 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



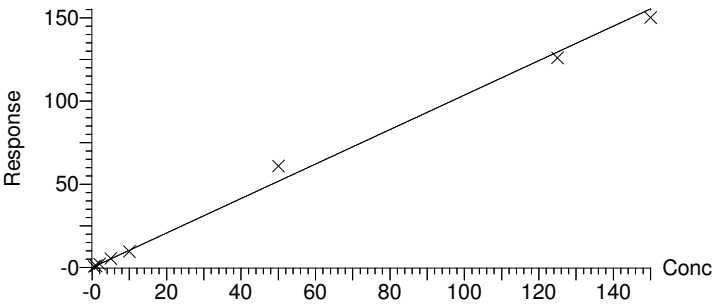
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.897	65050.063	3385.730	0.502	100.4	1.041	170		0.78
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.886	63357.285	6592.017	1.004	100.4	1.040	293		1.20
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881	61715.293	13236.338	2.069	103.5	1.072	683		0.79
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.875	62119.594	33332.746	5.177	103.5	1.073	1159		0.89
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870	62540.145	60677.980	9.360	93.6	0.970	2456		1.30
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870	57407.289	350681.094	58.934	117.9	1.222	16149		2.11
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865	54629.637	688052.938	121.511	97.2	1.008	18743		2.41
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859	54074.738	812399.688	144.943	96.6	1.002	15923		2.40

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.994168
Calibration curve: 1.03652 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



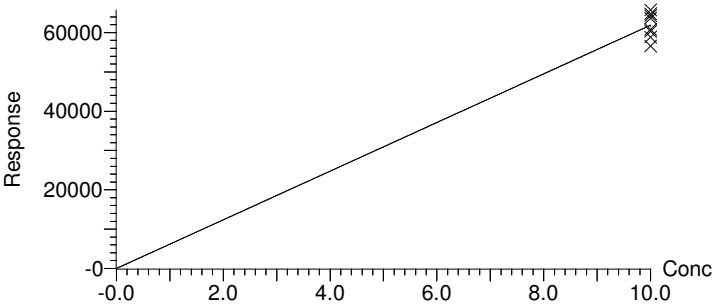
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.897		63674.309	10.289	102.9	6367.431	3551		1.68
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.887		65765.875	10.627	106.3	6576.587	4371		1.82
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881		64792.219	10.470	104.7	6479.222	2980		1.34
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.876		60313.320	9.746	97.5	6031.332	3708		1.47
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870		64321.379	10.394	103.9	6432.138	3816		2.38
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870		58821.836	9.505	95.1	5882.184	2850		1.48
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865		60789.090	9.823	98.2	6078.909	4195		1.32
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859		56591.422	9.145	91.4	5659.142	3480		2.45

Compound name: M2PFOA
Coefficient of Determination: R^2 = 0.000000
Calibration curve: 6188.37 * x
Response type: External Std, Area
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



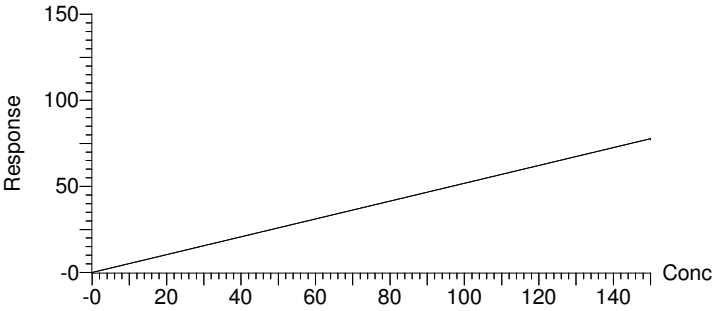
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		65050.063	3385.730	0.502					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		63357.285	6592.017	1.004					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		61715.293	13236.338	2.069					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		62119.594	33332.746	5.177					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		62540.145	60677.980	9.360					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		57407.289	350681.094	58.934					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		54629.637	688052.938	121.511					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		54074.738	812399.688	144.943					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.518261 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



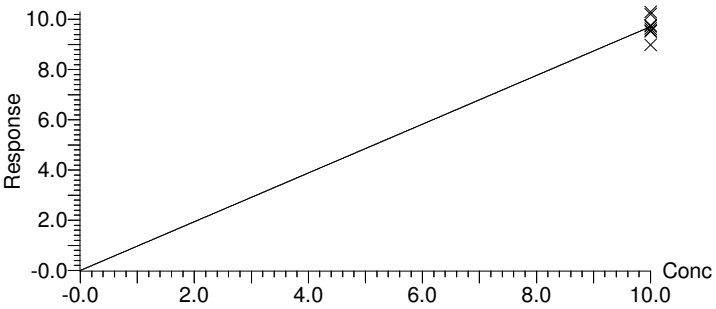
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.898	63674.309	65050.063	10.519	105.2	1.022	3685		1.07
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.887	65765.875	63357.285	9.919	99.2	0.963	1644		1.02
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881	64792.219	61715.293	9.807	98.1	0.953	2890		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.876	60313.320	62119.594	10.604	106.0	1.030	4706		1.07
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870	64321.379	62540.145	10.011	100.1	0.972	3007		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870	58821.836	57407.289	10.049	100.5	0.976	2544		1.06
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865	60789.090	54629.637	9.253	92.5	0.899	2497		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859	56591.422	54074.738	9.838	98.4	0.956	3047		1.09

Compound name: M8PFOA
Response Factor: 0.971238
RRF SD: 0.0412862, % Relative SD: 4.25089
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



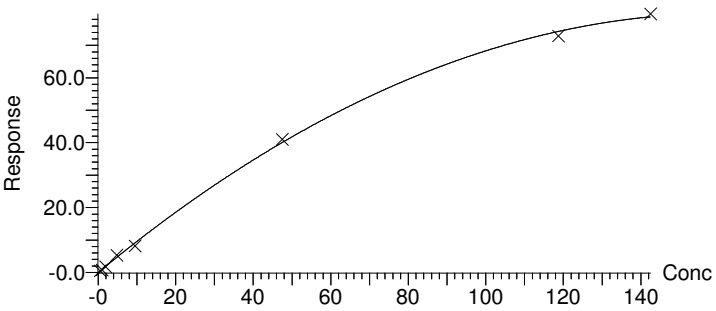
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.860	4226.249	190.334	0.456	96.0	0.948	2		0.81
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.849	4399.333	347.555	0.800	84.3	0.832	21		0.96
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.843	4295.251	758.968	1.796	94.5	0.930	128		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.838	4019.489	2154.986	5.513	116.1	1.129	377		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.833	4345.167	3562.035	8.510	89.6	0.863	288		0.96
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.833	4940.203	20292.779	48.925	103.0	0.865	842		0.99
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.827	5712.235	41637.551	113.643	95.7	0.614	3115		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.822	6110.131	48698.254	153.091	107.4	0.559	2618		1.11

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.997878
Calibration curve: -0.00306225 * x^2 + 0.989414 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



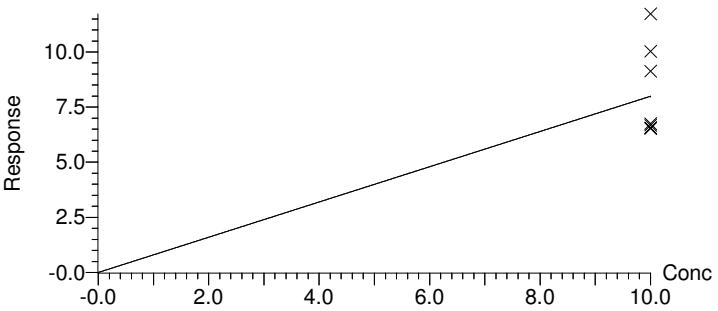
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.860	6470.397	4226.249	8.172	81.7	0.653	743		0.97
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.849	6699.228	4399.333	8.216	82.2	0.657	325		1.08
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.844	6432.927	4295.251	8.354	83.5	0.668	453		1.12
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.833	6146.833	4019.489	8.181	81.8	0.654	137		1.09
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.833	6436.869	4345.167	8.446	84.5	0.675	1235		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.833	5415.272	4940.203	11.414	114.1	0.912	669		1.15
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.827	5696.055	5712.235	12.547	125.5	1.003	433		1.11
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.822	5210.555	6110.131	14.671	146.7	1.173	337		1.09

Compound name: M2-6:2FTS
Response Factor: 0.799284
RRF SD: 0.203247, % Relative SD: 25.4287
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



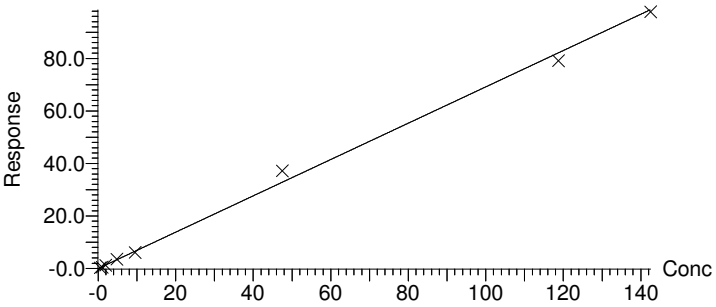
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.991	8469.573	218.693	0.373	78.6	0.544	4463		1.39
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.980	8142.674	440.078	0.781	82.2	0.569	7		1.34
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.974	7798.730	953.915	1.768	93.0	0.644	133		1.38
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.963	7441.749	2633.019	5.114	107.7	0.745	67		1.31
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.958	7586.068	4604.563	8.773	92.3	0.639	472		1.37
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.958	7113.925	26450.846	53.741	113.1	0.783	1665		1.36
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.958	6548.564	51834.285	114.404	96.3	0.667	610		1.37
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.952	6141.485	60070.633	141.371	99.2	0.686	6201		1.47

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.996383
Calibration curve: 0.691876 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



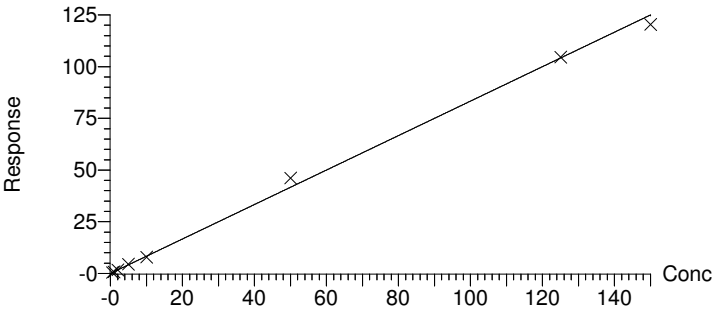
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	62830.832	2672.702	0.510	102.1	0.851	112		1.20
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	61490.102	4950.234	0.966	96.6	0.805	228		1.06
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.611	56641.598	9810.617	2.078	103.9	0.866	407		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	60592.512	27290.605	5.404	108.1	0.901	1175		1.04
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	57736.875	45115.285	9.376	93.8	0.781	1629		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	55687.594	256513.125	55.270	110.5	0.921	8310		1.03
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.5...	49752.020	520601.719	125.555	100.4	0.837	20437		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.5...	47452.582	570830.063	144.340	96.2	0.802	27571		1.05

Compound name: PFNA
Coefficient of Determination: R^2 = 0.997409
Calibration curve: 0.833413 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



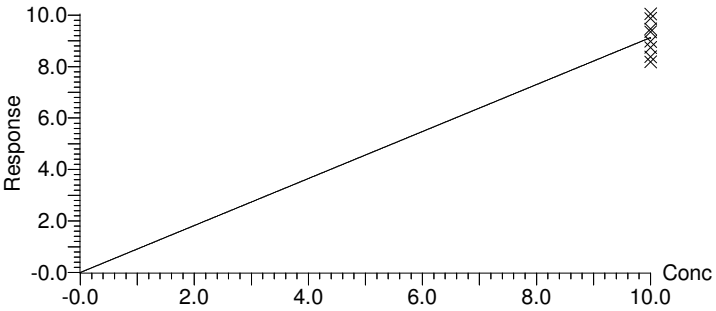
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	63674.309	62830.832	10.811	108.1	0.987	4505		1.04
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	65765.875	61490.102	10.244	102.4	0.935	3896		1.06
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.611	64792.219	56641.598	9.578	95.8	0.874	5224		1.11
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	60313.320	60592.512	11.007	110.1	1.005	4739		1.07
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	64321.379	57736.875	9.835	98.3	0.898	4349		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	58821.836	55687.594	10.372	103.7	0.947	4363		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.5...	60789.090	49752.020	8.967	89.7	0.818	3780		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.5...	56591.422	47452.582	9.187	91.9	0.839	3477		1.16

Compound name: M9PFNA
Response Factor: 0.912733
RRF SD: 0.0672809, % Relative SD: 7.37136
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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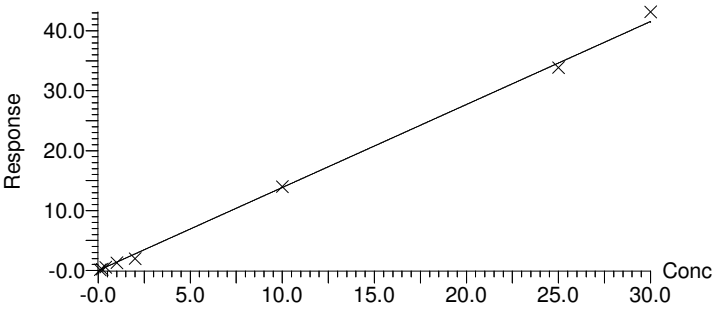
Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.4...	8469.573	87.957	0.075	75.0	1.039	1363		0.62
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.4...	8142.674	193.291	0.171	85.7	1.187	10		0.65
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.4...	7798.730	427.311	0.396	98.9	1.370	47		0.68
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.4...	7441.749	952.465	0.924	92.4	1.280	49		0.70
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.4...	7586.068	1489.643	1.417	70.9	0.982	56		0.67
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.4...	7113.925	9966.363	10.113	101.1	1.401	602		0.68
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.4...	6548.564	22181.762	24.450	97.8	1.355	578		0.68
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.4...	6141.485	26506.963	31.154	103.8	1.439	727		0.68

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.996319
Calibration curve: 1.38538 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



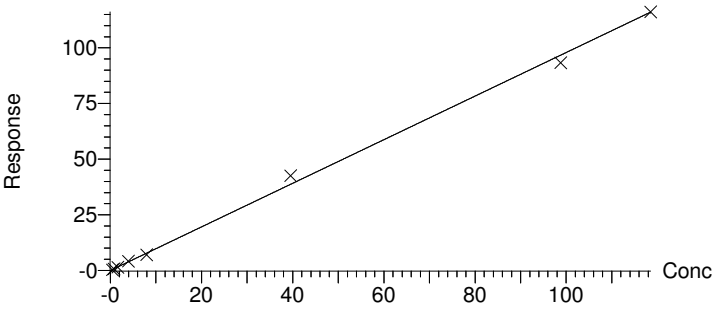
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	8469.573	301.930	0.364	92.2	0.903	5988		1.11
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	8142.674	530.974	0.666	84.3	0.825	44		0.85
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...	7798.730	1130.053	1.480	93.7	0.917	214		1.39
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	7441.749	3067.712	4.210	106.6	1.044	300		1.41
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	7586.068	5396.824	7.265	92.0	0.901	393		1.45
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	7113.925	30263.258	43.446	110.0	1.077	3672		1.54
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...	6548.564	61120.172	95.319	96.5	0.945	3139		1.37
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...	6141.485	71329.086	118.614	100.1	0.980	3691		1.47

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.997651
Calibration curve: 0.979167 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



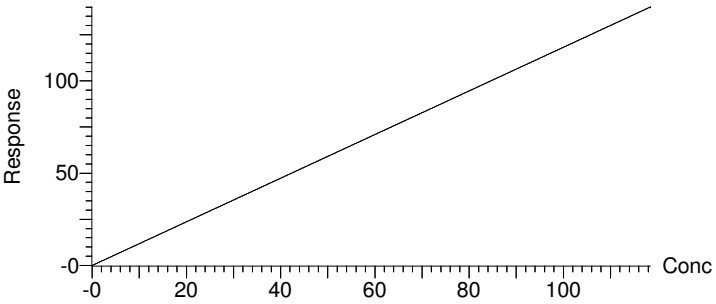
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		8469.573	389.887	0.439					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		8142.674	724.265	0.837					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		7798.730	1557.364	1.875					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		7441.749	4020.177	5.134					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		7586.068	6886.467	8.683					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		7113.925	40229.621	53.558					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		6548.564	83301.934	119.770					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		6141.485	97836.049	149.768					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.18227 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



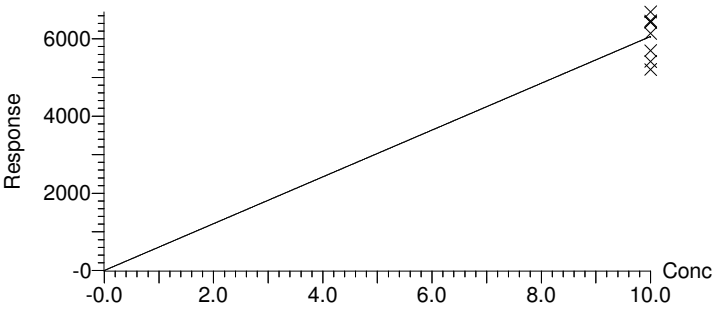
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...		6470.397	10.671	106.7	647.040	567		1.15
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...		6699.228	11.048	110.5	669.923	1270		1.04
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...		6432.927	10.609	106.1	643.293	187		1.00
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...		6146.833	10.137	101.4	614.683	700		1.03
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...		6436.869	10.616	106.2	643.687	1143		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...		5415.272	8.931	89.3	541.527	637		0.95
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...		5696.055	9.394	93.9	569.606	715		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...		5210.555	8.593	85.9	521.056	656		0.98

Compound name: M4PFOS
Response Factor: 606.352
RRF SD: 55.2303, % Relative SD: 9.10863
Response type: External Std, Area
Curve type: RF



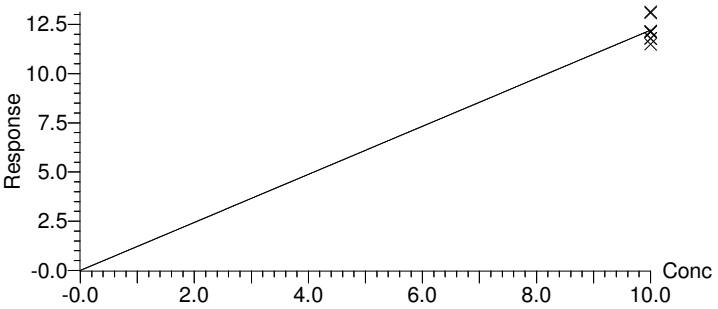
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	6470.397	8469.573	10.721	107.2	1.309	710		1.15
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	6699.228	8142.674	9.955	99.5	1.215	716		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...	6432.927	7798.730	9.929	99.3	1.212	375		1.18
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	6146.833	7441.749	9.915	99.2	1.211	182		1.11
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	6436.869	7586.068	9.652	96.5	1.179	801		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	5415.272	7113.925	10.759	107.6	1.314	543		1.11
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...	5696.055	6548.564	9.416	94.2	1.150	325		1.08
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...	5210.555	6141.485	9.653	96.5	1.179	637		1.14

Compound name: M8PFOS
Response Factor: 1.22099
RRF SD: 0.0600306, % Relative SD: 4.91653
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



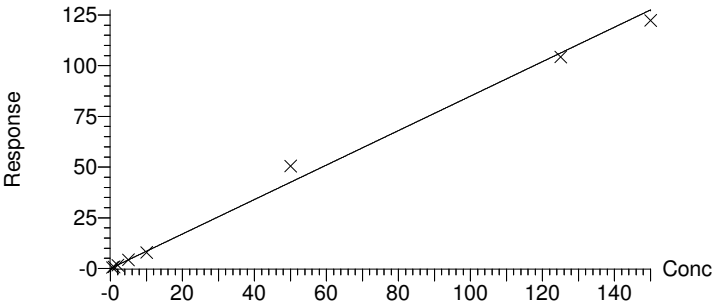
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249	56771.715	2546.143	0.528	105.5	0.897	159		1.47
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249	55180.480	4492.288	0.958	95.8	0.814	353		1.16
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.231	56501.883	9274.834	1.931	96.5	0.821	631		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227	55189.074	23581.932	5.026	100.5	0.855	1472		1.18
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.222	56109.461	44004.688	9.225	92.2	0.784	2572		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.222	44989.004	227167.406	59.394	118.8	1.010	10481		1.10
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.218	42673.848	444848.875	122.618	98.1	0.834	17827		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214	39021.895	477119.750	143.821	95.9	0.815	14411		1.20

Compound name: PFDA
Coefficient of Determination: R^2 = 0.993520
Calibration curve: 0.850152 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



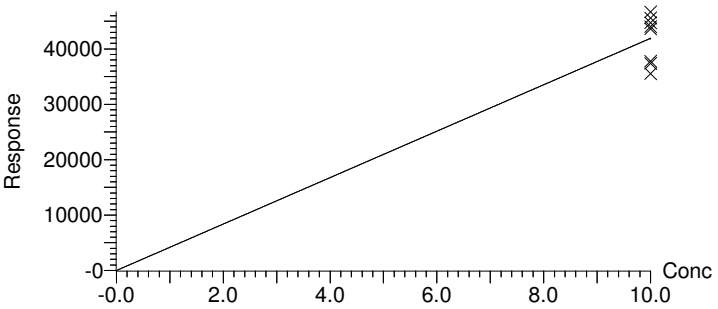
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249		44036.066	10.504	105.0	4403.607	8233		1.09
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249		46688.883	11.136	111.4	4668.888	9955		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.232		44732.898	10.670	106.7	4473.290	11684		1.20
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227		43618.020	10.404	104.0	4361.802	3691		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.219		45580.199	10.872	108.7	4558.020	11937		1.11
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.223		37397.438	8.920	89.2	3739.744	6826		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.219		37806.633	9.018	90.2	3780.663	10465		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214		35539.059	8.477	84.8	3553.906	8582		1.17

Compound name: M2PFDA
Response Factor: 4192.49
RRF SD: 430.12, % Relative SD: 10.2593
Response type: External Std, Area
Curve type: RF



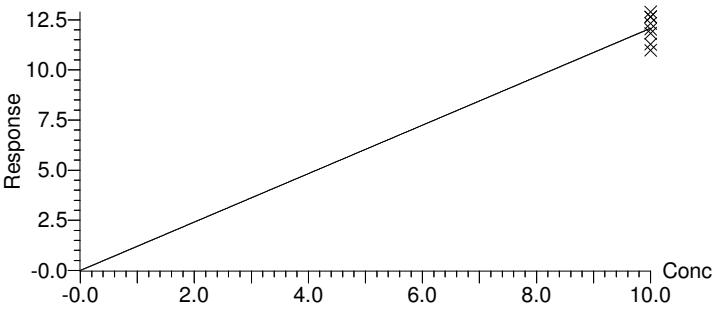
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249	44036.066	56771.715	10.676	106.8	1.289	3292		1.10
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249	46688.883	55180.480	9.788	97.9	1.182	4397		1.15
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.232	44732.898	56501.883	10.460	104.6	1.263	3101		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227	43618.020	55189.074	10.478	104.8	1.265	3482		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.219	45580.199	56109.461	10.194	101.9	1.231	1075		1.13
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.223	37397.438	44989.004	9.962	99.6	1.203	2245		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.219	37806.633	42673.848	9.348	93.5	1.129	4528		1.00
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214	35539.059	39021.895	9.093	90.9	1.098	2736		1.19

Compound name: M6PFDA
Response Factor: 1.20753
RRF SD: 0.0681685, % Relative SD: 5.64531
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



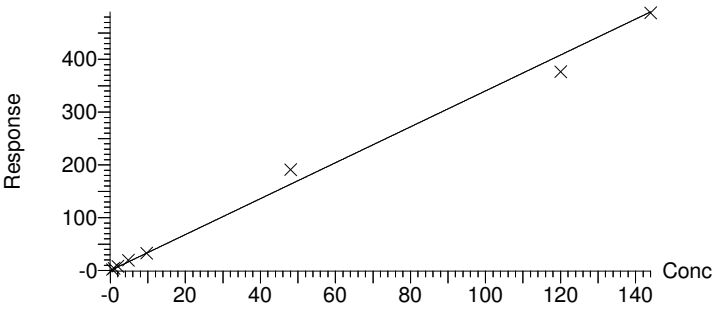
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.241	891.453	154.382	0.509	106.0	3.608	6		0.71
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.245	782.419	313.965	1.179	122.9	4.180	16		1.48
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.223	826.894	636.316	2.262	117.8	4.008	13984		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.219	817.101	1609.812	5.790	120.6	4.104	117		1.26
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.210	840.633	2772.331	9.693	101.0	3.435	707		1.03
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.215	684.133	13078.383	56.186	117.1	3.983	697		1.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.210	620.795	23368.740	110.637	92.2	3.137	1055		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.206	549.087	26809.439	143.503	99.7	3.391	1454		1.28

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.992183
Calibration curve: 3.4024 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



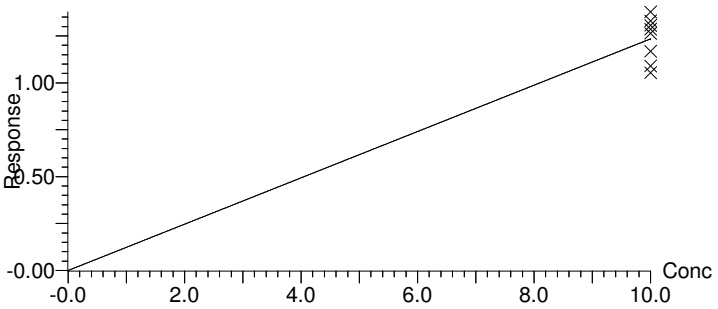
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.241	6470.397	891.453	11.163	111.6	0.138	743		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.241	6699.228	782.419	9.463	94.6	0.117	272		1.05
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.224	6432.927	826.894	10.415	104.2	0.129	83		1.32
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.219	6146.833	817.101	10.771	107.7	0.133	502		1.19
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.215	6436.869	840.633	10.582	105.8	0.131	139		1.14
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.215	5415.272	684.133	10.236	102.4	0.126	234		1.22
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.211	5696.055	620.795	8.831	88.3	0.109	273		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.211	5210.555	549.087	8.539	85.4	0.105	276		1.07

Compound name: M2-8:2FTS
Response Factor: 0.123417
RRF SD: 0.0117132, % Relative SD: 9.49078
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



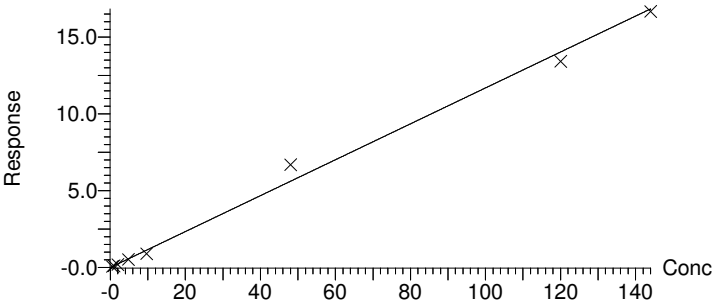
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.276	56771.715	364.729	0.549	114.4	0.134	71		1.22
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.276	55180.480	541.407	0.839	87.4	0.102	14148		1.26
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.263	56501.883	1094.871	1.657	86.3	0.101	330		1.10
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.259	55189.074	2903.467	4.498	93.7	0.110	210		0.95
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.250	56109.461	4994.088	7.610	79.3	0.093	734		1.25
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.250	44989.004	30146.711	57.291	119.4	0.140	1743		1.27
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.246	42673.848	57265.637	114.733	95.6	0.112	3518		1.25
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.246	39021.895	65075.695	142.583	99.0	0.116	5173		1.17

Compound name: PFNS
Coefficient of Determination: R^2 = 0.992004
Calibration curve: 0.116962 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



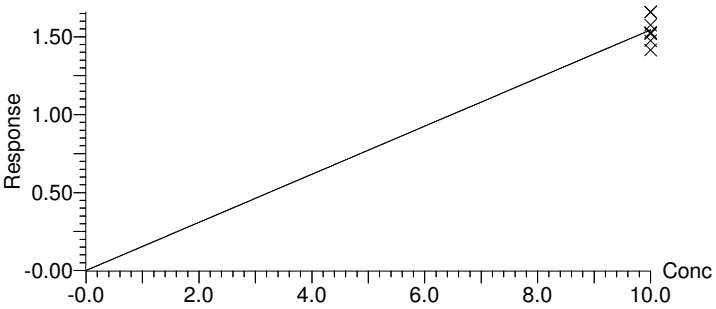
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.585	44036.066	7299.075	10.736	107.4	0.166	597		1.32
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.585	46688.883	6881.545	9.547	95.5	0.147	169		1.39
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.572	44732.898	6839.522	9.903	99.0	0.153	418		1.25
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.568	43618.020	6173.942	9.168	91.7	0.142	317		1.28
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.559	45580.199	6940.374	9.862	98.6	0.152	740		1.13
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.559	37397.438	6206.240	10.749	107.5	0.166	387		1.17
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.555	37806.633	5952.116	10.197	102.0	0.157	127		1.15
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.551	35539.059	5397.969	9.838	98.4	0.152	518		1.31

Compound name: d3-NMeFOSAA
Response Factor: 0.154391
RRF SD: 0.00844345, % Relative SD: 5.46886
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



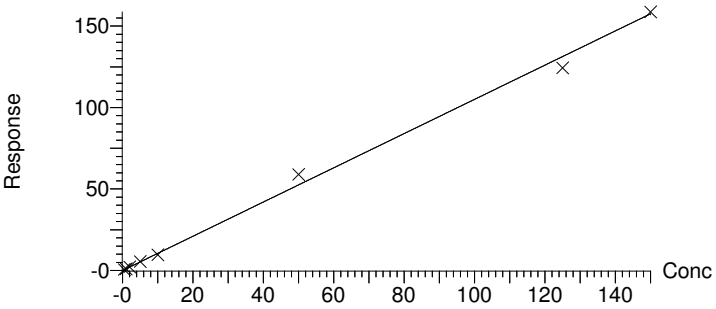
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.584	7299.075	466.771	0.609	121.7	1.279	44		1.80
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.593	6881.545	662.969	0.917	91.7	0.963	4		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.576	6839.522	1474.099	2.052	102.6	1.078	33		1.34
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.572	6173.942	3375.952	5.205	104.1	1.094	372		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.563	6940.374	6668.396	9.146	91.5	0.961	619		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.563	6206.240	36546.723	56.056	112.1	1.178	2790		1.19
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.559	5952.116	74042.711	118.416	94.7	0.995	2442		1.16
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.559	5397.969	85682.727	151.099	100.7	1.058	6476		1.23

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.996328
Calibration curve: 1.05051 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



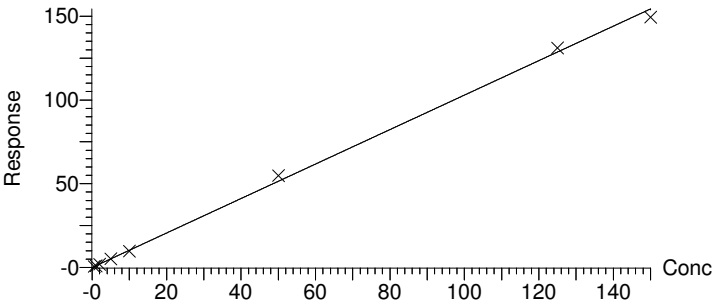
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.787	48907.301	2527.843	0.502	100.4	1.034	164		1.28
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.791	50206.656	4506.123	0.872	87.2	0.898	246		0.98
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.774	45181.898	9012.173	1.938	96.9	0.997	672		1.13
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.770	44334.605	22655.643	4.965	99.3	1.022	1453		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.766	43454.941	42080.266	9.408	94.1	0.968	2507		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.766	39962.434	219020.844	53.248	106.5	1.096	13266		1.16
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.757	31637.904	414572.750	127.311	101.8	1.048	14083		1.38
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.757	29592.242	442423.969	145.256	96.8	0.997	24963		1.22

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.998605
Calibration curve: 1.02927 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



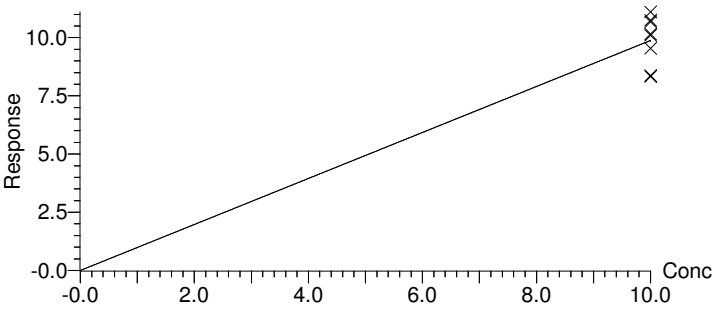
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.787	44036.066	48907.301	11.241	112.4	1.111	2097		1.12
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.792	46688.883	50206.656	10.884	108.8	1.075	3085		1.14
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.775	44732.898	45181.898	10.223	102.2	1.010	3979		1.16
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.770	43618.020	44334.605	10.288	102.9	1.016	3776		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.762	45580.199	43454.941	9.650	96.5	0.953	2608		1.17
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.762	37397.438	39962.434	10.816	108.2	1.069	1686		1.23
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.757	37806.633	31637.904	8.470	84.7	0.837	3755		1.30
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.753	35539.059	29592.242	8.428	84.3	0.833	1573		1.30

Compound name: M7-PFUDA
Response Factor: 0.987987
RRF SD: 0.105986, % Relative SD: 10.7274
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



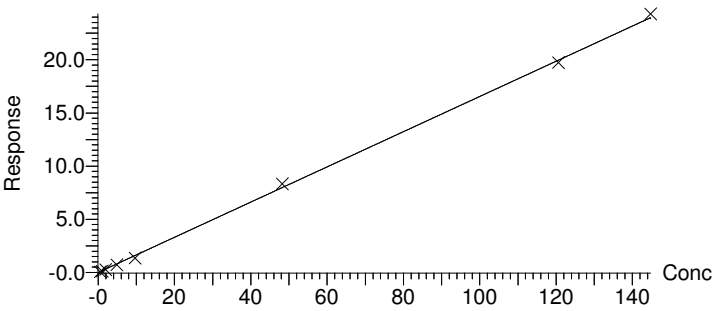
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.801	48907.301	254.943	0.315	65.3	0.108	4		0.80
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.805	50206.656	596.395	0.718	74.4	0.123	224		1.09
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.792	45181.898	1236.325	1.653	85.7	0.142	201		1.33
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.784	44334.605	3157.013	4.302	89.2	0.148	366		1.12
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.775	43454.941	5861.428	8.149	84.4	0.140	148203		1.30
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.779	39962.434	33258.816	50.278	104.2	0.172	1417		1.16
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.775	31637.904	62413.945	119.178	98.8	0.164	4243		1.15
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.771	29592.242	71951.047	146.886	101.5	0.168	4135		1.20

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.165531 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



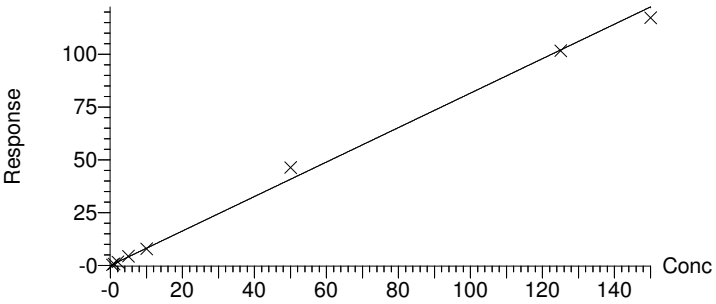
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.712	24229.271	885.323	0.447	89.5	0.731	143		0.89
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.712	23881.275	1917.292	0.983	98.3	0.803	402		1.38
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.699	22809.080	3632.652	1.950	97.5	0.796	299		1.15
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.691	22146.723	9757.254	5.395	107.9	0.881	881		1.29
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.687	22297.041	17604.451	9.669	96.7	0.790	1550		1.15
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.687	21477.146	99639.664	56.814	113.6	0.928	2967		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.682	20500.701	208444.453	124.515	99.6	0.813	7111		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.682	20512.424	240742.797	143.726	95.8	0.782	13356		1.16

Compound name: FOSA
Coefficient of Determination: R^2 = 0.996214
Calibration curve: 0.816584 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



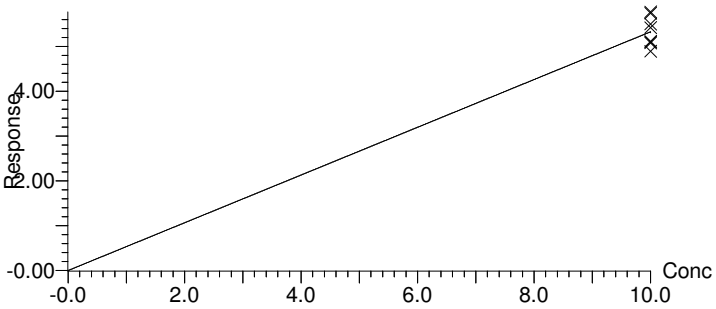
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.708	44036.066	24229.271	10.327	103.3	0.550	2226		1.17
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.713	46688.883	23881.275	9.601	96.0	0.511	1684		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.700	44732.898	22809.080	9.570	95.7	0.510	958		1.08
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.691	43618.020	22146.723	9.530	95.3	0.508	1906		1.19
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.683	45580.199	22297.041	9.182	91.8	0.489	1530		1.16
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.687	37397.438	21477.146	10.779	107.8	0.574	1752		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.683	37806.633	20500.701	10.178	101.8	0.542	1725		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.679	35539.059	20512.424	10.833	108.3	0.577	1573		1.23

Compound name: M8FOSA
Response Factor: 0.532782
RRF SD: 0.0329344, % Relative SD: 6.18158
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



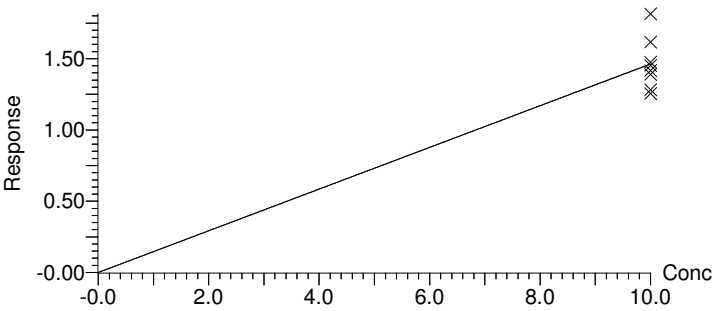
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.869	44036.066	7989.084	12.402	124.0	0.181	183		1.24
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.873	46688.883	6493.615	9.508	95.1	0.139	23		1.07
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.856	44732.898	6600.929	10.088	100.9	0.148	87		1.22
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.852	43618.020	5477.405	8.585	85.8	0.126	135		1.02
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.843	45580.199	6619.729	9.929	99.3	0.145	262		1.39
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.843	37397.438	6044.235	11.049	110.5	0.162	163		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.839	37806.633	4843.223	8.758	87.6	0.128	108521		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.839	35539.059	5033.181	9.682	96.8	0.142	18		1.30

Compound name: d5-NEtFOSAA
Response Factor: 0.146278
RRF SD: 0.018148, % Relative SD: 12.4065
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



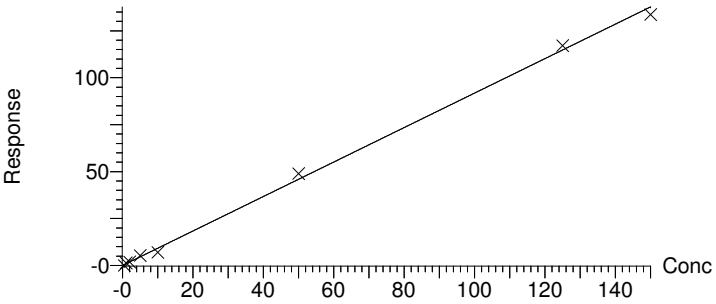
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.954	7989.084	28.590	0.039	7.8	0.072	1		0.76
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.877	6493.615	899.321	1.509	150.9	1.385	5		1.15
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.856	6600.929	1247.902	2.059	103.0	0.945	25		2.20
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.860	5477.405	2937.385	5.841	116.8	1.073	83		0.77
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.852	6619.729	4682.063	7.704	77.0	0.707	23		1.49
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.852	6044.235	29614.248	53.369	106.7	0.980	184		1.18
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.847	4843.223	56694.883	127.507	102.0	0.936	629		1.17
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.847	5033.181	67219.523	145.472	97.0	0.890	1389		1.14

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.994645
Calibration curve: 0.918066 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



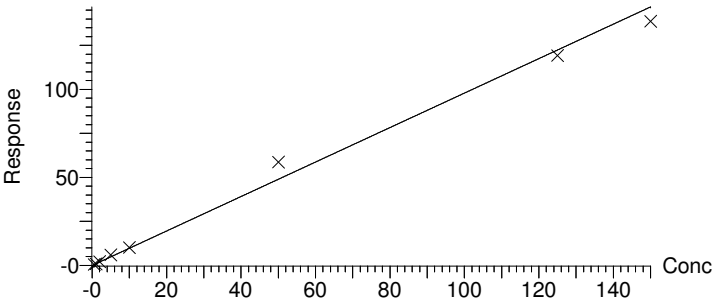
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.2...	46716.719	2241.659	0.490	98.0	0.960	120		0.99
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.2...	47641.645	4539.669	0.973	97.3	0.953	250		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.2...	44508.043	9371.134	2.151	107.5	1.053	526		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.2...	43215.250	25645.684	6.062	121.2	1.187	1365		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.2...	44359.781	45493.695	10.476	104.8	1.026	2520		1.17
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.2...	40351.695	236715.672	59.923	119.8	1.173	11863		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.2...	38038.711	453770.406	121.853	97.5	0.954	13811		2.70
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.2...	37425.887	518709.813	141.572	94.4	0.924	19114		0.94

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.991514
Calibration curve: 0.97898 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



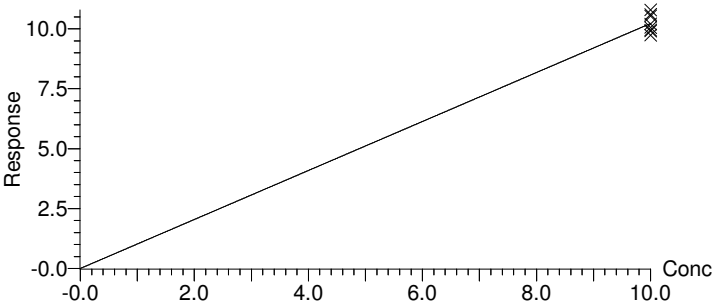
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.2...	44036.066	46716.719	10.377	103.8	1.061	1895		0.99
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.2...	46688.883	47641.645	9.981	99.8	1.020	4804		1.19
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.2...	44732.898	44508.043	9.733	97.3	0.995	2645		1.14
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.2...	43618.020	43215.250	9.691	96.9	0.991	4025		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.2...	45580.199	44359.781	9.520	95.2	0.973	3313		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.2...	37397.438	40351.695	10.555	105.5	1.079	3170		1.14
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.2...	37806.633	38038.711	9.842	98.4	1.006	2262		1.22
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.2...	35539.059	37425.887	10.301	103.0	1.053	2081		1.05

Compound name: MPFDOA
Response Factor: 1.02231
RRF SD: 0.0379188, % Relative SD: 3.70913
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



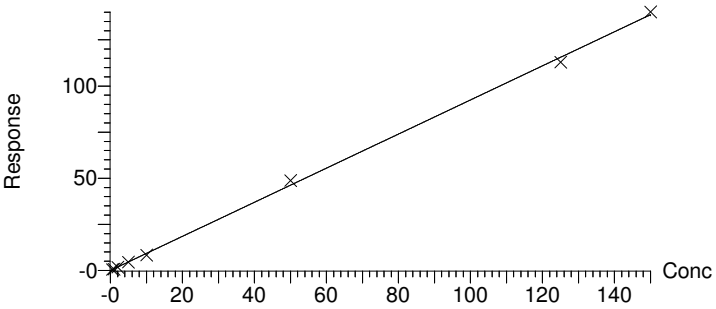
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.5...	46716.719	2069.416	0.479	95.8	0.886	69265		1.01
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.5...	47641.645	3567.349	0.810	81.0	0.749	33		1.27
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.5...	44508.043	7579.005	1.842	92.1	0.851	248031		1.32
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.5...	43215.250	19206.564	4.807	96.1	0.889	462		1.25
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.5...	44359.781	37055.875	9.035	90.3	0.835	413		1.29
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.5...	40351.695	196793.688	52.748	105.5	0.975	3447		1.23
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.5...	38038.711	429649.000	122.165	97.7	0.904	5080		1.24
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.5...	37425.887	524625.000	151.613	101.1	0.935	3838		1.27

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998836
Calibration curve: 0.924569 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



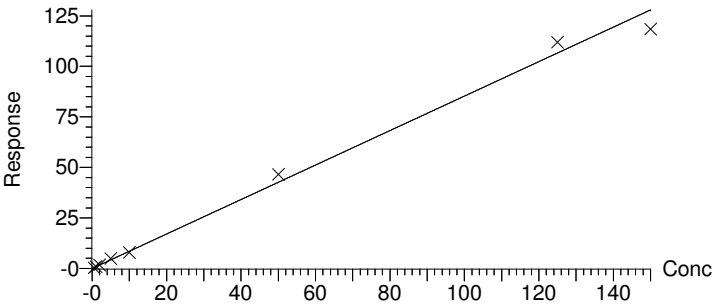
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.7...	37471.367	1458.912	0.456	91.3	0.779	148		0.96
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.7...	30328.896	2781.319	1.075	107.5	0.917	118		1.00
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.7...	32257.623	5513.129	2.004	100.2	0.855	136		1.14
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.7...	28342.439	14000.536	5.791	115.8	0.988	321		1.22
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.7...	36385.828	29003.742	9.345	93.5	0.797	694		1.00
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.7...	30943.559	144042.531	54.574	109.1	0.931	2351		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.7...	34649.195	388175.625	131.340	105.1	0.896	4855		1.17
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.7...	36093.398	427676.719	138.915	92.6	0.790	5543		1.17

Compound name: PFTA
Coefficient of Determination: R^2 = 0.994704
Calibration curve: 0.852979 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



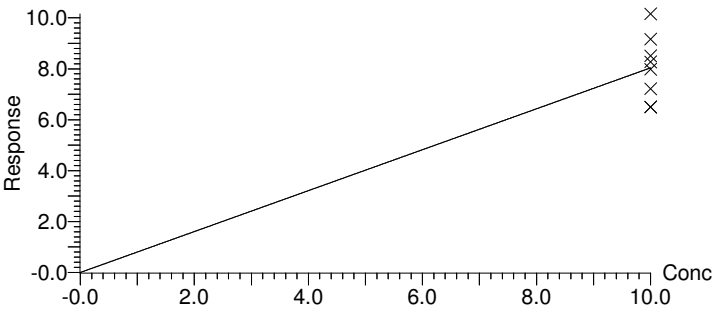
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.7...	44036.066	37471.367	10.588	105.9	0.851	365		1.13
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.7...	46688.883	30328.896	8.083	80.8	0.650	438		1.20
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.7...	44732.898	32257.623	8.973	89.7	0.721	369		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.7...	43618.020	28342.439	8.085	80.9	0.650	338		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.7...	45580.199	36385.828	9.933	99.3	0.798	1023781		1.10
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.7...	37397.438	30943.559	10.296	103.0	0.827	414		1.21
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.7...	37806.633	34649.195	11.404	114.0	0.916	175		1.49
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.7...	35539.059	36093.398	12.637	126.4	1.016	880		1.07

Compound name: M2PFTEDA
Response Factor: 0.803652
RRF SD: 0.128007, % Relative SD: 15.9282
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



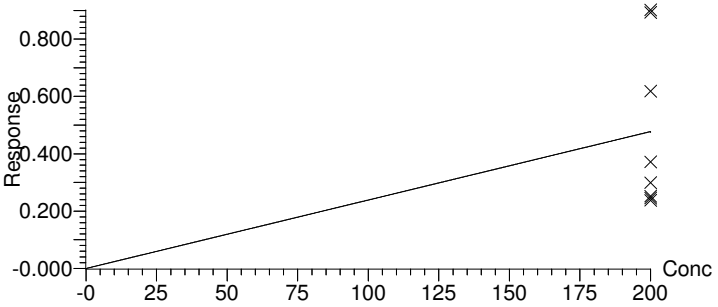
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.117	50946.270	1284.901	105.622	52.8	0.001	6		0.88
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.106	52028.402	1275.696	102.684	51.3	0.001	24635		0.97
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.099	50370.258	1197.191	99.537	49.8	0.001	24004		1.01
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.099	49021.660	1468.360	125.442	62.7	0.001	3		0.93
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.091	50312.719	1870.537	155.699	77.8	0.002	149		1.01
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.088	47098.000	2914.130	259.121	129.6	0.003	56018		1.07
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.081	50780.102	4579.879	377.709	188.9	0.005	740		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.077	48690.582	4350.464	374.186	187.1	0.004	78987		1.09

Compound name: M3HFPO-DA
Response Factor: 0.00238783
RRF SD: 0.00143702, % Relative SD: 60.1808
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



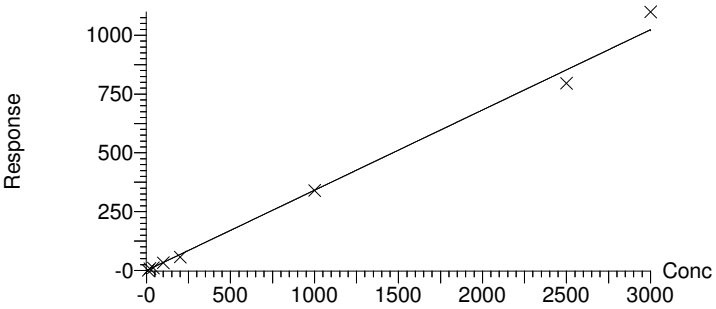
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.146	1284.901	2.019	0.921	9.2	0.031	80		1.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.109	1275.696	50.313	23.117	115.6	0.394	11		1.00
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.091	1197.191	68.160	33.370	83.4	0.285	26		1.33
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.095	1468.360	238.544	95.220	95.2	0.325	2		1.51
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.095	1870.537	536.802	168.205	84.1	0.287	10930		1.00
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.091	2914.130	4952.150	996.037	99.6	0.340	16		1.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.084	4579.879	18218.738	2331.604	93.3	0.318	1850		1.11
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.077	4350.464	23911.500	3221.527	107.4	0.366	468635		1.12

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.993575
Calibration curve: 0.341224 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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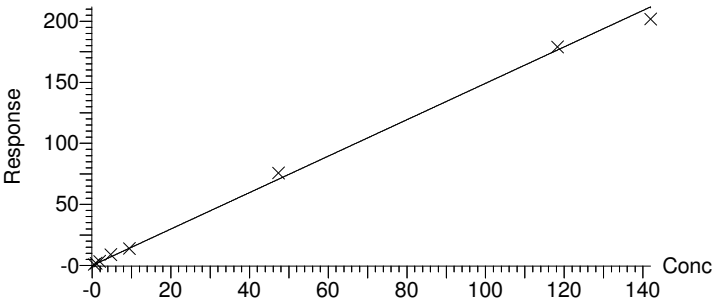
Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.143	65050.063	5470.640	0.564	119.2	1.778	344		0.96
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.133	63357.285	11515.348	1.219	128.8	1.921	597		1.01
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.128	61715.293	20254.986	2.200	116.3	1.734	958		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.123	62119.594	54561.430	5.888	124.5	1.857	3012		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.117	62540.145	86532.531	9.276	98.0	1.462	5002		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.117	57407.289	434517.031	50.744	107.3	1.600	14293		1.20
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.117	54629.637	977194.500	119.922	101.4	1.512	32167		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.107	54074.738	1090548.375	135.206	95.3	1.421	45745		1.08

Compound name: ADONA
Coefficient of Determination: R^2 = 0.996661
Calibration curve: 1.4916 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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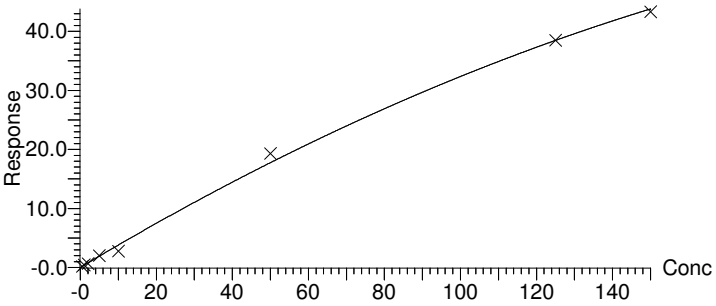
Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.9...	37471.367	643.168	0.444	88.8	0.343	386		1.16
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.9...	30328.896	1290.159	1.102	110.2	0.425	700		1.18
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.9...	32257.623	2050.861	1.649	82.4	0.318	1226		1.63
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.9...	28342.439	5615.624	5.168	103.4	0.396	2684		1.20
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.9...	36385.828	10030.798	7.215	72.1	0.276	4481		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.9...	30943.559	59698.859	54.794	109.6	0.386	22586		1.09
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.9...	34649.195	133454.328	125.164	100.1	0.308	34860		5.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.9...	36093.398	156410.328	147.616	98.4	0.289	47300		4.44

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.994642
Calibration curve: -0.000630611 * x^2 + 0.386653 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



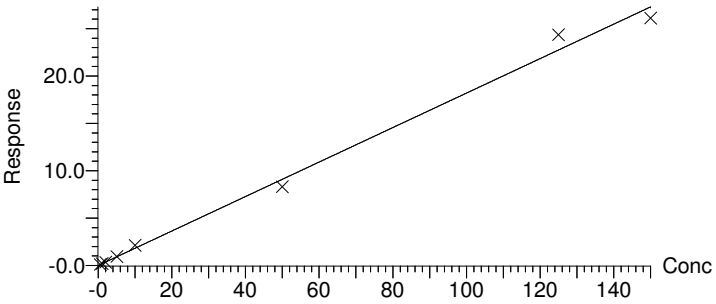
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	13.4...	37471.367	325.050	0.477	95.3	0.173	33		0.72
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	13.3...	30328.896	629.543	1.141	114.1	0.208	83		1.62
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	13.4...	32257.623	1125.753	1.918	95.9	0.174	135		1.97
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	13.4...	28342.439	2703.662	5.242	104.8	0.191	220		1.39
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	13.4...	36385.828	7801.384	11.782	117.8	0.214	80		1.67
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	13.4...	30943.559	25670.719	45.589	91.2	0.166	2390		2.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	13.3...	34649.195	84401.523	133.858	107.1	0.195	633		1.70
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	13.3...	36093.398	94247.742	143.493	95.7	0.174	9751		1.48

Compound name: PFODA
Coefficient of Determination: R^2 = 0.994954
Calibration curve: 0.181975 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: IA2-537-ISOSTD0.50
Name: I5988
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.27	212.926 > 169.111	2197		0.490		na	98.1
2	M3PFBA	INT STD	2.26	215.926 > 172.122	50946		10.208		na	102.1
3	MPFBA	INT STD	2.26	216.926 > 172.137	60868		10.691		na	106.9
4	PFPeA	2706-90-3	5.67	262.926 > 219.002	2371		0.480		na	96.0
5	M5PFPEA	INT STD	5.67	TIC	62807		10.703		na	107.0
6	PFBS	375-73-5	6.42	298.989 > 80.295	417		0.391		na	88.4
7	M3PFBS	INT STD	6.42	301.989 > 80.254	10840		10.207		na	102.1
8	4:2FTS	757124-72-4	7.61	326.926 > 306.957	184		0.387		na	82.7
9	M2-4:2FTS	INT STD	7.60	328.989 > 80.973	1427		10.417		na	104.2
10	PFHxA	307-24-4	7.68	312.989 > 269.028	3004		0.510		na	102.1
11	M5PFHxA	INT STD	7.68	317.989 > 273.045	65093		10.621		na	106.2
12	PFPeS	2706-91-4	8.02	348.926 > 80.251	353		0.340		na	72.3
13	PFHpA	375-85-9	8.96	362.926 > 319.014	3067		0.450		na	90.0
14	M4PFHpA	INT STD	8.96	366.926 > 321.979	74122		10.648		na	106.5
15	br-PFHxS	355-46-4	8.82	398.926 > 80.295	66		0.064		na	67.1
16	L-PFHxS	355-46-4	9.12	398.926 > 80.295	337		0.332		na	82.1
17	PFHxS	355-46-4		398.926 > 80.295	403		0.396		na	
18	M3PFHxS	INT STD	9.13	401.926 > 80.317	10749		11.003		na	110.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.90	412.989 > 368.9	3386		0.502		na	100.4
21	M2PFOA	INT STD	9.90	415.032 > 369.968	63674		10.289		na	102.9
22	PFOA	335-67-1		412.989 > 368.9	3386		0.502		na	
23	M8PFOA	INT STD	9.90	420.989 > 375.979	65050		10.519		na	105.2
24	6:2FTS	27619-97-2	9.86	426.989 > 406.921	190		0.456		na	96.0
25	M2-6:2FTS	INT STD	9.86	428.989 > 408.917	4226		8.172		na	81.7
26	PFHpS	375-92-8	9.99	448.926 > 80.257	219		0.373		na	78.6
27	PFNA	375-95-1	10.63	462.989 > 418.931	2673		0.510		na	102.1
28	M9PFNA	INT STD	10.63	472.053 > 426.947	62831		10.811		na	108.1
29	br-PFOS	1763-23-1	10.50	498.989 > 80.294	88		0.075		na	75.0
30	L-PFOS	1763-23-1	10.68	498.989 > 80.294	302		0.364		na	92.2
31	PFOS	1763-23-1		498.989 > 80.294	390		0.439		na	
32	M4PFOS	INT STD	10.68	503.032 > 80.306	6470		10.671		na	106.7
33	M8PFOS	INT STD	10.68	507.053 > 80.294	8470		10.721		na	107.2
34	PFDA	335-76-2	11.25	513.053 > 468.906	2546		0.528		na	105.5
35	M2PFDA	INT STD	11.25	515.053 > 469.934	44036		10.504		na	105.0
36	M6PFDA	INT STD	11.25	519.053 > 473.931	56772		10.676		na	106.8
37	8:2FTS	39108-34-4	11.24	526.989 > 506.946	154		0.509		na	106.0
38	M2-8:2FTS	INT STD	11.24	529.117 > 80.953	891		11.163		na	111.6
39	PFNS	68259-12-1	11.28	548.989 > 80.249	365		0.549		na	114.4

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

ID: IA2-537-ISOSTD0.50
Name: I5988
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.58	573.096 > 418.987	7299		10.736		na	107.4
41	NMeFOSAA	2355-31-9	11.58	570.053 > 418.917	467		0.609		na	121.7
42	PFUnA	2058-94-8	11.79	562.989 > 518.903	2528		0.502		na	100.4
43	M7-PFUDA	INT STD	11.79	570.053 > 524.923	48907		11.241		na	112.4
44	PFDS	335-77-3	11.80	598.926 > 80.314	255		0.315		na	65.3
45	FOSA	754-91-6	11.71	497.989 > 78.245	885		0.447		na	89.5
46	M8FOSA	INT STD	11.71	506.053 > 78.286	24229		10.327		na	103.3
47	d5-NEtFOSAA	INT STD	11.87	589.117 > 418.929	7989		12.402		na	124.0
48	NEtFOSAA	2991-50-6	11.95	583.989 > 418.927	29		0.039		na	7.8
49	PFDoA	307-55-1	12.26	612.989 > 568.967	2242		0.490		na	98.0
50	MPFDOA	INT STD	12.26	614.989 > 569.92	46717		10.377		na	103.8
51	PFTrDA	72629-94-8	12.59	663.053 > 618.969	2069		0.479		na	95.8
52	PFTA	376-06-7	12.76	713.053 > 668.976	1459		0.456		na	91.3
53	M2PFTEDA	INT STD	12.76	715.053 > 669.945	37471		10.588		na	105.9
54	M3HFPO-DA	INT STD	8.12	331.989 > 286.995	1285		105.622		na	52.8
55	HFPO-DA	13252-13-6	8.15	328.989 > 284.982	2		0.921		na	9.2
56	ADONA	958445-44-8	9.14	376.926 > 251.005	5471		0.564		na	119.2
57	PFHxDA		12.99	813.053 > 769.005	643		0.444		na	88.8
58	PFODA		13.46	912.989 > 869.032	325		0.477		na	95.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
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Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
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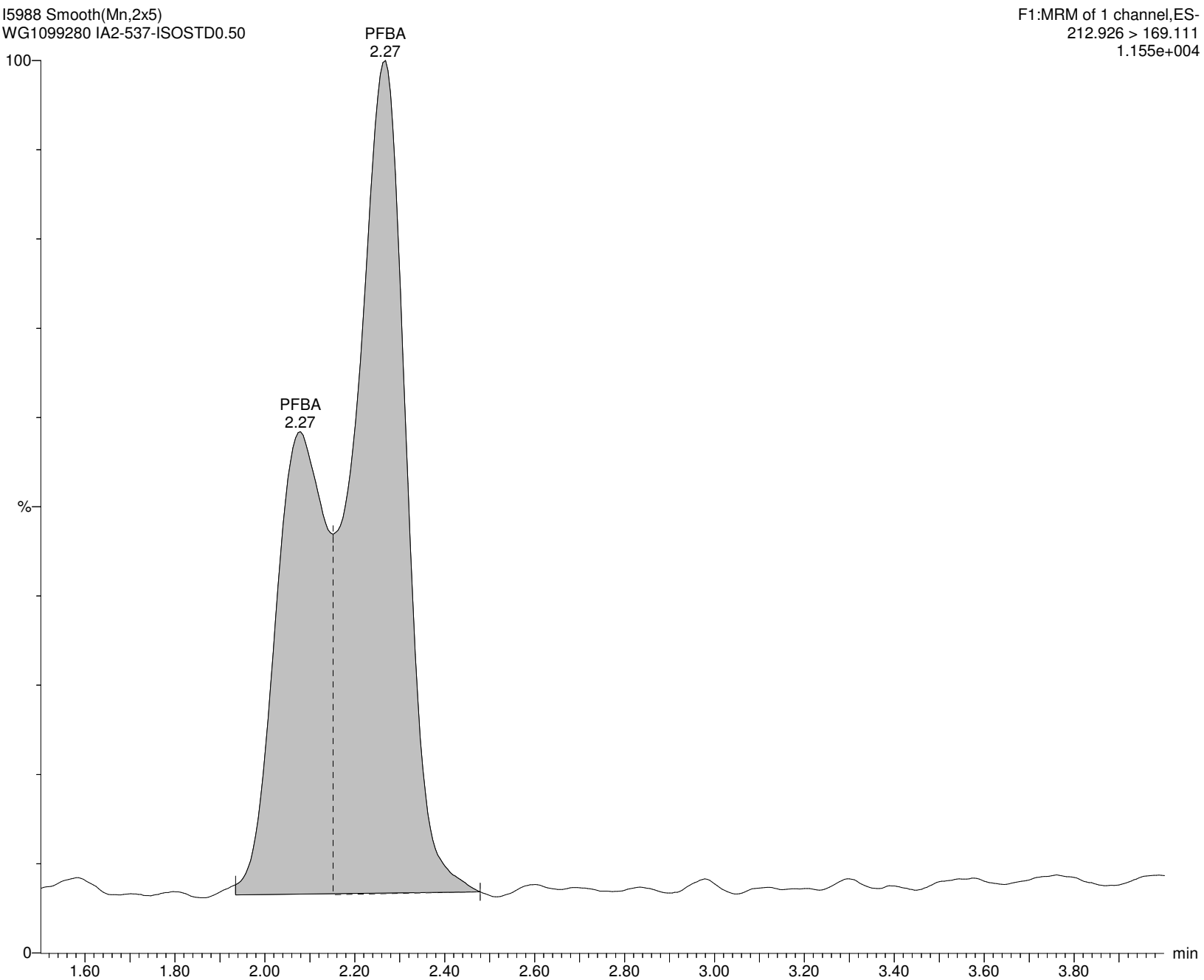
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

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Date: 21-Mar-2018
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Vial: 2:A,1
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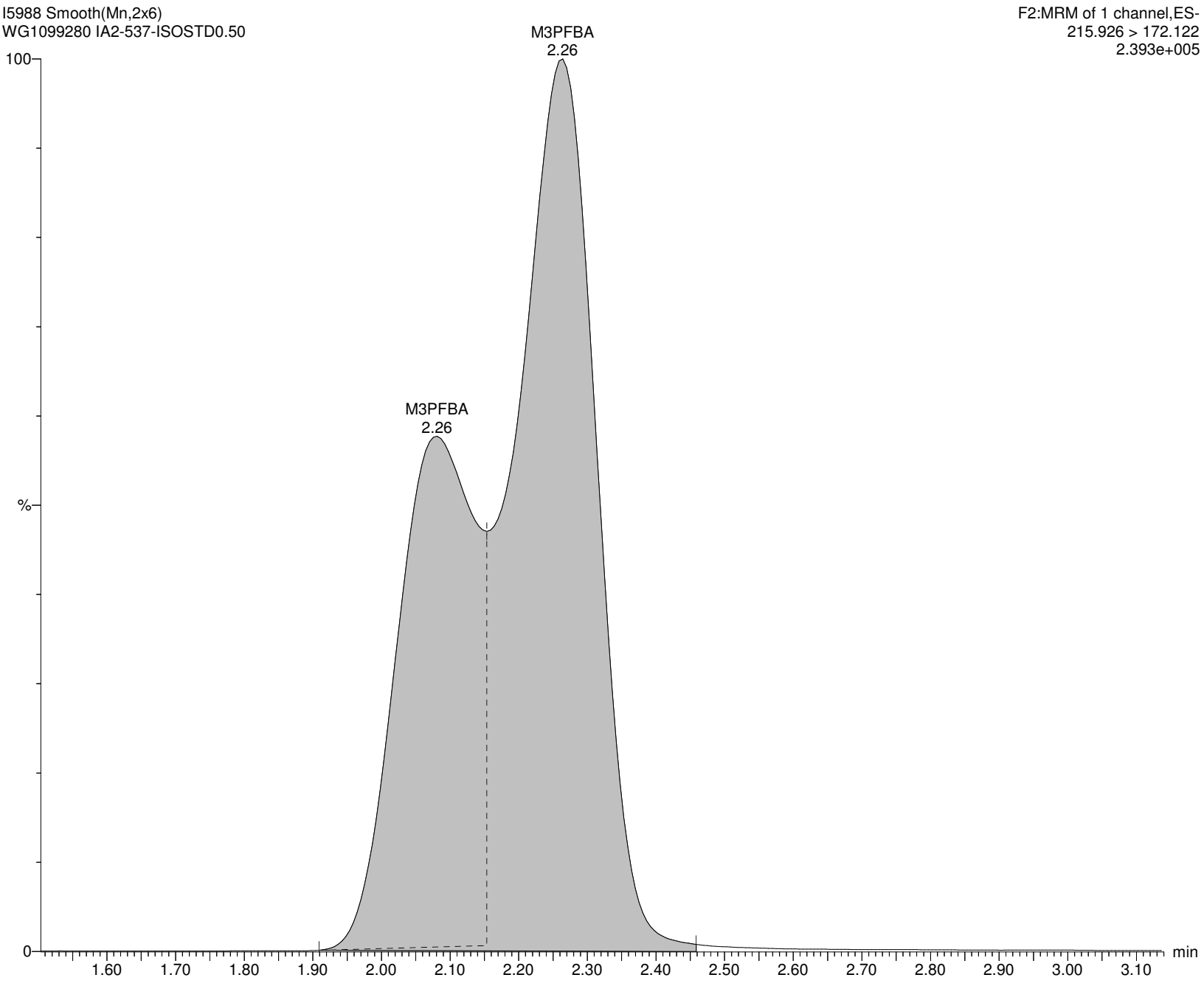
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

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Date: 21-Mar-2018
Time: 15:52:14
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Vial: 2:A,1
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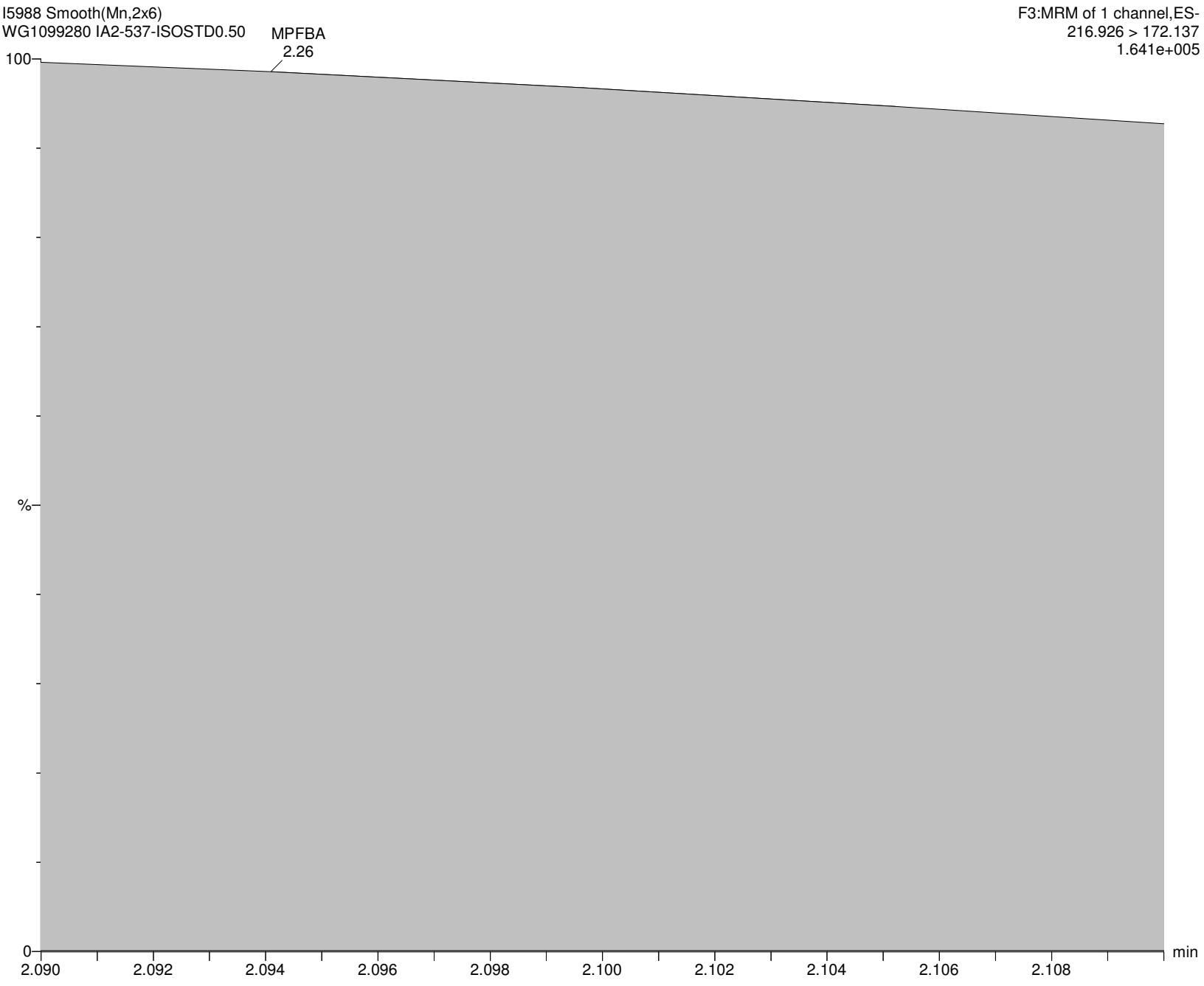

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
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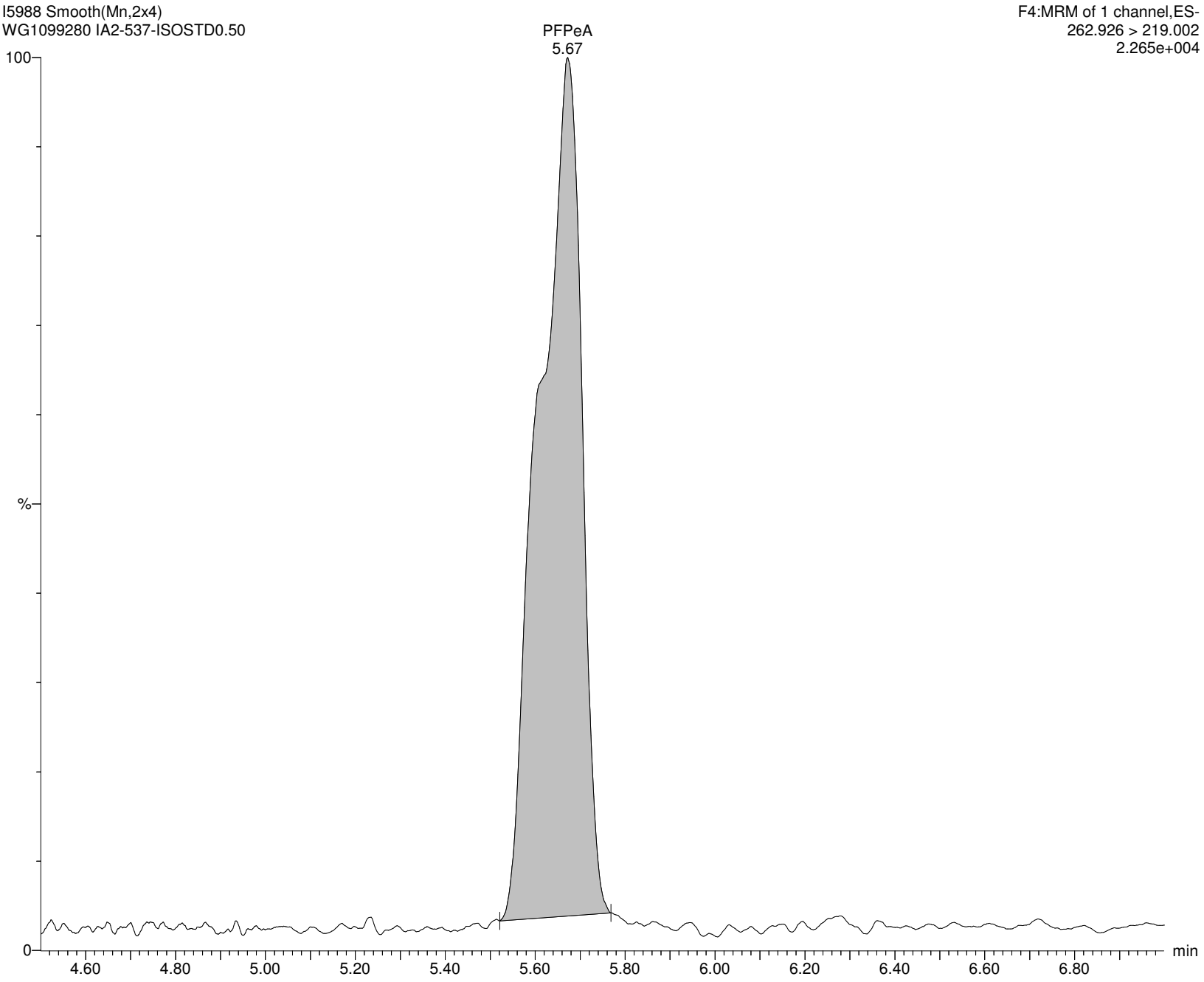
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
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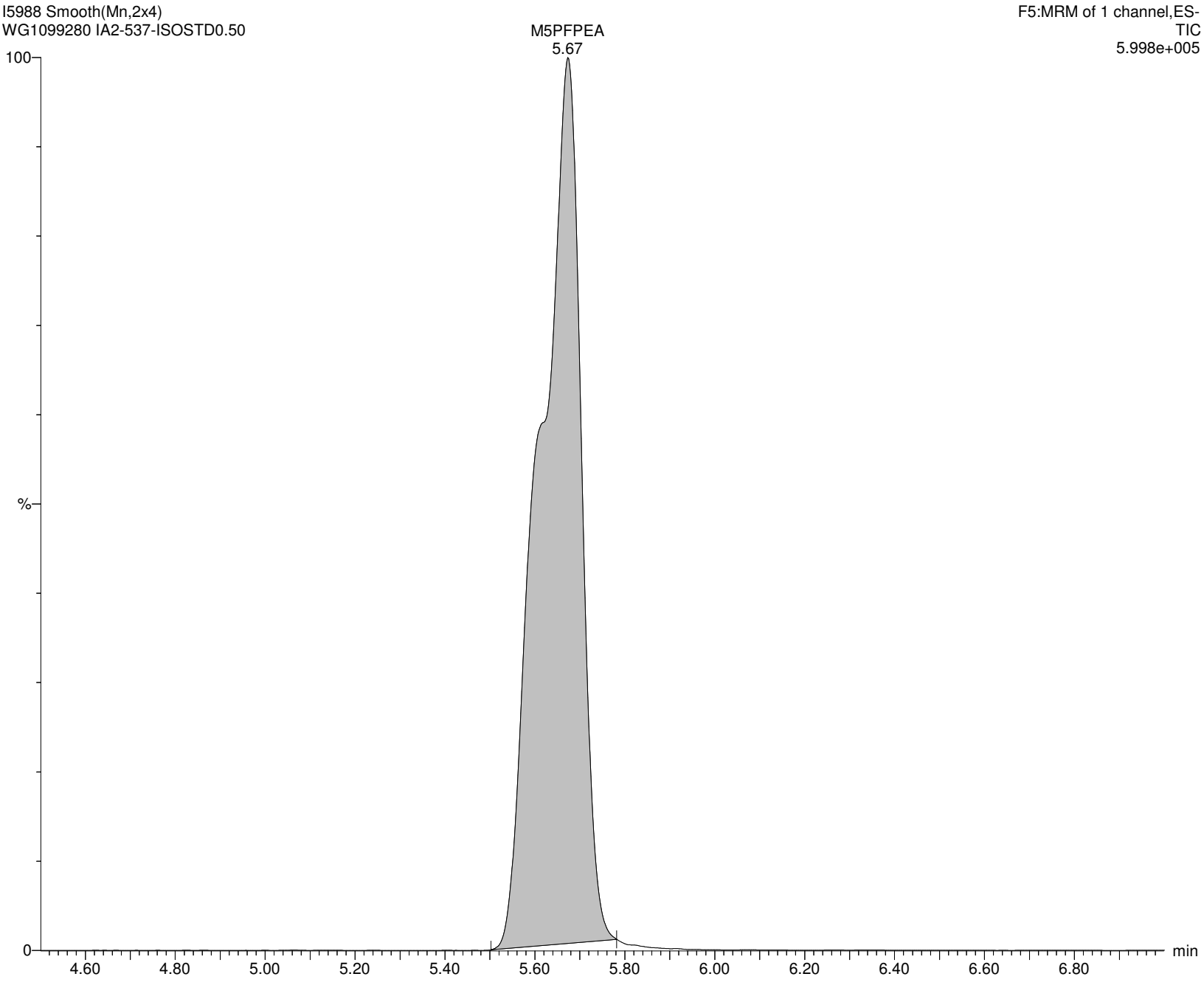
M5PFPEA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
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Vial: 2:A,1
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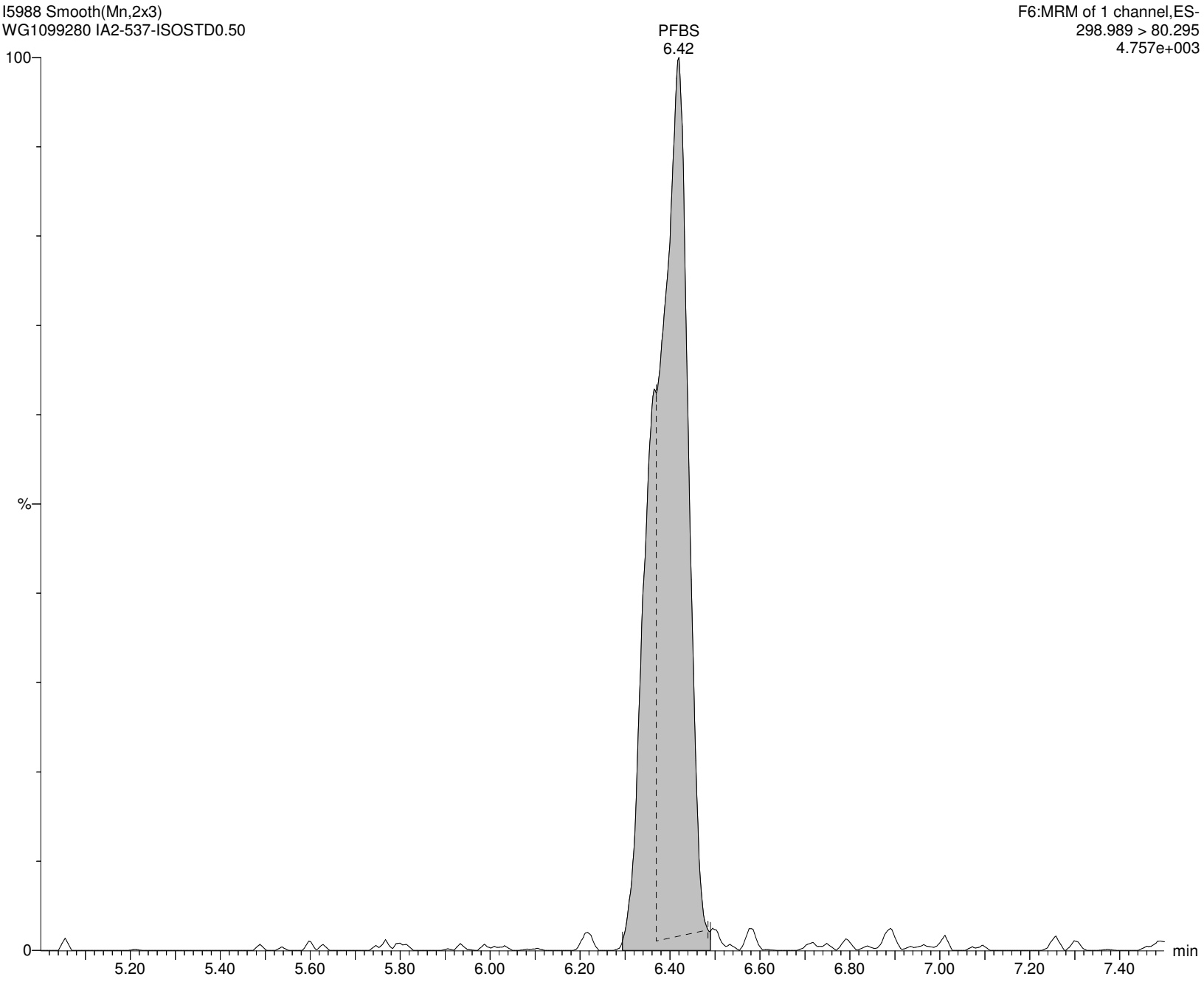
PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
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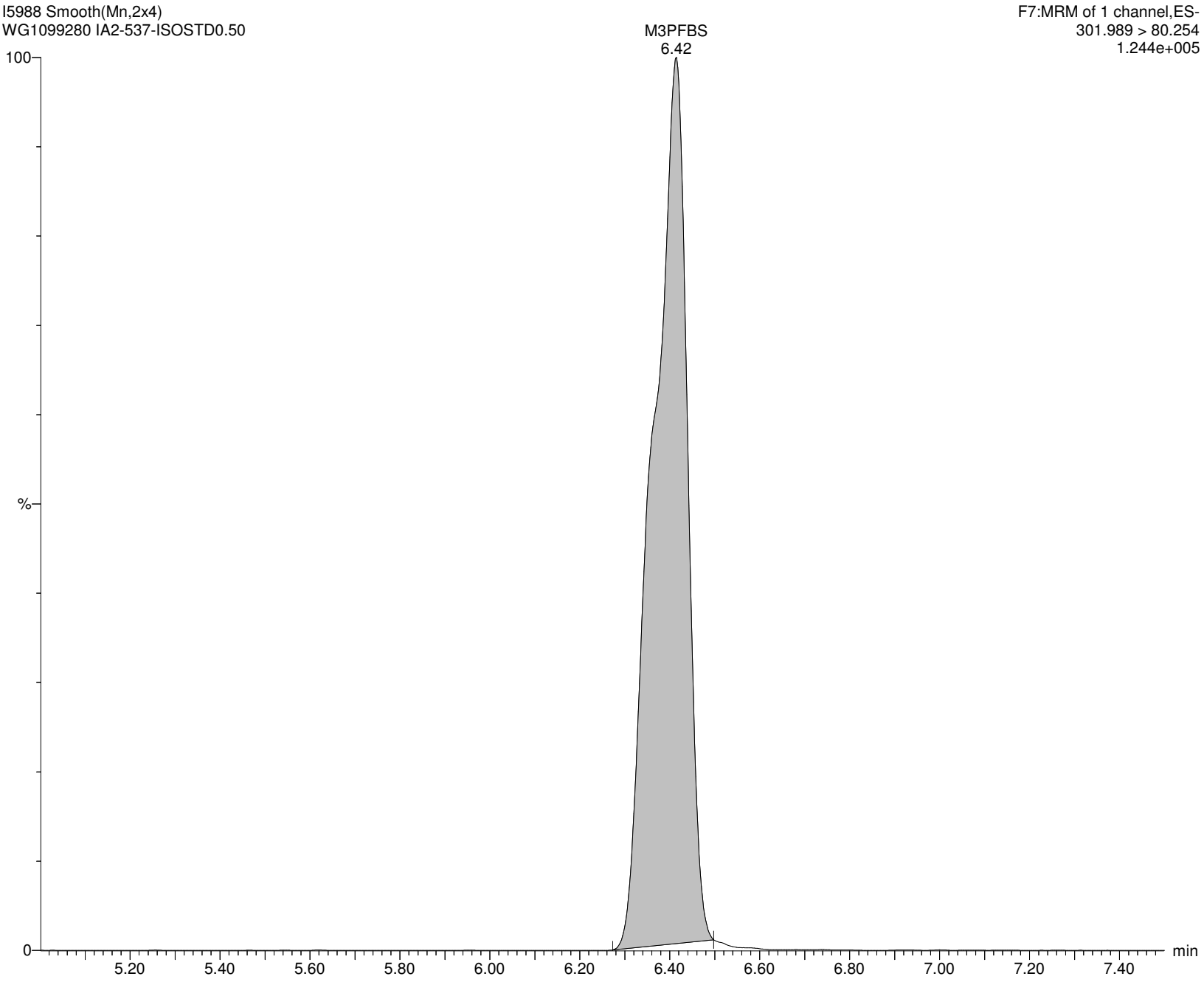
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
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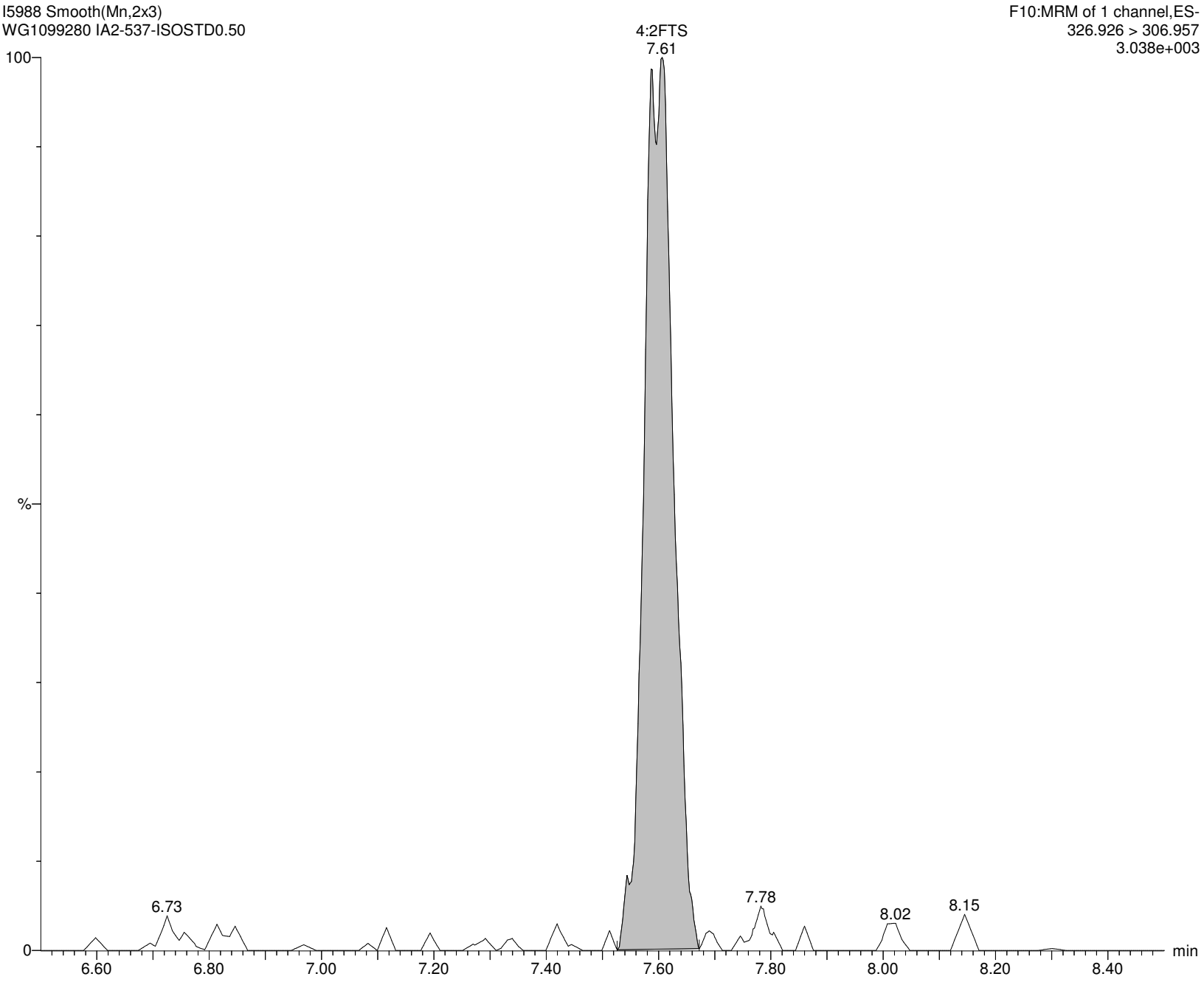
4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
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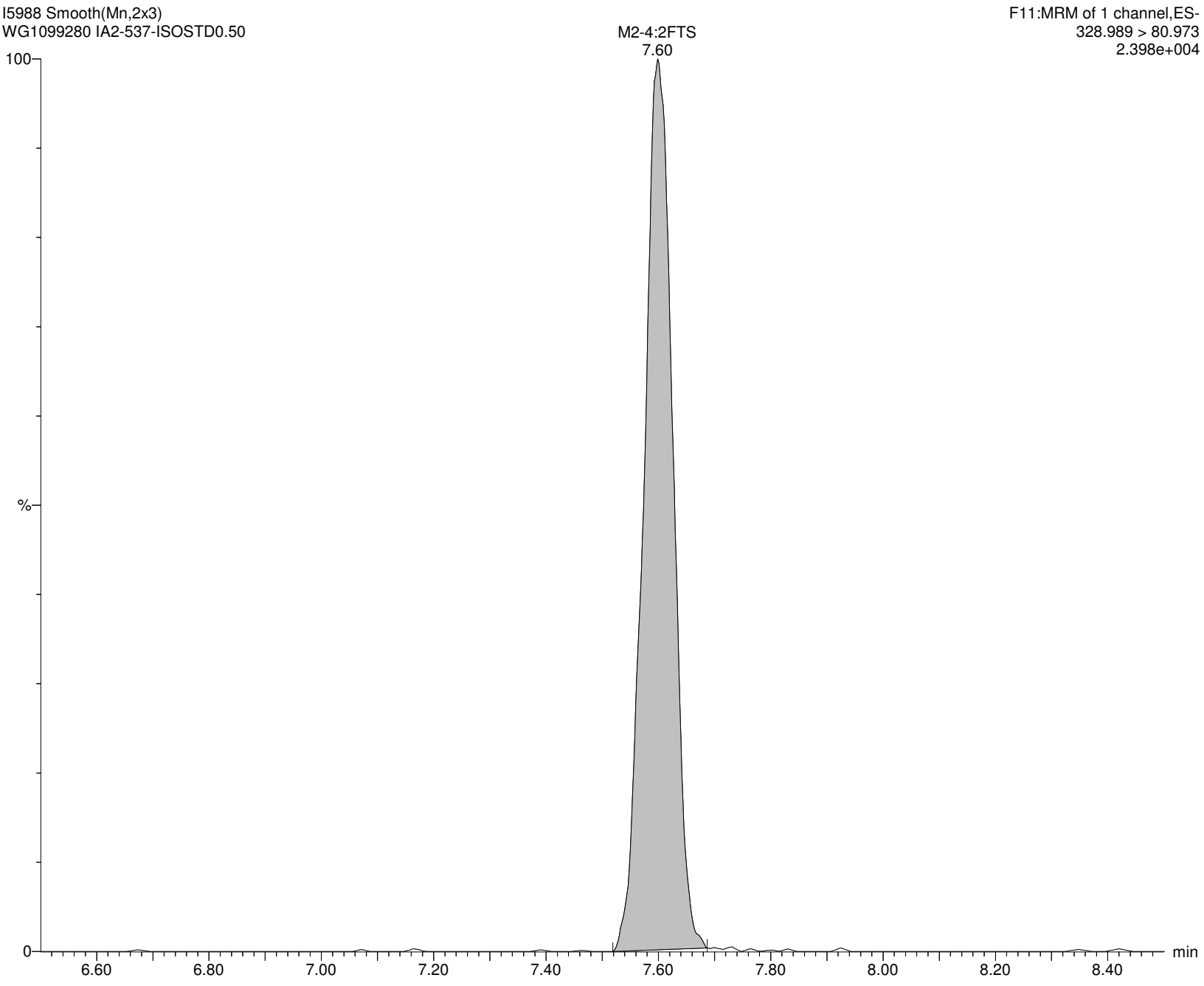

all concentration units in (ng/mL)

Alpha Analytical Inc.
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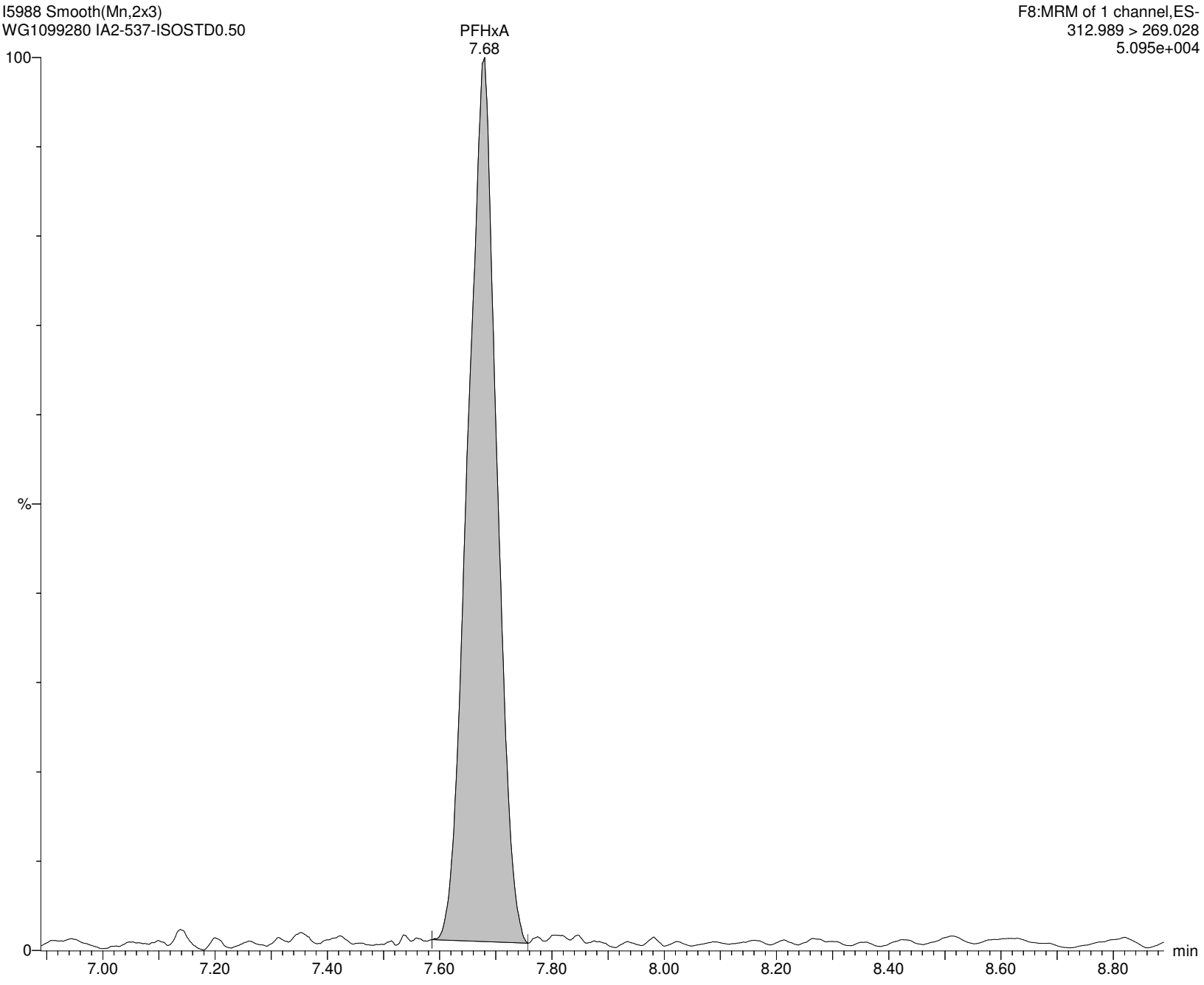

all concentration units in (ng/mL)

Alpha Analytical Inc.
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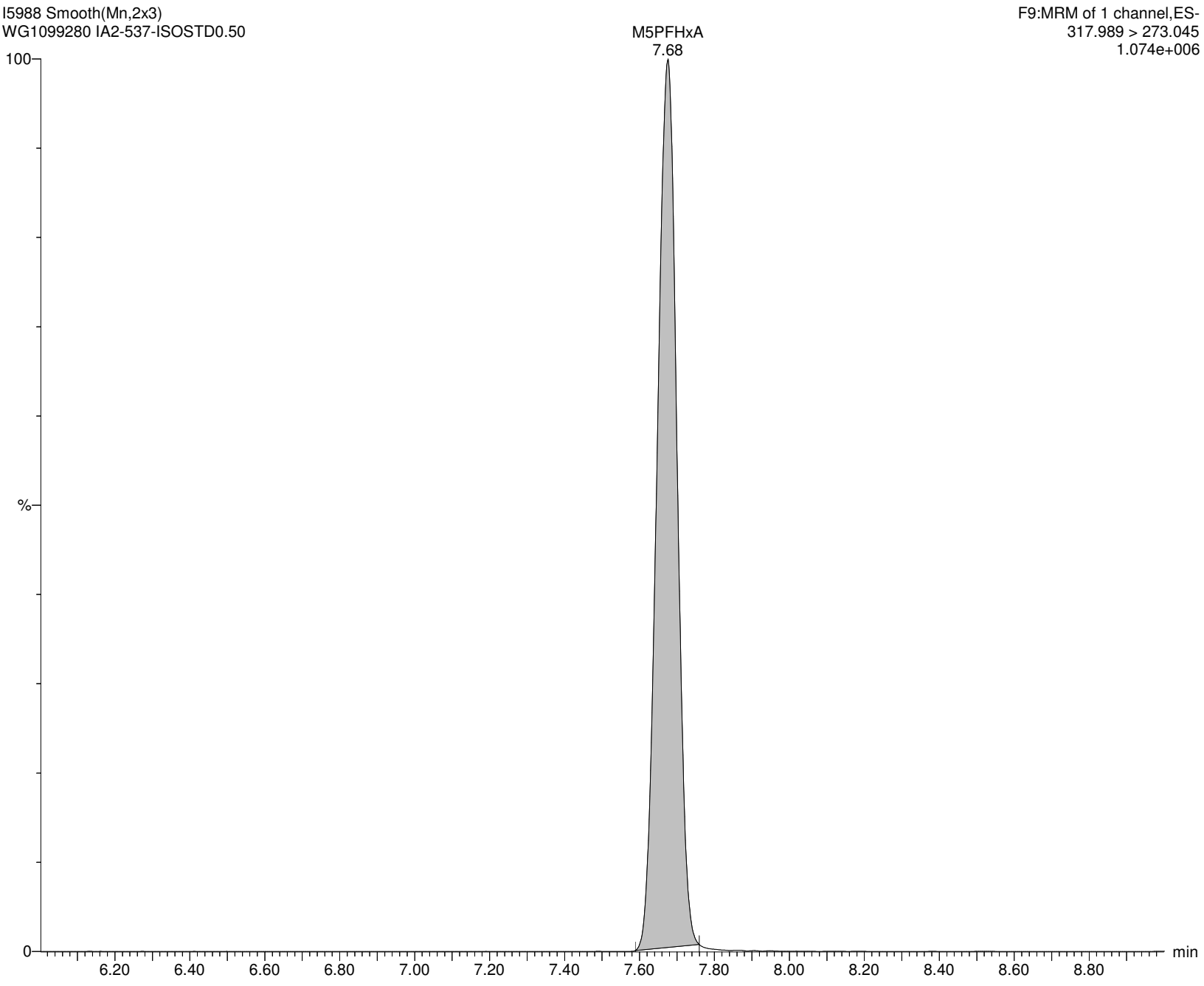

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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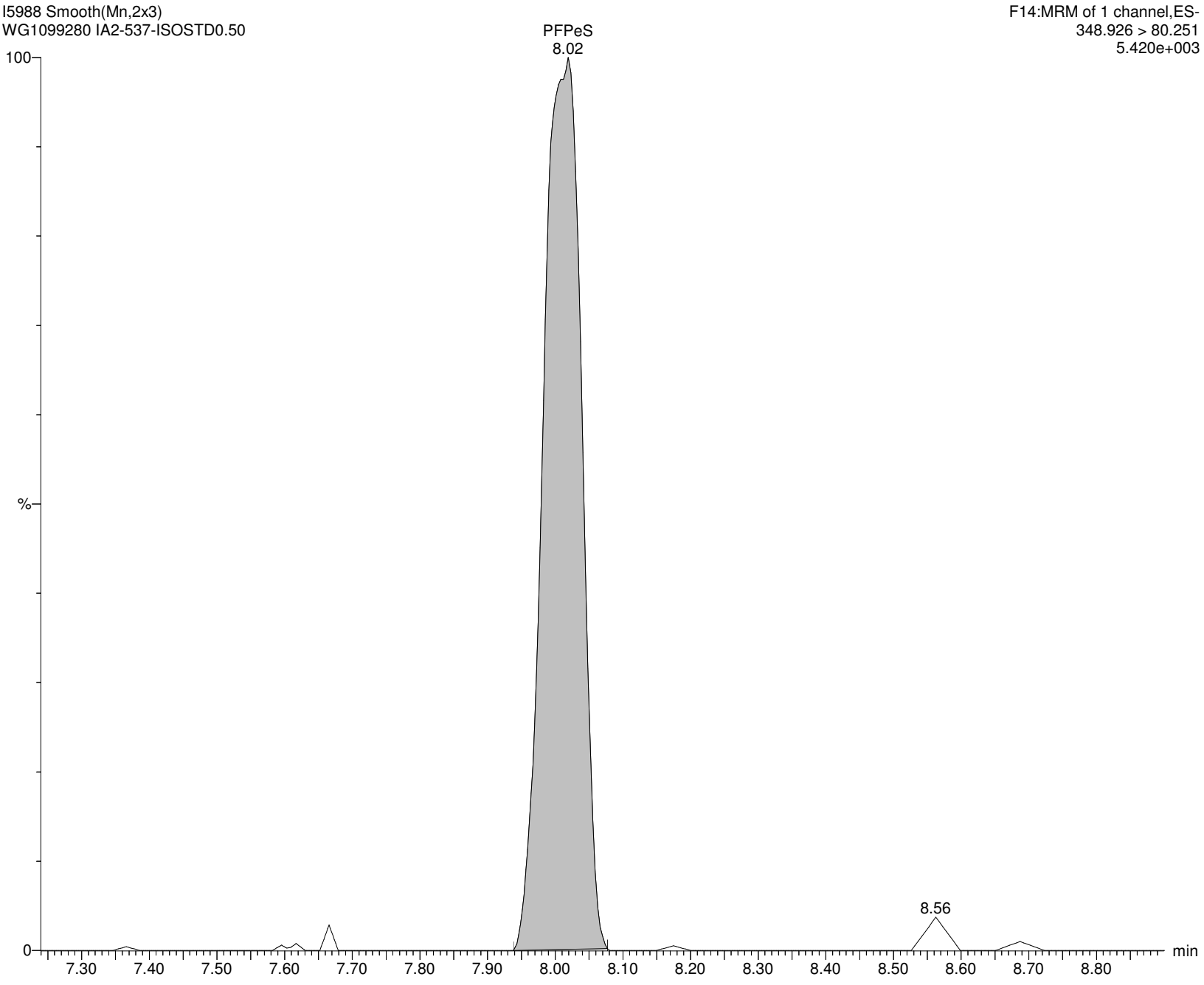

all concentration units in (ng/mL)

Alpha Analytical Inc.
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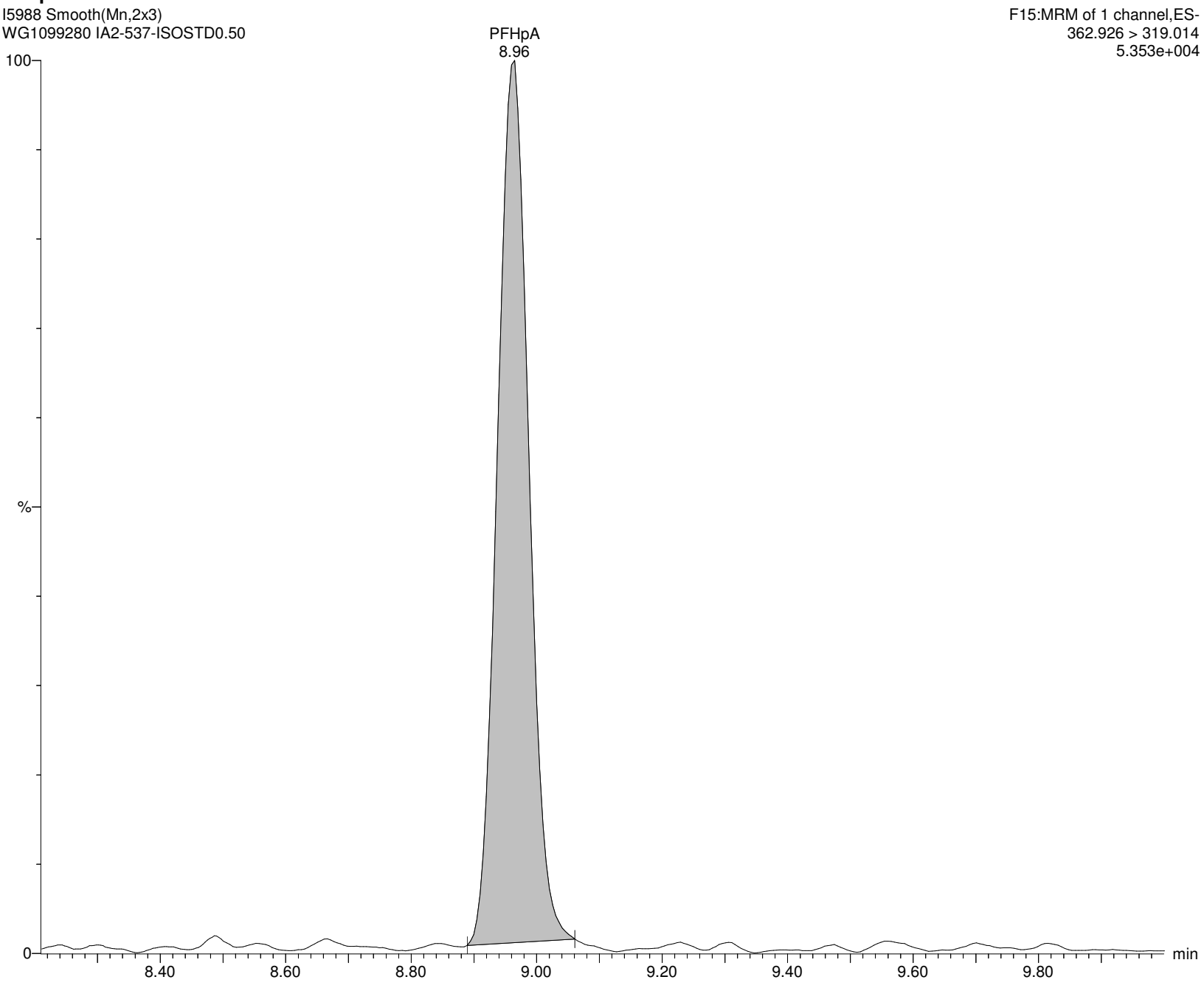

all concentration units in (ng/mL)

Alpha Analytical Inc.
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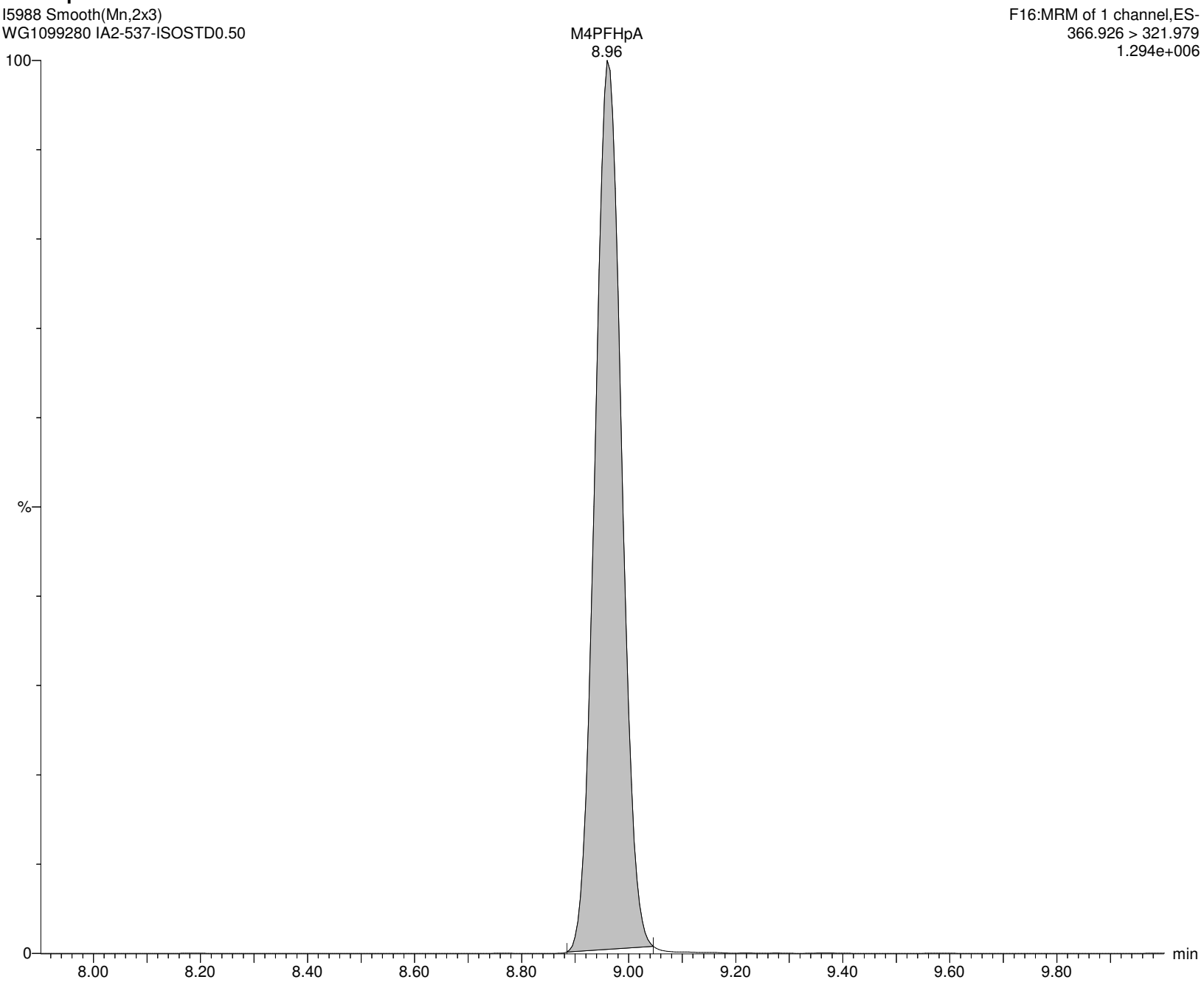

all concentration units in (ng/mL)

Alpha Analytical Inc.
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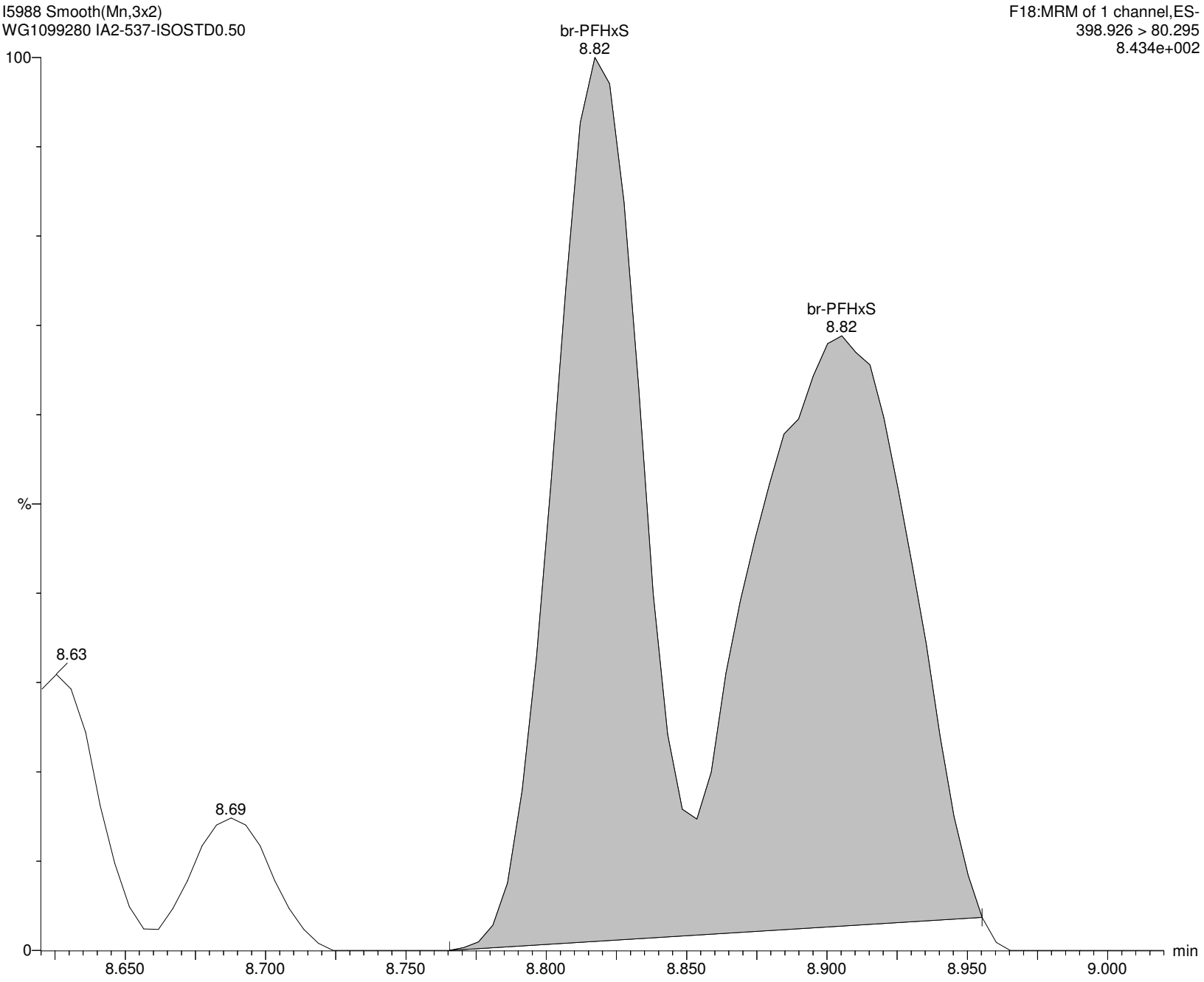

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 15:52:14
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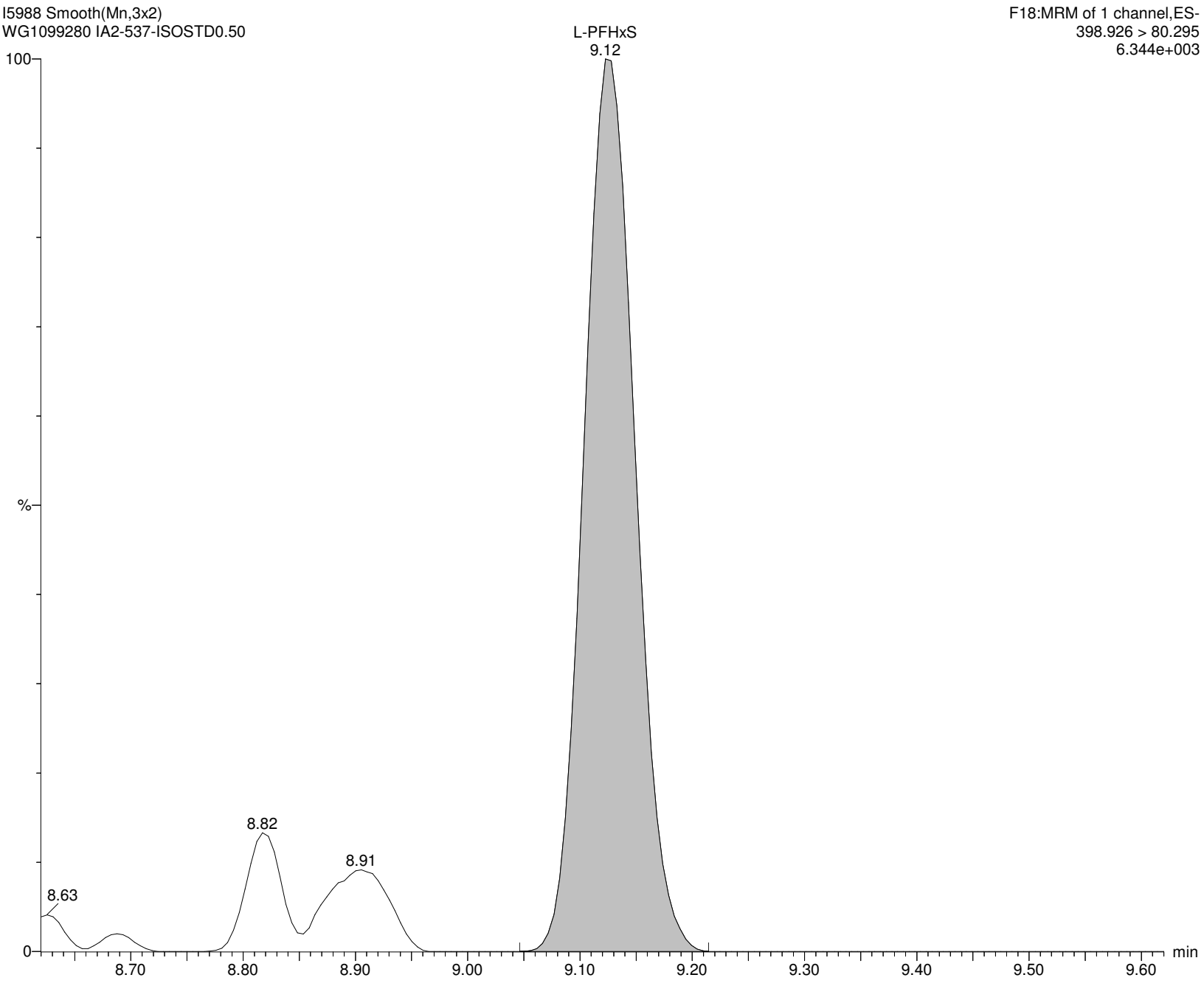

all concentration units in (ng/mL)

Alpha Analytical Inc.
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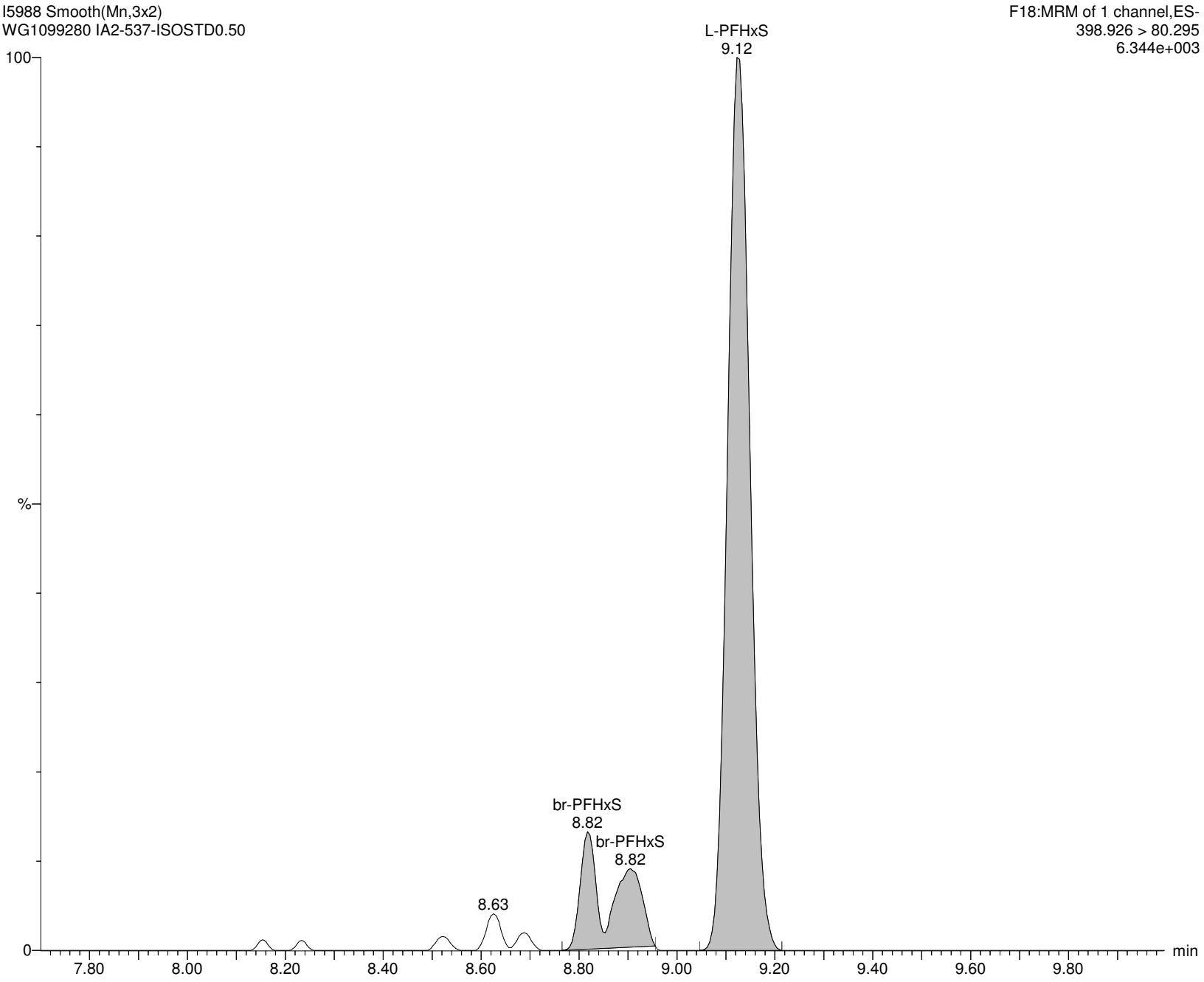

all concentration units in (ng/mL)

Alpha Analytical Inc.
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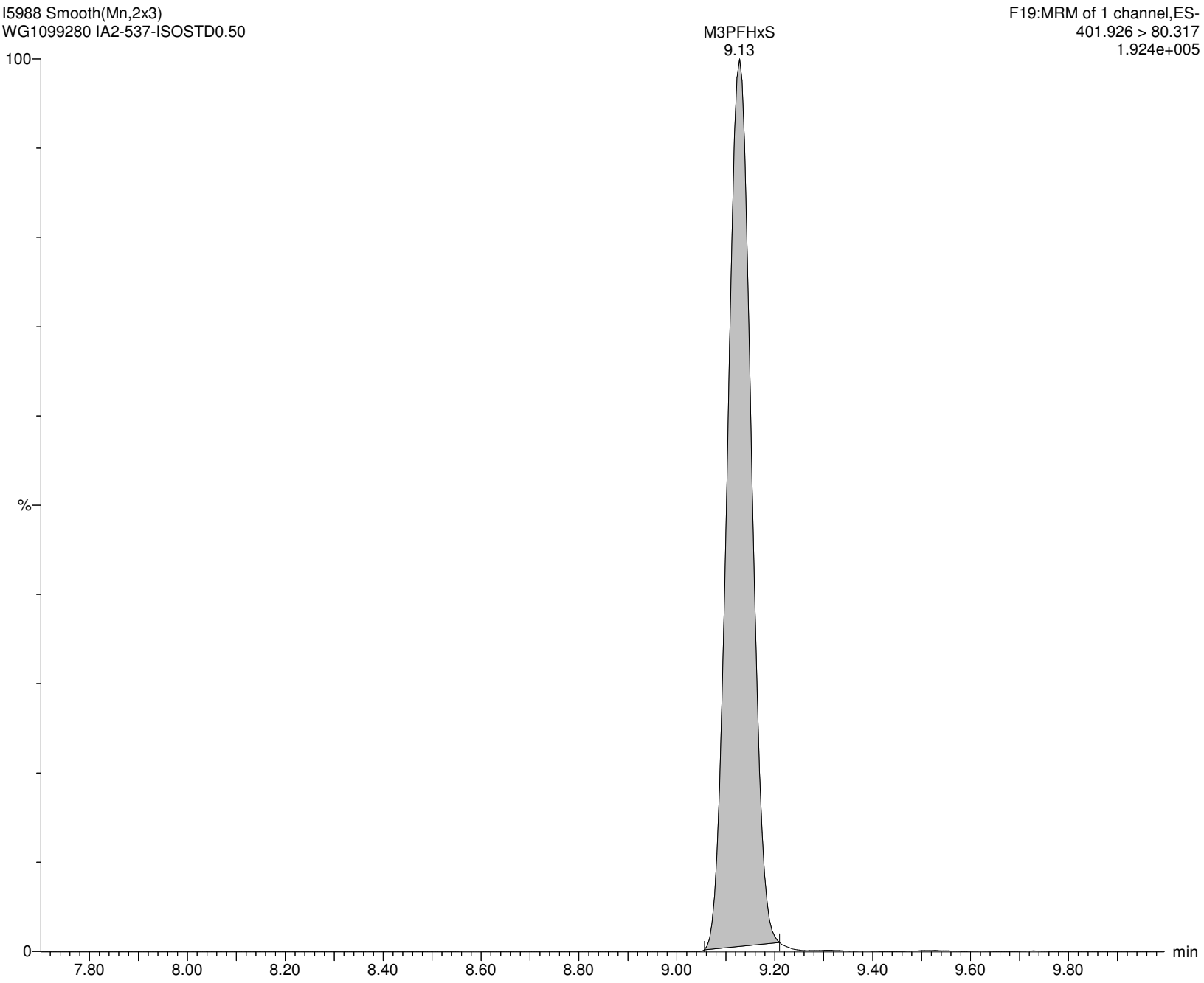

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Time: 15:52:14
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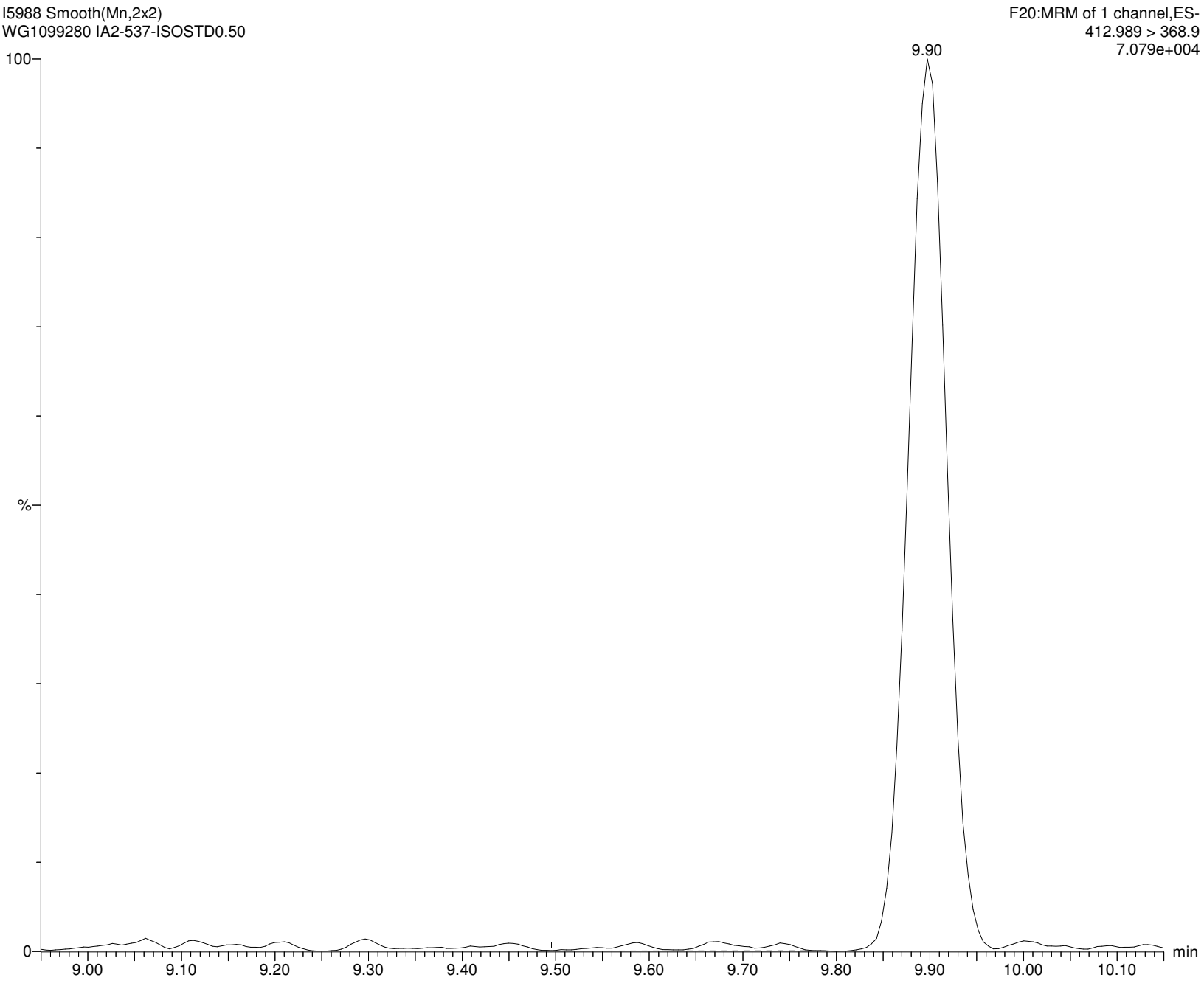

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Date: 21-Mar-2018
Time: 15:52:14
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Vial: 2:A,1
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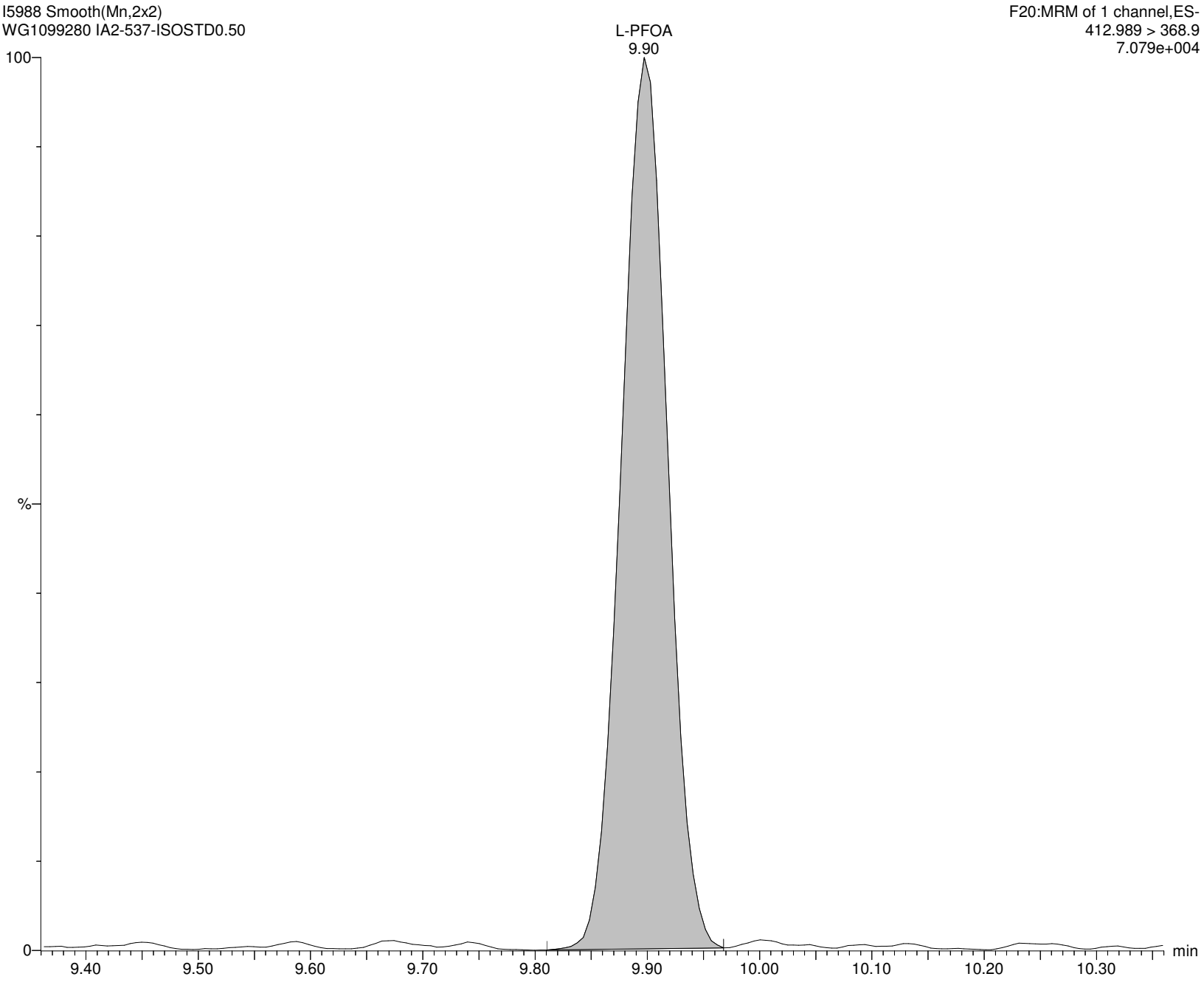

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
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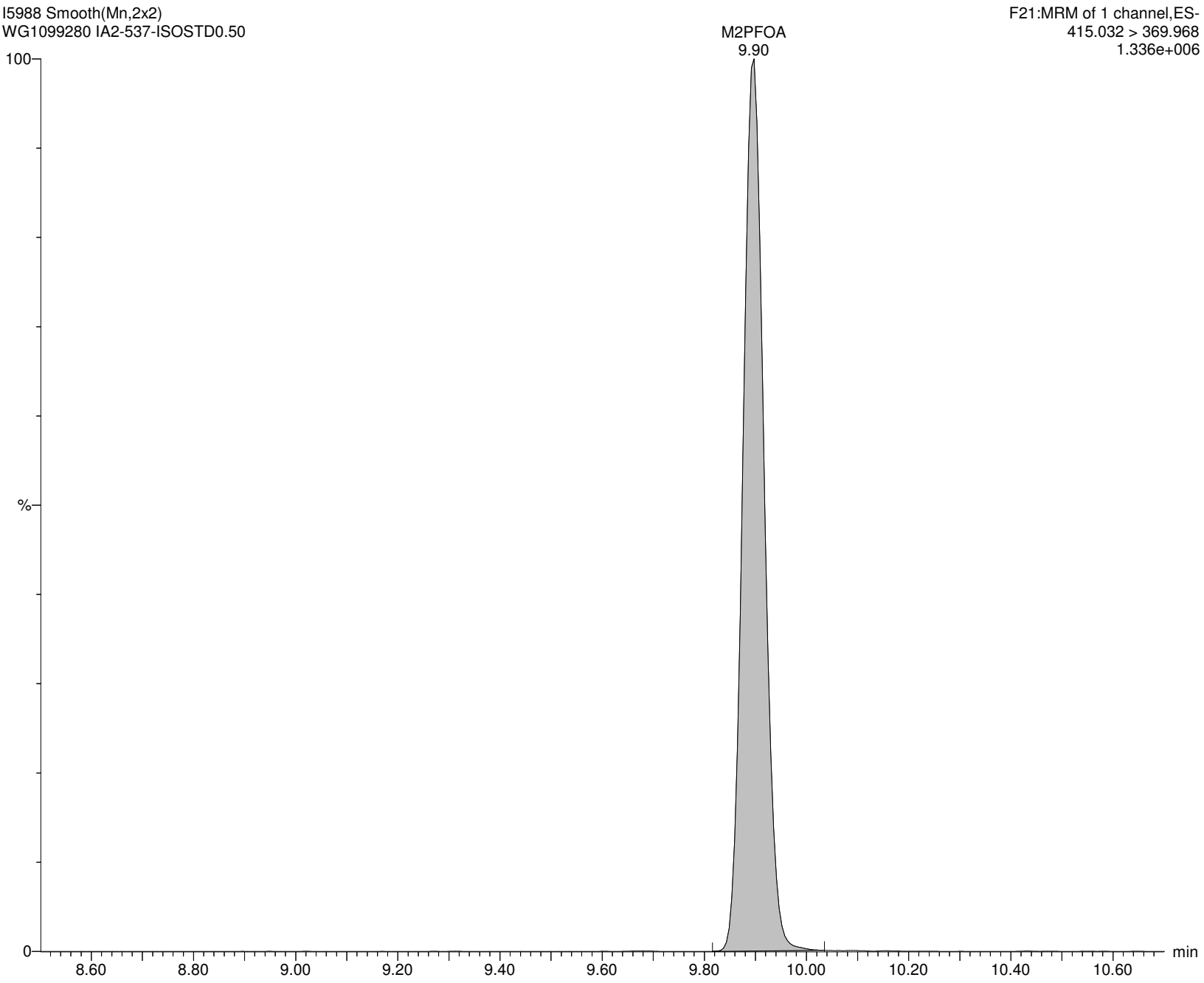

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I5988
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Time: 15:52:14
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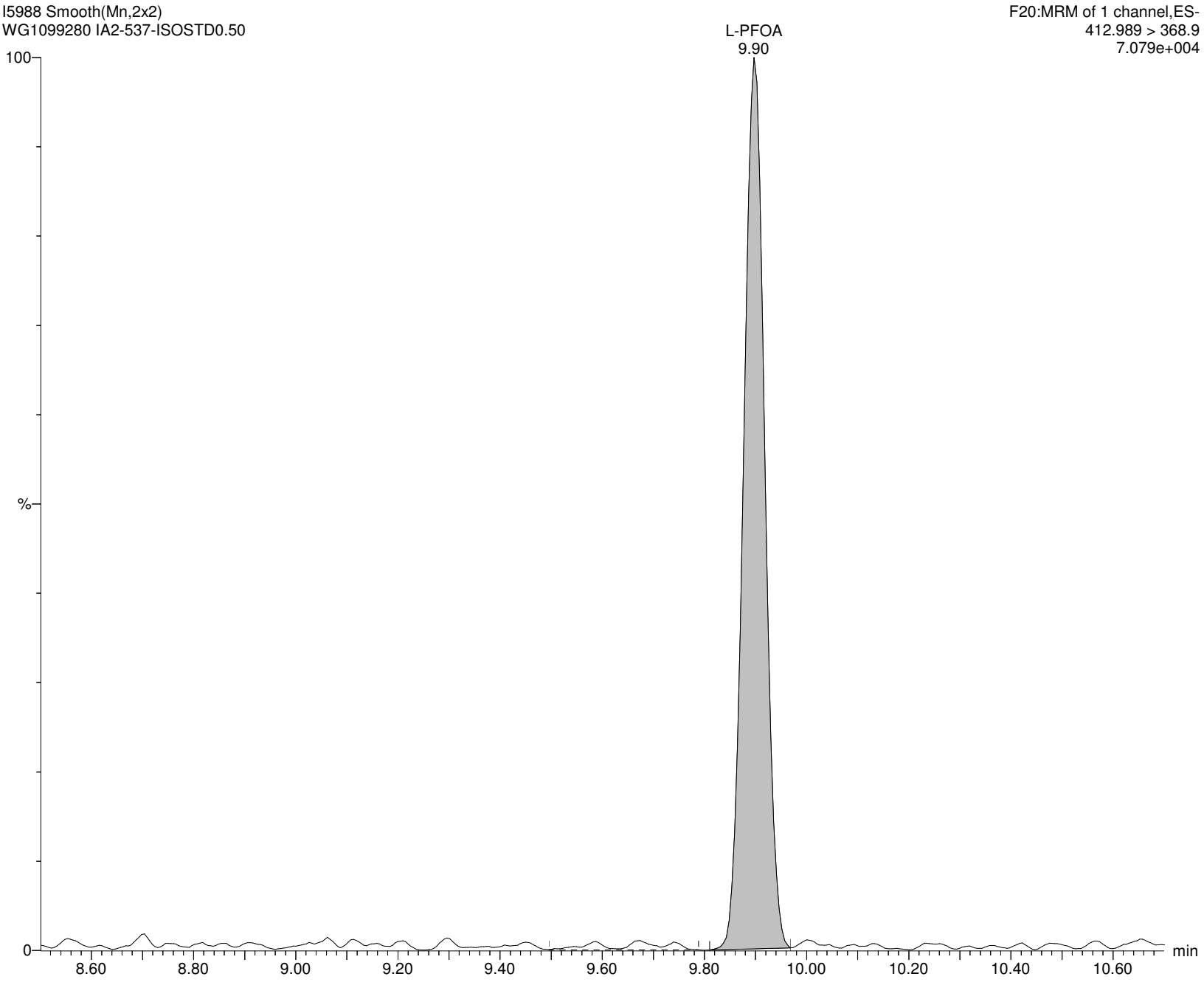

all concentration units in (ng/mL)

Alpha Analytical Inc.
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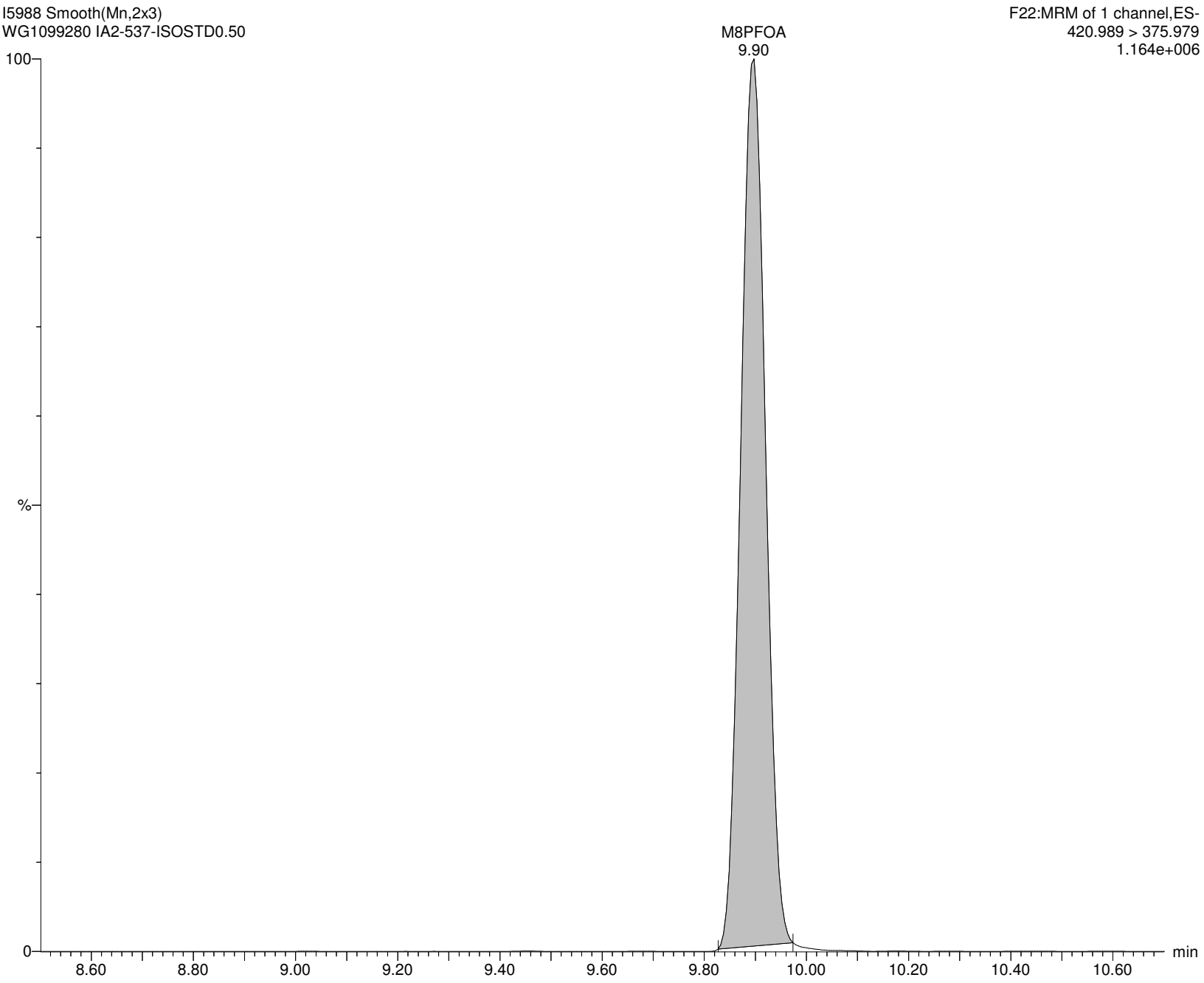

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Time: 15:52:14
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Vial: 2:A,1
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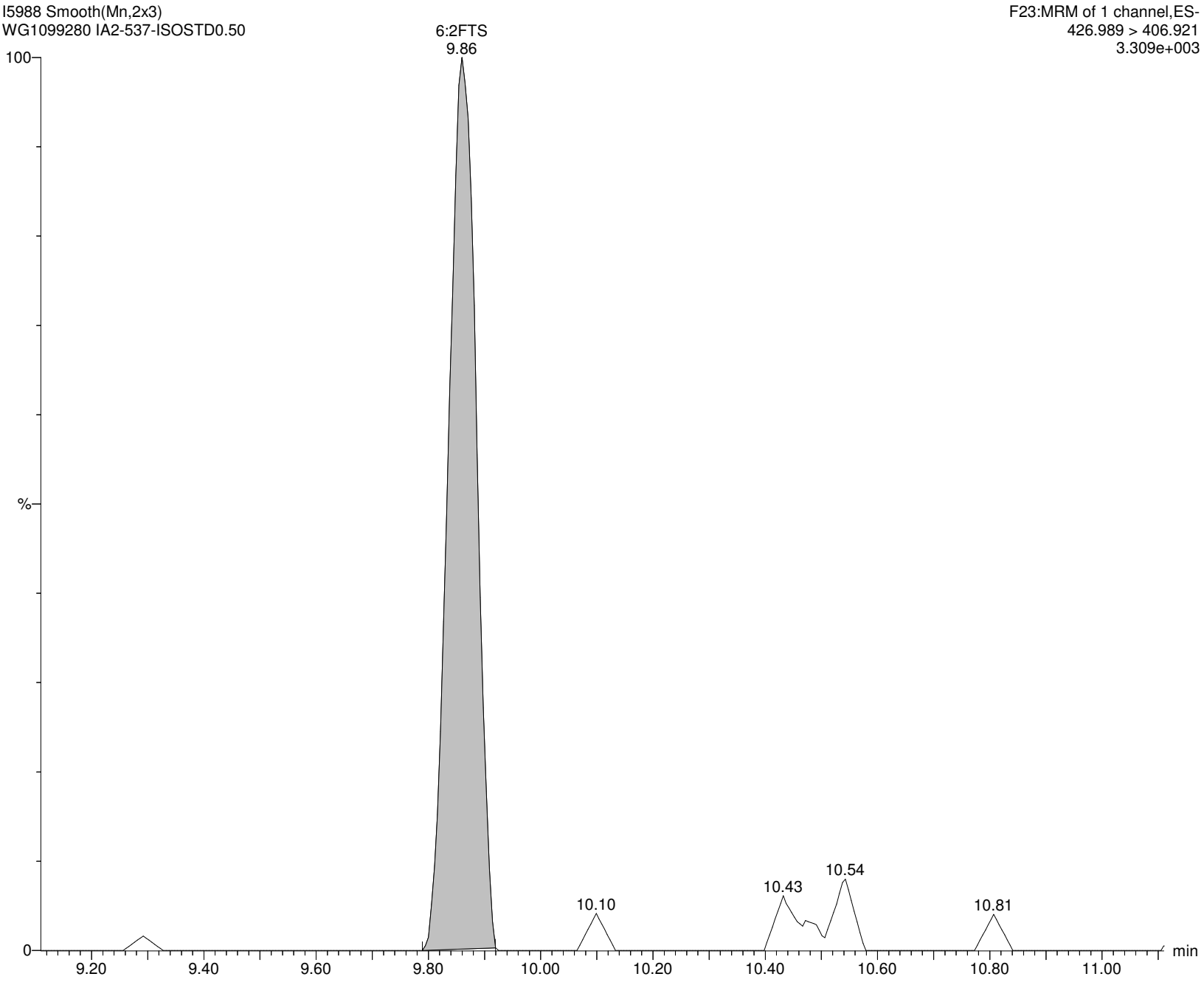
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
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Vial: 2:A,1
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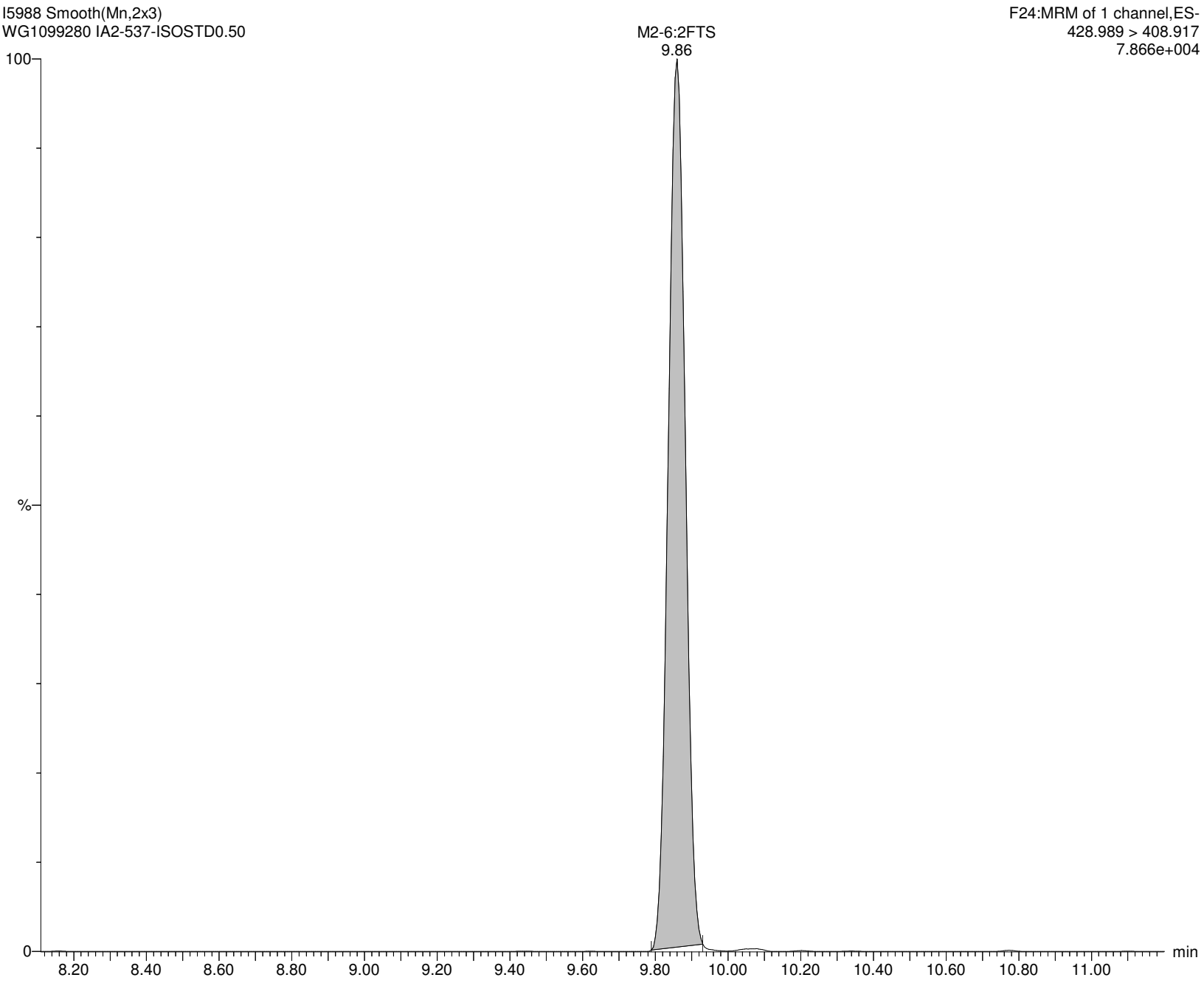
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Vial: 2:A,1
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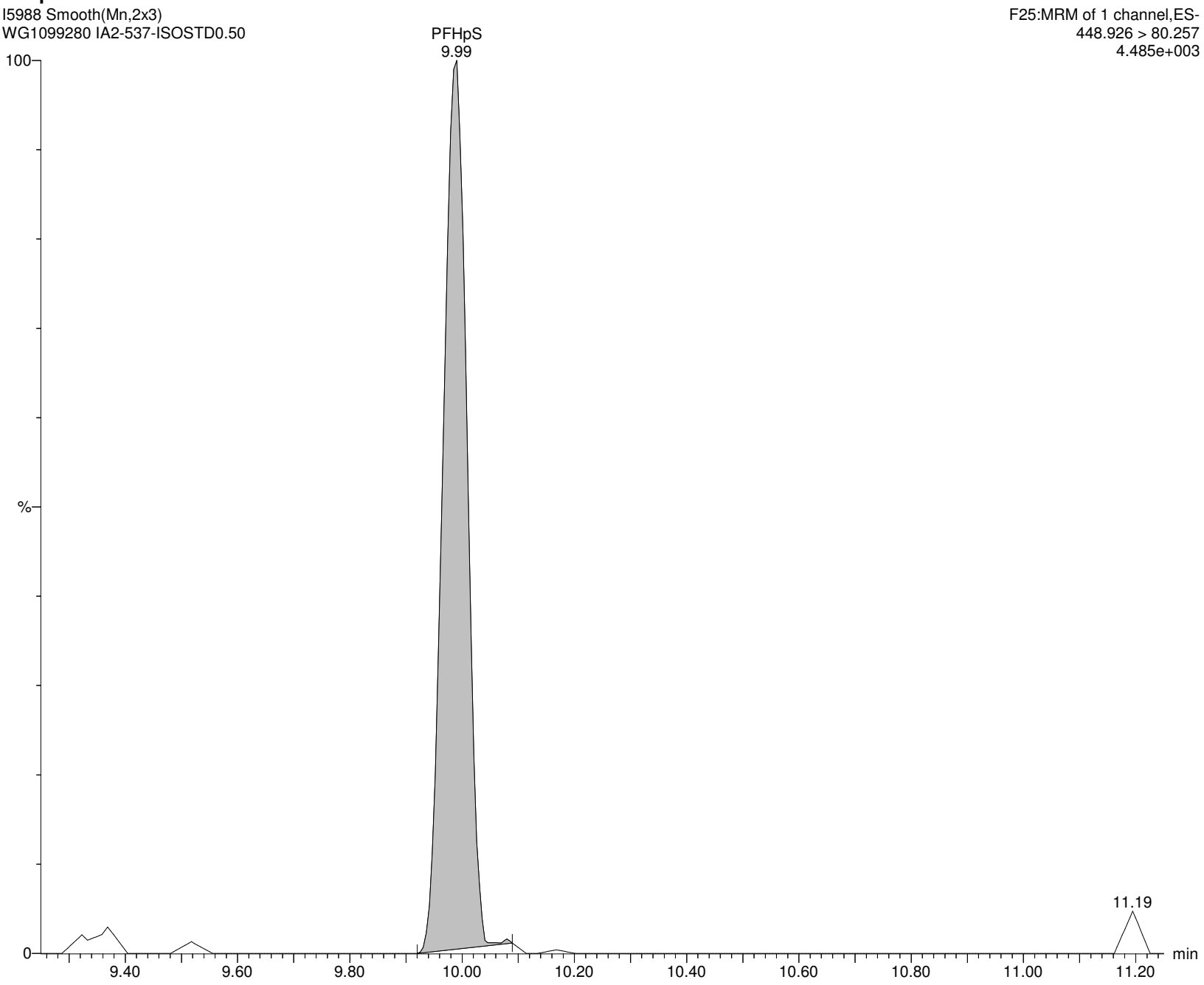
PFHpS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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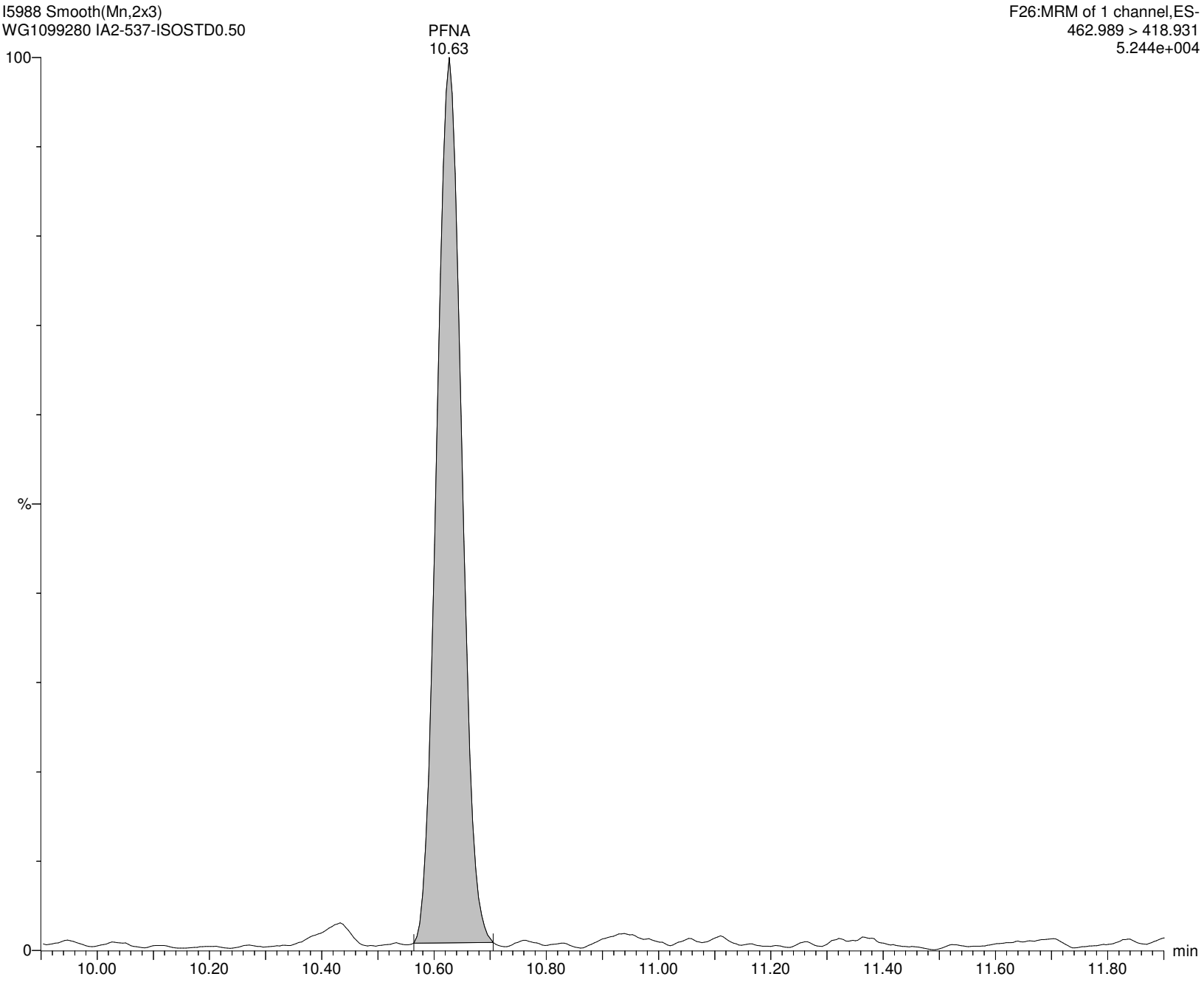

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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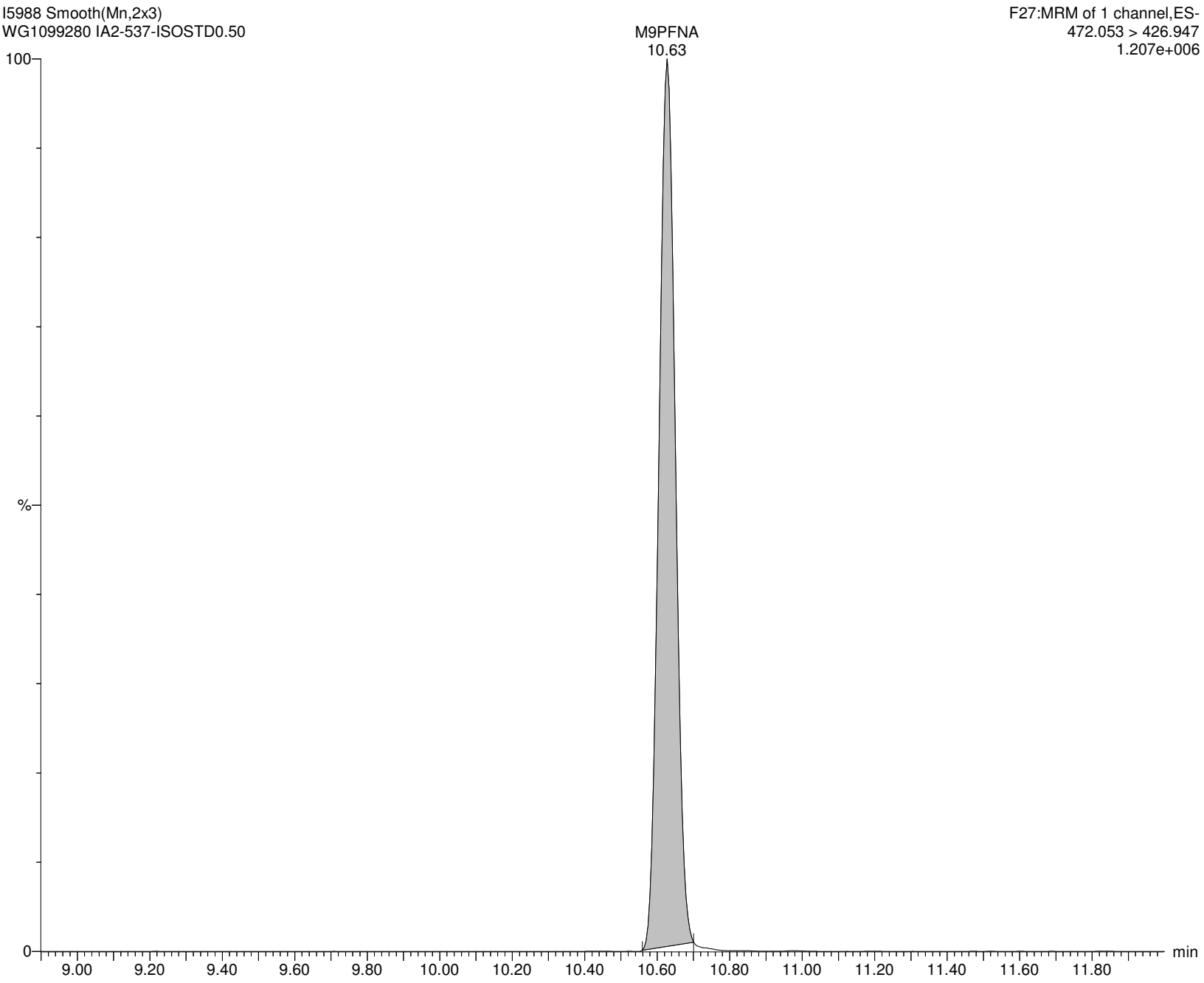

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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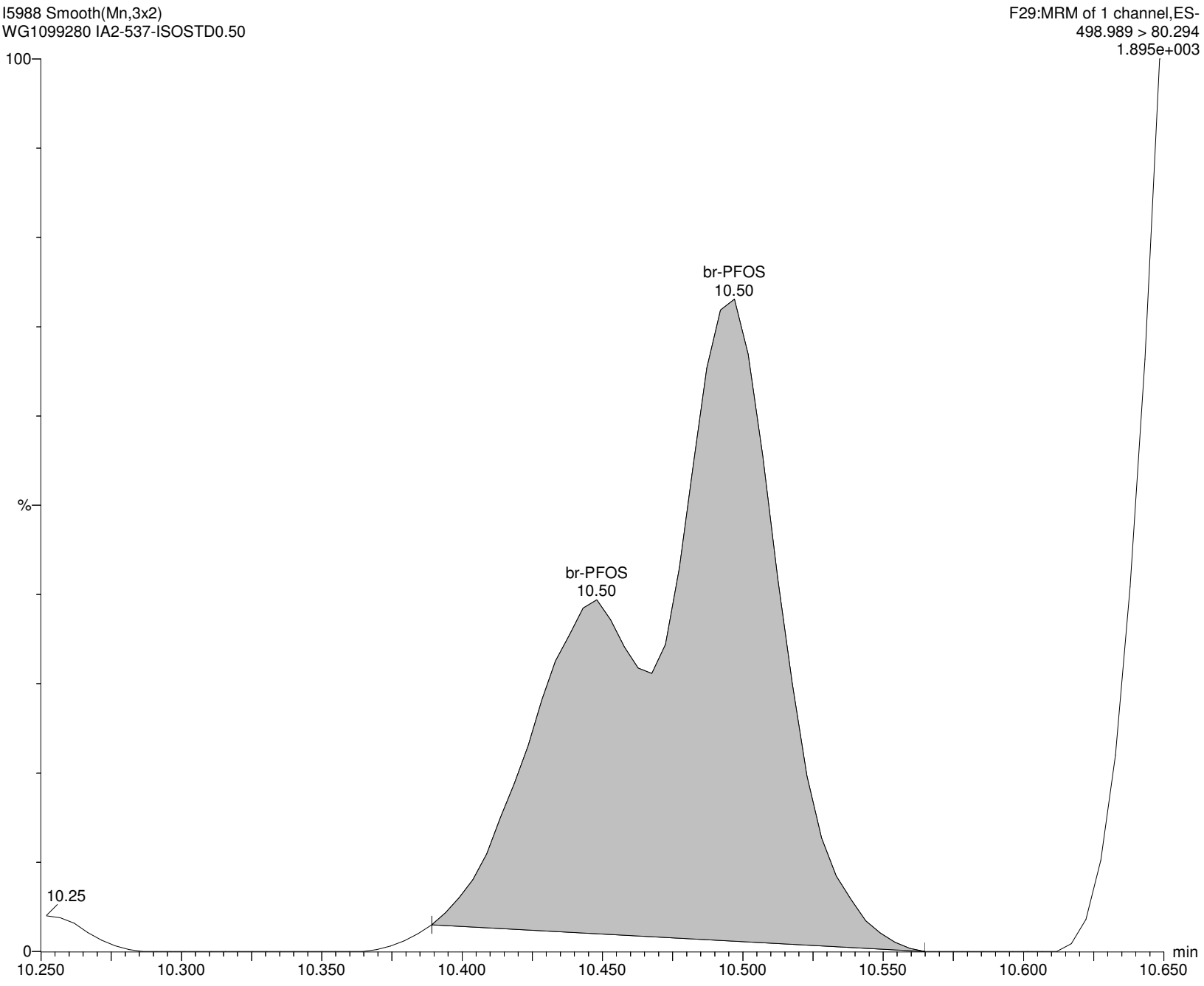

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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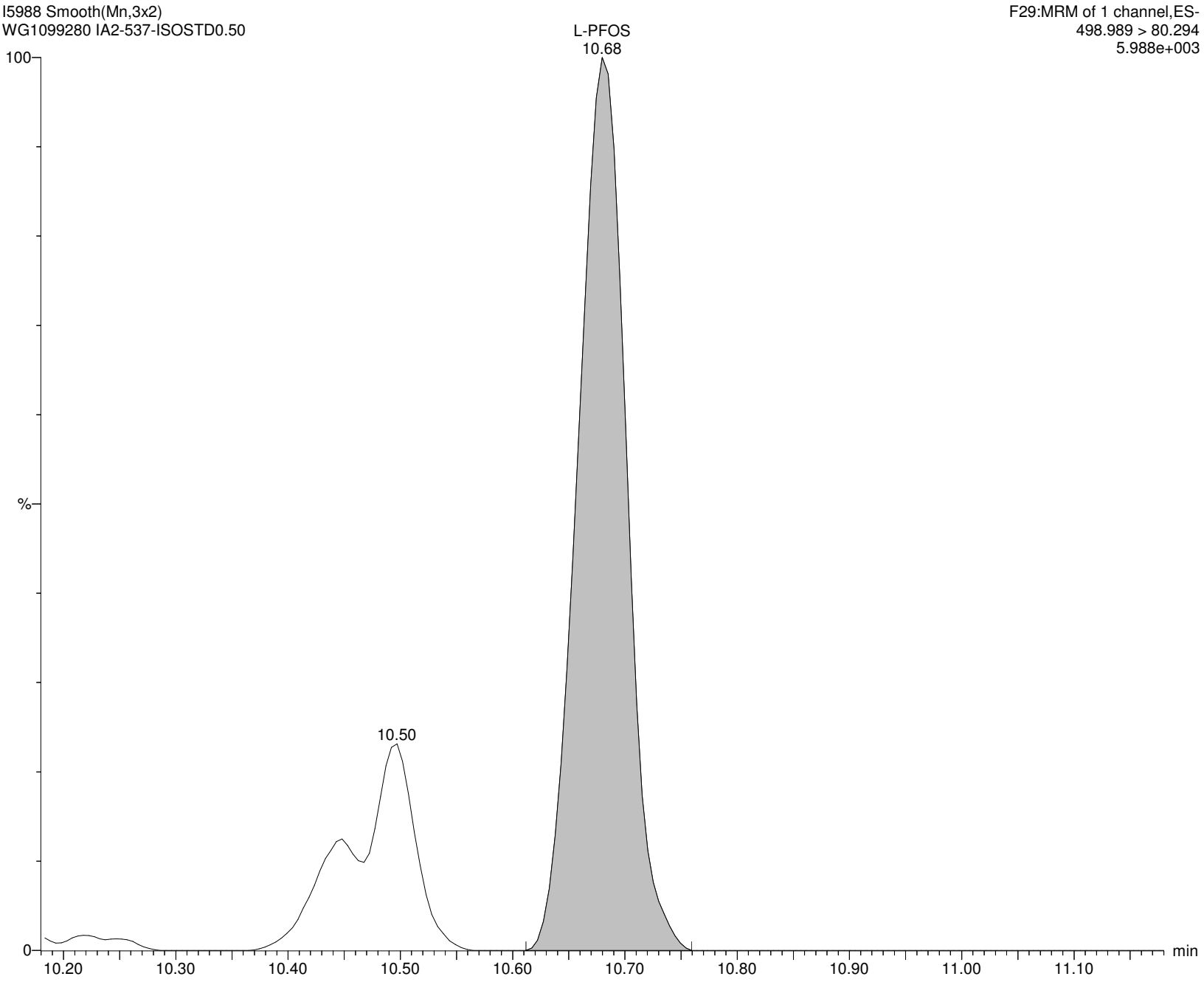

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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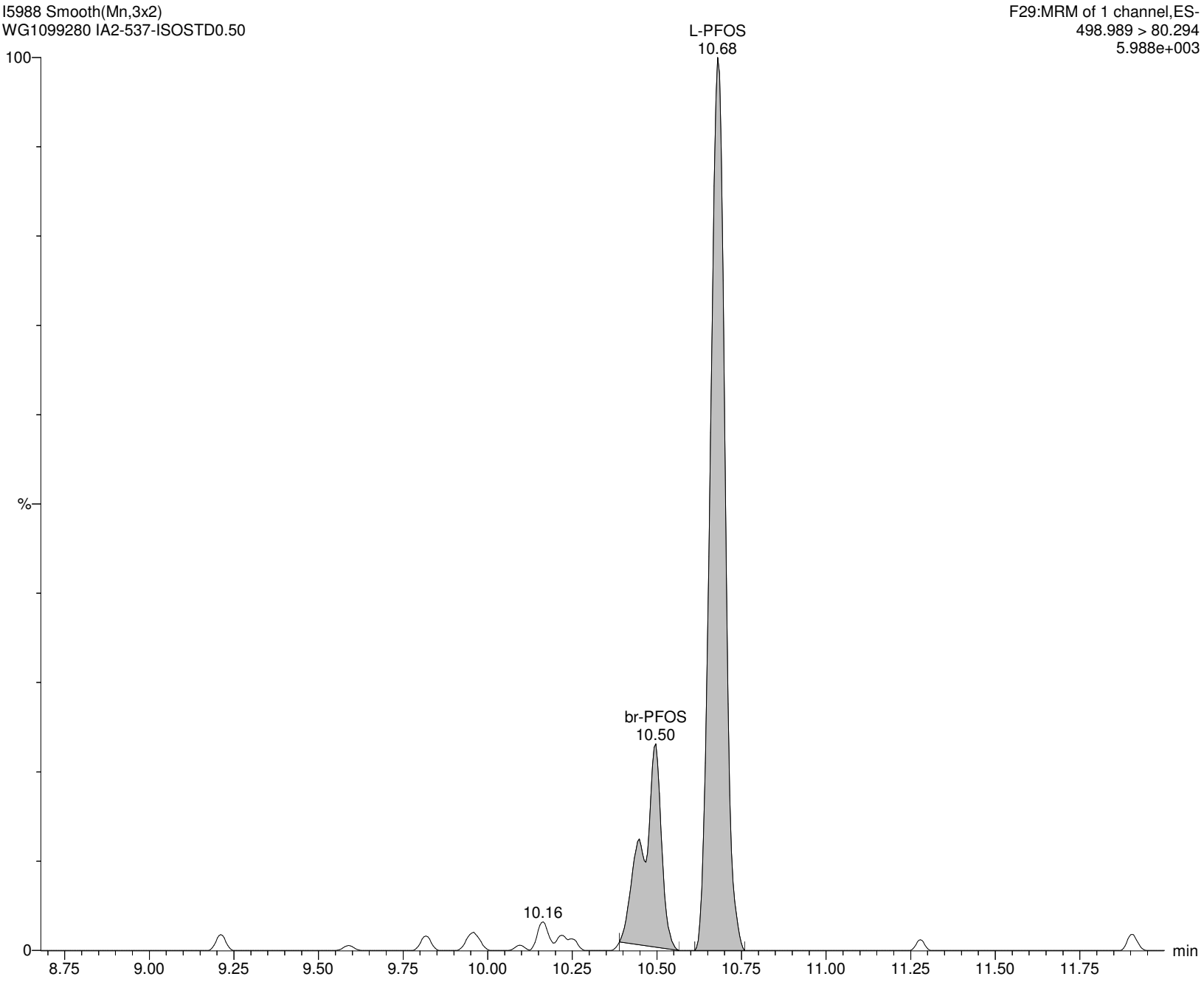

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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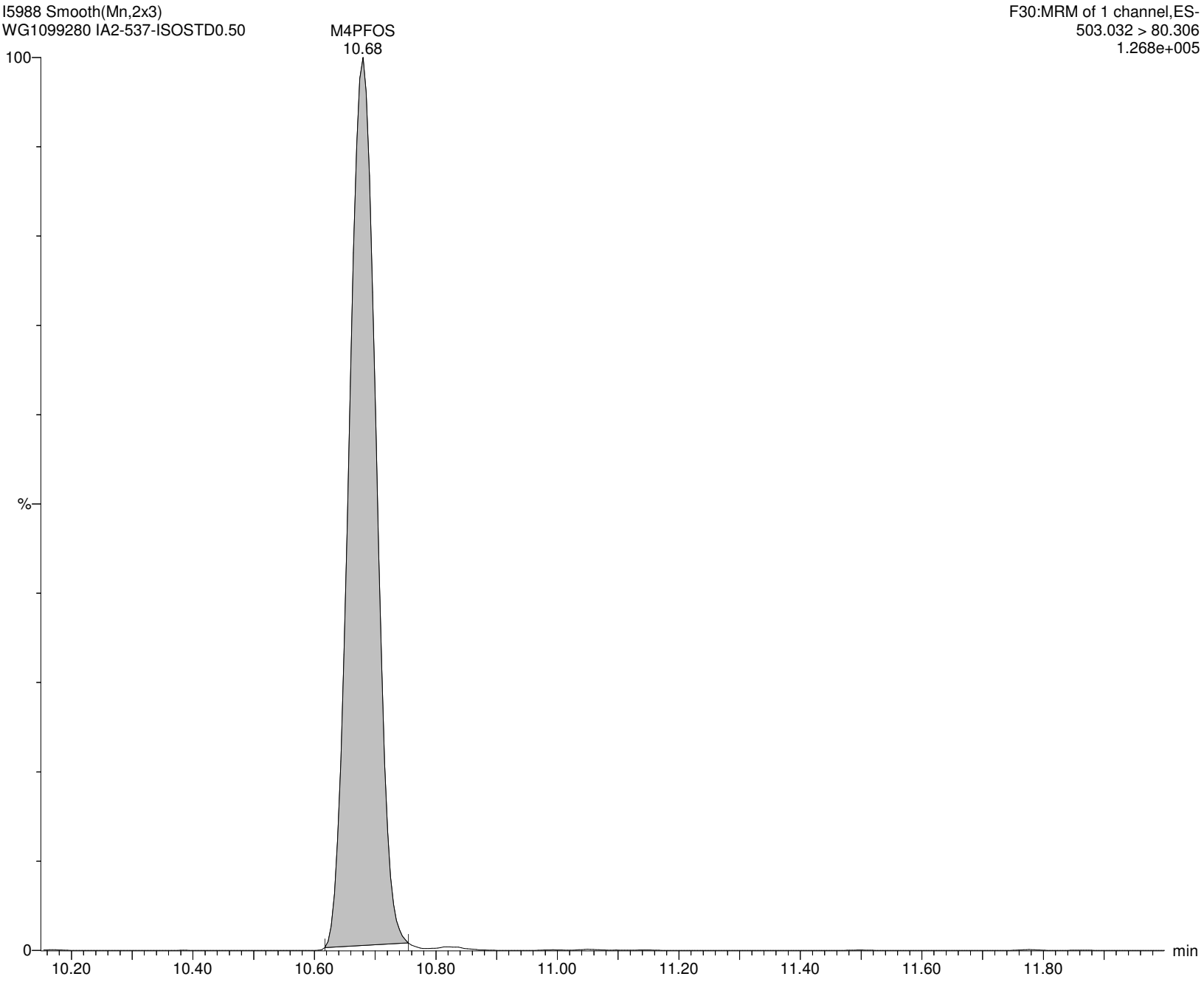

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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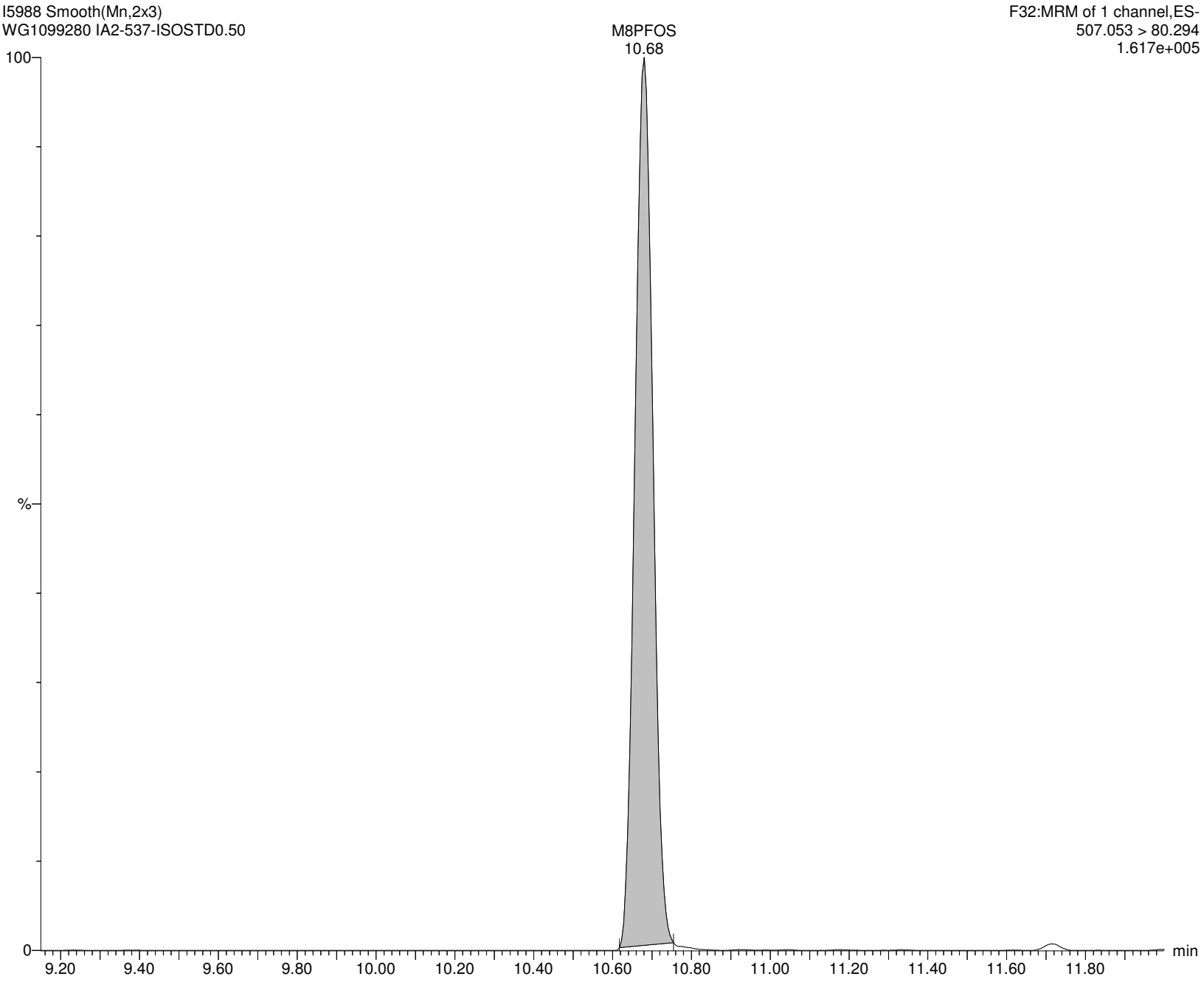

all concentration units in (ng/mL)

Alpha Analytical Inc.
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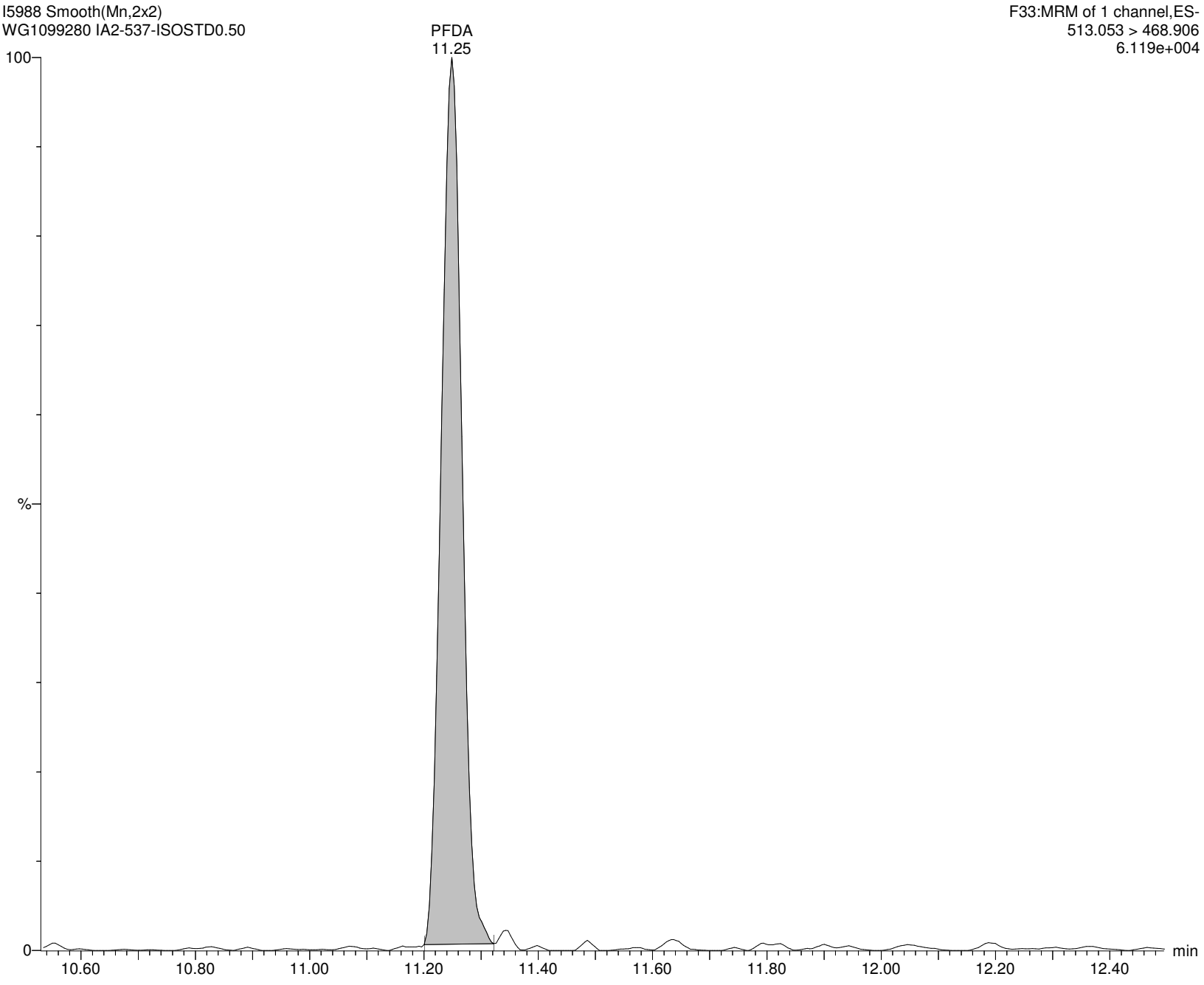

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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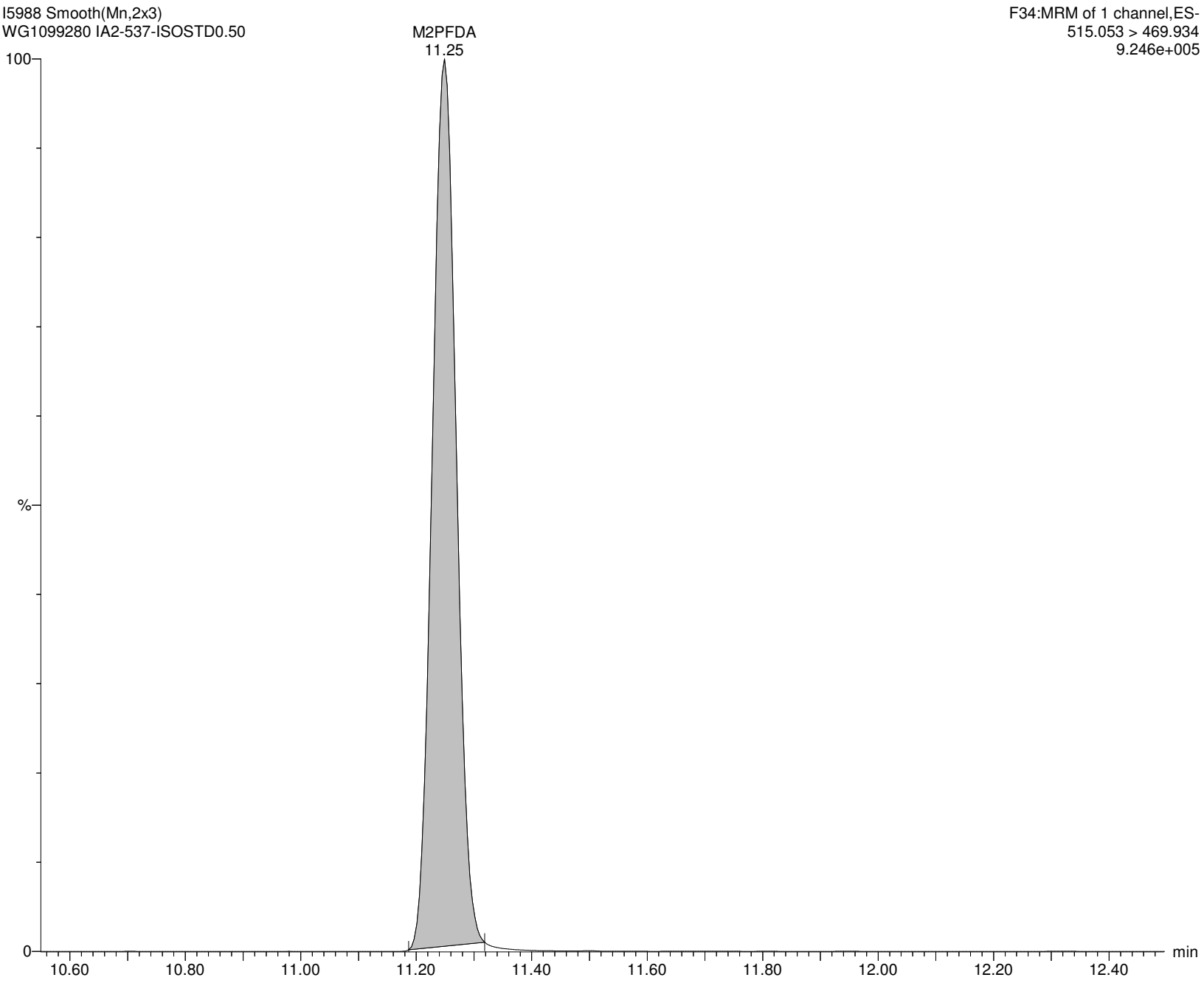

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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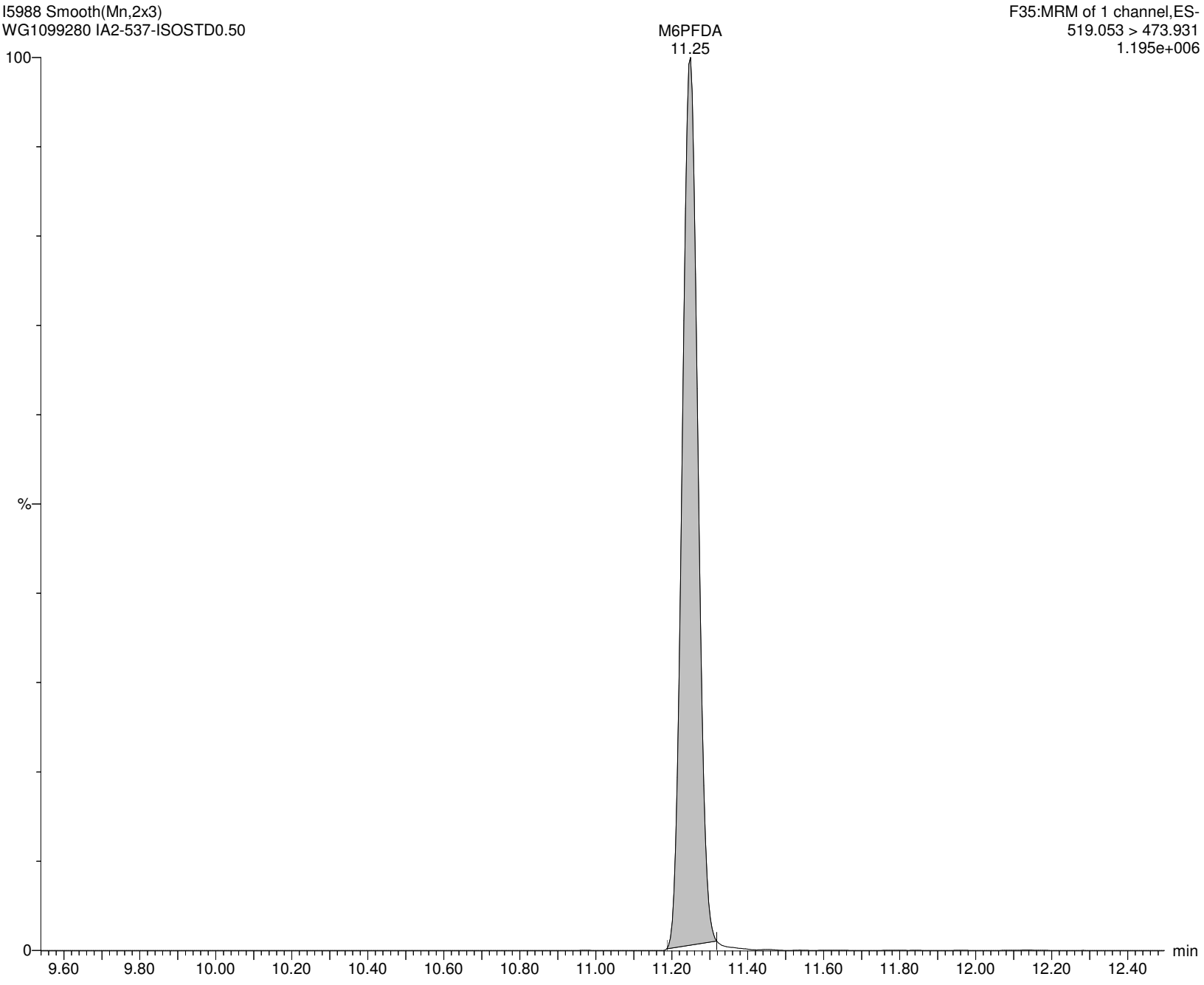

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
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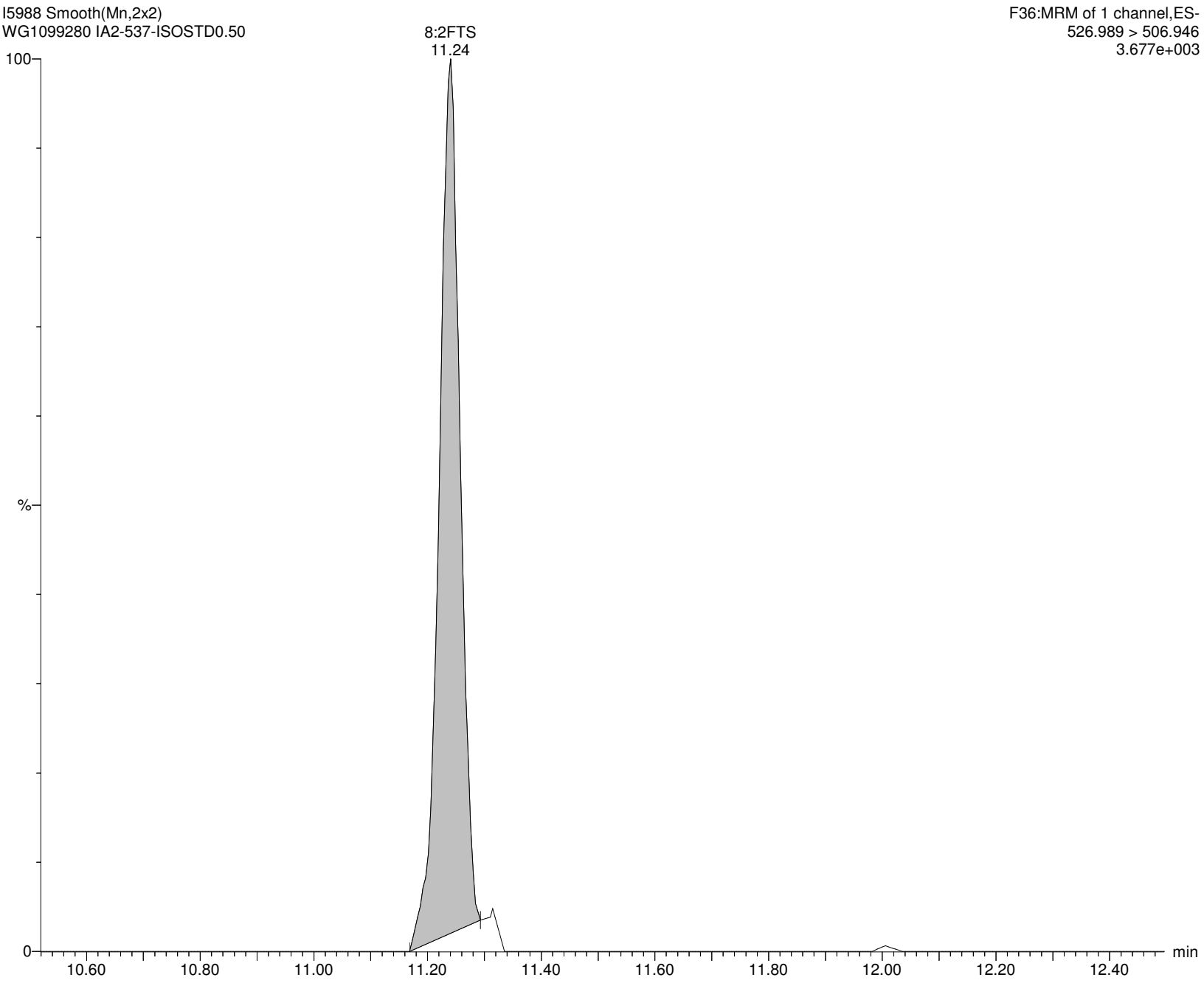
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Vial: 2:A,1
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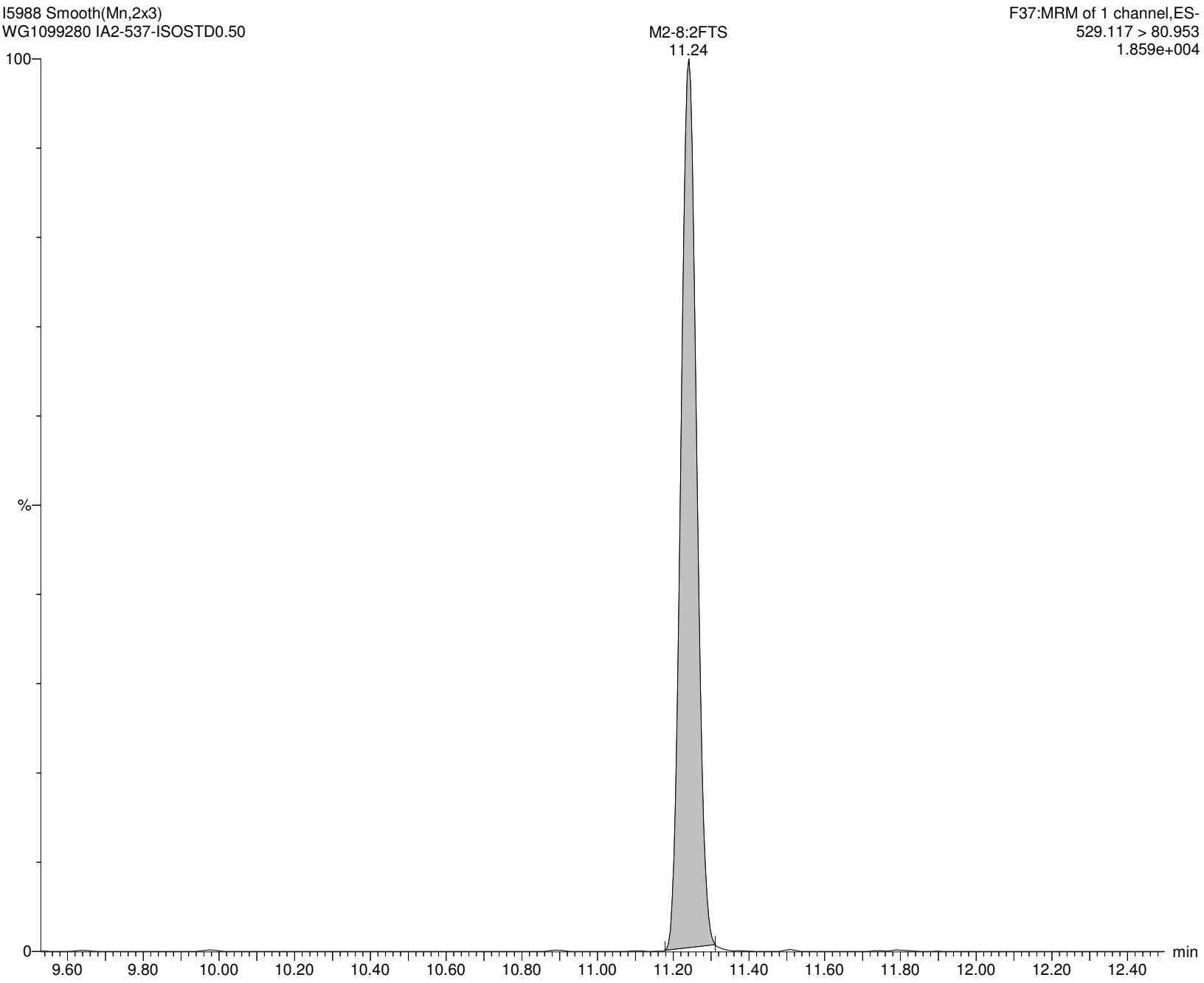
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Date: 21-Mar-2018
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Vial: 2:A,1
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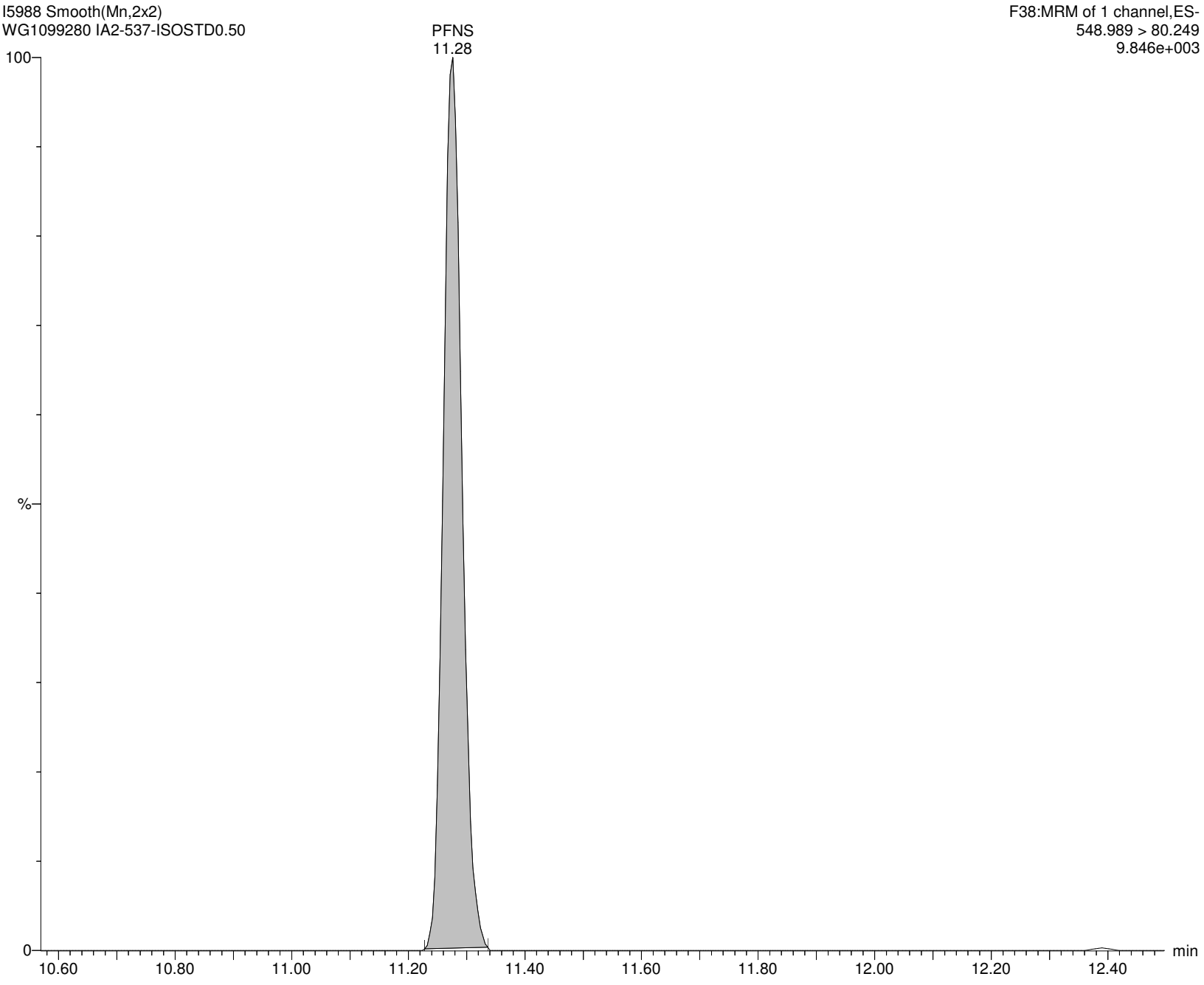

all concentration units in (ng/mL)

Alpha Analytical Inc.
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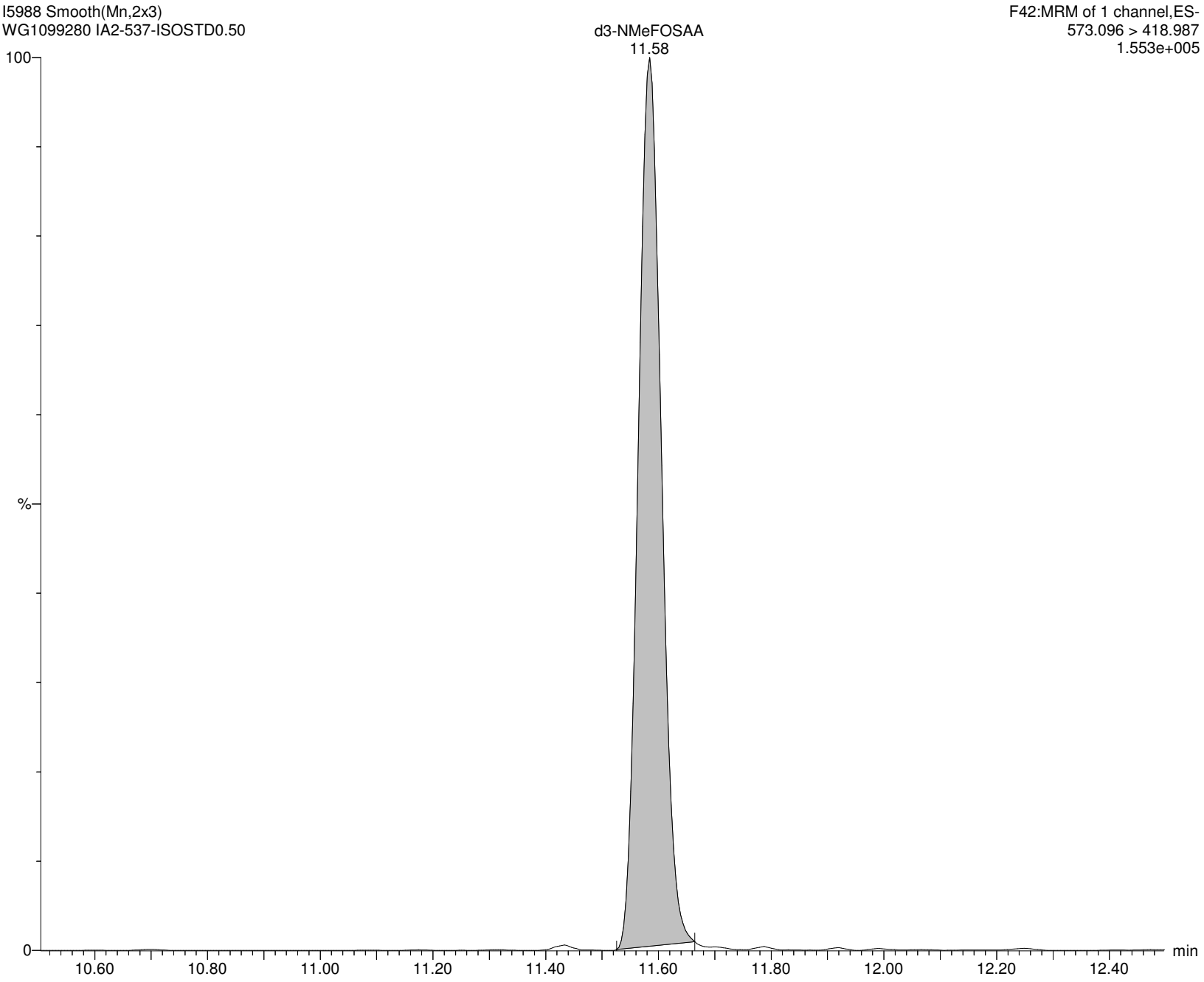
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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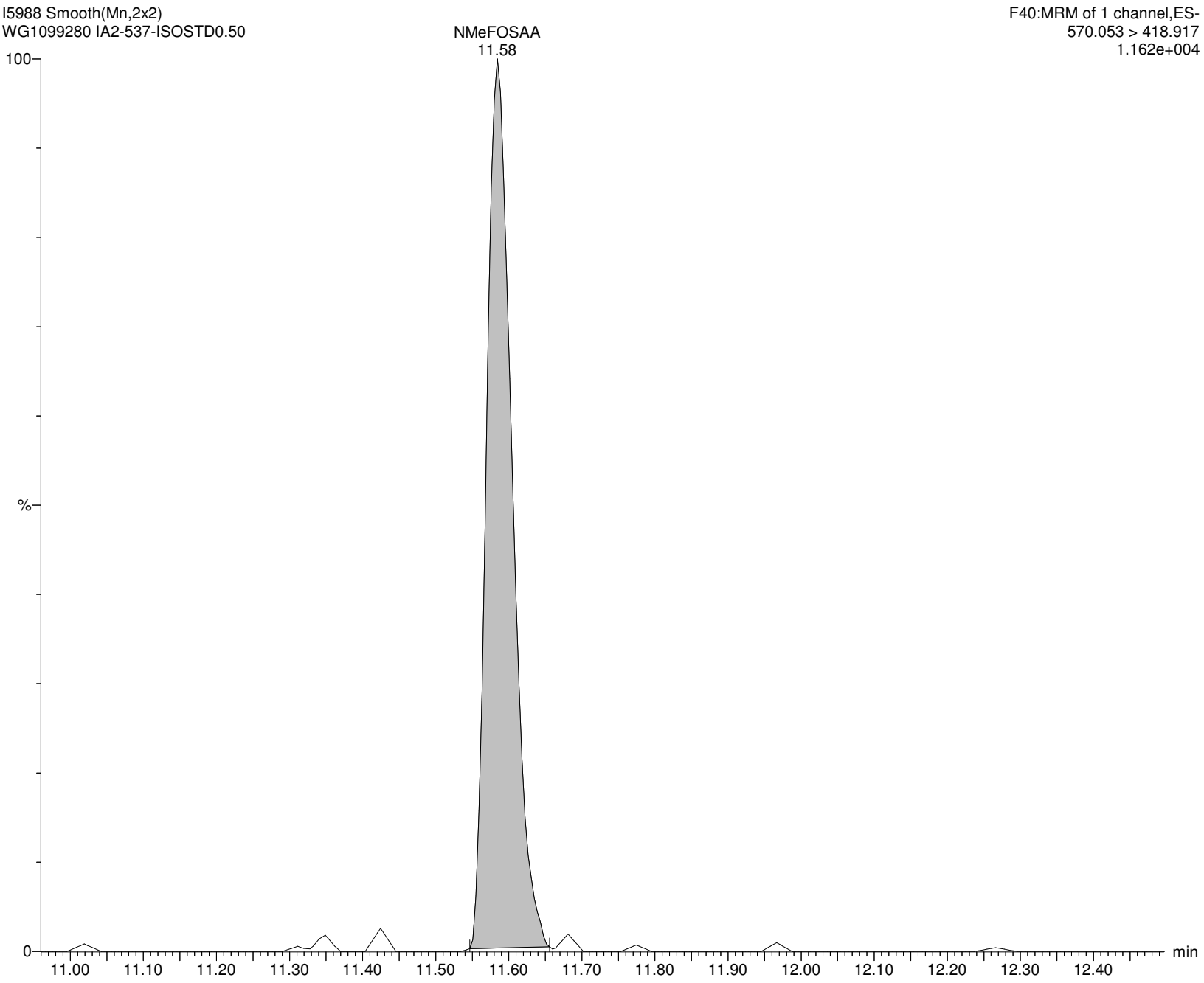

all concentration units in (ng/mL)

Alpha Analytical Inc.
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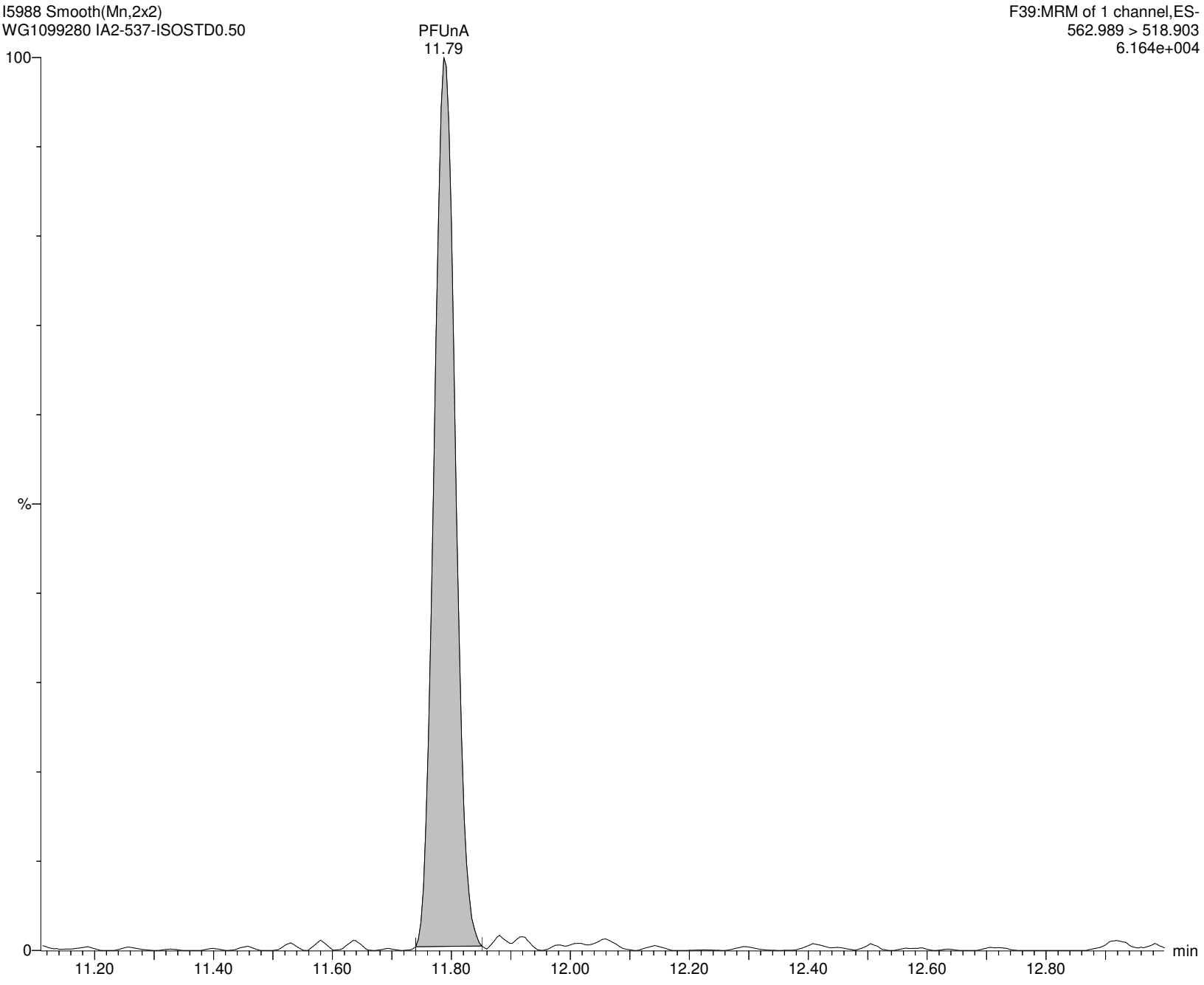

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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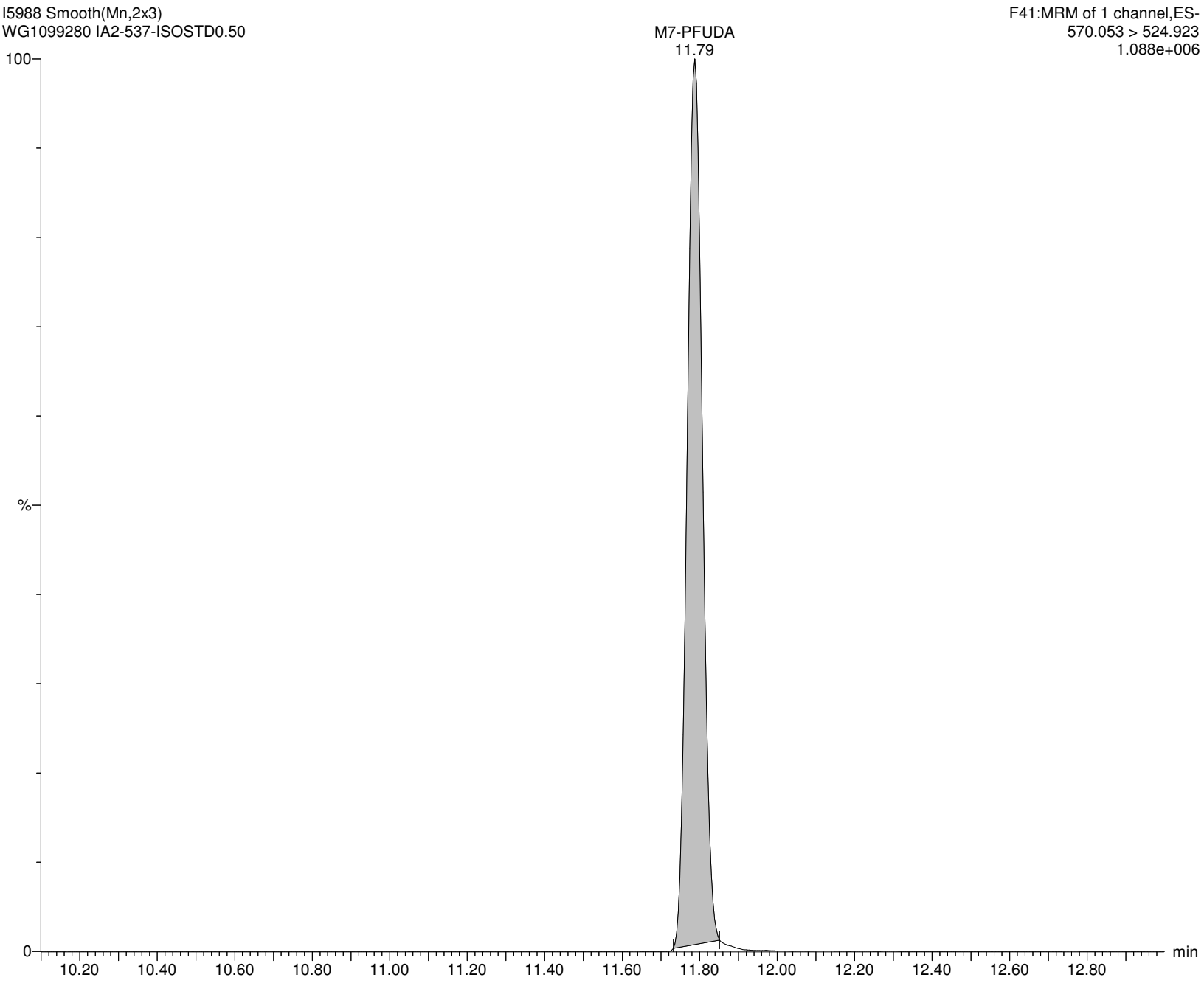
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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Vial: 2:A,1
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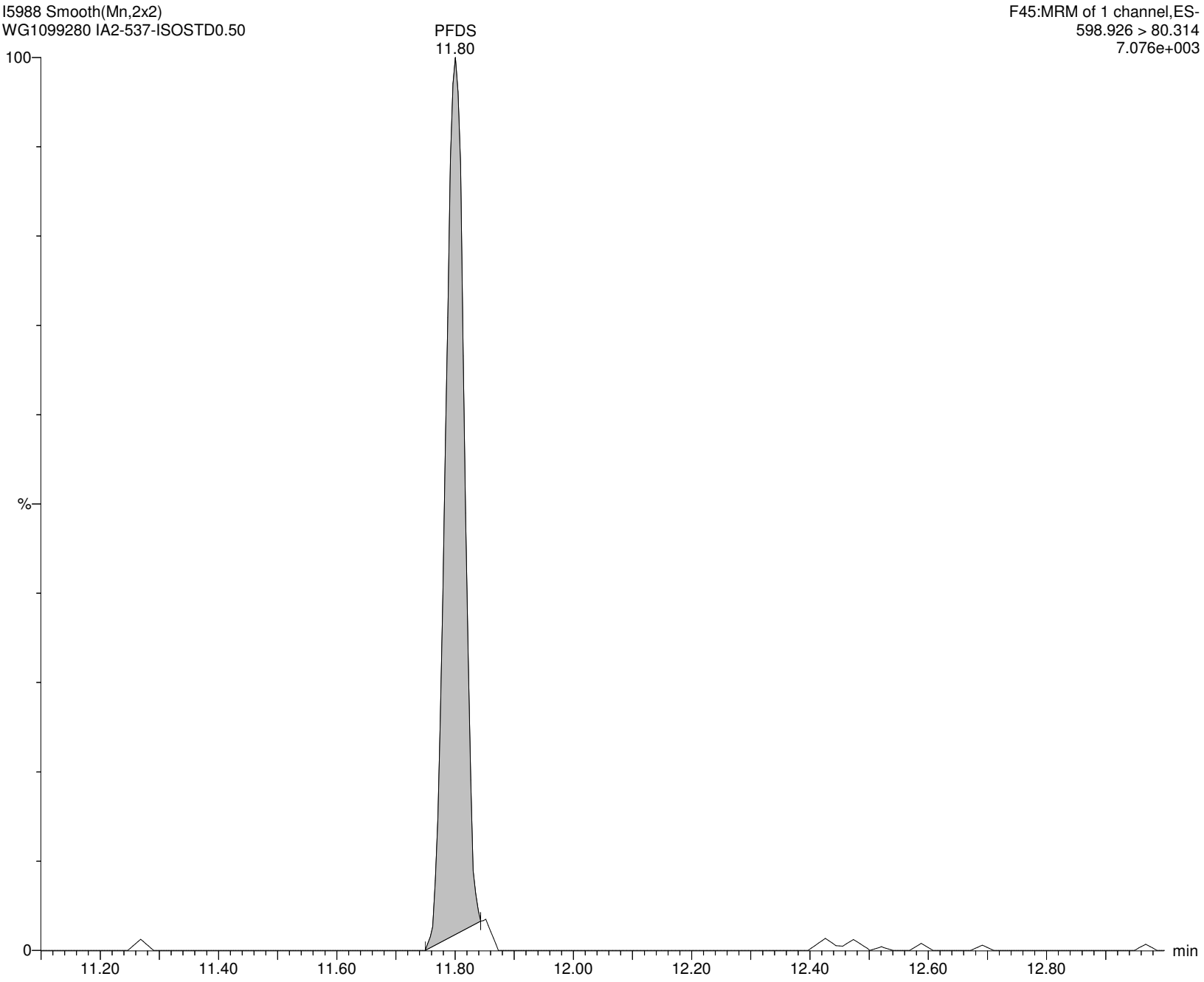

all concentration units in (ng/mL)

Alpha Analytical Inc.
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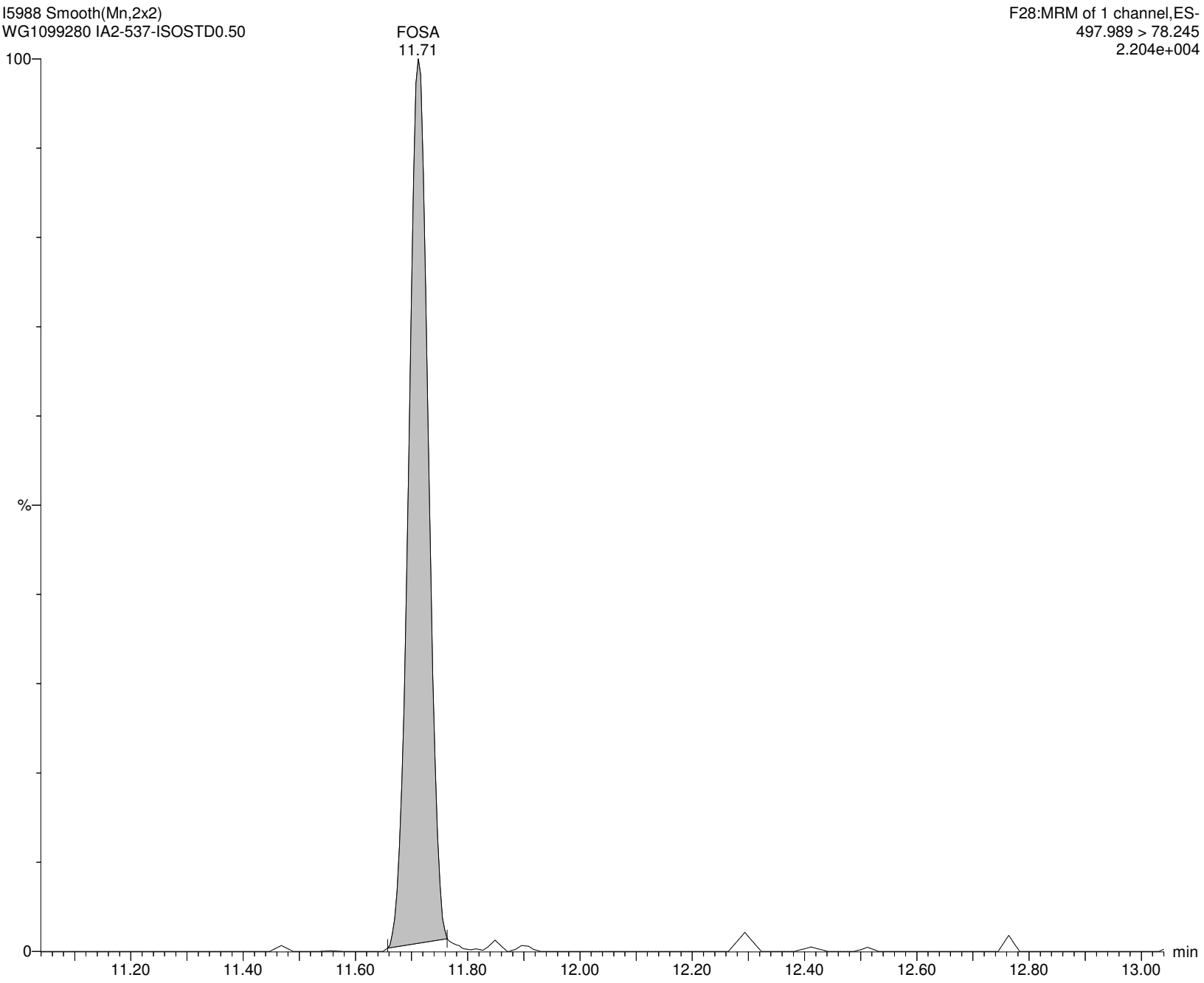
FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:45 Eastern Daylight Time

Name: I5988
ID: IA2-537-ISOSTD0.50
Date: 21-Mar-2018
Time: 15:52:14
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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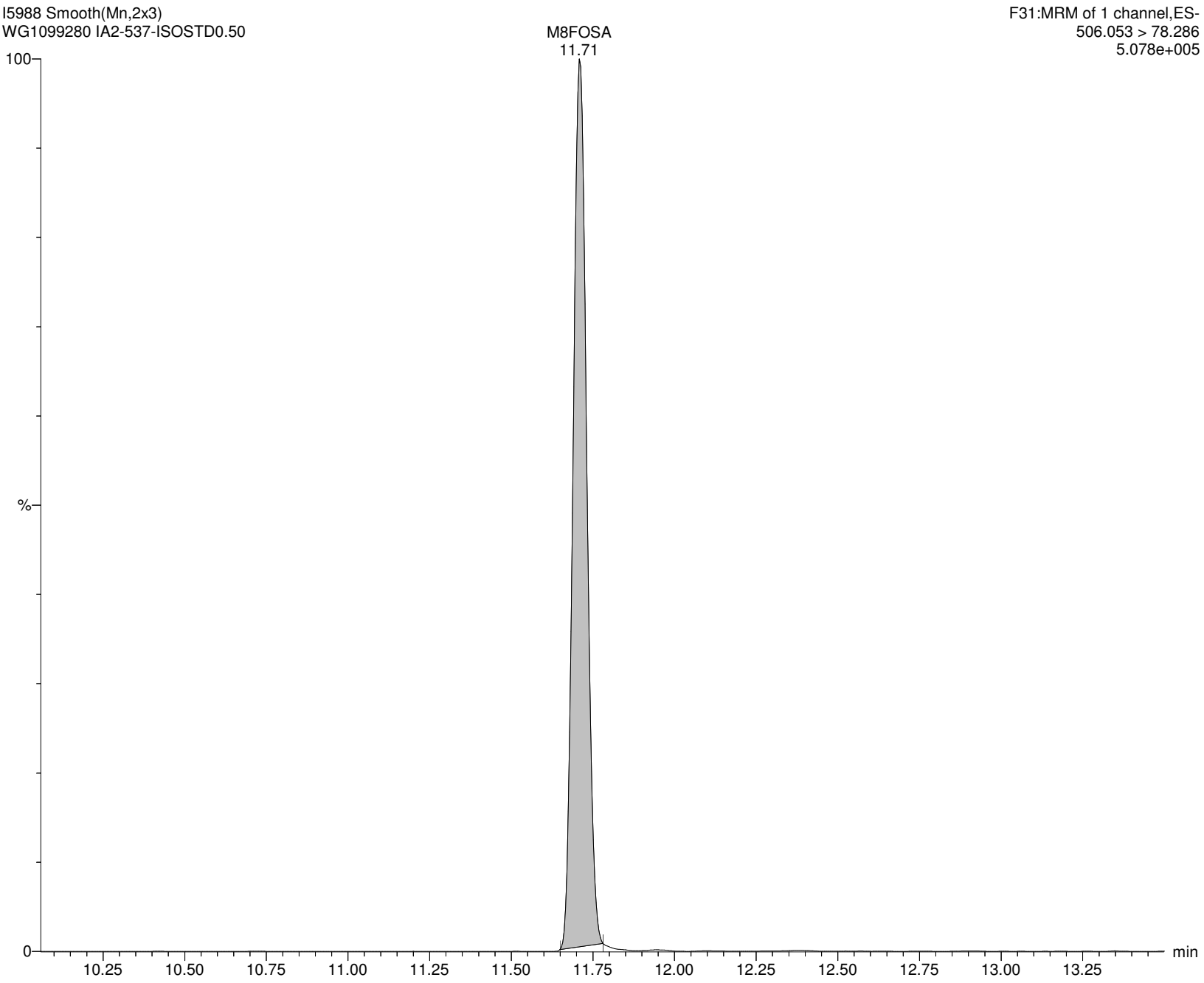

all concentration units in (ng/mL)

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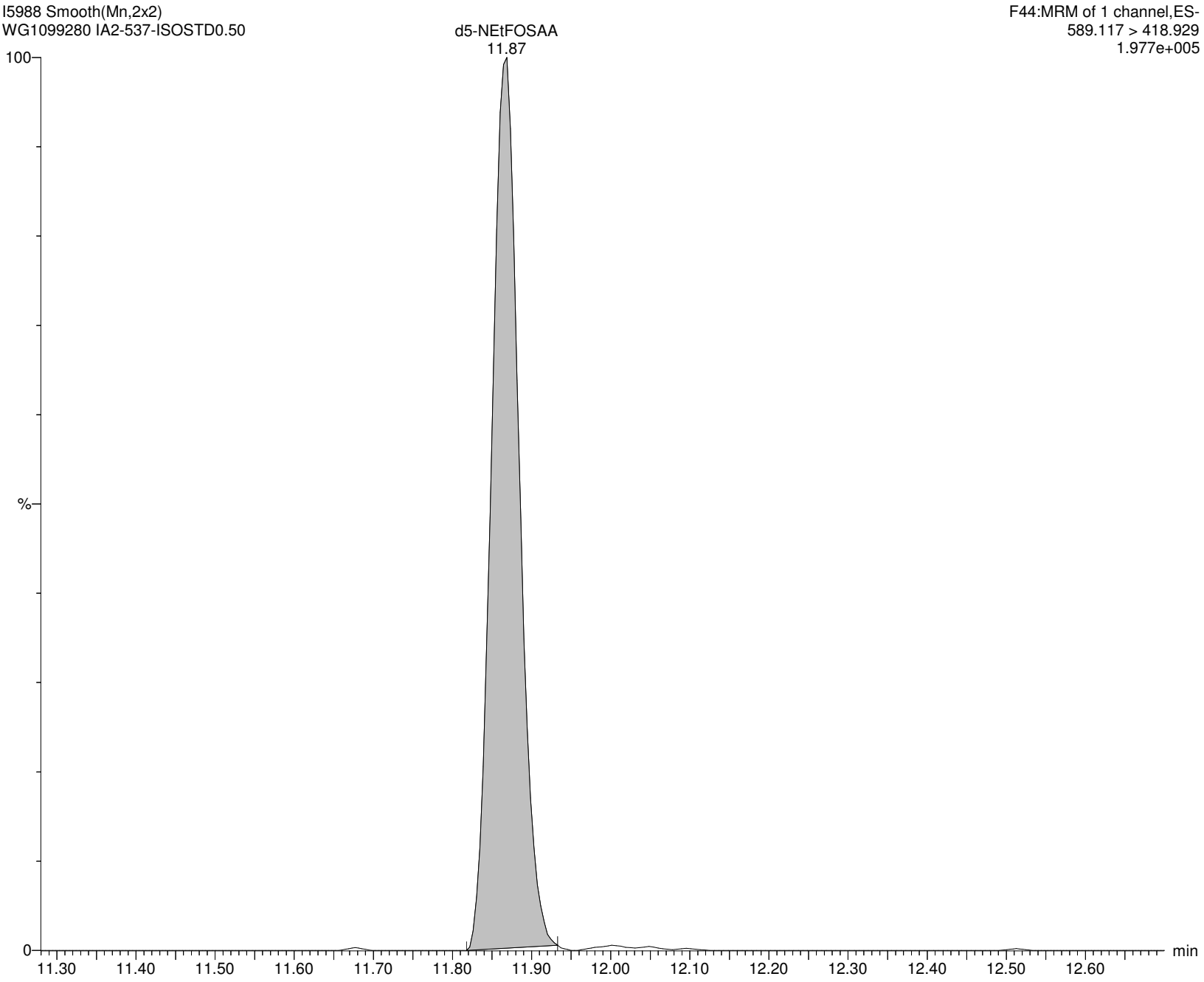

all concentration units in (ng/mL)

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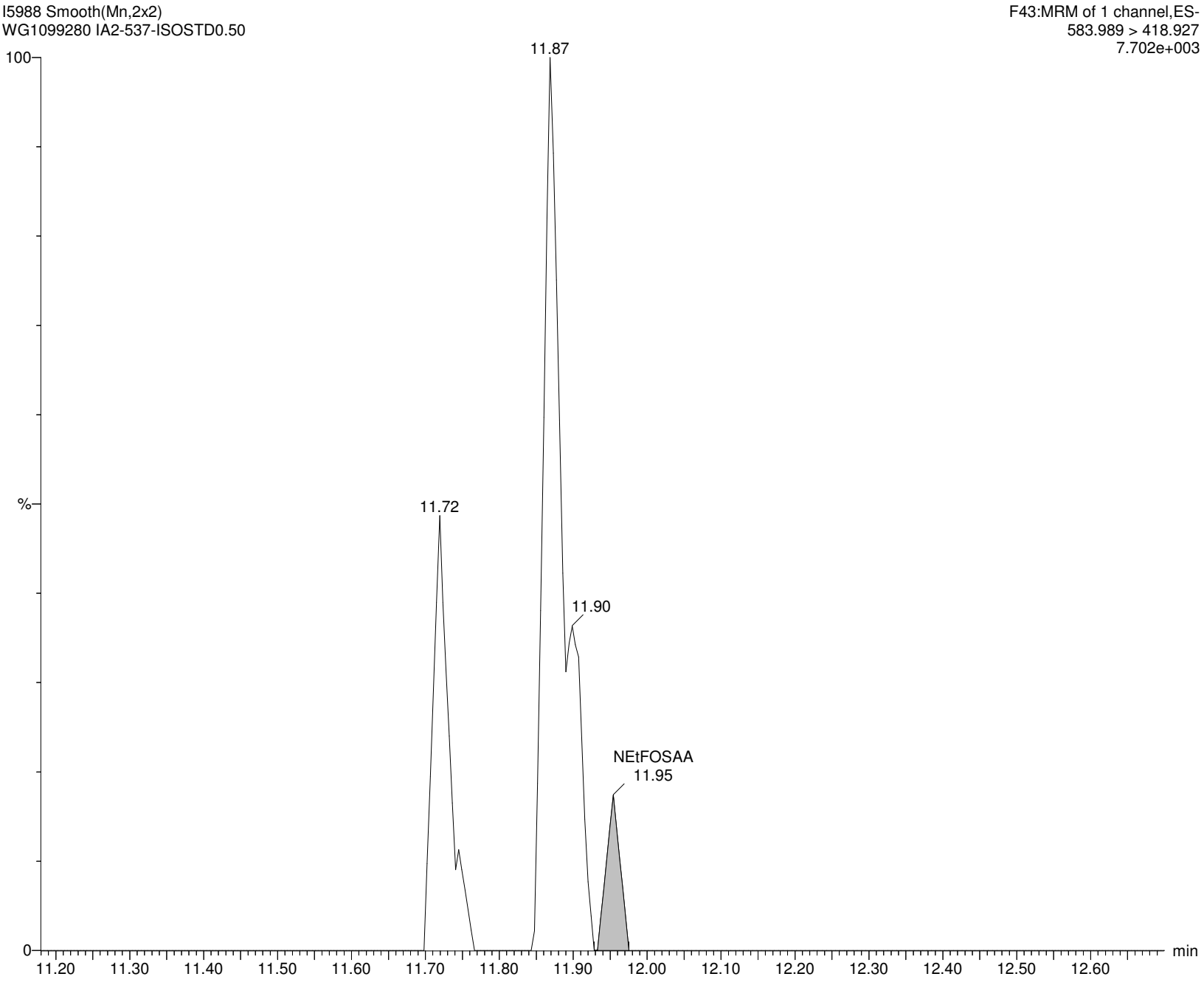

all concentration units in (ng/mL)

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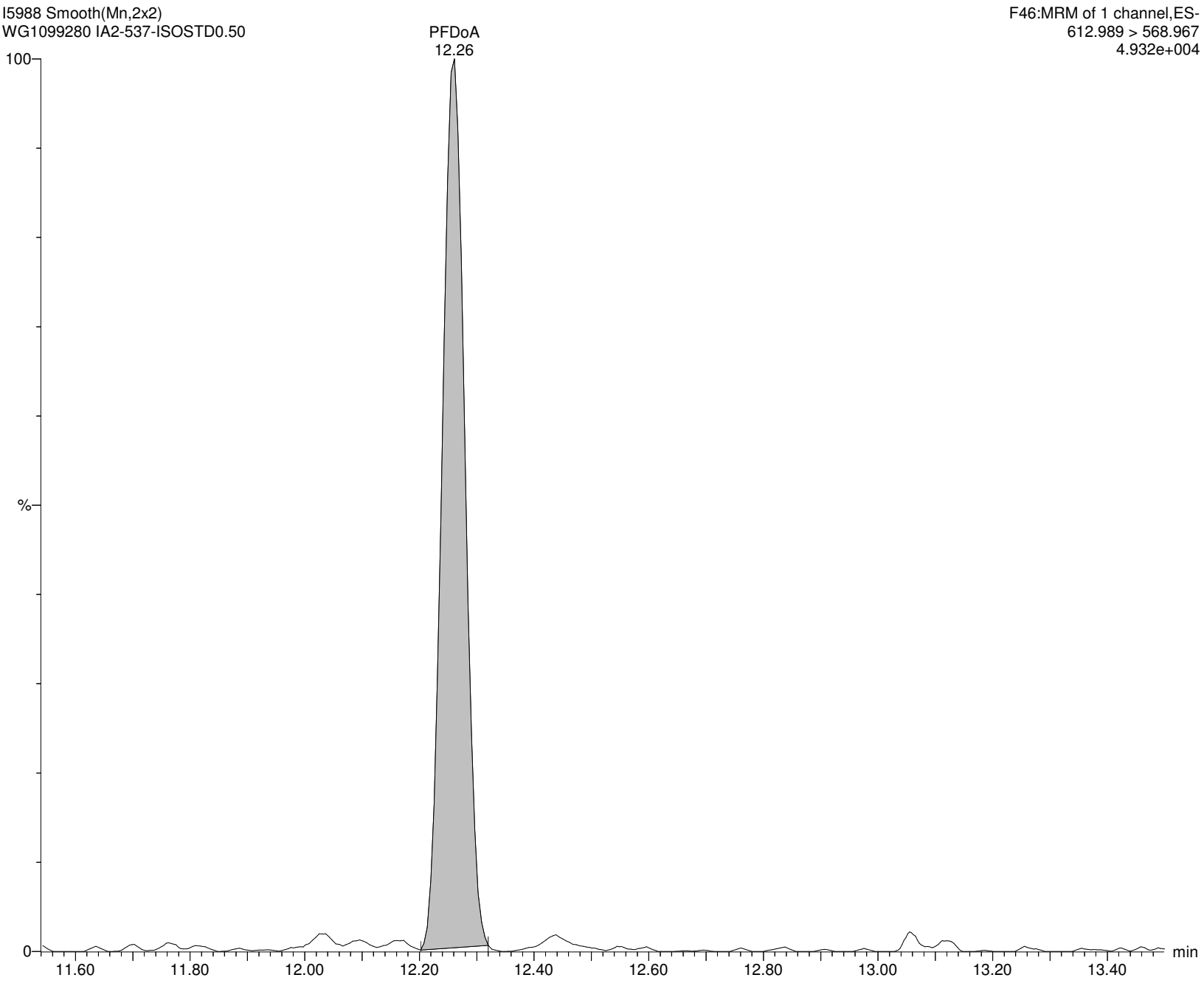

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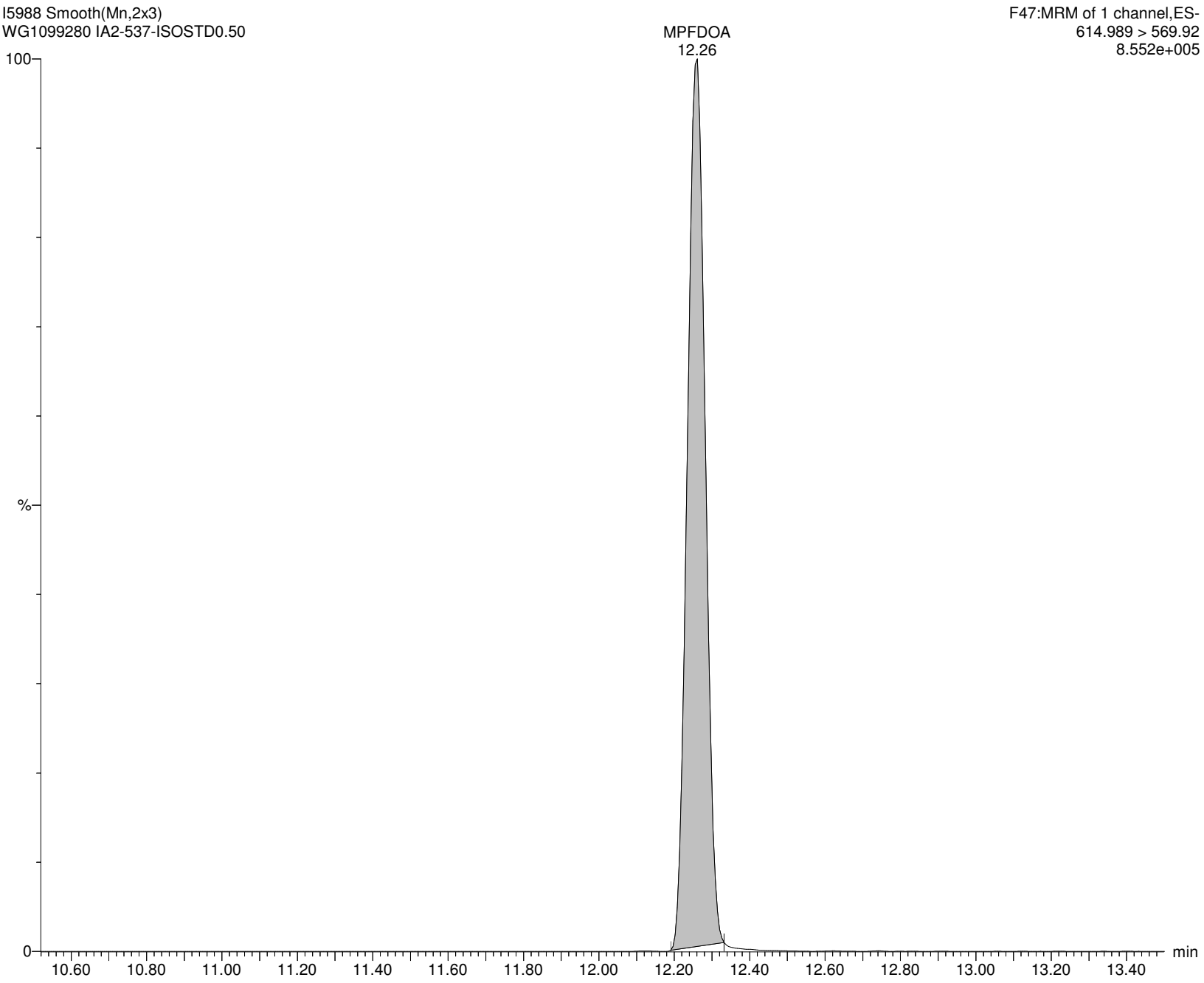

all concentration units in (ng/mL)

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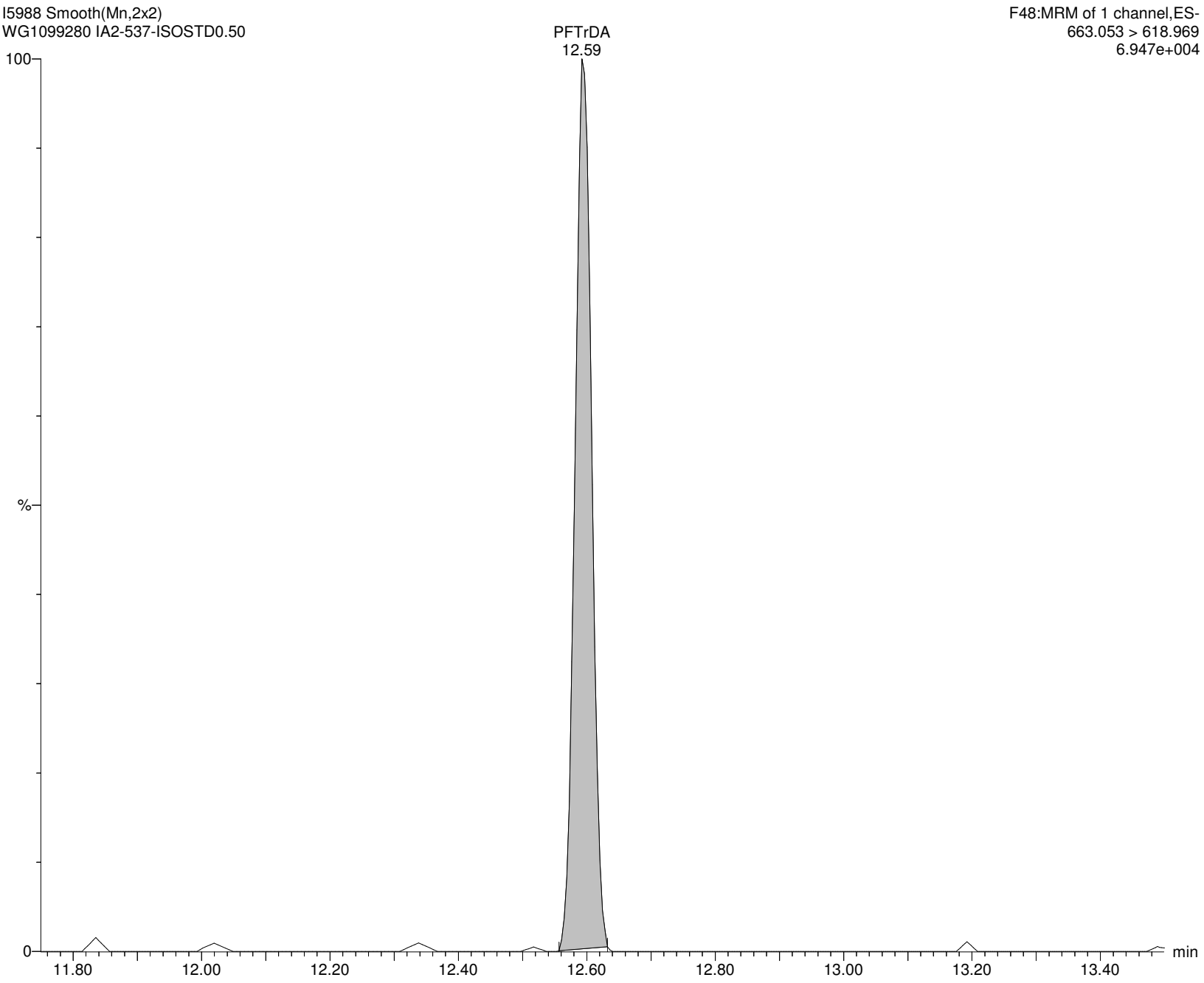

all concentration units in (ng/mL)

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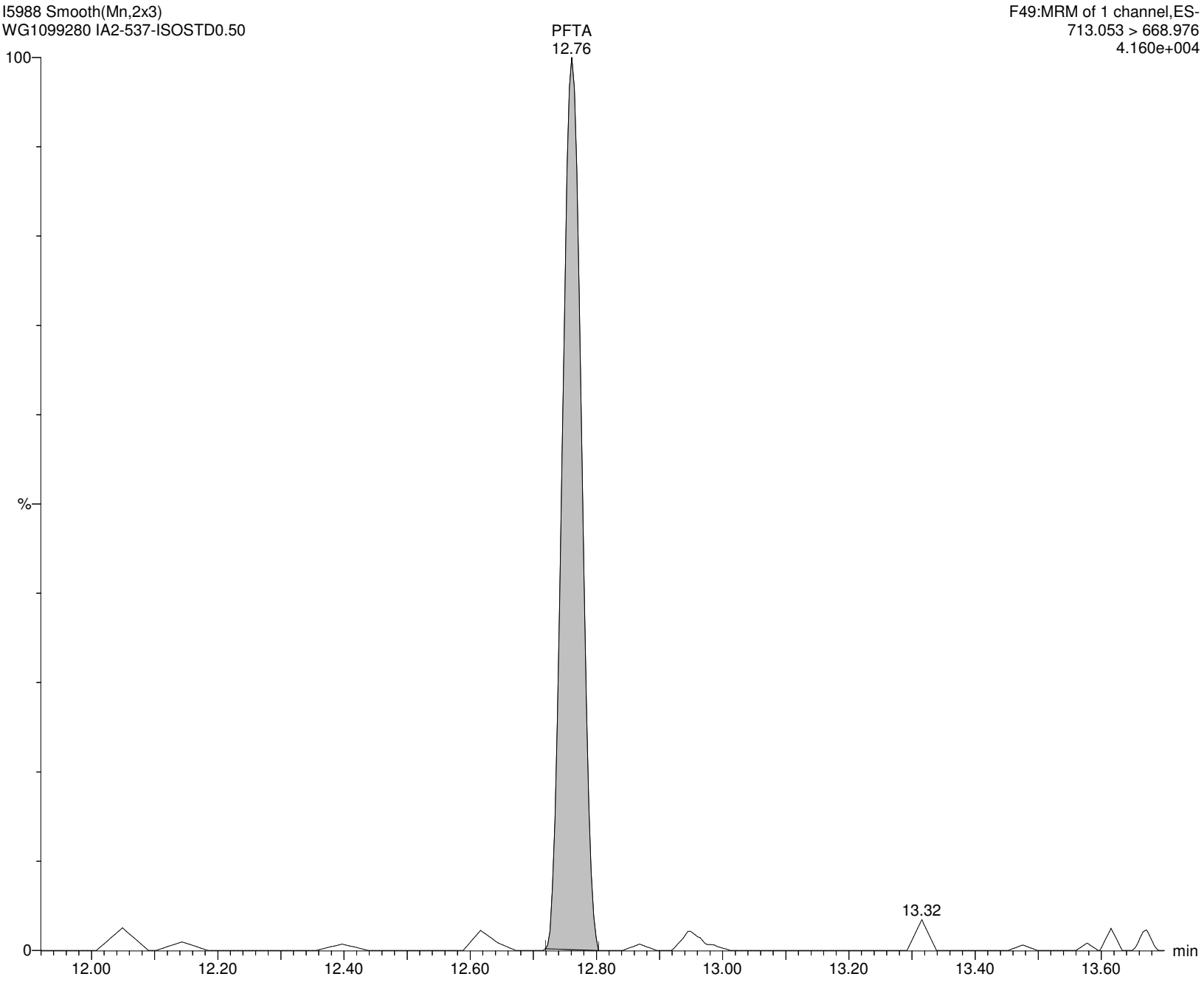

all concentration units in (ng/mL)

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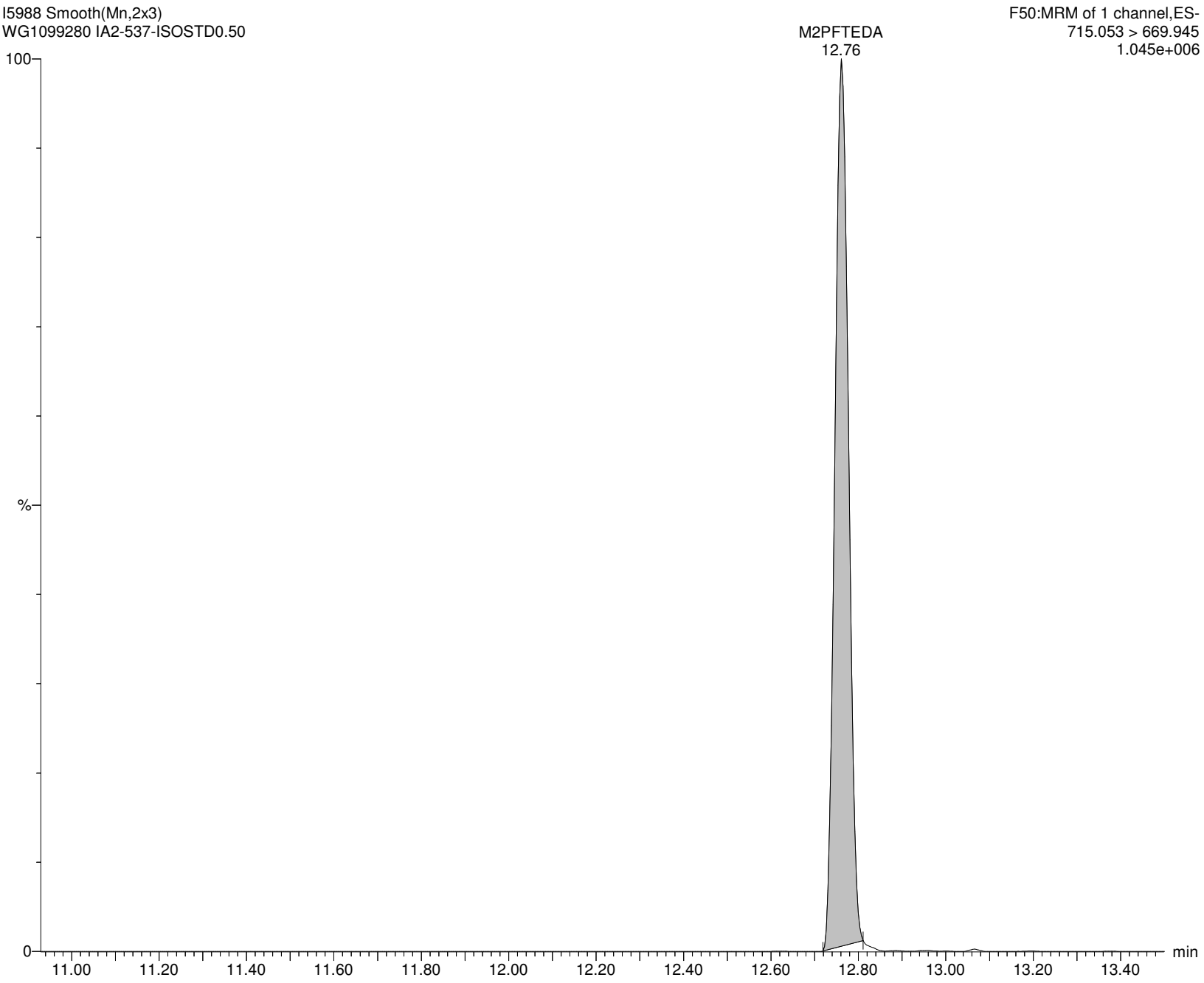

all concentration units in (ng/mL)

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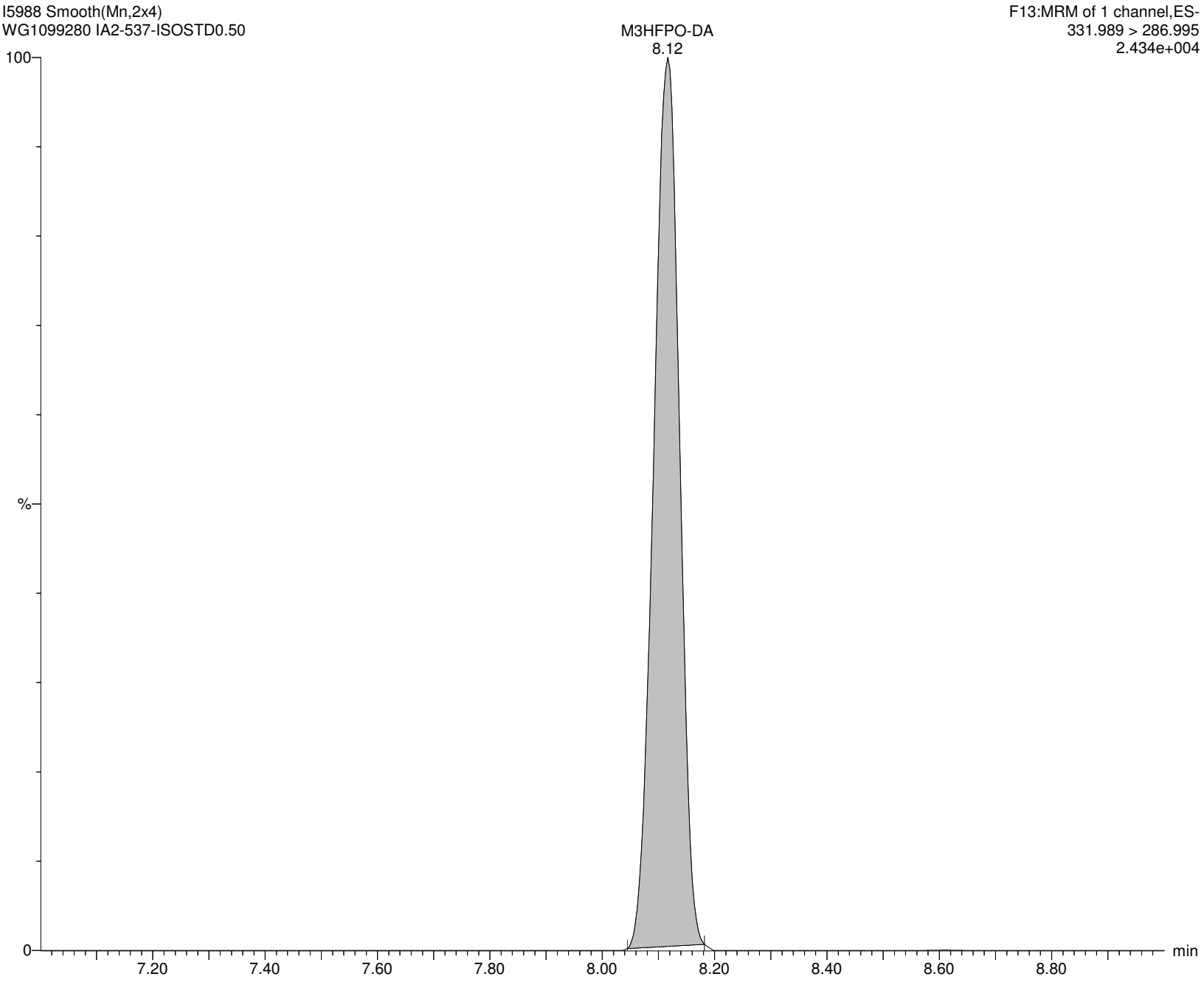

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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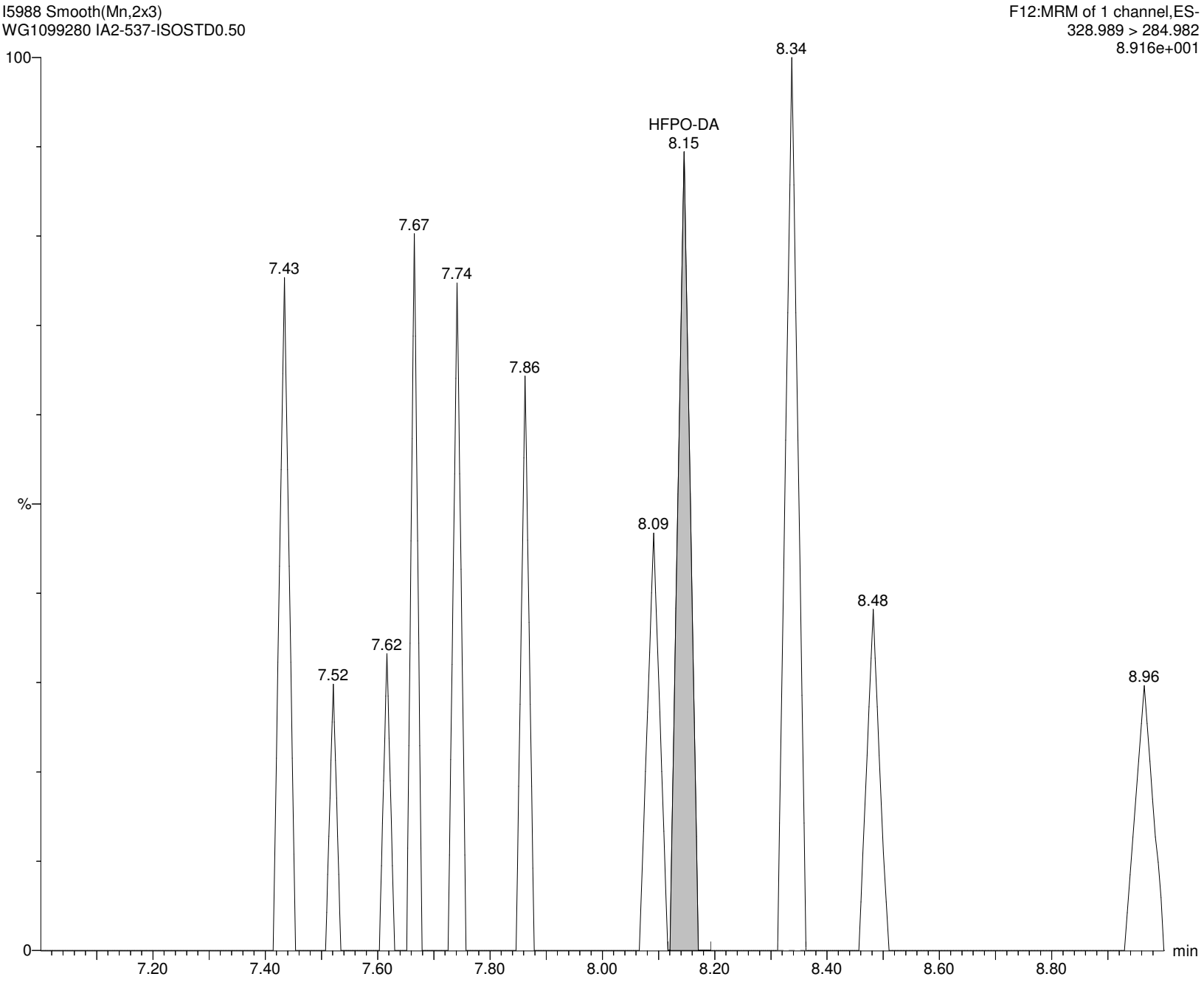

all concentration units in (ng/mL)

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Vial: 2:A,1
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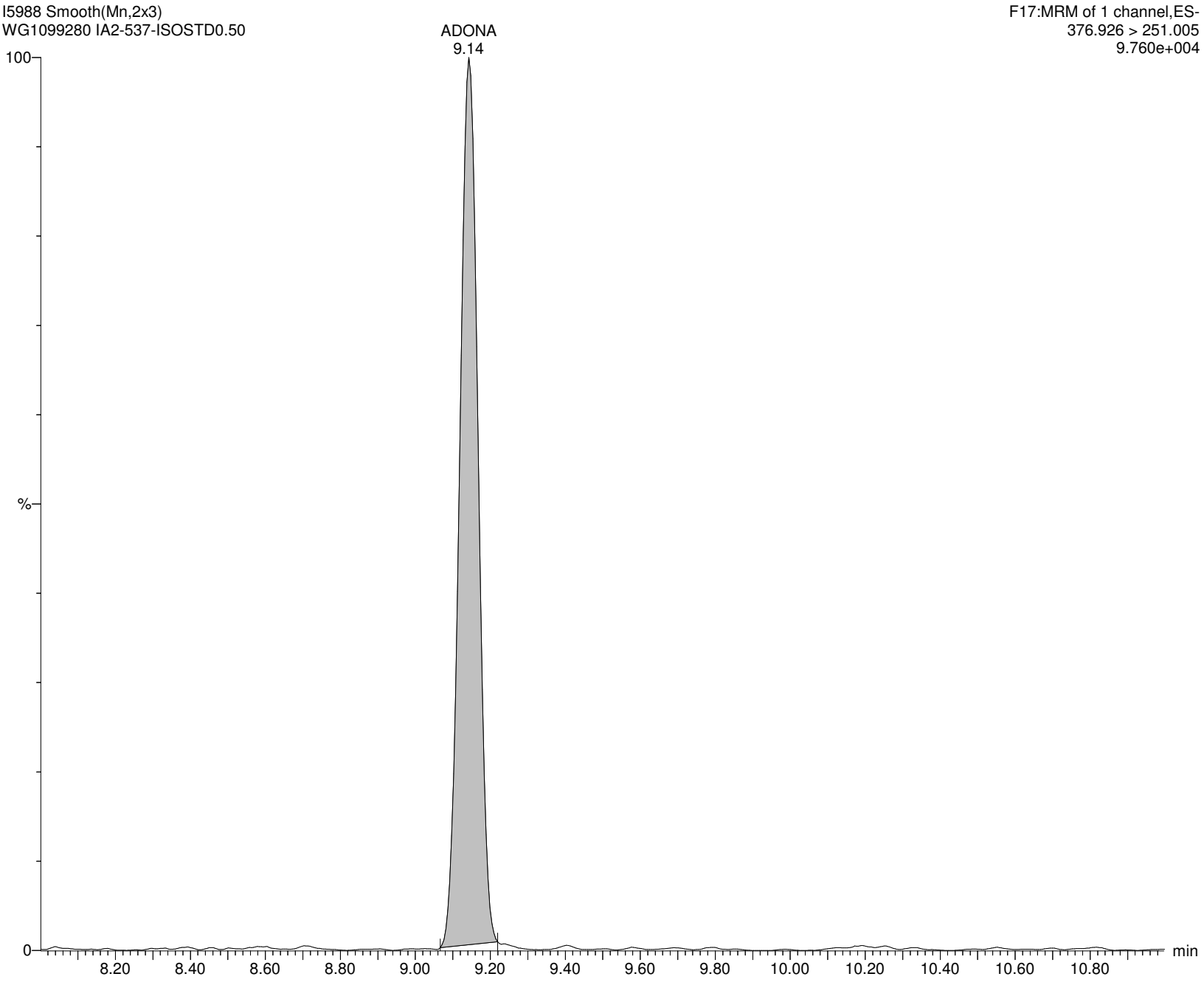

all concentration units in (ng/mL)

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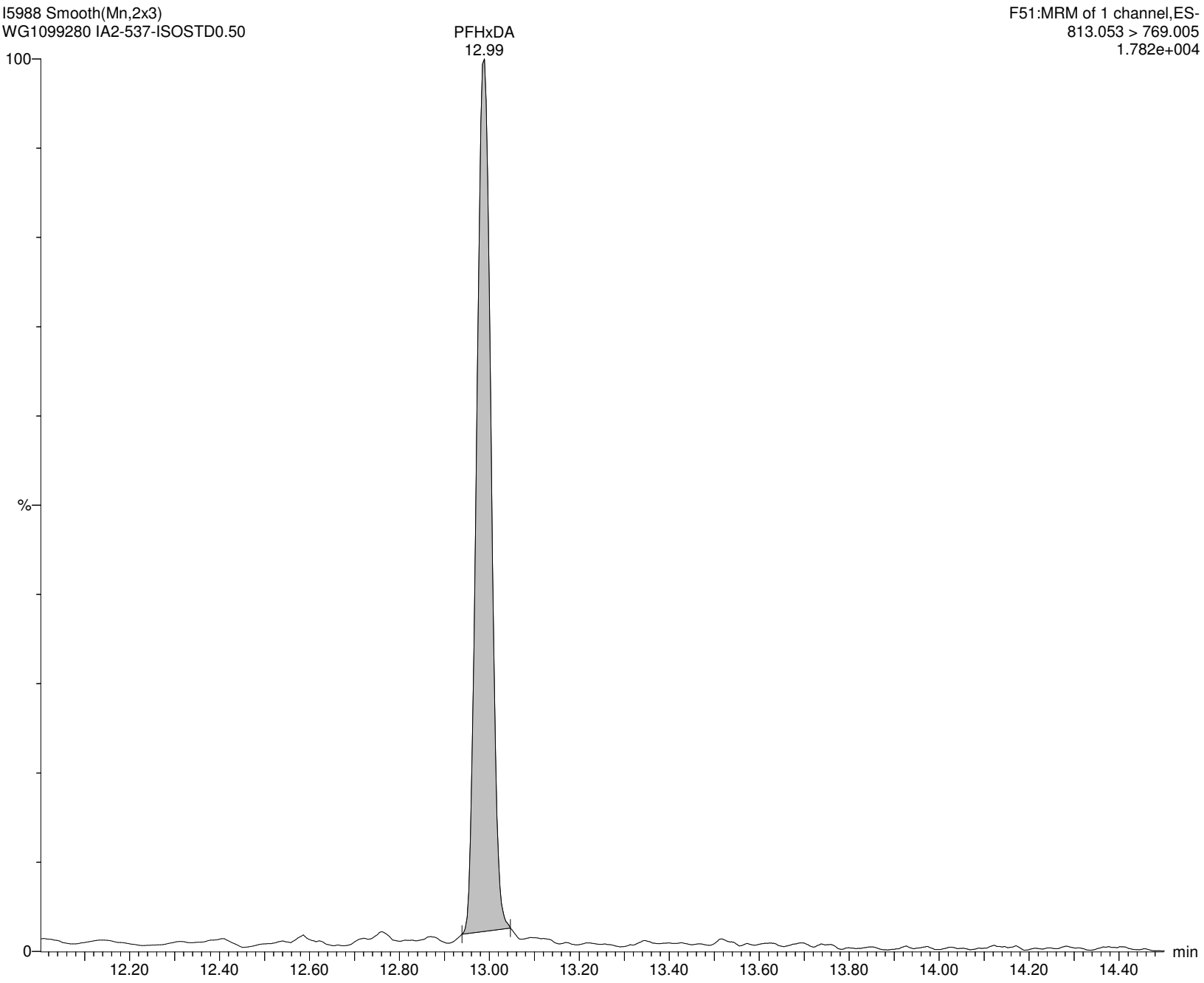

all concentration units in (ng/mL)

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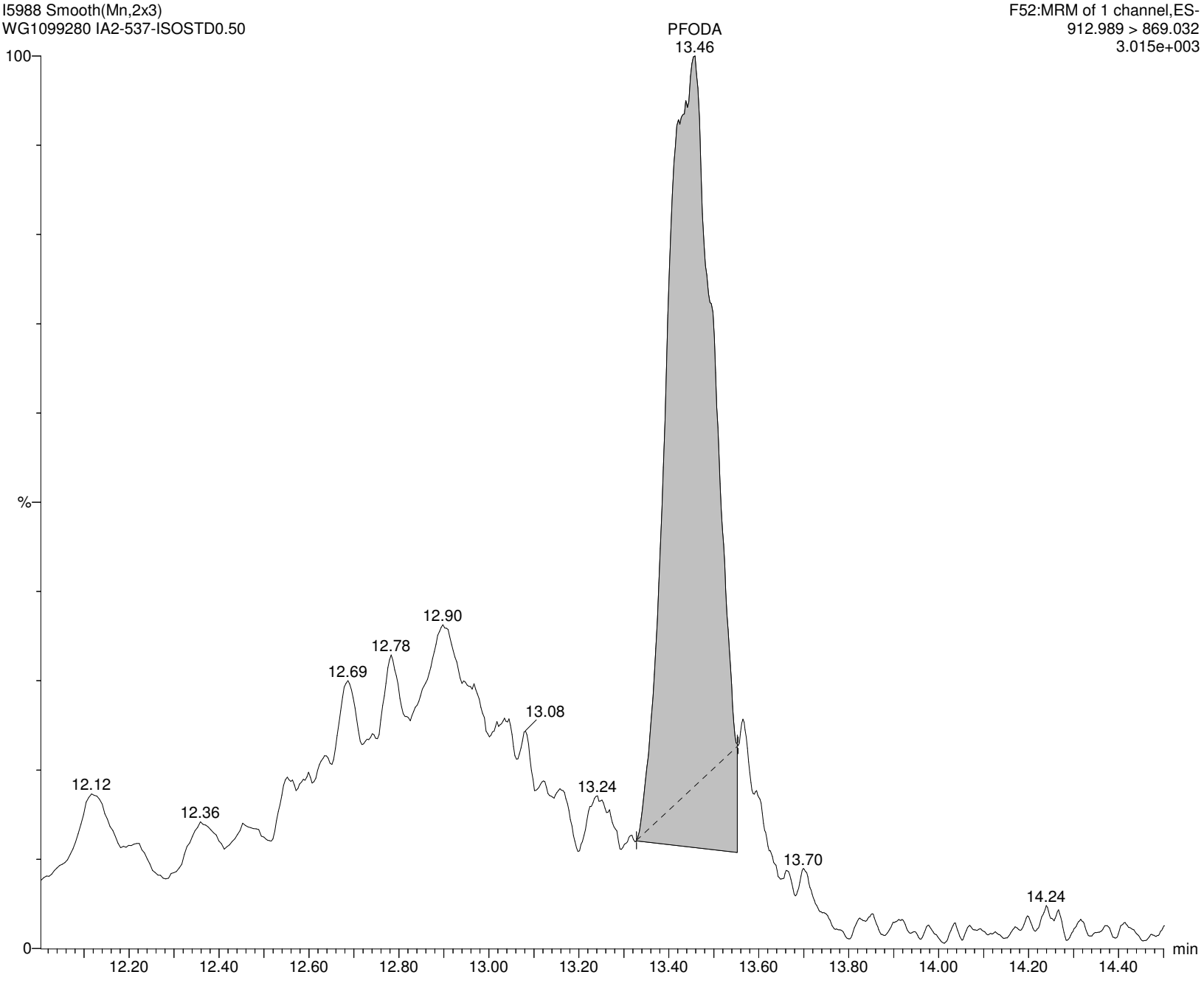

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:46 Eastern Daylight Time

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ID: IA2-537-ISOSTD01.0
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Date: 21-Mar-2018
Time: 16:08:46
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	3943		0.929		na	92.9
2	M3PFBA	INT STD	2.26	215.926 > 172.122	52028		10.425		na	104.3
3	MPFBA	INT STD	2.26	216.926 > 172.137	57681		9.921		na	99.2
4	PFPeA	2706-90-3	5.67	262.926 > 219.002	4749		0.993		na	99.3
5	M5PFPEA	INT STD	5.67	TIC	60795		10.145		na	101.4
6	PFBS	375-73-5	6.41	298.989 > 80.295	885		0.859		na	97.1
7	M3PFBS	INT STD	6.41	301.989 > 80.254	10472		9.524		na	95.2
8	4:2FTS	757124-72-4	7.60	326.926 > 306.957	446		1.072		na	114.7
9	M2-4:2FTS	INT STD	7.60	328.989 > 80.973	1246		8.782		na	87.8
10	PFHxA	307-24-4	7.67	312.989 > 269.028	5924		1.014		na	101.4
11	M5PFHxA	INT STD	7.67	317.989 > 273.045	64638		10.211		na	102.1
12	PFPeS	2706-91-4	8.00	348.926 > 80.251	775		0.811		na	86.2
13	PFHpA	375-85-9	8.95	362.926 > 319.014	6036		0.908		na	90.8
14	M4PFHpA	INT STD	8.95	366.926 > 321.979	72325		10.060		na	100.6
15	br-PFHxS	355-46-4	8.88	398.926 > 80.295	128		0.134		na	70.6
16	L-PFHxS	355-46-4	9.12	398.926 > 80.295	764		0.818		na	101.0
17	PFHxS	355-46-4		398.926 > 80.295	892		0.952		na	
18	M3PFHxS	INT STD	9.12	401.926 > 80.317	9890		9.778		na	97.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.89	412.989 > 368.9	6592		1.004		na	100.4
21	M2PFOA	INT STD	9.89	415.032 > 369.968	65766		10.627		na	106.3
22	PFOA	335-67-1		412.989 > 368.9	6592		1.004		na	
23	M8PFOA	INT STD	9.89	420.989 > 375.979	63357		9.919		na	99.2
24	6:2FTS	27619-97-2	9.85	426.989 > 406.921	348		0.800		na	84.3
25	M2-6:2FTS	INT STD	9.85	428.989 > 408.917	4399		8.216		na	82.2
26	PFHpS	375-92-8	9.98	448.926 > 80.257	440		0.781		na	82.2
27	PFNA	375-95-1	10.62	462.989 > 418.931	4950		0.966		na	96.6
28	M9PFNA	INT STD	10.62	472.053 > 426.947	61490		10.244		na	102.4
29	br-PFOS	1763-23-1	10.49	498.989 > 80.294	193		0.171		na	85.7
30	L-PFOS	1763-23-1	10.67	498.989 > 80.294	531		0.666		na	84.3
31	PFOS	1763-23-1		498.989 > 80.294	724		0.837		na	
32	M4PFOS	INT STD	10.67	503.032 > 80.306	6699		11.048		na	110.5
33	M8PFOS	INT STD	10.67	507.053 > 80.294	8143		9.955		na	99.5
34	PFDA	335-76-2	11.25	513.053 > 468.906	4492		0.958		na	95.8
35	M2PFDA	INT STD	11.25	515.053 > 469.934	46689		11.136		na	111.4
36	M6PFDA	INT STD	11.25	519.053 > 473.931	55180		9.788		na	97.9
37	8:2FTS	39108-34-4	11.24	526.989 > 506.946	314		1.179		na	122.9
38	M2-8:2FTS	INT STD	11.24	529.117 > 80.953	782		9.463		na	94.6
39	PFNS	68259-12-1	11.28	548.989 > 80.249	541		0.839		na	87.4

all concentration units in (ng/mL)

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Name: I5989
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Description: WG1099280
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User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.58	573.096 > 418.987	6882		9.547		na	95.5
41	NMeFOSAA	2355-31-9	11.59	570.053 > 418.917	663		0.917		na	91.7
42	PFUnA	2058-94-8	11.79	562.989 > 518.903	4506		0.872		na	87.2
43	M7-PFUDA	INT STD	11.79	570.053 > 524.923	50207		10.884		na	108.8
44	PFDS	335-77-3	11.80	598.926 > 80.314	596		0.718		na	74.4
45	FOSA	754-91-6	11.71	497.989 > 78.245	1917		0.983		na	98.3
46	M8FOSA	INT STD	11.71	506.053 > 78.286	23881		9.601		na	96.0
47	d5-NEtFOSAA	INT STD	11.87	589.117 > 418.929	6494		9.508		na	95.1
48	NEtFOSAA	2991-50-6	11.88	583.989 > 418.927	899		1.509		na	150.9
49	PFDoA	307-55-1	12.26	612.989 > 568.967	4540		0.973		na	97.3
50	MPFDOA	INT STD	12.26	614.989 > 569.92	47642		9.981		na	99.8
51	PFTrDA	72629-94-8	12.59	663.053 > 618.969	3567		0.810		na	81.0
52	PFTA	376-06-7	12.76	713.053 > 668.976	2781		1.075		na	107.5
53	M2PFTEDA	INT STD	12.76	715.053 > 669.945	30329		8.083		na	80.8
54	M3HFPO-DA	INT STD	8.11	331.989 > 286.995	1276		102.684		na	51.3
55	HFPO-DA	13252-13-6	8.11	328.989 > 284.982	50		23.117		na	115.6
56	ADONA	958445-44-8	9.13	376.926 > 251.005	11515		1.219		na	128.8
57	PFHxDA		12.98	813.053 > 769.005	1290		1.102		na	110.2
58	PFODA		13.39	912.989 > 869.032	630		1.141		na	114.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:46 Eastern Daylight Time

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Name: I5989
ID: IA2-537-ISOSTD01.0
Date: 21-Mar-2018
Time: 16:08:46
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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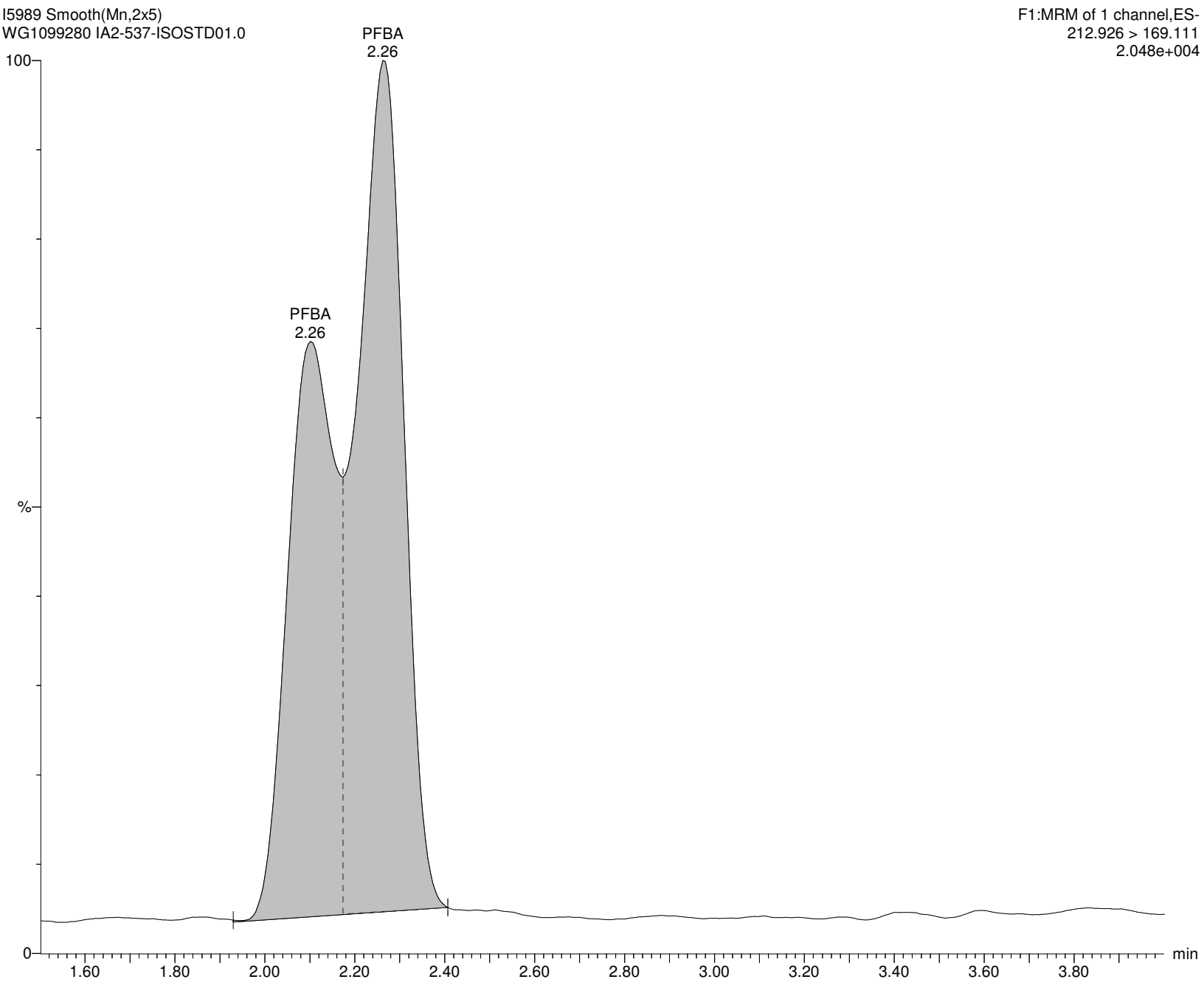

all concentration units in (ng/mL)

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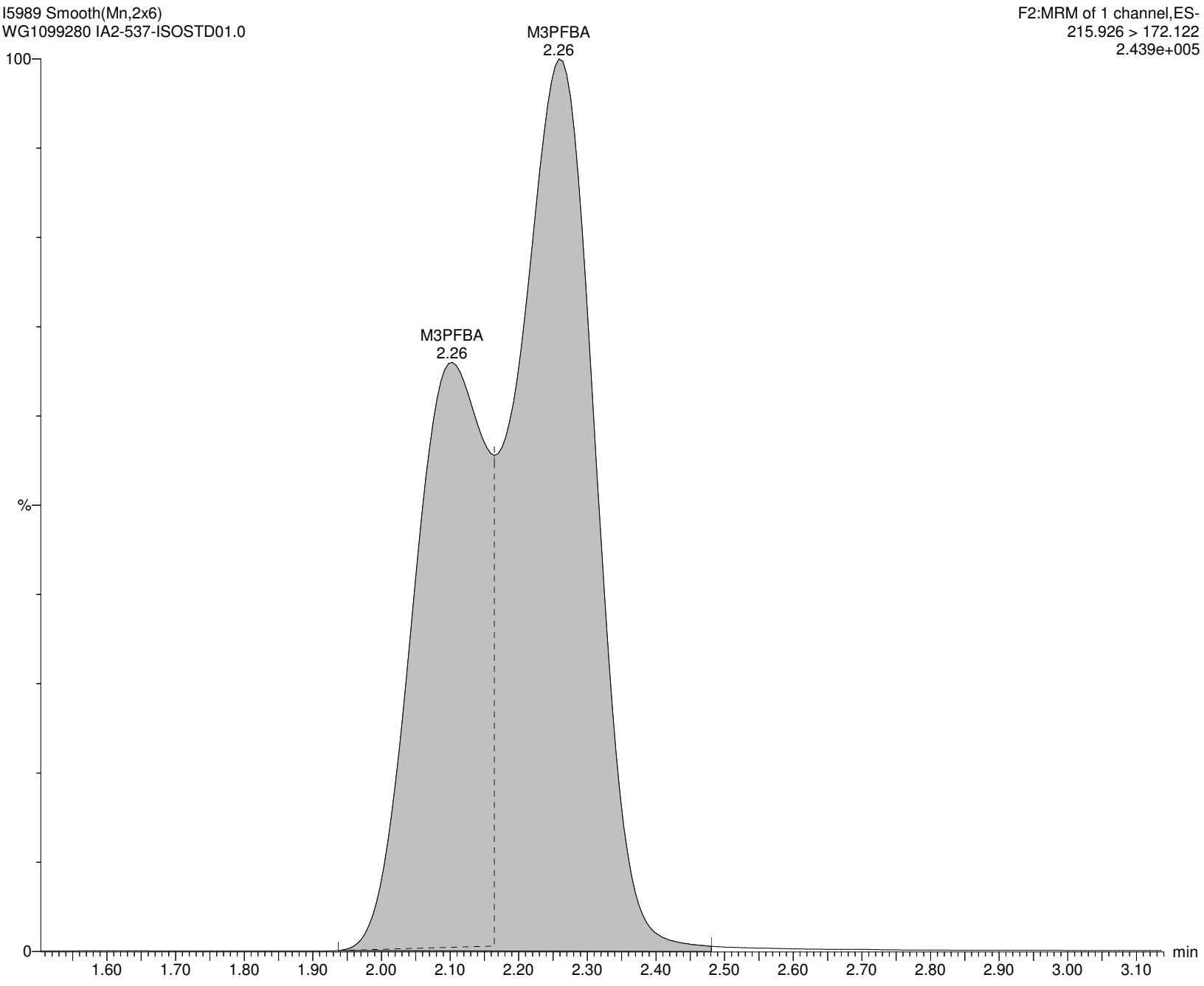

all concentration units in (ng/mL)

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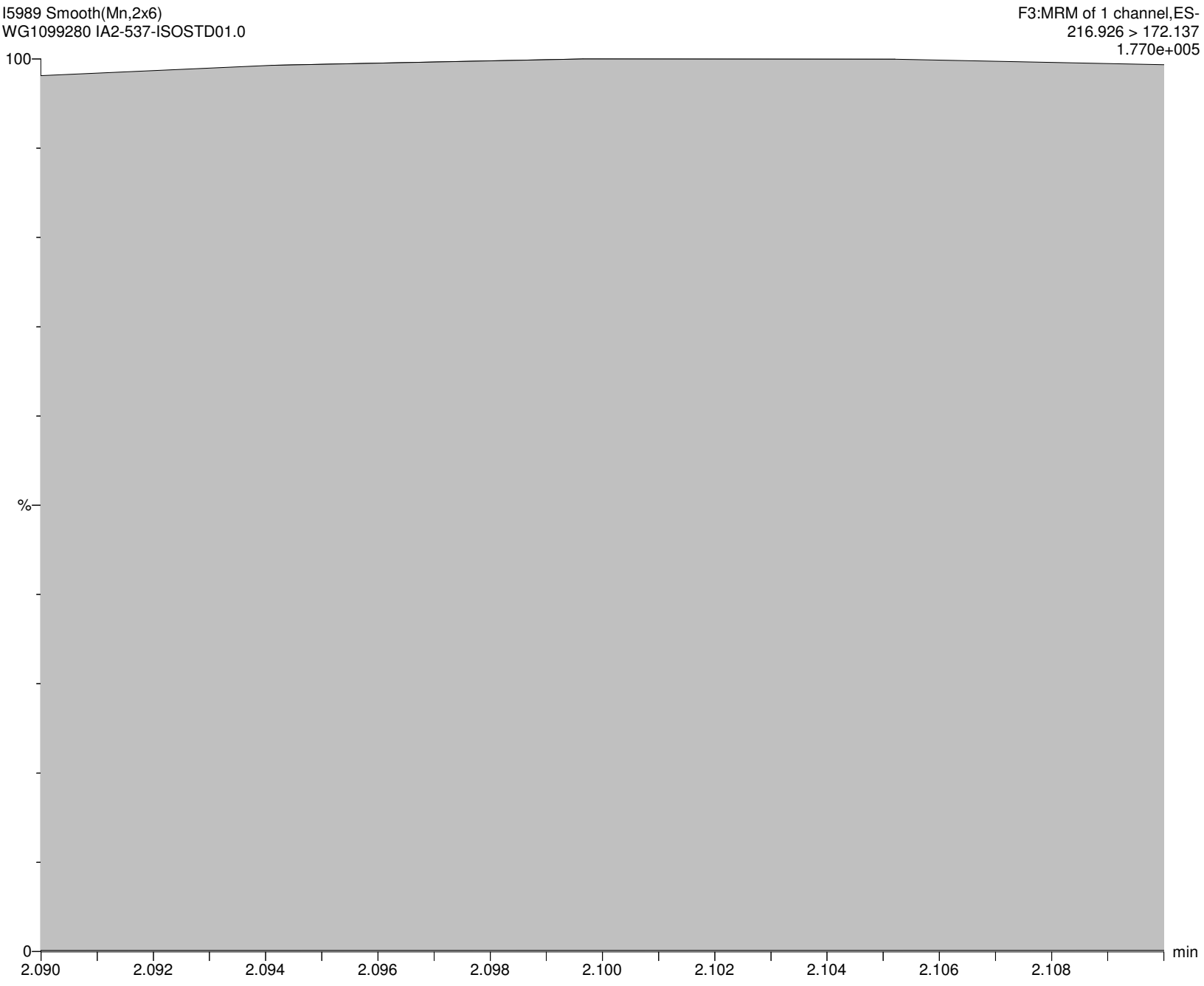

all concentration units in (ng/mL)

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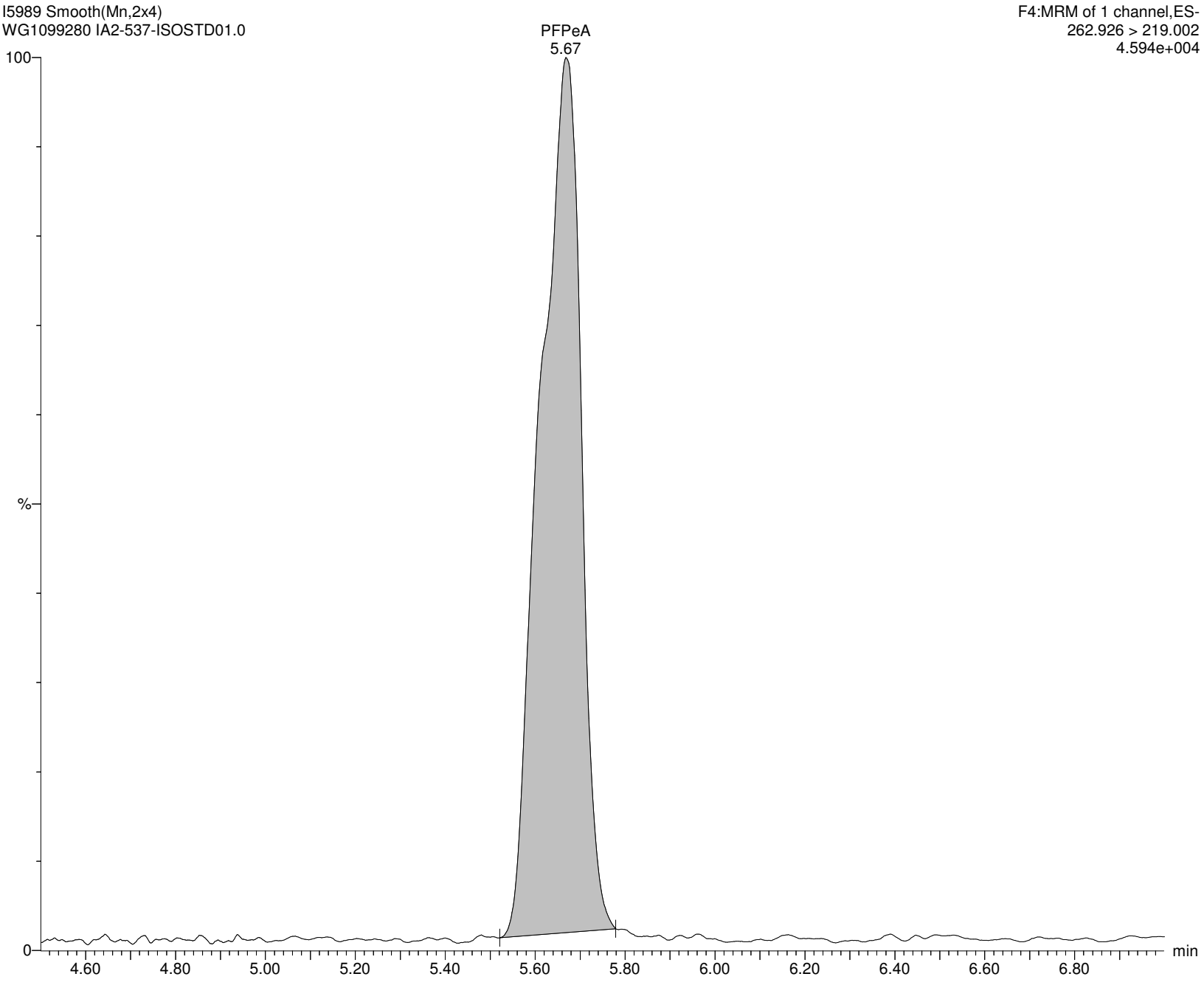

all concentration units in (ng/mL)

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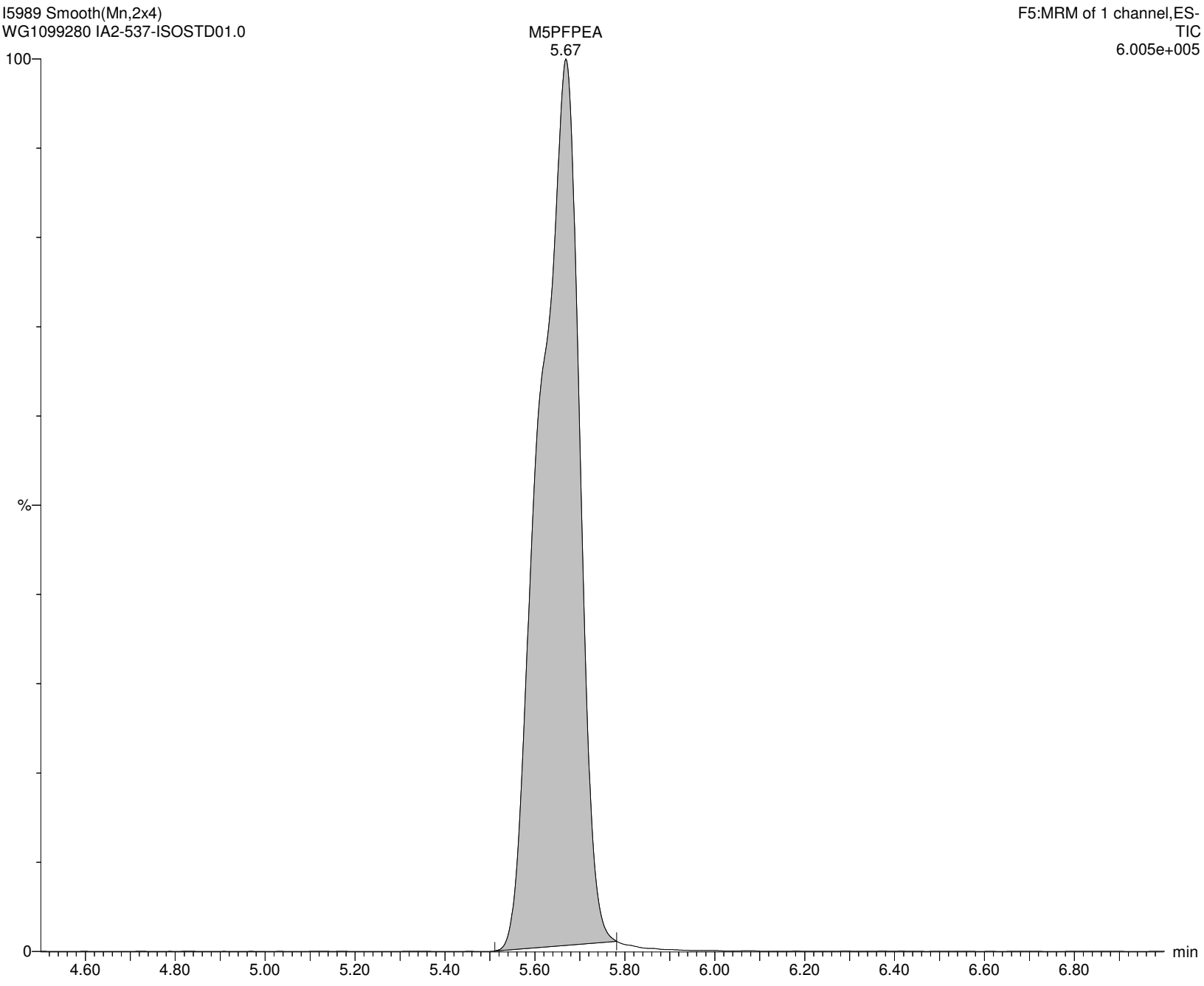

all concentration units in (ng/mL)

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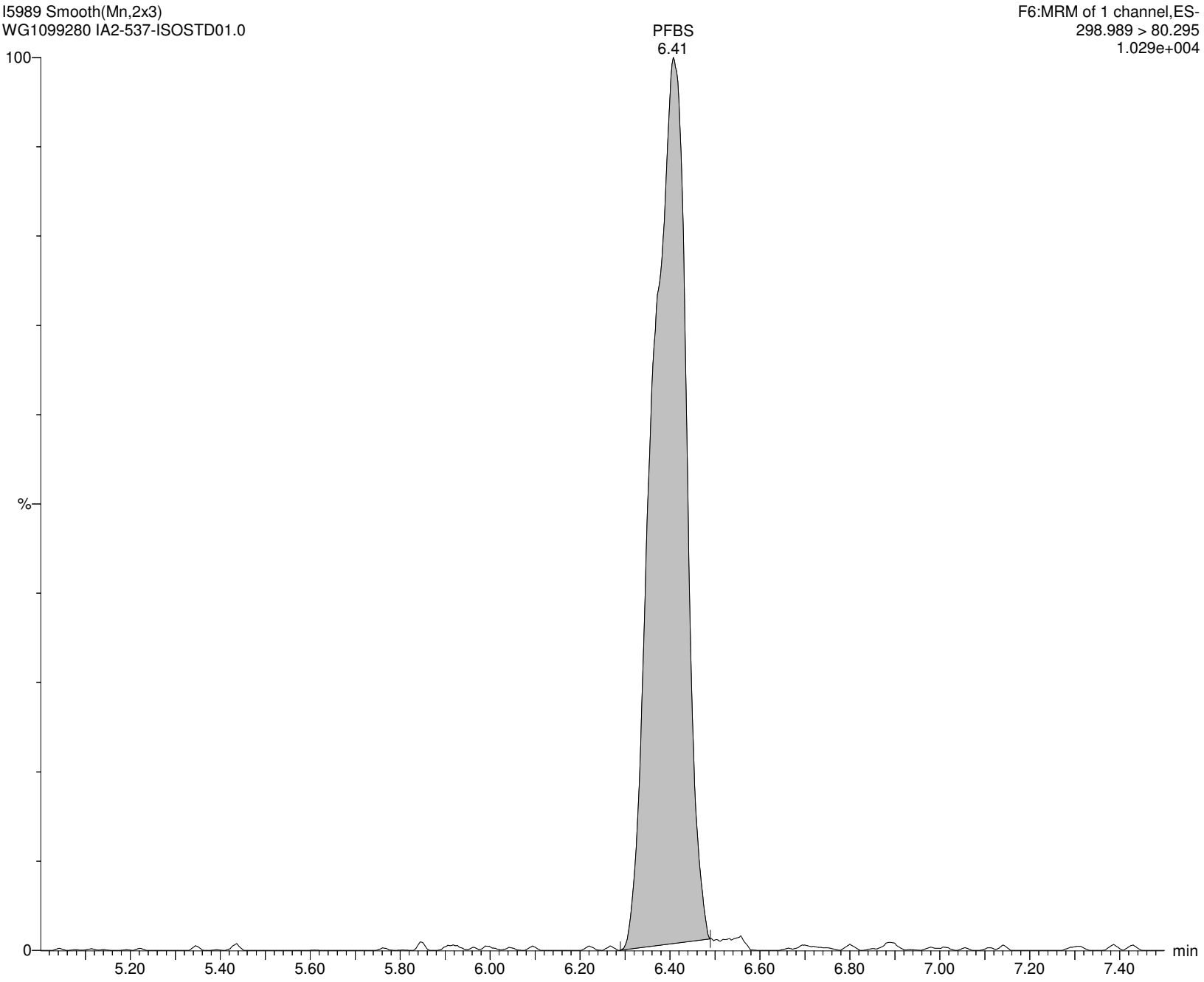

all concentration units in (ng/mL)

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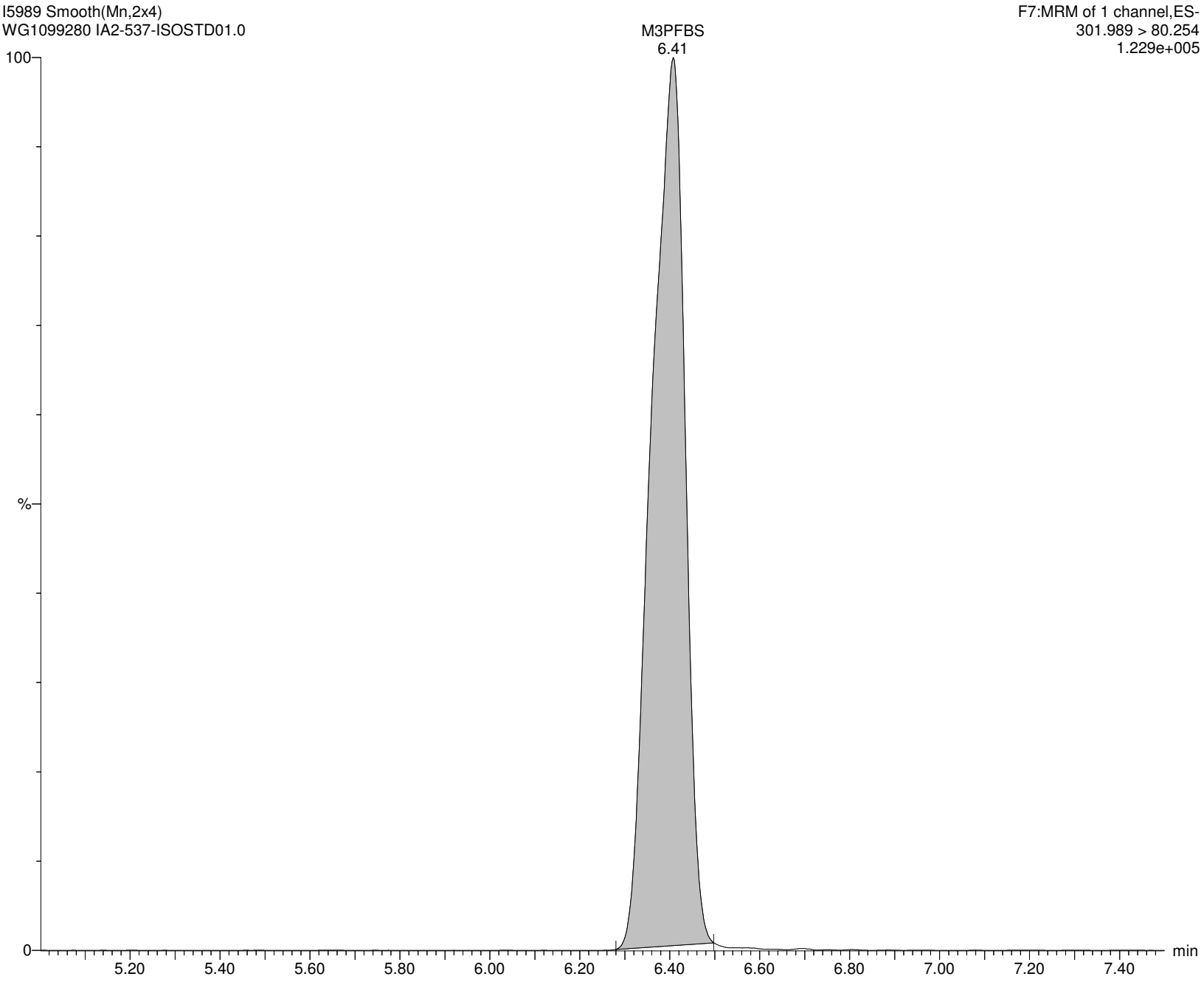

all concentration units in (ng/mL)

Alpha Analytical Inc.
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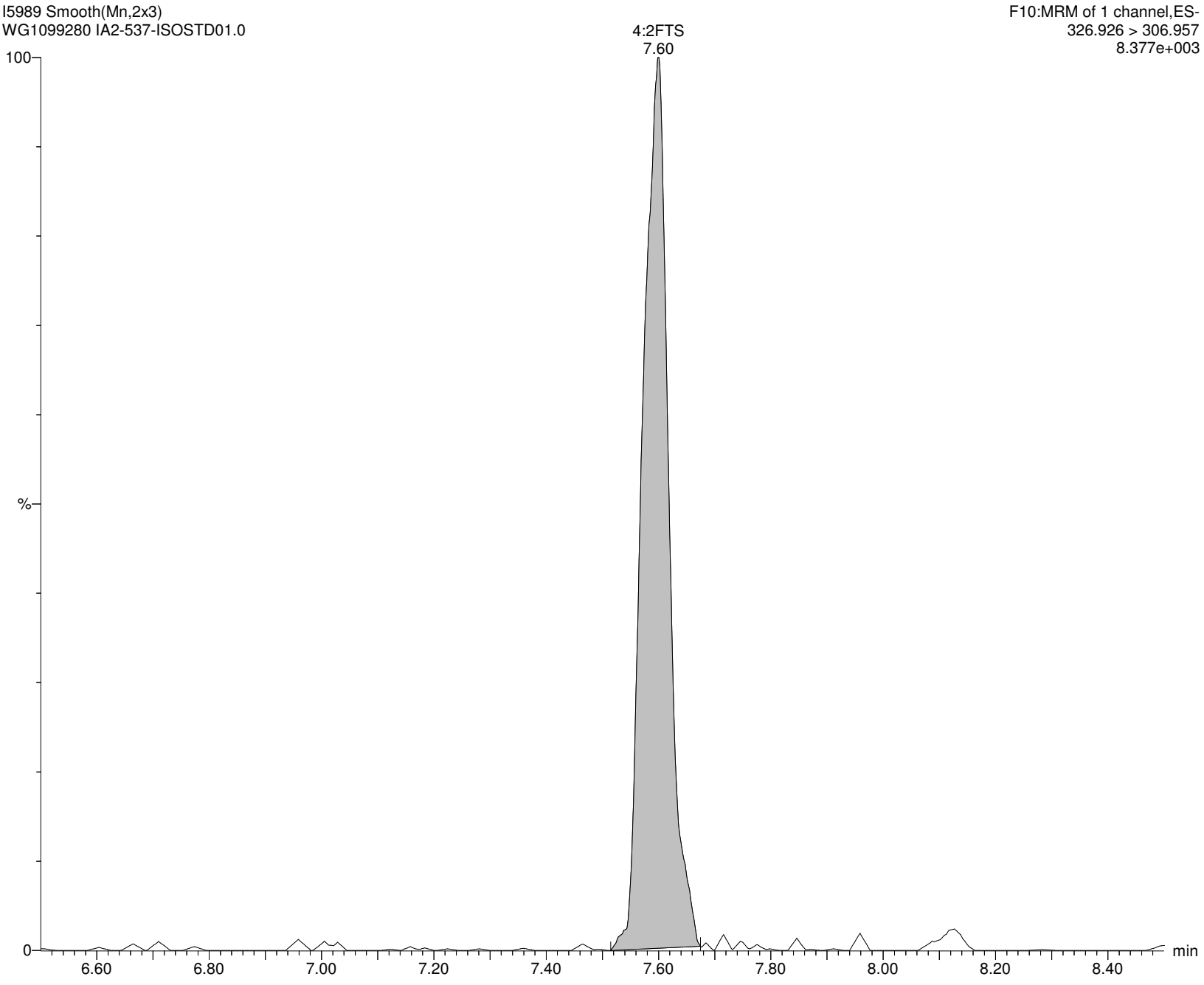

all concentration units in (ng/mL)

Alpha Analytical Inc.
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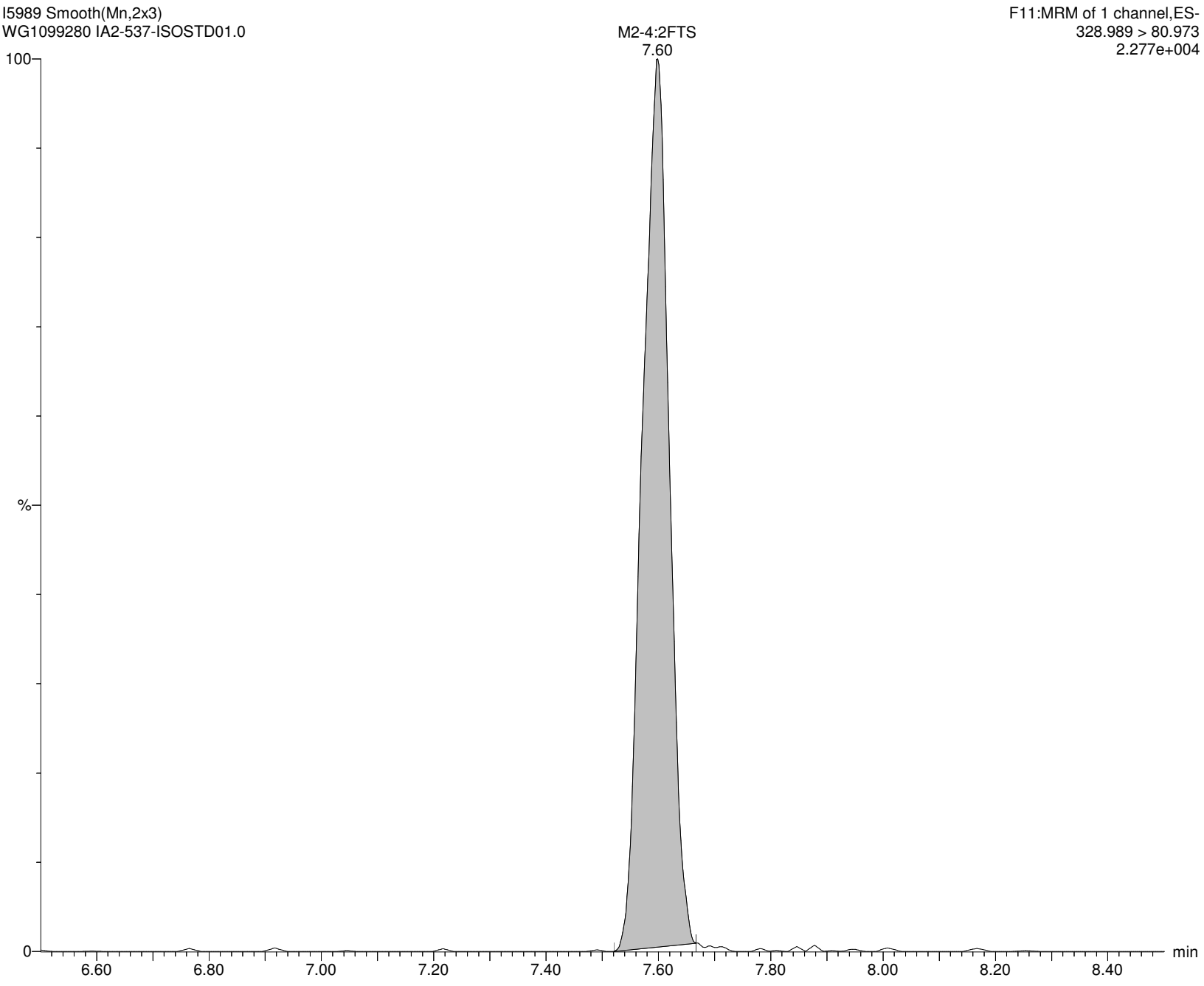

all concentration units in (ng/mL)

Alpha Analytical Inc.
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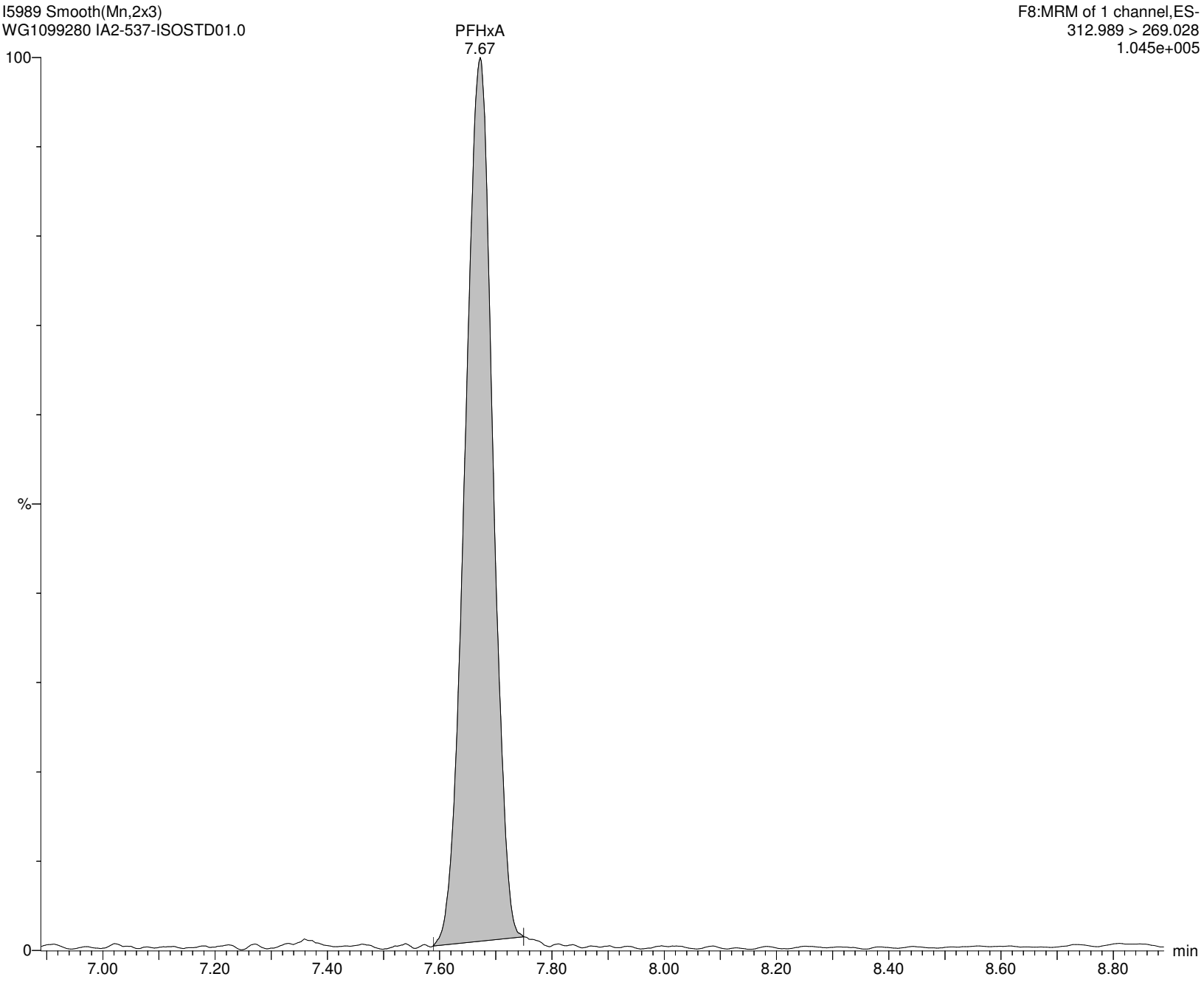

all concentration units in (ng/mL)

Alpha Analytical Inc.
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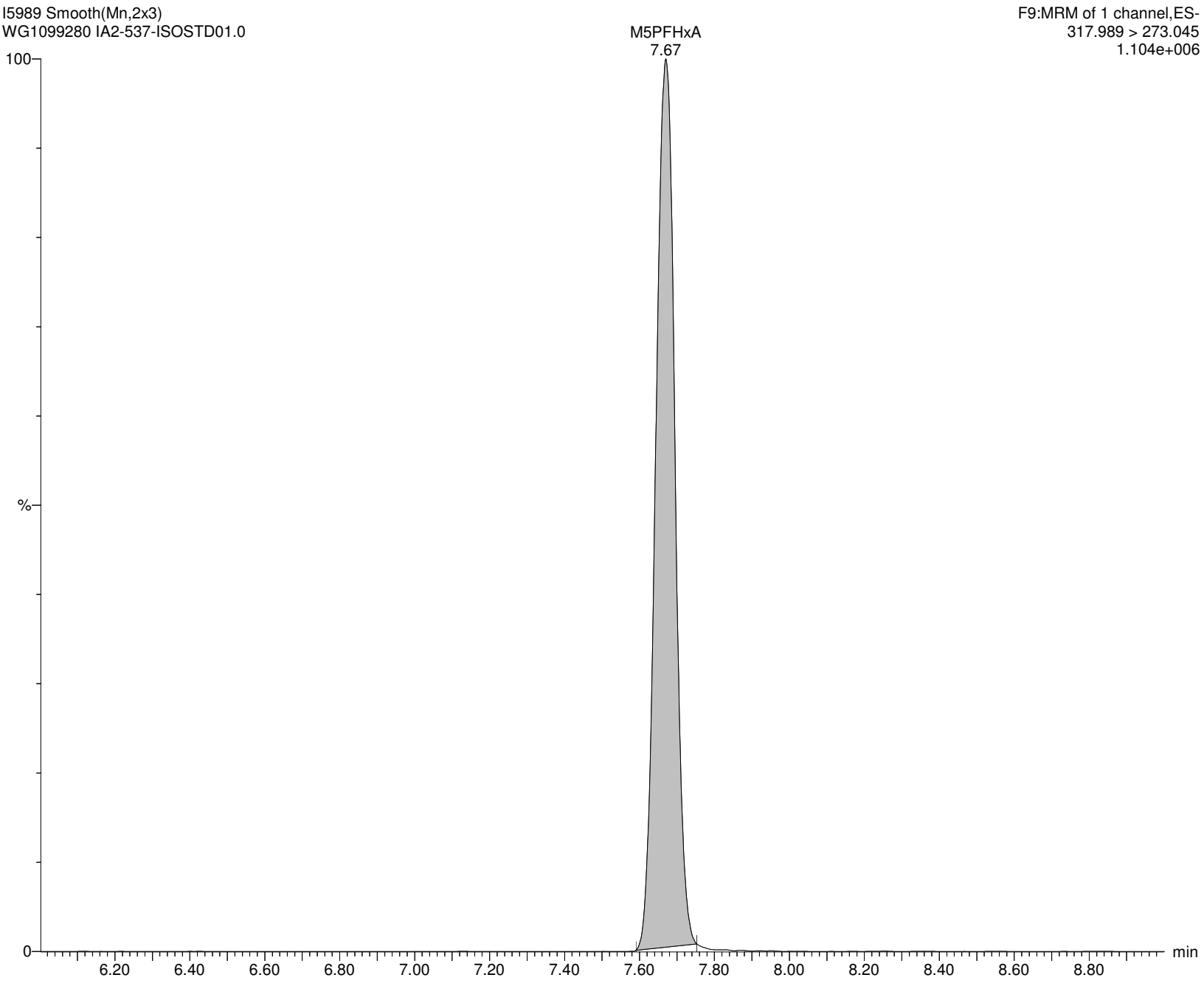

all concentration units in (ng/mL)

Alpha Analytical Inc.
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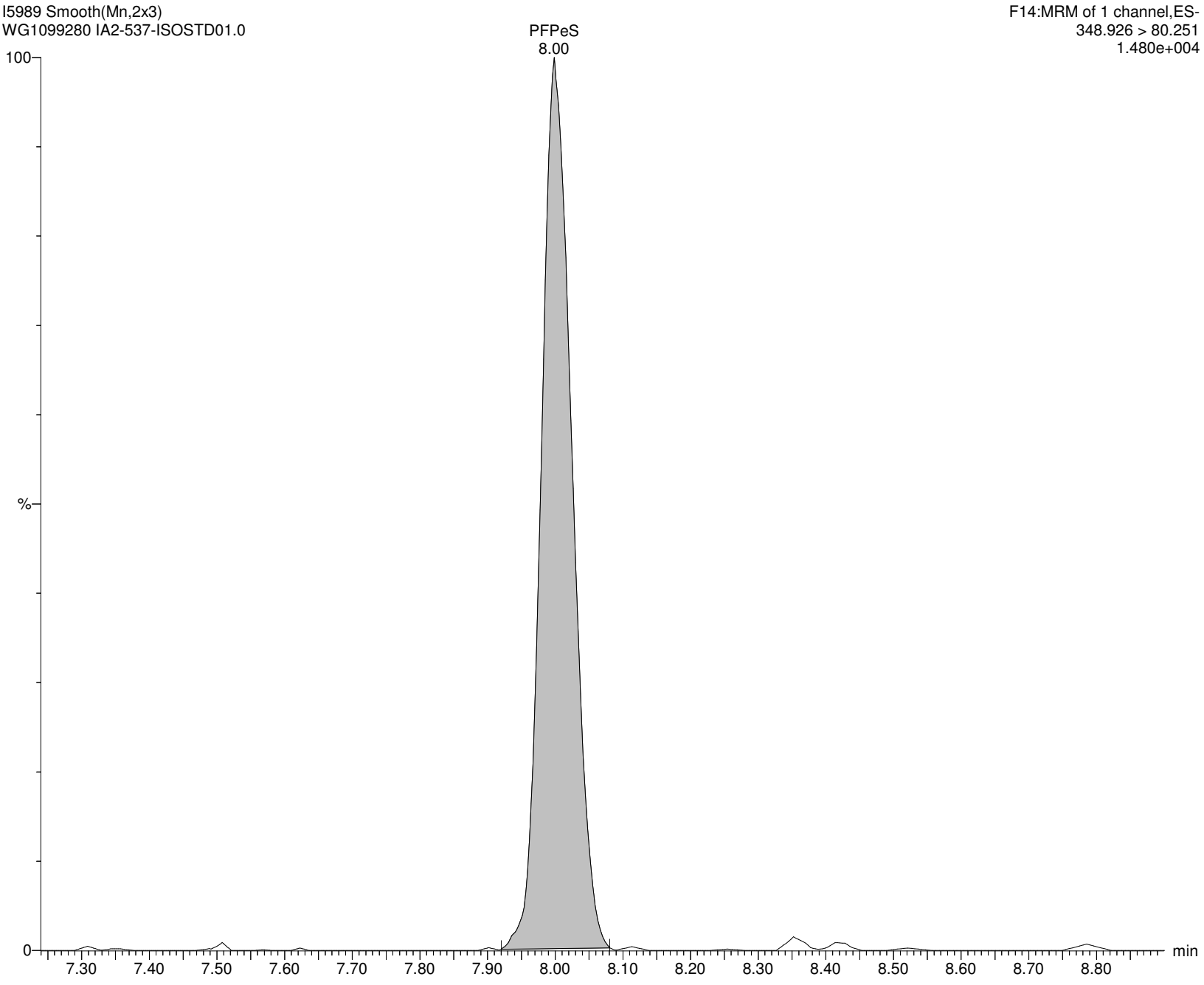

all concentration units in (ng/mL)

Alpha Analytical Inc.
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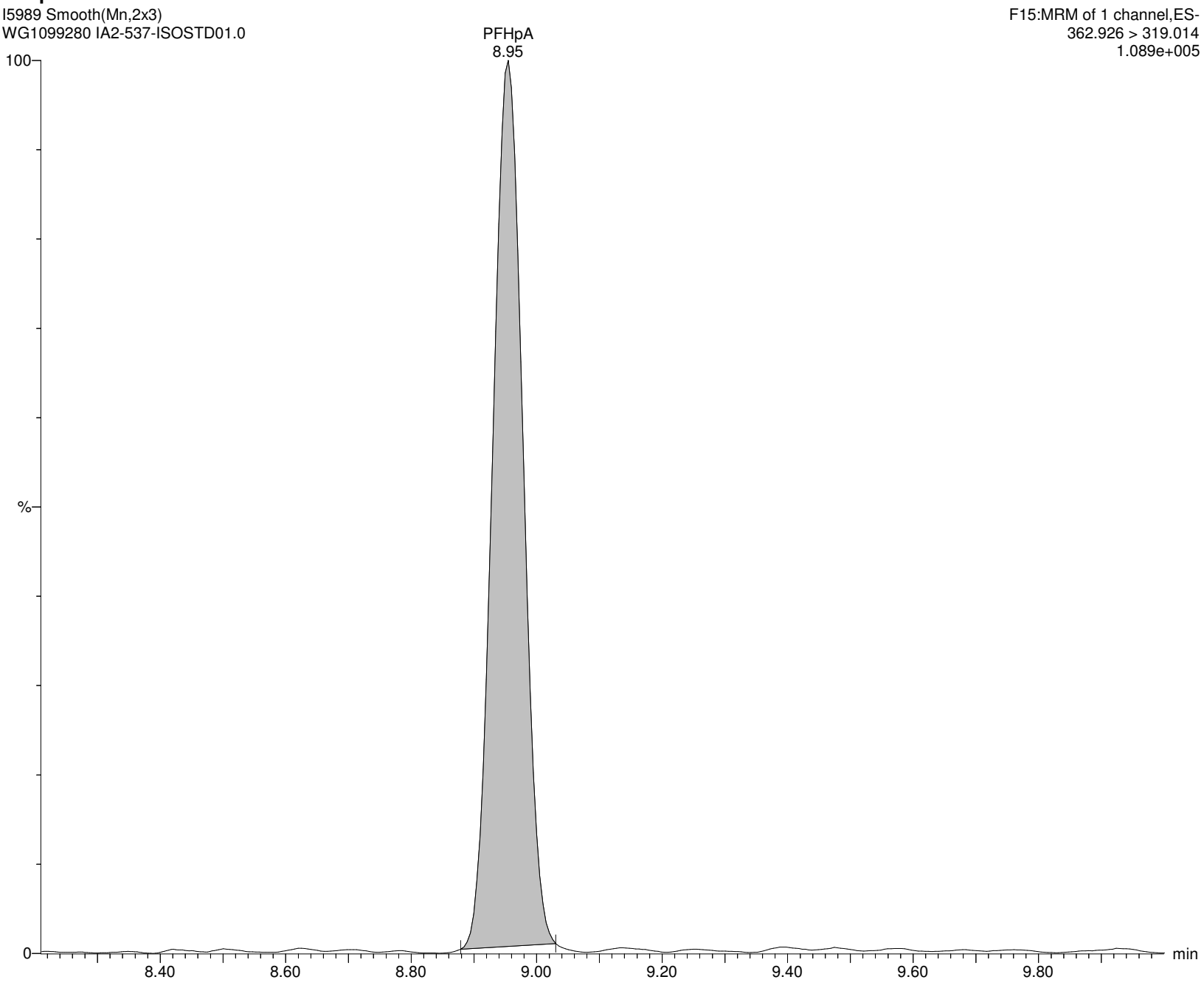

all concentration units in (ng/mL)

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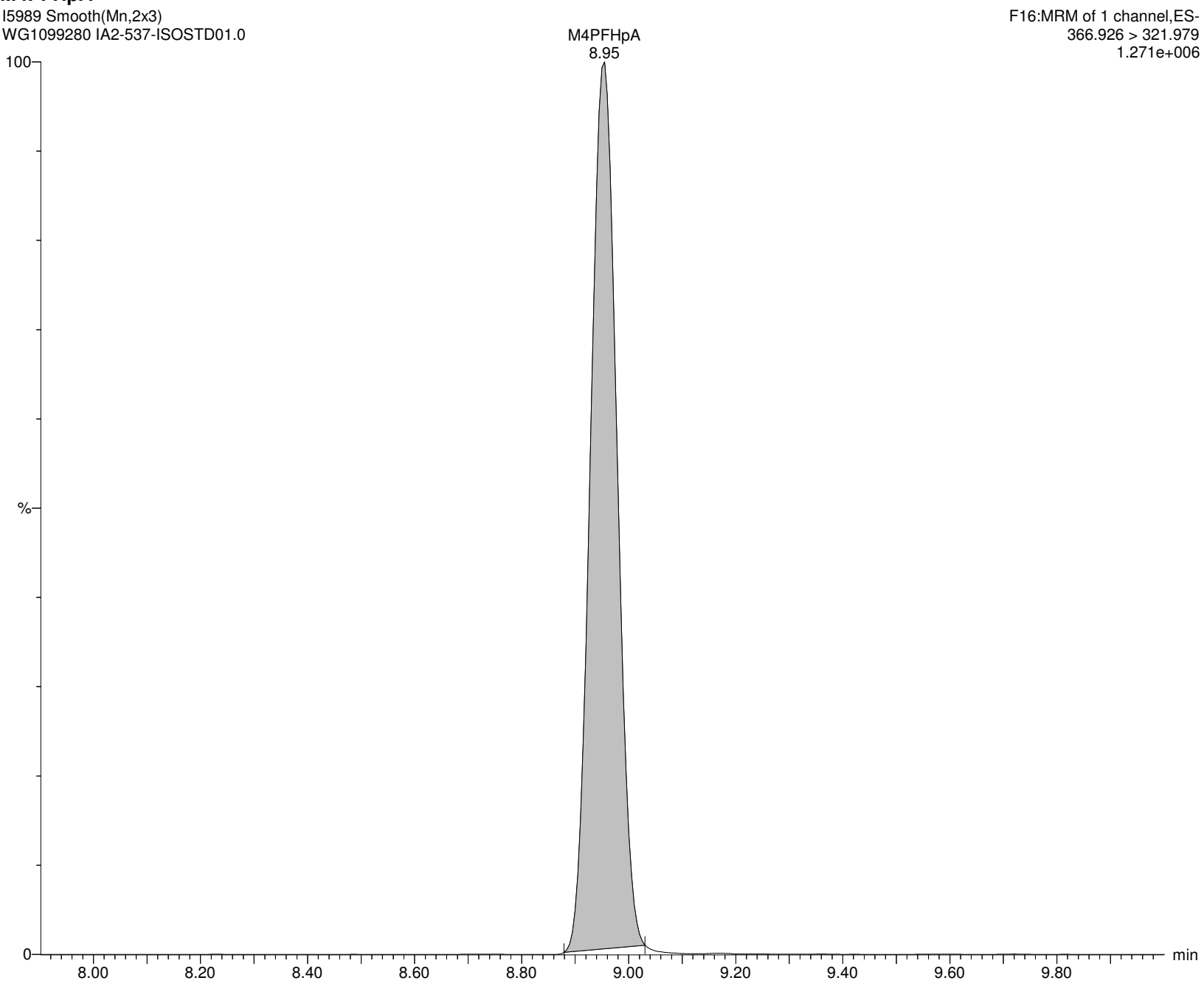

all concentration units in (ng/mL)

Alpha Analytical Inc.
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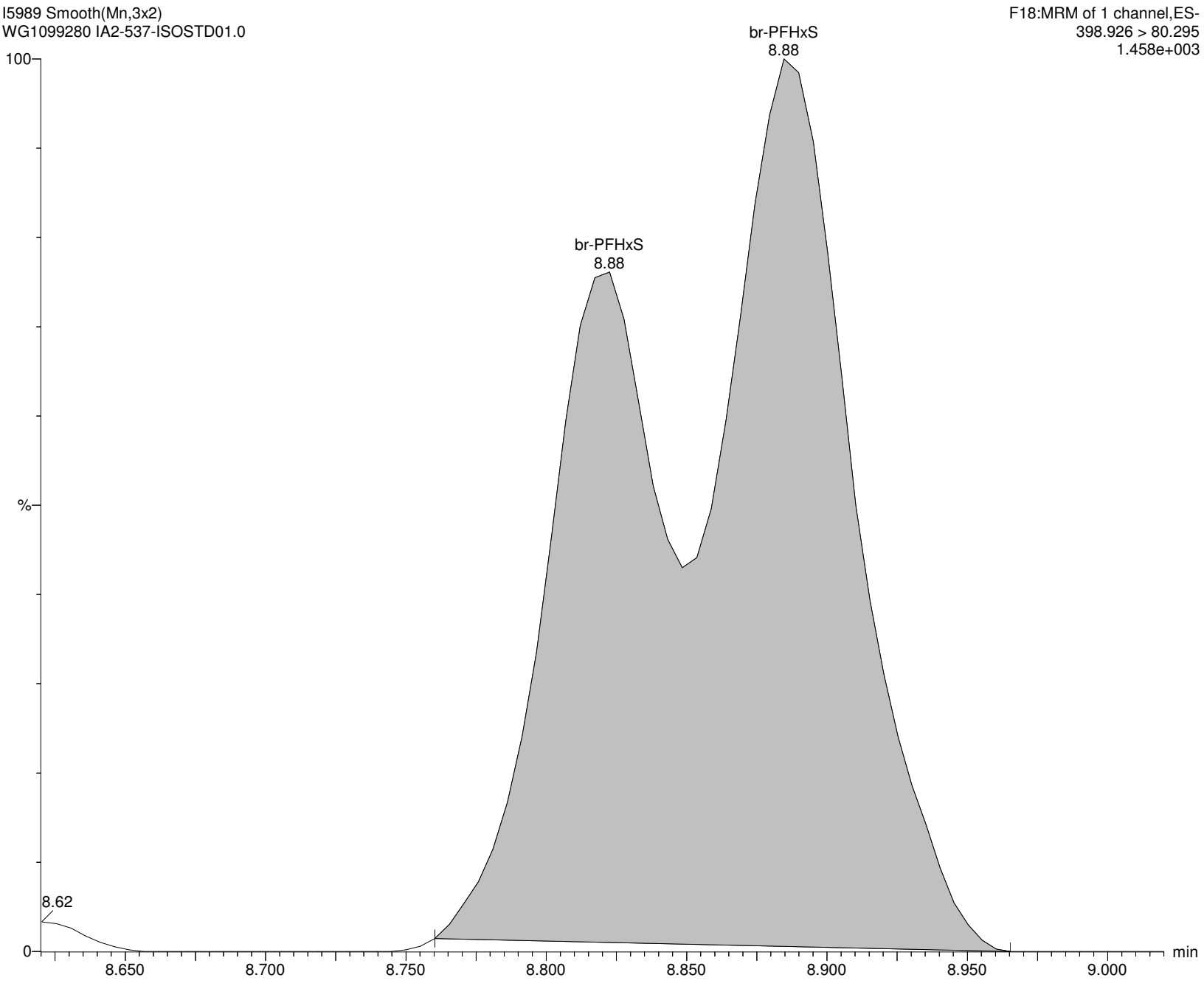

all concentration units in (ng/mL)

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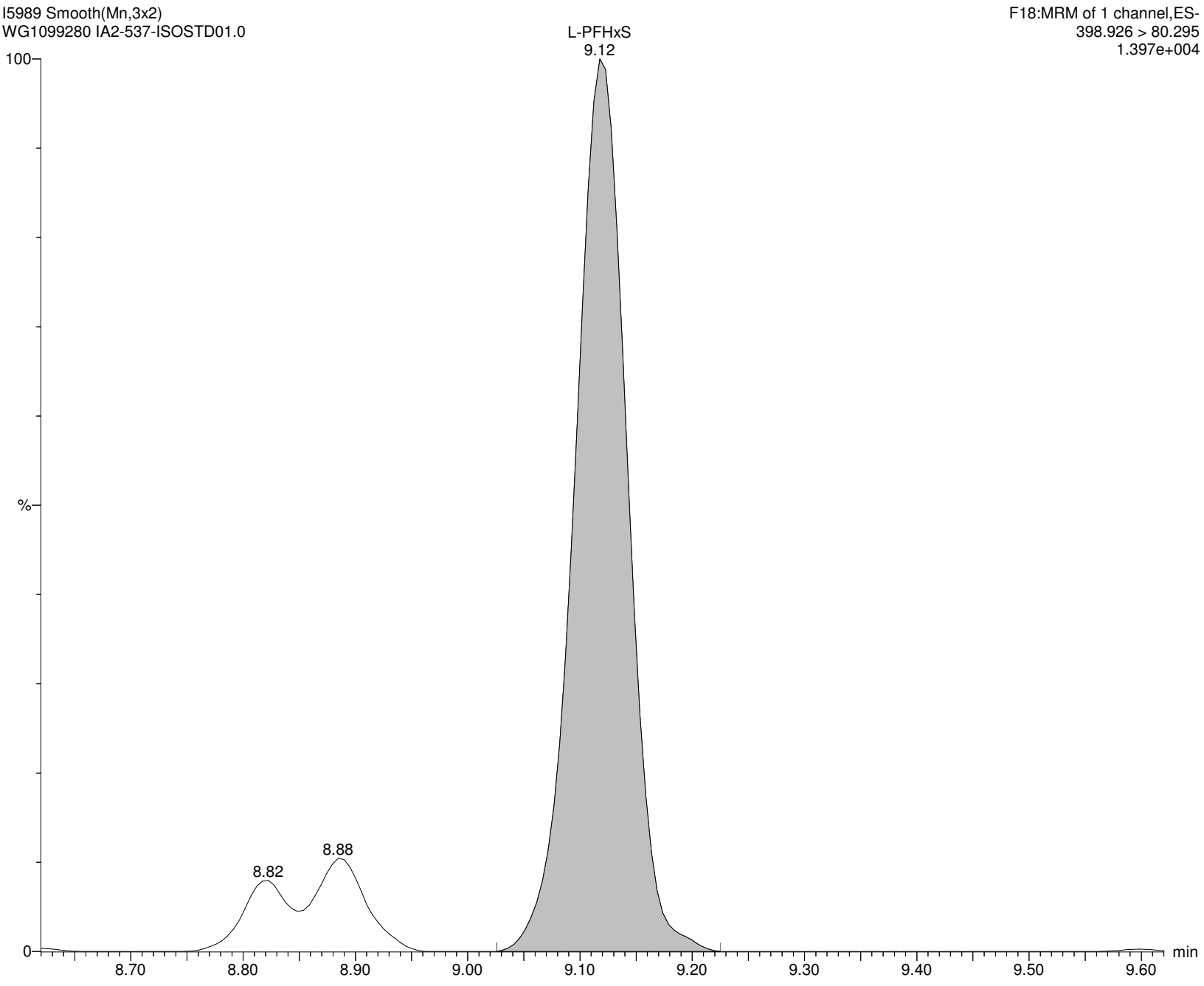

all concentration units in (ng/mL)

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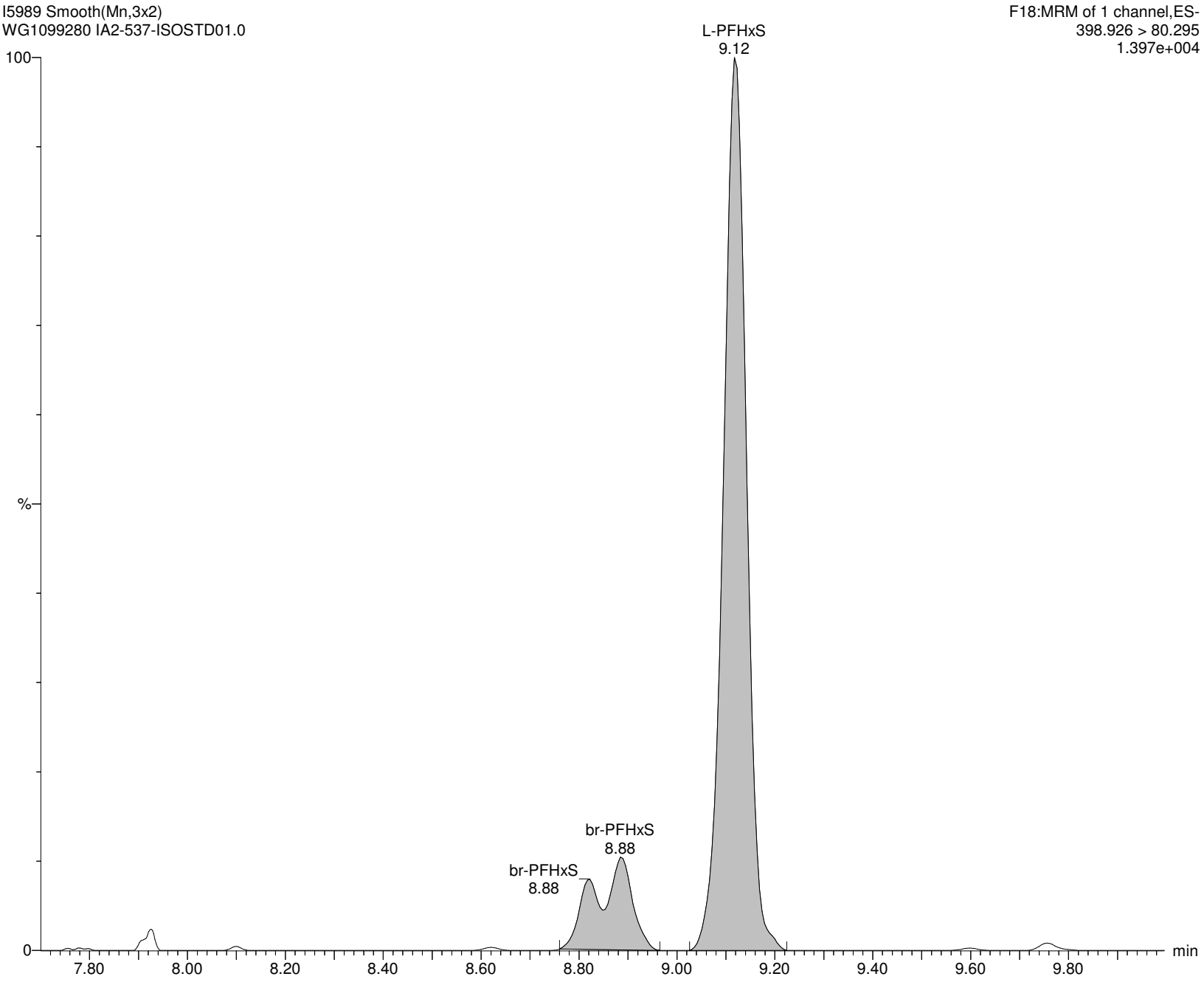

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:46 Eastern Daylight Time

Name: I5989
ID: IA2-537-ISOSTD01.0
Date: 21-Mar-2018
Time: 16:08:46
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,2
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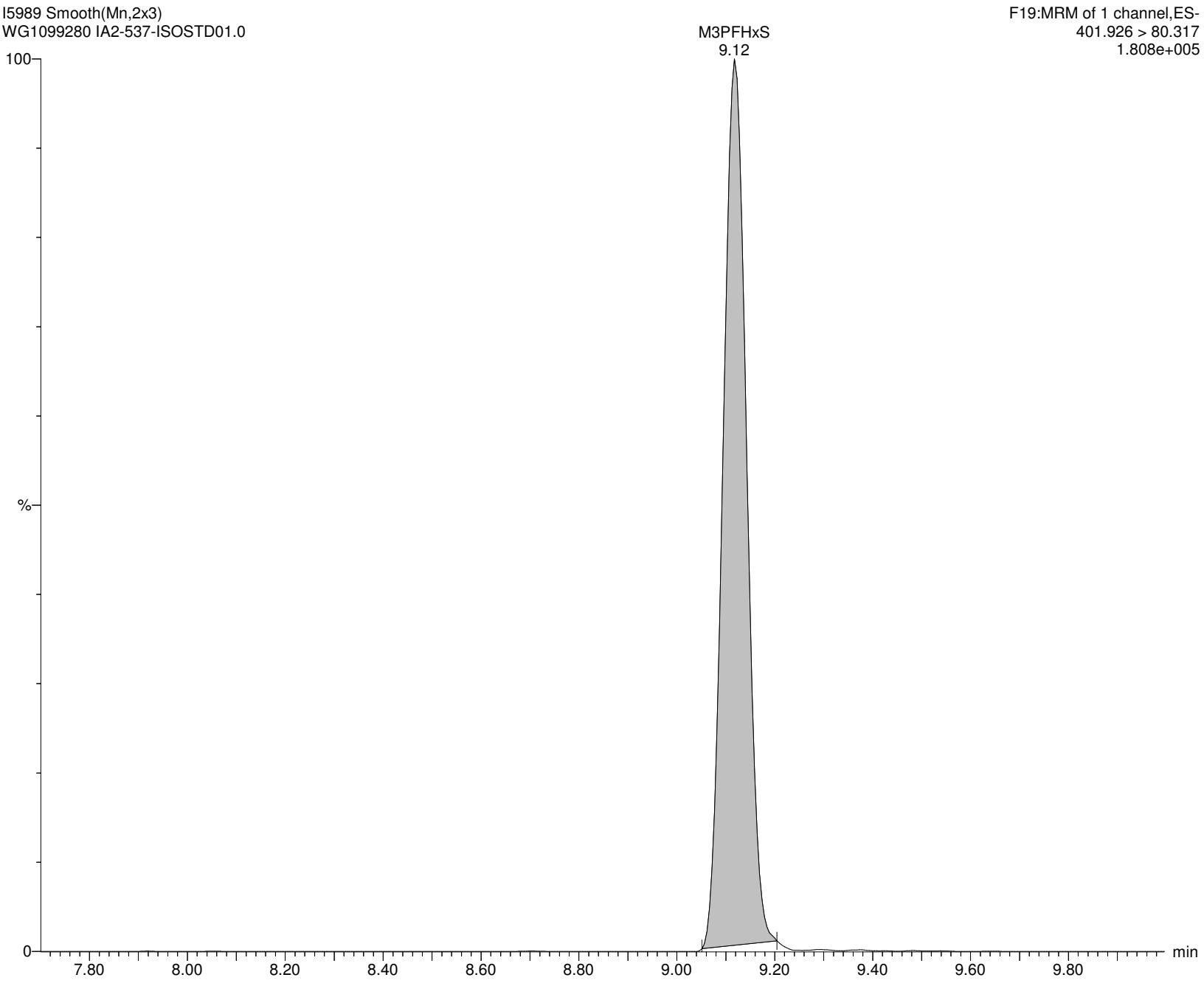

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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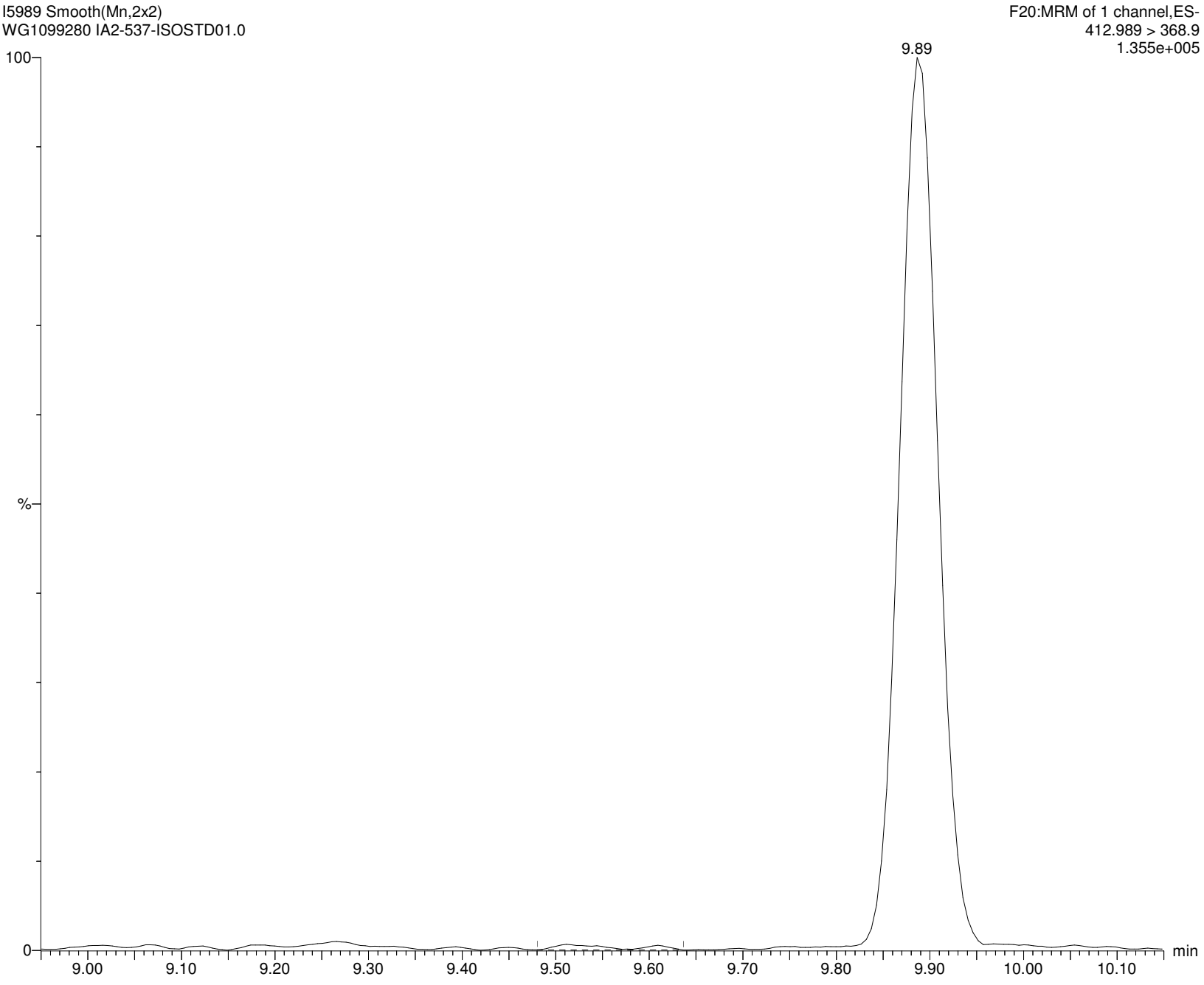

all concentration units in (ng/mL)

Alpha Analytical Inc.
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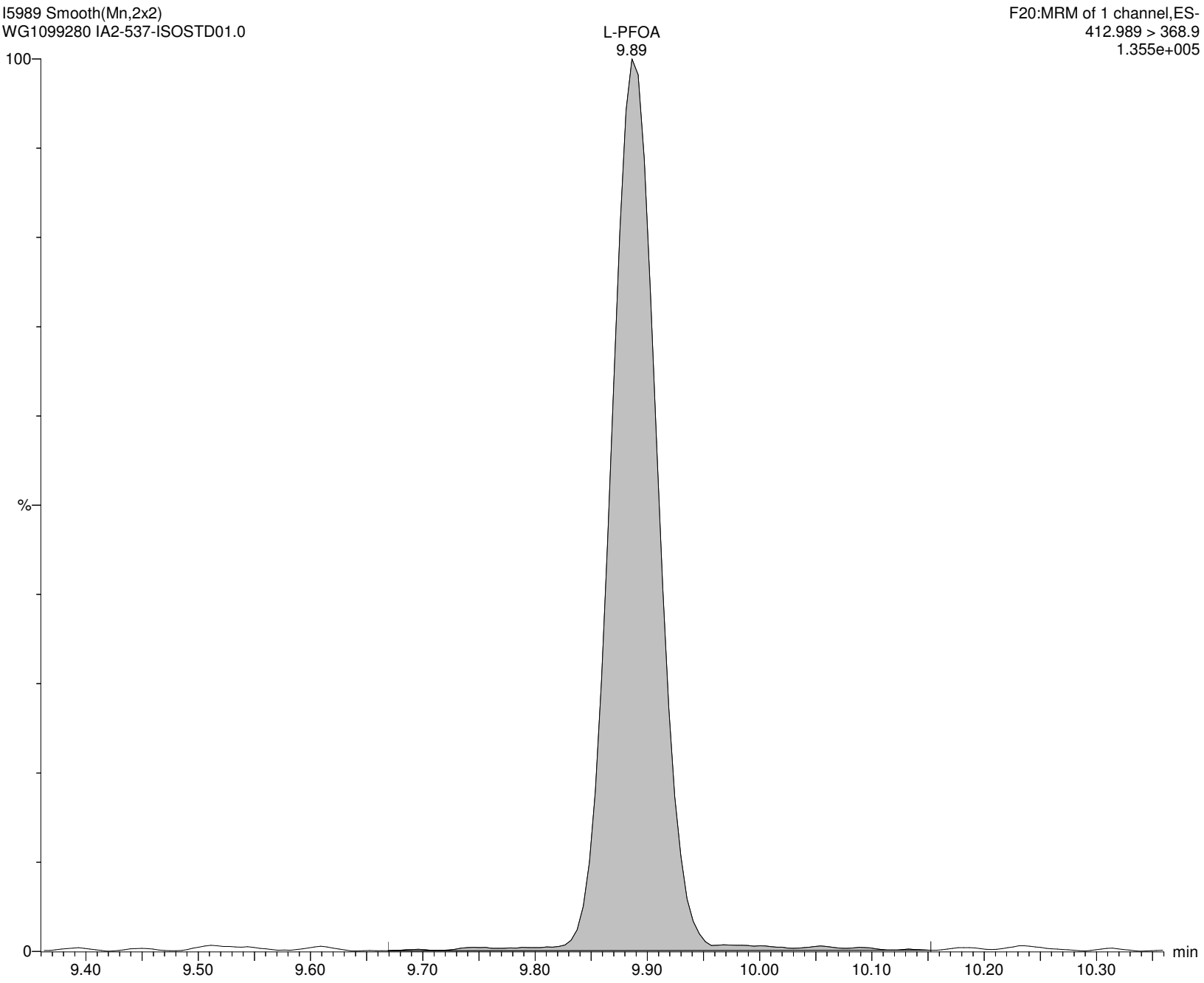

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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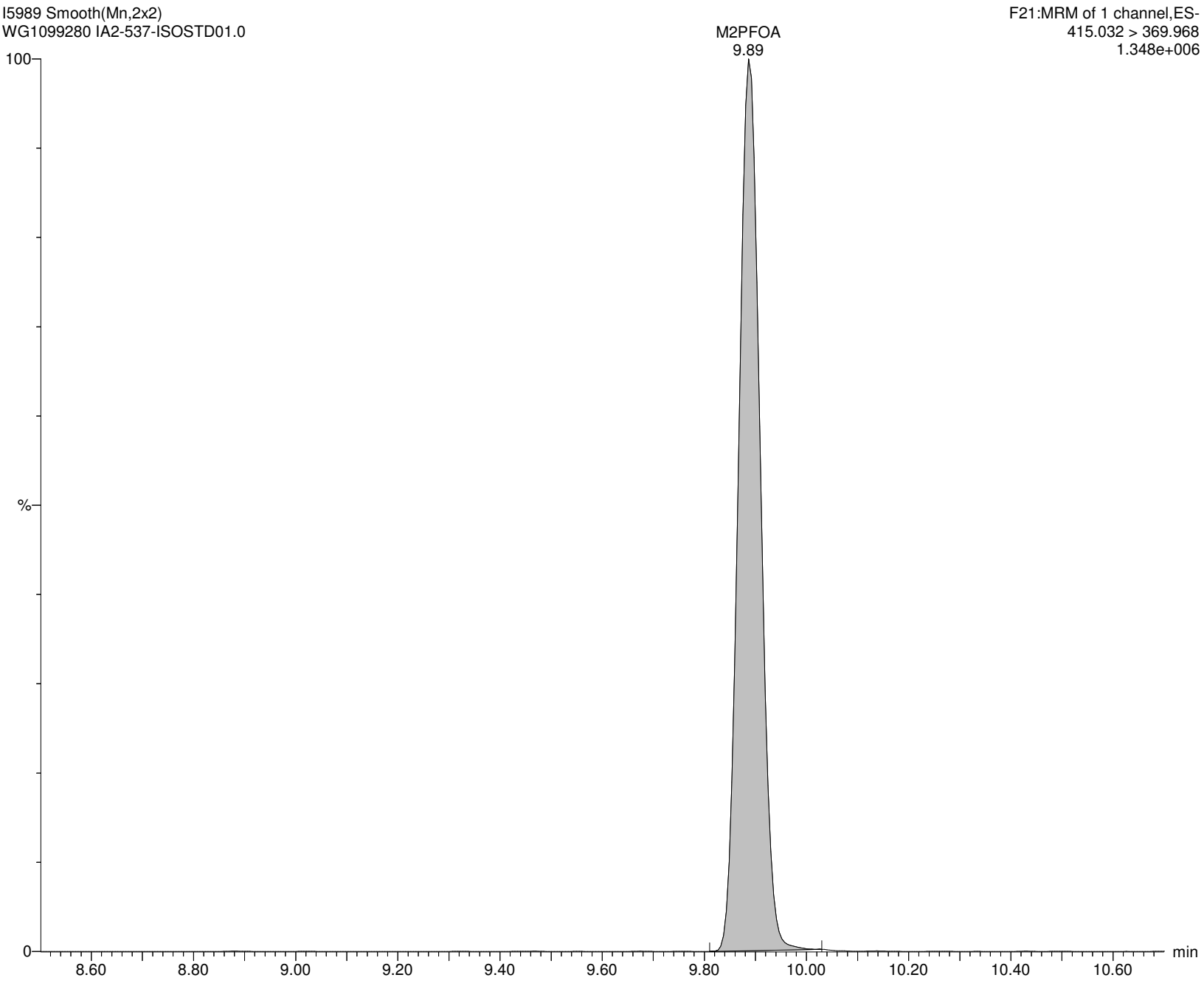

all concentration units in (ng/mL)

Alpha Analytical Inc.
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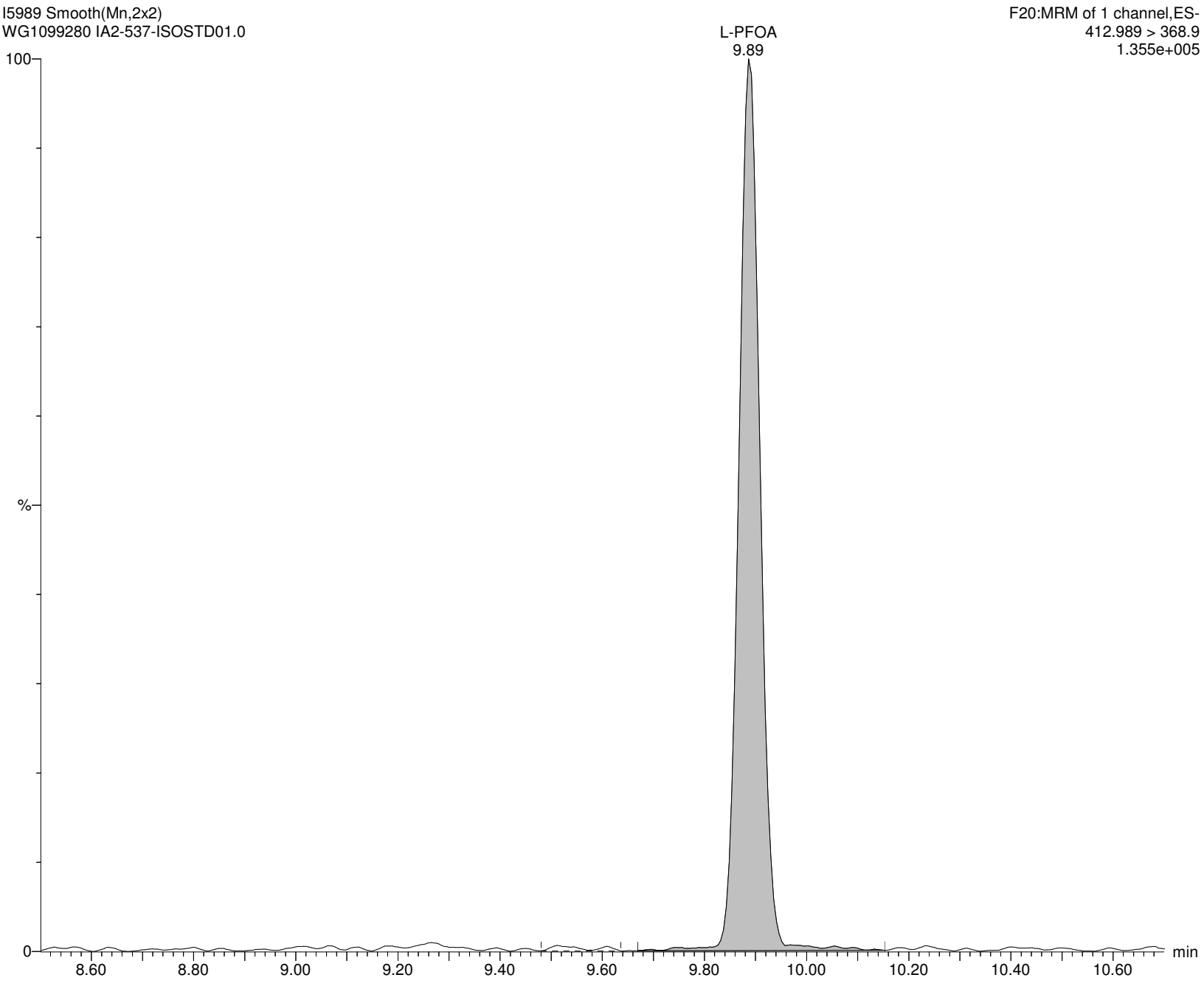

all concentration units in (ng/mL)

Alpha Analytical Inc.
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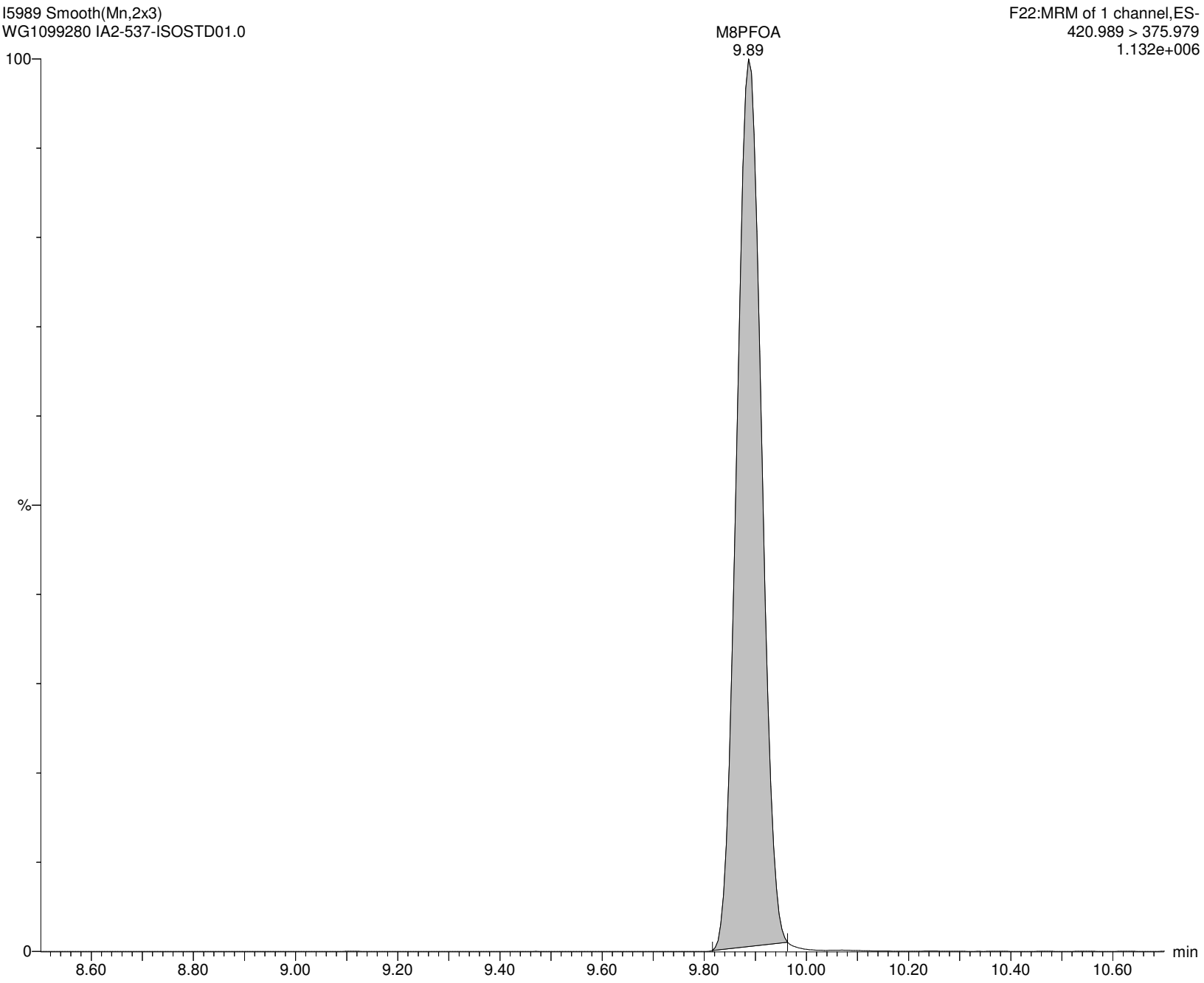

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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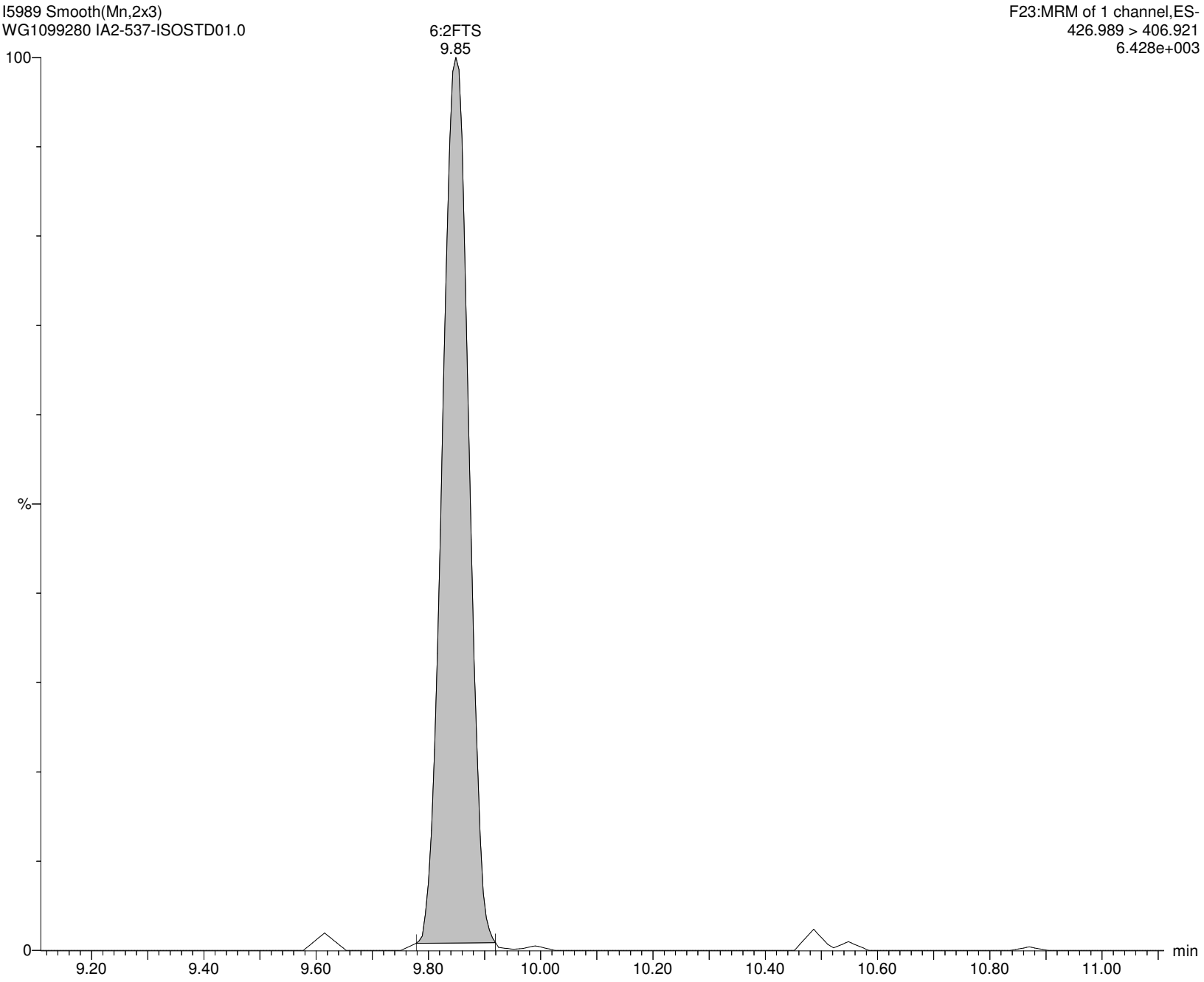

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 16:08:46
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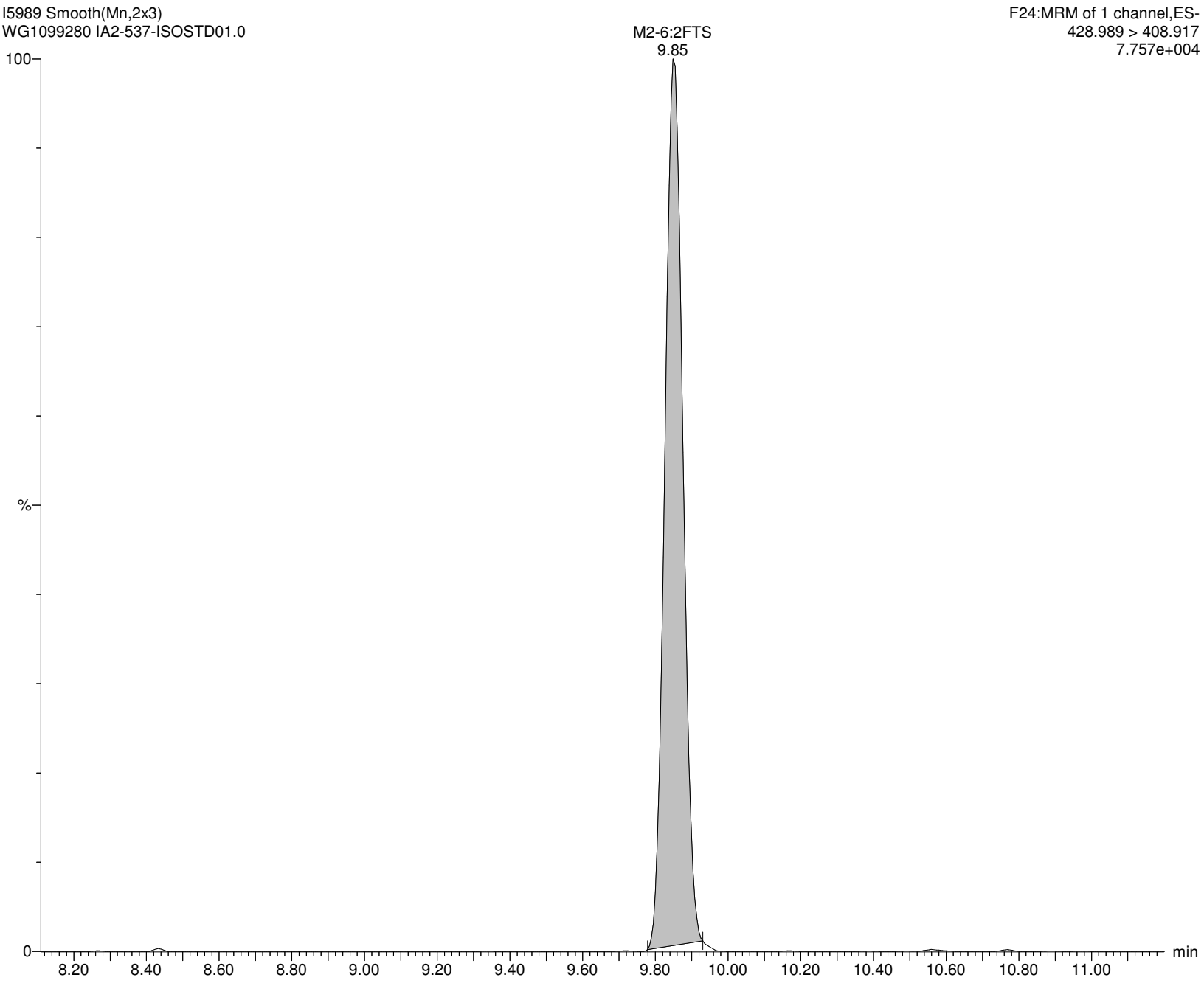

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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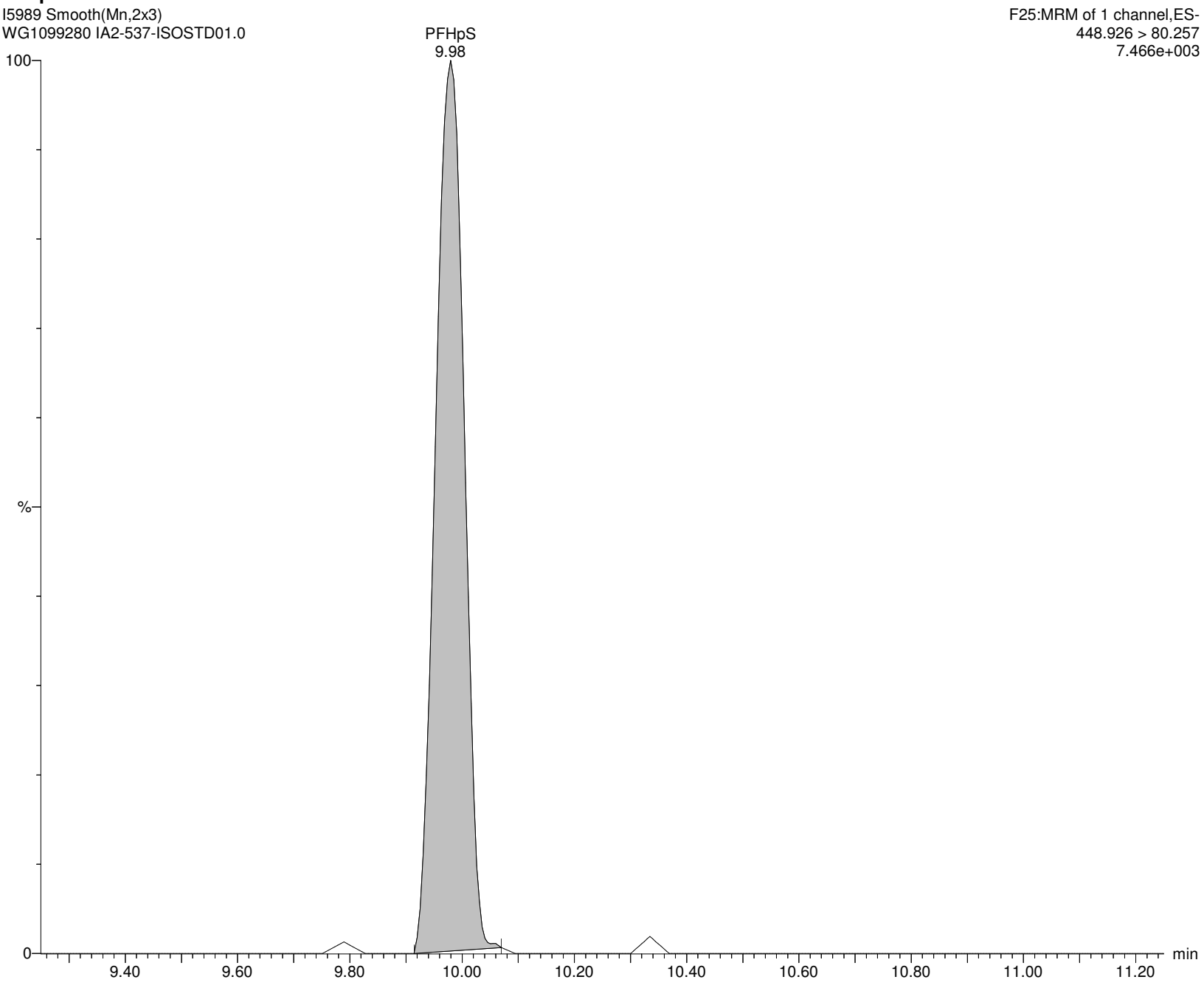

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I5989
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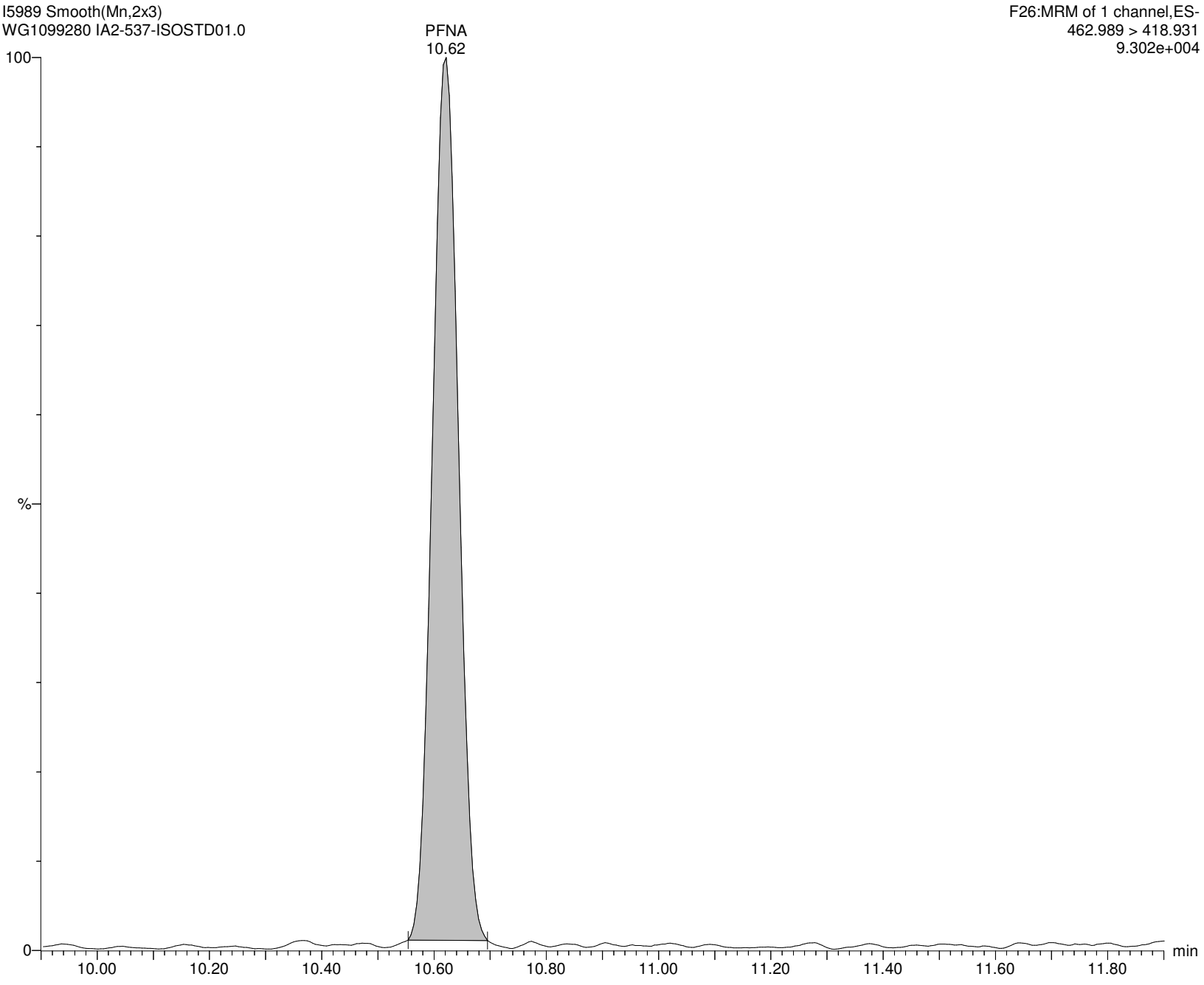

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5989
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Date: 21-Mar-2018
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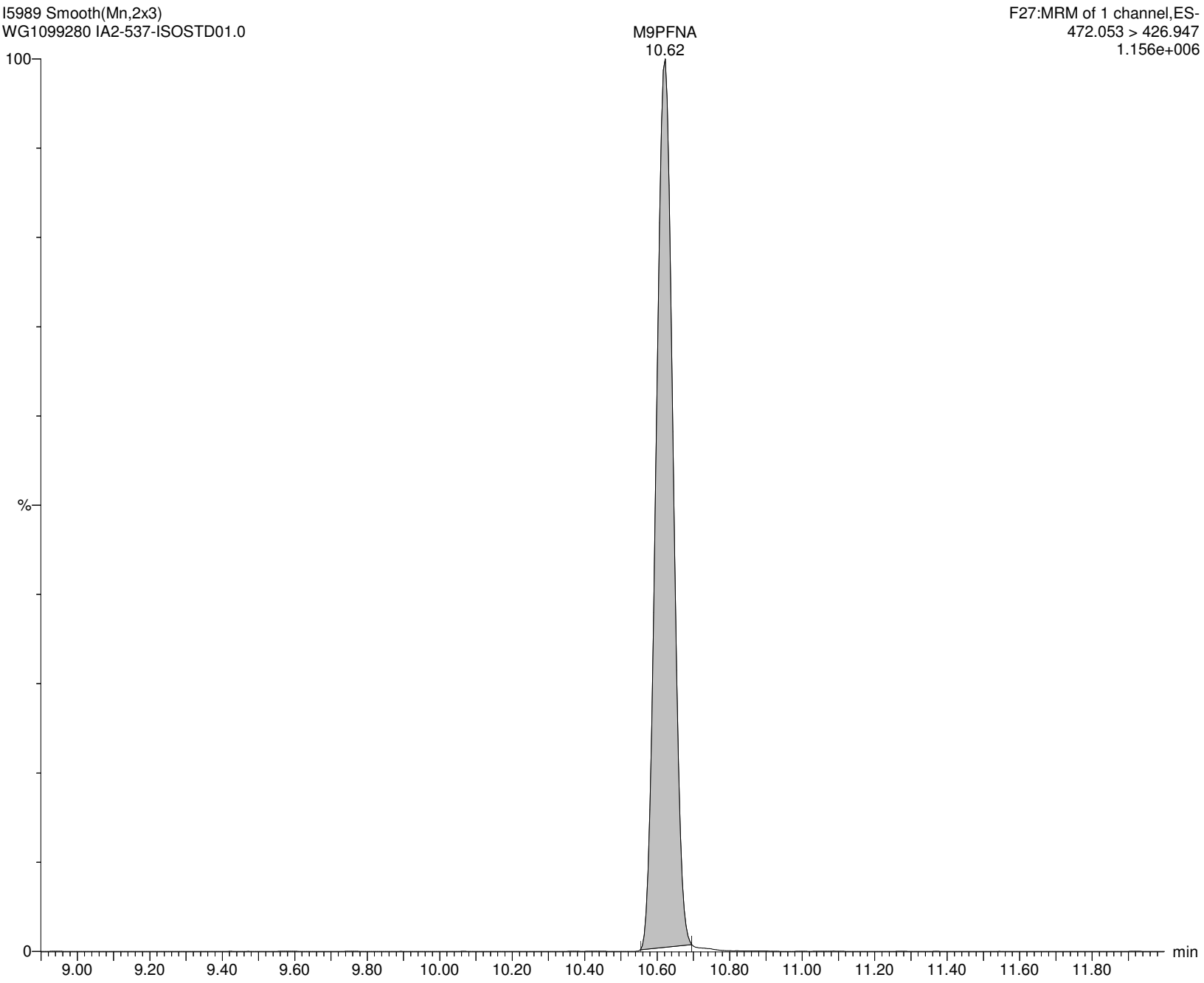

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Time: 16:08:46
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Vial: 2:A,2
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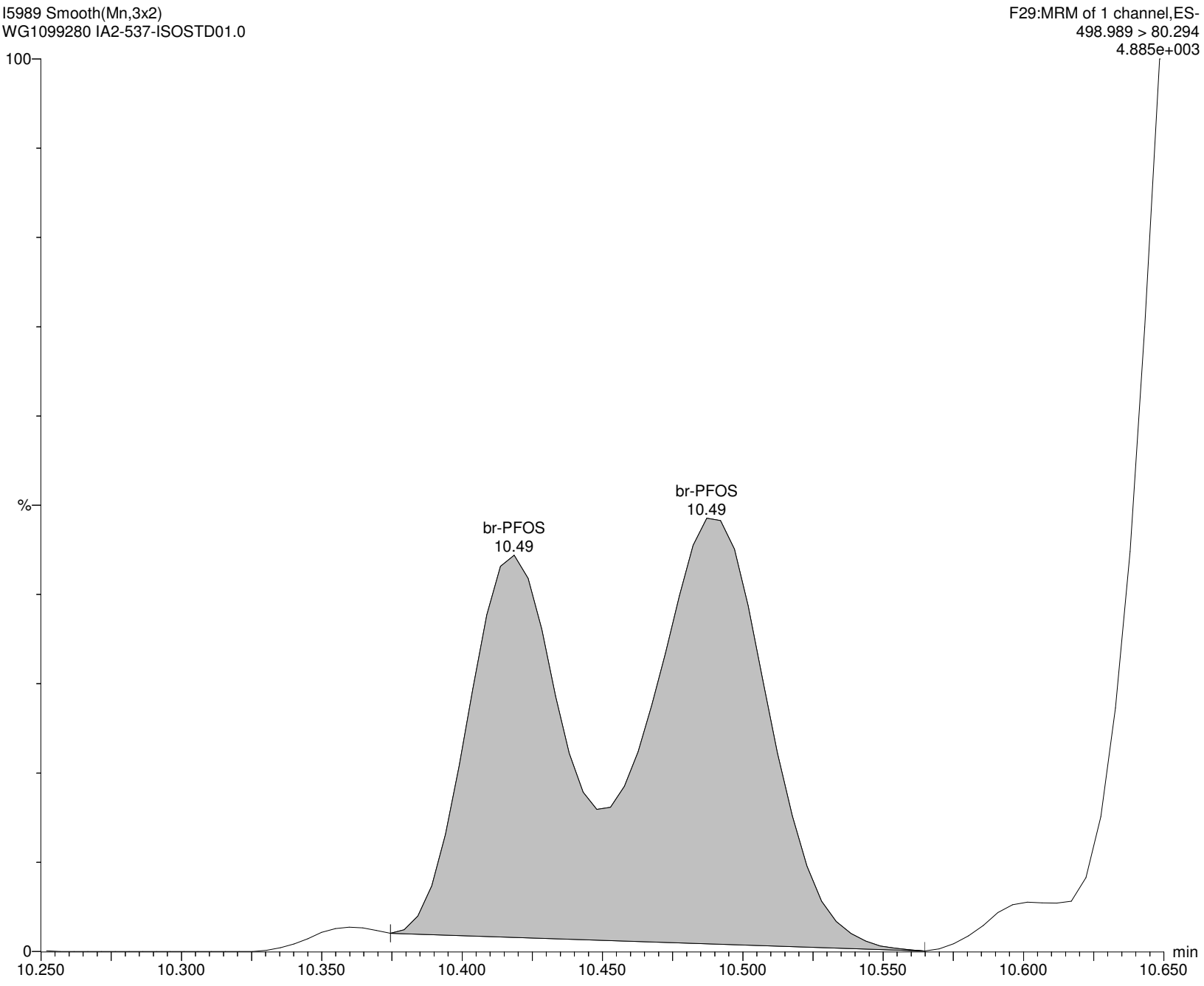

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:A,2
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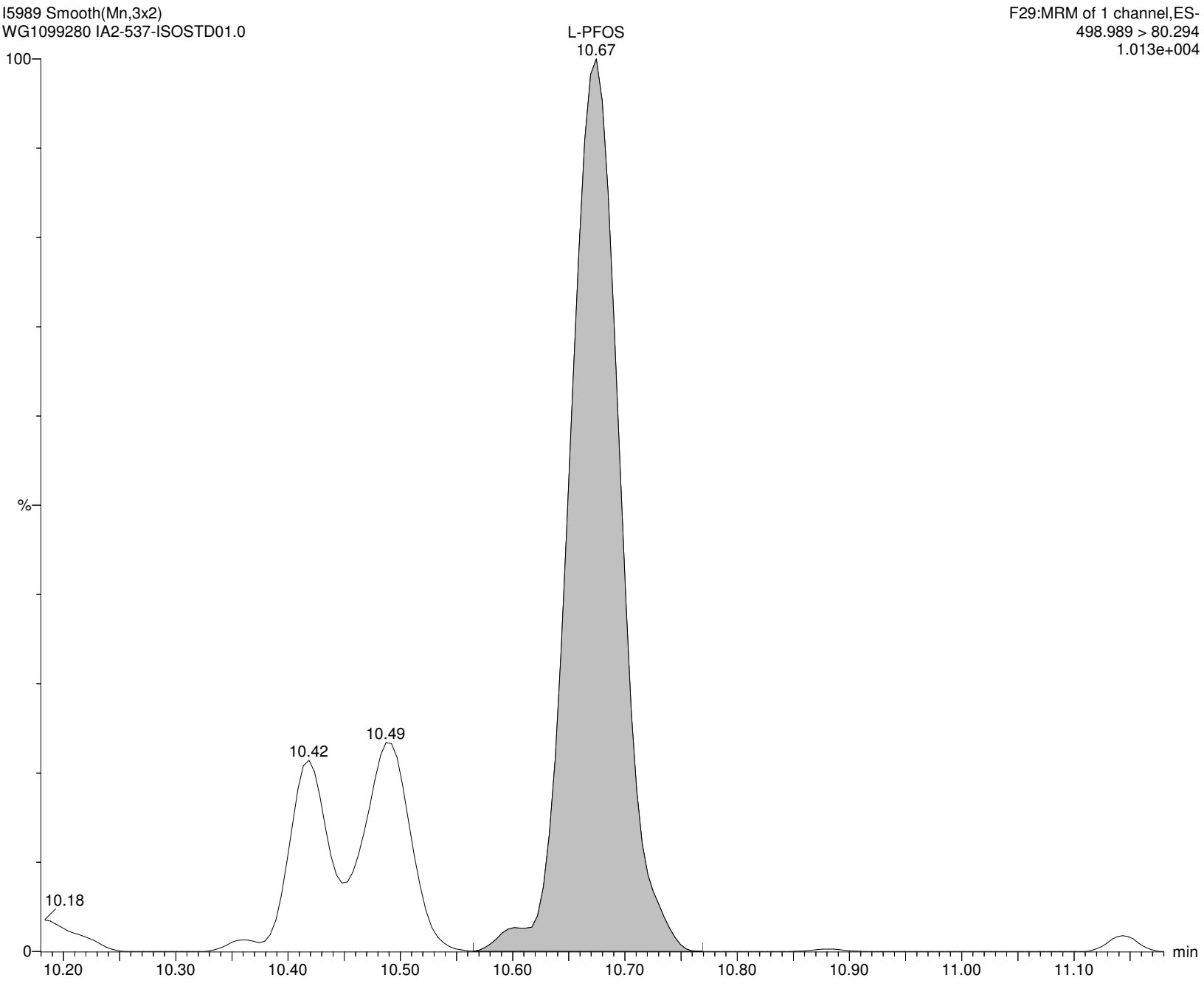
L-PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Vial: 2:A,2
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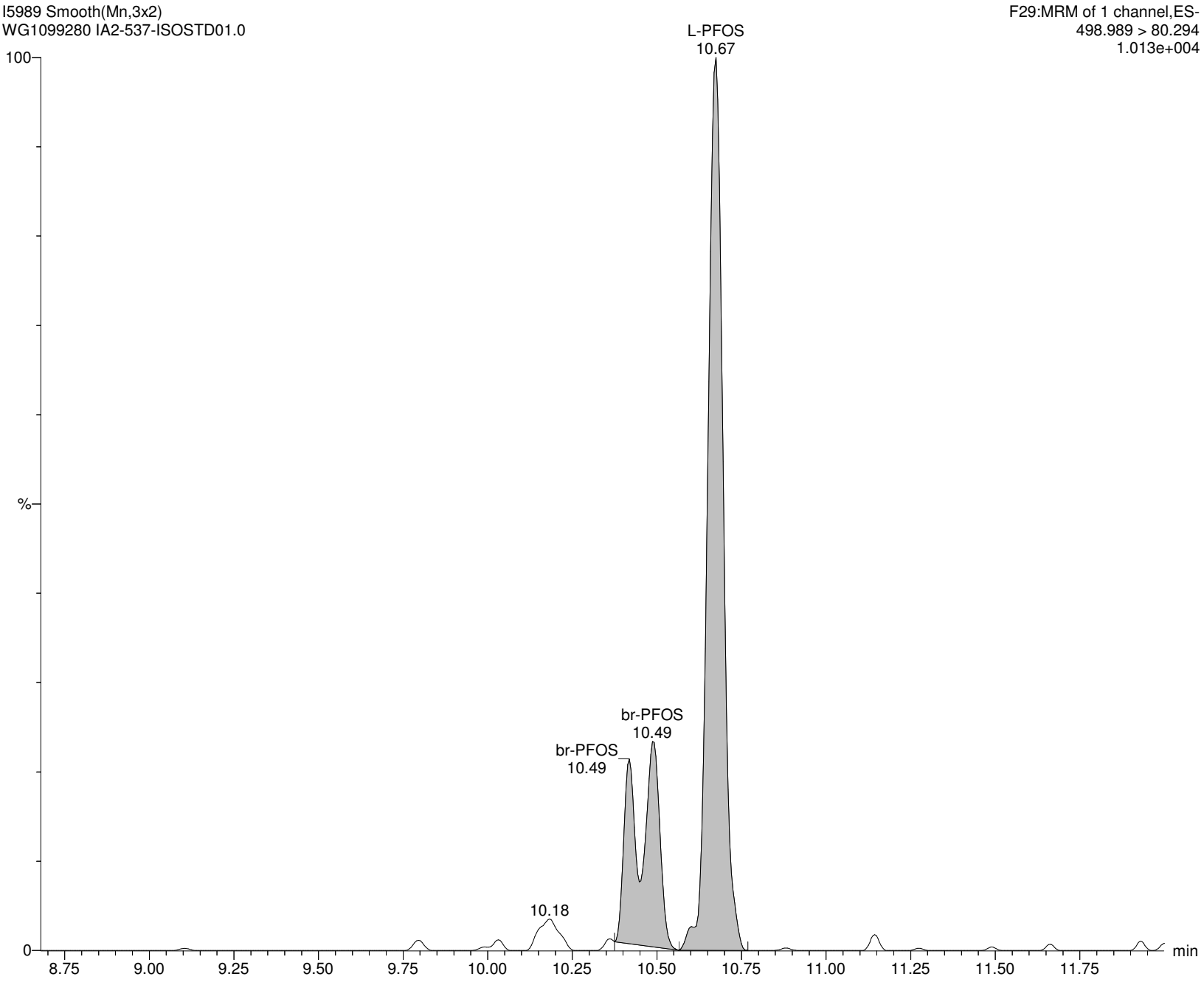

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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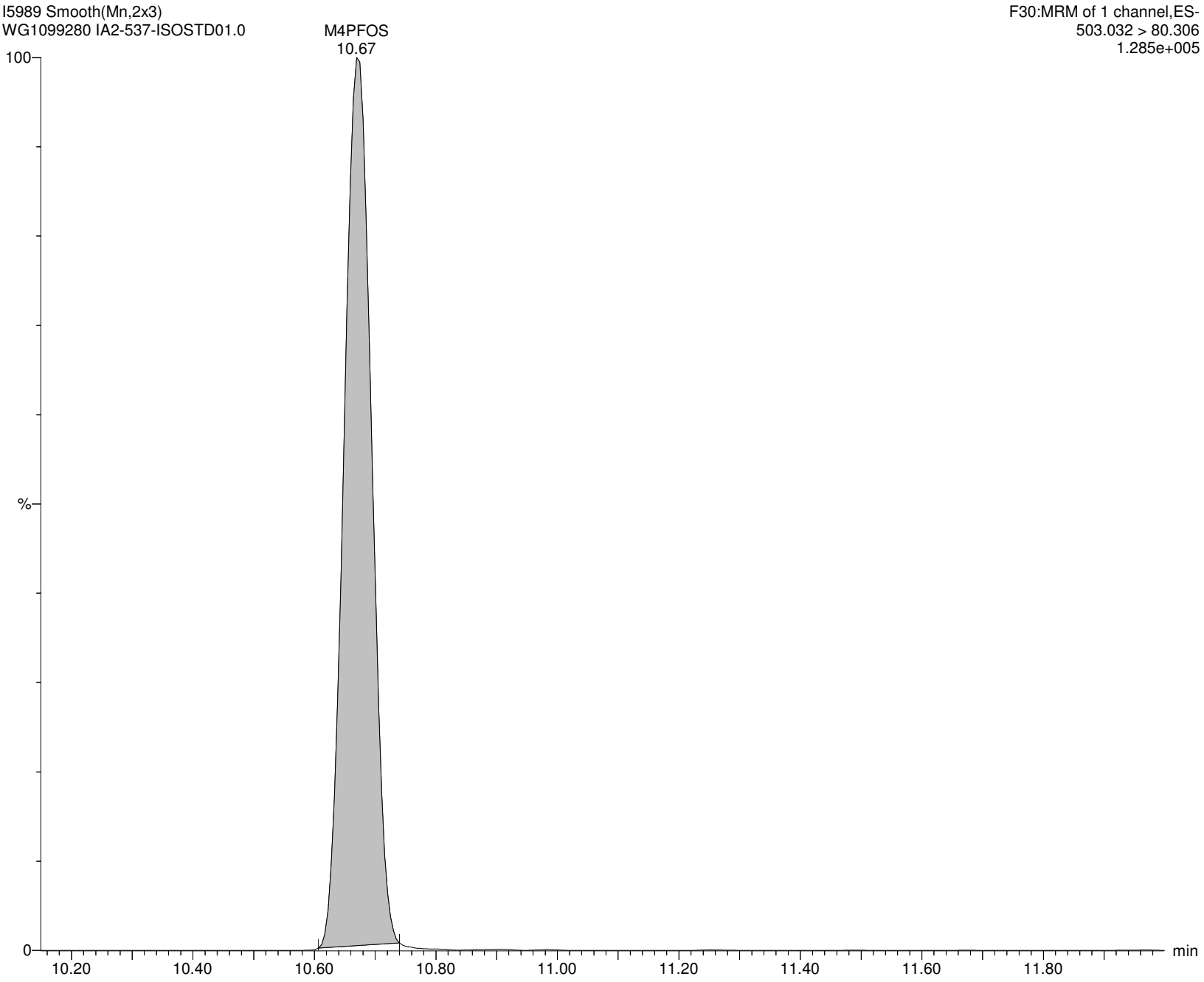

all concentration units in (ng/mL)

Alpha Analytical Inc.
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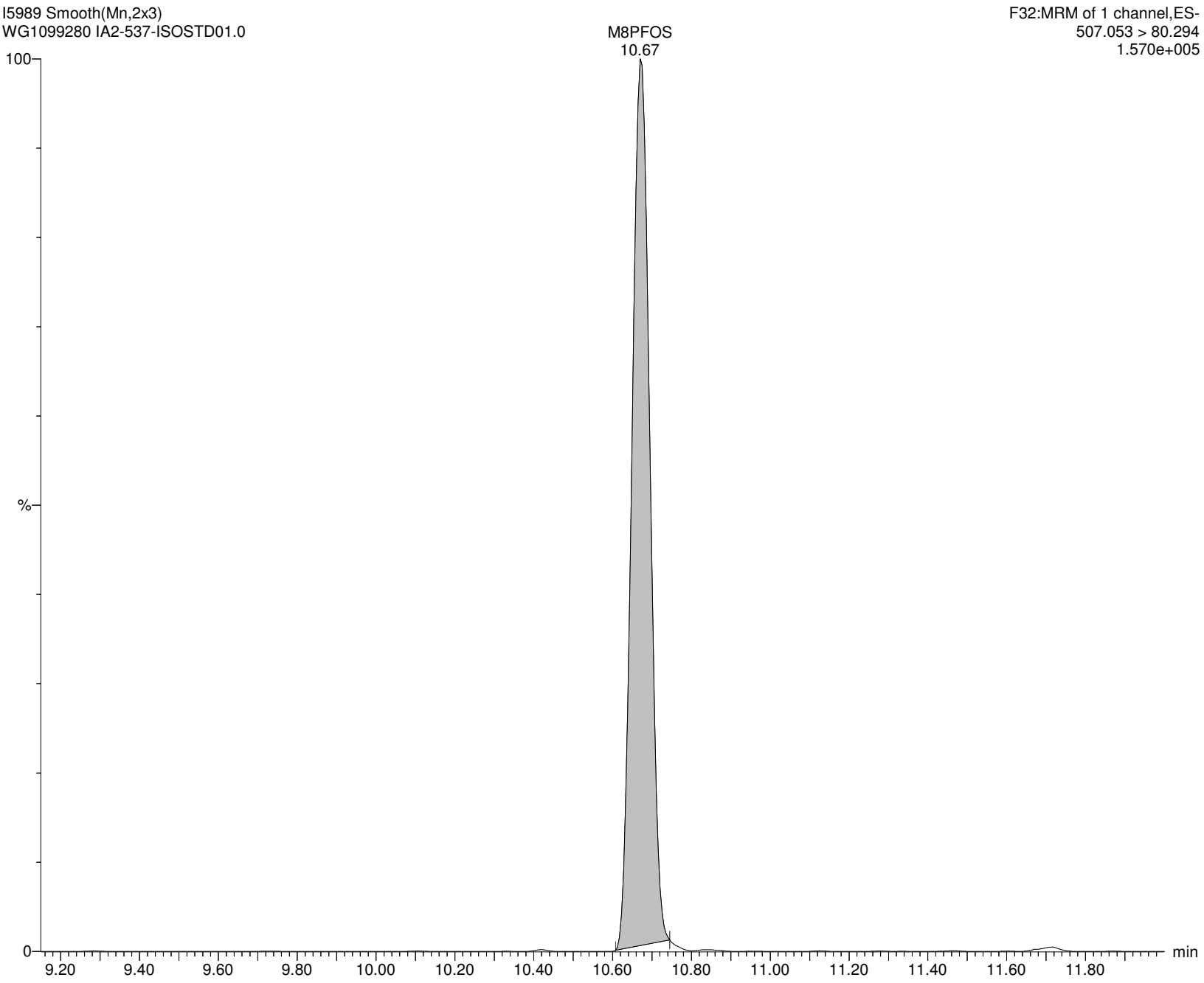
M8PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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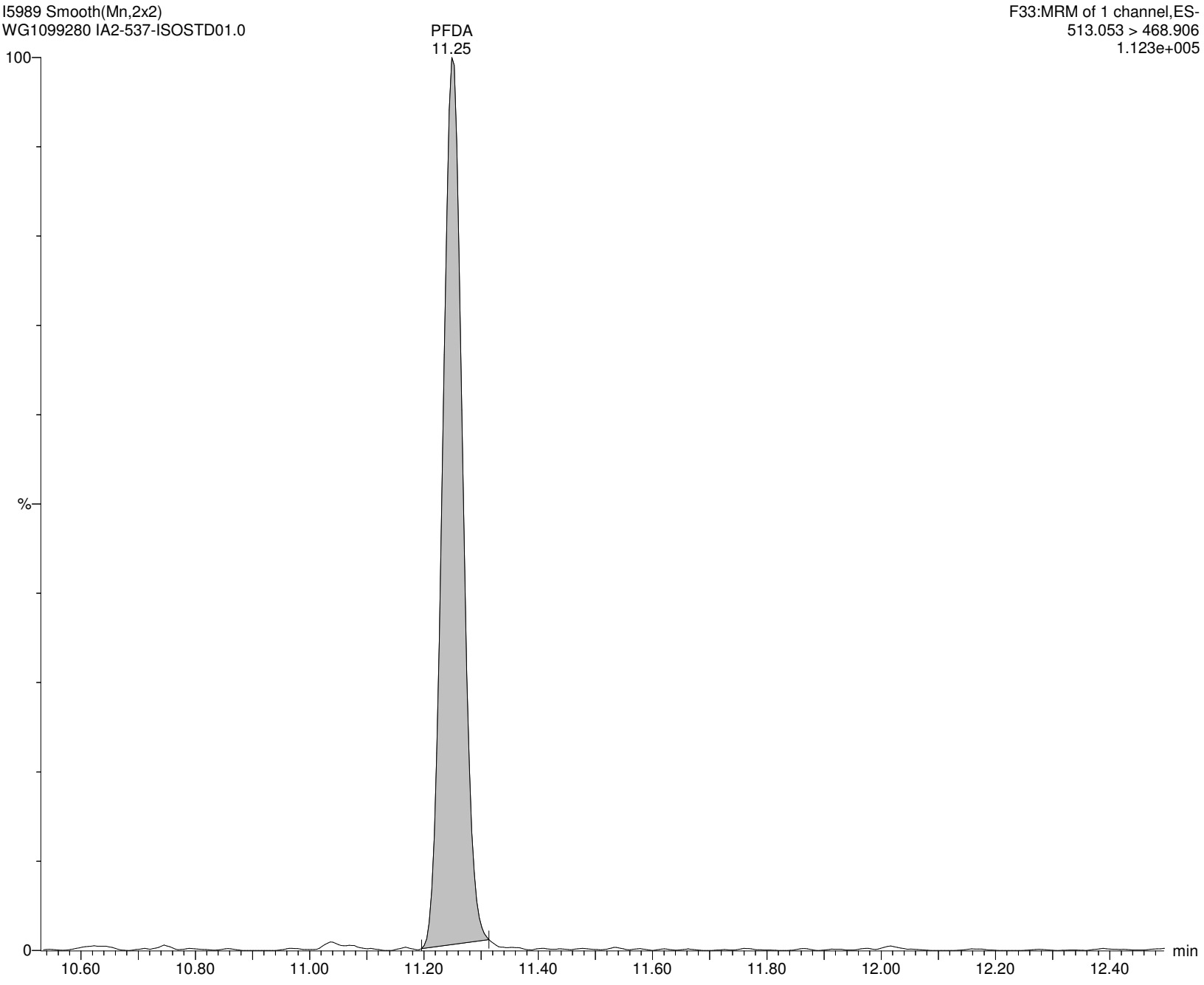

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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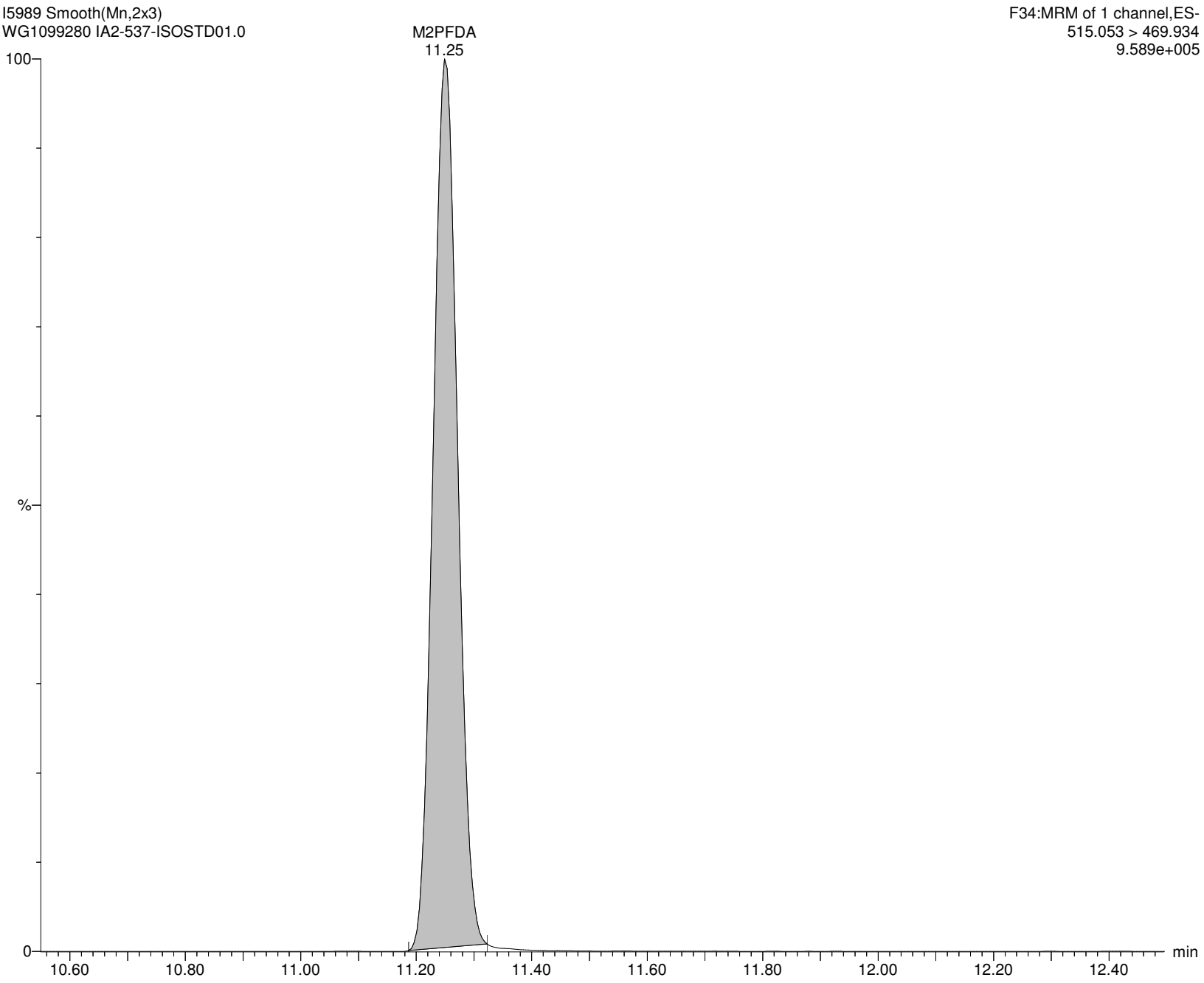
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:46 Eastern Daylight Time

Name: I5989
ID: IA2-537-ISOSTD01.0
Date: 21-Mar-2018
Time: 16:08:46
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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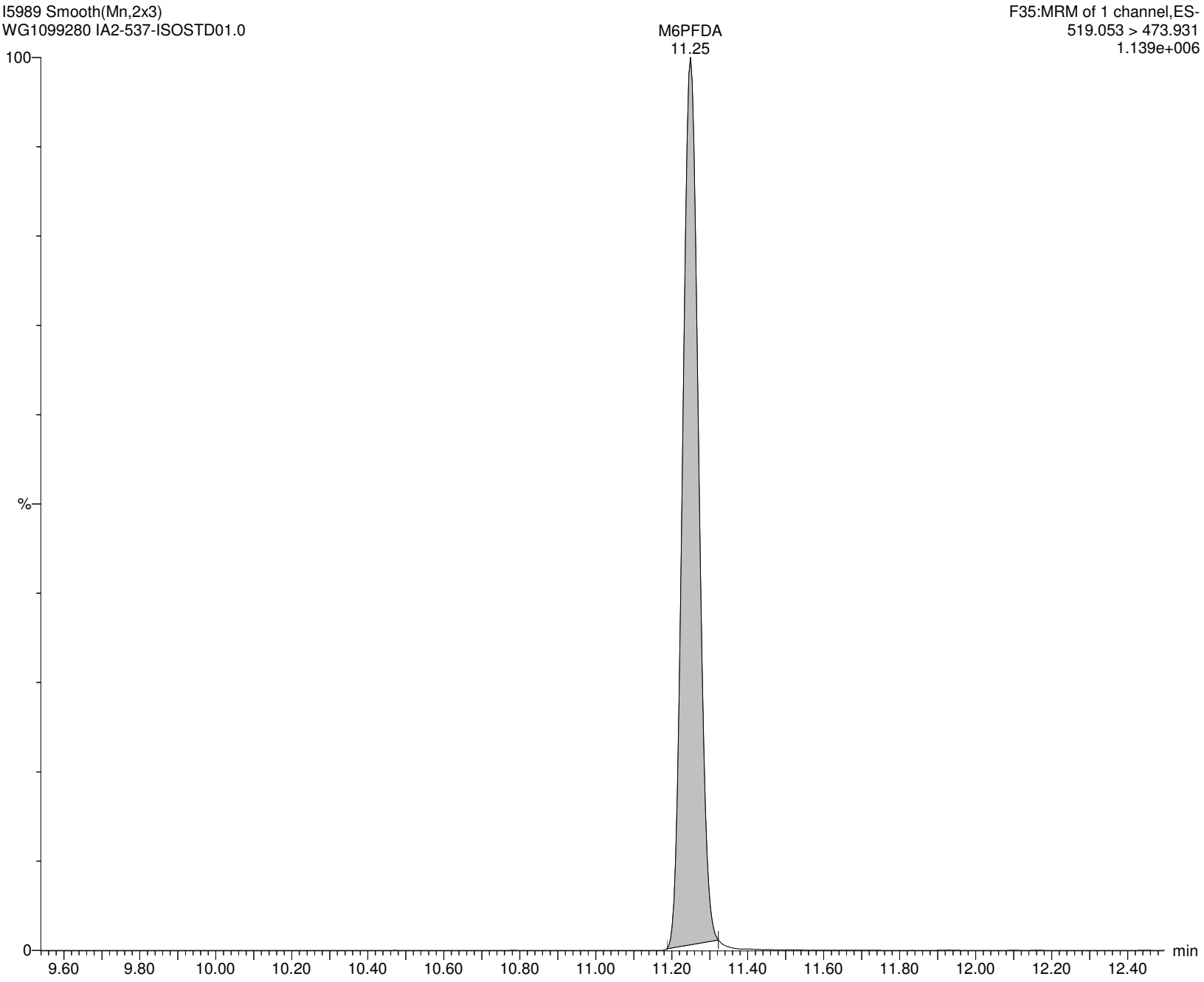

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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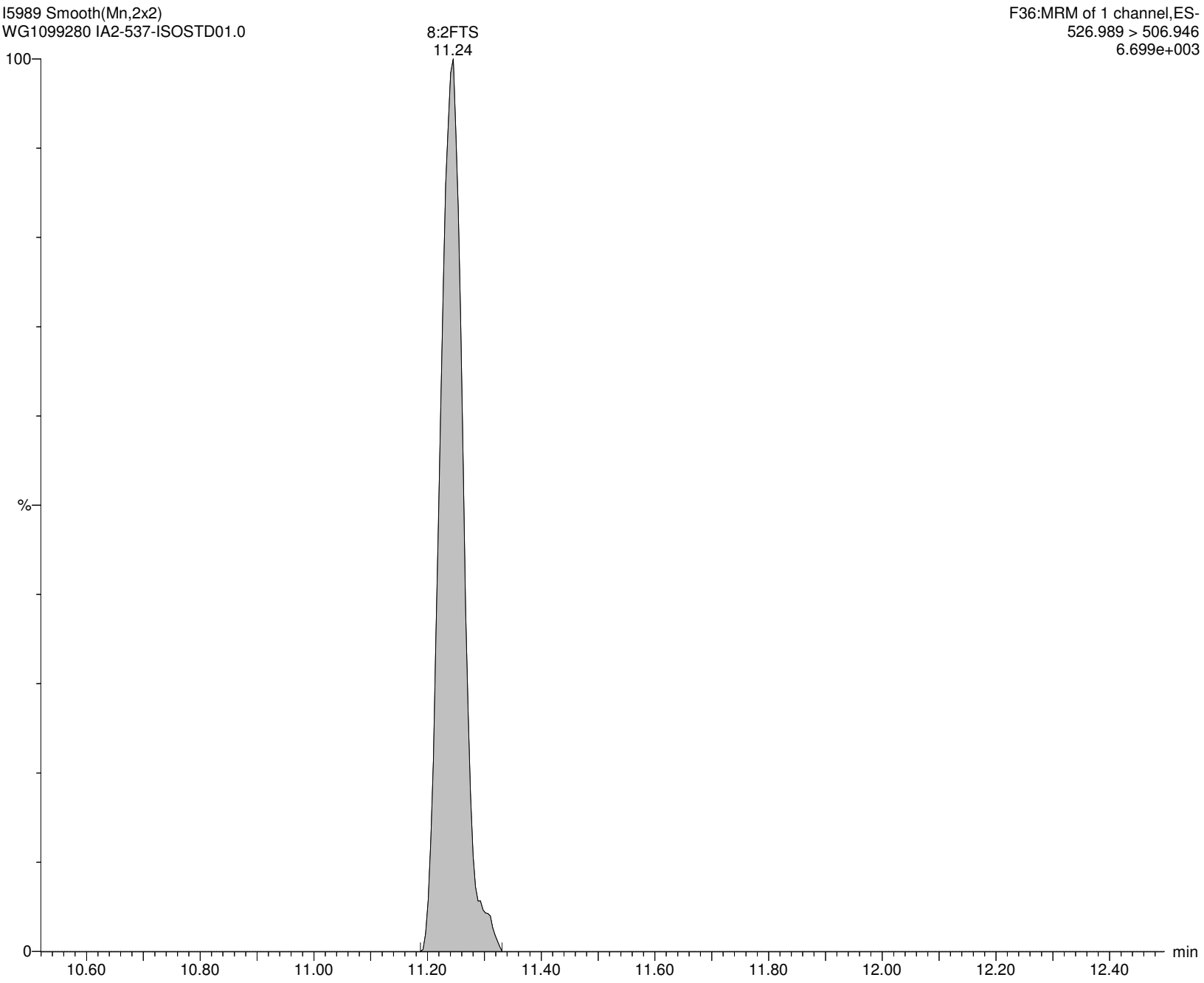

all concentration units in (ng/mL)

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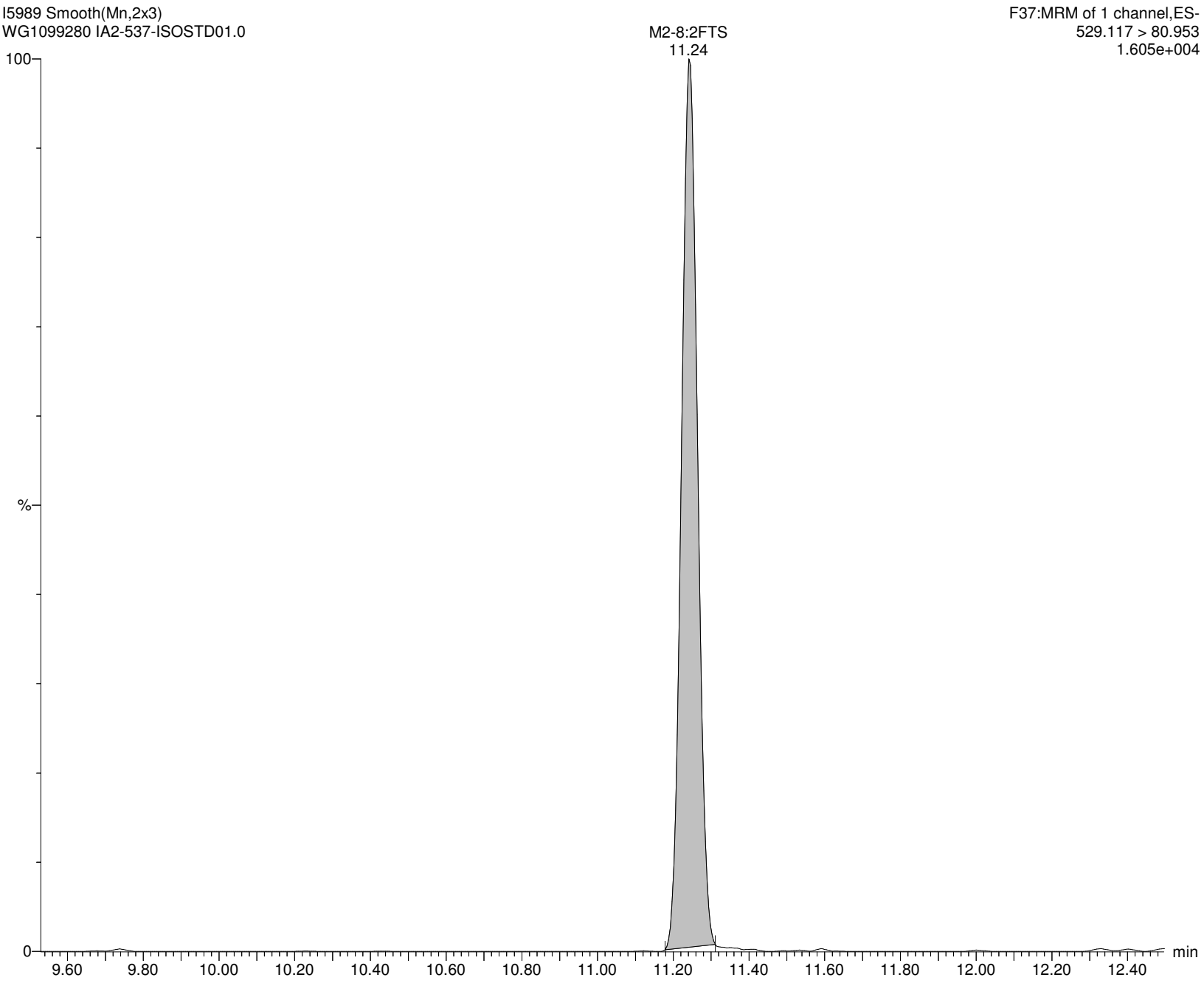

all concentration units in (ng/mL)

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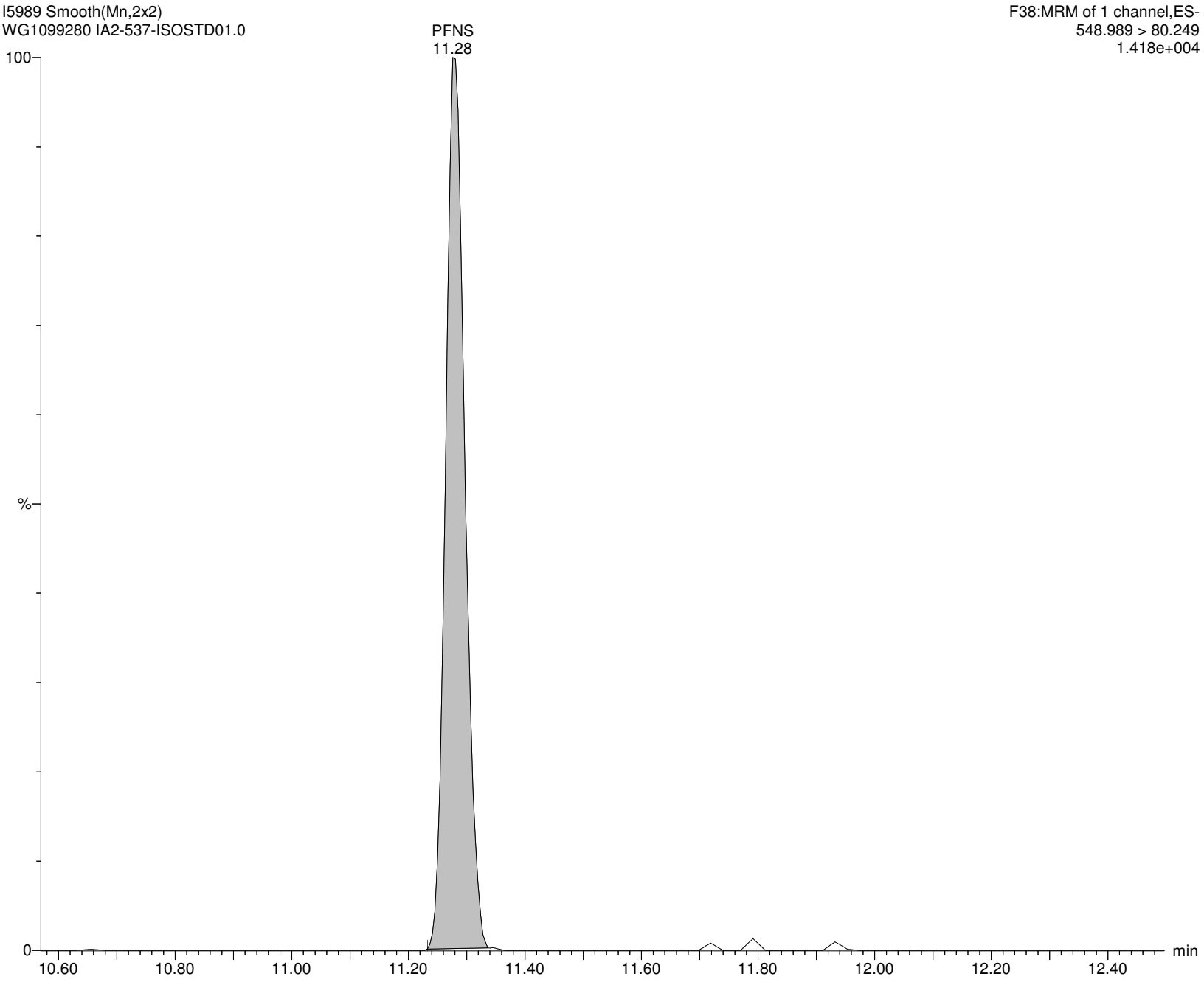

all concentration units in (ng/mL)

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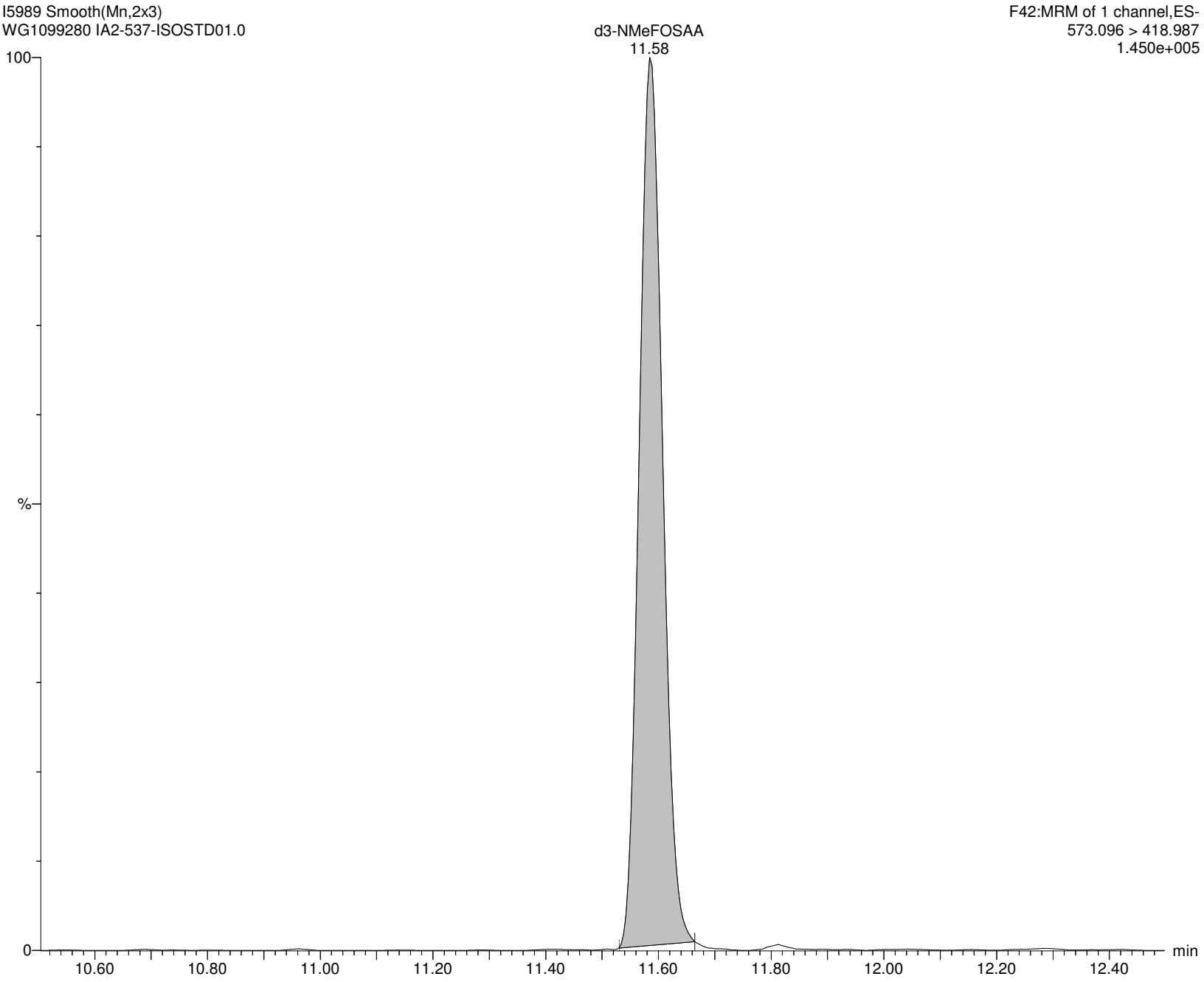

all concentration units in (ng/mL)

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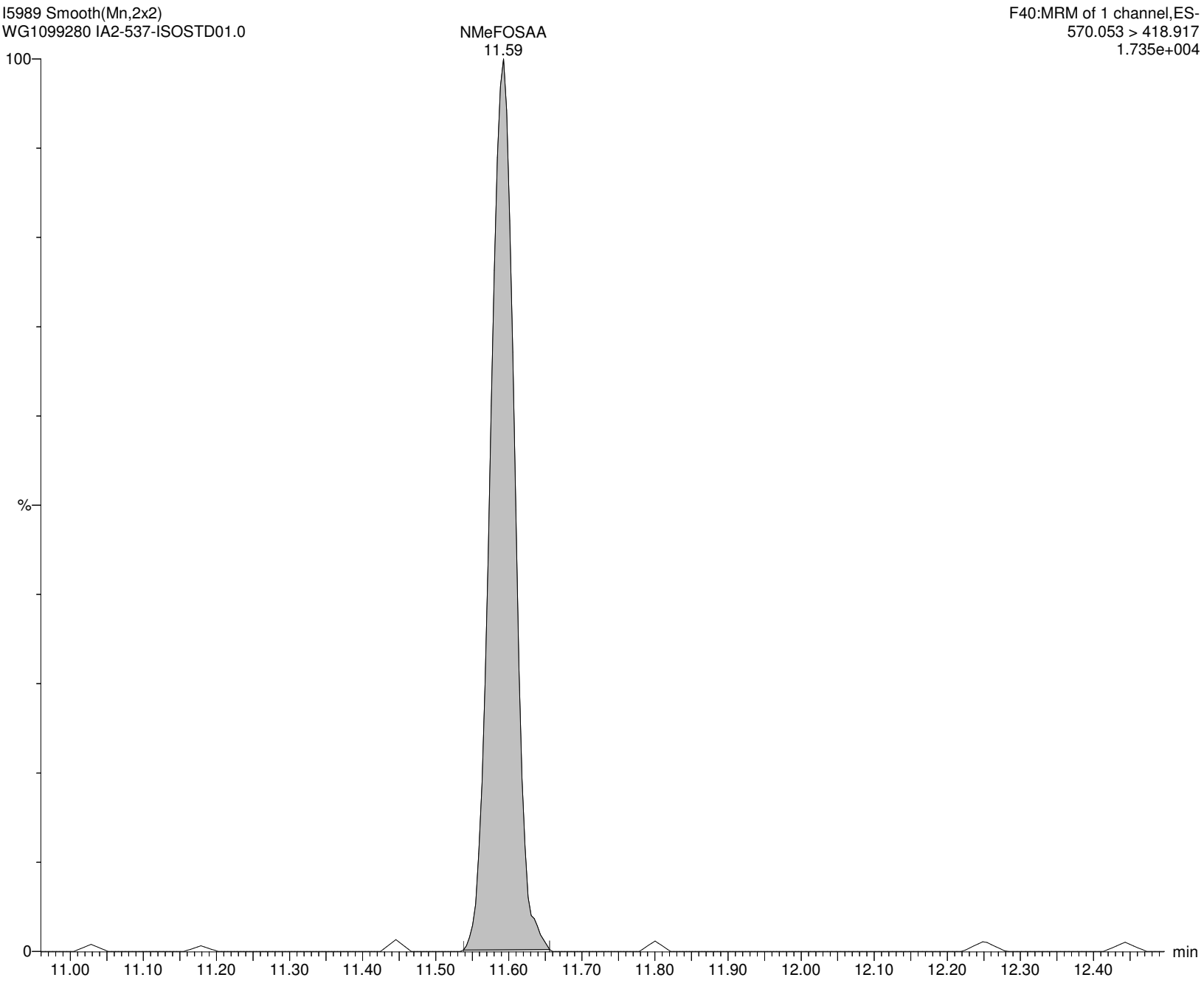

all concentration units in (ng/mL)

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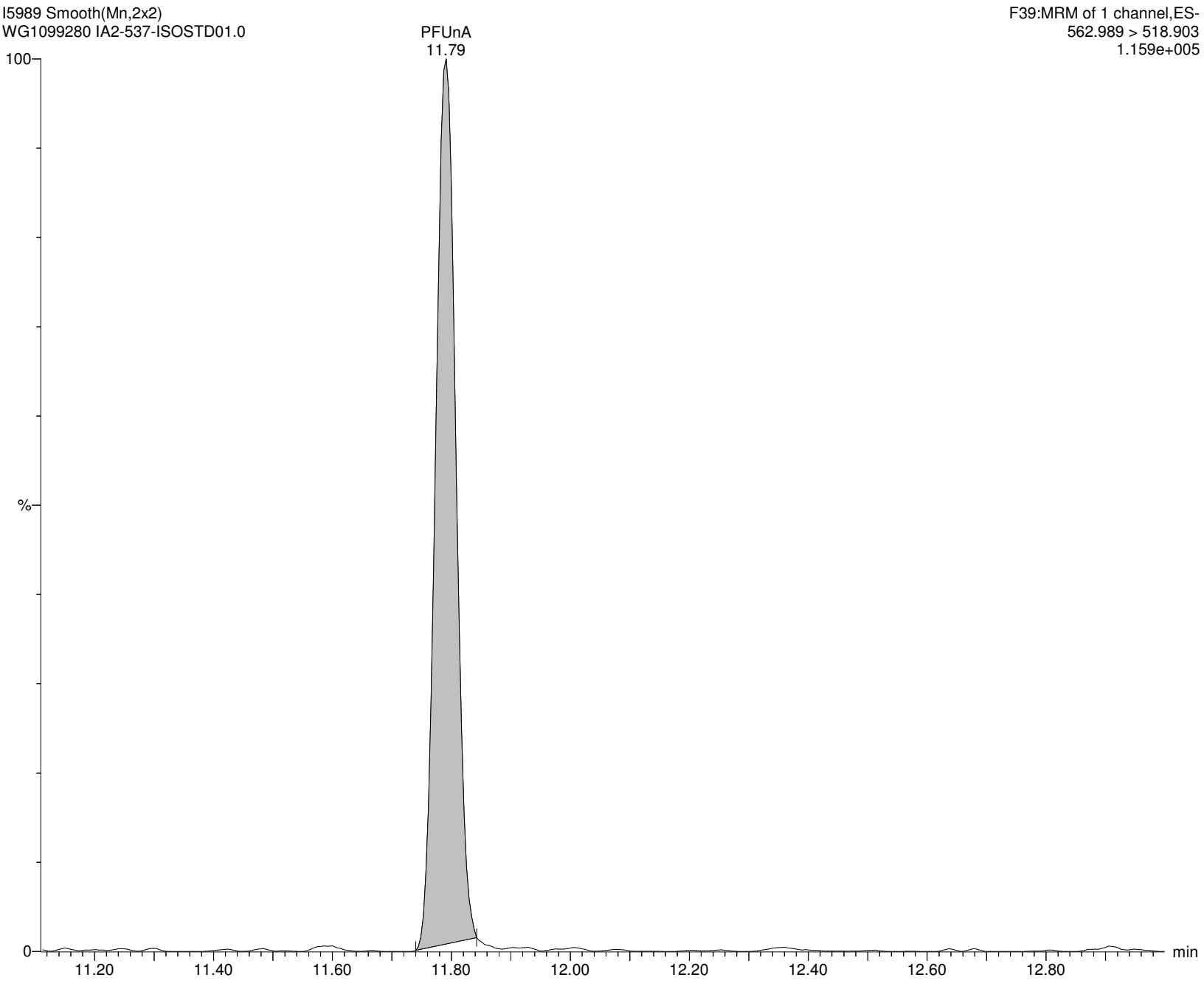

all concentration units in (ng/mL)

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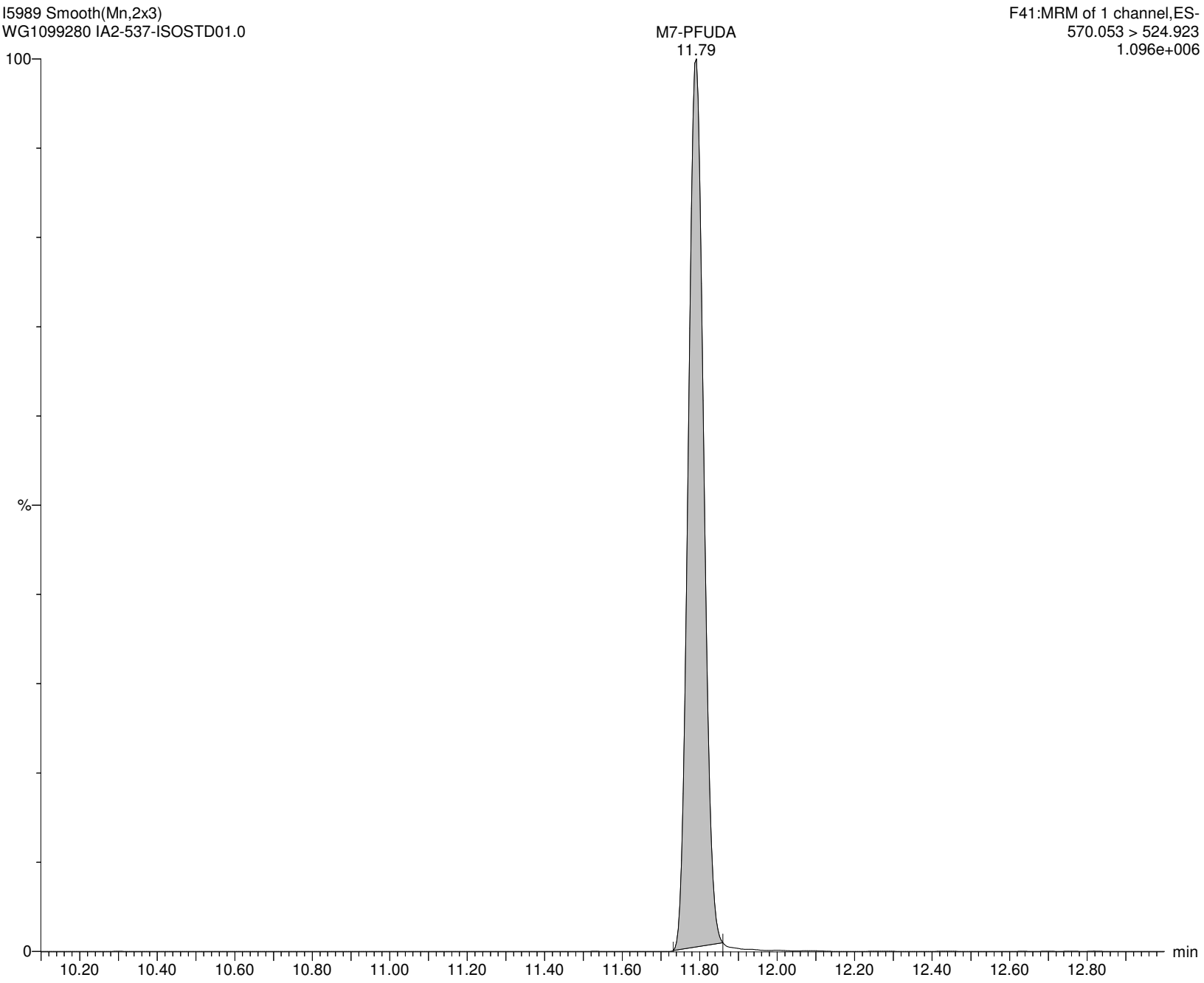

all concentration units in (ng/mL)

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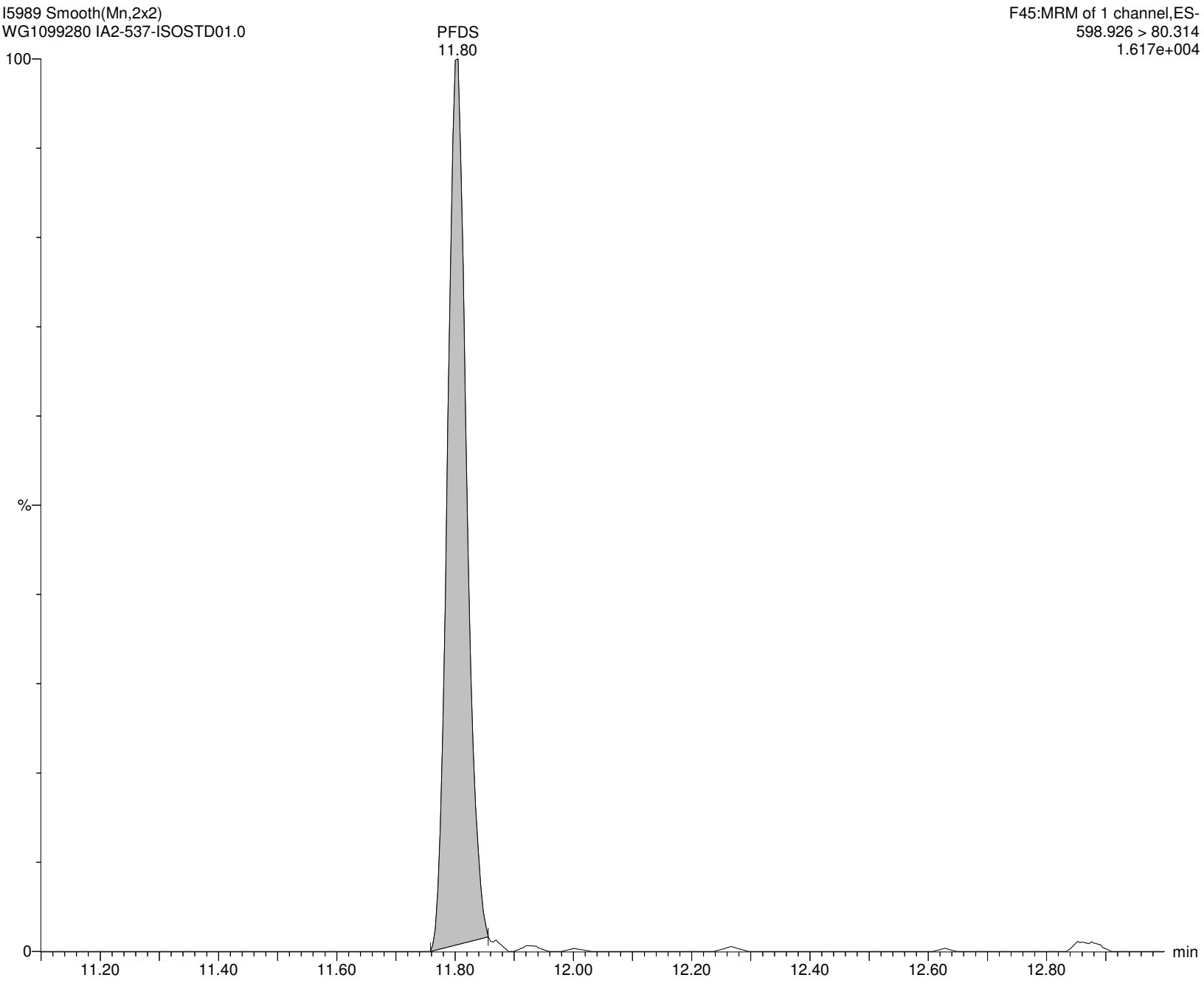

all concentration units in (ng/mL)

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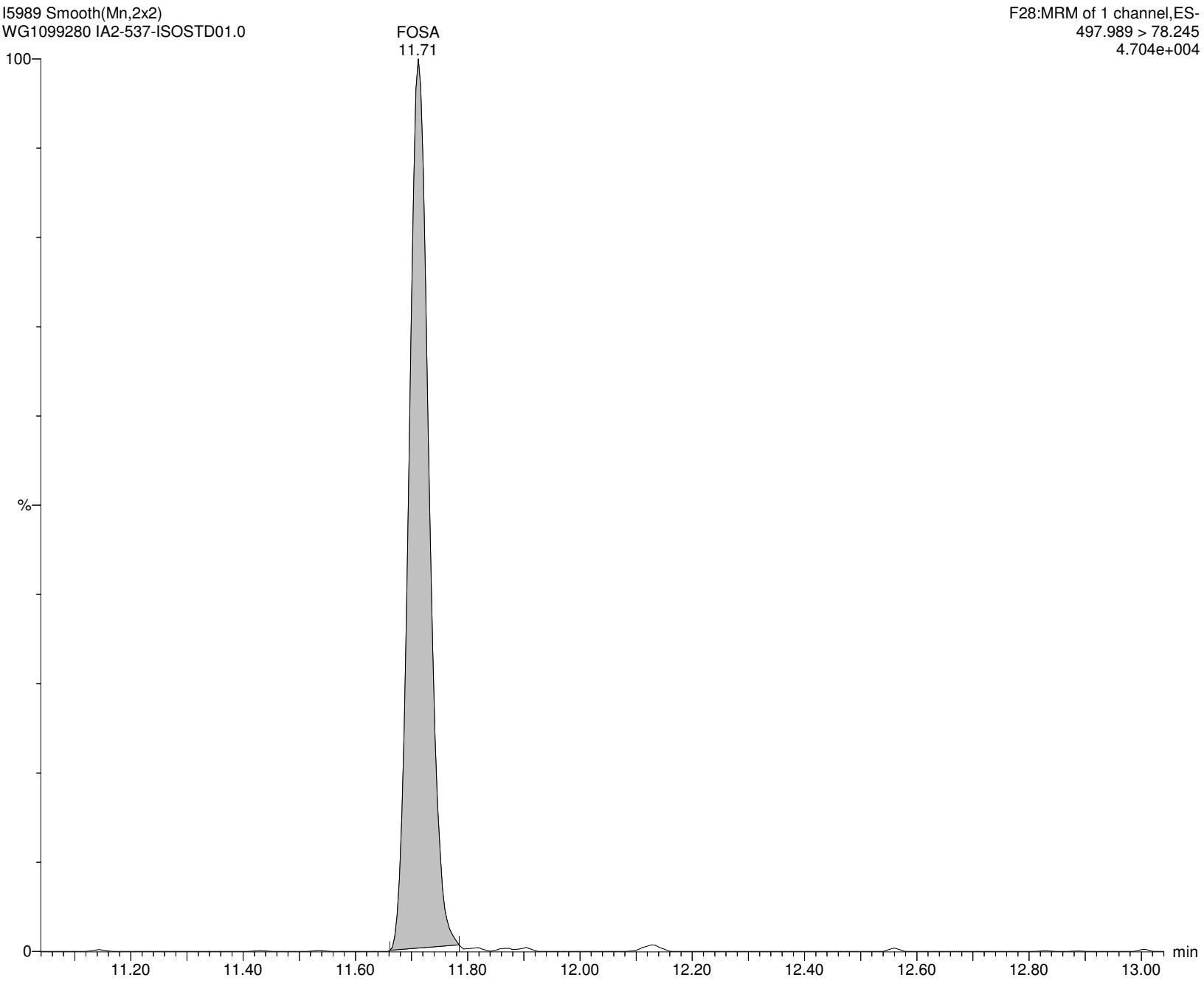

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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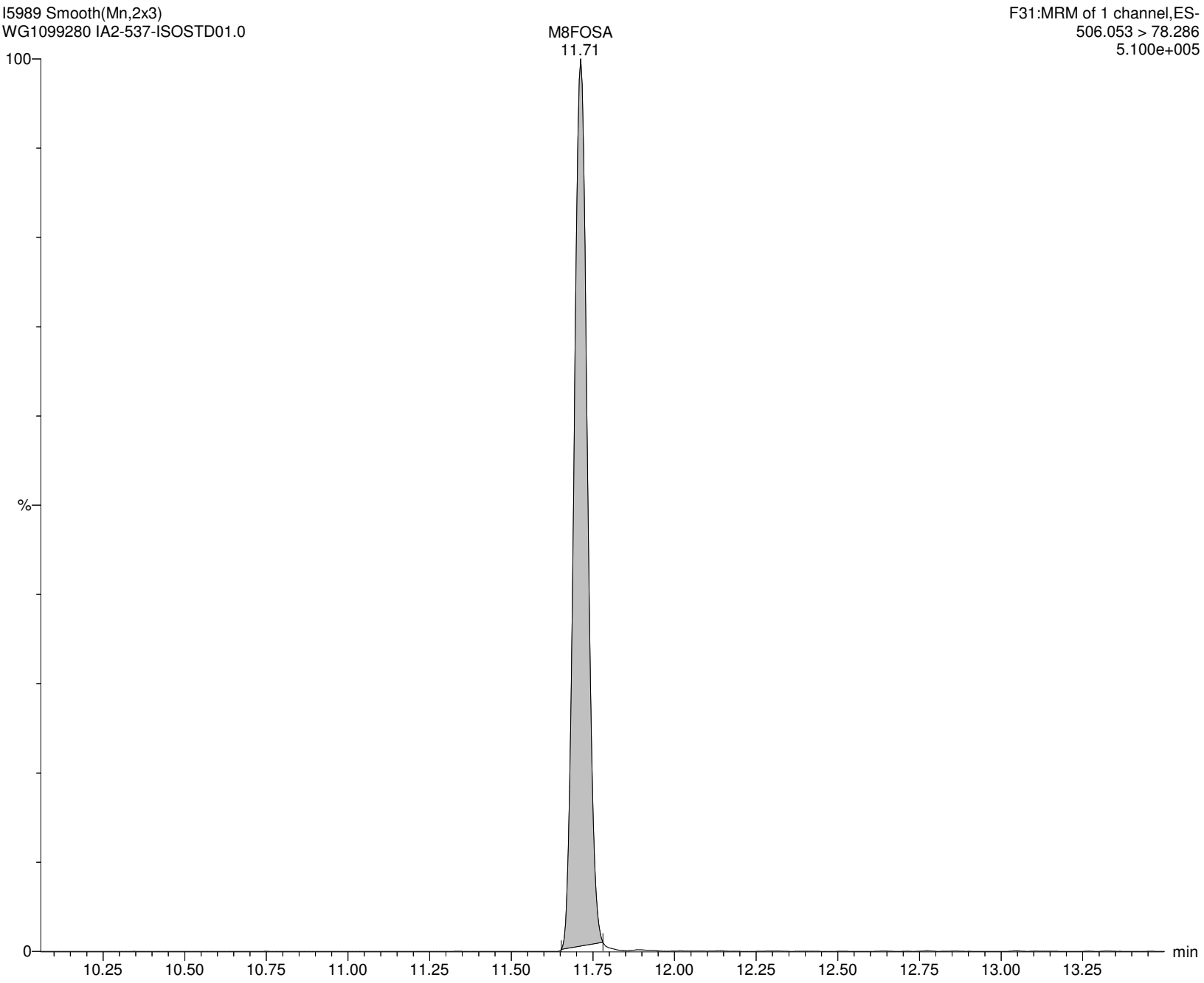

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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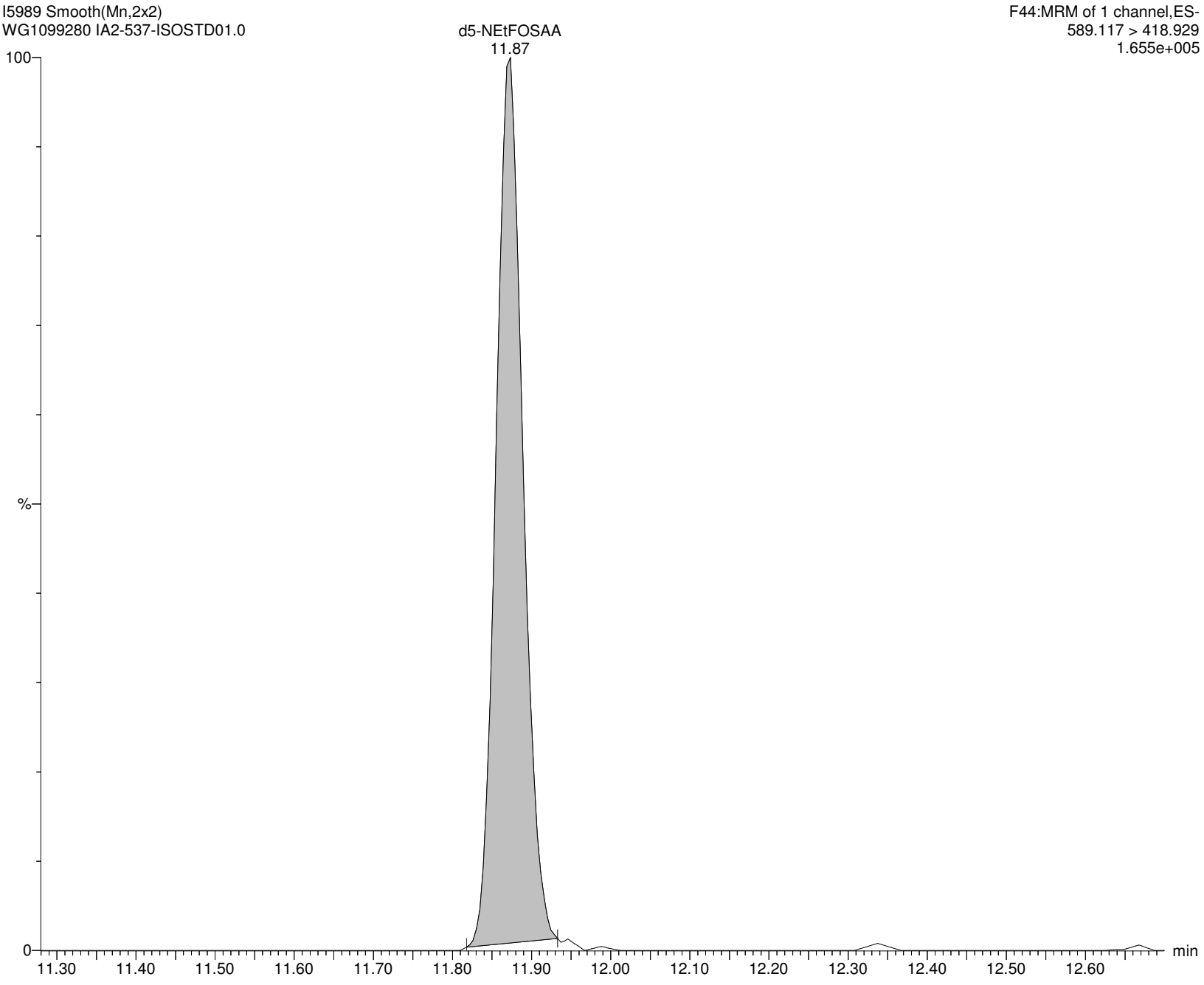

all concentration units in (ng/mL)

Alpha Analytical Inc.
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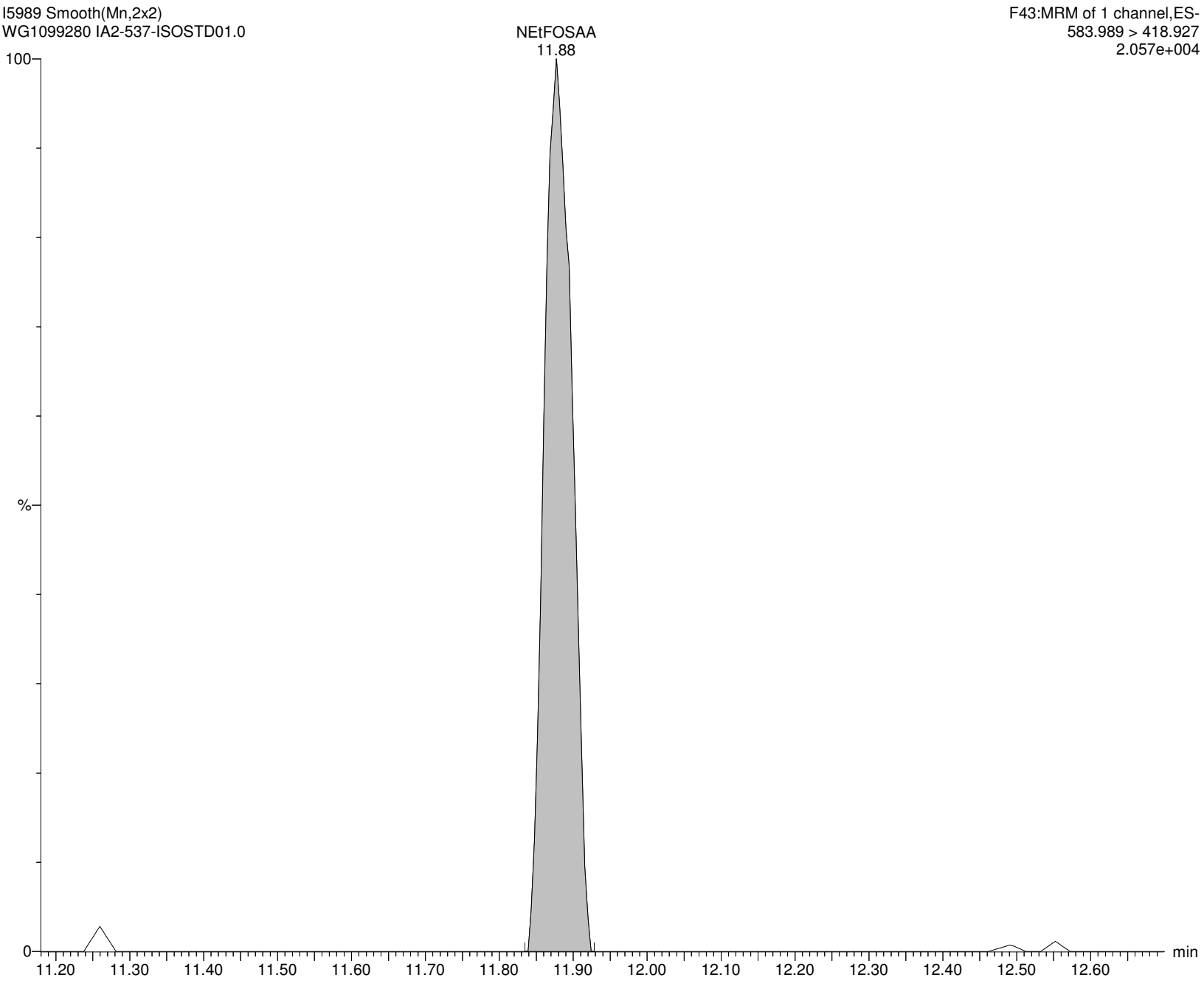

all concentration units in (ng/mL)

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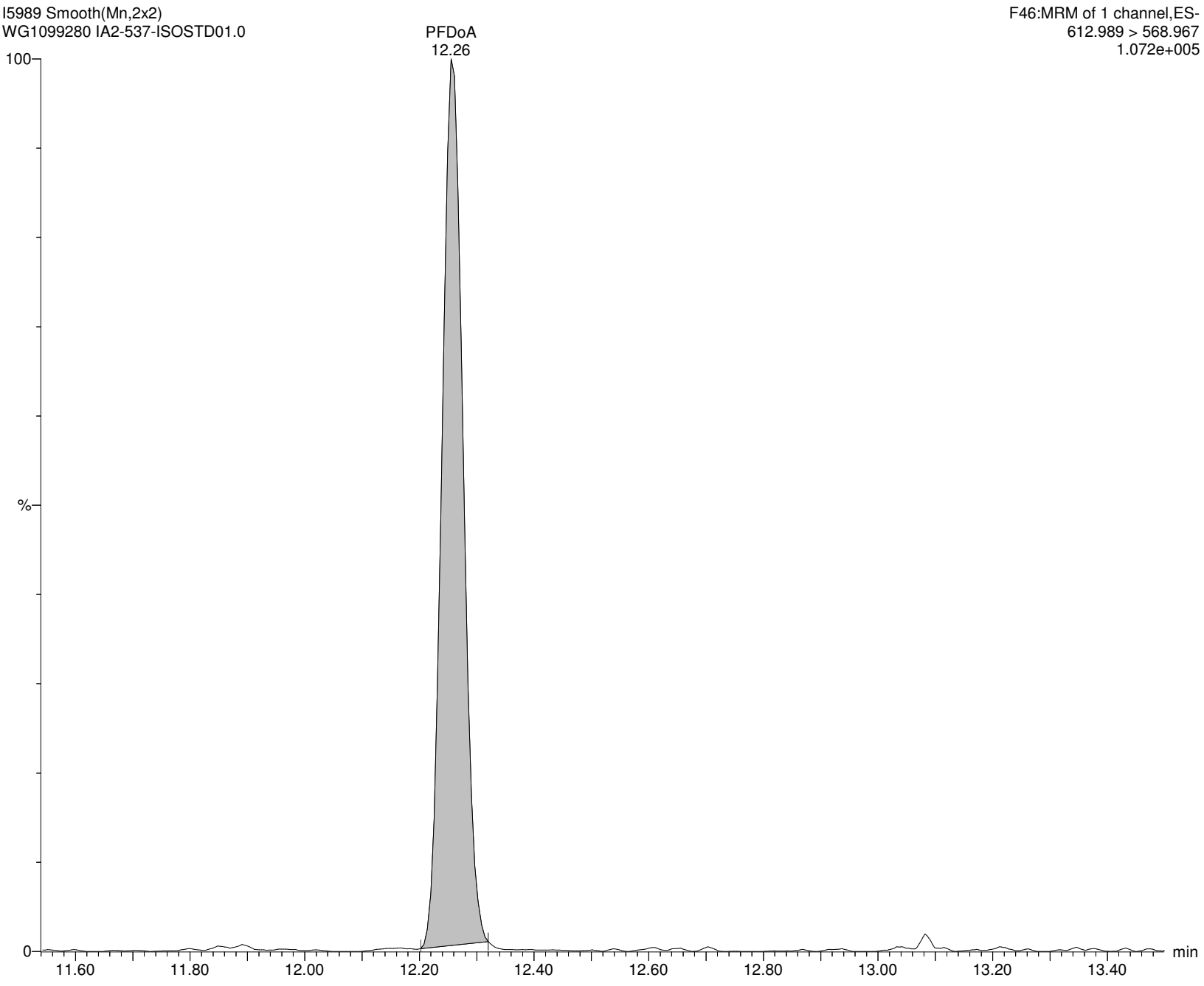

all concentration units in (ng/mL)

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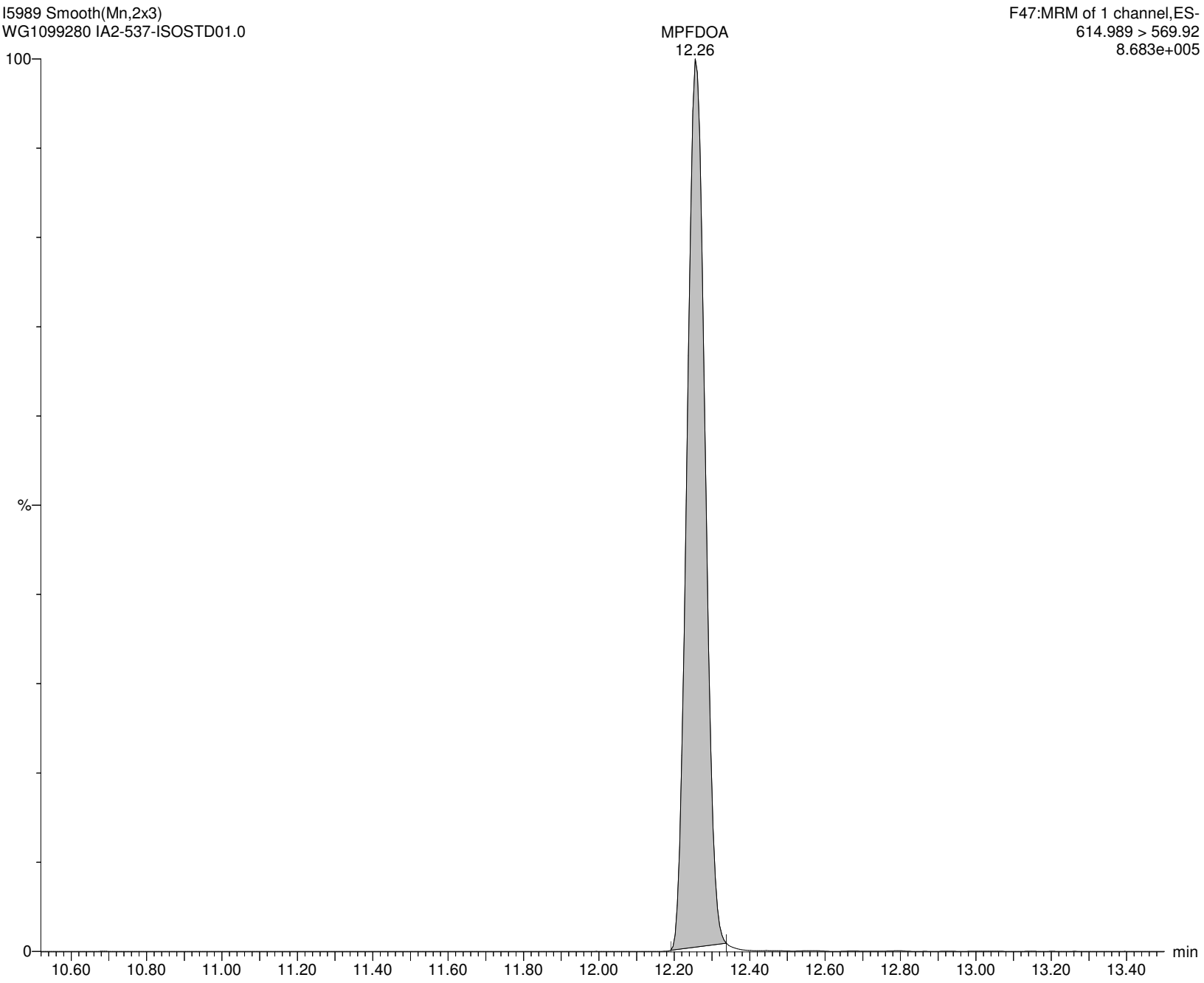

all concentration units in (ng/mL)

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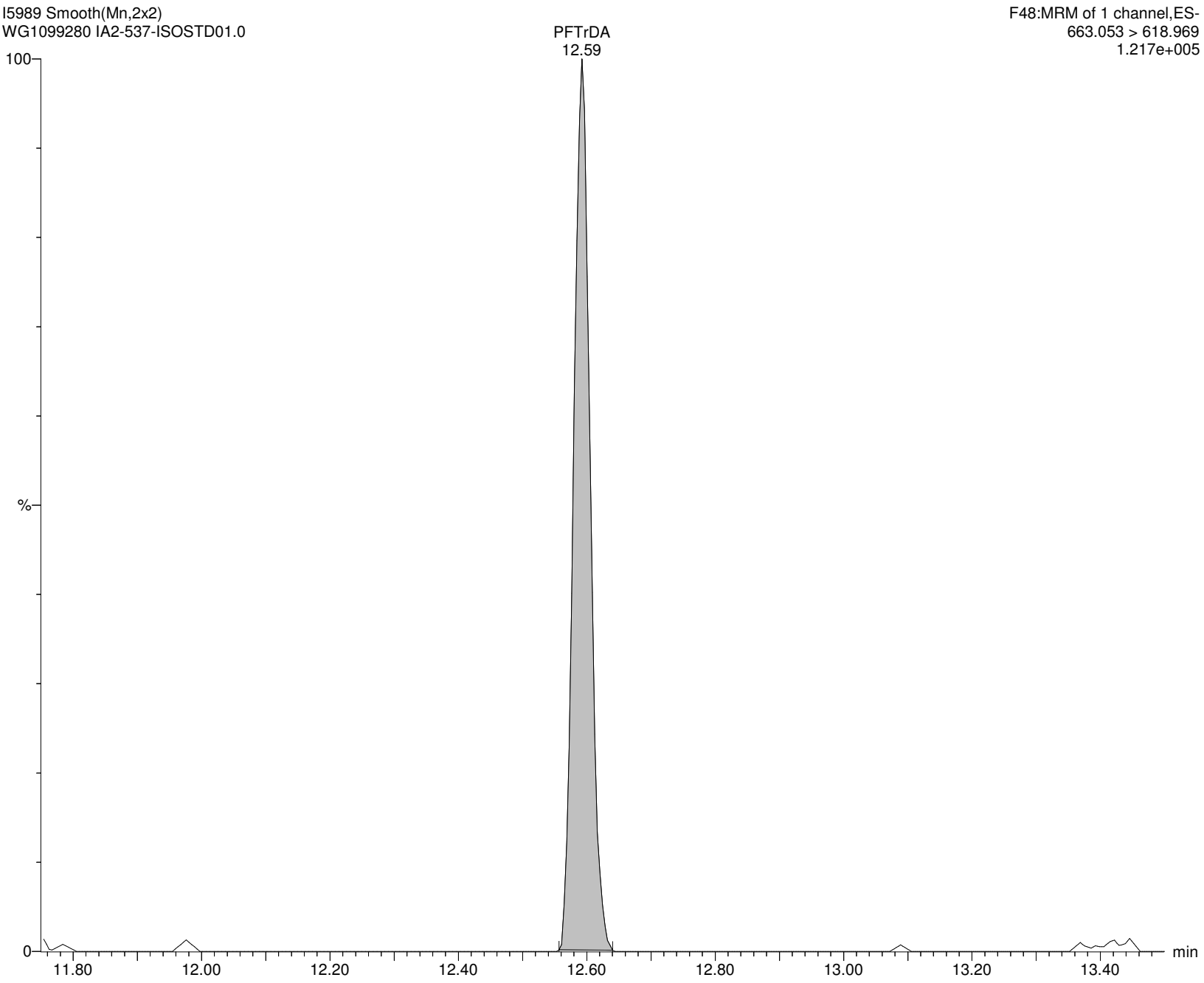

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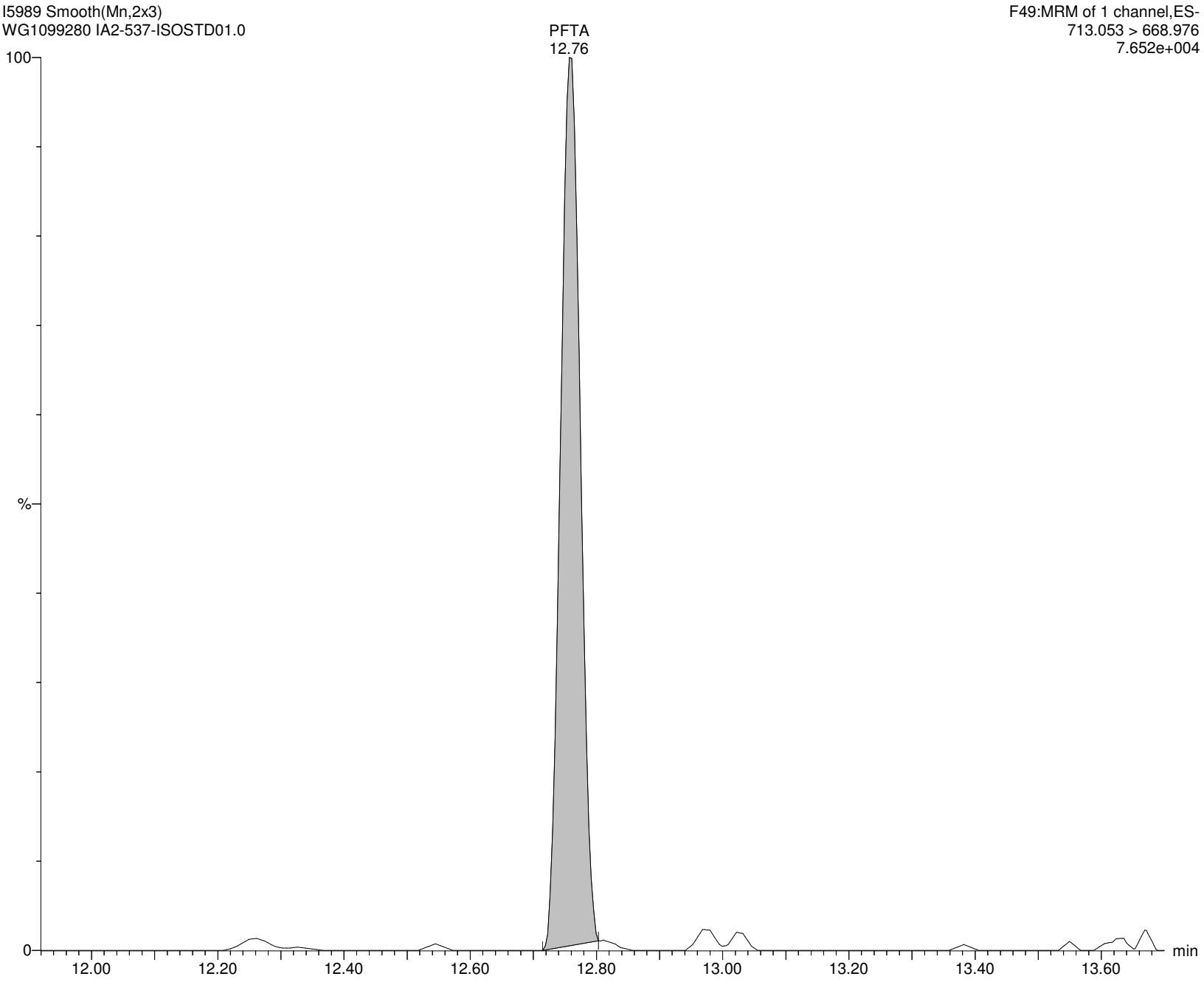

all concentration units in (ng/mL)

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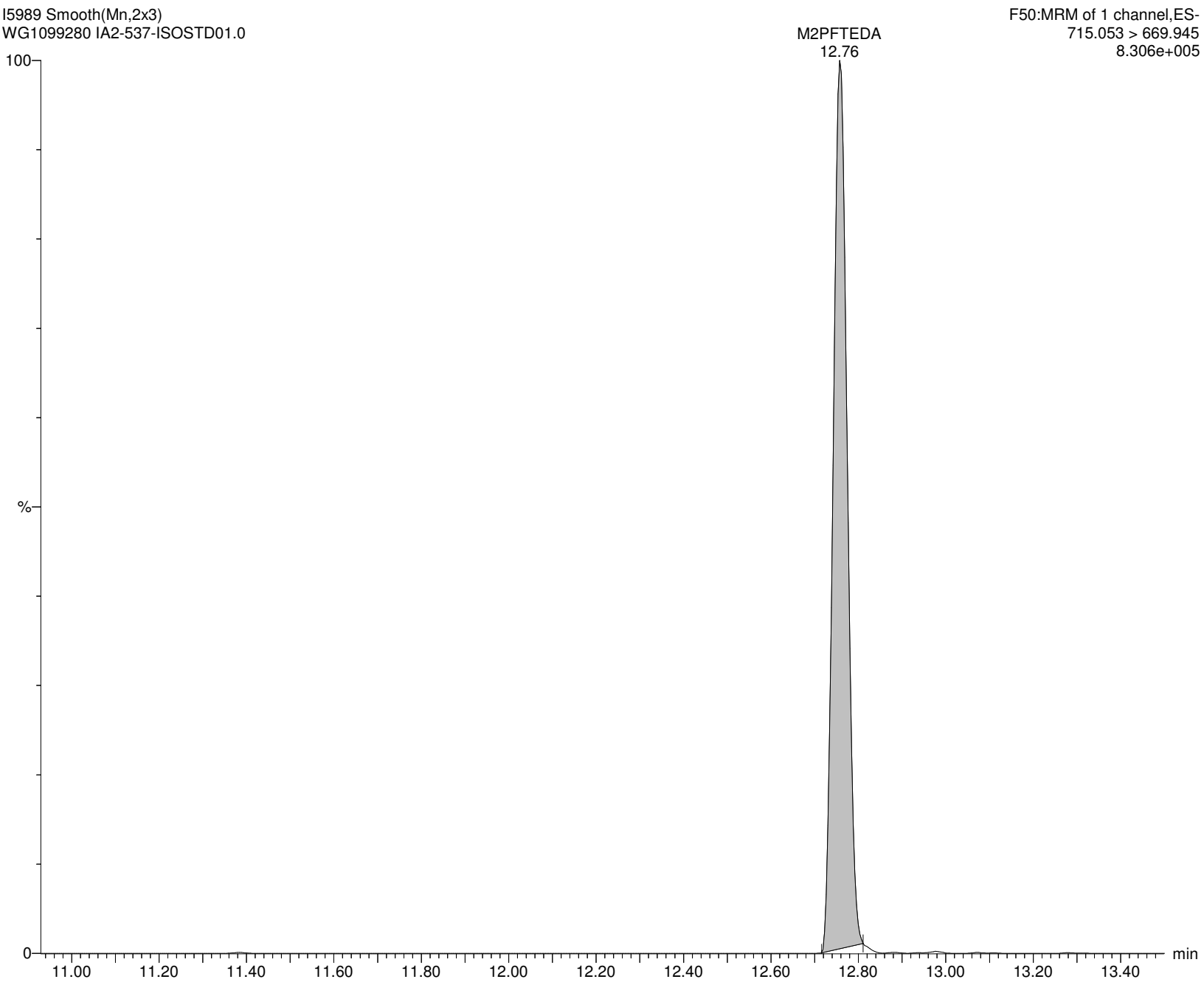

all concentration units in (ng/mL)

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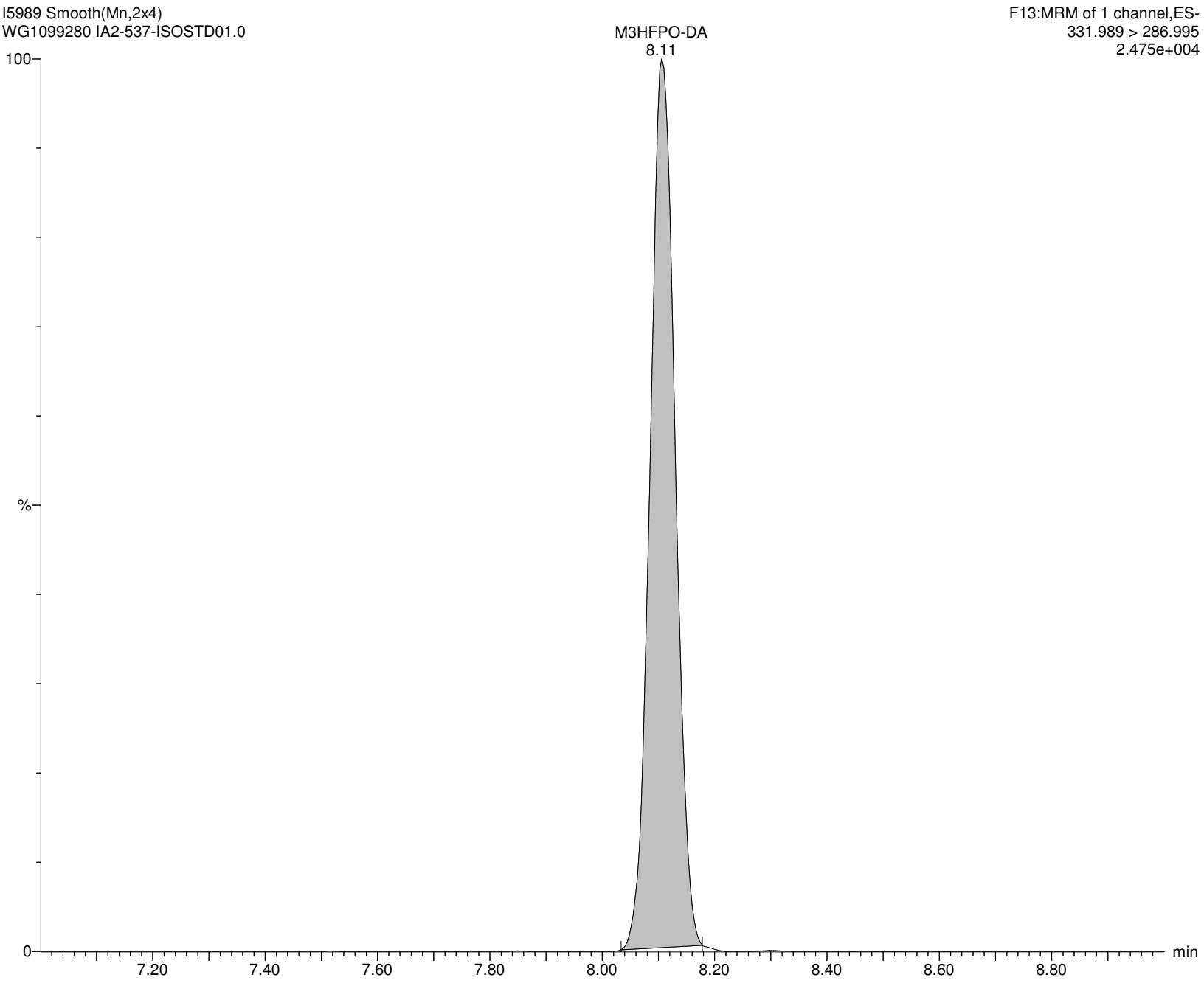
M3HFPO-DA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:46 Eastern Daylight Time

Name: I5989
ID: IA2-537-ISOSTD01.0
Date: 21-Mar-2018
Time: 16:08:46
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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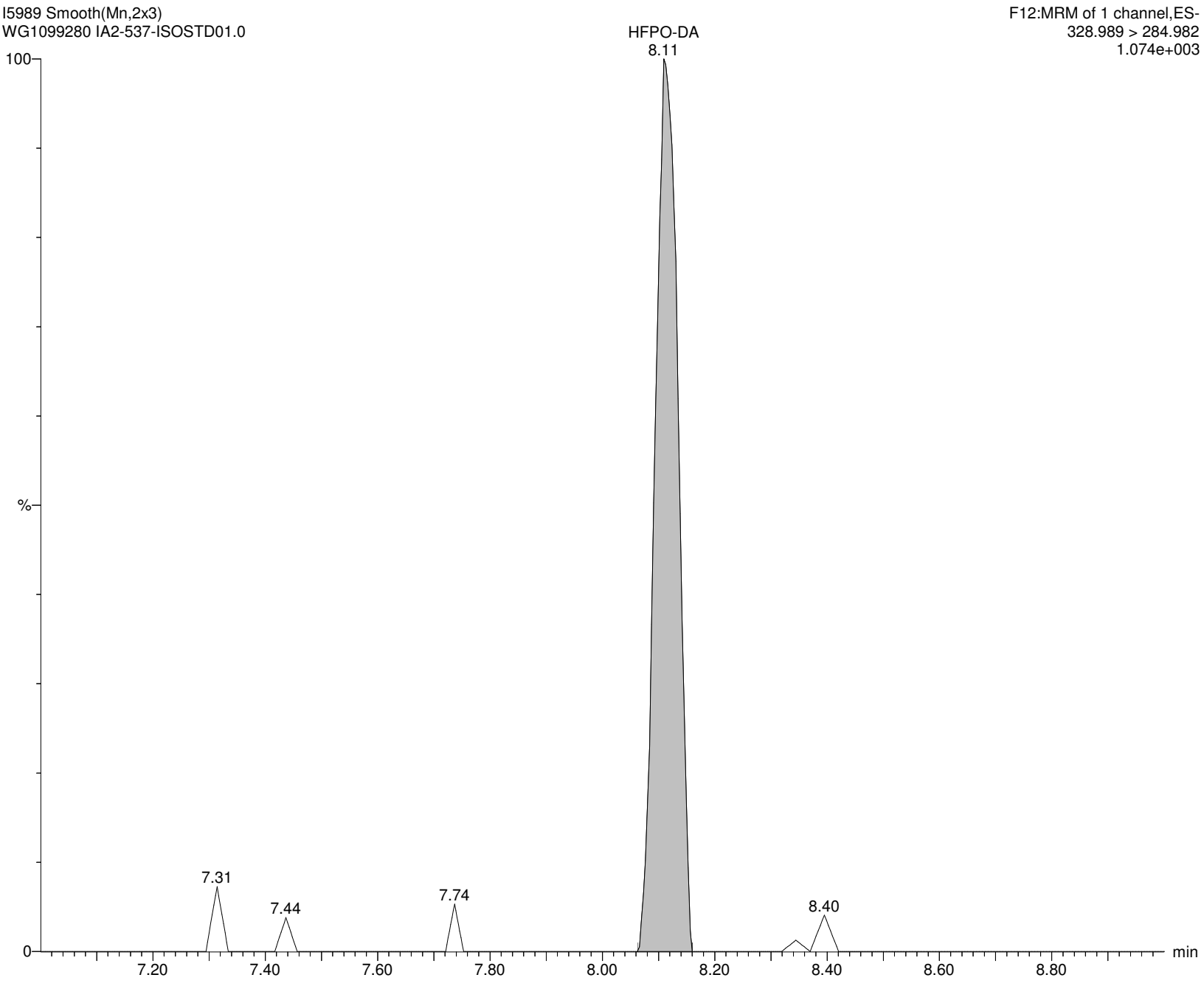

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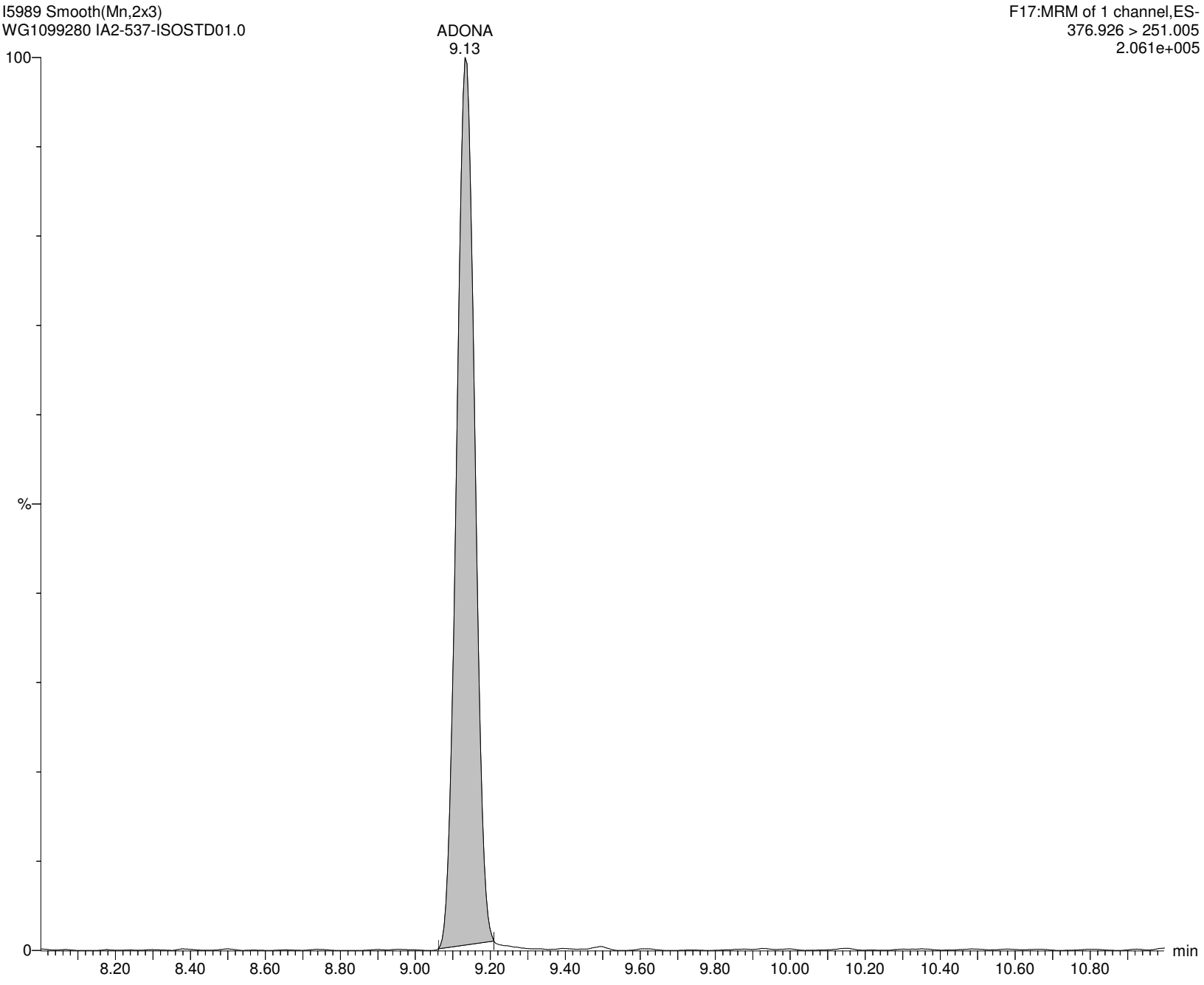

all concentration units in (ng/mL)

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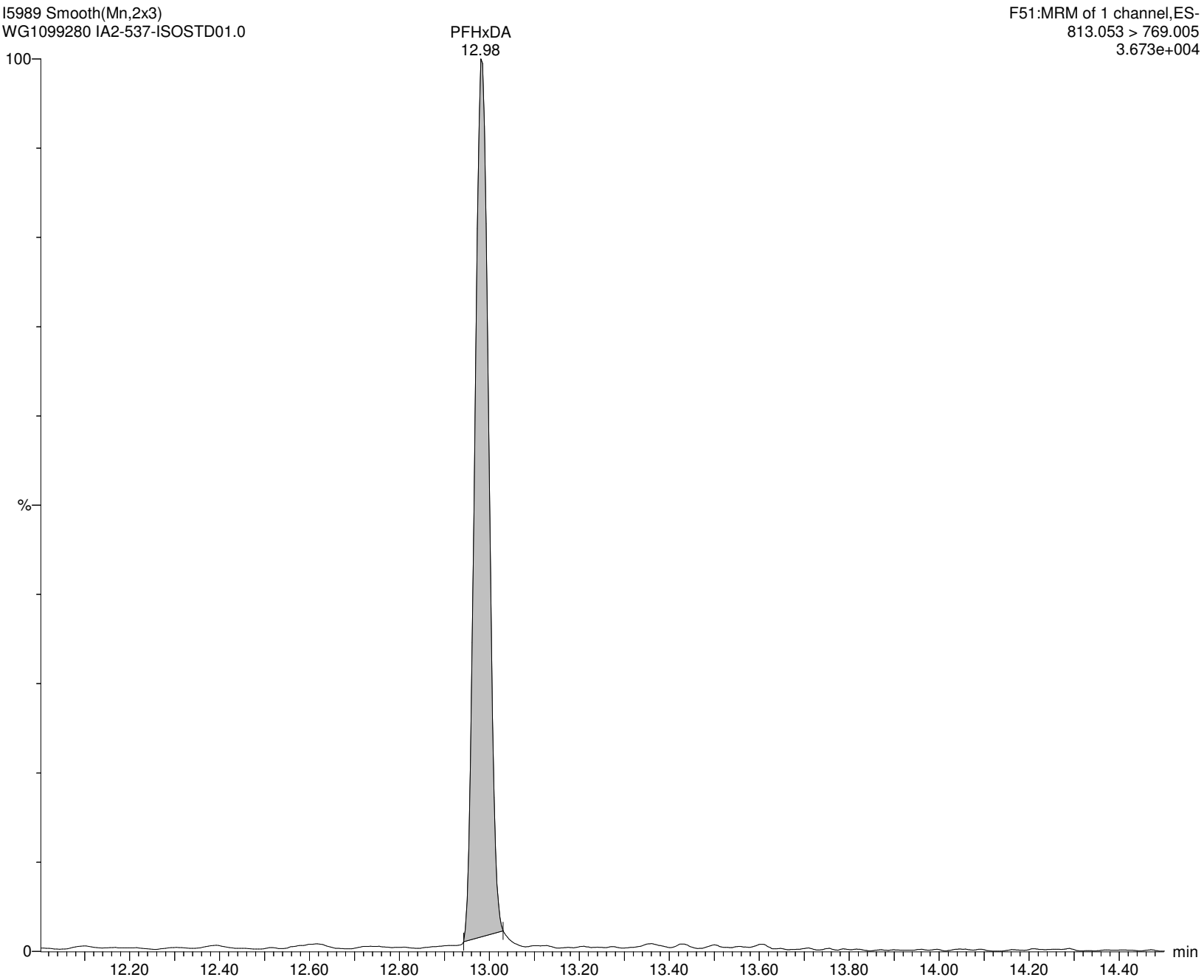

all concentration units in (ng/mL)

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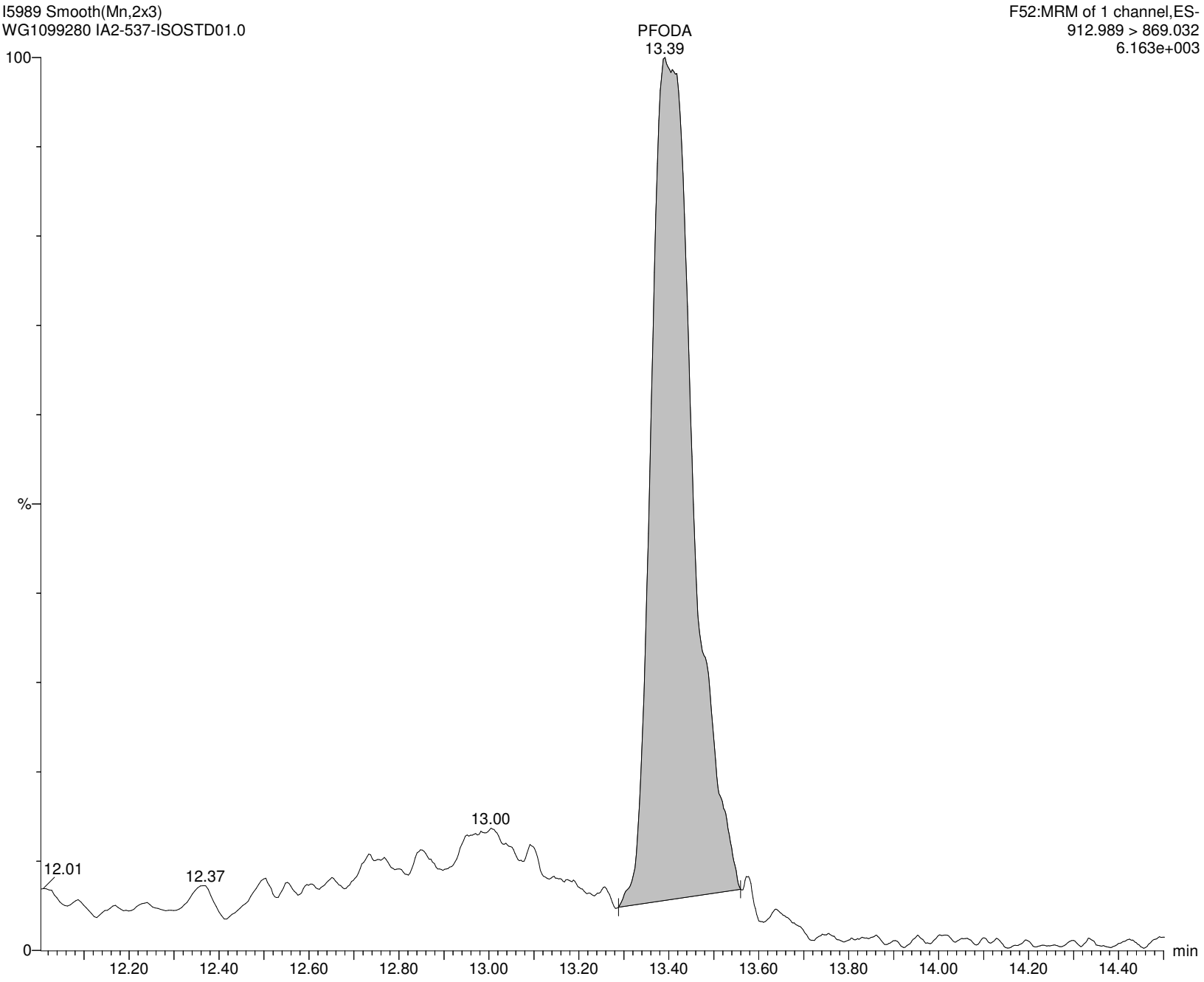

all concentration units in (ng/mL)

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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

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ID: IA2-537-ISOSTD02.0
Name: I5990
Date: 21-Mar-2018
Time: 16:25:16
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.27	212.926 > 169.111	8219		2.000		na	100.0
2	M3PFBA	INT STD	2.26	215.926 > 172.122	50370		10.093		na	100.9
3	MPFBA	INT STD	2.26	216.926 > 172.137	55827		9.918		na	99.2
4	PFPeA	2706-90-3	5.67	262.926 > 219.002	9187		2.010		na	100.5
5	M5PFPEA	INT STD	5.67	TIC	58122		10.018		na	100.2
6	PFBS	375-73-5	6.40	298.989 > 80.295	1710		1.733		na	97.9
7	M3PFBS	INT STD	6.41	301.989 > 80.254	10031		9.501		na	95.0
8	4:2FTS	757124-72-4	7.59	326.926 > 306.957	772		1.845		na	98.7
9	M2-4:2FTS	INT STD	7.59	328.989 > 80.973	1255		9.213		na	92.1
10	PFHxA	307-24-4	7.66	312.989 > 269.028	11521		2.074		na	103.7
11	M5PFHxA	INT STD	7.66	317.989 > 273.045	61459		9.855		na	98.5
12	PFPeS	2706-91-4	7.99	348.926 > 80.251	1742		1.932		na	102.8
13	PFHpA	375-85-9	8.95	362.926 > 319.014	12766		2.028		na	101.4
14	M4PFHpA	INT STD	8.94	366.926 > 321.979	68485		9.669		na	96.7
15	br-PFHxS	355-46-4	8.87	398.926 > 80.295	261		0.289		na	76.1
16	L-PFHxS	355-46-4	9.11	398.926 > 80.295	1289		1.464		na	90.4
17	PFHxS	355-46-4		398.926 > 80.295	1550		1.754		na	
18	M3PFHxS	INT STD	9.11	401.926 > 80.317	9329		9.605		na	96.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.88	412.989 > 368.9	13236		2.069		na	103.5
21	M2PFOA	INT STD	9.88	415.032 > 369.968	64792		10.470		na	104.7
22	PFOA	335-67-1		412.989 > 368.9	13236		2.069		na	
23	M8PFOA	INT STD	9.88	420.989 > 375.979	61715		9.807		na	98.1
24	6:2FTS	27619-97-2	9.84	426.989 > 406.921	759		1.796		na	94.5
25	M2-6:2FTS	INT STD	9.84	428.989 > 408.917	4295		8.354		na	83.5
26	PFHpS	375-92-8	9.97	448.926 > 80.257	954		1.768		na	93.0
27	PFNA	375-95-1	10.61	462.989 > 418.931	9811		2.078		na	103.9
28	M9PFNA	INT STD	10.61	472.053 > 426.947	56642		9.578		na	95.8
29	br-PFOS	1763-23-1	10.48	498.989 > 80.294	427		0.396		na	98.9
30	L-PFOS	1763-23-1	10.66	498.989 > 80.294	1130		1.480		na	93.7
31	PFOS	1763-23-1		498.989 > 80.294	1557		1.875		na	
32	M4PFOS	INT STD	10.66	503.032 > 80.306	6433		10.609		na	106.1
33	M8PFOS	INT STD	10.66	507.053 > 80.294	7799		9.929		na	99.3
34	PFDA	335-76-2	11.23	513.053 > 468.906	9275		1.931		na	96.5
35	M2PFDA	INT STD	11.23	515.053 > 469.934	44733		10.670		na	106.7
36	M6PFDA	INT STD	11.23	519.053 > 473.931	56502		10.460		na	104.6
37	8:2FTS	39108-34-4	11.22	526.989 > 506.946	636		2.262		na	117.8
38	M2-8:2FTS	INT STD	11.22	529.117 > 80.953	827		10.415		na	104.2
39	PFNS	68259-12-1	11.26	548.989 > 80.249	1095		1.657		na	86.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

ID: IA2-537-ISOSTD02.0
Name: I5990
Date: 21-Mar-2018
Time: 16:25:16
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.57	573.096 > 418.987	6840		9.903		na	99.0
41	NMeFOSAA	2355-31-9	11.58	570.053 > 418.917	1474		2.052		na	102.6
42	PFUnA	2058-94-8	11.77	562.989 > 518.903	9012		1.938		na	96.9
43	M7-PFUDA	INT STD	11.77	570.053 > 524.923	45182		10.223		na	102.2
44	PFDS	335-77-3	11.79	598.926 > 80.314	1236		1.653		na	85.7
45	FOSA	754-91-6	11.70	497.989 > 78.245	3633		1.950		na	97.5
46	M8FOSA	INT STD	11.70	506.053 > 78.286	22809		9.570		na	95.7
47	d5-NEtFOSAA	INT STD	11.86	589.117 > 418.929	6601		10.088		na	100.9
48	NEtFOSAA	2991-50-6	11.86	583.989 > 418.927	1248		2.059		na	103.0
49	PFDoA	307-55-1	12.25	612.989 > 568.967	9371		2.151		na	107.5
50	MPFDOA	INT STD	12.25	614.989 > 569.92	44508		9.733		na	97.3
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	7579		1.842		na	92.1
52	PFTA	376-06-7	12.76	713.053 > 668.976	5513		2.004		na	100.2
53	M2PFTEDA	INT STD	12.76	715.053 > 669.945	32258		8.973		na	89.7
54	M3HFPO-DA	INT STD	8.10	331.989 > 286.995	1197		99.537		na	49.8
55	HFPO-DA	13252-13-6	8.09	328.989 > 284.982	68		33.370		na	83.4
56	ADONA	958445-44-8	9.13	376.926 > 251.005	20255		2.200		na	116.3
57	PFHxDA		12.98	813.053 > 769.005	2051		1.649		na	82.4
58	PFODA		13.42	912.989 > 869.032	1126		1.918		na	95.9

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

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ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
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Description: WG1099280
User: LCMS01:PB
Vial: 2:A,3
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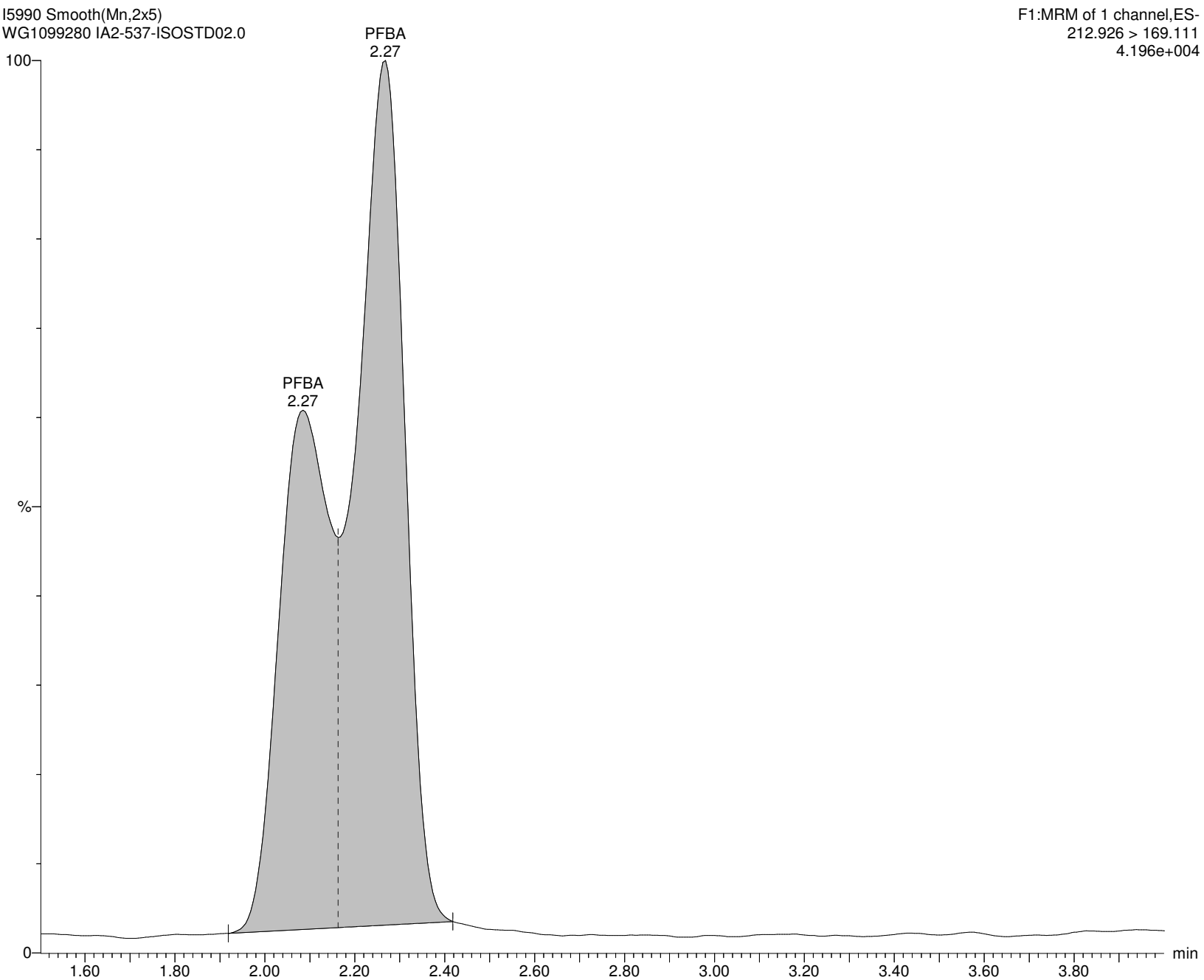

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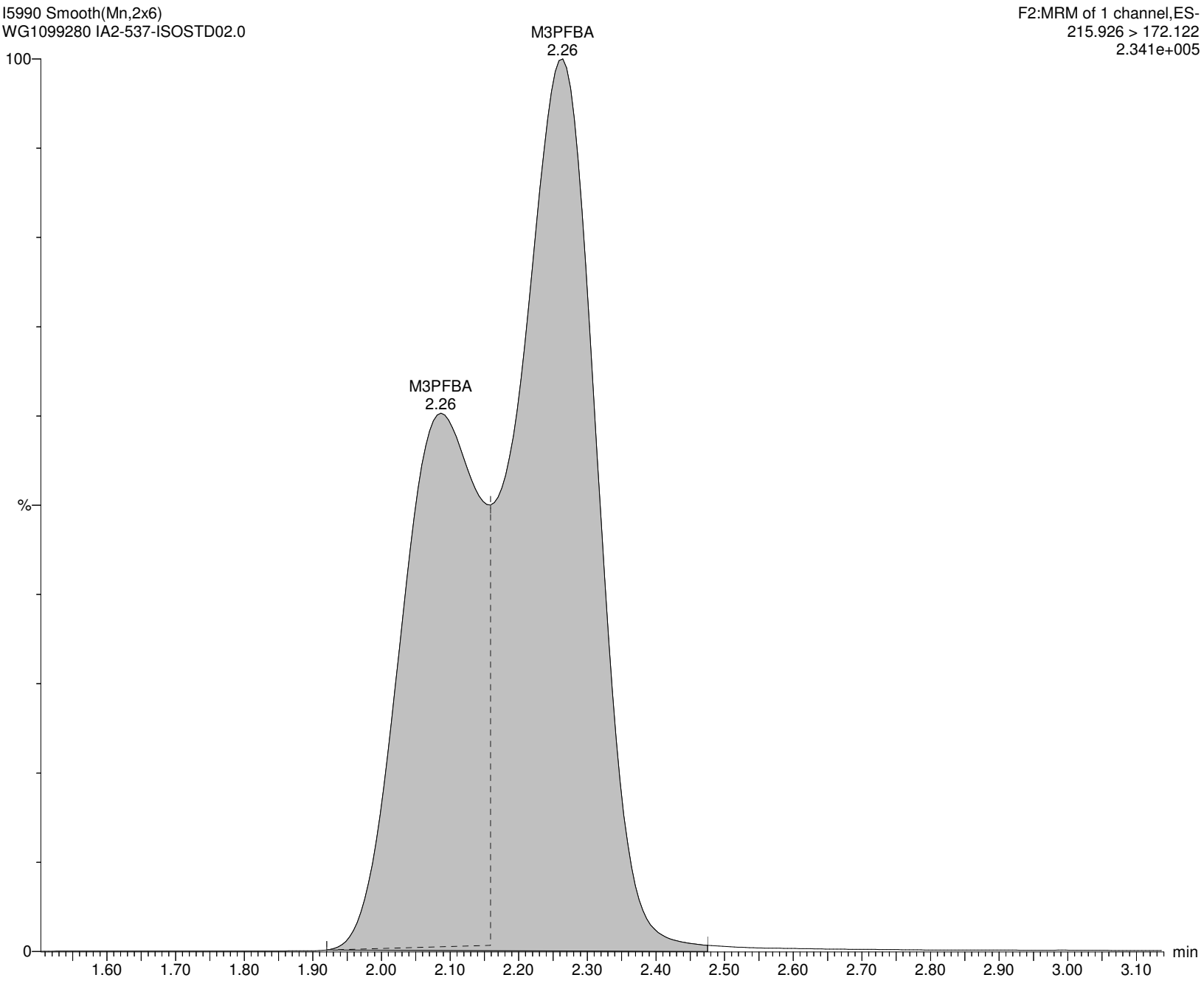

all concentration units in (ng/mL)

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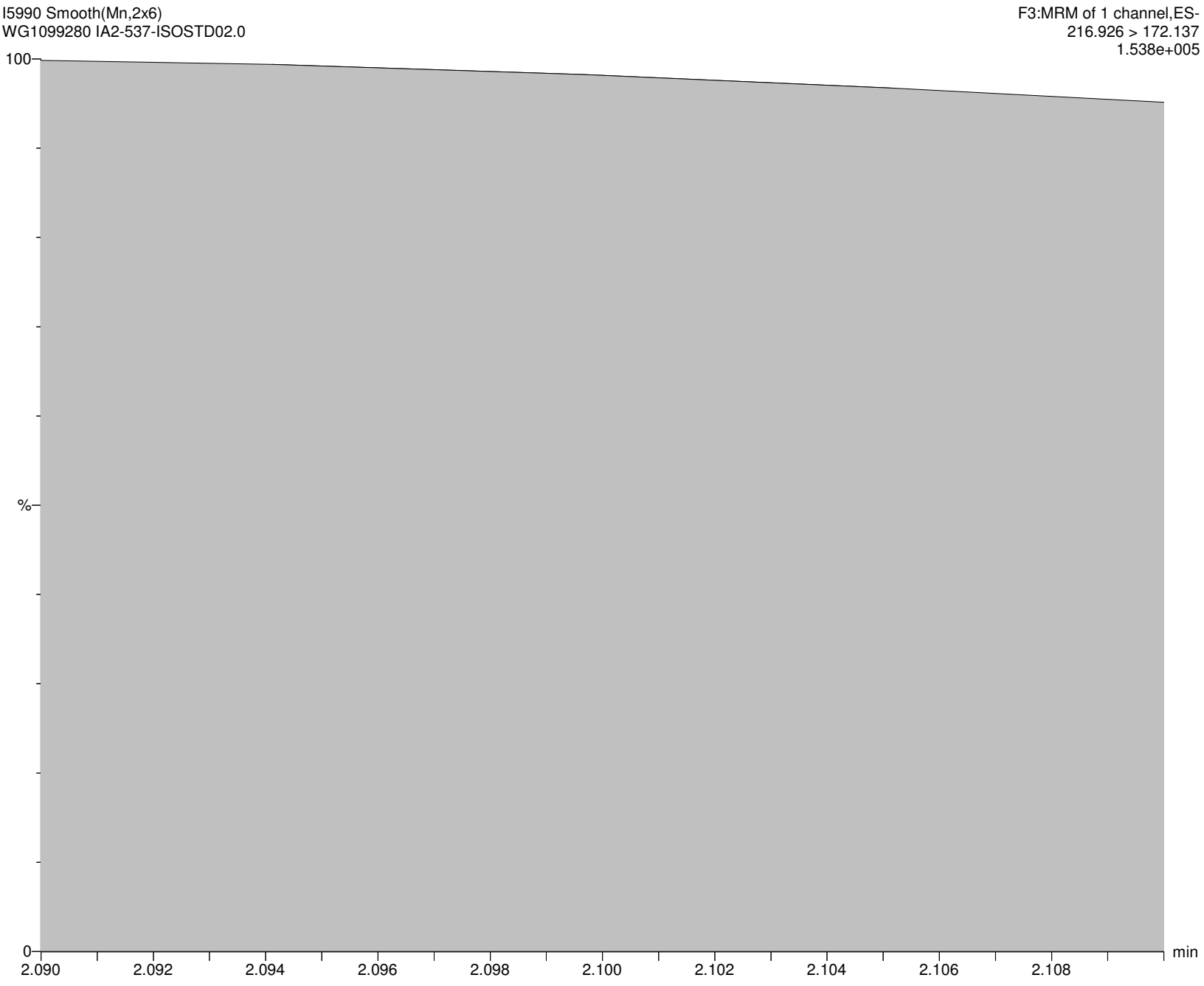

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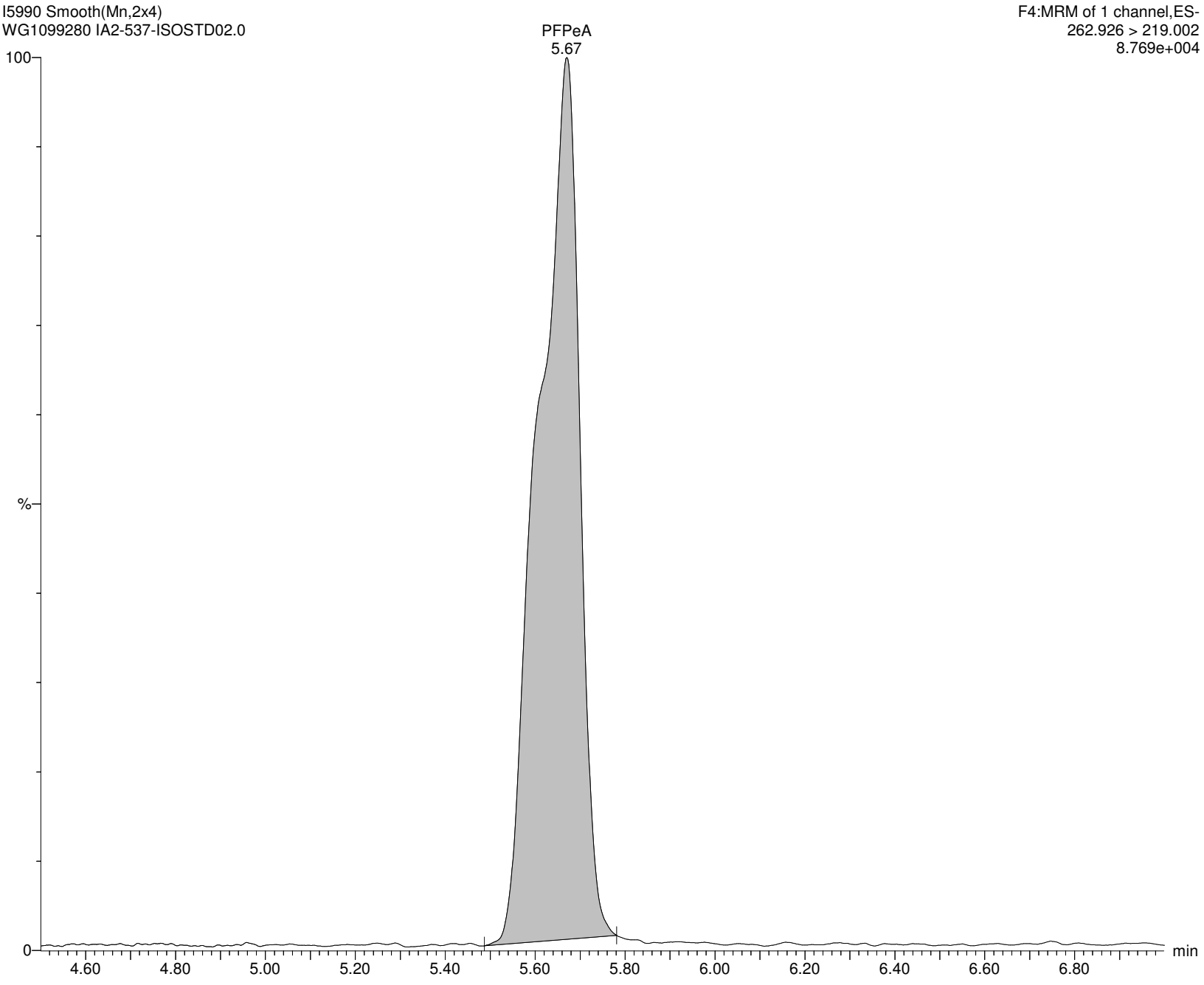

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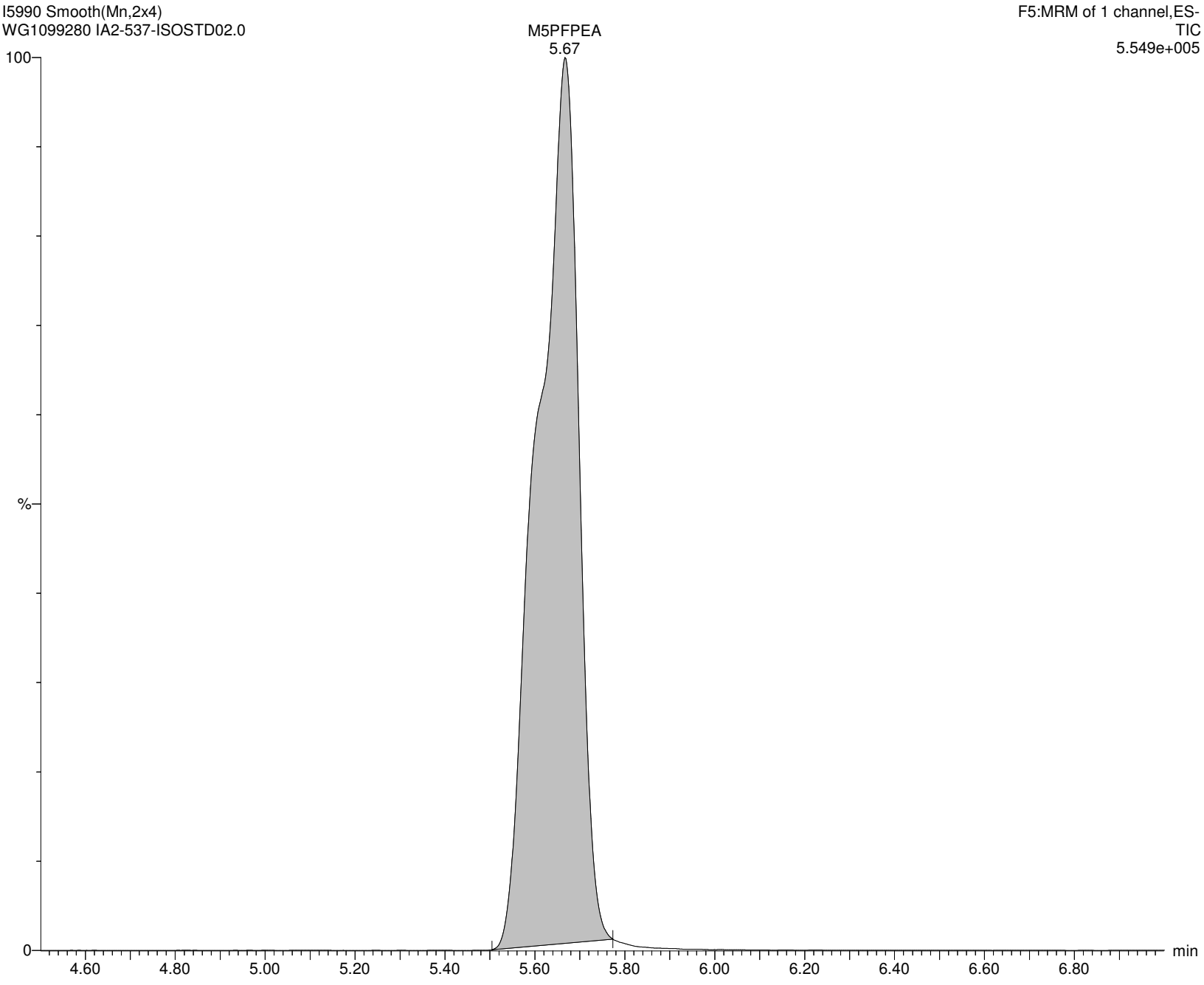

all concentration units in (ng/mL)

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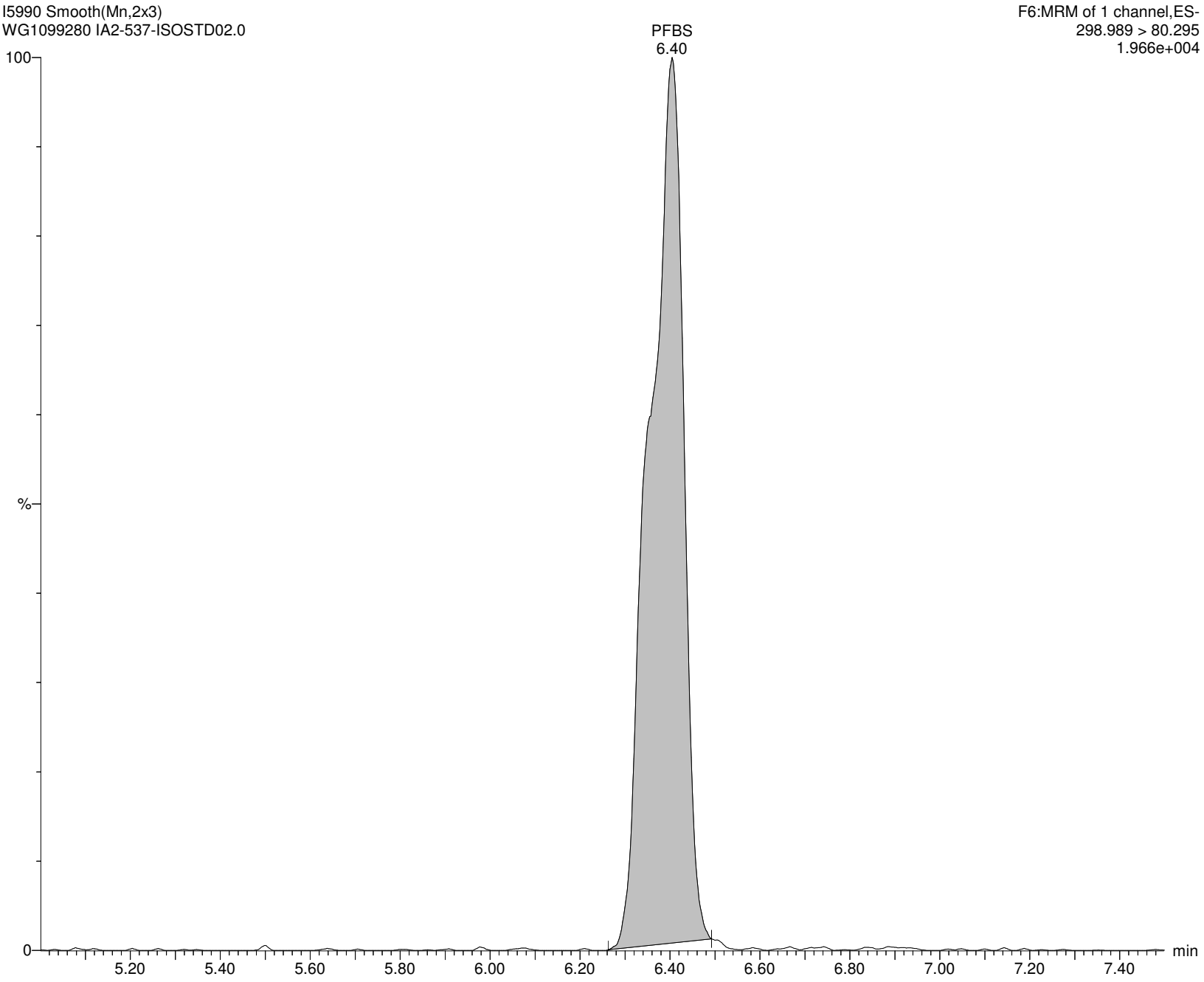
PFBS



all concentration units in (ng/mL)

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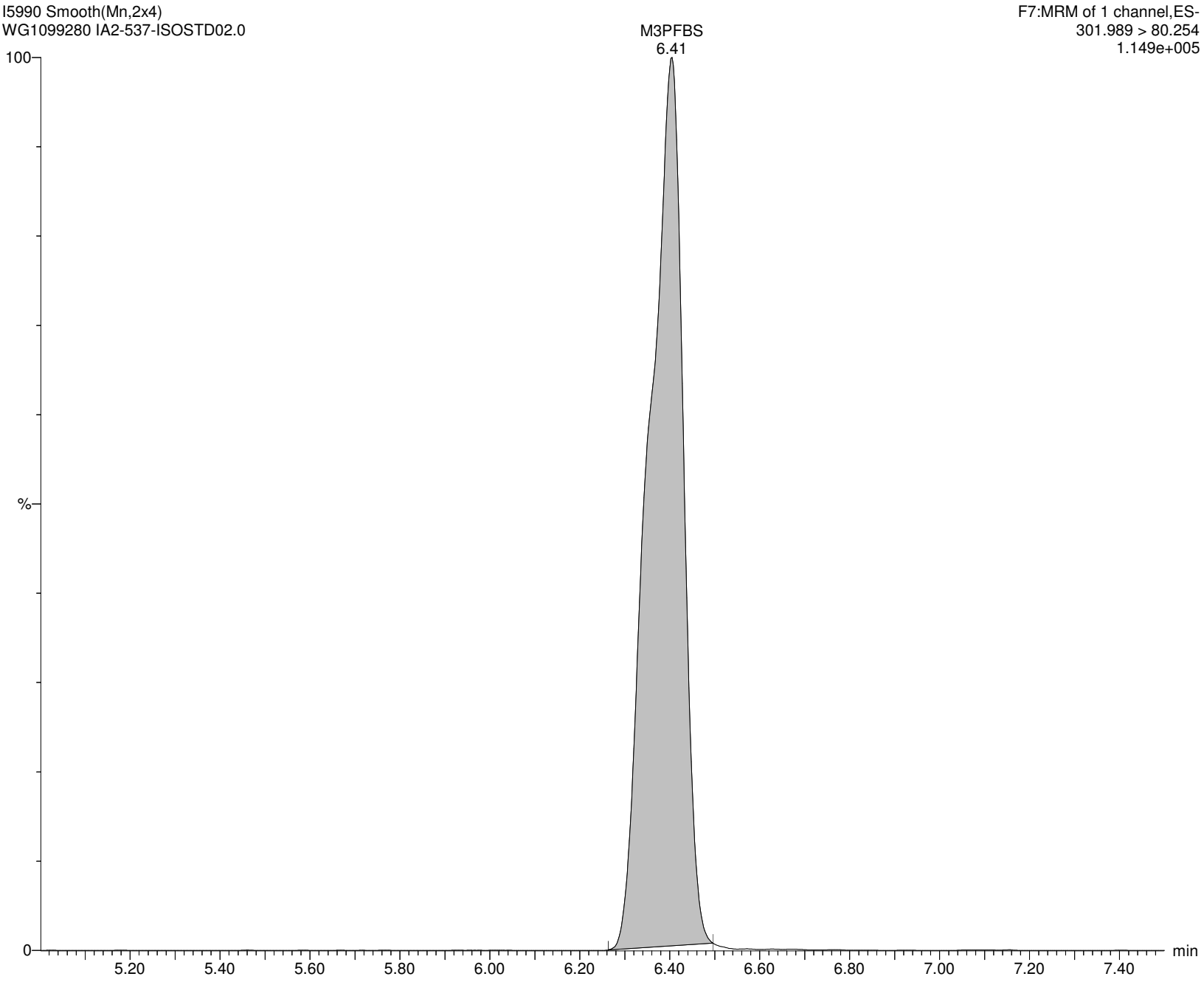
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

Name: I5990
ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
Time: 16:25:16
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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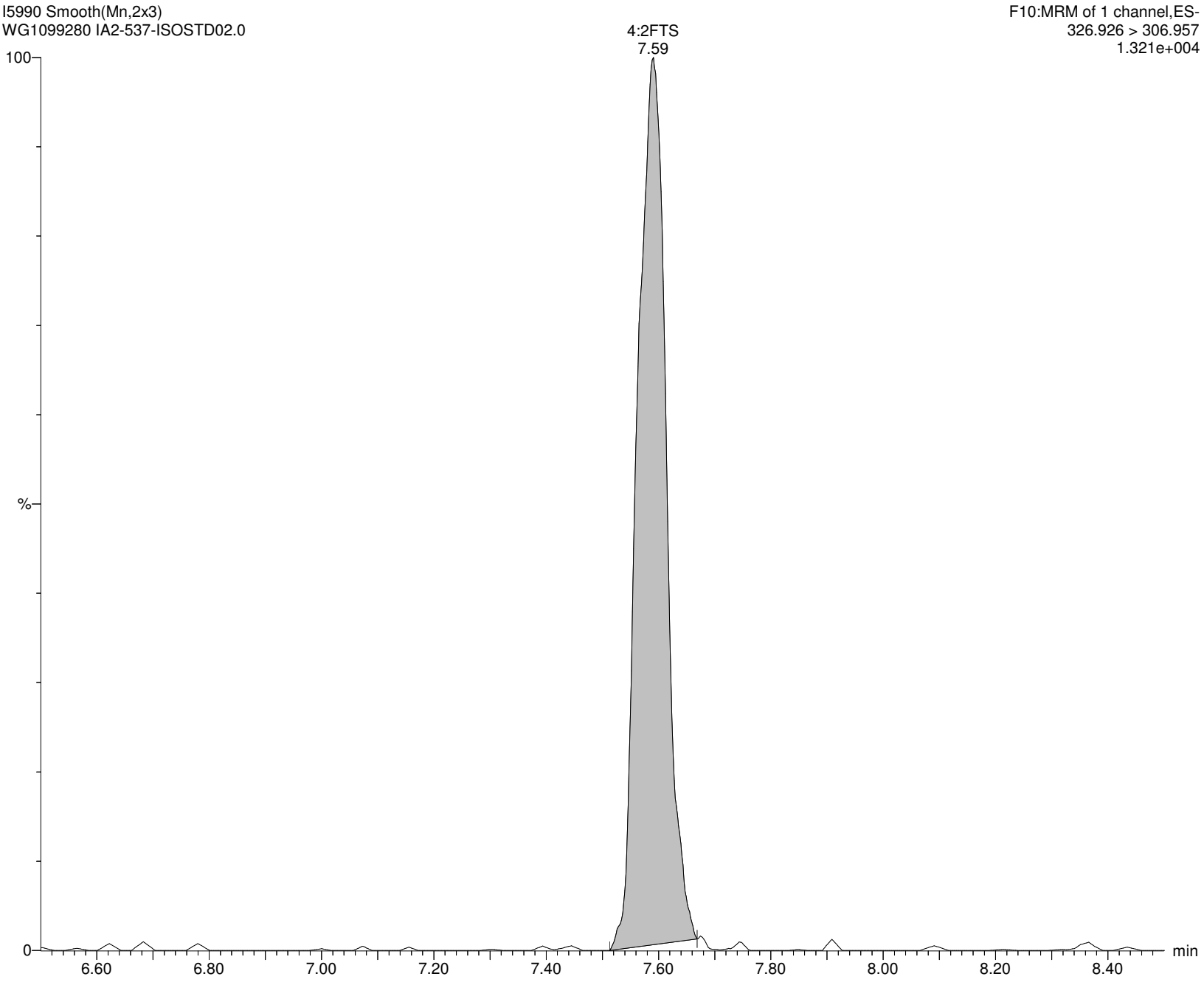

all concentration units in (ng/mL)

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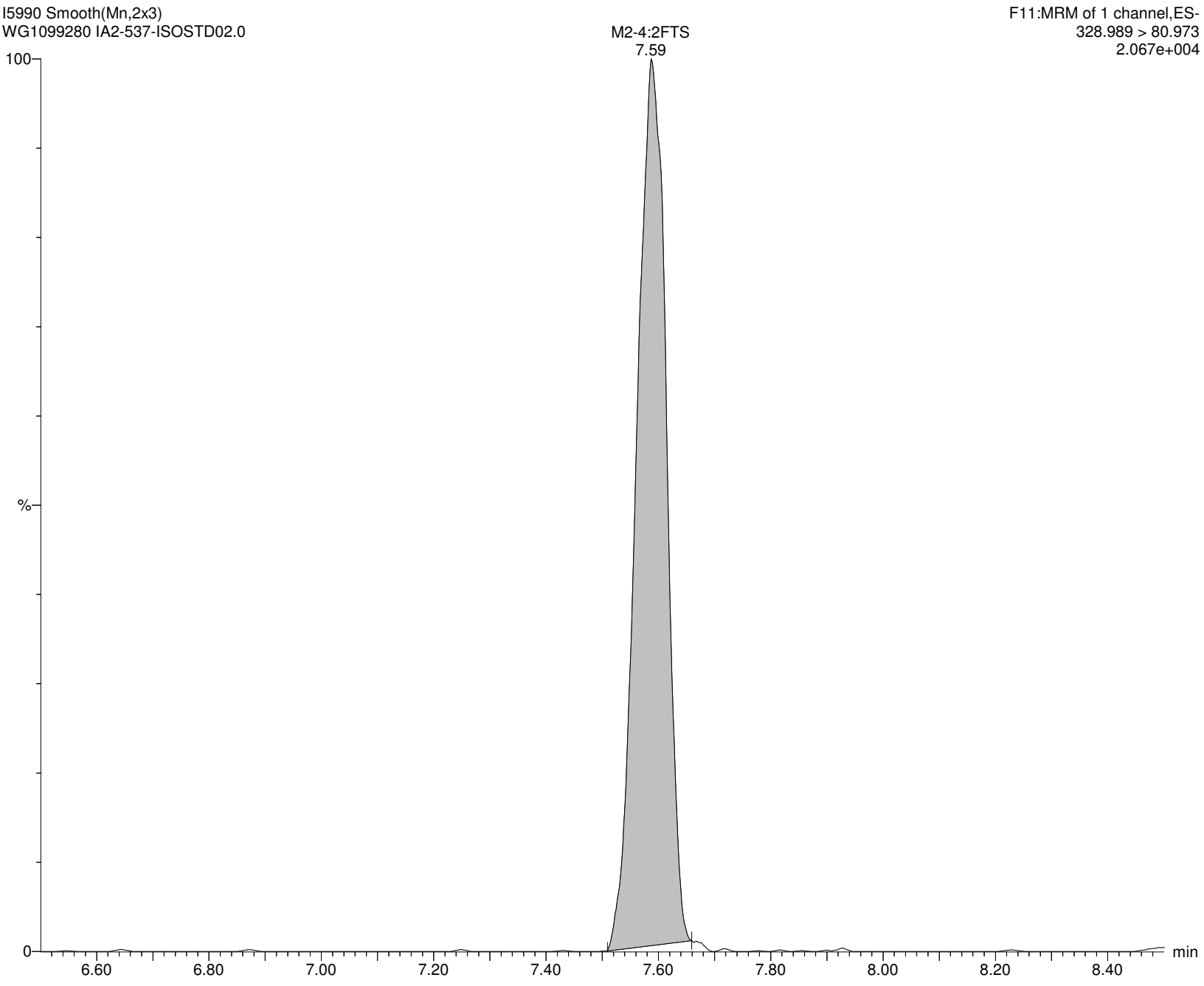

all concentration units in (ng/mL)

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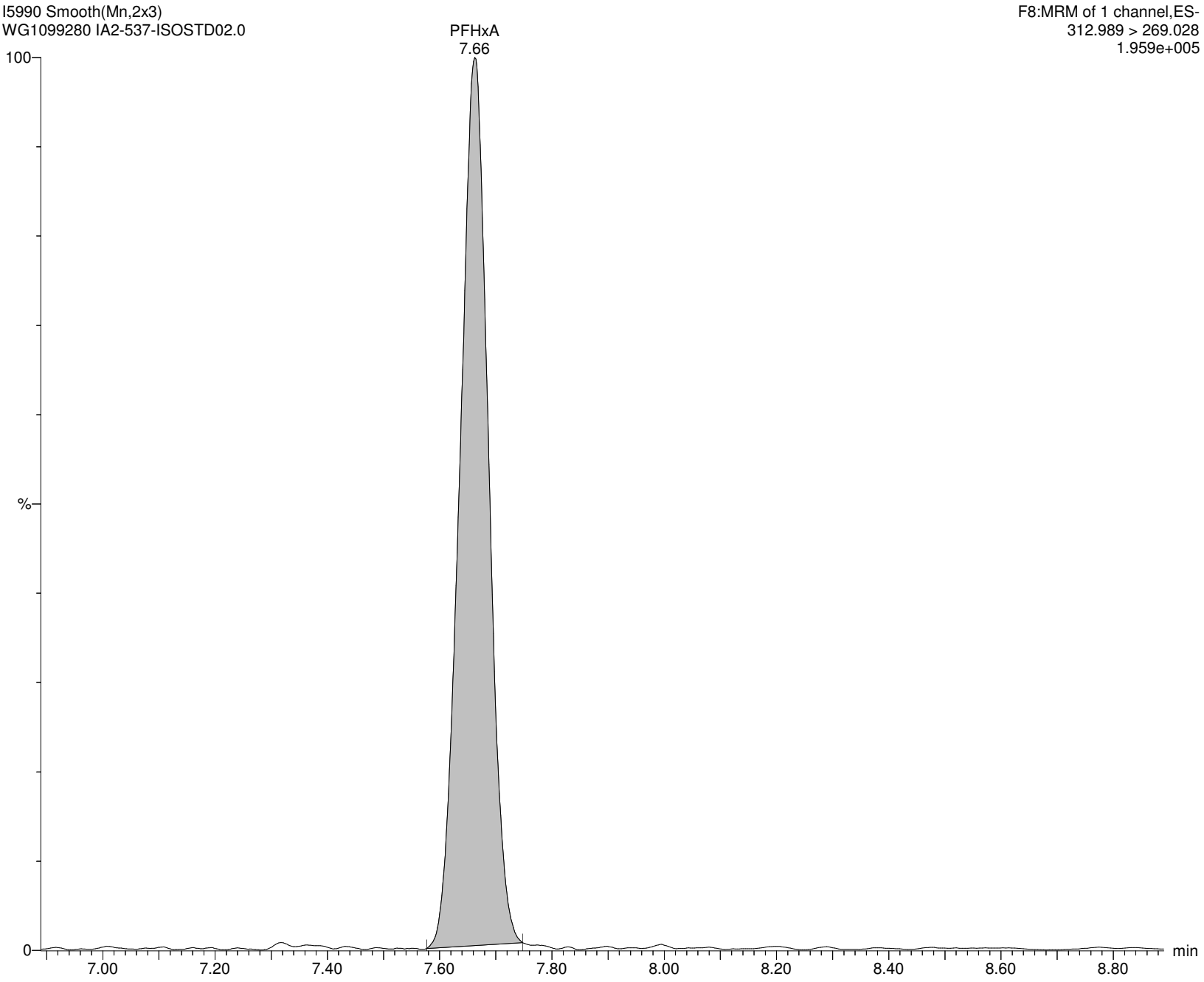

all concentration units in (ng/mL)

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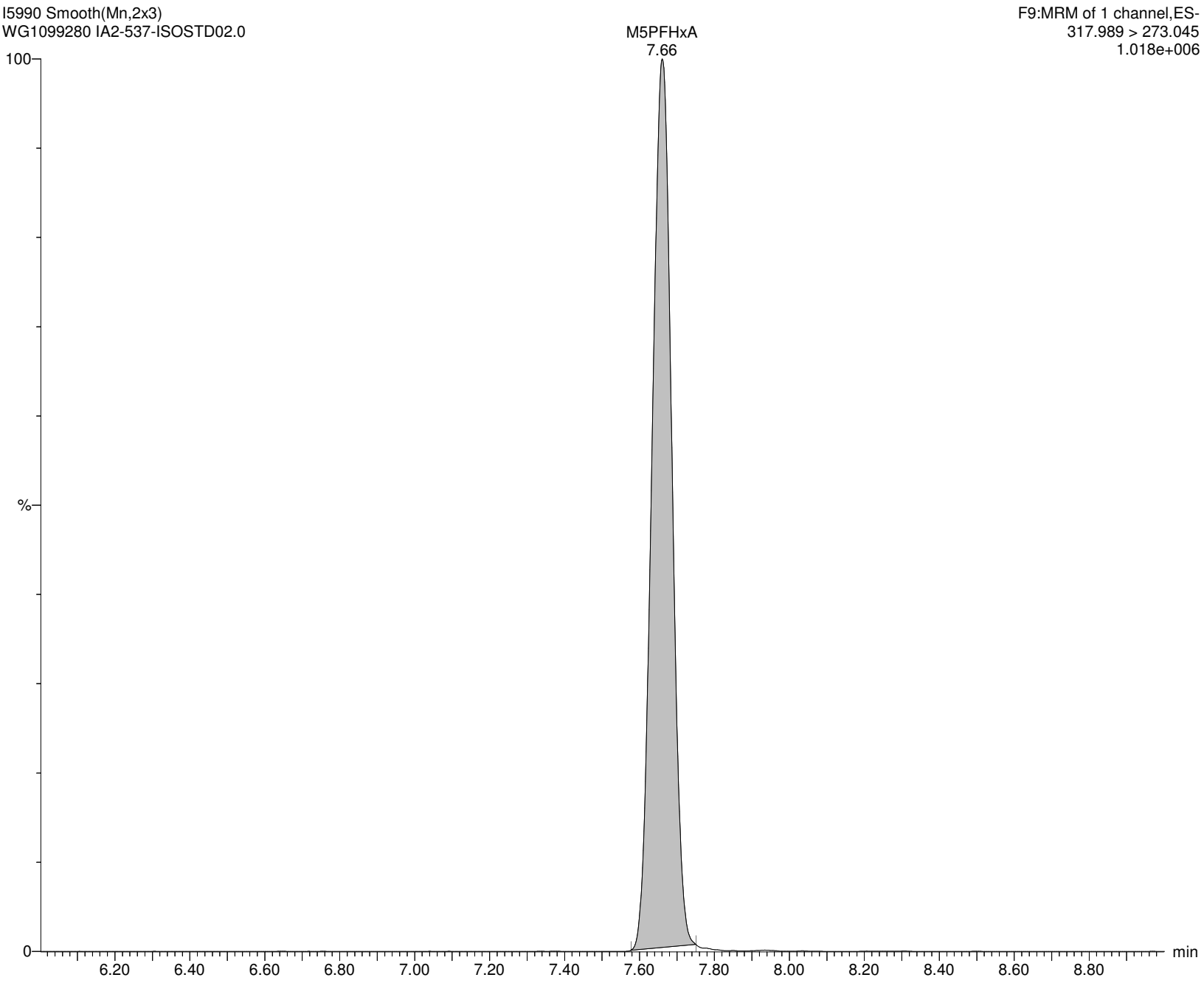

all concentration units in (ng/mL)

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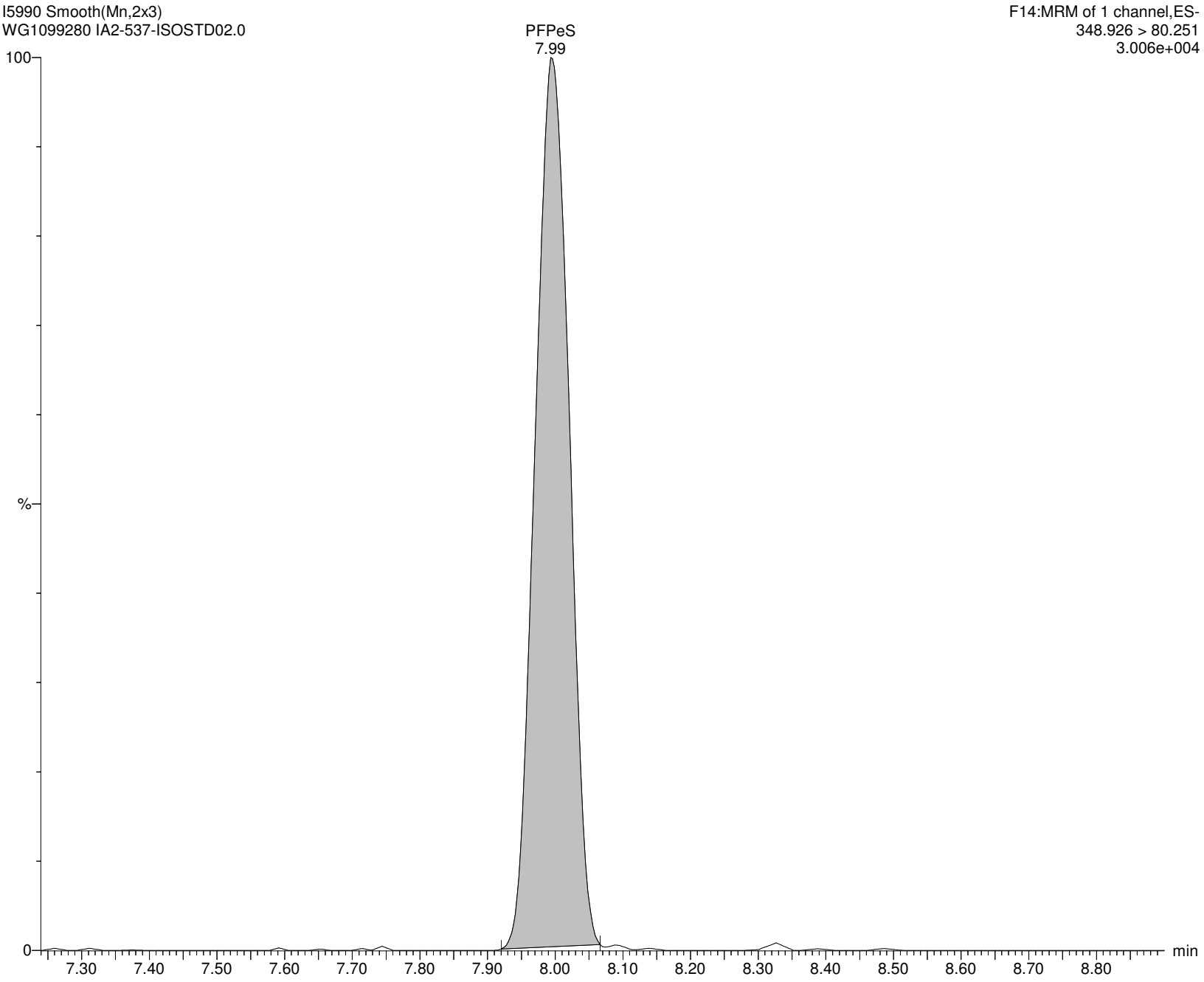

all concentration units in (ng/mL)

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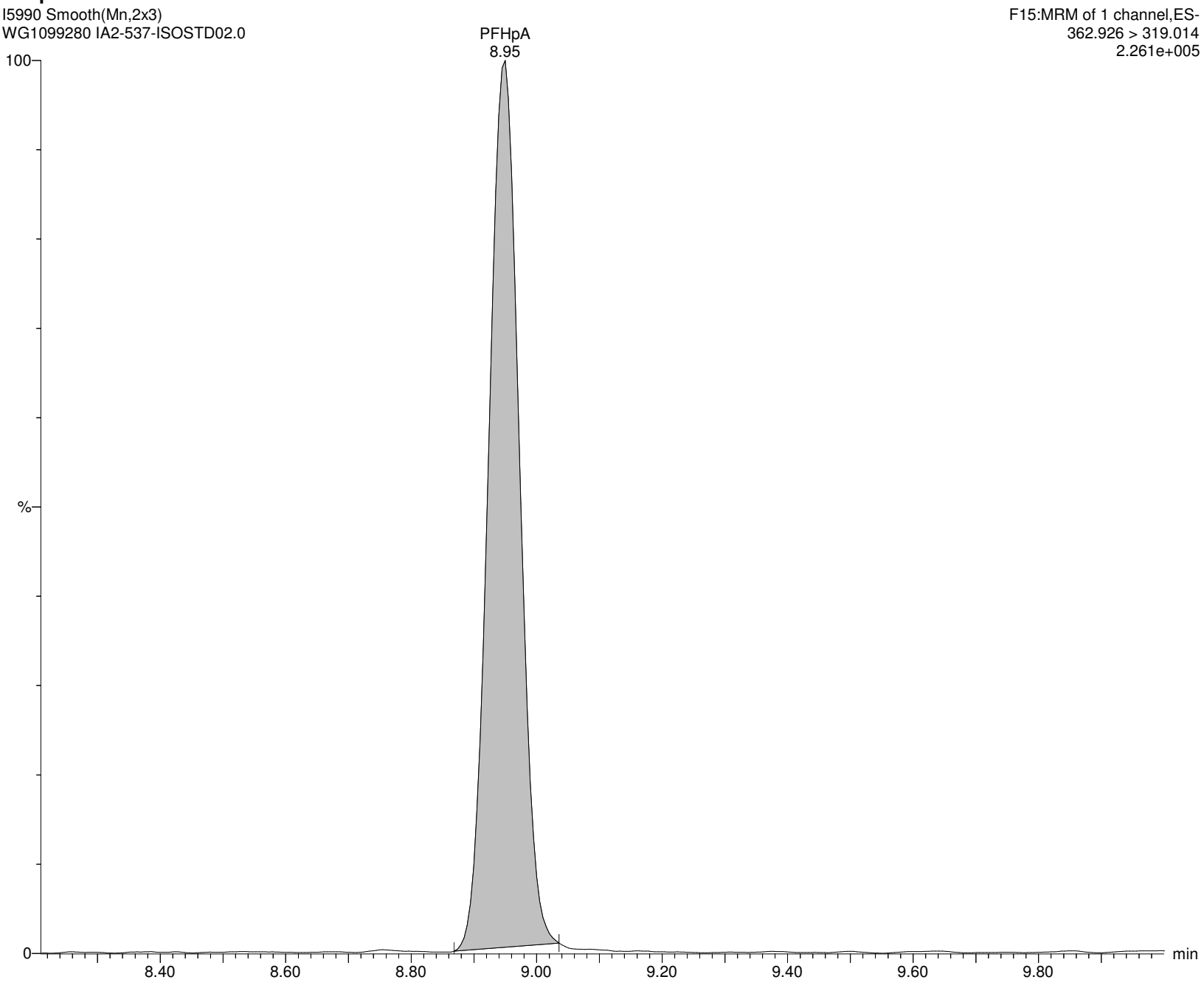

all concentration units in (ng/mL)

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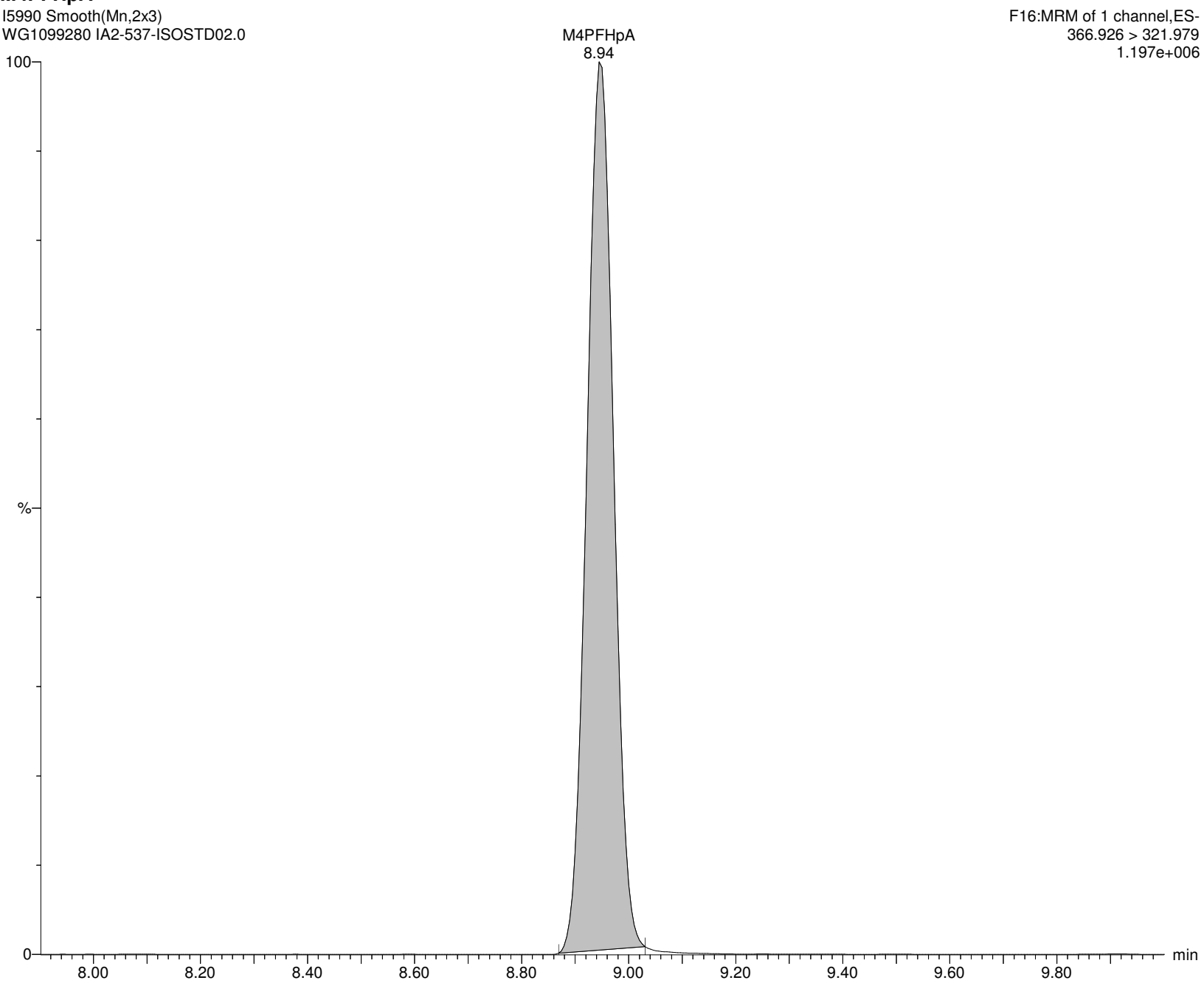

all concentration units in (ng/mL)

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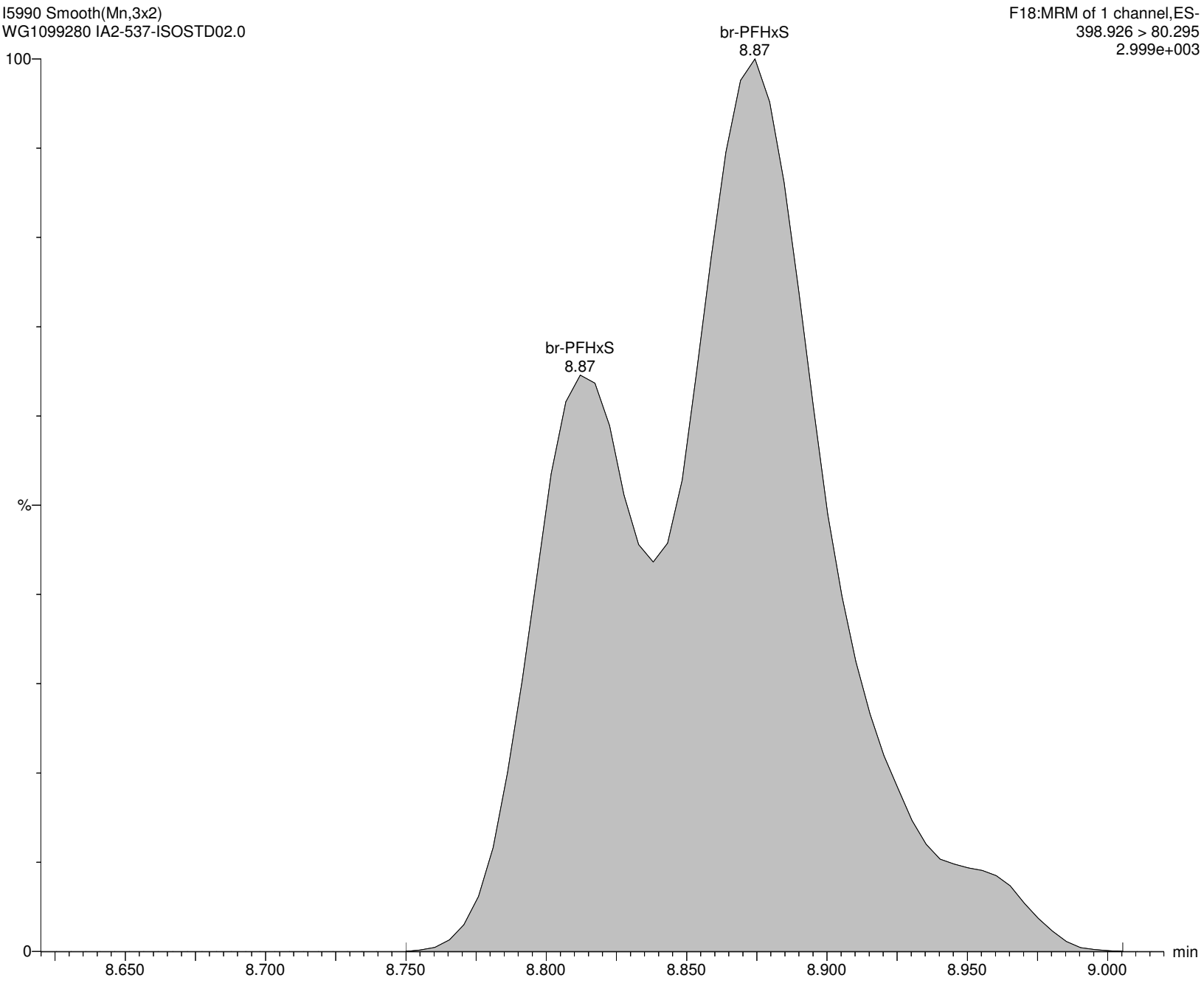

all concentration units in (ng/mL)

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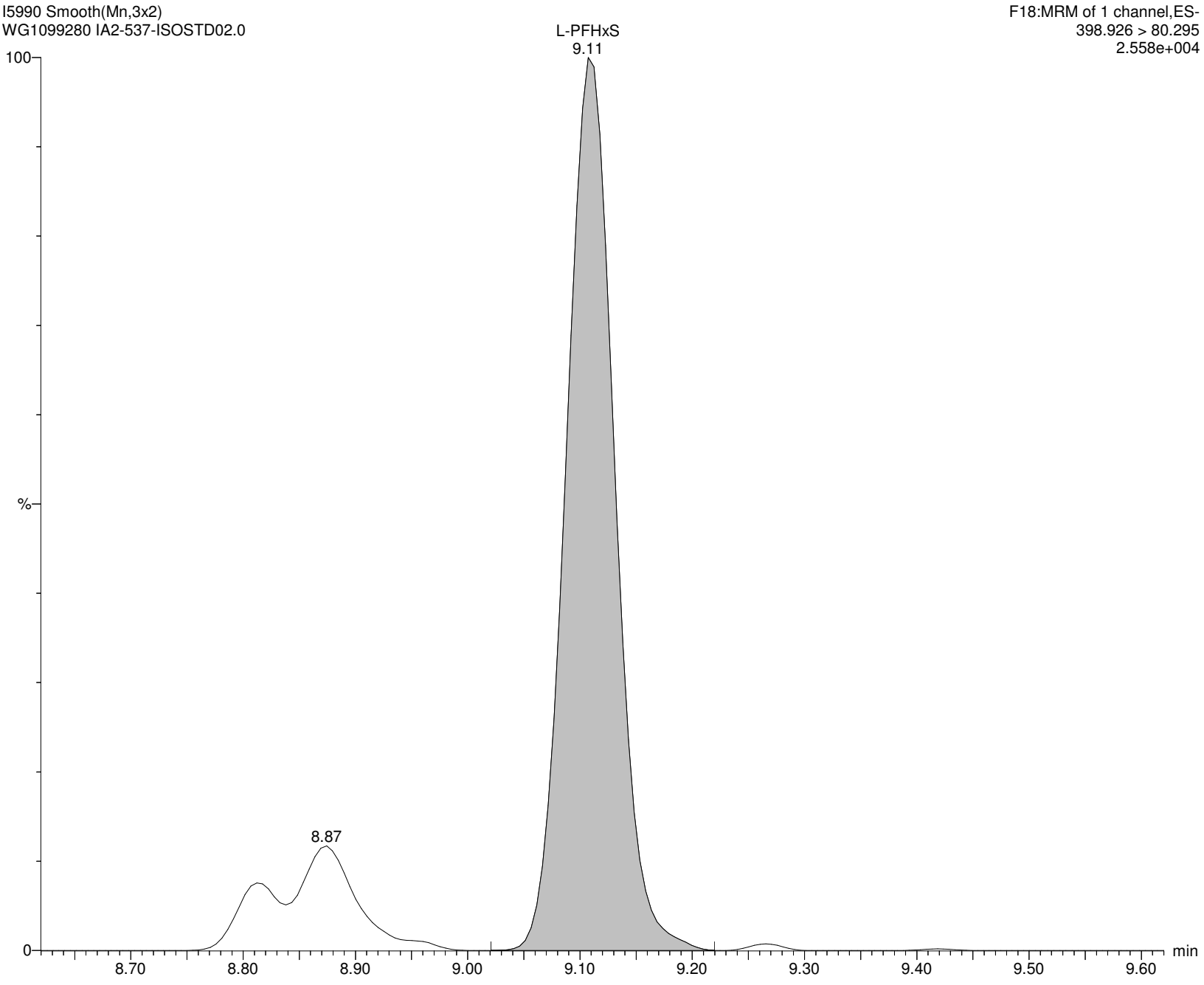

all concentration units in (ng/mL)

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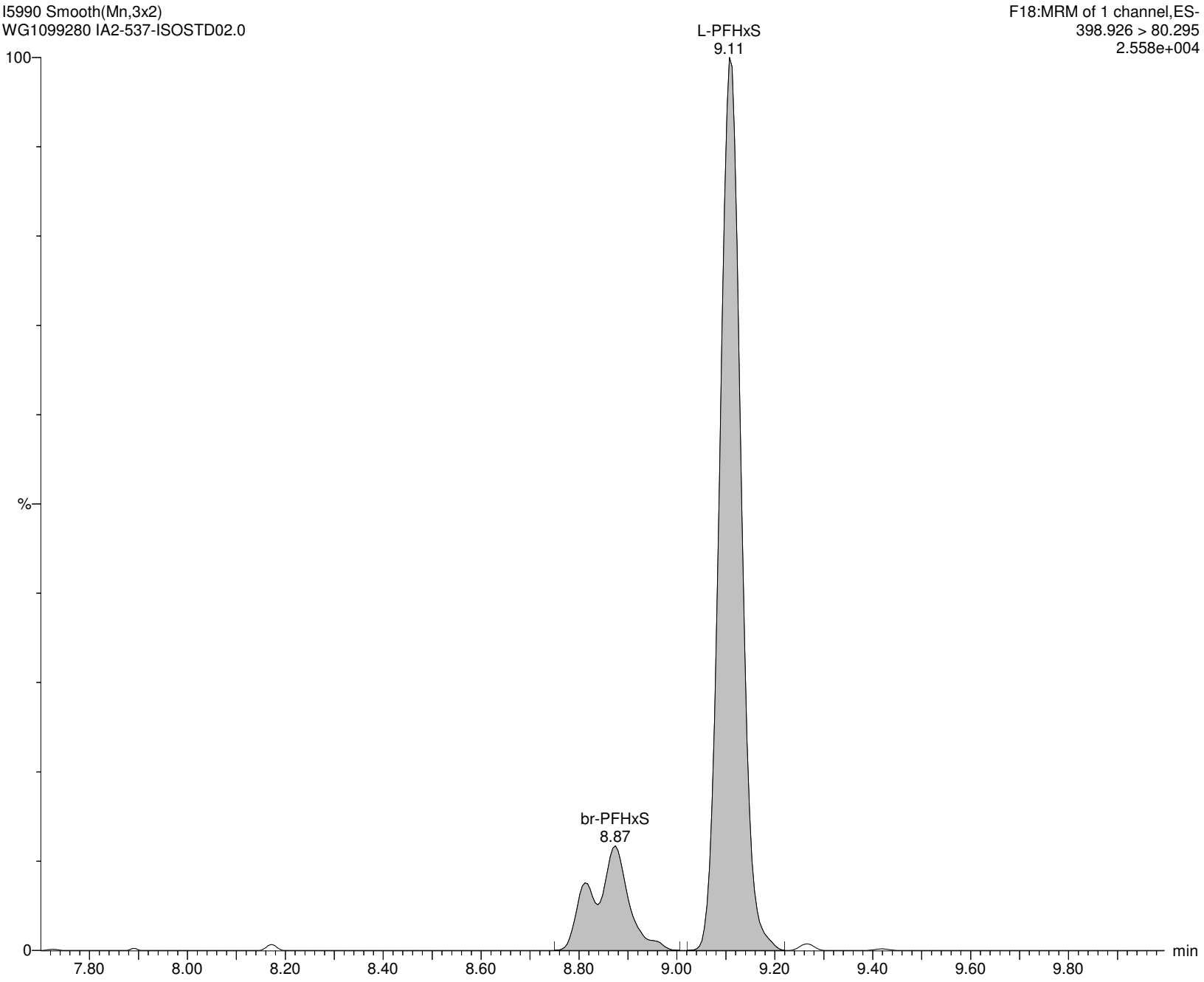

all concentration units in (ng/mL)

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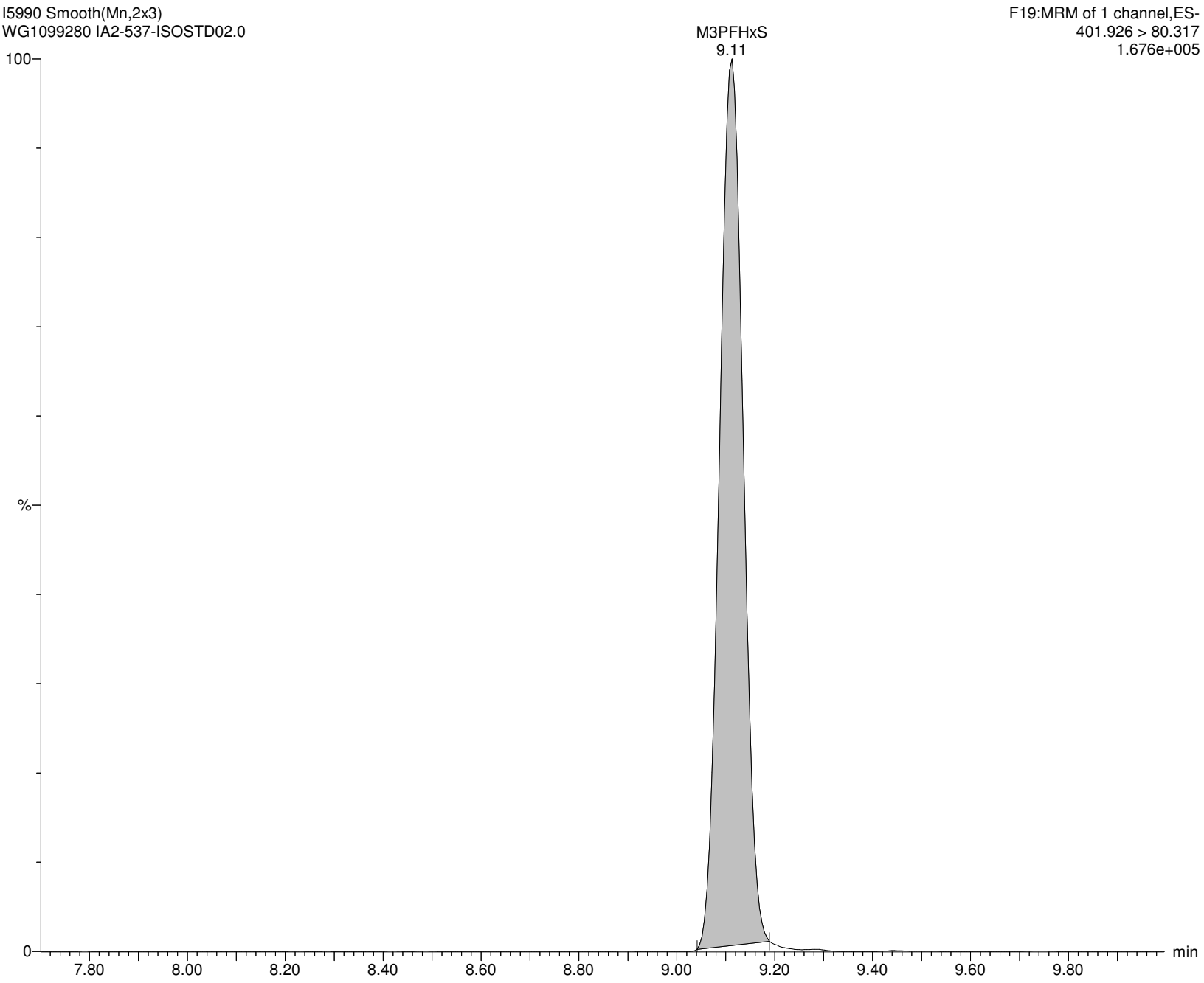

all concentration units in (ng/mL)

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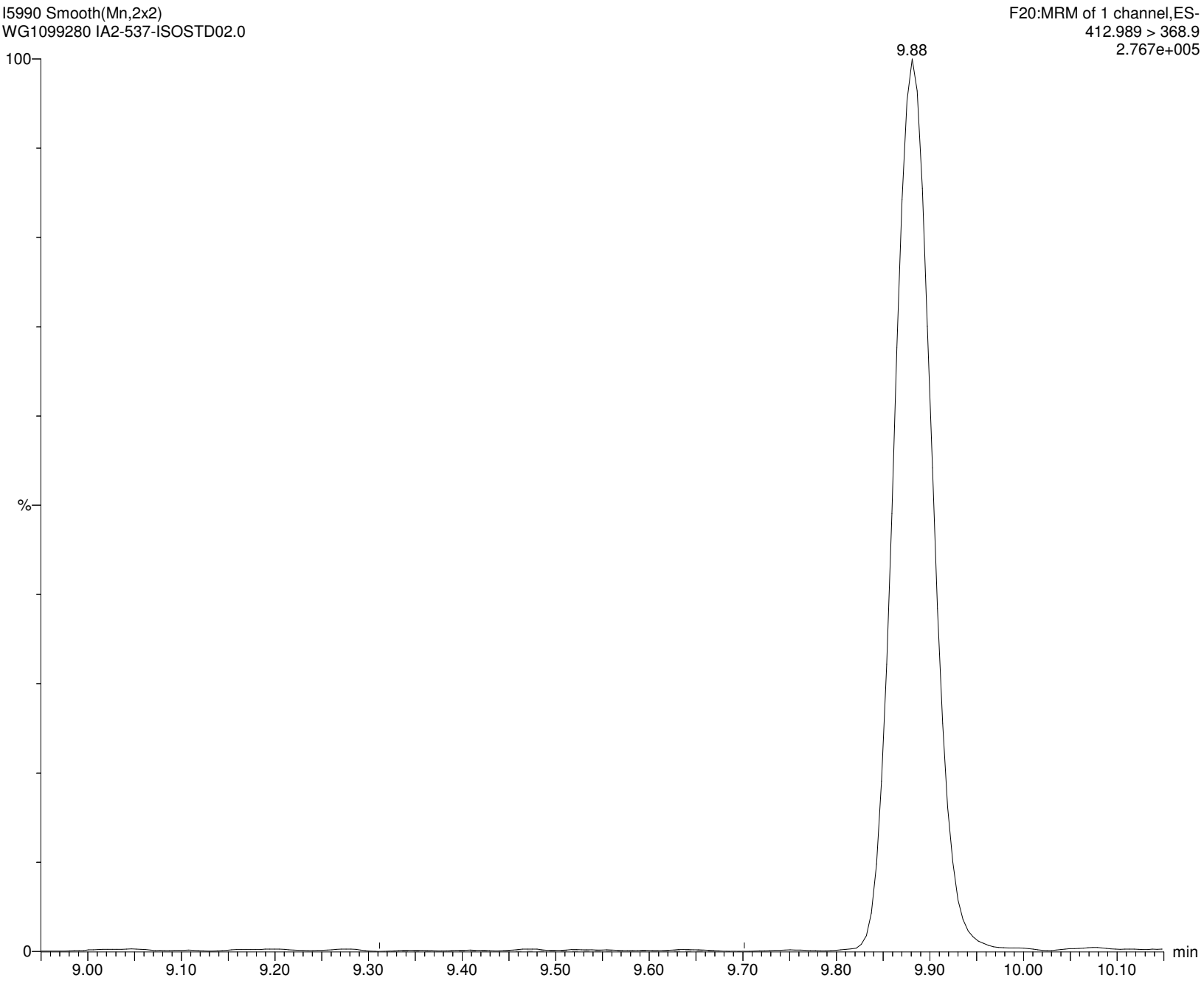

all concentration units in (ng/mL)

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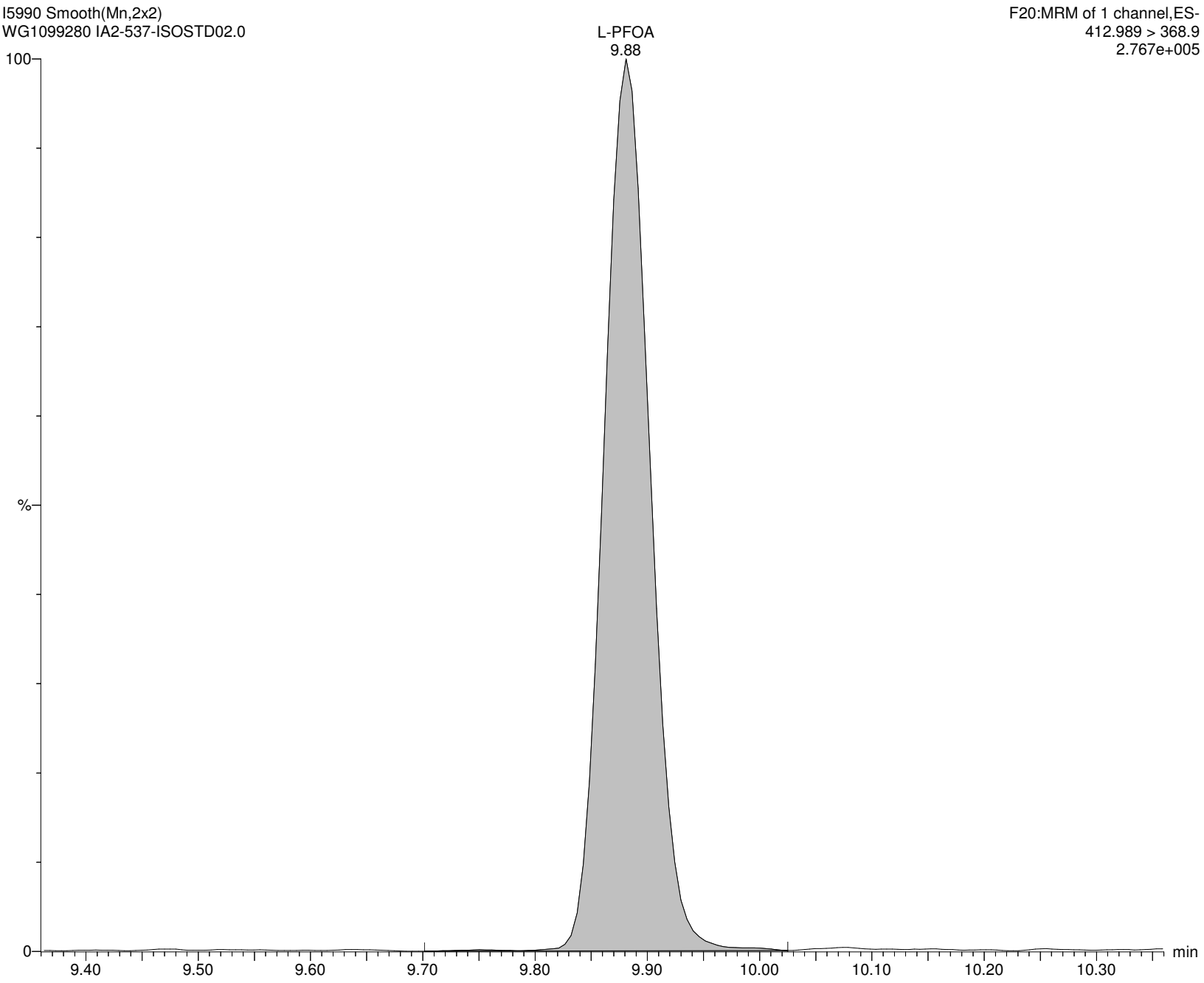

all concentration units in (ng/mL)

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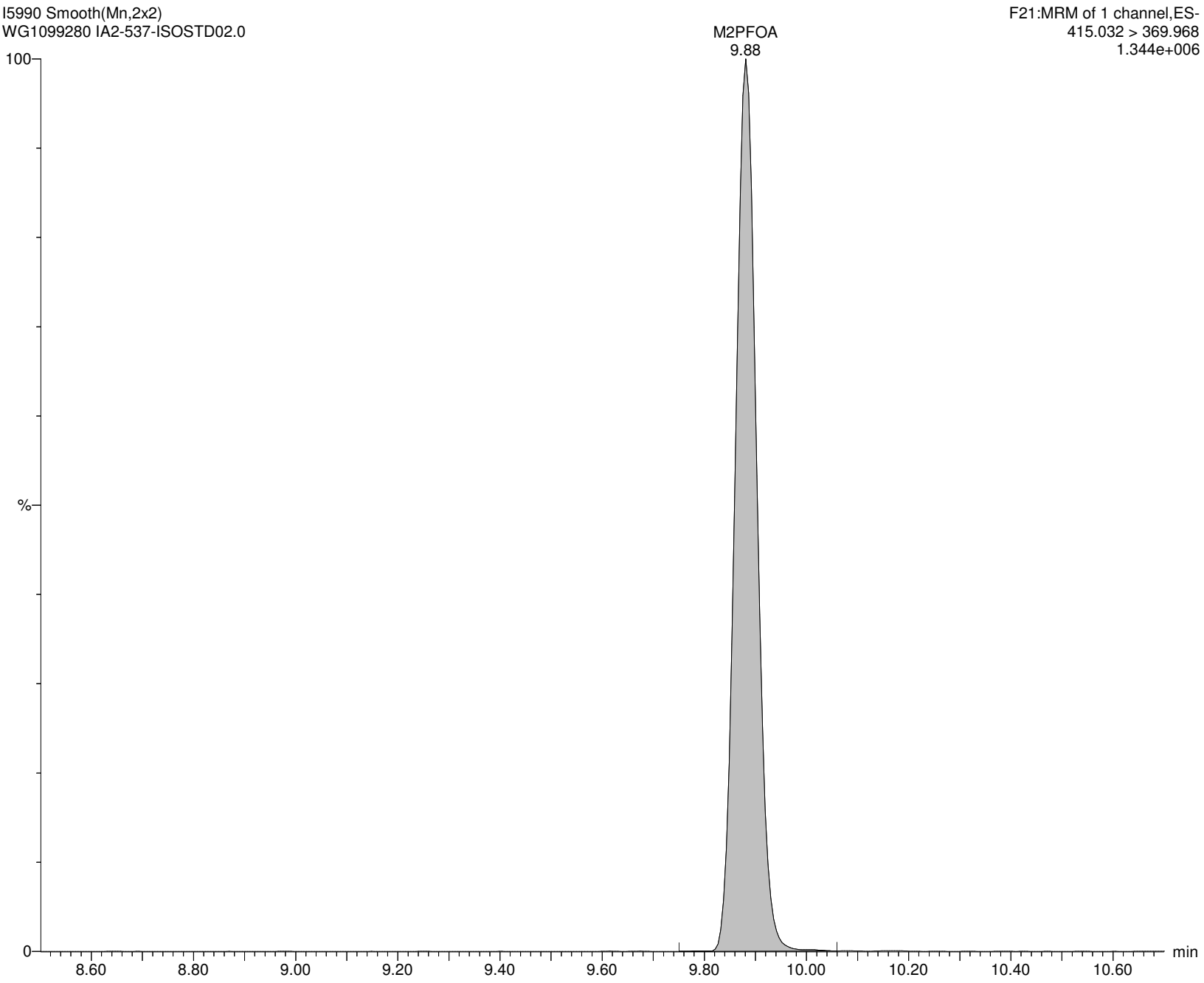

all concentration units in (ng/mL)

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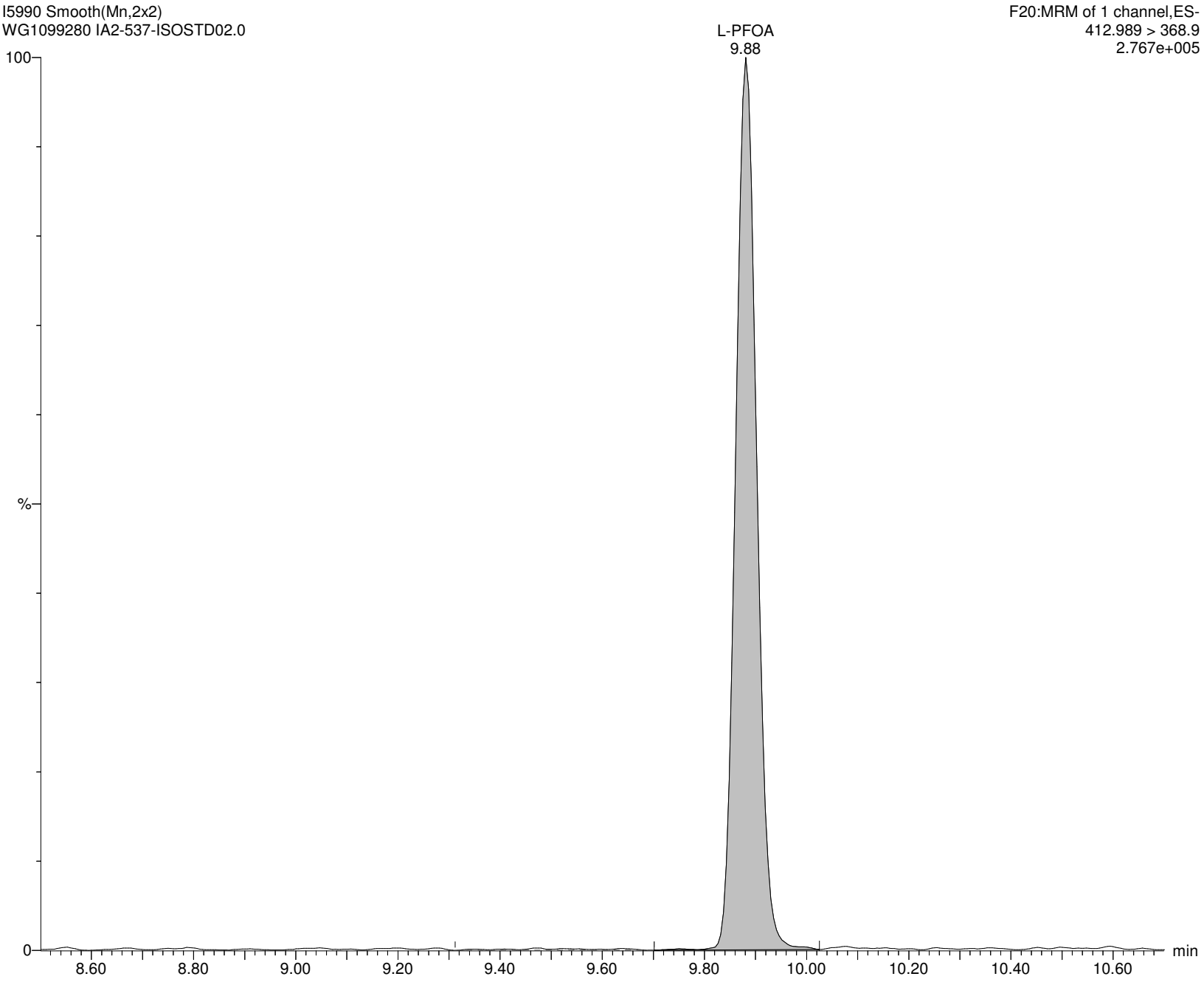

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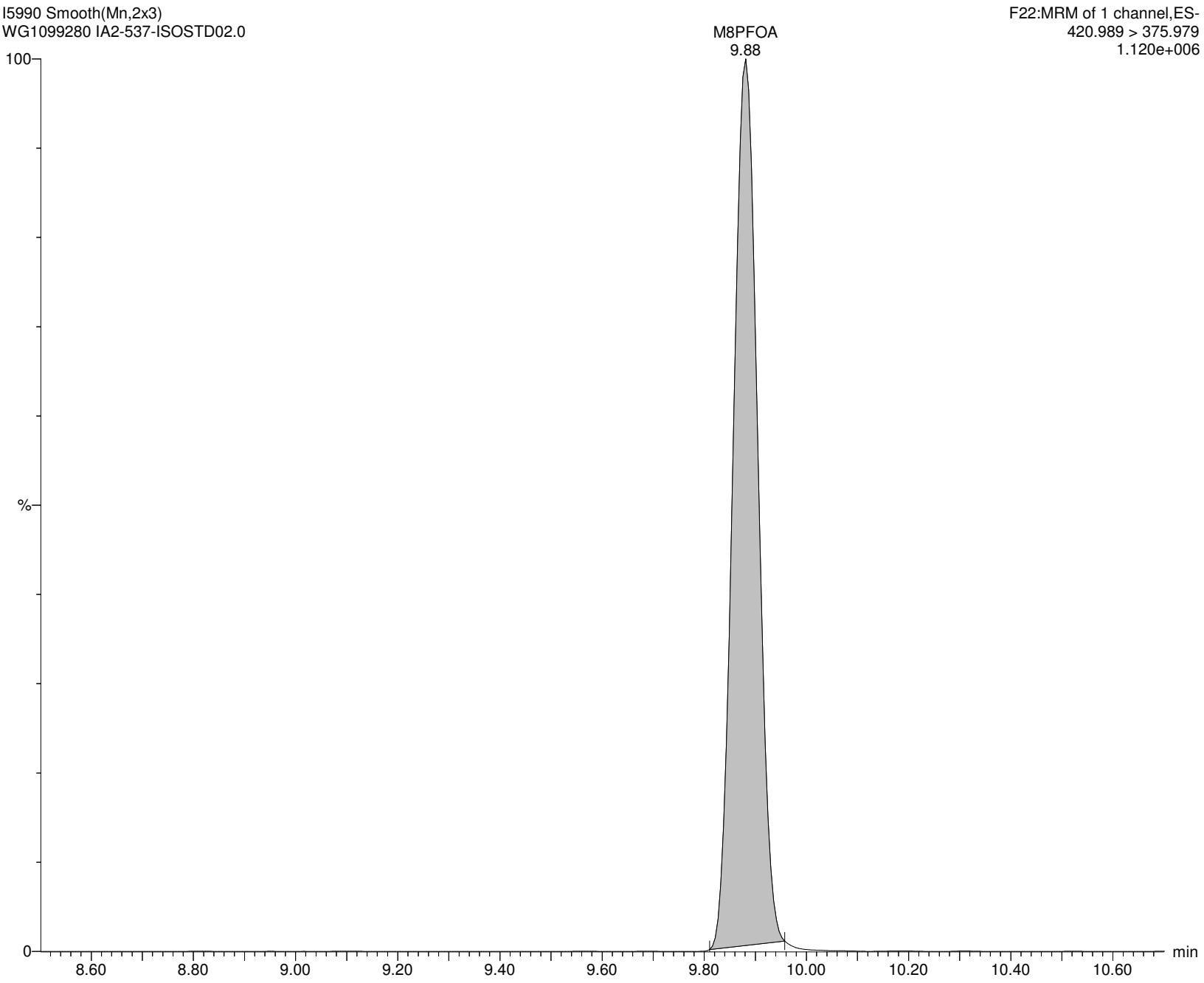

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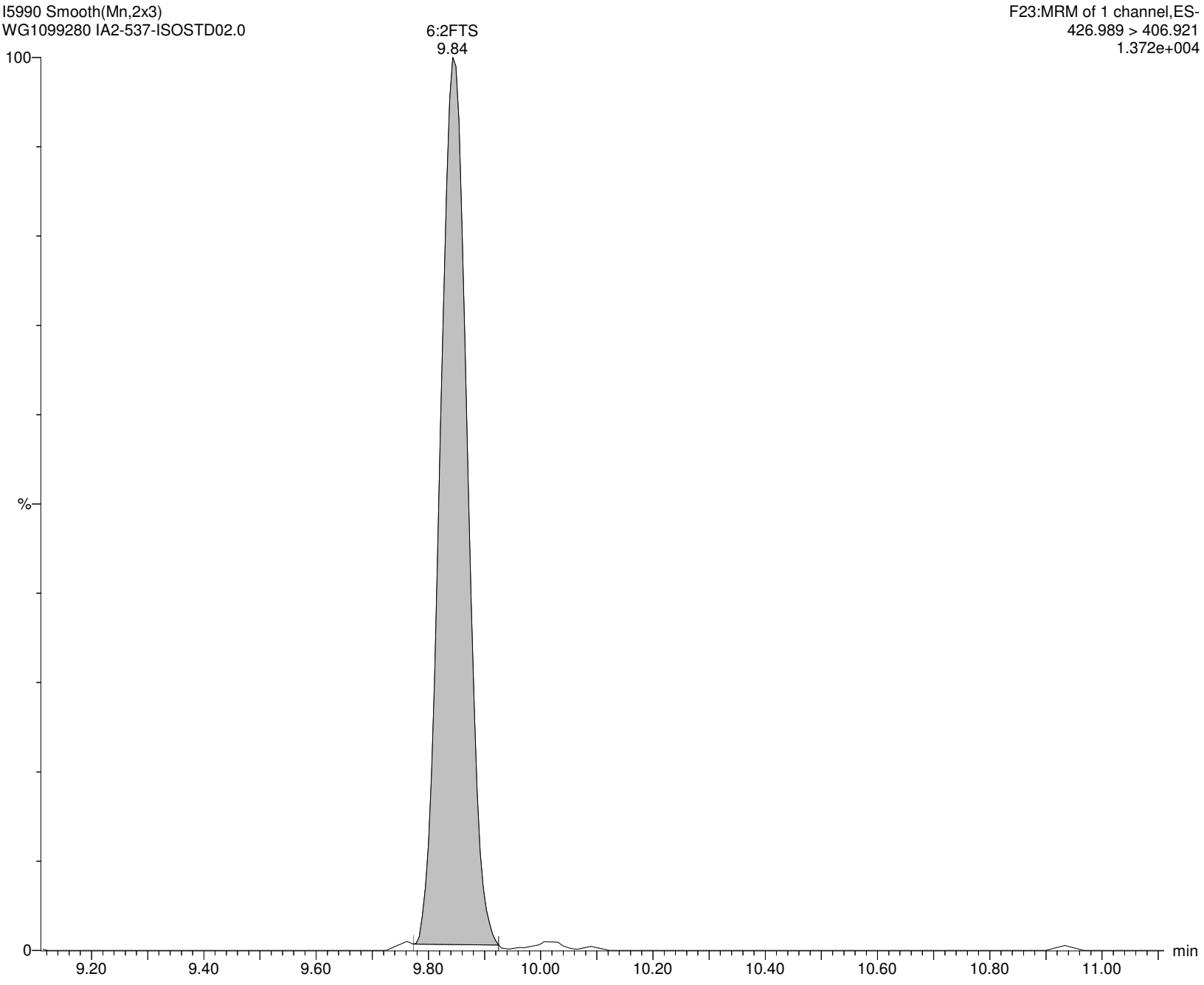

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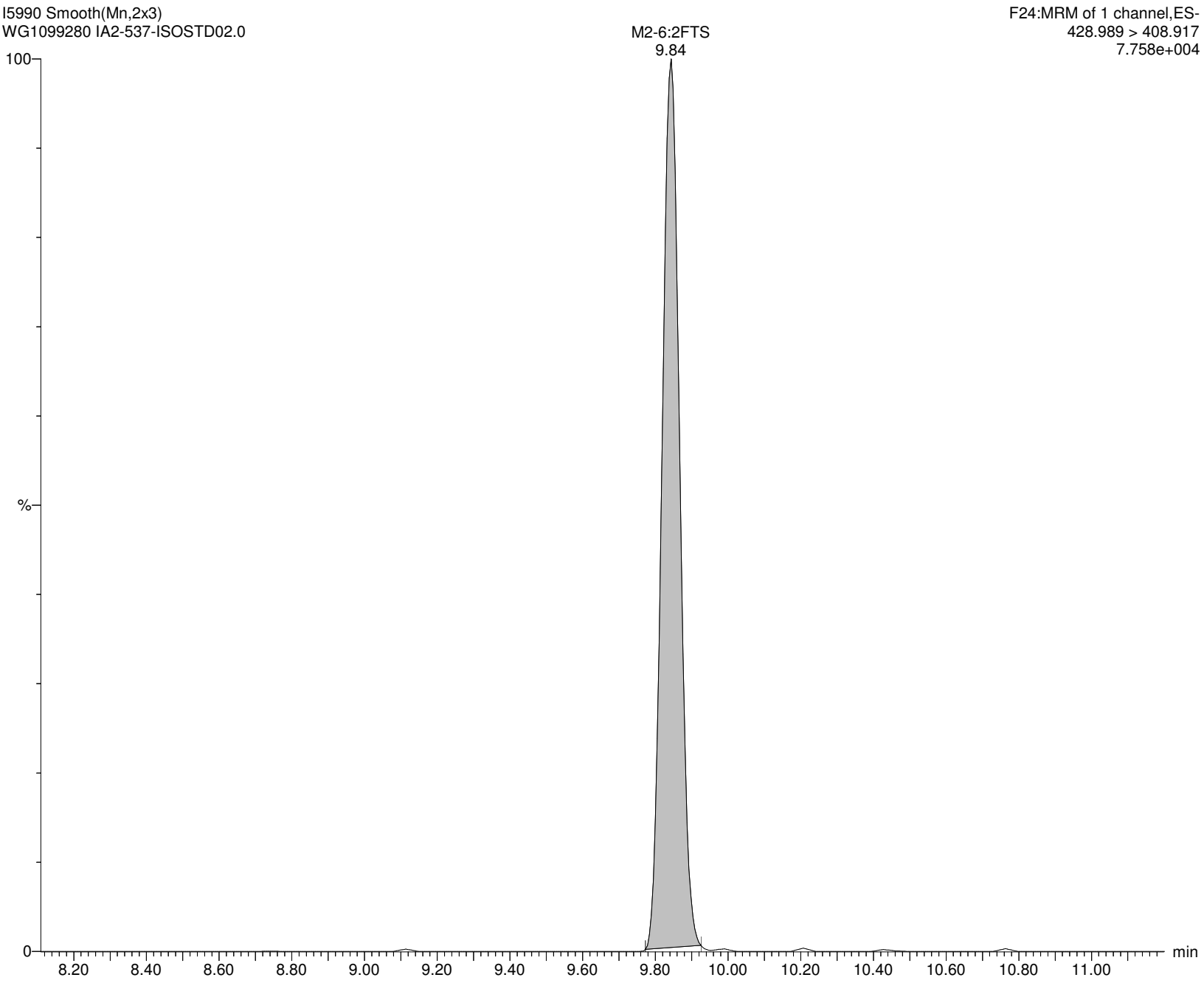

all concentration units in (ng/mL)

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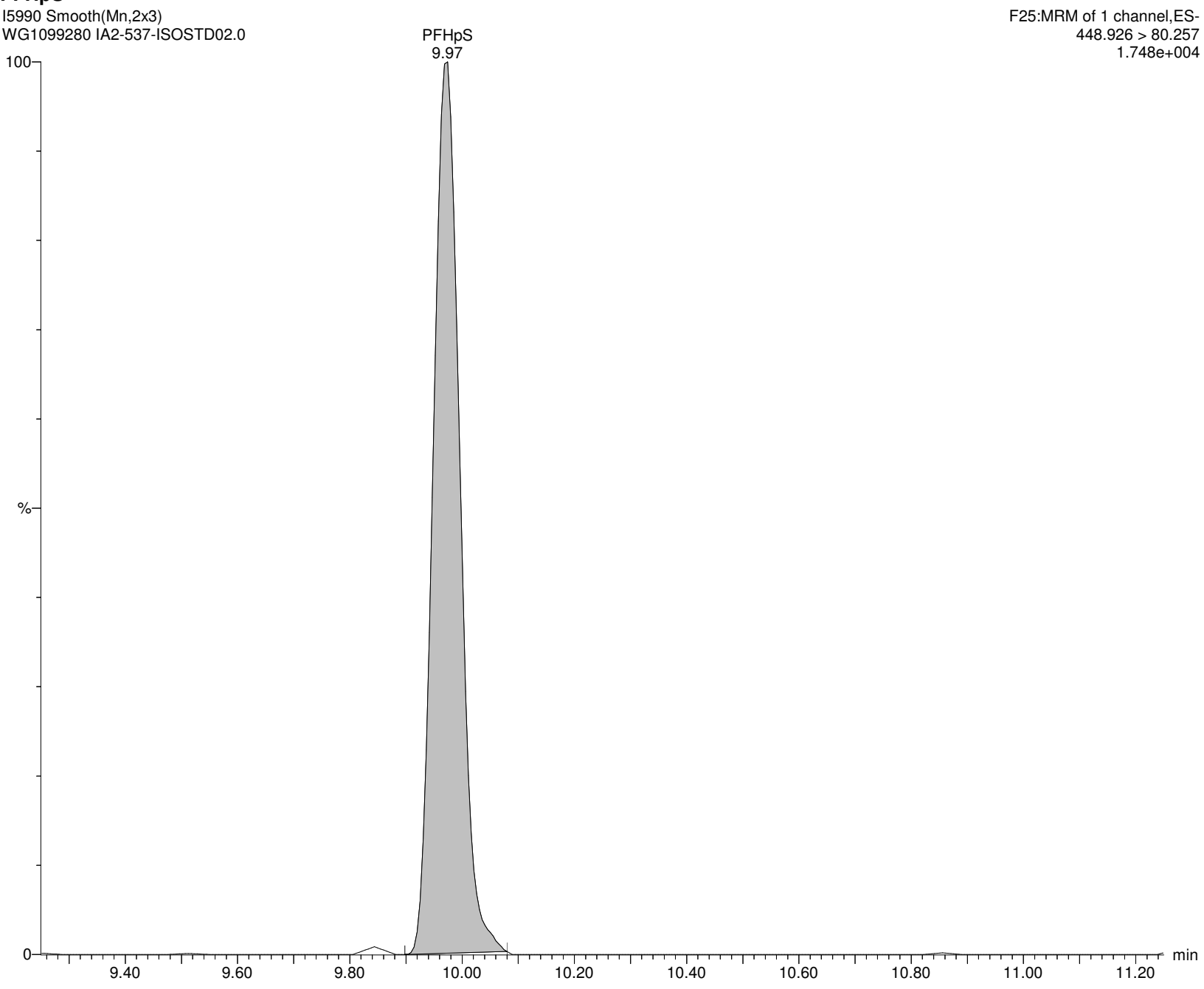

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

Name: I5990
ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
Time: 16:25:16
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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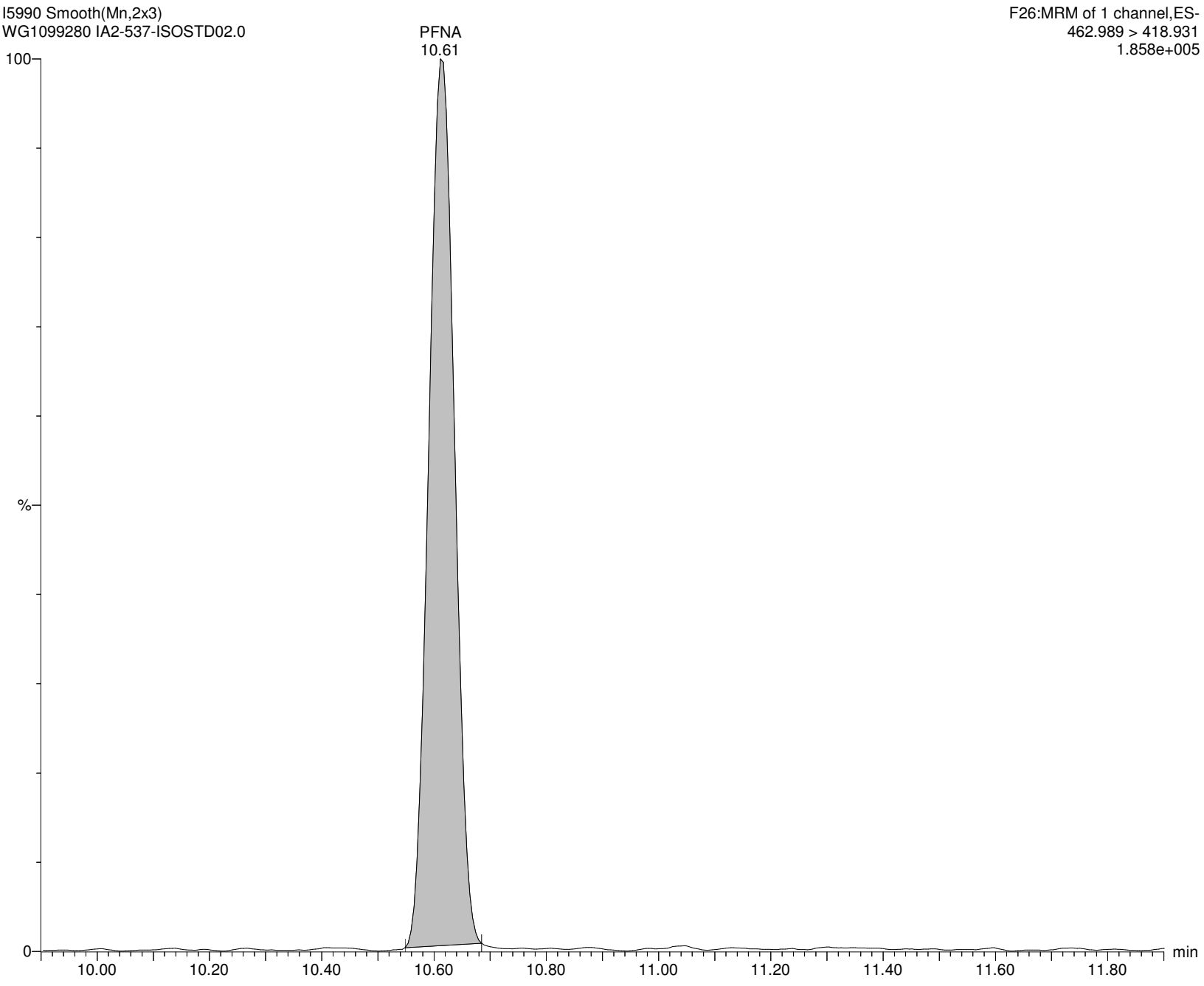

all concentration units in (ng/mL)

Alpha Analytical Inc.
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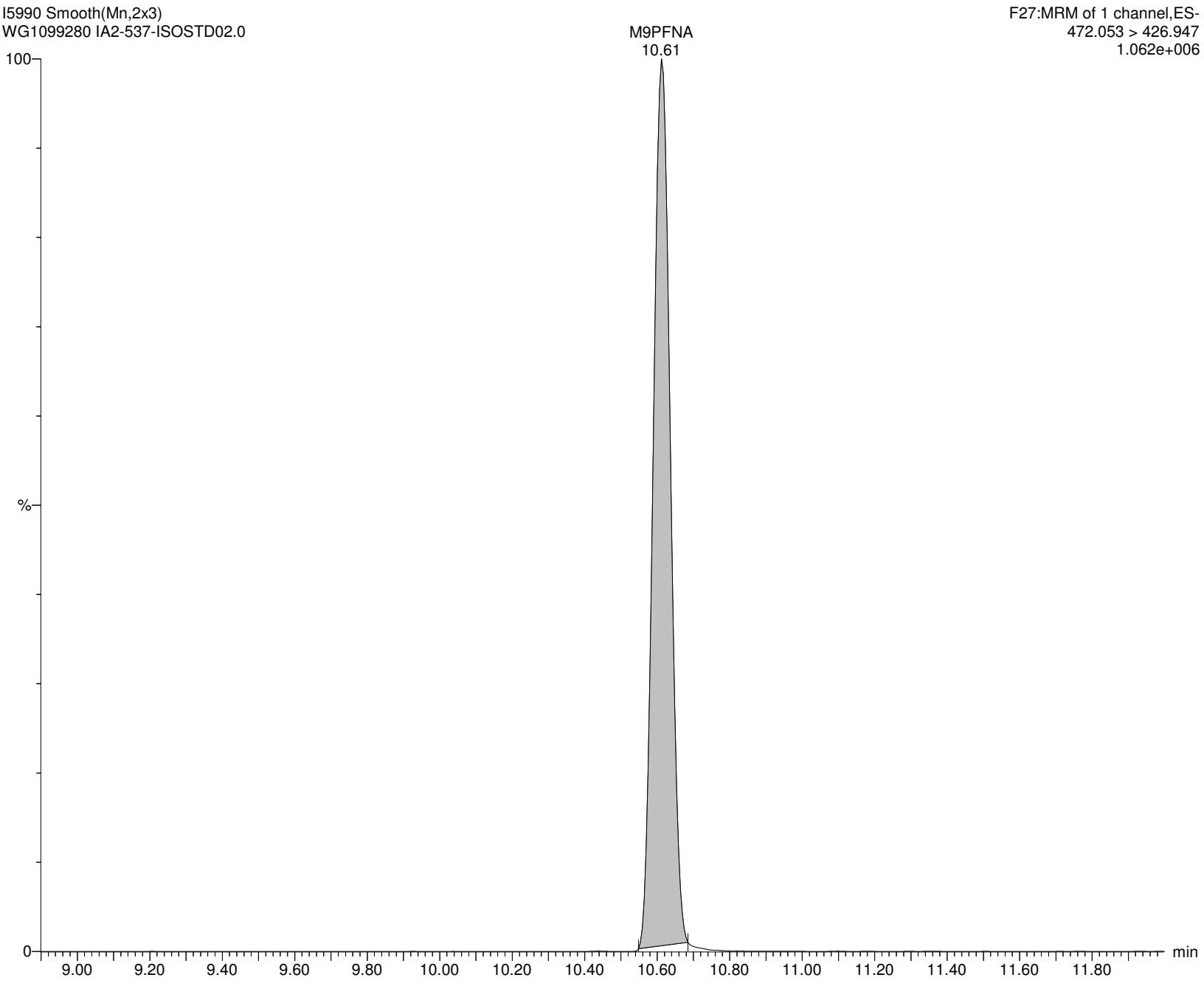

all concentration units in (ng/mL)

Alpha Analytical Inc.
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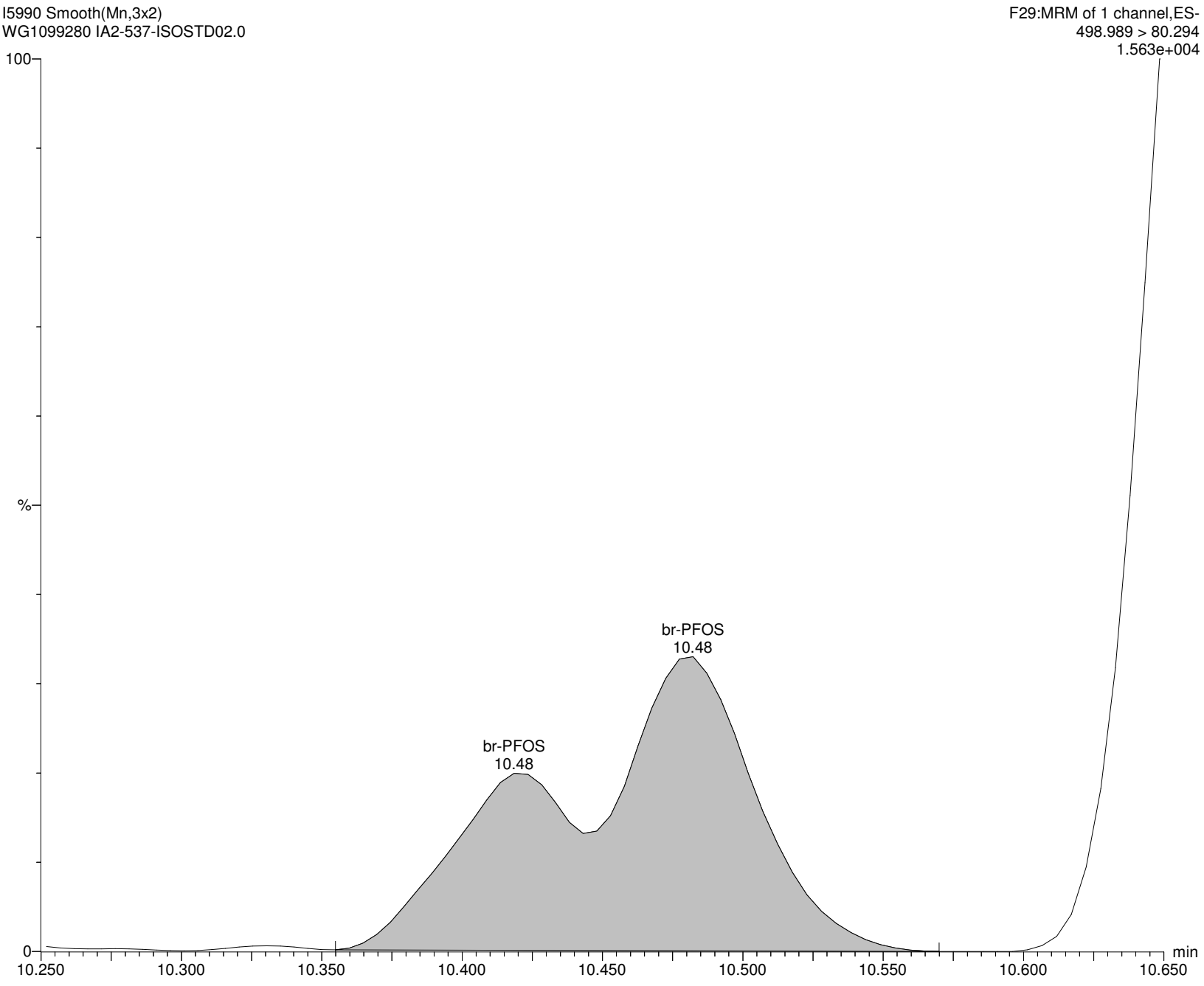

all concentration units in (ng/mL)

Alpha Analytical Inc.
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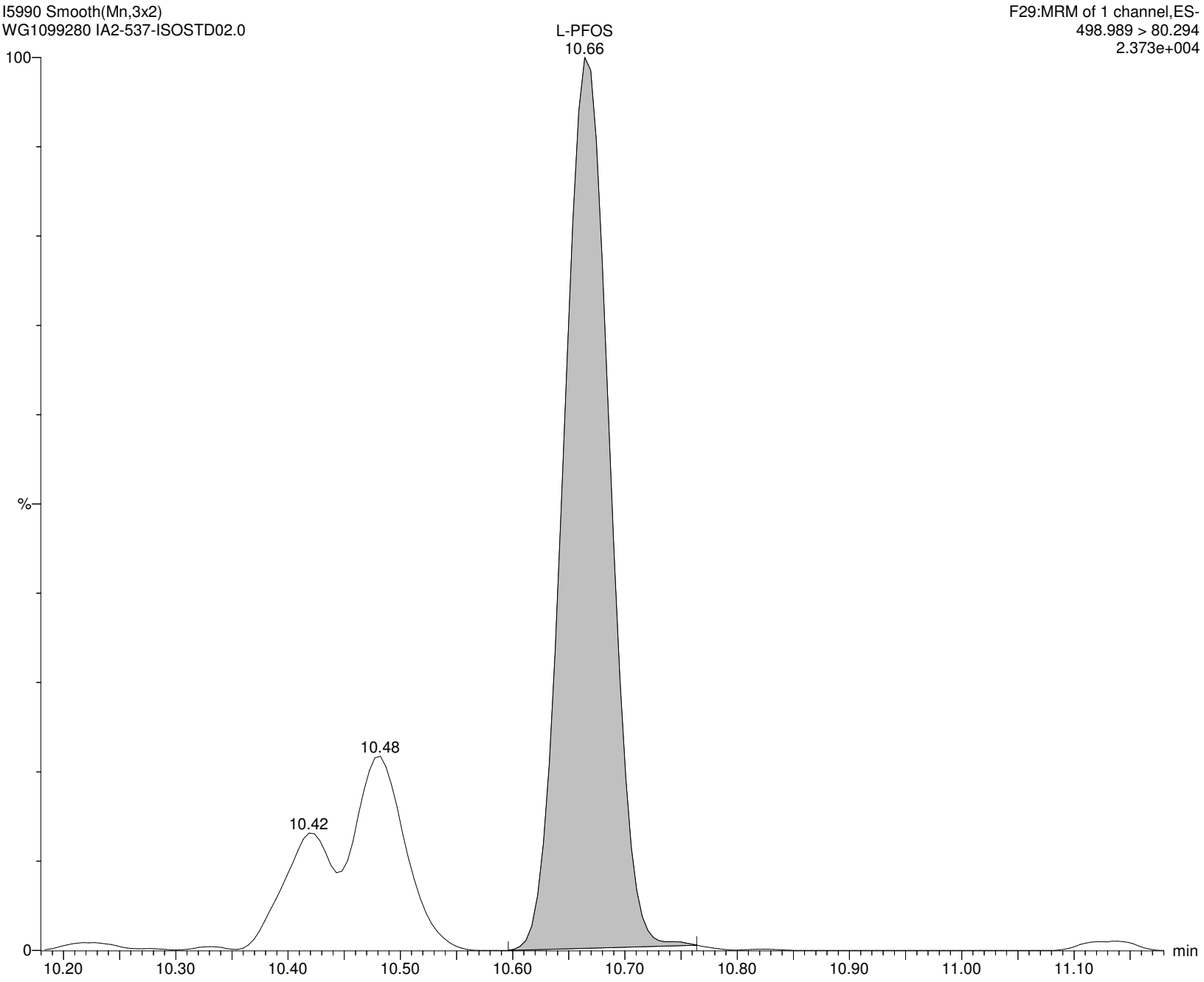

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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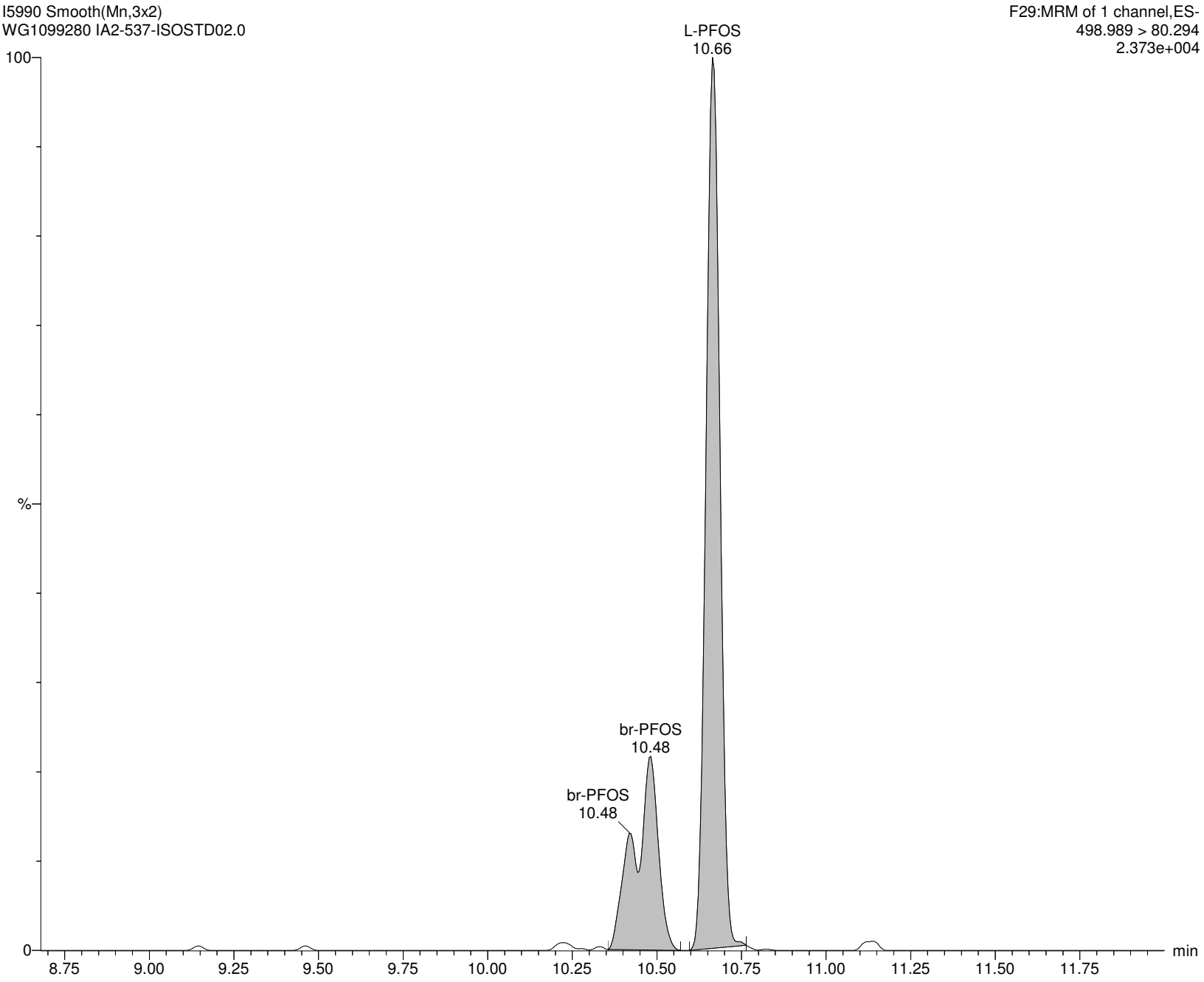

all concentration units in (ng/mL)

Alpha Analytical Inc.
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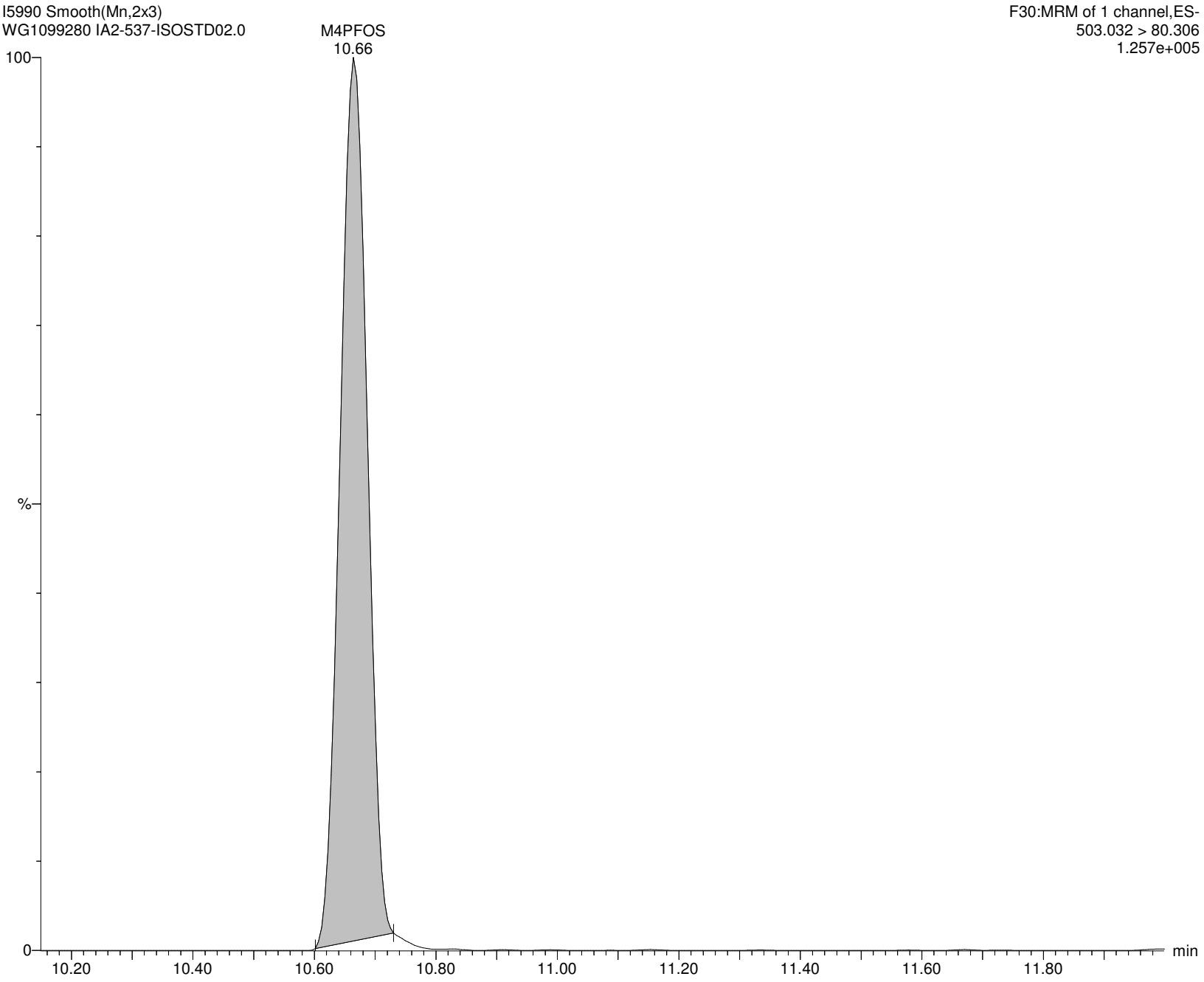

all concentration units in (ng/mL)

Alpha Analytical Inc.
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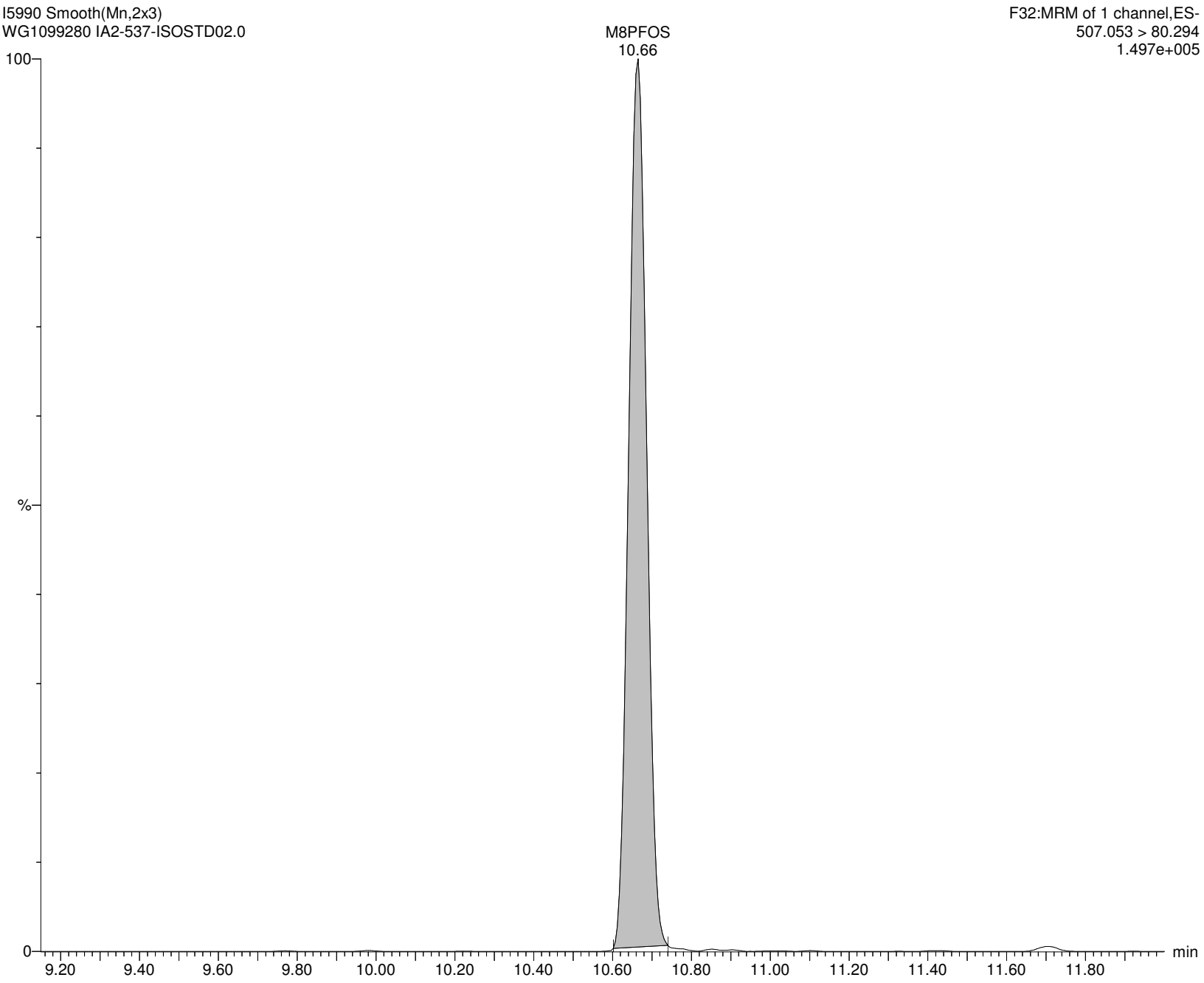

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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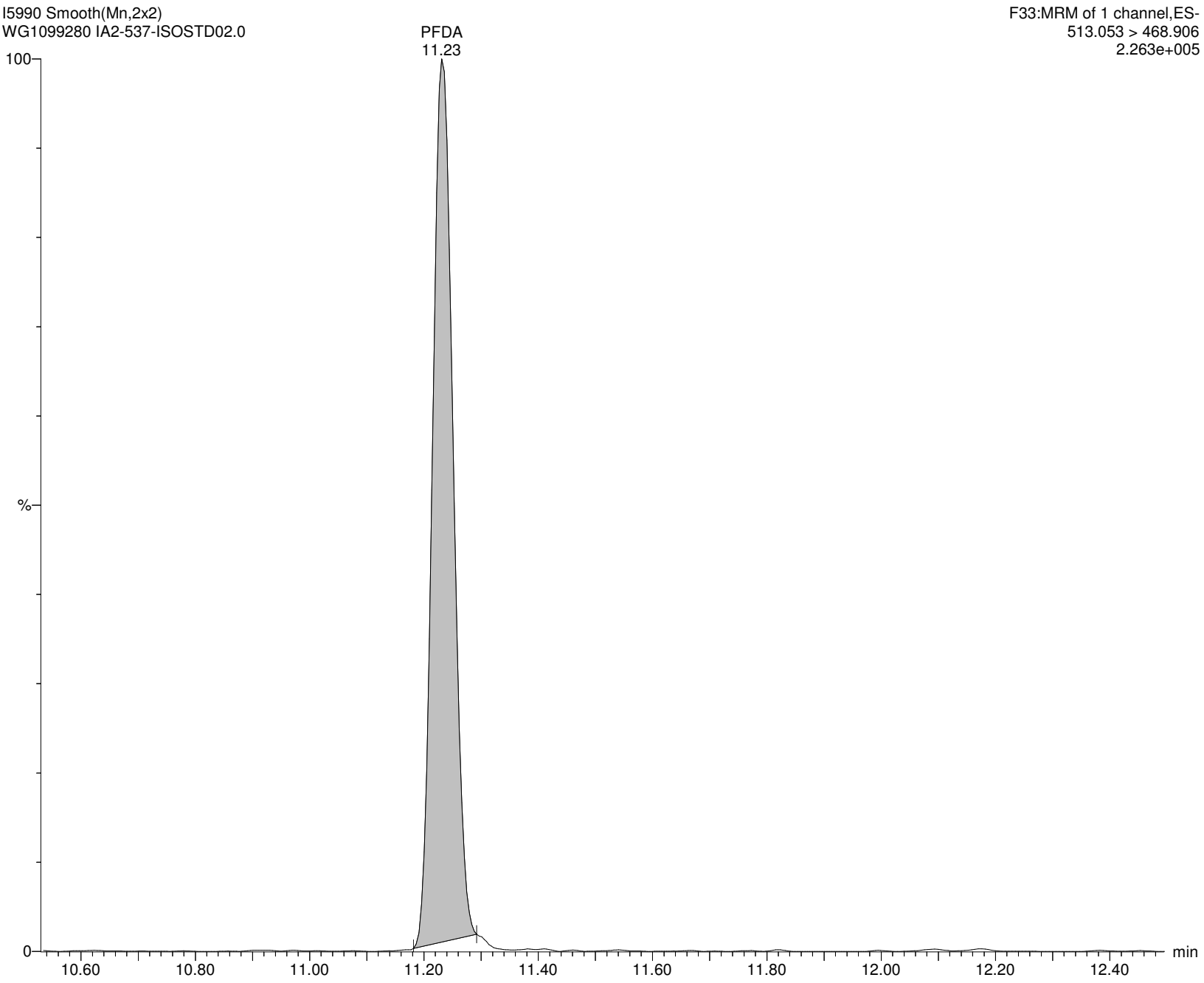

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5990
ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
Time: 16:25:16
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Vial: 2:A,3
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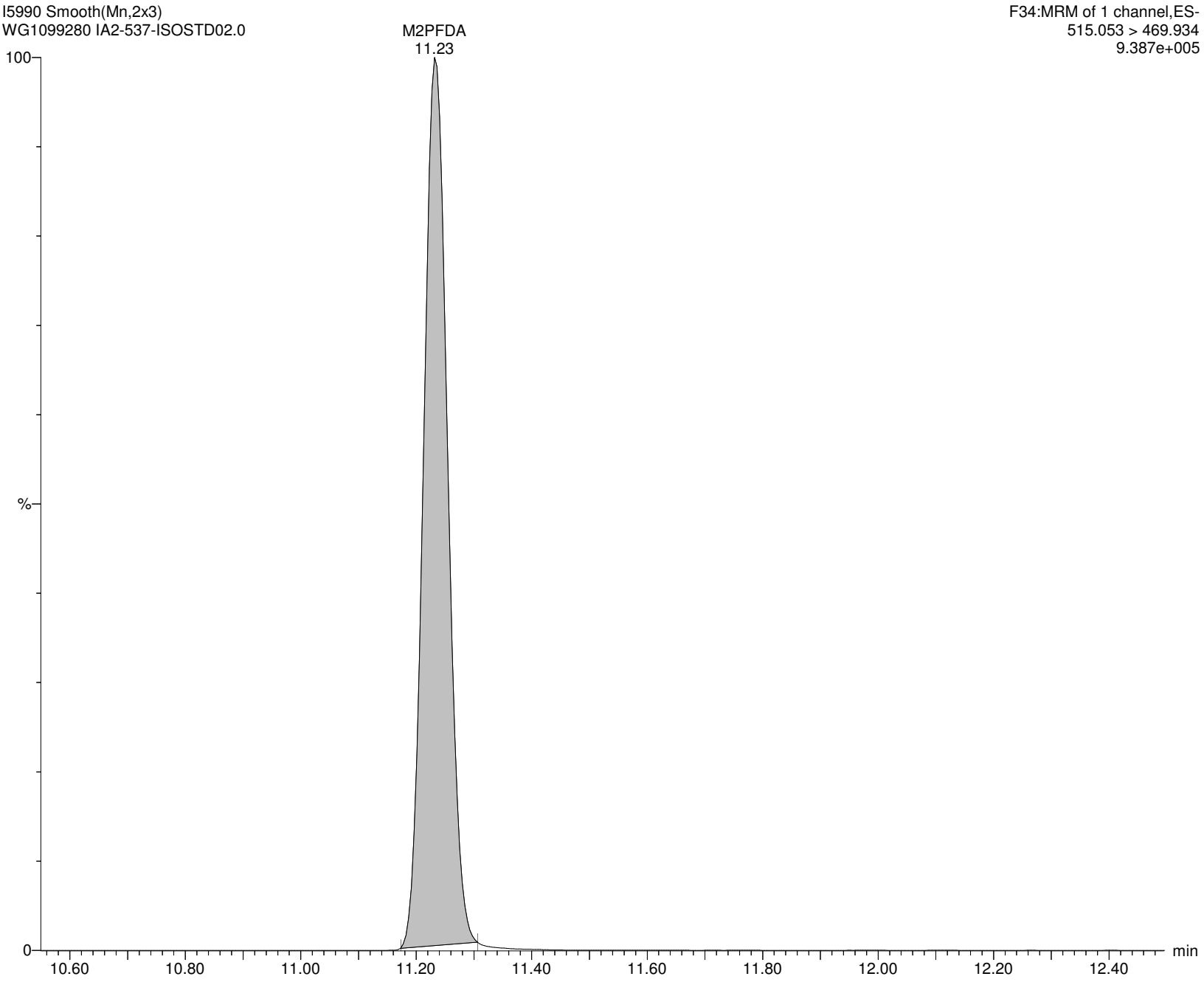

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5990
ID: IA2-537-ISOSTD02.0
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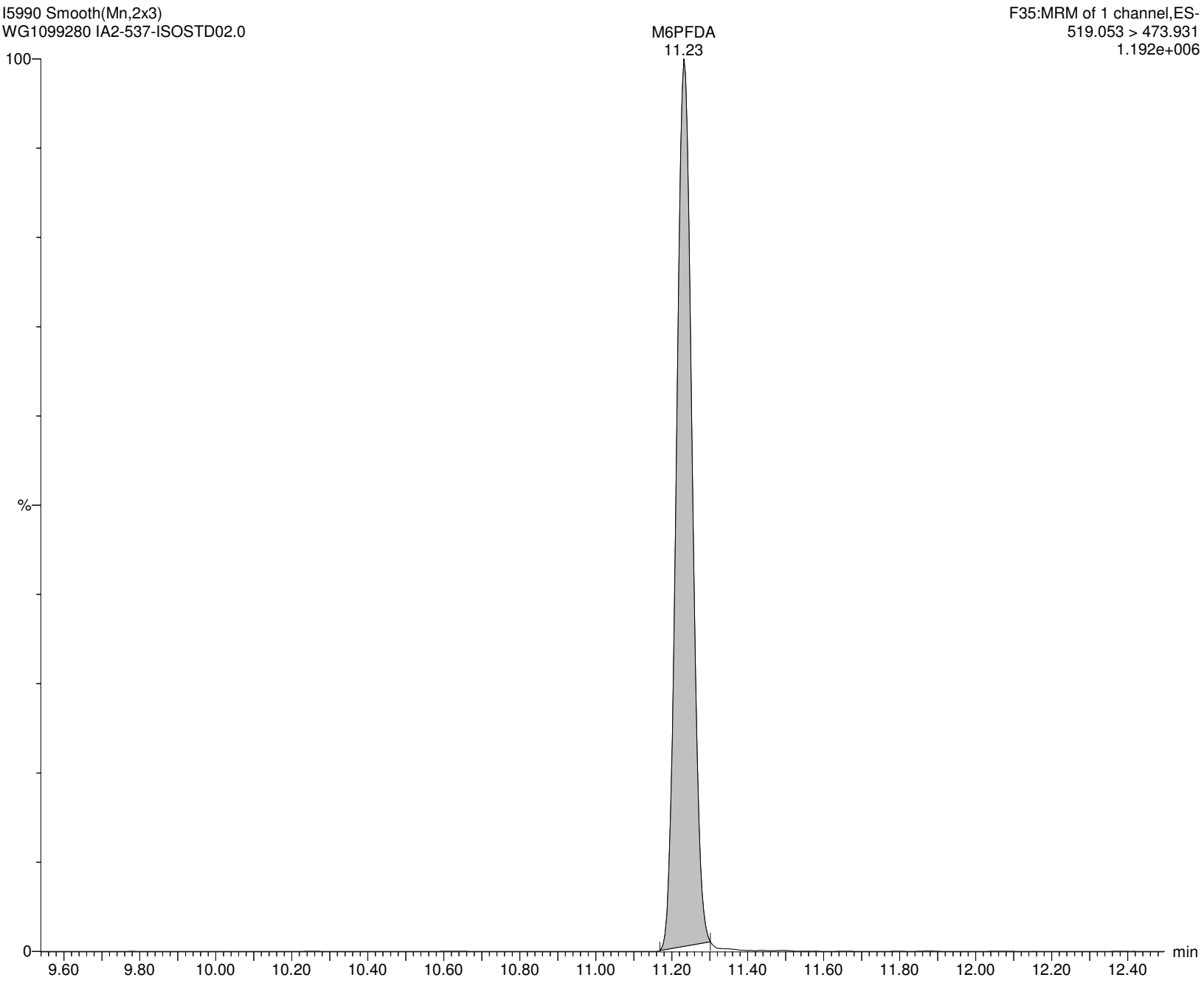

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

Name: I5990
ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
Time: 16:25:16
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Vial: 2:A,3
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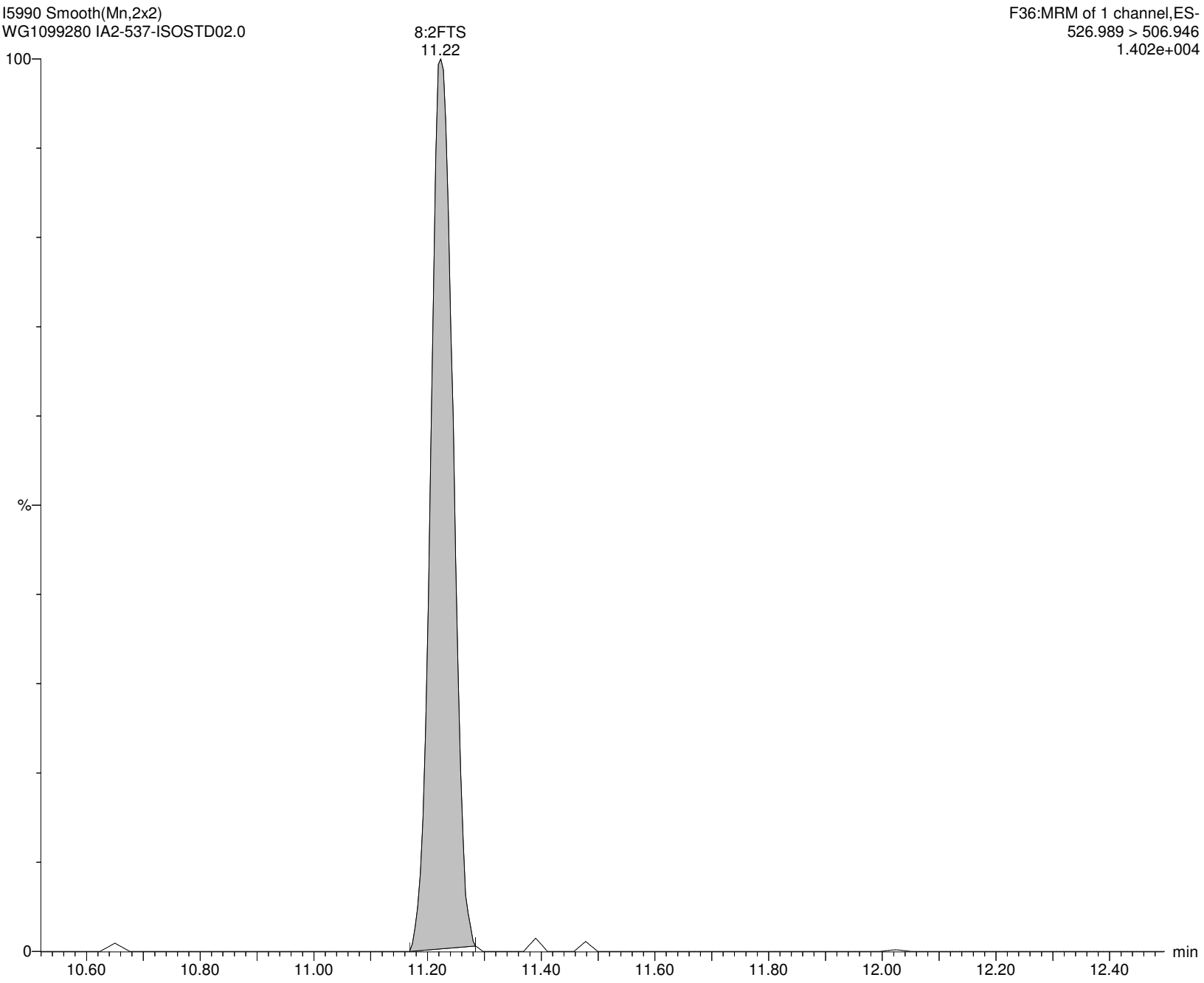
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

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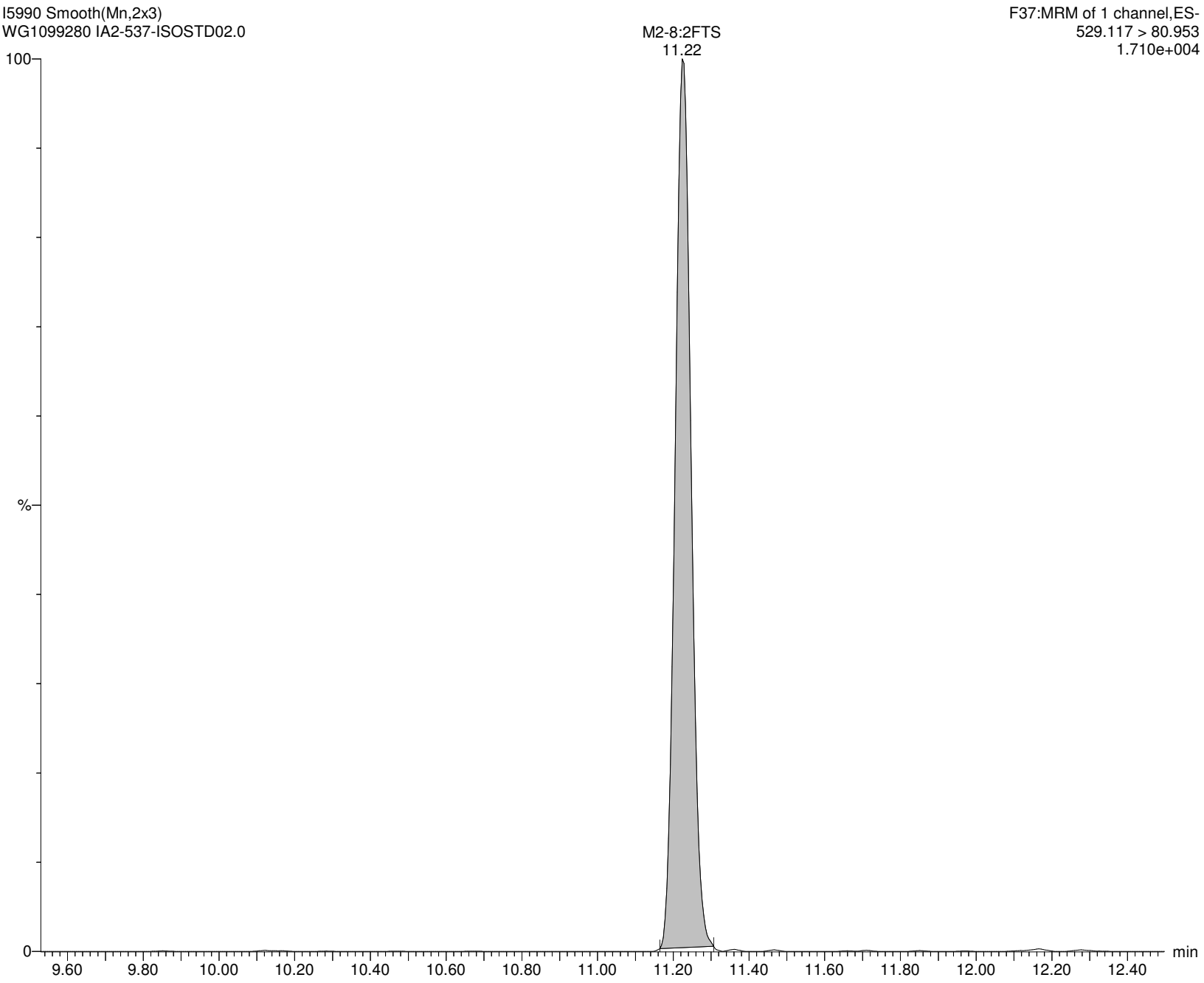
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:48 Eastern Daylight Time

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Date: 21-Mar-2018
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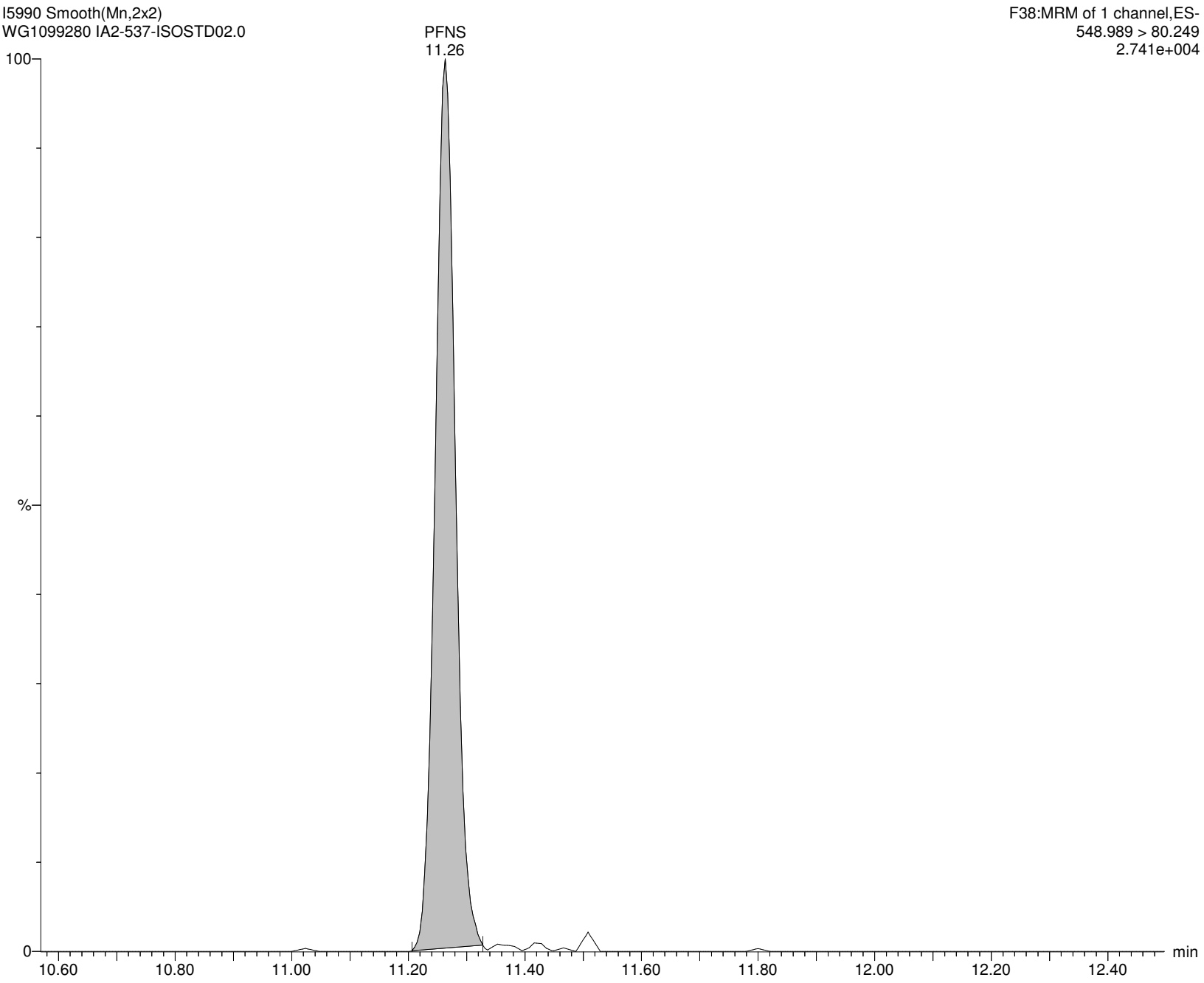

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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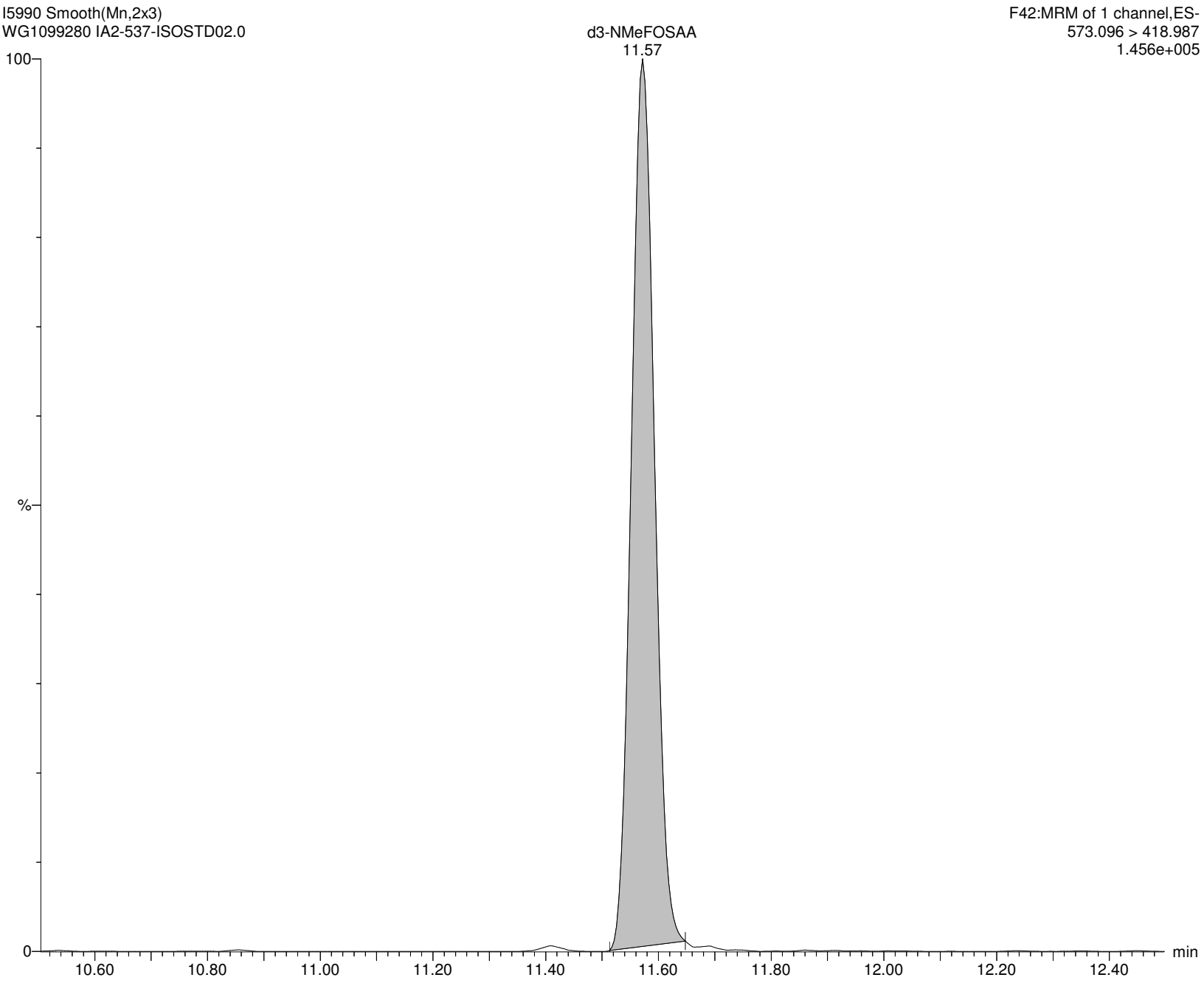
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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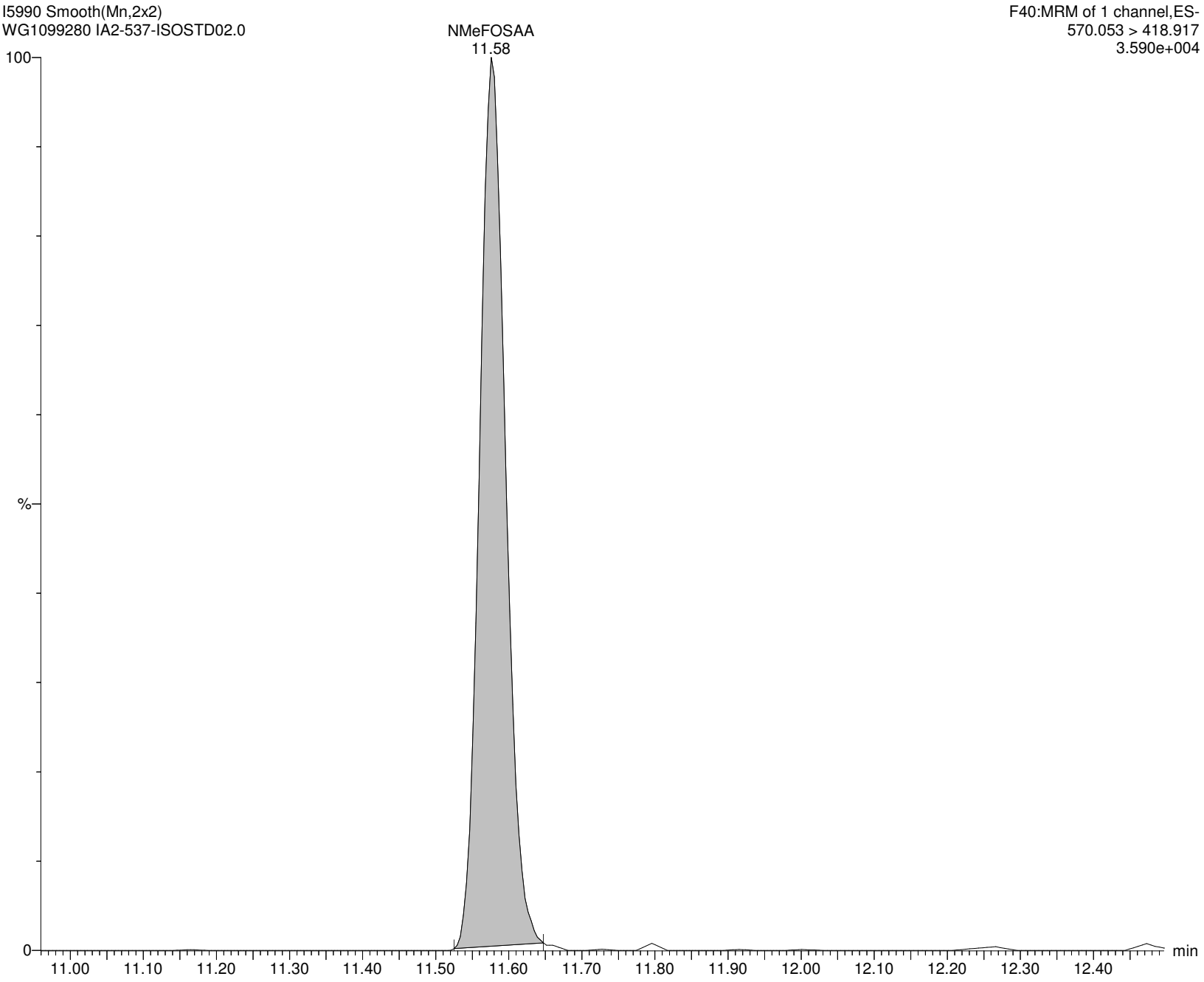

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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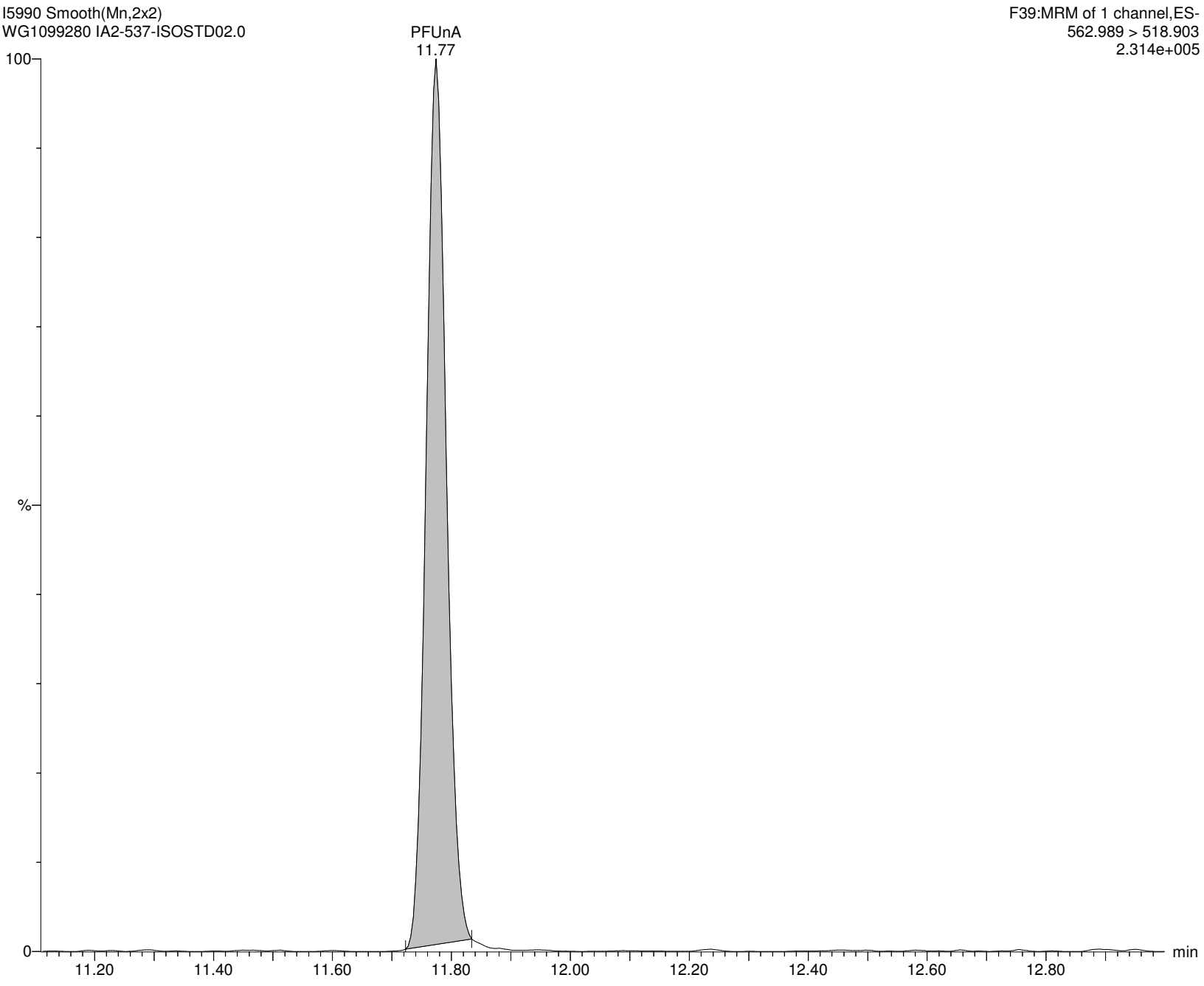

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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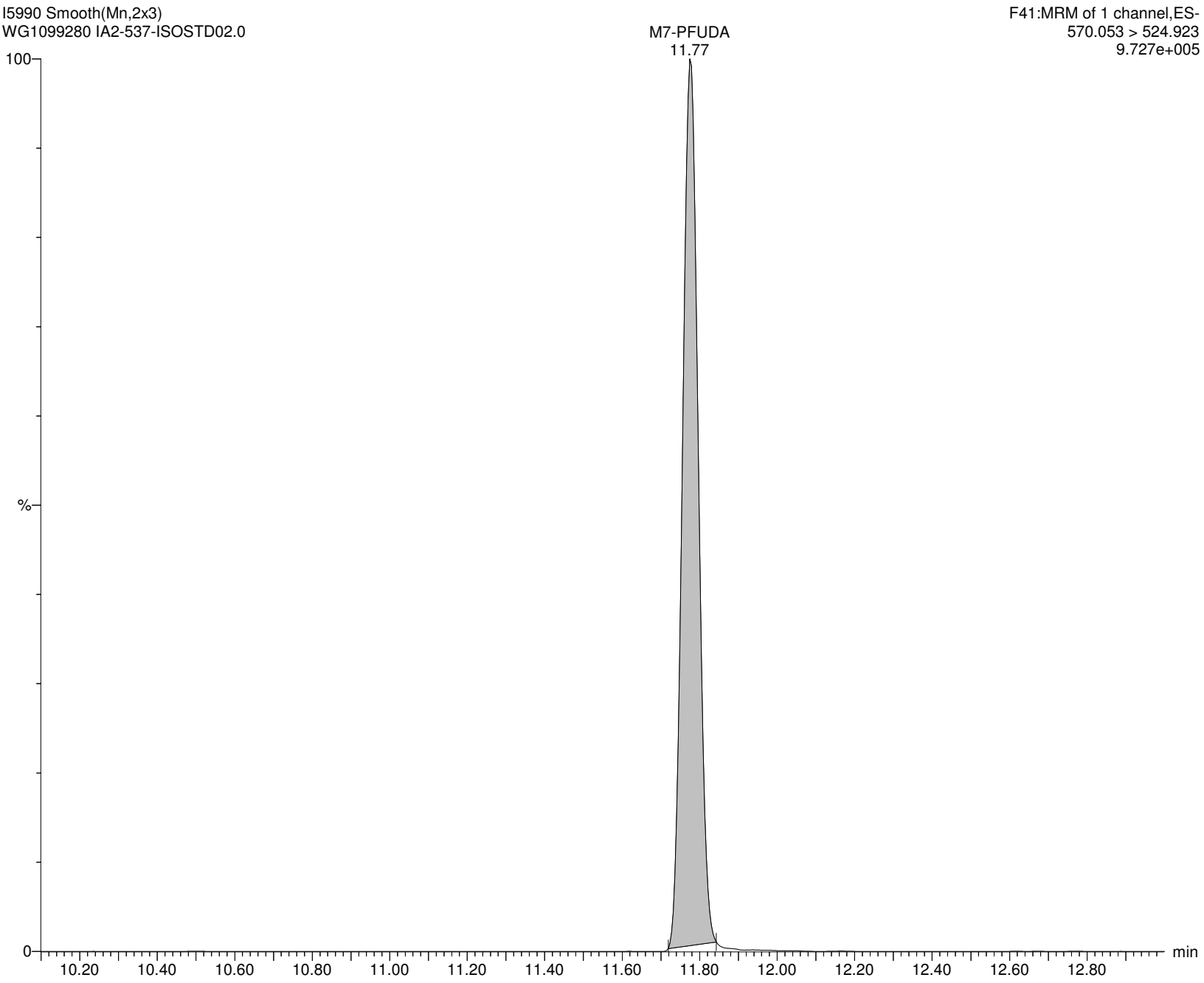
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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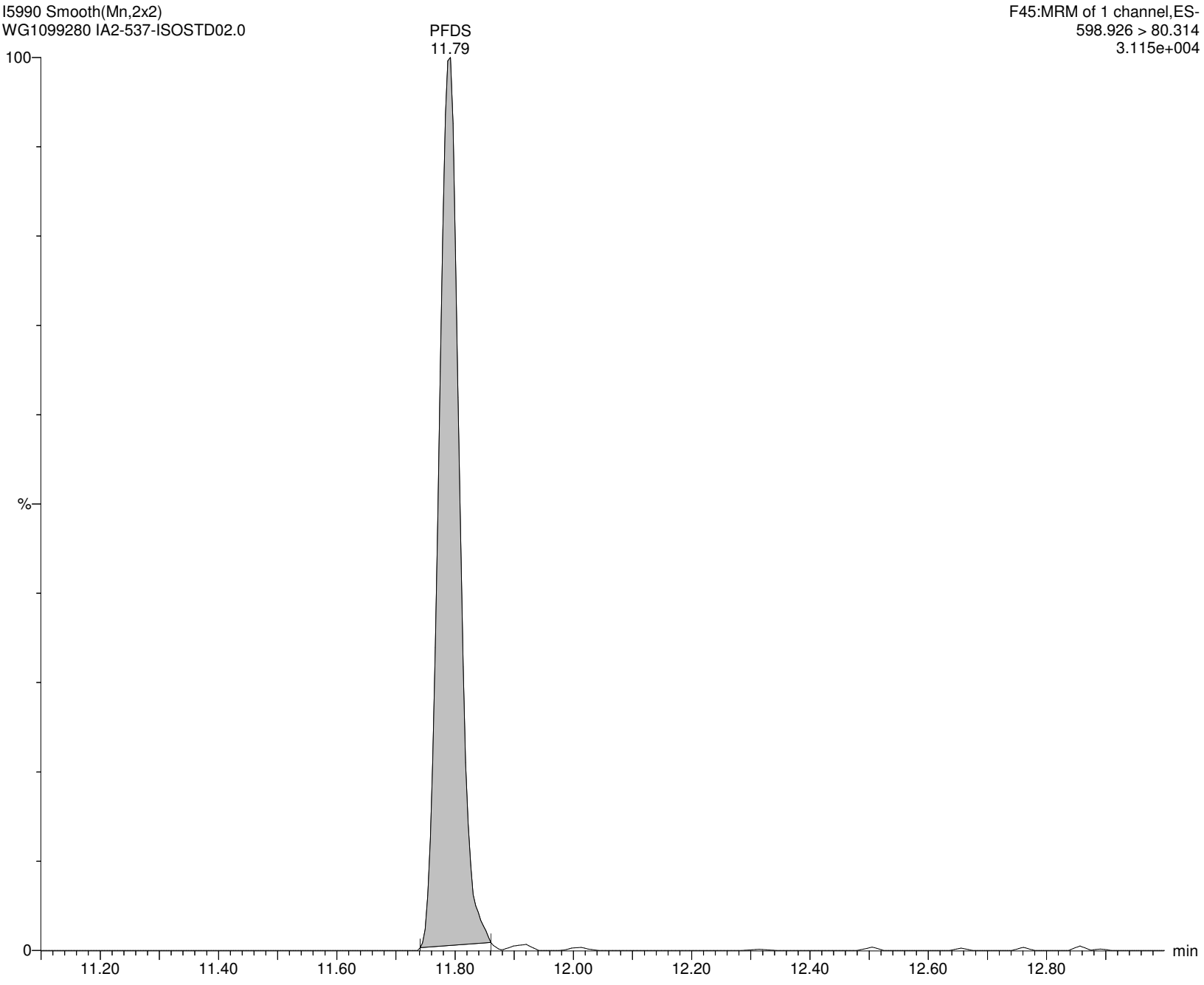

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5990
ID: IA2-537-ISOSTD02.0
Date: 21-Mar-2018
Time: 16:25:16
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,3
Instrument: XEVO-TQSmicro#QEA0276
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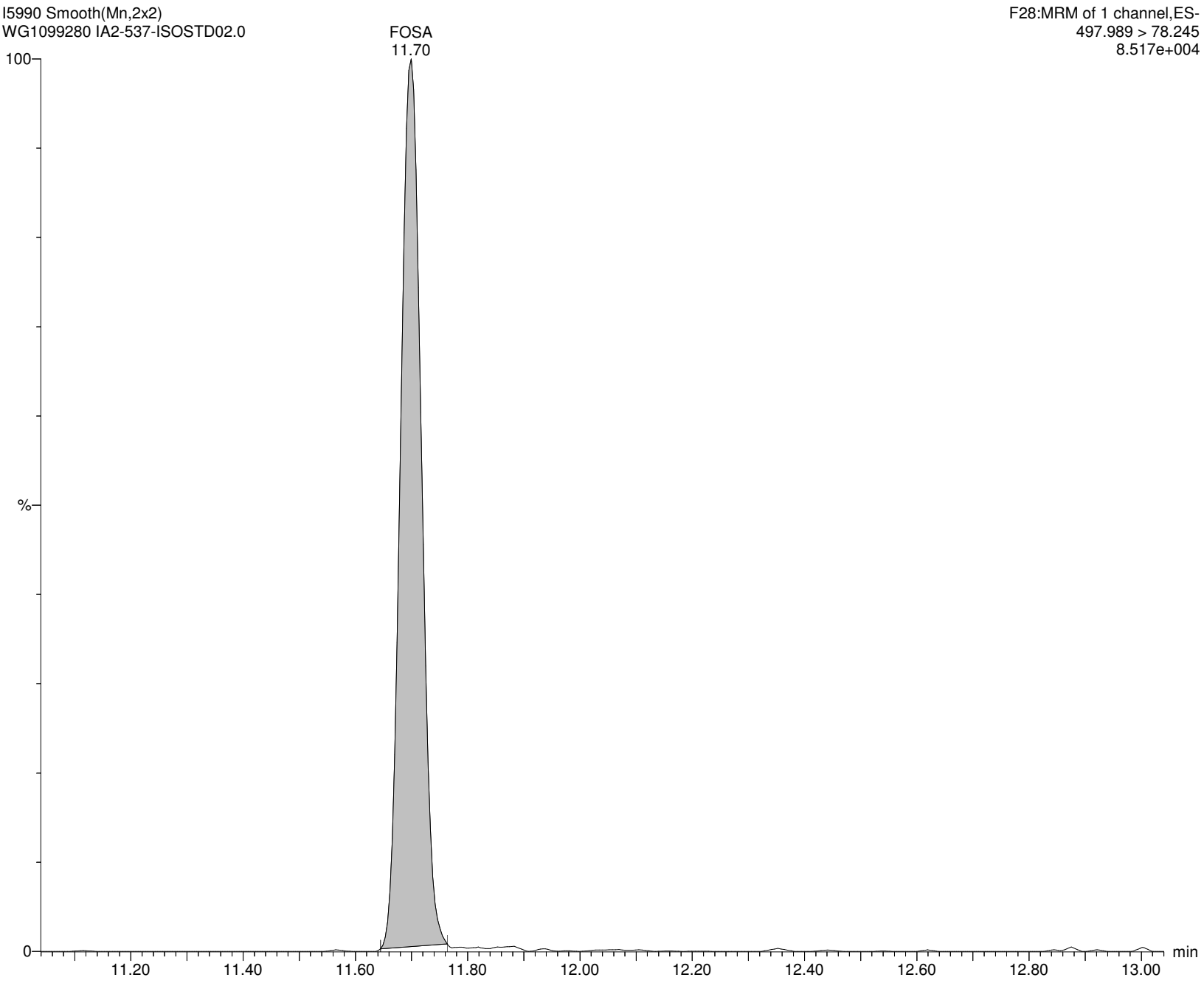

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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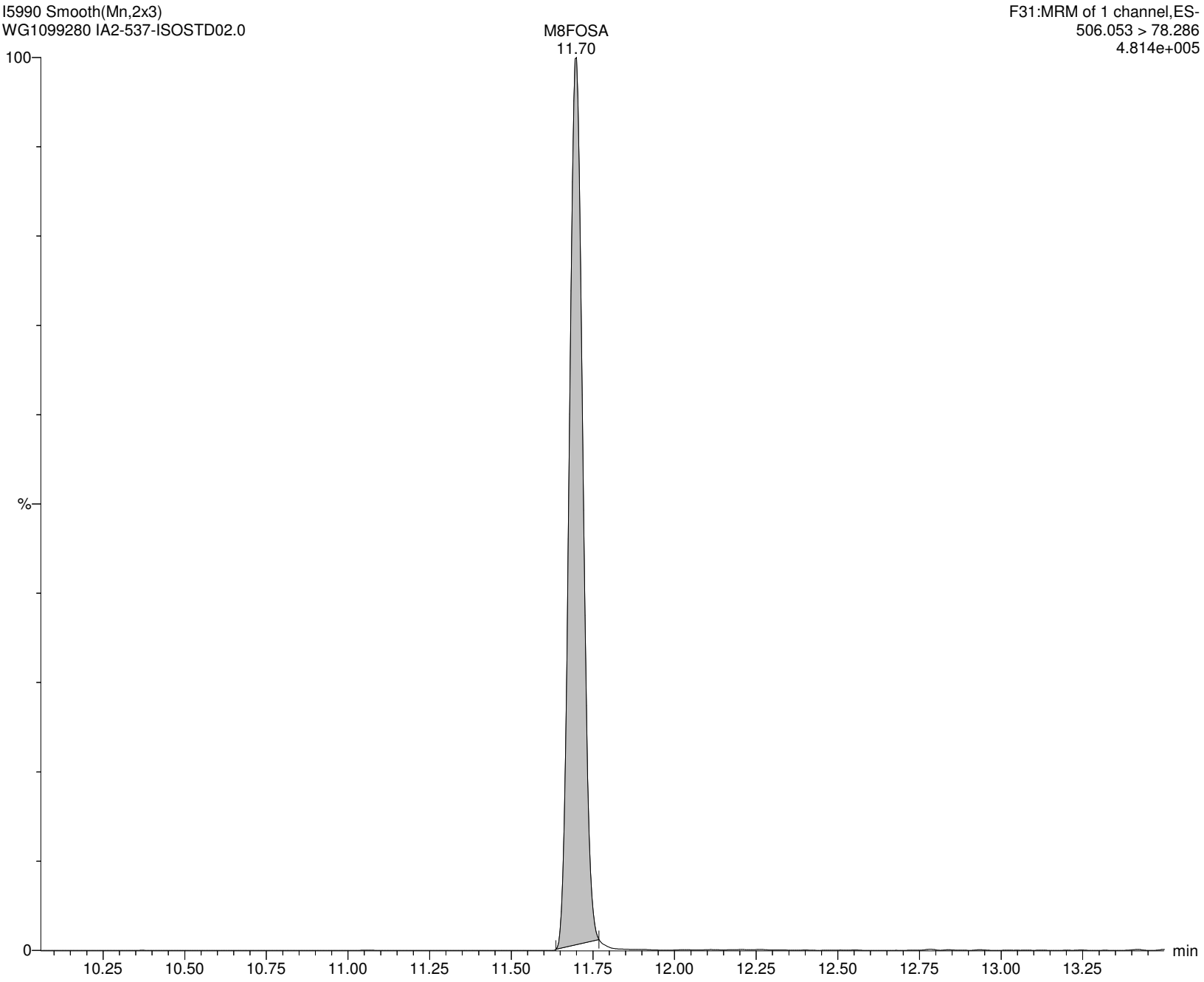

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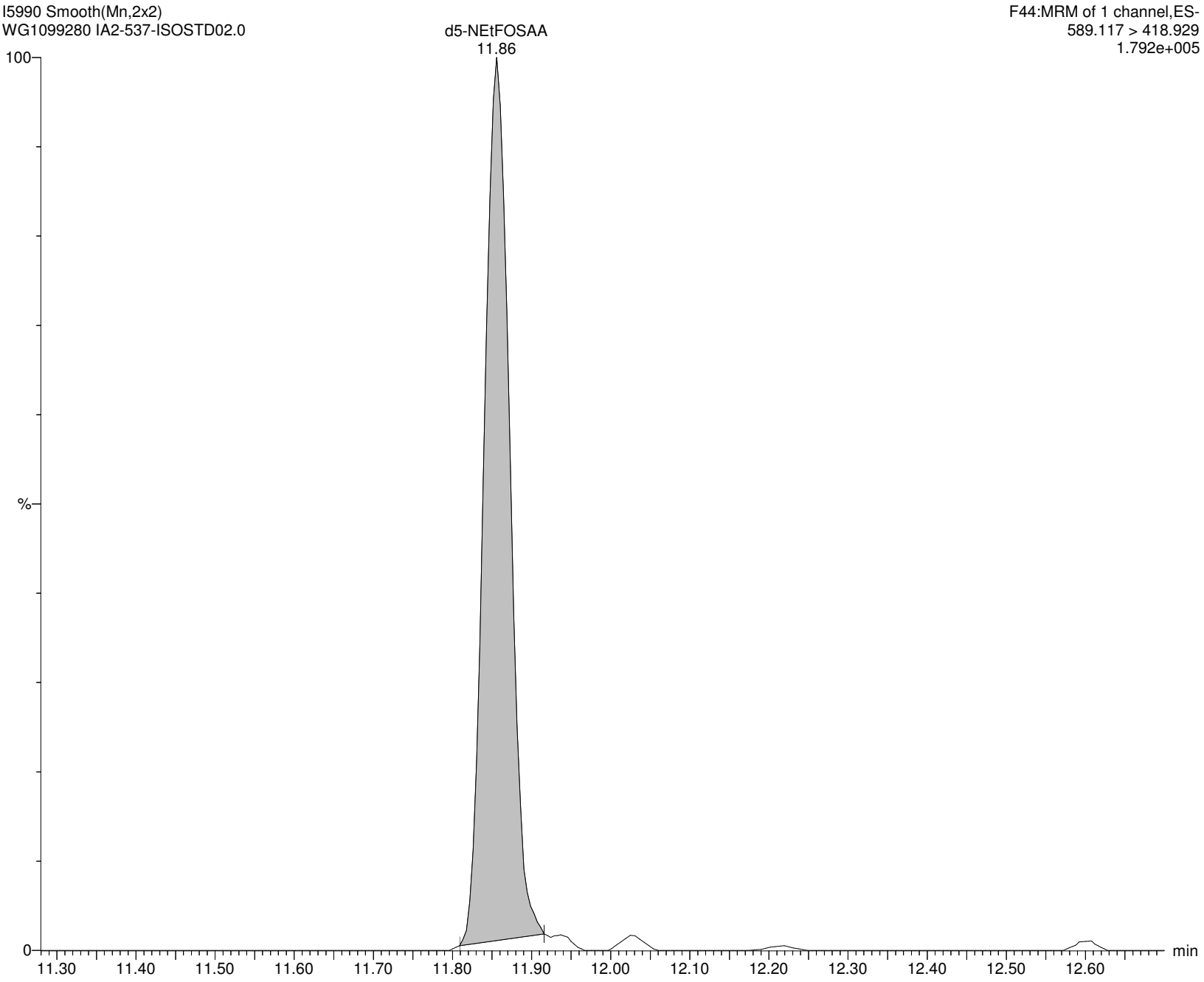

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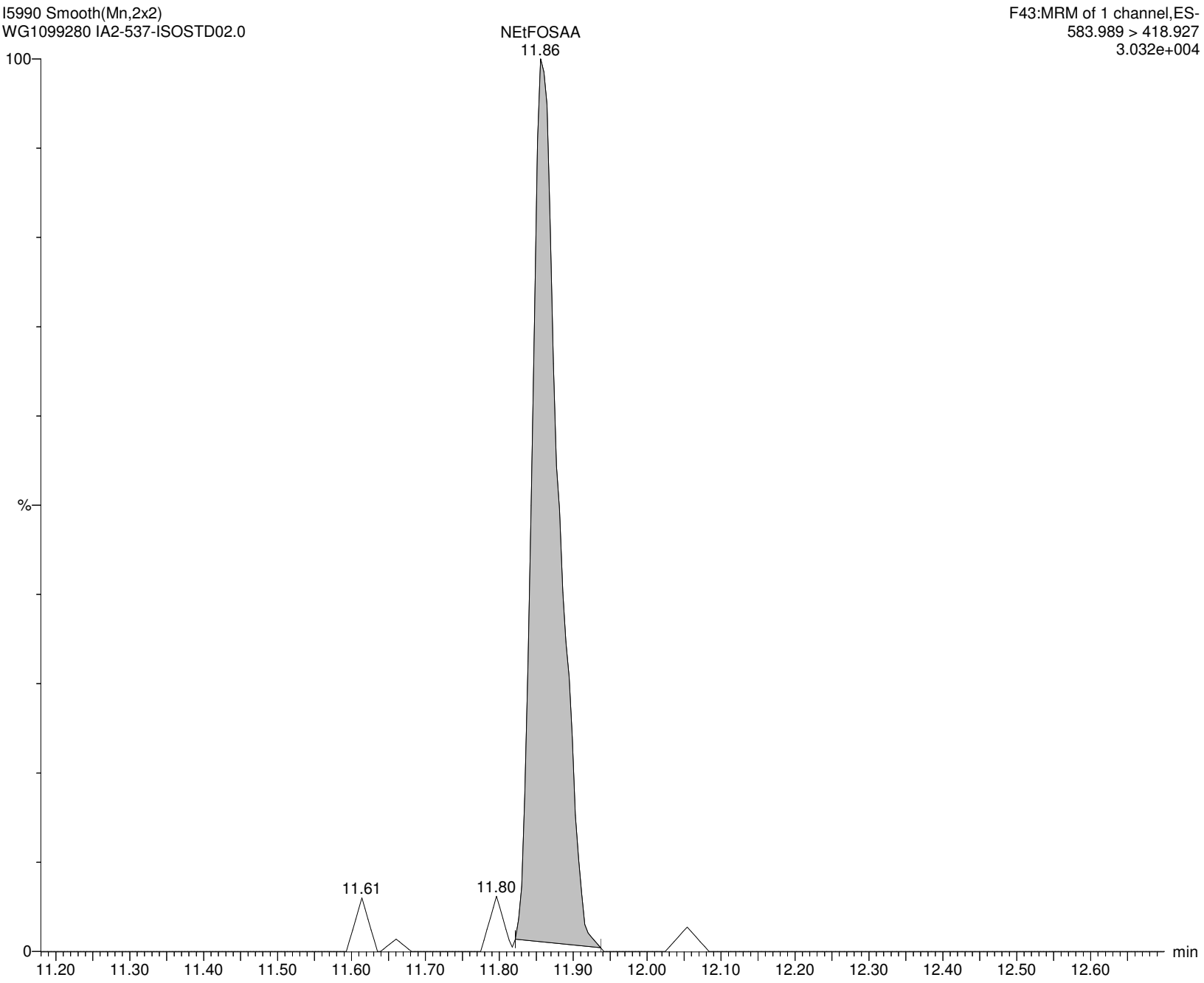

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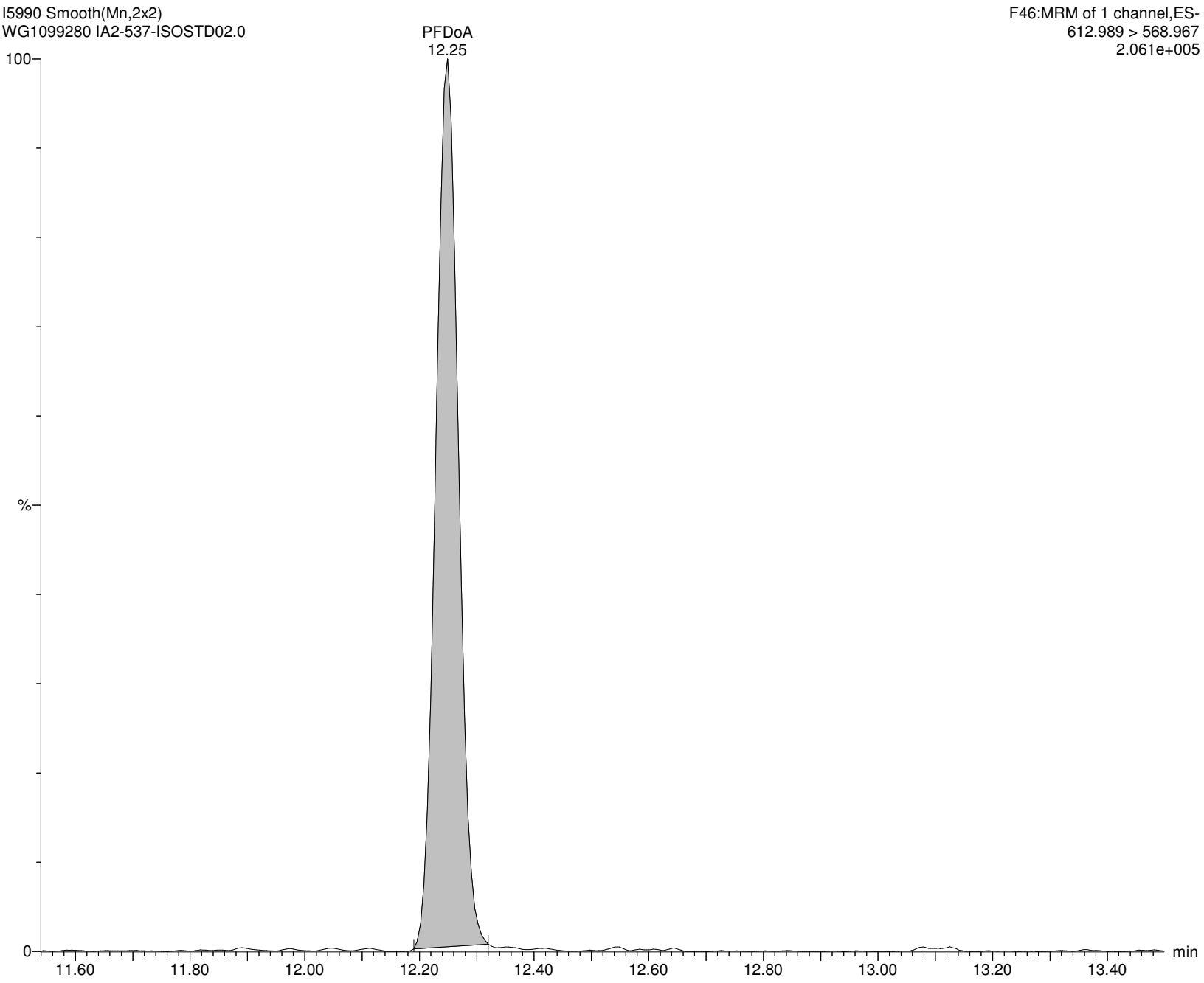

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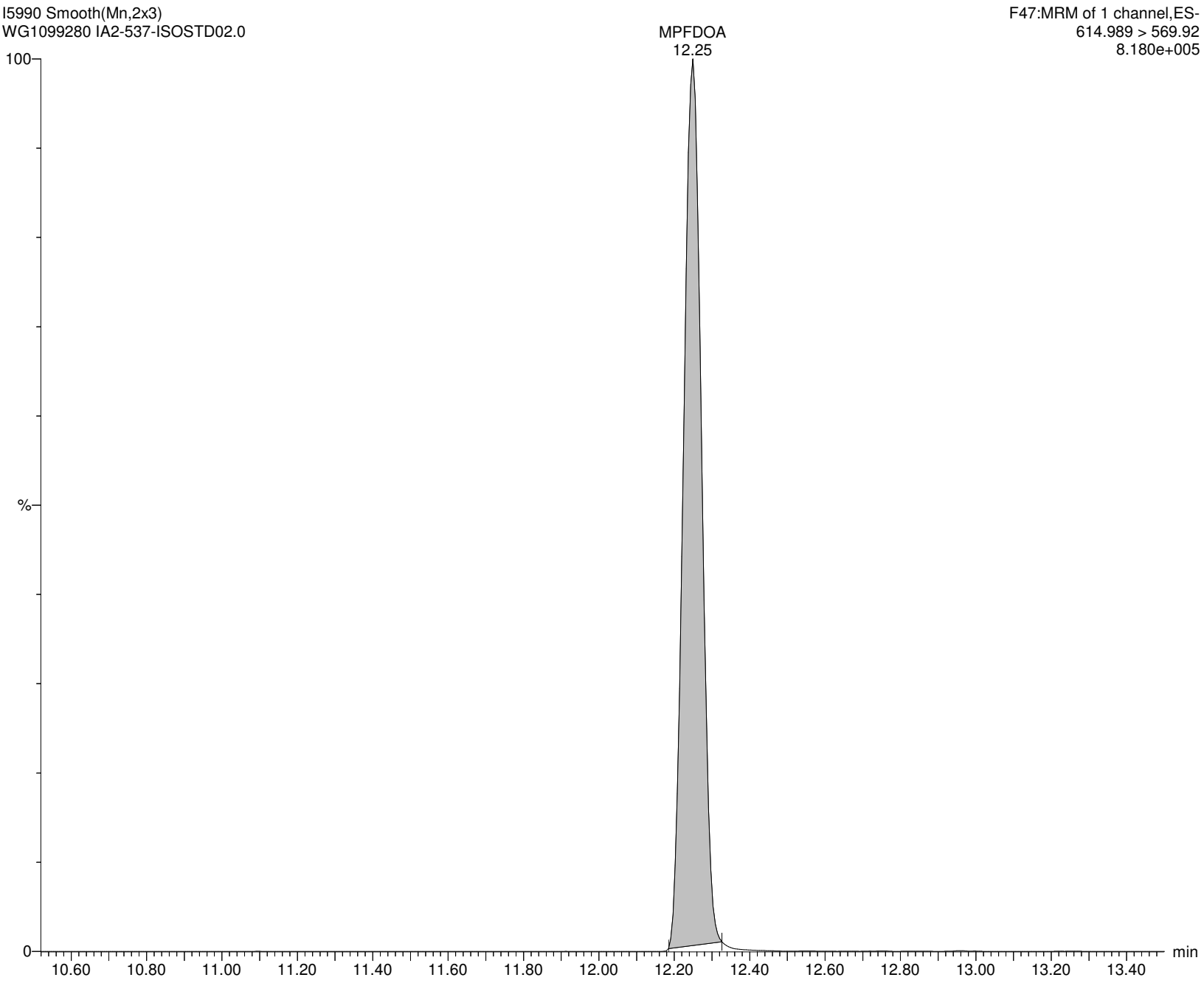

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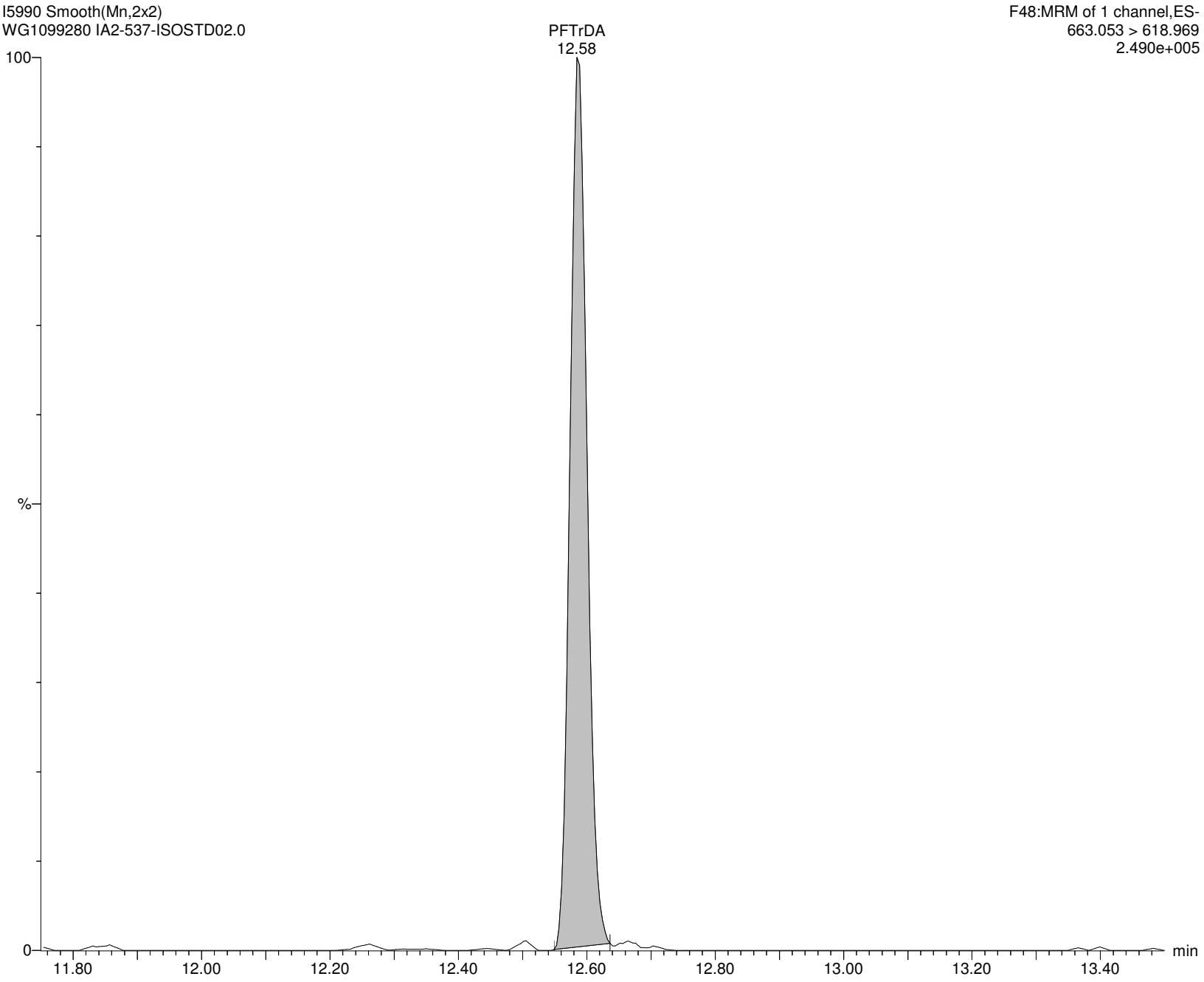

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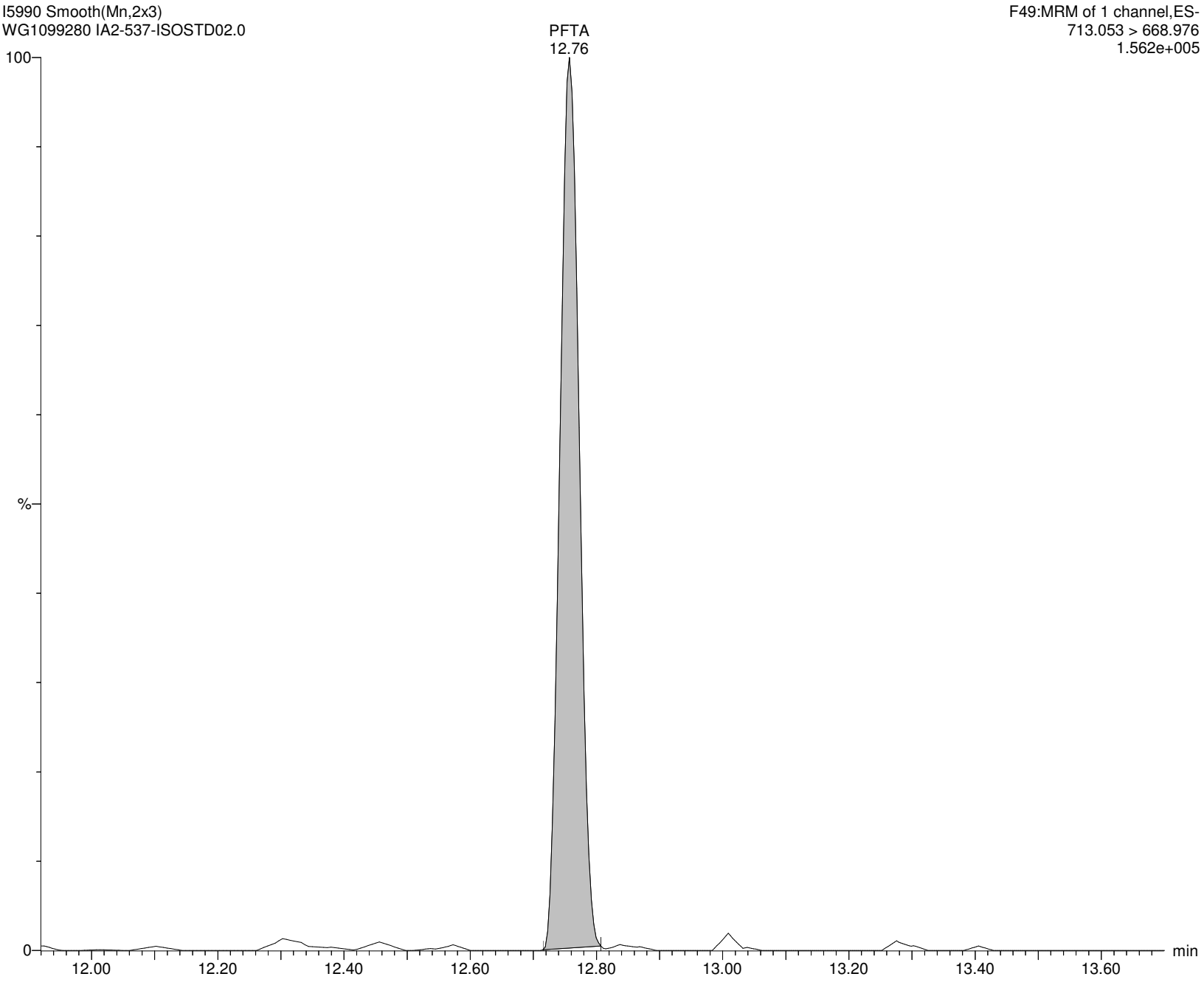

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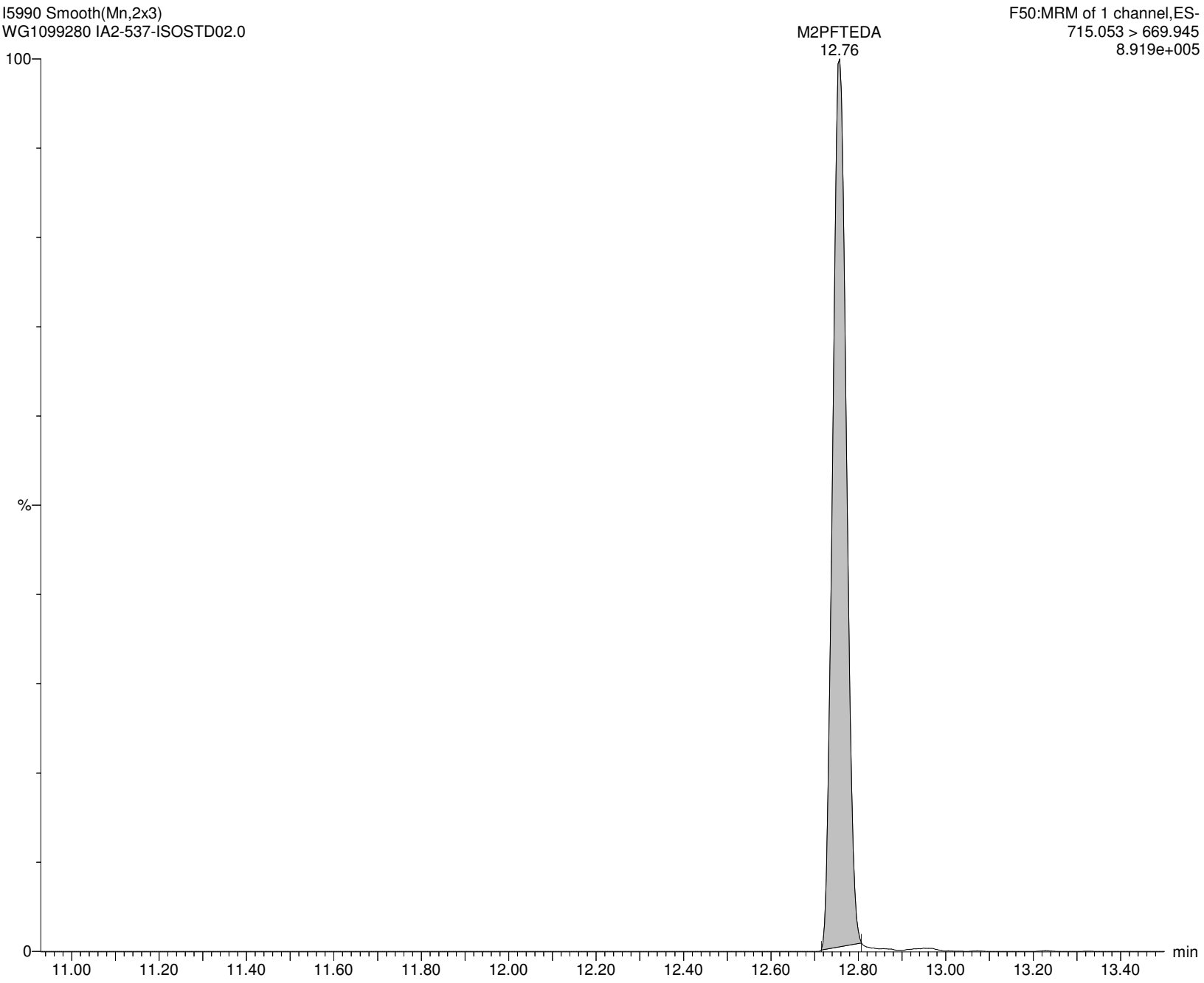

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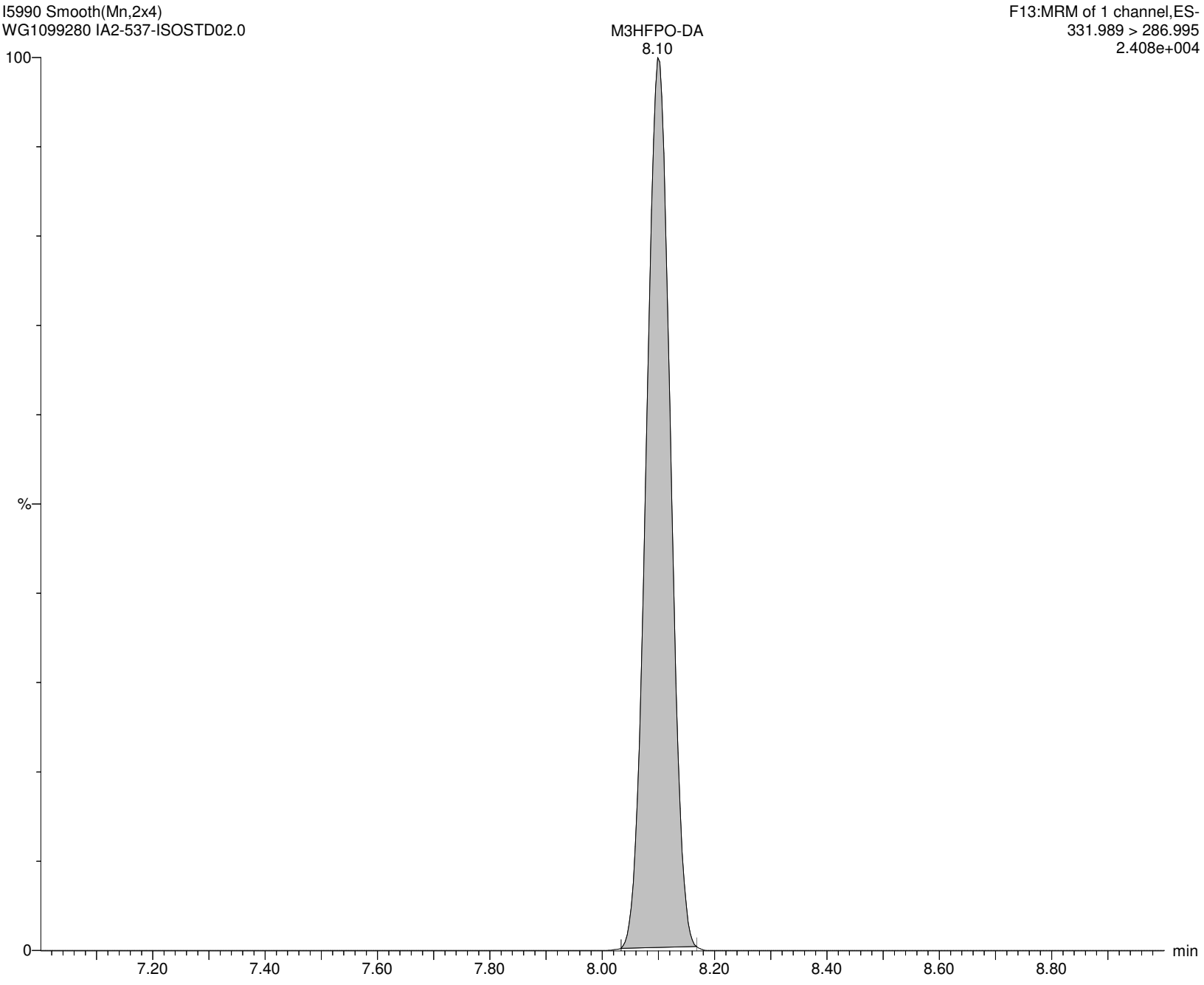

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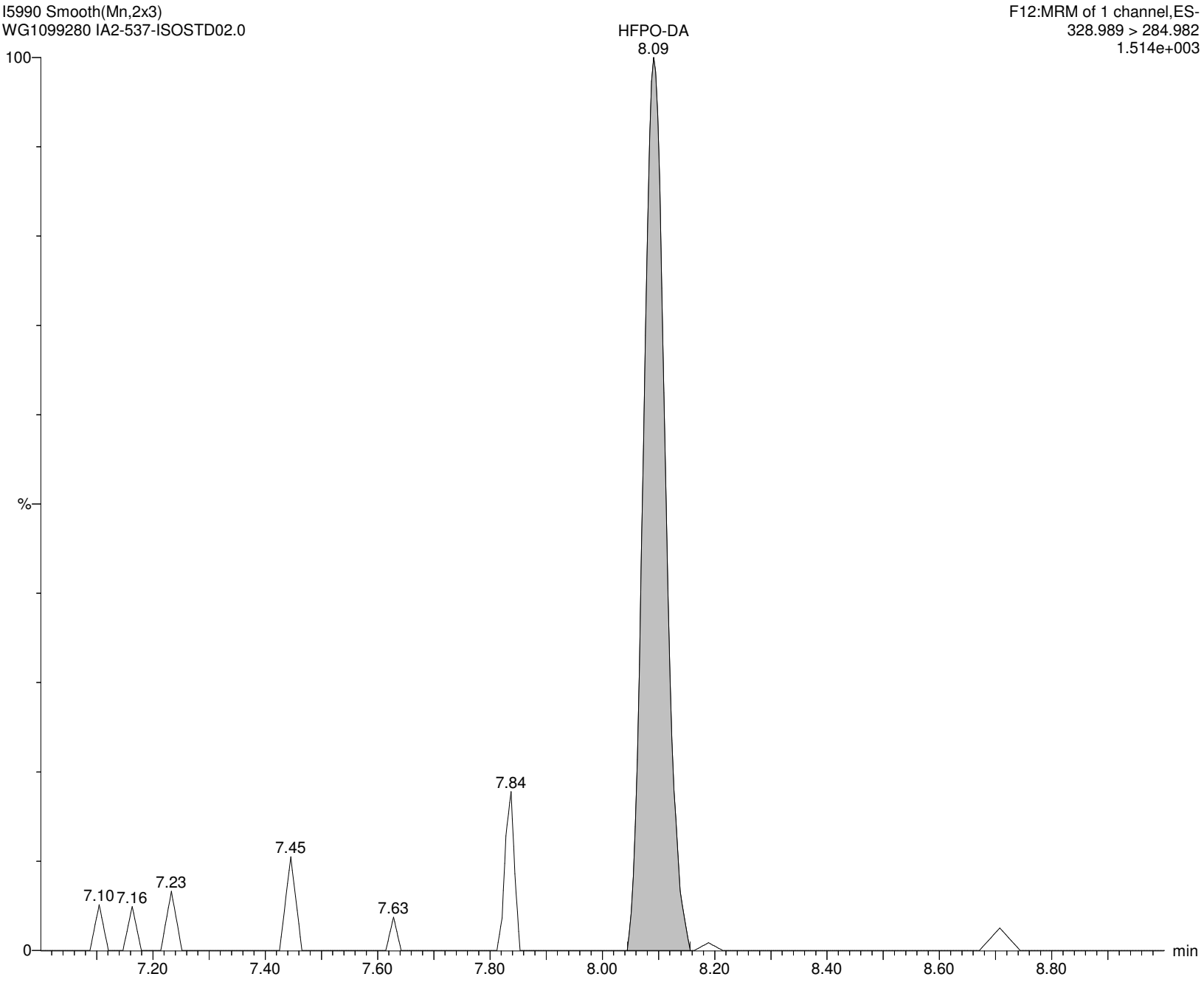

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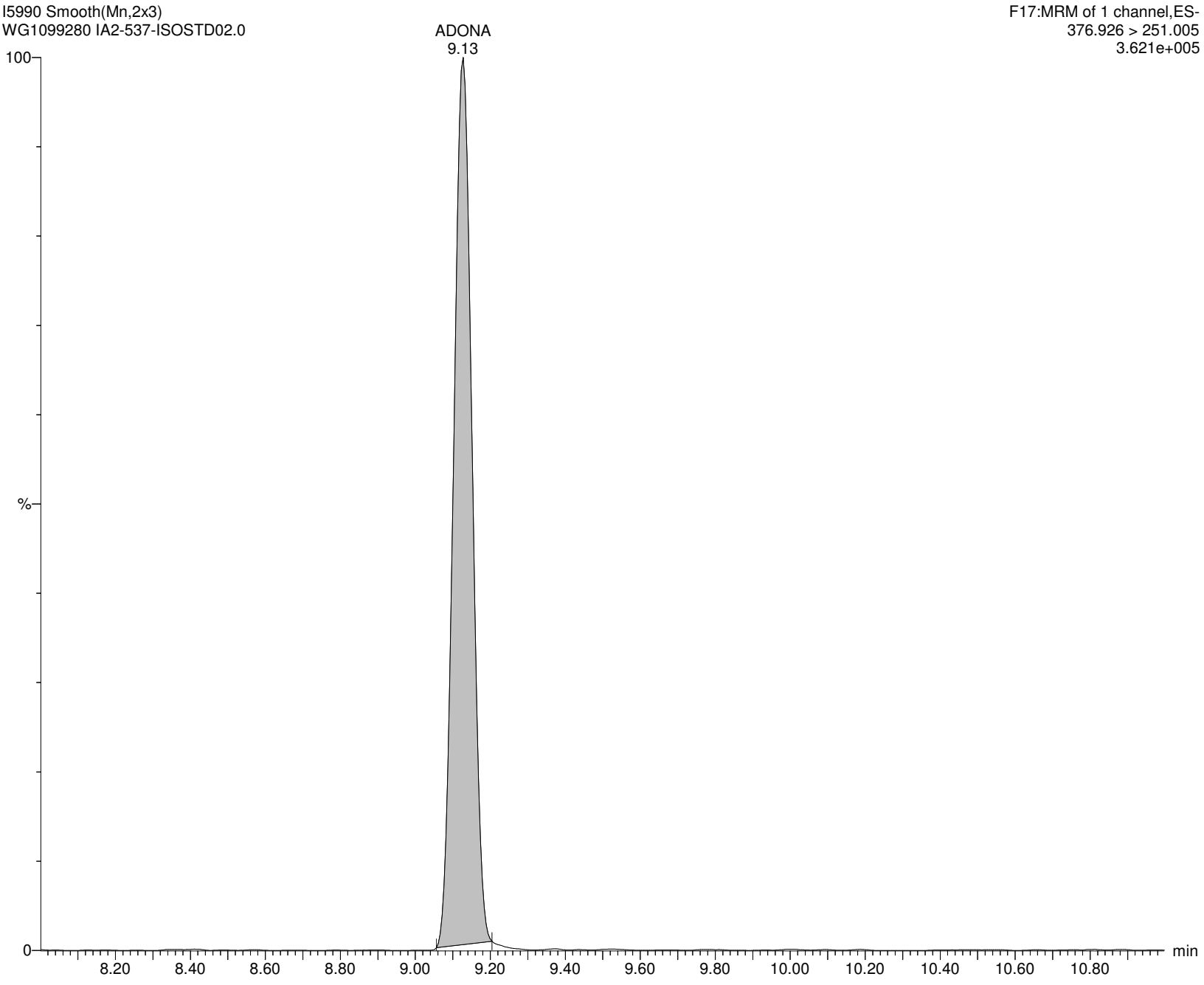

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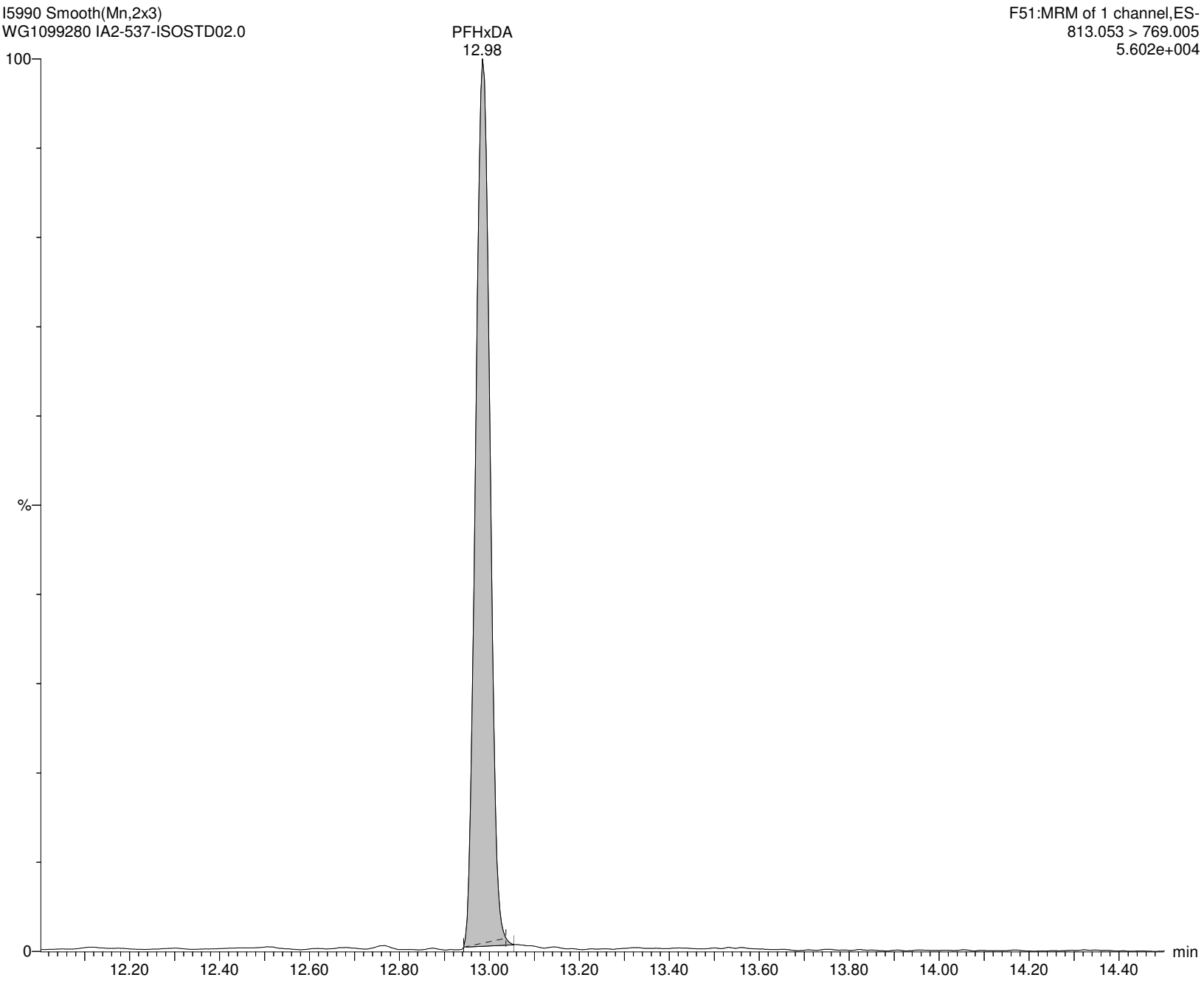

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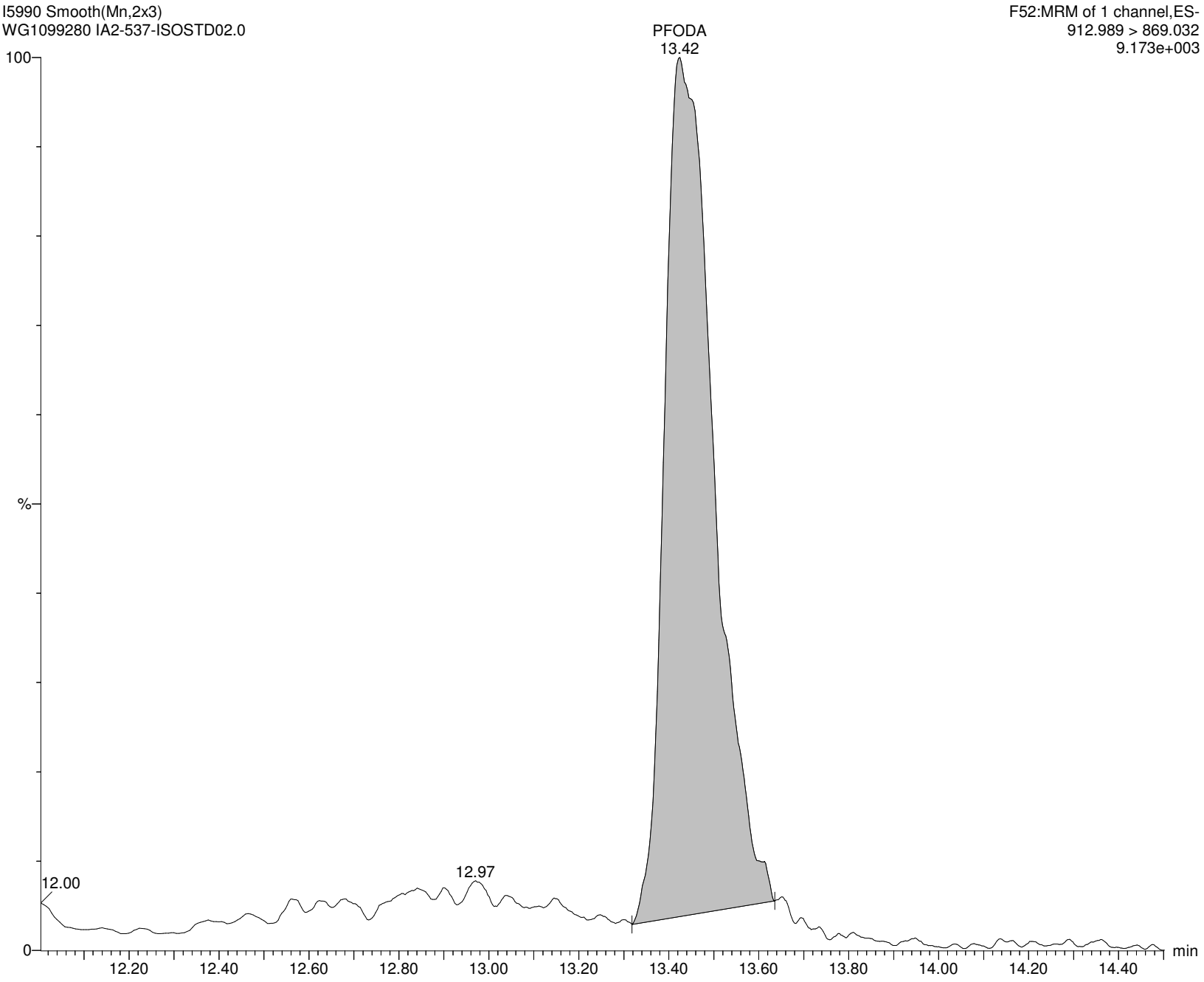

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ID: IA2-537-ISOSTD05.0
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	21967		5.362		na	107.2
2	M3PFBA	INT STD	2.26	215.926 > 172.122	49022		9.823		na	98.2
3	MPFBA	INT STD	2.26	216.926 > 172.137	55653		10.159		na	101.6
4	PFPeA	2706-90-3	5.67	262.926 > 219.002	24639		5.445		na	108.9
5	M5PFPEA	INT STD	5.66	TIC	57553		10.193		na	101.9
6	PFBS	375-73-5	6.40	298.989 > 80.295	4521		4.624		na	104.5
7	M3PFBS	INT STD	6.40	301.989 > 80.254	9941		9.853		na	98.5
8	4:2FTS	757124-72-4	7.58	326.926 > 306.957	2185		5.015		na	107.3
9	M2-4:2FTS	INT STD	7.59	328.989 > 80.973	1306		10.036		na	100.4
10	PFHxA	307-24-4	7.66	312.989 > 269.028	29628		5.464		na	109.3
11	M5PFHxA	INT STD	7.66	317.989 > 273.045	59982		10.332		na	103.3
12	PFPeS	2706-91-4	7.99	348.926 > 80.251	4258		4.722		na	100.5
13	PFHpA	375-85-9	8.94	362.926 > 319.014	34014		5.288		na	105.8
14	M4PFHpA	INT STD	8.94	366.926 > 321.979	69974		10.613		na	106.1
15	br-PFHxS	355-46-4	8.87	398.926 > 80.295	754		0.837		na	88.1
16	L-PFHxS	355-46-4	9.11	398.926 > 80.295	3529		4.007		na	98.9
17	PFHxS	355-46-4		398.926 > 80.295	4283		4.844		na	
18	M3PFHxS	INT STD	9.11	401.926 > 80.317	9331		10.054		na	100.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.88	412.989 > 368.9	33333		5.177		na	103.5
21	M2PFOA	INT STD	9.88	415.032 > 369.968	60313		9.746		na	97.5
22	PFOA	335-67-1		412.989 > 368.9	33333		5.177		na	
23	M8PFOA	INT STD	9.88	420.989 > 375.979	62120		10.604		na	106.0
24	6:2FTS	27619-97-2	9.84	426.989 > 406.921	2155		5.513		na	116.1
25	M2-6:2FTS	INT STD	9.83	428.989 > 408.917	4019		8.181		na	81.8
26	PFHpS	375-92-8	9.96	448.926 > 80.257	2633		5.114		na	107.7
27	PFNA	375-95-1	10.61	462.989 > 418.931	27291		5.404		na	108.1
28	M9PFNA	INT STD	10.61	472.053 > 426.947	60593		11.007		na	110.1
29	br-PFOS	1763-23-1	10.47	498.989 > 80.294	952		0.924		na	92.4
30	L-PFOS	1763-23-1	10.66	498.989 > 80.294	3068		4.210		na	106.6
31	PFOS	1763-23-1		498.989 > 80.294	4020		5.134		na	
32	M4PFOS	INT STD	10.66	503.032 > 80.306	6147		10.137		na	101.4
33	M8PFOS	INT STD	10.66	507.053 > 80.294	7442		9.915		na	99.2
34	PFDA	335-76-2	11.23	513.053 > 468.906	23582		5.026		na	100.5
35	M2PFDA	INT STD	11.23	515.053 > 469.934	43618		10.404		na	104.0
36	M6PFDA	INT STD	11.23	519.053 > 473.931	55189		10.478		na	104.8
37	8:2FTS	39108-34-4	11.22	526.989 > 506.946	1610		5.790		na	120.6
38	M2-8:2FTS	INT STD	11.22	529.117 > 80.953	817		10.771		na	107.7
39	PFNS	68259-12-1	11.26	548.989 > 80.249	2903		4.498		na	93.7

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Date: 21-Mar-2018
Time: 16:41:51
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.57	573.096 > 418.987	6174		9.168		na	91.7
41	NMeFOSAA	2355-31-9	11.57	570.053 > 418.917	3376		5.205		na	104.1
42	PFUnA	2058-94-8	11.77	562.989 > 518.903	22656		4.965		na	99.3
43	M7-PFUDA	INT STD	11.77	570.053 > 524.923	44335		10.288		na	102.9
44	PFDS	335-77-3	11.78	598.926 > 80.314	3157		4.302		na	89.2
45	FOSA	754-91-6	11.69	497.989 > 78.245	9757		5.395		na	107.9
46	M8FOSA	INT STD	11.69	506.053 > 78.286	22147		9.530		na	95.3
47	d5-NEtFOSAA	INT STD	11.85	589.117 > 418.929	5477		8.585		na	85.8
48	NEtFOSAA	2991-50-6	11.86	583.989 > 418.927	2937		5.841		na	116.8
49	PFDoA	307-55-1	12.24	612.989 > 568.967	25646		6.062		na	121.2
50	MPFDOA	INT STD	12.24	614.989 > 569.92	43215		9.691		na	96.9
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	19207		4.807		na	96.1
52	PFTA	376-06-7	12.75	713.053 > 668.976	14001		5.791		na	115.8
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	28342		8.085		na	80.9
54	M3HFPO-DA	INT STD	8.10	331.989 > 286.995	1468		125.442		na	62.7
55	HFPO-DA	13252-13-6	8.09	328.989 > 284.982	239		95.220		na	95.2
56	ADONA	958445-44-8	9.12	376.926 > 251.005	54561		5.888		na	124.5
57	PFHxDA		12.98	813.053 > 769.005	5616		5.168		na	103.4
58	PFODA		13.43	912.989 > 869.032	2704		5.242		na	104.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:49 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

Name: I5991
ID: IA2-537-ISOSTD05.0
Date: 21-Mar-2018
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Description: WG1099280
User: LCMS01:PB
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
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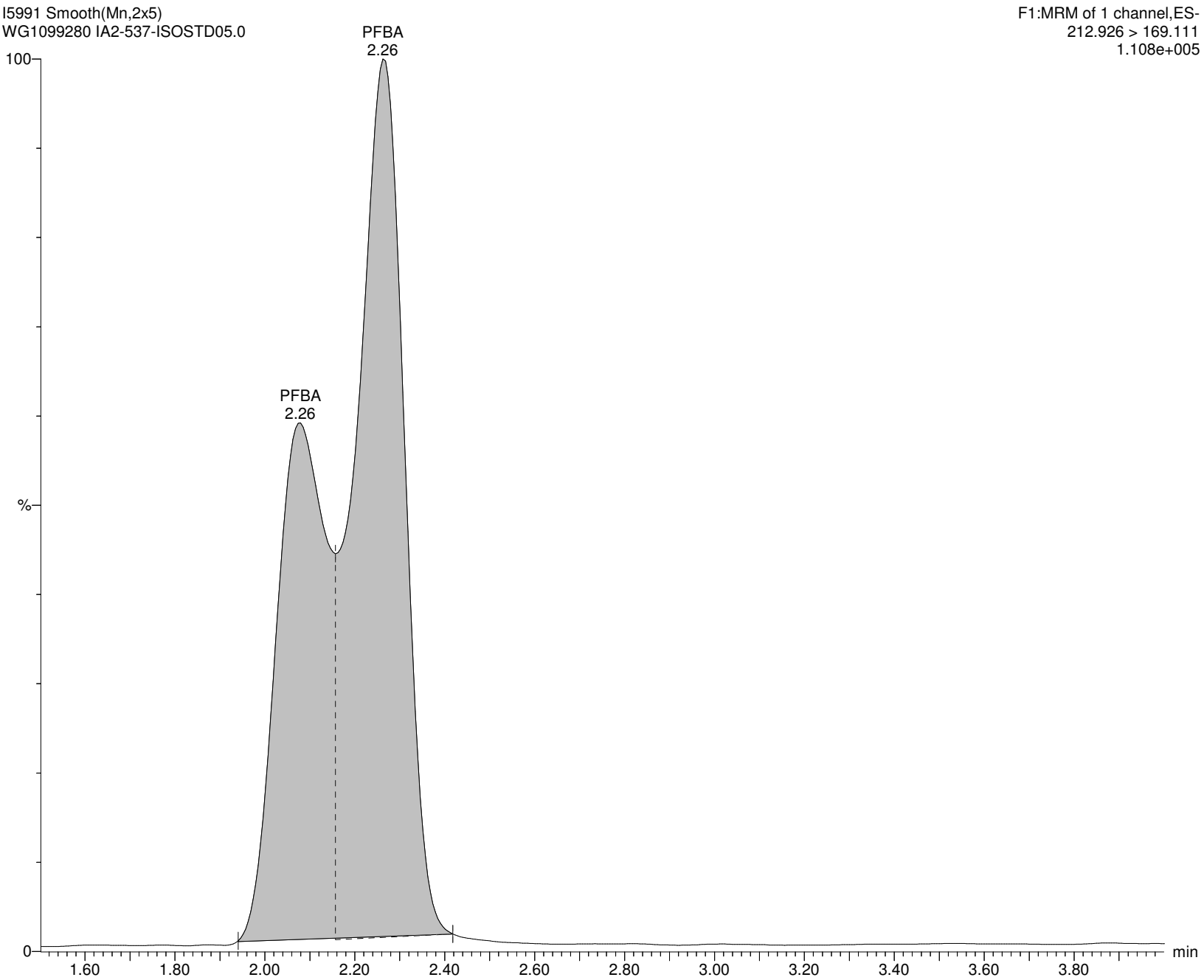

all concentration units in (ng/mL)

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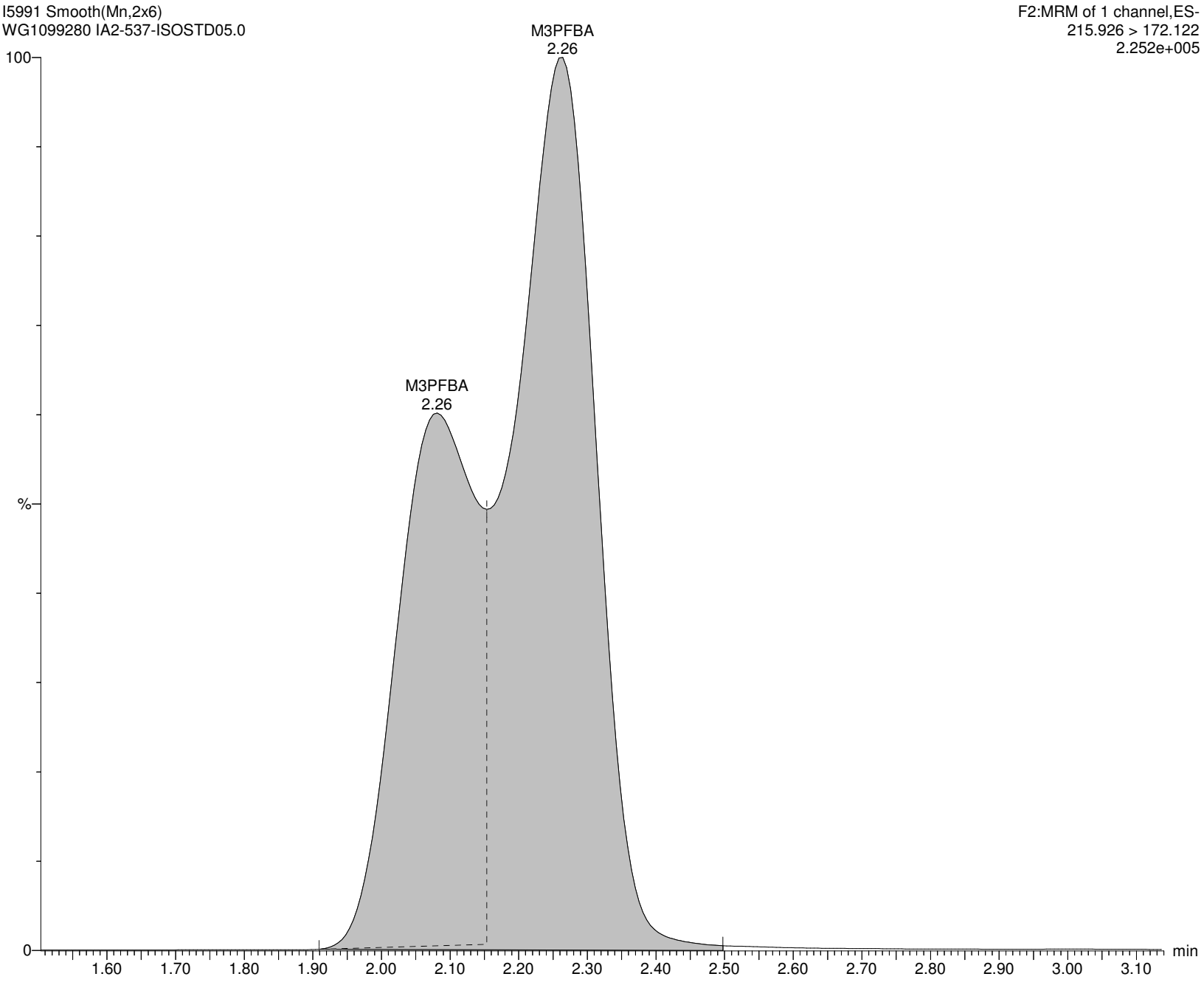

all concentration units in (ng/mL)

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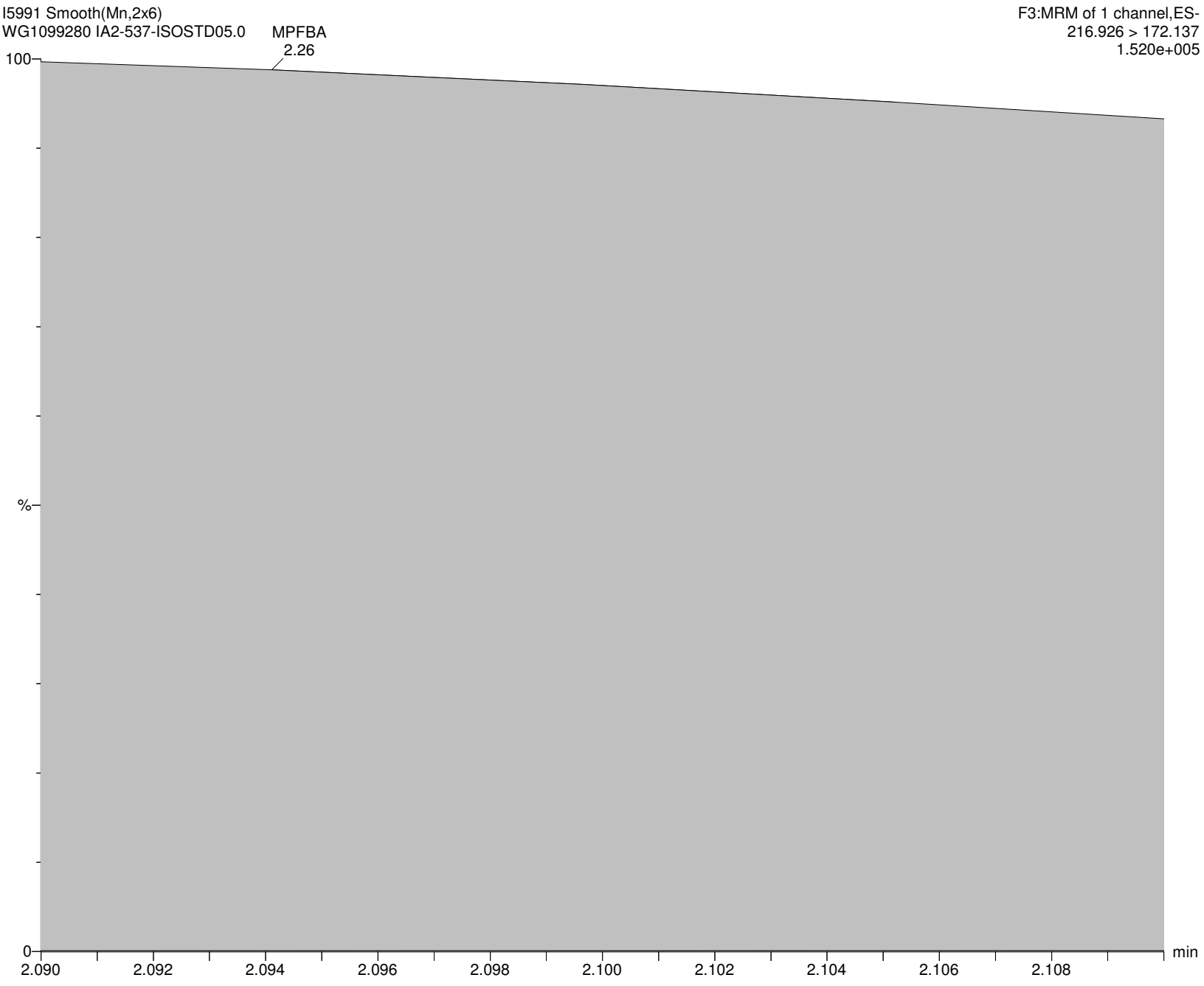

all concentration units in (ng/mL)

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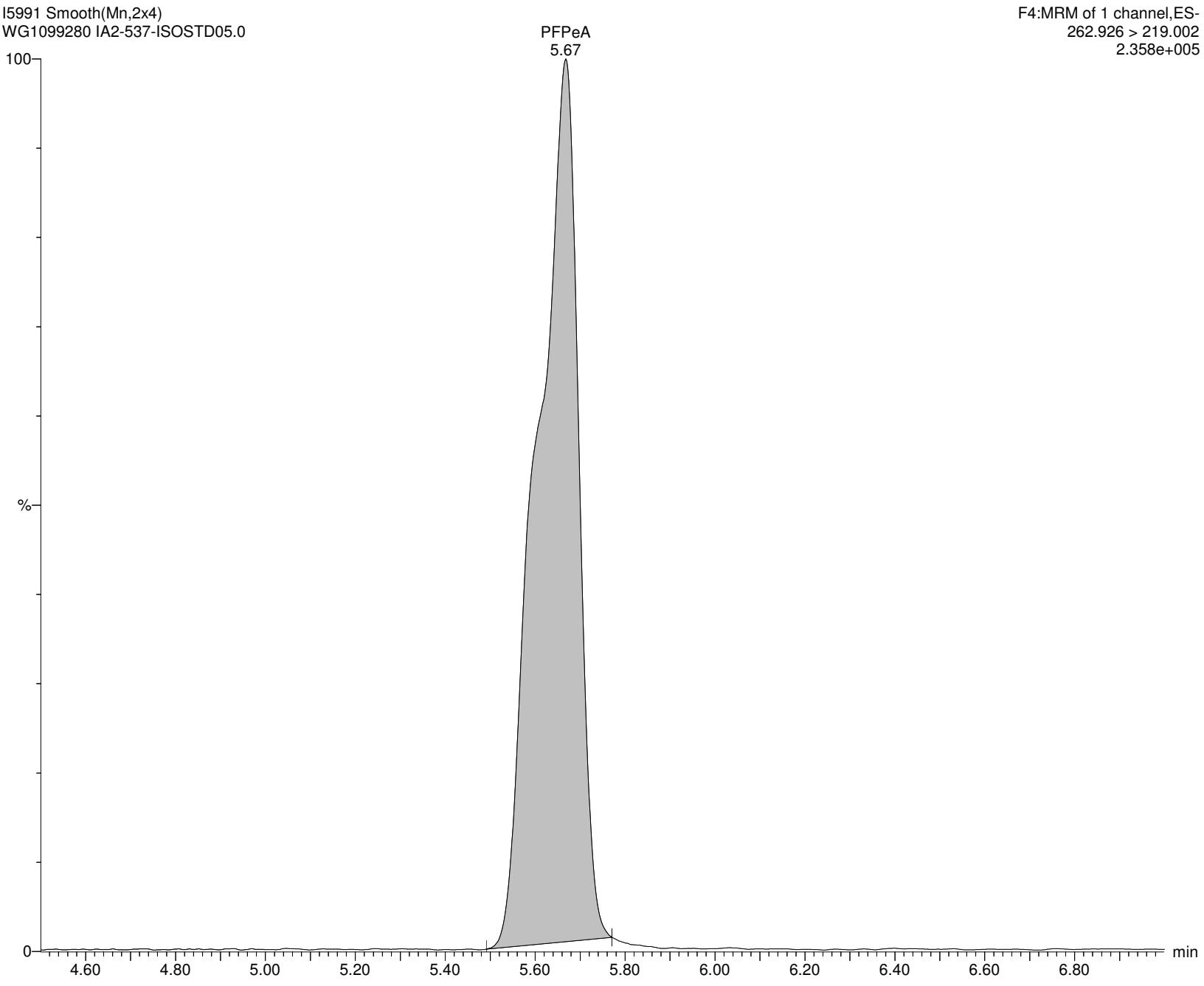

all concentration units in (ng/mL)

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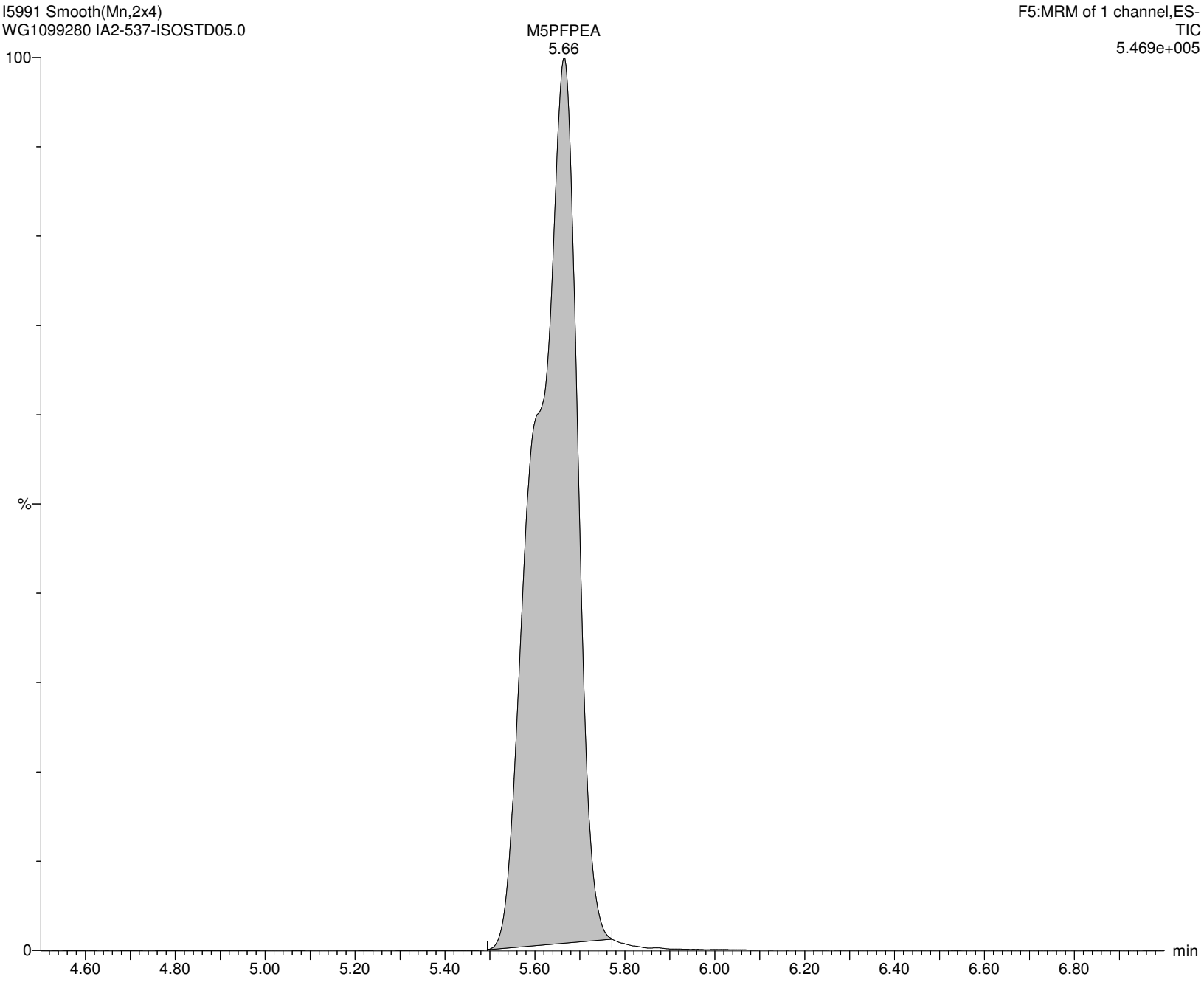

all concentration units in (ng/mL)

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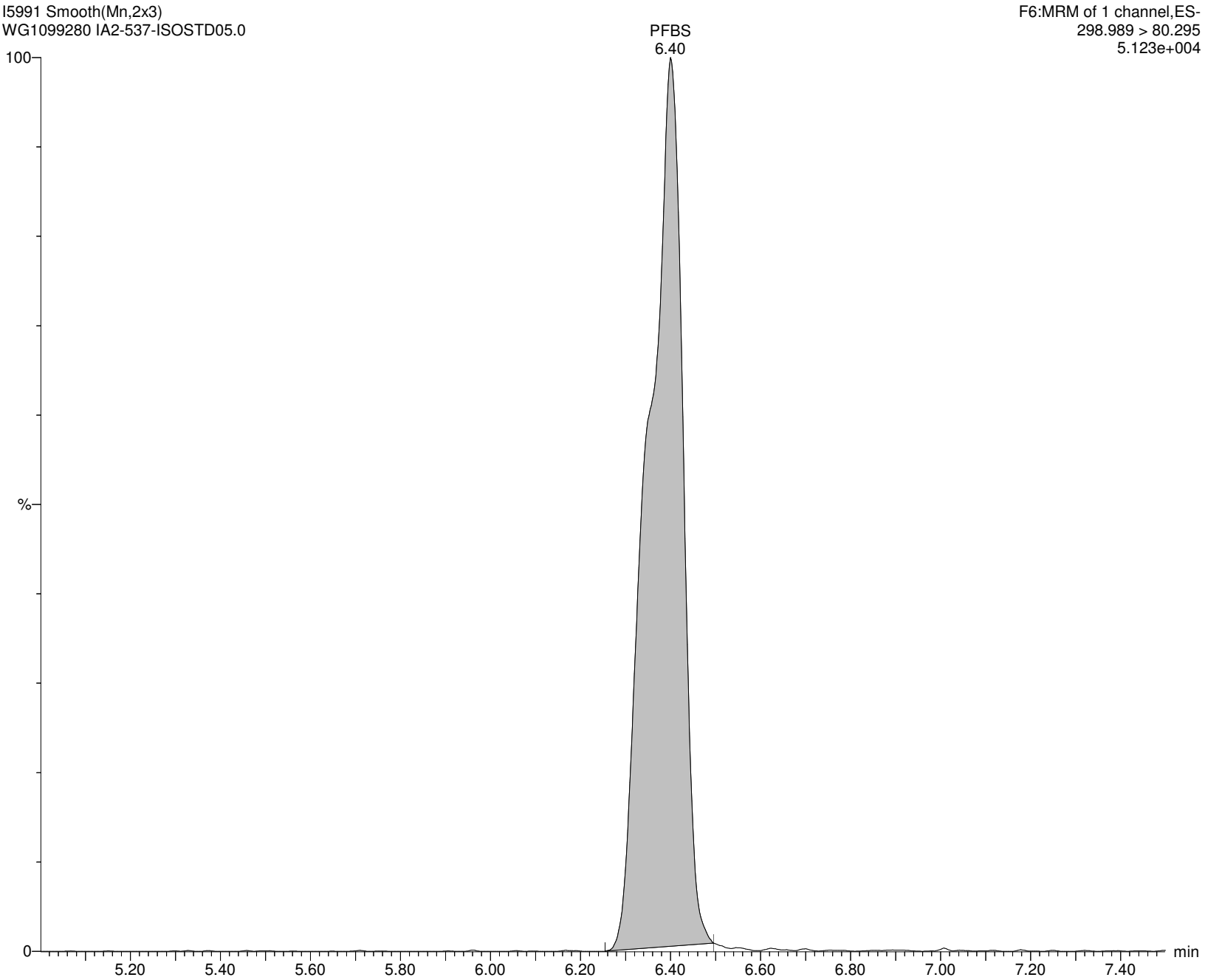

all concentration units in (ng/mL)

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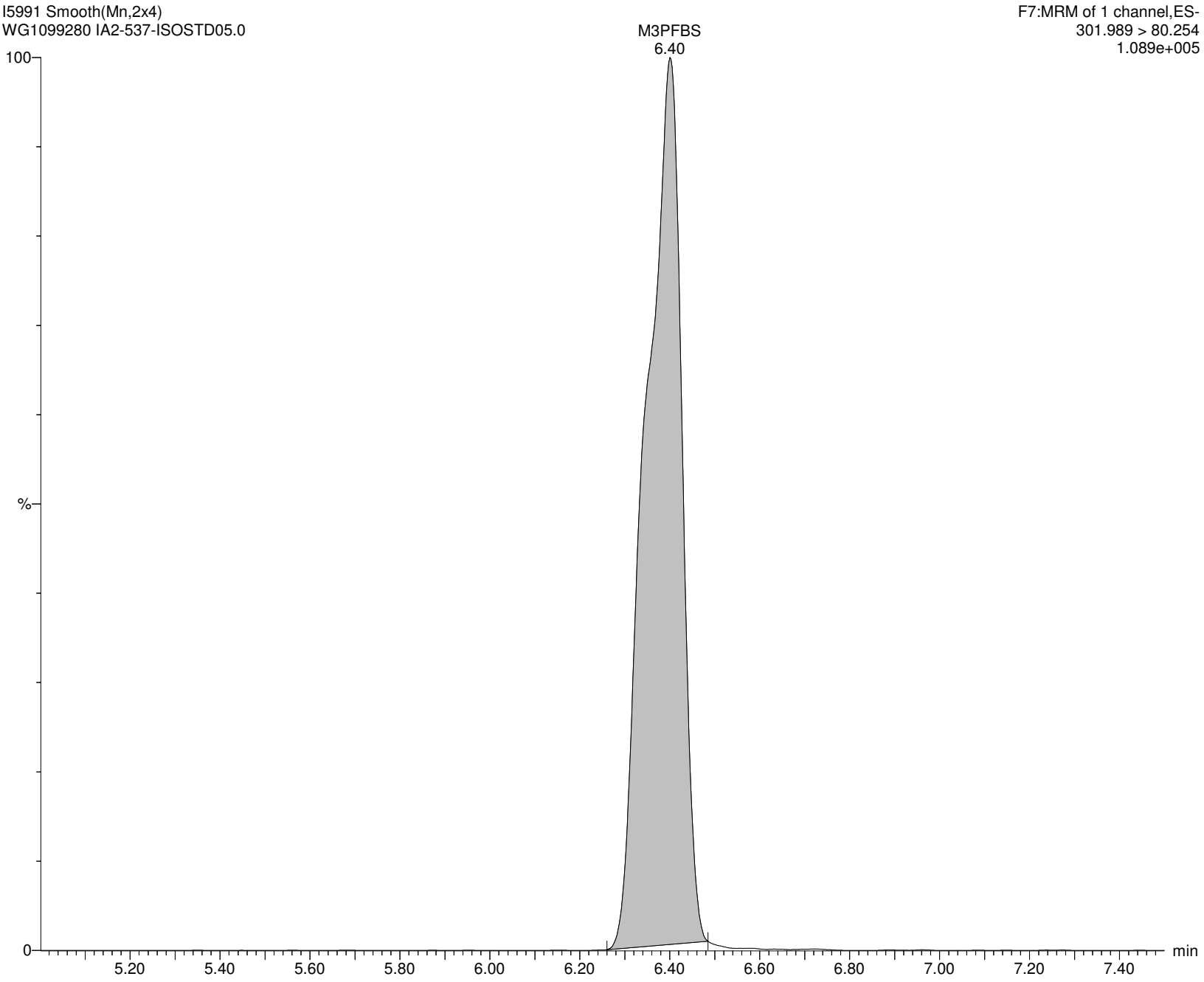

all concentration units in (ng/mL)

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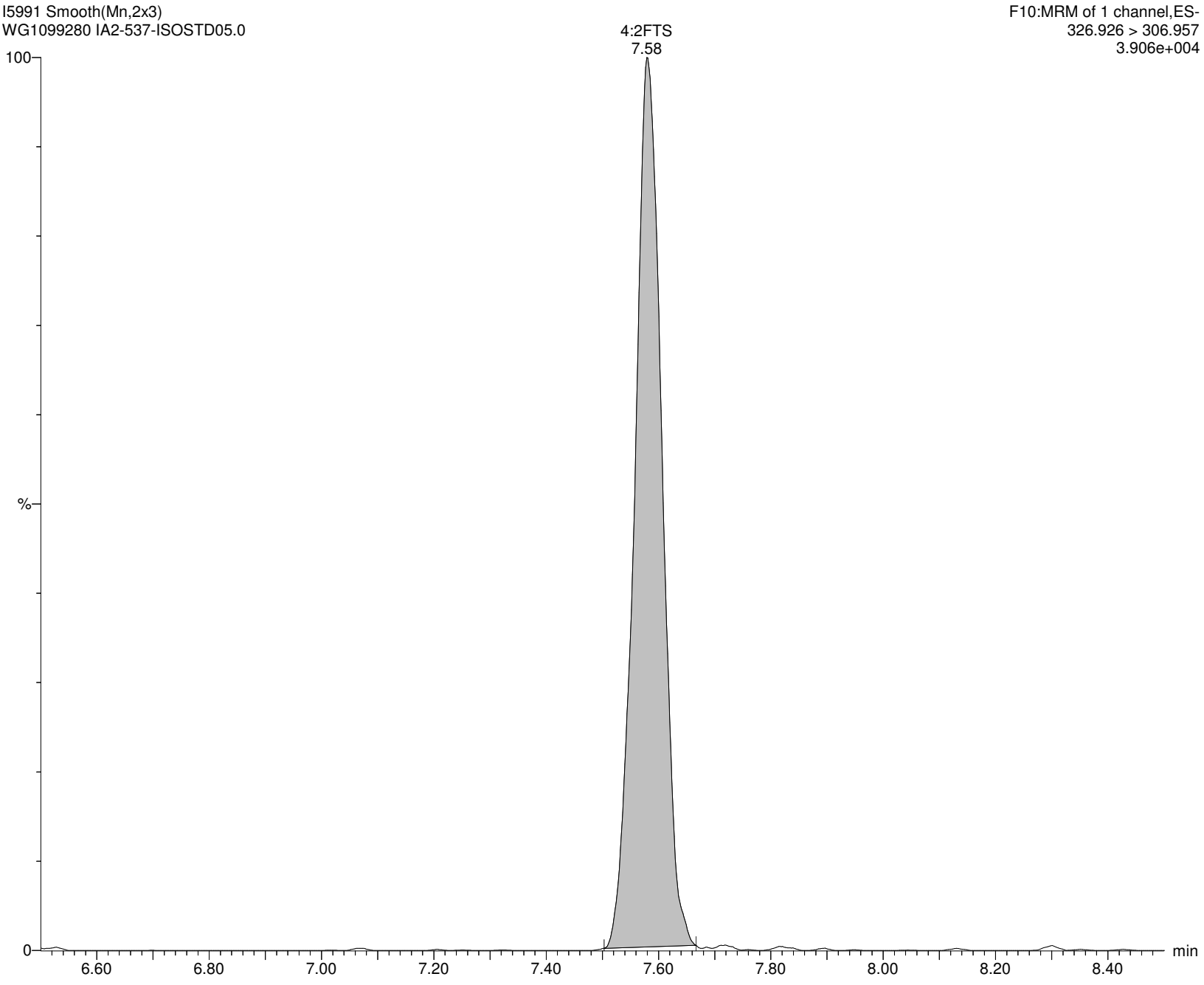

all concentration units in (ng/mL)

Alpha Analytical Inc.
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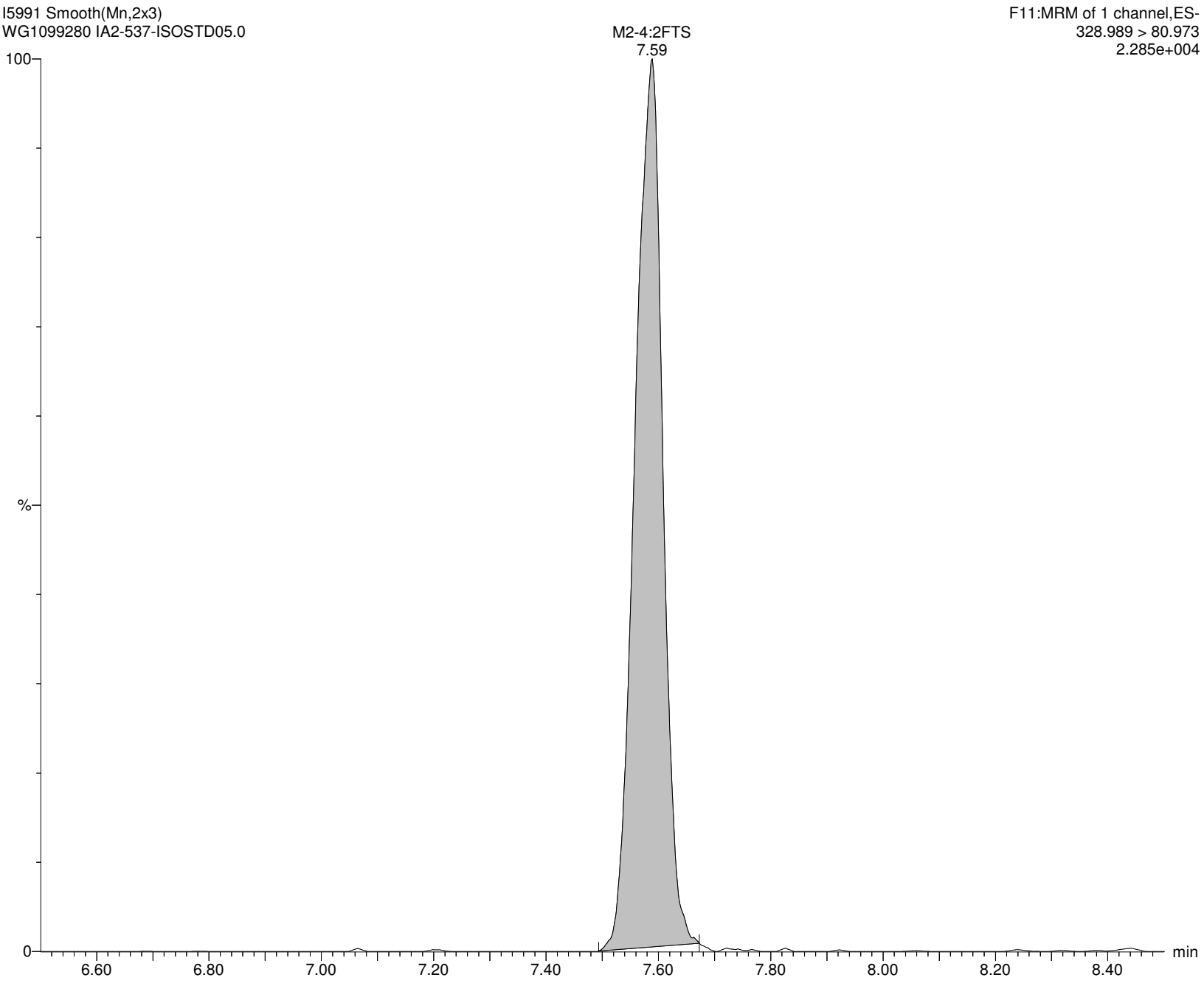

all concentration units in (ng/mL)

Alpha Analytical Inc.
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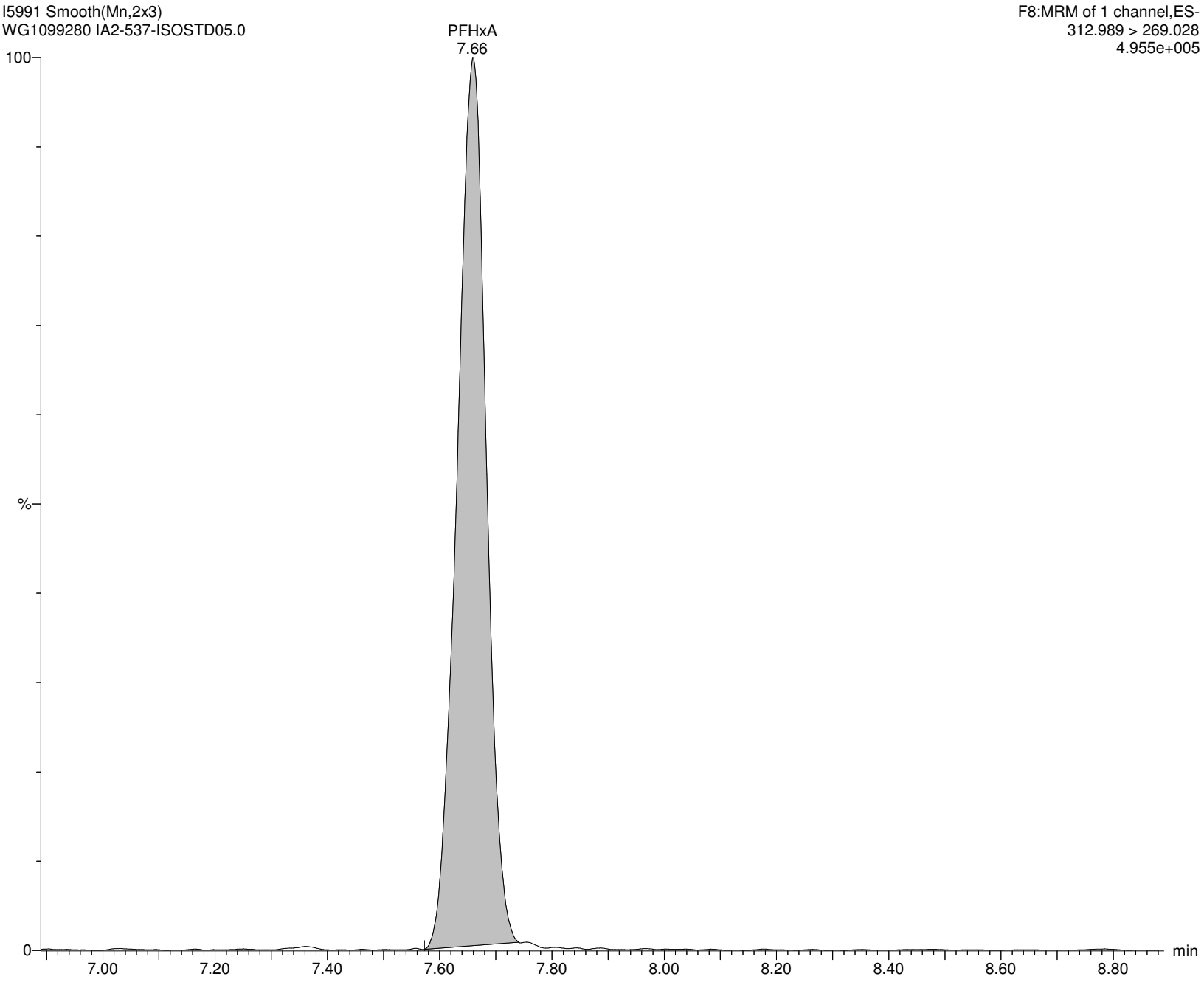

all concentration units in (ng/mL)

Alpha Analytical Inc.
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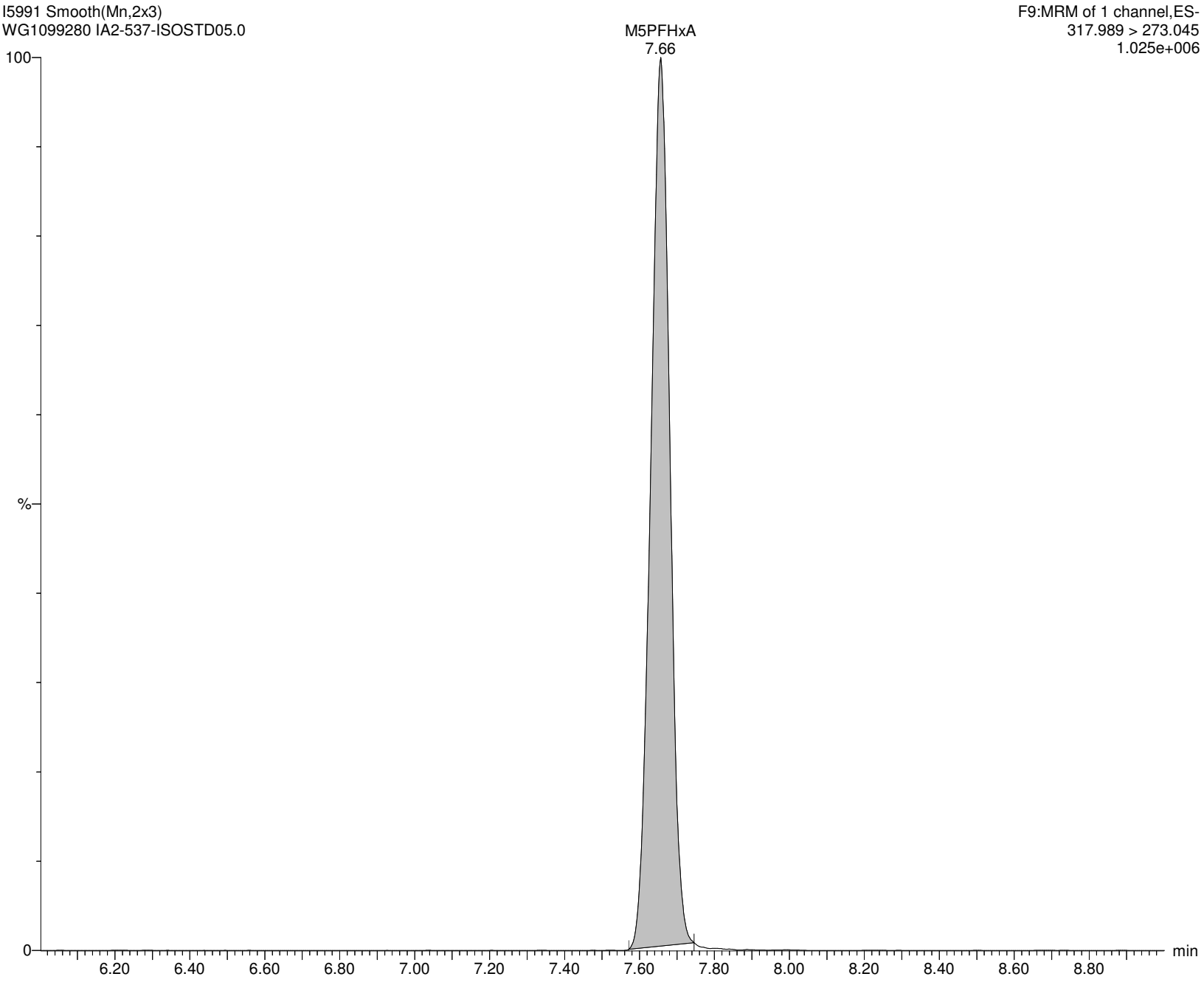

all concentration units in (ng/mL)

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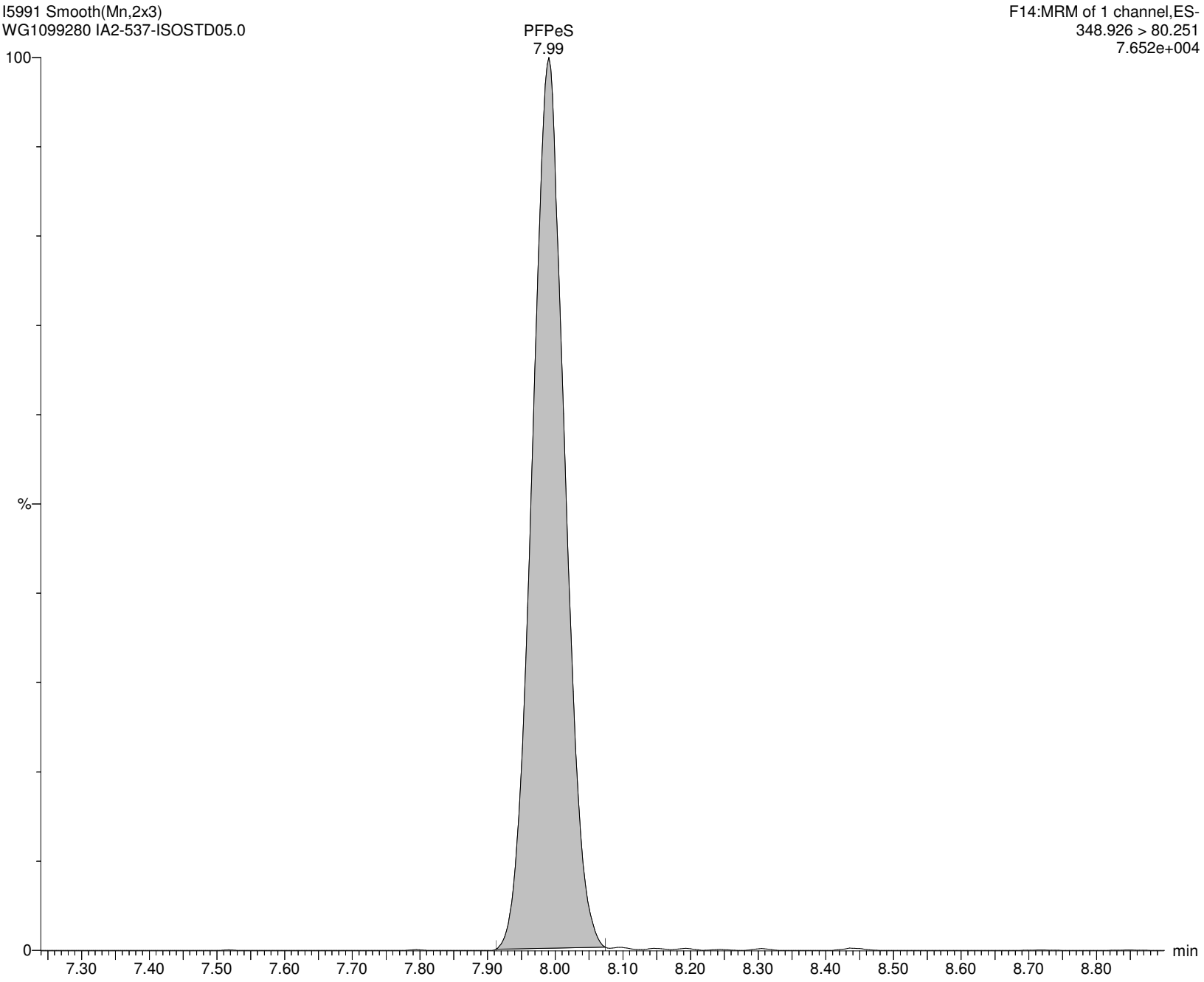

all concentration units in (ng/mL)

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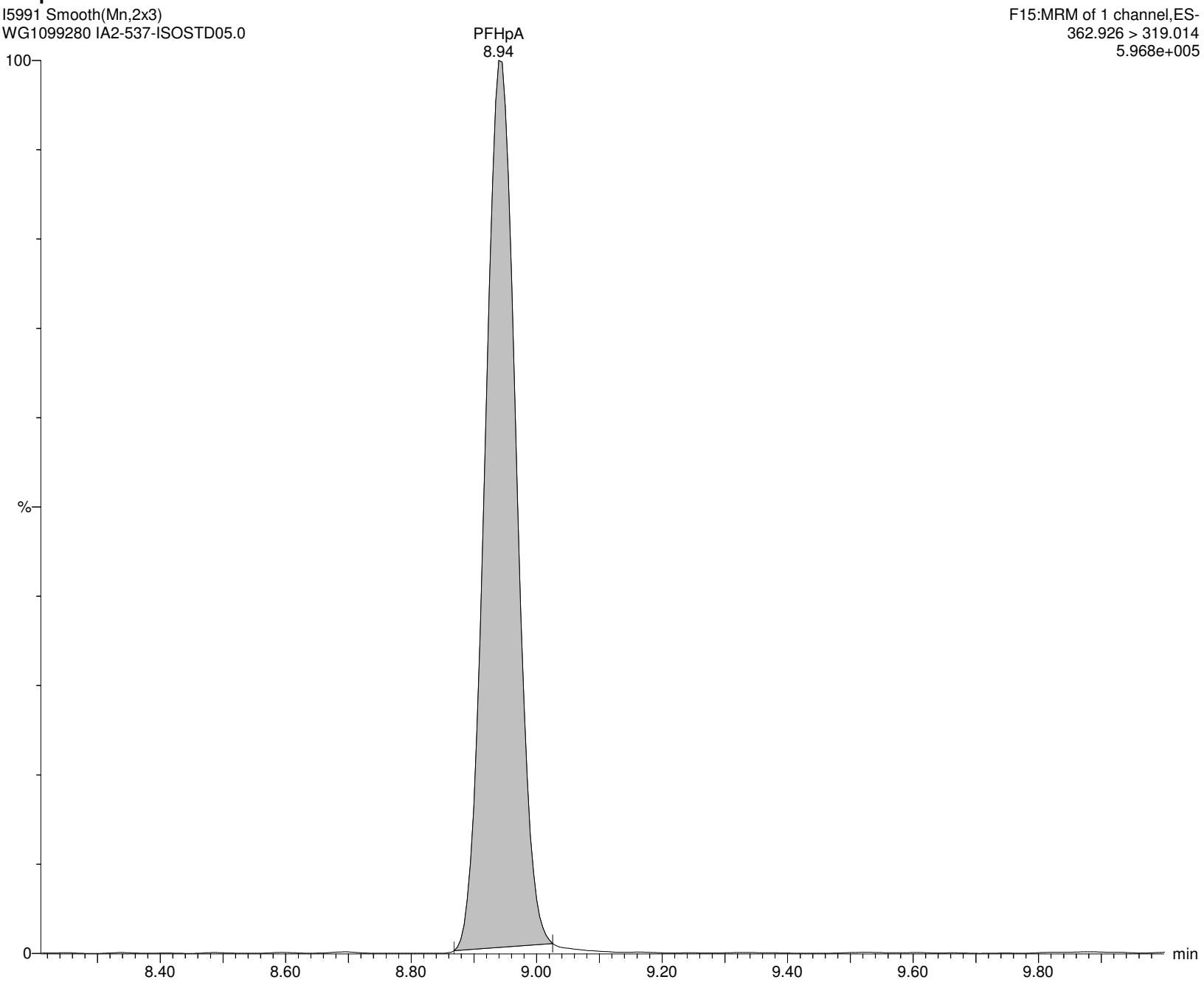

all concentration units in (ng/mL)

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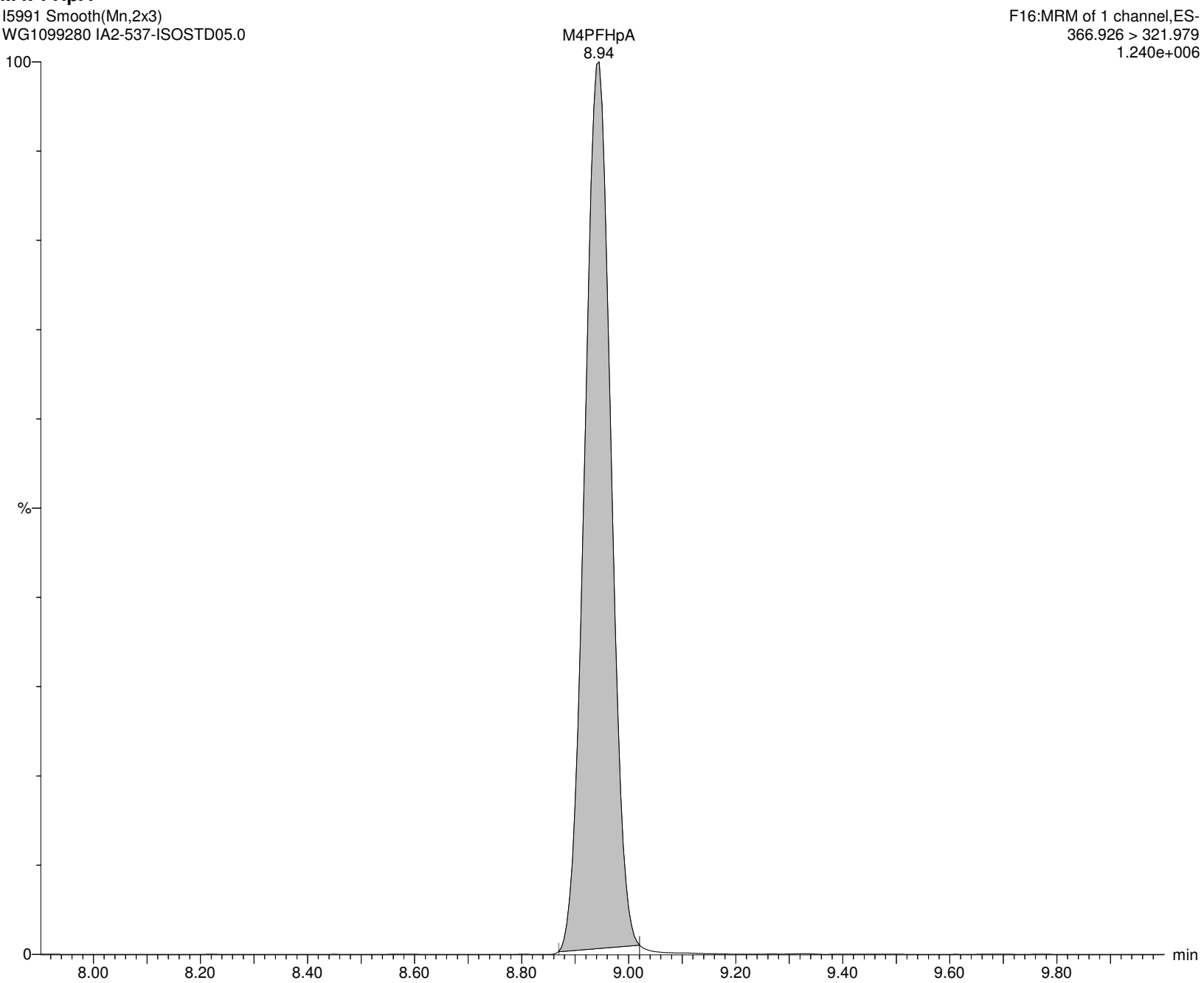

all concentration units in (ng/mL)

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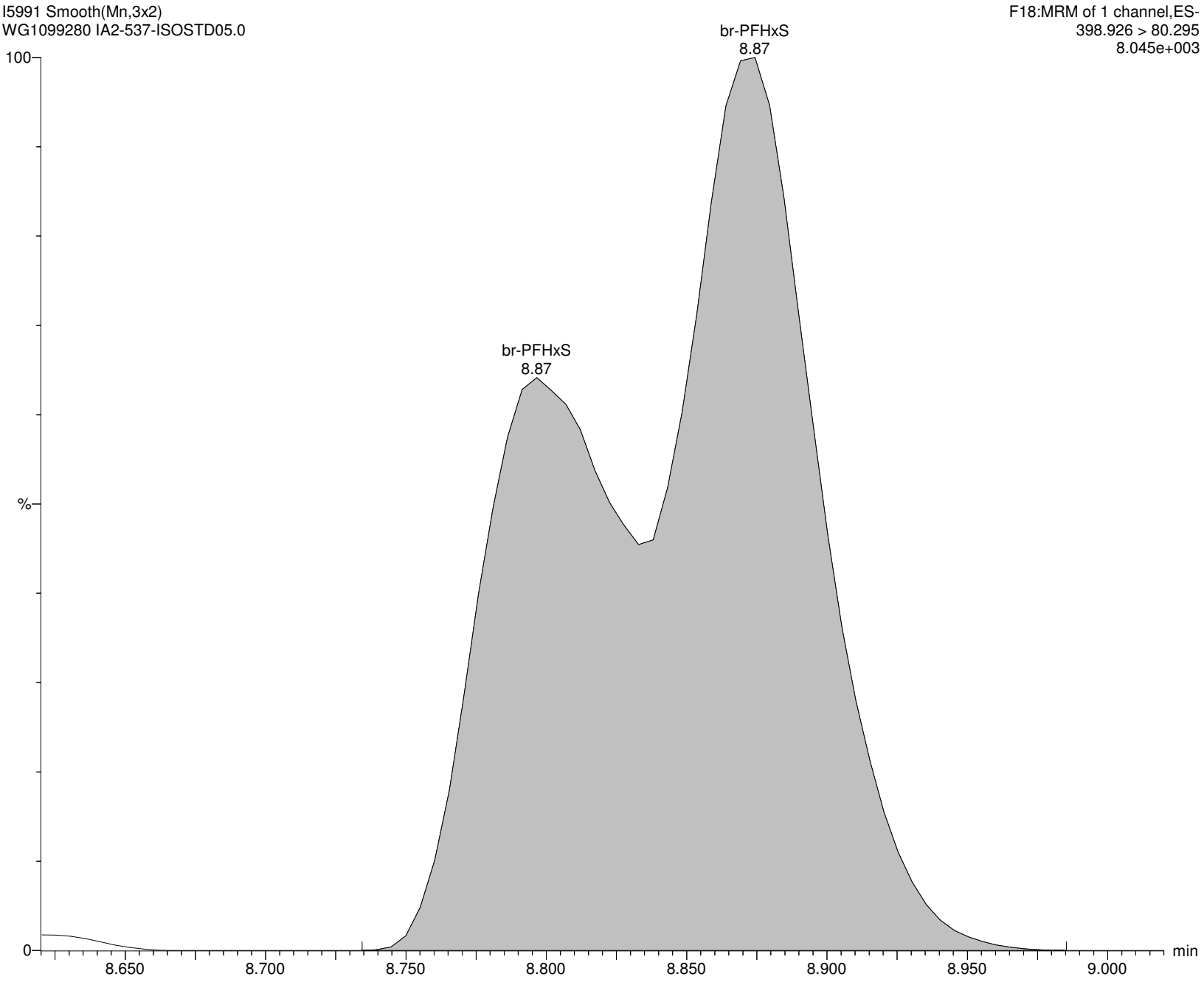

all concentration units in (ng/mL)

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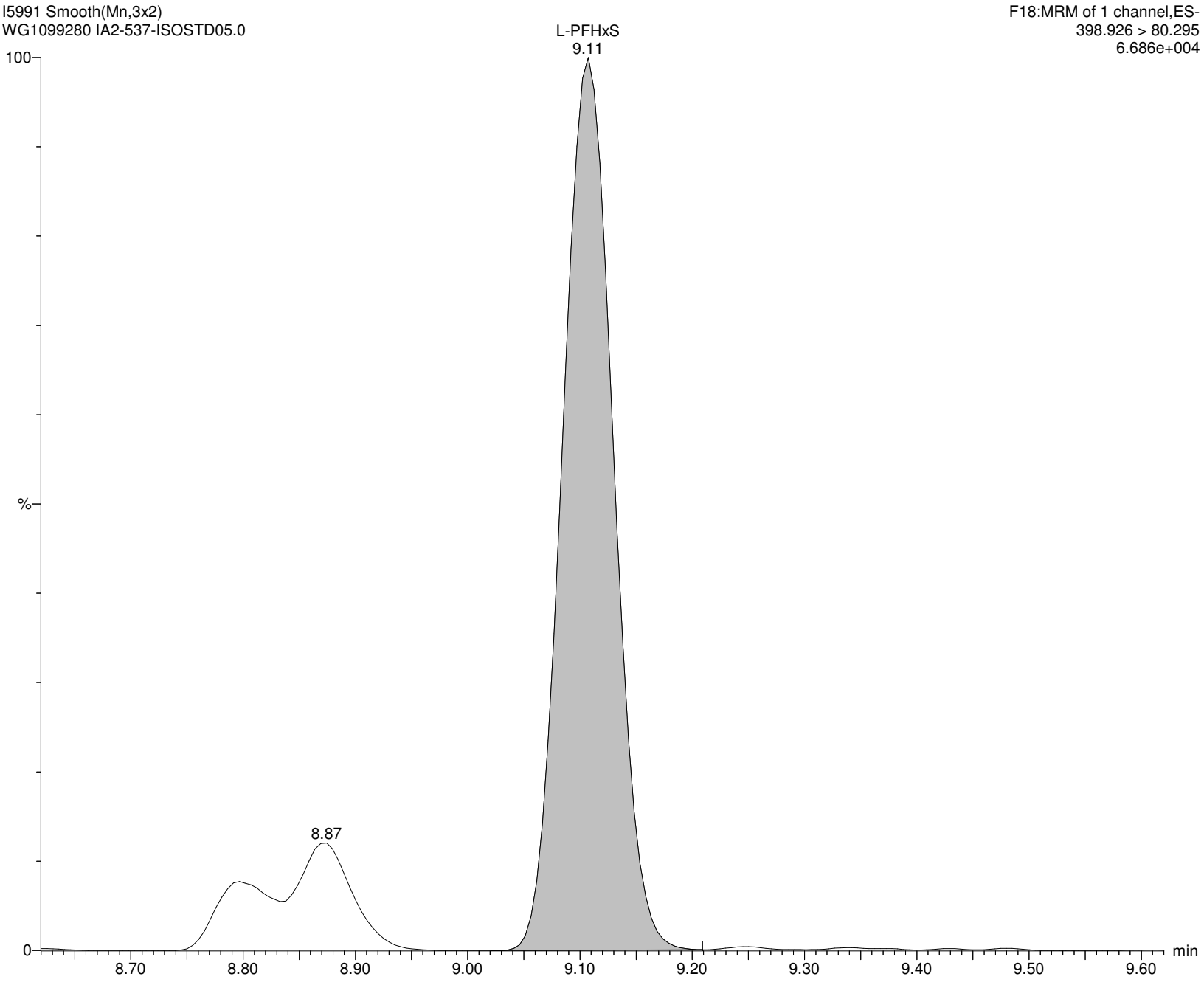

all concentration units in (ng/mL)

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ID: IA2-537-ISOSTD05.0
Date: 21-Mar-2018
Time: 16:41:51
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
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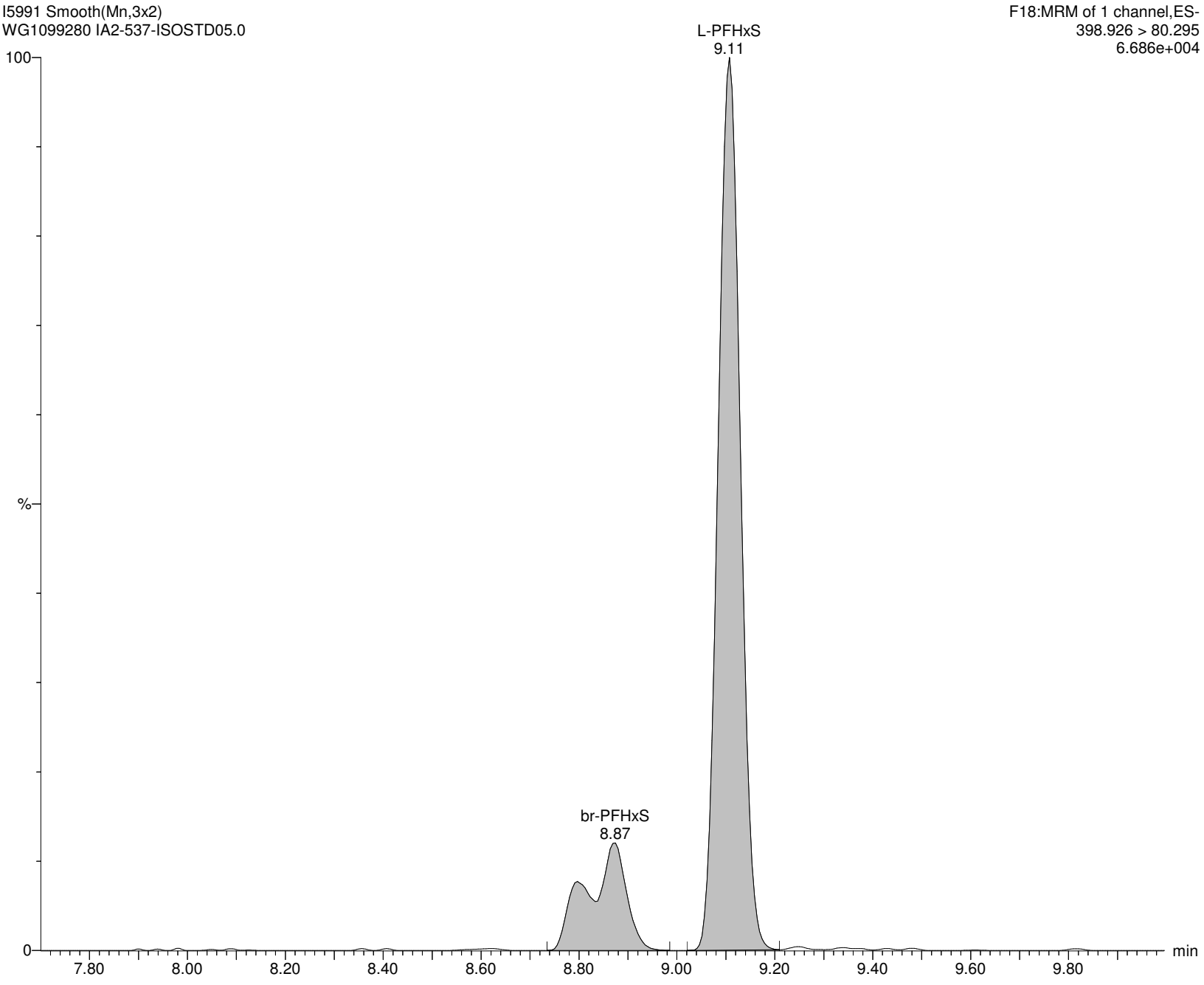

all concentration units in (ng/mL)

Alpha Analytical Inc.
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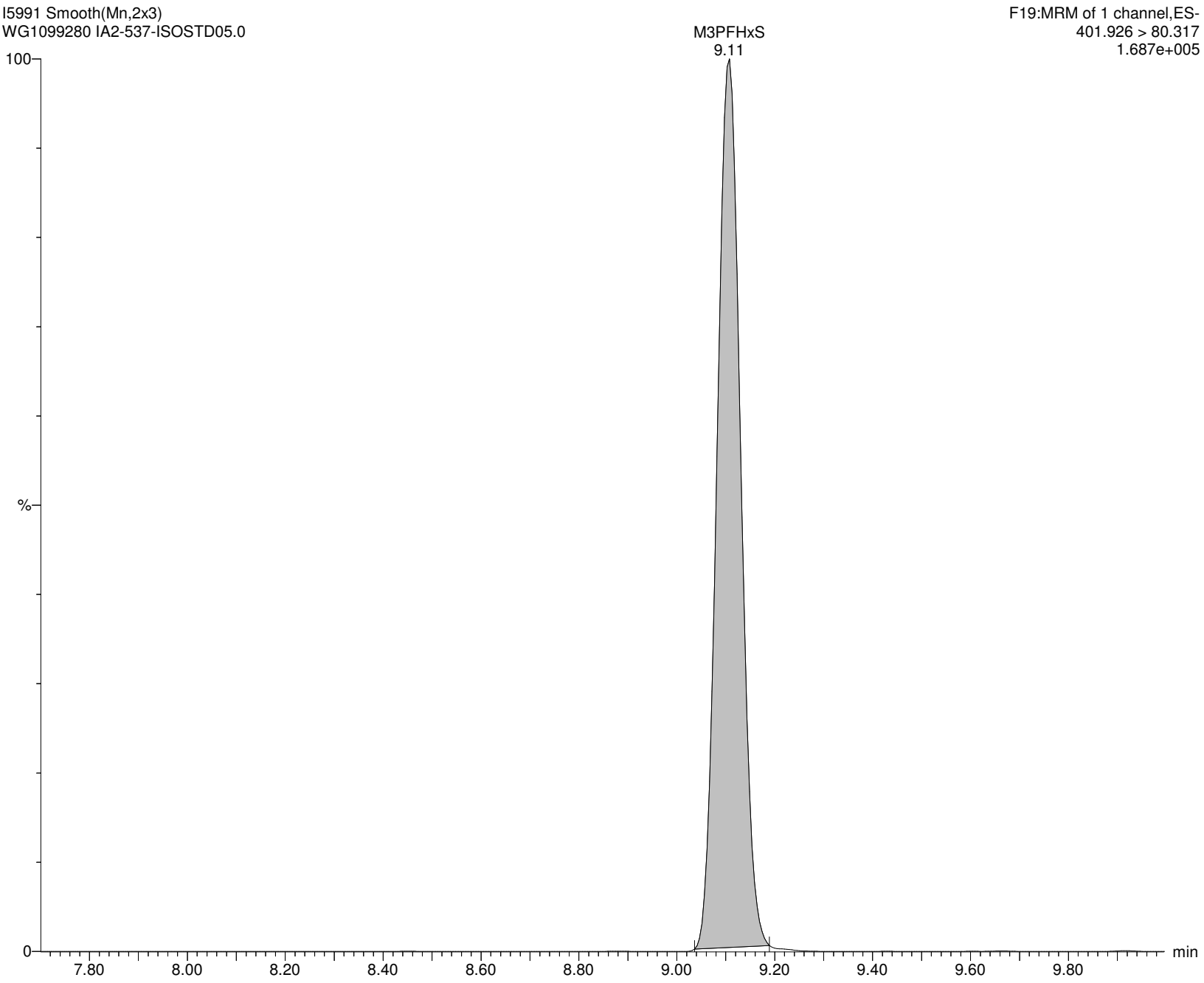

all concentration units in (ng/mL)

Alpha Analytical Inc.
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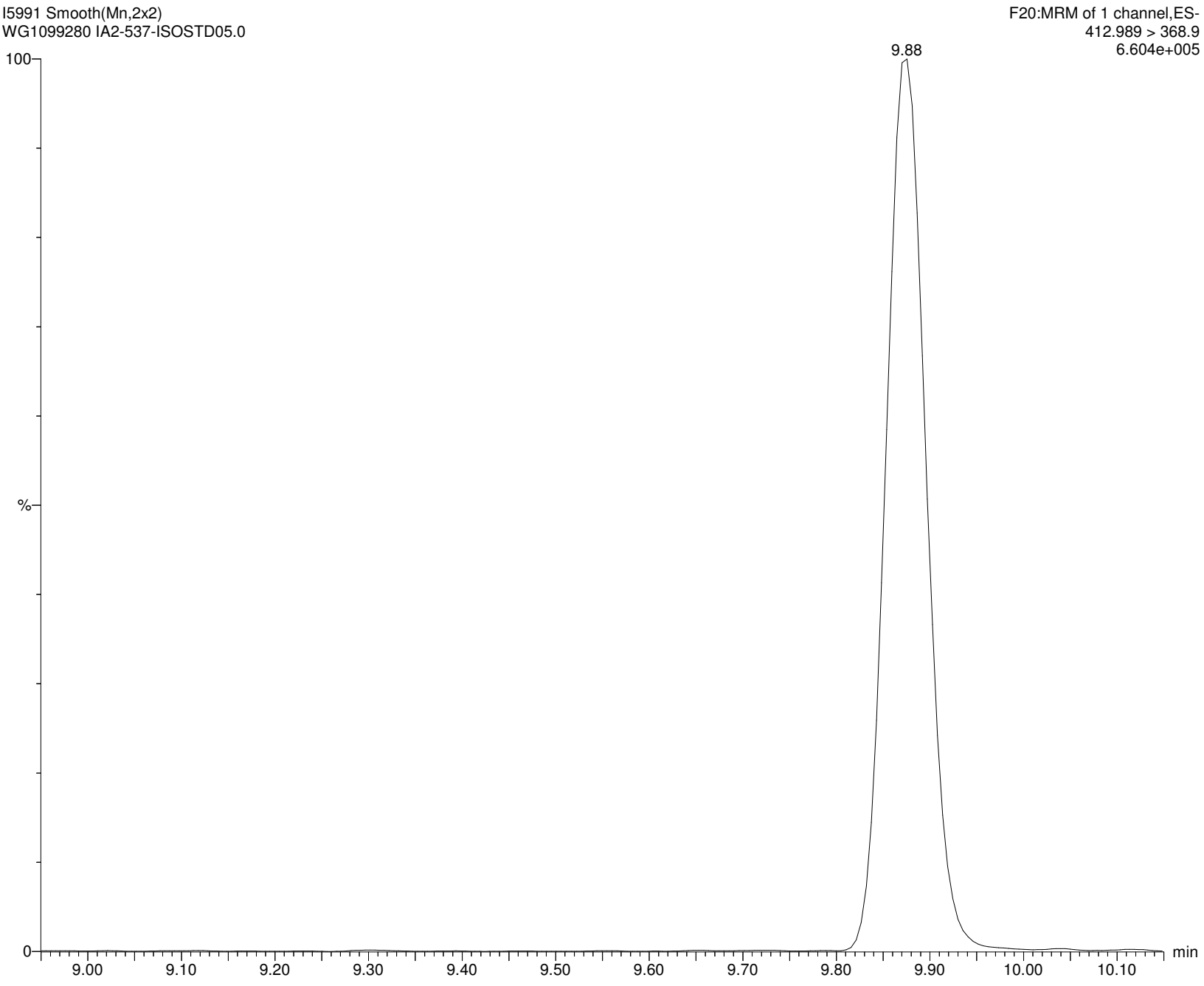

all concentration units in (ng/mL)

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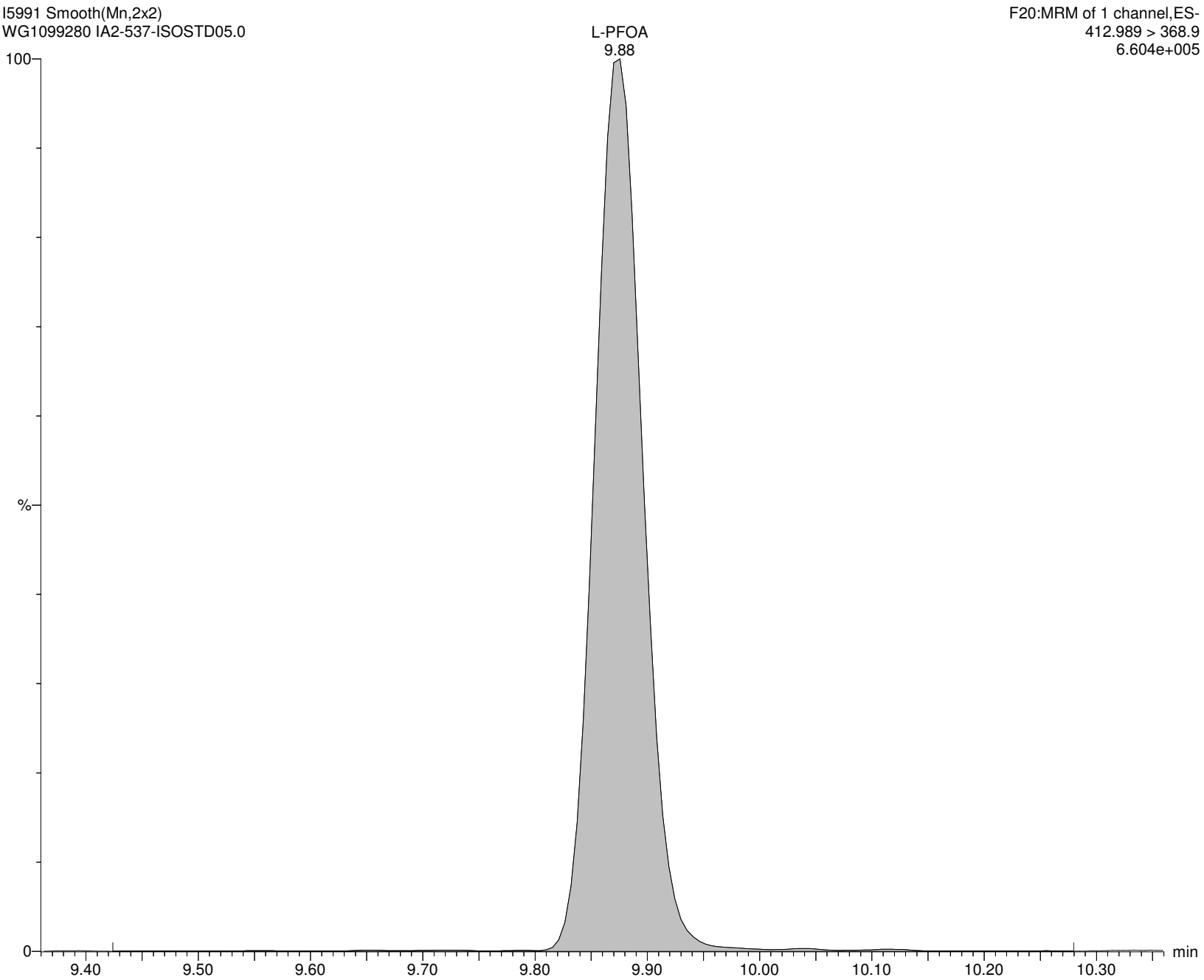

all concentration units in (ng/mL)

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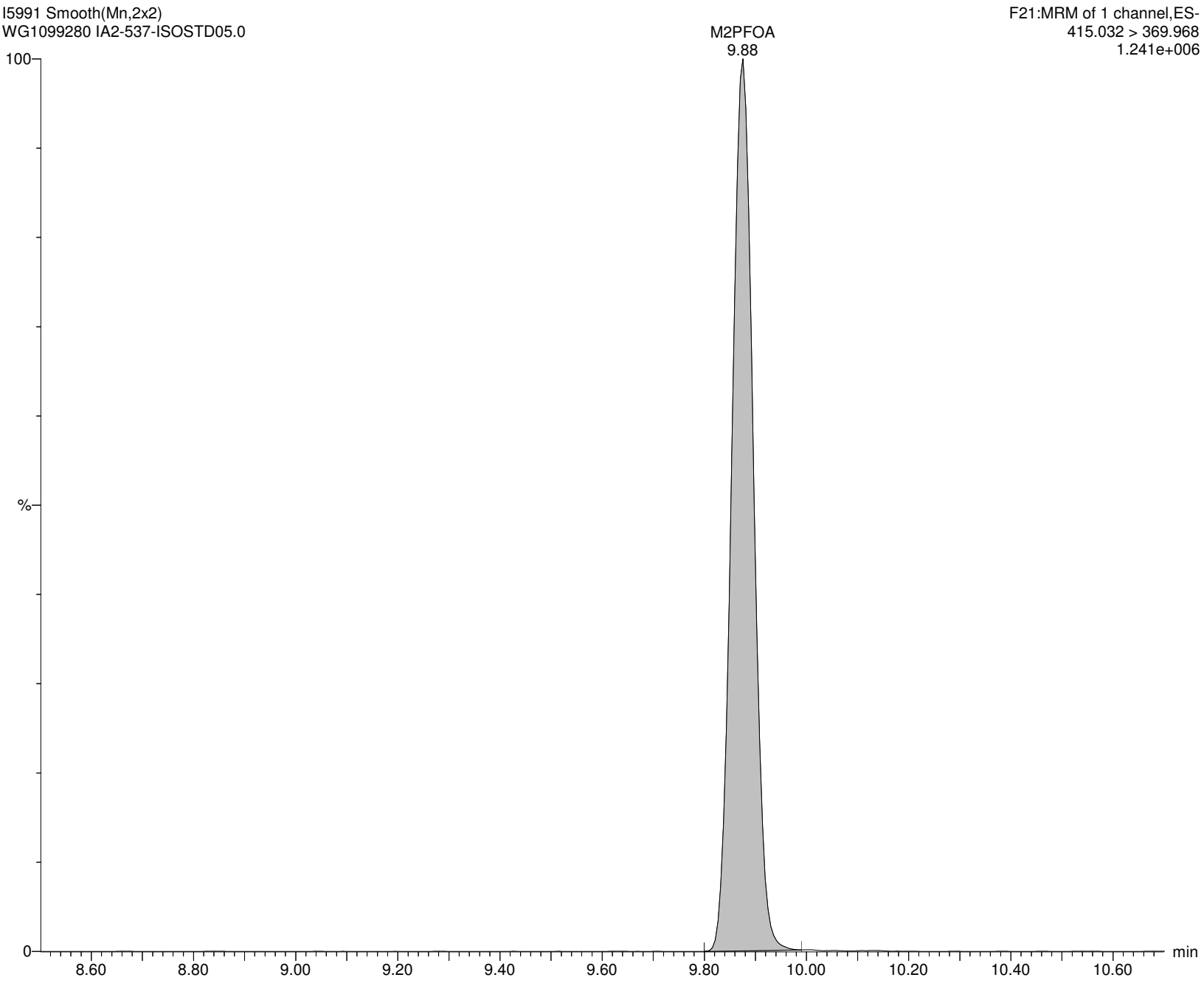

all concentration units in (ng/mL)

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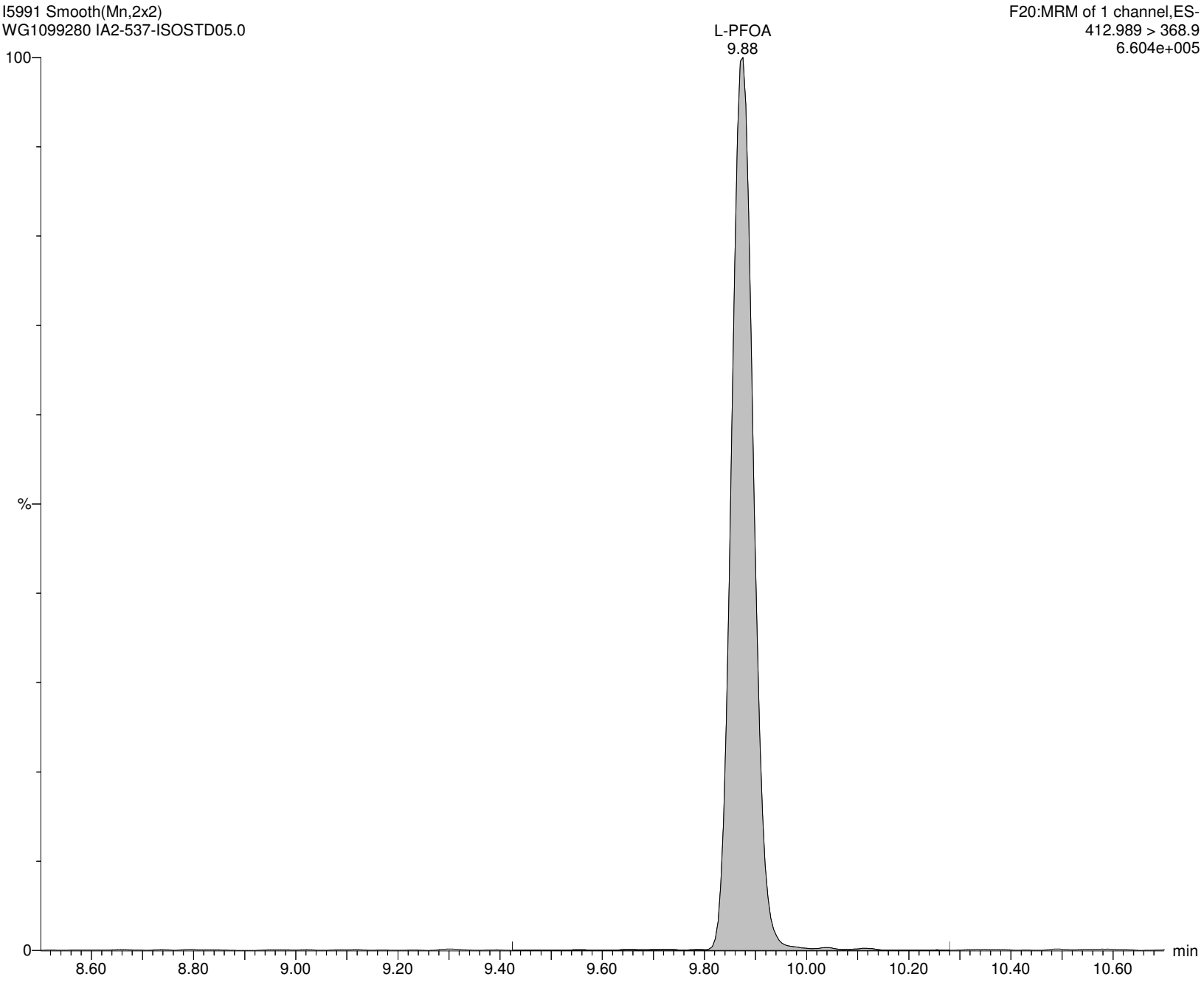

all concentration units in (ng/mL)

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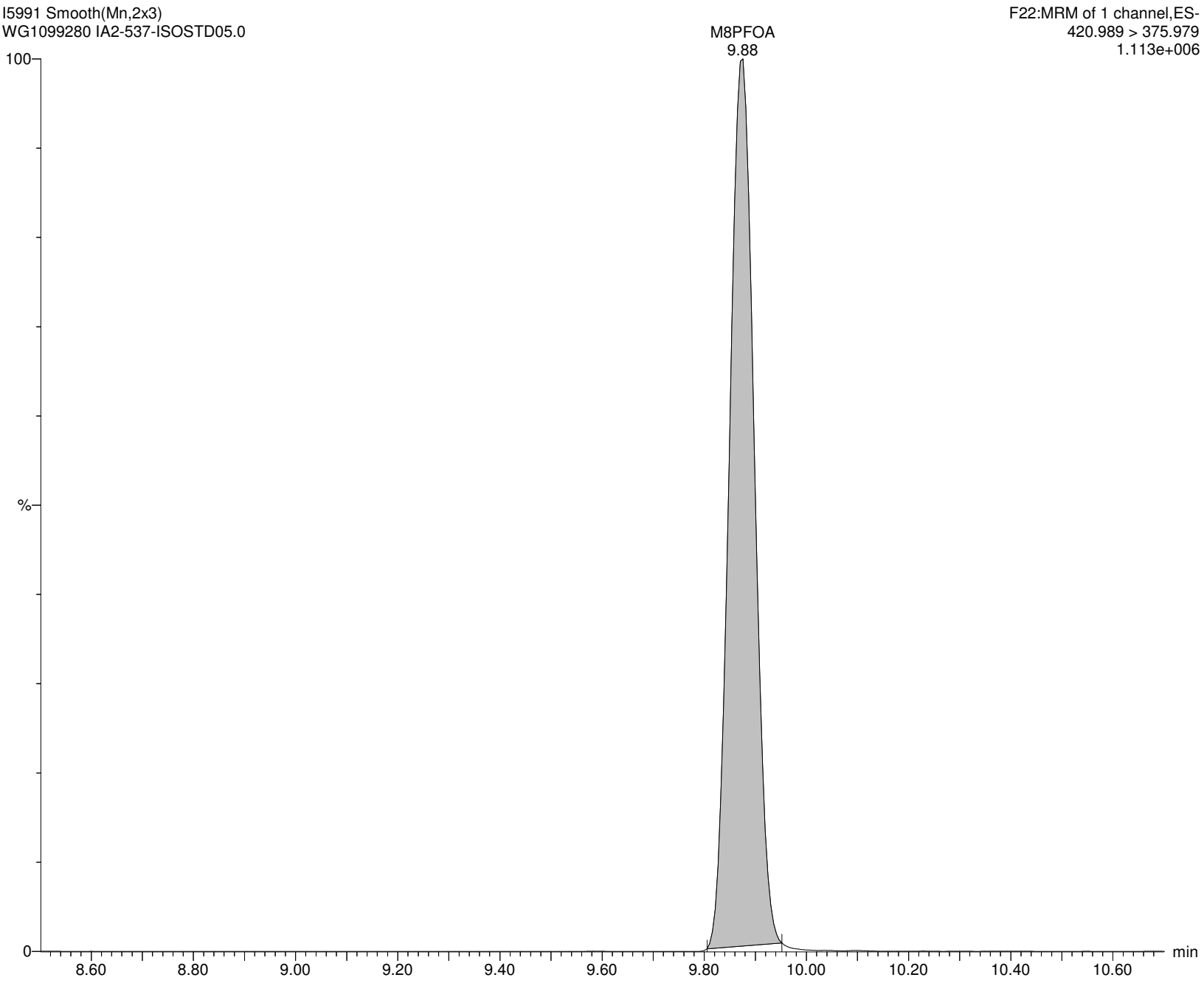

all concentration units in (ng/mL)

Alpha Analytical Inc.
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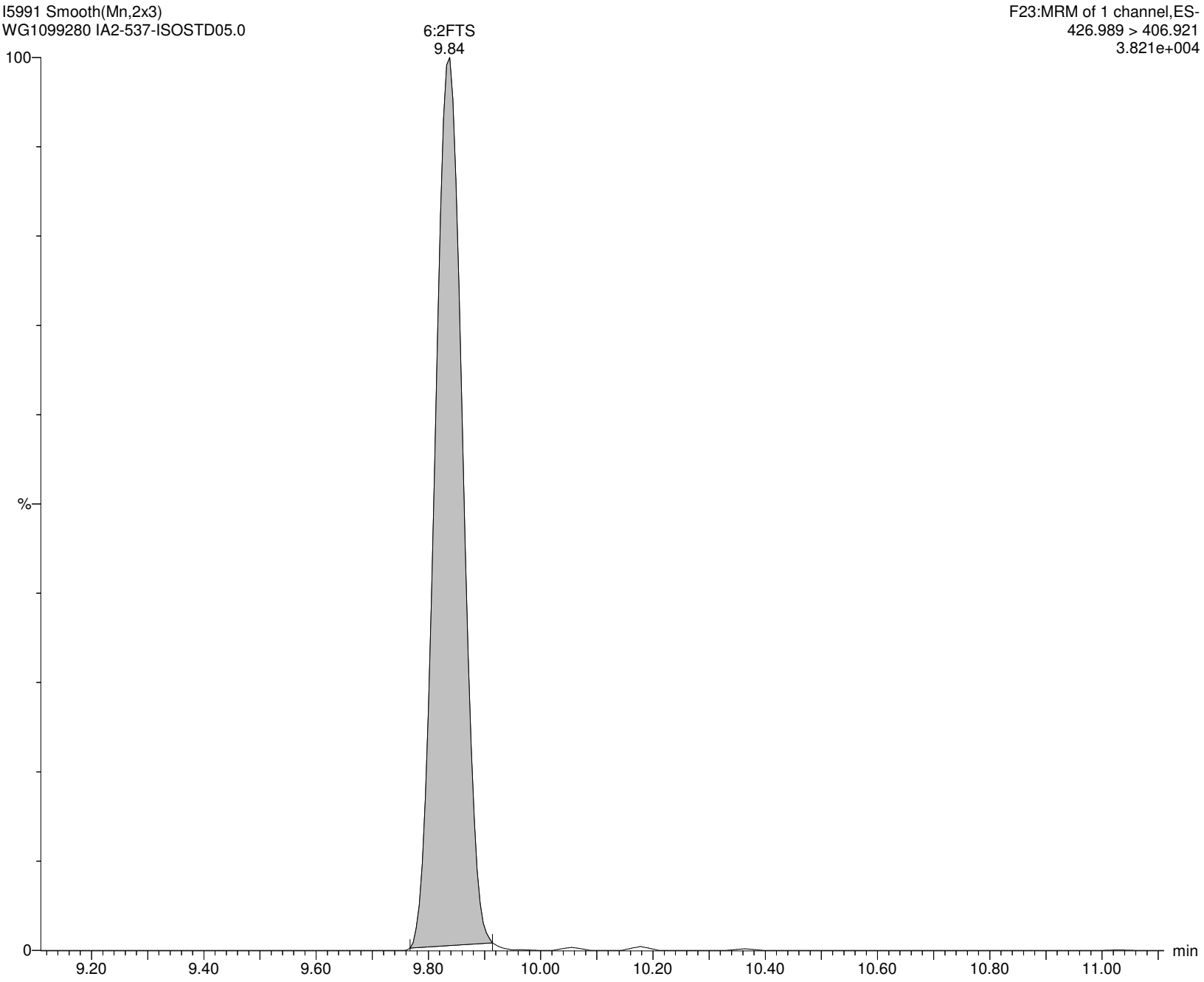

all concentration units in (ng/mL)

Alpha Analytical Inc.
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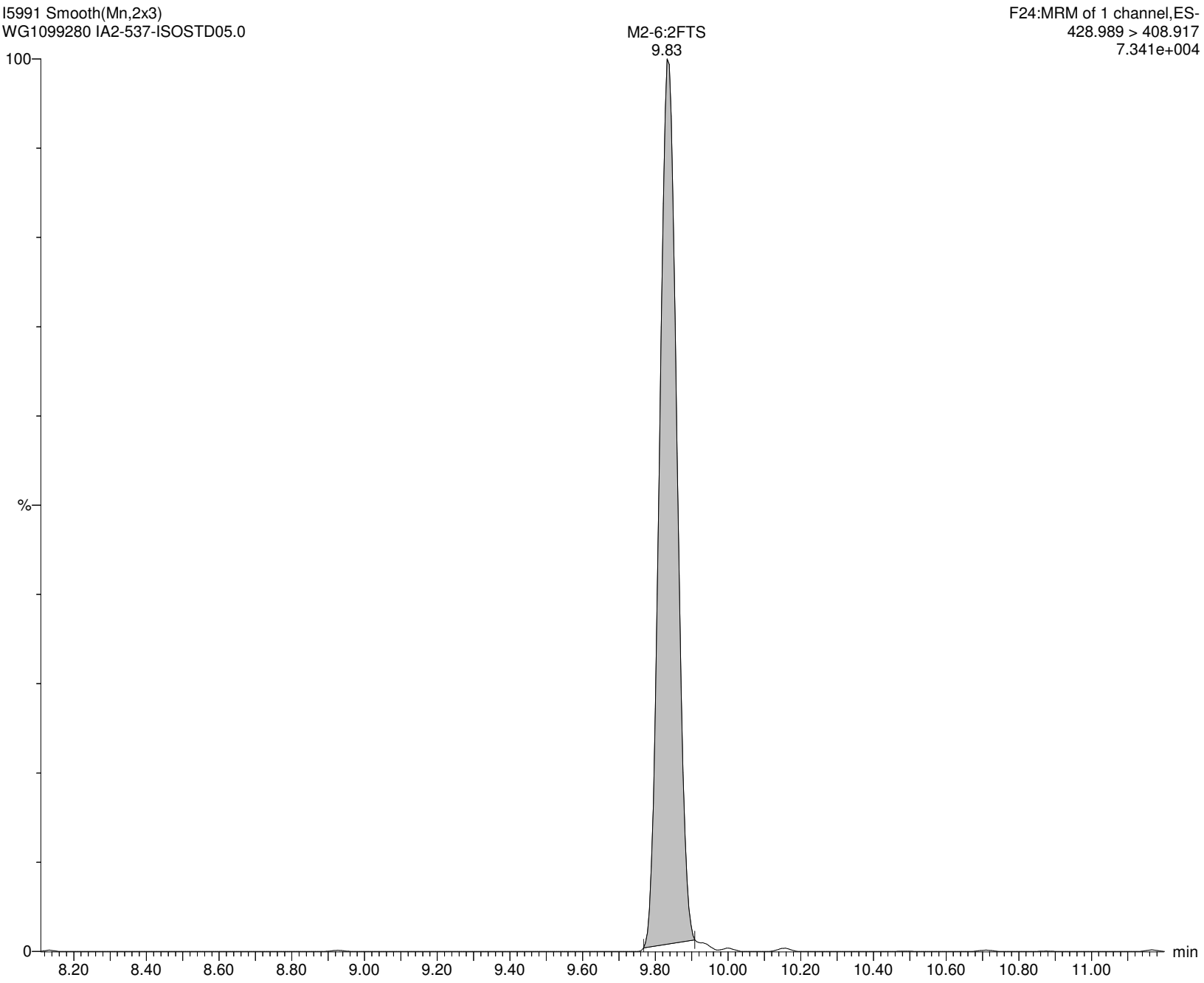

all concentration units in (ng/mL)

Alpha Analytical Inc.
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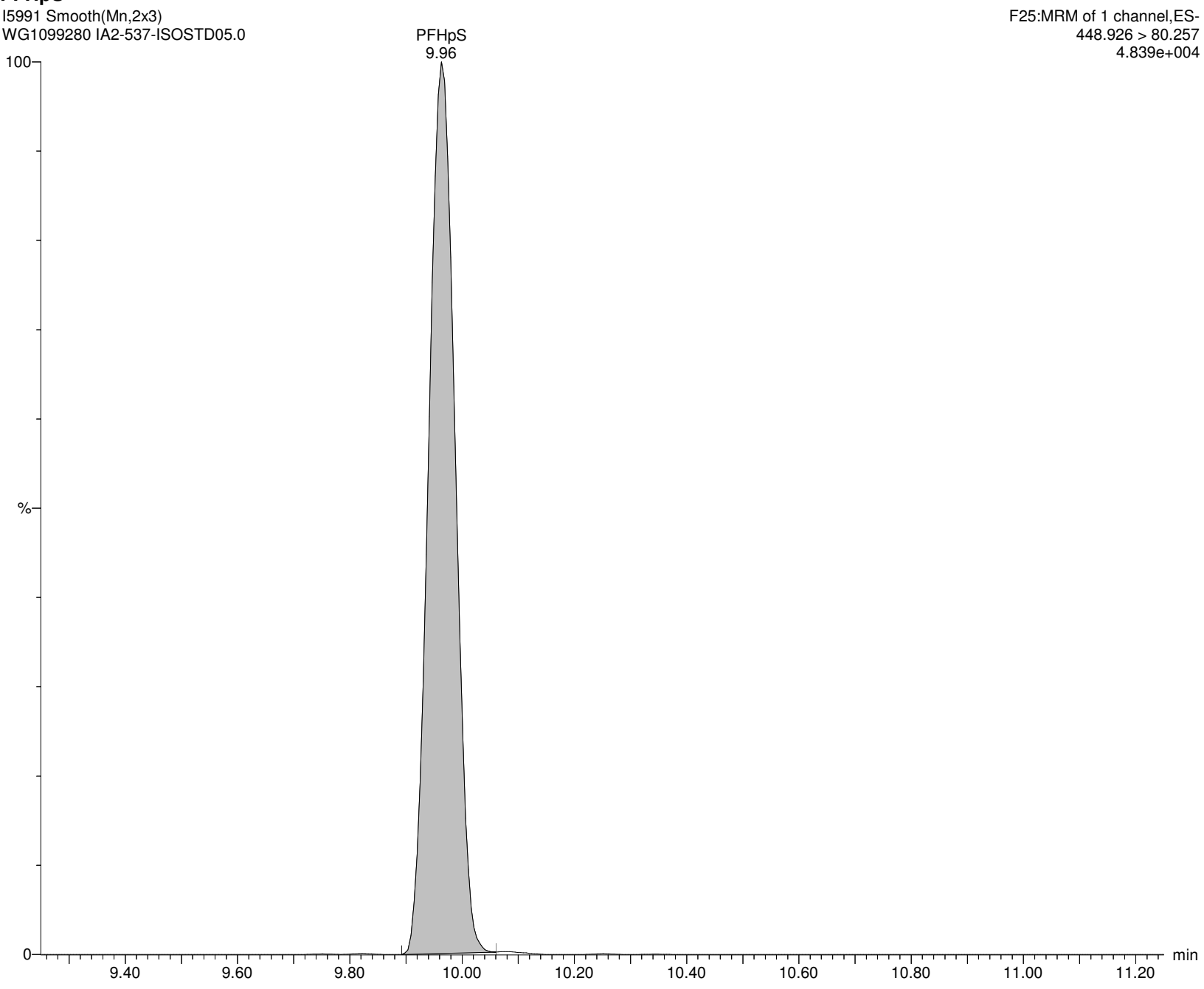

all concentration units in (ng/mL)

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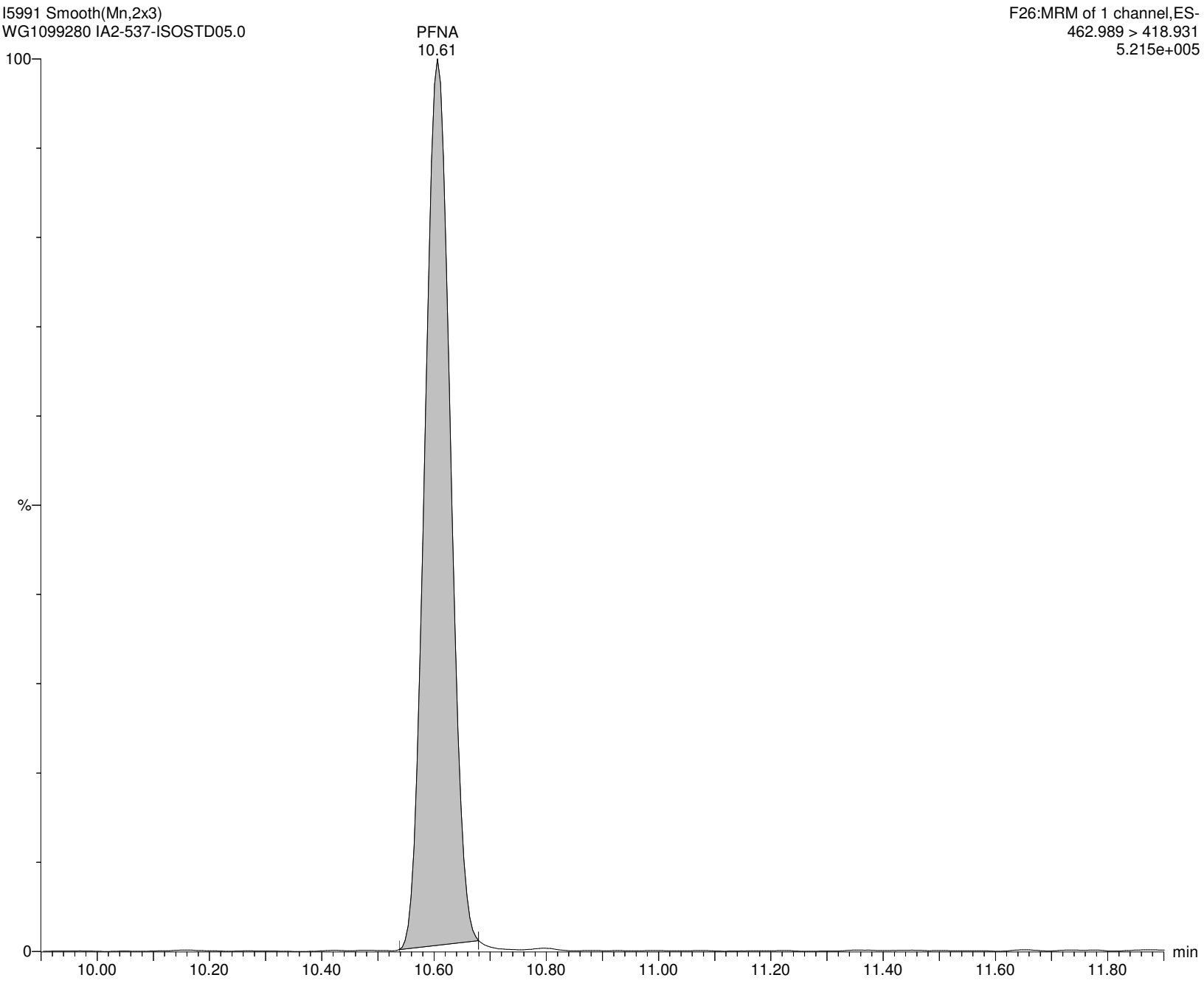

all concentration units in (ng/mL)

Alpha Analytical Inc.
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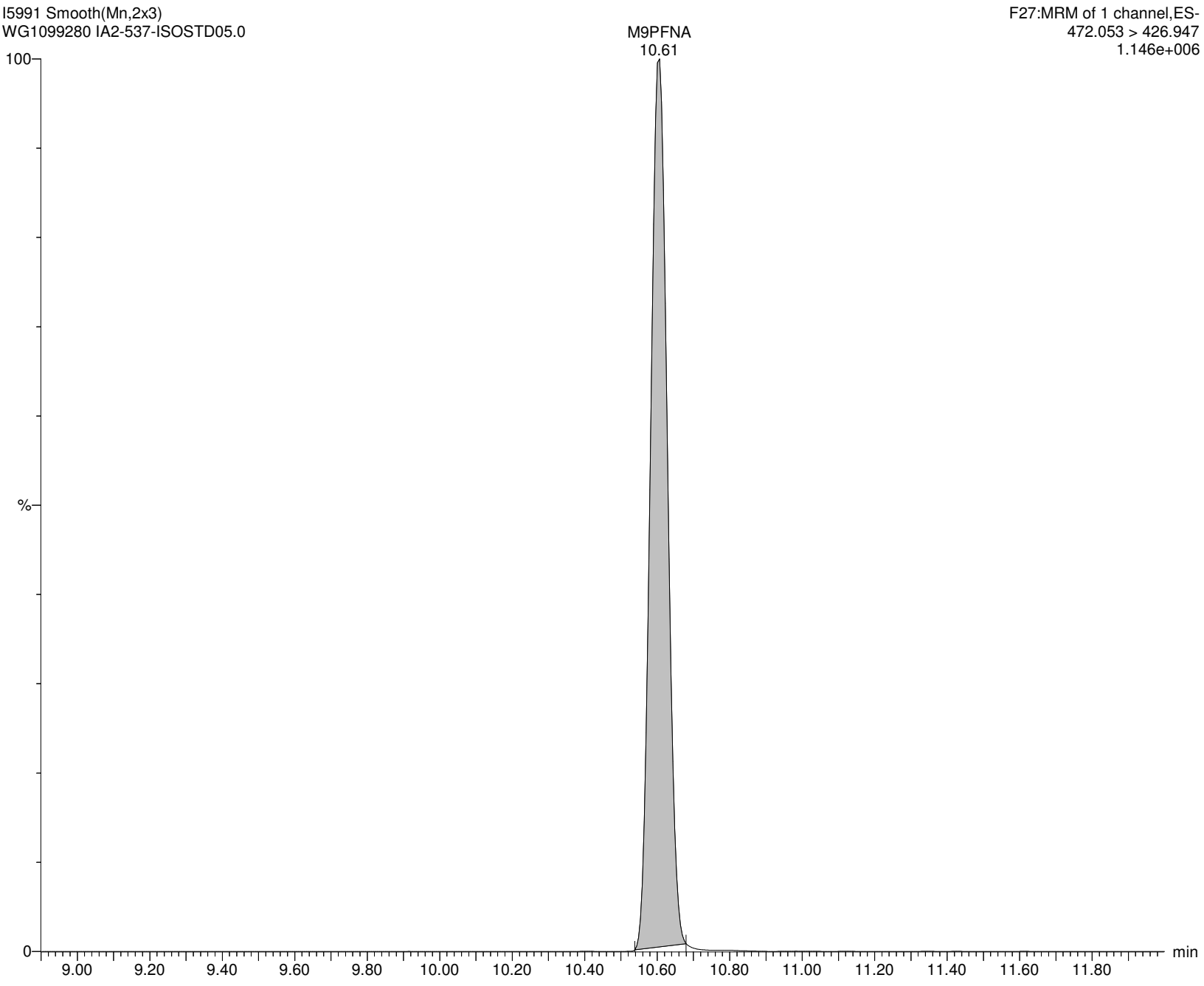

all concentration units in (ng/mL)

Alpha Analytical Inc.
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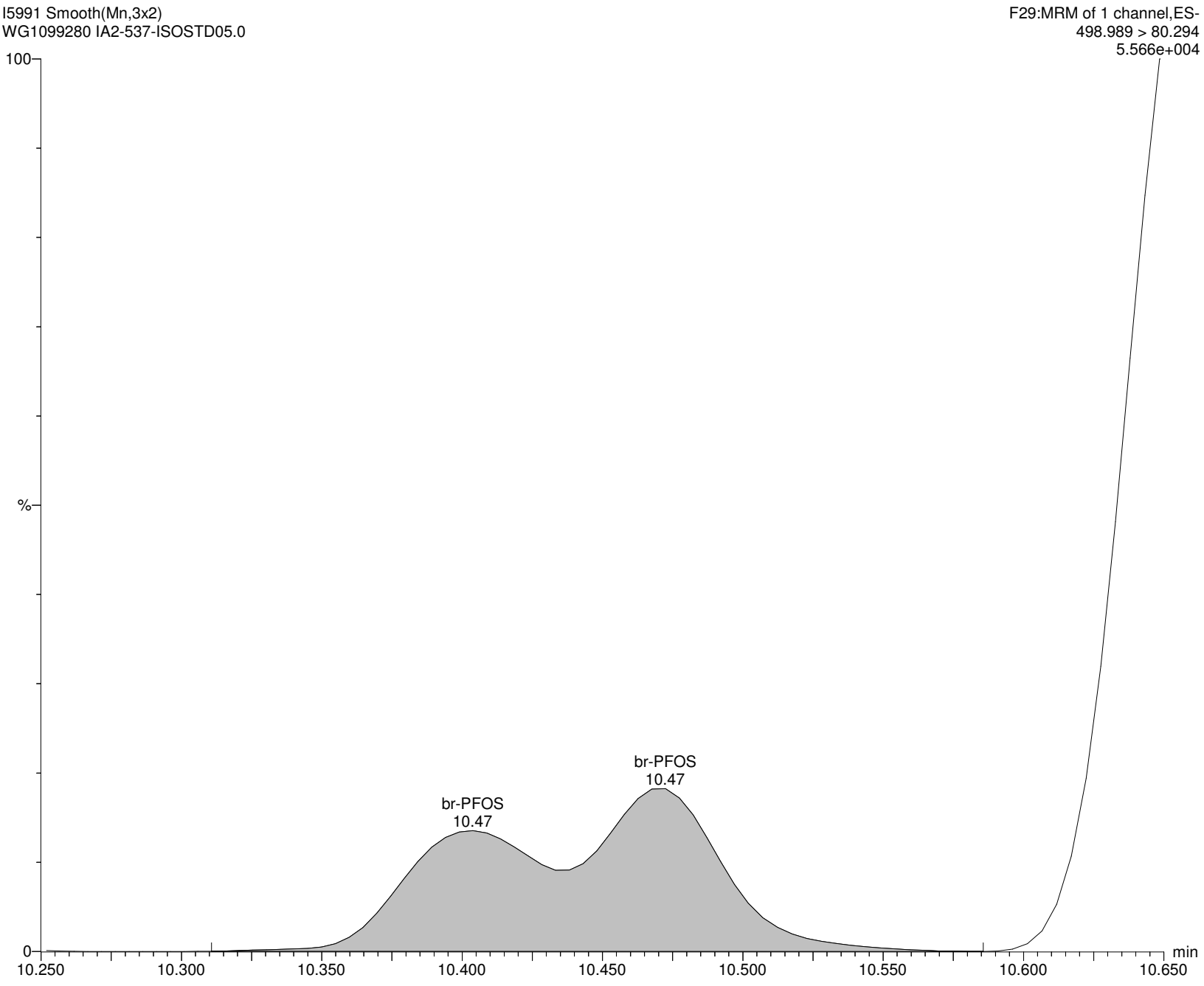

all concentration units in (ng/mL)

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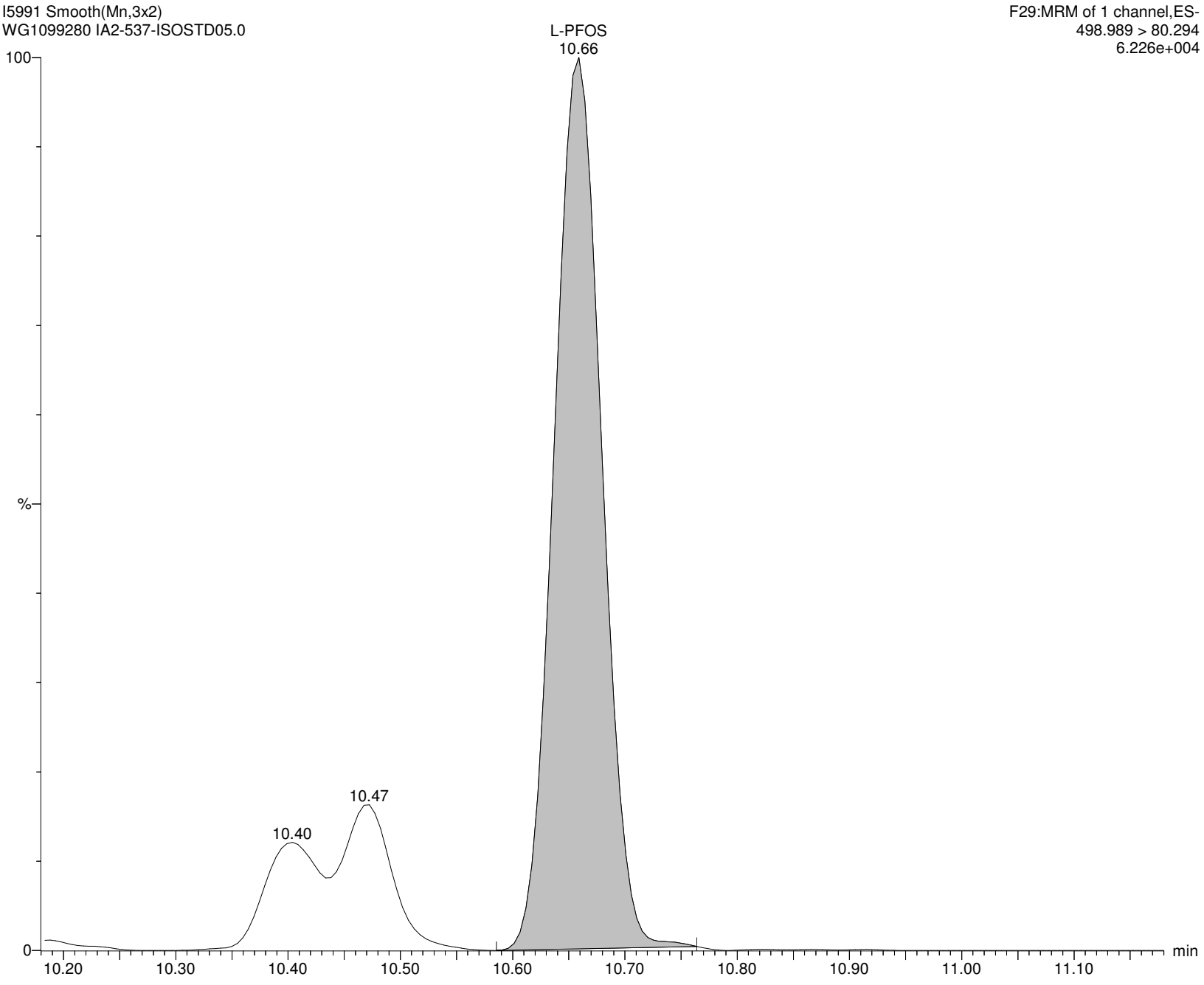

all concentration units in (ng/mL)

Alpha Analytical Inc.
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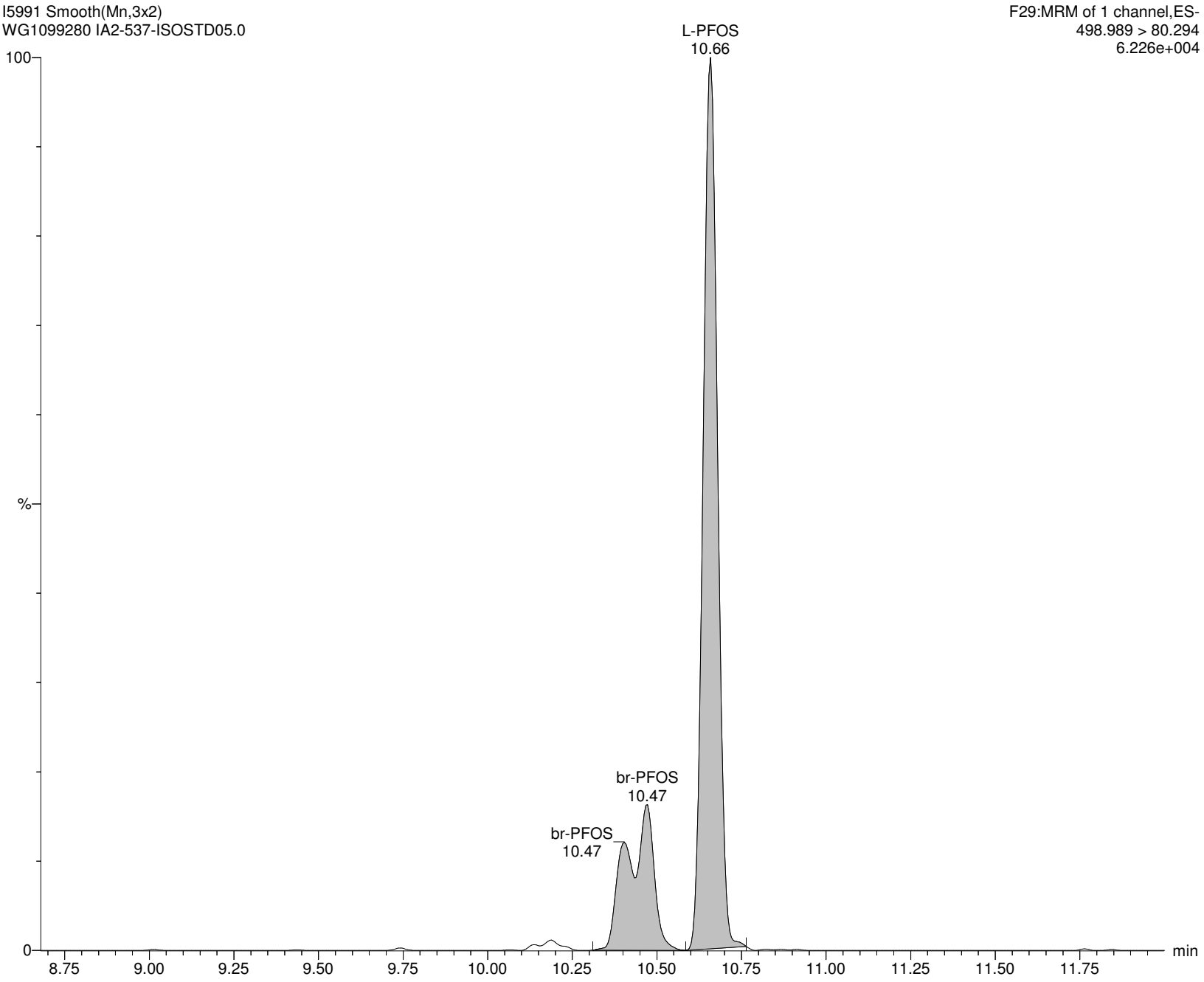

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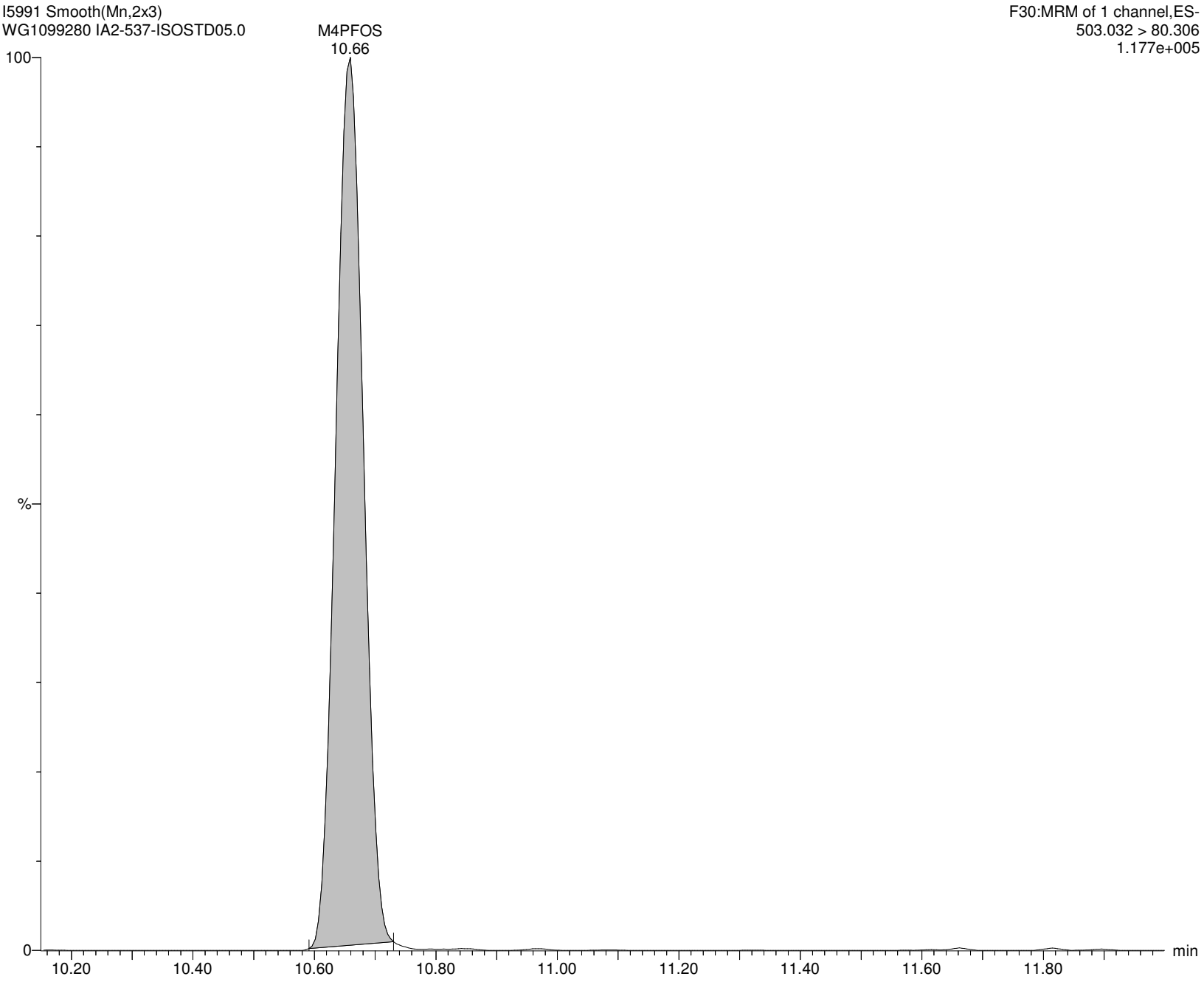

all concentration units in (ng/mL)

Alpha Analytical Inc.
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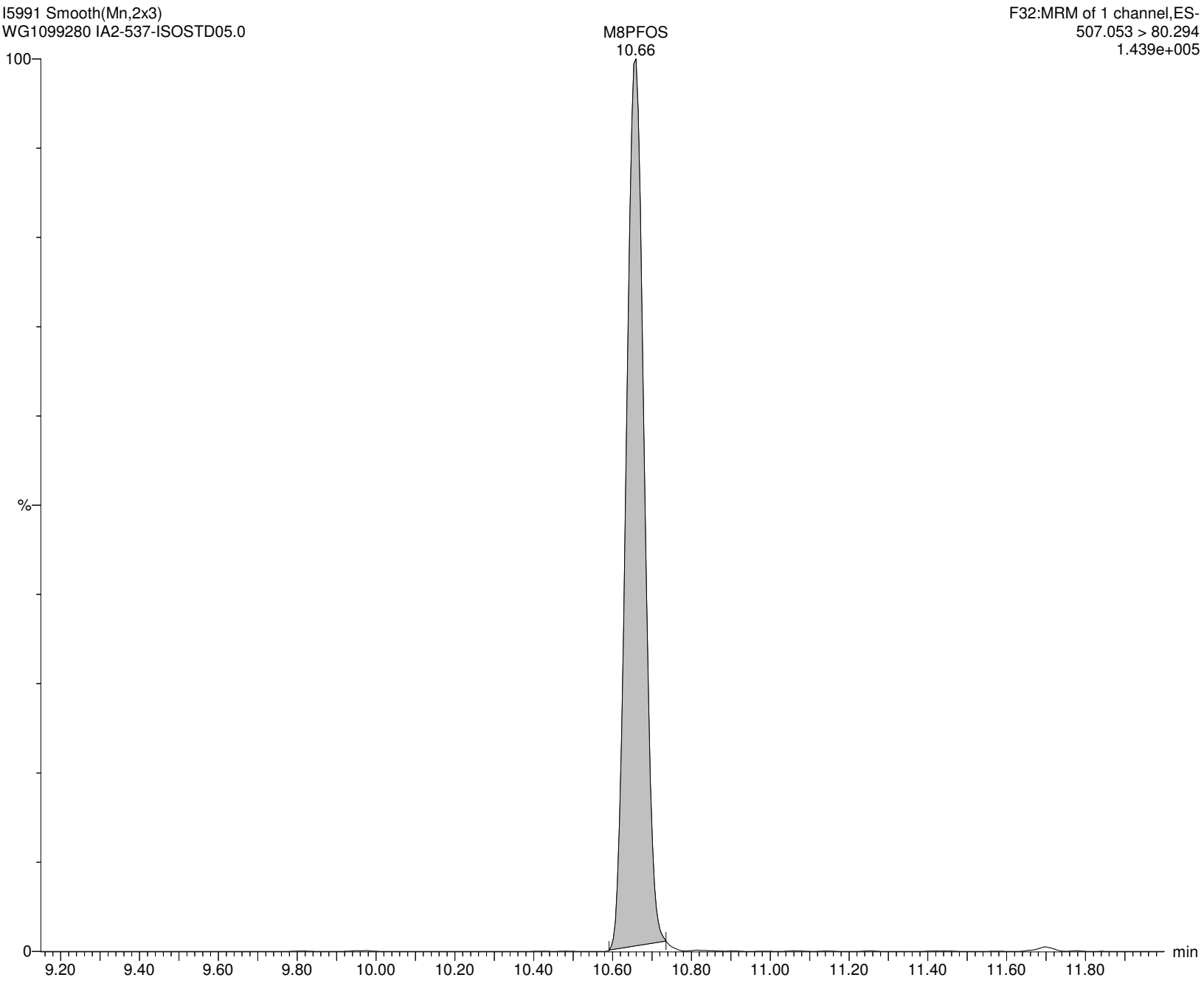

all concentration units in (ng/mL)

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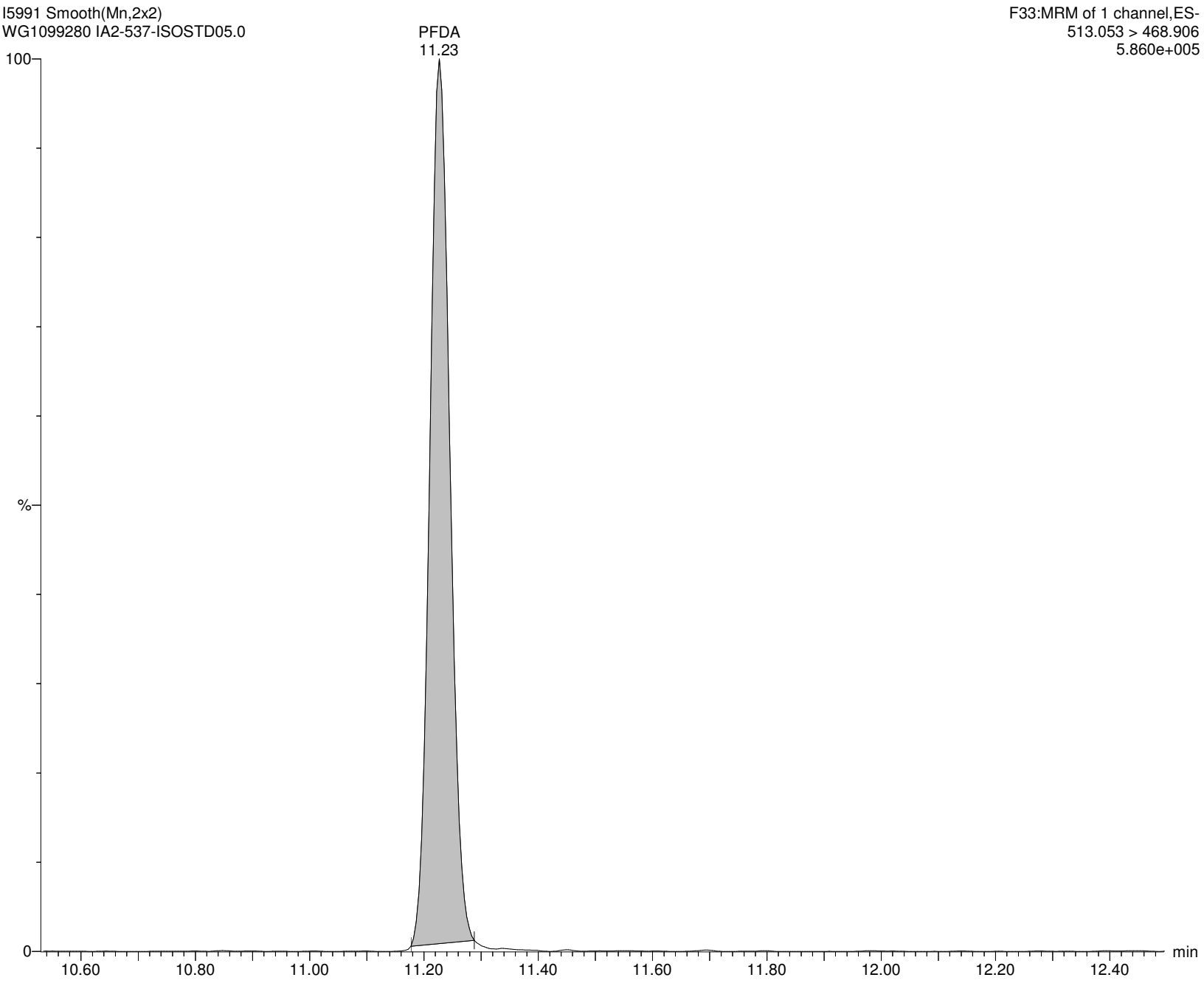

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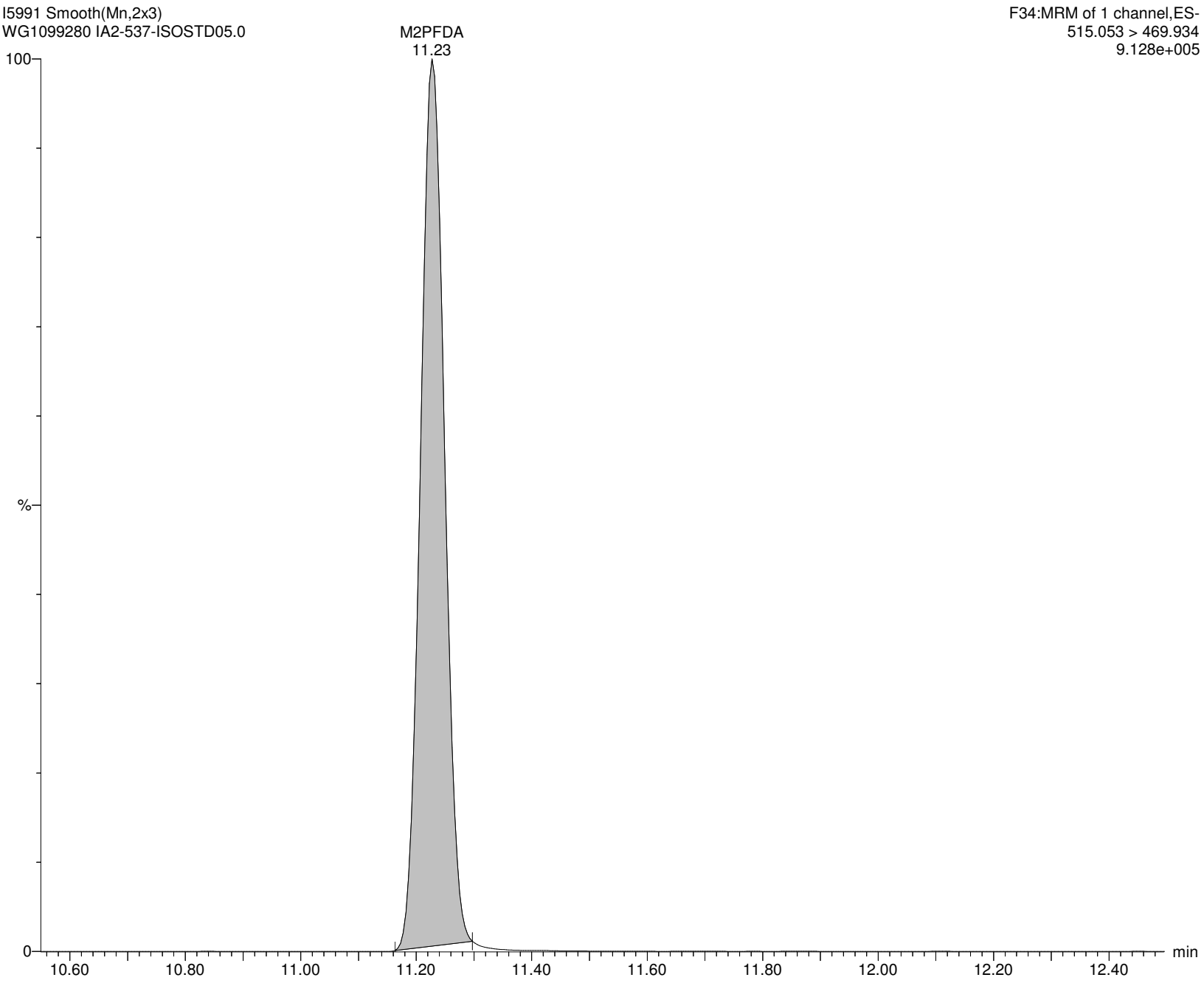
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:49 Eastern Daylight Time

Name: I5991
ID: IA2-537-ISOSTD05.0
Date: 21-Mar-2018
Time: 16:41:51
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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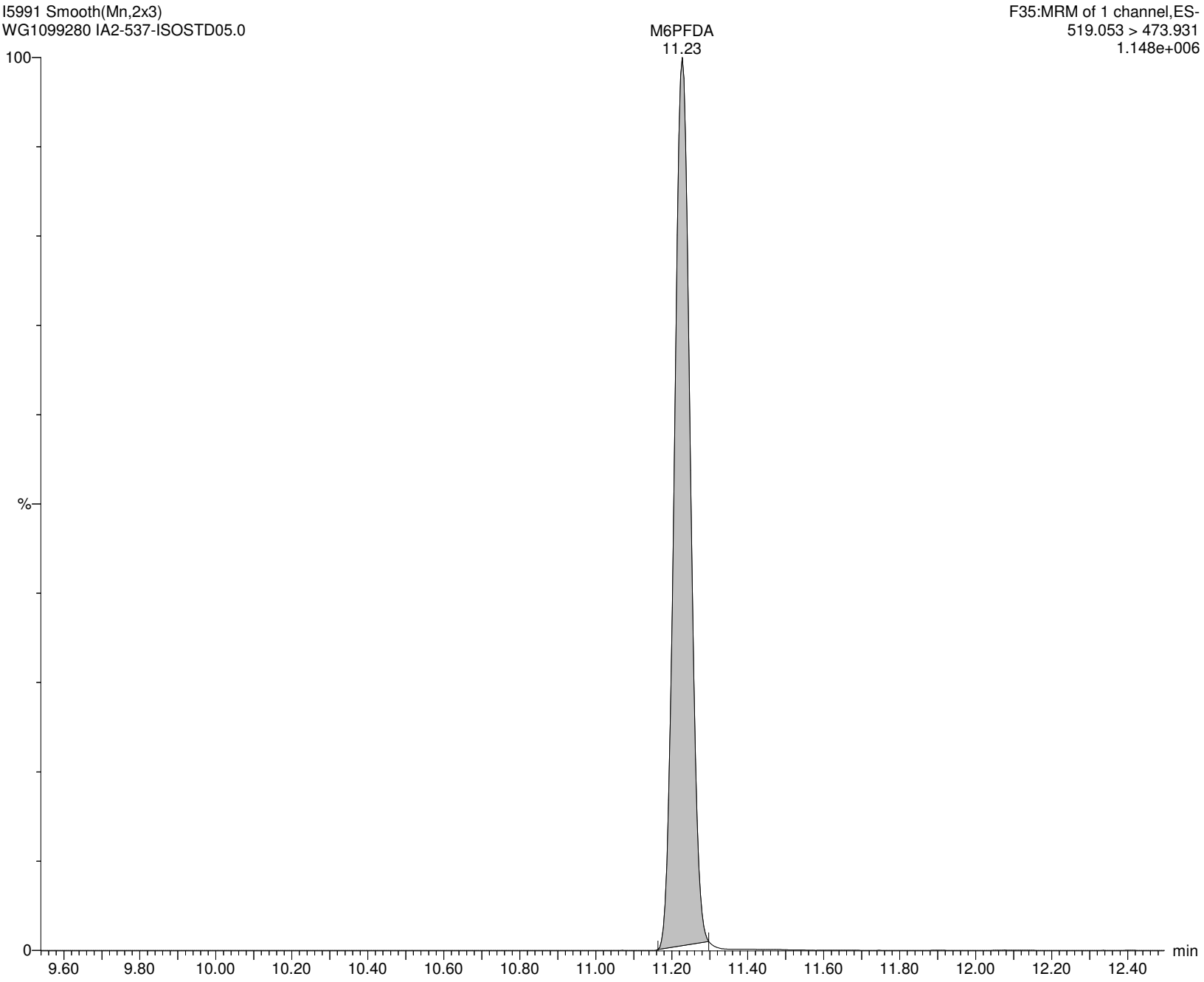

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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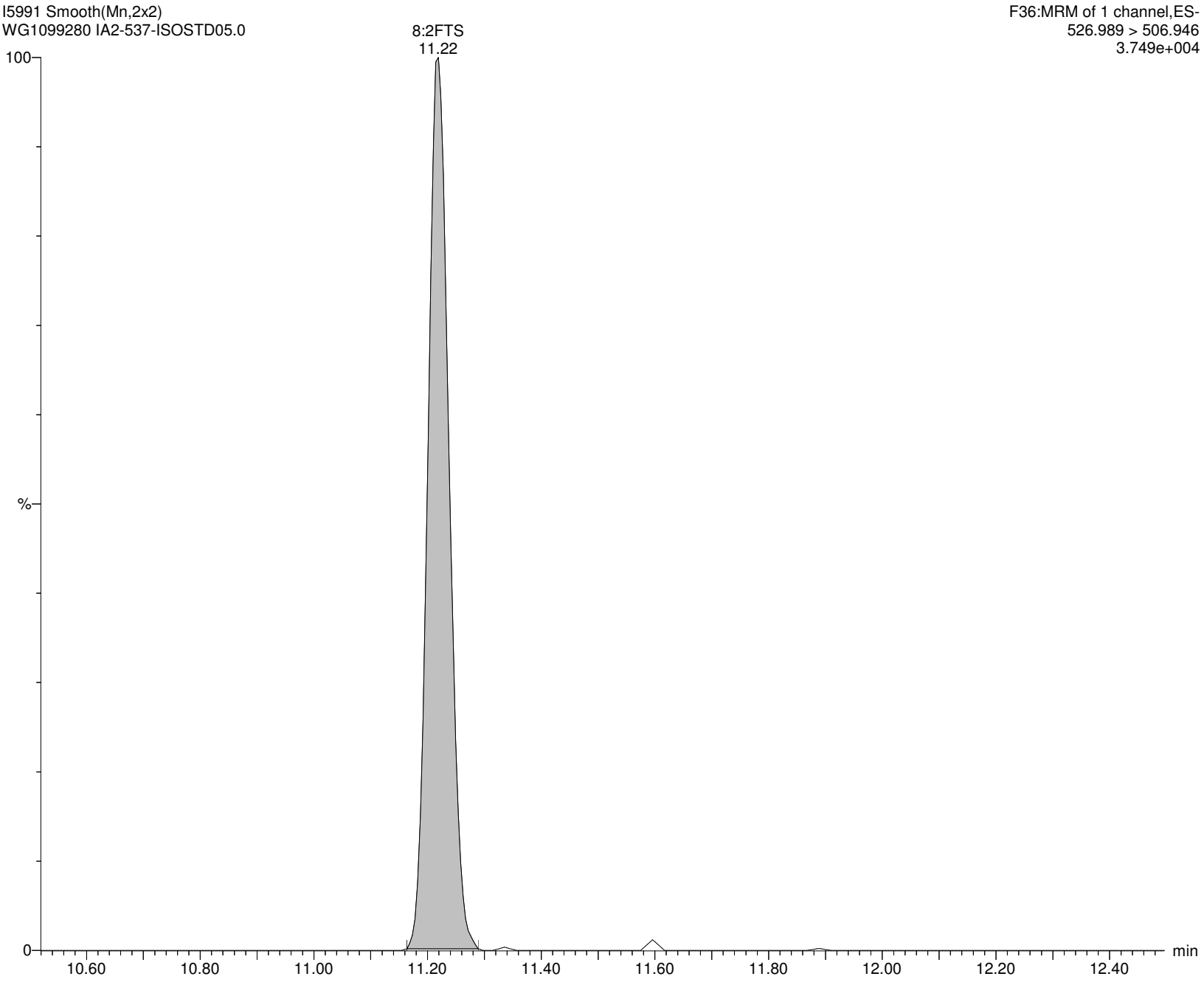
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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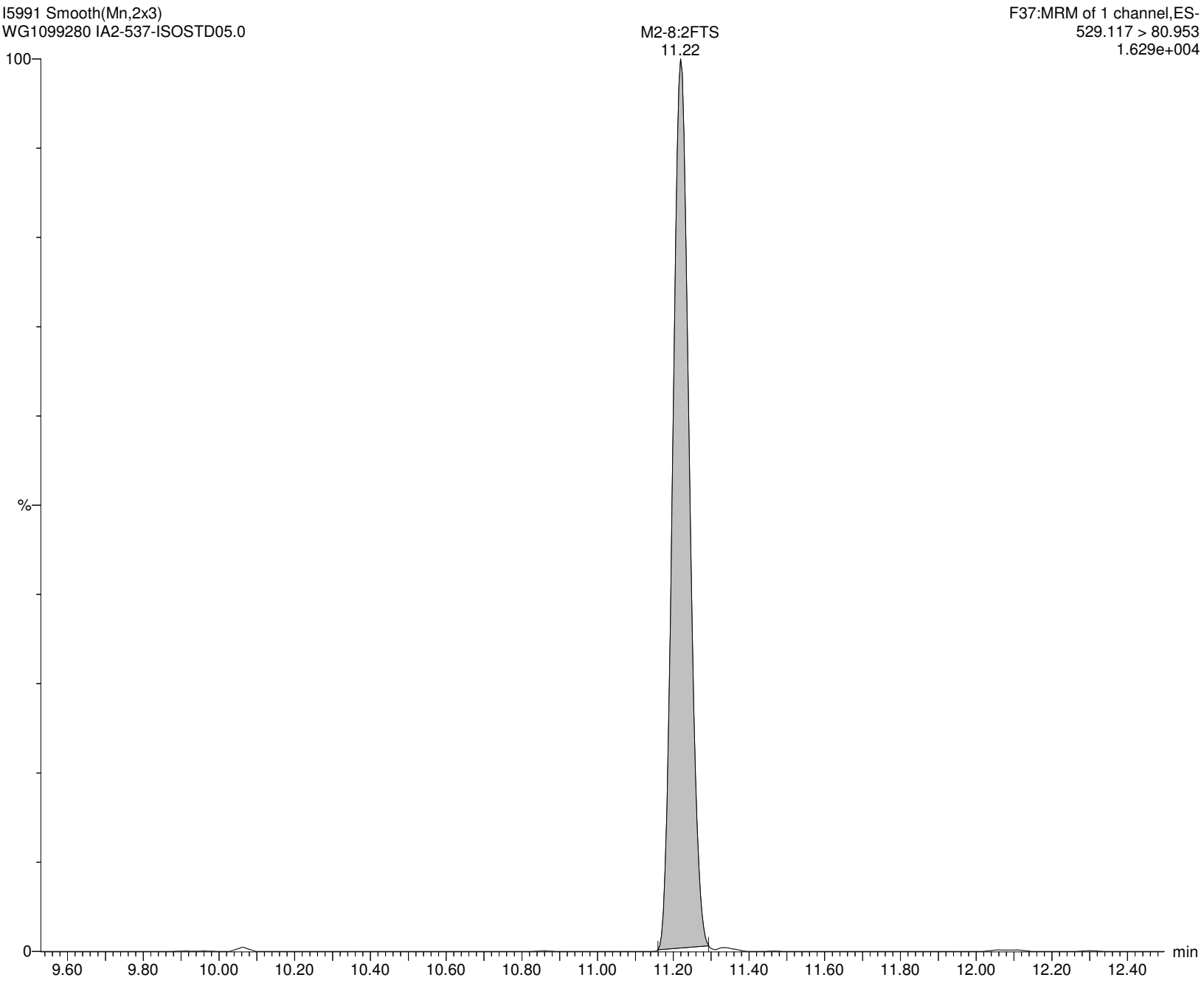
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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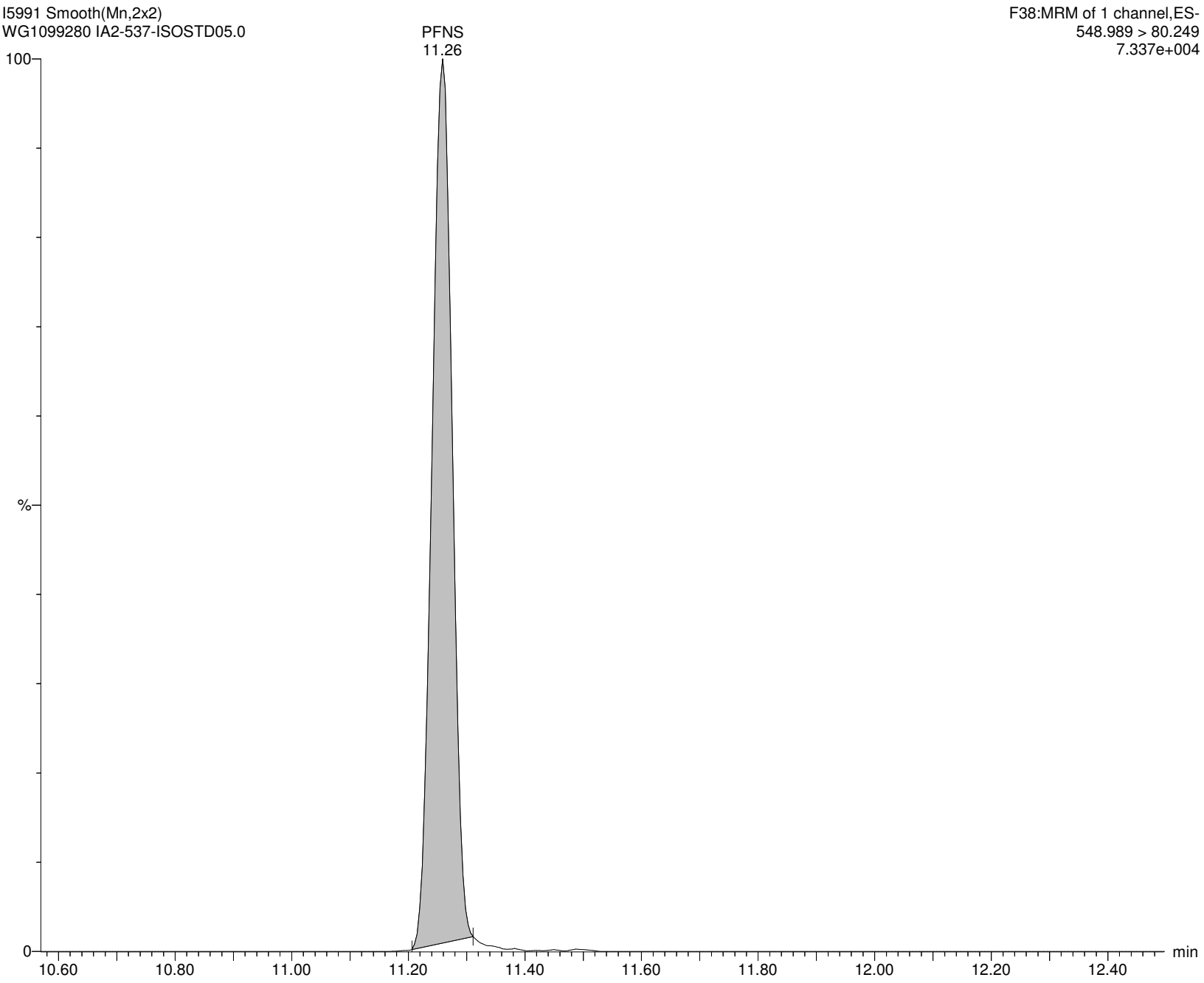

all concentration units in (ng/mL)

Alpha Analytical Inc.
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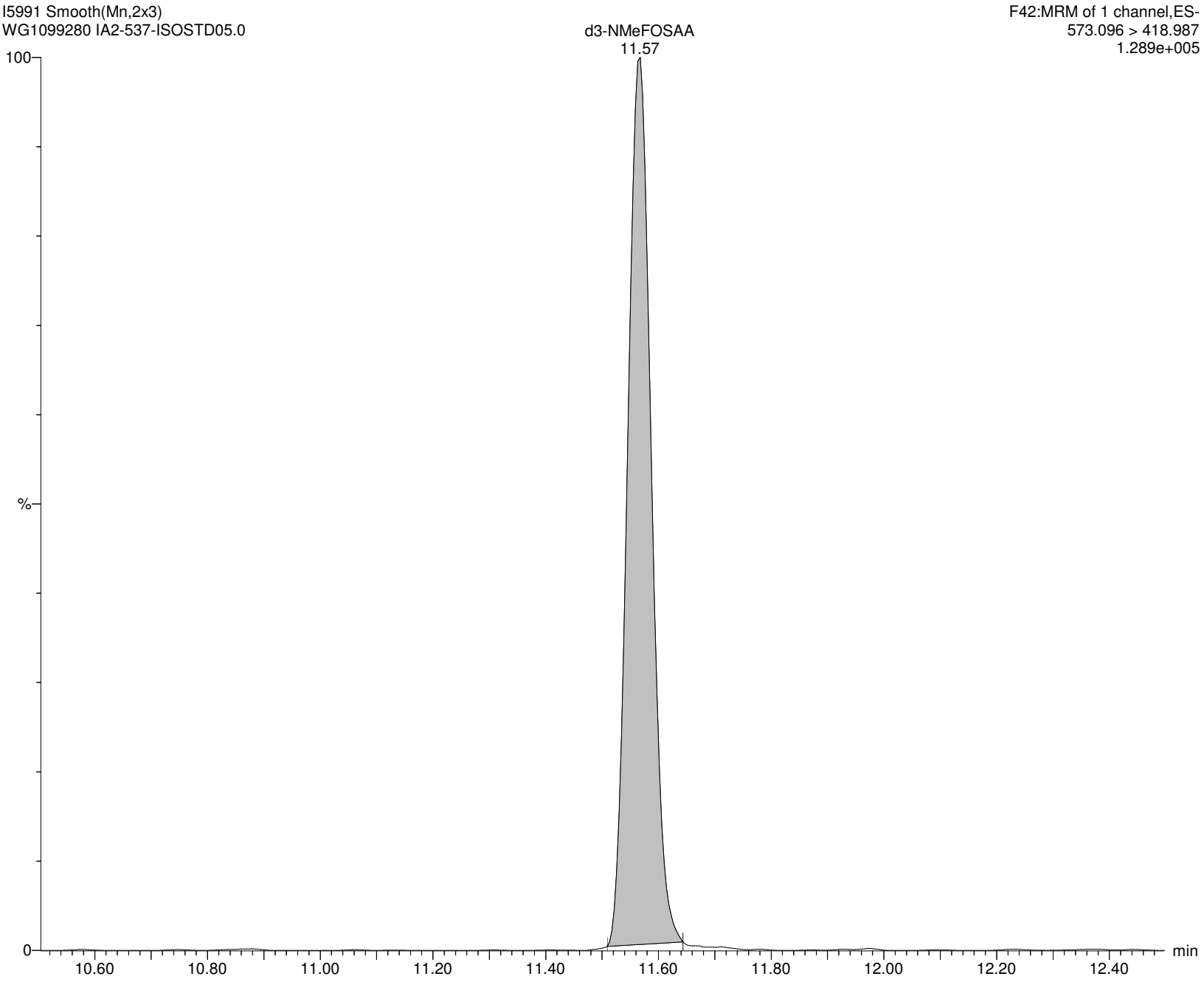

all concentration units in (ng/mL)

Alpha Analytical Inc.
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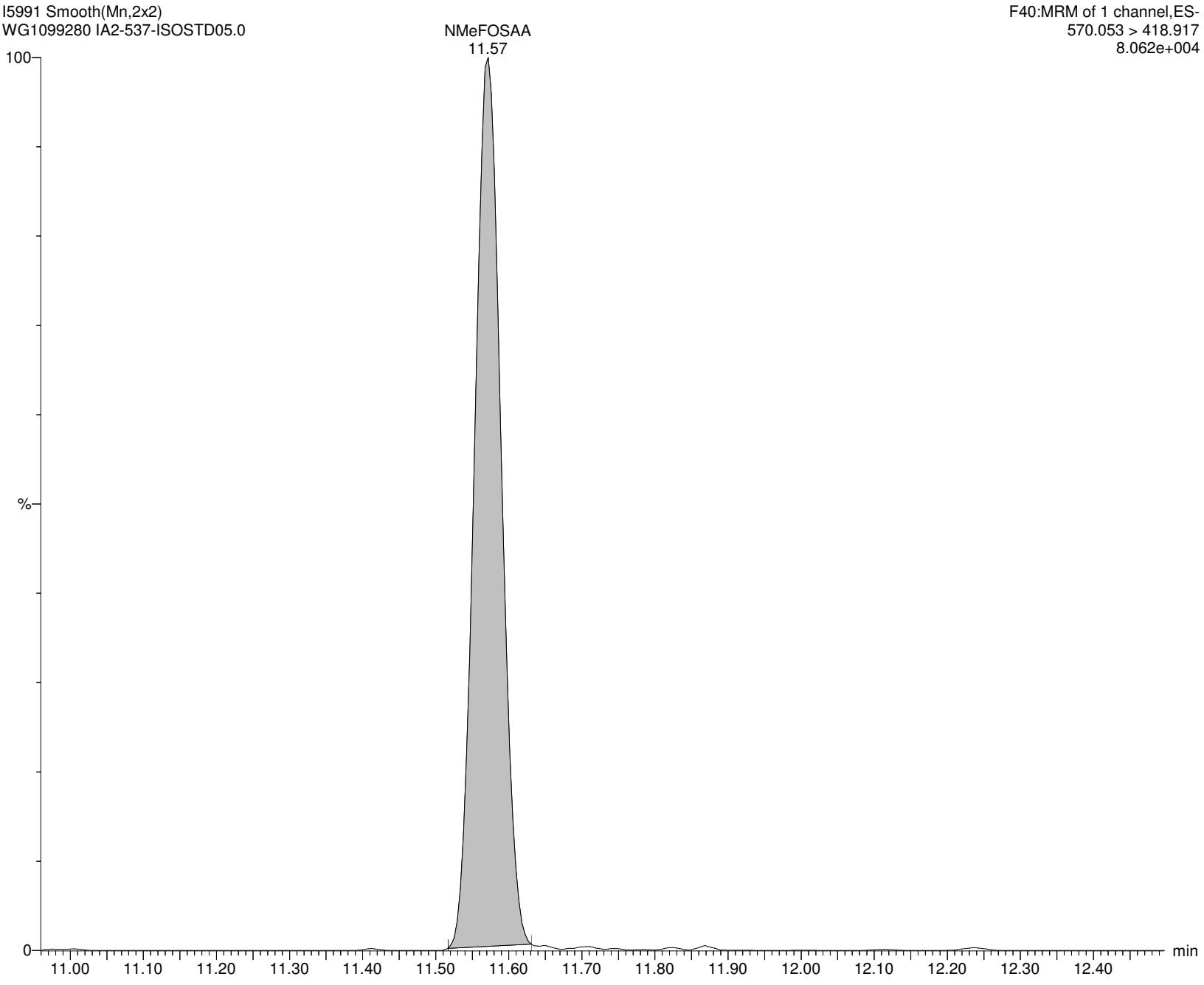

all concentration units in (ng/mL)

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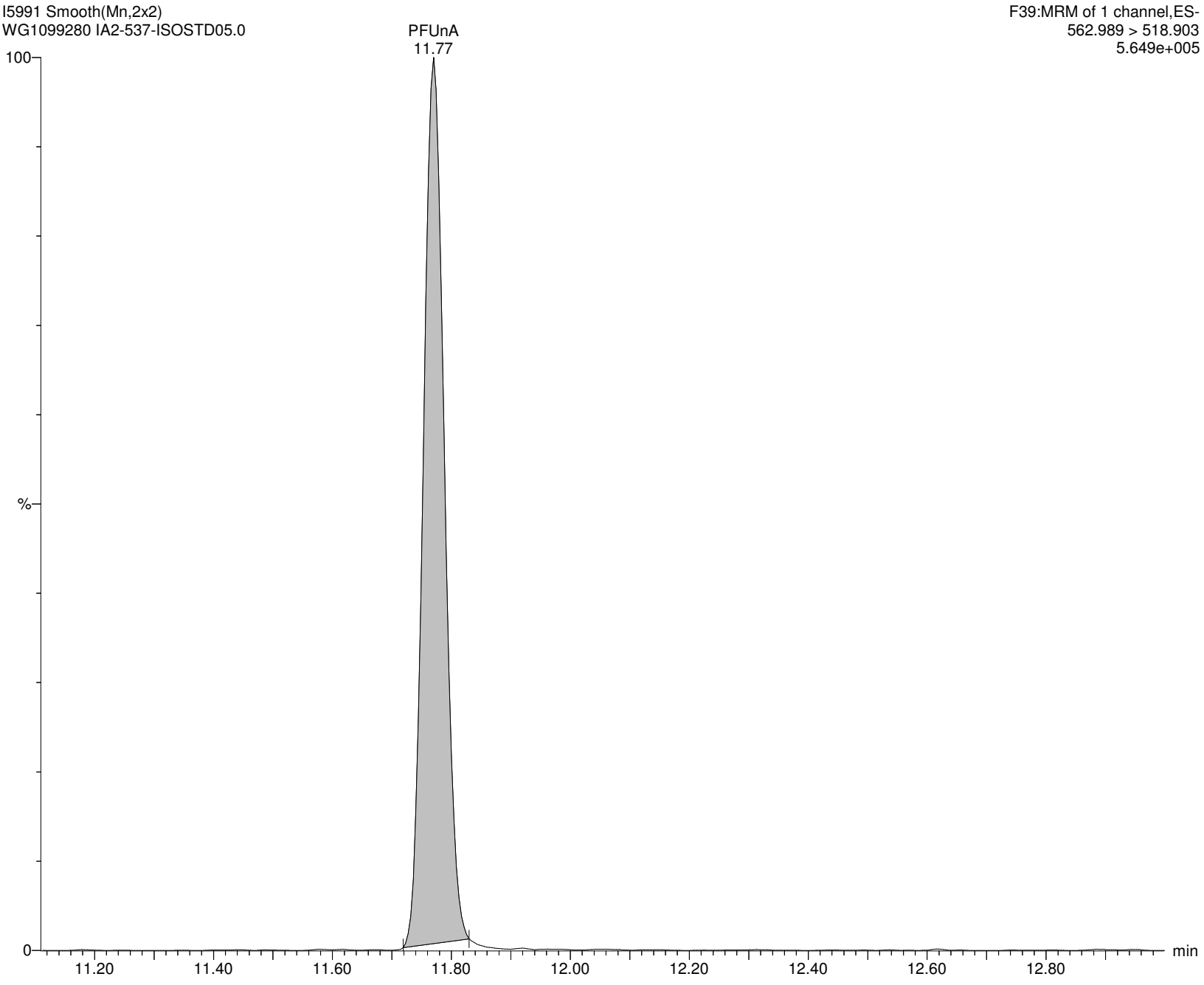

all concentration units in (ng/mL)

Alpha Analytical Inc.
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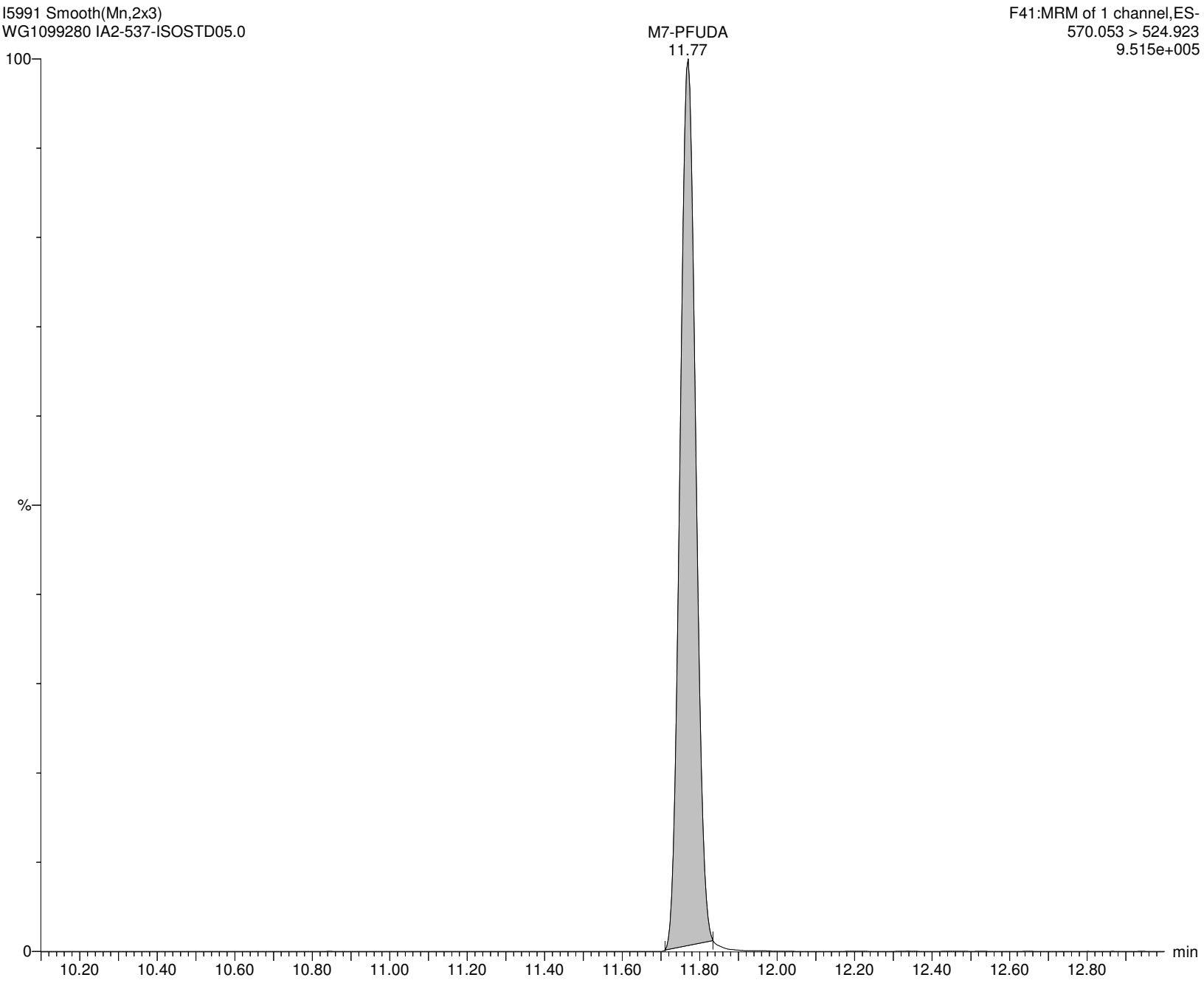
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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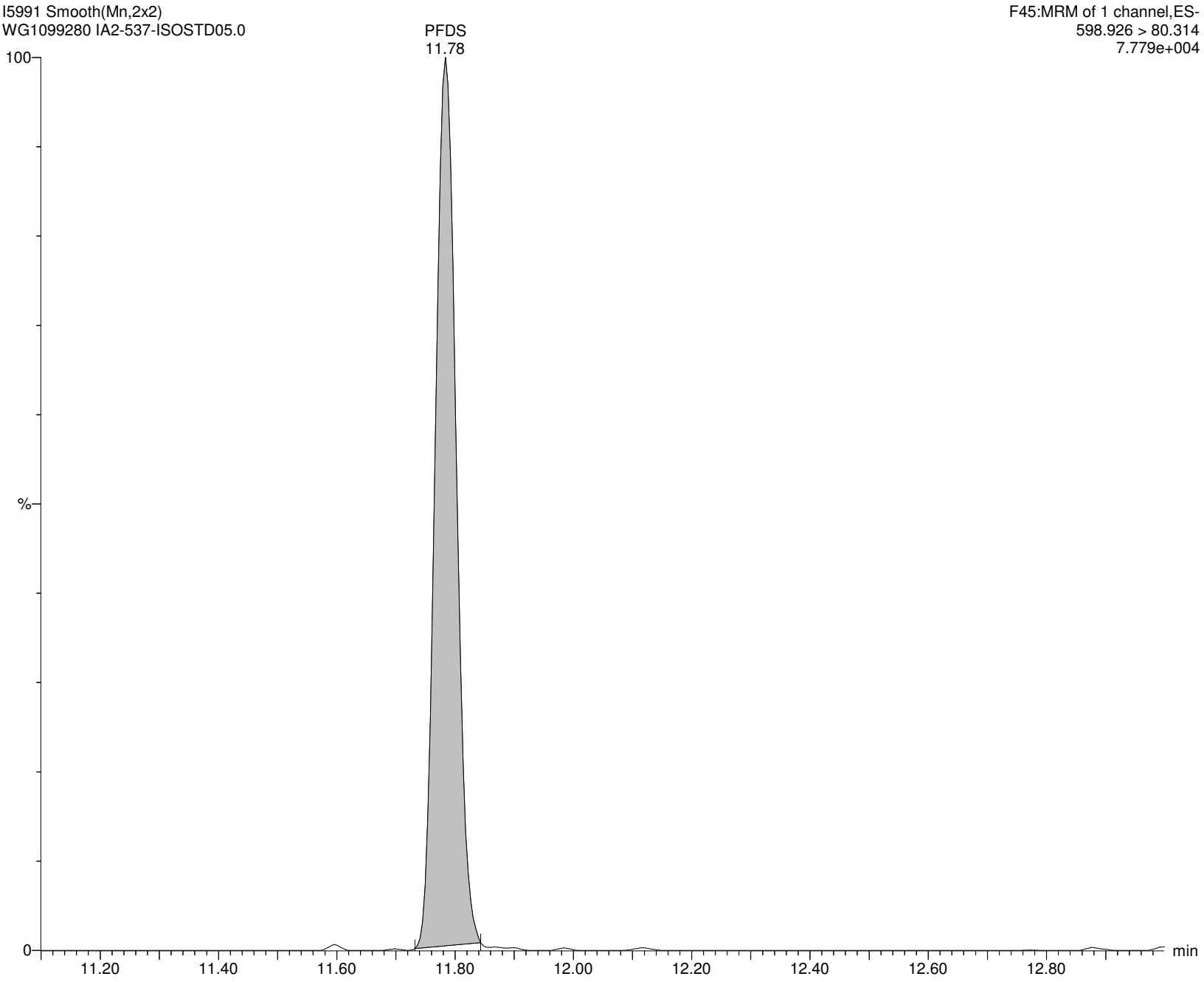

all concentration units in (ng/mL)

Alpha Analytical Inc.
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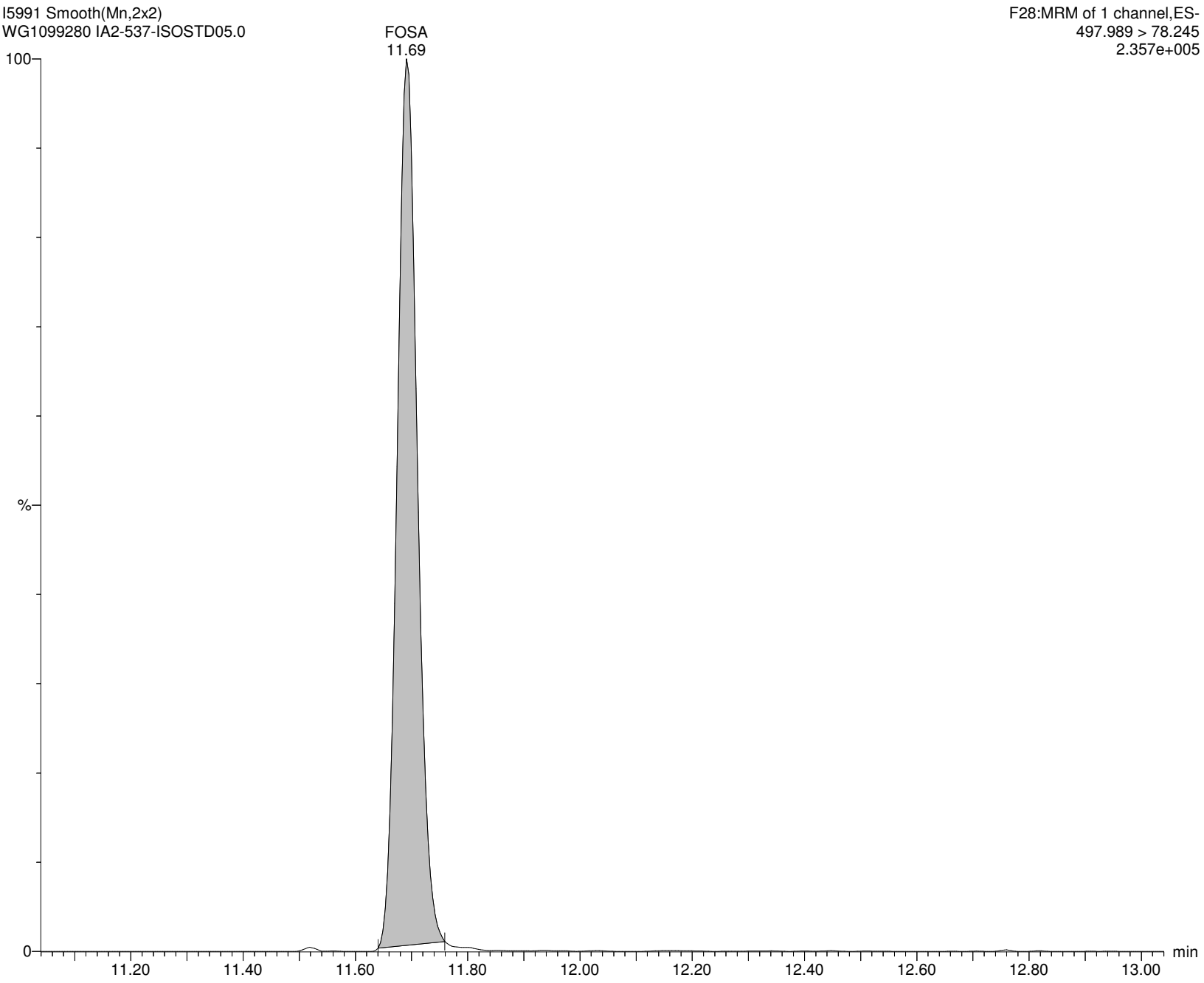

all concentration units in (ng/mL)

Alpha Analytical Inc.
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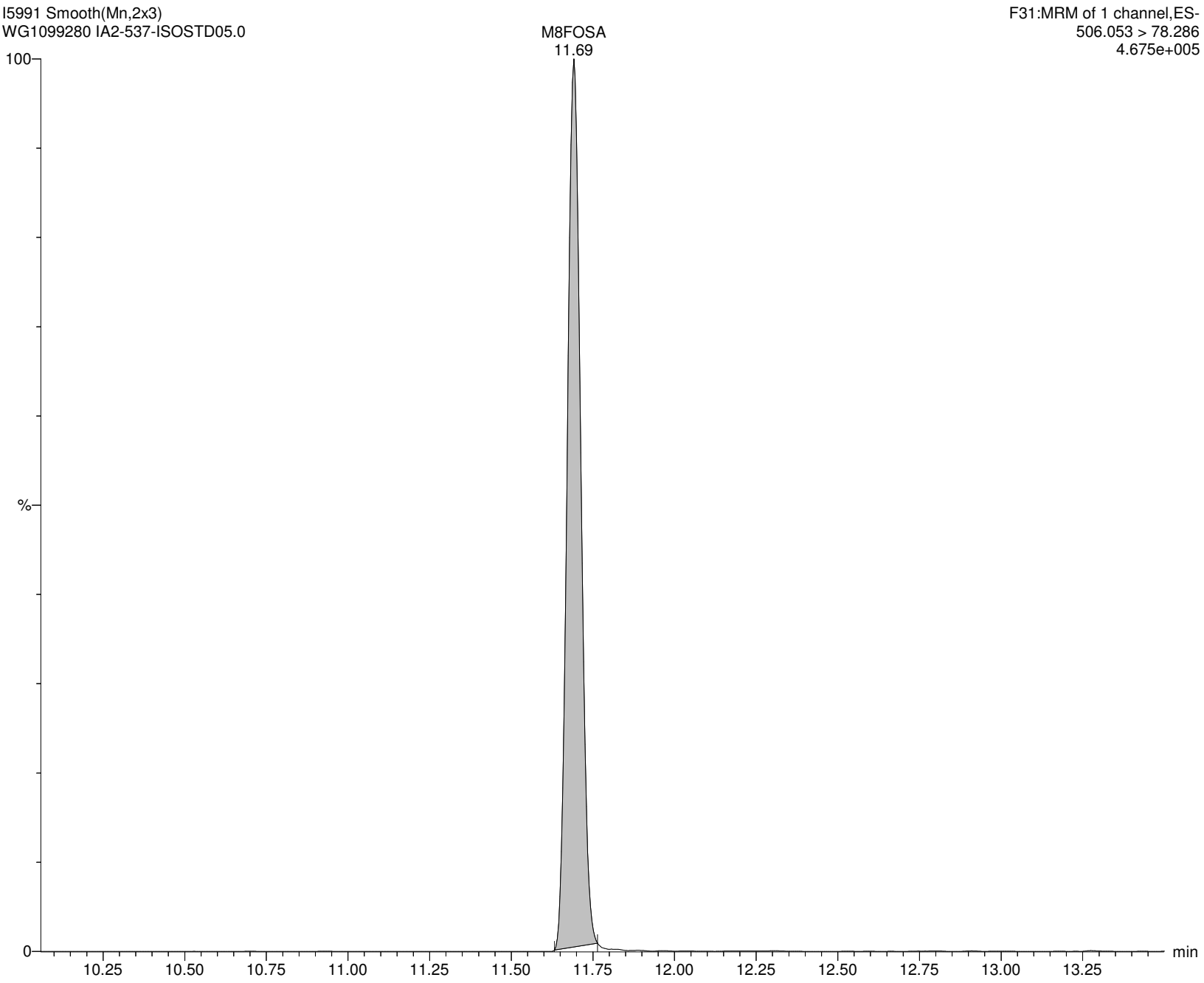

all concentration units in (ng/mL)

Alpha Analytical Inc.
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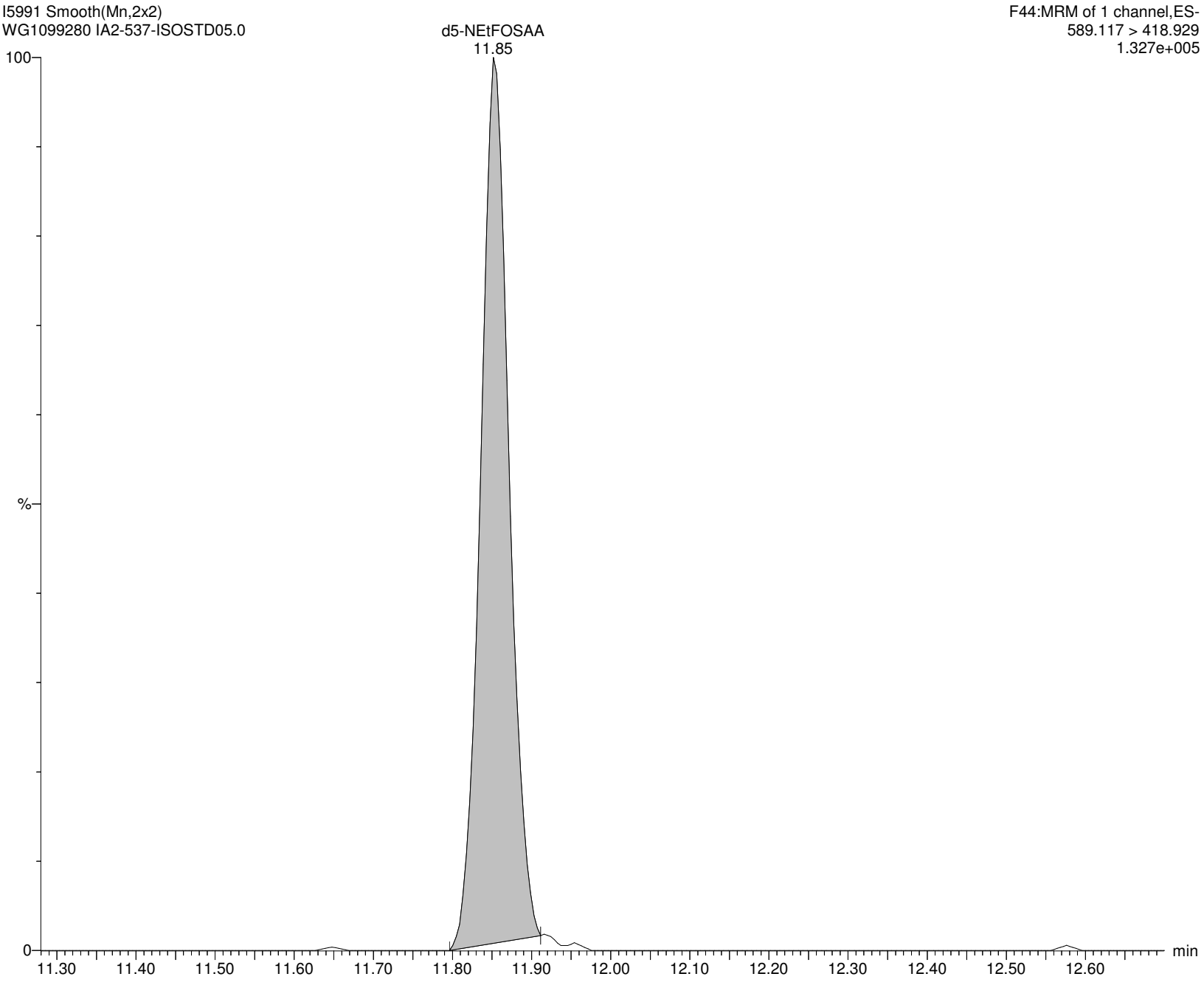

all concentration units in (ng/mL)

Alpha Analytical Inc.
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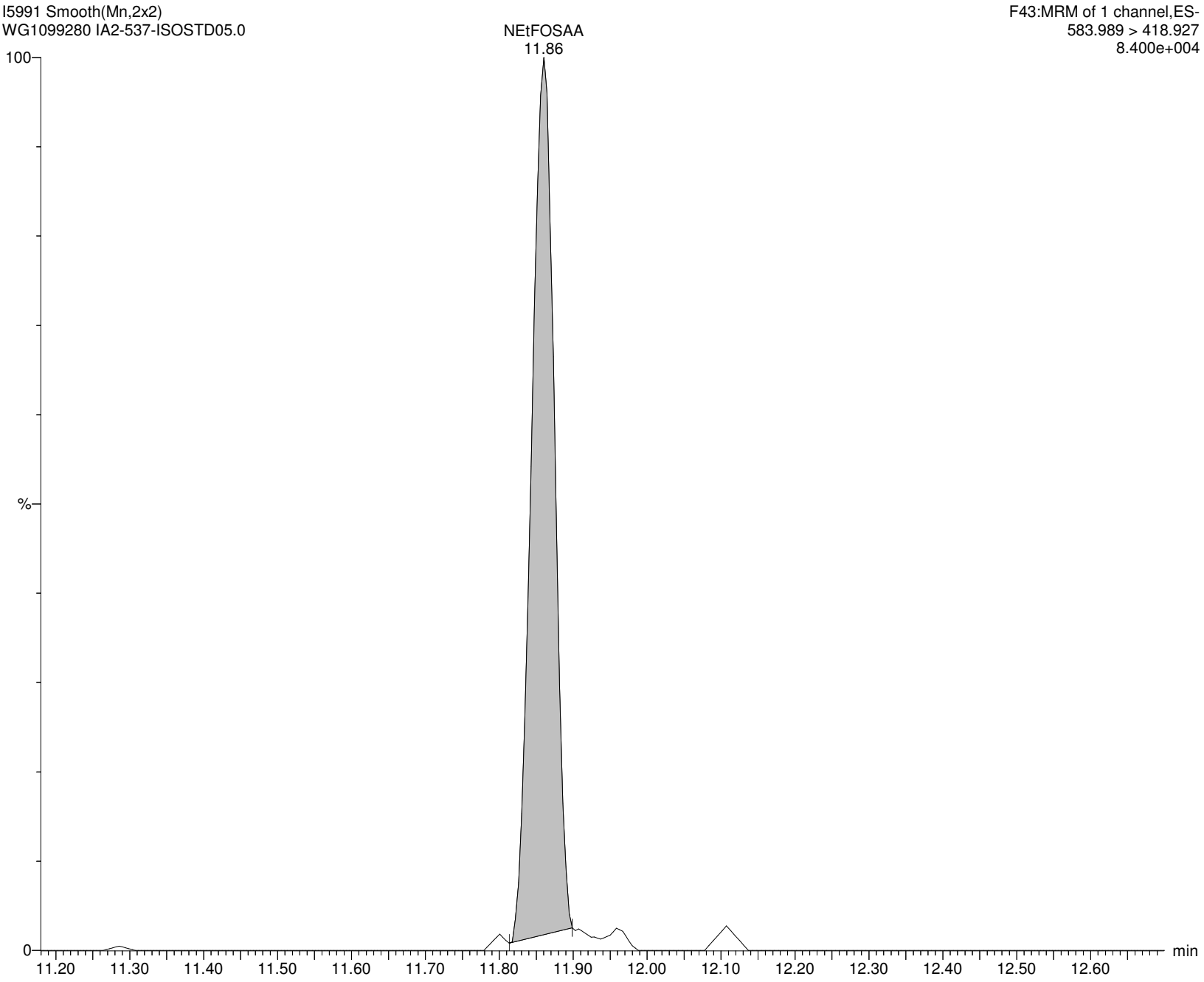

all concentration units in (ng/mL)

Alpha Analytical Inc.
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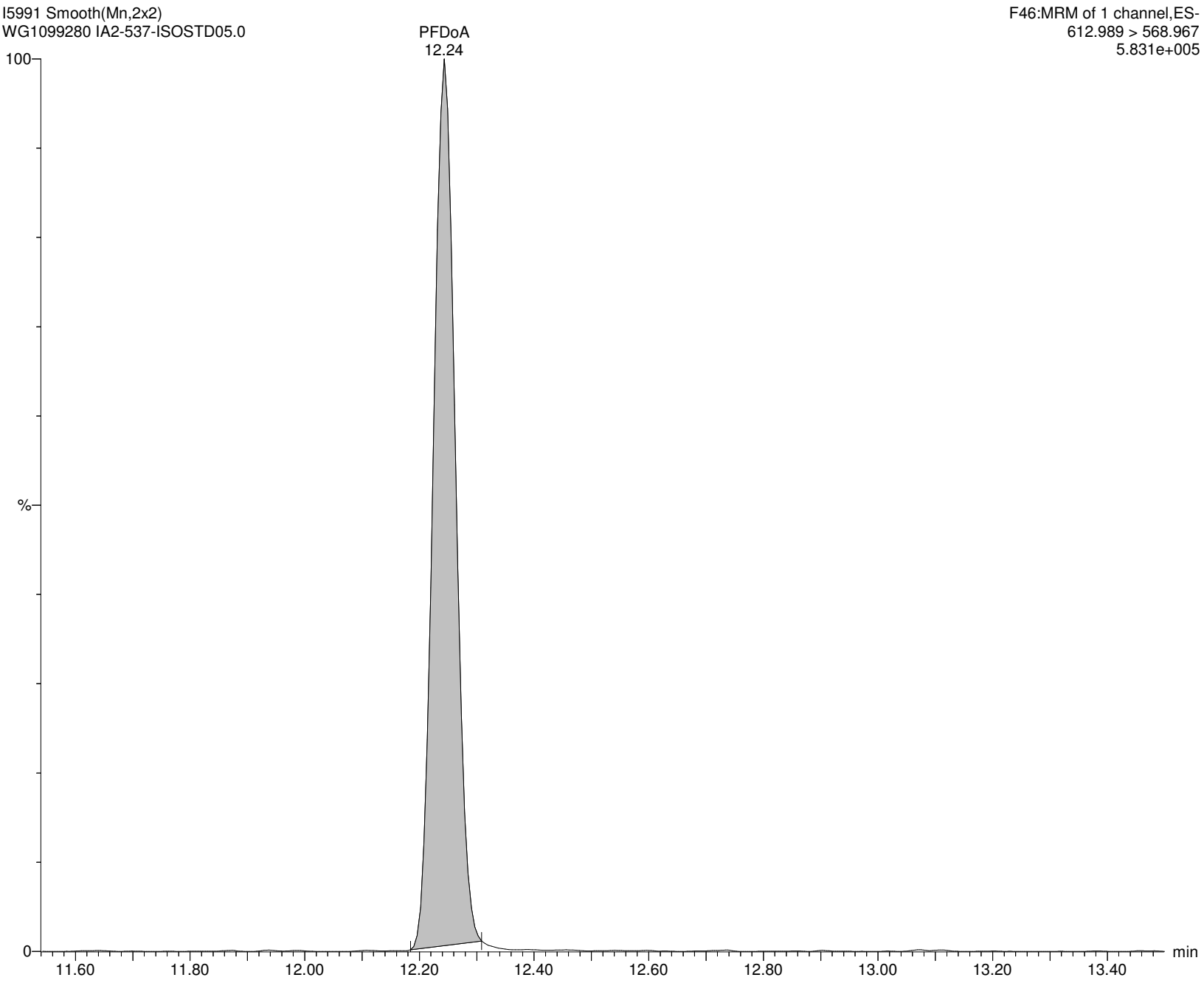

all concentration units in (ng/mL)

Alpha Analytical Inc.
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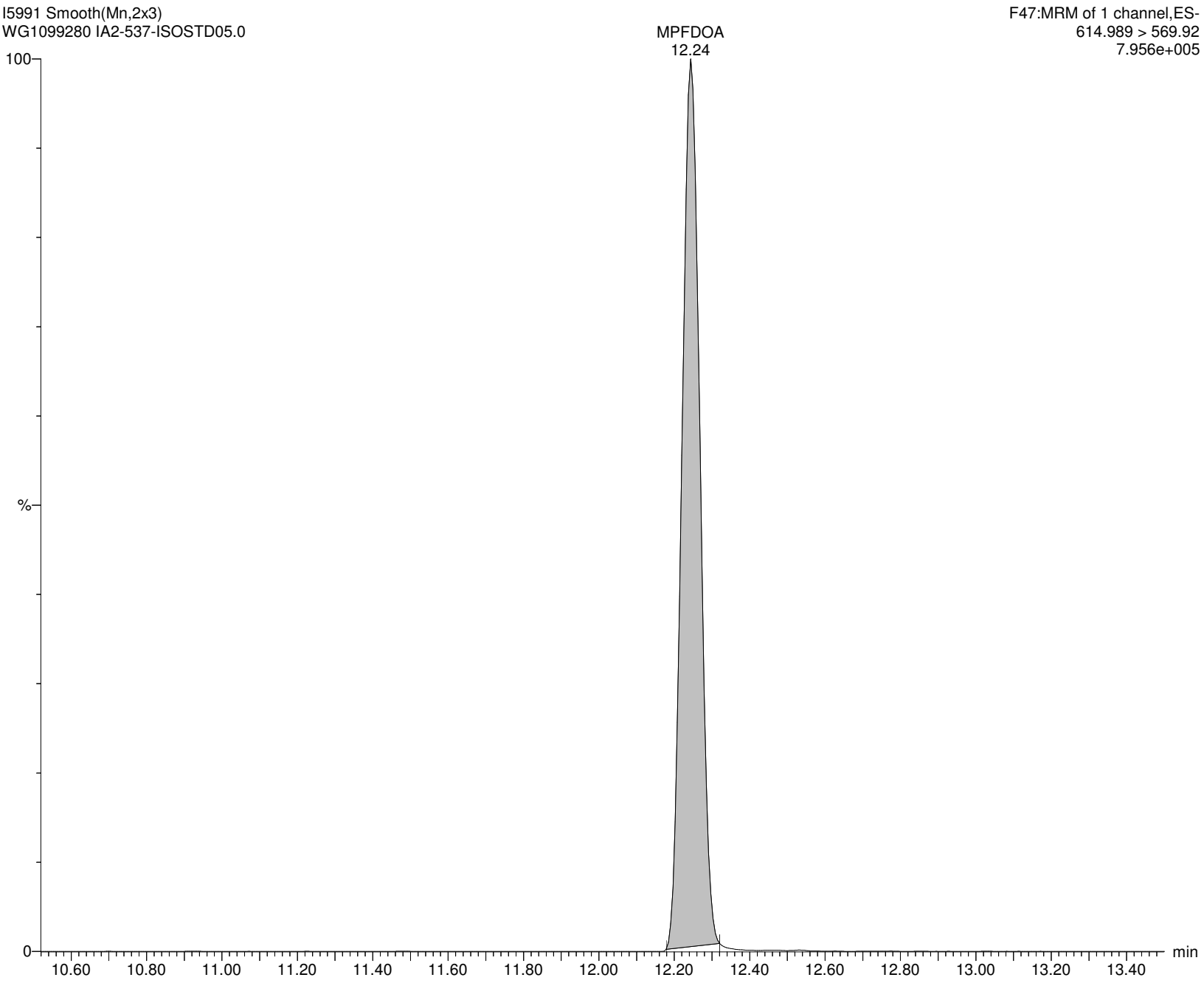

all concentration units in (ng/mL)

Alpha Analytical Inc.
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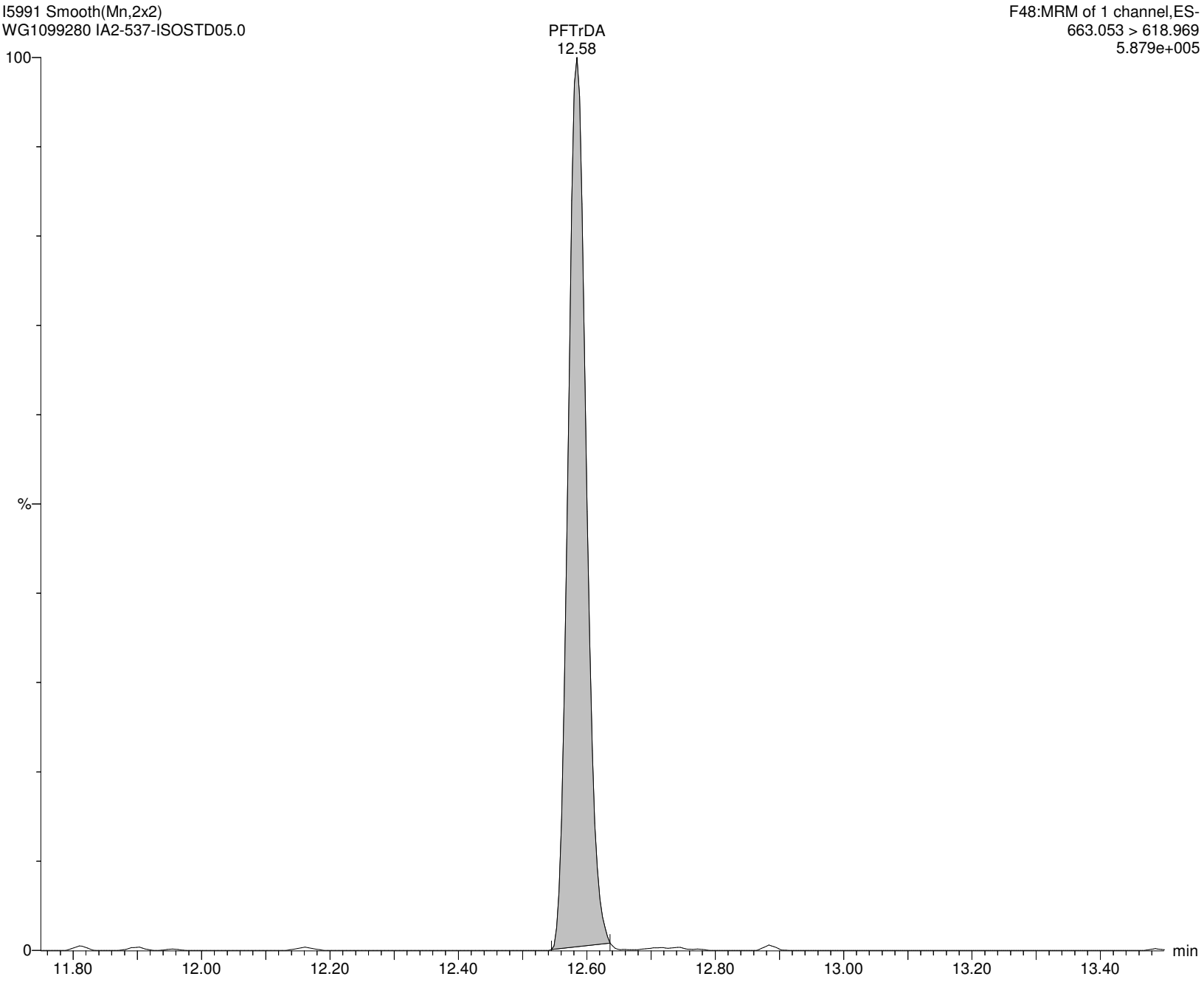

all concentration units in (ng/mL)

Alpha Analytical Inc.
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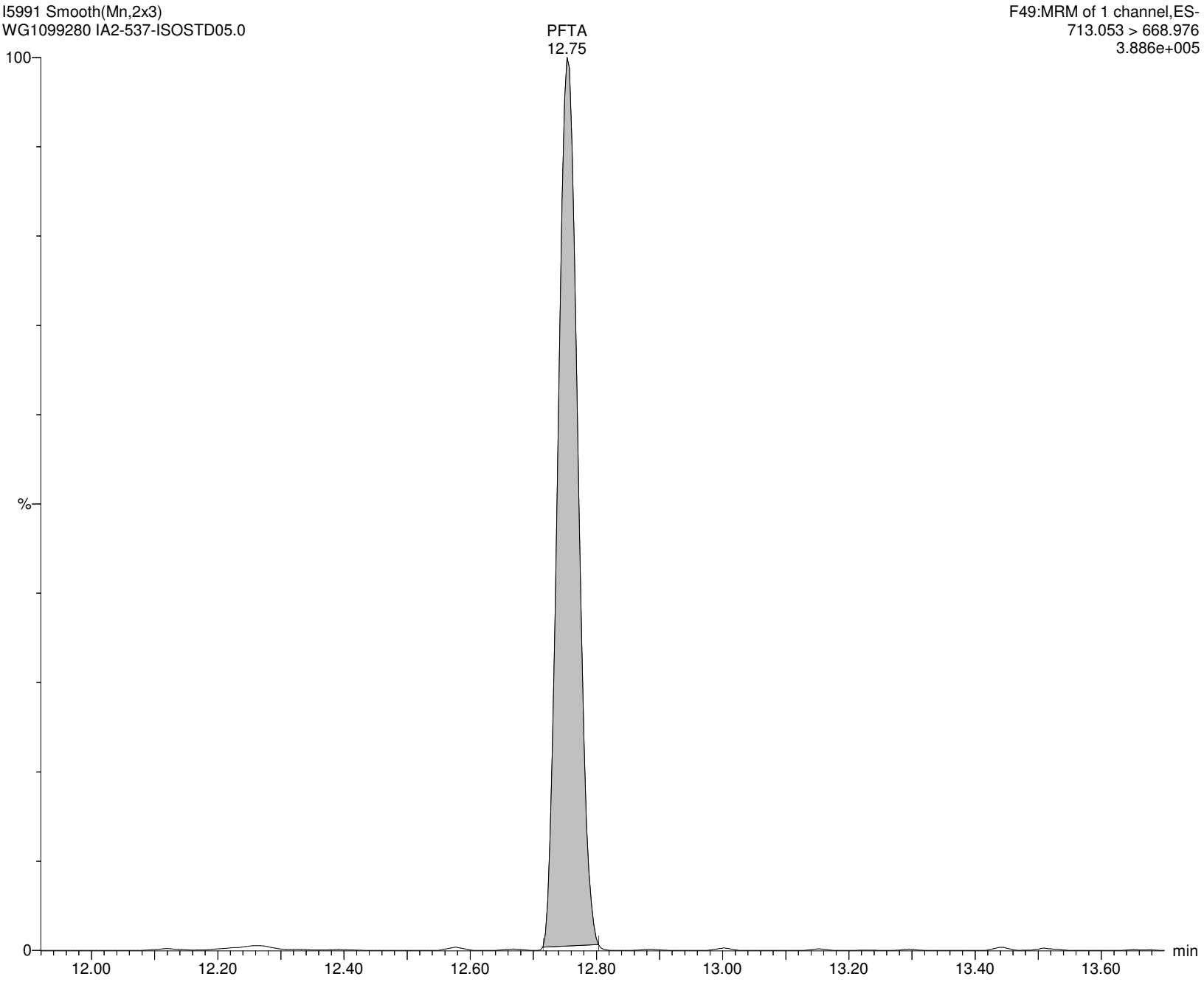

all concentration units in (ng/mL)

Alpha Analytical Inc.
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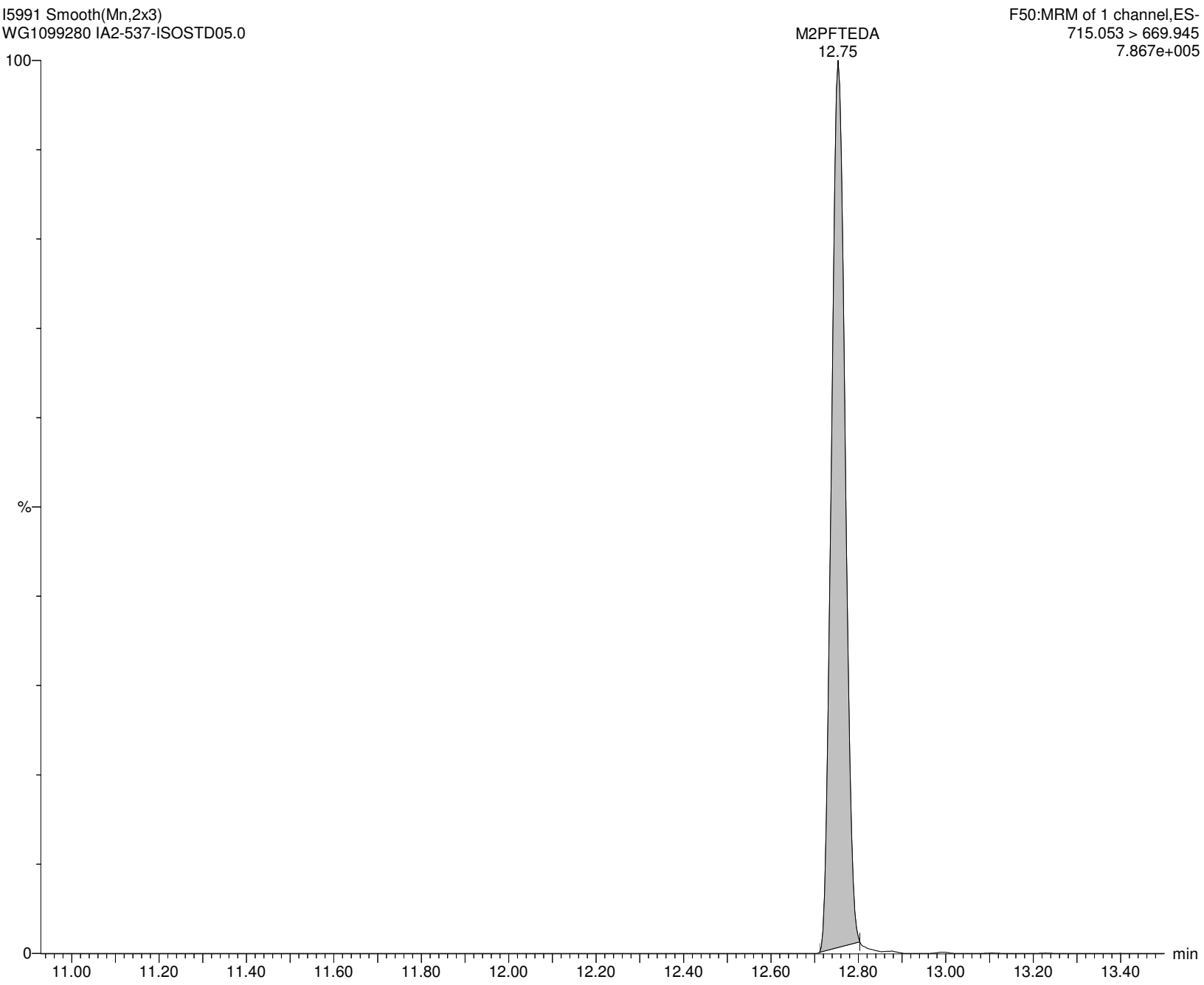

all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: IA2-537-ISOSTD05.0
Date: 21-Mar-2018
Time: 16:41:51
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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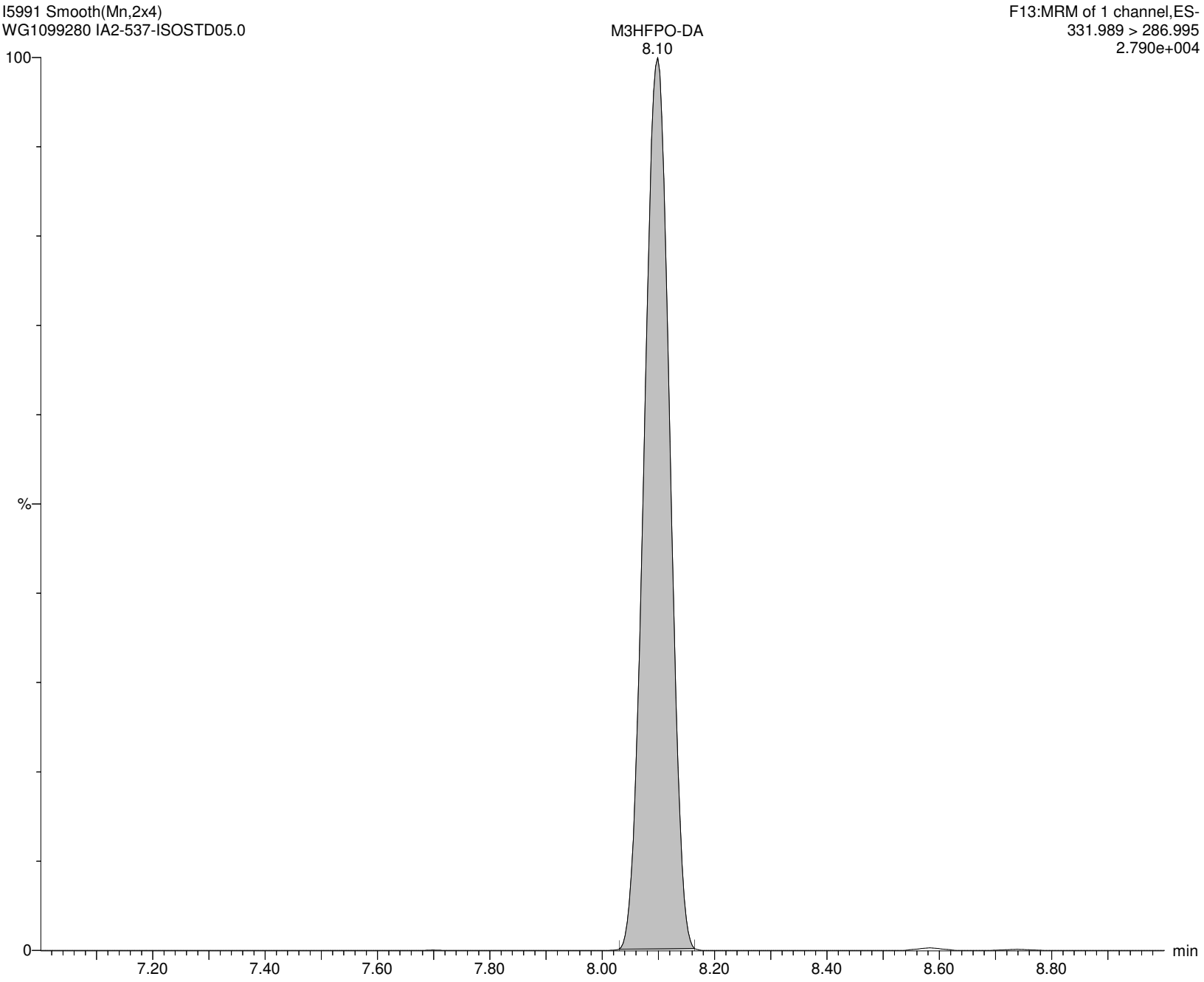

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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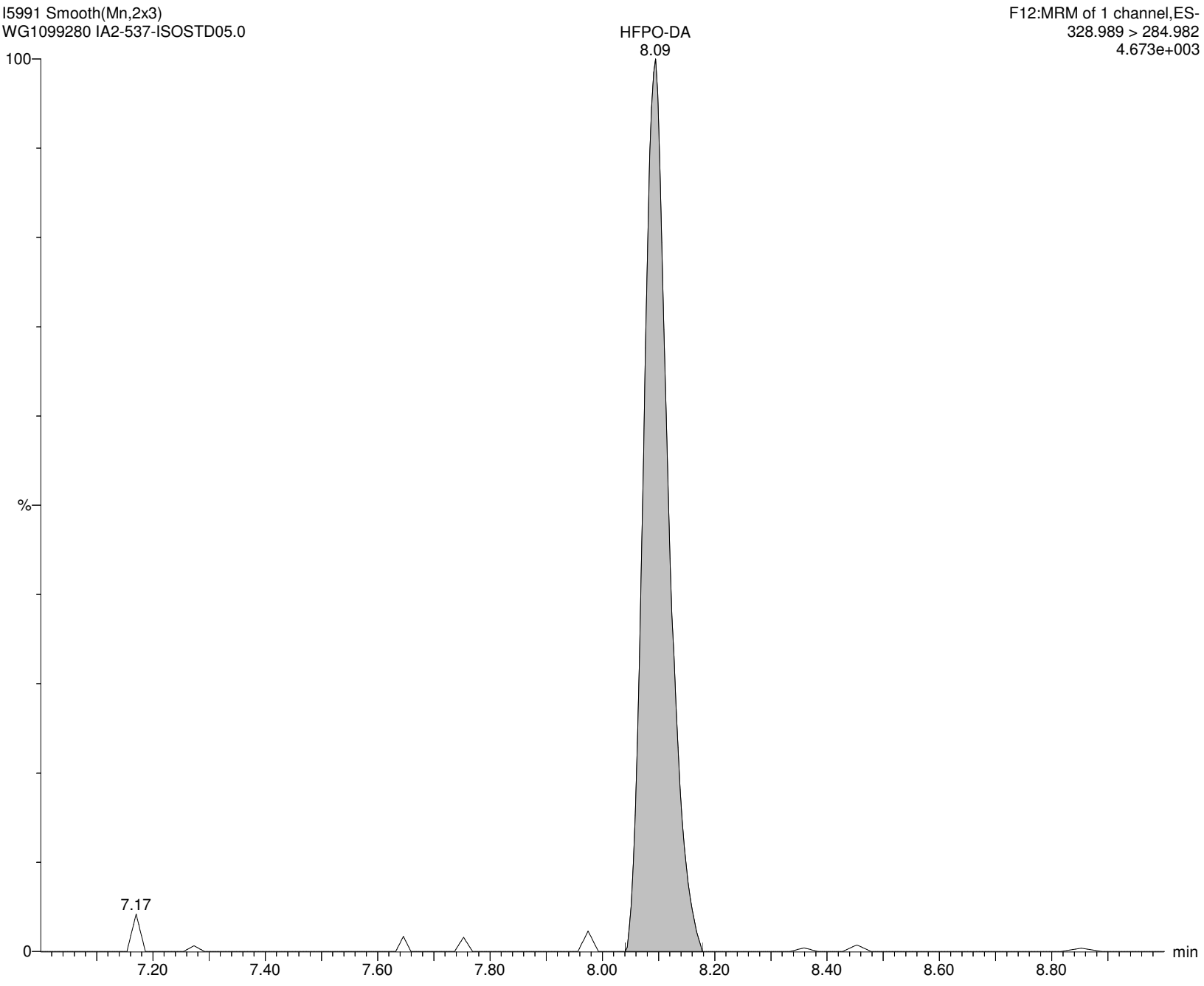

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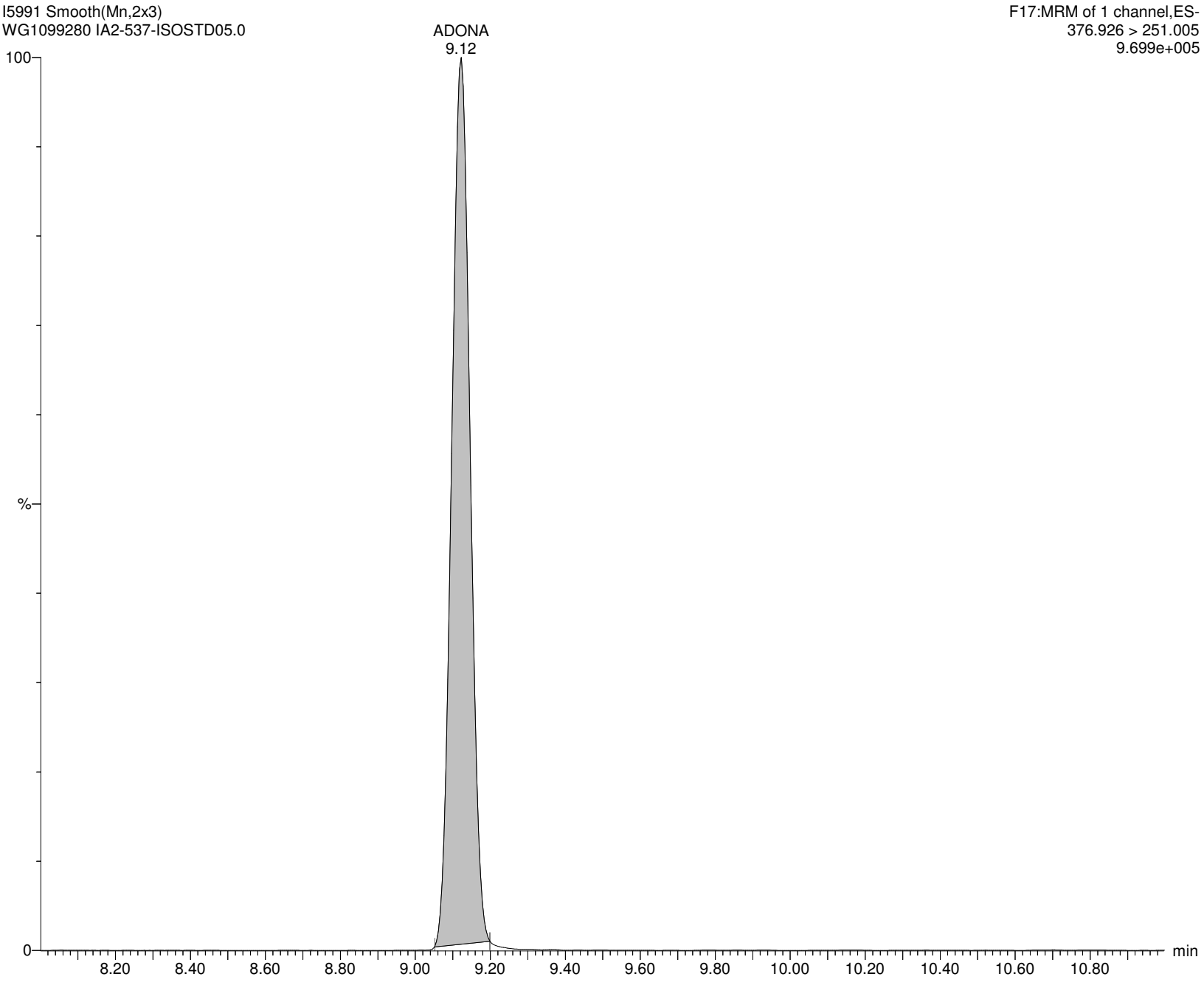

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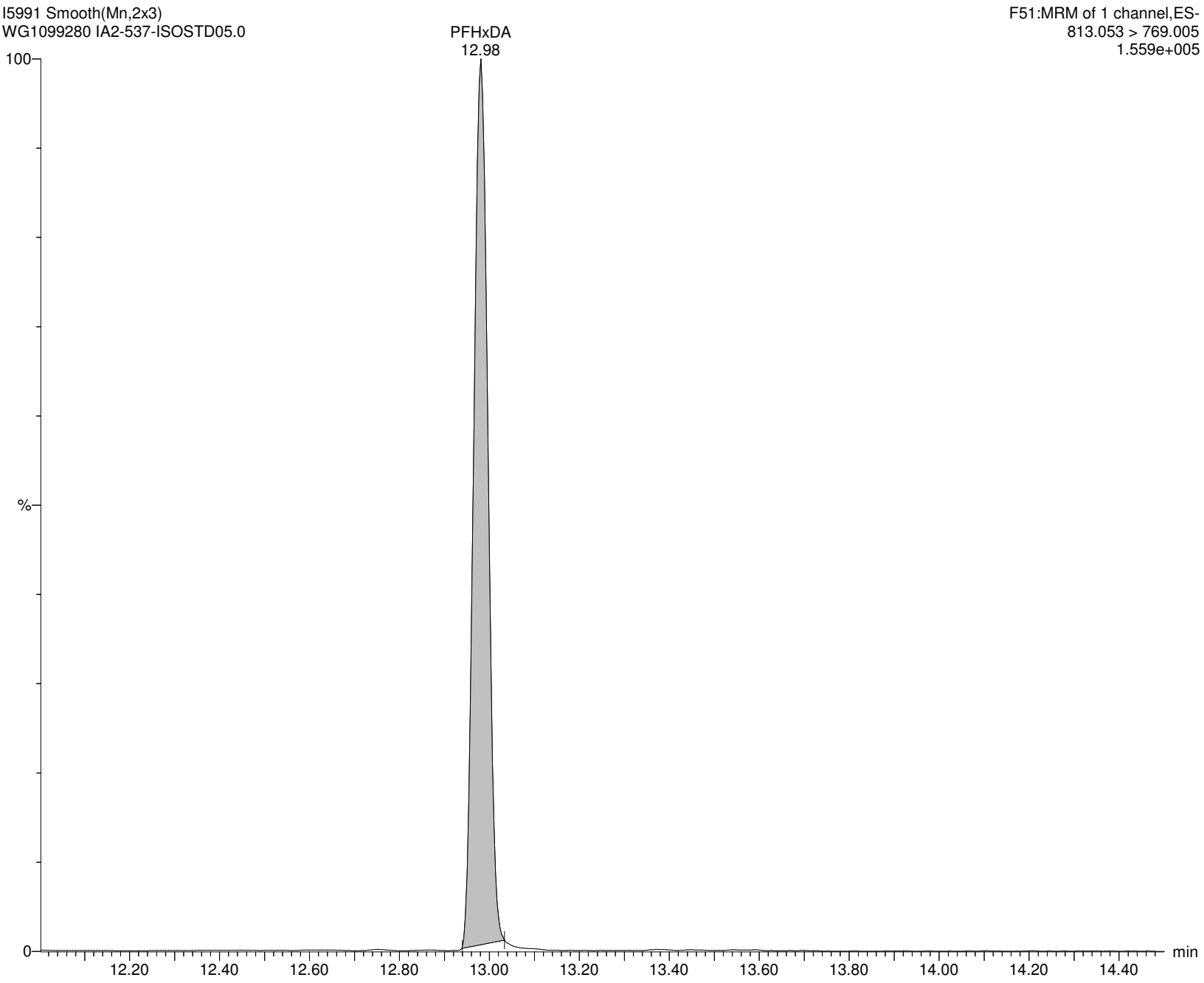

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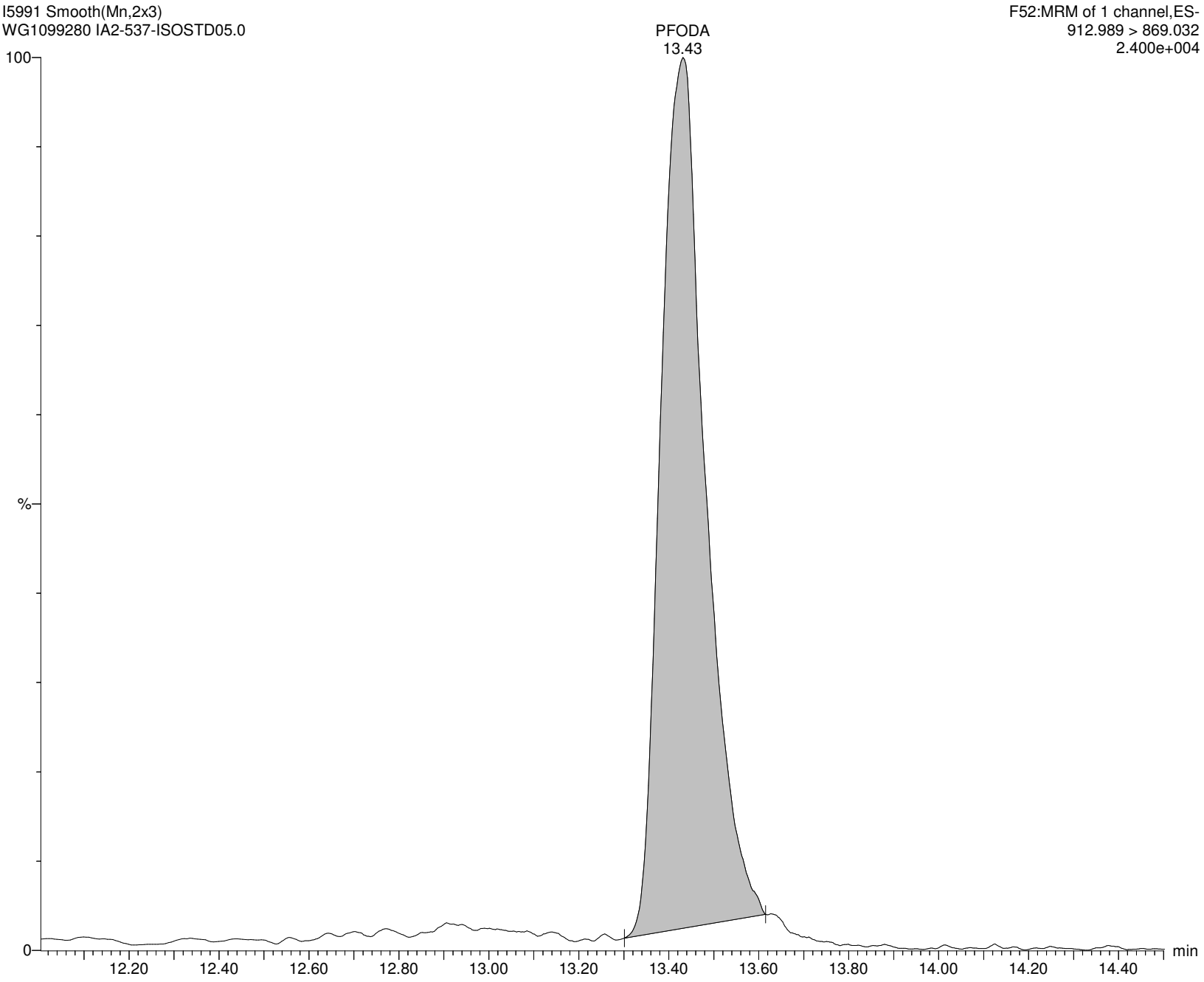

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ID: IA2-537-ISOSTD010
Name: I5992
Date: 21-Mar-2018
Time: 16:58:29
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.27	212.926 > 169.111	39191		9.512		na	95.1
2	M3PFBA	INT STD	2.26	215.926 > 172.122	50313		10.081		na	100.8
3	MPFBA	INT STD	2.26	216.926 > 172.137	55976		9.956		na	99.6
4	PFPeA	2706-90-3	5.66	262.926 > 219.002	44280		9.627		na	96.3
5	M5PFPEA	INT STD	5.66	TIC	58501		10.095		na	100.9
6	PFBS	375-73-5	6.40	298.989 > 80.295	8202		8.328		na	94.1
7	M3PFBS	INT STD	6.40	301.989 > 80.254	10015		9.480		na	94.8
8	4:2FTS	757124-72-4	7.58	326.926 > 306.957	3831		8.752		na	93.6
9	M2-4:2FTS	INT STD	7.59	328.989 > 80.973	1313		9.629		na	96.3
10	PFHxA	307-24-4	7.66	312.989 > 269.028	52098		9.410		na	94.1
11	M5PFHxA	INT STD	7.66	317.989 > 273.045	61247		9.893		na	98.9
12	PFPeS	2706-91-4	7.99	348.926 > 80.251	7851		8.537		na	90.8
13	PFHpA	375-85-9	8.94	362.926 > 319.014	58755		9.078		na	90.8
14	M4PFHpA	INT STD	8.94	366.926 > 321.979	70402		10.012		na	100.1
15	br-PFHxS	355-46-4	8.87	398.926 > 80.295	1432		1.558		na	82.0
16	L-PFHxS	355-46-4	9.10	398.926 > 80.295	6481		7.216		na	89.1
17	PFHxS	355-46-4		398.926 > 80.295	7912		8.774		na	
18	M3PFHxS	INT STD	9.10	401.926 > 80.317	9515		9.790		na	97.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.87	412.989 > 368.9	60678		9.360		na	93.6
21	M2PFOA	INT STD	9.87	415.032 > 369.968	64321		10.394		na	103.9
22	PFOA	335-67-1		412.989 > 368.9	60678		9.360		na	
23	M8PFOA	INT STD	9.87	420.989 > 375.979	62540		10.011		na	100.1
24	6:2FTS	27619-97-2	9.83	426.989 > 406.921	3562		8.510		na	89.6
25	M2-6:2FTS	INT STD	9.83	428.989 > 408.917	4345		8.446		na	84.5
26	PFHpS	375-92-8	9.96	448.926 > 80.257	4605		8.773		na	92.3
27	PFNA	375-95-1	10.60	462.989 > 418.931	45115		9.376		na	93.8
28	M9PFNA	INT STD	10.60	472.053 > 426.947	57737		9.835		na	98.3
29	br-PFOS	1763-23-1	10.46	498.989 > 80.294	1490		1.417		na	70.9
30	L-PFOS	1763-23-1	10.65	498.989 > 80.294	5397		7.265		na	92.0
31	PFOS	1763-23-1		498.989 > 80.294	6886		8.683		na	
32	M4PFOS	INT STD	10.65	503.032 > 80.306	6437		10.616		na	106.2
33	M8PFOS	INT STD	10.65	507.053 > 80.294	7586		9.652		na	96.5
34	PFDA	335-76-2	11.22	513.053 > 468.906	44005		9.225		na	92.2
35	M2PFDA	INT STD	11.22	515.053 > 469.934	45580		10.872		na	108.7
36	M6PFDA	INT STD	11.22	519.053 > 473.931	56109		10.194		na	101.9
37	8:2FTS	39108-34-4	11.21	526.989 > 506.946	2772		9.693		na	101.0
38	M2-8:2FTS	INT STD	11.21	529.117 > 80.953	841		10.582		na	105.8
39	PFNS	68259-12-1	11.25	548.989 > 80.249	4994		7.610		na	79.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:51 Eastern Daylight Time

ID: IA2-537-ISOSTD010
Name: I5992
Date: 21-Mar-2018
Time: 16:58:29
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.56	573.096 > 418.987	6940		9.862		na	98.6
41	NMeFOSAA	2355-31-9	11.56	570.053 > 418.917	6668		9.146		na	91.5
42	PFUnA	2058-94-8	11.77	562.989 > 518.903	42080		9.408		na	94.1
43	M7-PFUDA	INT STD	11.76	570.053 > 524.923	43455		9.650		na	96.5
44	PFDS	335-77-3	11.78	598.926 > 80.314	5861		8.149		na	84.4
45	FOSA	754-91-6	11.69	497.989 > 78.245	17604		9.669		na	96.7
46	M8FOSA	INT STD	11.68	506.053 > 78.286	22297		9.182		na	91.8
47	d5-NEtFOSAA	INT STD	11.84	589.117 > 418.929	6620		9.929		na	99.3
48	NEtFOSAA	2991-50-6	11.85	583.989 > 418.927	4682		7.704		na	77.0
49	PFDoA	307-55-1	12.24	612.989 > 568.967	45494		10.476		na	104.8
50	MPFDOA	INT STD	12.24	614.989 > 569.92	44360		9.520		na	95.2
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	37056		9.035		na	90.3
52	PFTA	376-06-7	12.75	713.053 > 668.976	29004		9.345		na	93.5
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	36386		9.933		na	99.3
54	M3HFPO-DA	INT STD	8.09	331.989 > 286.995	1871		155.699		na	77.8
55	HFPO-DA	13252-13-6	8.09	328.989 > 284.982	537		168.205		na	84.1
56	ADONA	958445-44-8	9.12	376.926 > 251.005	86533		9.276		na	98.0
57	PFHxDA		12.98	813.053 > 769.005	10031		7.215		na	72.1
58	PFODA		13.41	912.989 > 869.032	7801		11.782		na	117.8

all concentration units in (ng/mL)

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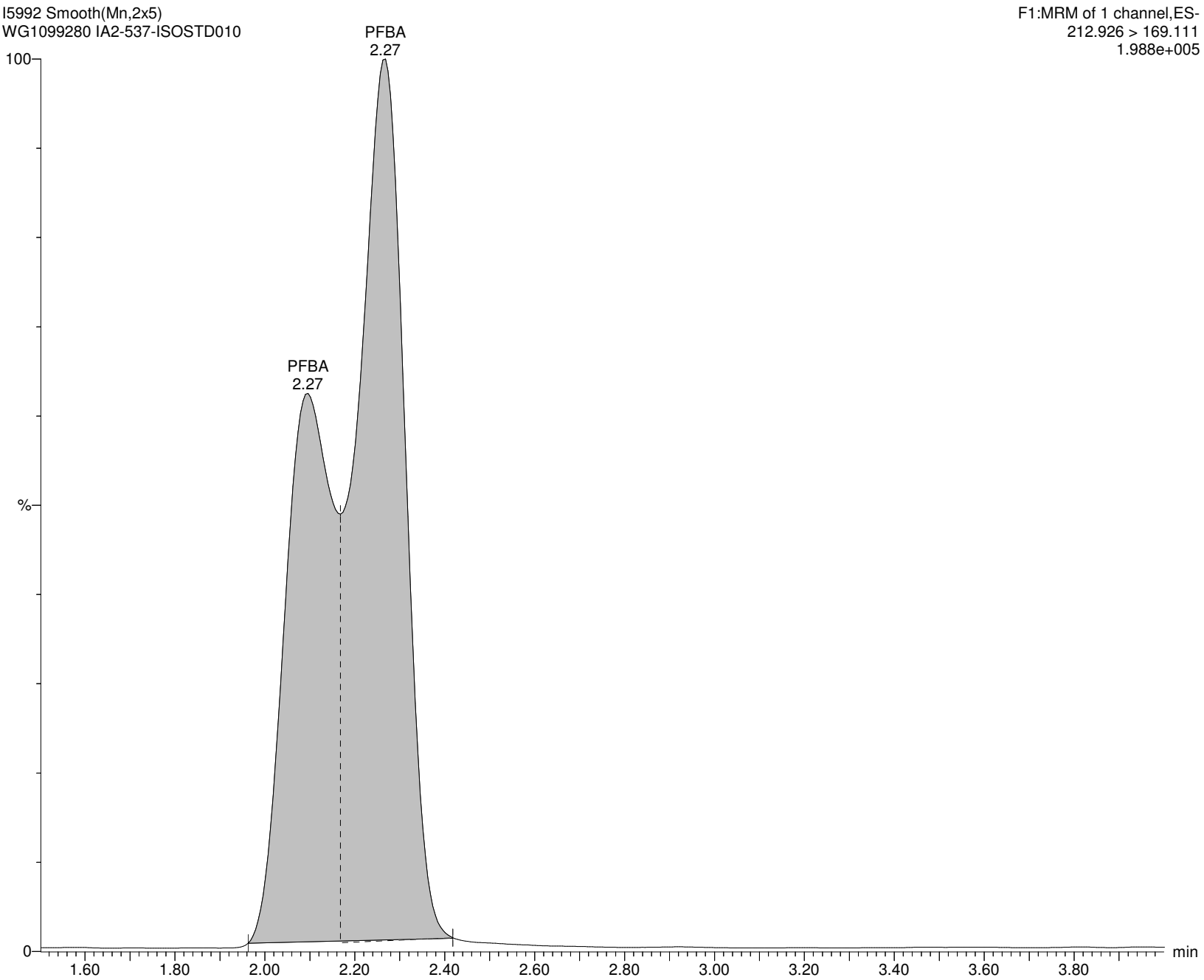

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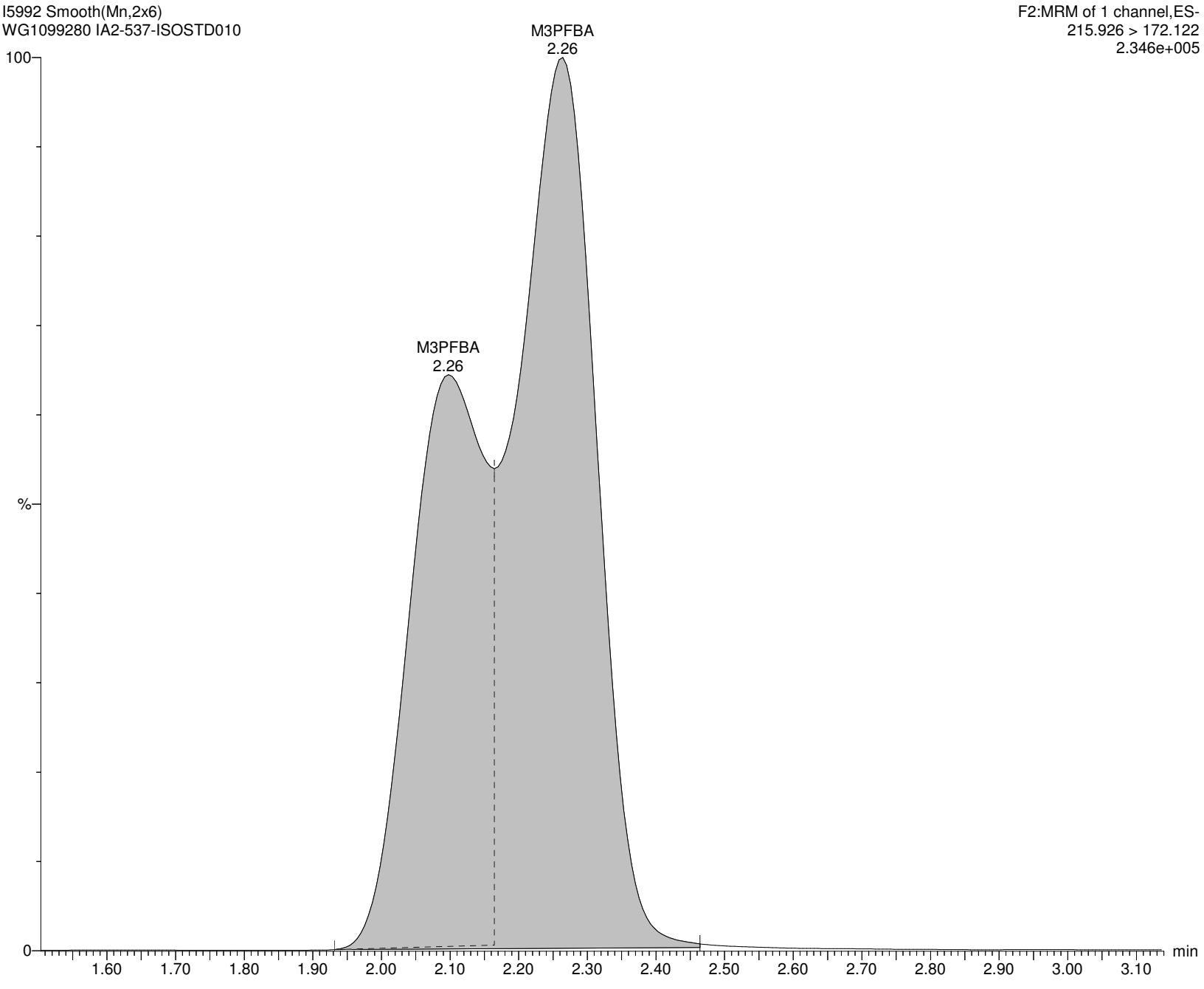

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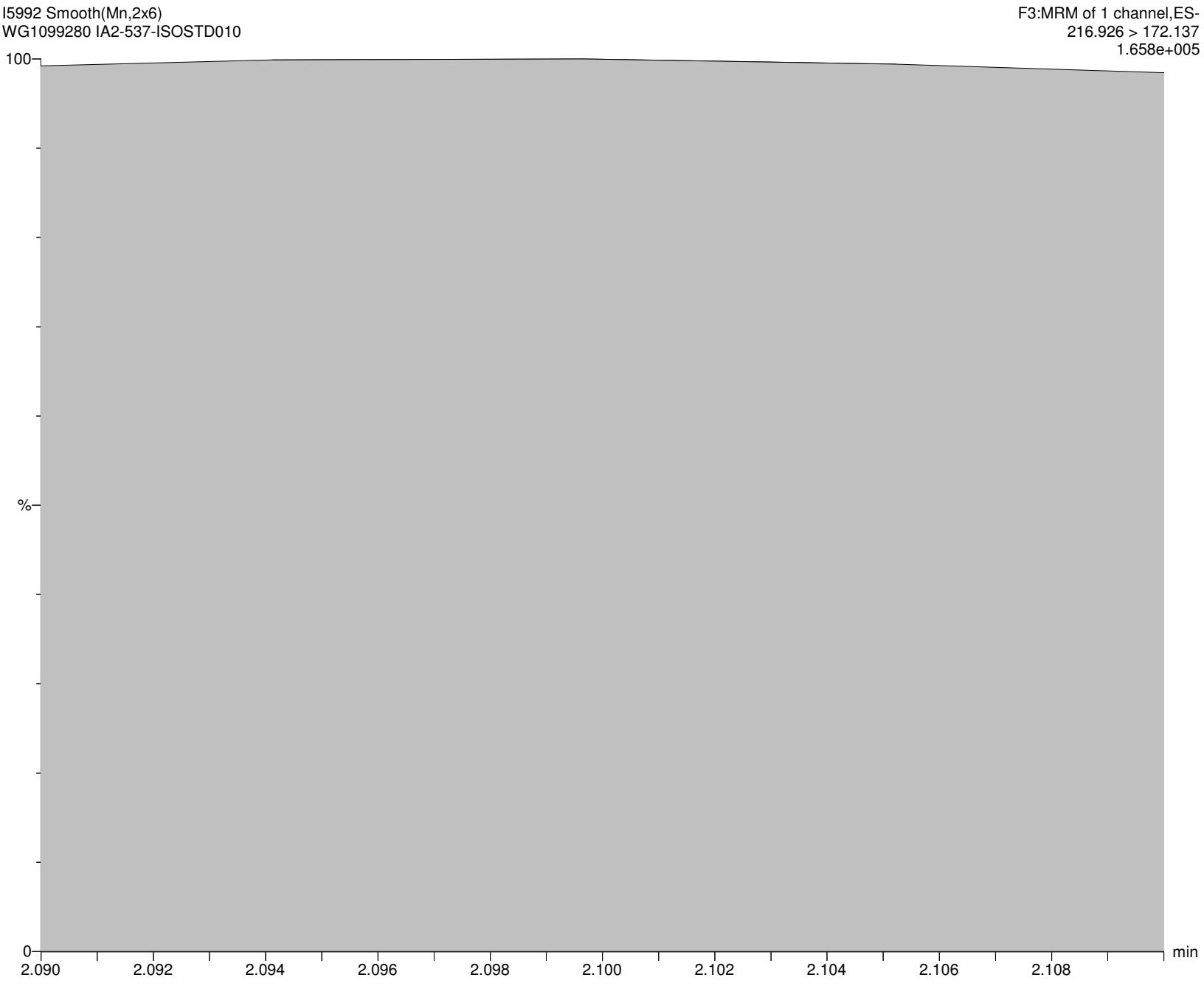

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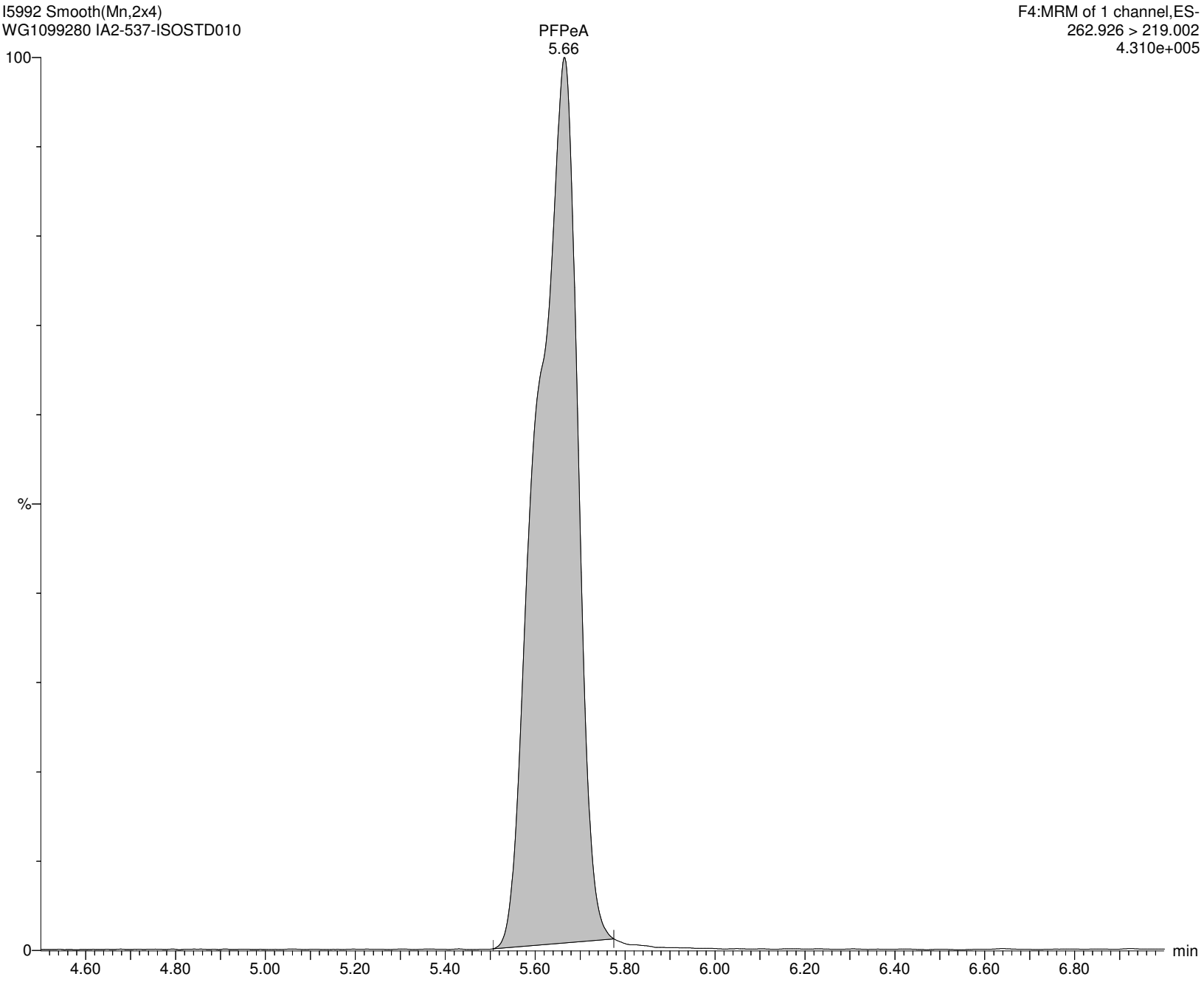

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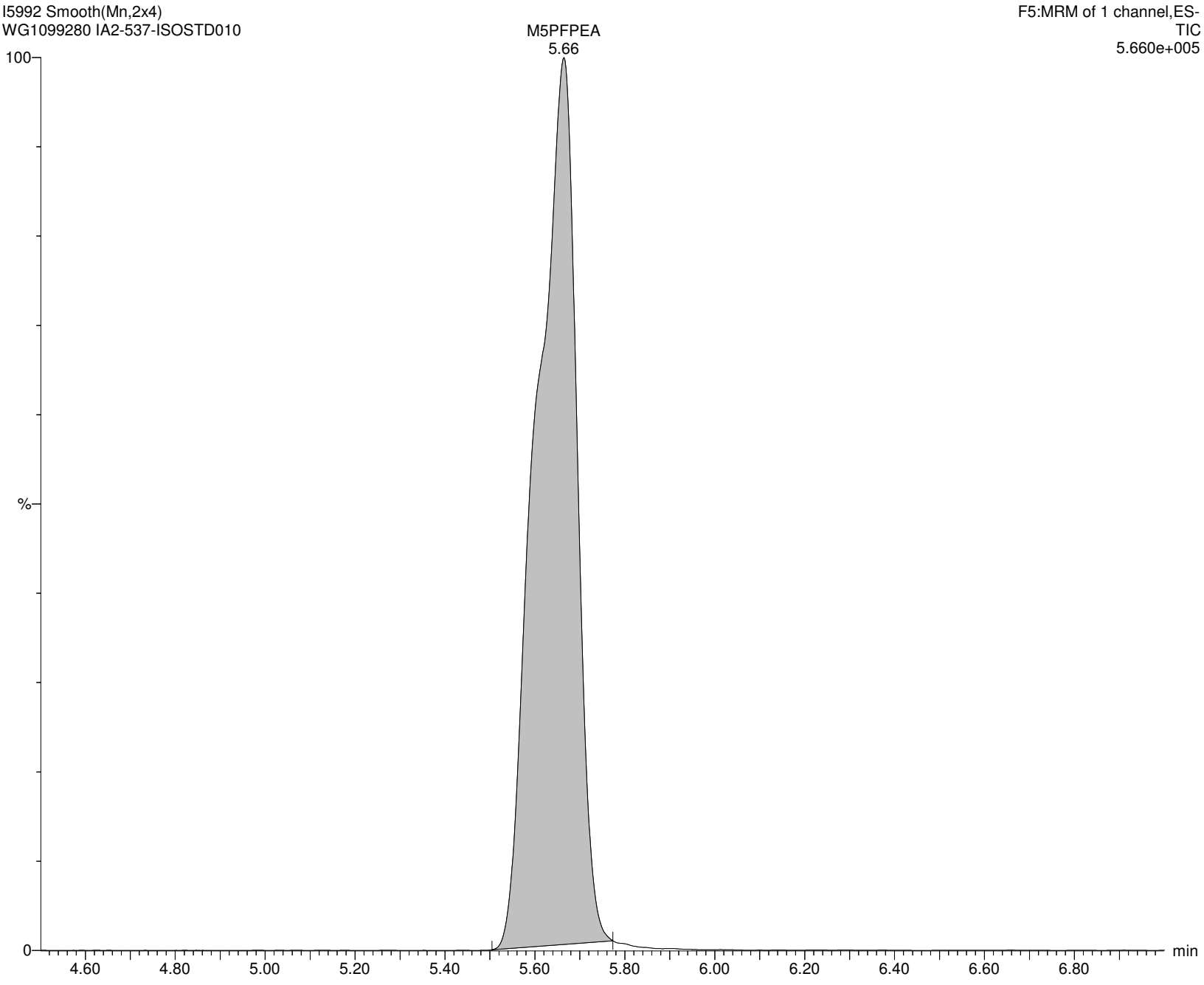

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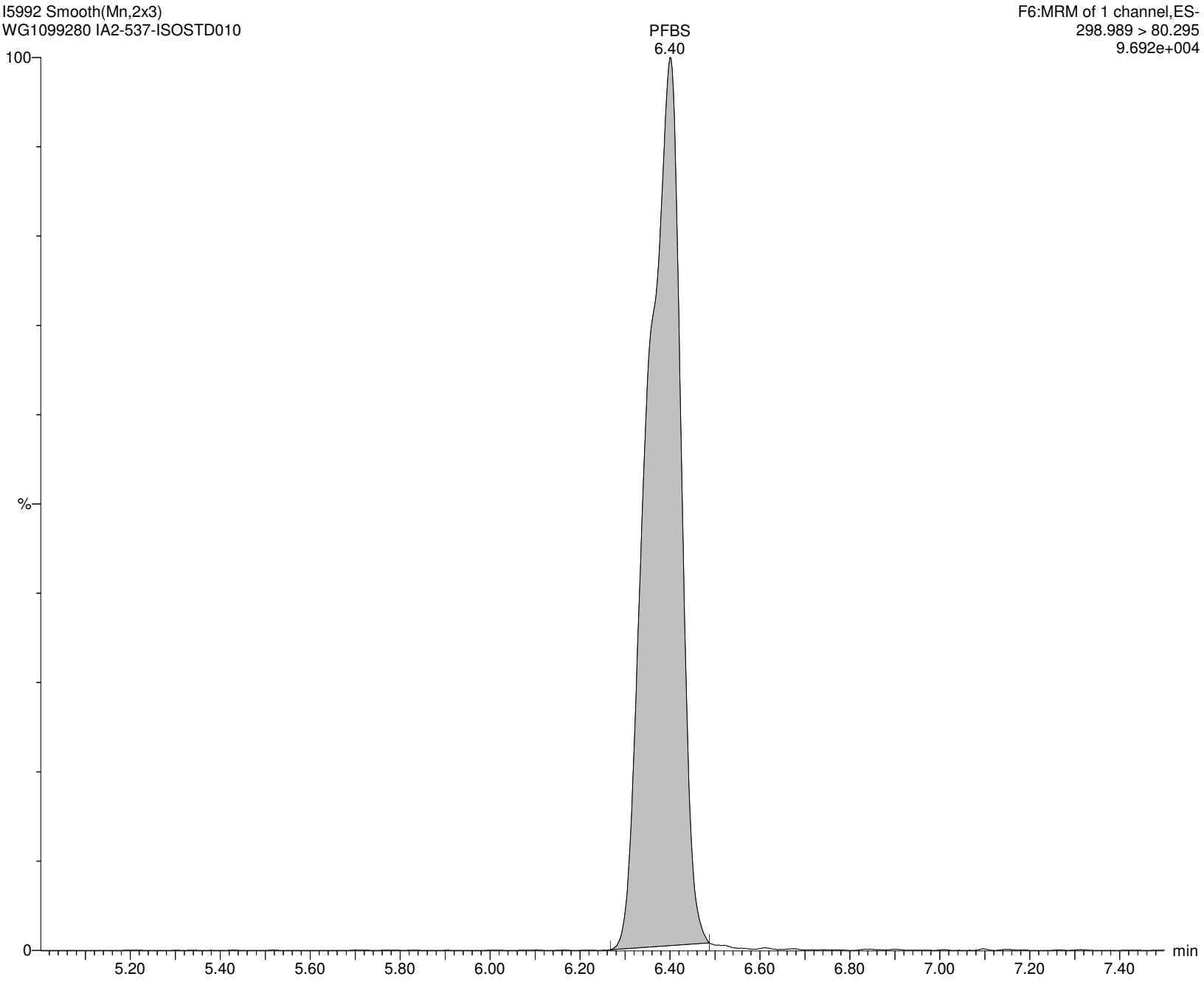

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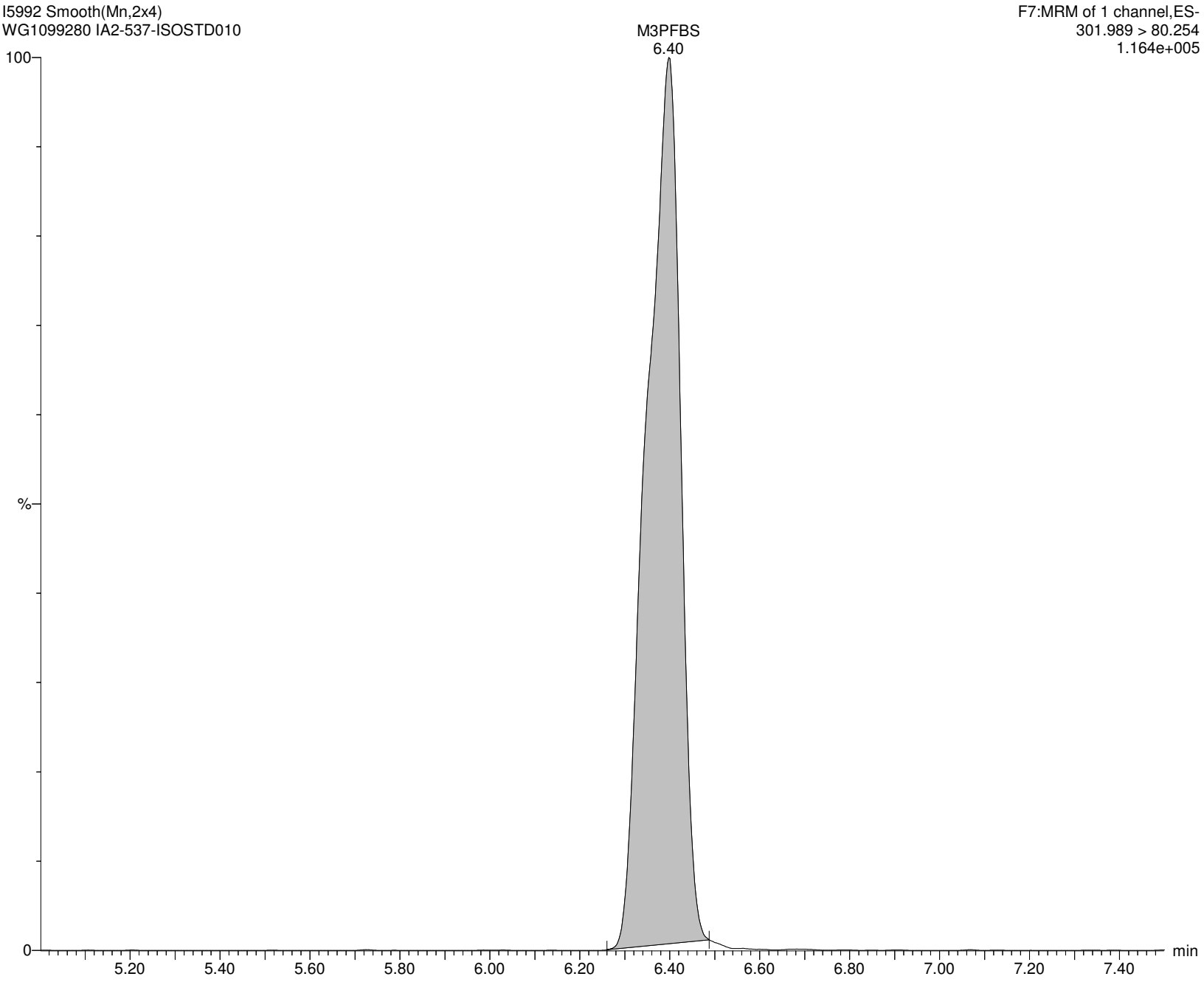
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:51 Eastern Daylight Time

Name: I5992
ID: IA2-537-ISOSTD010
Date: 21-Mar-2018
Time: 16:58:29
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
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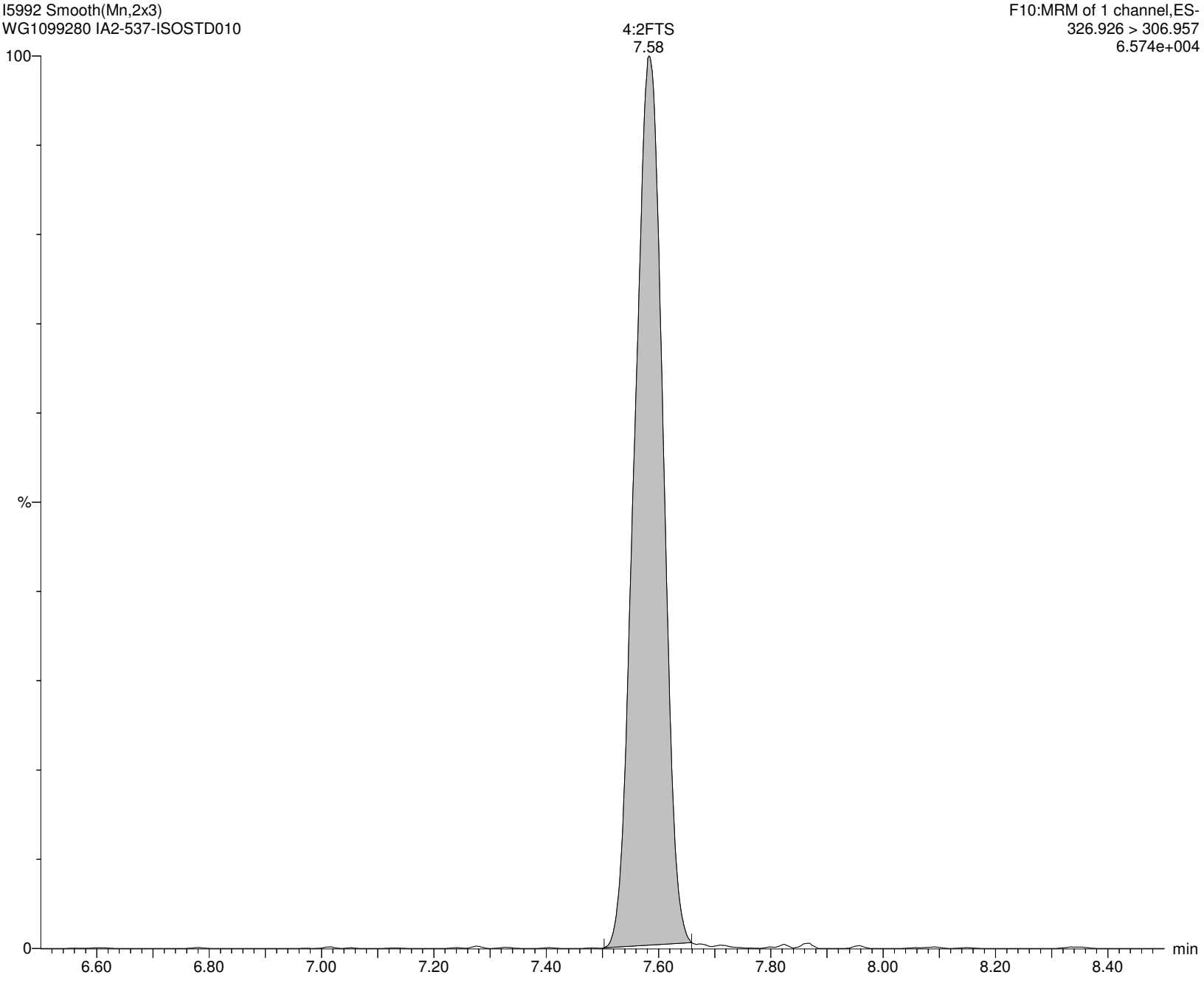

all concentration units in (ng/mL)

Alpha Analytical Inc.
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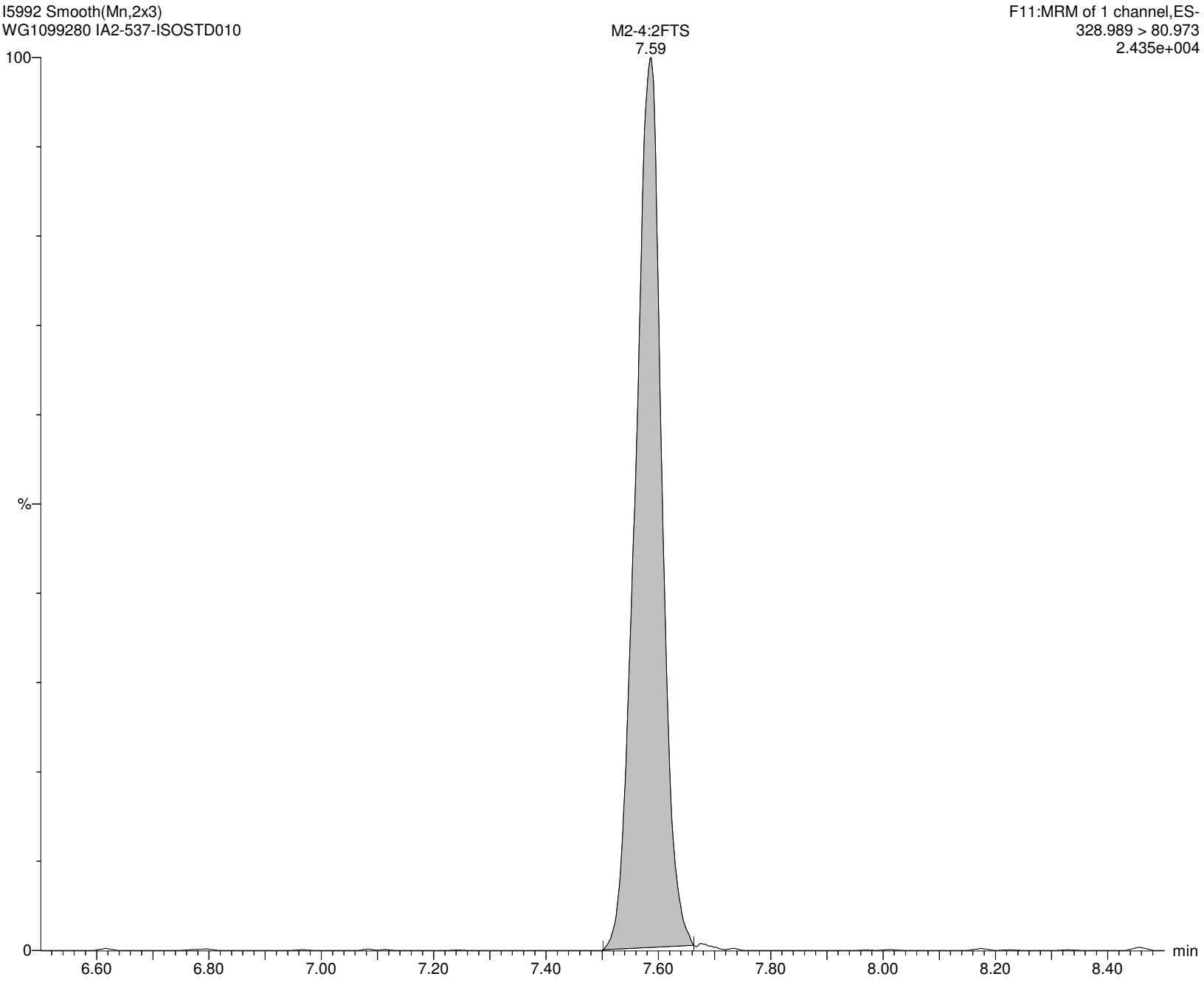

all concentration units in (ng/mL)

Alpha Analytical Inc.
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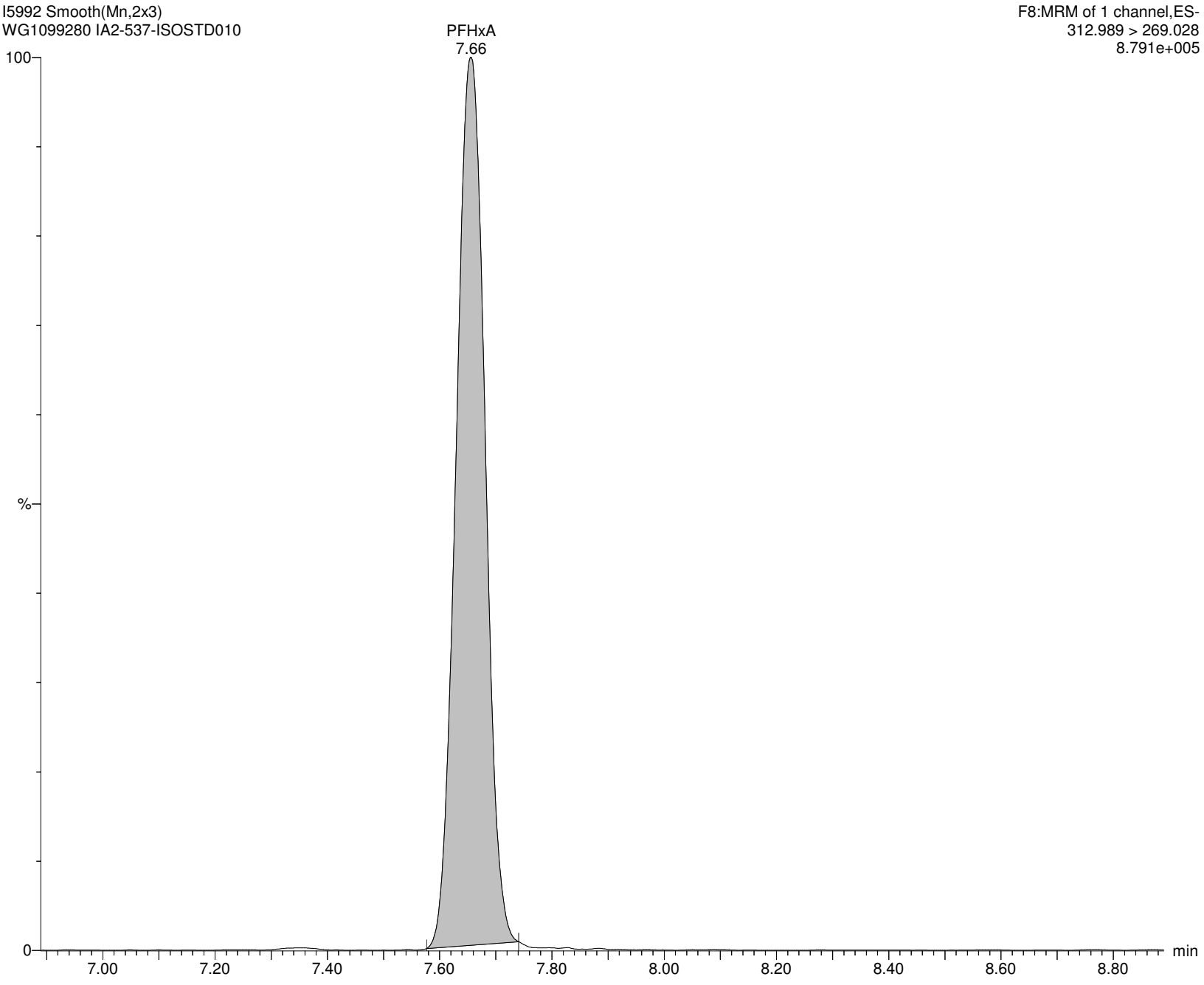

all concentration units in (ng/mL)

Alpha Analytical Inc.
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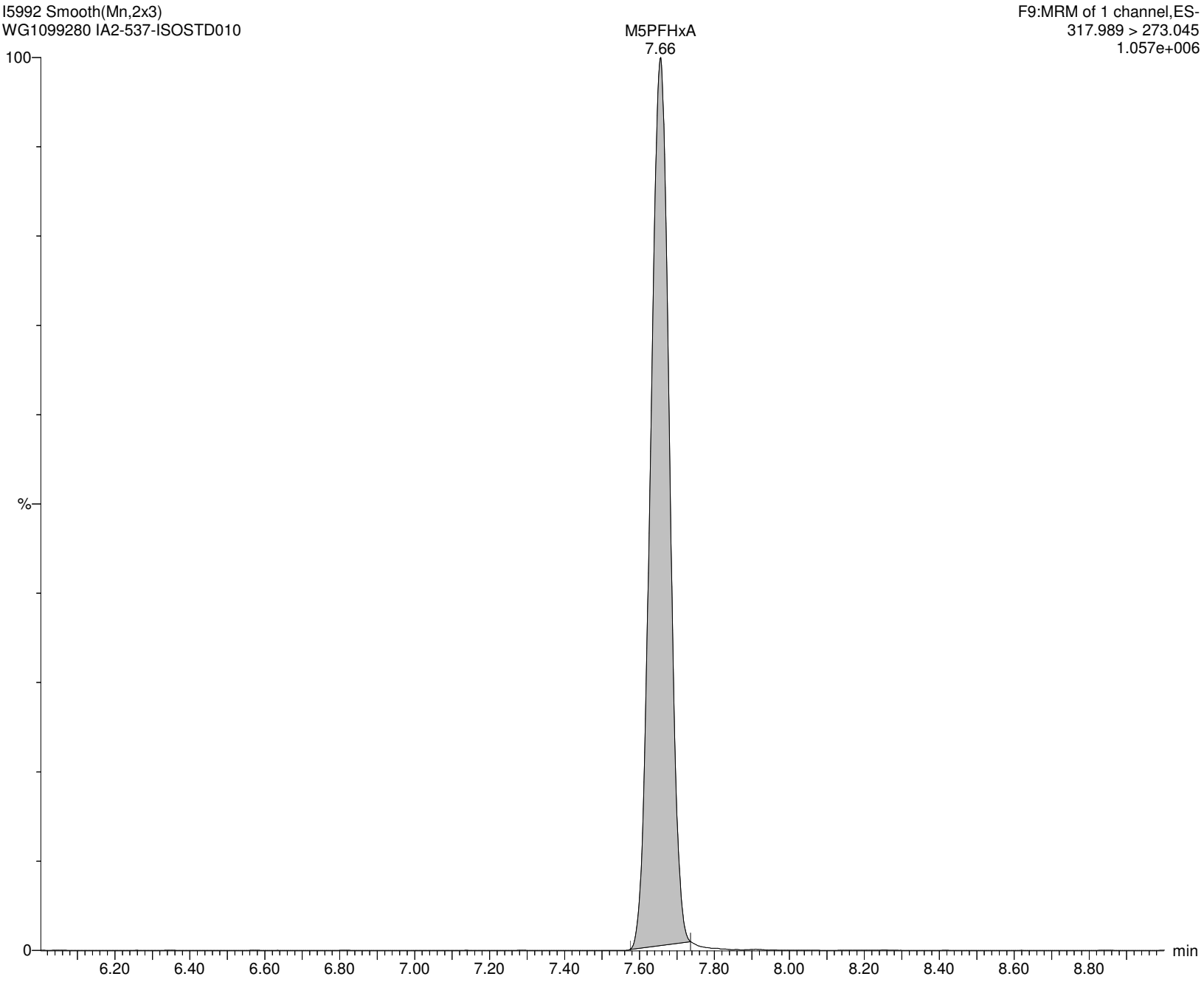

all concentration units in (ng/mL)

Alpha Analytical Inc.
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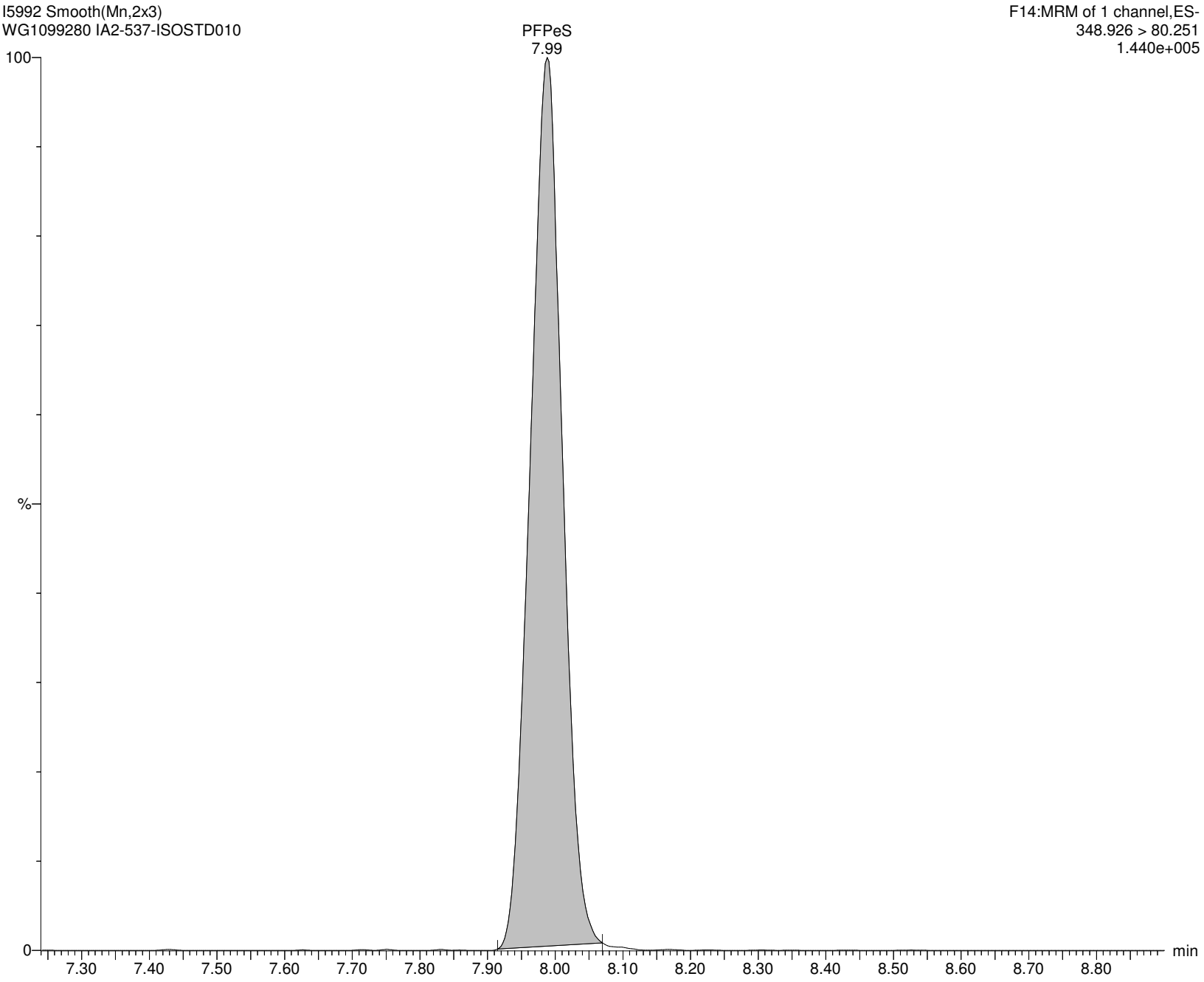

all concentration units in (ng/mL)

Alpha Analytical Inc.
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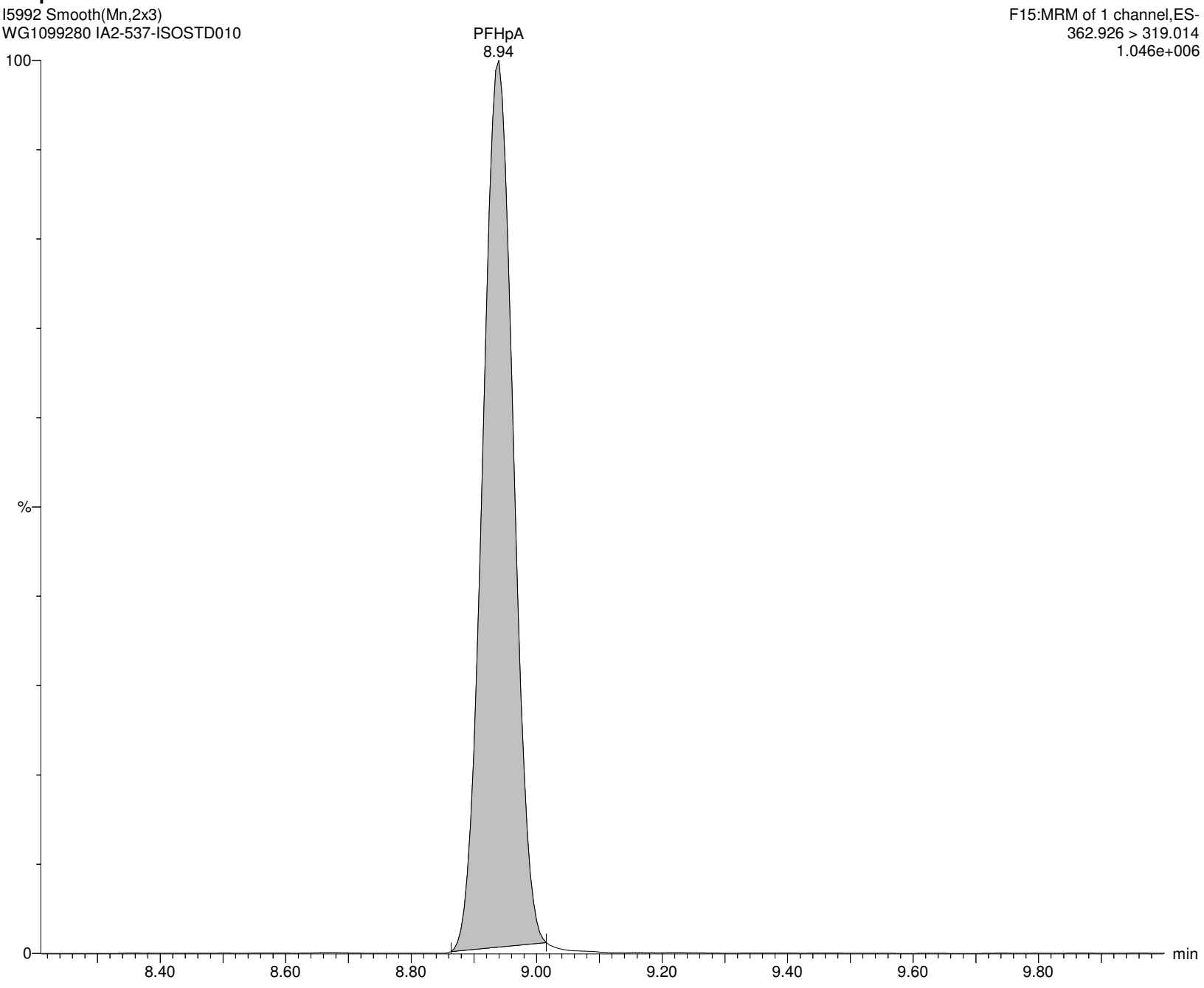

all concentration units in (ng/mL)

Alpha Analytical Inc.
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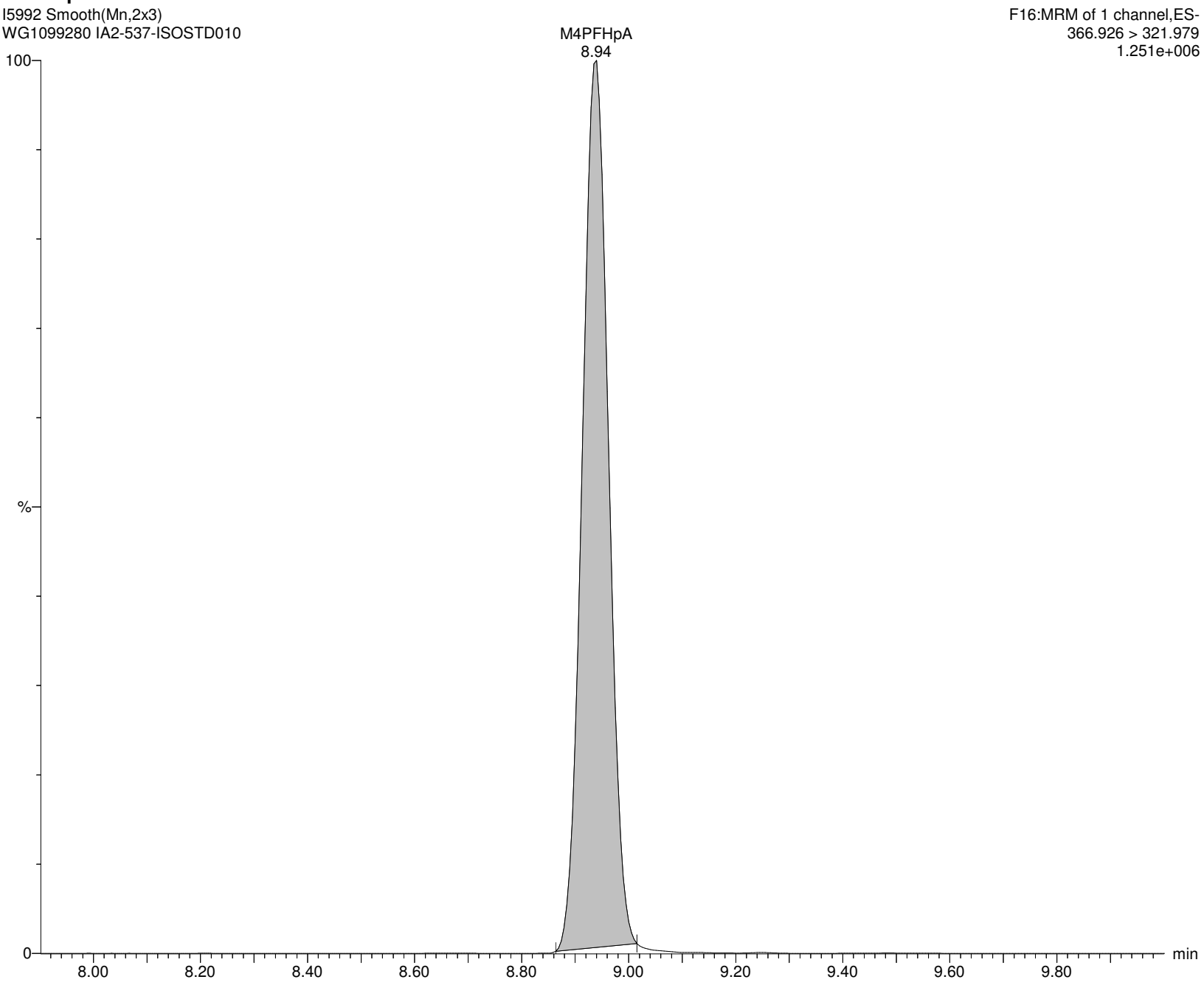

all concentration units in (ng/mL)

Alpha Analytical Inc.
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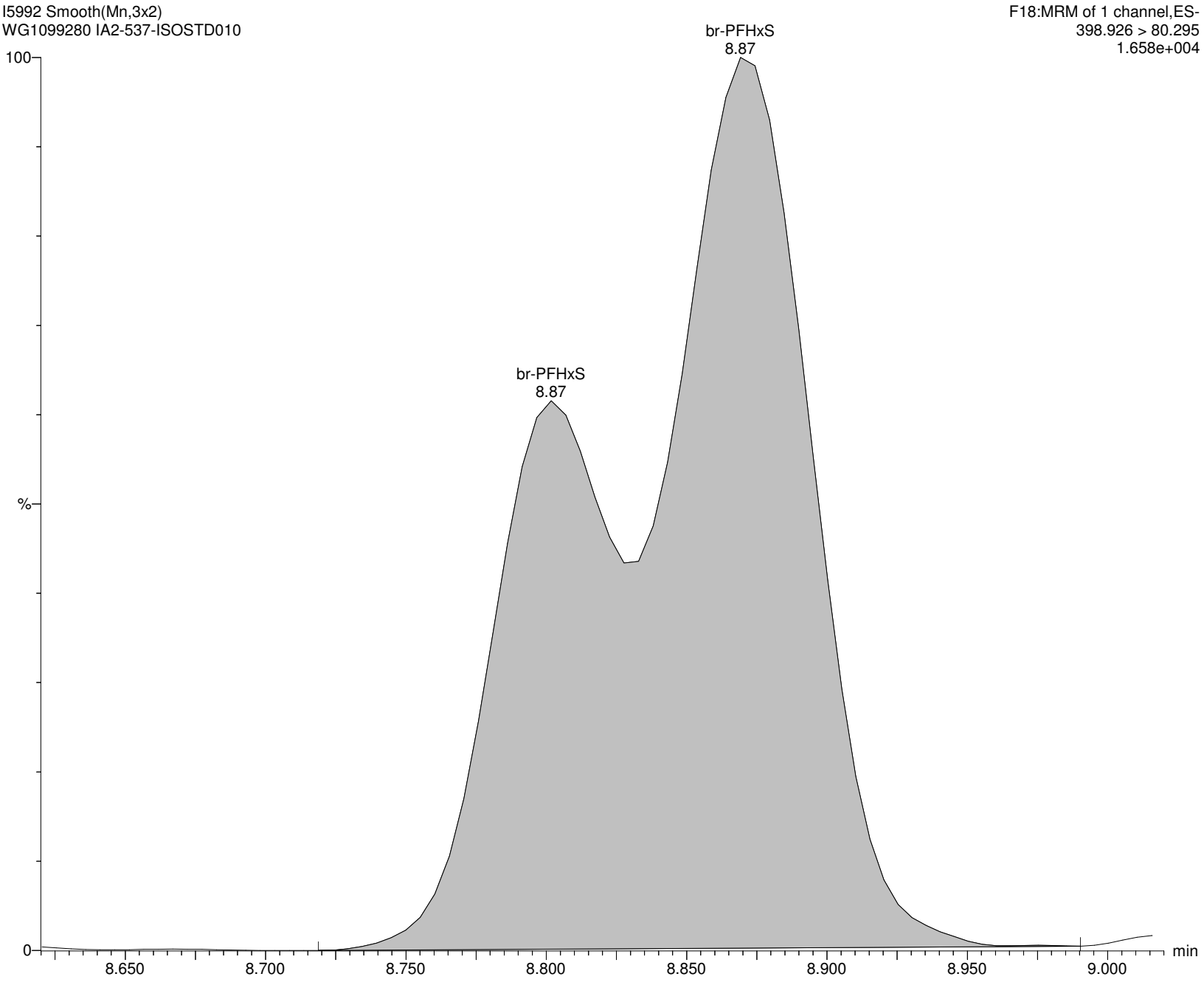

all concentration units in (ng/mL)

Alpha Analytical Inc.
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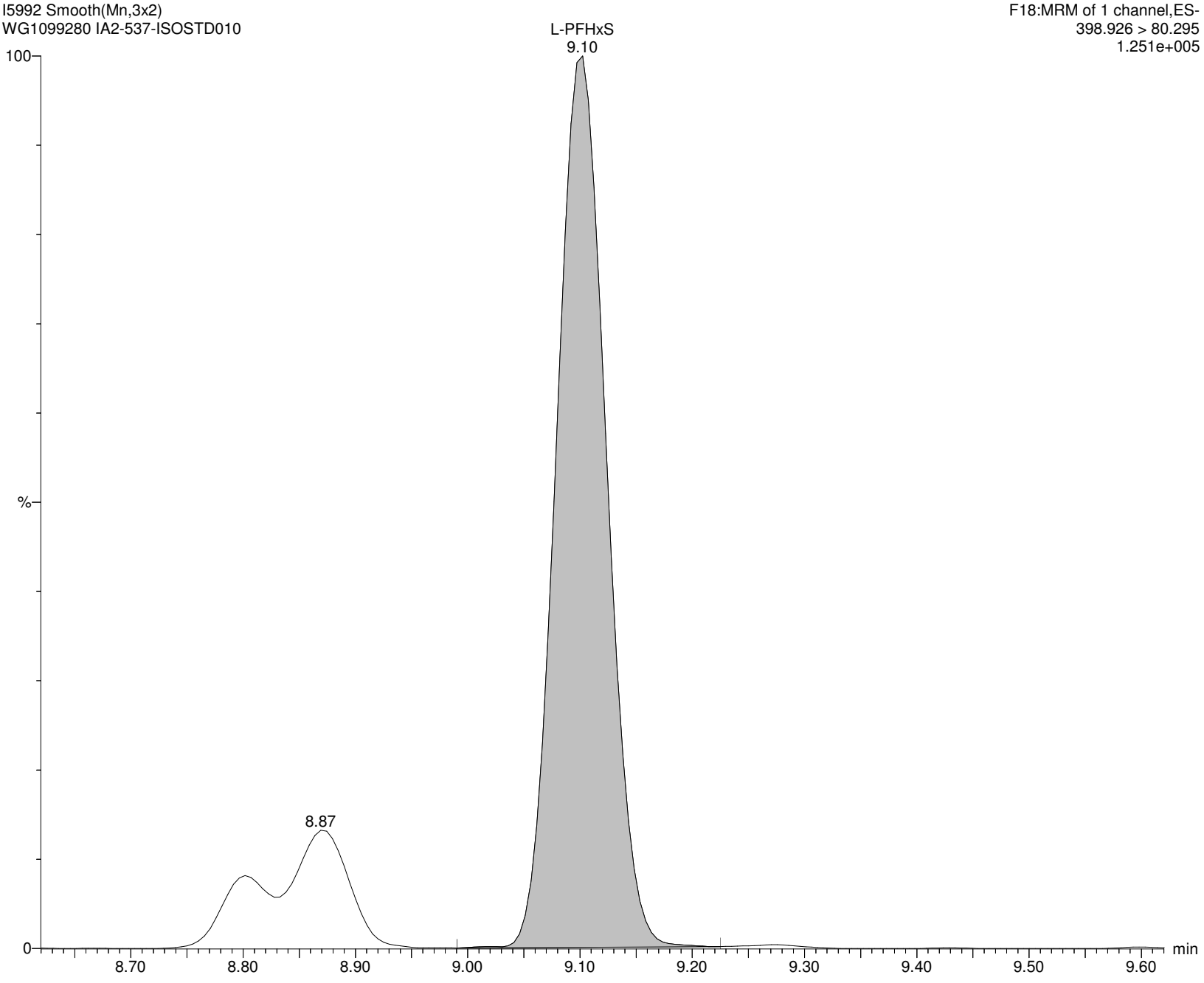

all concentration units in (ng/mL)

Alpha Analytical Inc.
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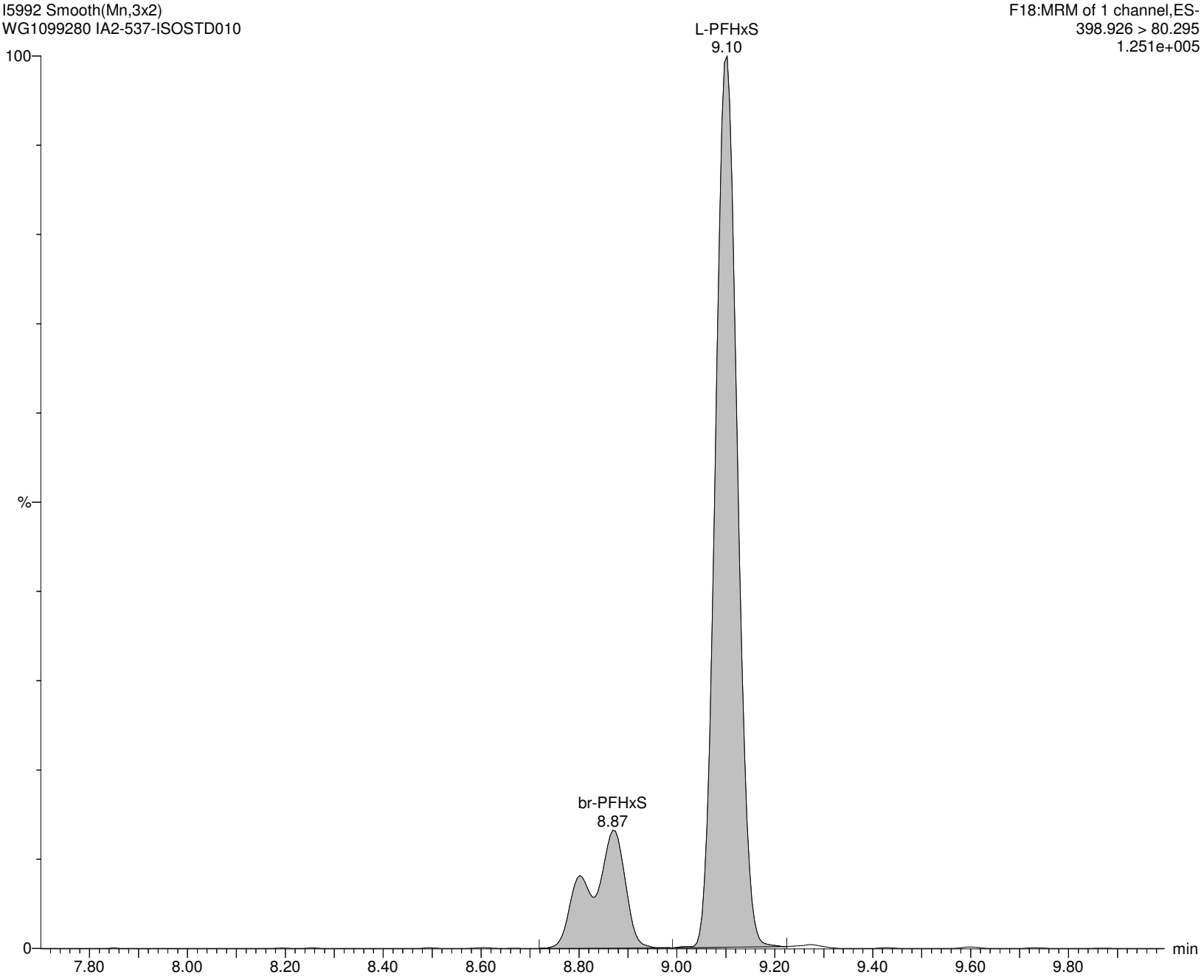

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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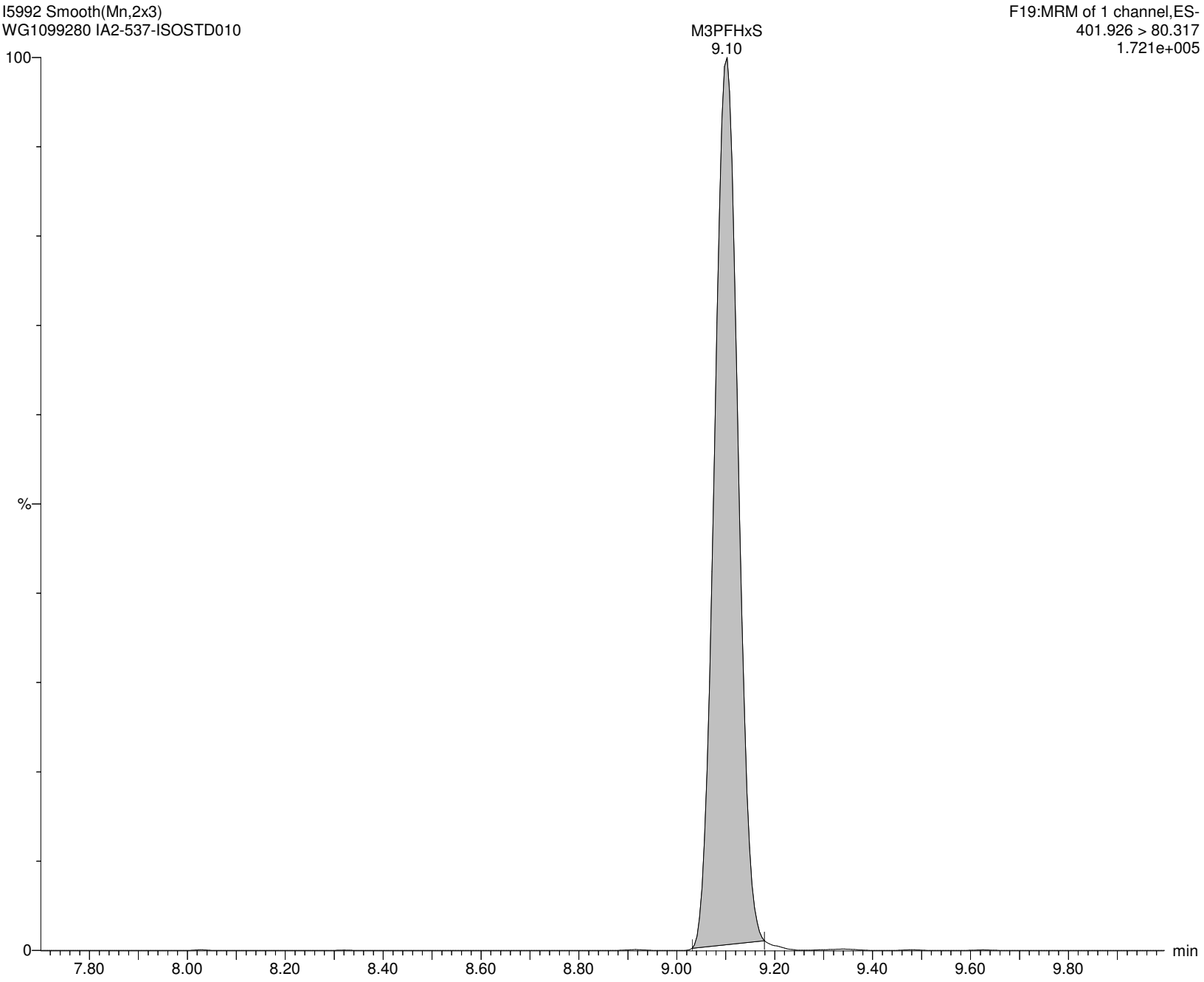

all concentration units in (ng/mL)

Alpha Analytical Inc.
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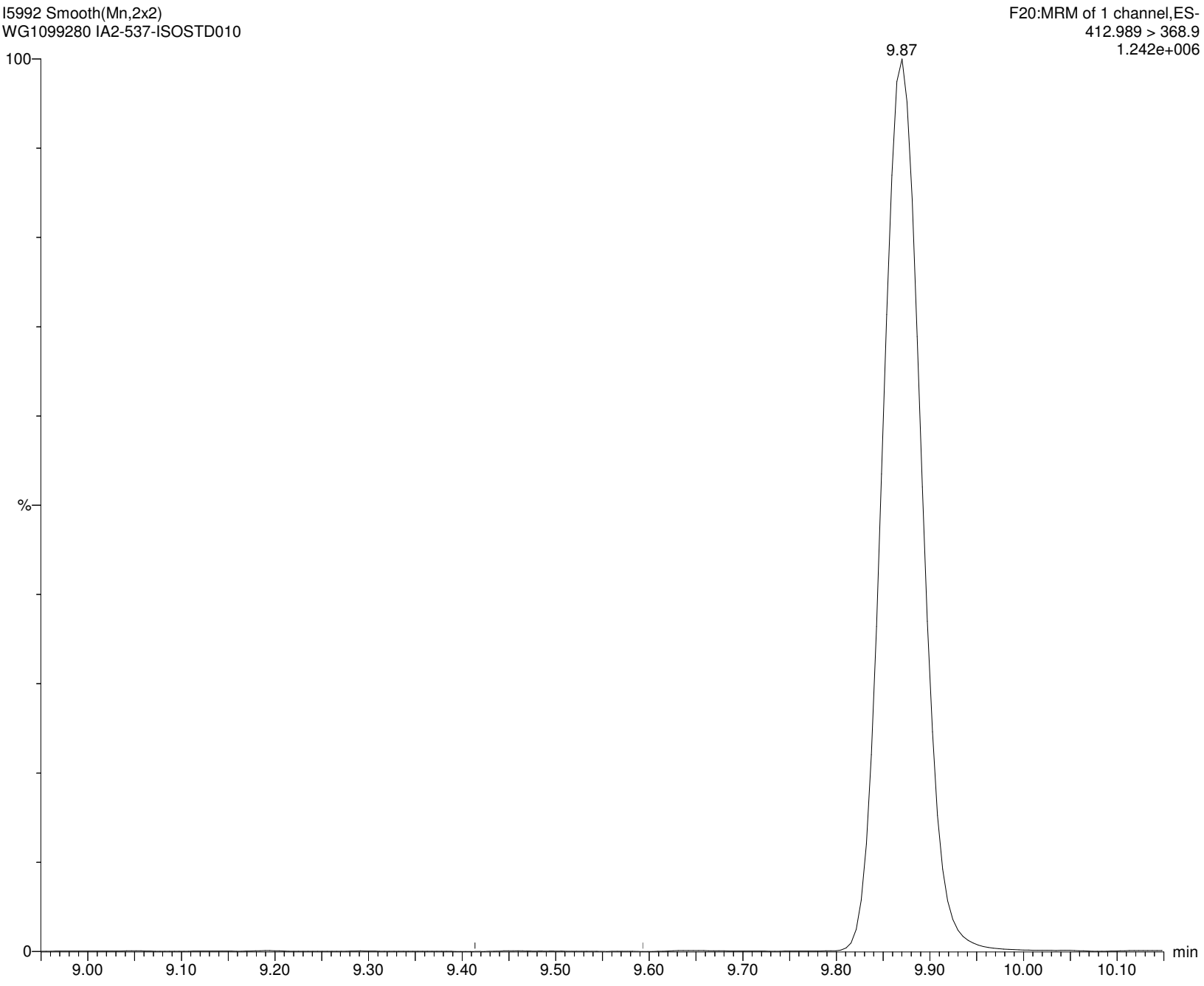

all concentration units in (ng/mL)

Alpha Analytical Inc.
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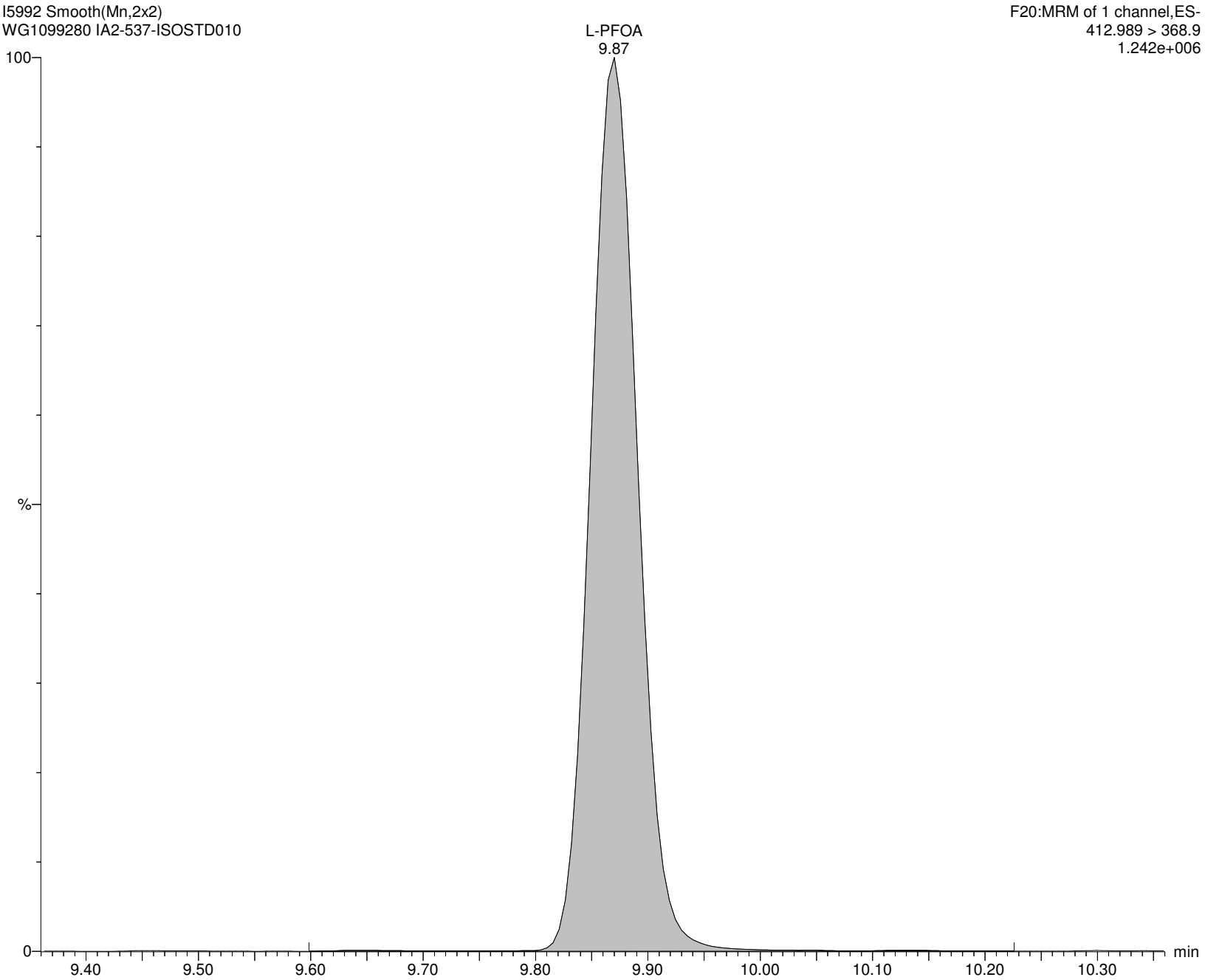

all concentration units in (ng/mL)

Alpha Analytical Inc.
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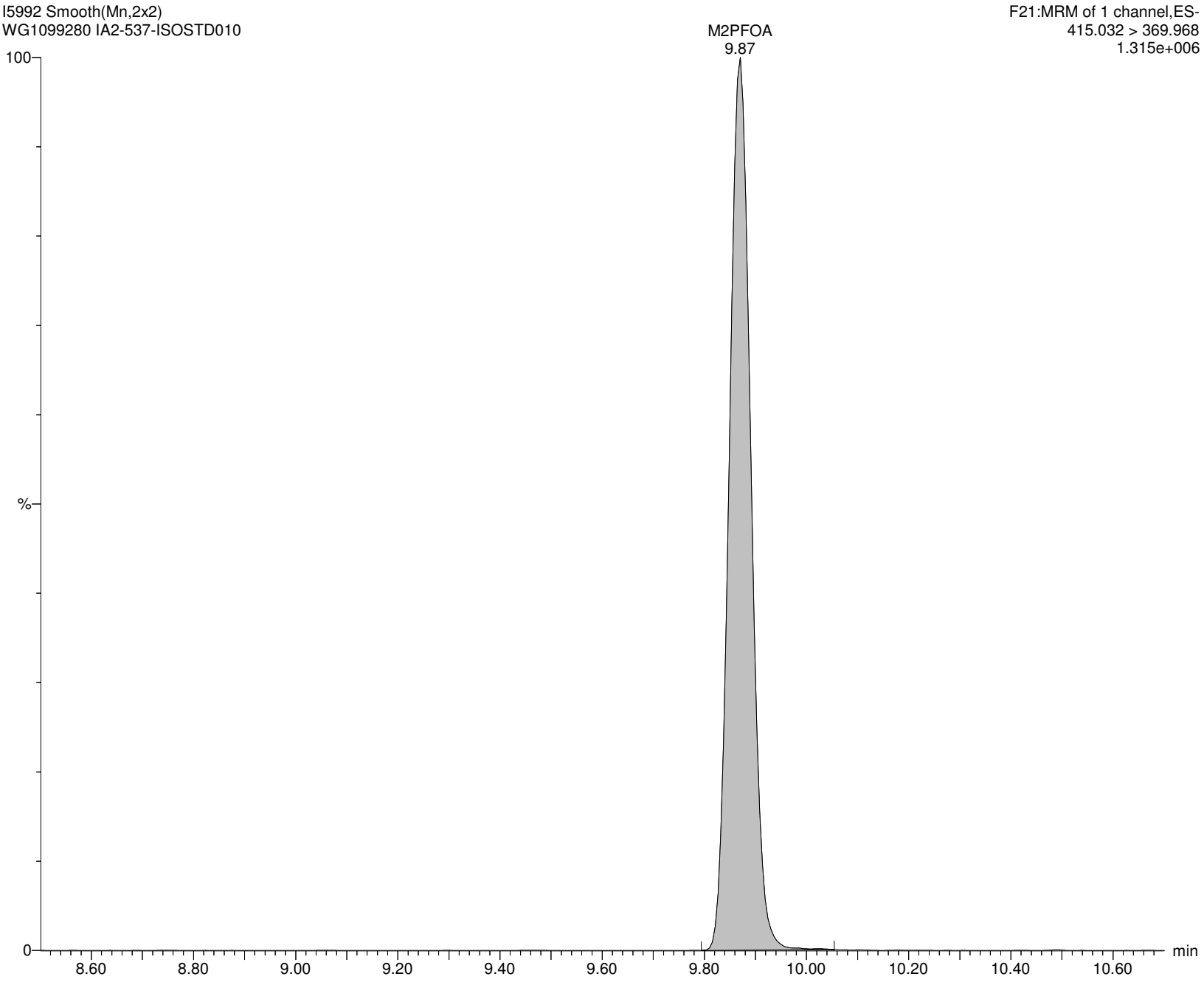

all concentration units in (ng/mL)

Alpha Analytical Inc.
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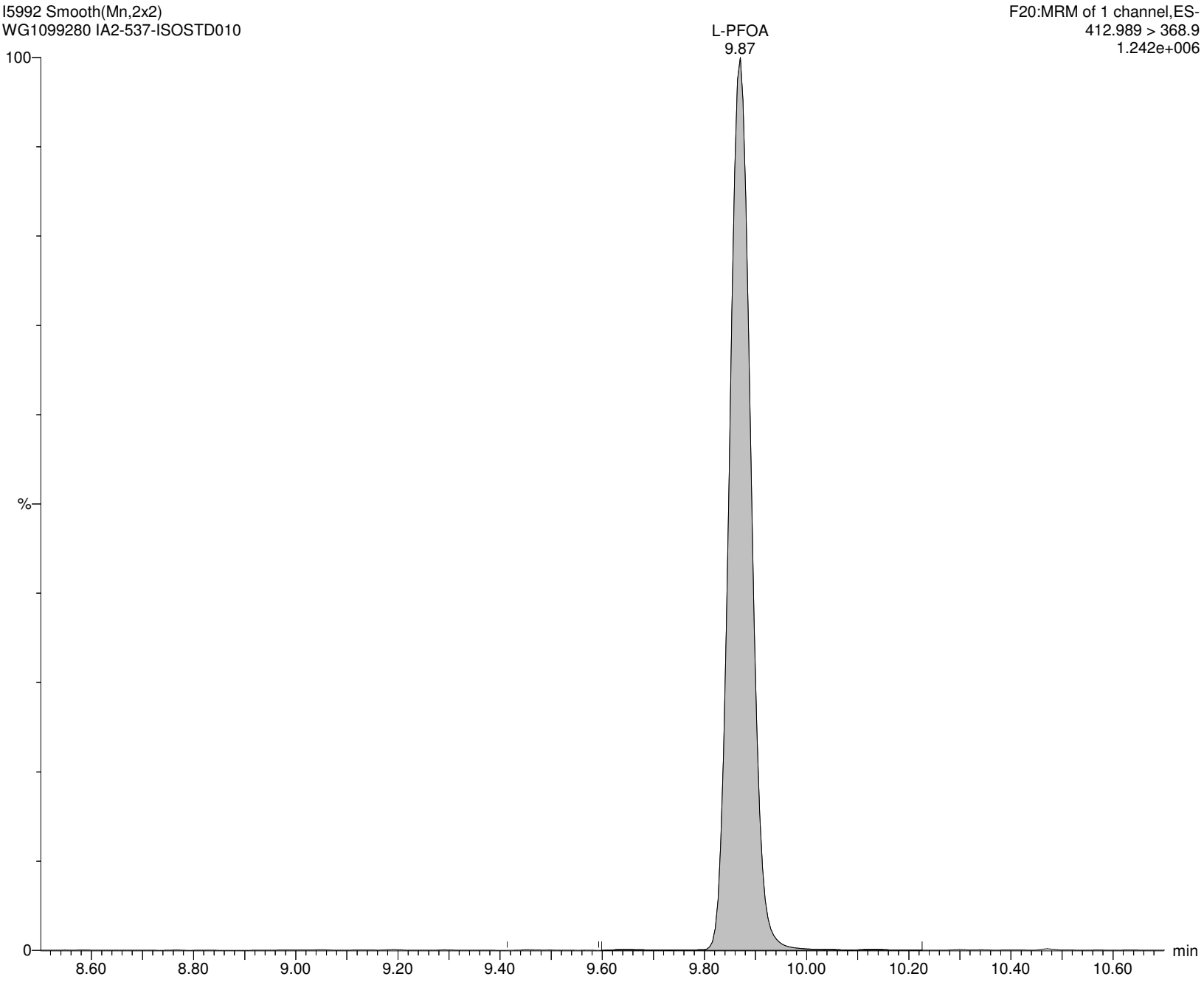

all concentration units in (ng/mL)

Alpha Analytical Inc.
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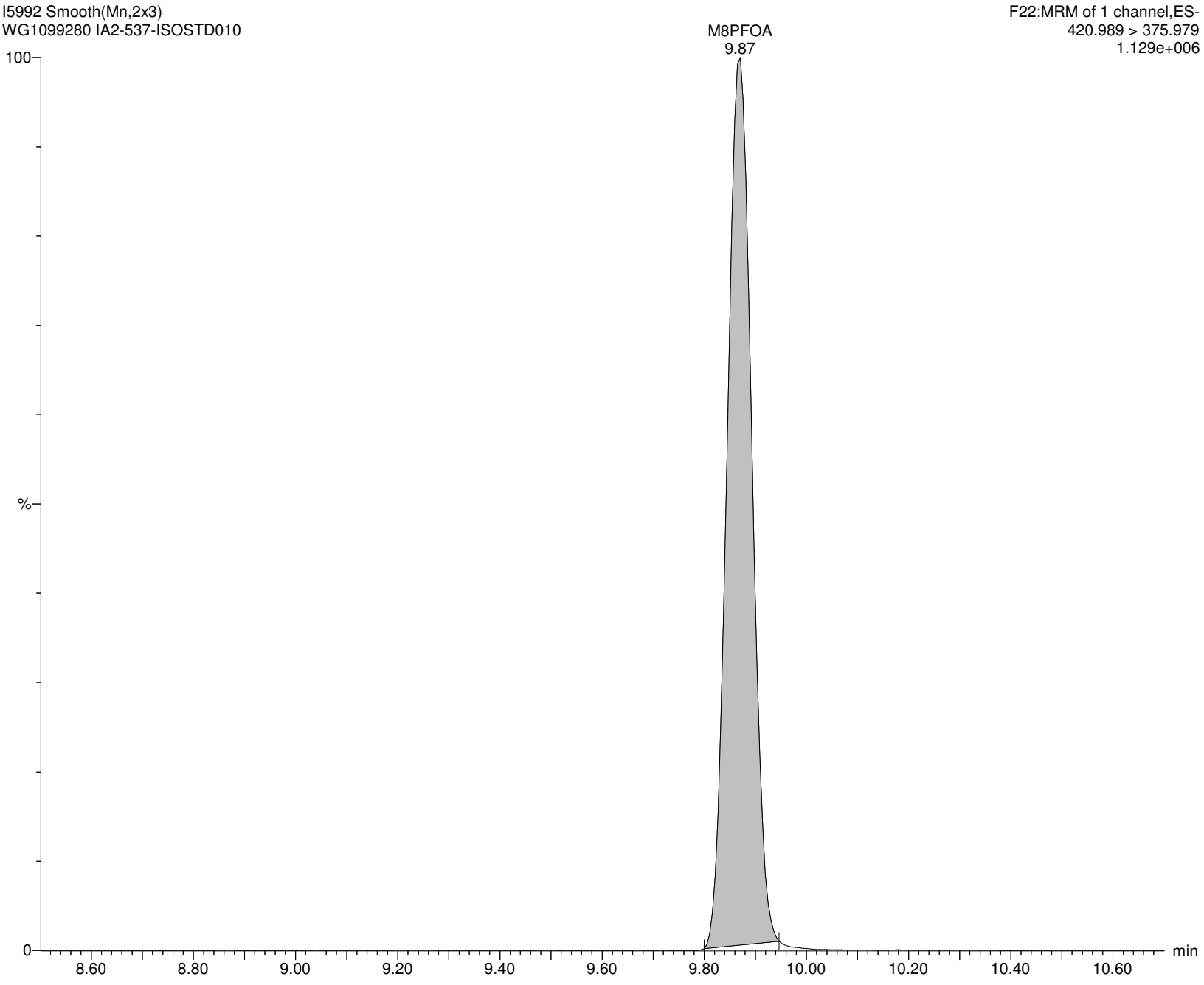

all concentration units in (ng/mL)

Alpha Analytical Inc.
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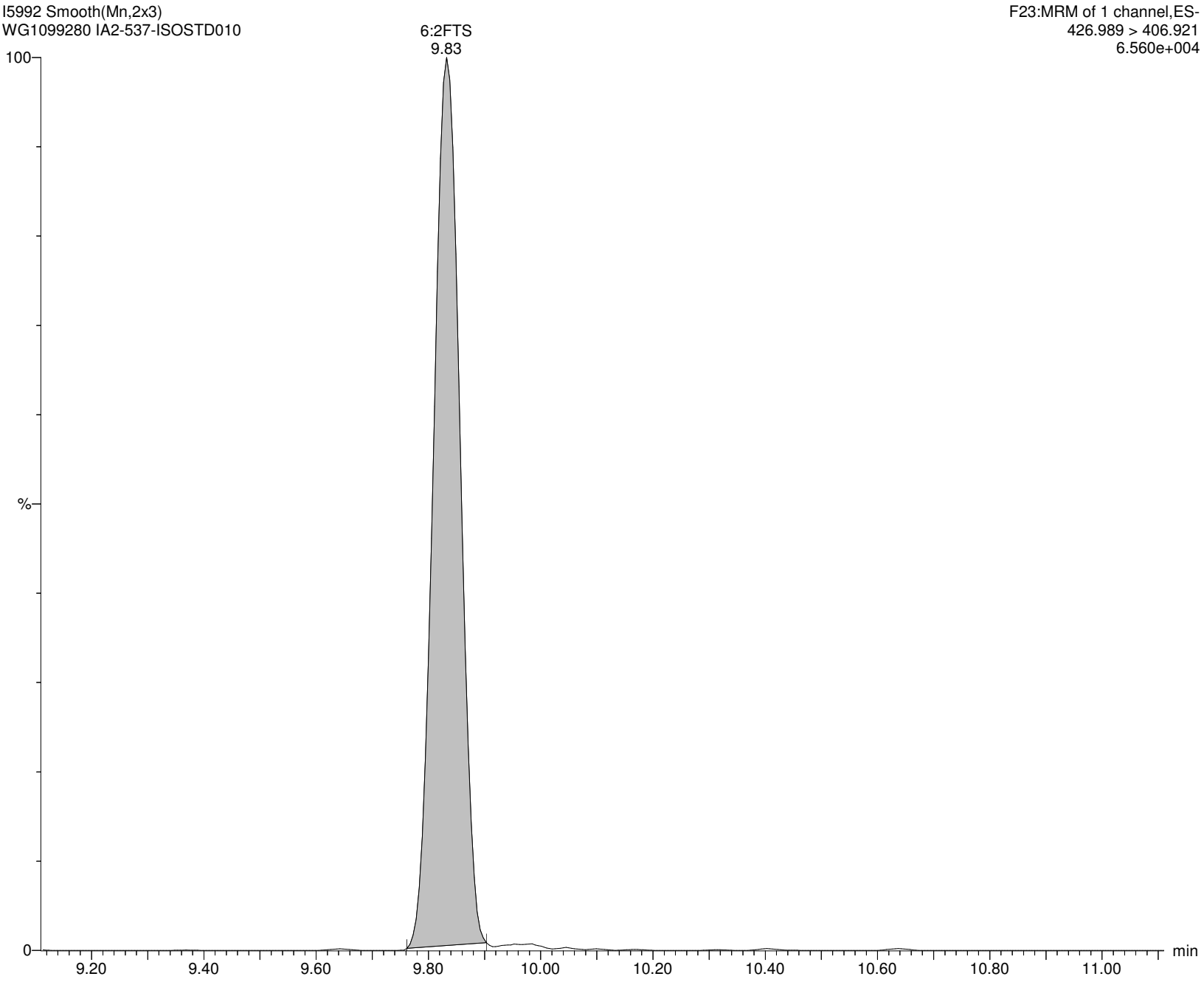
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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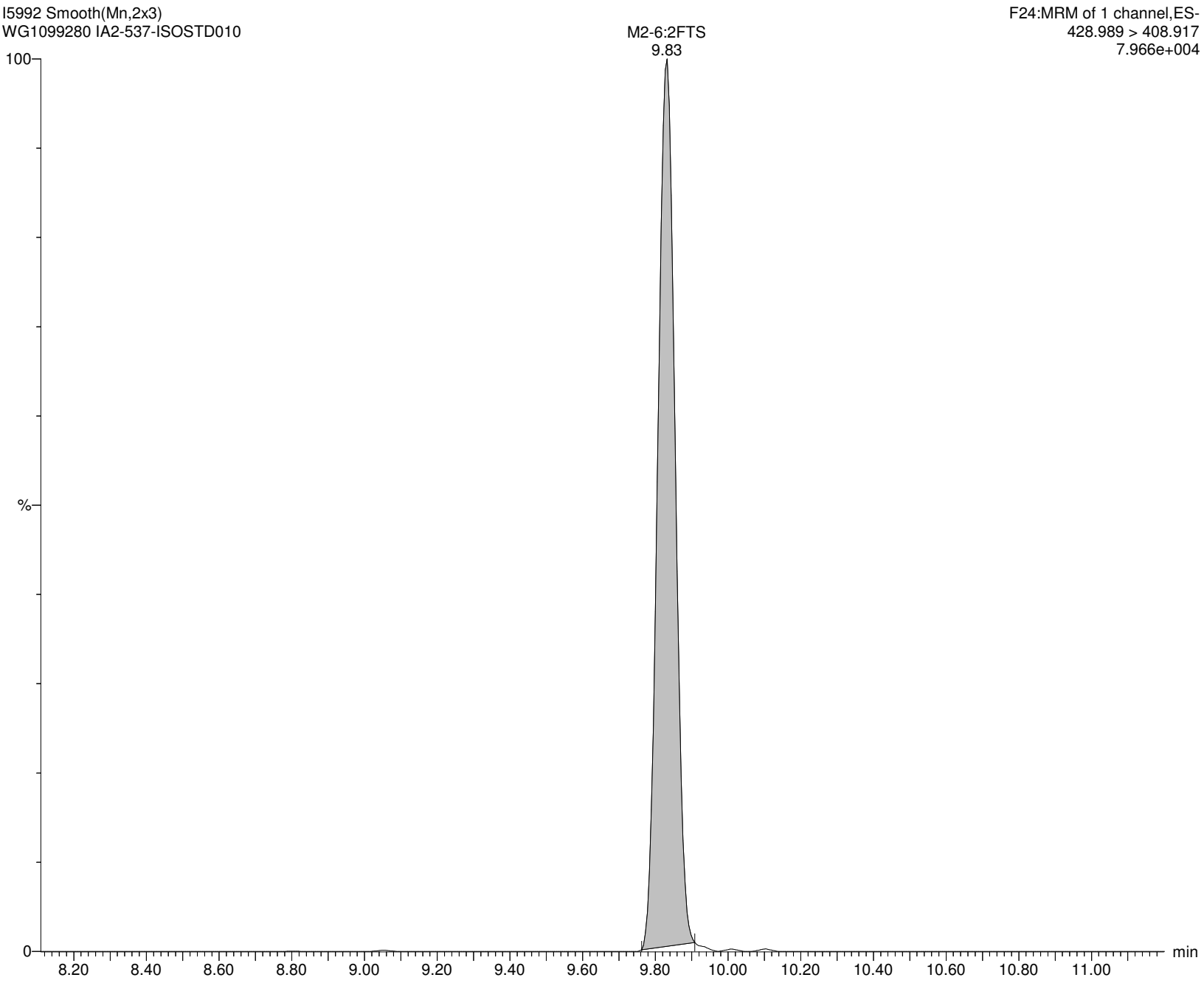

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:PB
Vial: 2:A,5
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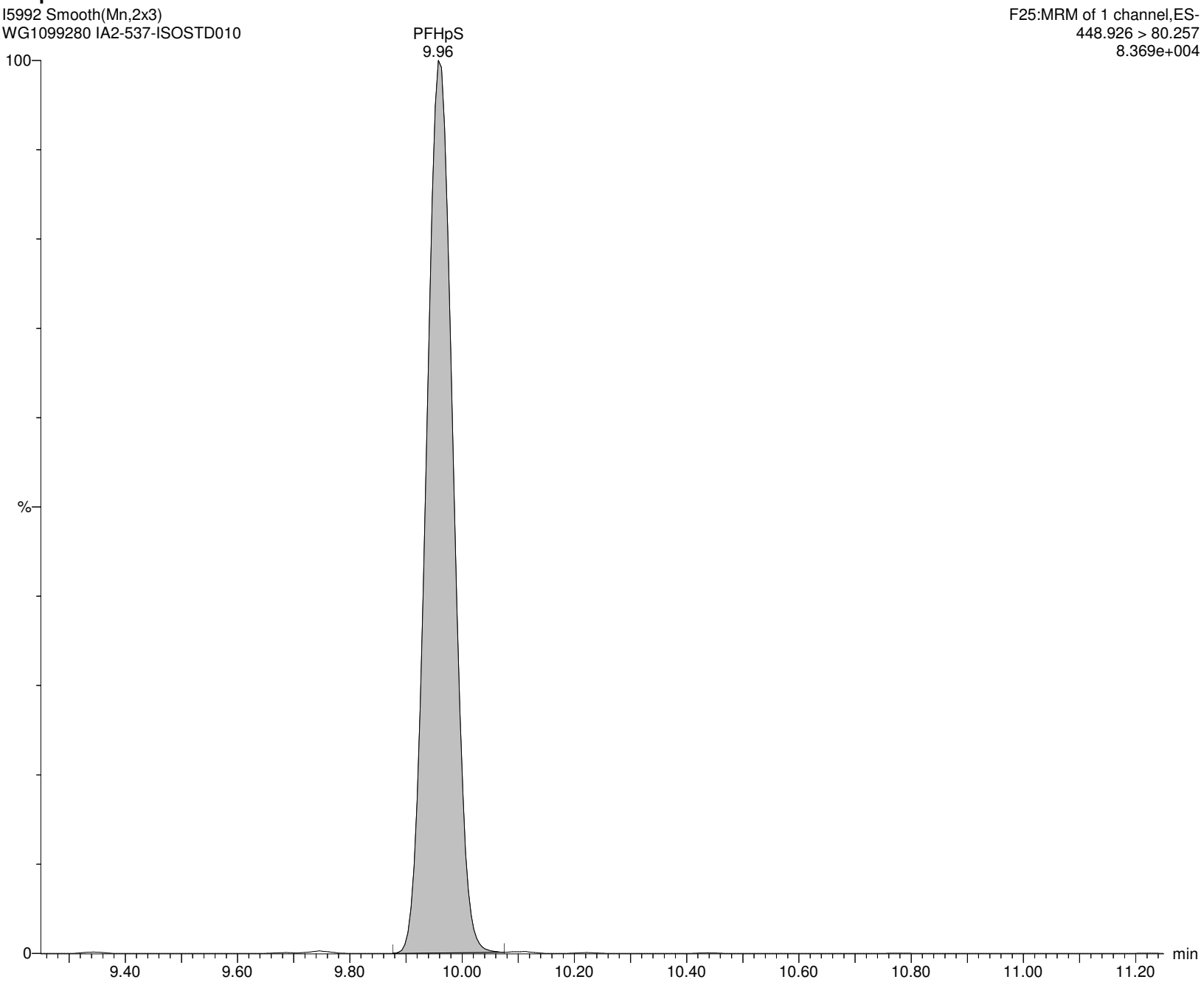

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:51 Eastern Daylight Time

Name: I5992
ID: IA2-537-ISOSTD010
Date: 21-Mar-2018
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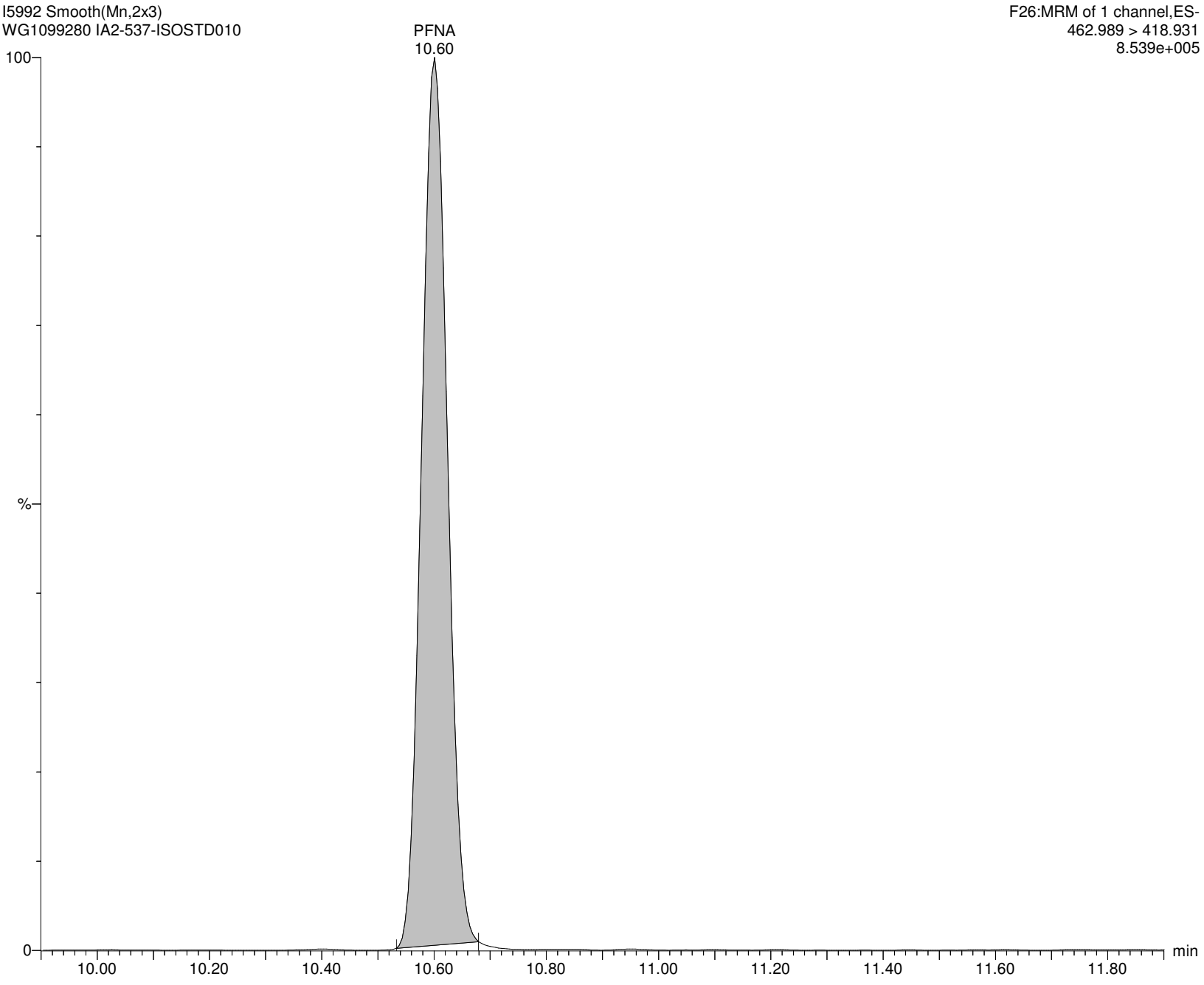

all concentration units in (ng/mL)

Alpha Analytical Inc.
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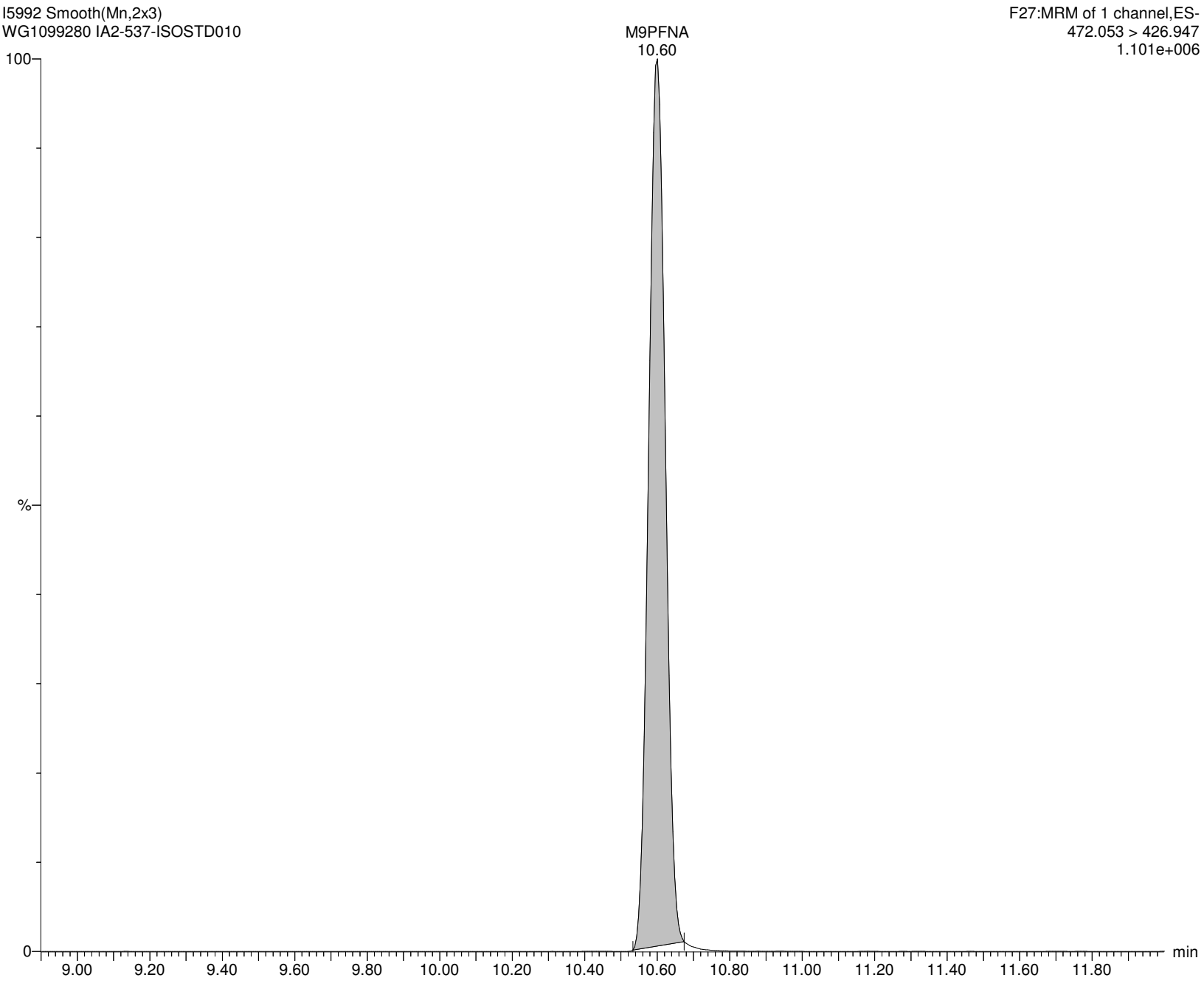

all concentration units in (ng/mL)

Alpha Analytical Inc.
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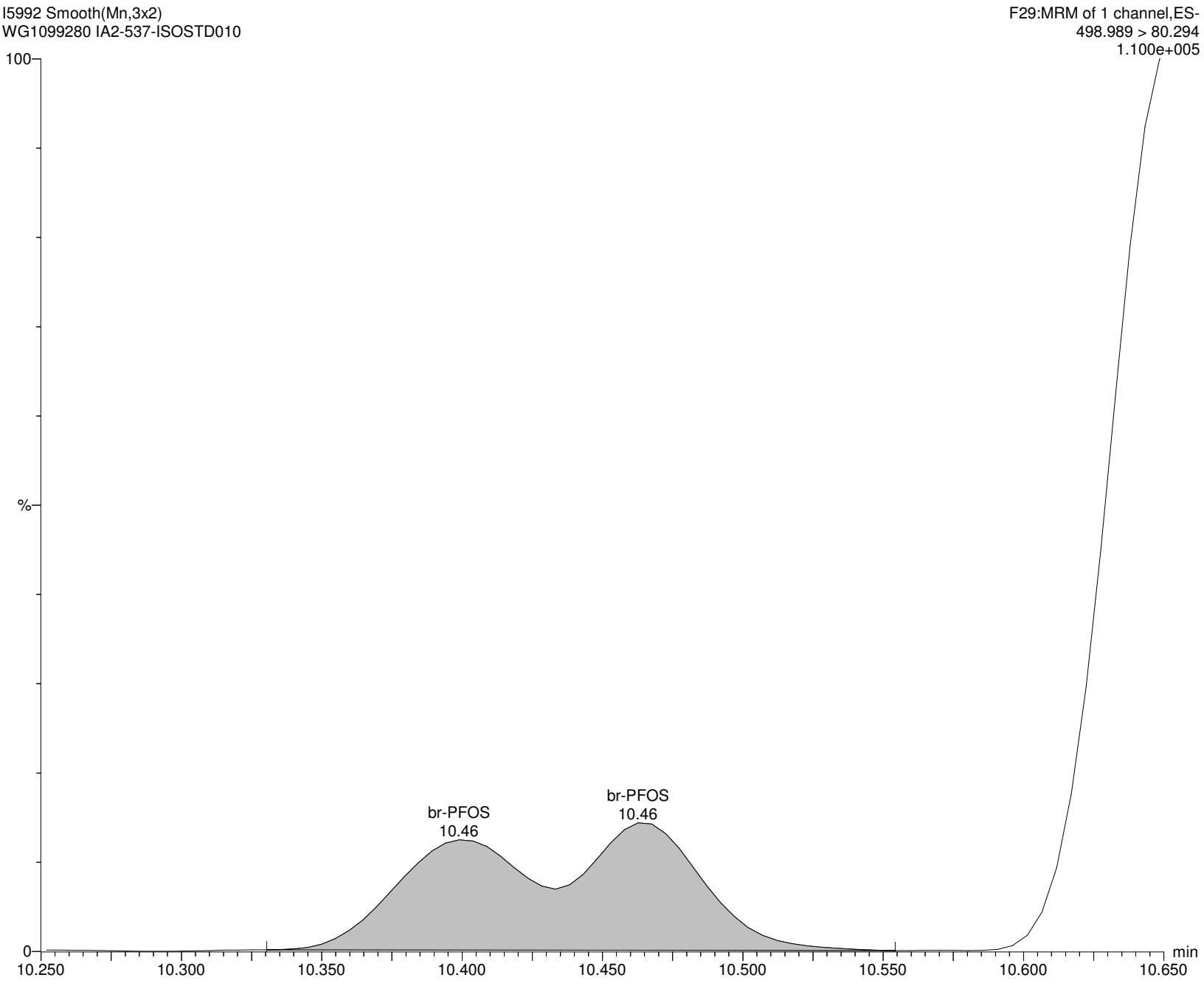

all concentration units in (ng/mL)

Alpha Analytical Inc.
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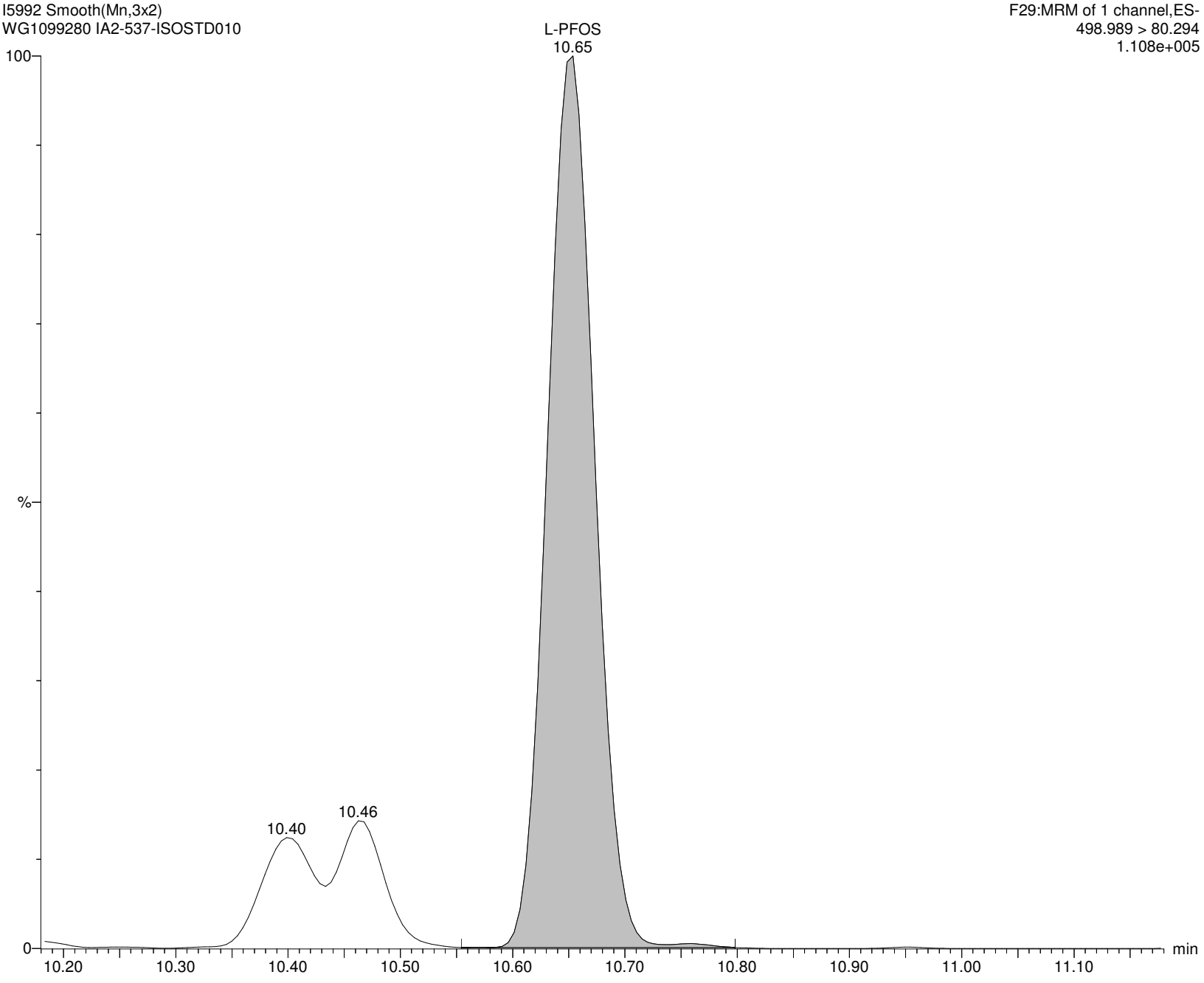

all concentration units in (ng/mL)

Alpha Analytical Inc.
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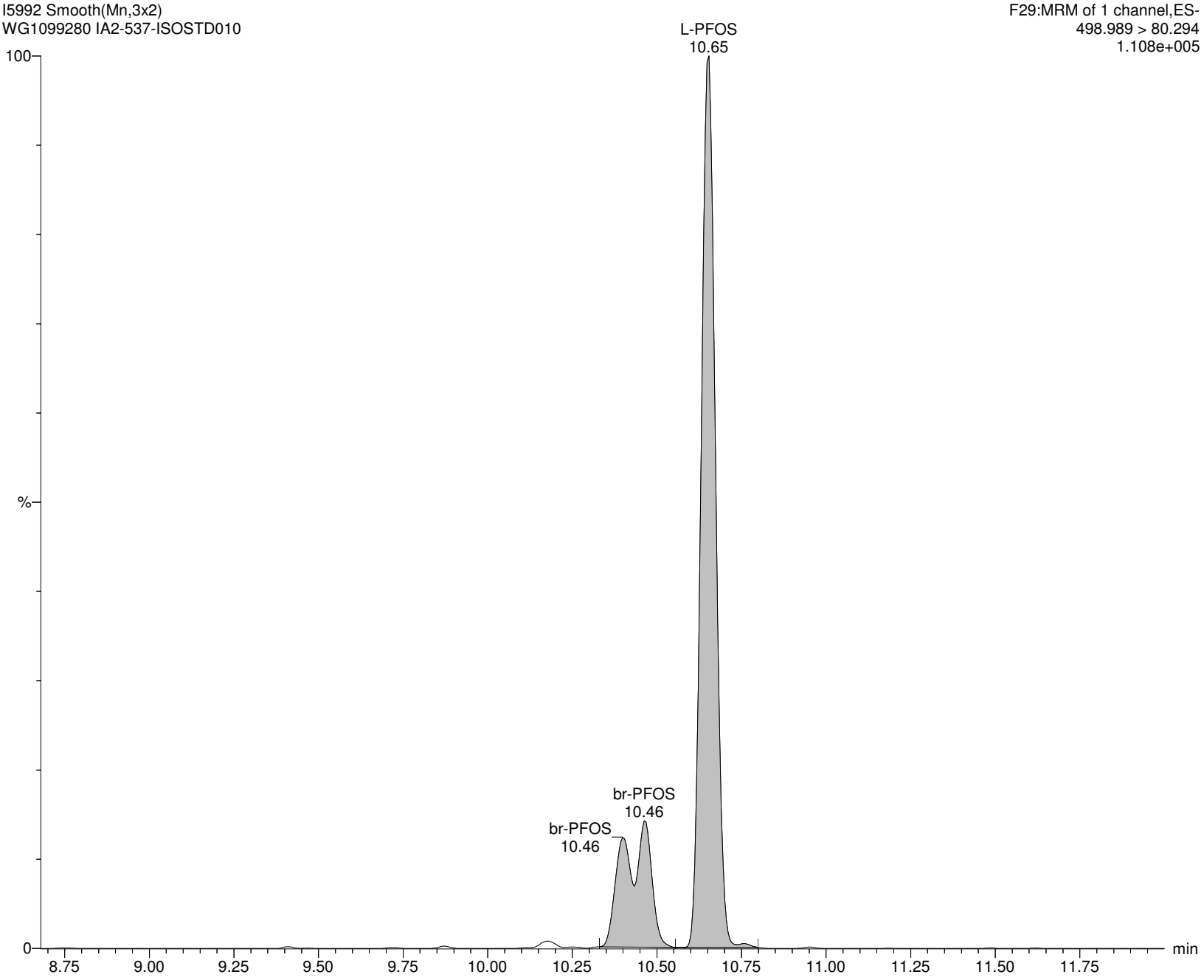

all concentration units in (ng/mL)

Alpha Analytical Inc.
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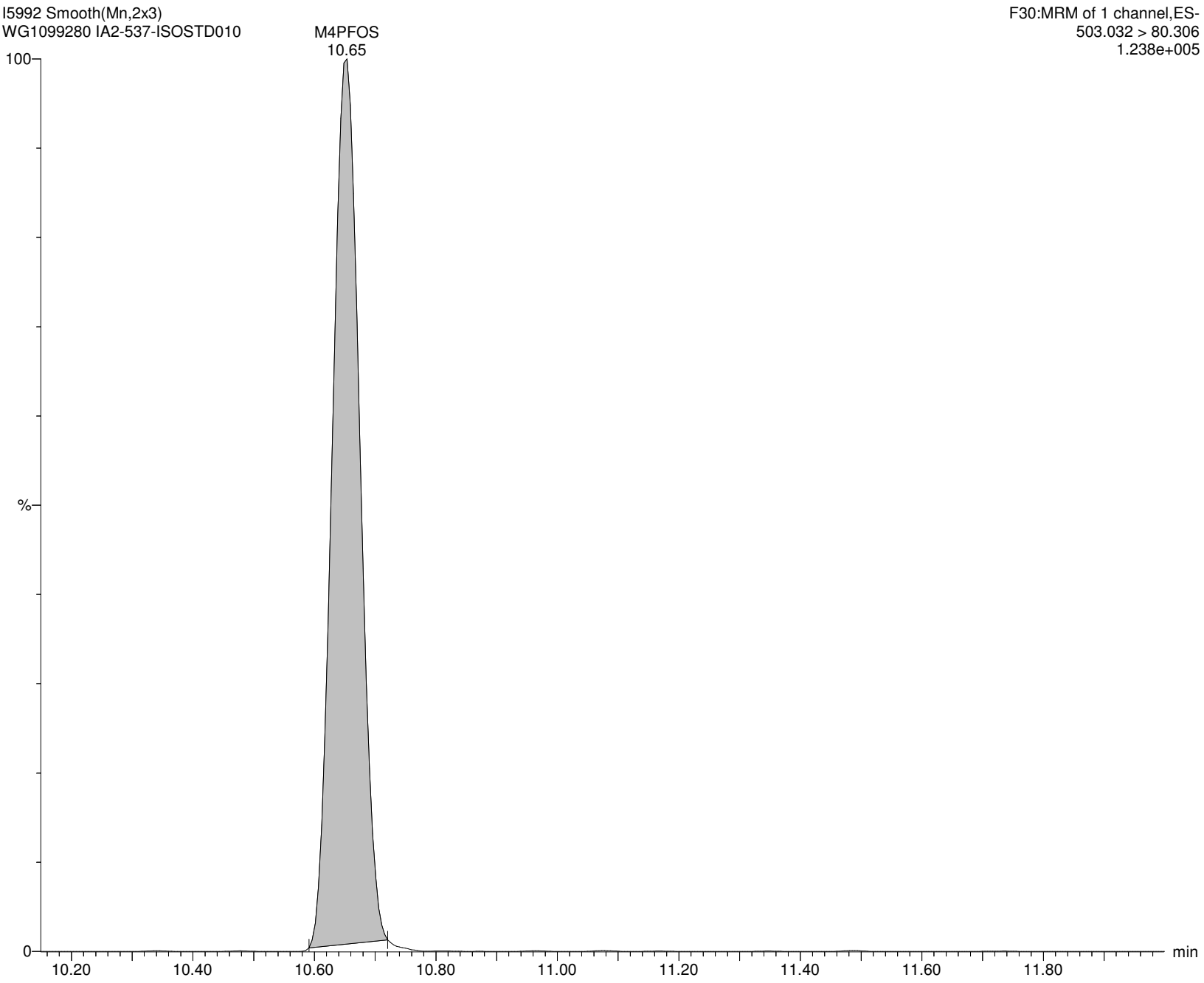

all concentration units in (ng/mL)

Alpha Analytical Inc.
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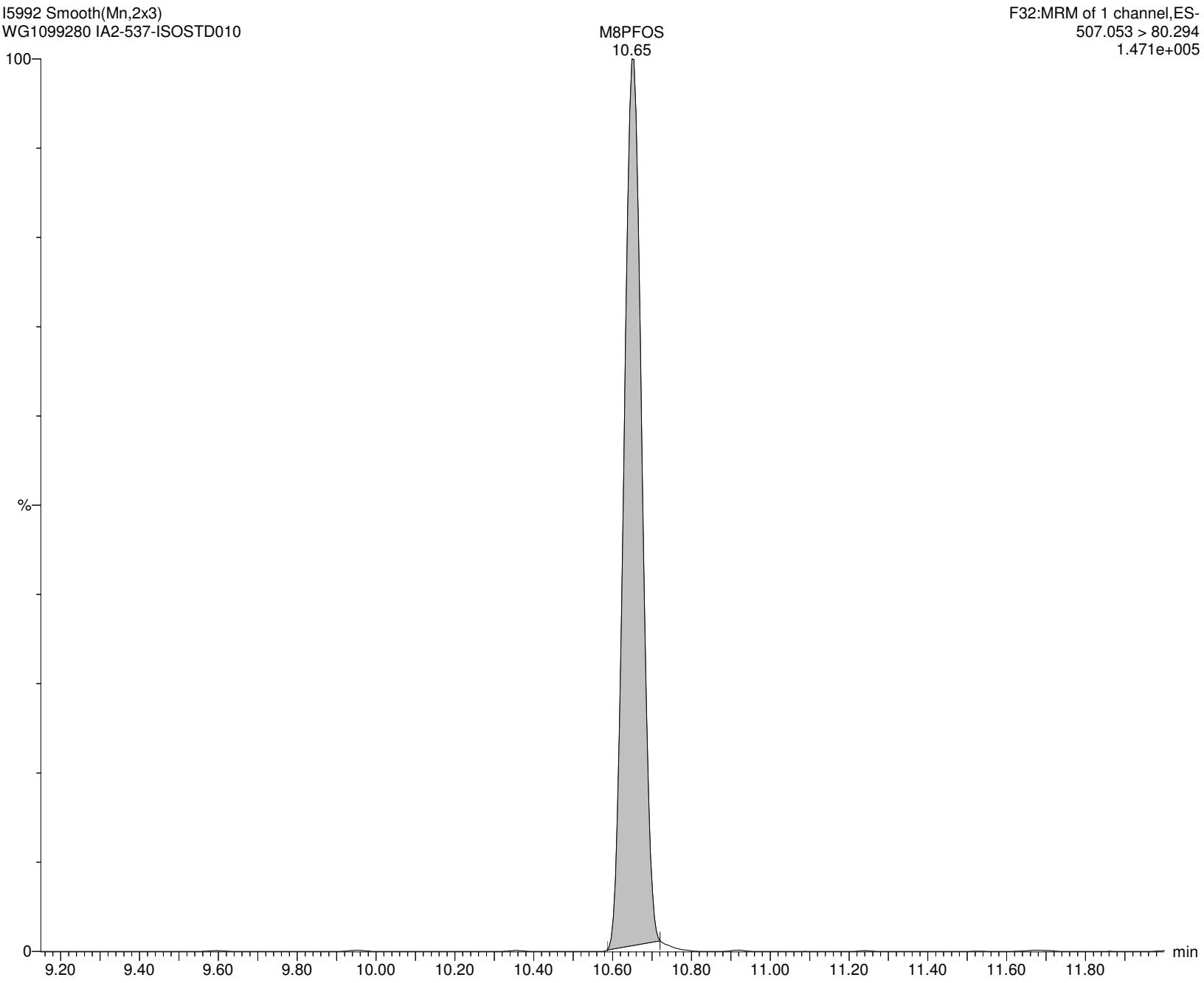

all concentration units in (ng/mL)

Alpha Analytical Inc.
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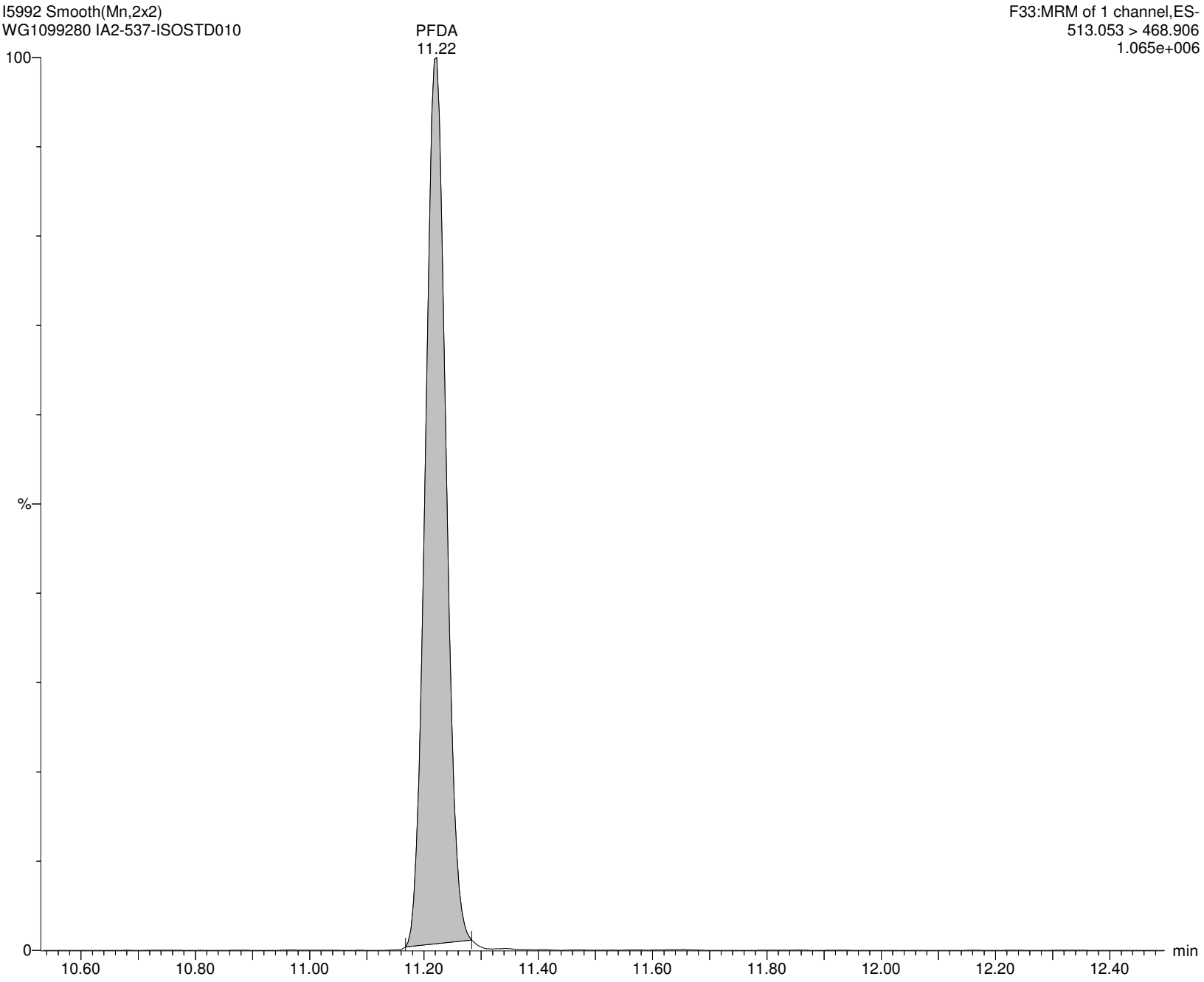

all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: IA2-537-ISOSTD010
Date: 21-Mar-2018
Time: 16:58:29
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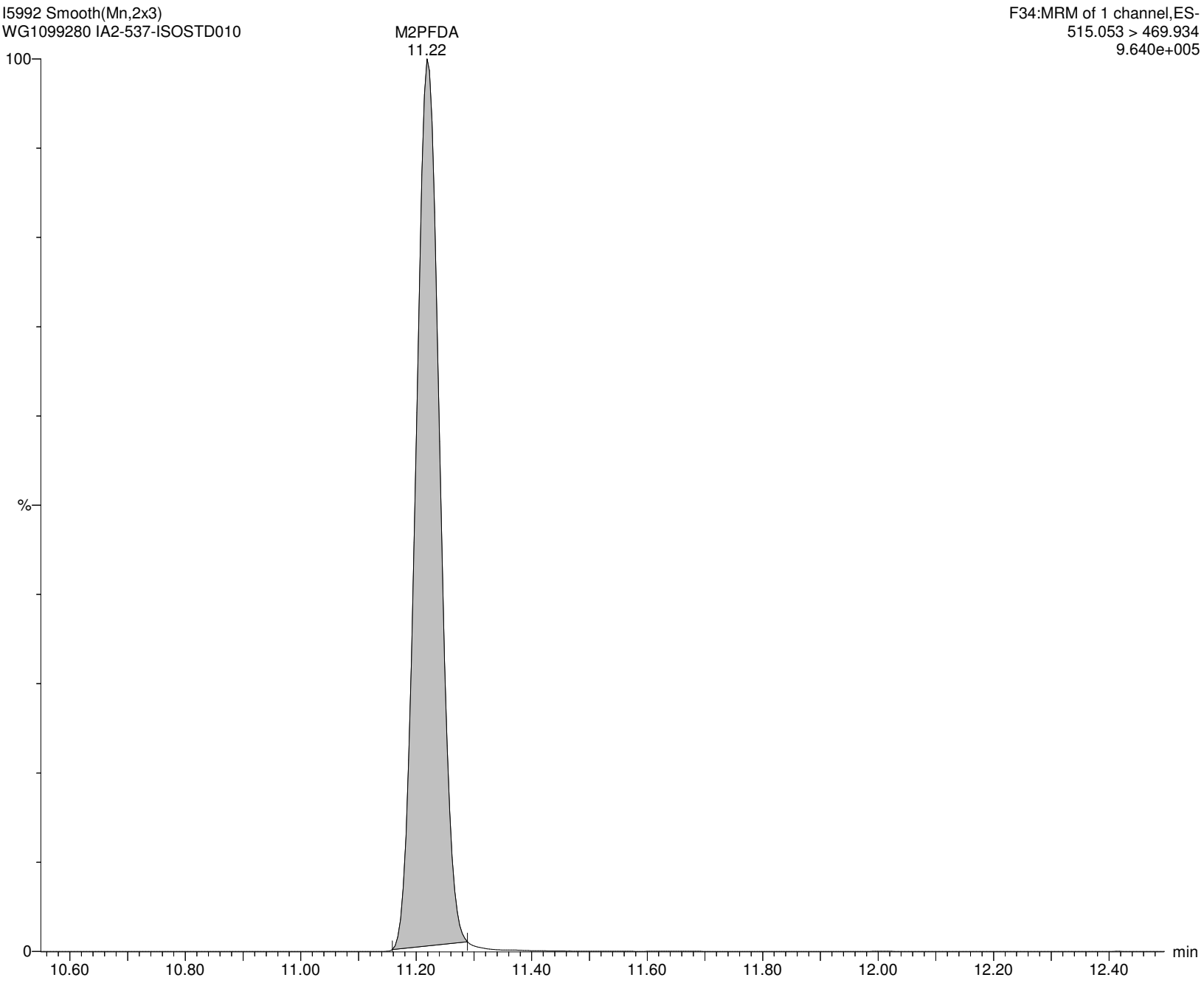

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Date: 21-Mar-2018
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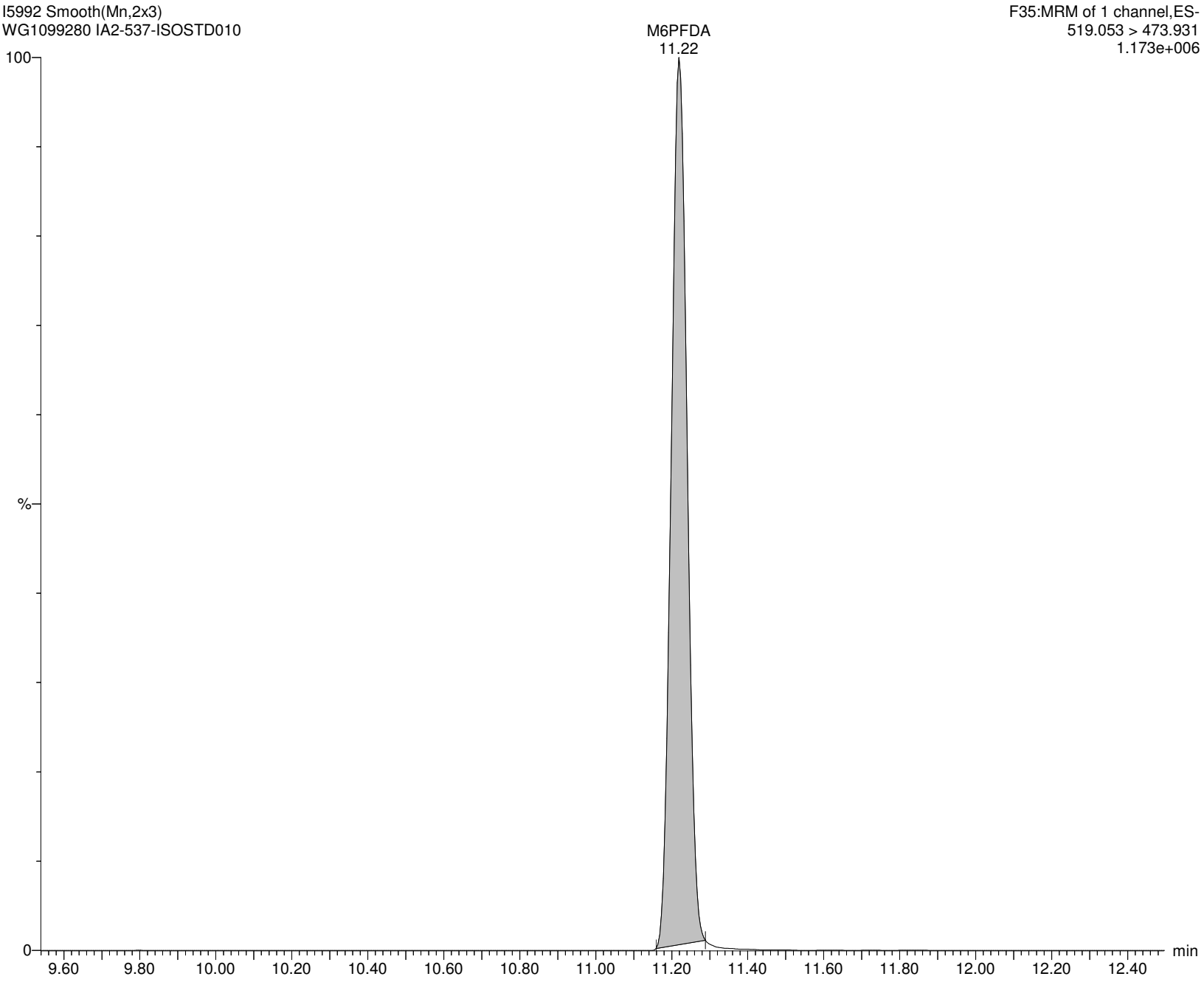

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Date: 21-Mar-2018
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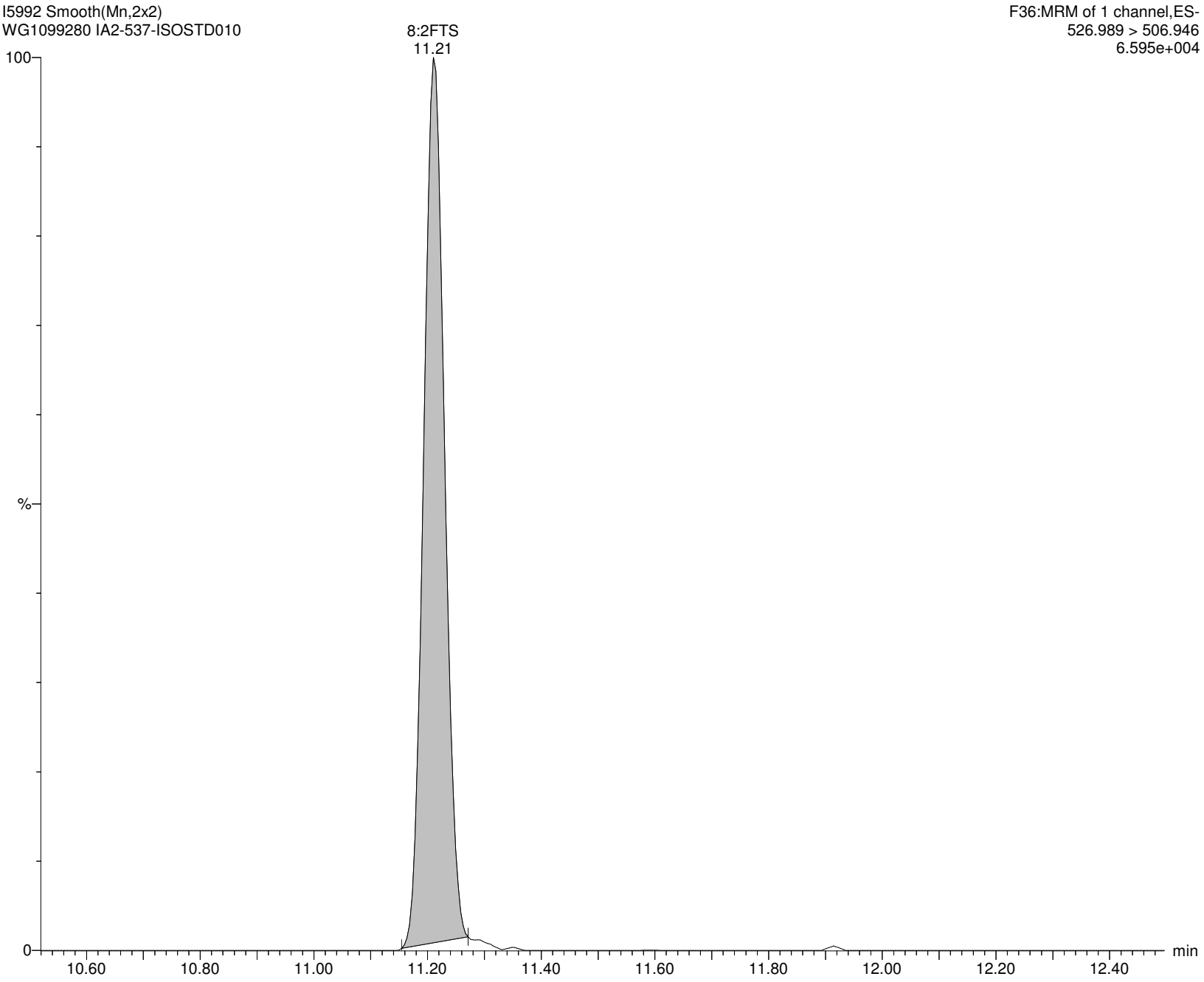
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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Date: 21-Mar-2018
Time: 16:58:29
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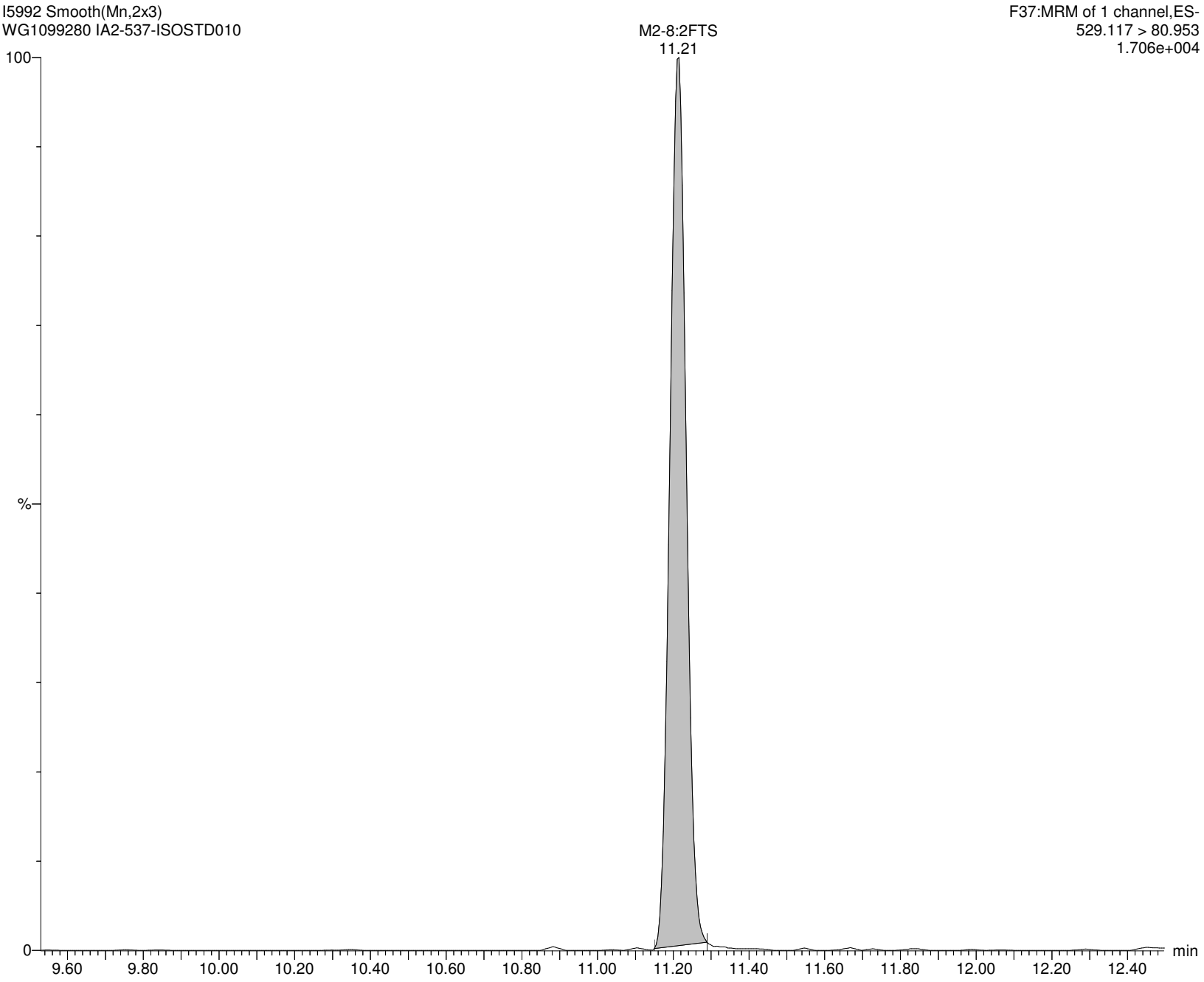

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Date: 21-Mar-2018
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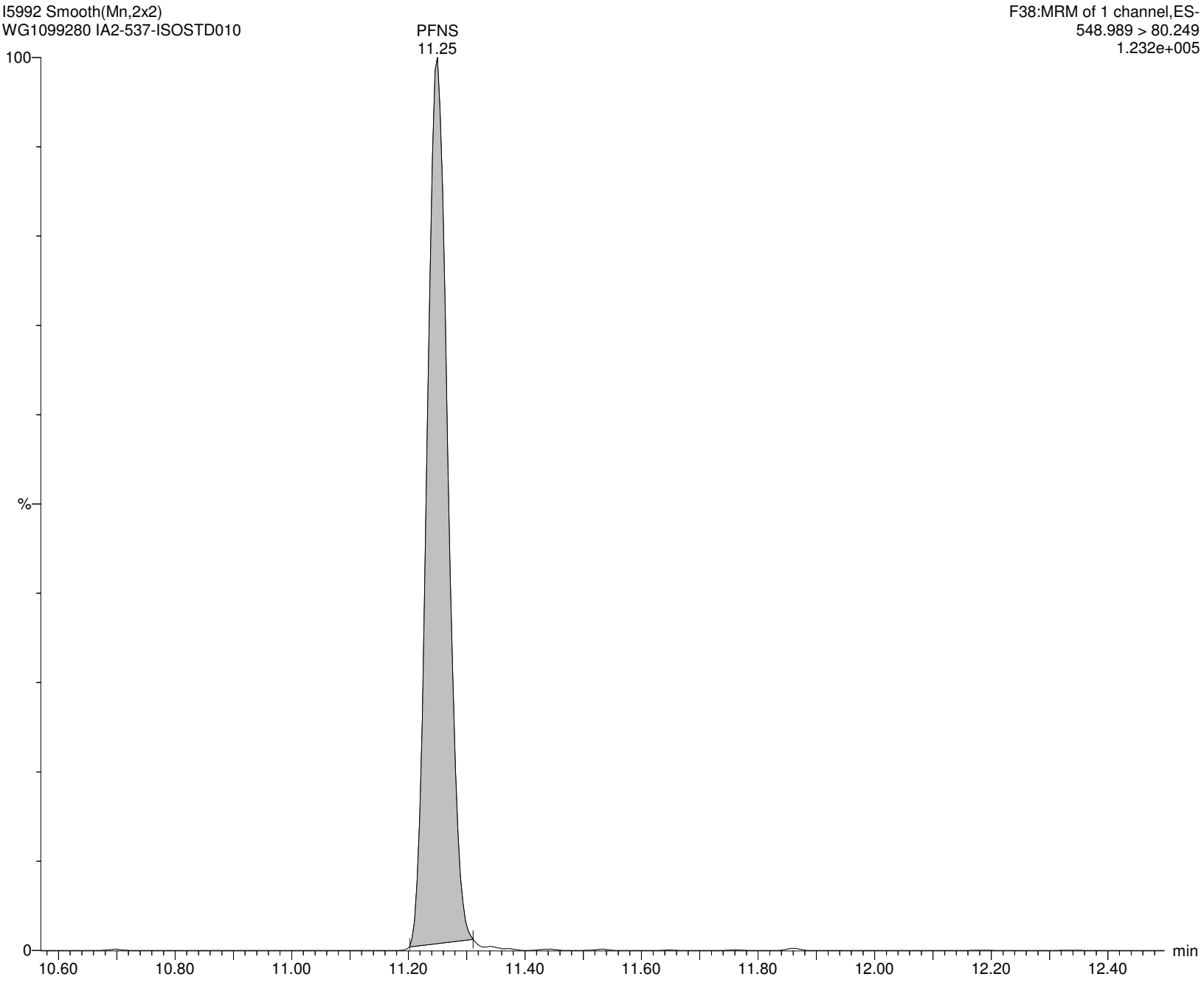

all concentration units in (ng/mL)

Alpha Analytical Inc.
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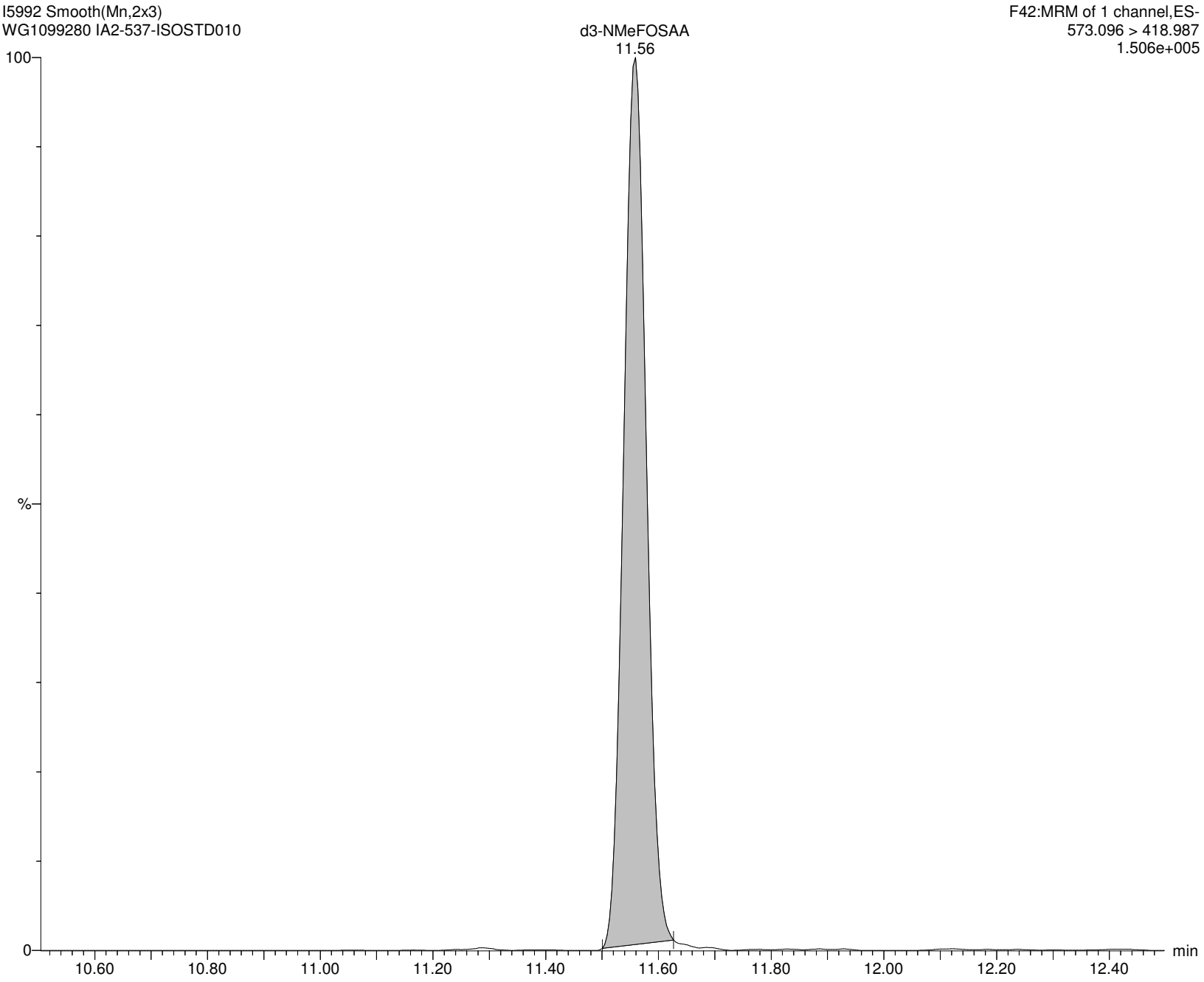

all concentration units in (ng/mL)

Alpha Analytical Inc.
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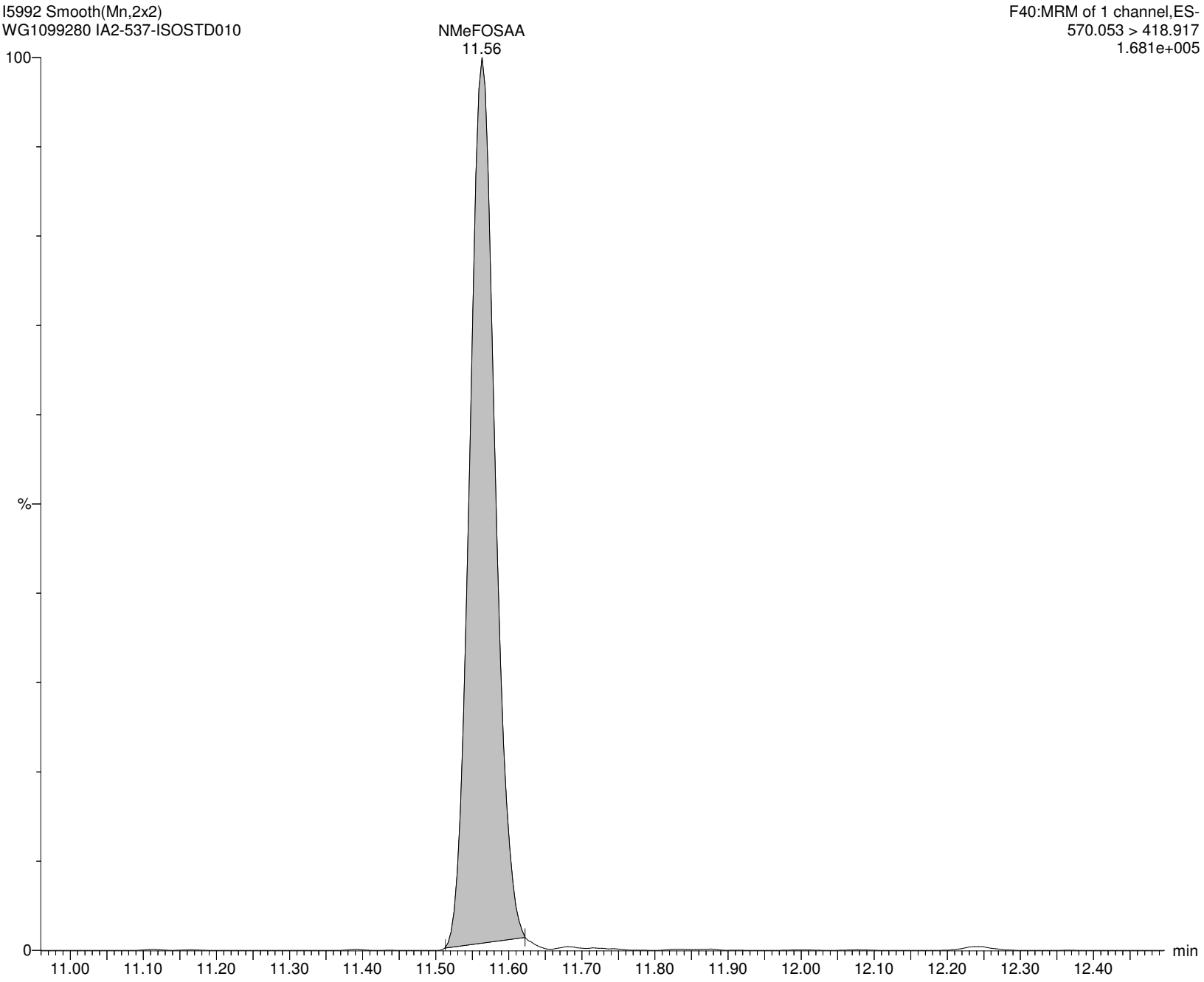

all concentration units in (ng/mL)

Alpha Analytical Inc.
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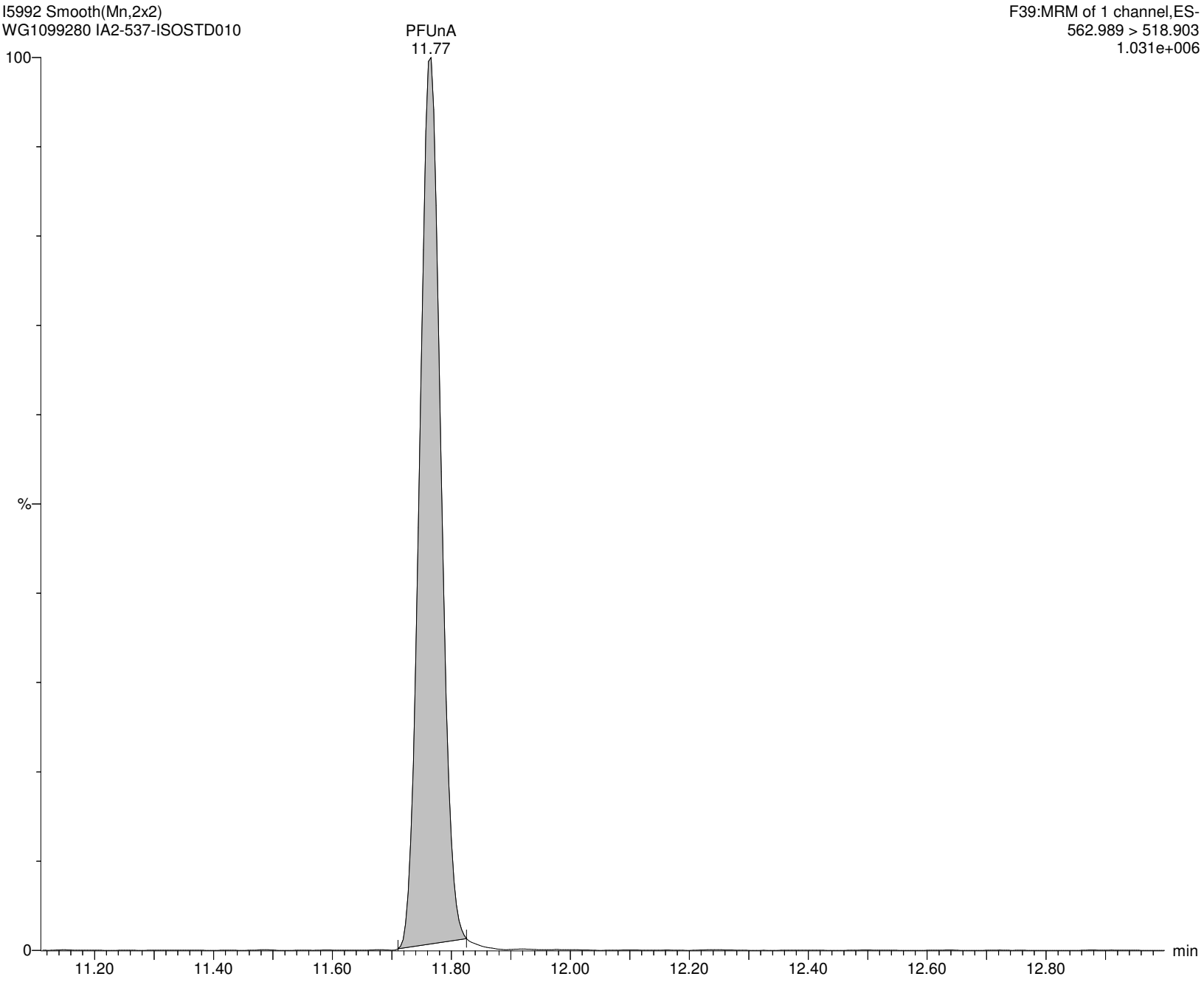

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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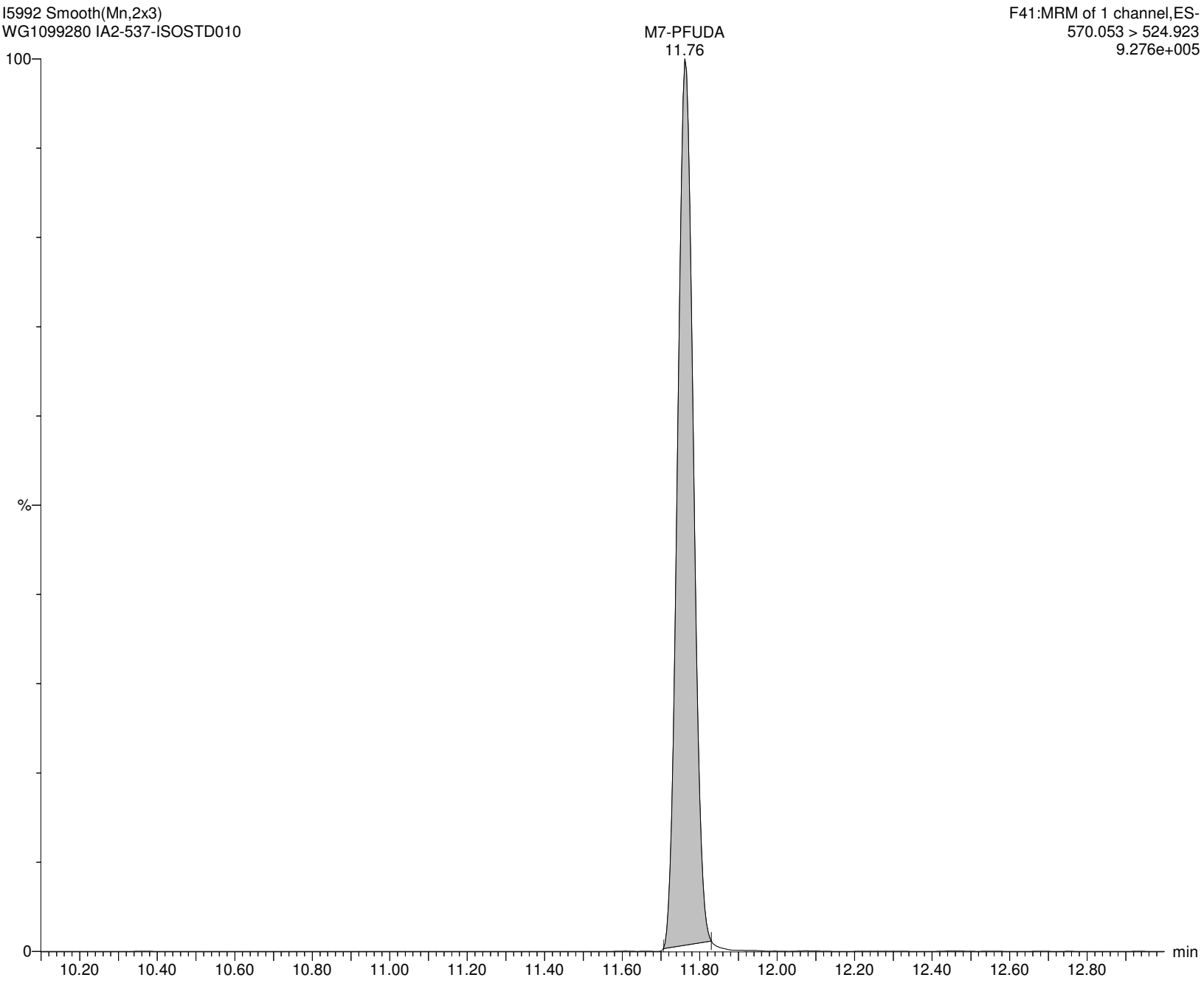
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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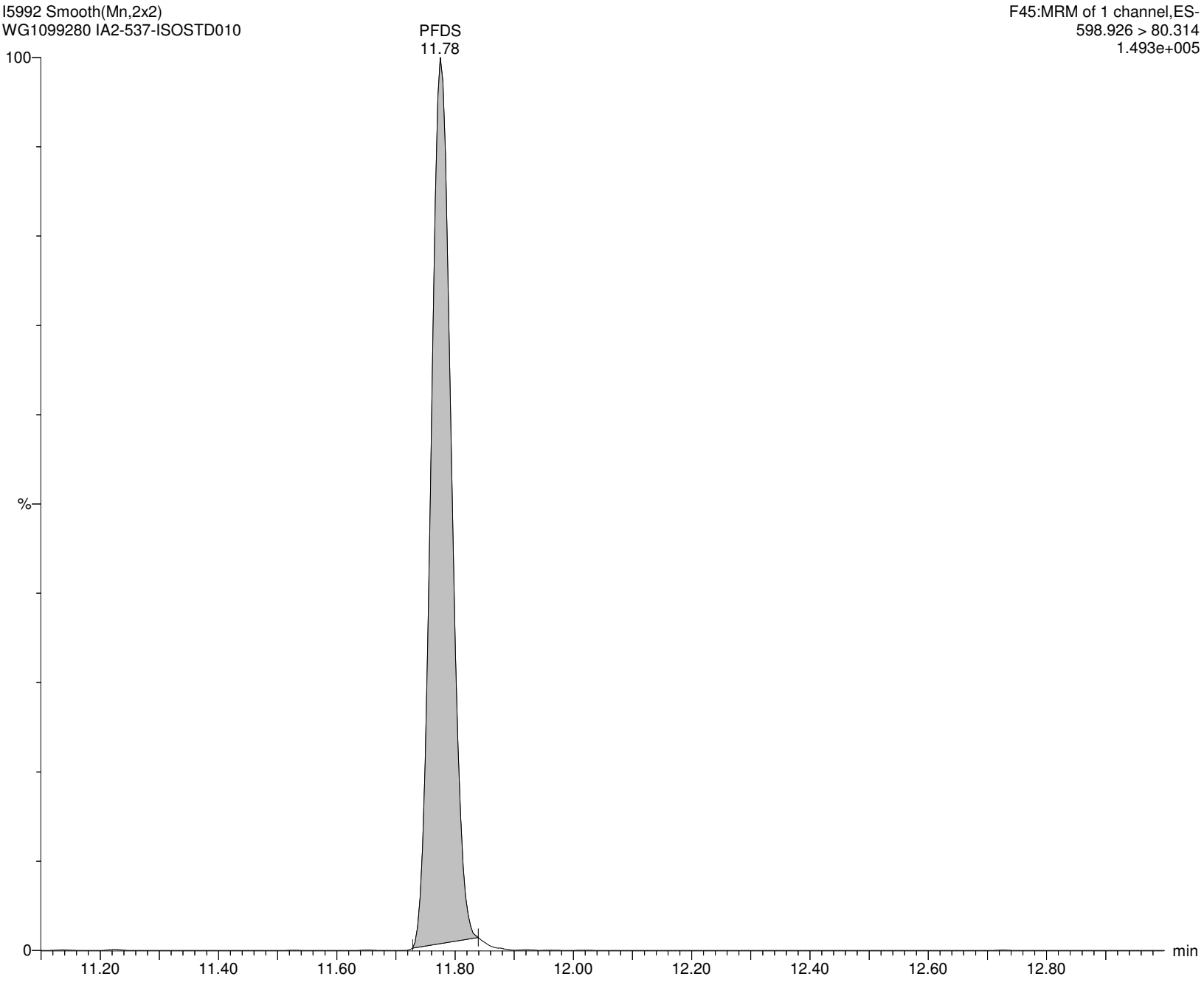

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:51 Eastern Daylight Time

Name: I5992
ID: IA2-537-ISOSTD010
Date: 21-Mar-2018
Time: 16:58:29
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,5
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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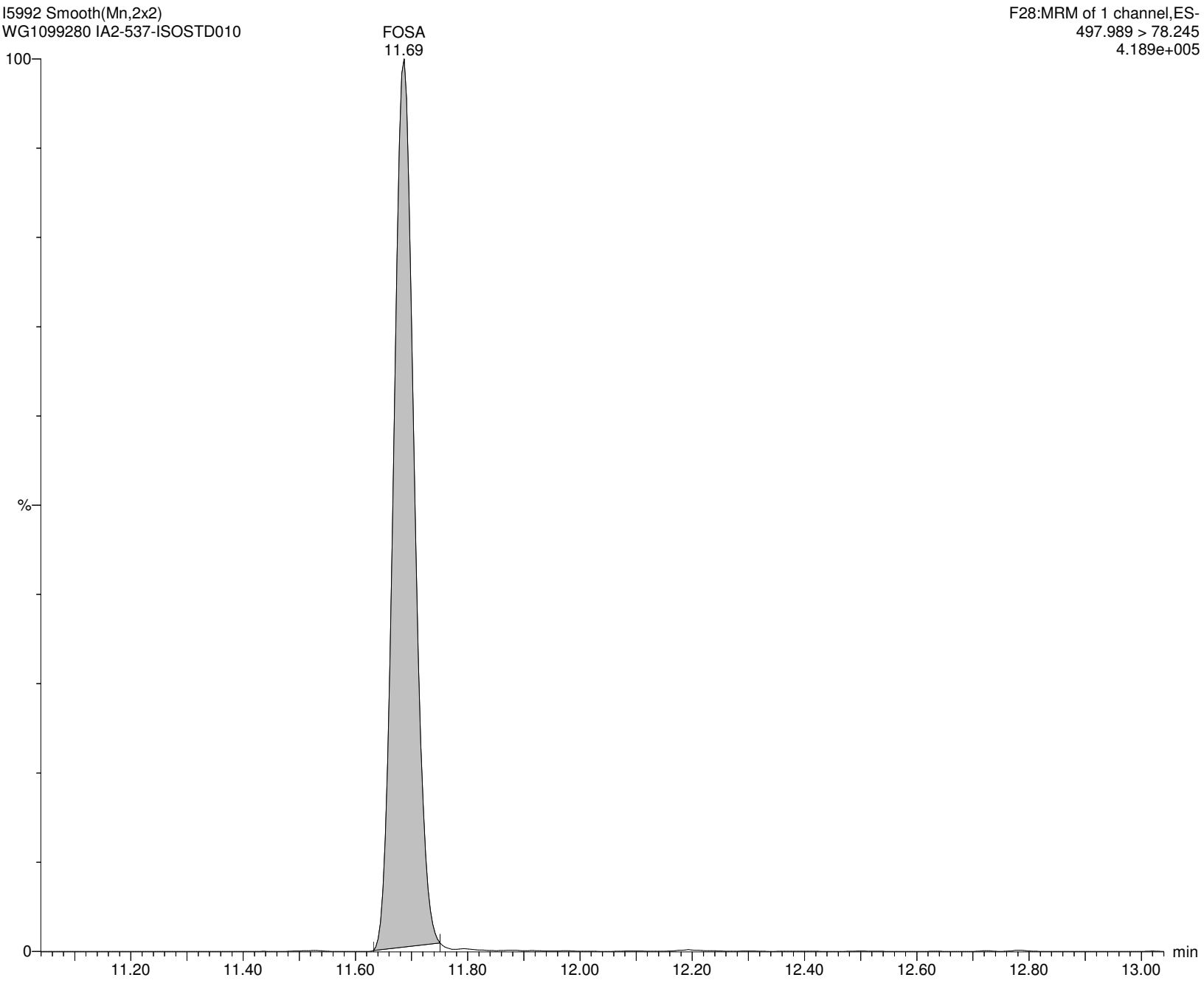

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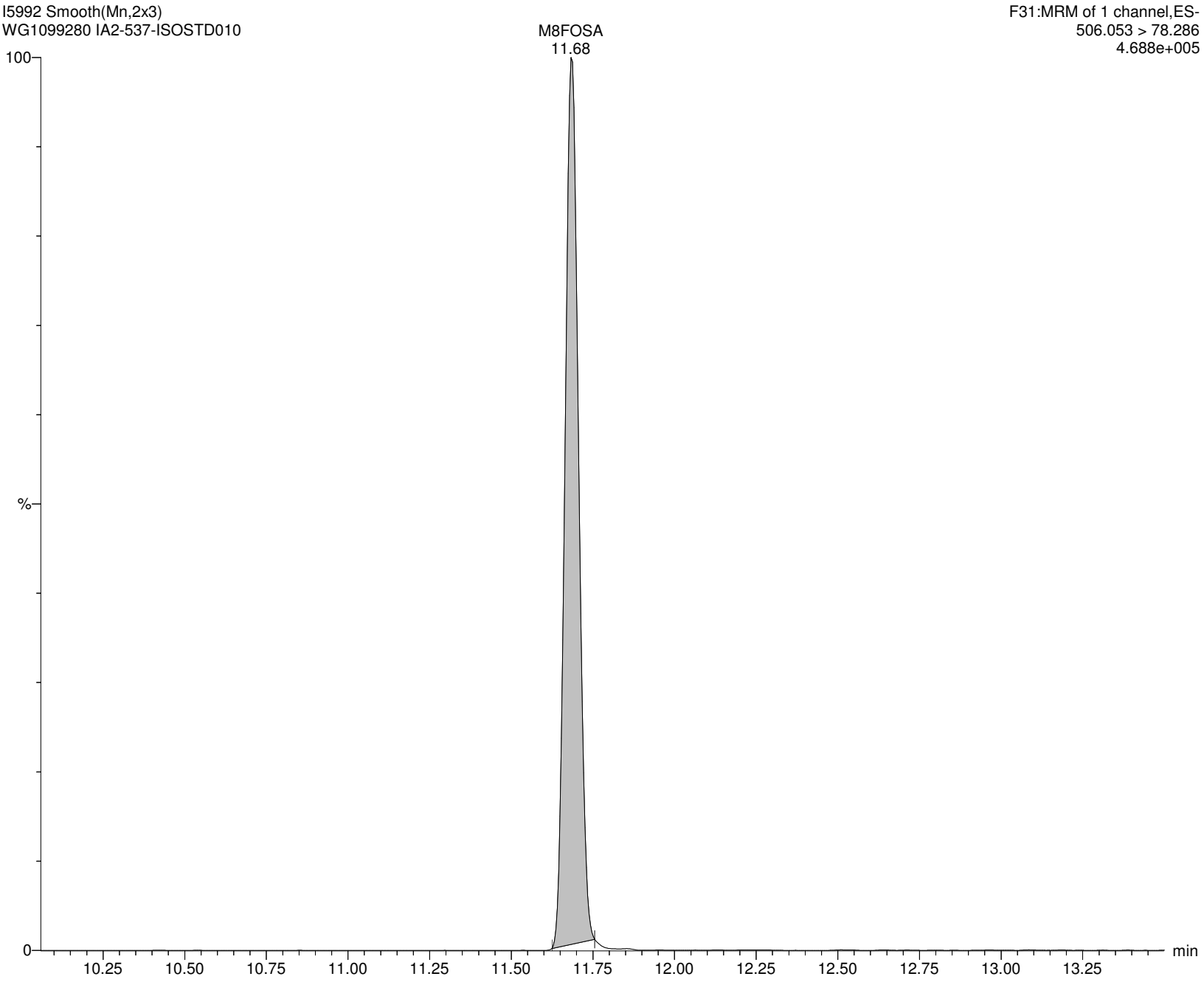

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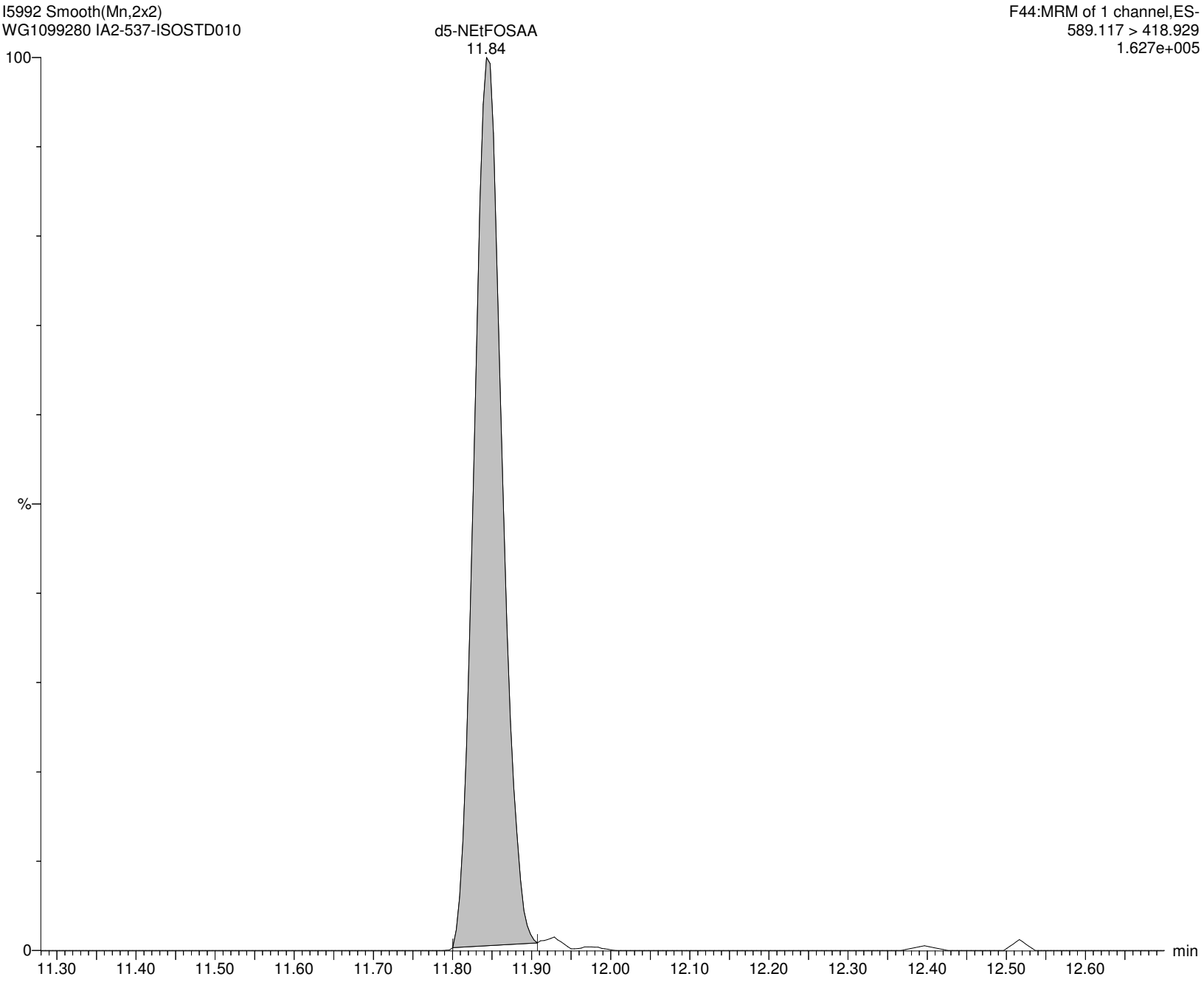

all concentration units in (ng/mL)

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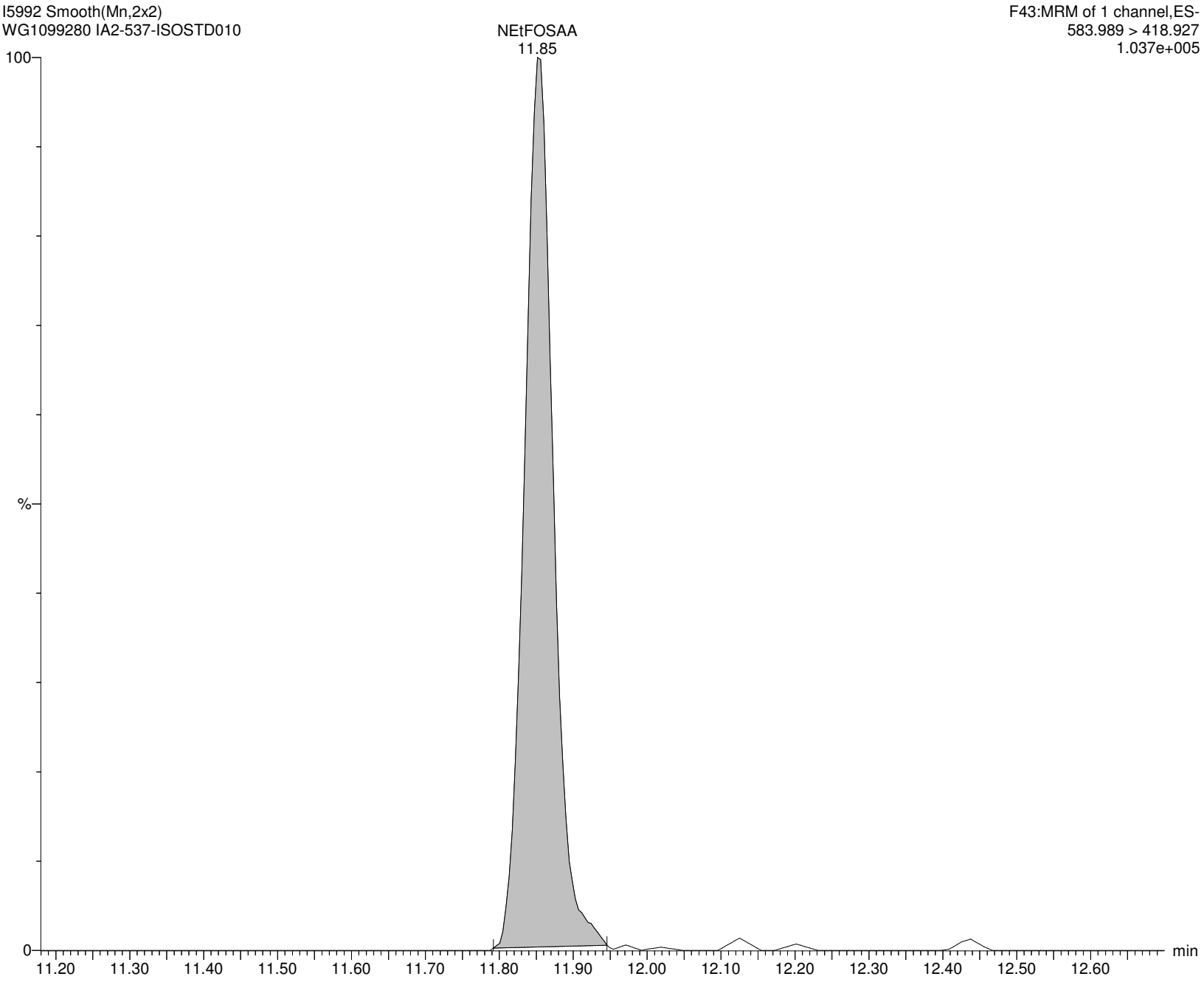

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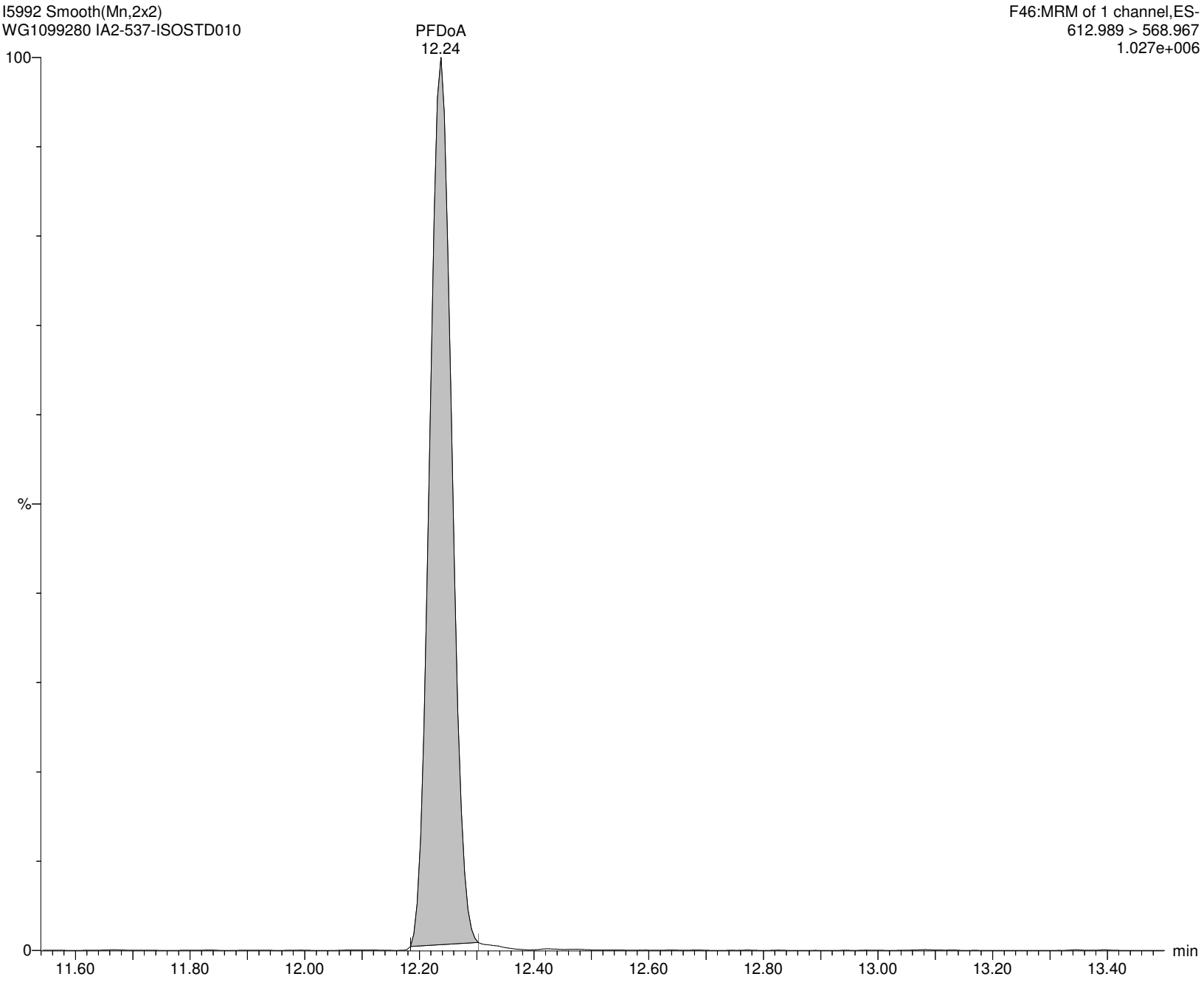

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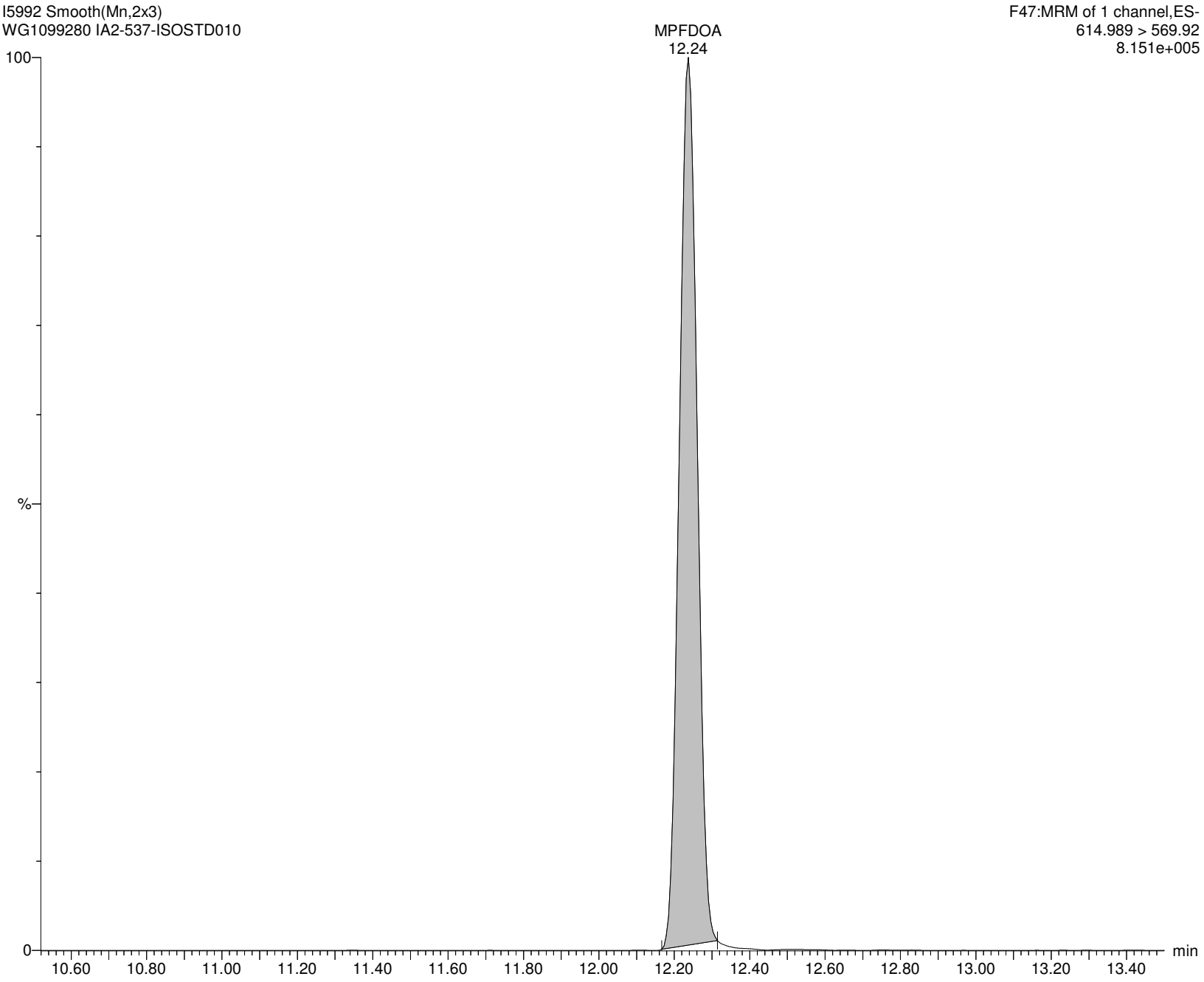

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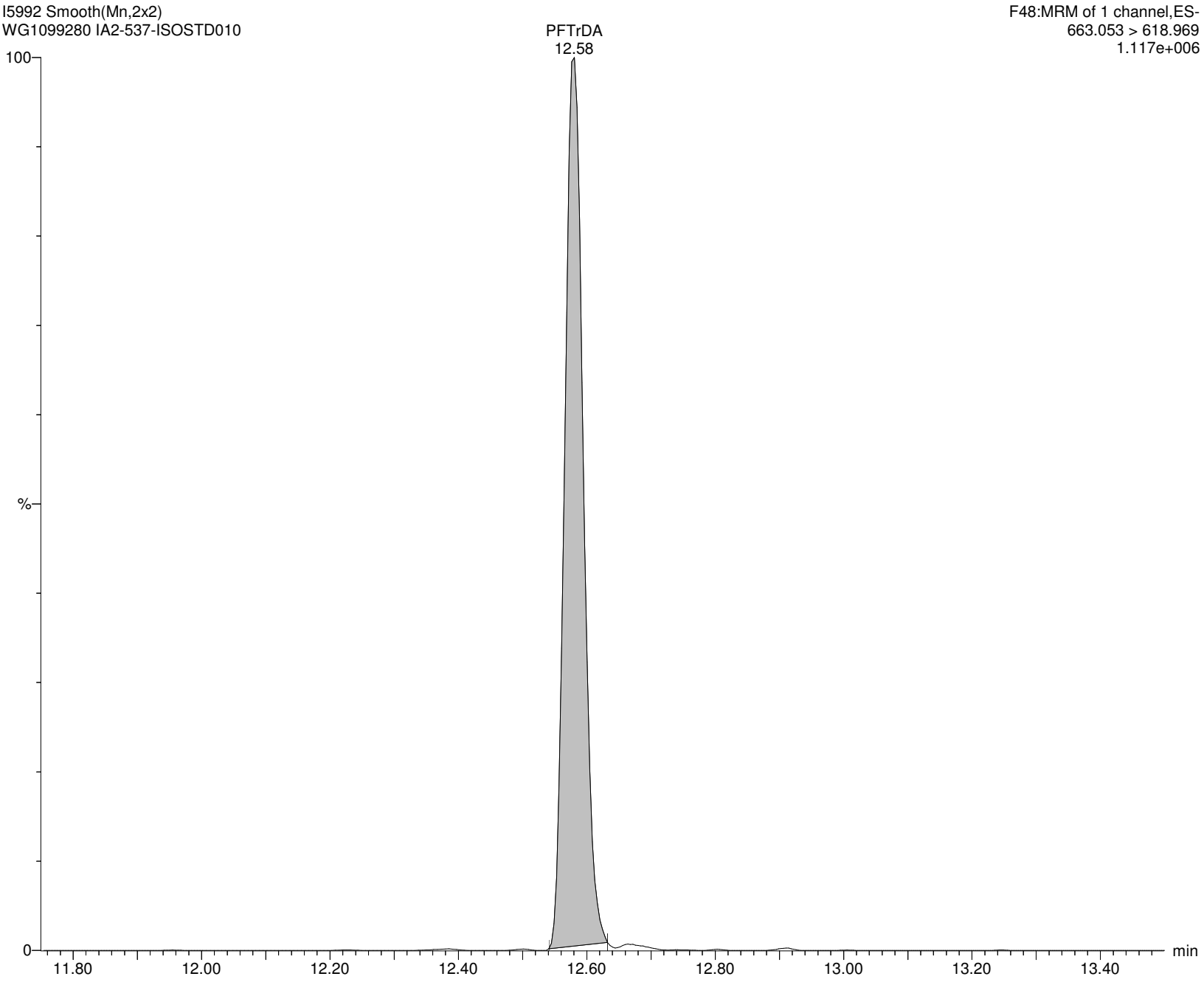

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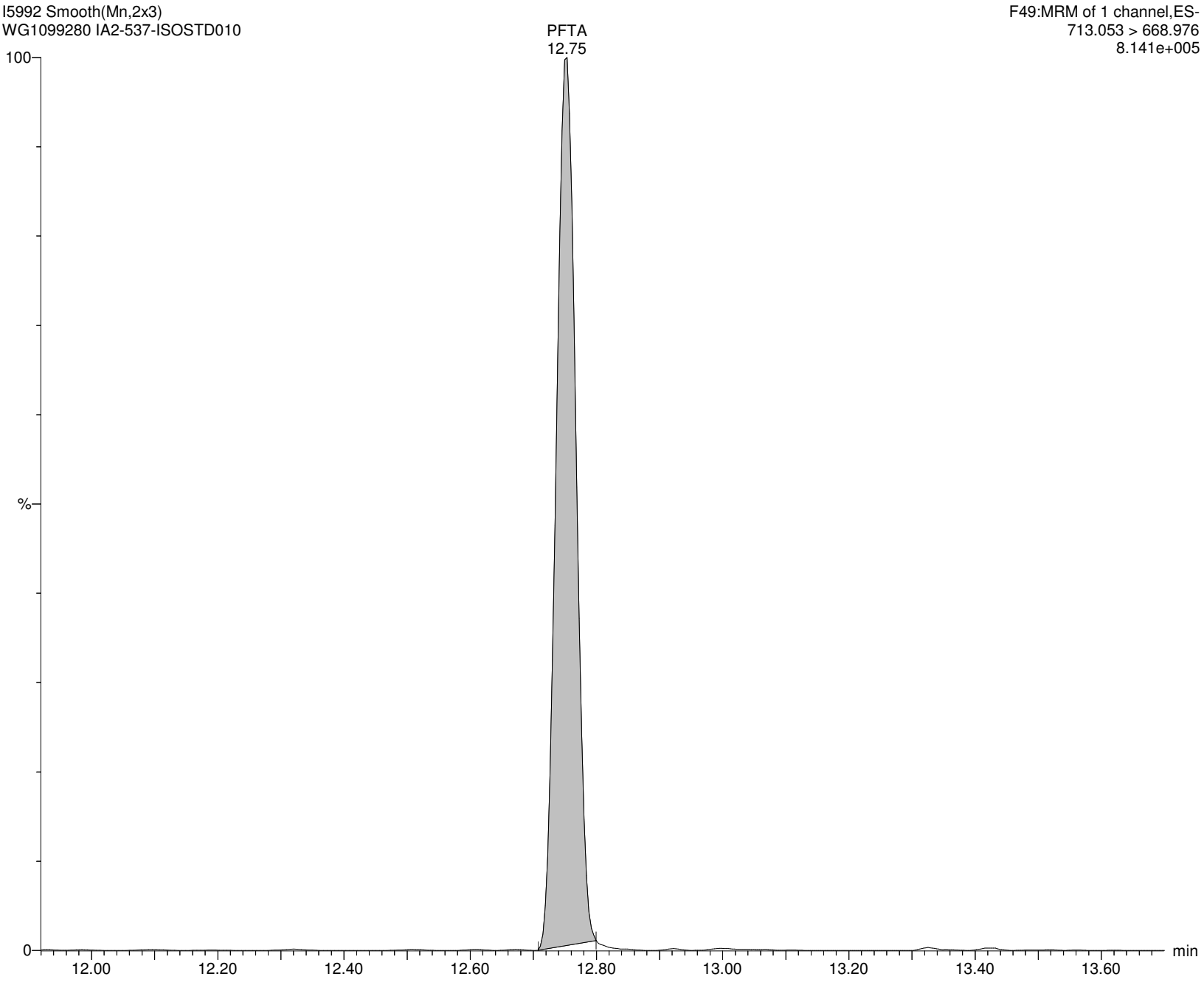

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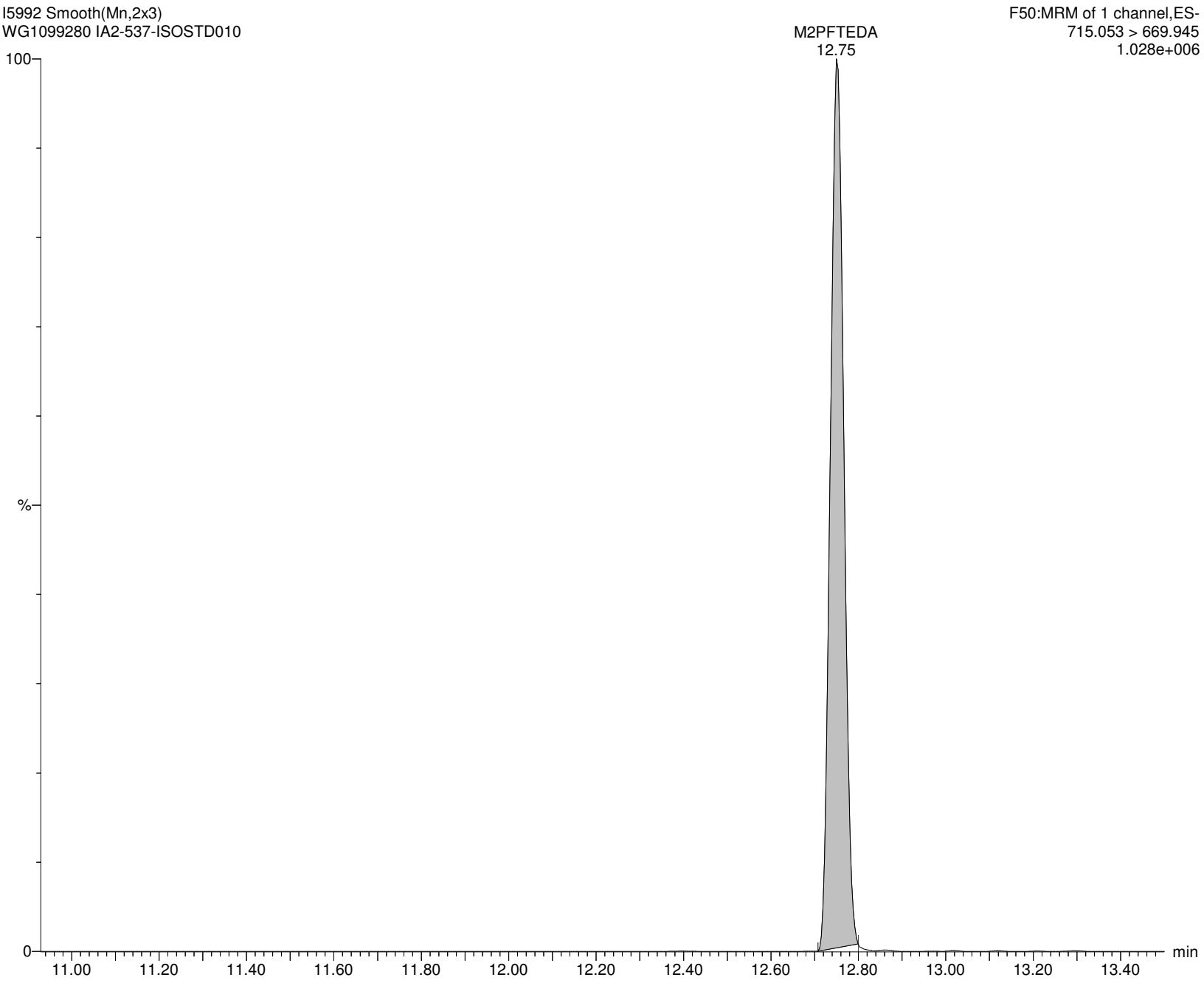

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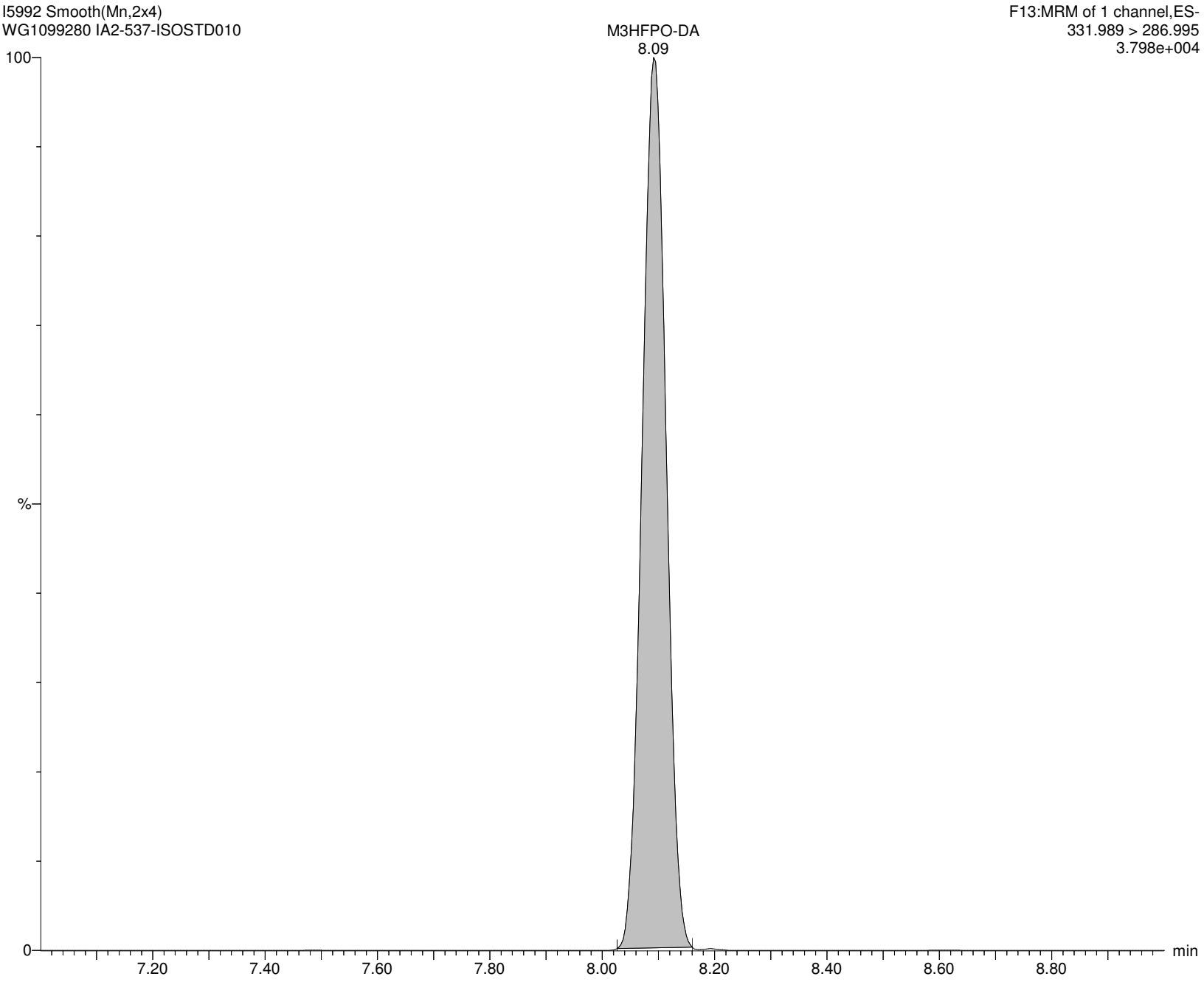

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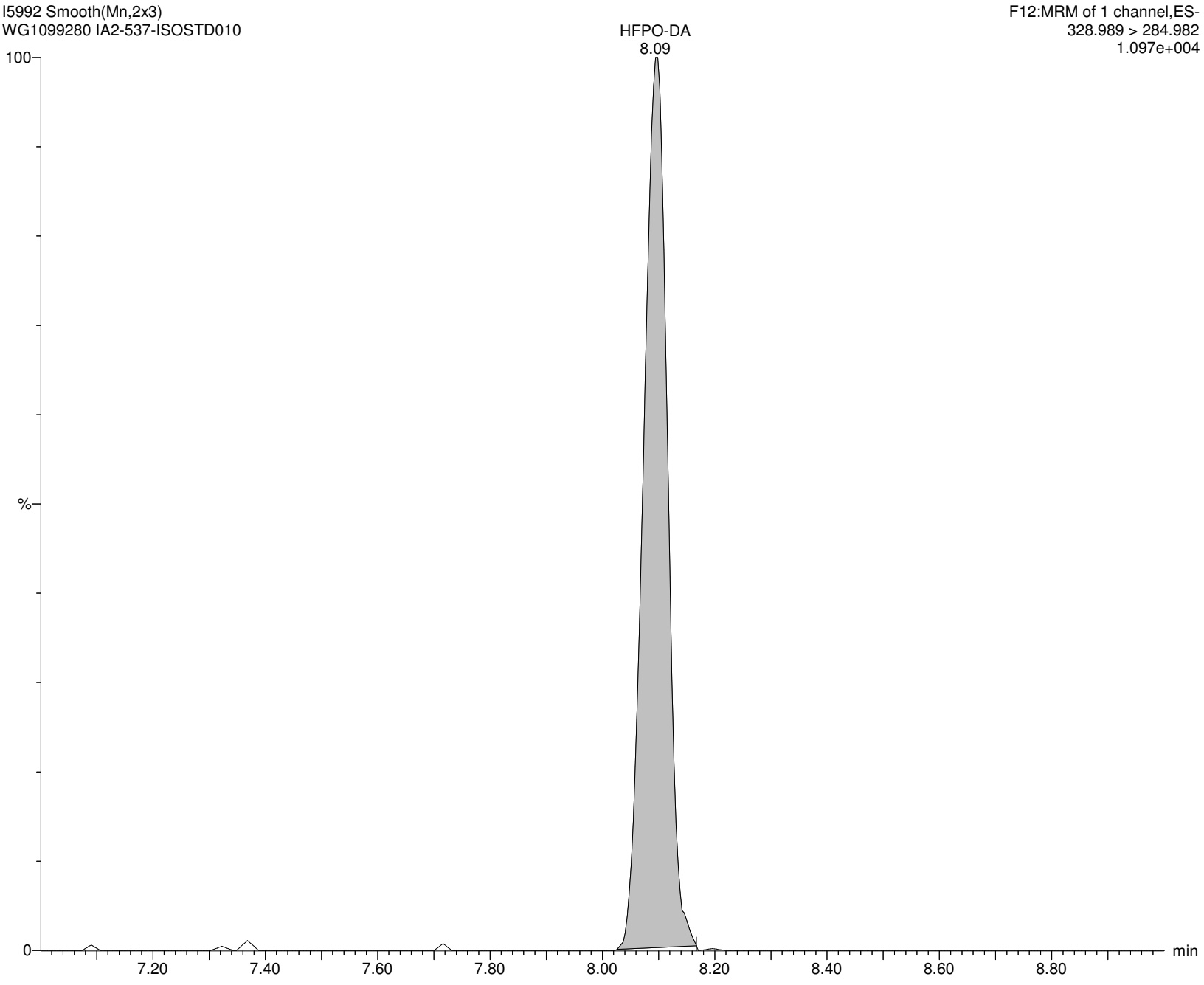

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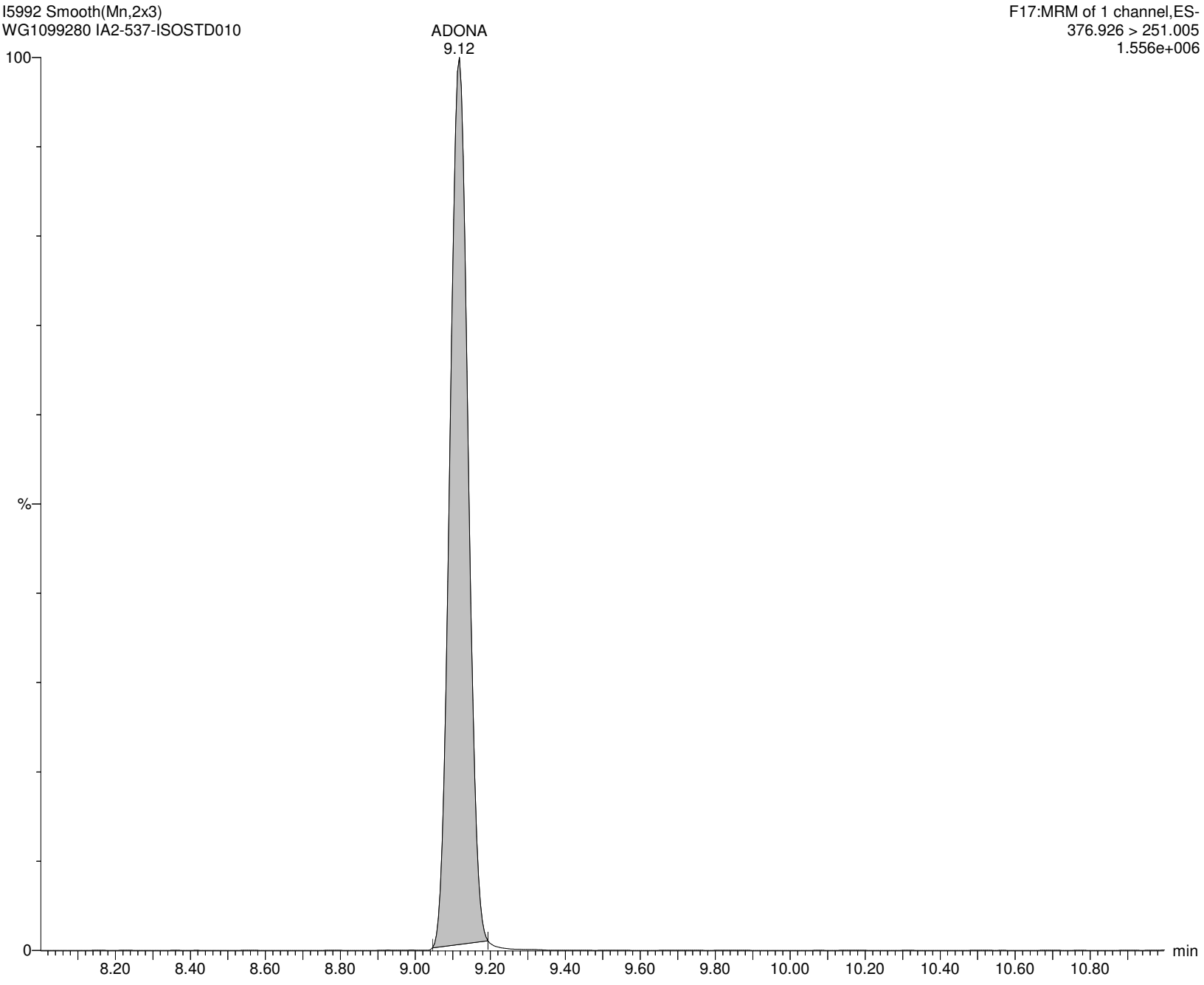

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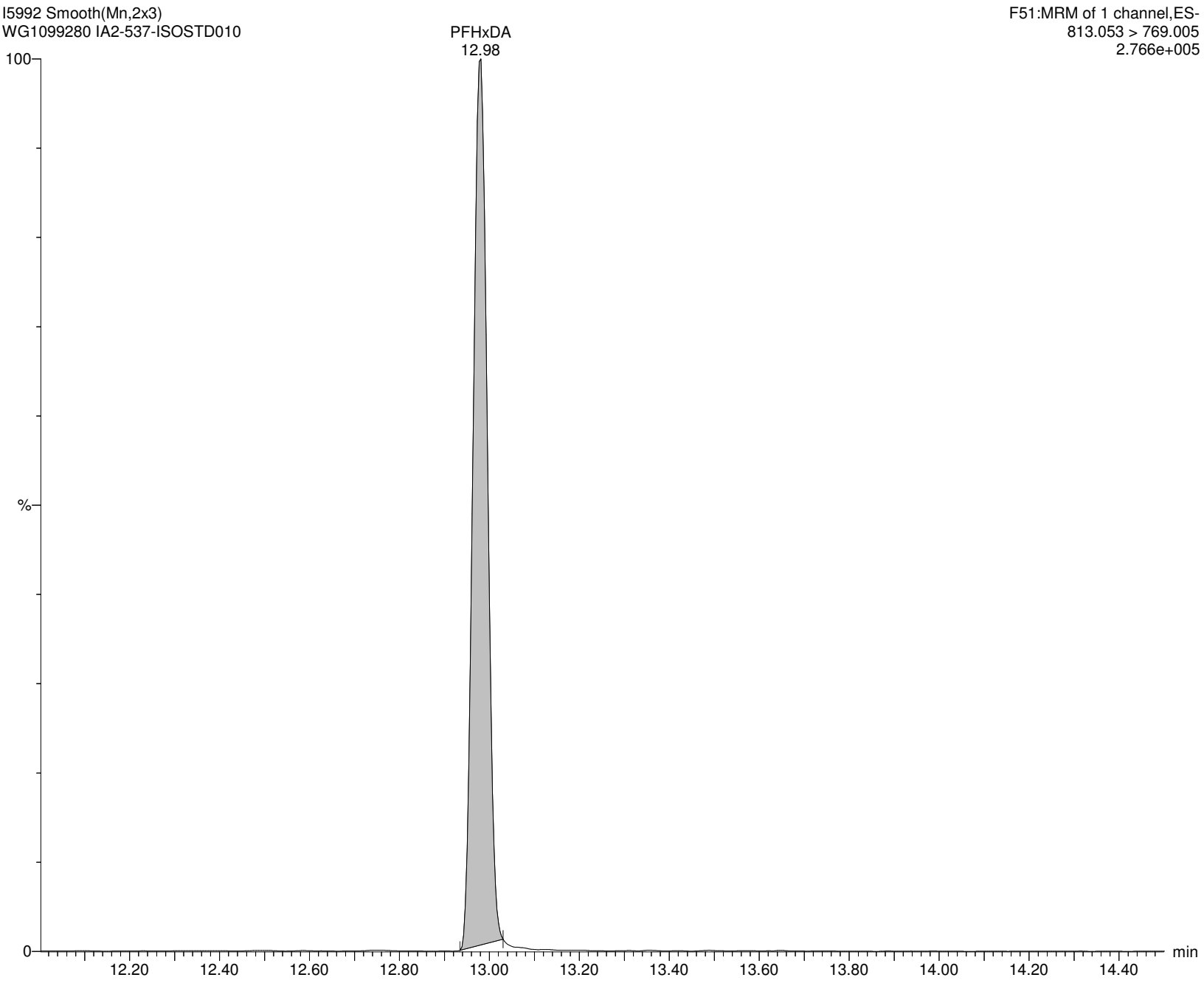

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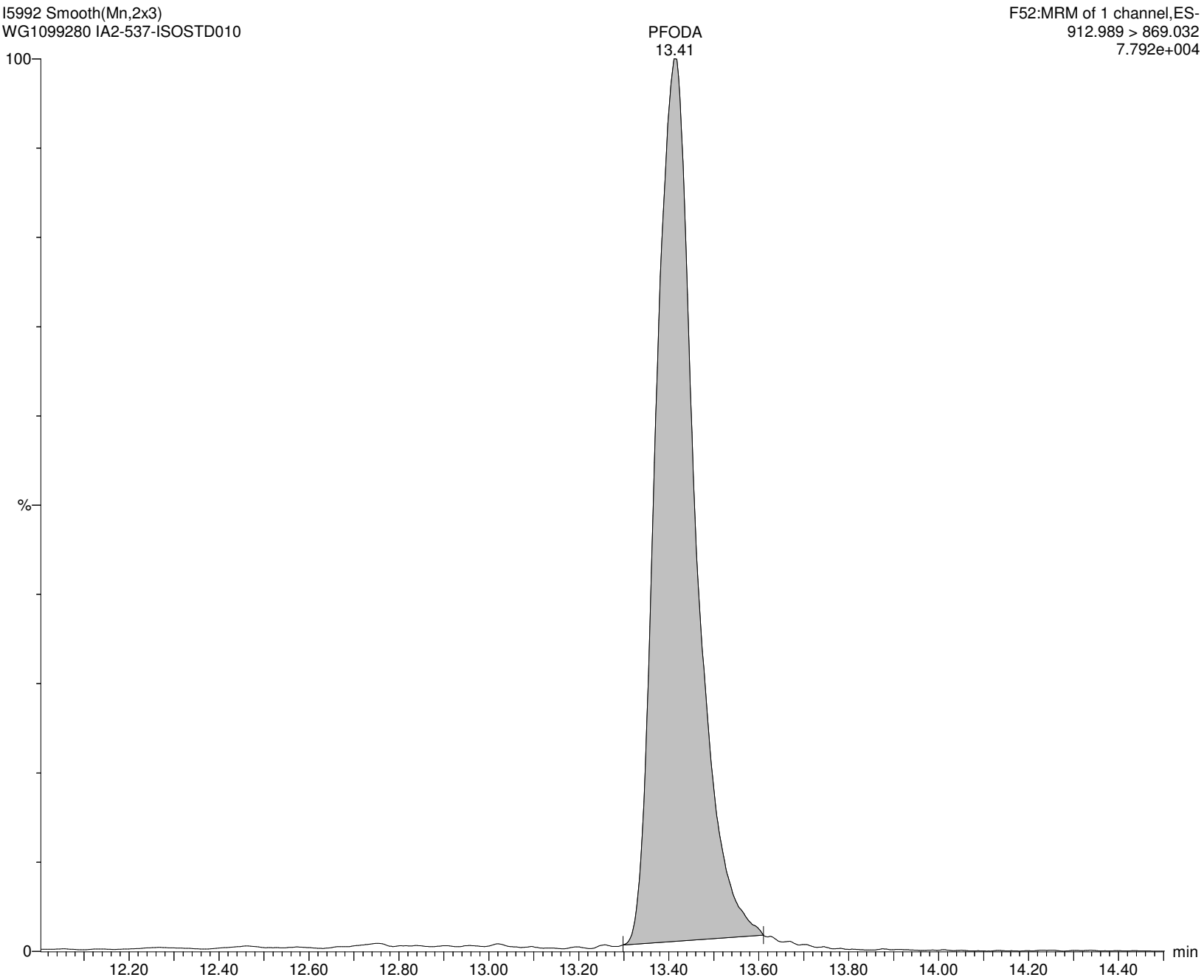

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ID: IA2-537-ISOSTD050
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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	225857		57.099		na	114.2
2	M3PFBA	INT STD	2.26	215.926 > 172.122	47098		9.437		na	94.4
3	MPFBA	INT STD	2.26	216.926 > 172.137	53738		10.210		na	102.1
4	PFPeA	2706-90-3	5.66	262.926 > 219.002	247065		57.137		na	114.3
5	M5PFPEA	INT STD	5.66	TIC	54996		10.138		na	101.4
6	PFBS	375-73-5	6.40	298.989 > 80.295	47577		50.221		na	113.5
7	M3PFBS	INT STD	6.40	301.989 > 80.254	9633		10.838		na	108.4
8	4:2FTS	757124-72-4	7.58	326.926 > 306.957	22301		56.989		na	121.9
9	M2-4:2FTS	INT STD	7.59	328.989 > 80.973	1173		10.232		na	102.3
10	PFHxA	307-24-4	7.66	312.989 > 269.028	290766		57.255		na	114.5
11	M5PFHxA	INT STD	7.65	317.989 > 273.045	56179		9.923		na	99.2
12	PFPeS	2706-91-4	7.99	348.926 > 80.251	43393		50.948		na	108.4
13	PFHpA	375-85-9	8.94	362.926 > 319.014	333952		57.369		na	114.7
14	M4PFHpA	INT STD	8.94	366.926 > 321.979	63319		9.847		na	98.5
15	br-PFHxS	355-46-4	8.87	398.926 > 80.295	8674		10.195		na	107.3
16	L-PFHxS	355-46-4	9.10	398.926 > 80.295	38004		45.692		na	112.8
17	PFHxS	355-46-4		398.926 > 80.295	46677		55.887		na	
18	M3PFHxS	INT STD	9.10	401.926 > 80.317	8812		10.778		na	107.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.87	412.989 > 368.9	350681		58.934		na	117.9
21	M2PFOA	INT STD	9.87	415.032 > 369.968	58822		9.505		na	95.1
22	PFOA	335-67-1		412.989 > 368.9	350681		58.934		na	
23	M8PFOA	INT STD	9.87	420.989 > 375.979	57407		10.049		na	100.5
24	6:2FTS	27619-97-2	9.83	426.989 > 406.921	20293		48.925		na	103.0
25	M2-6:2FTS	INT STD	9.83	428.989 > 408.917	4940		11.414		na	114.1
26	PFHpS	375-92-8	9.96	448.926 > 80.257	26451		53.741		na	113.1
27	PFNA	375-95-1	10.60	462.989 > 418.931	256513		55.270		na	110.5
28	M9PFNA	INT STD	10.60	472.053 > 426.947	55688		10.372		na	103.7
29	br-PFOS	1763-23-1	10.47	498.989 > 80.294	9966		10.113		na	101.1
30	L-PFOS	1763-23-1	10.65	498.989 > 80.294	30263		43.446		na	110.0
31	PFOS	1763-23-1		498.989 > 80.294	40230		53.558		na	
32	M4PFOS	INT STD	10.65	503.032 > 80.306	5415		8.931		na	89.3
33	M8PFOS	INT STD	10.65	507.053 > 80.294	7114		10.759		na	107.6
34	PFDA	335-76-2	11.22	513.053 > 468.906	227167		59.394		na	118.8
35	M2PFDA	INT STD	11.22	515.053 > 469.934	37397		8.920		na	89.2
36	M6PFDA	INT STD	11.22	519.053 > 473.931	44989		9.962		na	99.6
37	8:2FTS	39108-34-4	11.21	526.989 > 506.946	13078		56.186		na	117.1
38	M2-8:2FTS	INT STD	11.21	529.117 > 80.953	684		10.236		na	102.4
39	PFNS	68259-12-1	11.25	548.989 > 80.249	30147		57.291		na	119.4

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ID: IA2-537-ISOSTD050
Name: I5993
Date: 21-Mar-2018
Time: 17:15:03
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.56	573.096 > 418.987	6206		10.749		na	107.5
41	NMeFOSAA	2355-31-9	11.56	570.053 > 418.917	36547		56.056		na	112.1
42	PFUnA	2058-94-8	11.77	562.989 > 518.903	219021		53.248		na	106.5
43	M7-PFUDA	INT STD	11.76	570.053 > 524.923	39962		10.816		na	108.2
44	PFDS	335-77-3	11.78	598.926 > 80.314	33259		50.278		na	104.2
45	FOSA	754-91-6	11.69	497.989 > 78.245	99640		56.814		na	113.6
46	M8FOSA	INT STD	11.69	506.053 > 78.286	21477		10.779		na	107.8
47	d5-NEtFOSAA	INT STD	11.84	589.117 > 418.929	6044		11.049		na	110.5
48	NEtFOSAA	2991-50-6	11.85	583.989 > 418.927	29614		53.369		na	106.7
49	PFDoA	307-55-1	12.24	612.989 > 568.967	236716		59.923		na	119.8
50	MPFDOA	INT STD	12.24	614.989 > 569.92	40352		10.555		na	105.5
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	196794		52.748		na	105.5
52	PFTA	376-06-7	12.75	713.053 > 668.976	144043		54.574		na	109.1
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	30944		10.296		na	103.0
54	M3HFPO-DA	INT STD	8.09	331.989 > 286.995	2914		259.121		na	129.6
55	HFPO-DA	13252-13-6	8.09	328.989 > 284.982	4952		996.037		na	99.6
56	ADONA	958445-44-8	9.12	376.926 > 251.005	434517		50.744		na	107.3
57	PFHxDA		12.98	813.053 > 769.005	59699		54.794		na	109.6
58	PFODA		13.41	912.989 > 869.032	25671		45.589		na	91.2

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
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Name: I5993
ID: IA2-537-ISOSTD050
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Vial: 2:A,6
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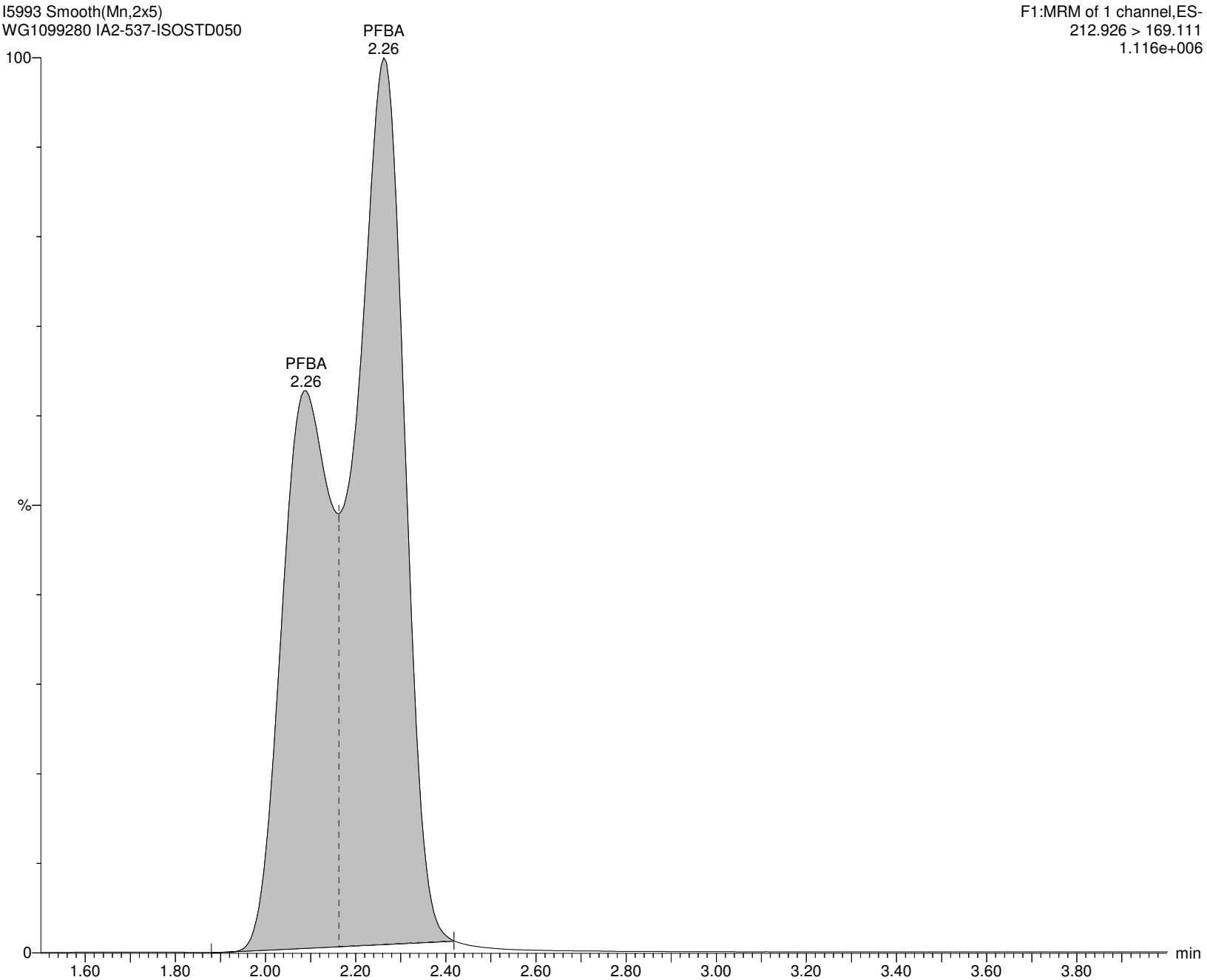

all concentration units in (ng/mL)

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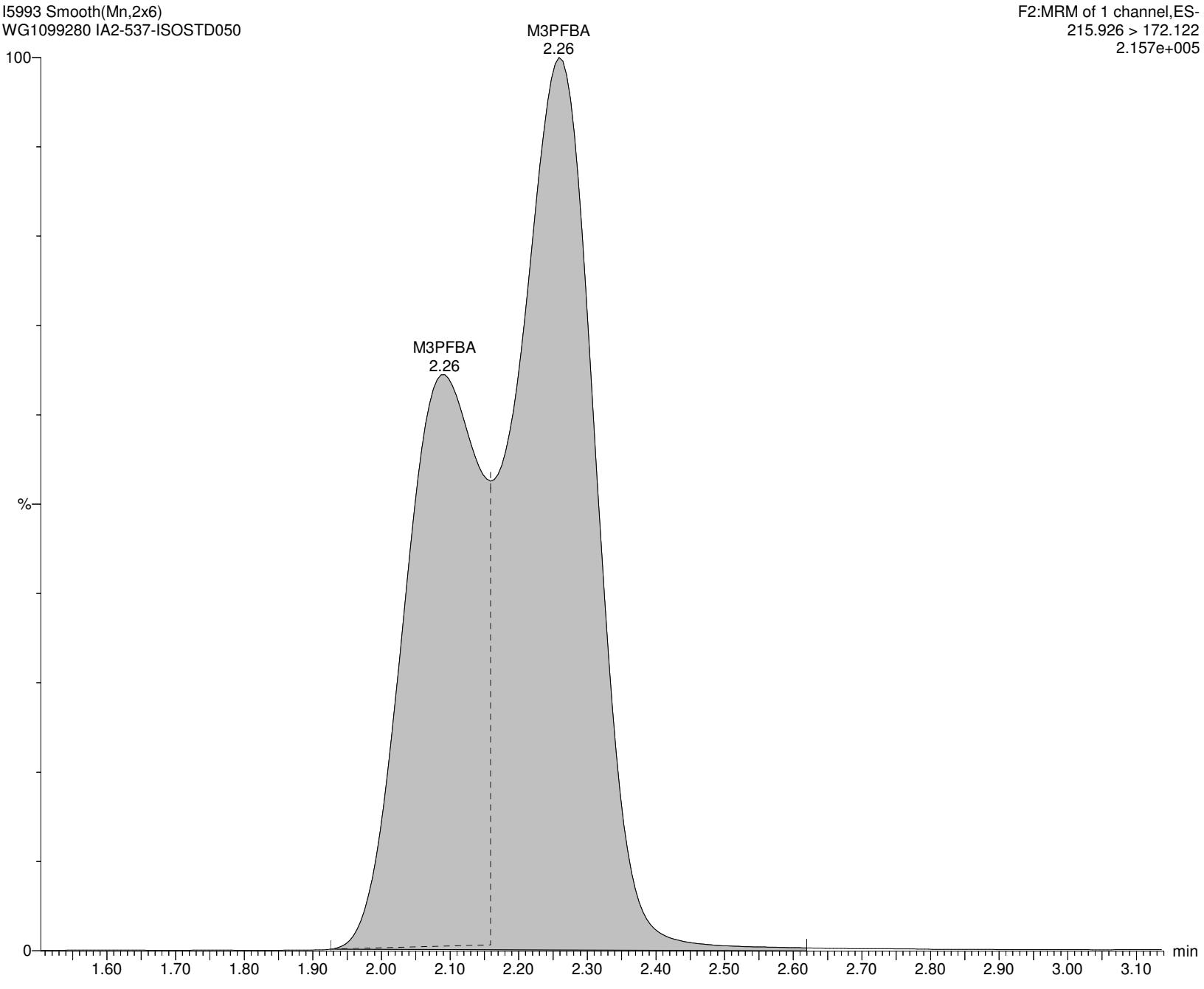

all concentration units in (ng/mL)

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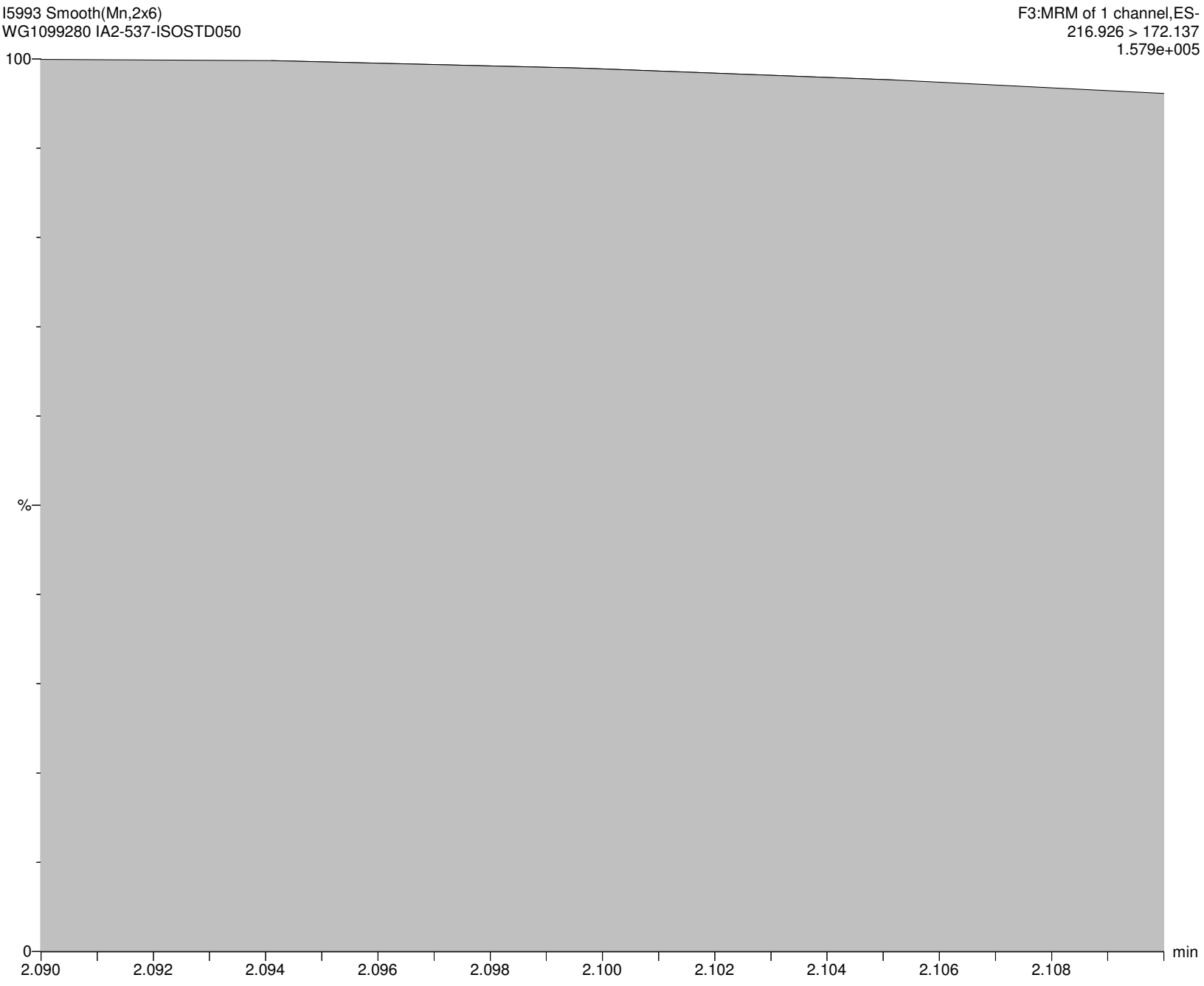

all concentration units in (ng/mL)

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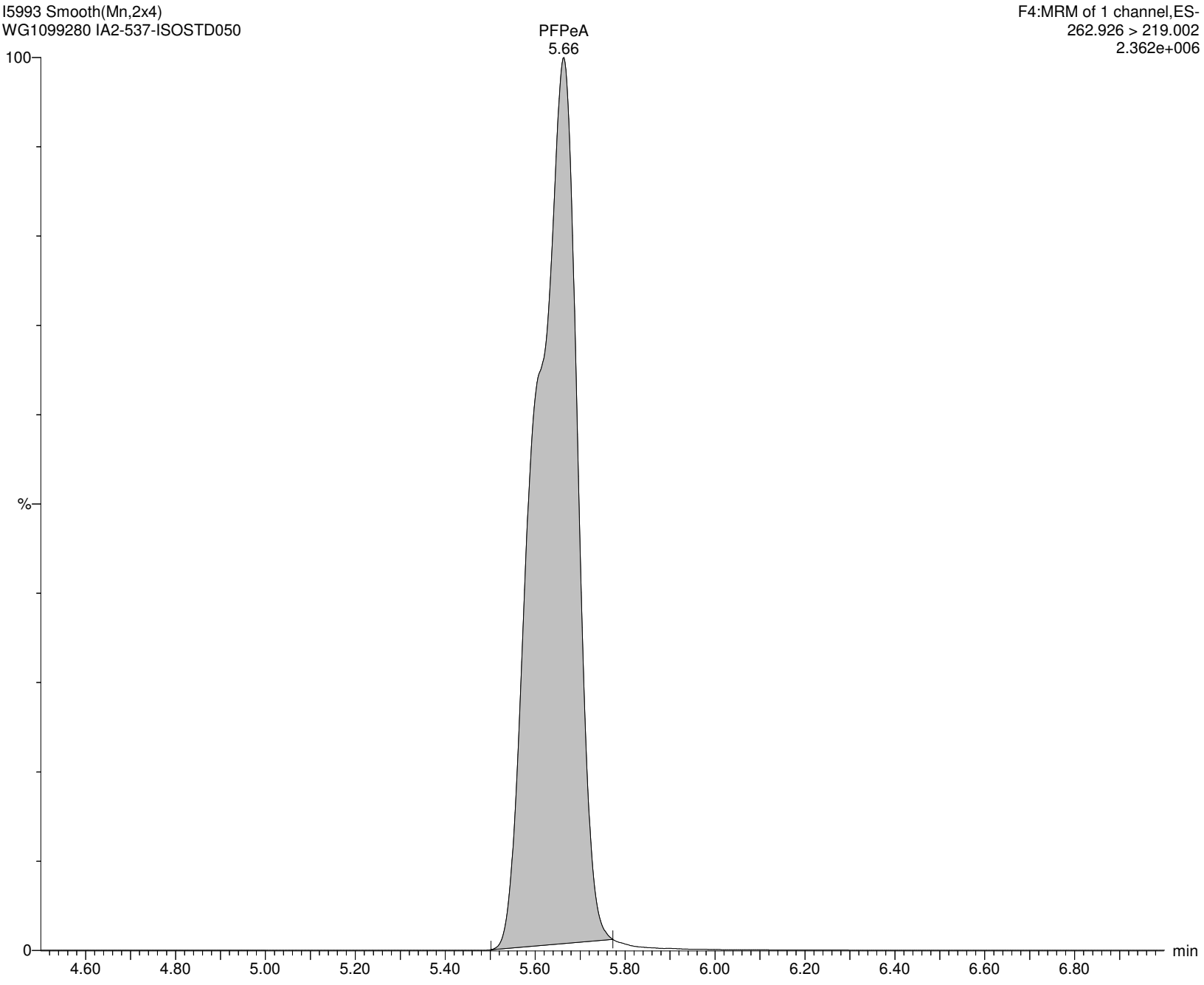

all concentration units in (ng/mL)

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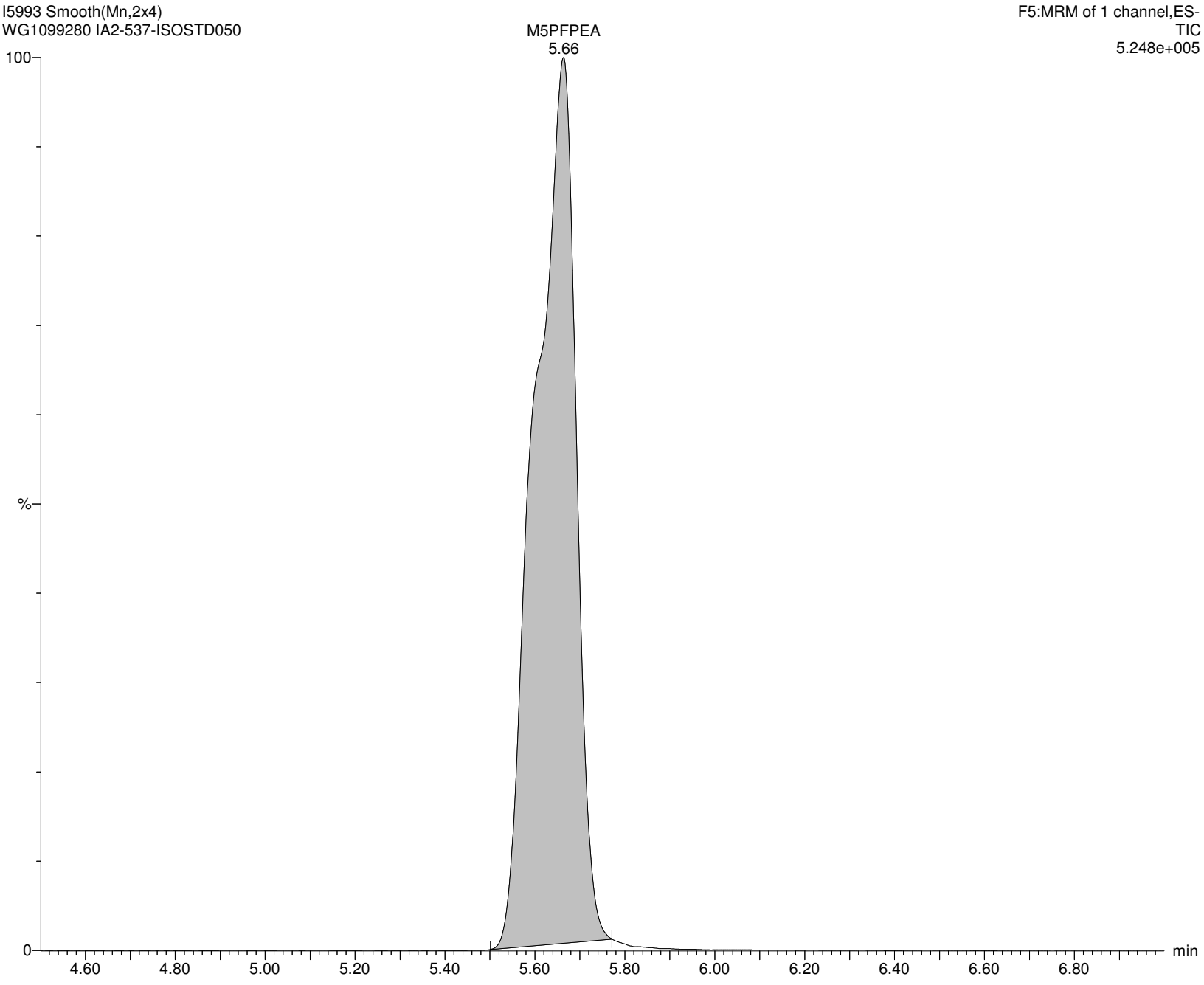

all concentration units in (ng/mL)

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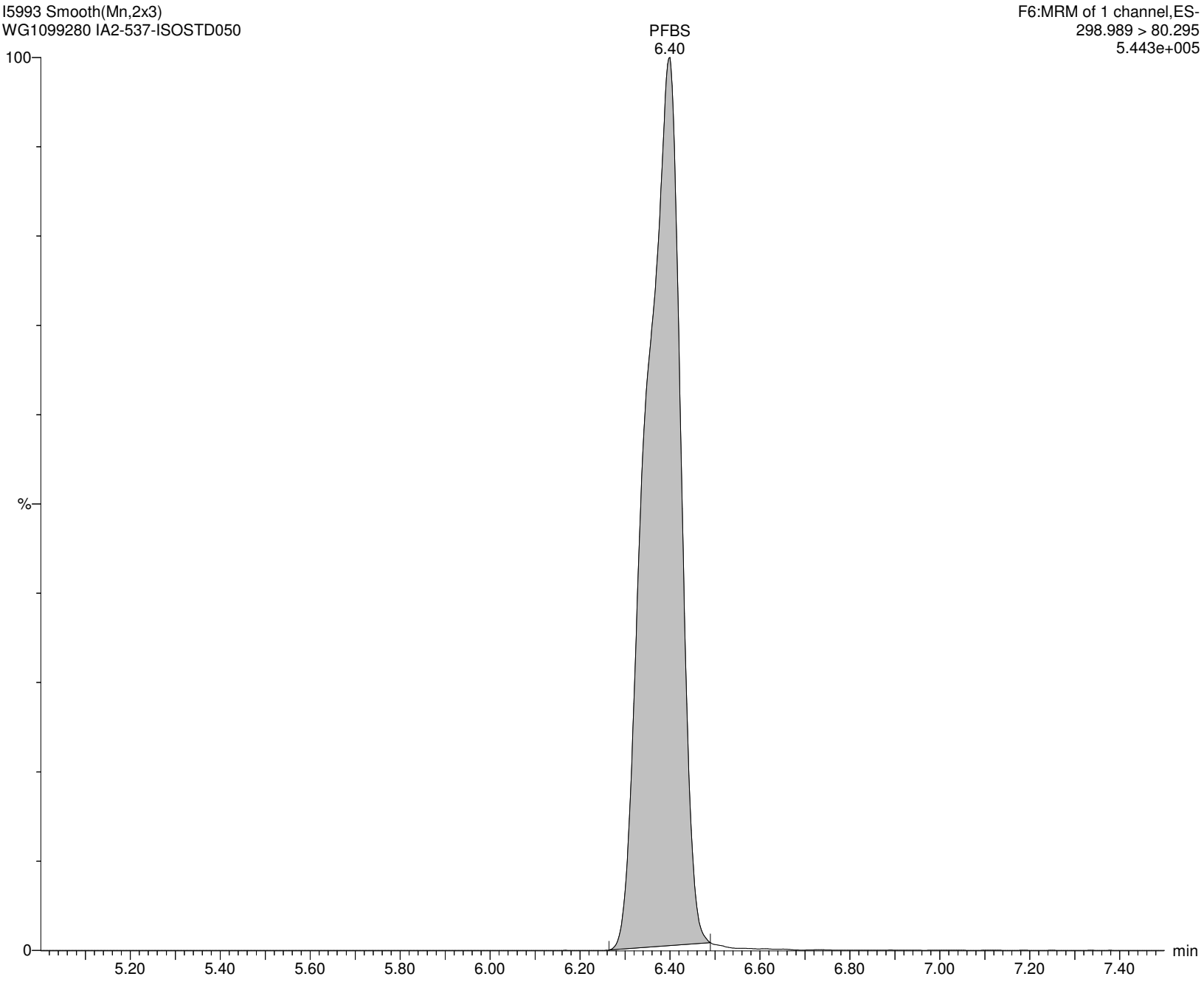

all concentration units in (ng/mL)

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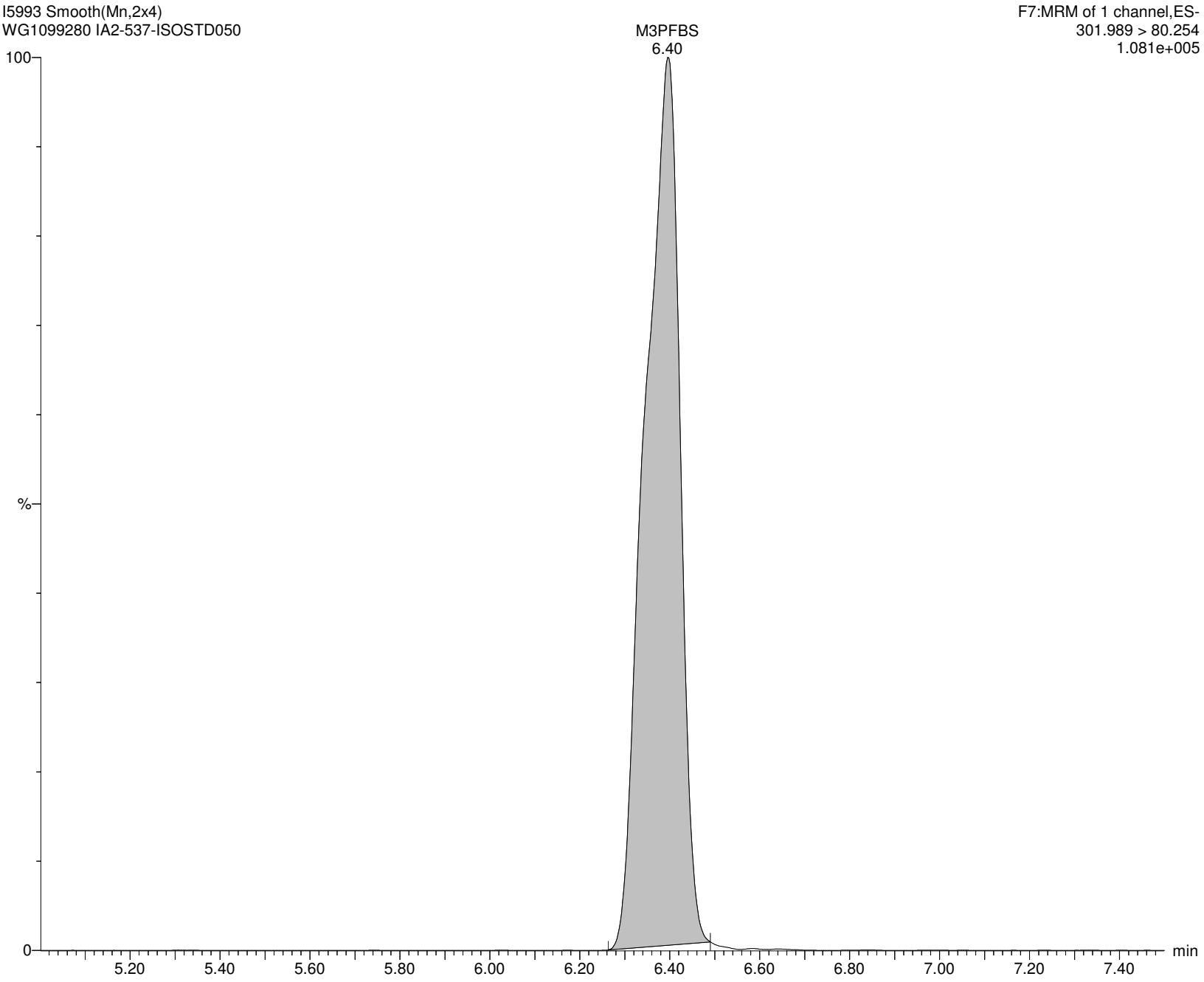

all concentration units in (ng/mL)

Alpha Analytical Inc.
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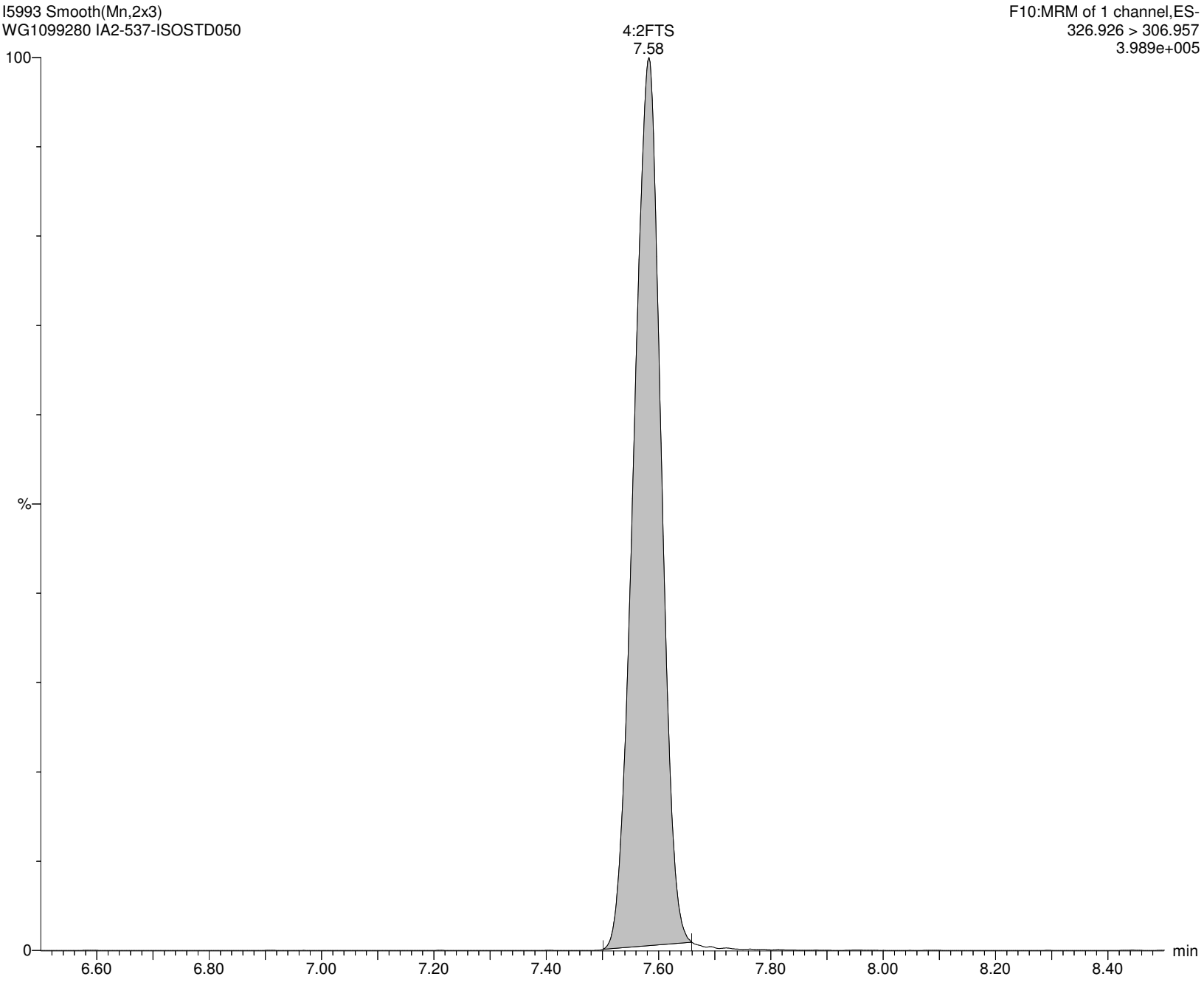

all concentration units in (ng/mL)

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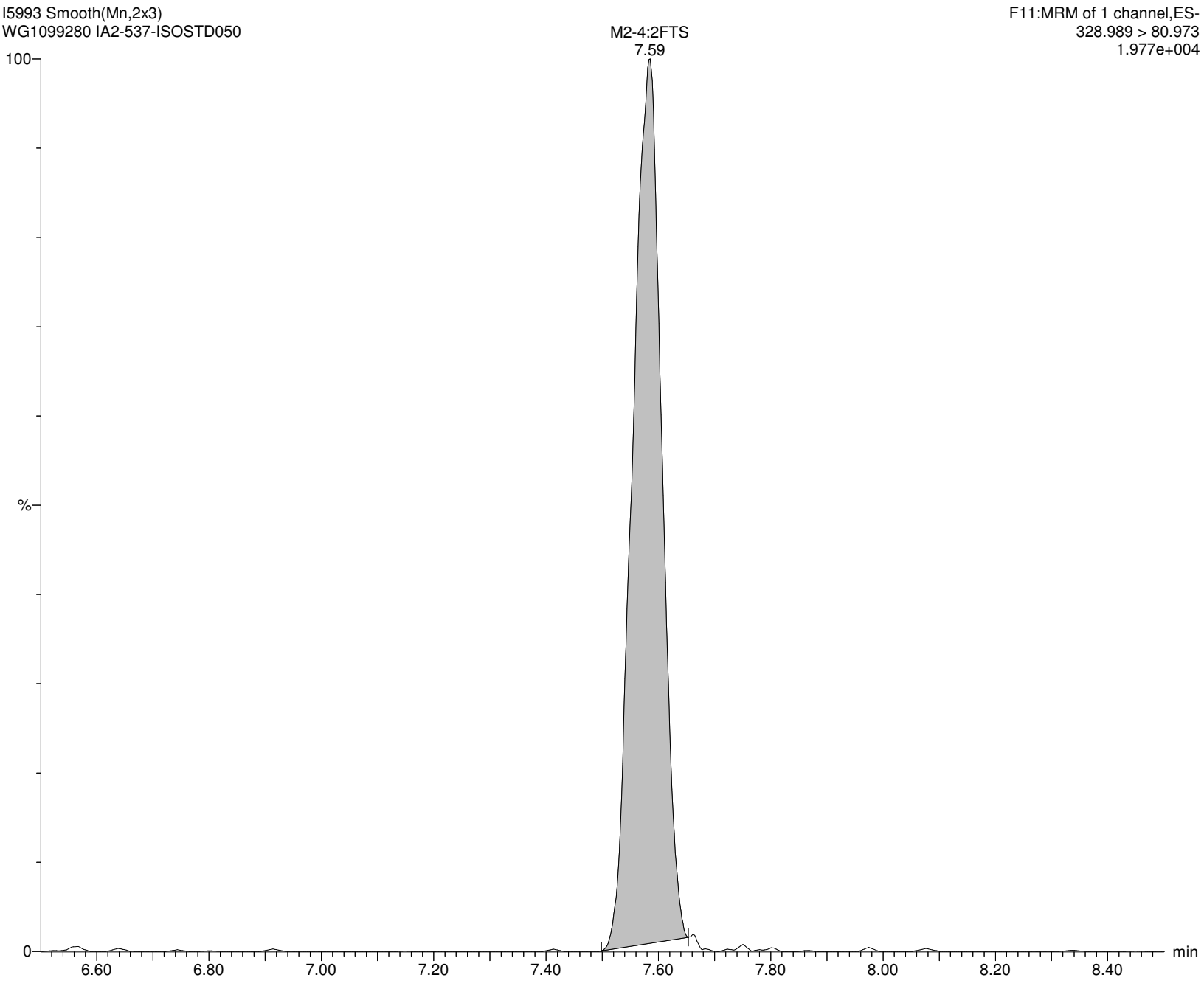

all concentration units in (ng/mL)

Alpha Analytical Inc.
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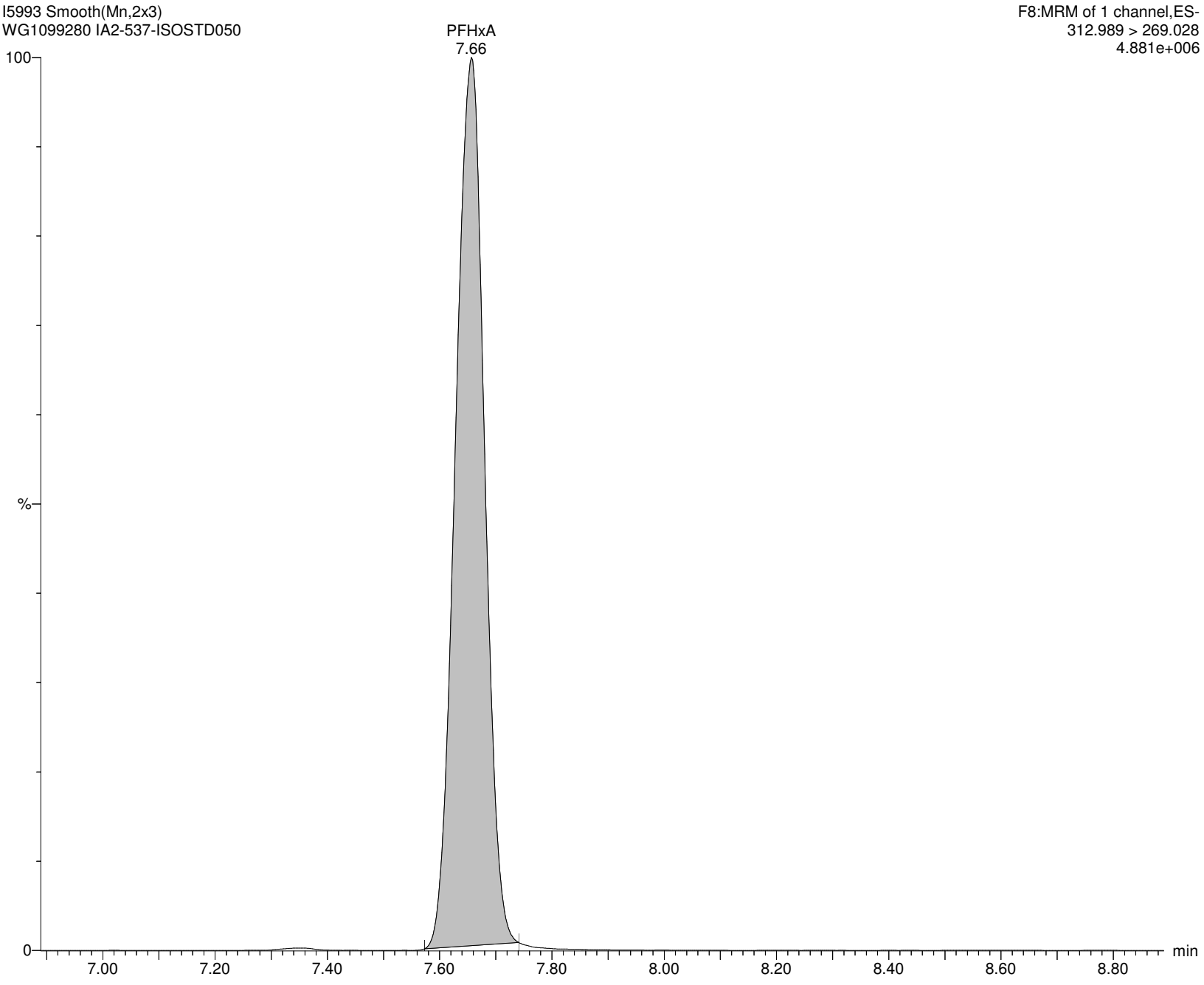

all concentration units in (ng/mL)

Alpha Analytical Inc.
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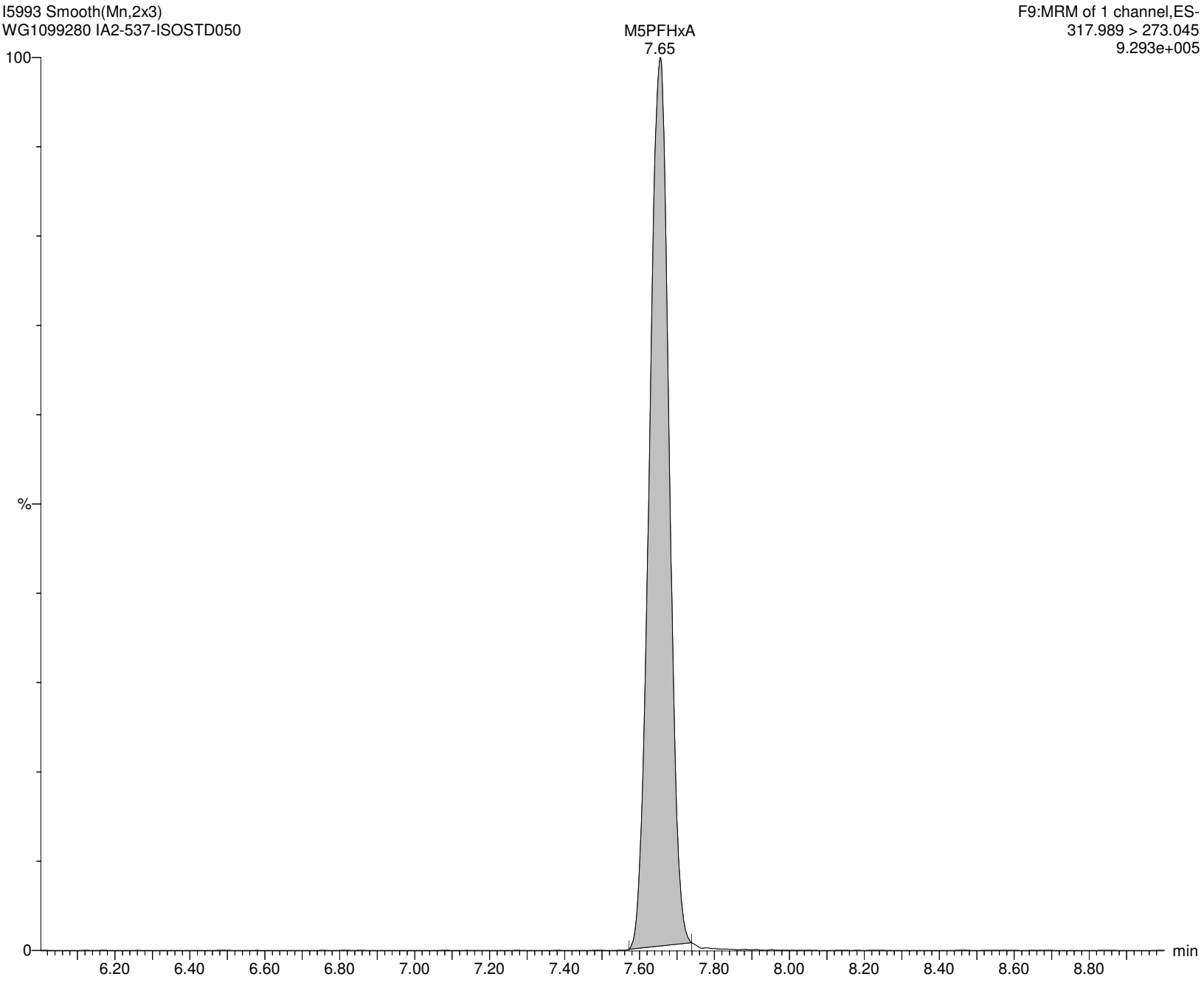

all concentration units in (ng/mL)

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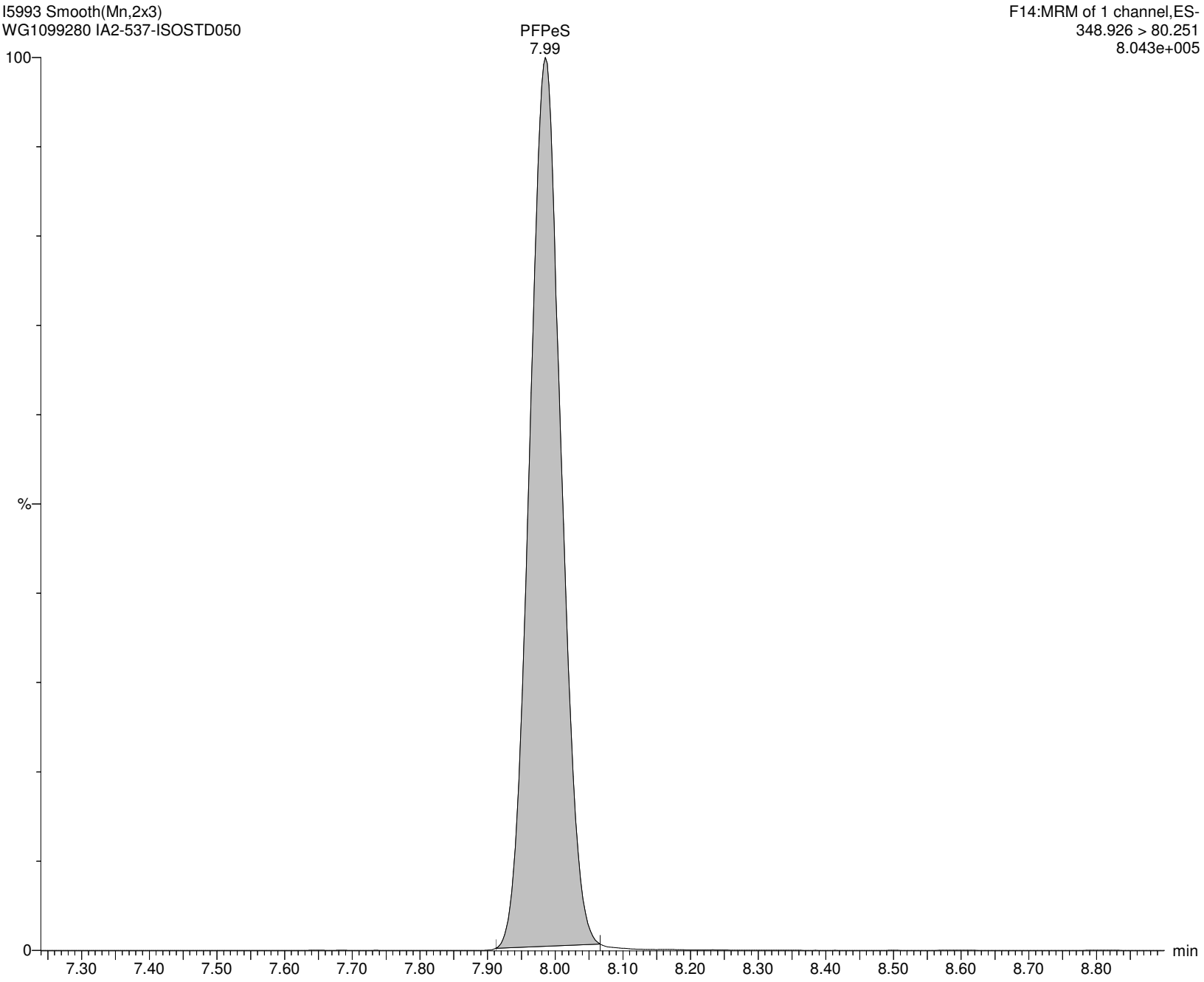

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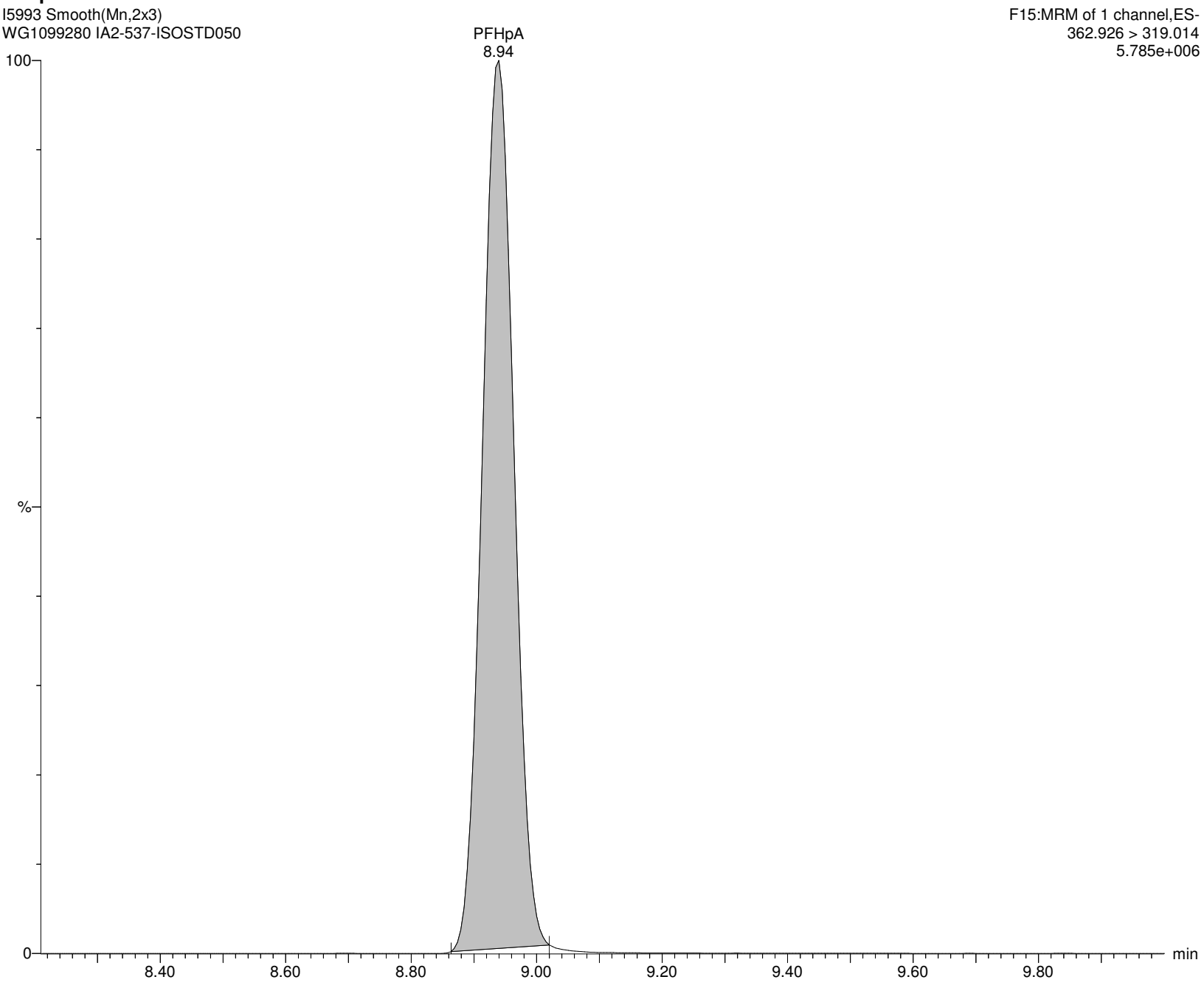

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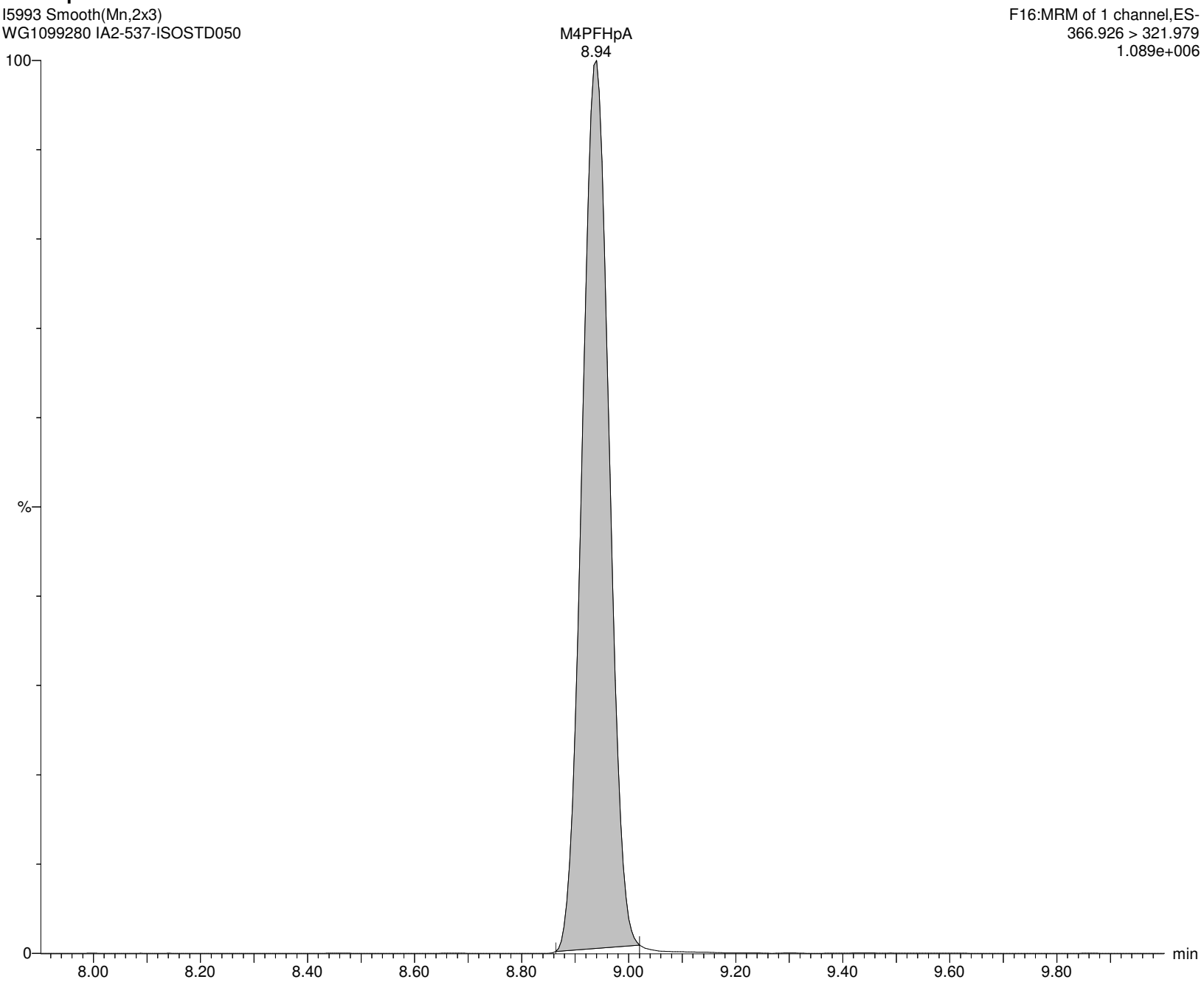

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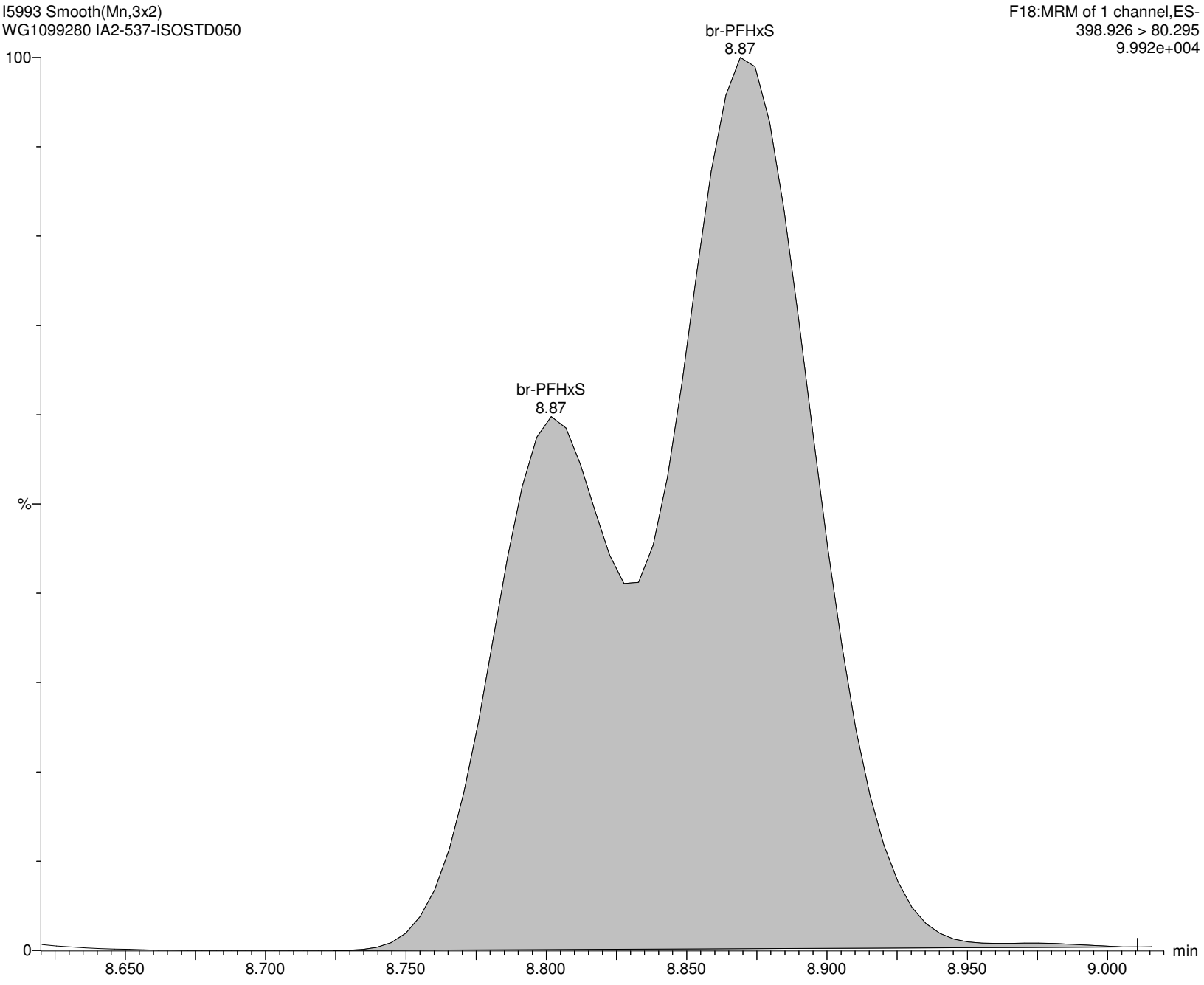

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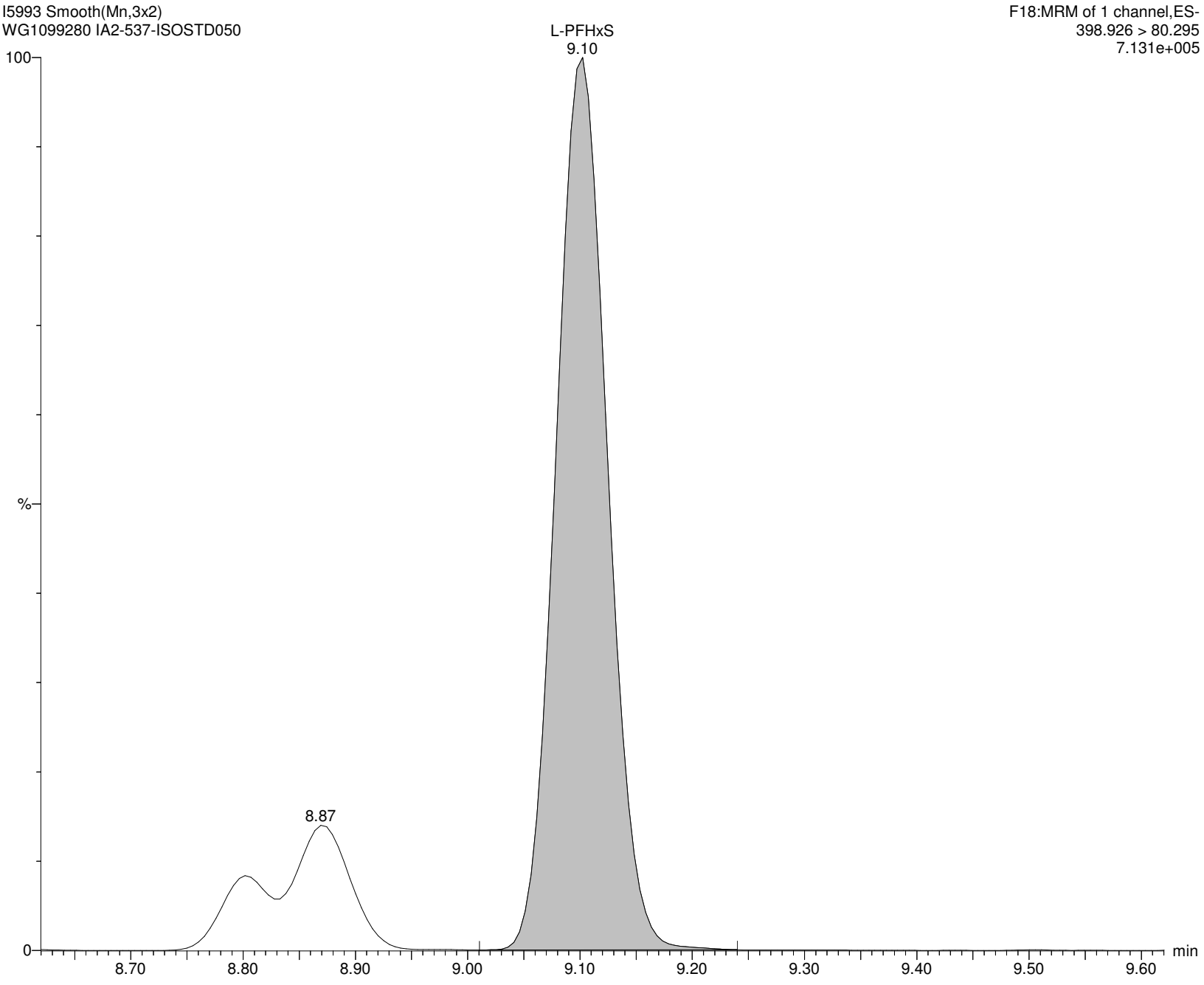

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ID: IA2-537-ISOSTD050
Date: 21-Mar-2018
Time: 17:15:03
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
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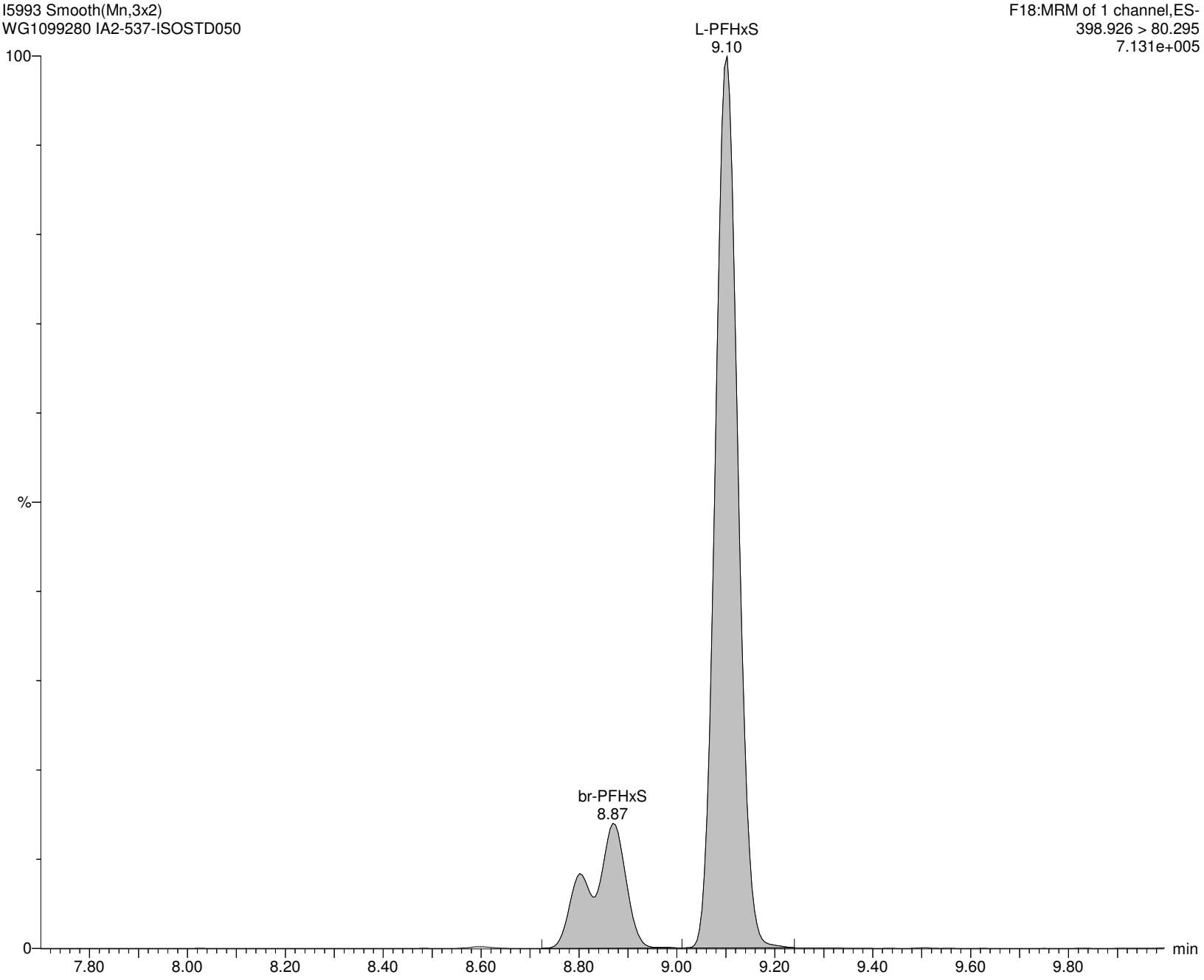

all concentration units in (ng/mL)

Alpha Analytical Inc.
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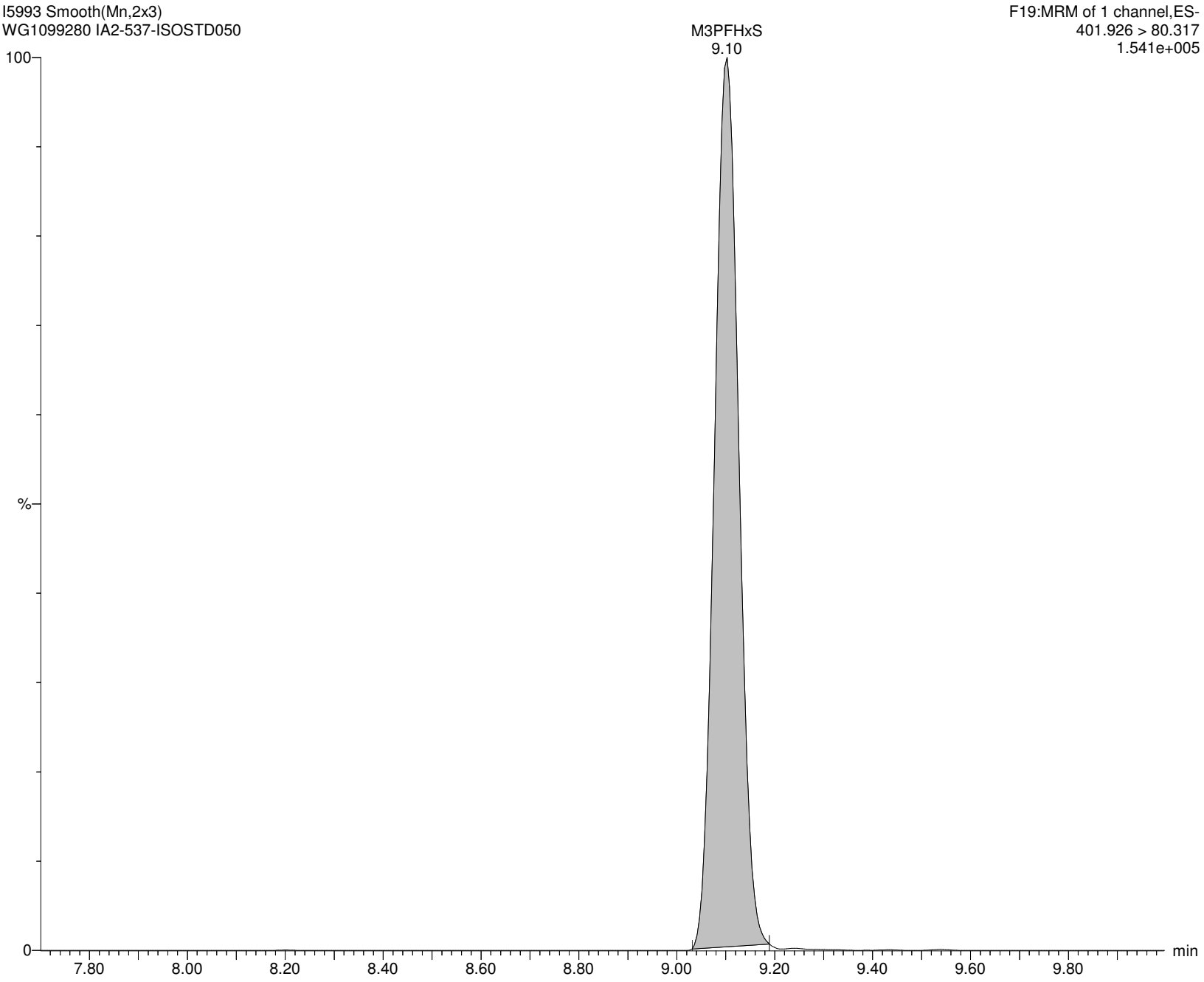

all concentration units in (ng/mL)

Alpha Analytical Inc.
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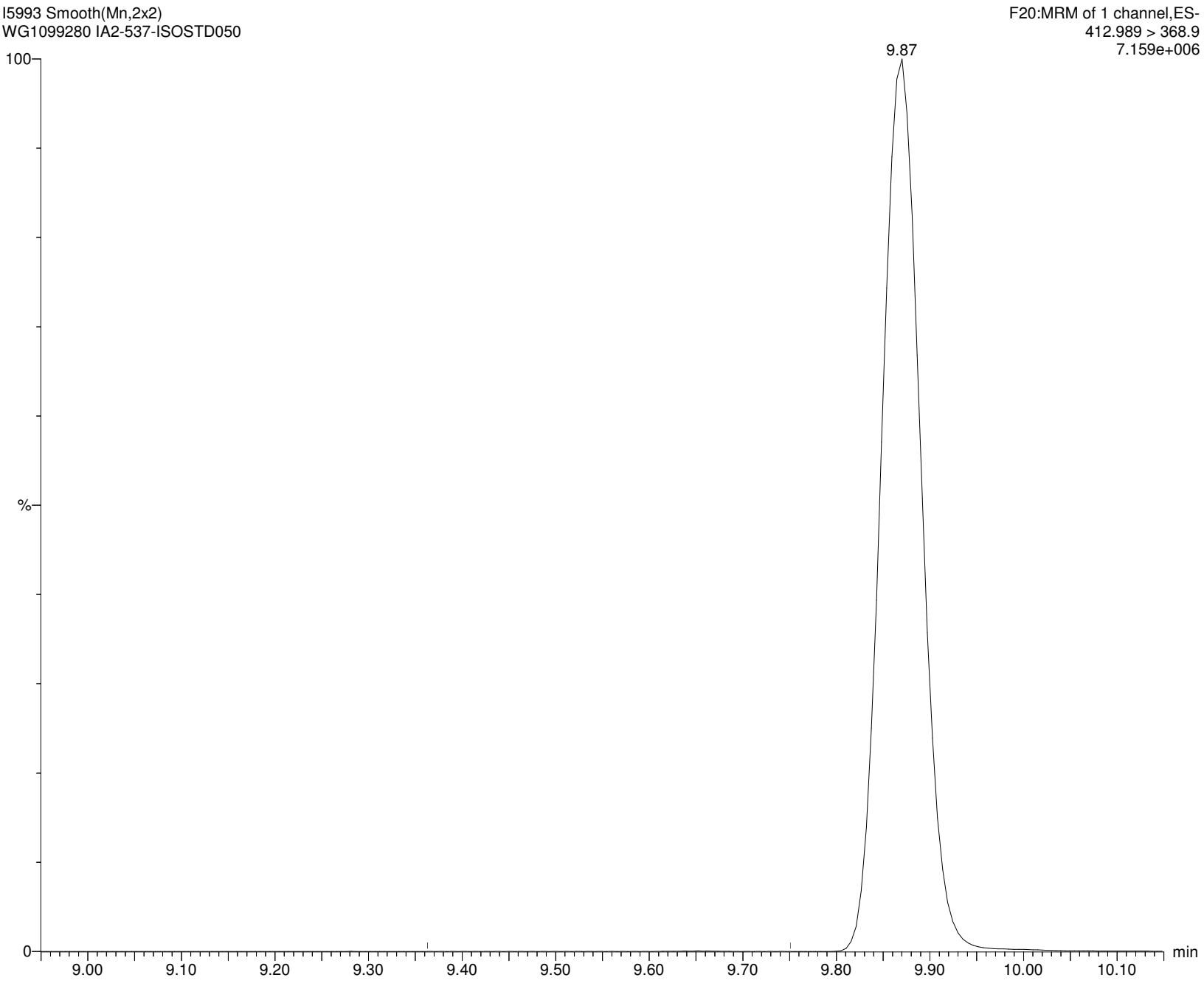

all concentration units in (ng/mL)

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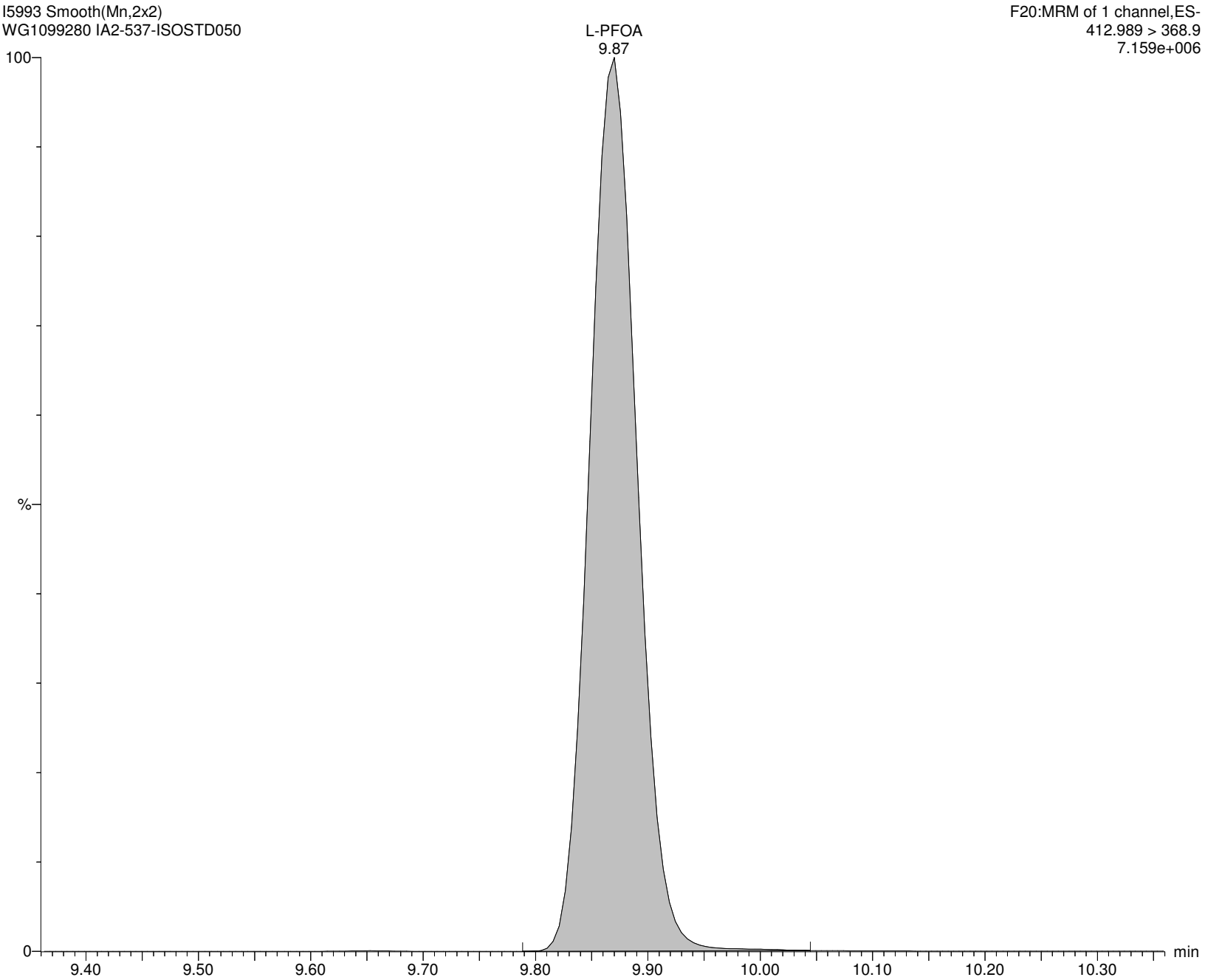

all concentration units in (ng/mL)

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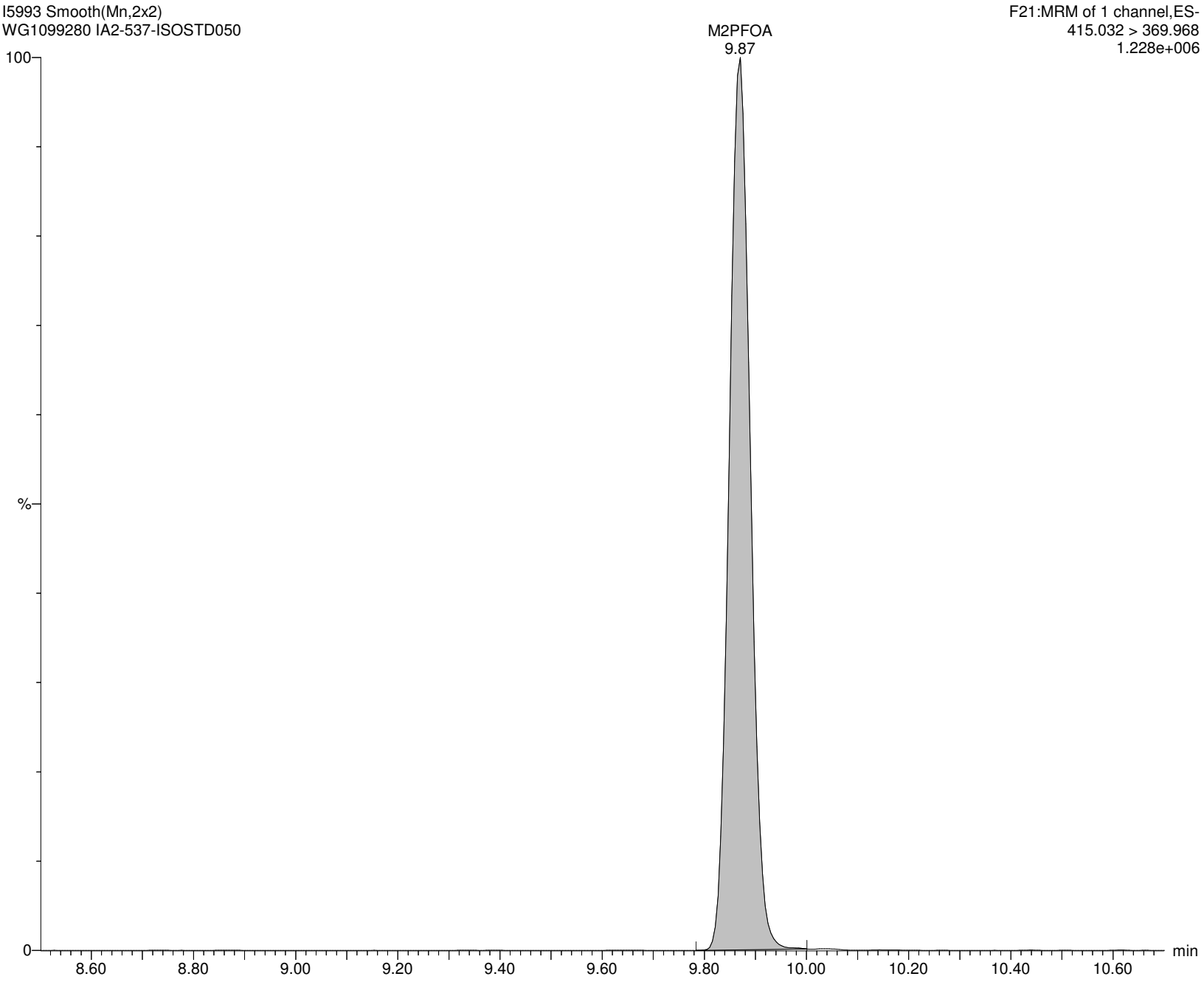

all concentration units in (ng/mL)

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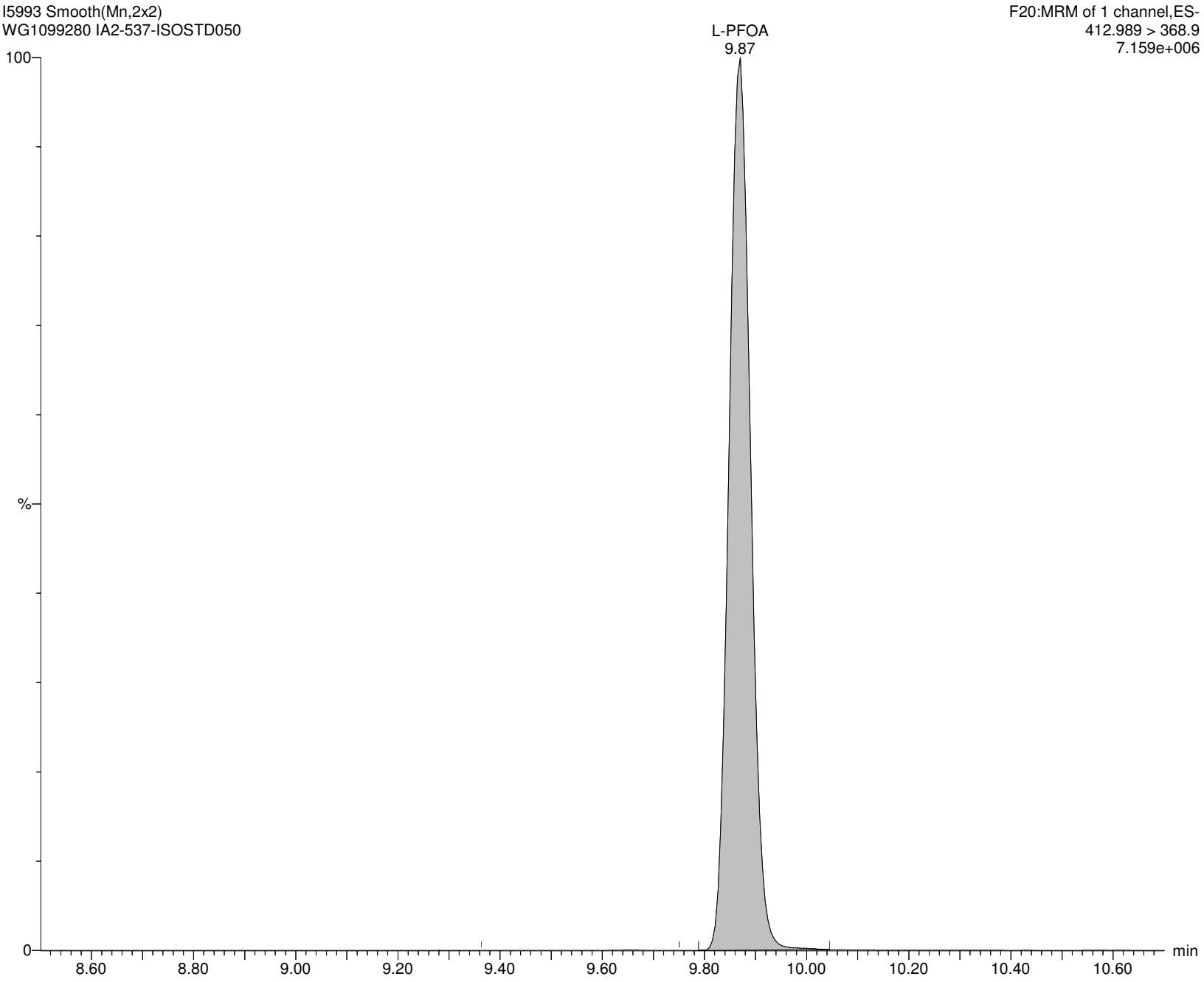

all concentration units in (ng/mL)

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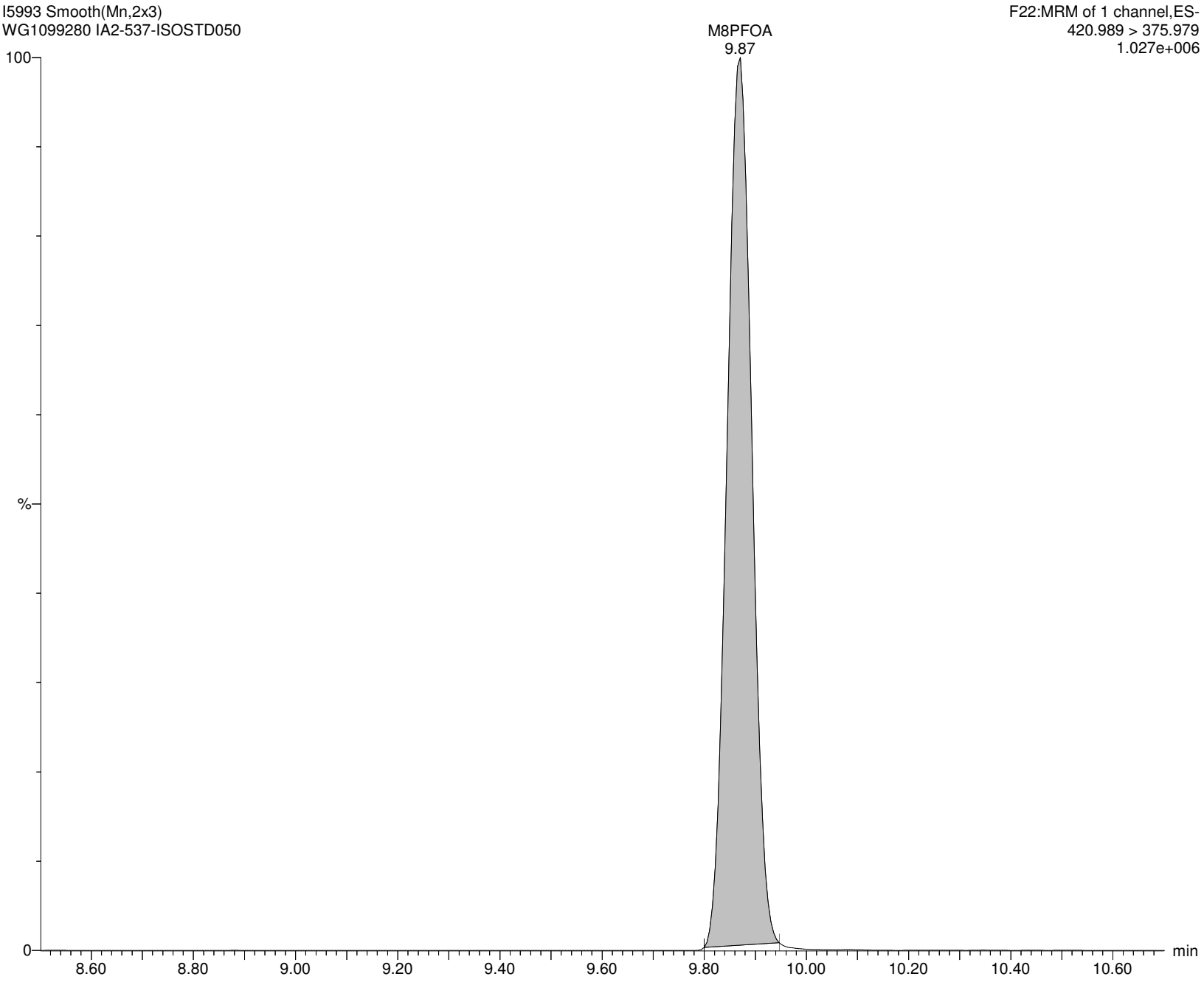

all concentration units in (ng/mL)

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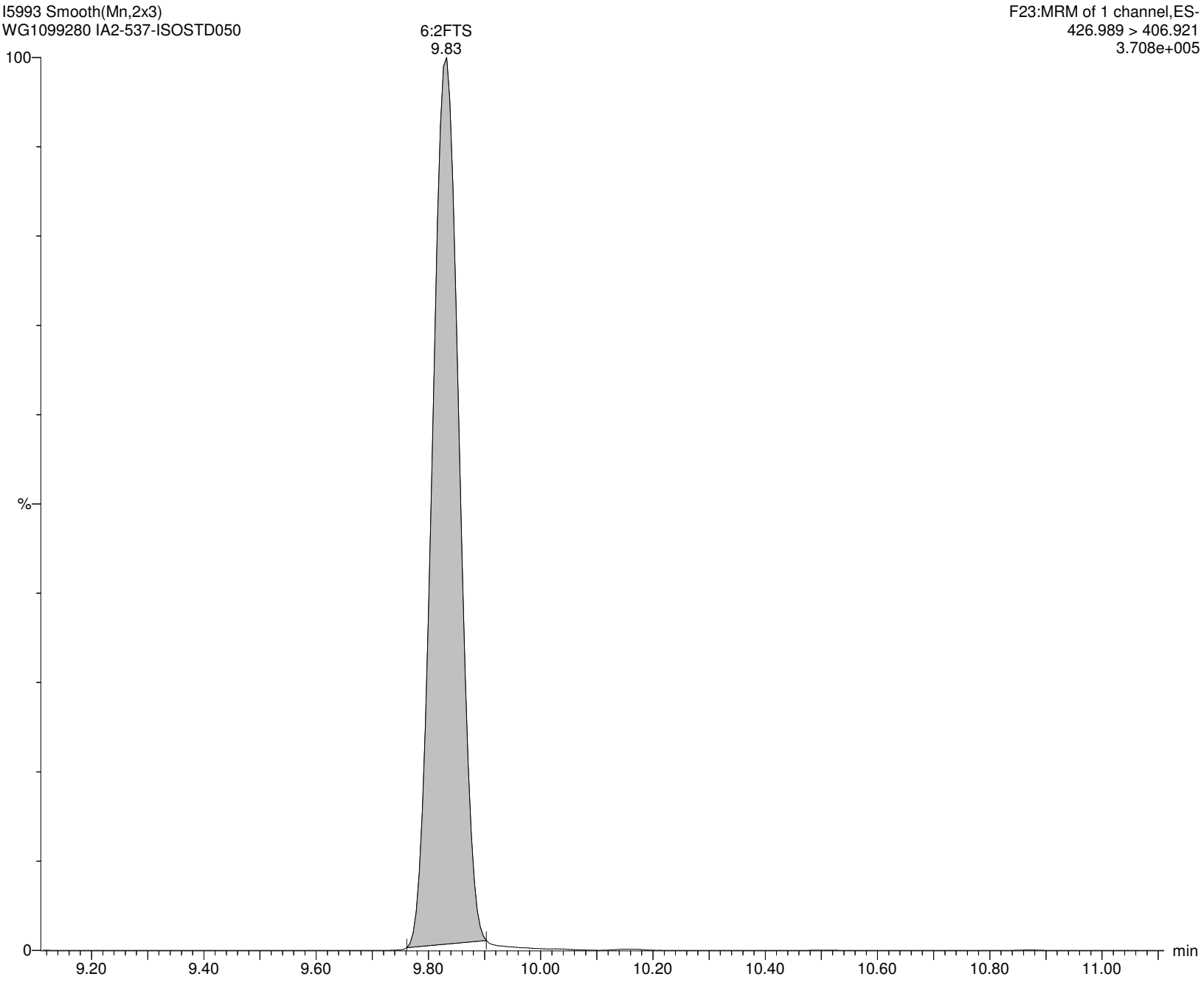

all concentration units in (ng/mL)

Alpha Analytical Inc.
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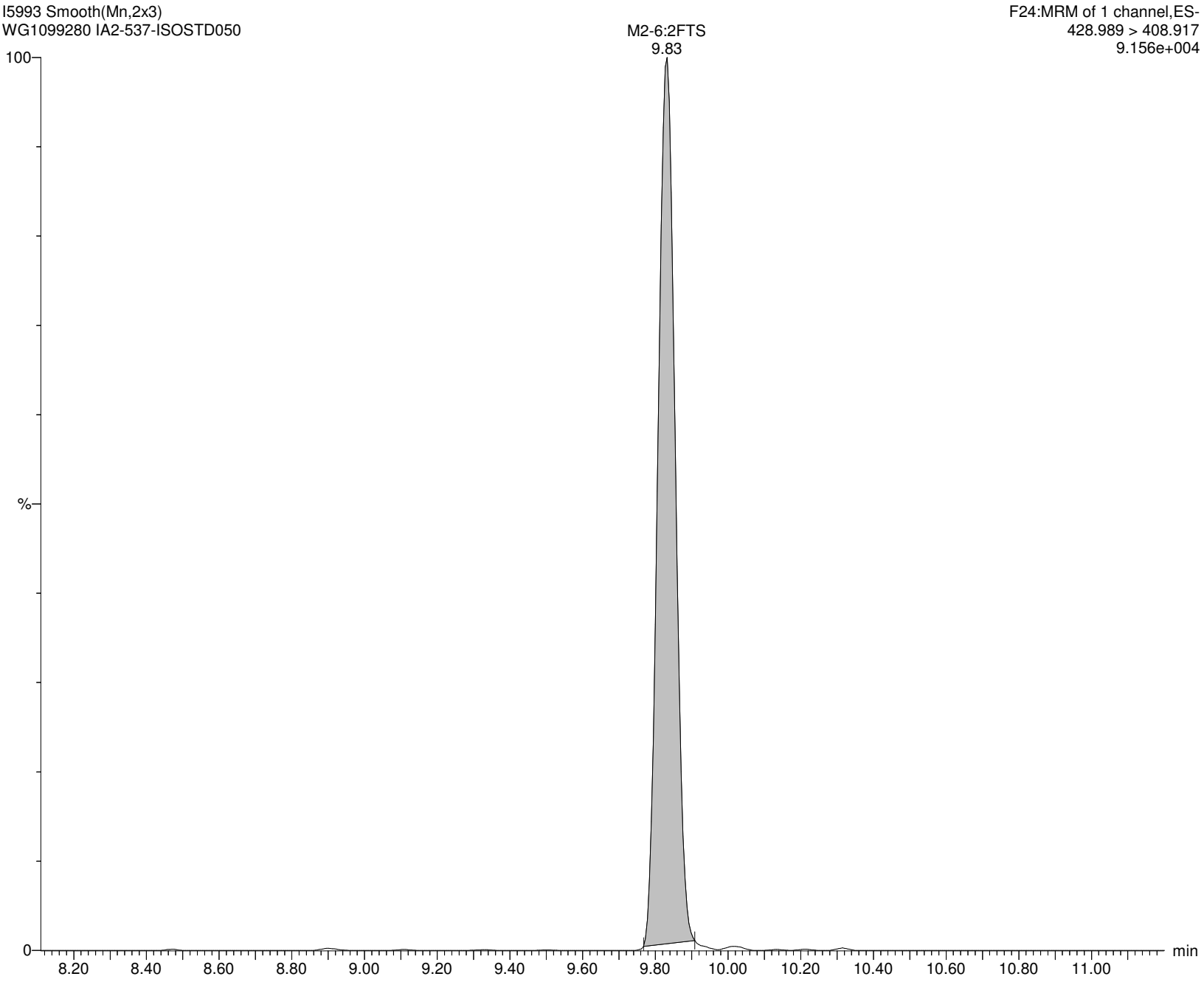

all concentration units in (ng/mL)

Alpha Analytical Inc.
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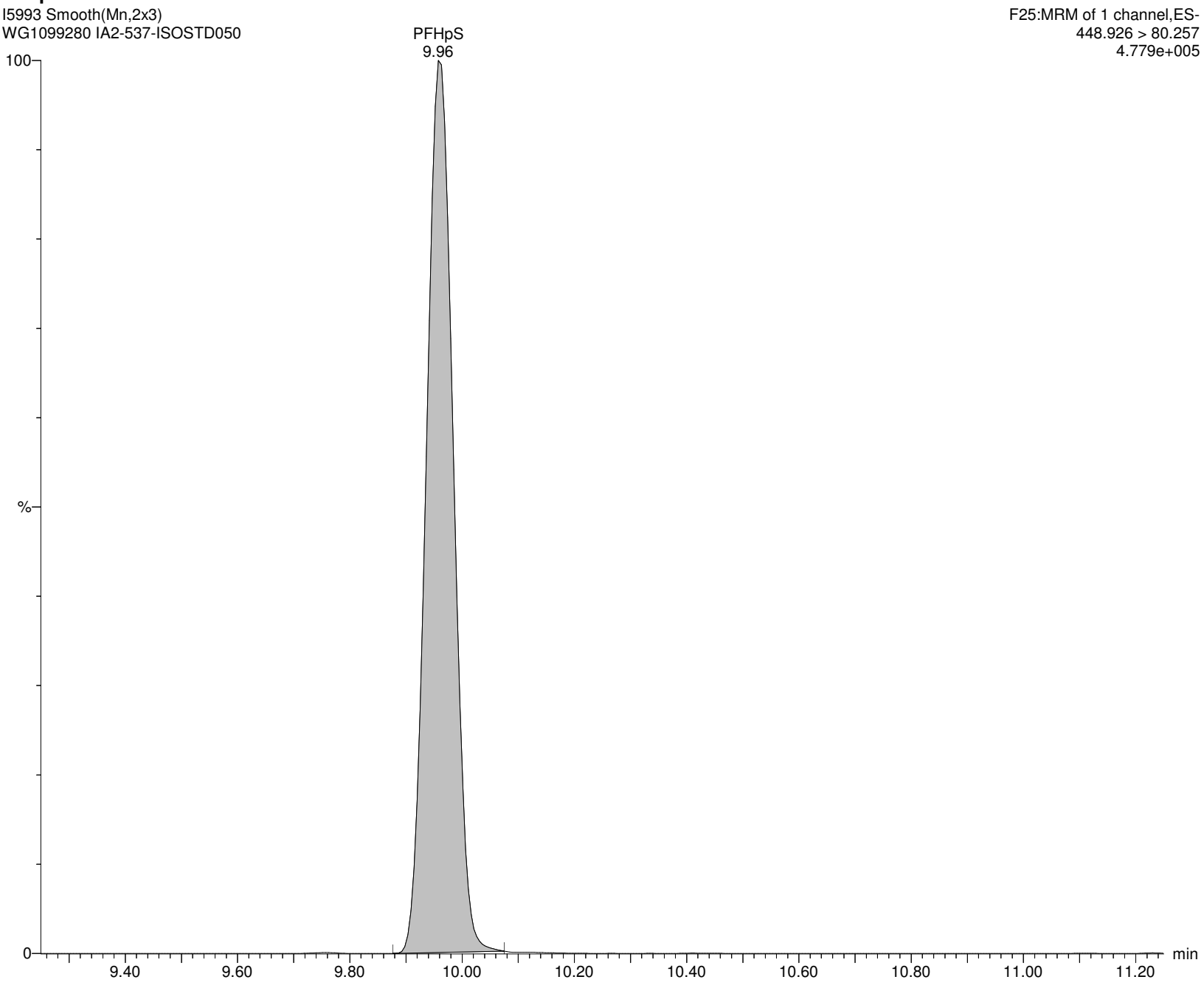

all concentration units in (ng/mL)

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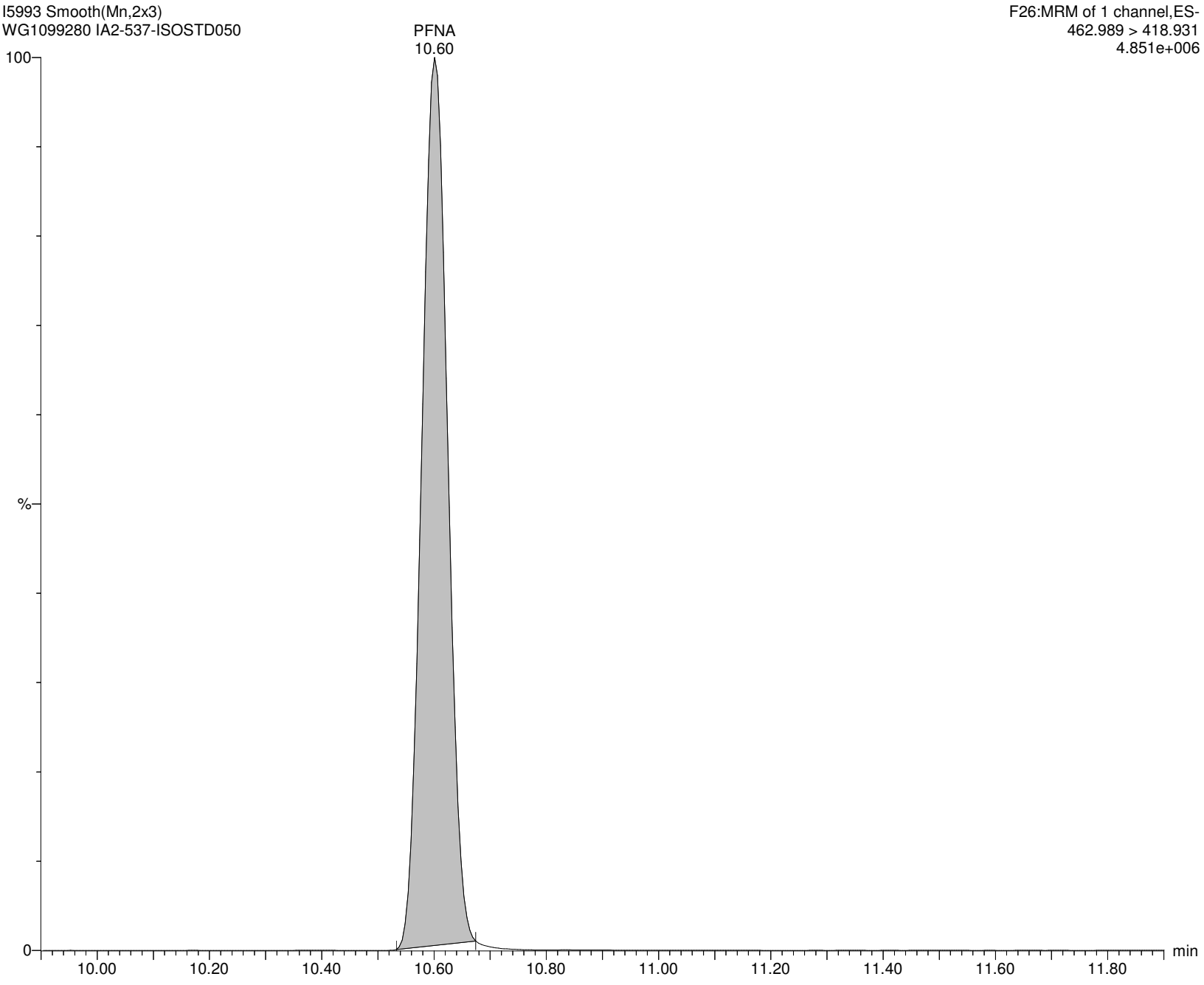

all concentration units in (ng/mL)

Alpha Analytical Inc.
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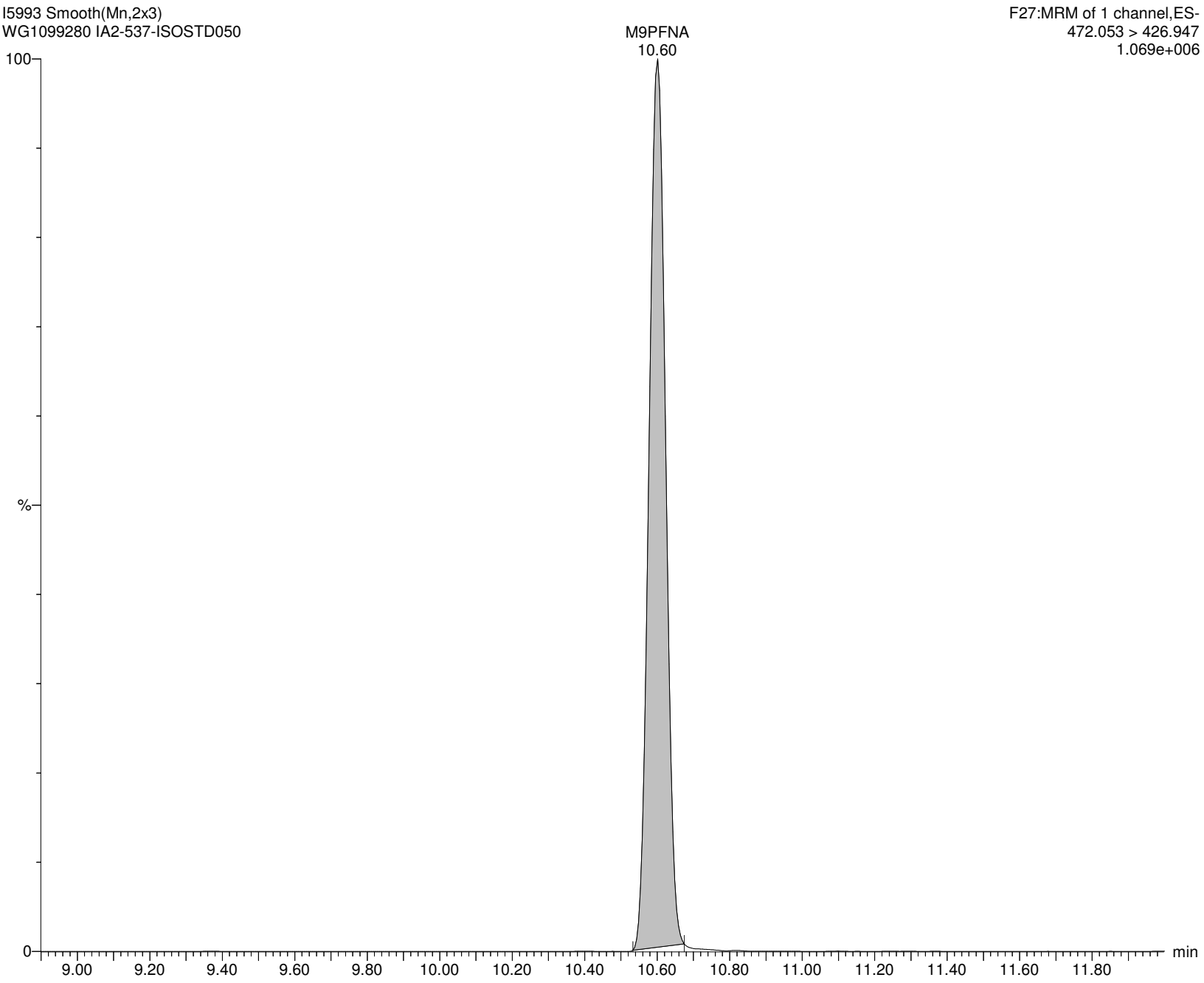

all concentration units in (ng/mL)

Alpha Analytical Inc.
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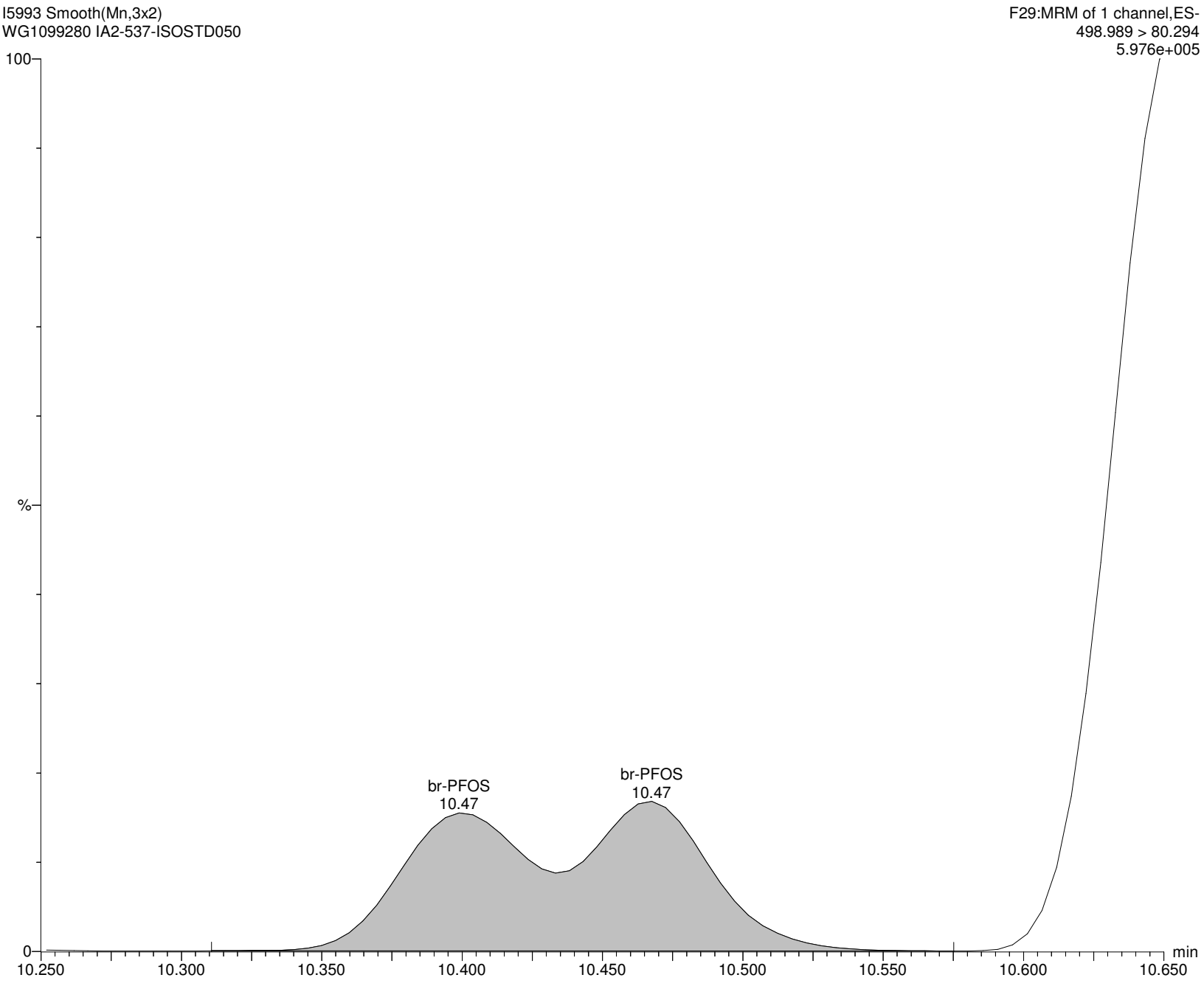

all concentration units in (ng/mL)

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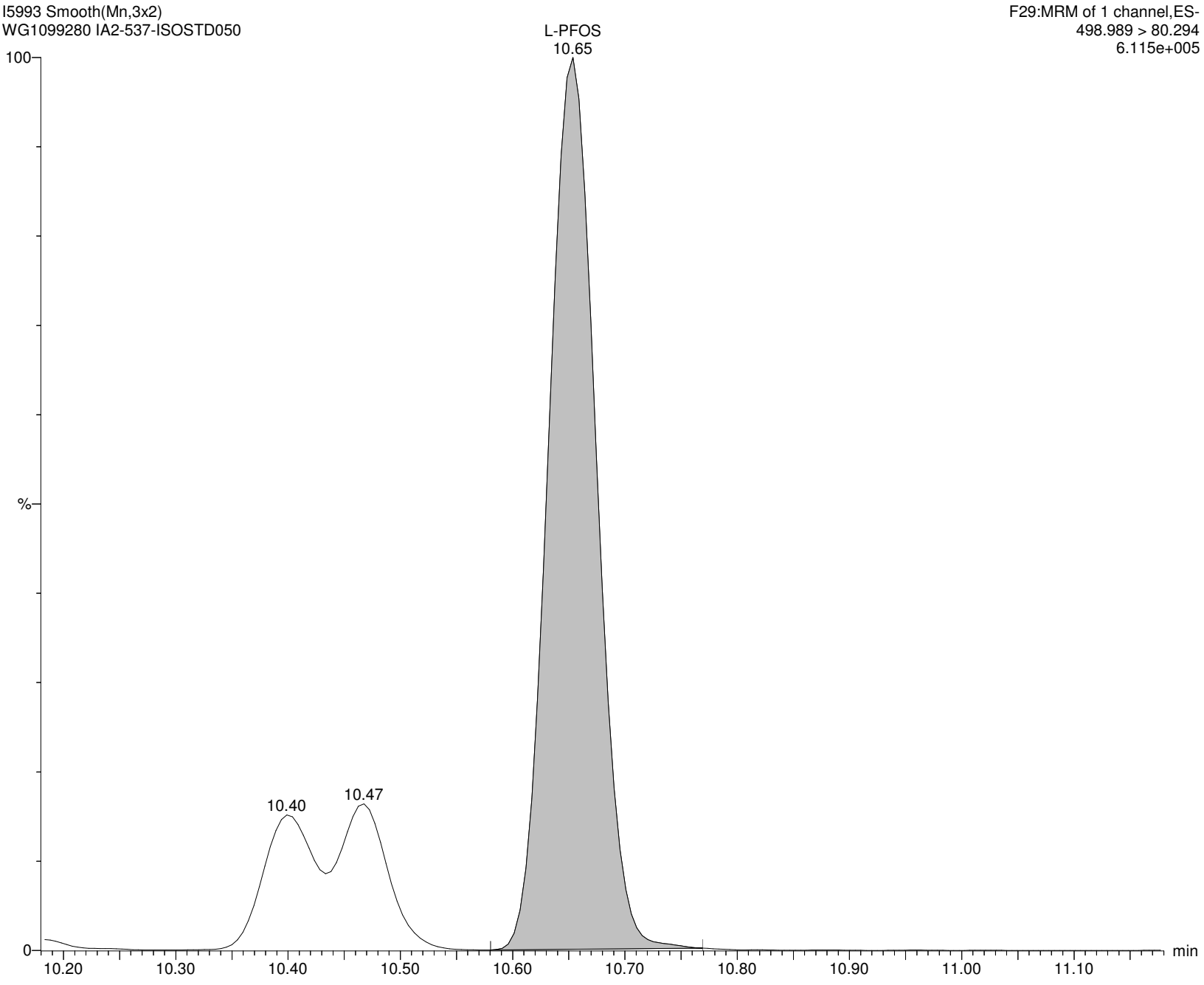

all concentration units in (ng/mL)

Alpha Analytical Inc.
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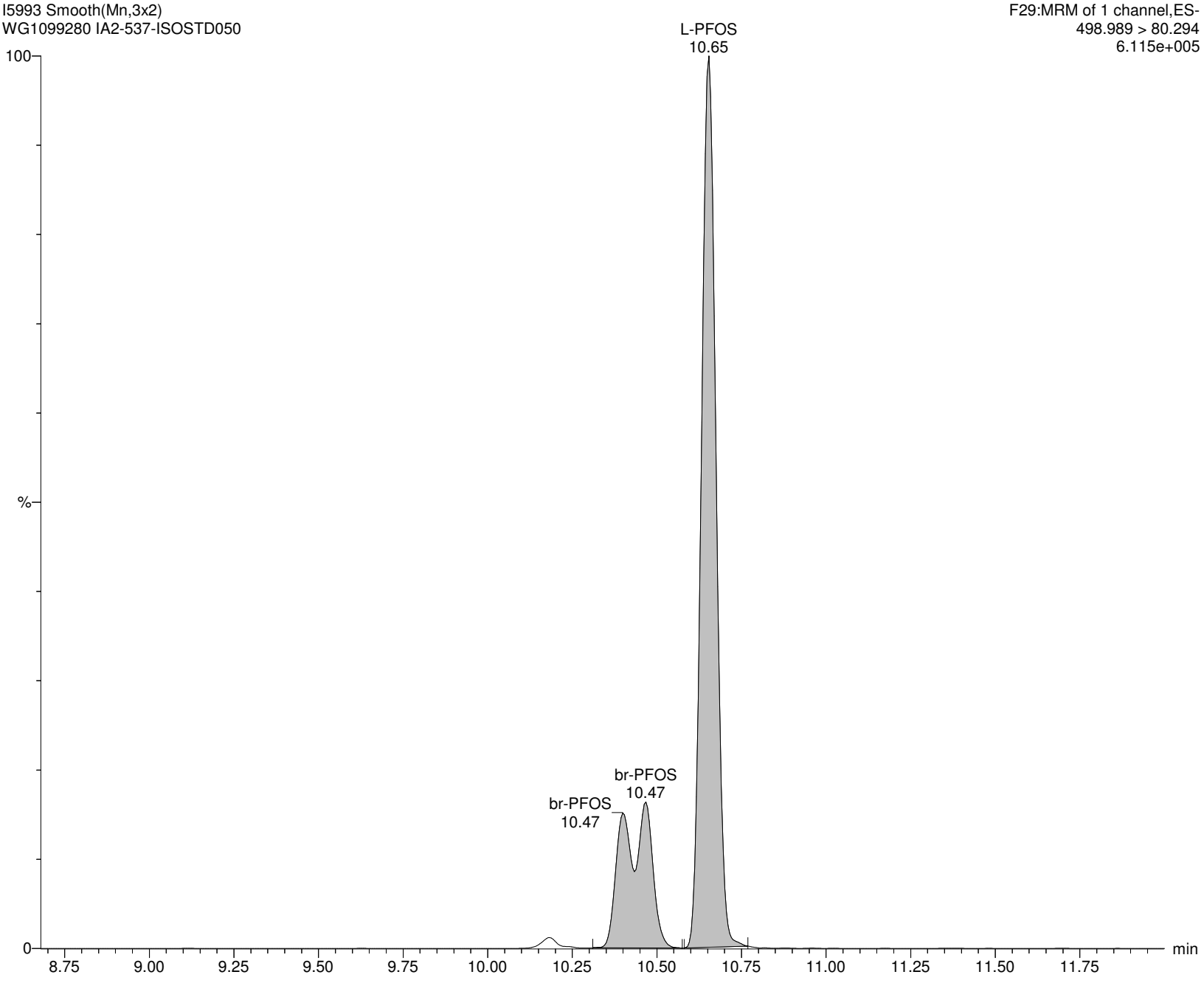

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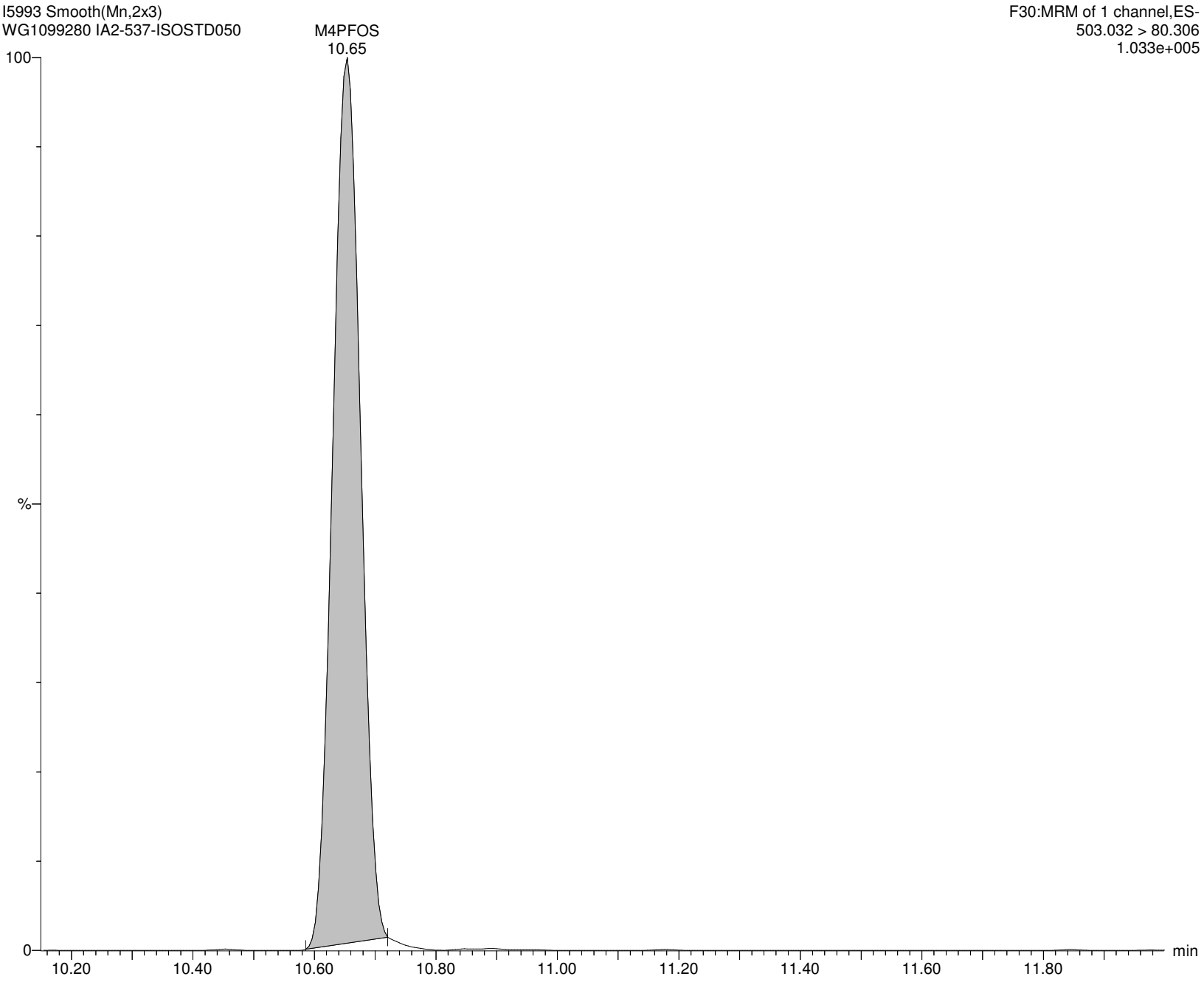

all concentration units in (ng/mL)

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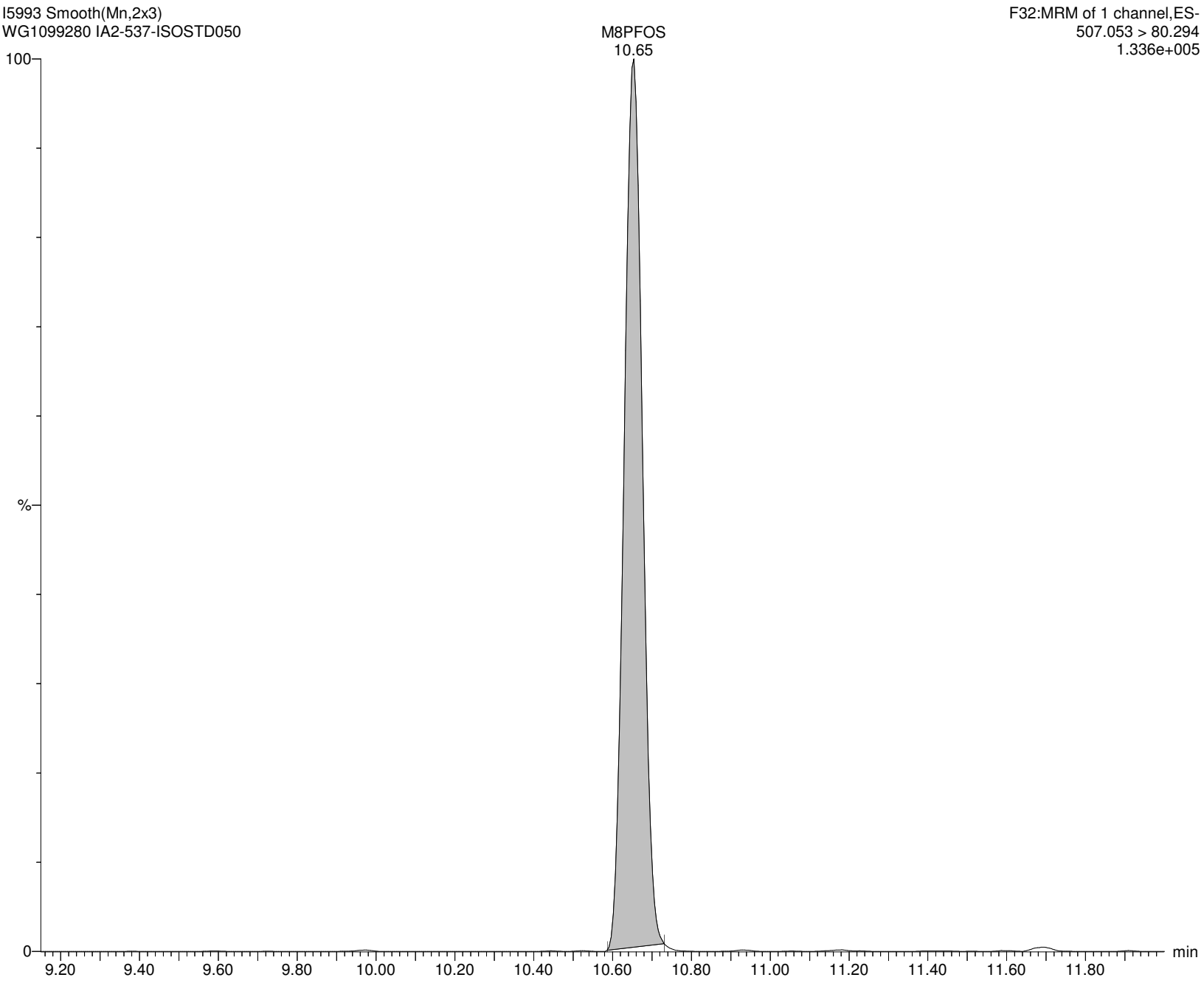

all concentration units in (ng/mL)

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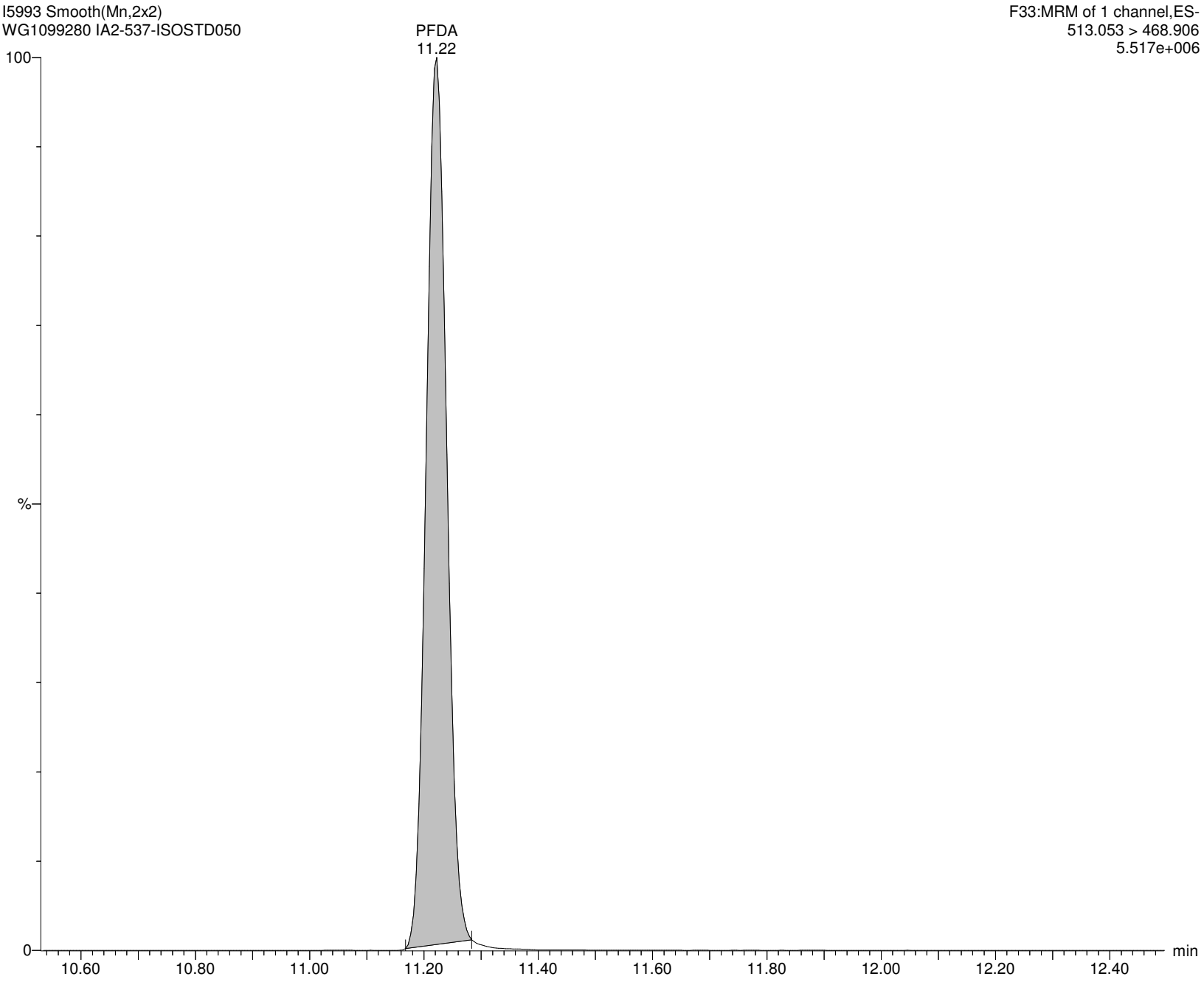

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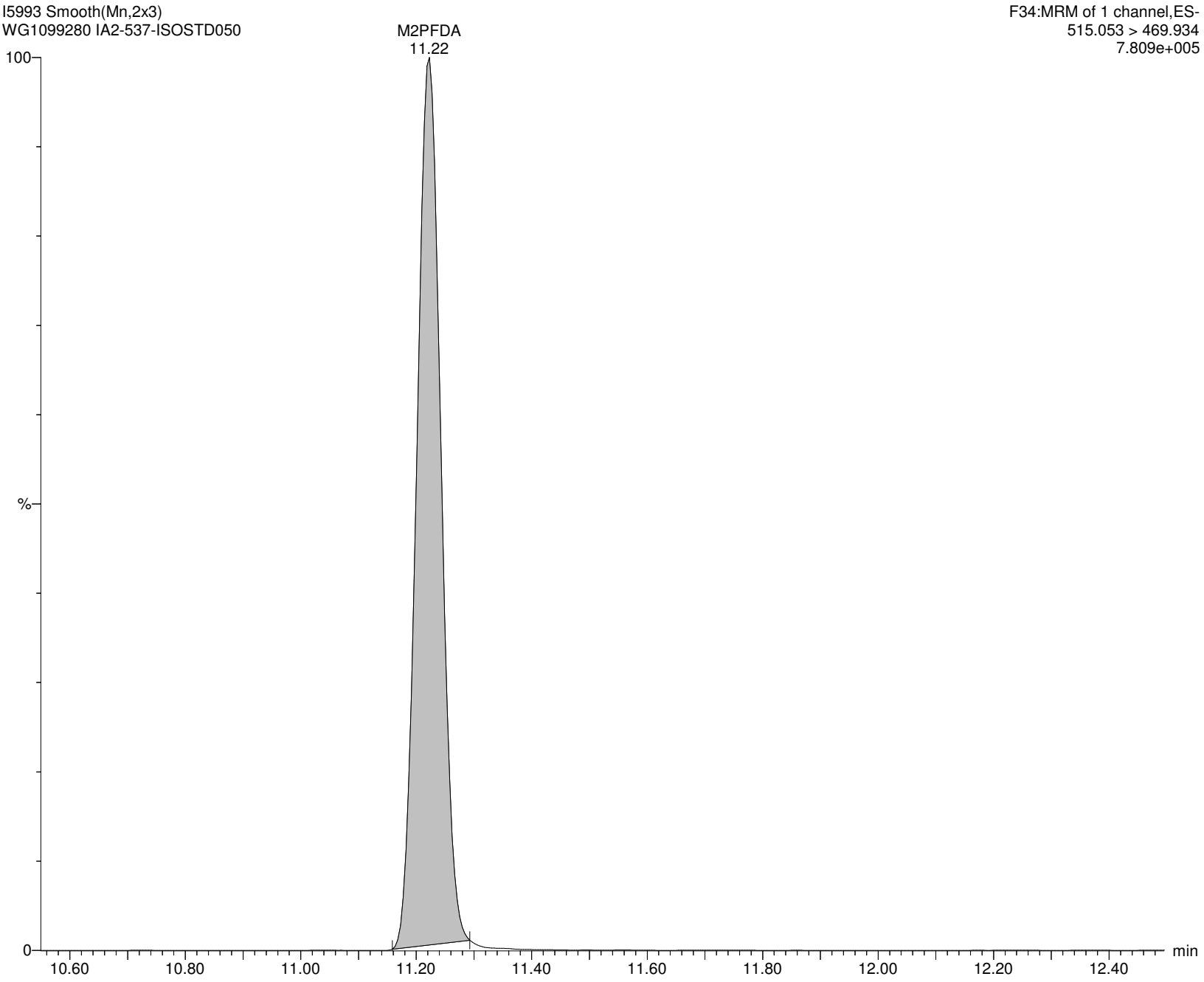
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:52 Eastern Daylight Time

Name: I5993
ID: IA2-537-ISOSTD050
Date: 21-Mar-2018
Time: 17:15:03
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
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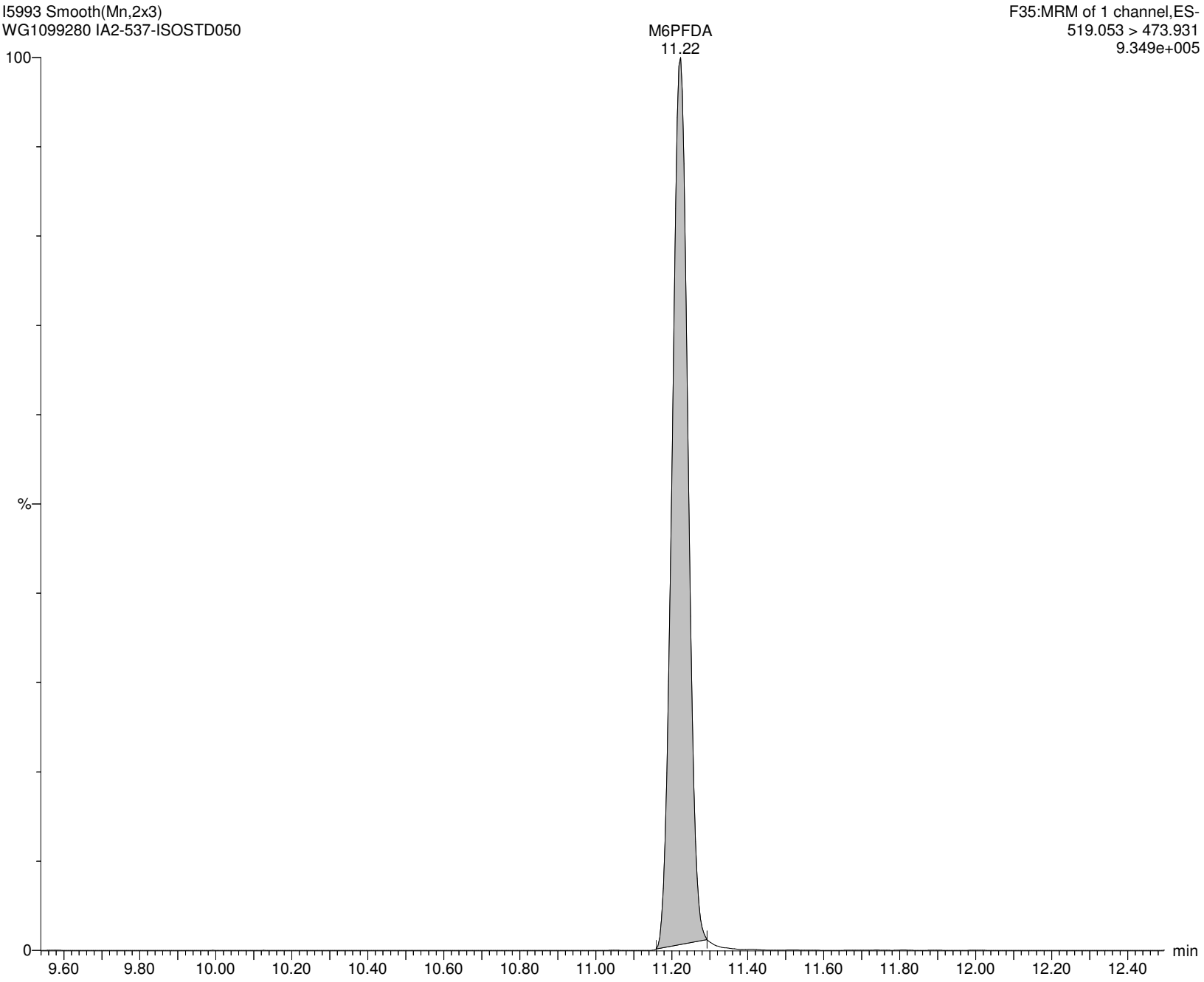

all concentration units in (ng/mL)

Alpha Analytical Inc.
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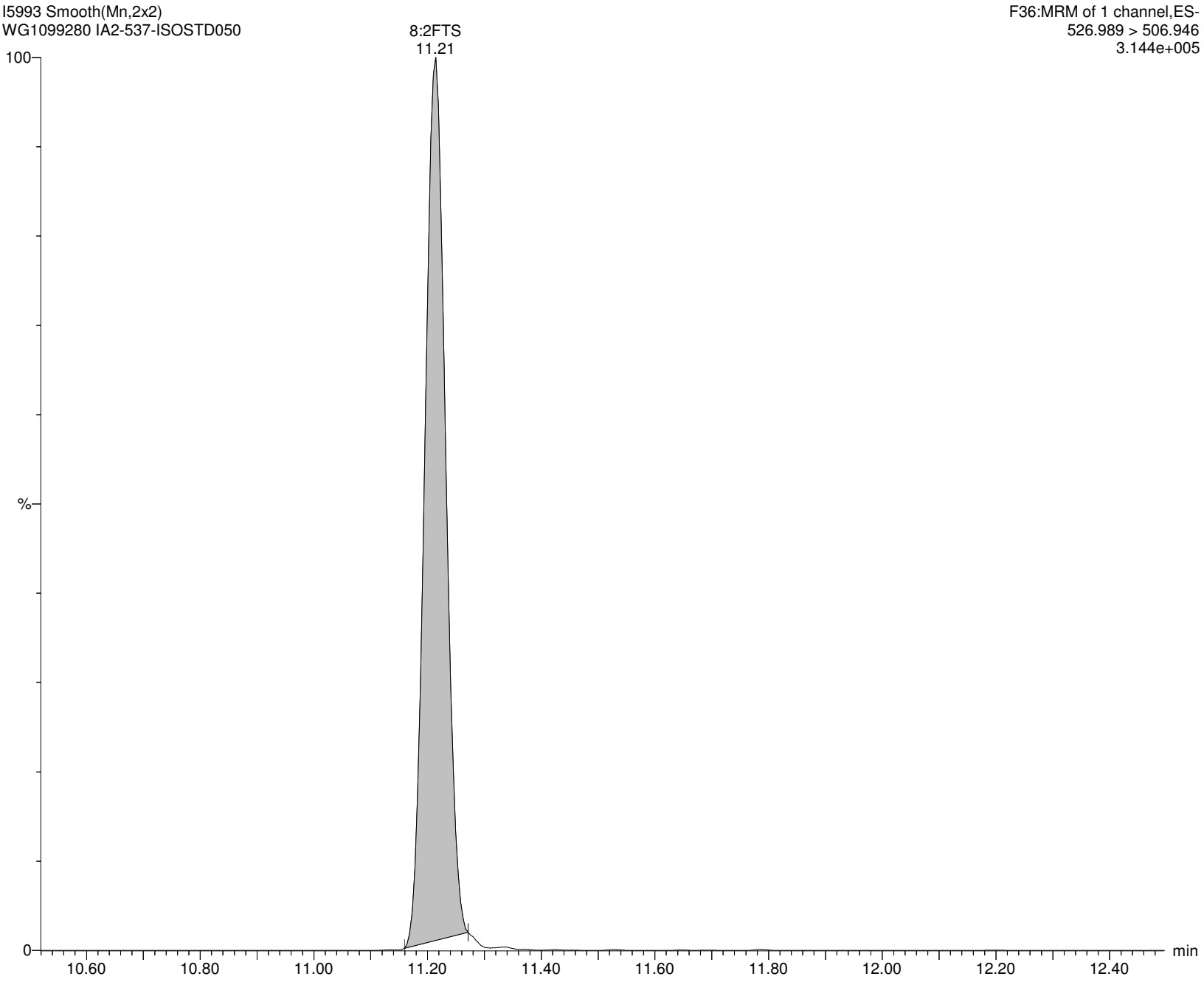
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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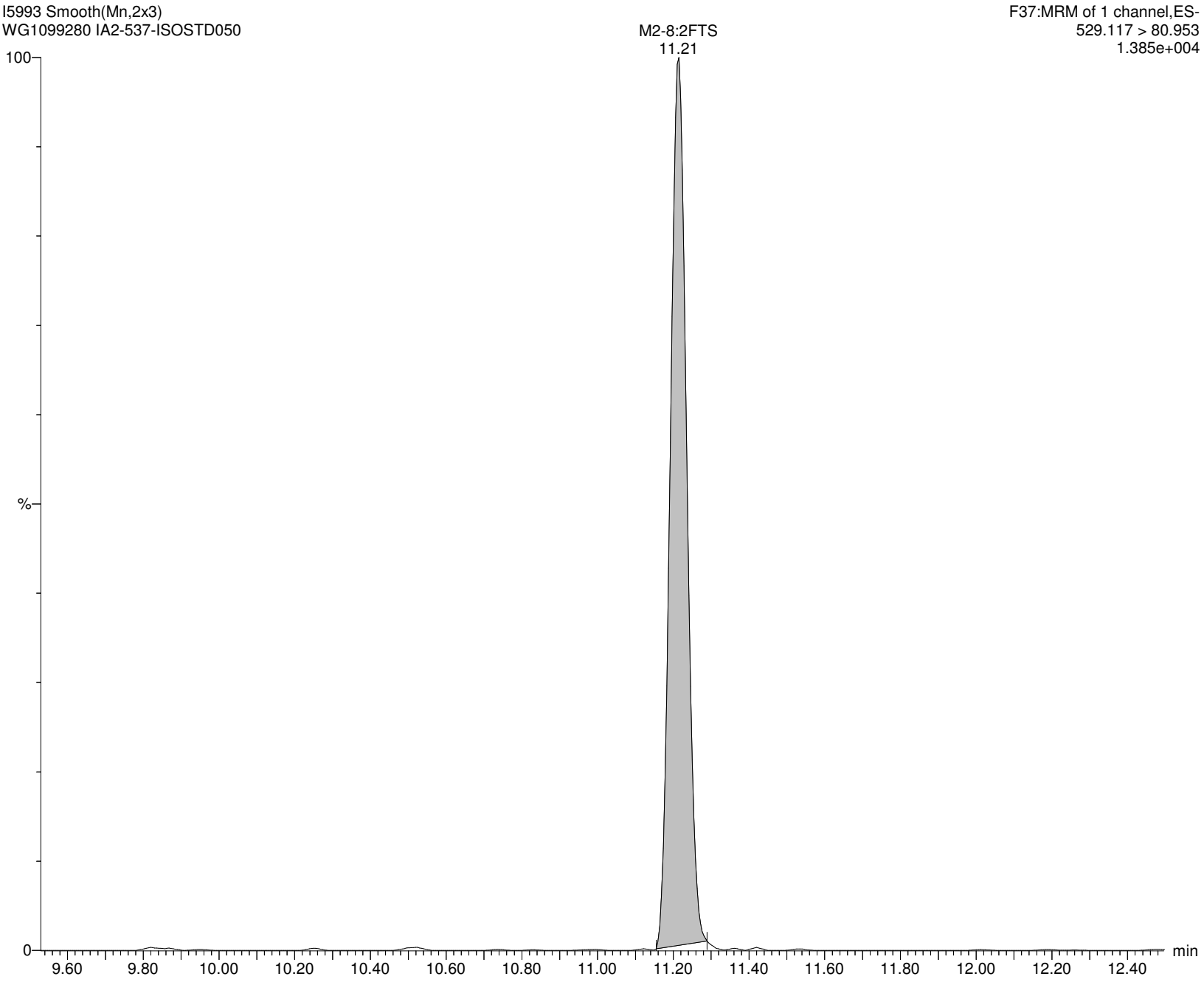

all concentration units in (ng/mL)

Alpha Analytical Inc.
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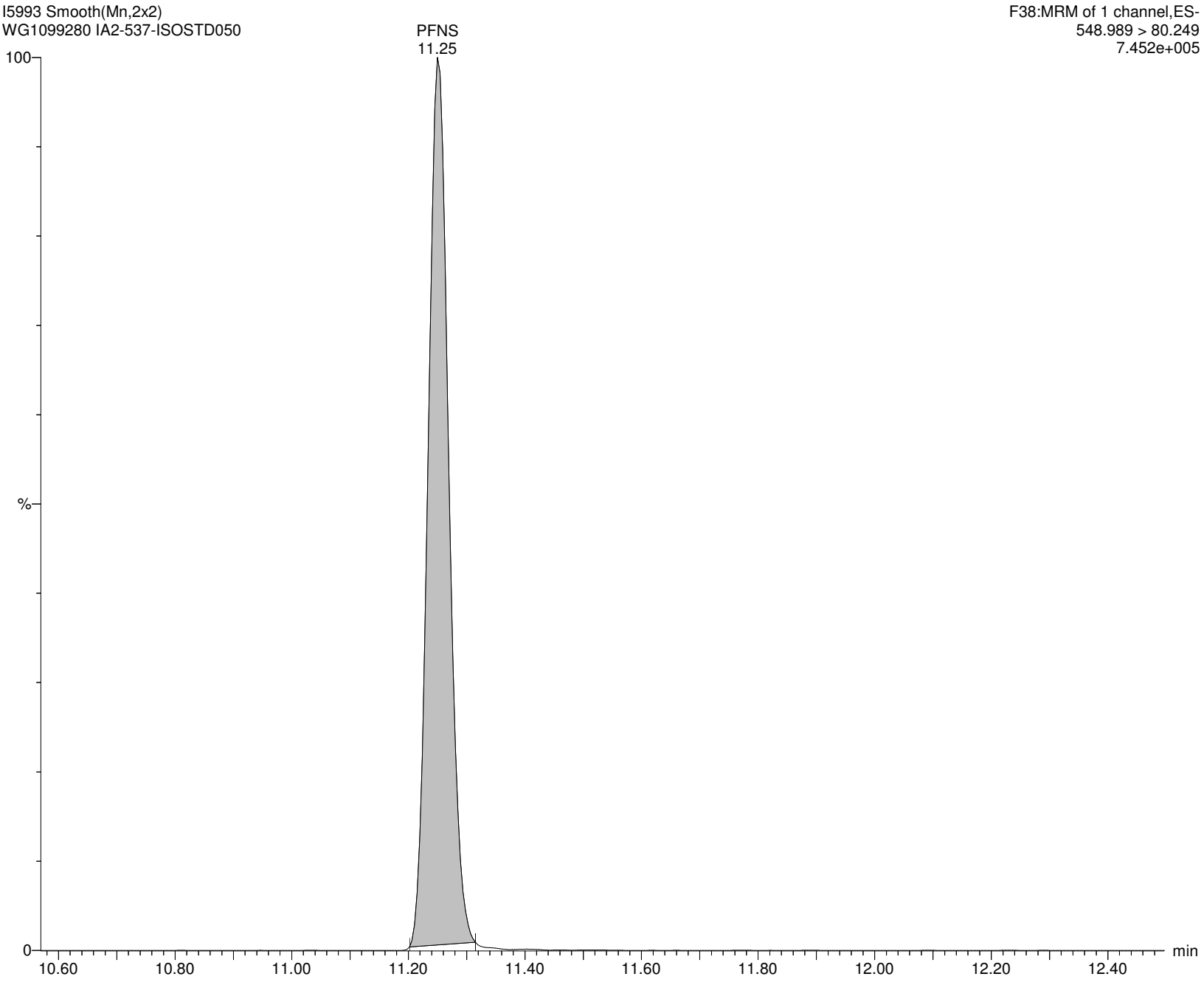

all concentration units in (ng/mL)

Alpha Analytical Inc.
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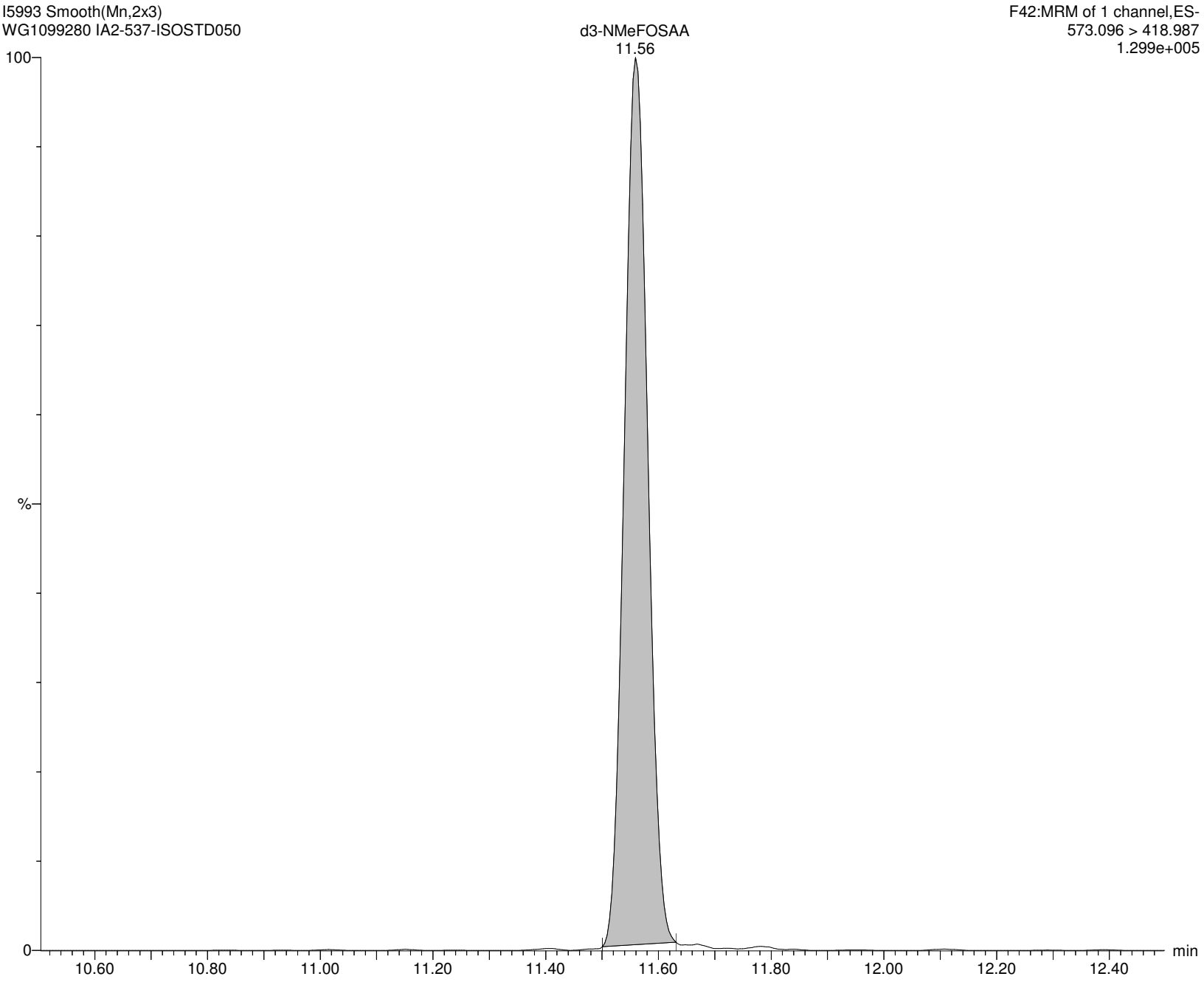

all concentration units in (ng/mL)

Alpha Analytical Inc.
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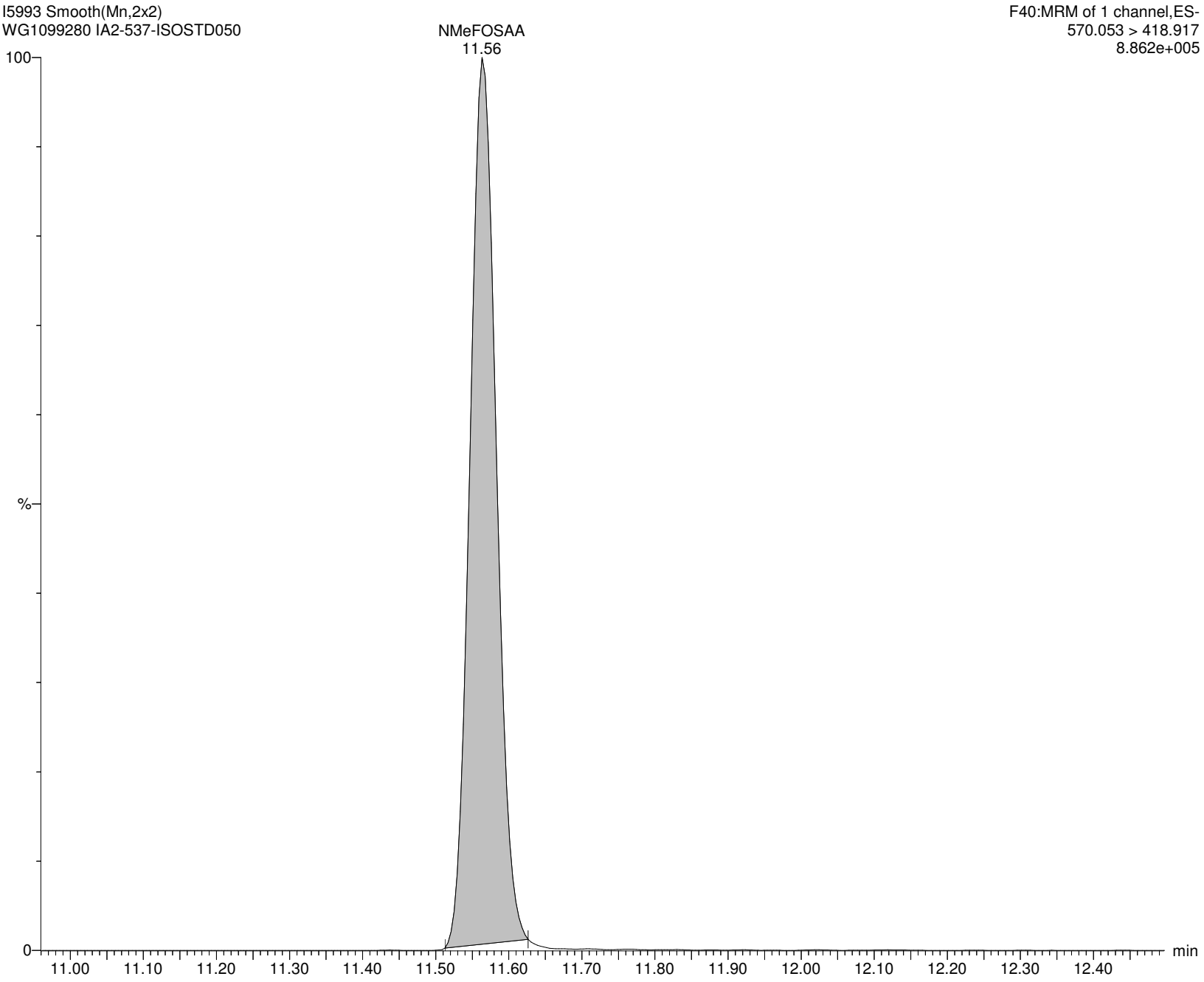

all concentration units in (ng/mL)

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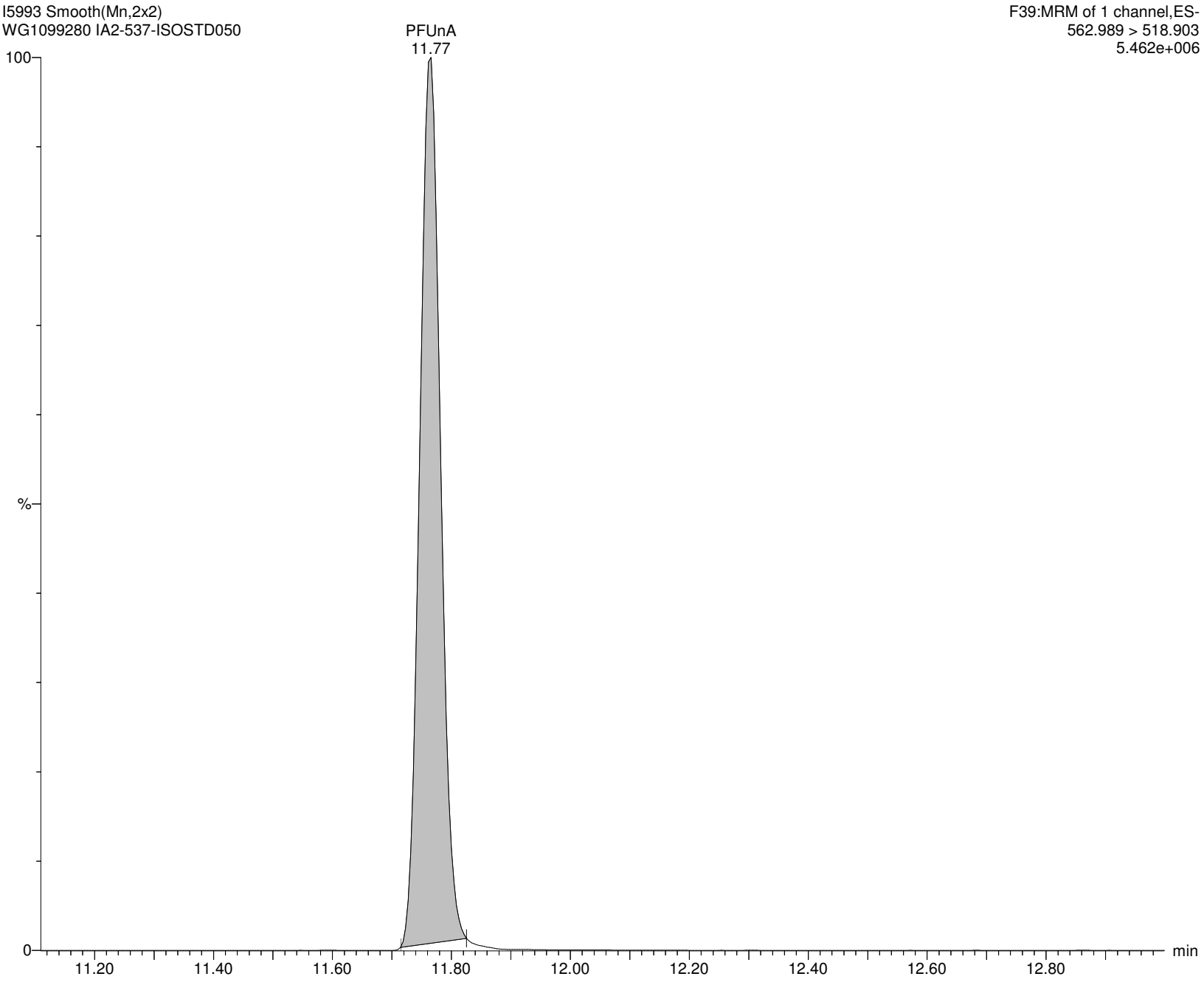

all concentration units in (ng/mL)

Alpha Analytical Inc.
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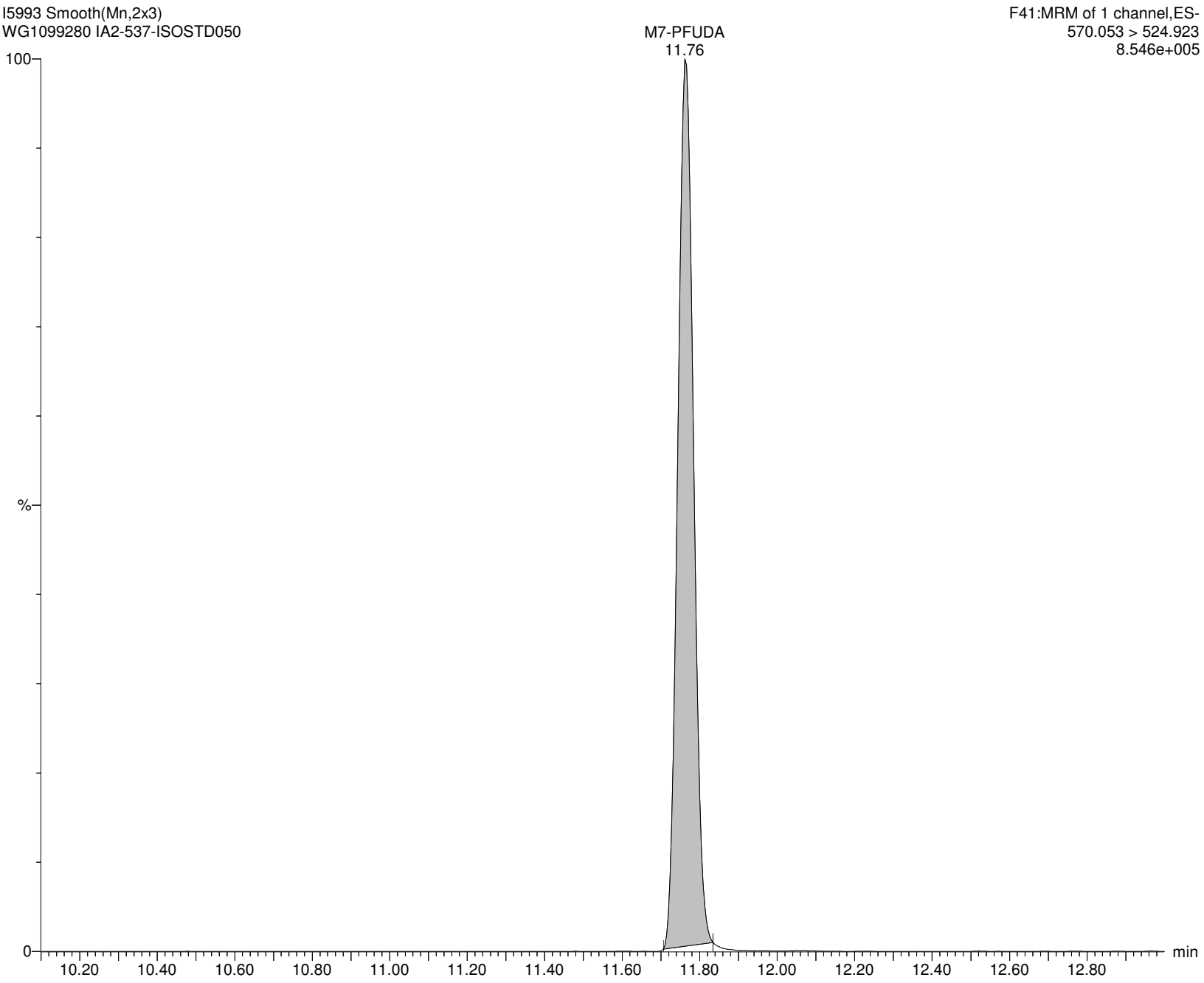

all concentration units in (ng/mL)

Alpha Analytical Inc.
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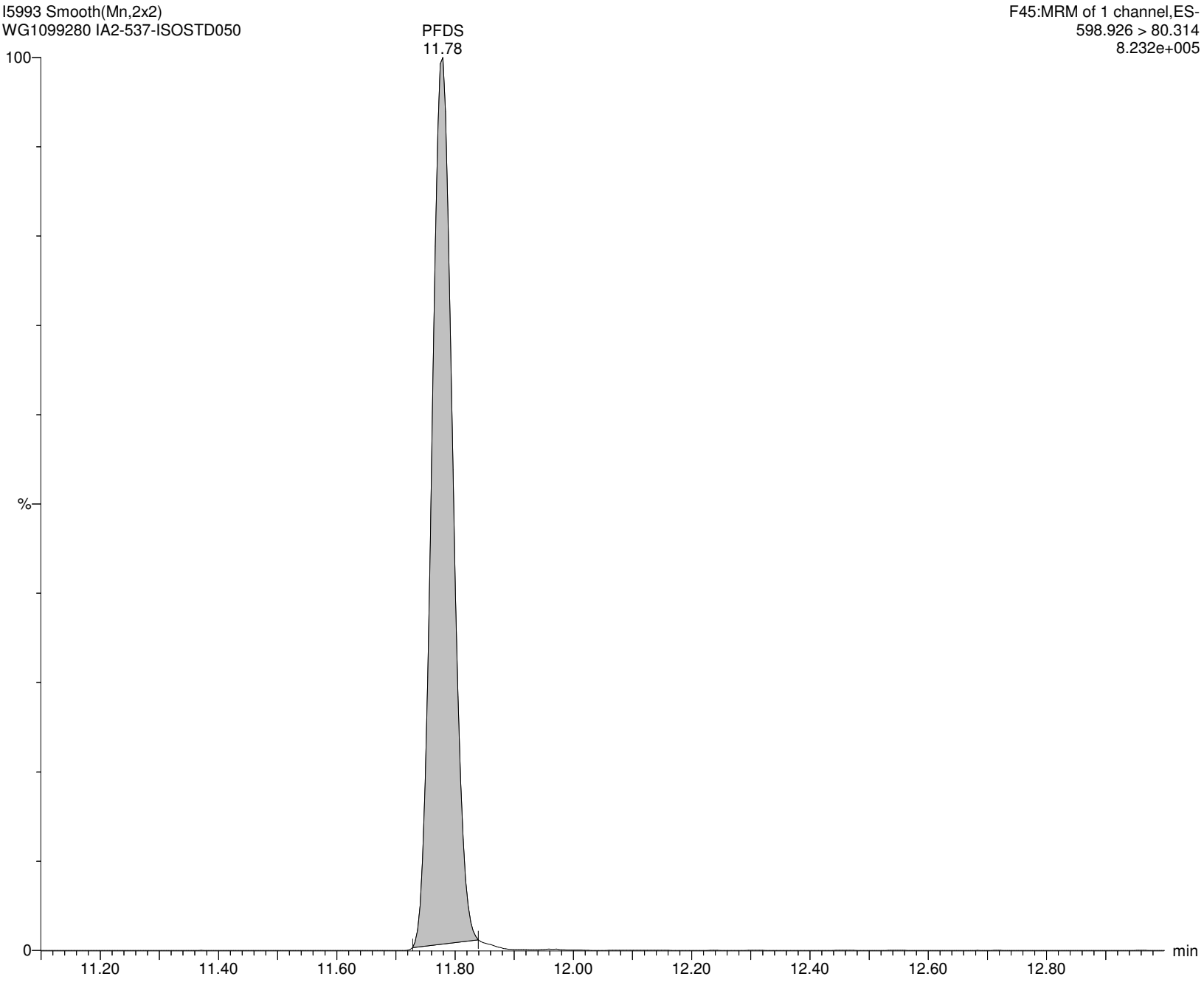

all concentration units in (ng/mL)

Alpha Analytical Inc.
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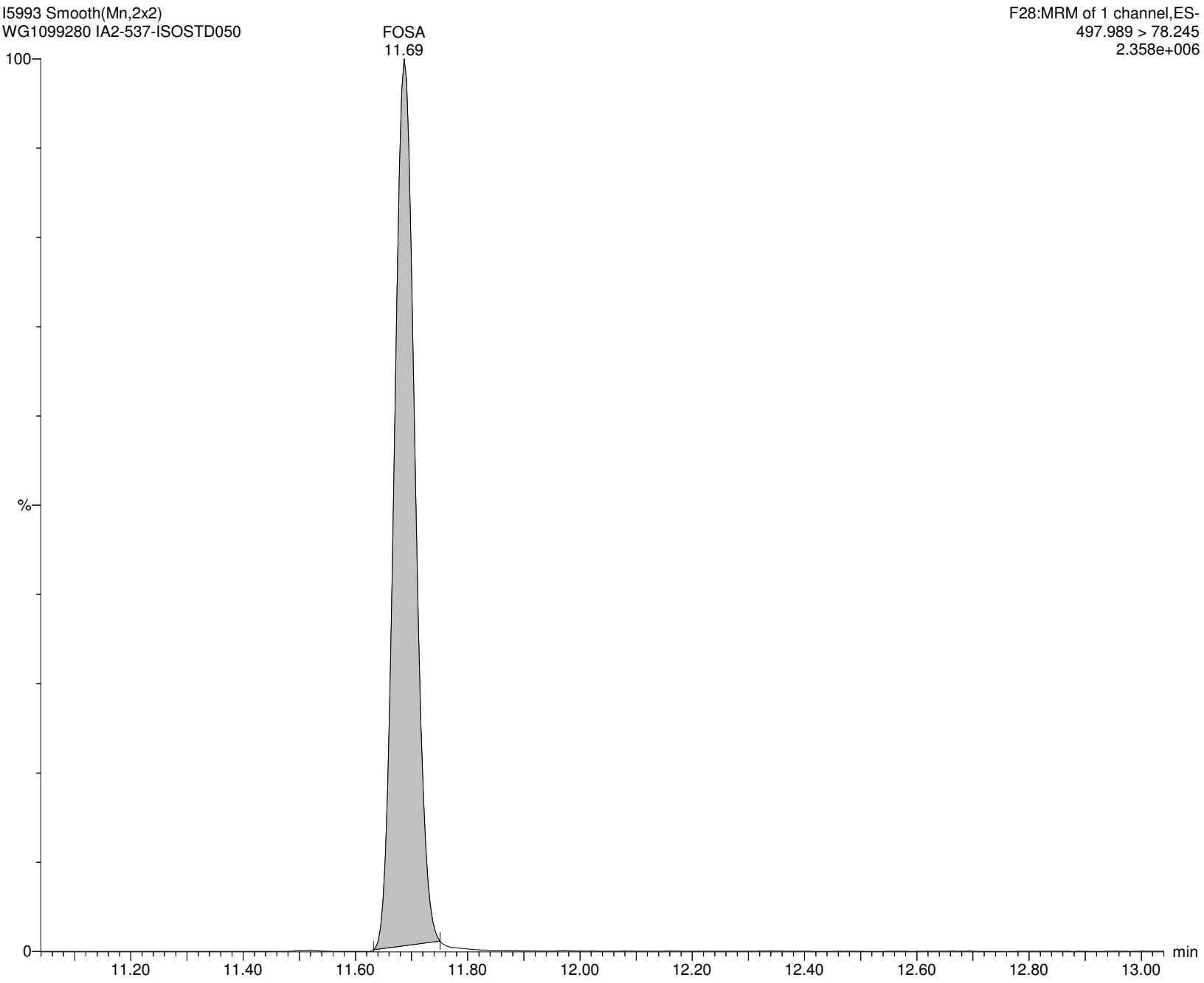

all concentration units in (ng/mL)

Alpha Analytical Inc.
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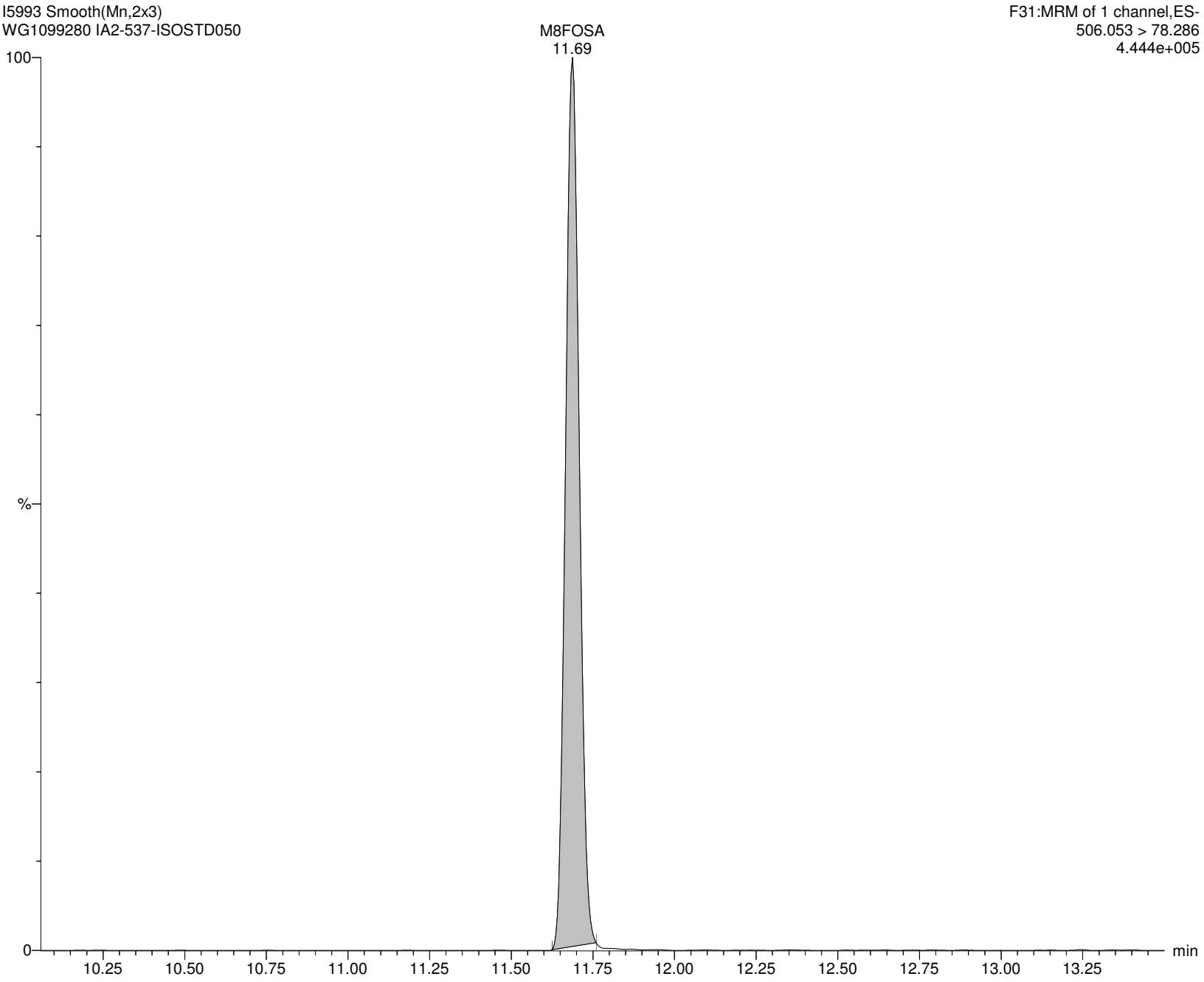

all concentration units in (ng/mL)

Alpha Analytical Inc.
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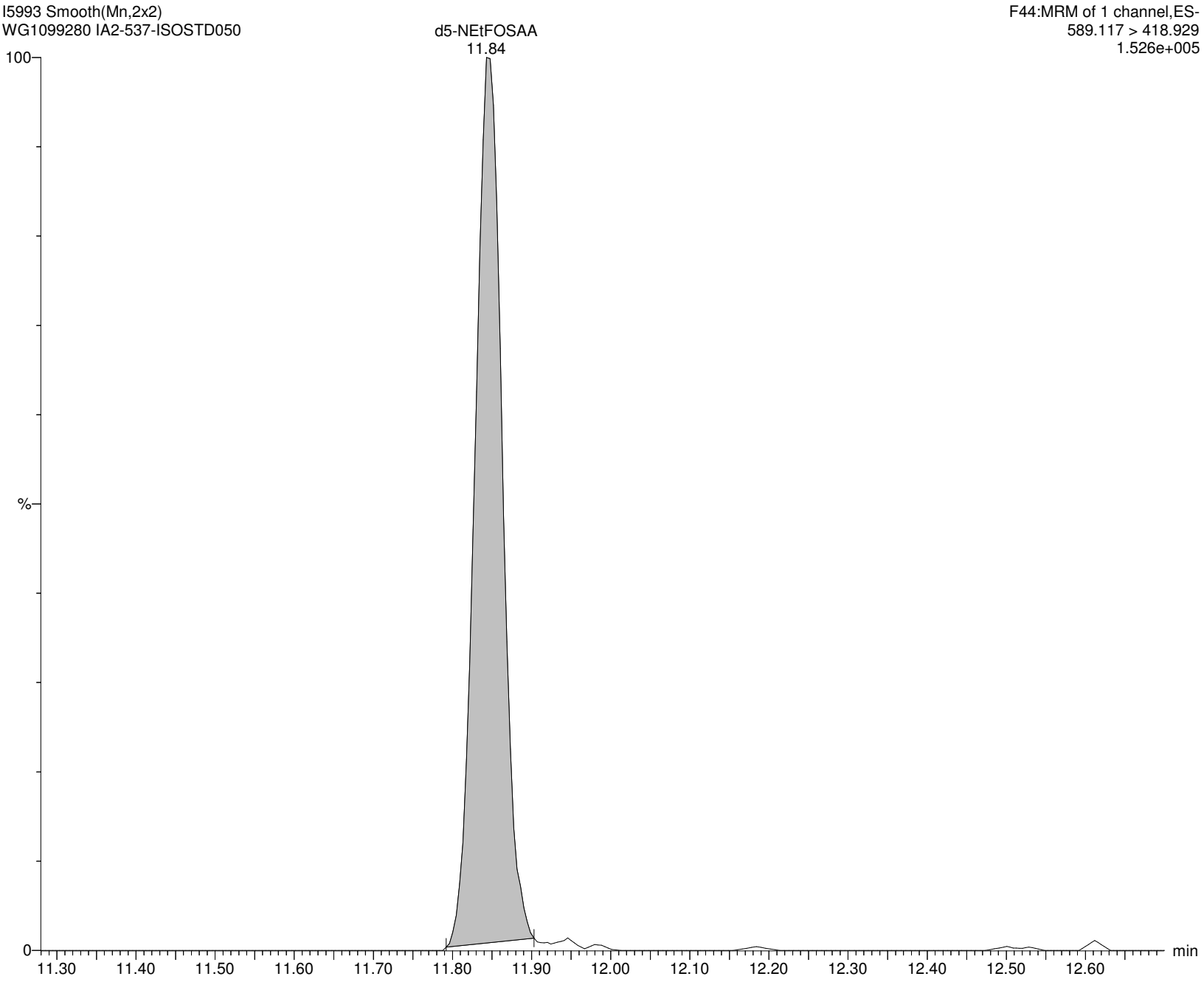
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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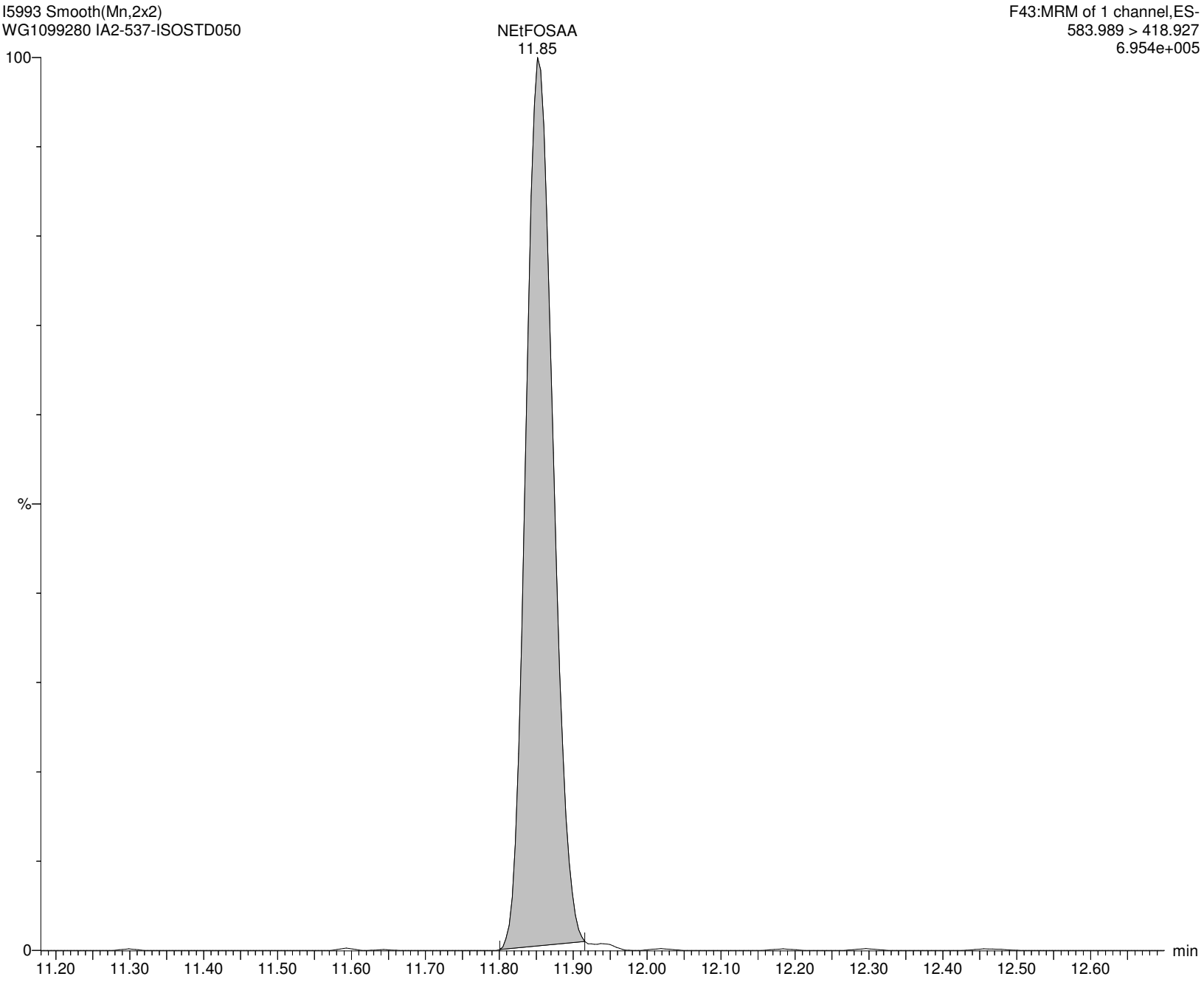

all concentration units in (ng/mL)

Alpha Analytical Inc.
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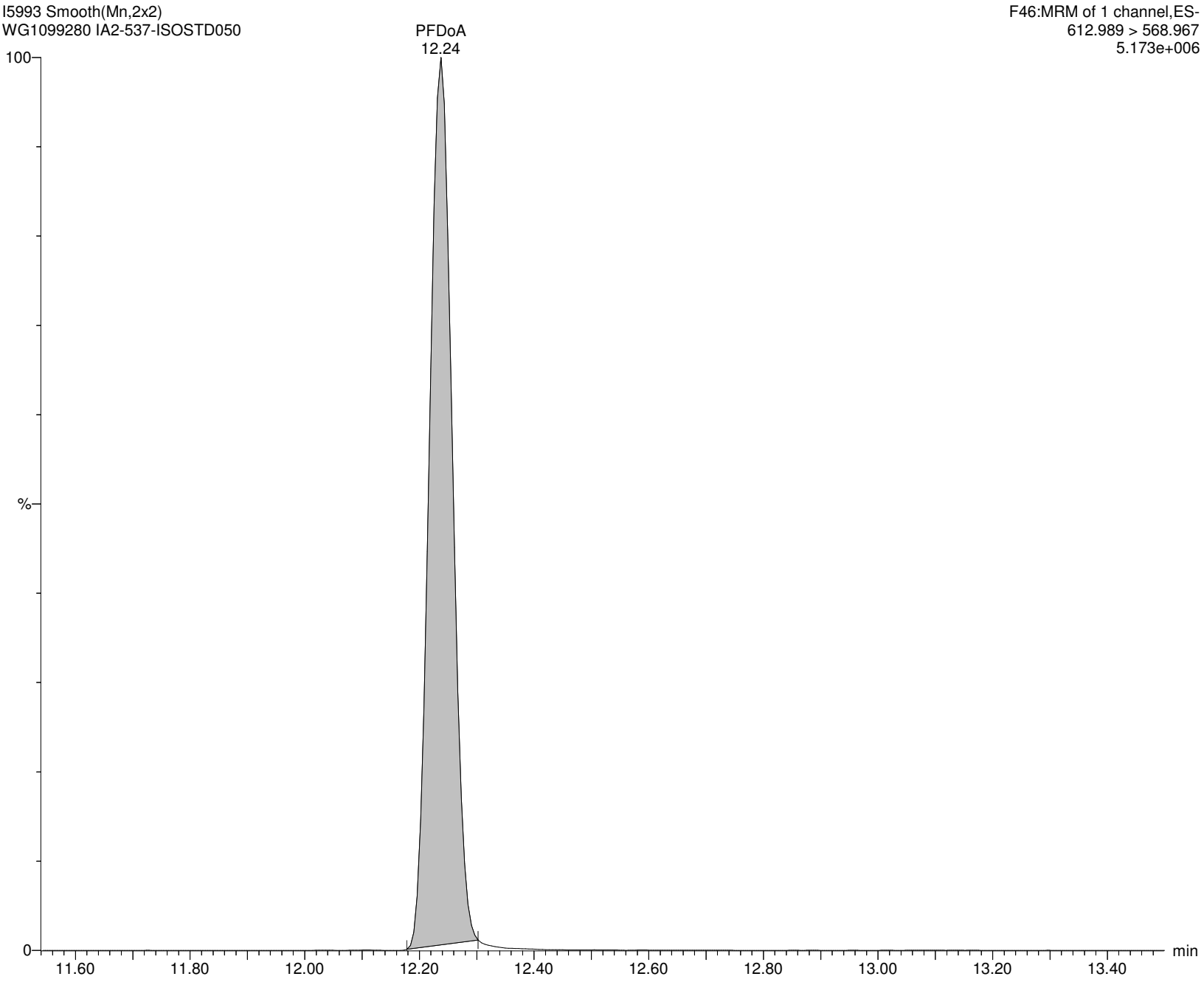

all concentration units in (ng/mL)

Alpha Analytical Inc.
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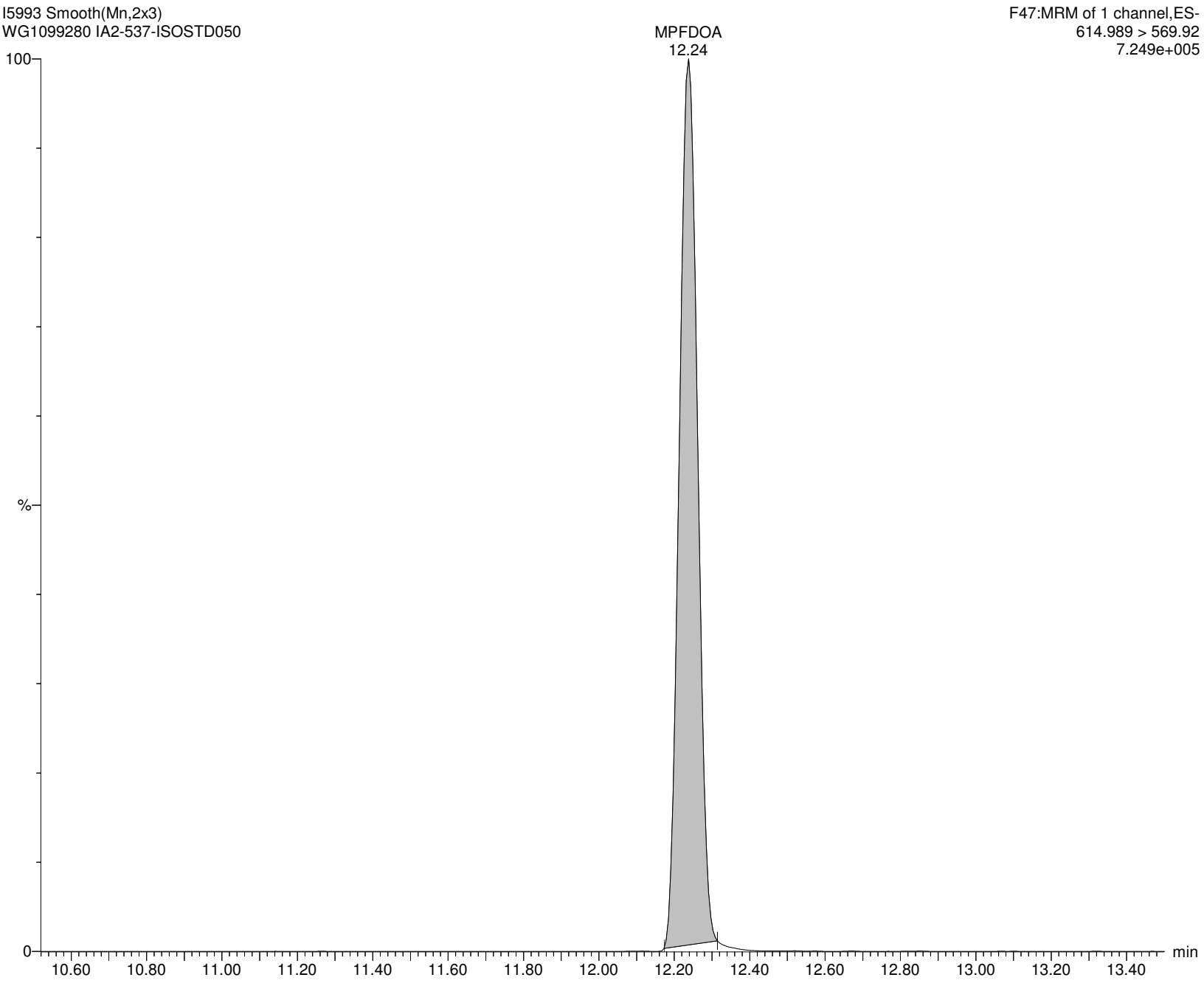

all concentration units in (ng/mL)

Alpha Analytical Inc.
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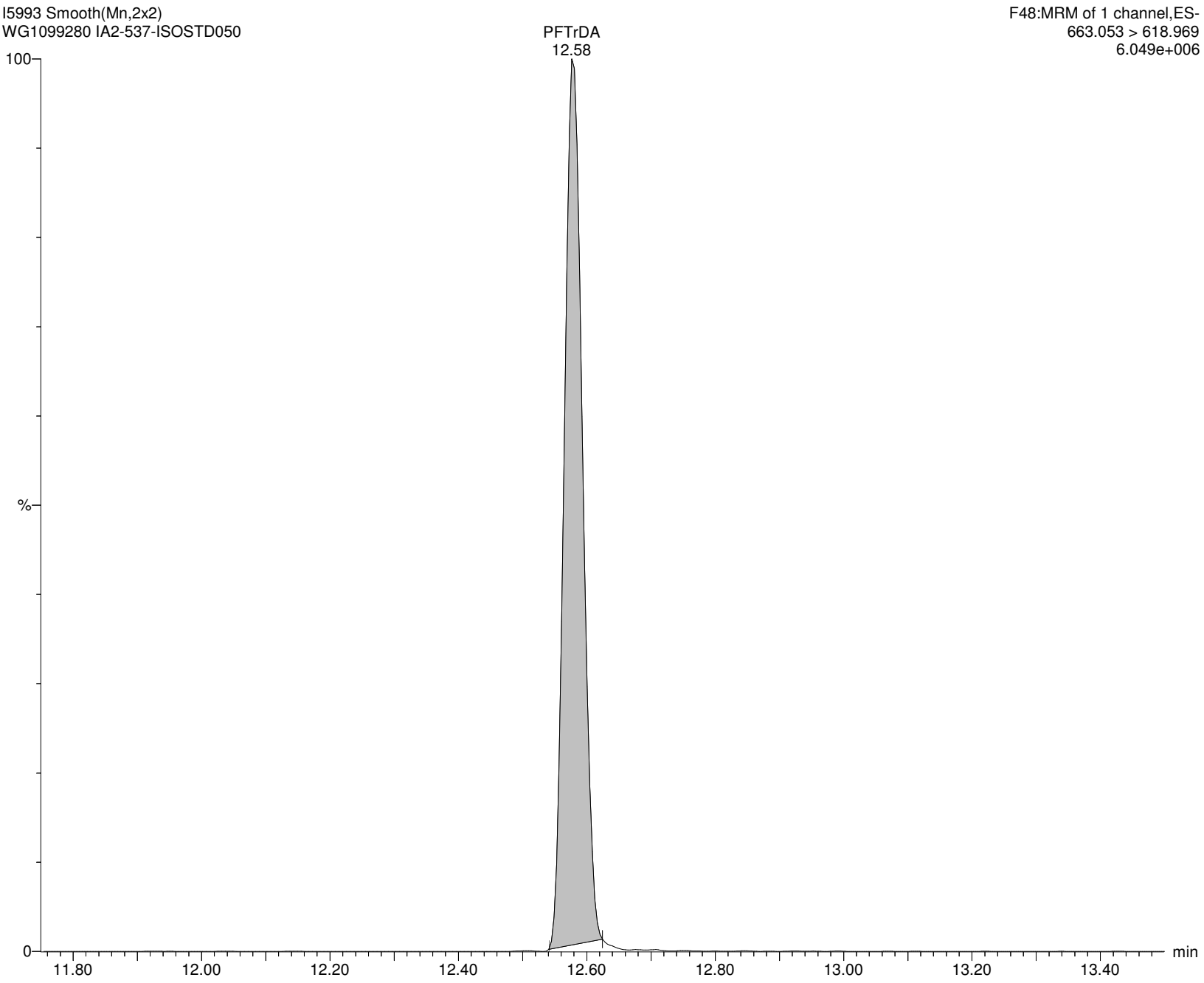

all concentration units in (ng/mL)

Alpha Analytical Inc.
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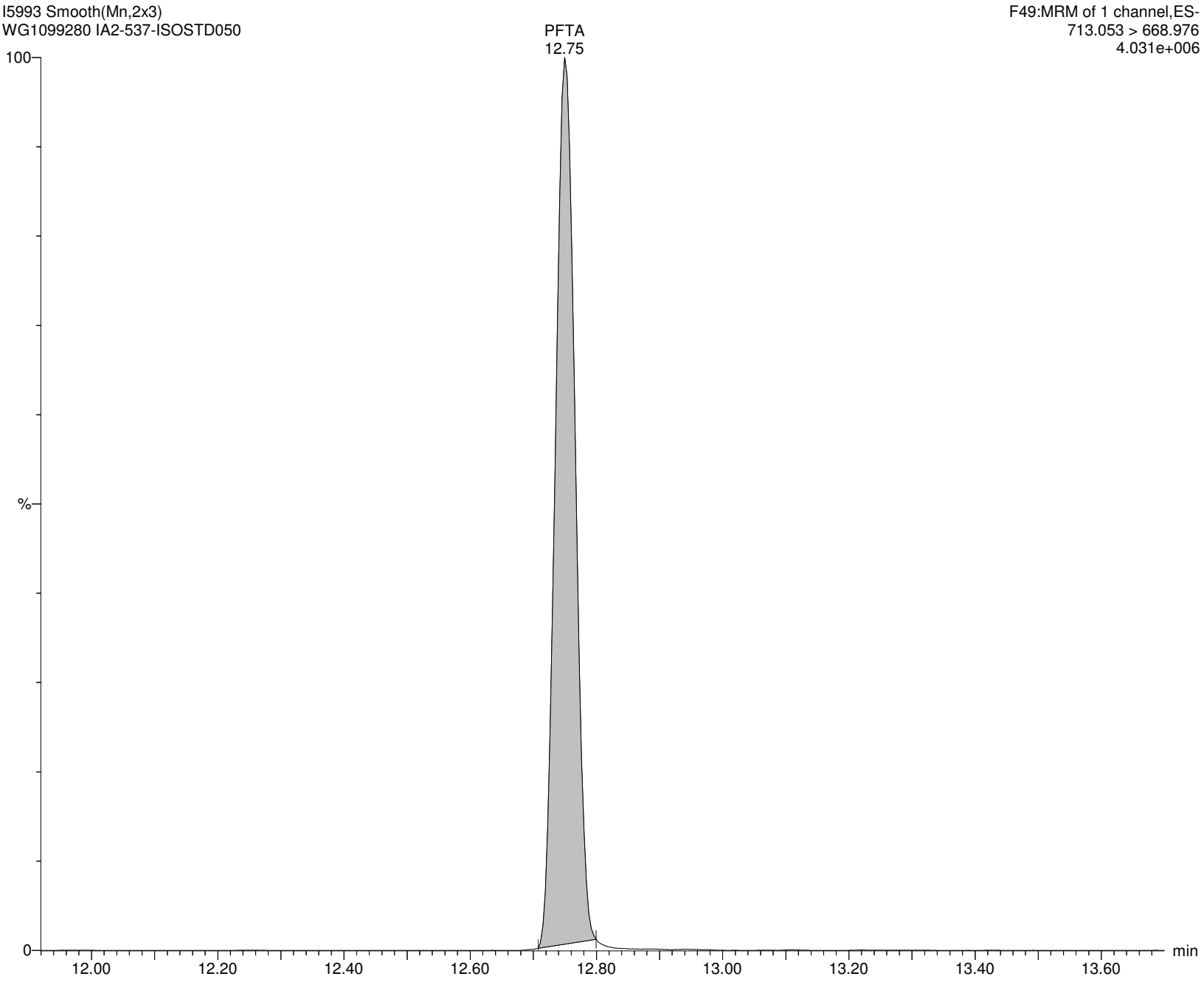

all concentration units in (ng/mL)

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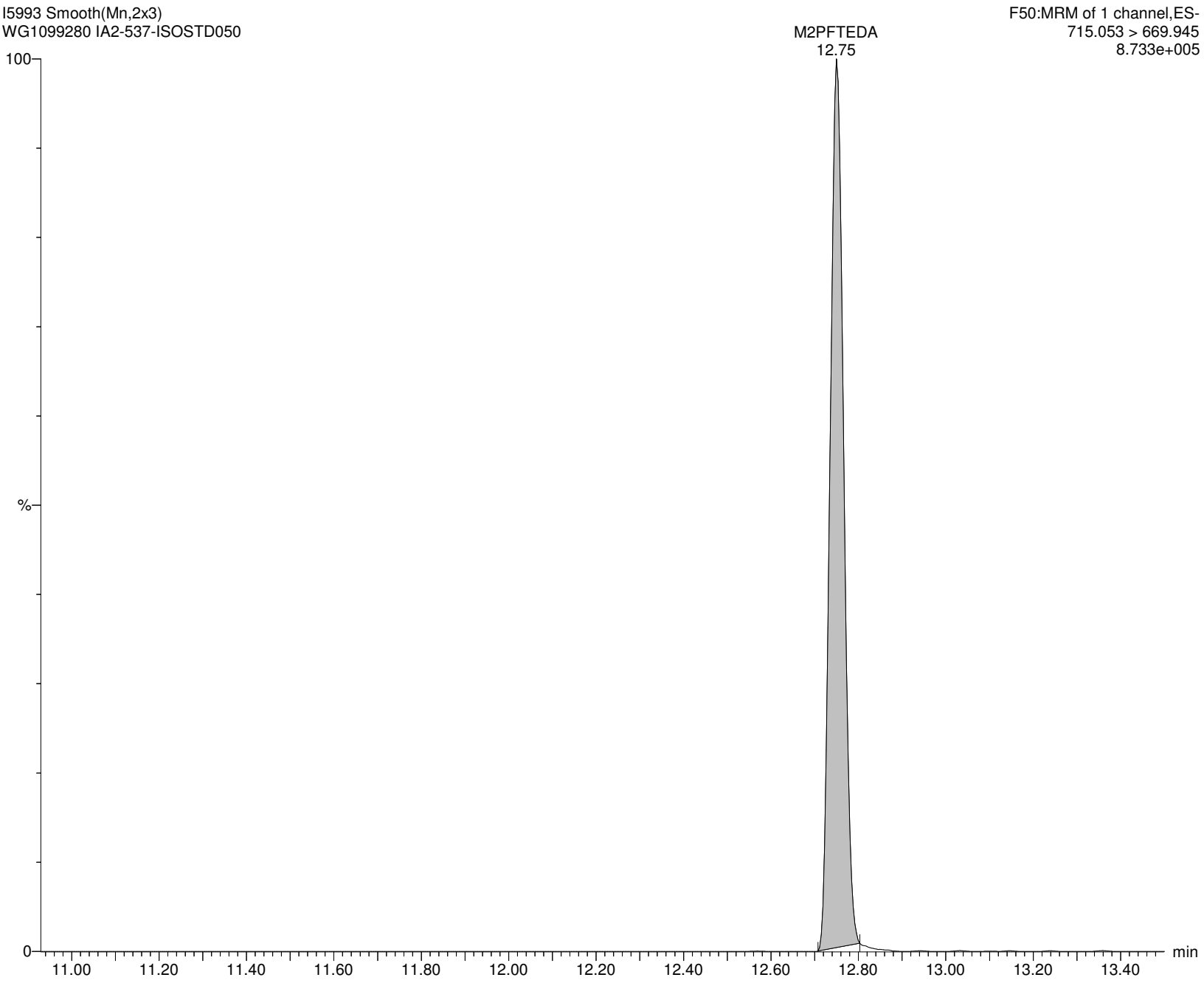

all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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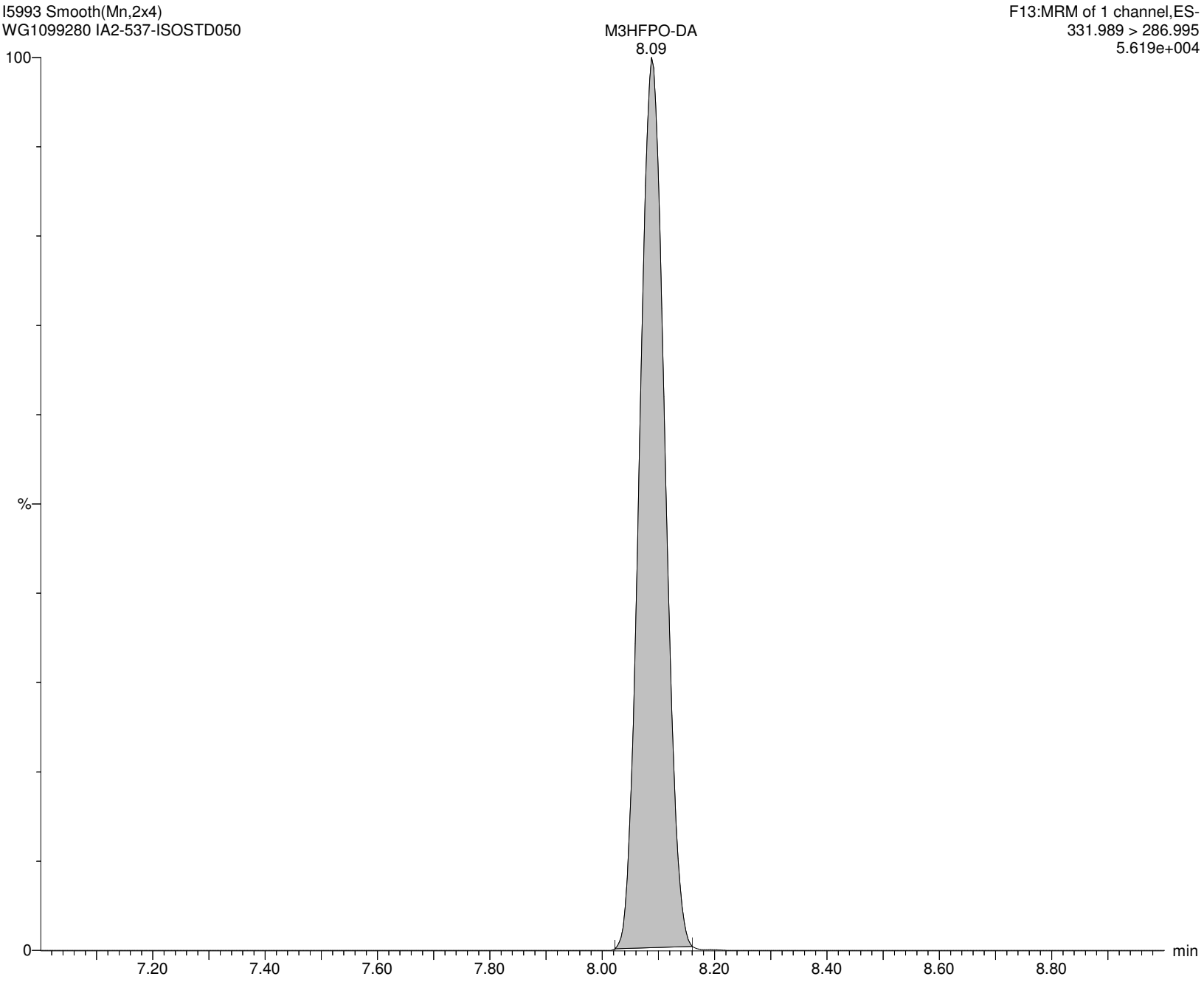

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:52 Eastern Daylight Time

Name: I5993
ID: IA2-537-ISOSTD050
Date: 21-Mar-2018
Time: 17:15:03
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,6
Instrument: XEVO-TQSmicro#QEA0276
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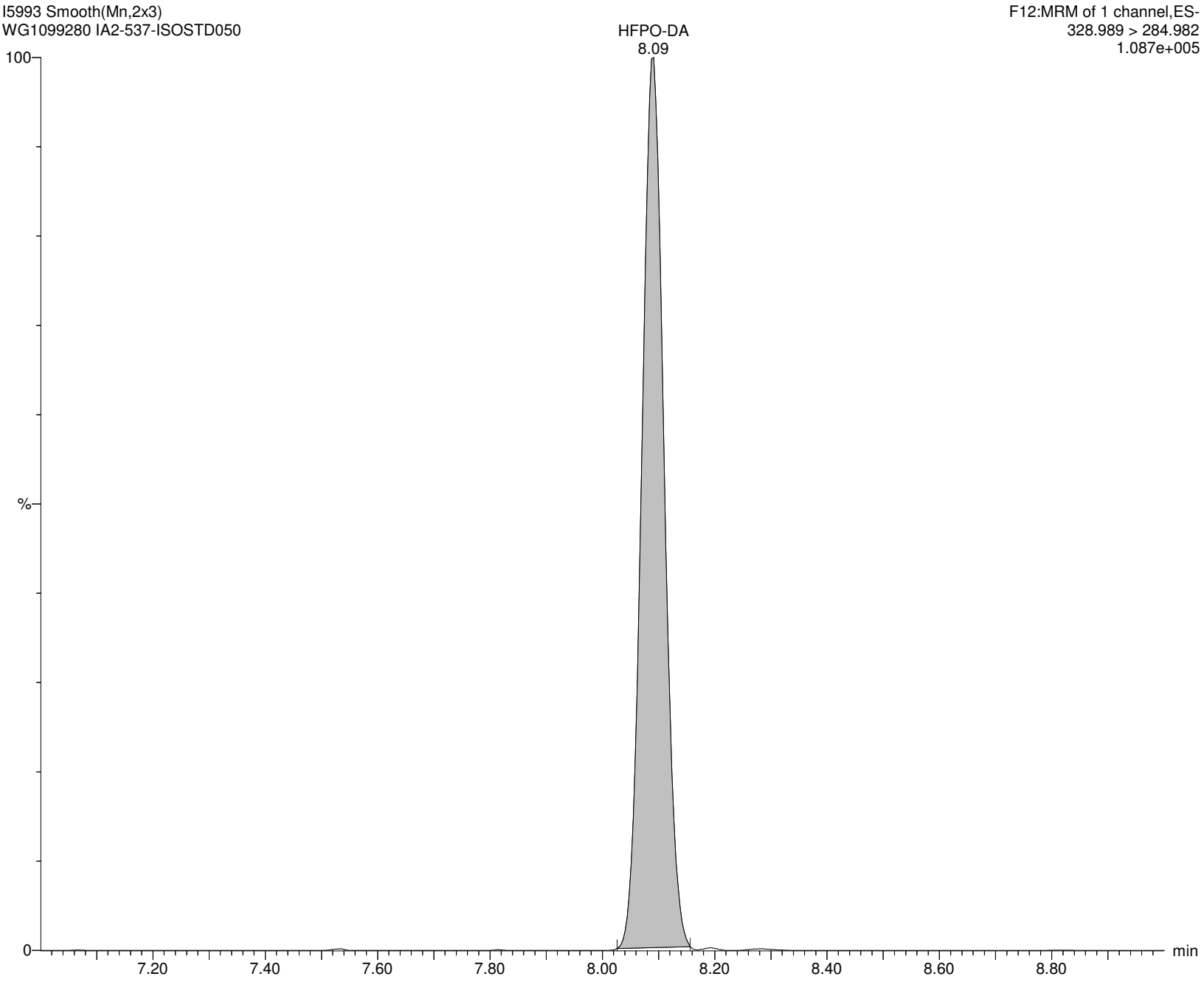

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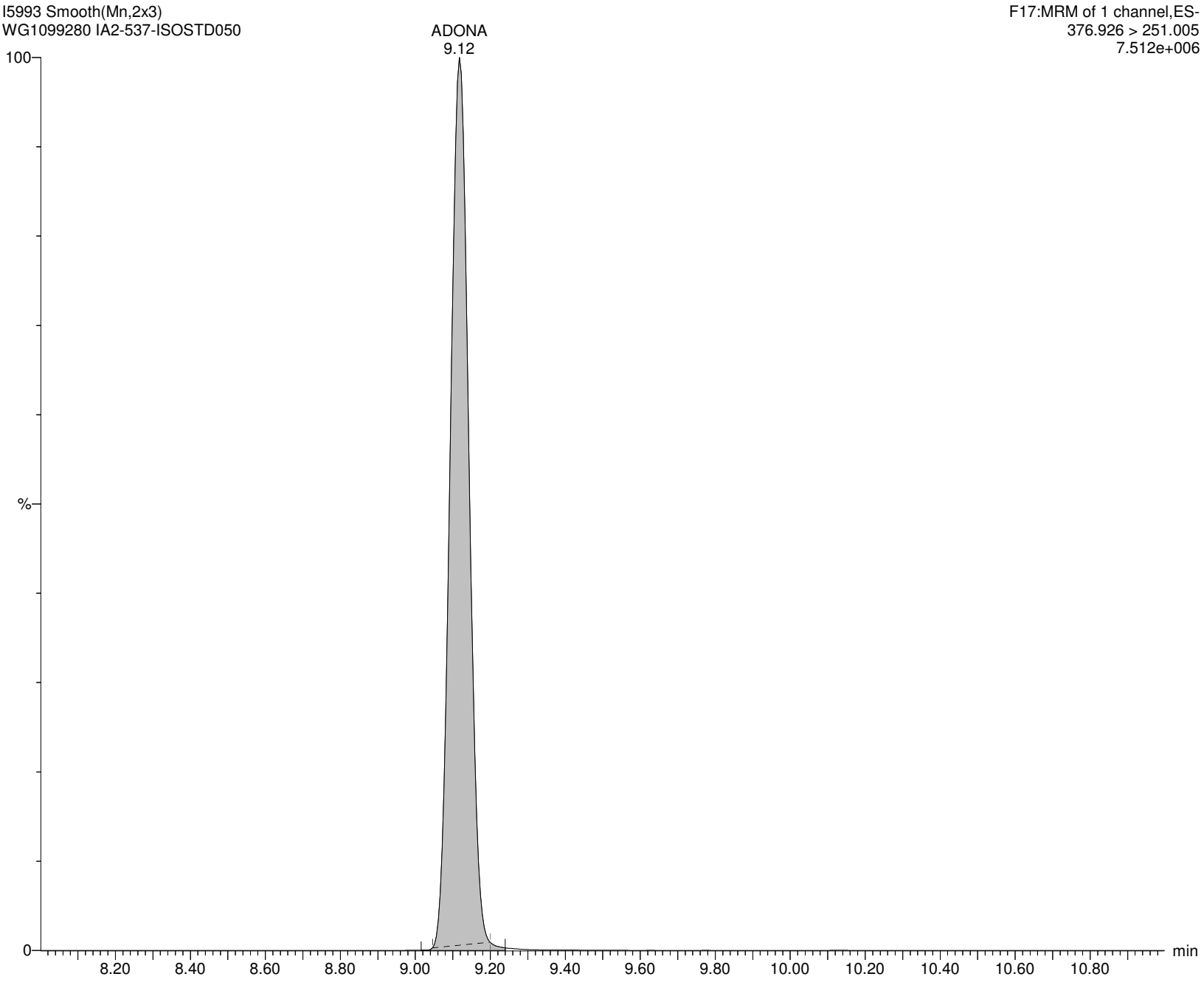

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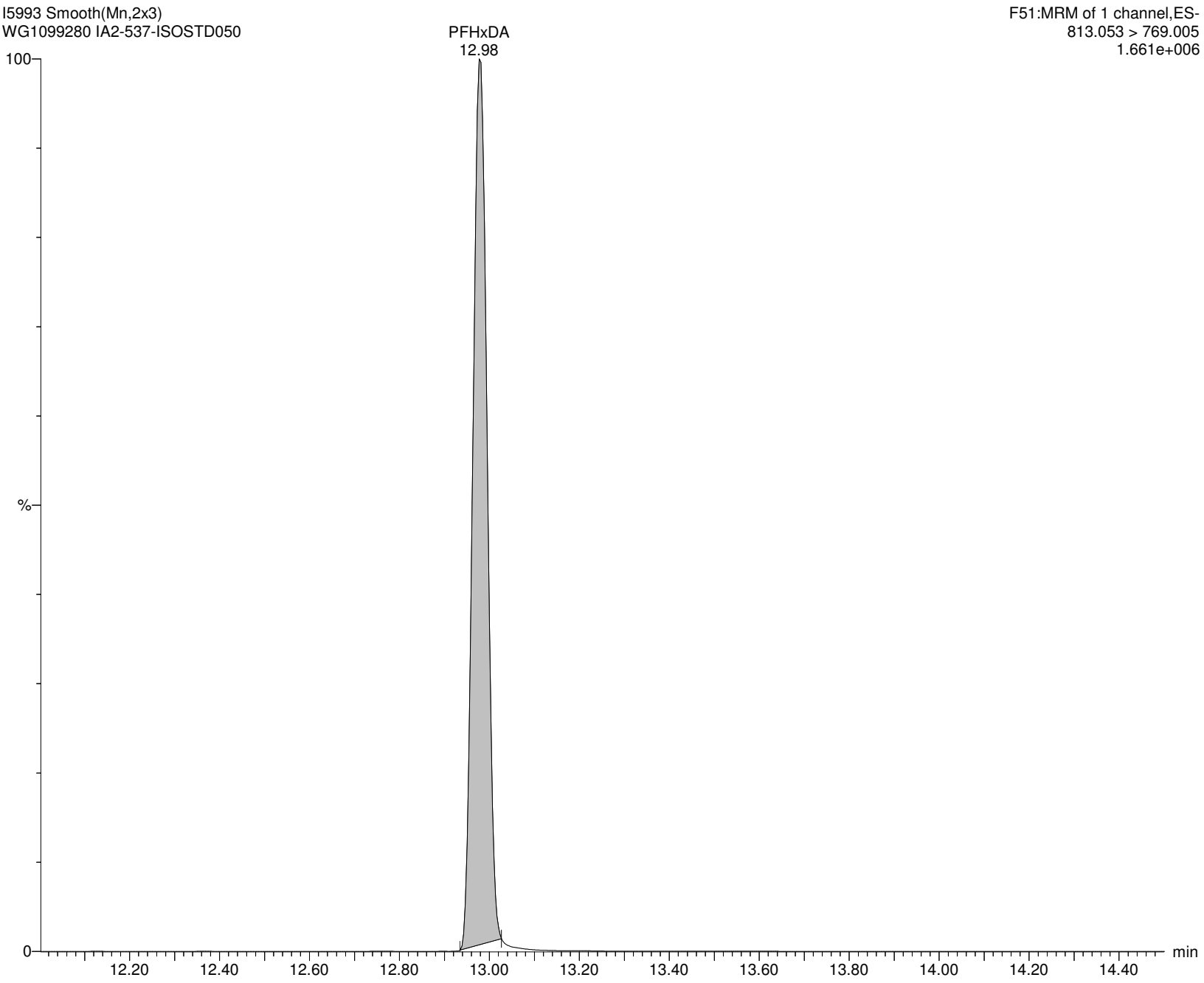

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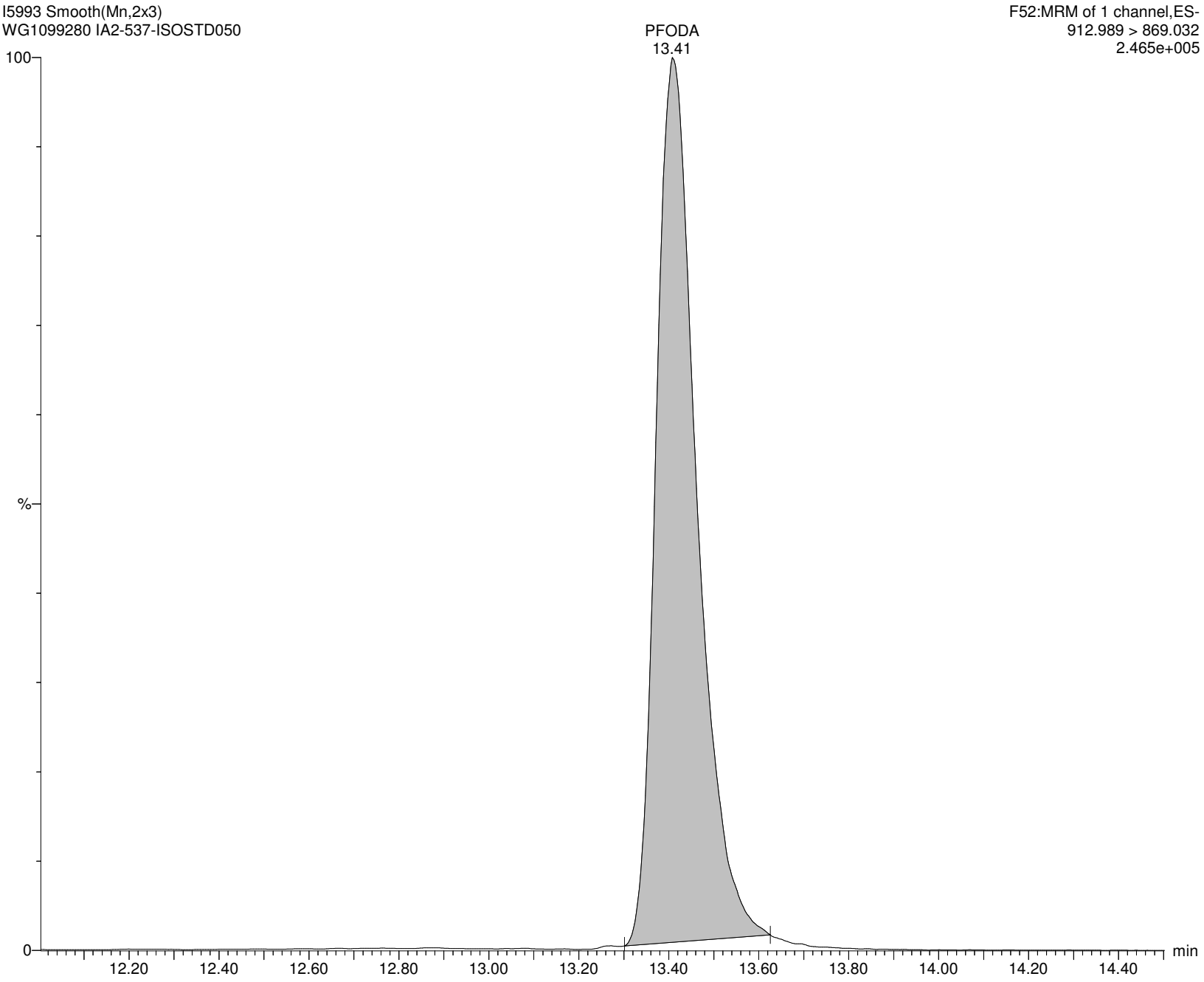

all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: IA2-537-ISOSTD125
Name: I5995
Date: 21-Mar-2018
Time: 17:48:08
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	488510		124.237		na	99.4
2	M3PFBA	INT STD	2.26	215.926 > 172.122	50780		10.175		na	101.8
3	MPFBA	INT STD	2.26	216.926 > 172.137	53419		9.414		na	94.1
4	PFPeA	2706-90-3	5.66	262.926 > 219.002	525875		123.046		na	98.4
5	M5PFPEA	INT STD	5.66	TIC	54357		9.293		na	92.9
6	PFBS	375-73-5	6.39	298.989 > 80.295	100423		110.295		na	99.7
7	M3PFBS	INT STD	6.40	301.989 > 80.254	9258		9.903		na	99.0
8	4:2FTS	757124-72-4	7.58	326.926 > 306.957	47999		114.878		na	98.3
9	M2-4:2FTS	INT STD	7.58	328.989 > 80.973	1253		10.386		na	103.9
10	PFHxA	307-24-4	7.65	312.989 > 269.028	614264		123.544		na	98.8
11	M5PFHxA	INT STD	7.65	317.989 > 273.045	55002		9.400		na	94.0
12	PFPeS	2706-91-4	7.98	348.926 > 80.251	89055		115.044		na	97.9
13	PFHpA	375-85-9	8.93	362.926 > 319.014	702832		123.490		na	98.8
14	M4PFHpA	INT STD	8.93	366.926 > 321.979	61909		9.316		na	93.2
15	br-PFHxS	355-46-4	8.87	398.926 > 80.295	18924		24.474		na	103.0
16	L-PFHxS	355-46-4	9.10	398.926 > 80.295	74462		98.502		na	97.3
17	PFHxS	355-46-4		398.926 > 80.295	93387		122.976		na	
18	M3PFHxS	INT STD	9.10	401.926 > 80.317	8009		9.312		na	93.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.86	412.989 > 368.9	688053		121.511		na	97.2
21	M2PFOA	INT STD	9.86	415.032 > 369.968	60789		9.823		na	98.2
22	PFOA	335-67-1		412.989 > 368.9	688053		121.511		na	
23	M8PFOA	INT STD	9.86	420.989 > 375.979	54630		9.253		na	92.5
24	6:2FTS	27619-97-2	9.83	426.989 > 406.921	41638		113.643		na	95.7
25	M2-6:2FTS	INT STD	9.83	428.989 > 408.917	5712		12.547		na	125.5
26	PFHpS	375-92-8	9.96	448.926 > 80.257	51834		114.404		na	96.3
27	PFNA	375-95-1	10.60	462.989 > 418.931	520602		125.555		na	100.4
28	M9PFNA	INT STD	10.60	472.053 > 426.947	49752		8.967		na	89.7
29	br-PFOS	1763-23-1	10.46	498.989 > 80.294	22182		24.450		na	97.8
30	L-PFOS	1763-23-1	10.65	498.989 > 80.294	61120		95.319		na	96.5
31	PFOS	1763-23-1		498.989 > 80.294	83302		119.770		na	
32	M4PFOS	INT STD	10.65	503.032 > 80.306	5696		9.394		na	93.9
33	M8PFOS	INT STD	10.65	507.053 > 80.294	6549		9.416		na	94.2
34	PFDA	335-76-2	11.22	513.053 > 468.906	444849		122.618		na	98.1
35	M2PFDA	INT STD	11.22	515.053 > 469.934	37807		9.018		na	90.2
36	M6PFDA	INT STD	11.22	519.053 > 473.931	42674		9.348		na	93.5
37	8:2FTS	39108-34-4	11.21	526.989 > 506.946	23369		110.637		na	92.2
38	M2-8:2FTS	INT STD	11.21	529.117 > 80.953	621		8.831		na	88.3
39	PFNS	68259-12-1	11.25	548.989 > 80.249	57266		114.733		na	95.6

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:54 Eastern Daylight Time

ID: IA2-537-ISOSTD125
Name: I5995
Date: 21-Mar-2018
Time: 17:48:08
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.56	573.096 > 418.987	5952		10.197		na	102.0
41	NMeFOSAA	2355-31-9	11.56	570.053 > 418.917	74043		118.416		na	94.7
42	PFUnA	2058-94-8	11.76	562.989 > 518.903	414573		127.311		na	101.8
43	M7-PFUDA	INT STD	11.76	570.053 > 524.923	31638		8.470		na	84.7
44	PFDS	335-77-3	11.78	598.926 > 80.314	62414		119.178		na	98.8
45	FOSA	754-91-6	11.68	497.989 > 78.245	208444		124.515		na	99.6
46	M8FOSA	INT STD	11.68	506.053 > 78.286	20501		10.178		na	101.8
47	d5-NEtFOSAA	INT STD	11.84	589.117 > 418.929	4843		8.758		na	87.6
48	NEtFOSAA	2991-50-6	11.85	583.989 > 418.927	56695		127.507		na	102.0
49	PFDoA	307-55-1	12.23	612.989 > 568.967	453770		121.853		na	97.5
50	MPFDOA	INT STD	12.23	614.989 > 569.92	38039		9.842		na	98.4
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	429649		122.165		na	97.7
52	PFTA	376-06-7	12.75	713.053 > 668.976	388176		131.340		na	105.1
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	34649		11.404		na	114.0
54	M3HFPO-DA	INT STD	8.08	331.989 > 286.995	4580		377.709		na	188.9
55	HFPO-DA	13252-13-6	8.08	328.989 > 284.982	18219		2331.604		na	93.3
56	ADONA	958445-44-8	9.12	376.926 > 251.005	977195		119.922		na	101.4
57	PFHxDA		12.97	813.053 > 769.005	133454		125.164		na	100.1
58	PFODA		13.37	912.989 > 869.032	84402		133.858		na	107.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Vial: 2:A,8
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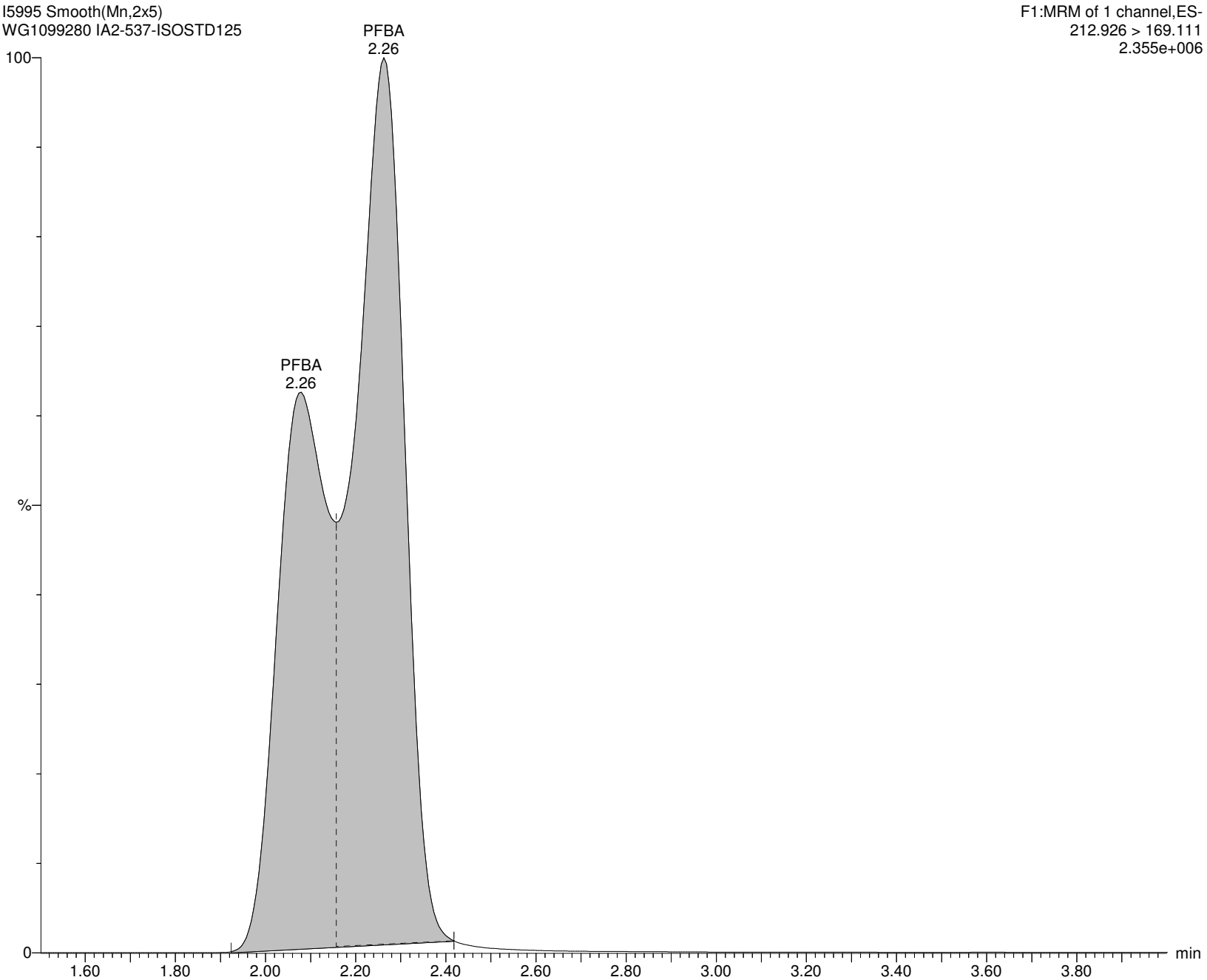

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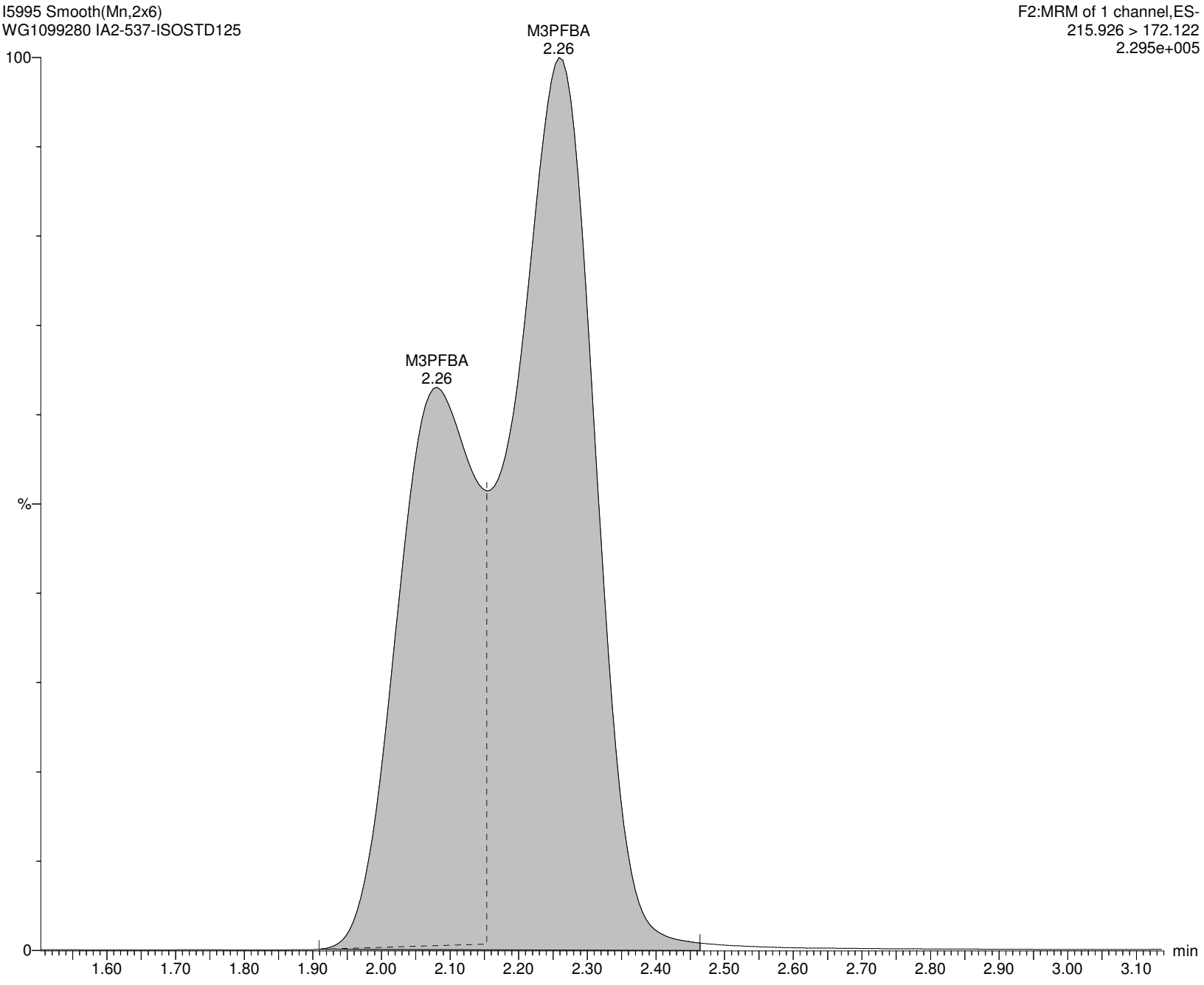

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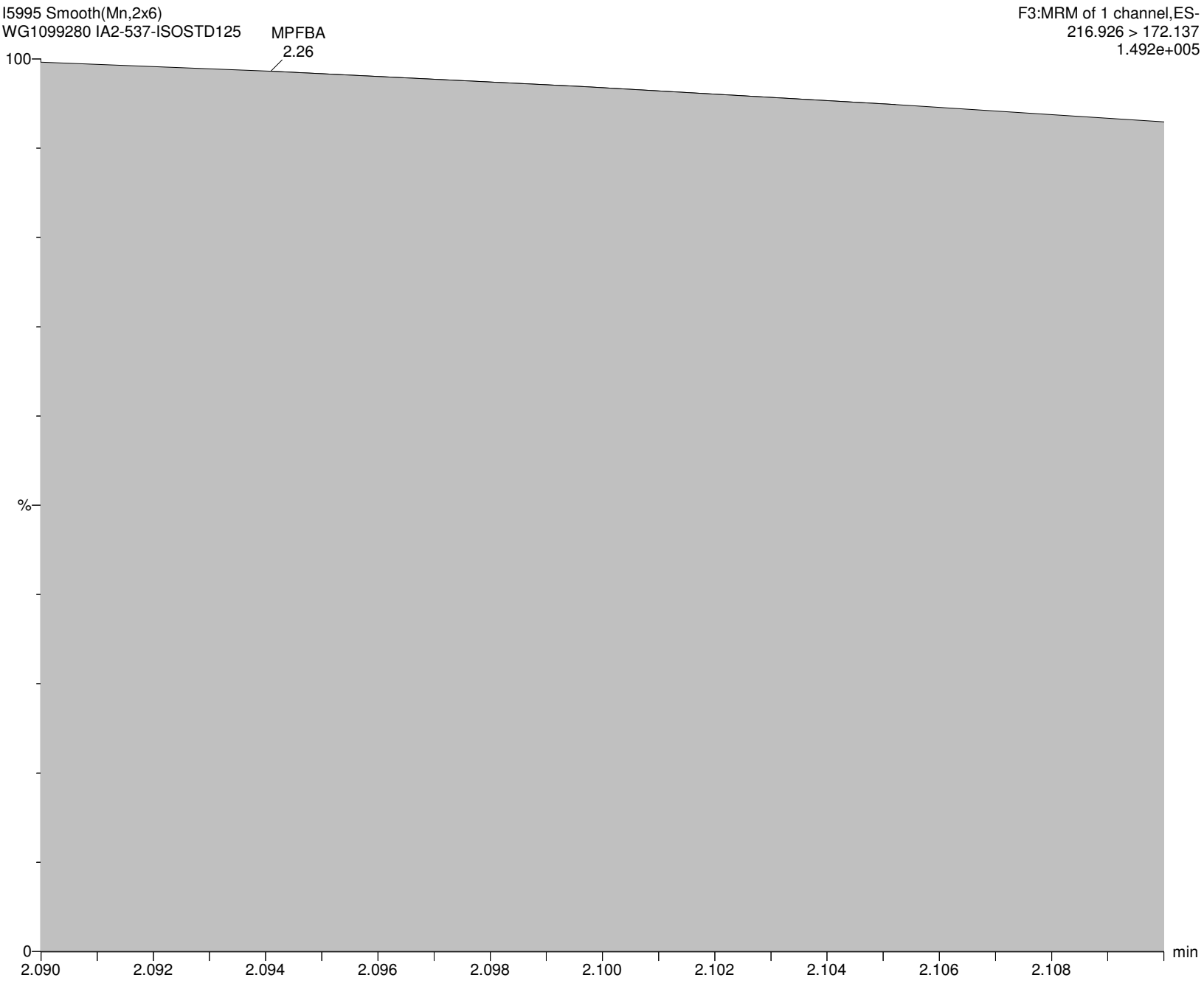

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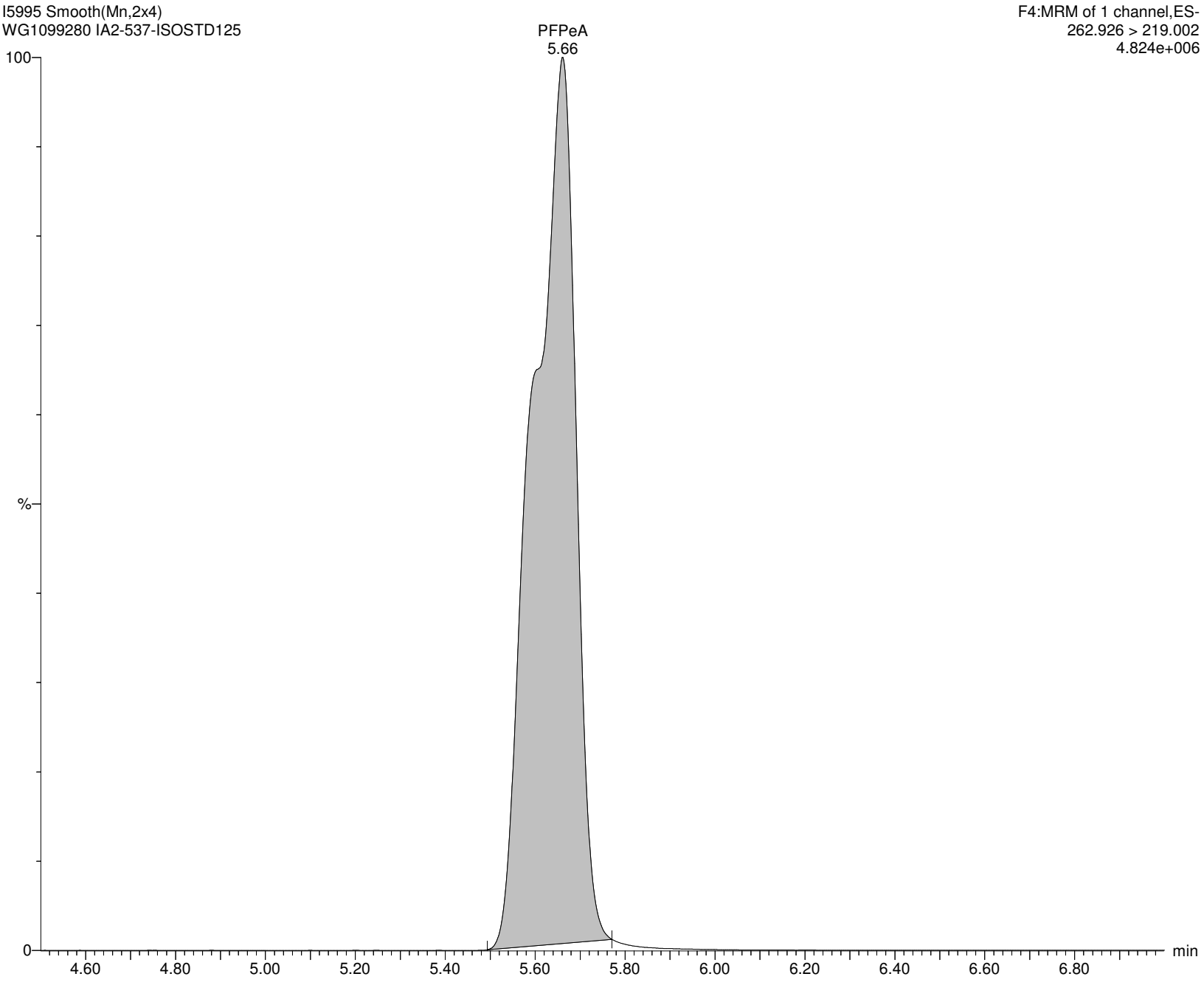

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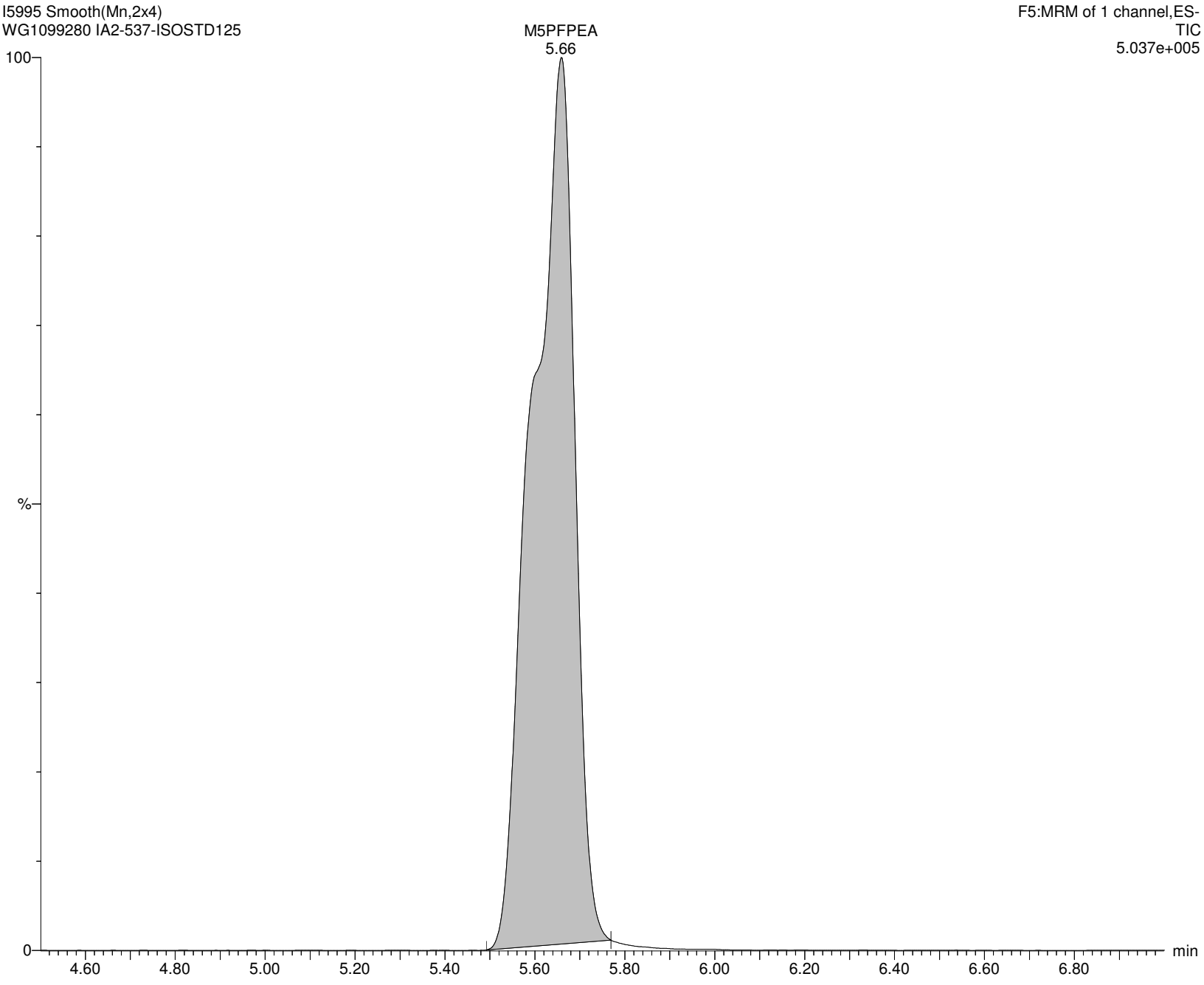

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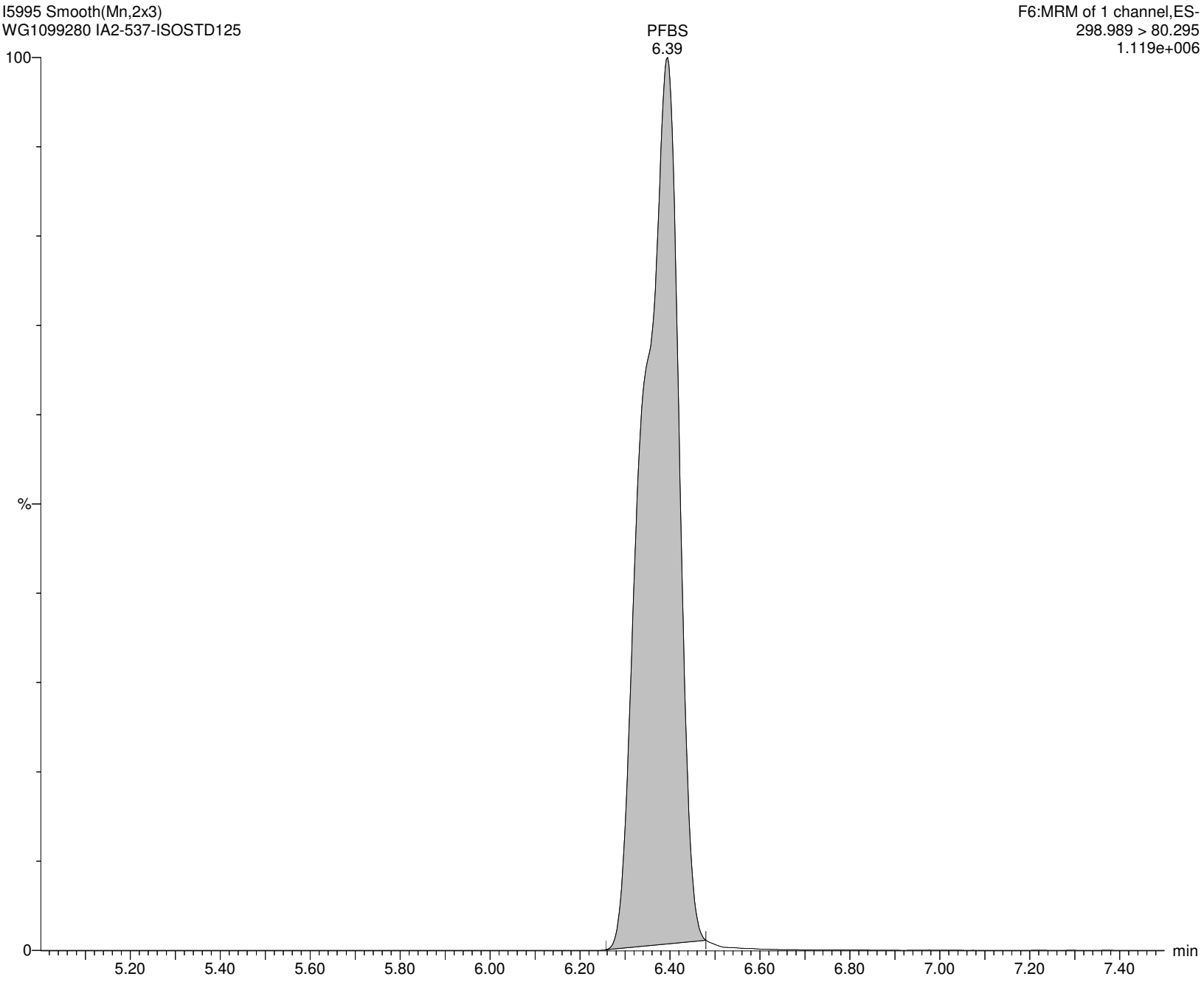
PFBS



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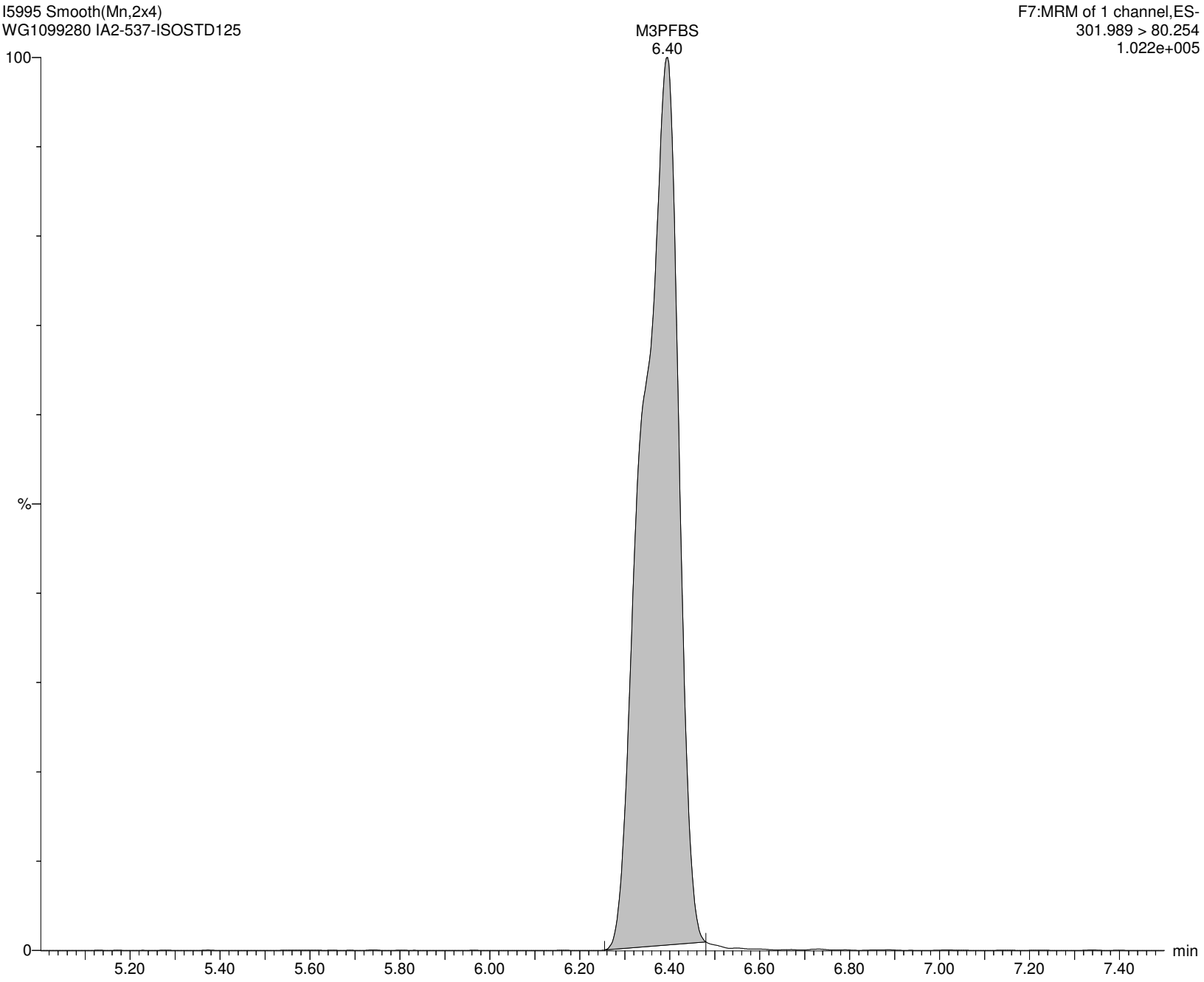
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:54 Eastern Daylight Time

Name: I5995
ID: IA2-537-ISOSTD125
Date: 21-Mar-2018
Time: 17:48:08
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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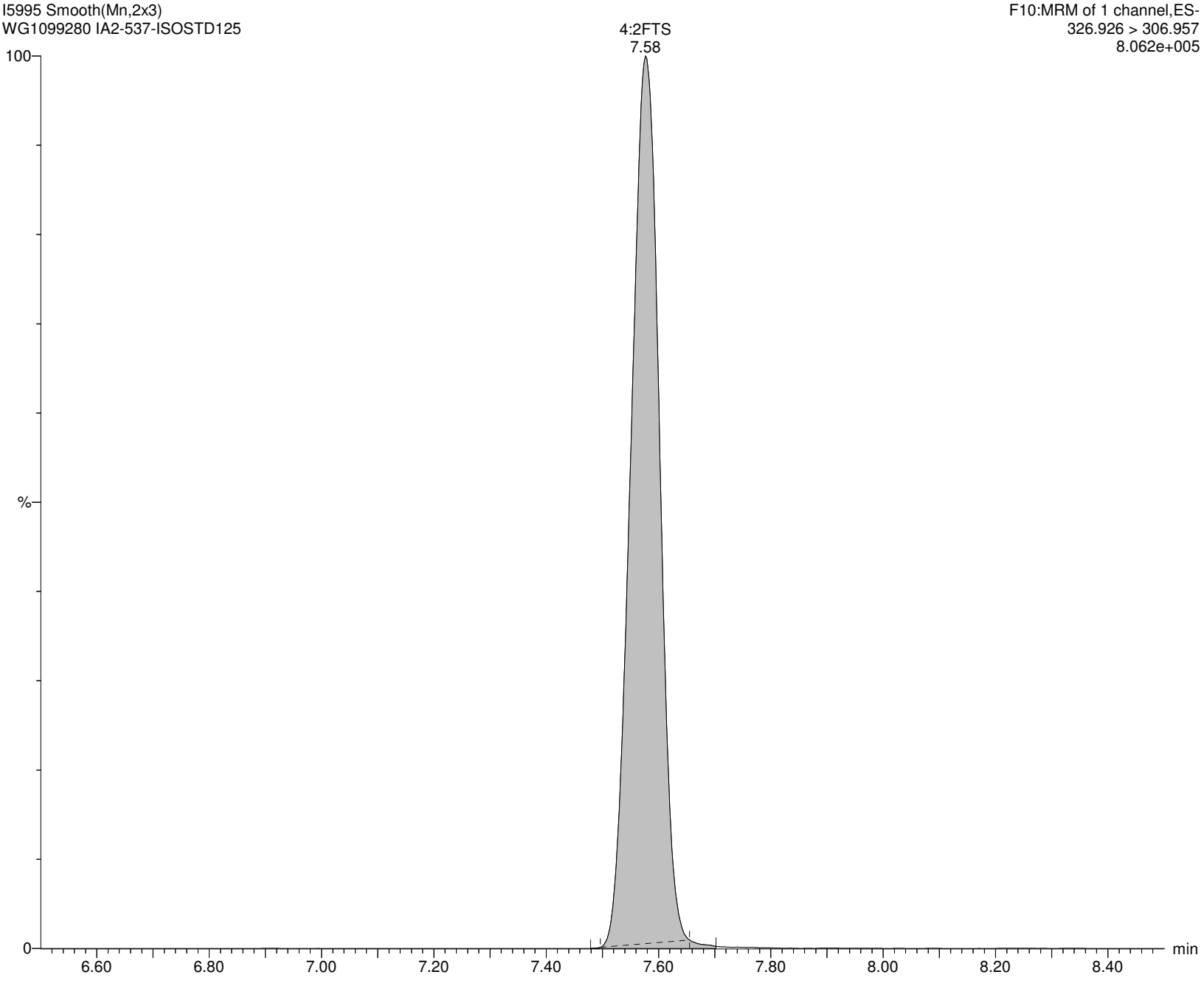

all concentration units in (ng/mL)

Alpha Analytical Inc.
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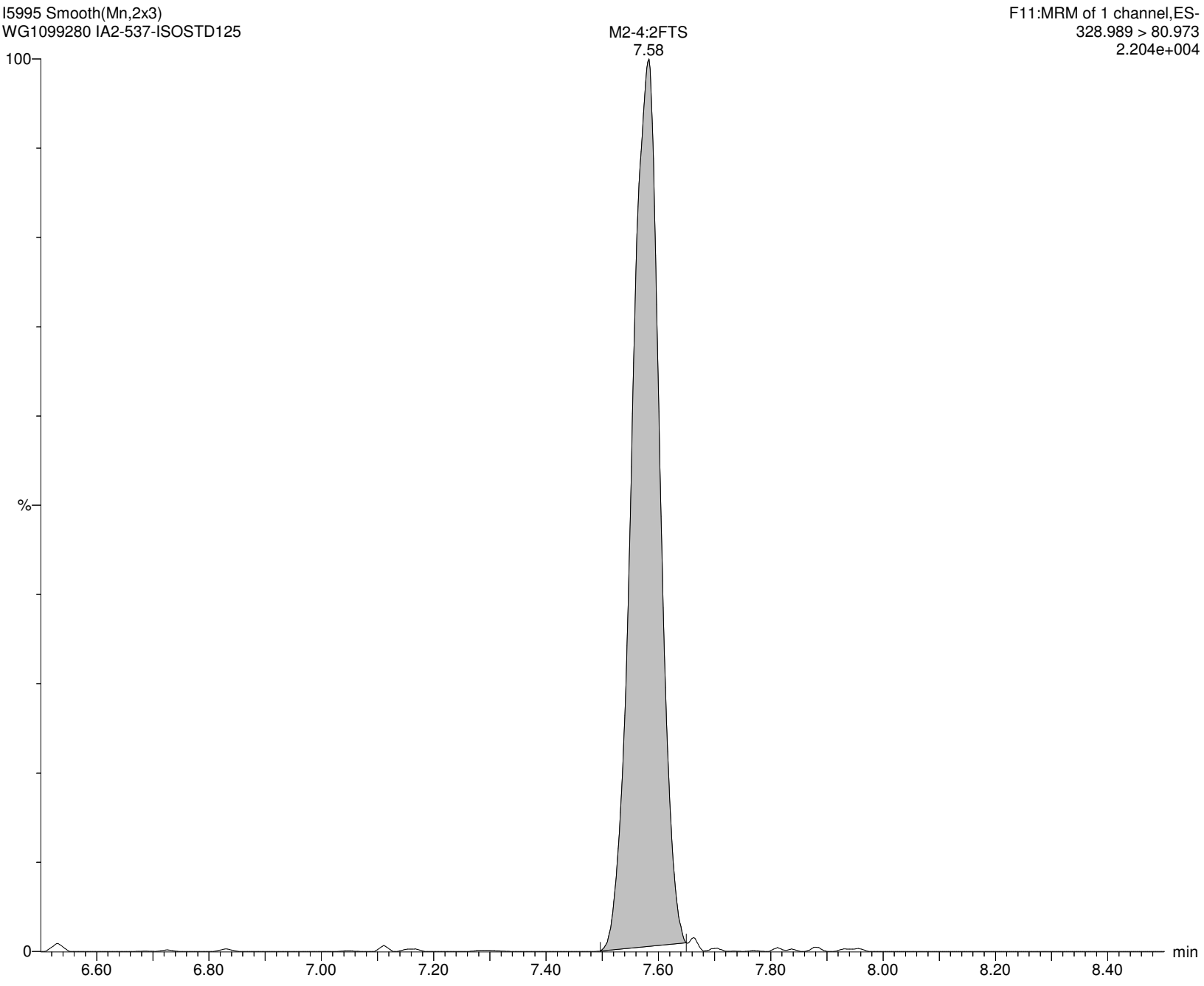

all concentration units in (ng/mL)

Alpha Analytical Inc.
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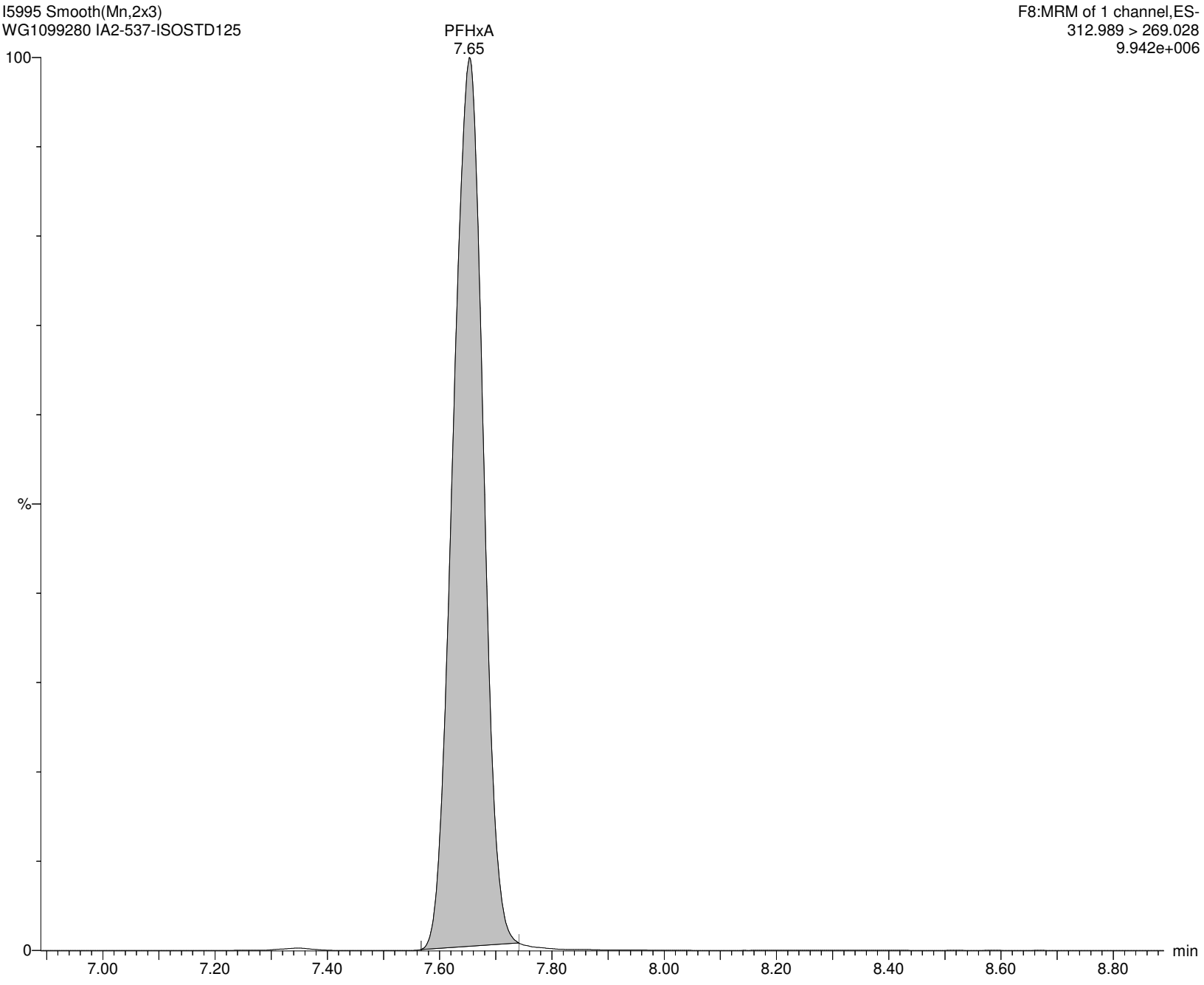

all concentration units in (ng/mL)

Alpha Analytical Inc.
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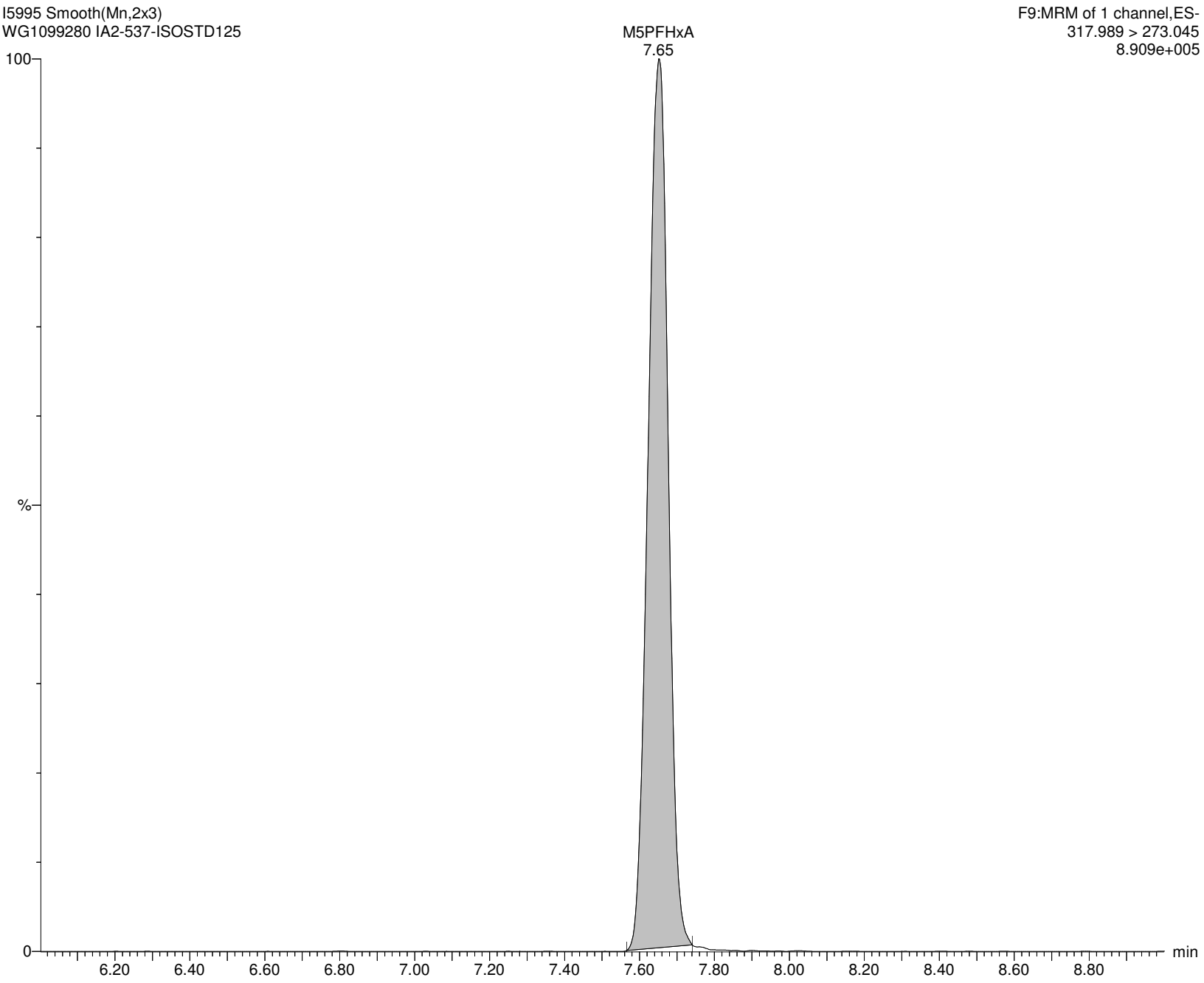

all concentration units in (ng/mL)

Alpha Analytical Inc.
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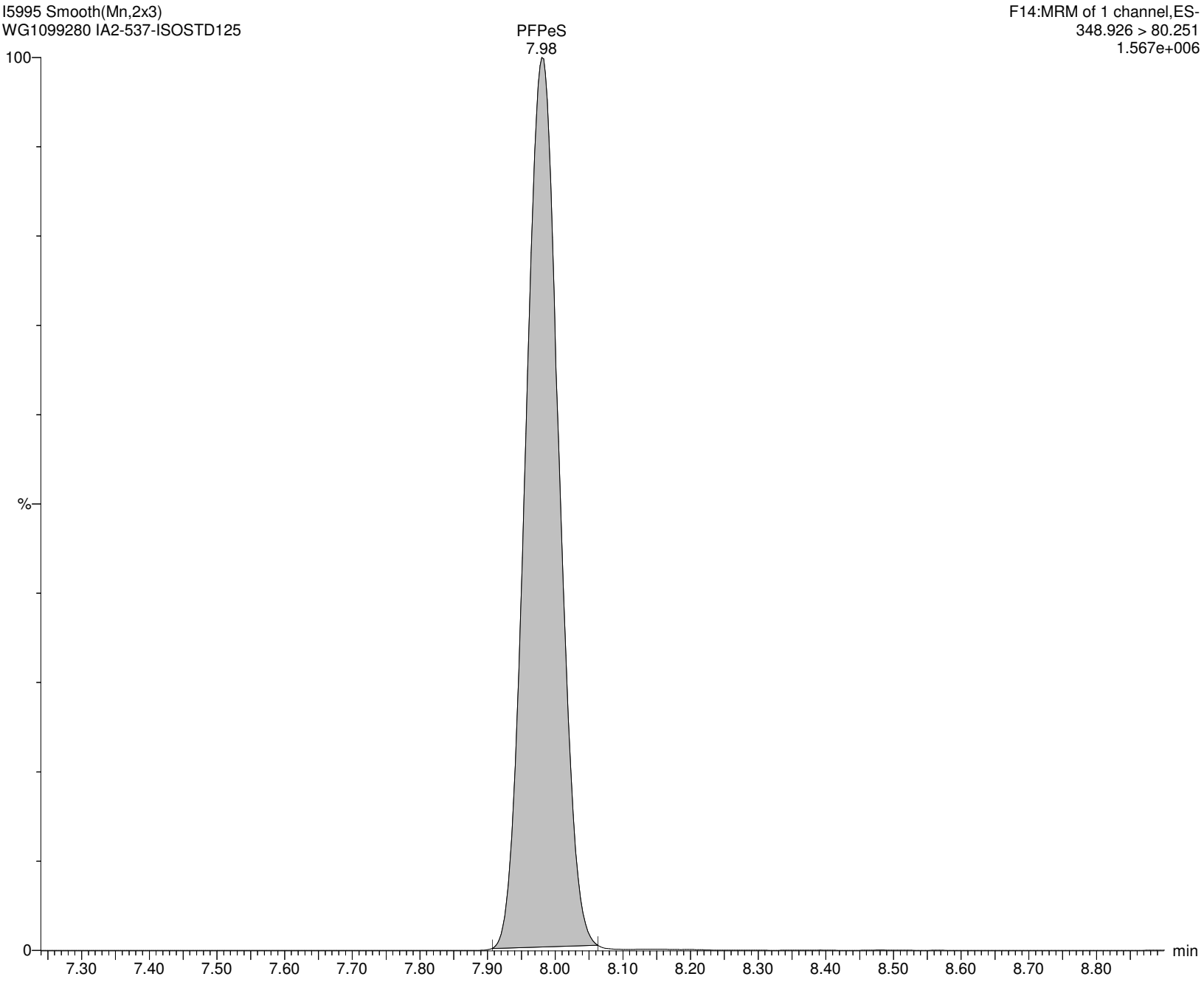

all concentration units in (ng/mL)

Alpha Analytical Inc.
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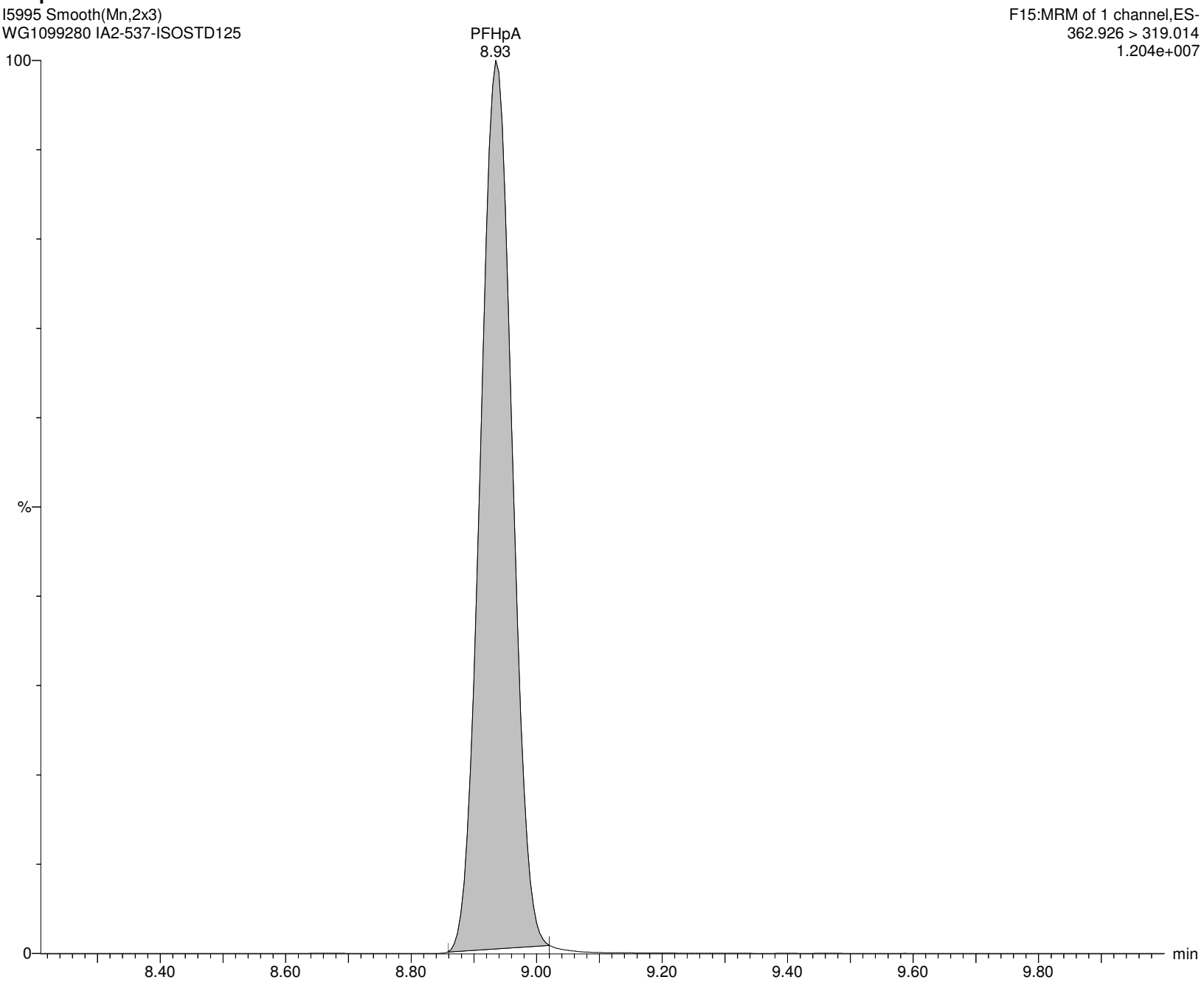

all concentration units in (ng/mL)

Alpha Analytical Inc.
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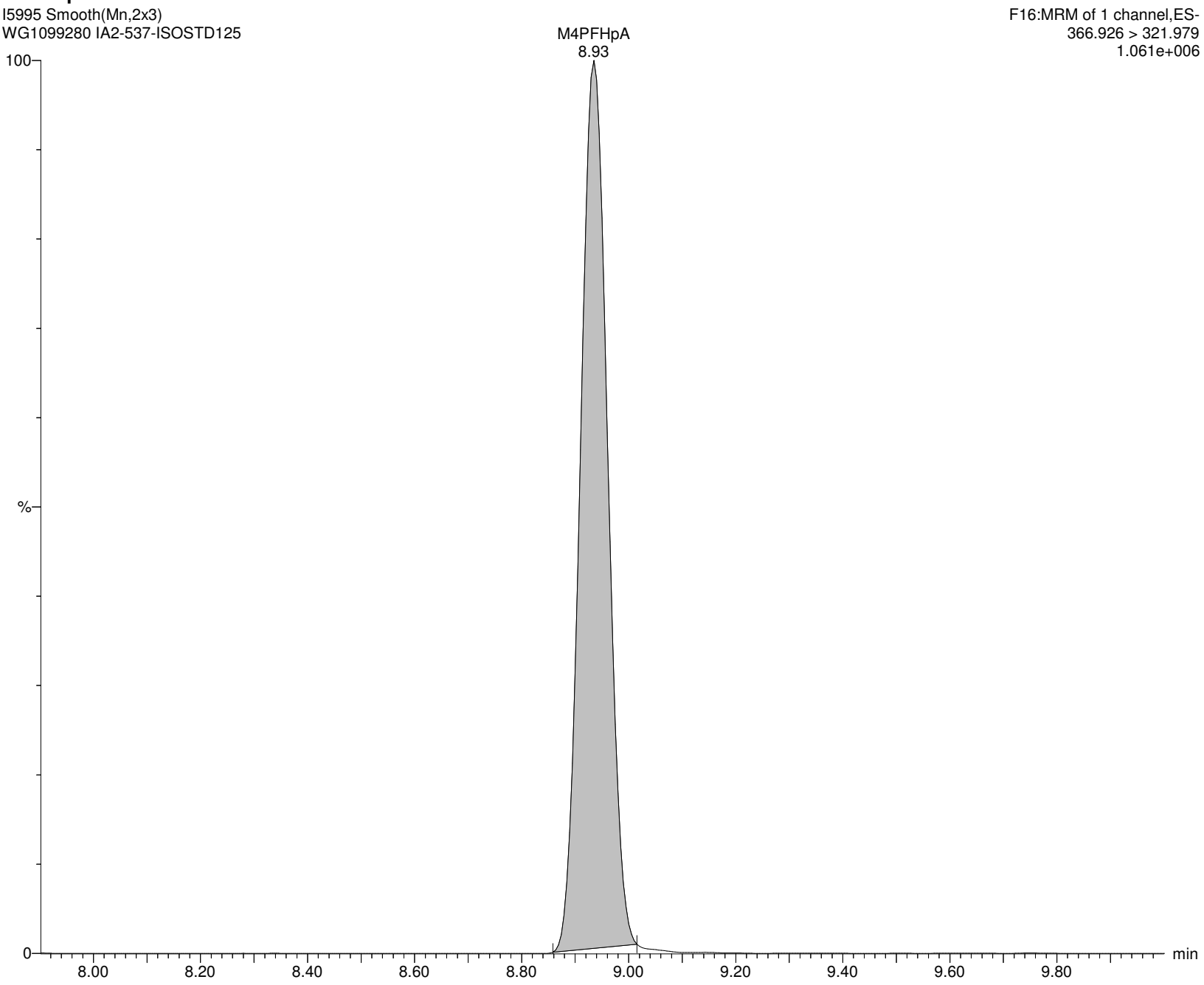

all concentration units in (ng/mL)

Alpha Analytical Inc.
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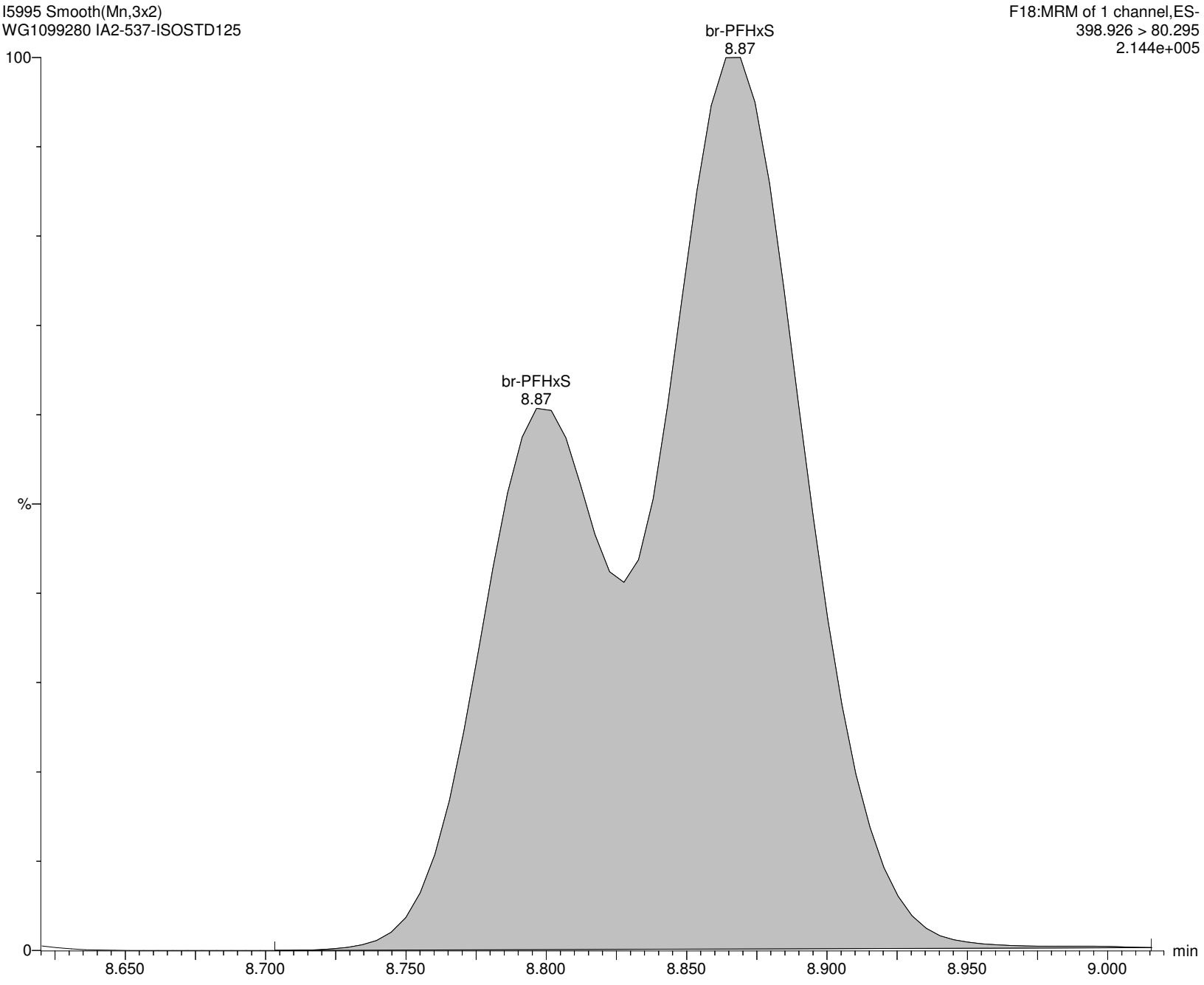

all concentration units in (ng/mL)

Alpha Analytical Inc.
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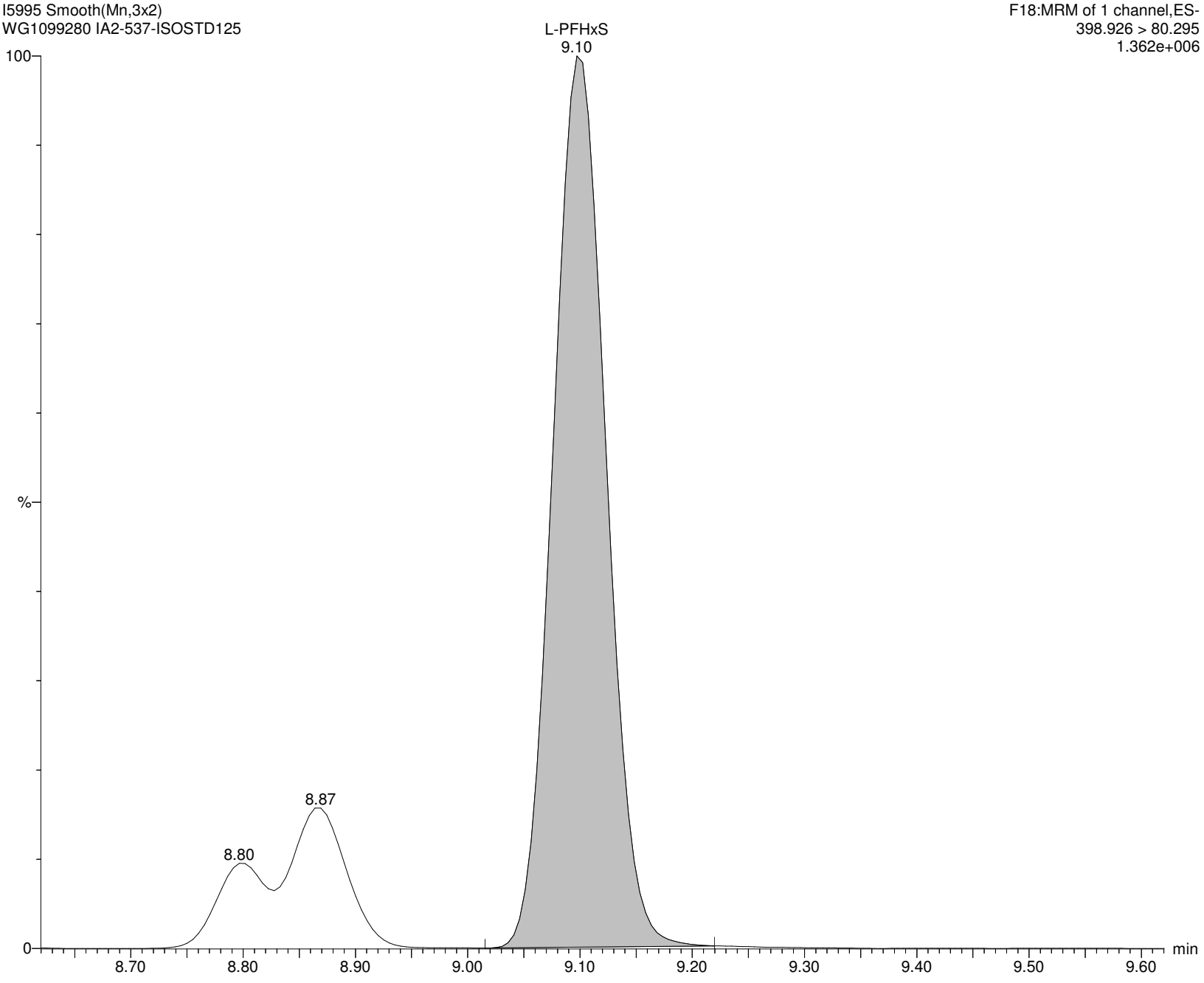

all concentration units in (ng/mL)

Alpha Analytical Inc.
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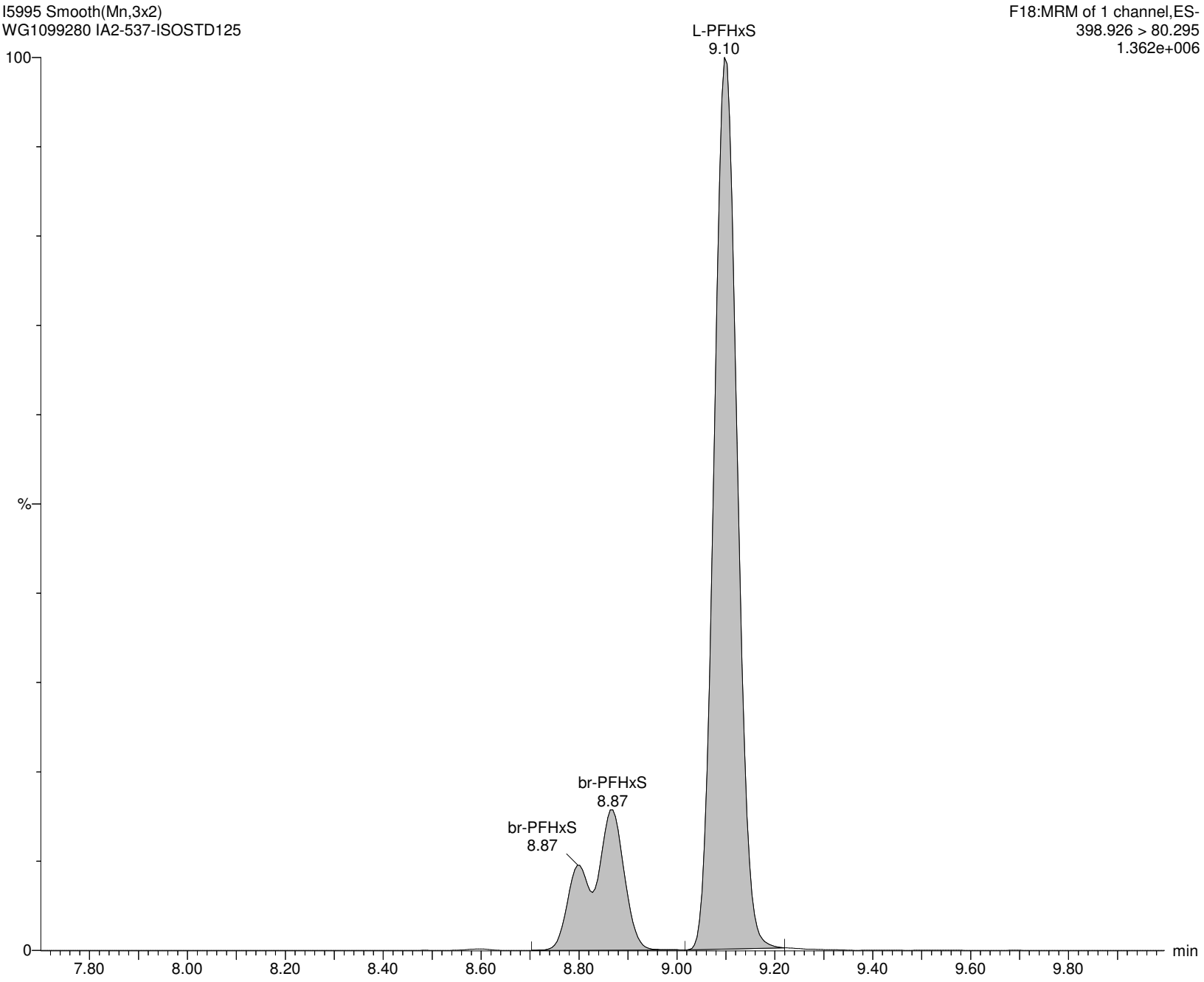

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Name: I5995
ID: IA2-537-ISOSTD125
Date: 21-Mar-2018
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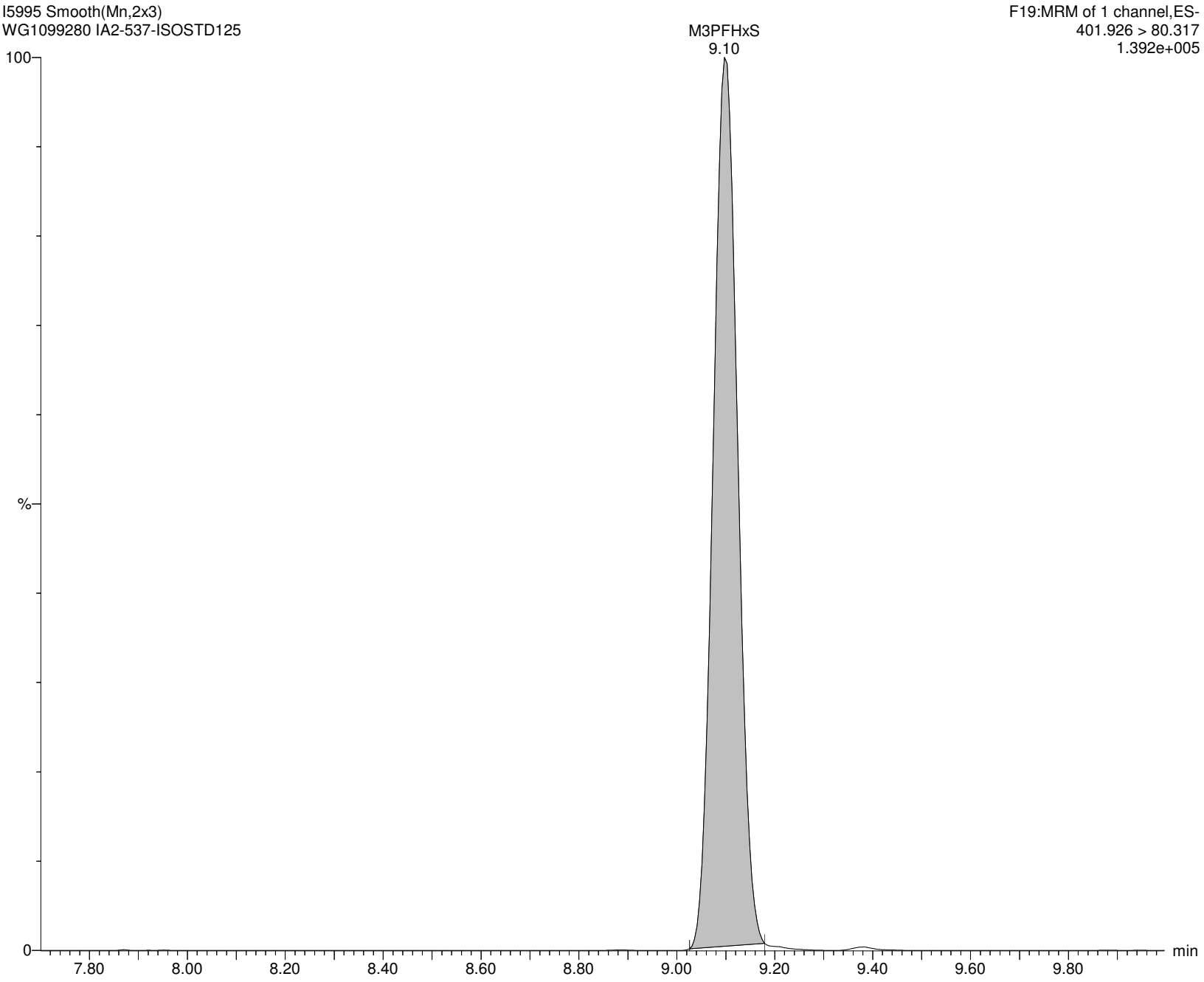

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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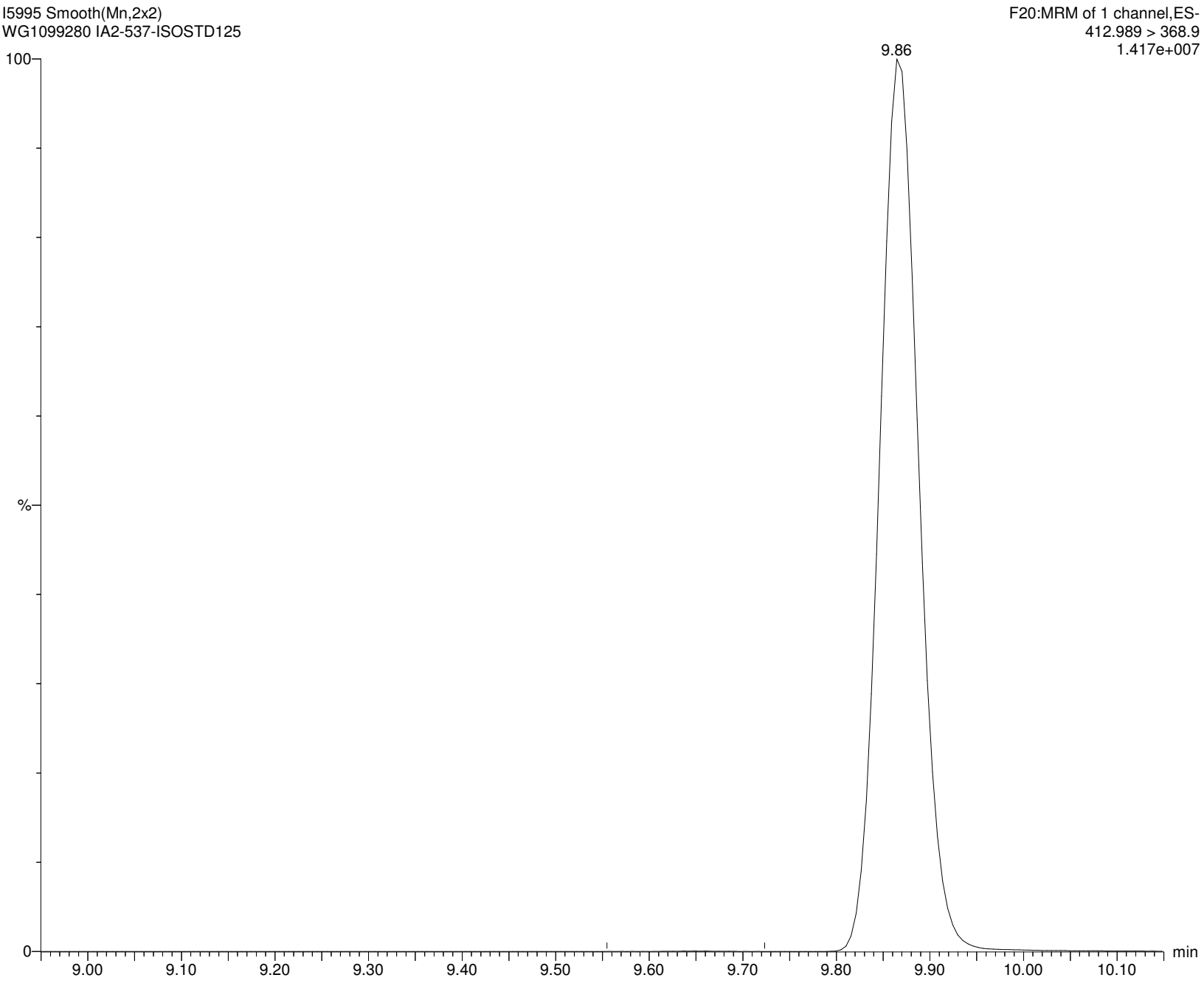

all concentration units in (ng/mL)

Alpha Analytical Inc.
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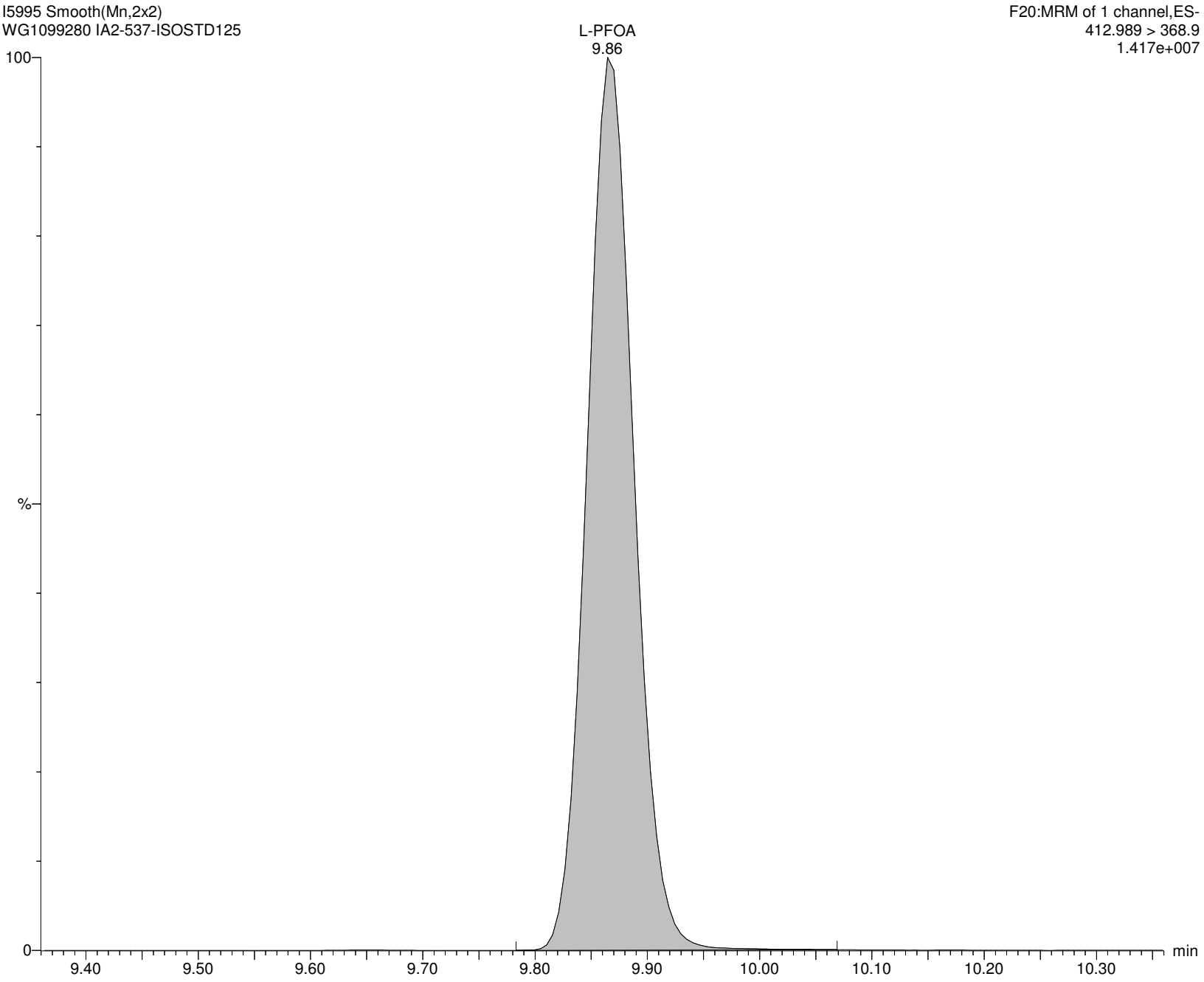

all concentration units in (ng/mL)

Alpha Analytical Inc.
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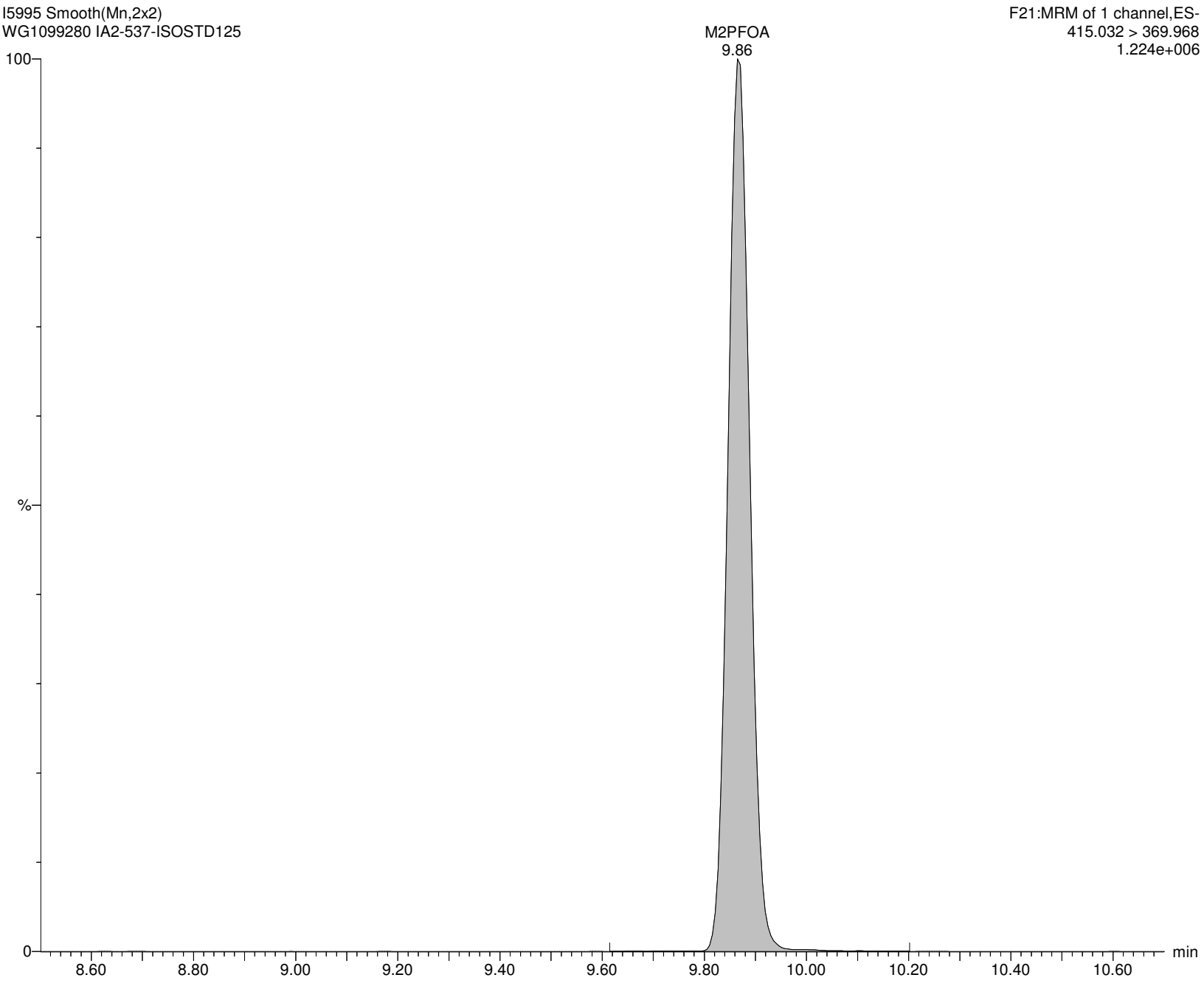

all concentration units in (ng/mL)

Alpha Analytical Inc.
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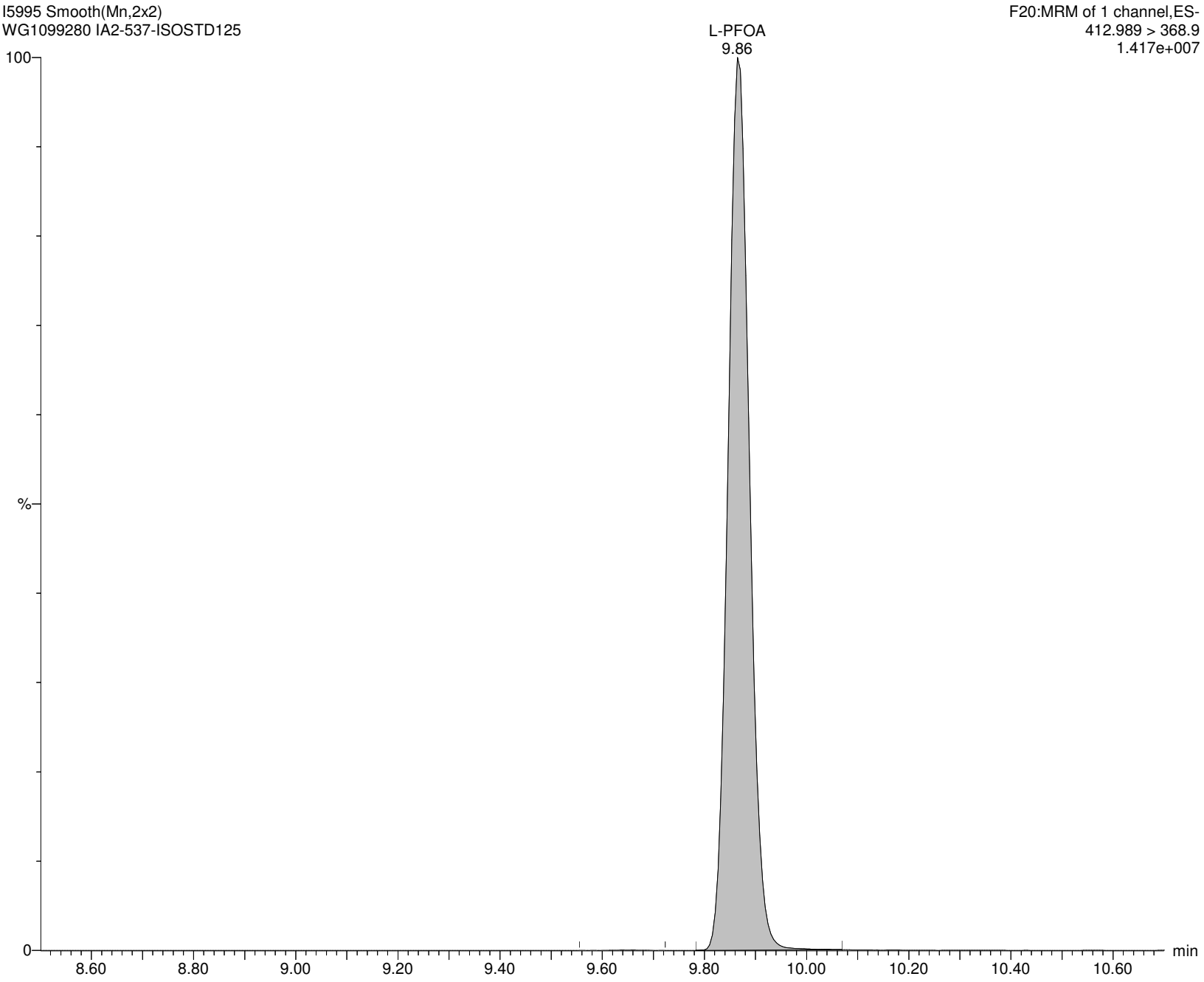

all concentration units in (ng/mL)

Alpha Analytical Inc.
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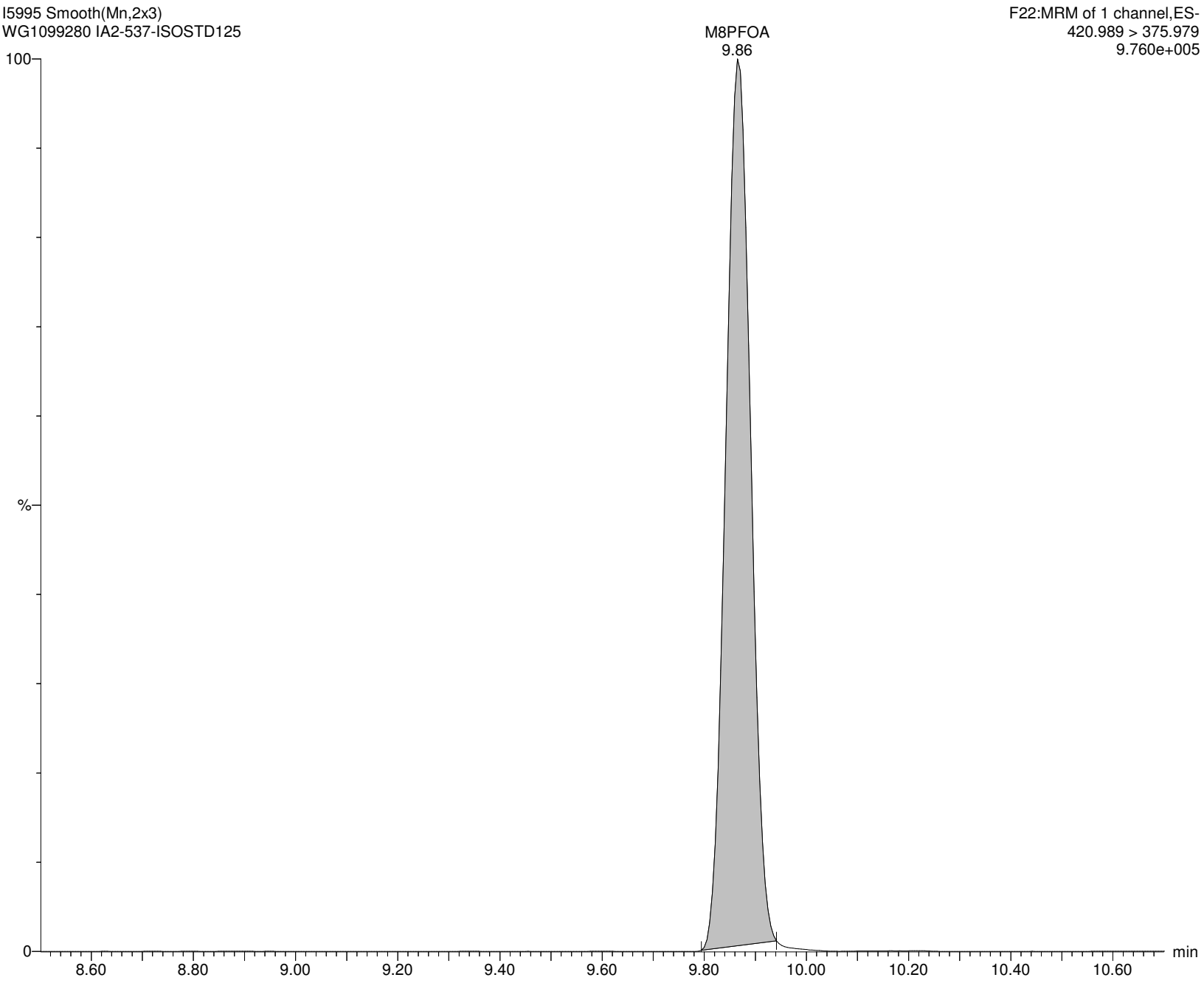

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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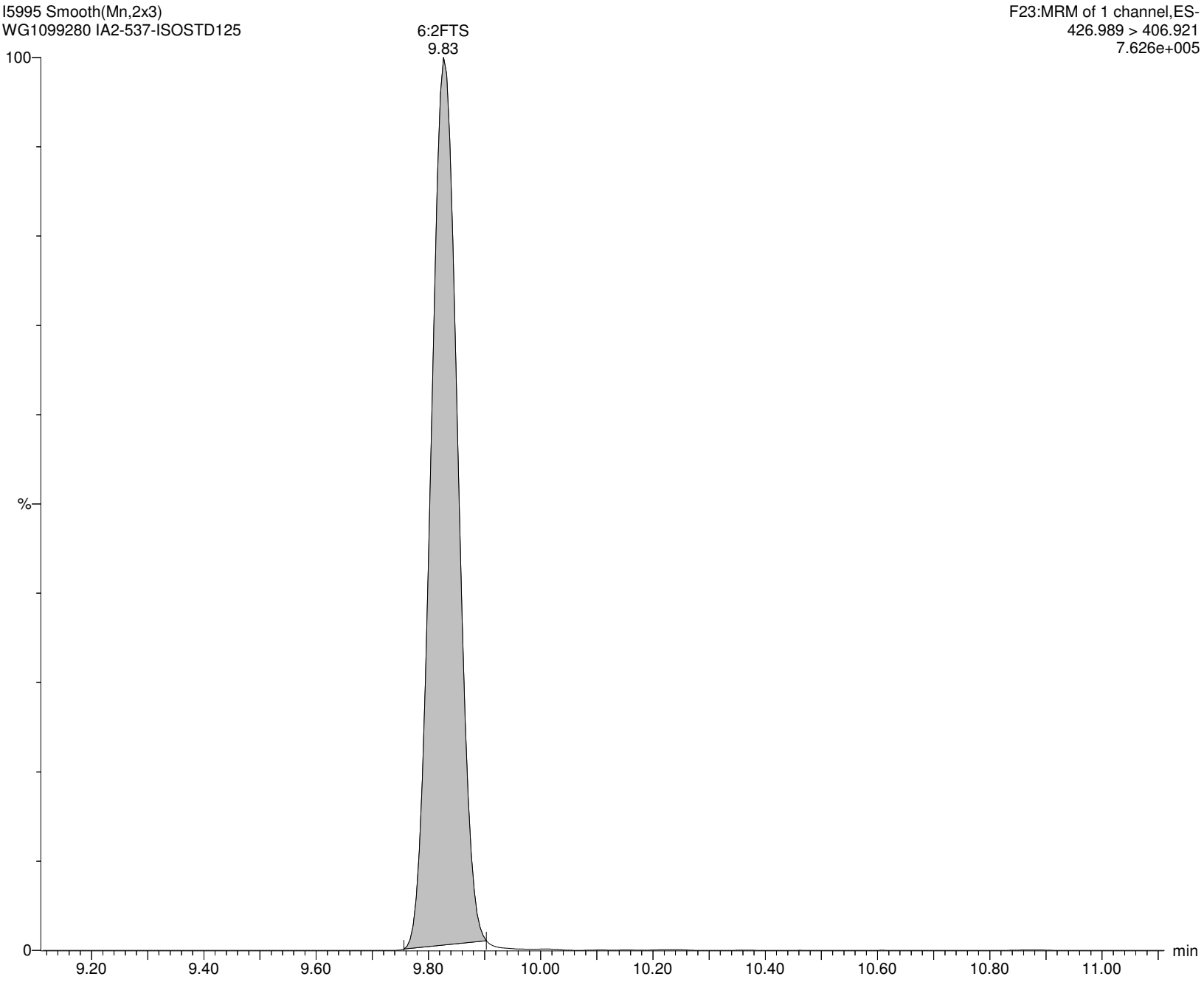
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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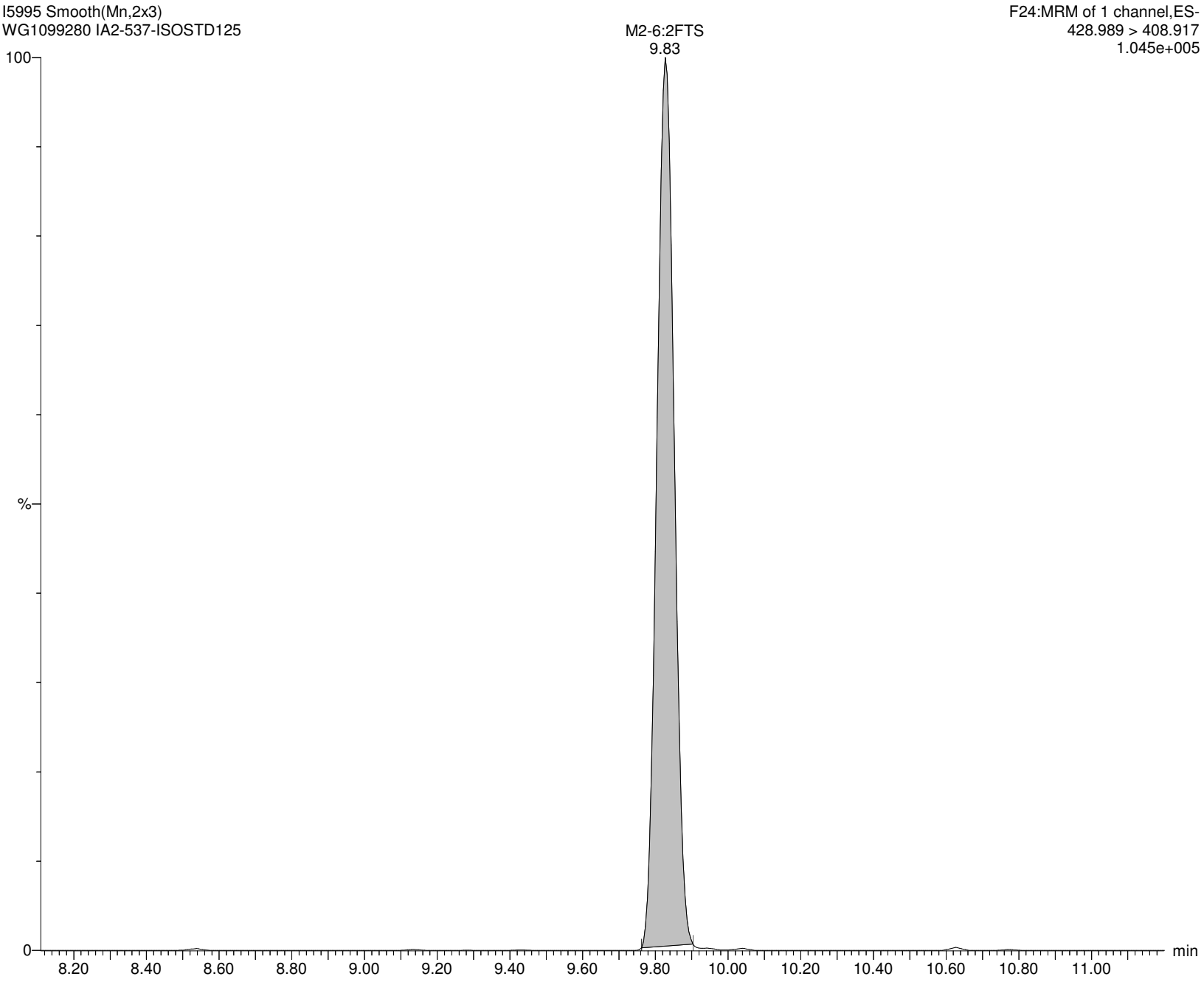

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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Description: WG1099280
User: LCMS01:PB
Vial: 2:A,8
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Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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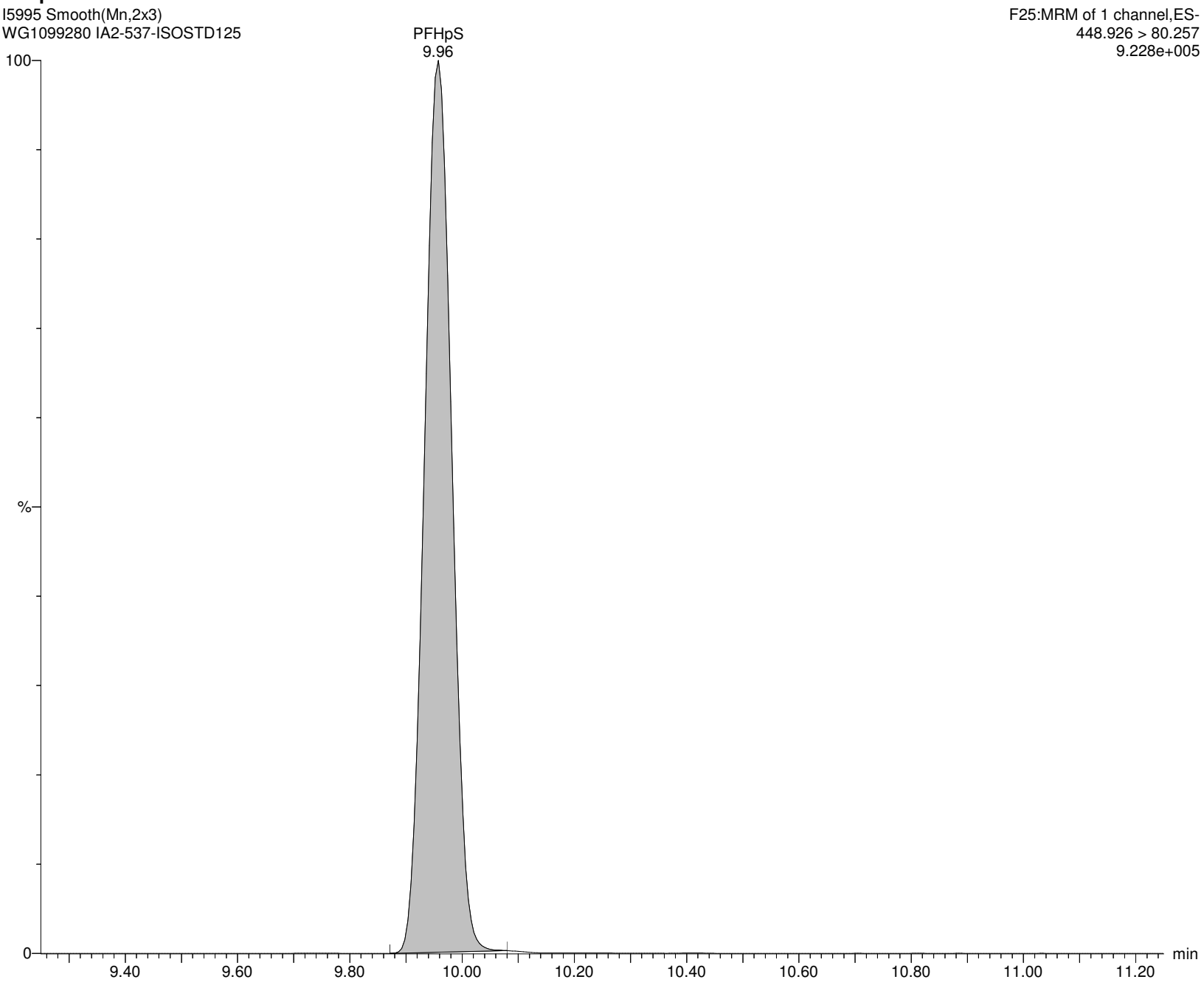

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:54 Eastern Daylight Time

Name: I5995
ID: IA2-537-ISOSTD125
Date: 21-Mar-2018
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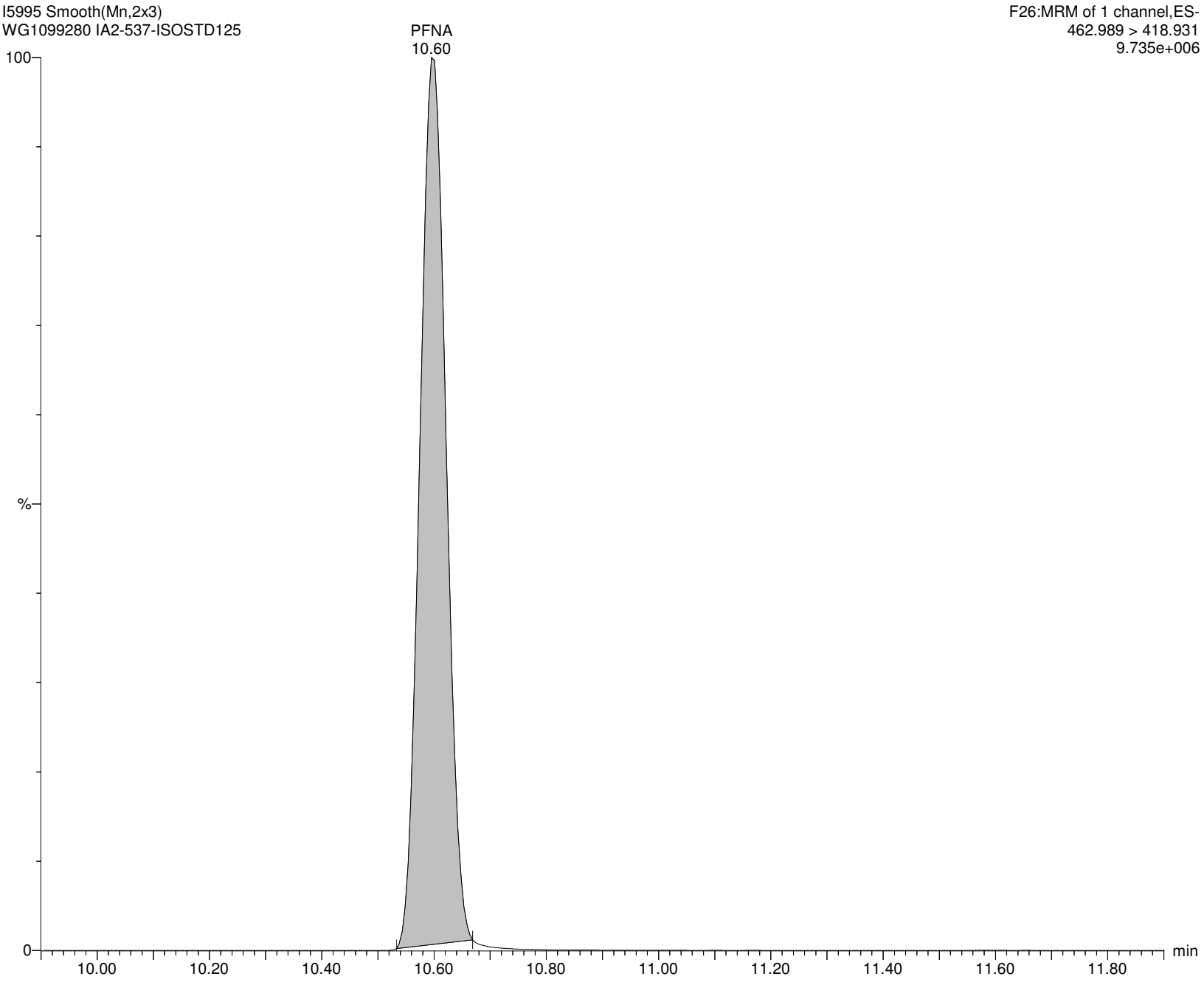

all concentration units in (ng/mL)

Alpha Analytical Inc.
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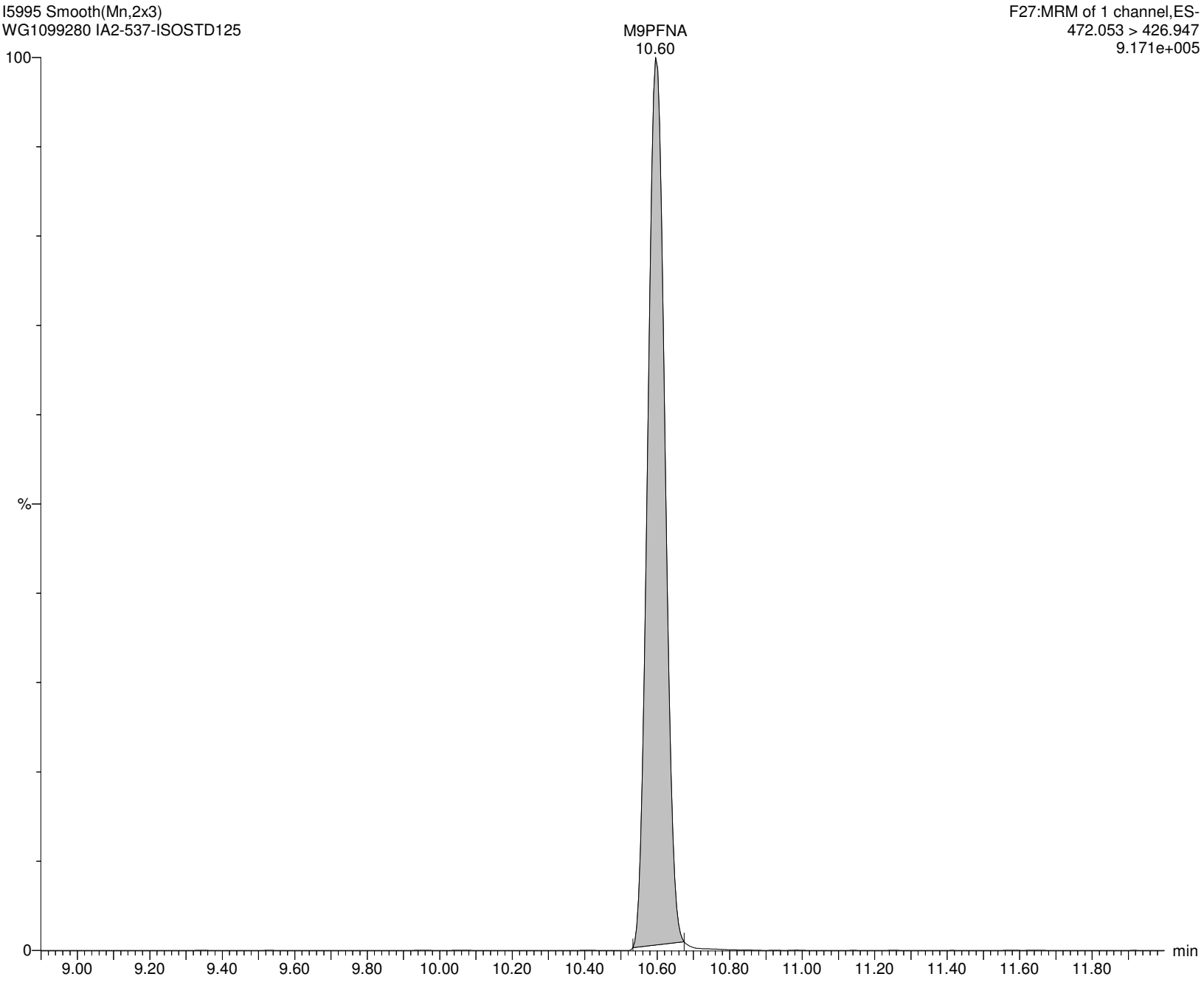

all concentration units in (ng/mL)

Alpha Analytical Inc.
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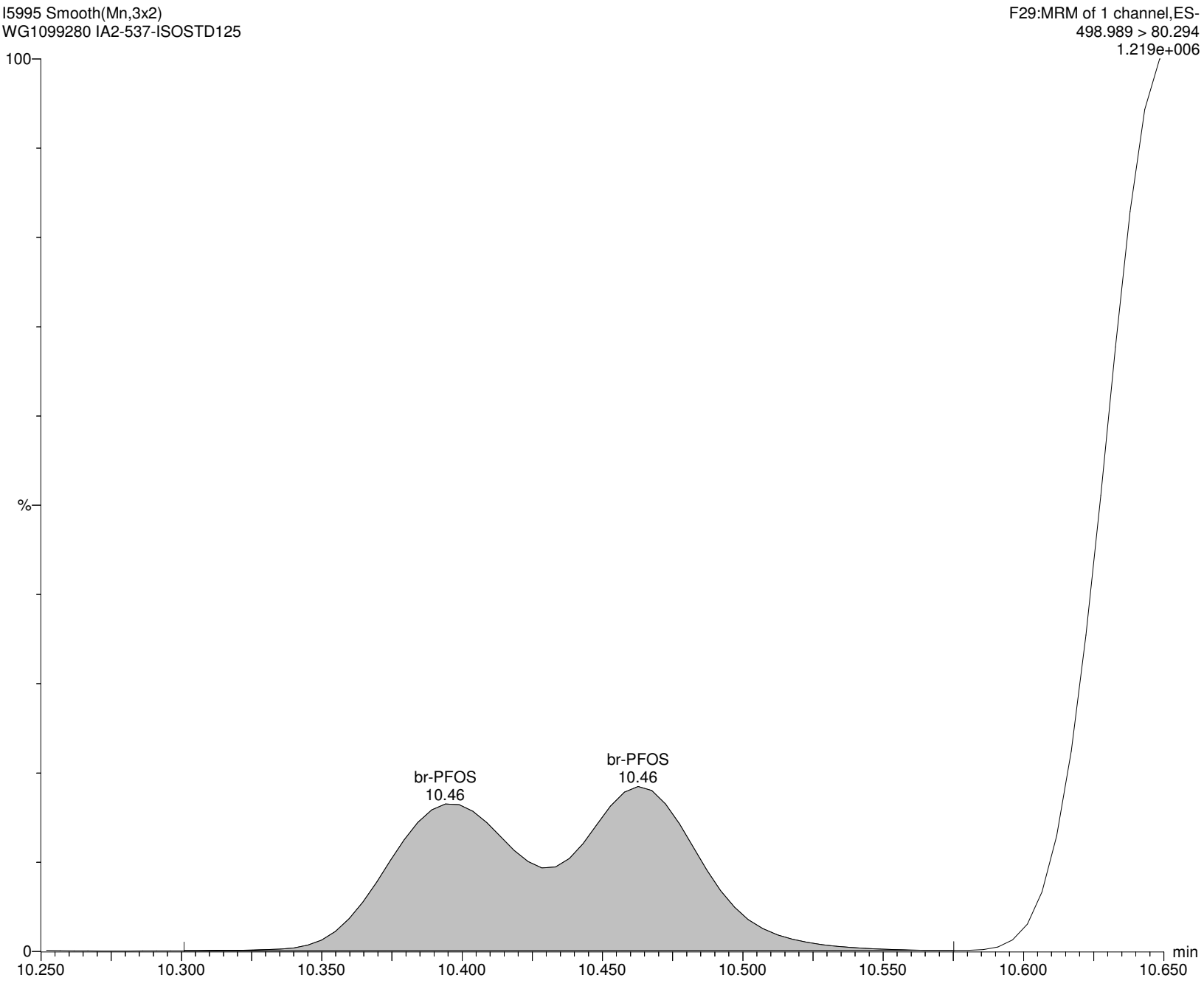

all concentration units in (ng/mL)

Alpha Analytical Inc.
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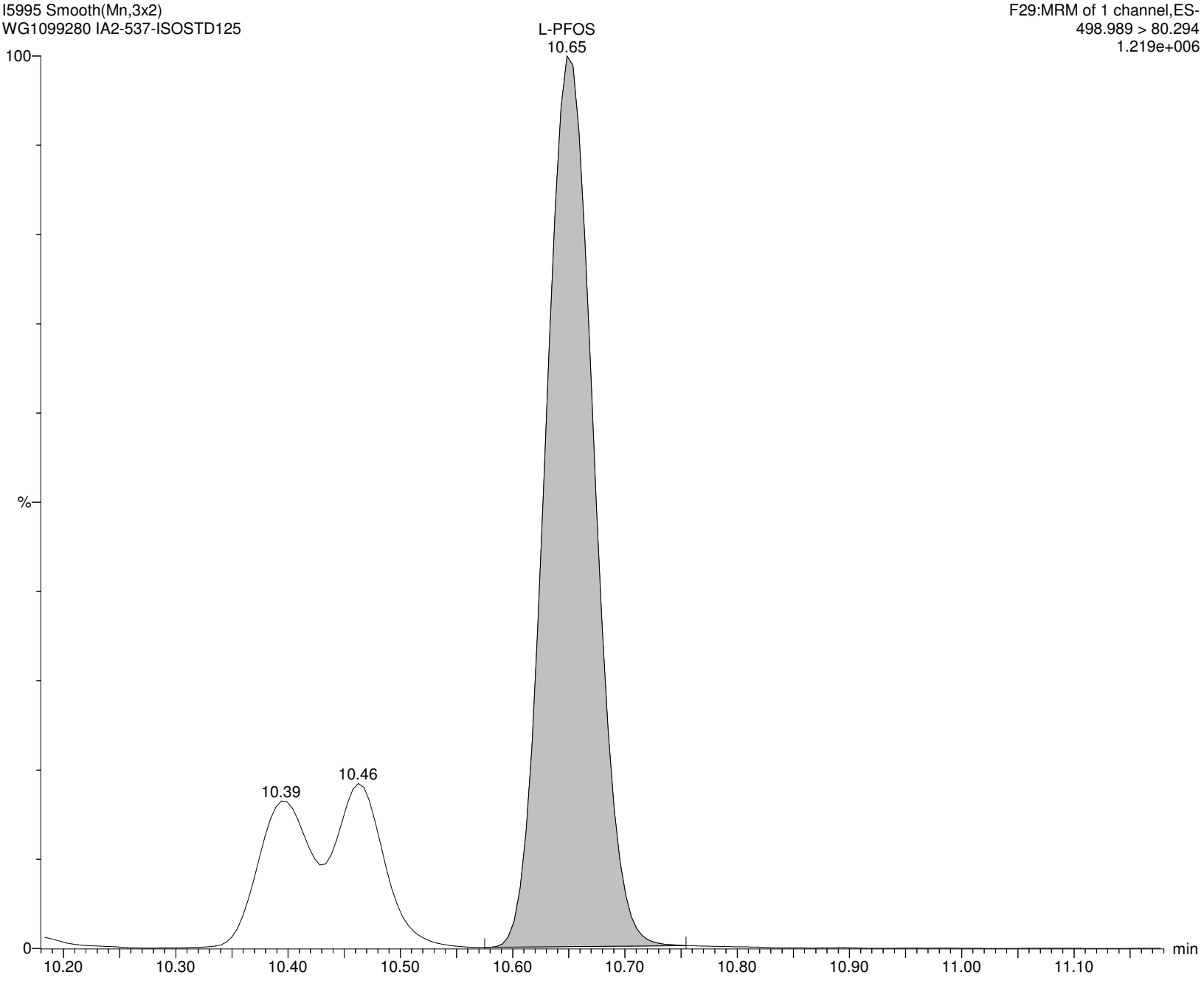

all concentration units in (ng/mL)

Alpha Analytical Inc.
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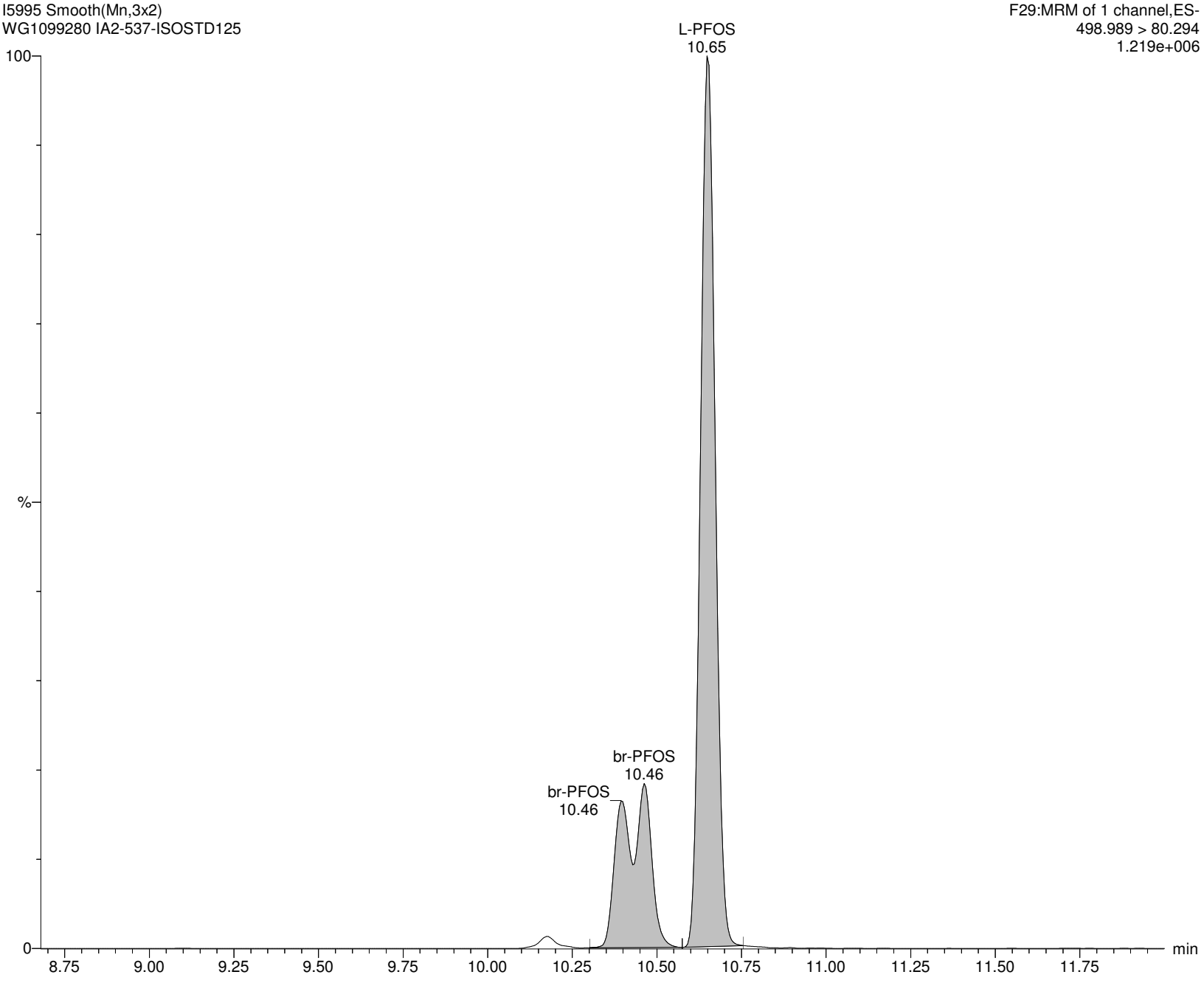

all concentration units in (ng/mL)

Alpha Analytical Inc.
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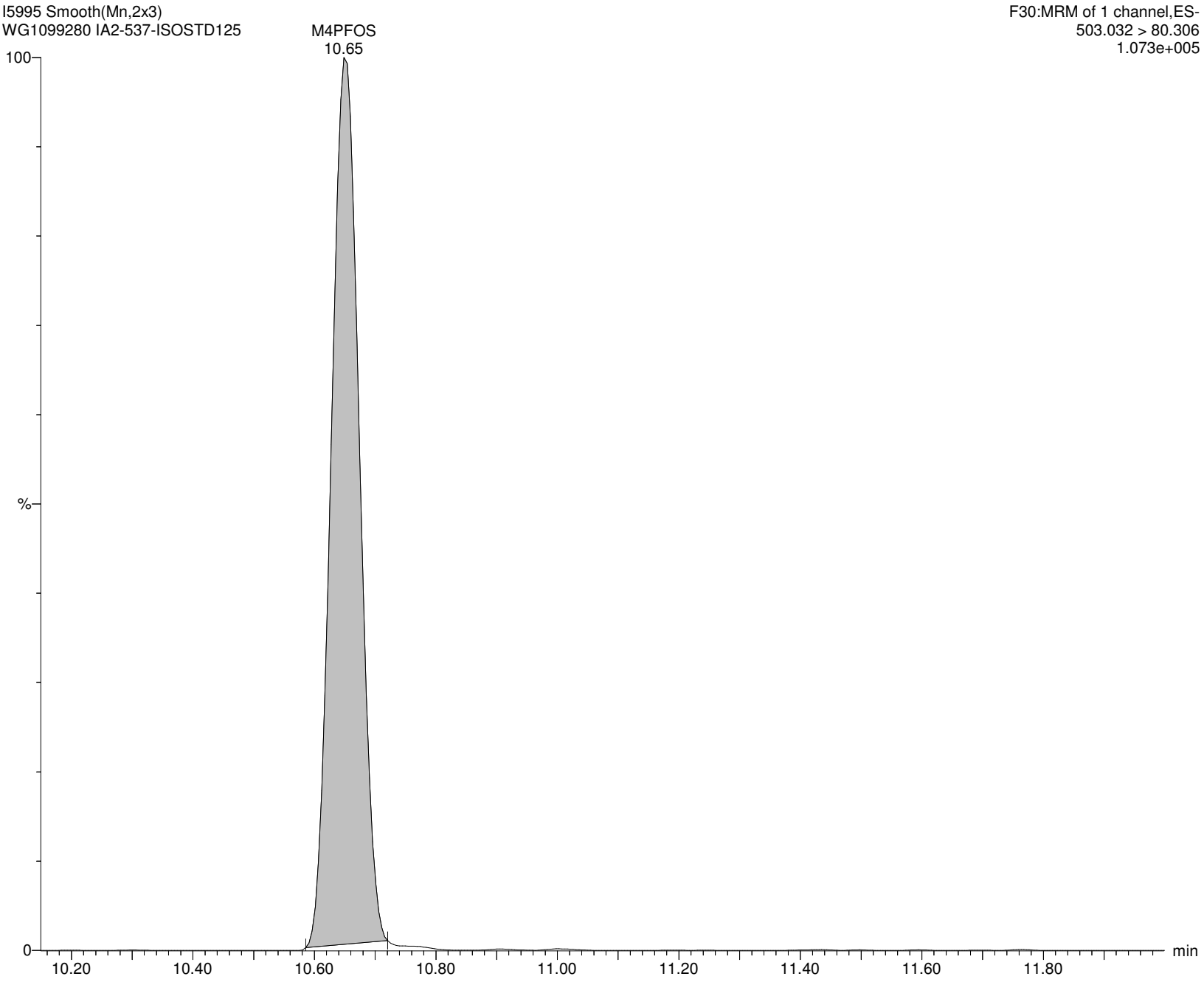

all concentration units in (ng/mL)

Alpha Analytical Inc.
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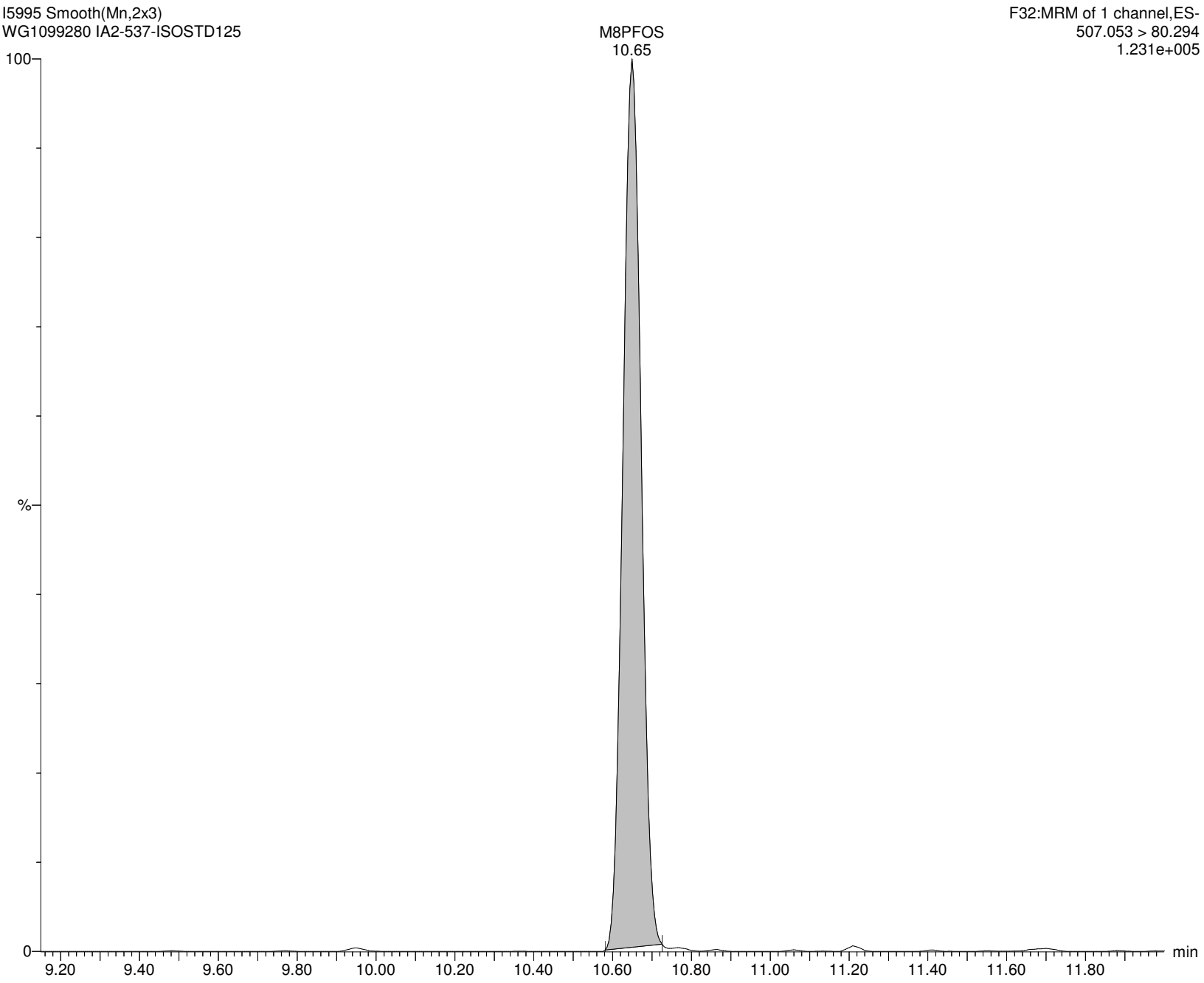

all concentration units in (ng/mL)

Alpha Analytical Inc.
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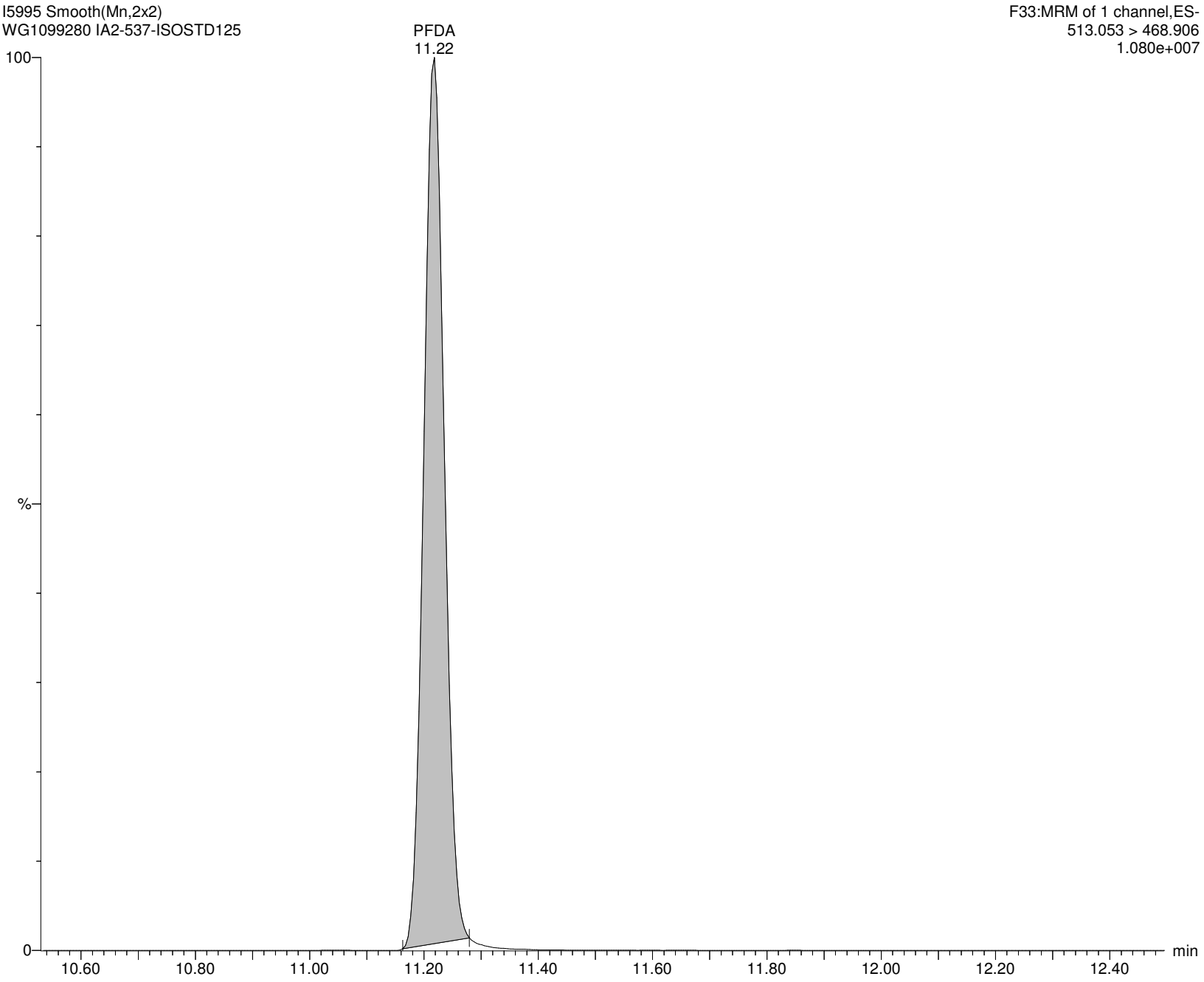

all concentration units in (ng/mL)

Alpha Analytical Inc.
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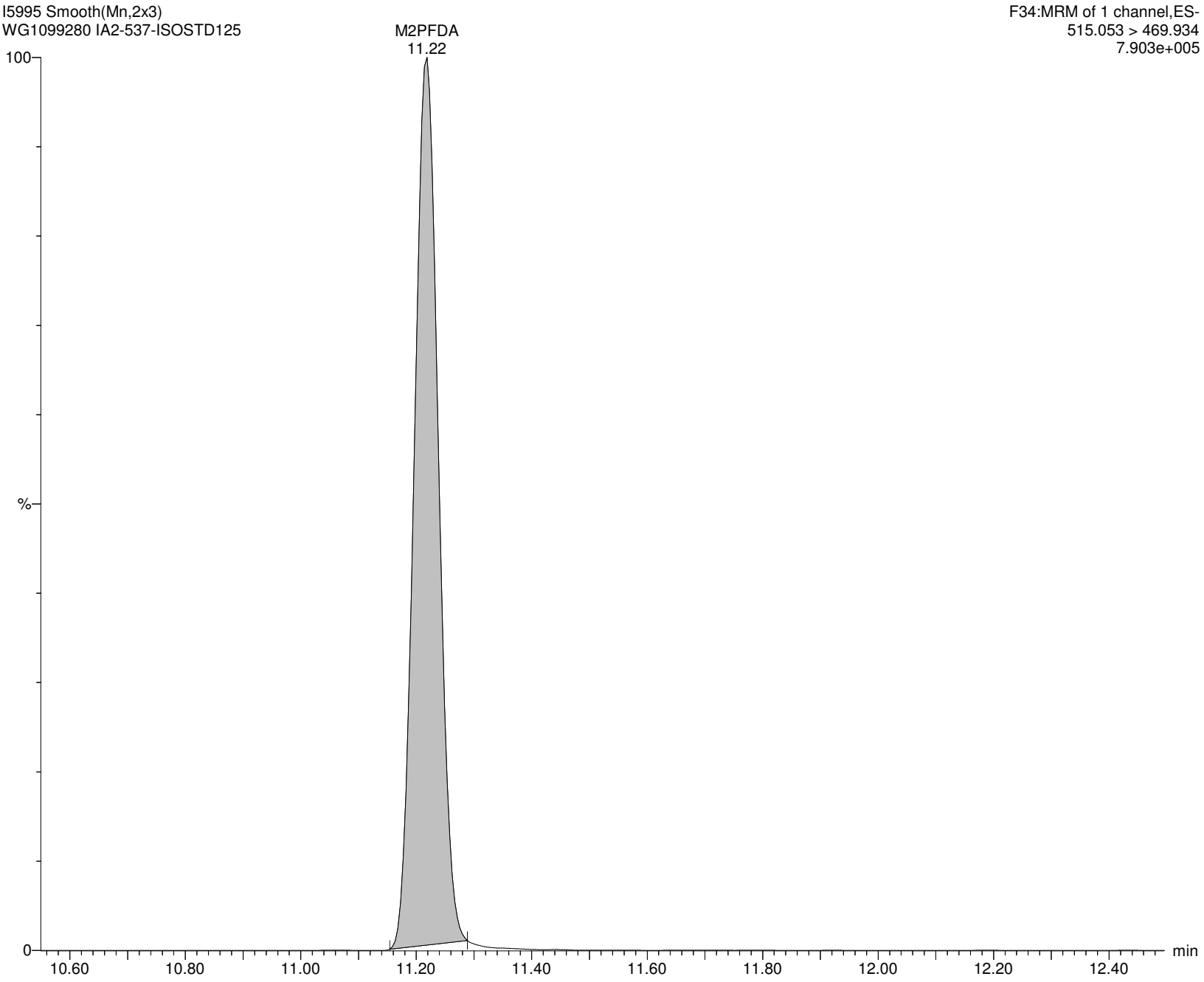

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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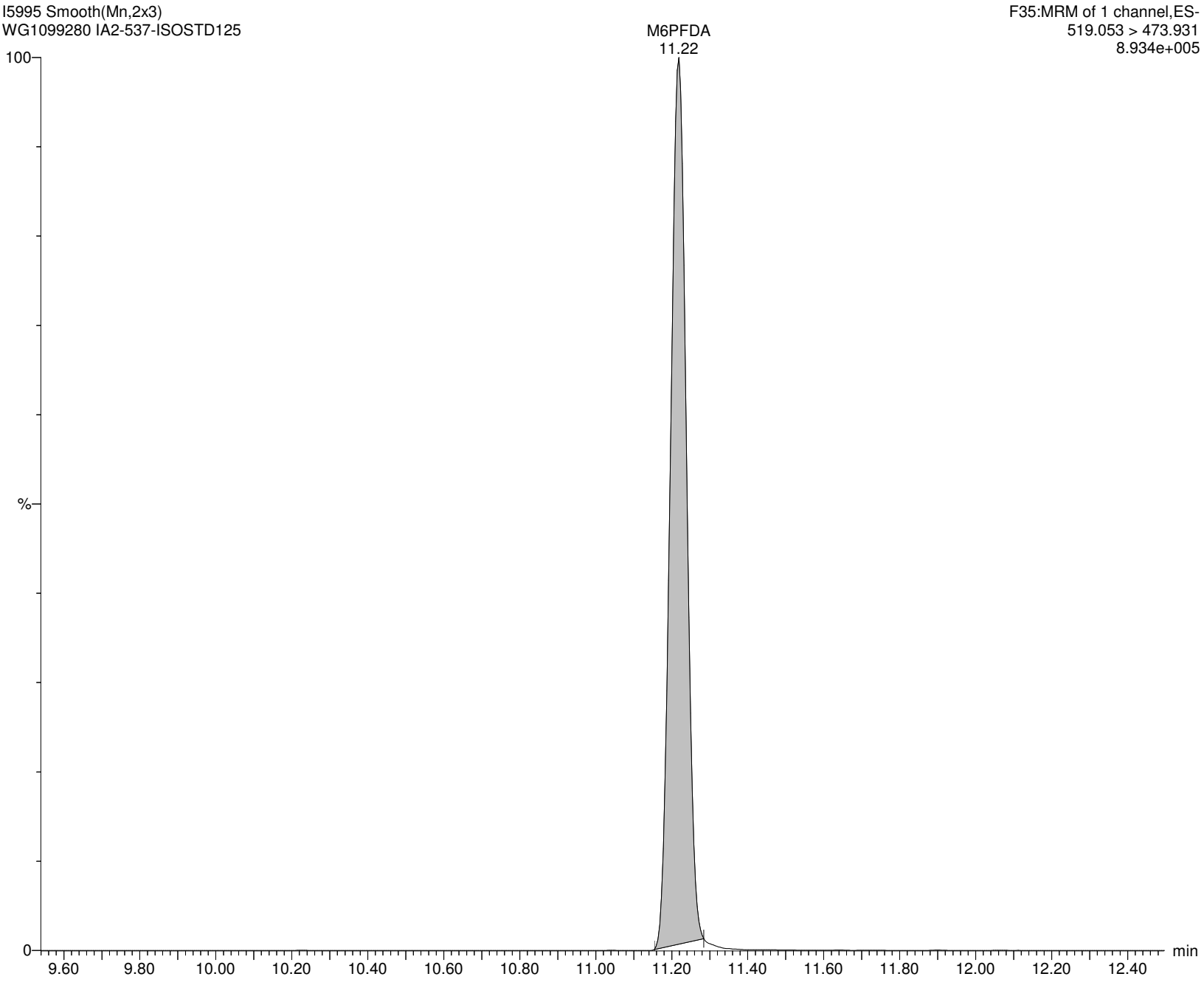

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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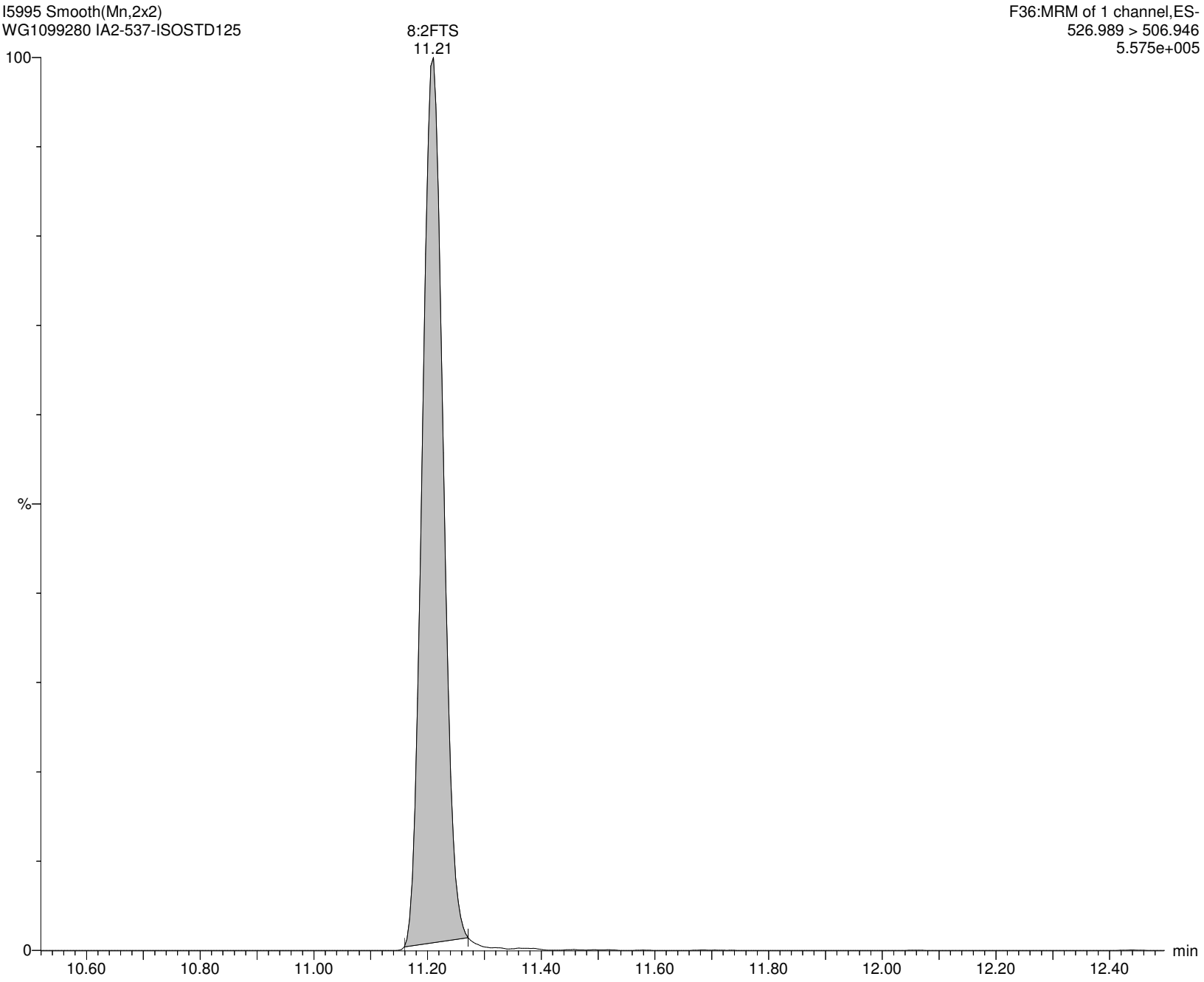

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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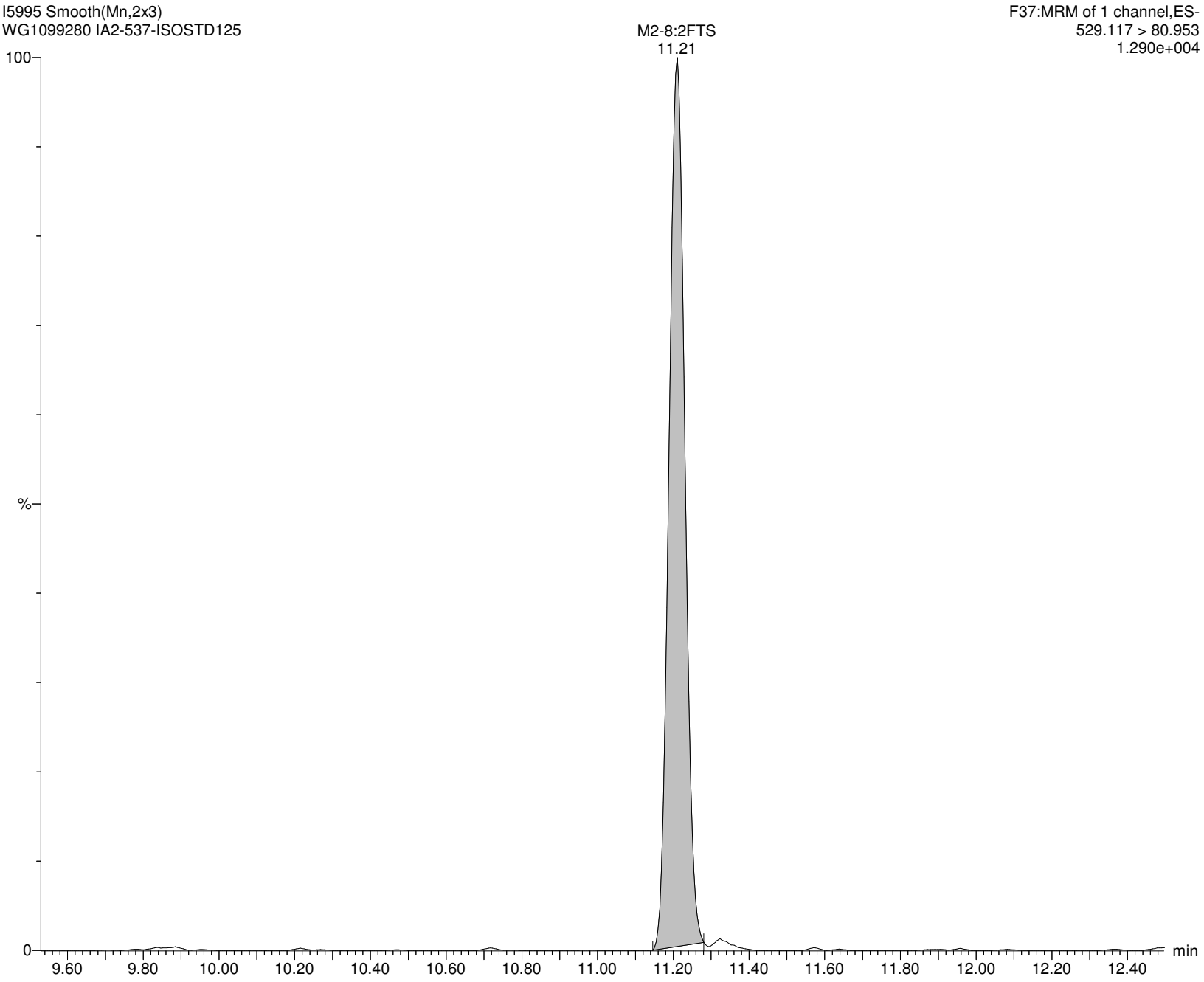

all concentration units in (ng/mL)

Alpha Analytical Inc.
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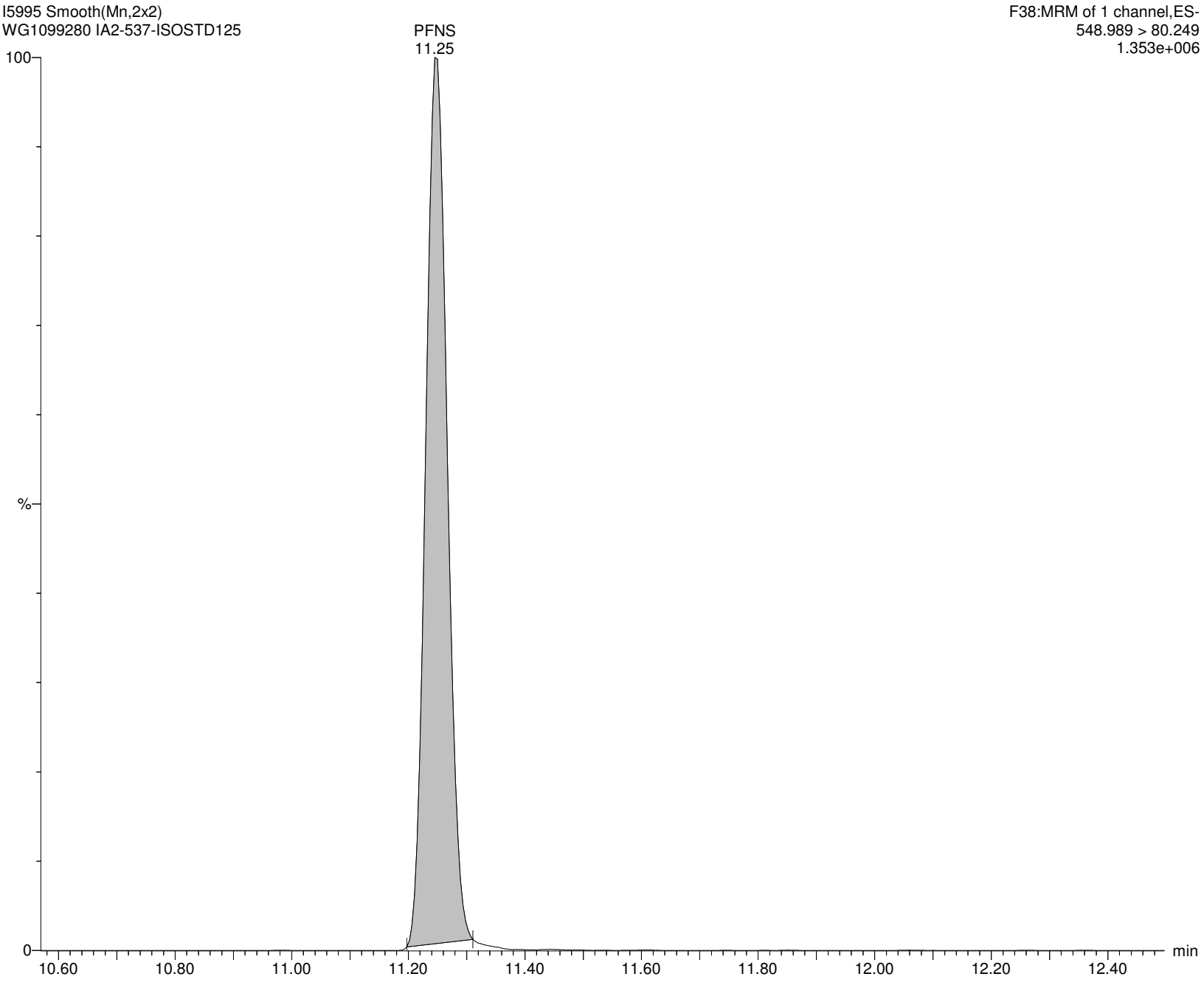

all concentration units in (ng/mL)

Alpha Analytical Inc.
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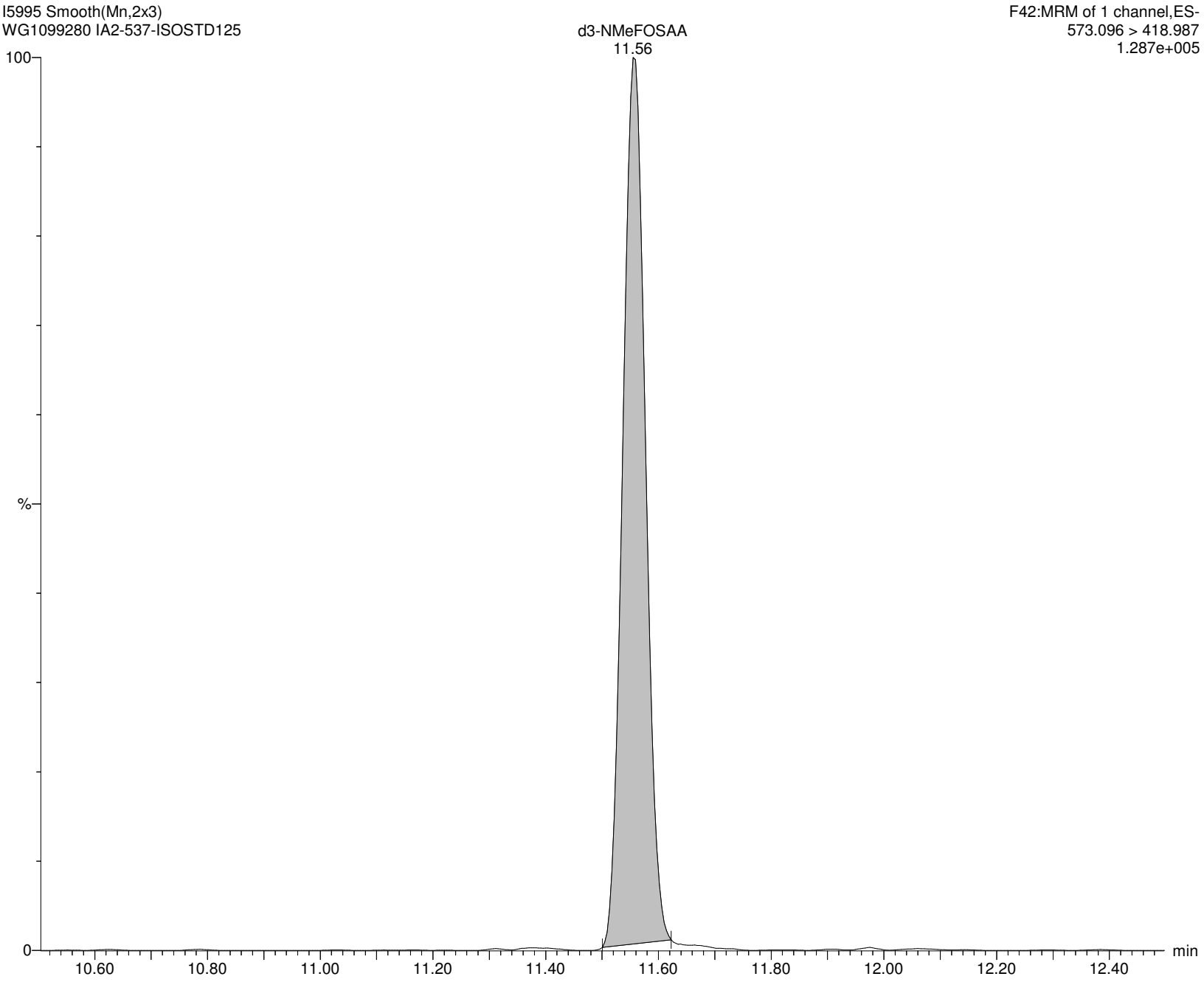

all concentration units in (ng/mL)

Alpha Analytical Inc.
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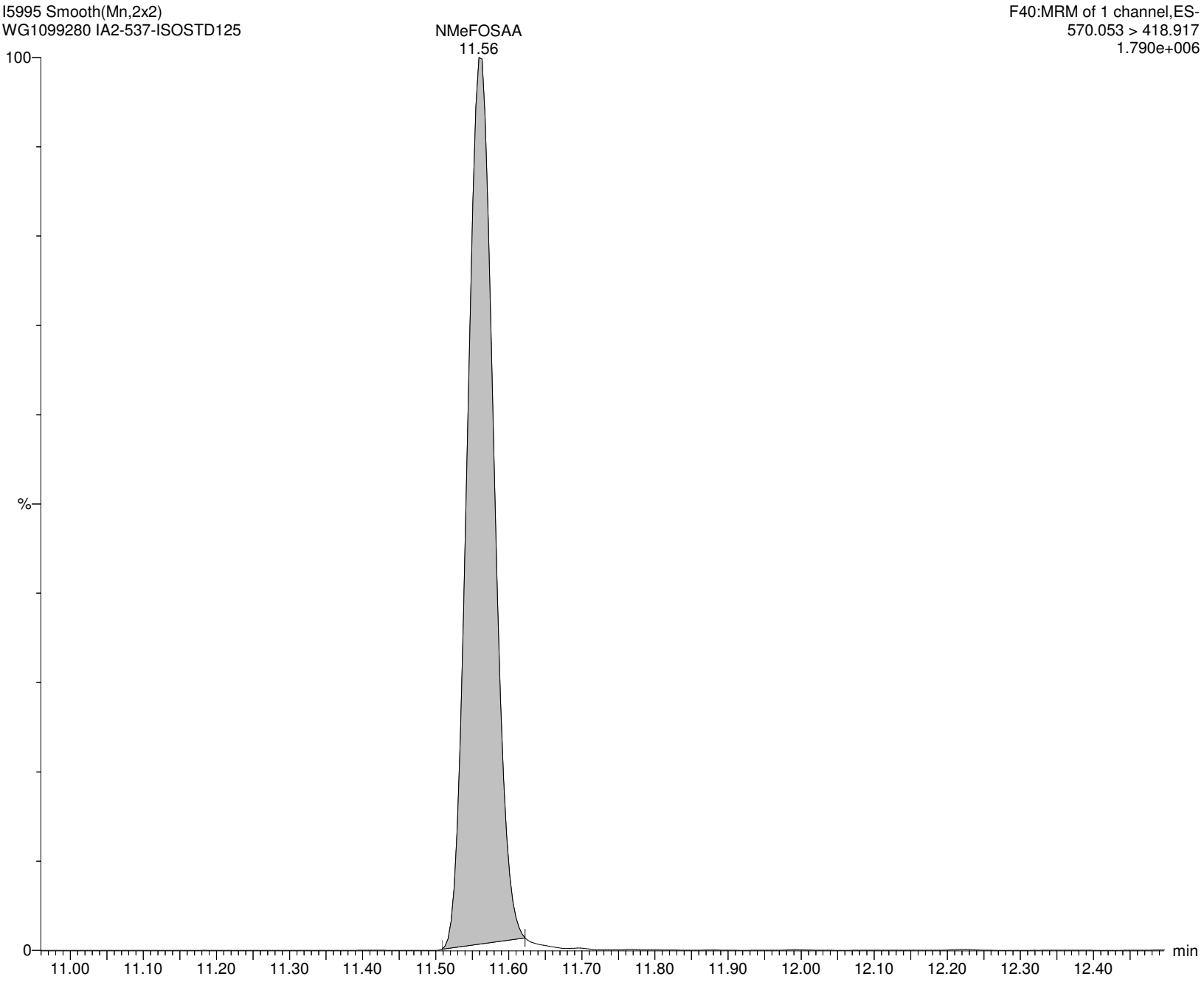

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
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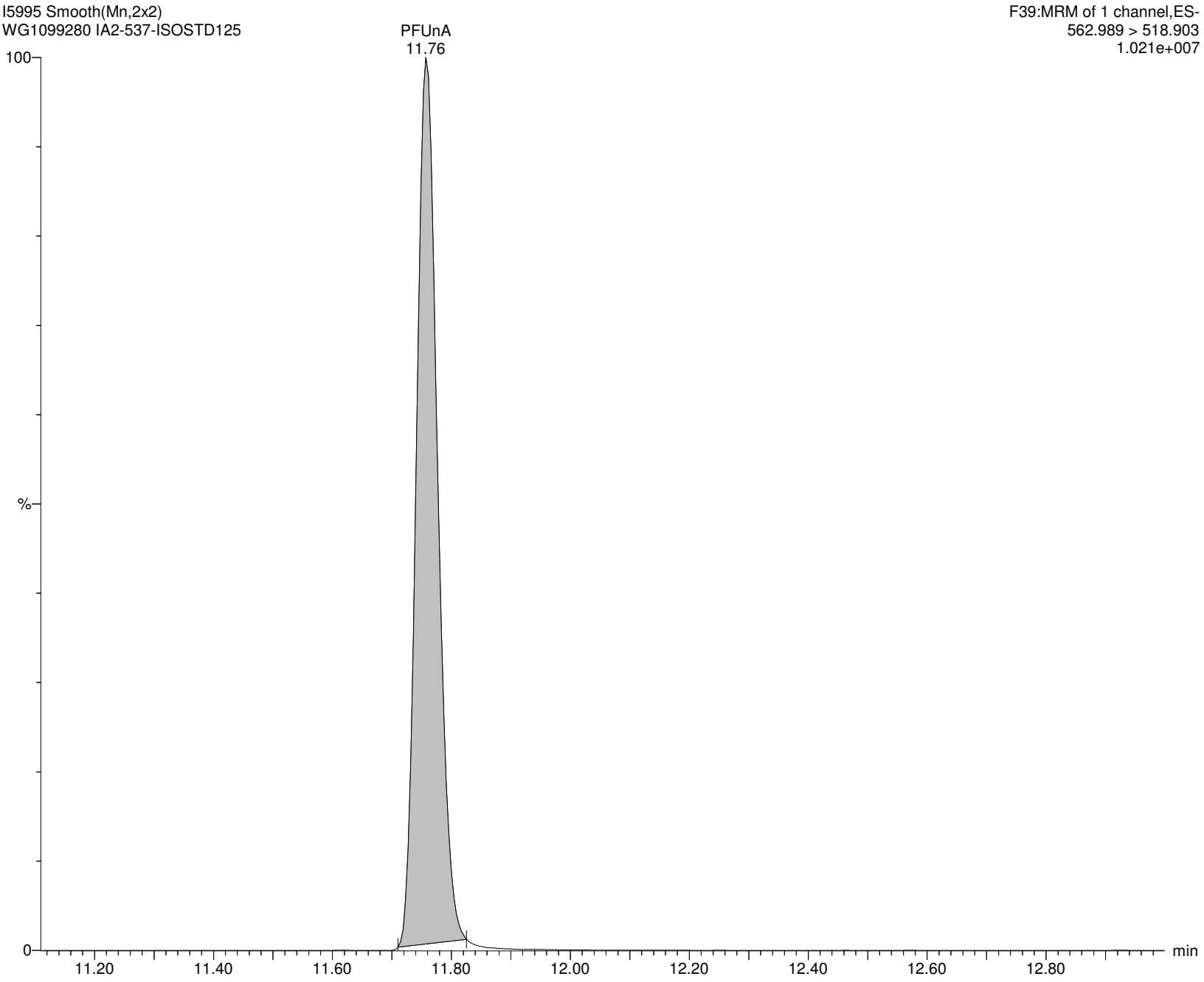

all concentration units in (ng/mL)

Alpha Analytical Inc.
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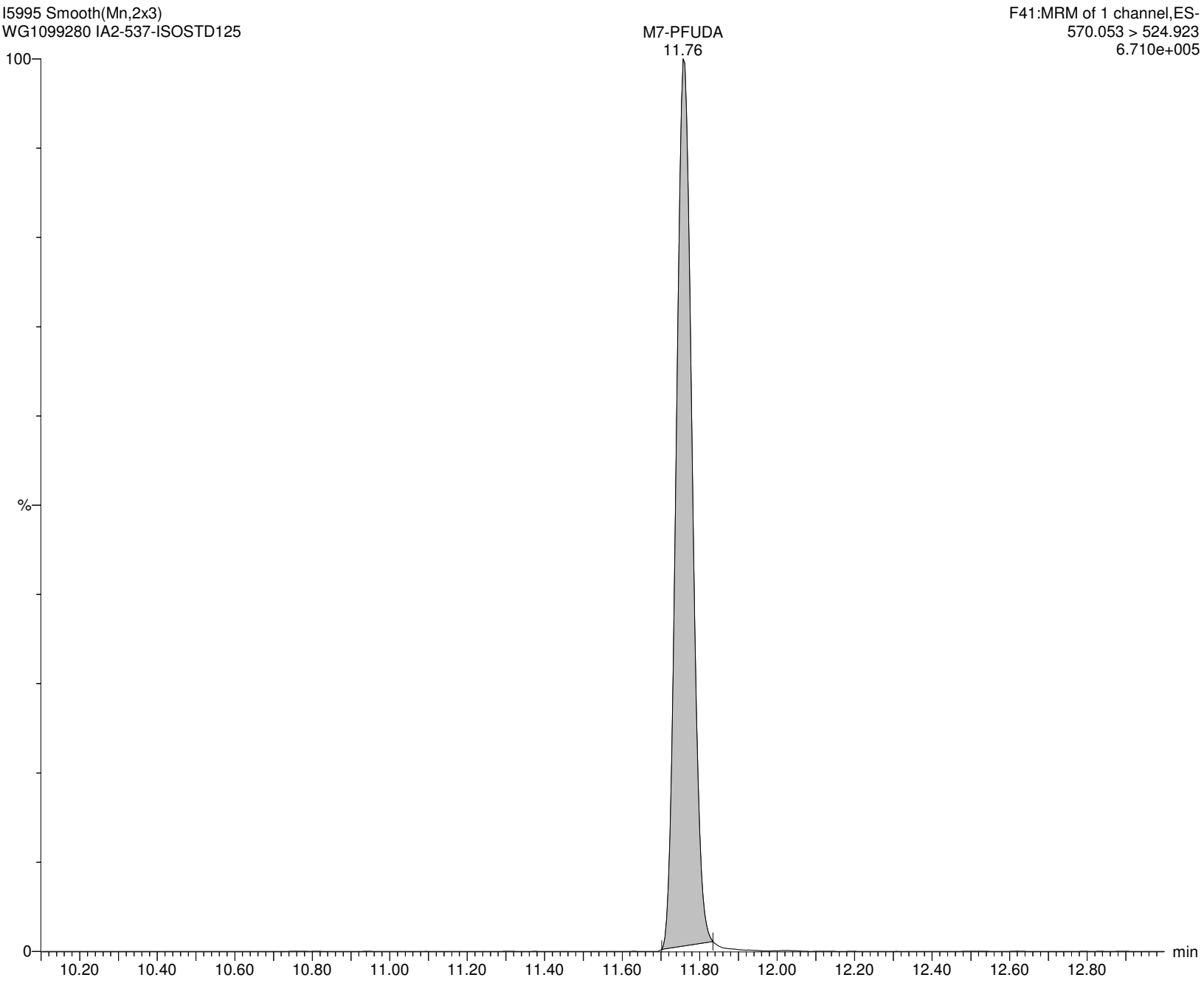

all concentration units in (ng/mL)

Alpha Analytical Inc.
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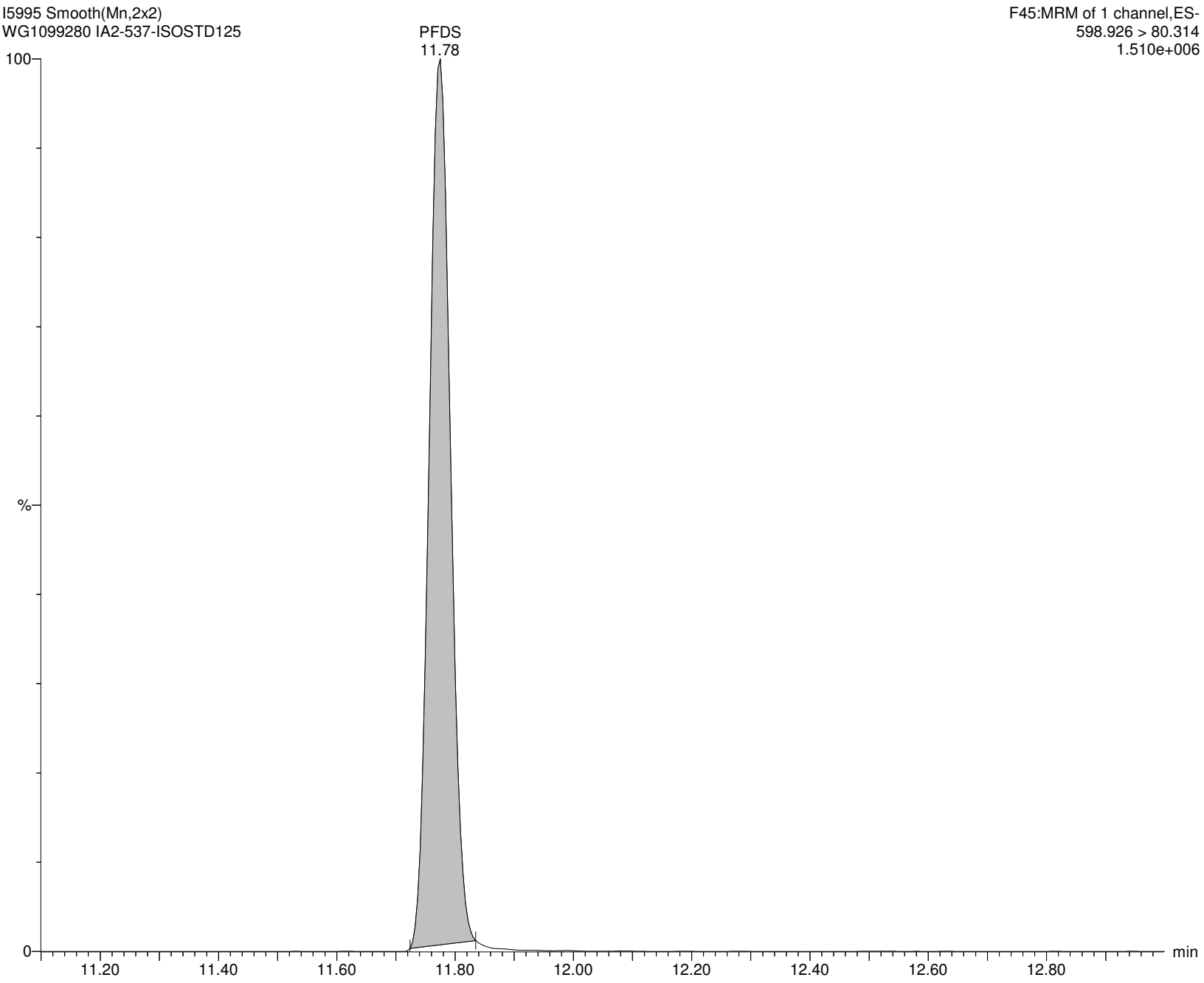

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:54 Eastern Daylight Time

Name: I5995
ID: IA2-537-ISOSTD125
Date: 21-Mar-2018
Time: 17:48:08
Description: WG1099280
User: LCMS01:PB
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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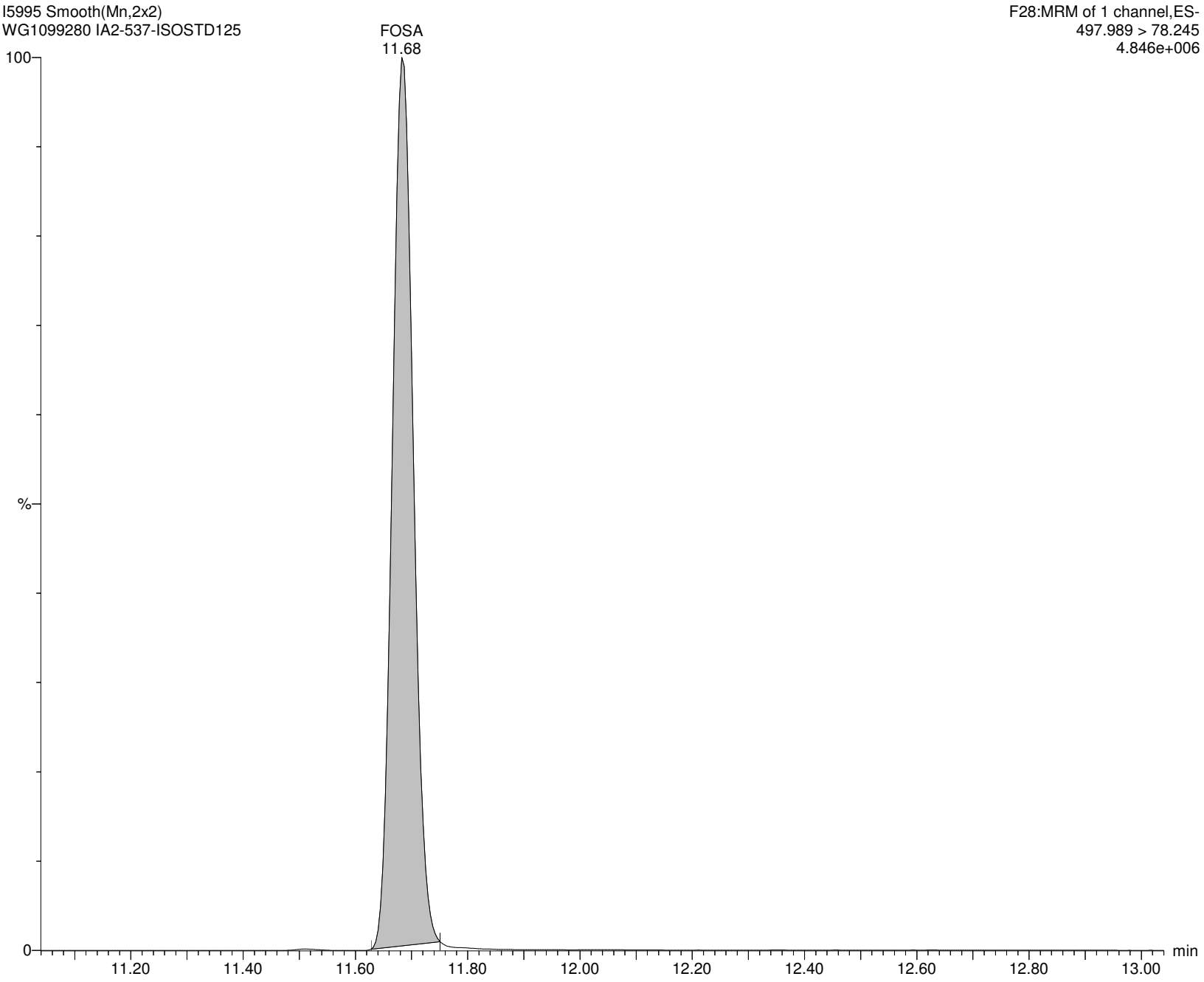

all concentration units in (ng/mL)

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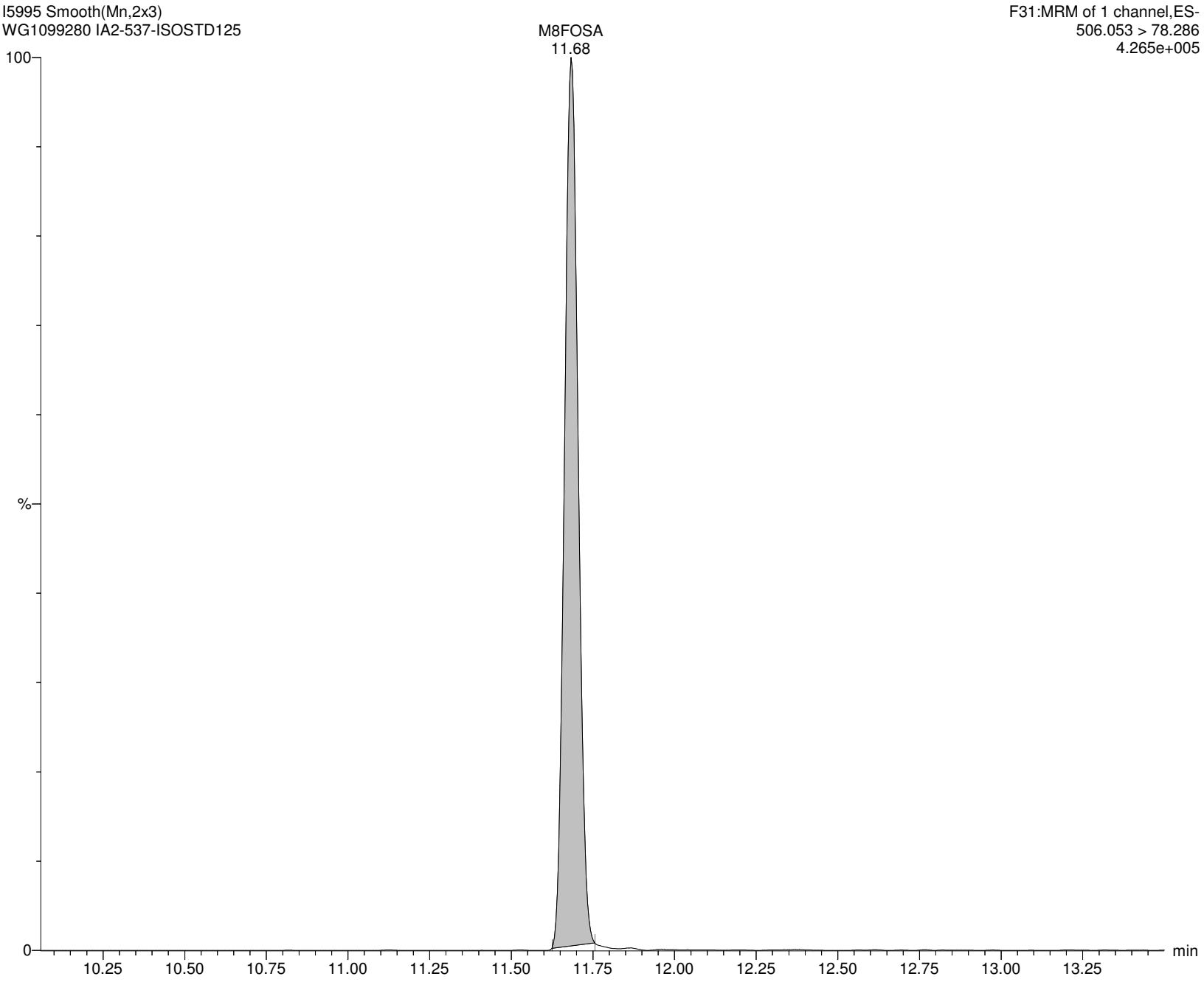

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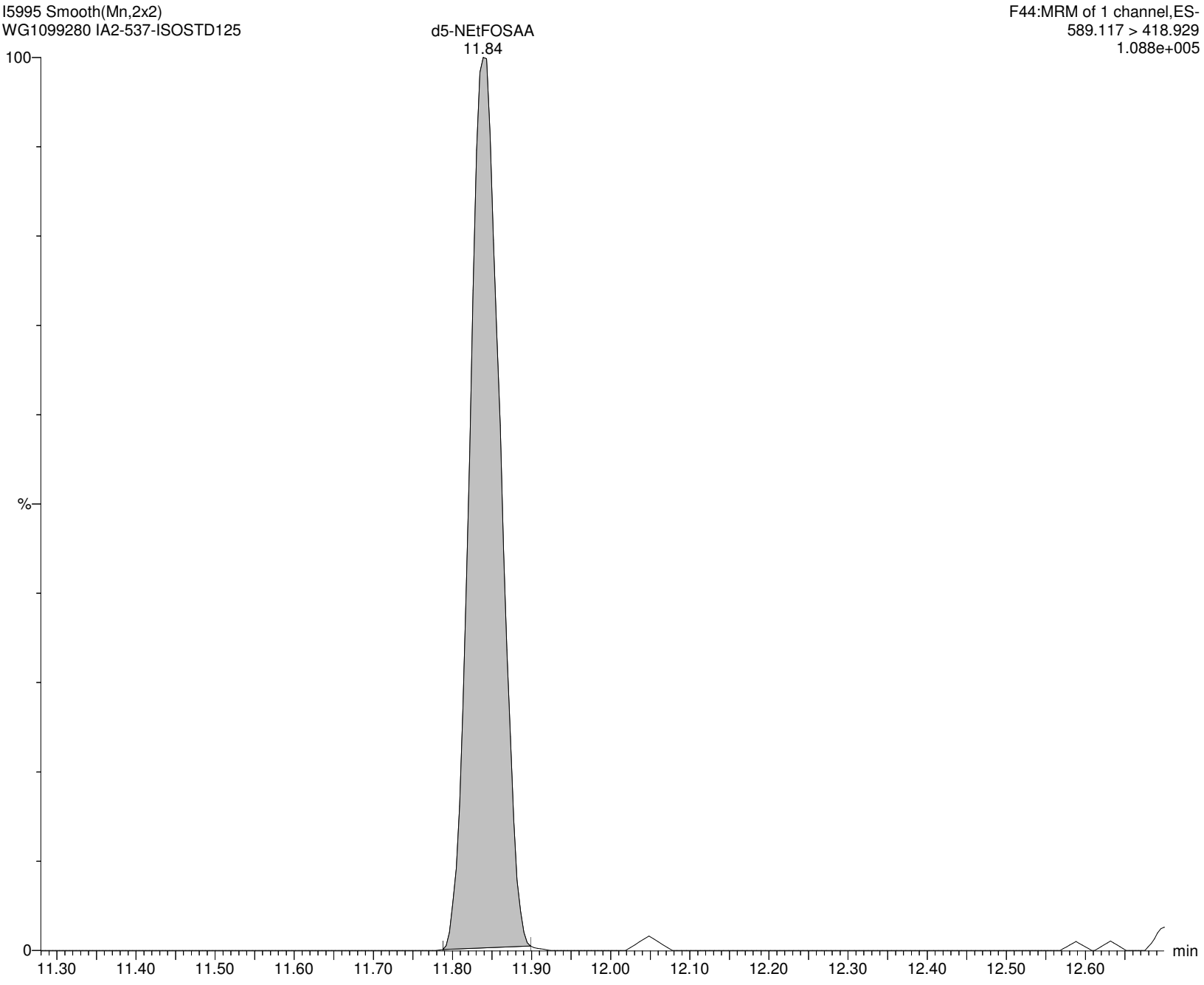

all concentration units in (ng/mL)

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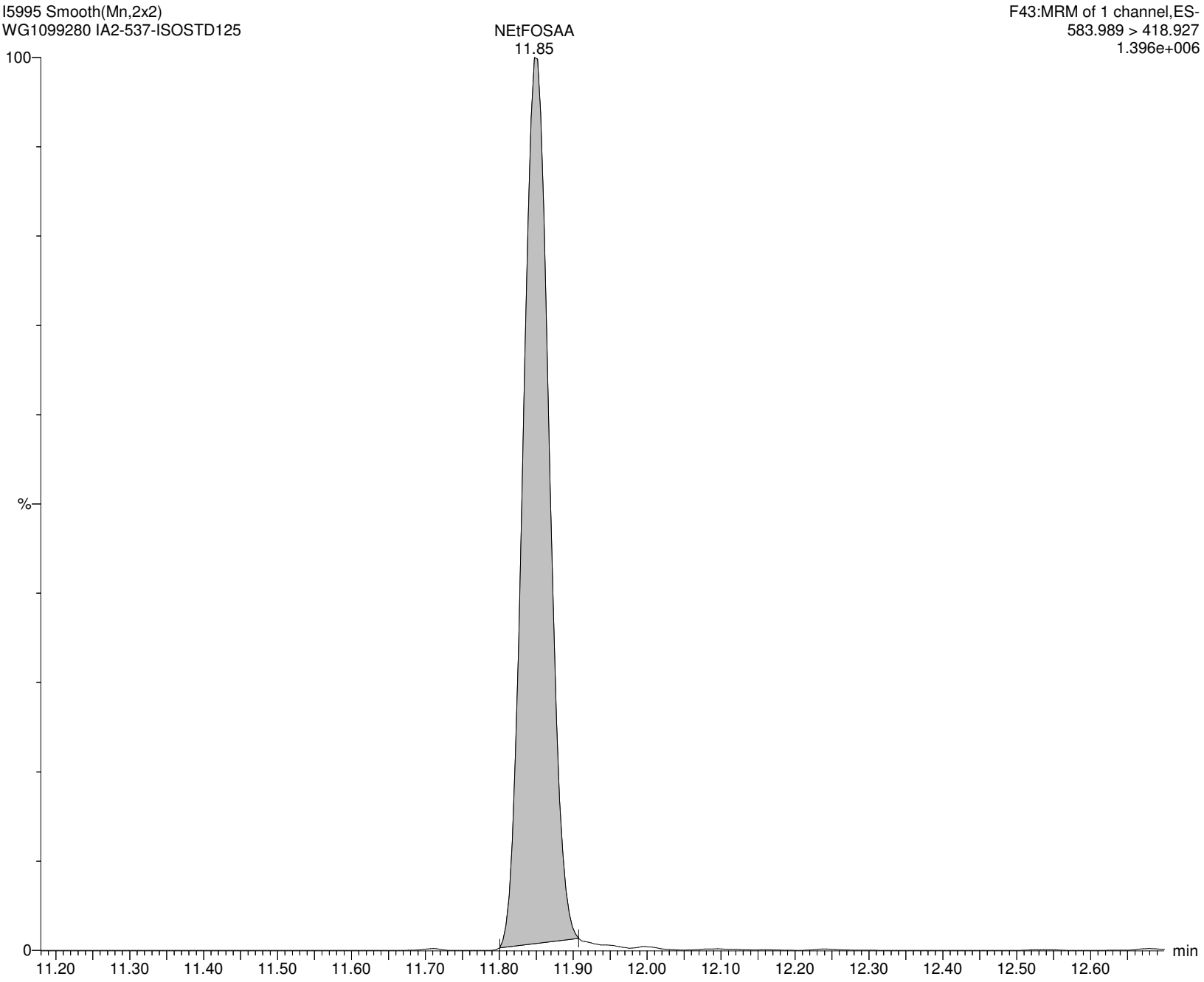

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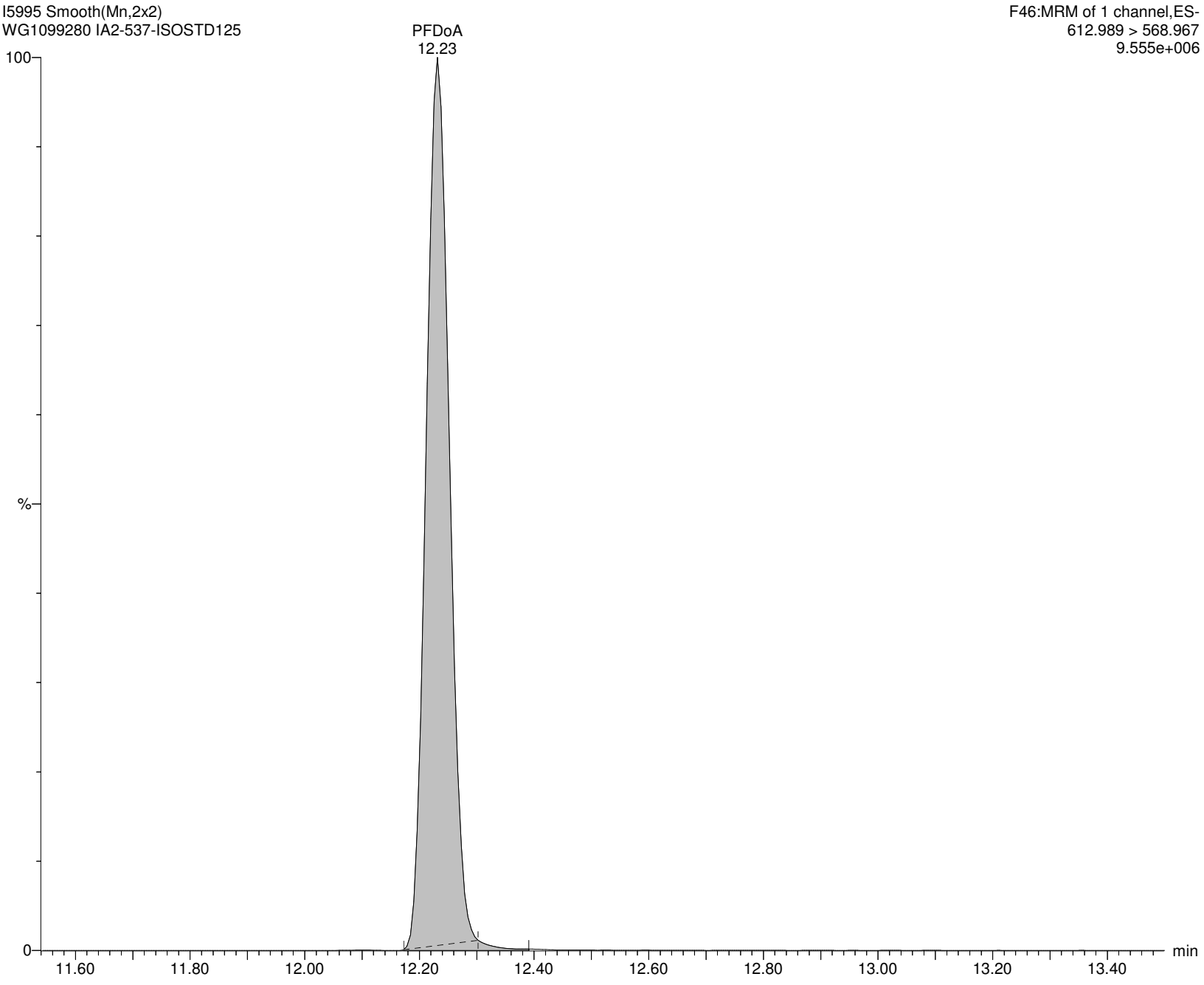

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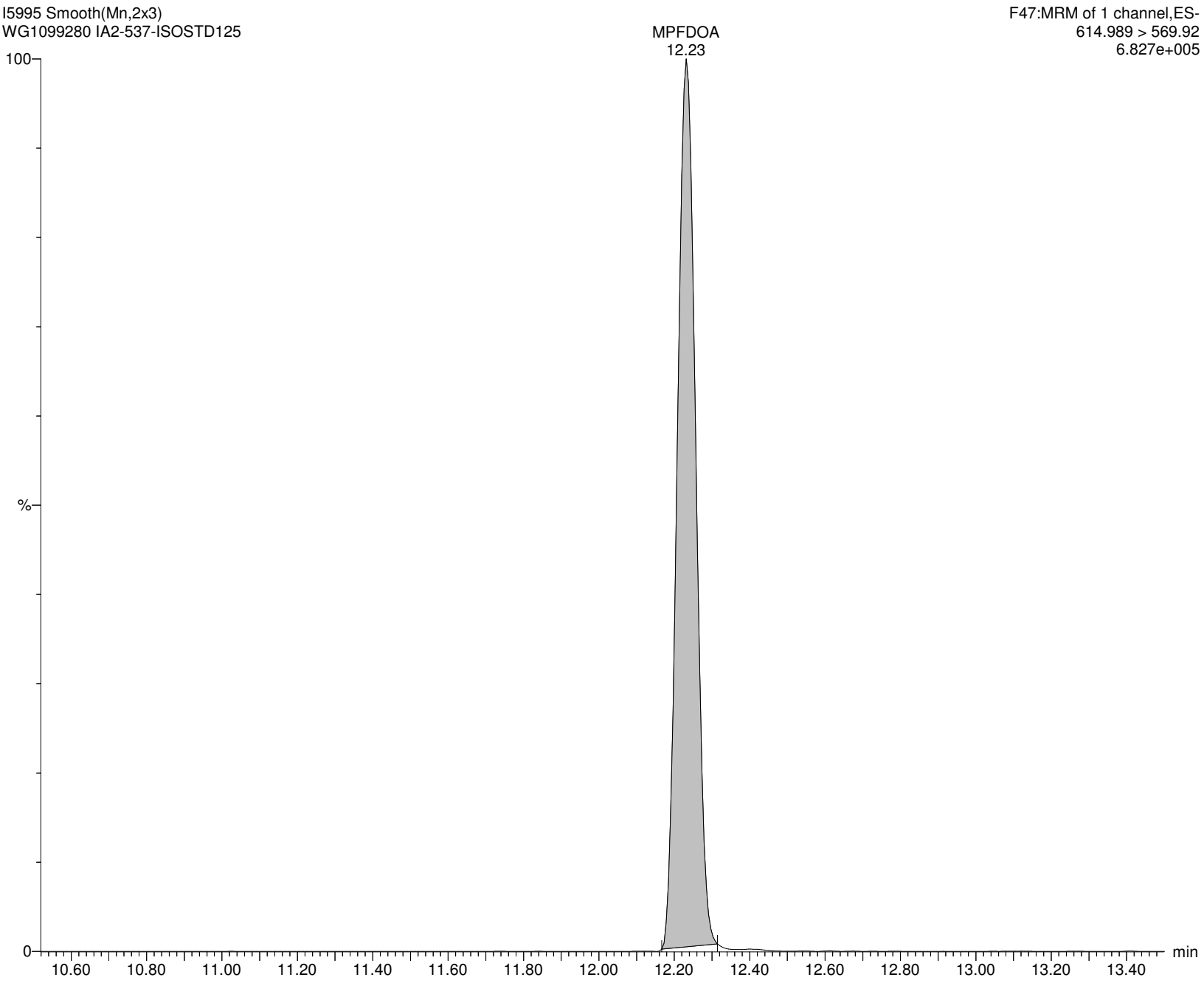

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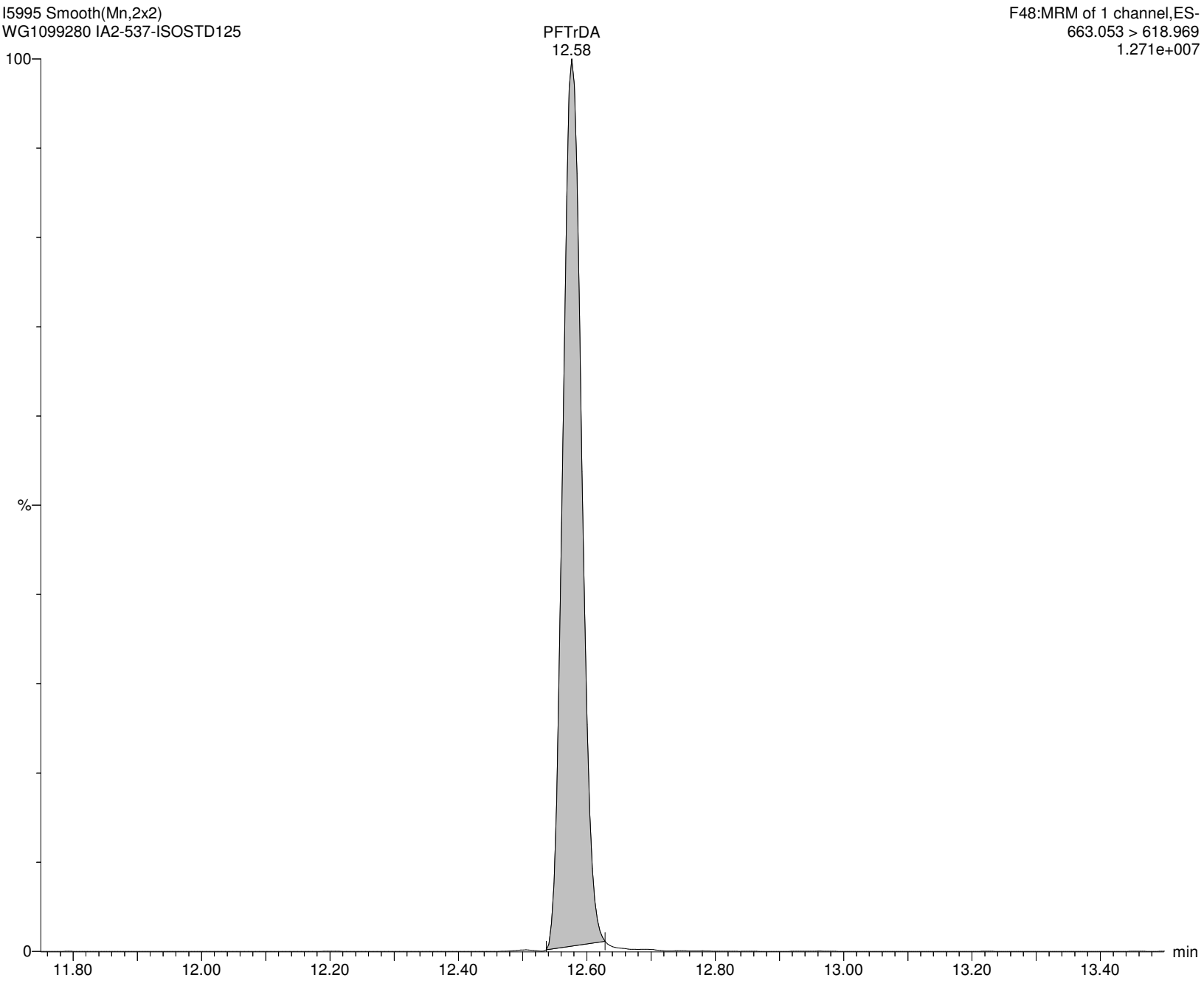

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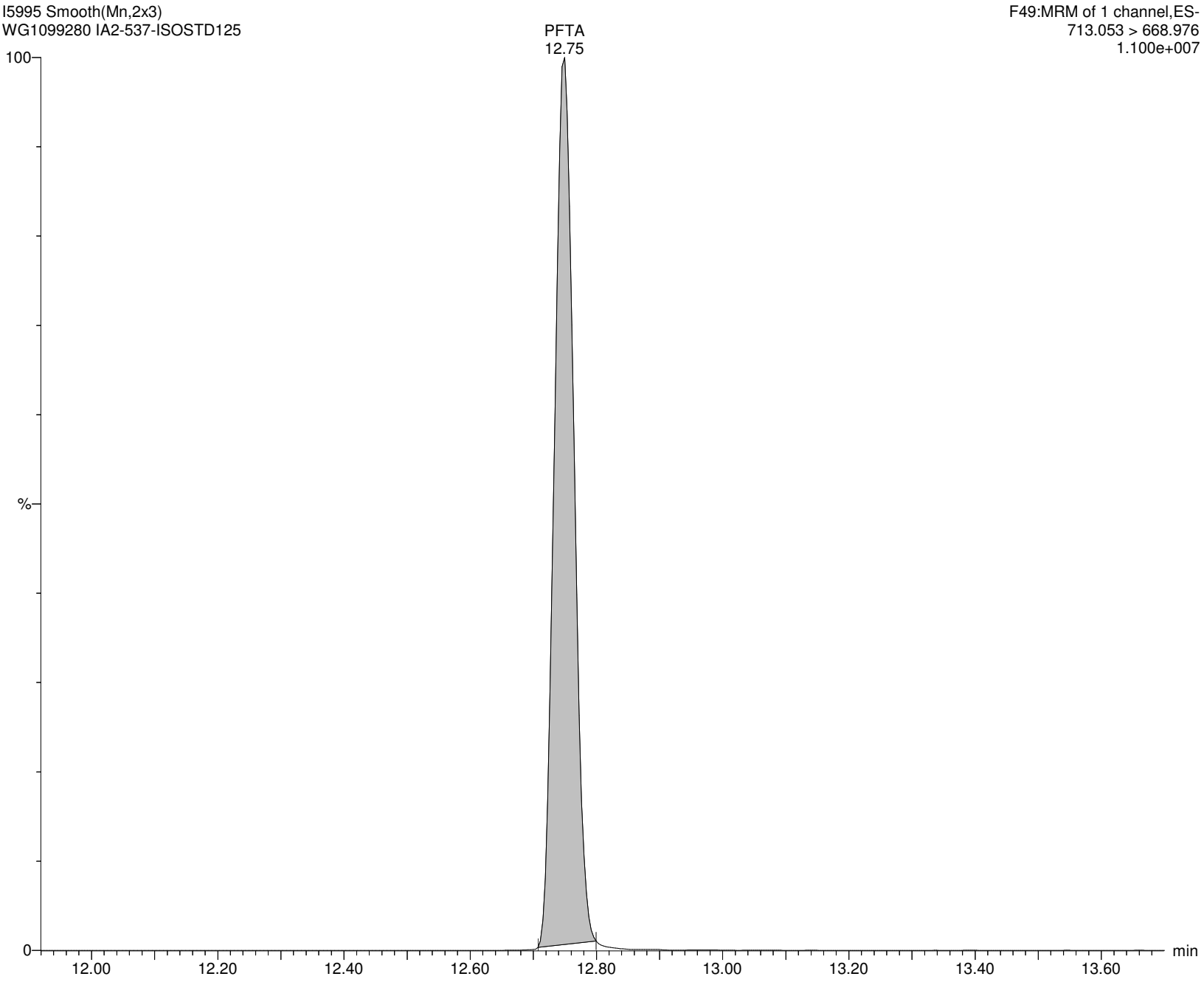

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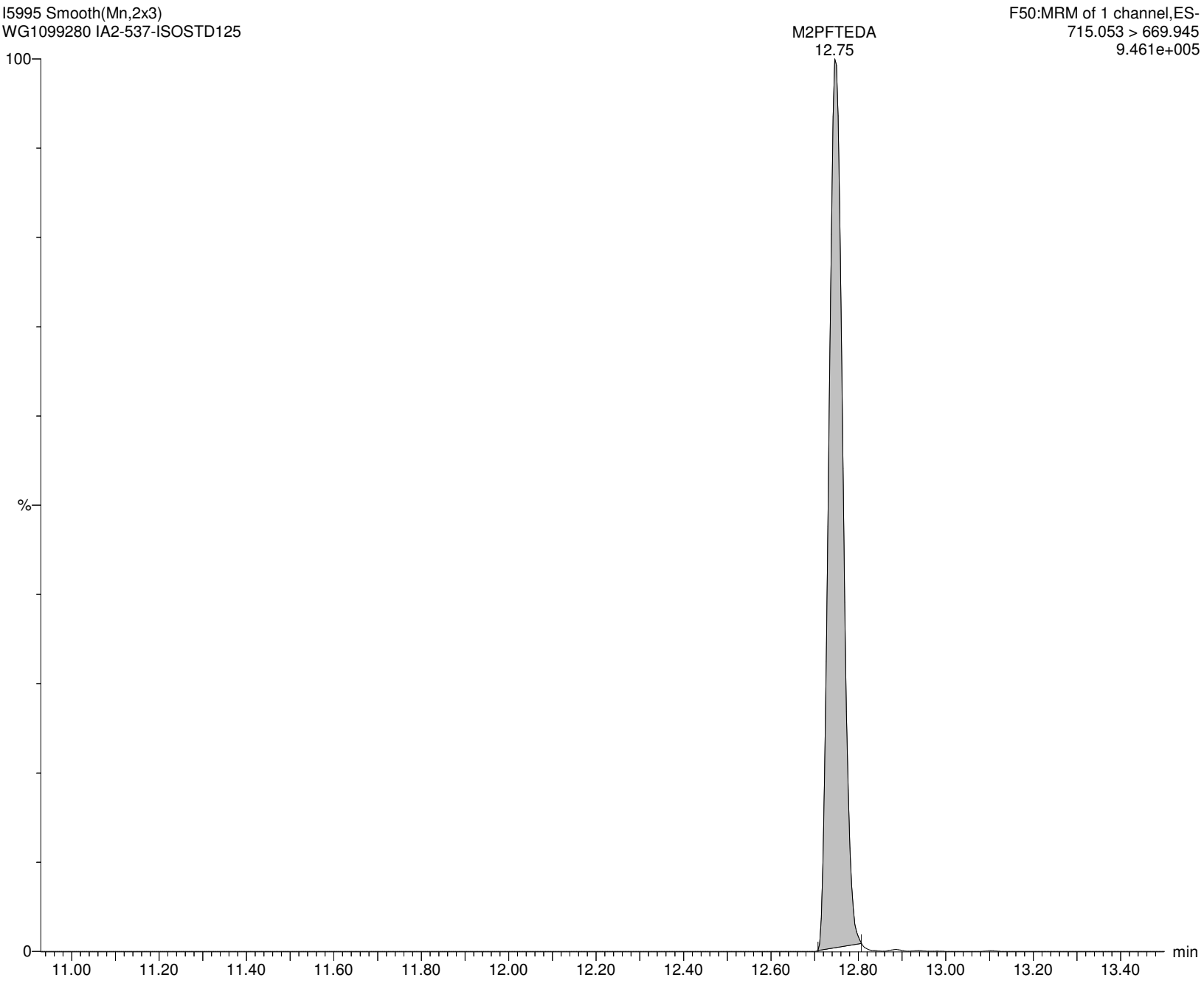

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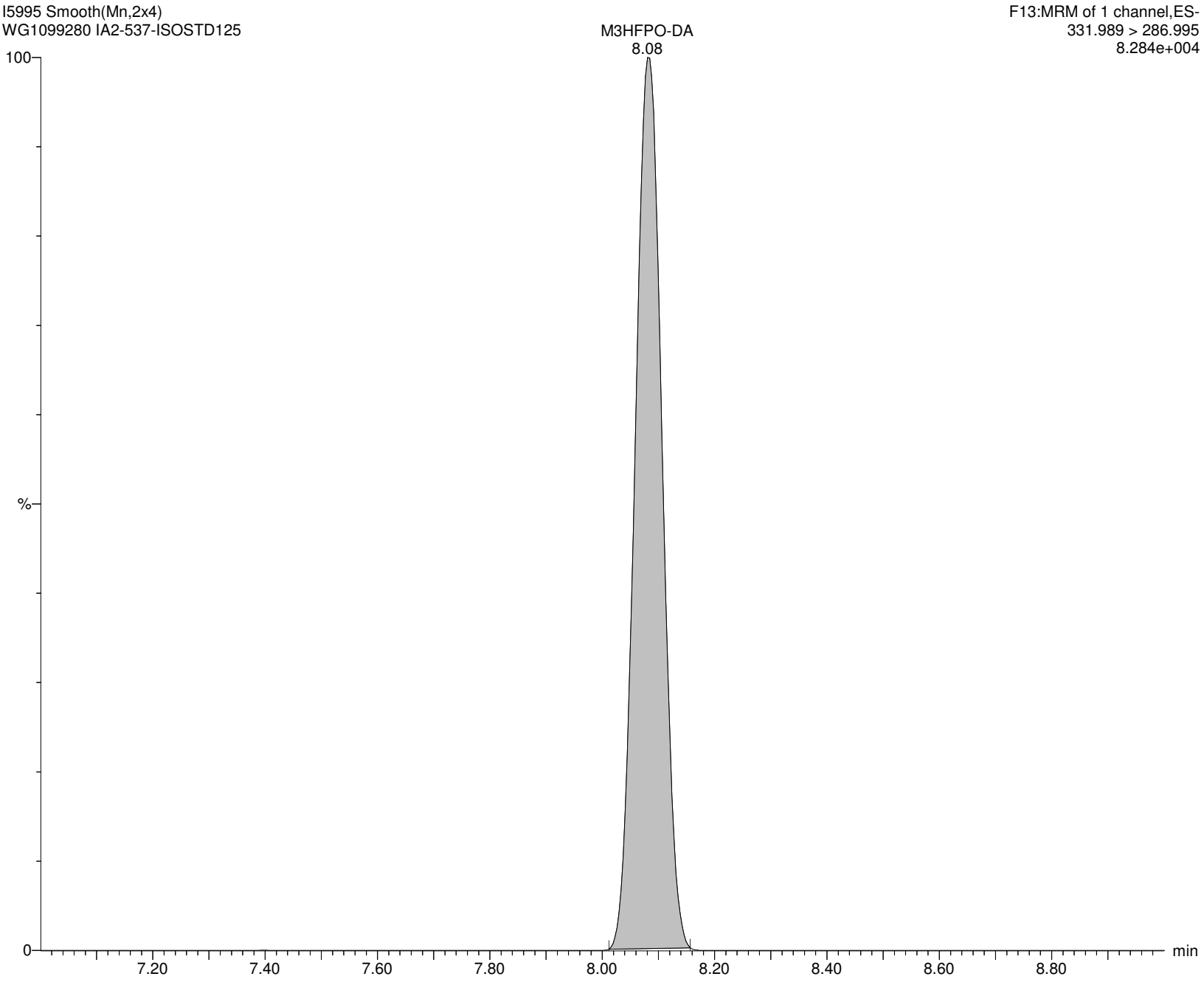

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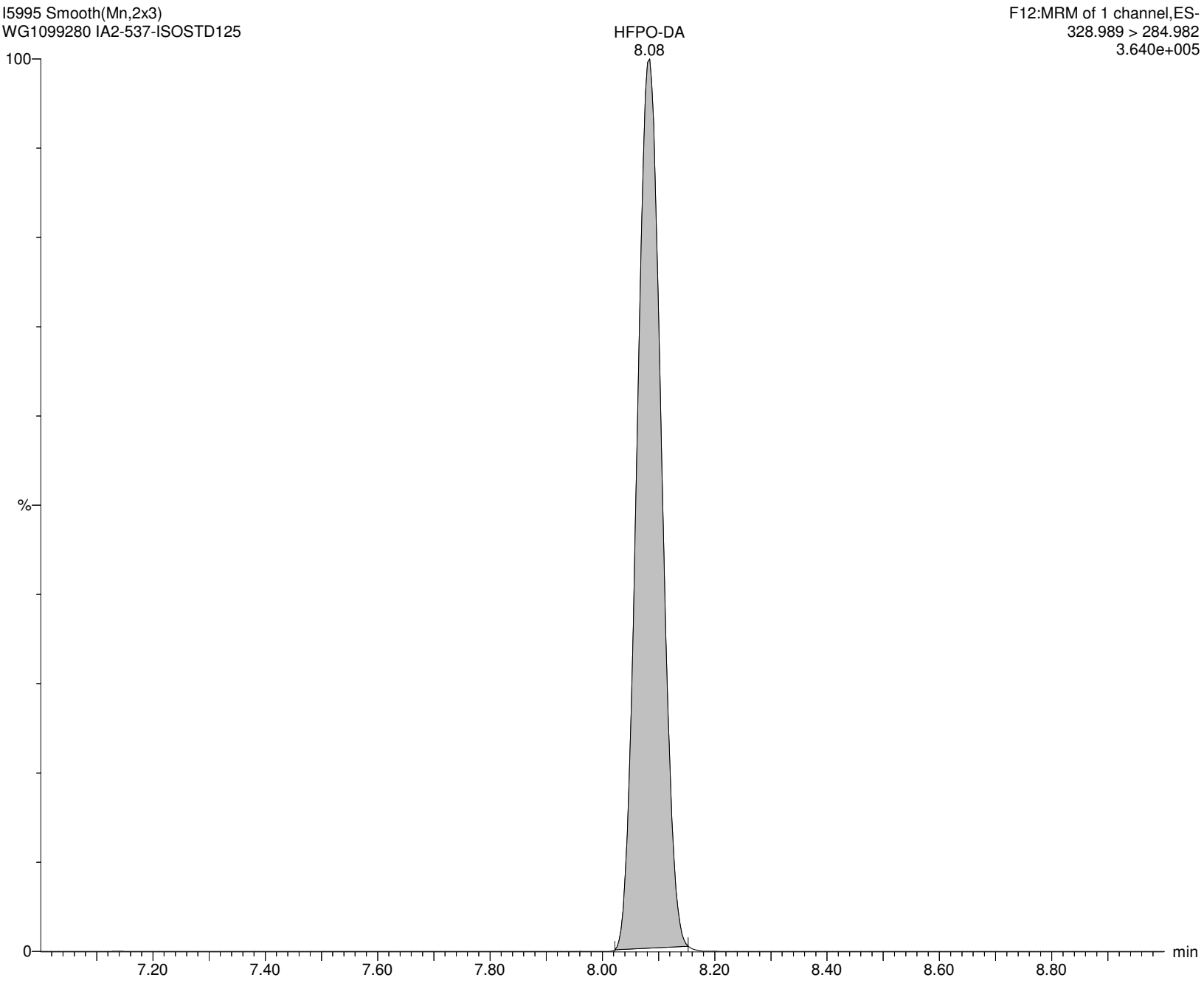

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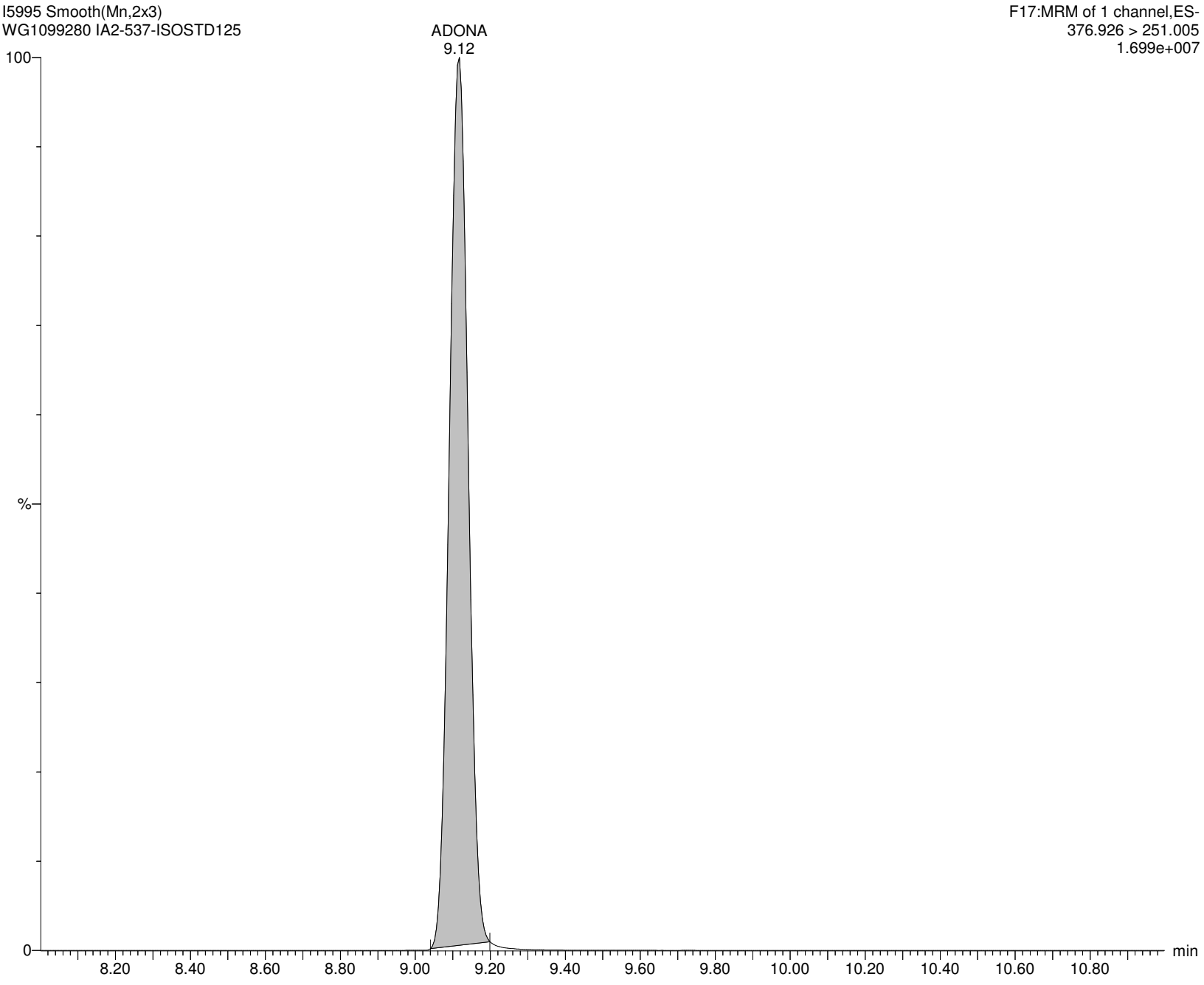

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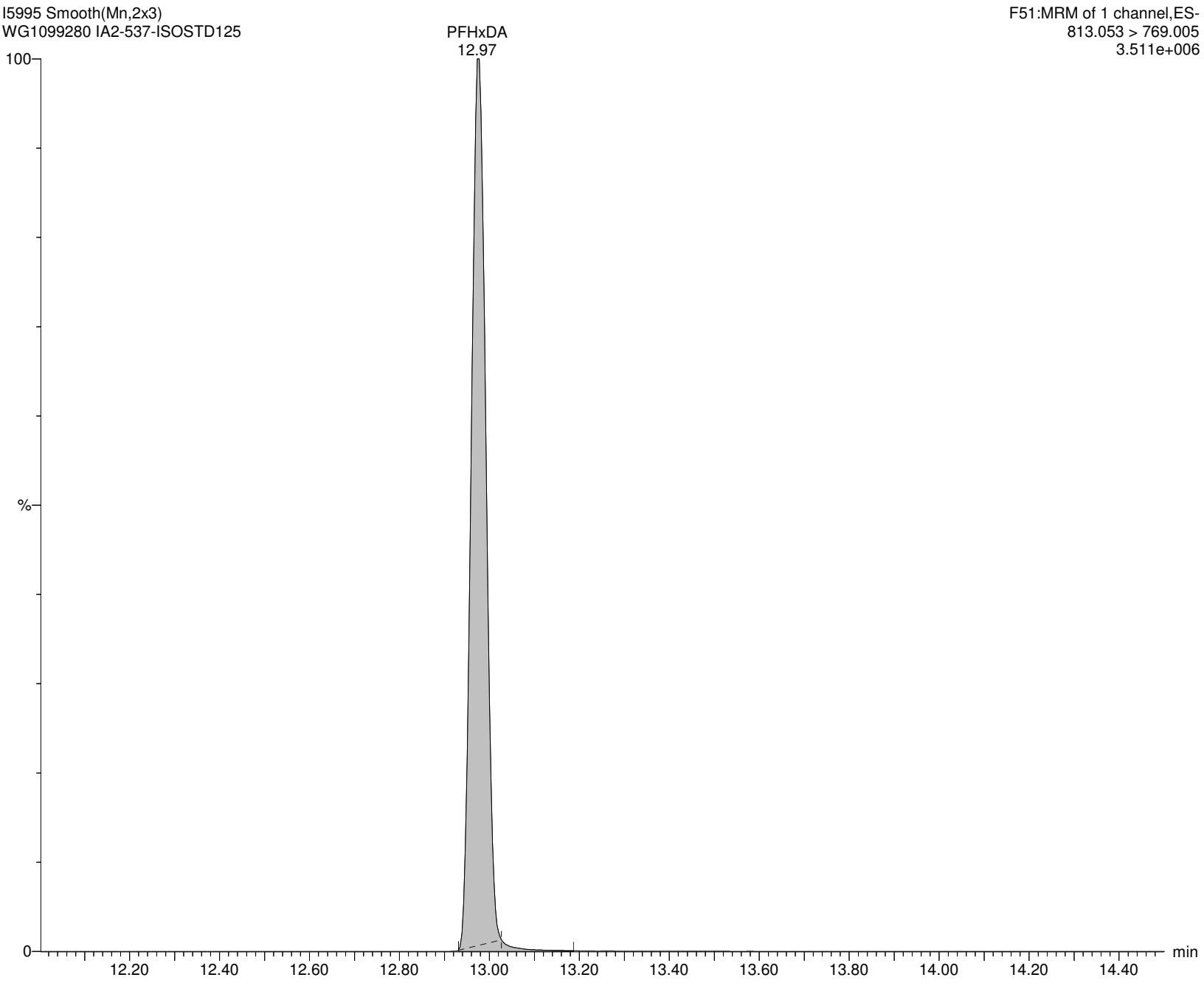

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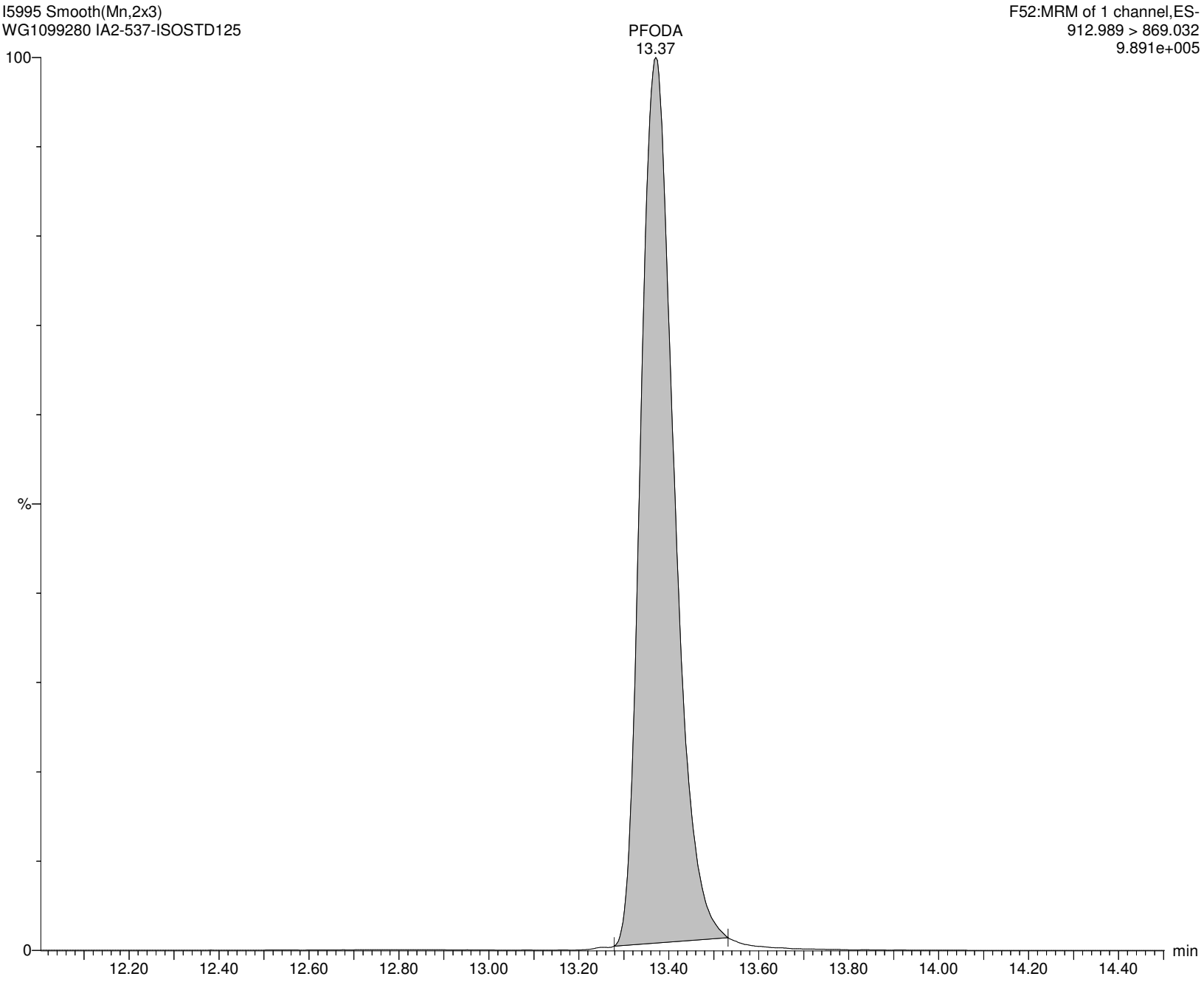

all concentration units in (ng/mL)

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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:56 Eastern Daylight Time

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MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	560799		143.870		na	95.9
2	M3PFBA	INT STD	2.26	215.926 > 172.122	48691		9.756		na	97.6
3	MPFBA	INT STD	2.26	216.926 > 172.137	52956		9.732		na	97.3
4	PFPeA	2706-90-3	5.65	262.926 > 219.002	601037		144.760		na	96.5
5	M5PFPEA	INT STD	5.65	TIC	52807		9.416		na	94.2
6	PFBS	375-73-5	6.39	298.989 > 80.295	114735		127.545		na	96.1
7	M3PFBS	INT STD	6.39	301.989 > 80.254	9147		10.696		na	107.0
8	4:2FTS	757124-72-4	7.57	326.926 > 306.957	55010		132.233		na	94.3
9	M2-4:2FTS	INT STD	7.57	328.989 > 80.973	1247		11.305		na	113.0
10	PFHxA	307-24-4	7.65	312.989 > 269.028	693458		144.229		na	96.2
11	M5PFHxA	INT STD	7.65	317.989 > 273.045	53188		9.765		na	97.6
12	PFPeS	2706-91-4	7.97	348.926 > 80.251	103456		140.557		na	99.7
13	PFHpA	375-85-9	8.93	362.926 > 319.014	810575		144.889		na	96.6
14	M4PFHpA	INT STD	8.93	366.926 > 321.979	60854		9.836		na	98.4
15	br-PFHxS	355-46-4	8.86	398.926 > 80.295	20376		27.713		na	97.2
16	L-PFHxS	355-46-4	9.09	398.926 > 80.295	86402		120.204		na	98.9
17	PFHxS	355-46-4		398.926 > 80.295	106778		147.917		na	
18	M3PFHxS	INT STD	9.09	401.926 > 80.317	7615		9.680		na	96.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		na	
20	L-PFOA	335-67-1	9.86	412.989 > 368.9	812400		144.943		na	96.6
21	M2PFOA	INT STD	9.86	415.032 > 369.968	56591		9.145		na	91.4
22	PFOA	335-67-1		412.989 > 368.9	812400		144.943		na	
23	M8PFOA	INT STD	9.86	420.989 > 375.979	54075		9.838		na	98.4
24	6:2FTS	27619-97-2	9.82	426.989 > 406.921	48698		153.091		na	107.4
25	M2-6:2FTS	INT STD	9.82	428.989 > 408.917	6110		14.671		na	146.7
26	PFHpS	375-92-8	9.95	448.926 > 80.257	60071		141.371		na	99.2
27	PFNA	375-95-1	10.60	462.989 > 418.931	570830		144.340		na	96.2
28	M9PFNA	INT STD	10.59	472.053 > 426.947	47453		9.187		na	91.9
29	br-PFOS	1763-23-1	10.46	498.989 > 80.294	26507		31.154		na	103.8
30	L-PFOS	1763-23-1	10.65	498.989 > 80.294	71329		118.614		na	100.1
31	PFOS	1763-23-1		498.989 > 80.294	97836		149.768		na	
32	M4PFOS	INT STD	10.65	503.032 > 80.306	5211		8.593		na	85.9
33	M8PFOS	INT STD	10.64	507.053 > 80.294	6141		9.653		na	96.5
34	PFDA	335-76-2	11.21	513.053 > 468.906	477120		143.821		na	95.9
35	M2PFDA	INT STD	11.21	515.053 > 469.934	35539		8.477		na	84.8
36	M6PFDA	INT STD	11.21	519.053 > 473.931	39022		9.093		na	90.9
37	8:2FTS	39108-34-4	11.21	526.989 > 506.946	26809		143.503		na	99.7
38	M2-8:2FTS	INT STD	11.21	529.117 > 80.953	549		8.539		na	85.4
39	PFNS	68259-12-1	11.25	548.989 > 80.249	65076		142.583		na	99.0

all concentration units in (ng/mL)

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Printed: Thursday, March 22, 2018 09:29:56 Eastern Daylight Time

ID: IA2-537-ISOSTD150
Name: I5996
Date: 21-Mar-2018
Time: 18:04:41
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.55	573.096 > 418.987	5398		9.838		na	98.4
41	NMeFOSAA	2355-31-9	11.56	570.053 > 418.917	85683		151.099		na	100.7
42	PFUnA	2058-94-8	11.76	562.989 > 518.903	442424		145.256		na	96.8
43	M7-PFUDA	INT STD	11.75	570.053 > 524.923	29592		8.428		na	84.3
44	PFDS	335-77-3	11.77	598.926 > 80.314	71951		146.886		na	101.5
45	FOSA	754-91-6	11.68	497.989 > 78.245	240743		143.726		na	95.8
46	M8FOSA	INT STD	11.68	506.053 > 78.286	20512		10.833		na	108.3
47	d5-NEtFOSAA	INT STD	11.84	589.117 > 418.929	5033		9.682		na	96.8
48	NEtFOSAA	2991-50-6	11.85	583.989 > 418.927	67220		145.472		na	97.0
49	PFDoA	307-55-1	12.23	612.989 > 568.967	518710		141.572		na	94.4
50	MPFDOA	INT STD	12.23	614.989 > 569.92	37426		10.301		na	103.0
51	PFTrDA	72629-94-8	12.58	663.053 > 618.969	524625		151.613		na	101.1
52	PFTA	376-06-7	12.75	713.053 > 668.976	427677		138.915		na	92.6
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	36093		12.637		na	126.4
54	M3HFPO-DA	INT STD	8.08	331.989 > 286.995	4350		374.186		na	187.1
55	HFPO-DA	13252-13-6	8.08	328.989 > 284.982	23912		3221.527		na	107.4
56	ADONA	958445-44-8	9.11	376.926 > 251.005	1090548		135.206		na	95.3
57	PFHxDA		12.97	813.053 > 769.005	156410		147.616		na	98.4
58	PFODA		13.38	912.989 > 869.032	94248		143.493		na	95.7

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
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Name: I5996
ID: IA2-537-ISOSTD150
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User: LCMS01:PB
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
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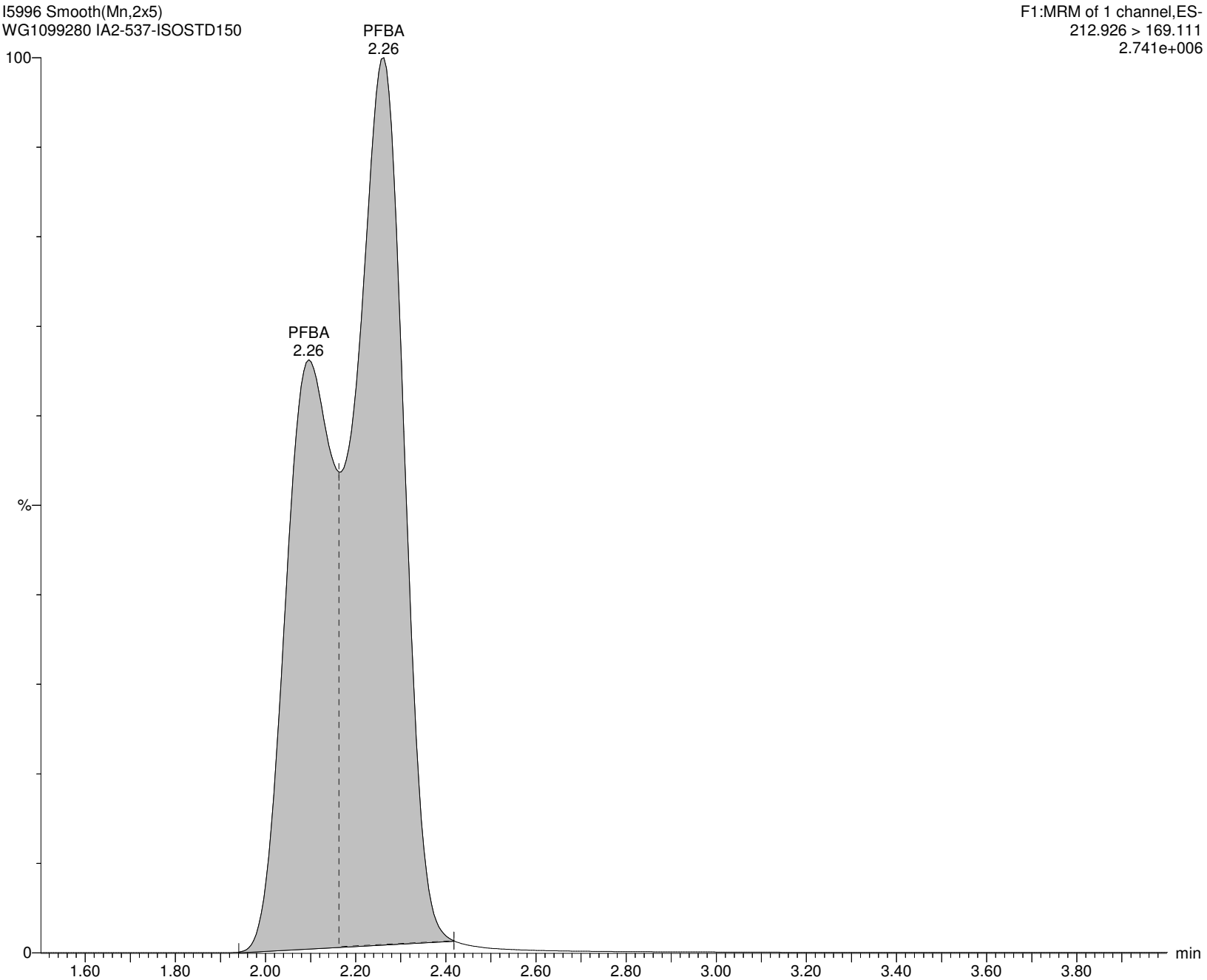

all concentration units in (ng/mL)

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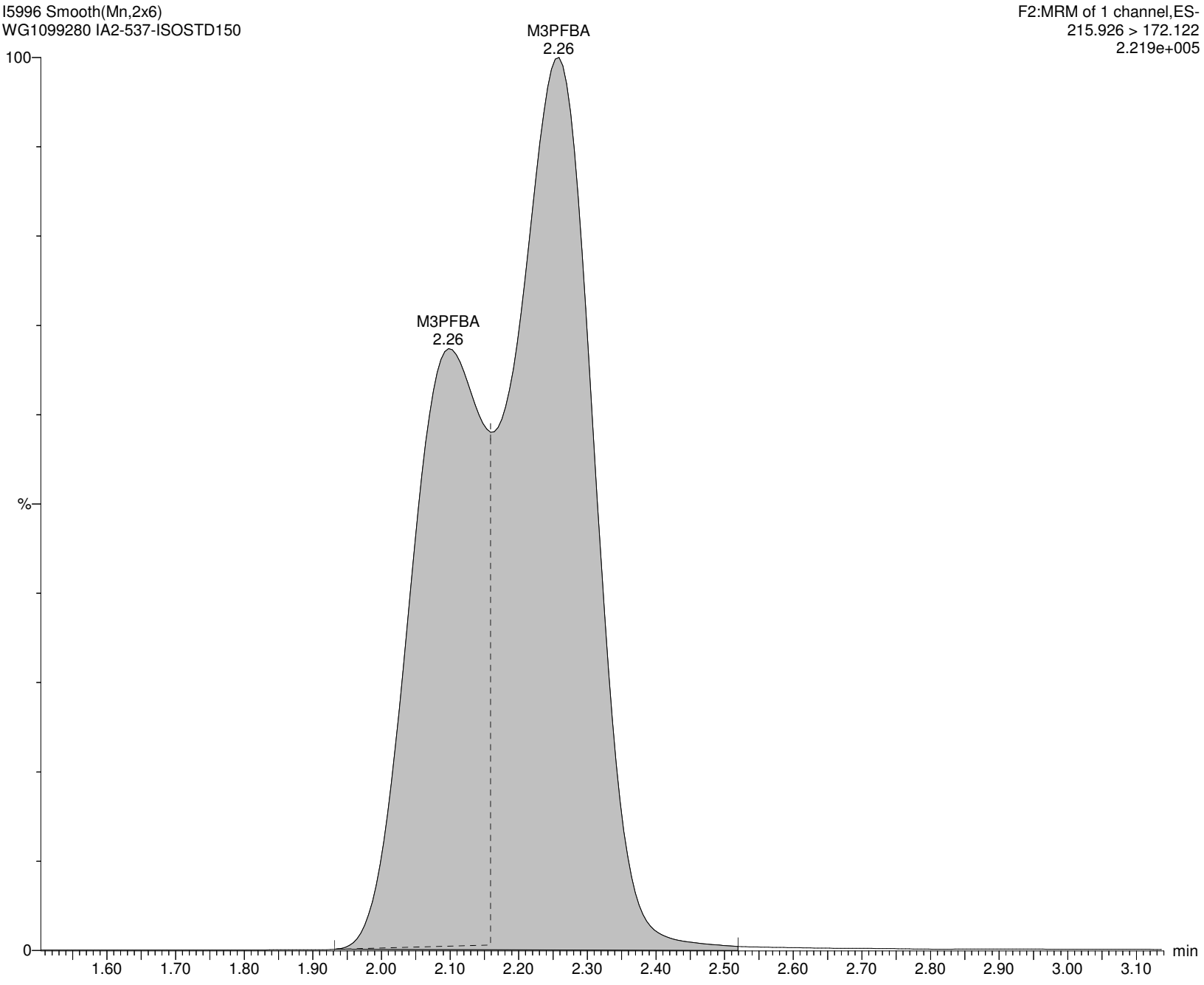

all concentration units in (ng/mL)

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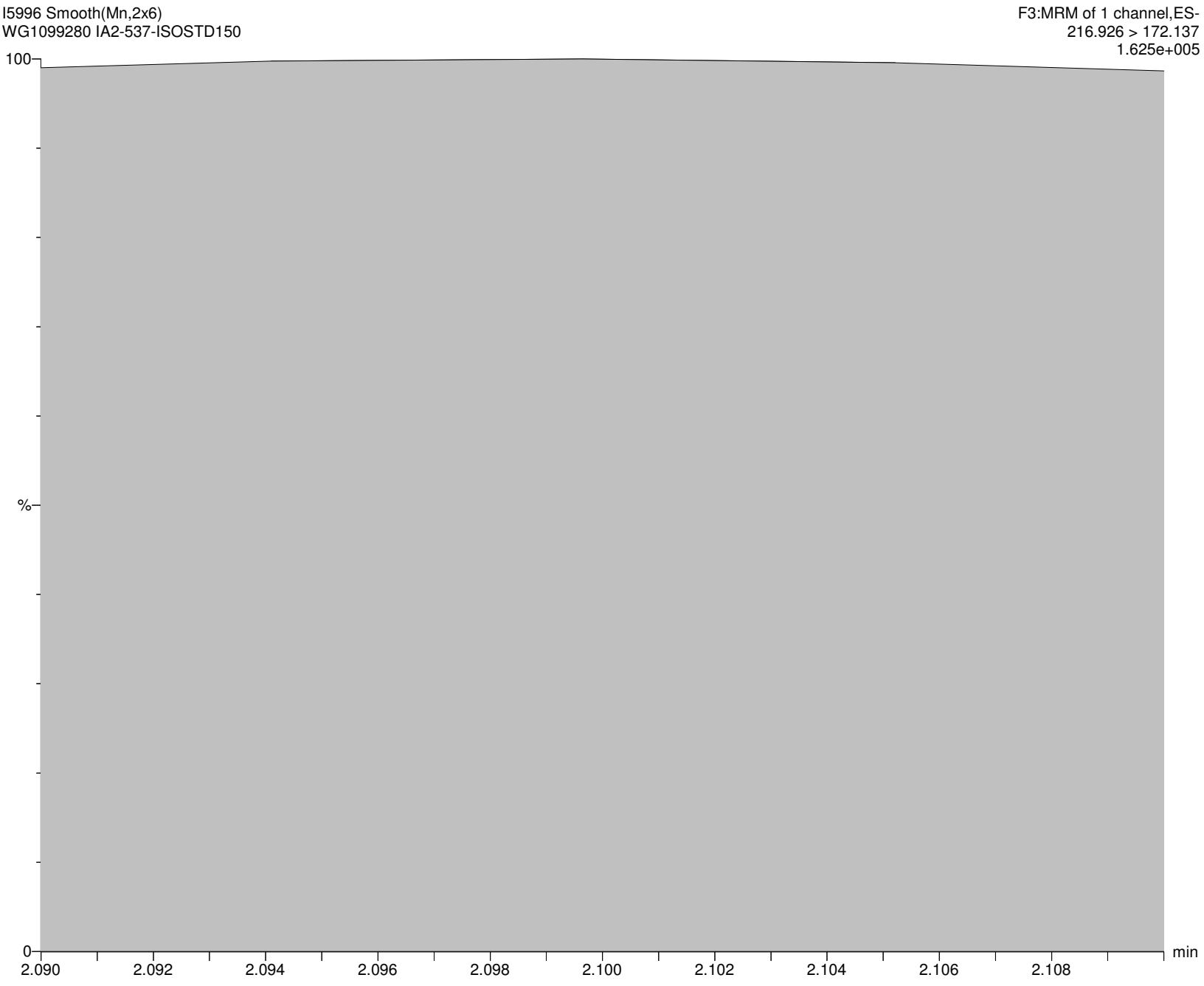

all concentration units in (ng/mL)

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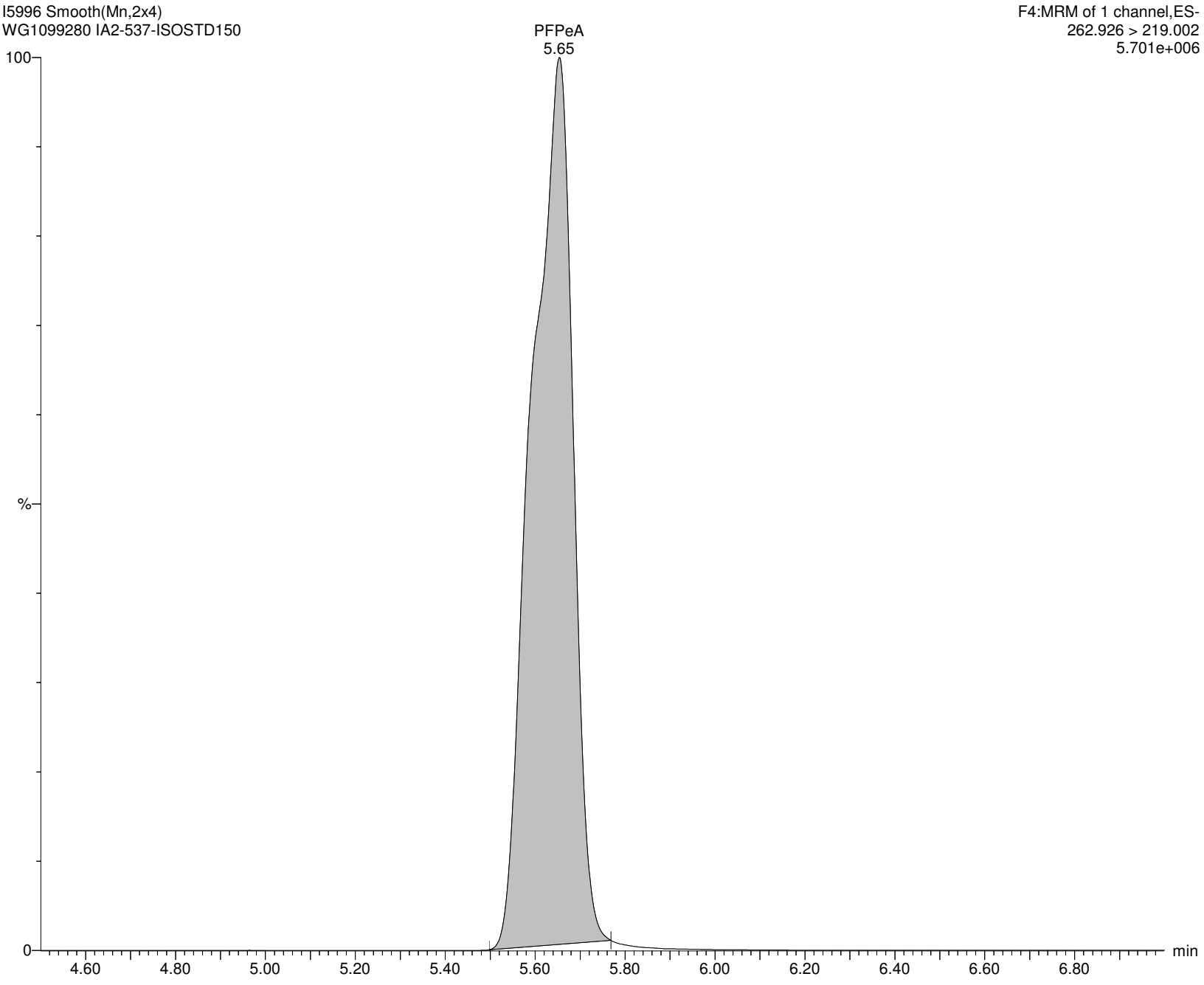

all concentration units in (ng/mL)

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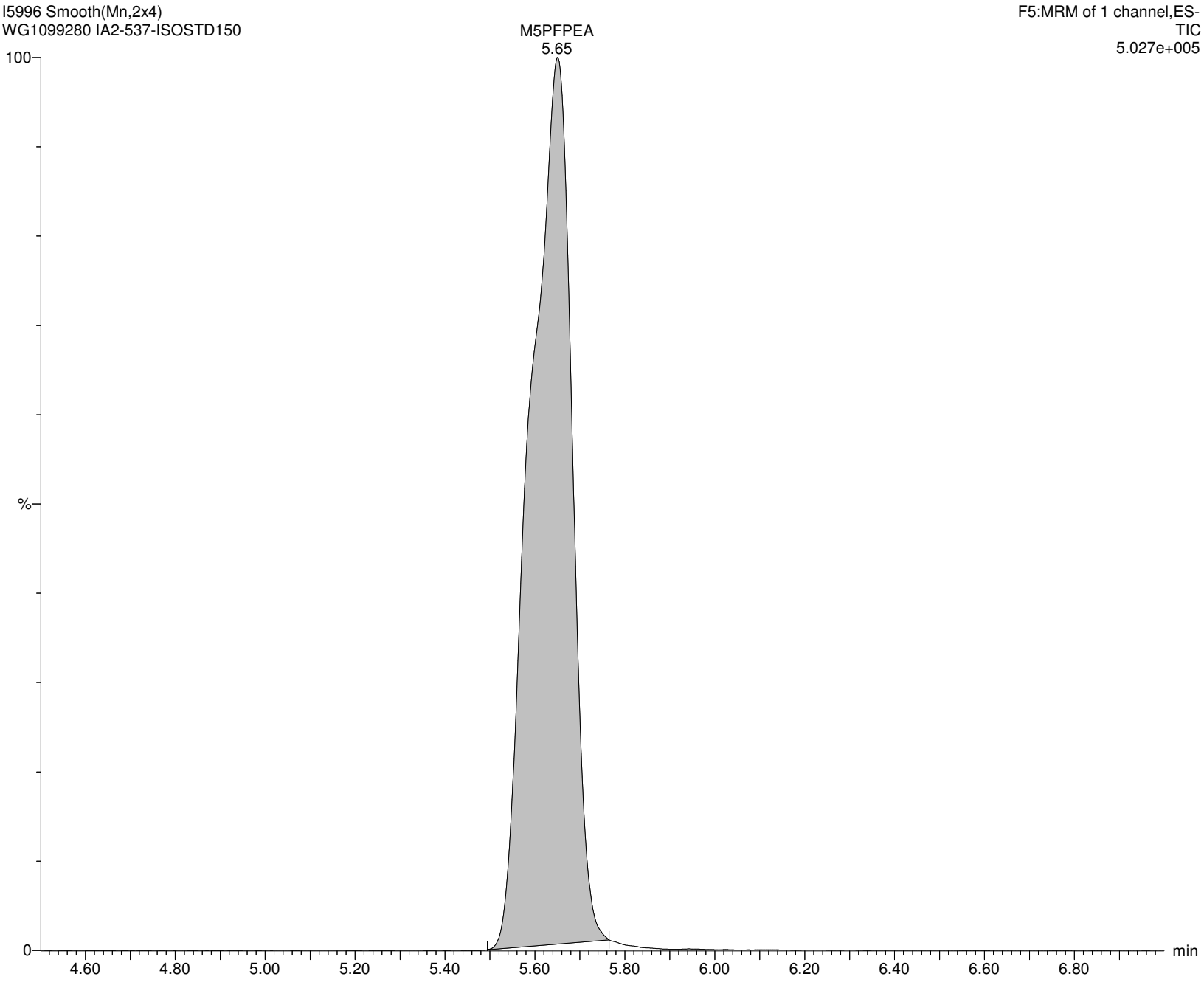

all concentration units in (ng/mL)

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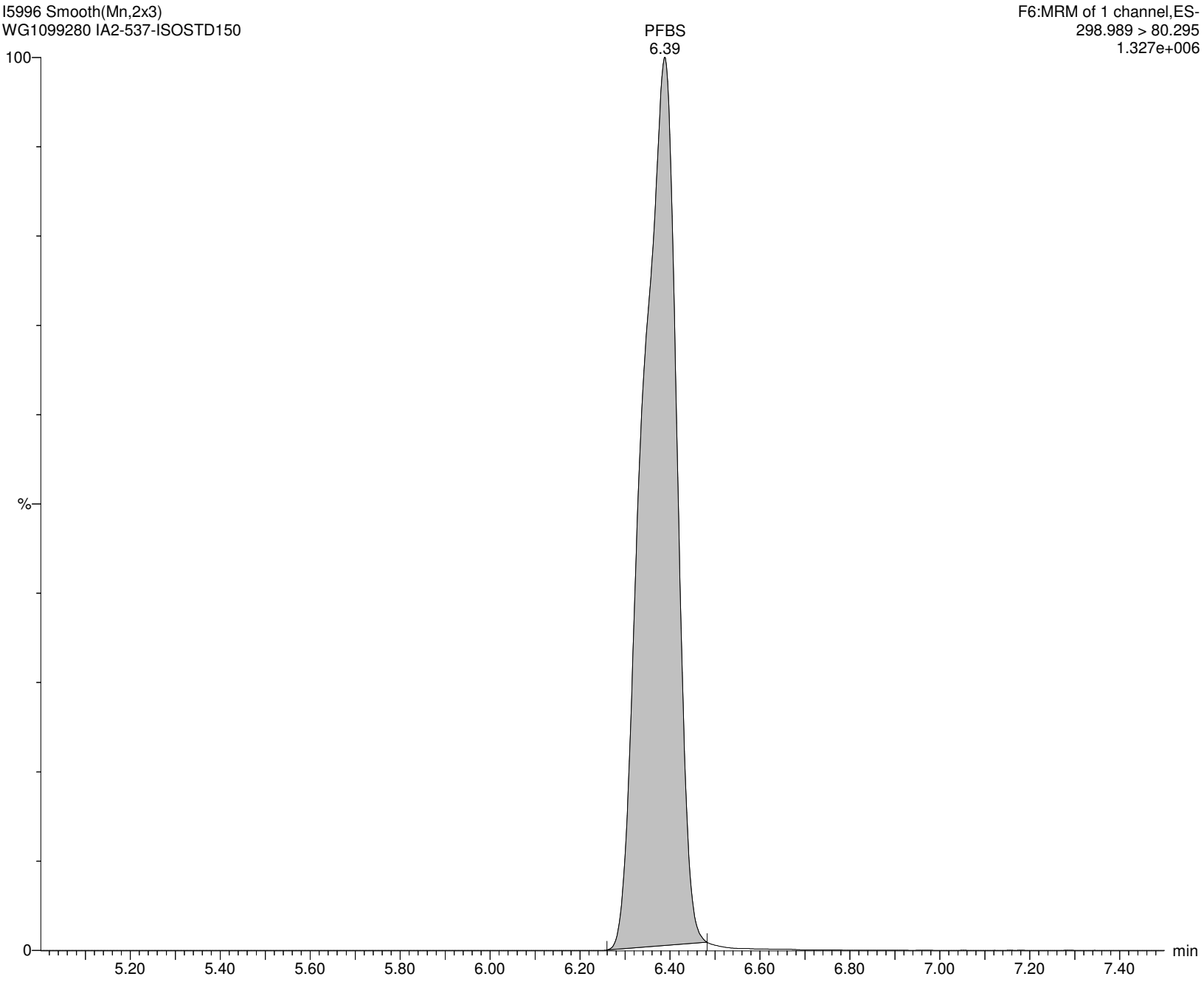

all concentration units in (ng/mL)

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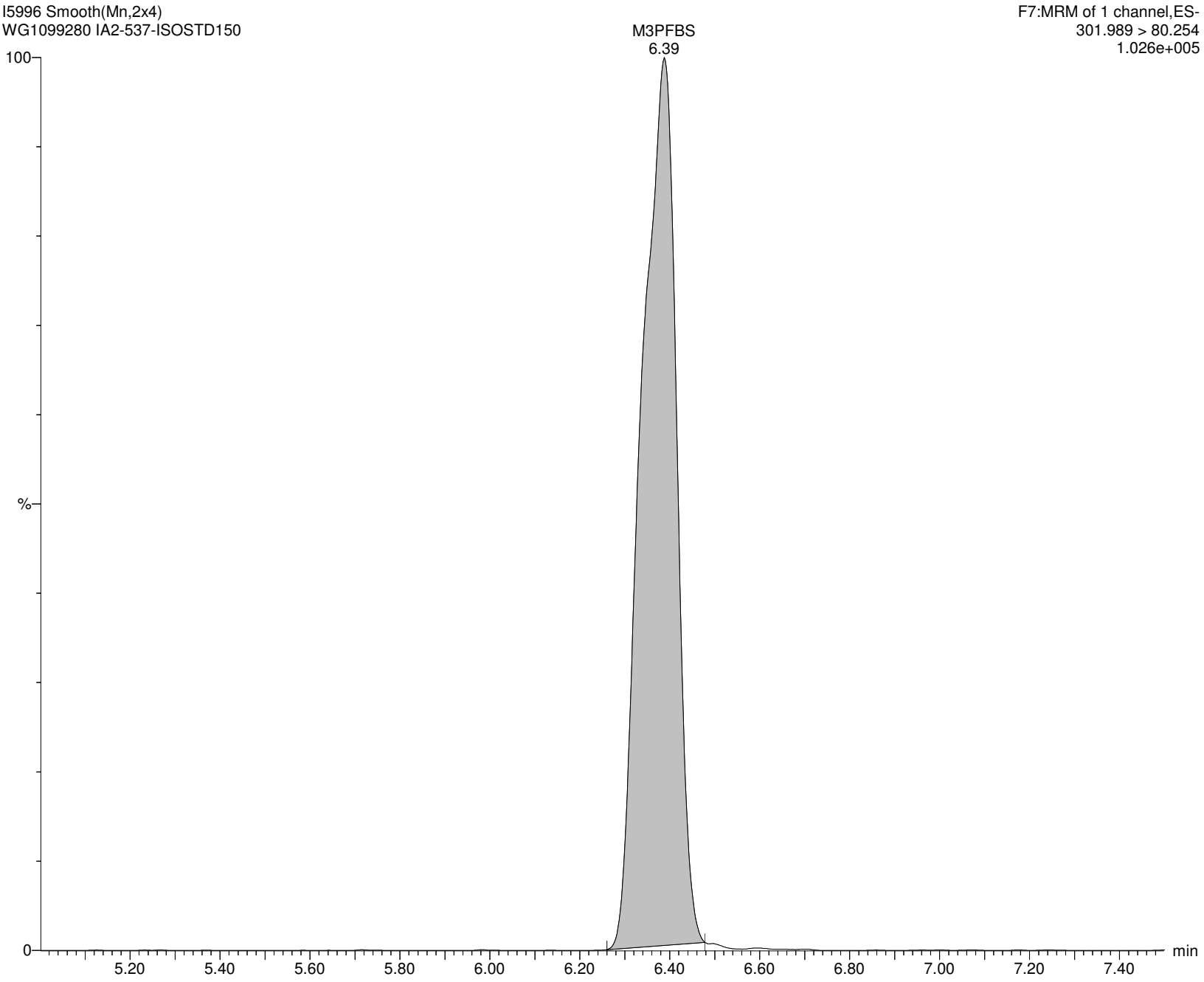

all concentration units in (ng/mL)

Alpha Analytical Inc.
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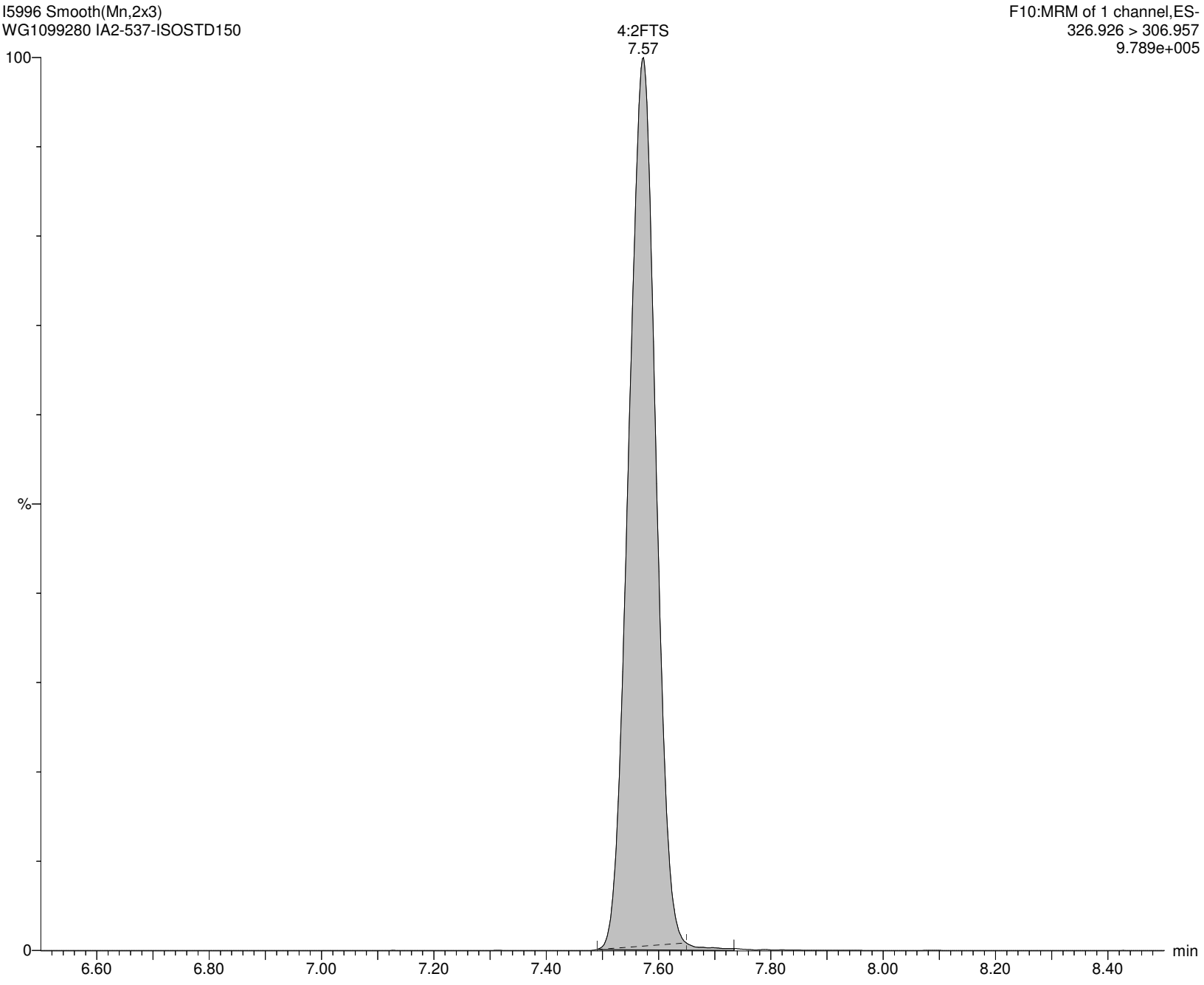

all concentration units in (ng/mL)

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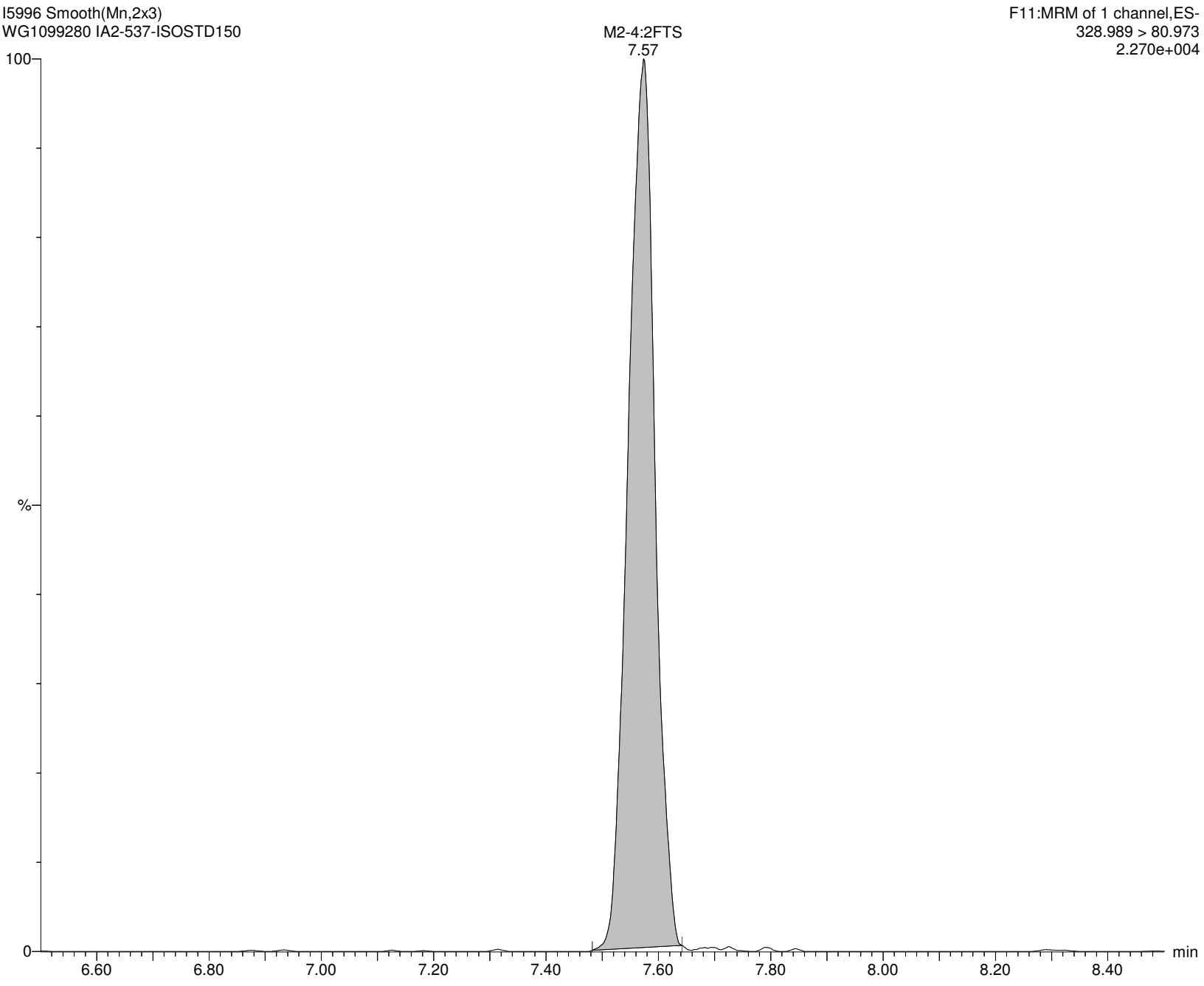

all concentration units in (ng/mL)

Alpha Analytical Inc.
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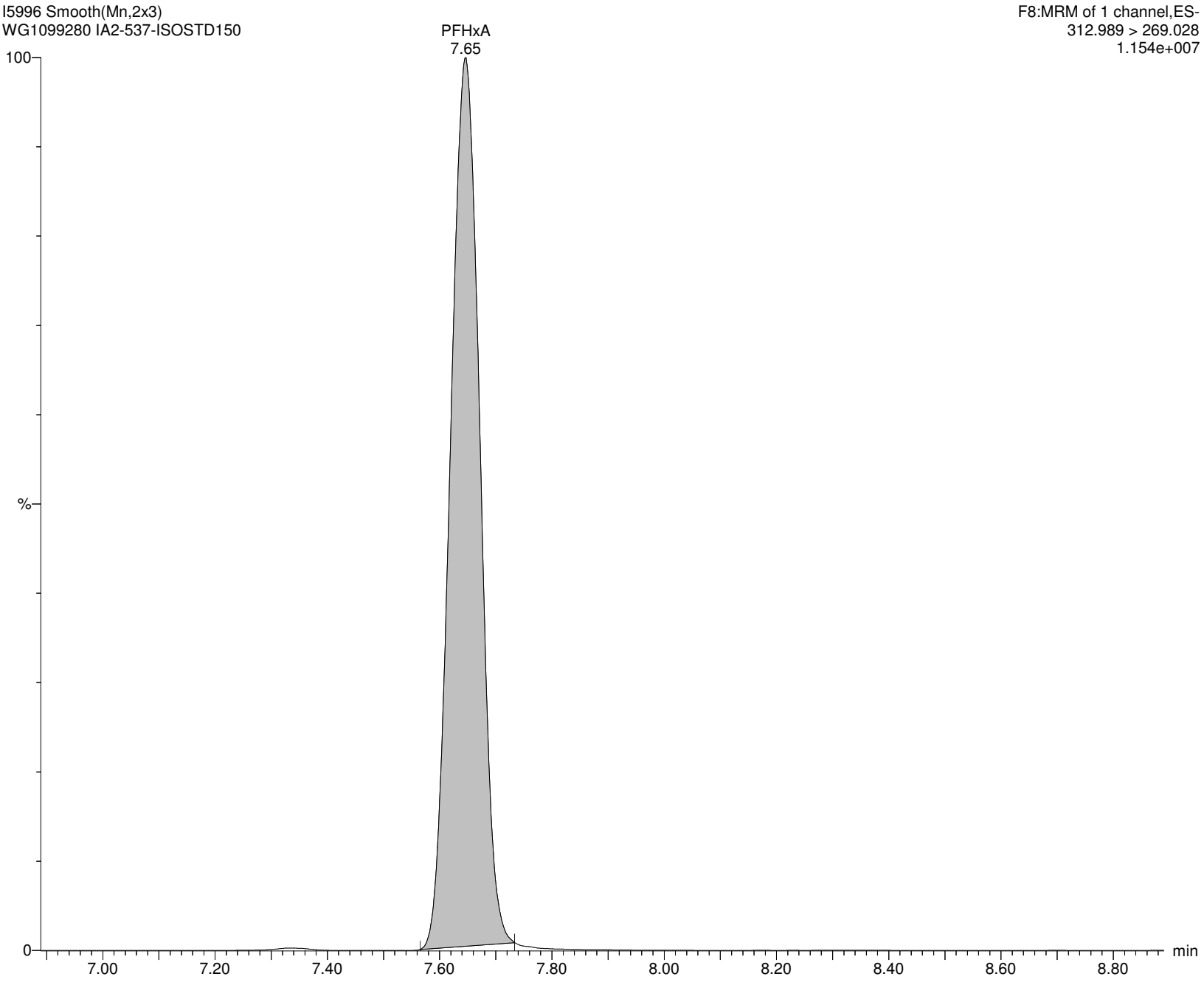

all concentration units in (ng/mL)

Alpha Analytical Inc.
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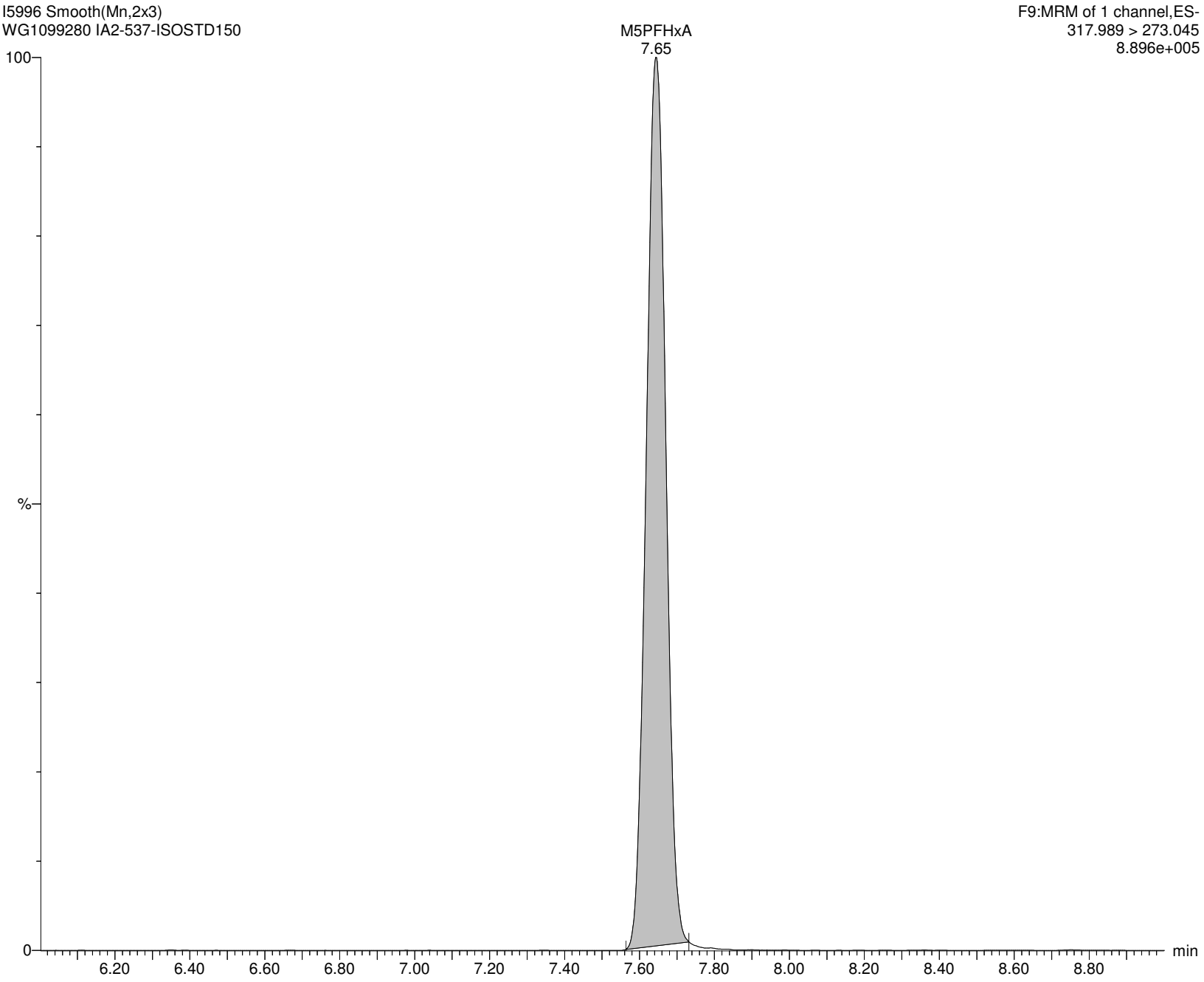

all concentration units in (ng/mL)

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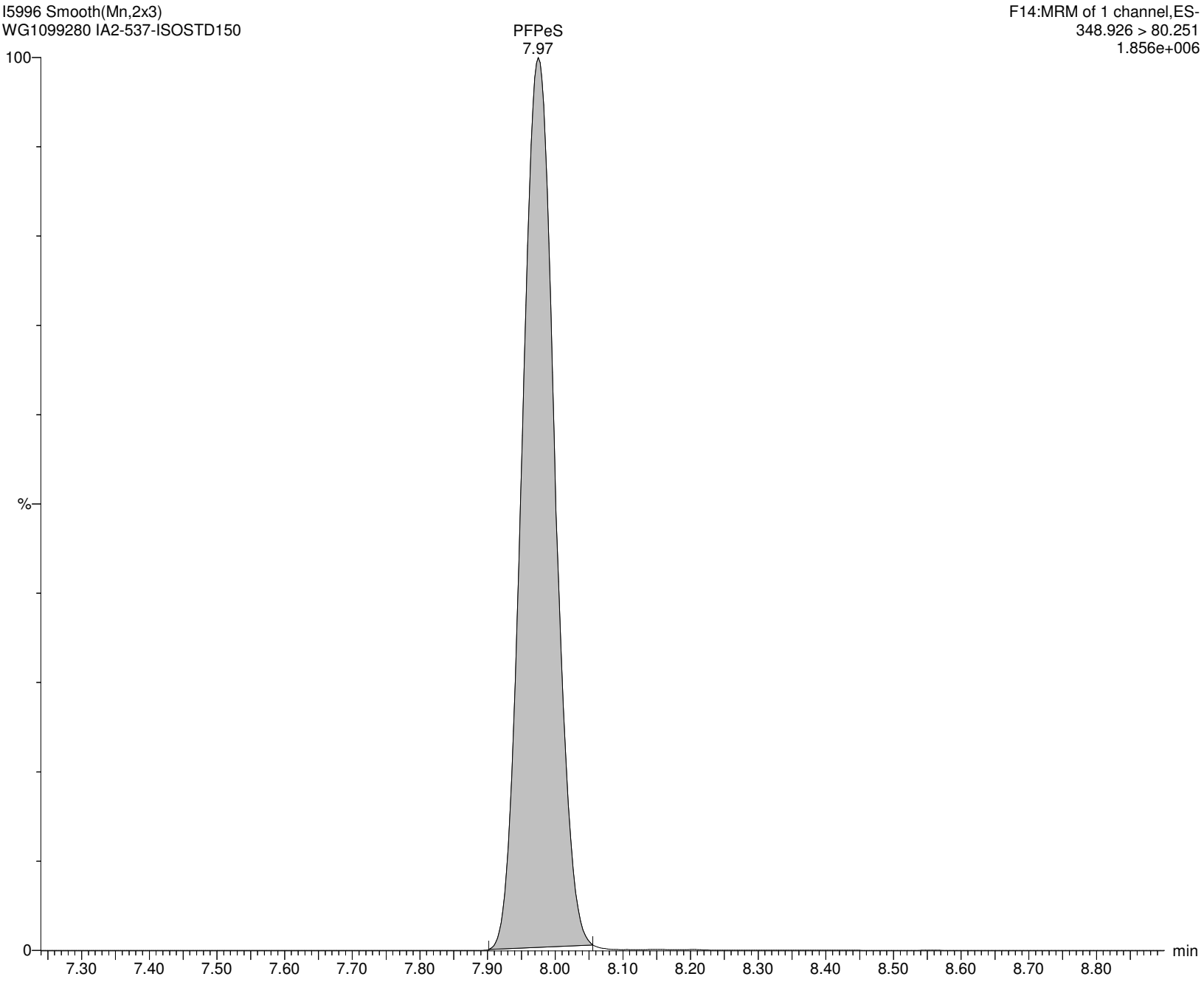

all concentration units in (ng/mL)

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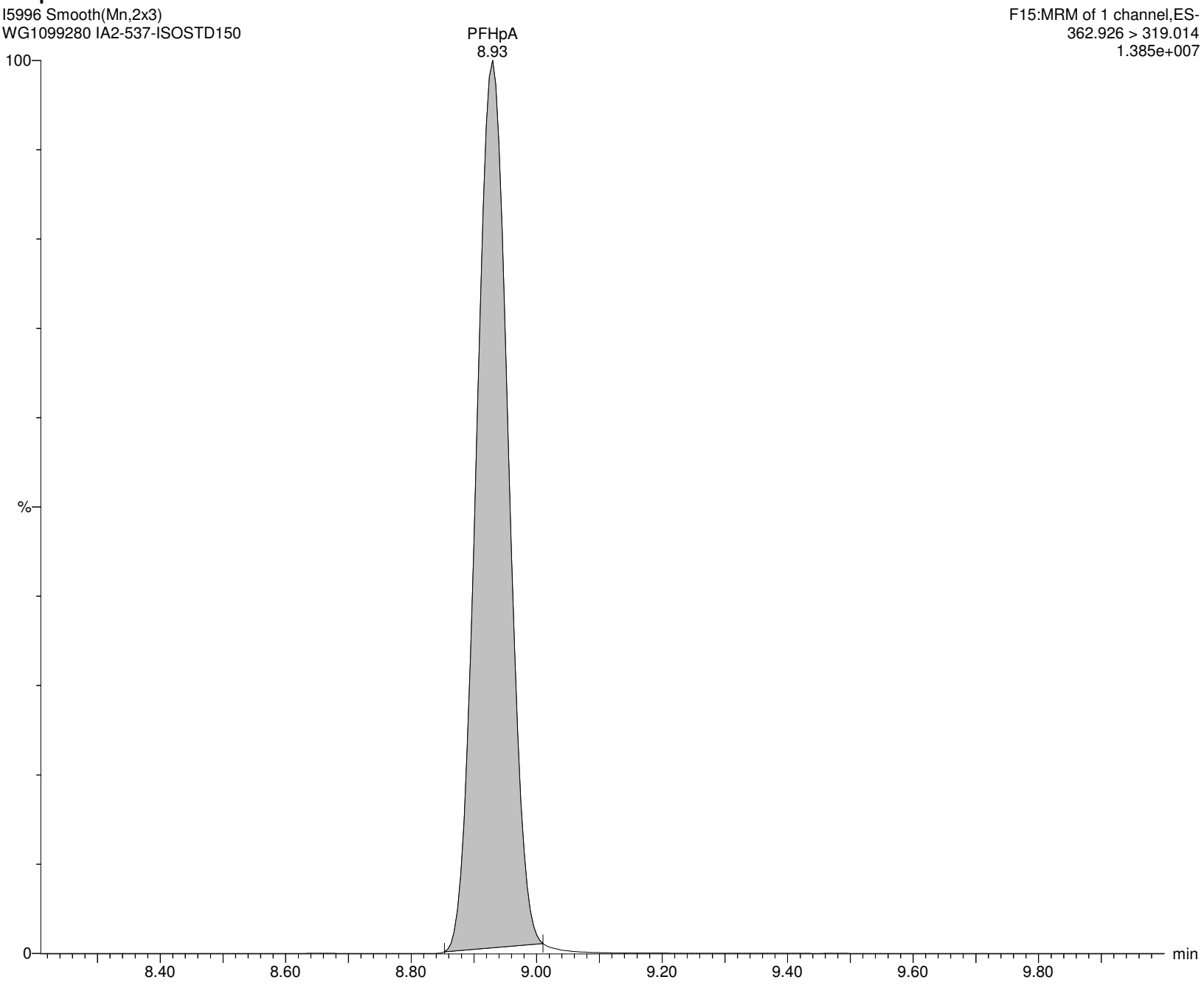

all concentration units in (ng/mL)

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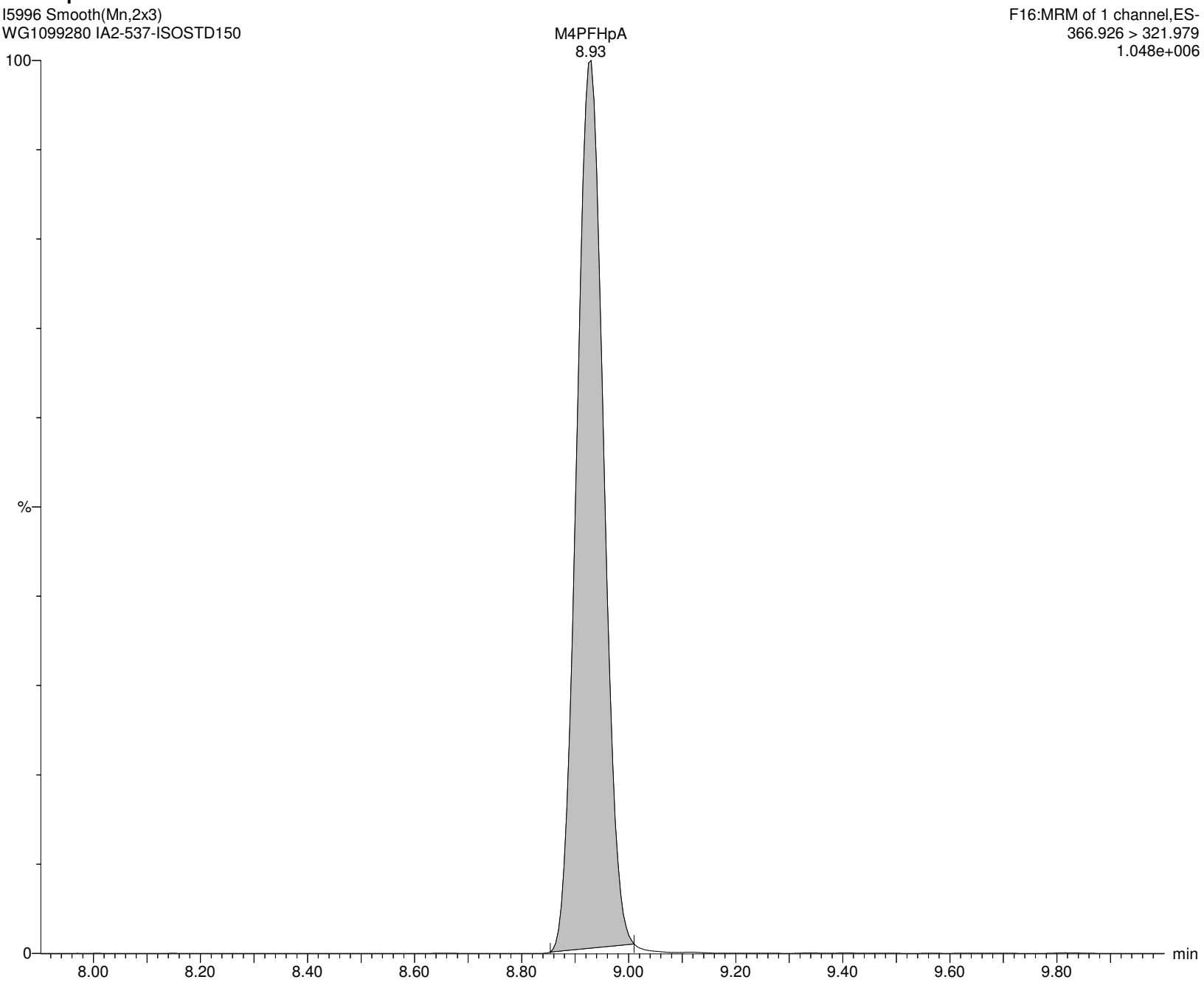

all concentration units in (ng/mL)

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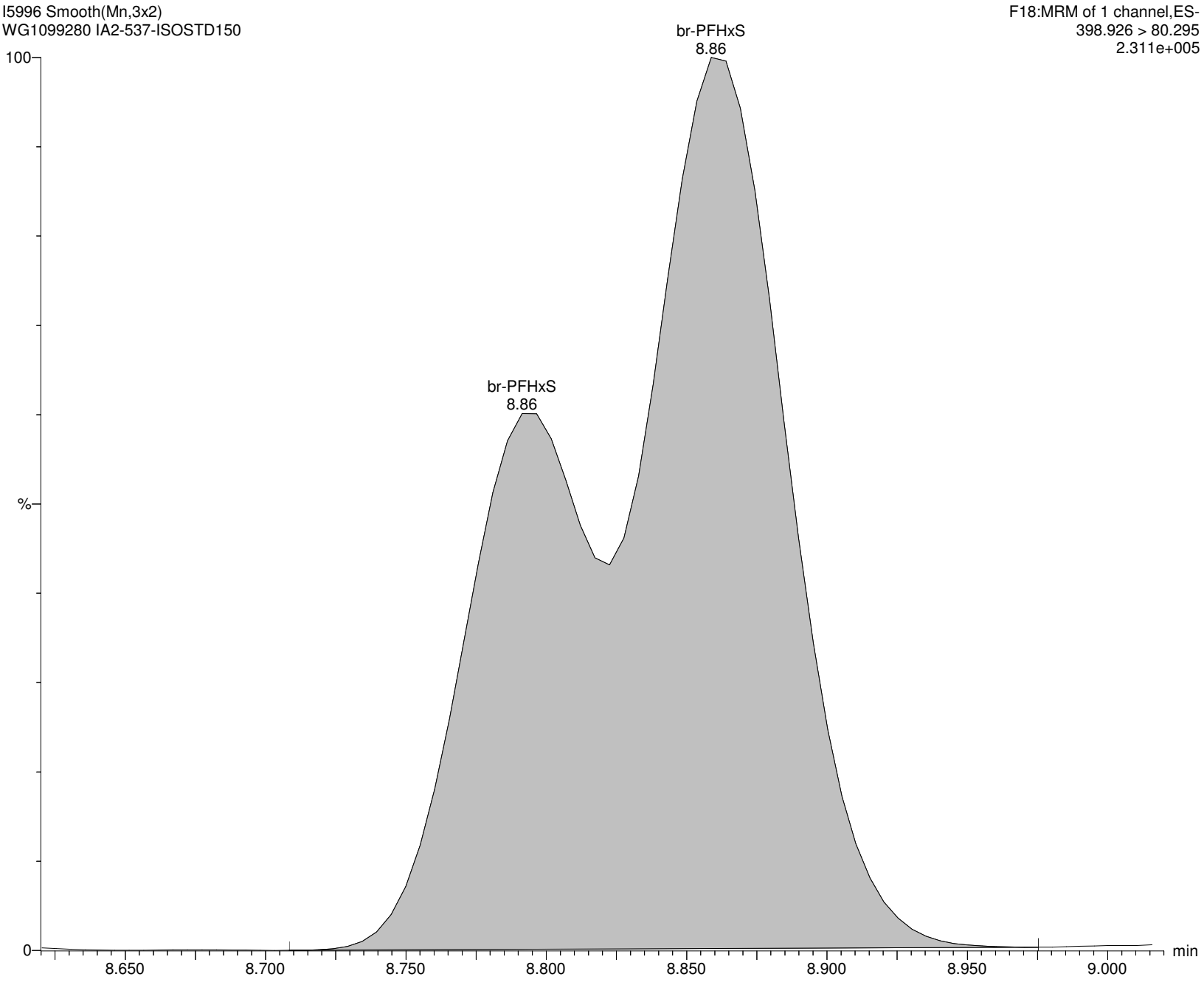

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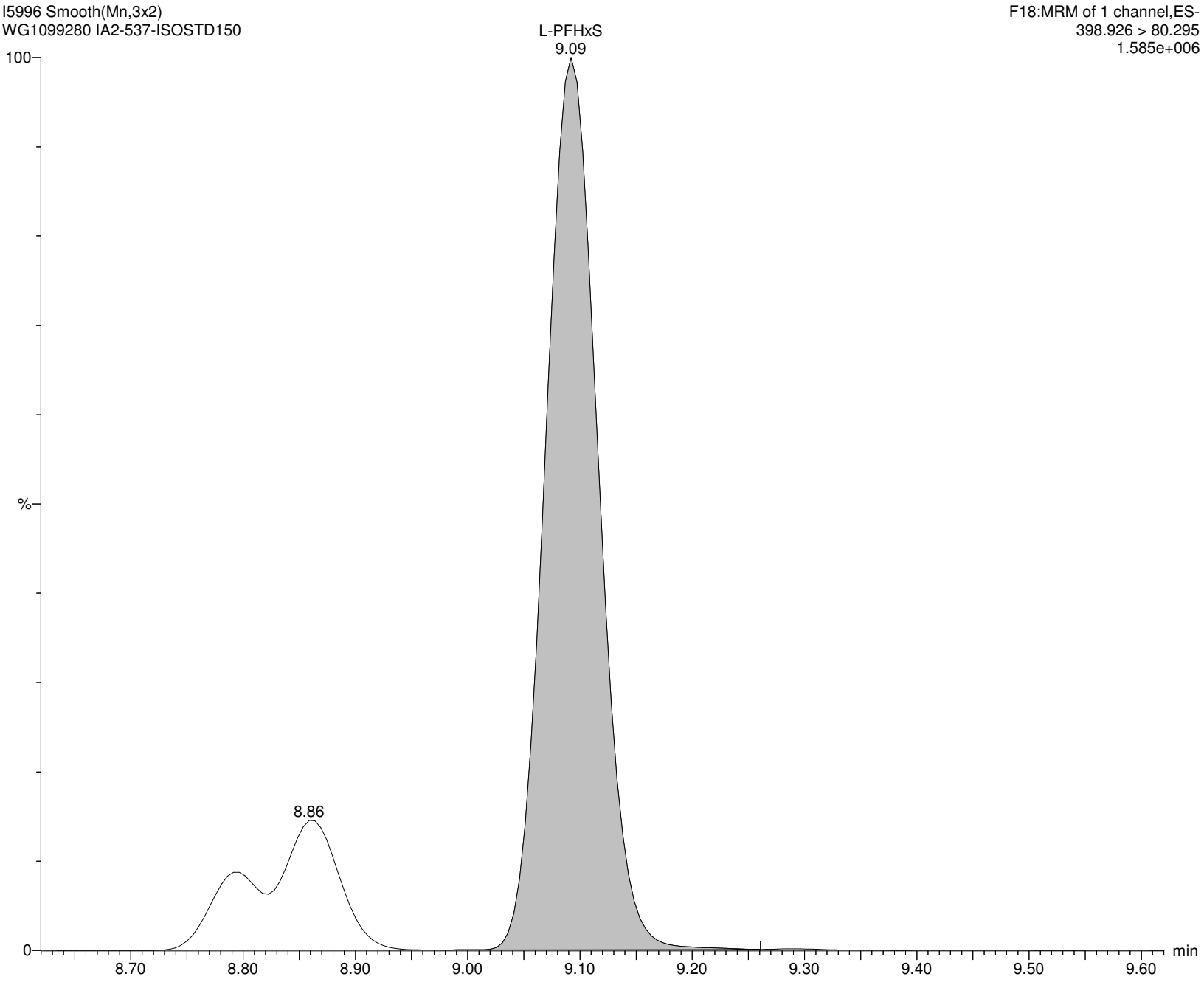

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Printed: Thursday, March 22, 2018 09:29:56 Eastern Daylight Time

Name: I5996
ID: IA2-537-ISOSTD150
Date: 21-Mar-2018
Time: 18:04:41
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Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
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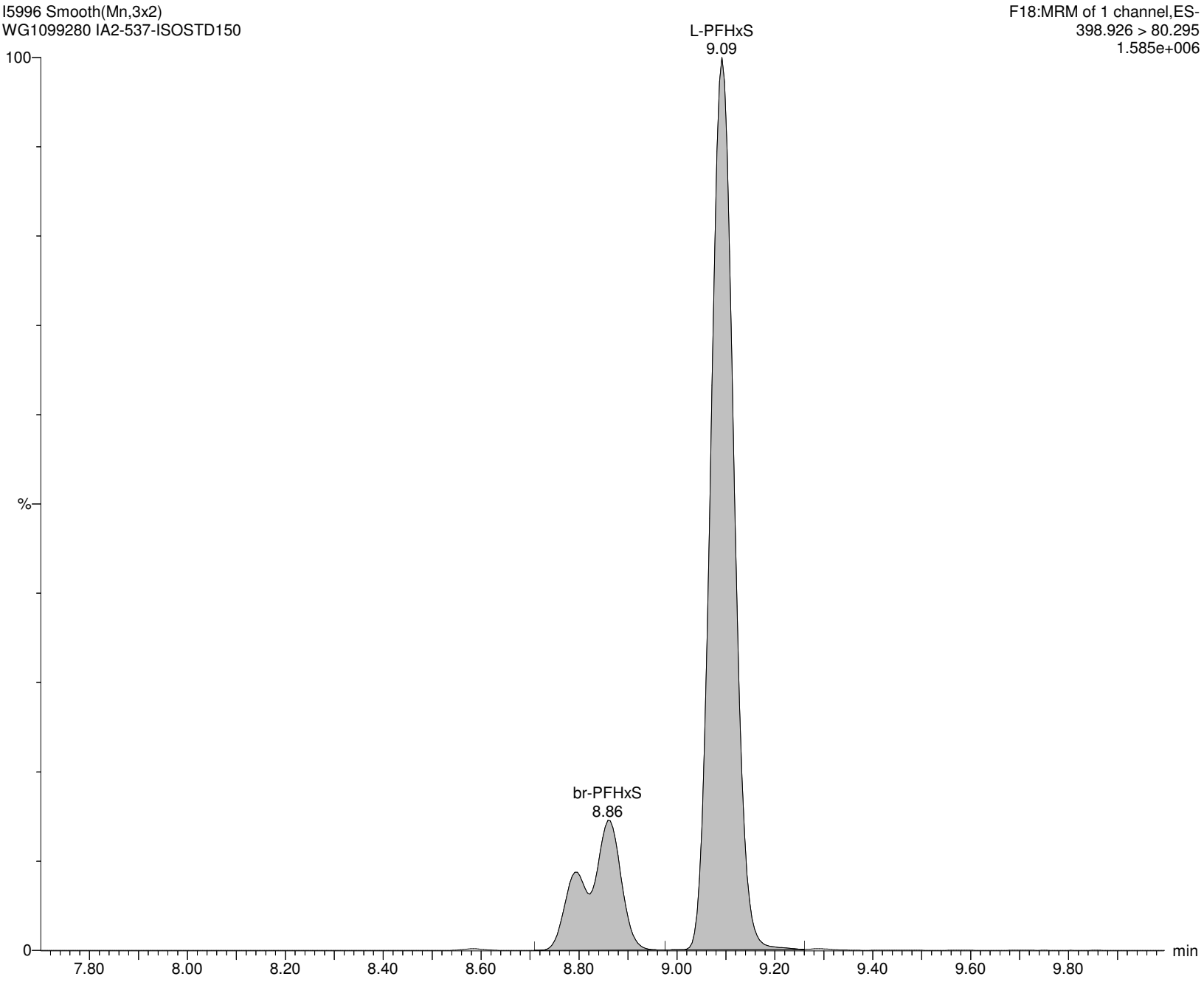

all concentration units in (ng/mL)

Alpha Analytical Inc.
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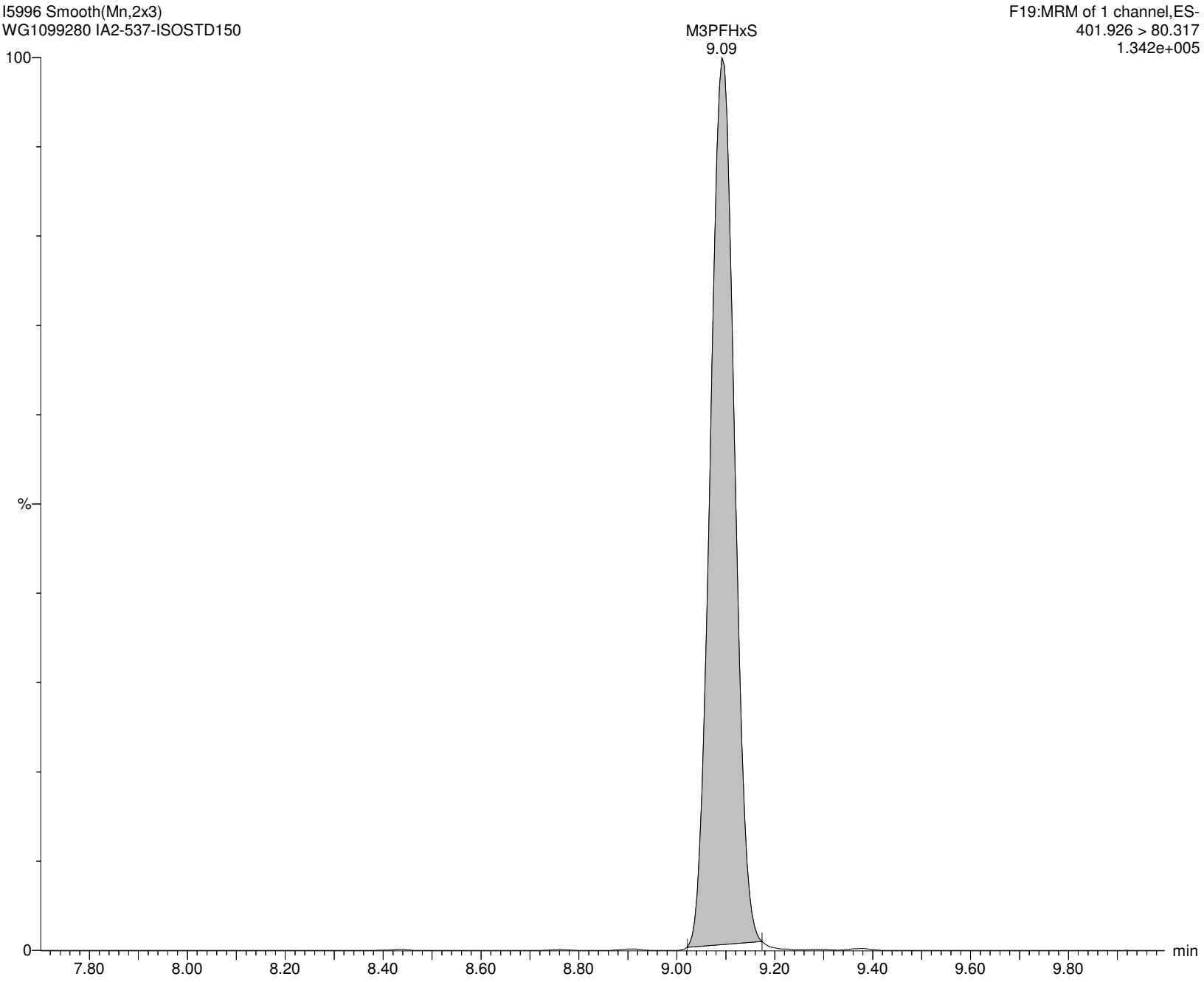

all concentration units in (ng/mL)

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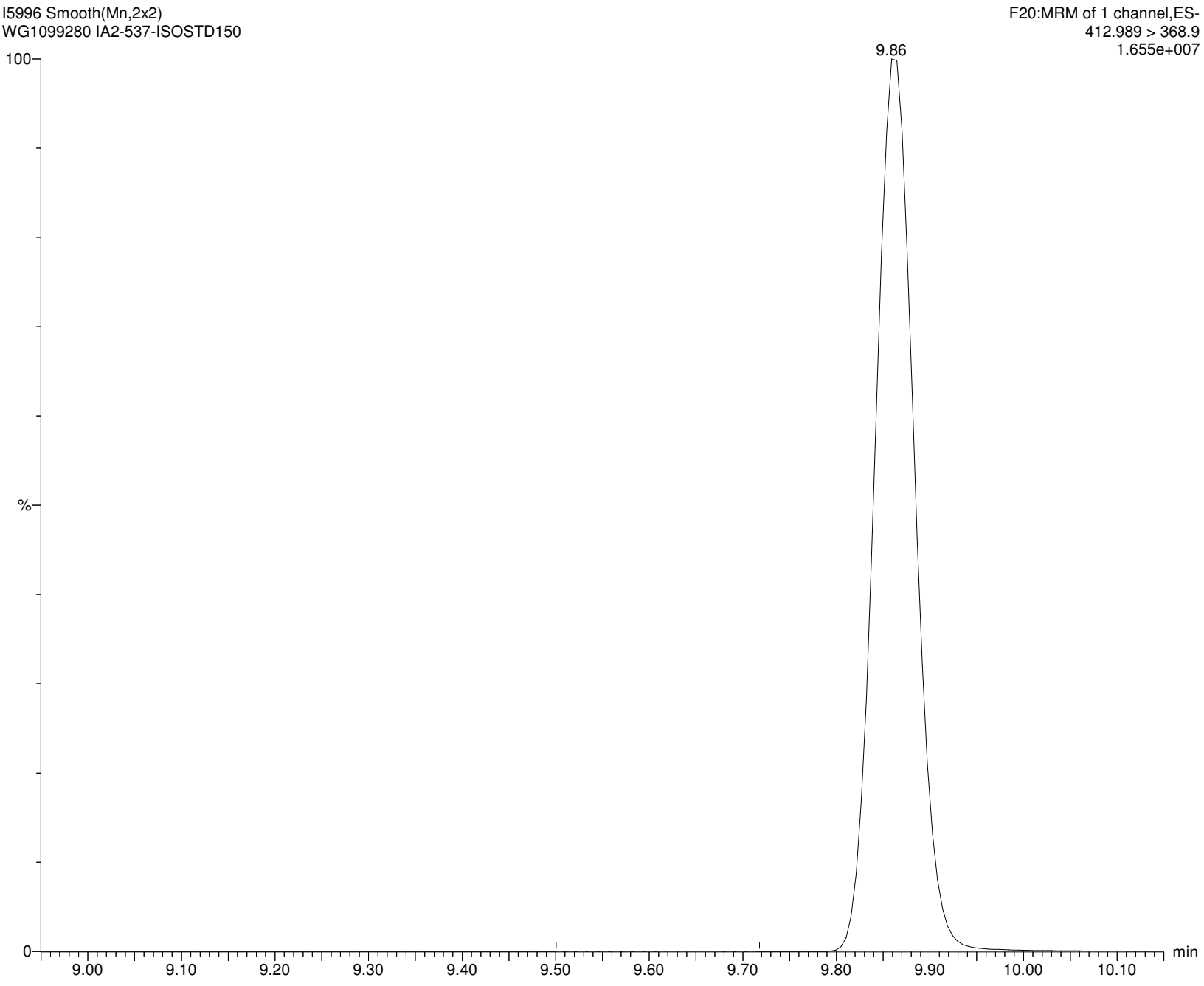

all concentration units in (ng/mL)

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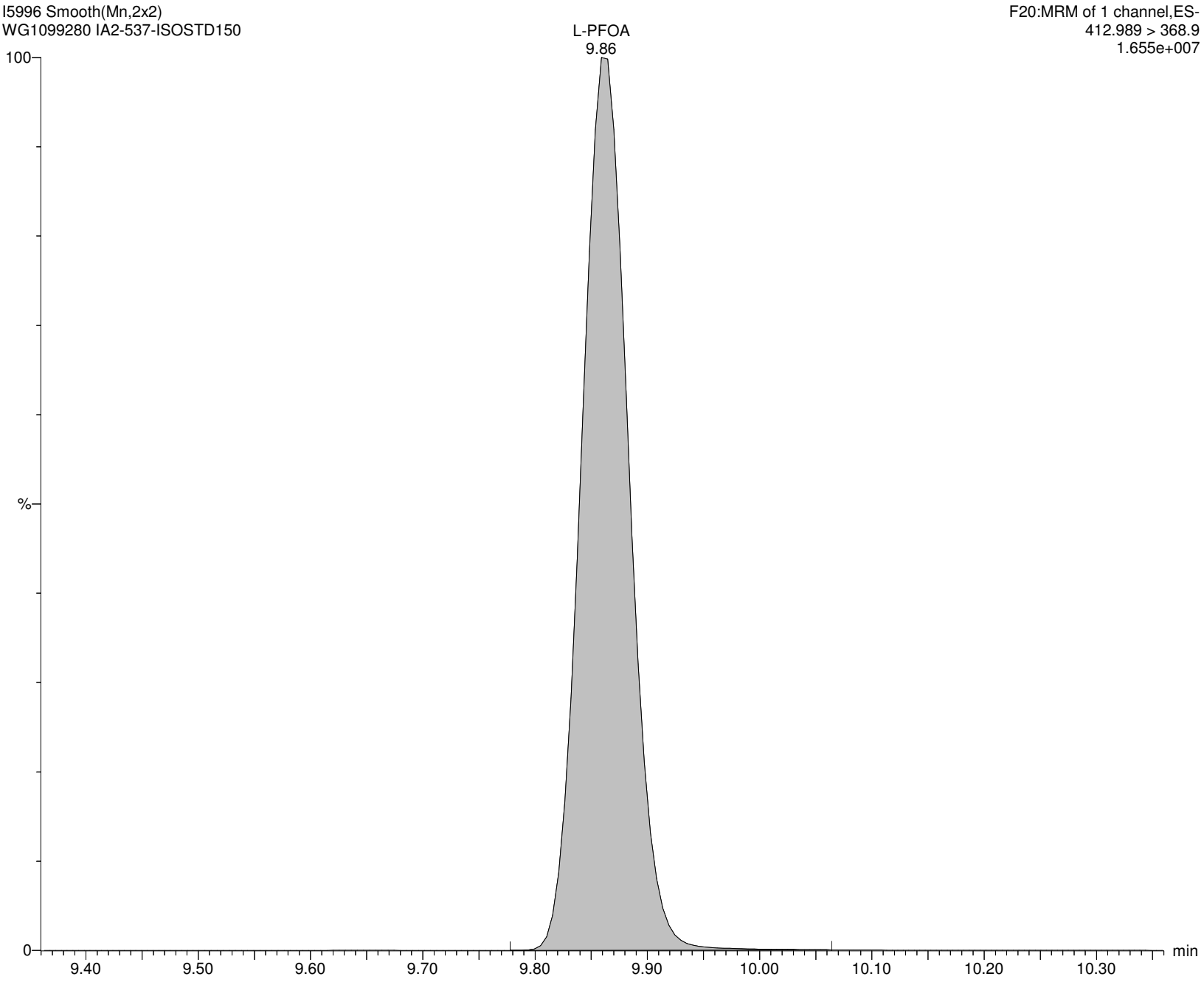

all concentration units in (ng/mL)

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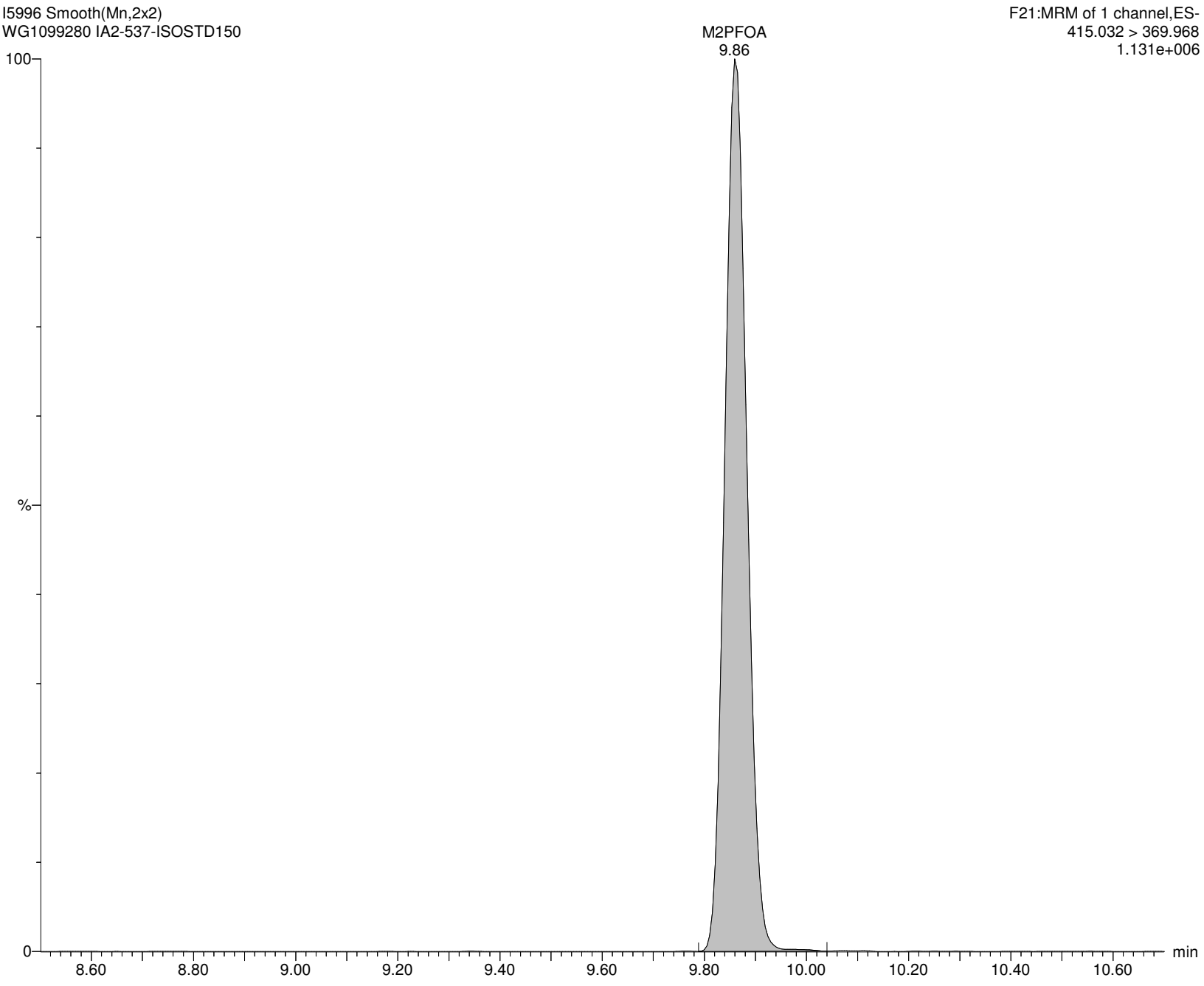

all concentration units in (ng/mL)

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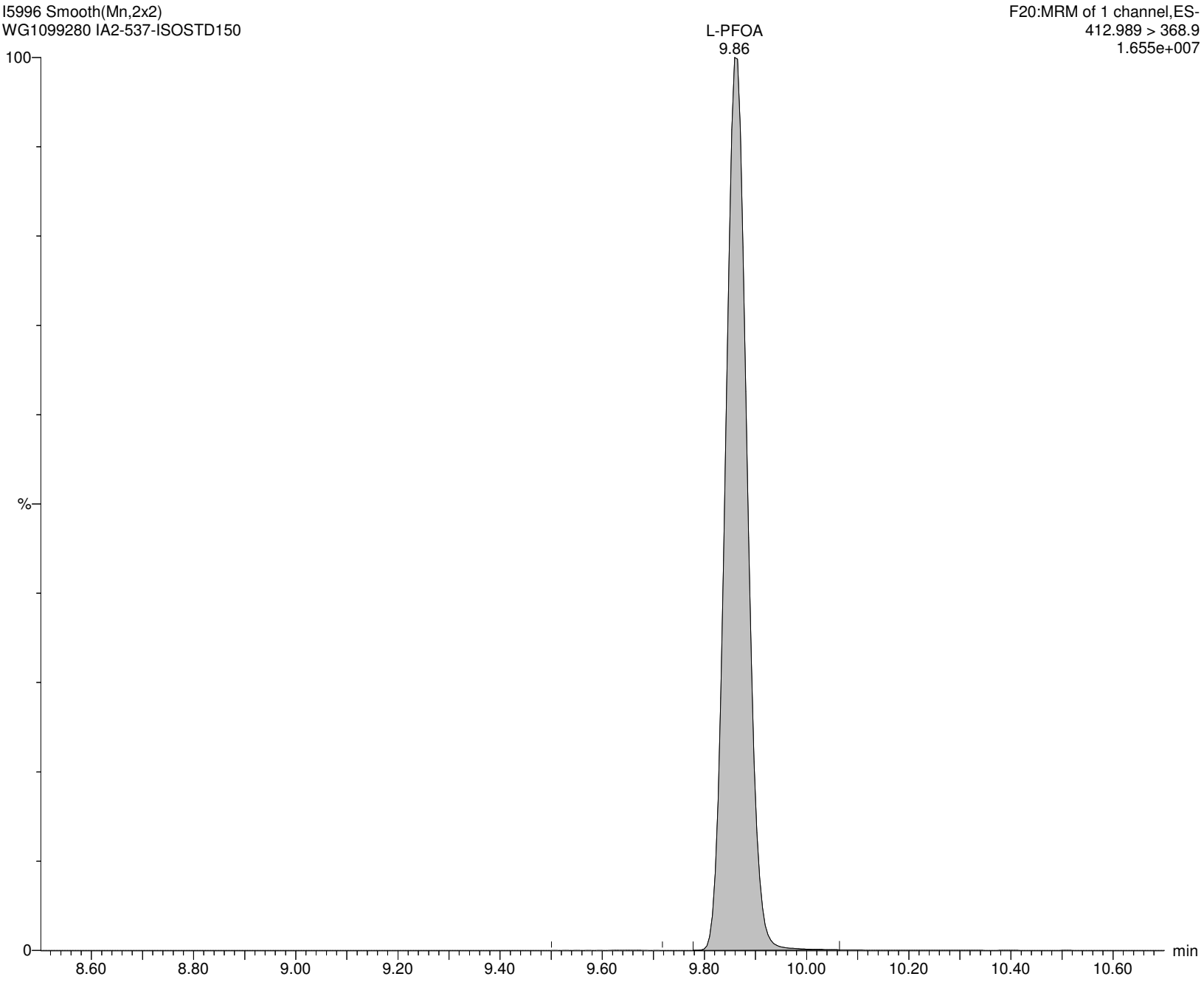

all concentration units in (ng/mL)

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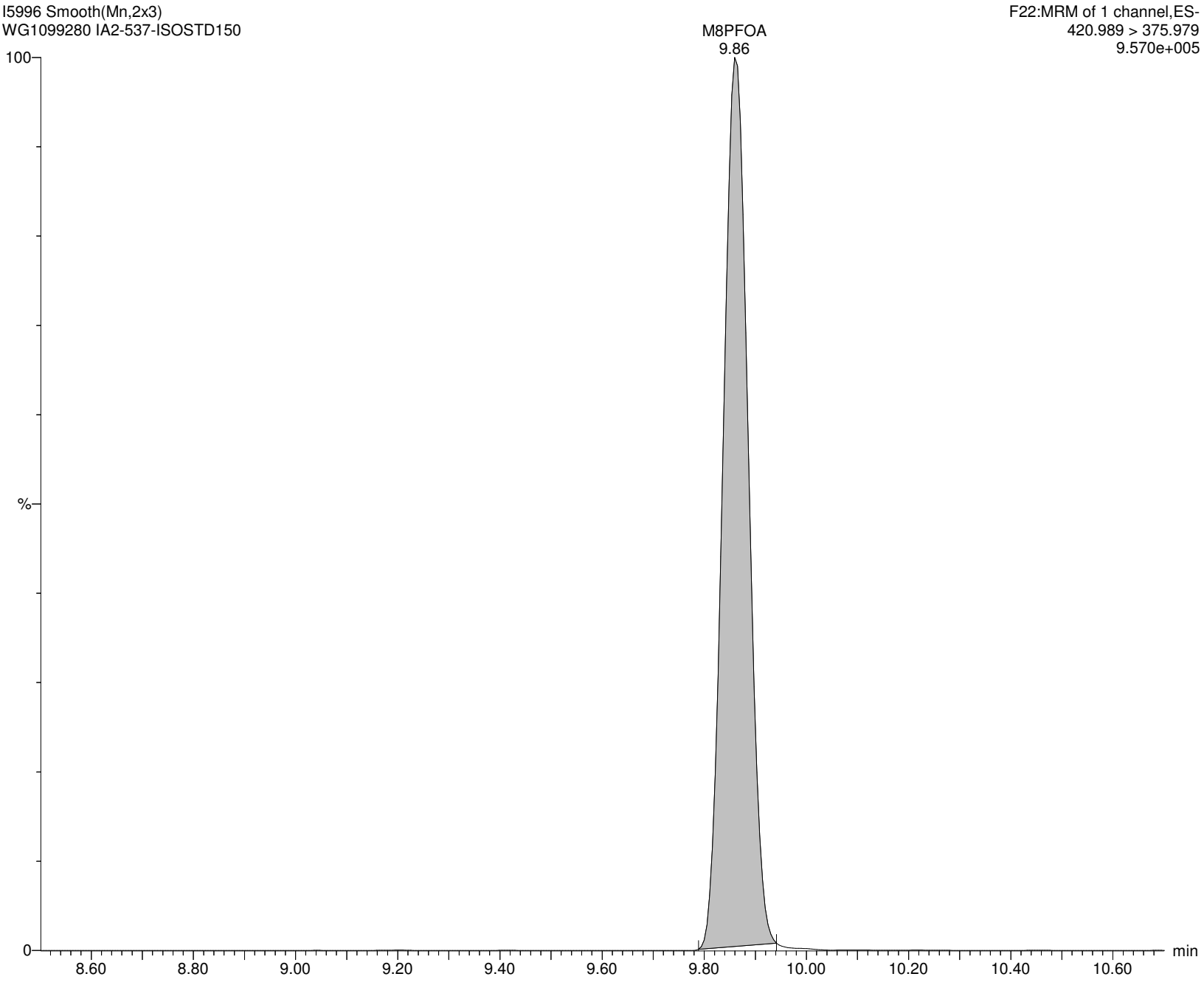

all concentration units in (ng/mL)

Alpha Analytical Inc.
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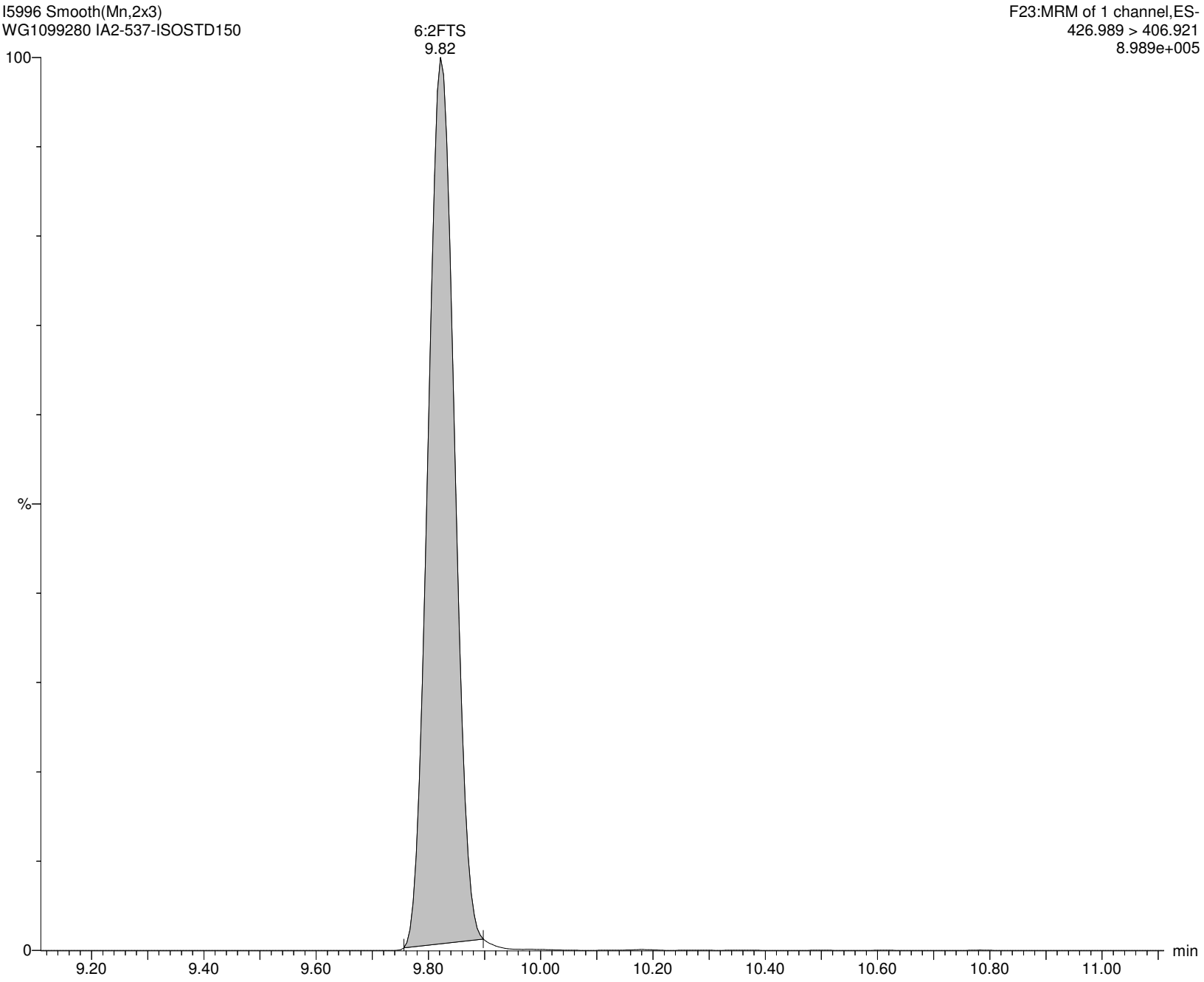

all concentration units in (ng/mL)

Alpha Analytical Inc.
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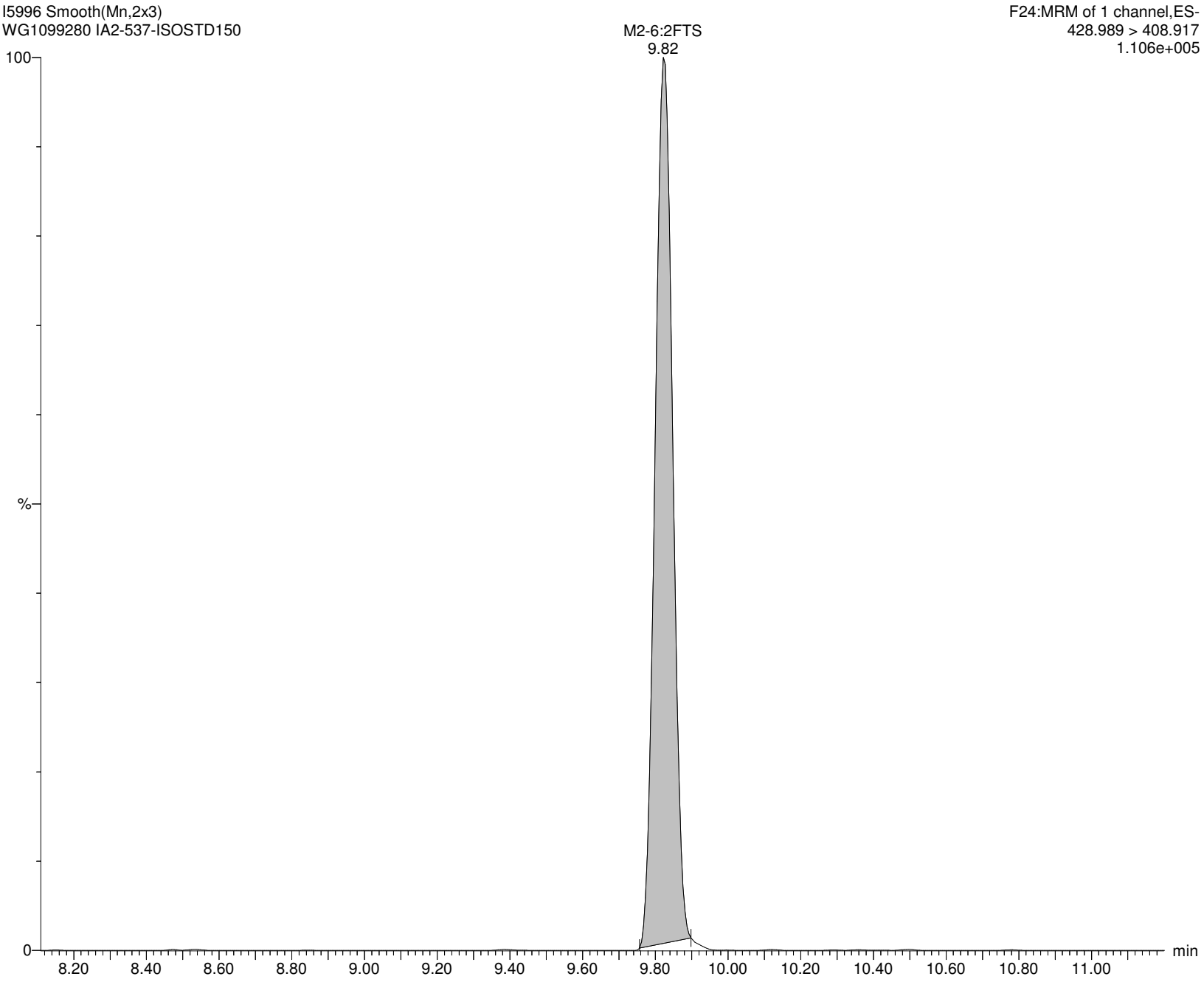

all concentration units in (ng/mL)

Alpha Analytical Inc.
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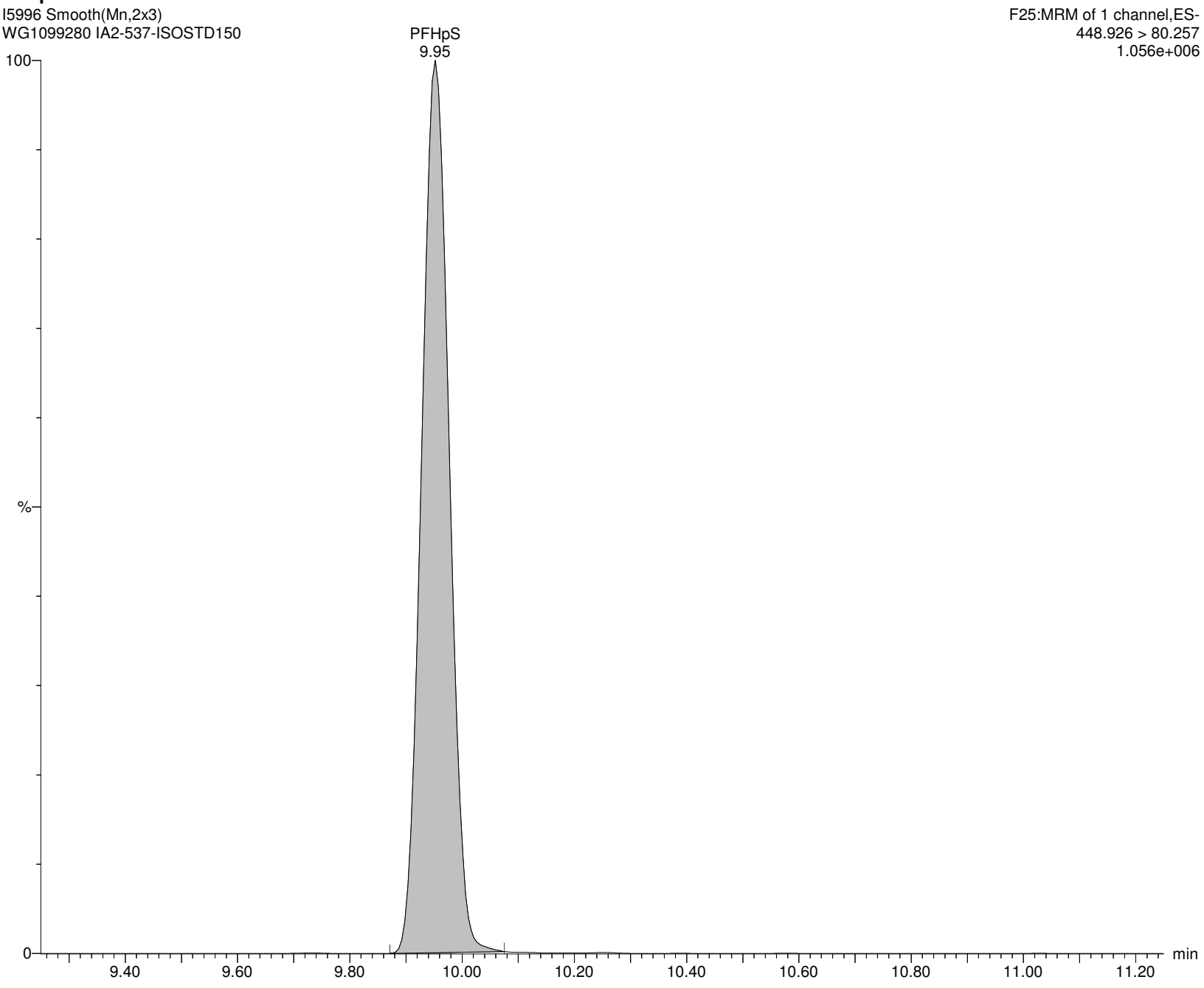

all concentration units in (ng/mL)

Alpha Analytical Inc.
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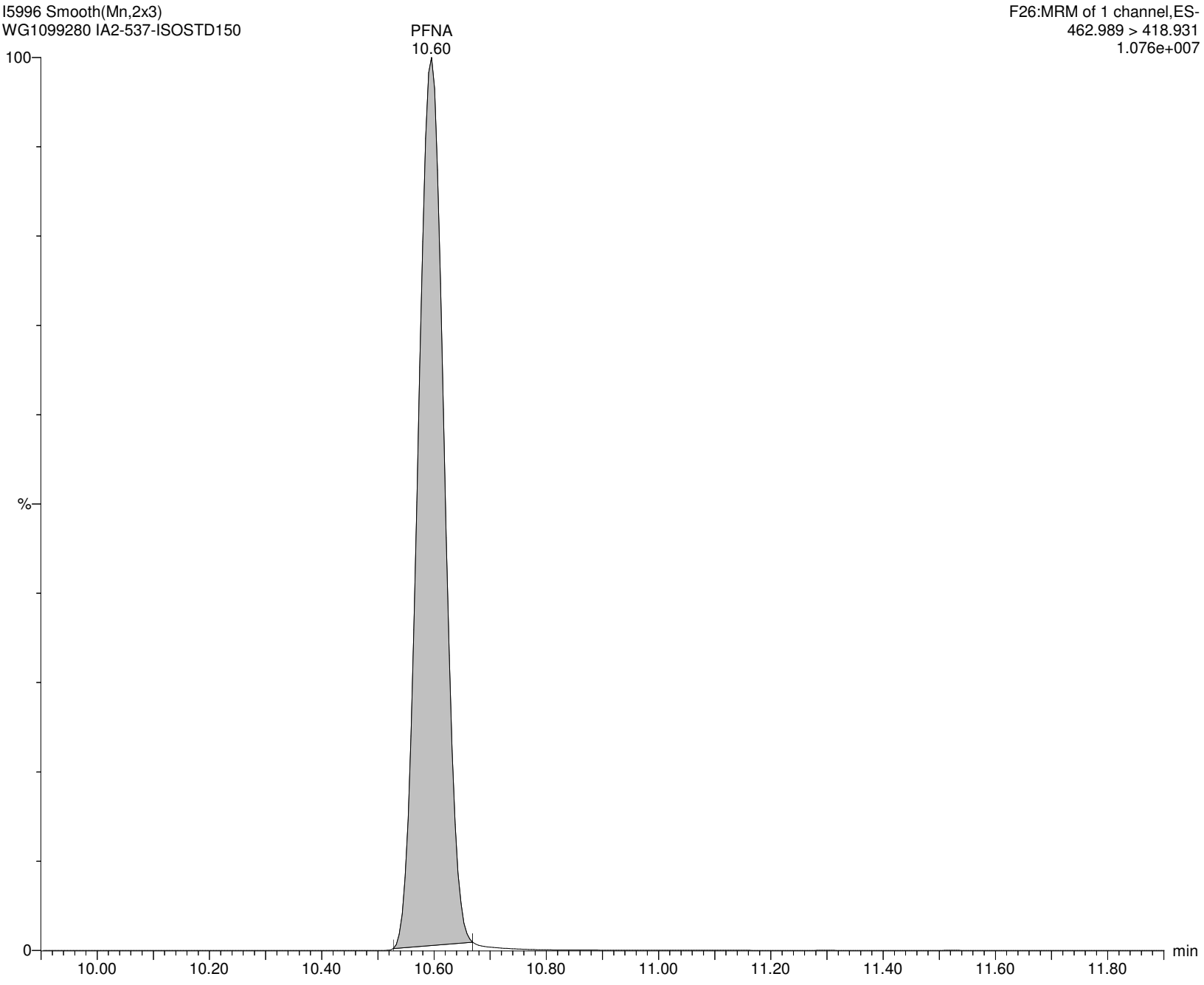

all concentration units in (ng/mL)

Alpha Analytical Inc.
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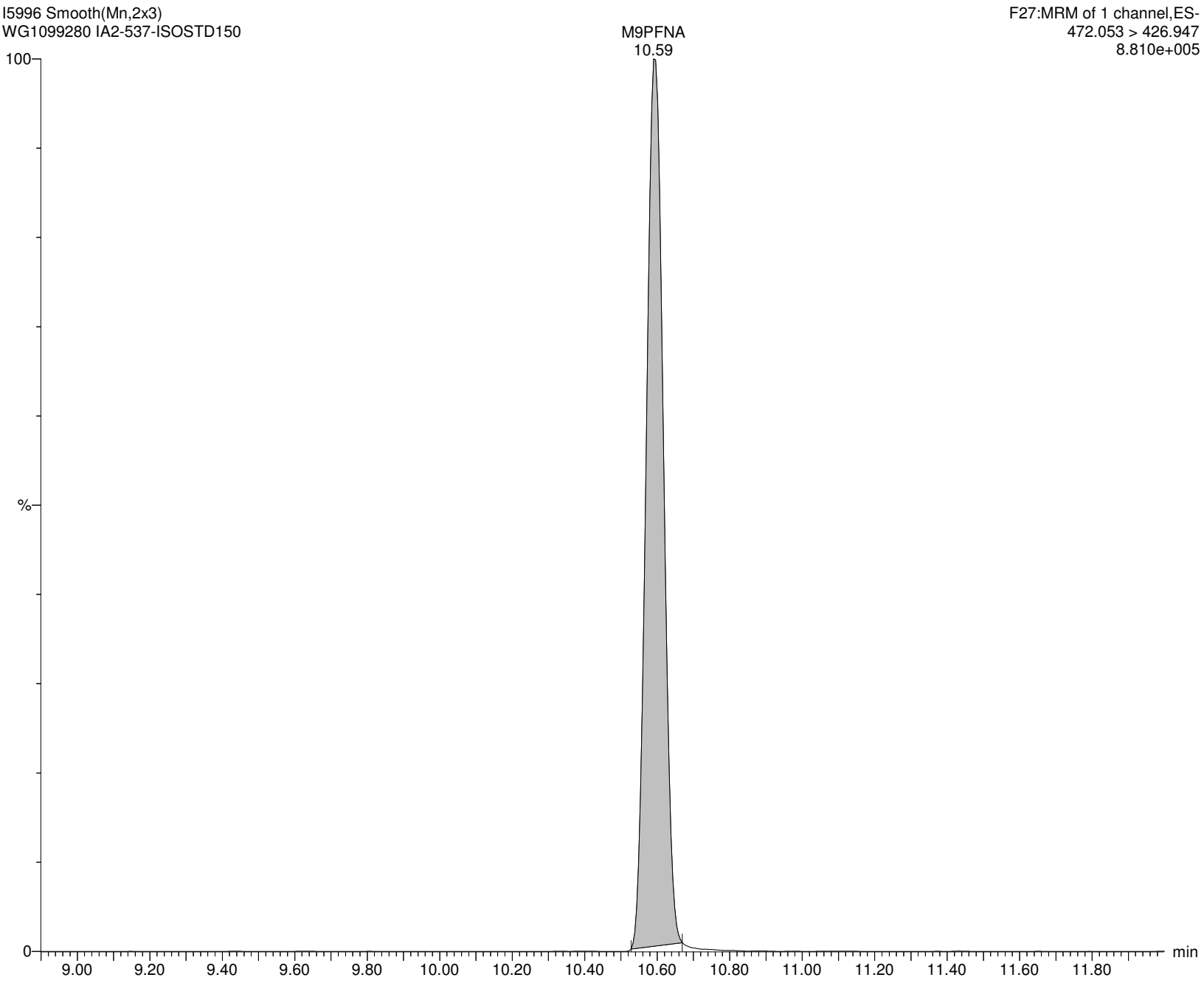

all concentration units in (ng/mL)

Alpha Analytical Inc.
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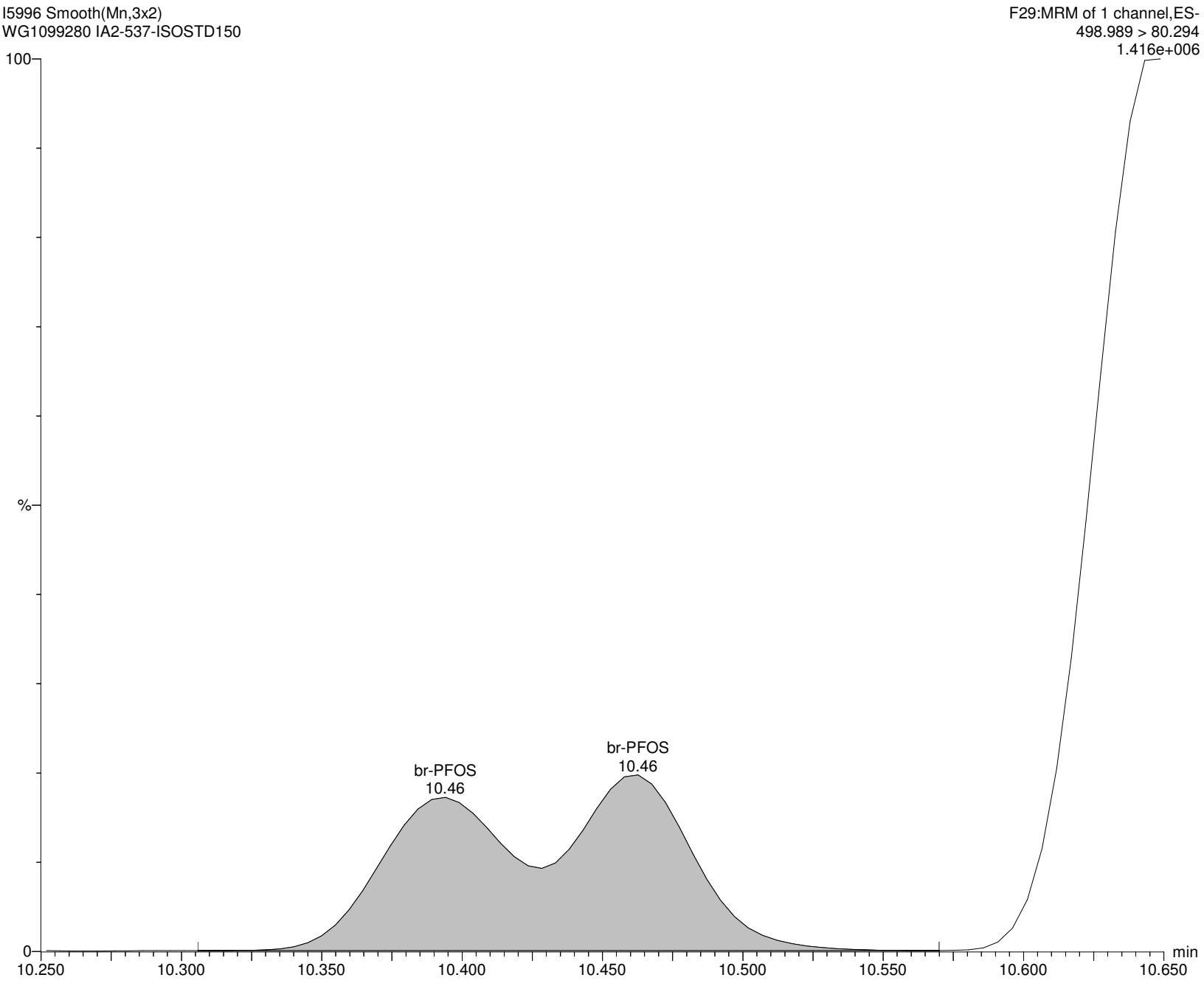

all concentration units in (ng/mL)

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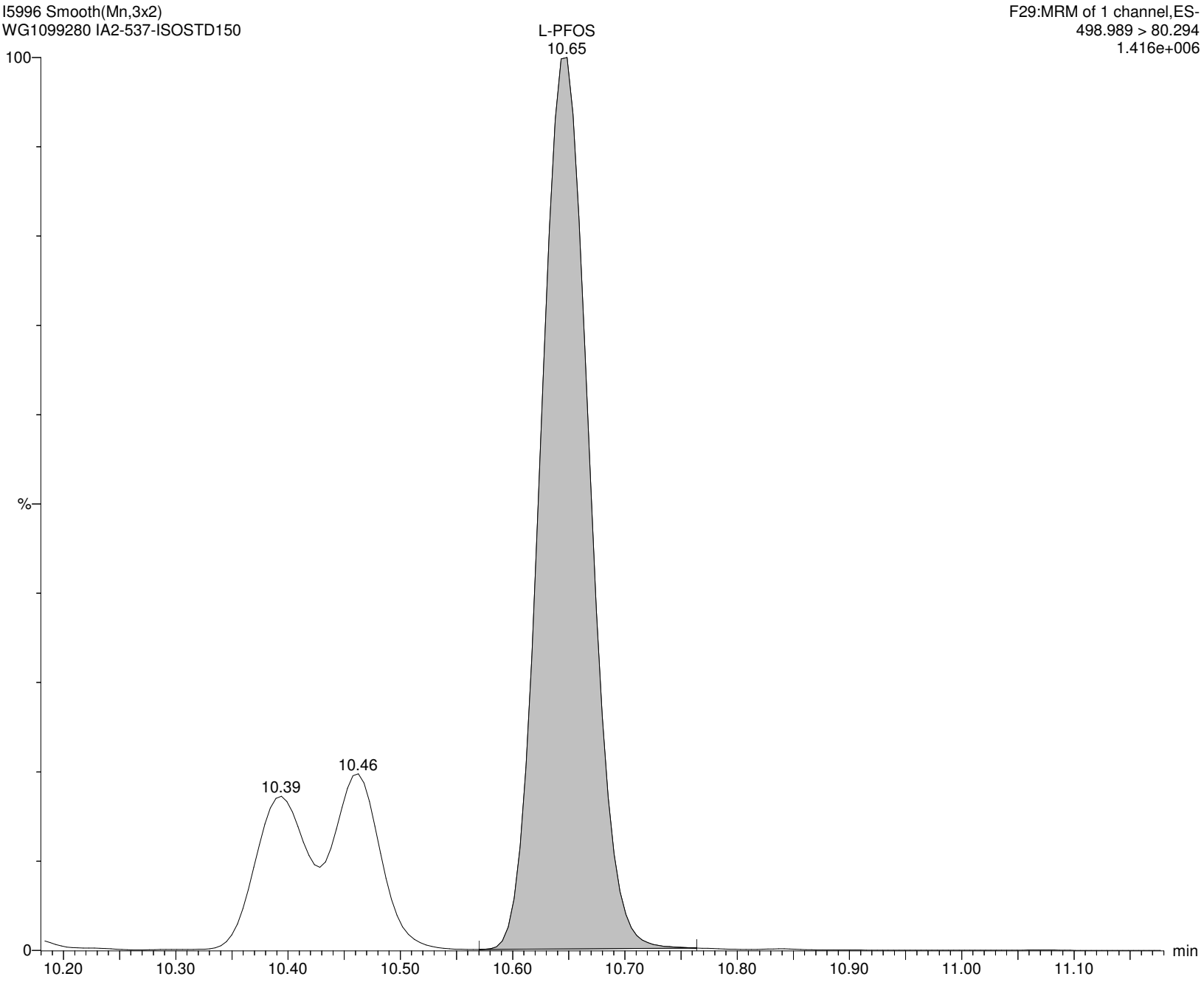

all concentration units in (ng/mL)

Alpha Analytical Inc.
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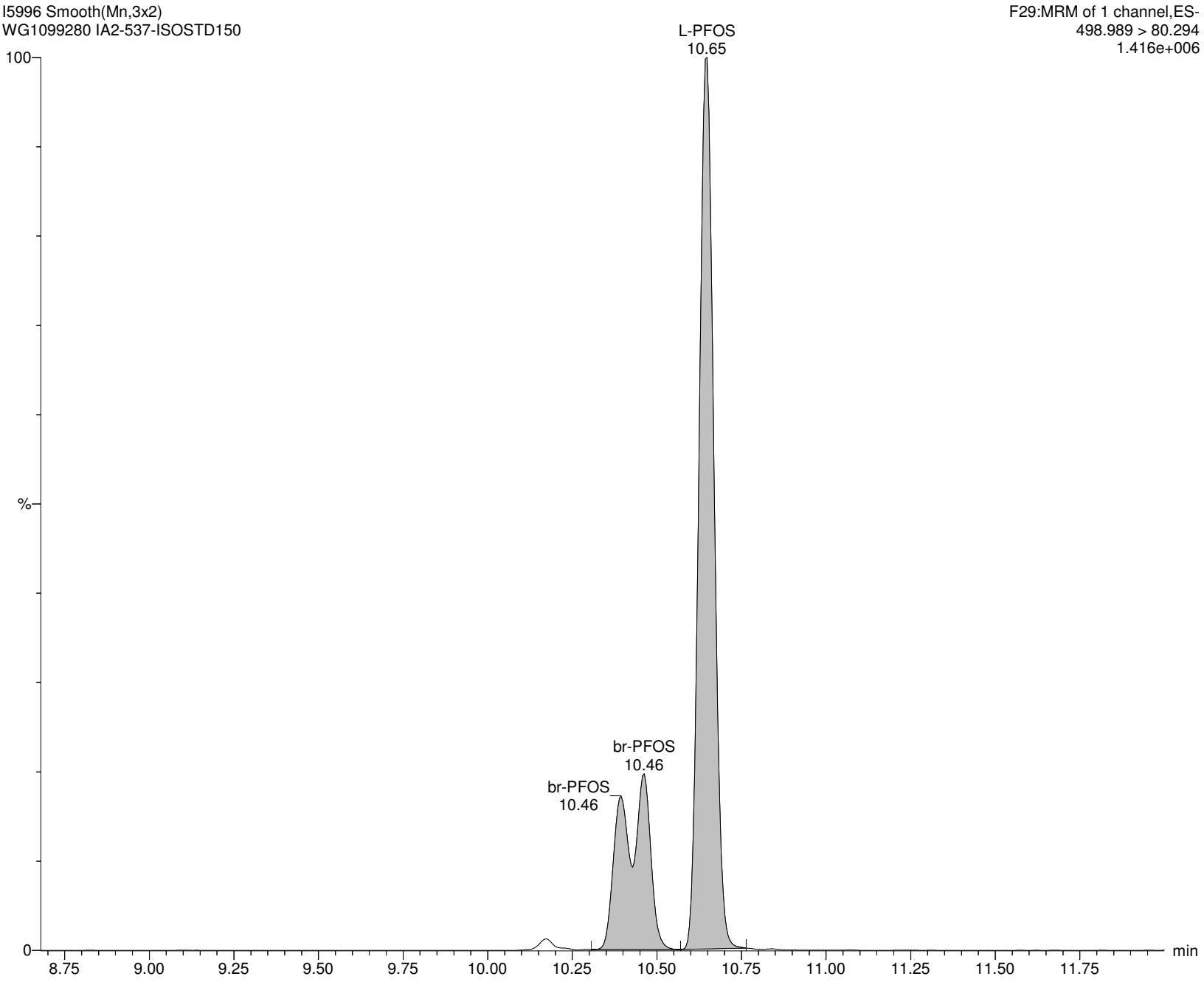

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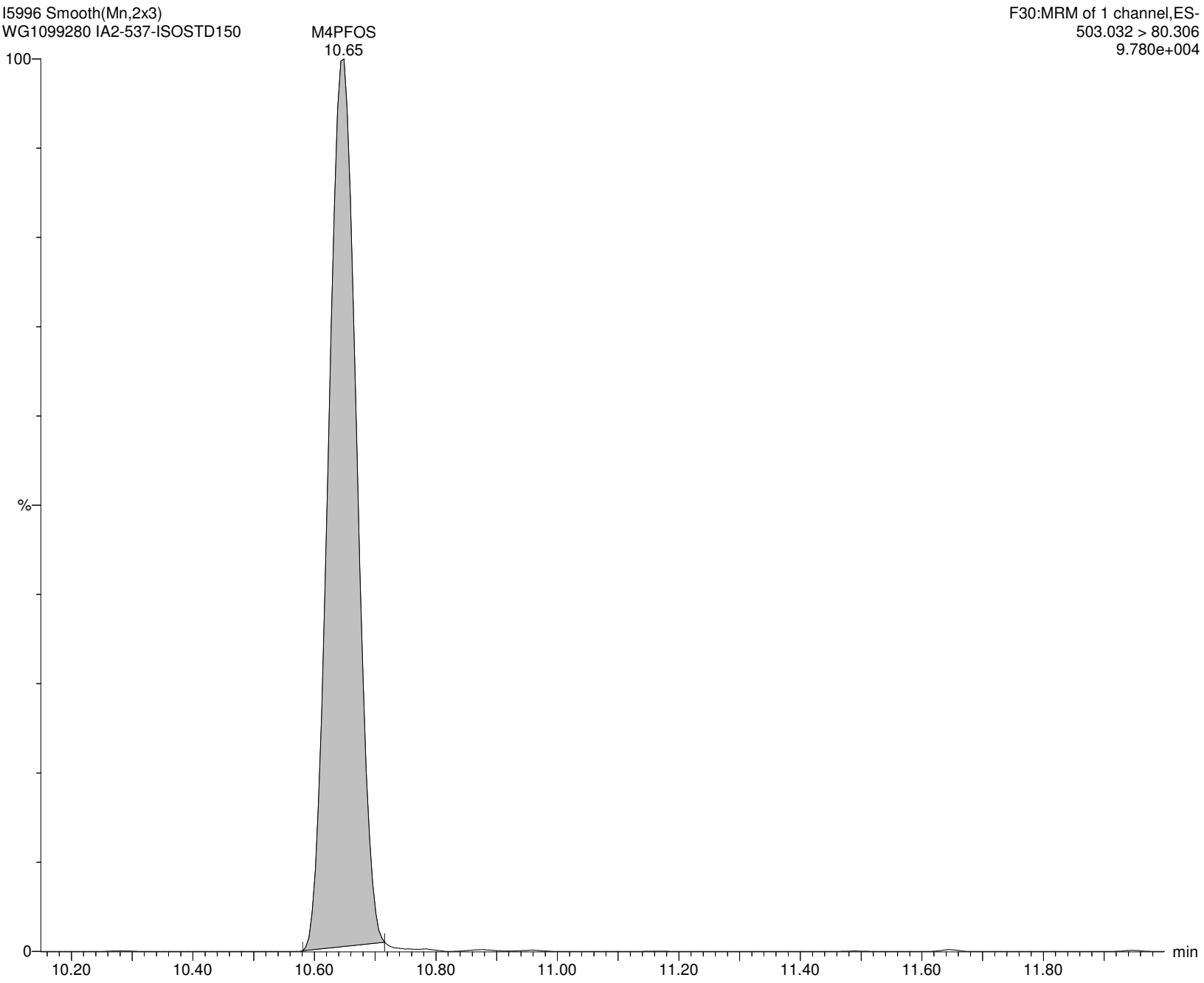

all concentration units in (ng/mL)

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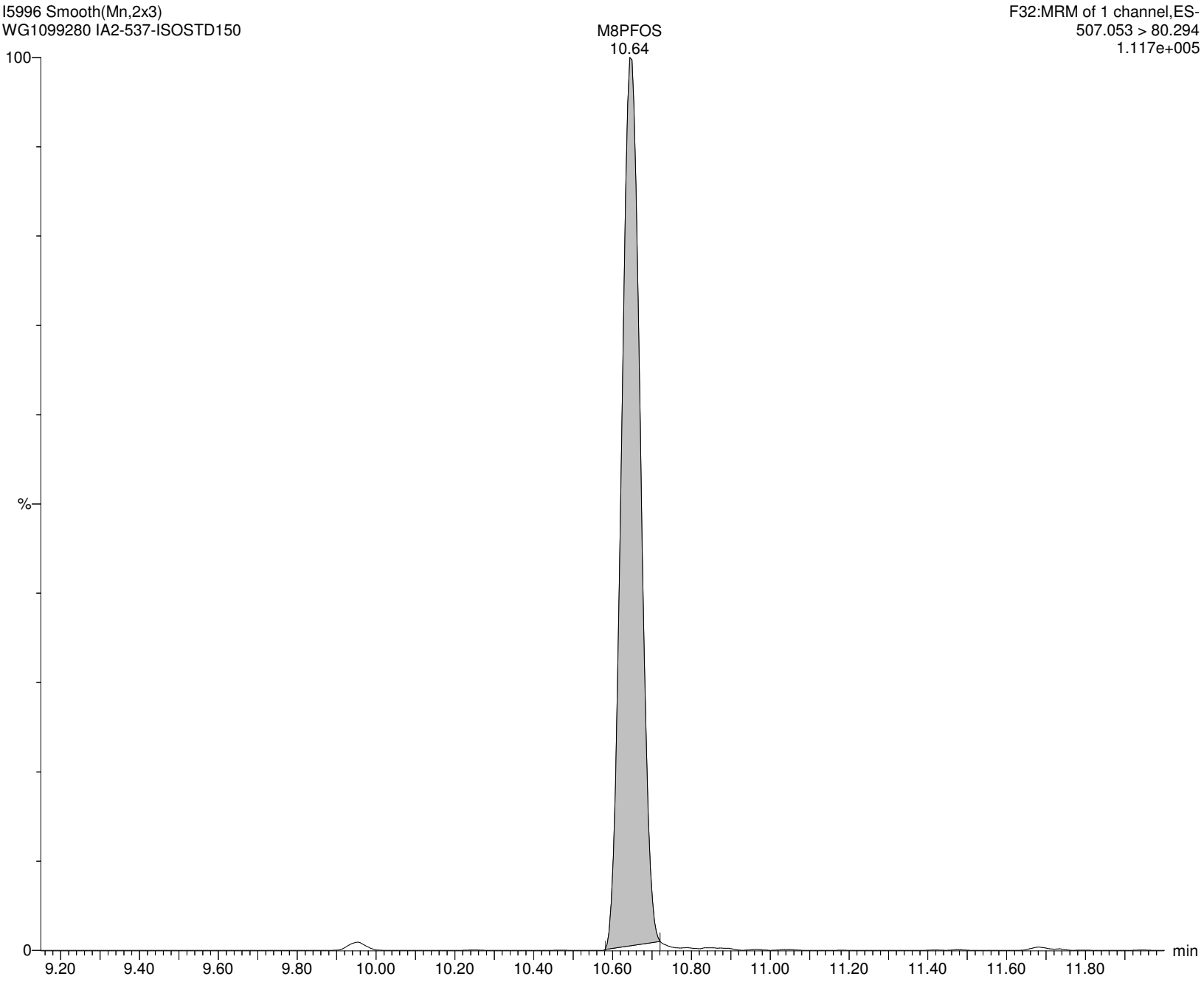

all concentration units in (ng/mL)

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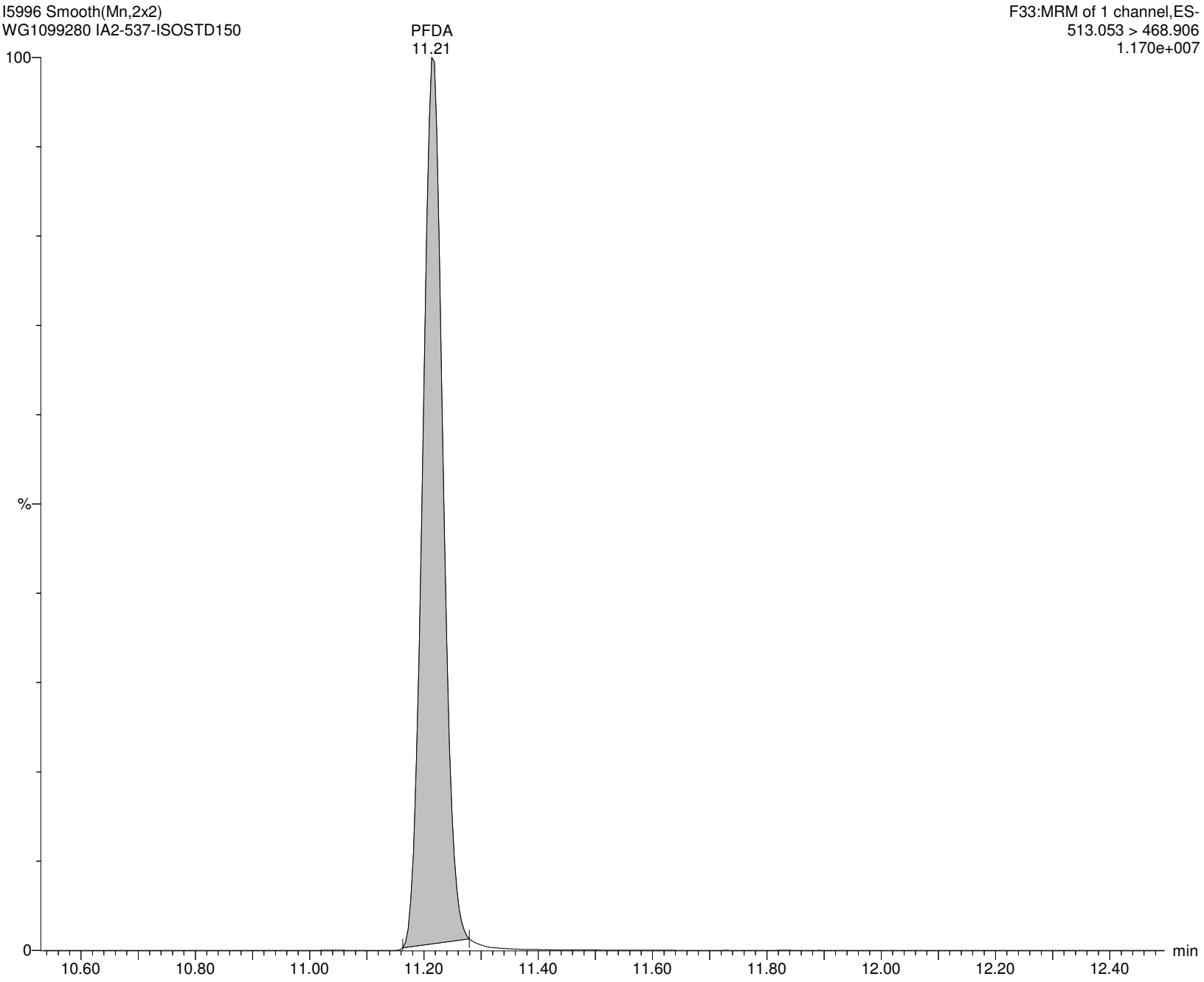

all concentration units in (ng/mL)

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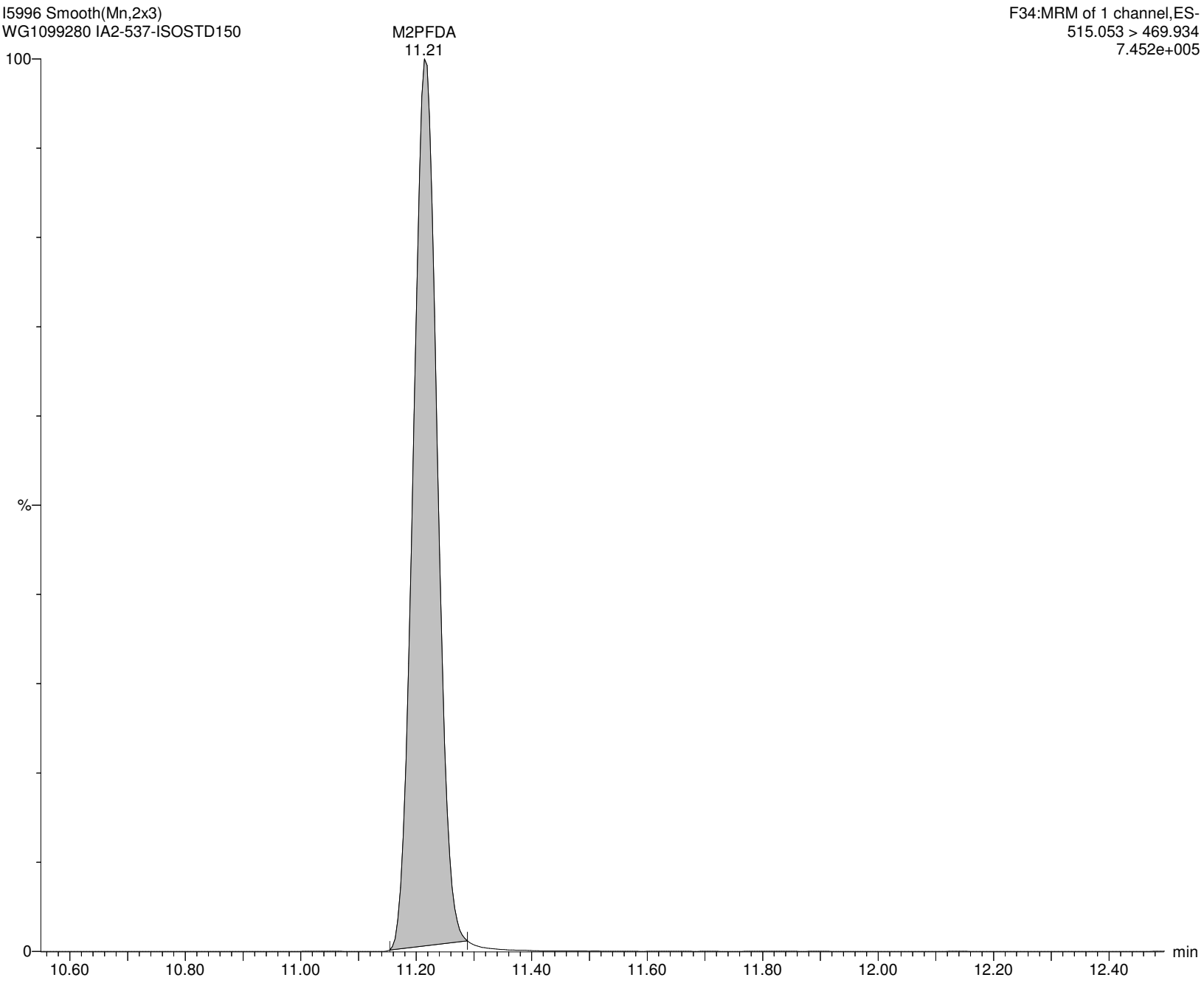
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:56 Eastern Daylight Time

Name: I5996
ID: IA2-537-ISOSTD150
Date: 21-Mar-2018
Time: 18:04:41
Description: WG1099280
User: LCMS01:PB
Vial: 2:B,1
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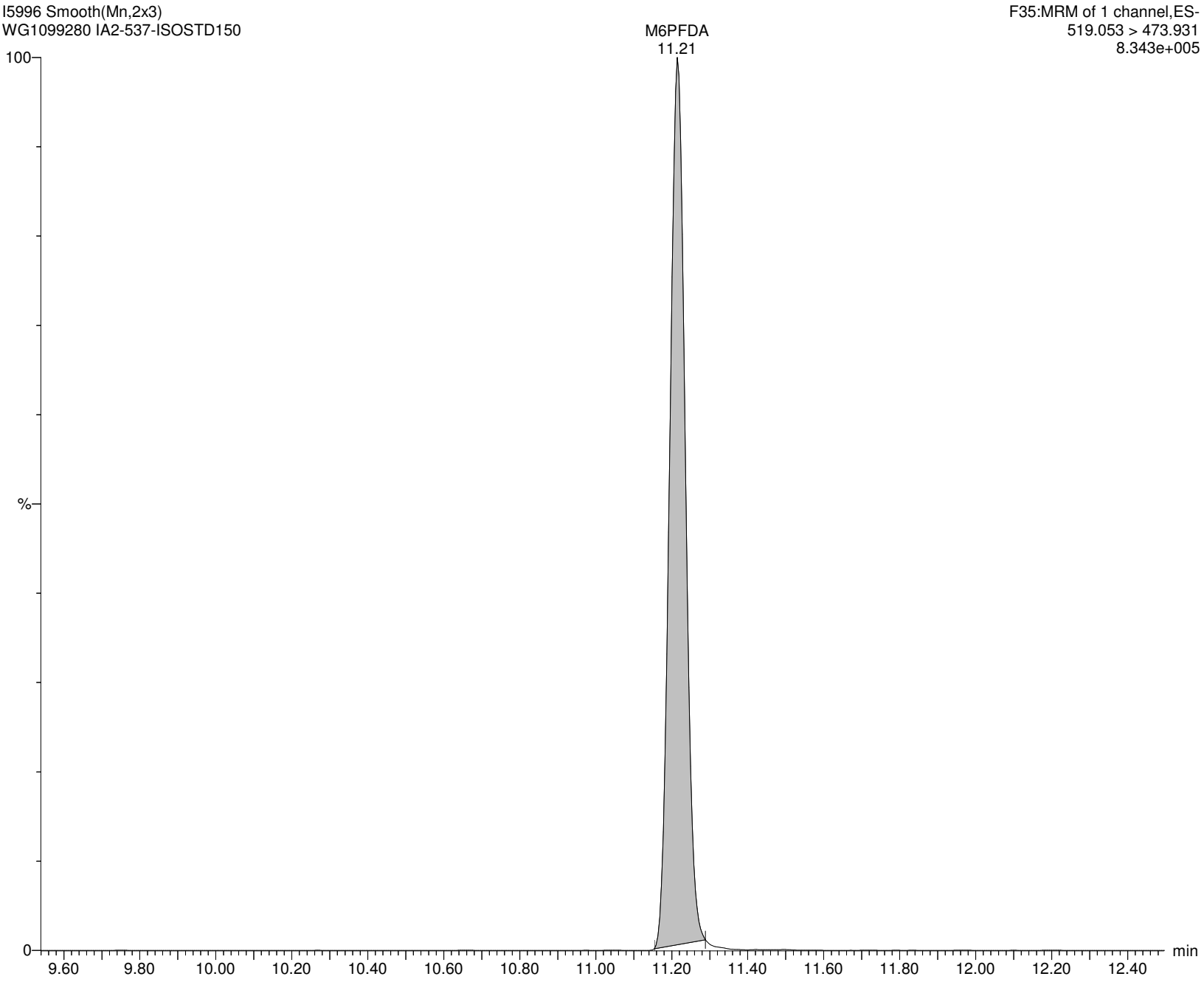

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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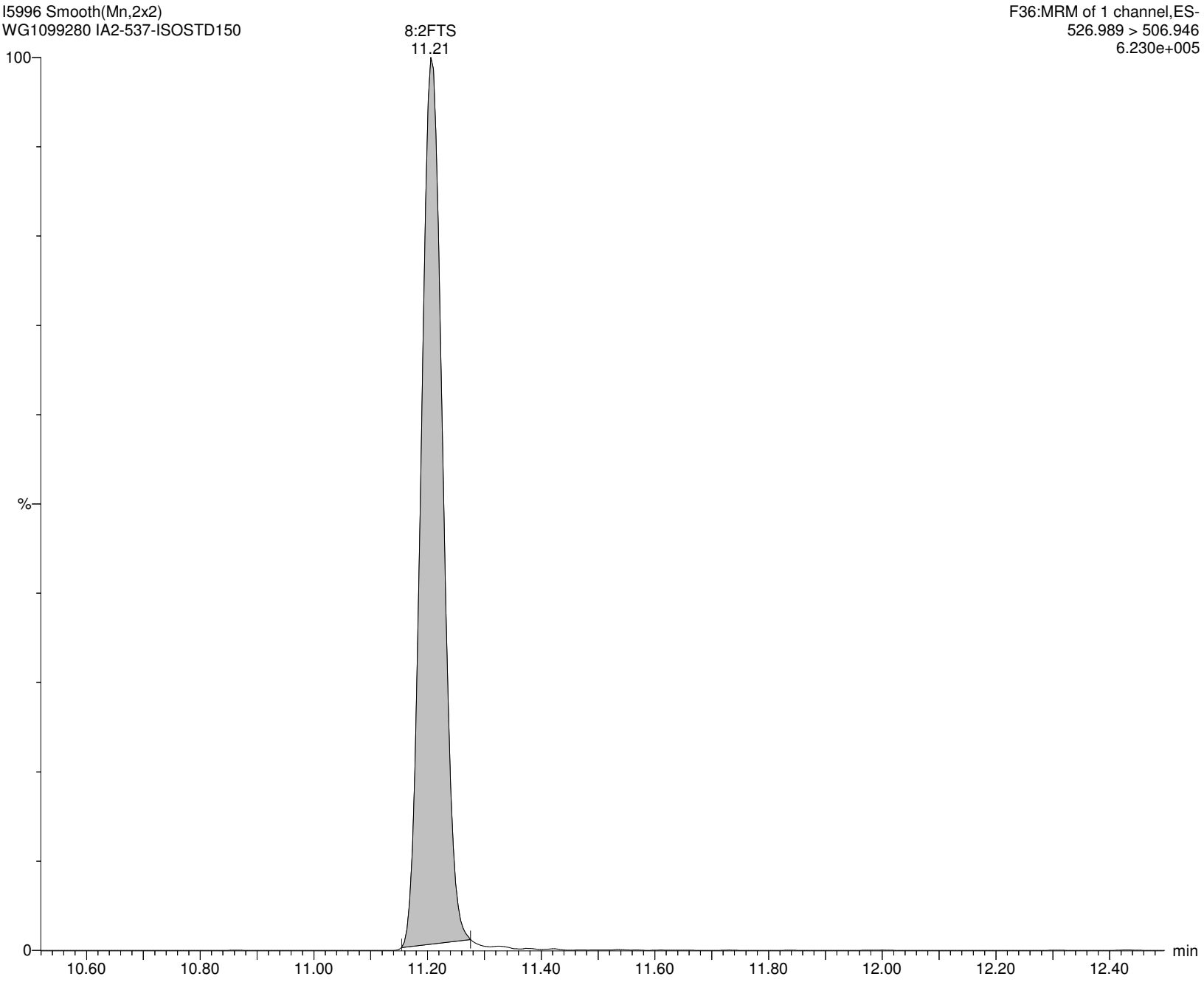
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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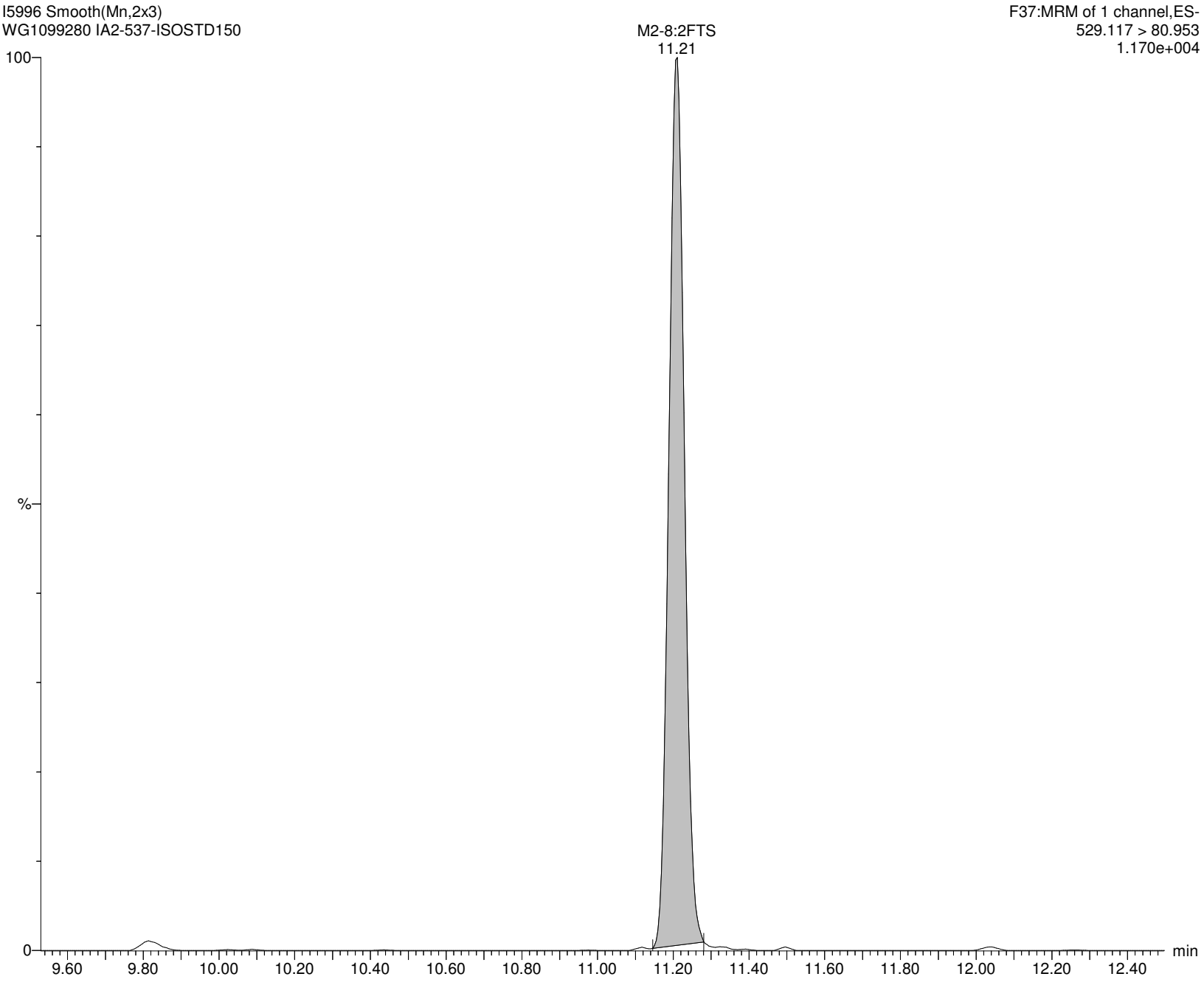
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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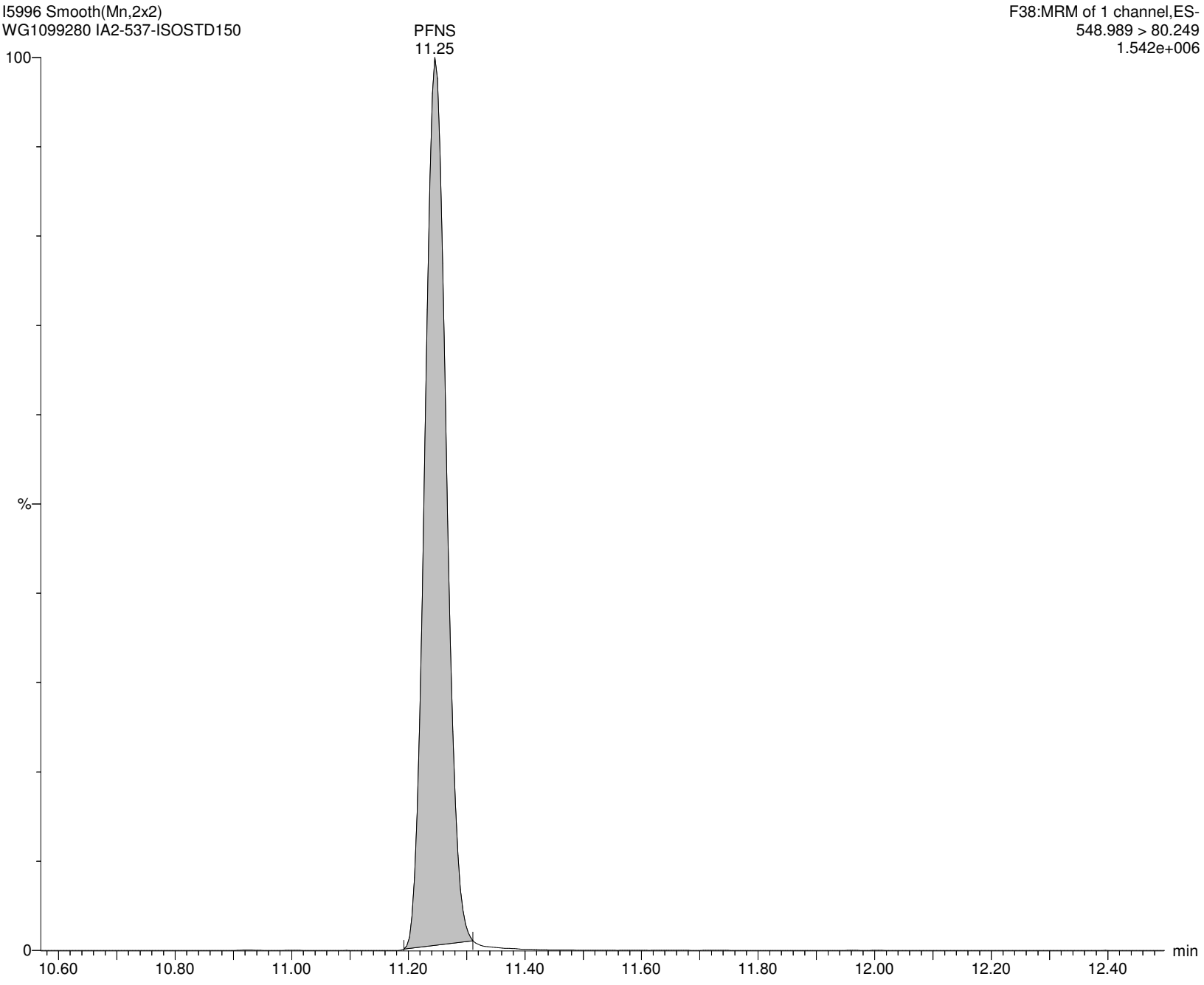

all concentration units in (ng/mL)

Alpha Analytical Inc.
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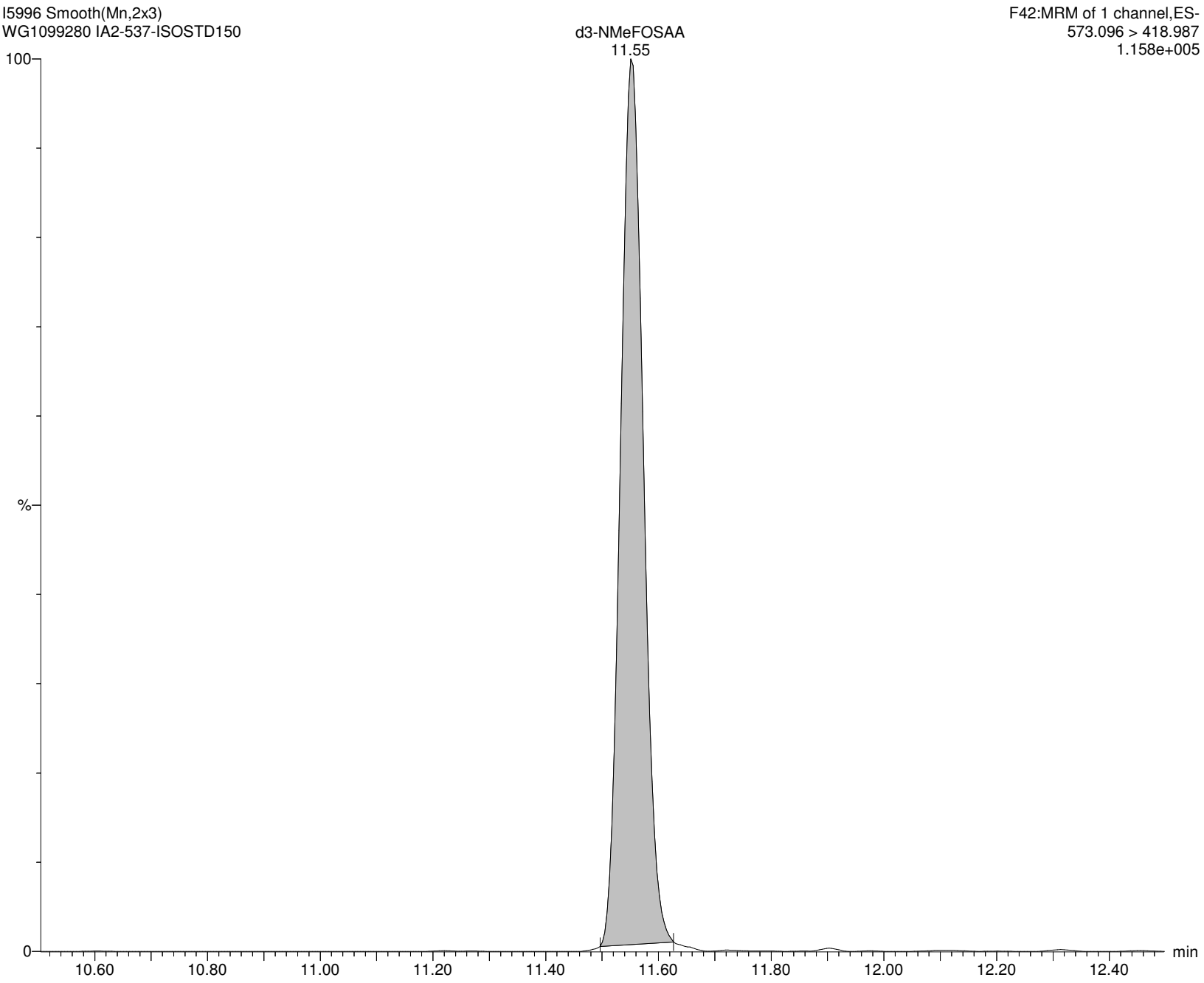

all concentration units in (ng/mL)

Alpha Analytical Inc.
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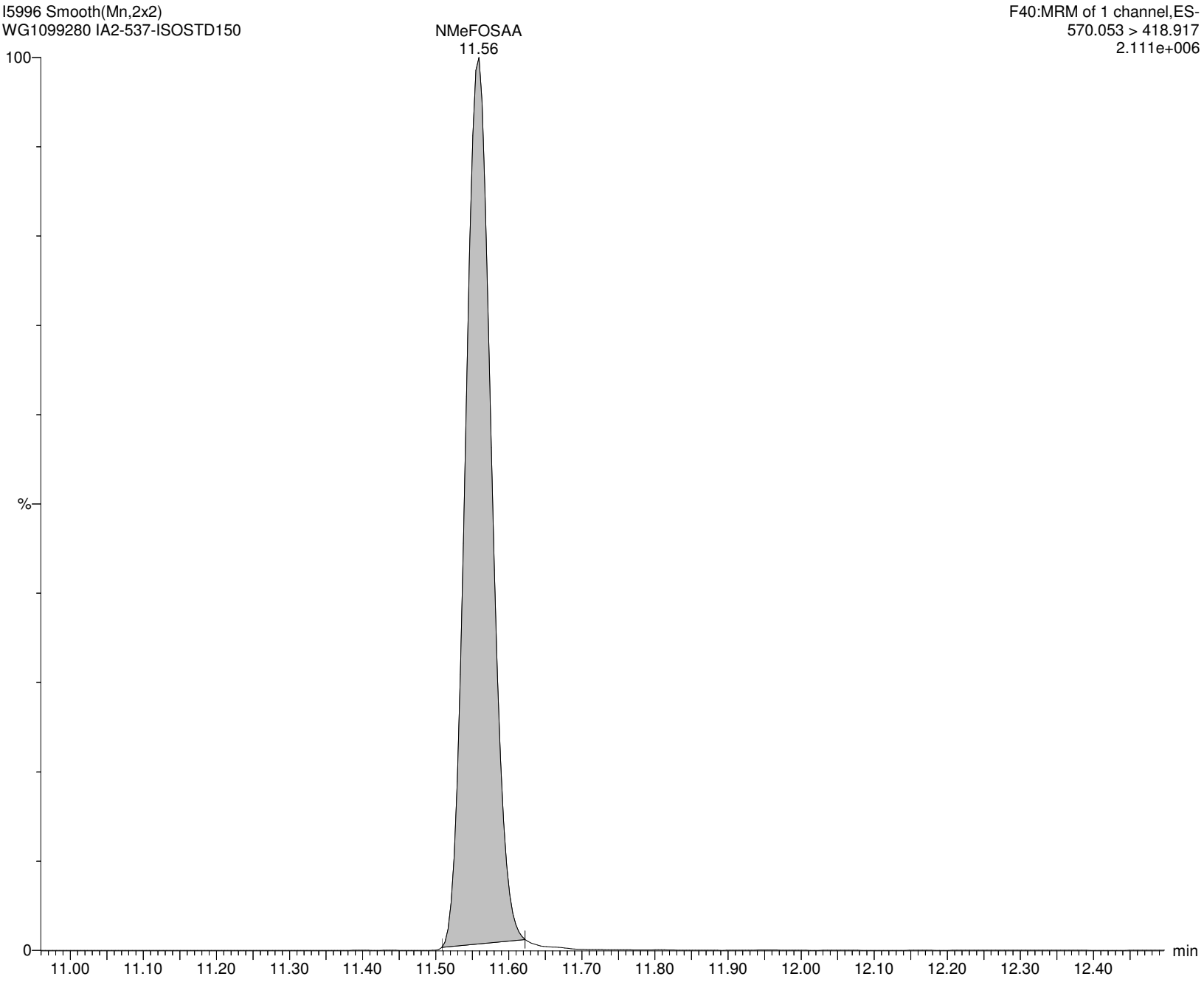

all concentration units in (ng/mL)

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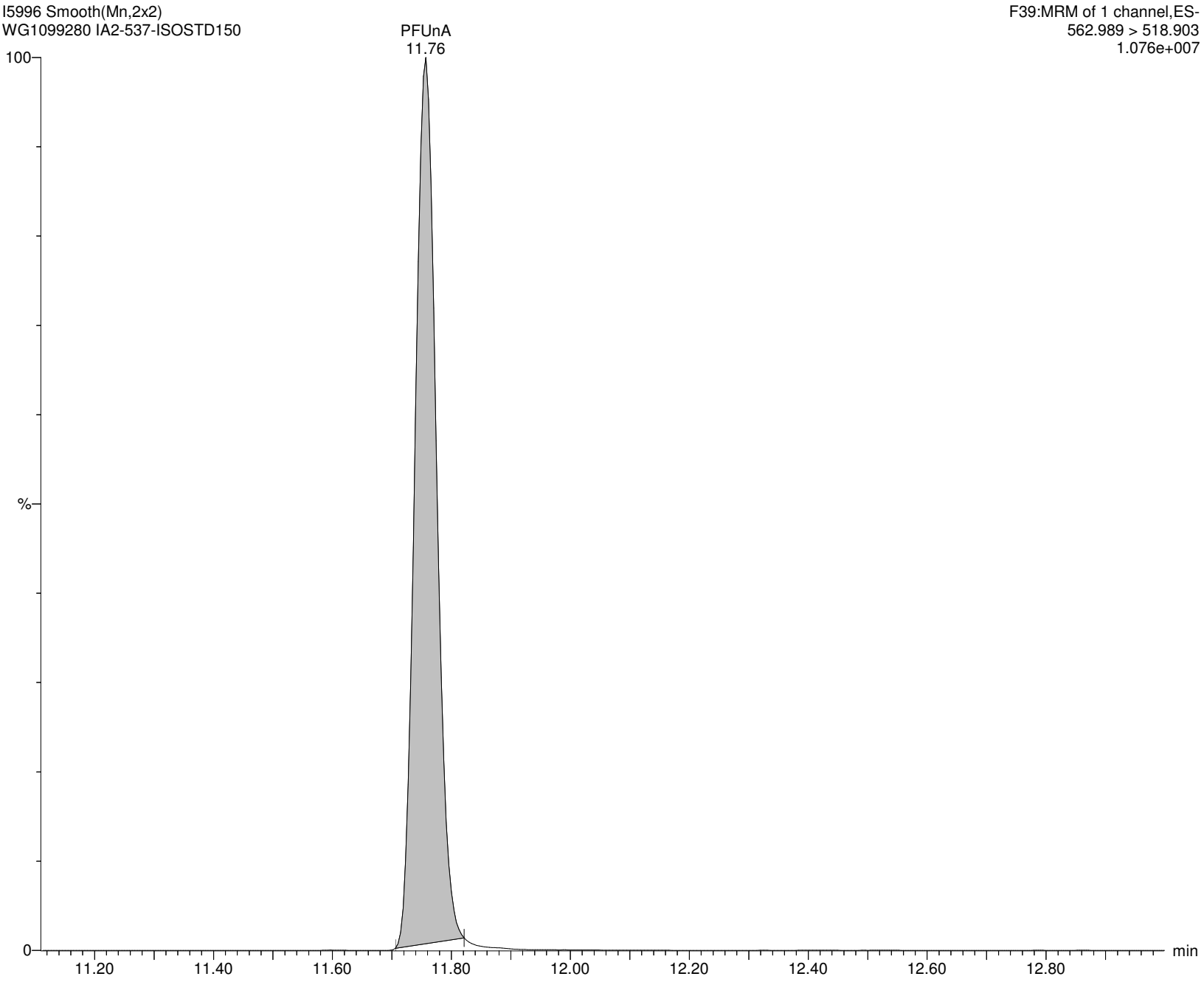

all concentration units in (ng/mL)

Alpha Analytical Inc.
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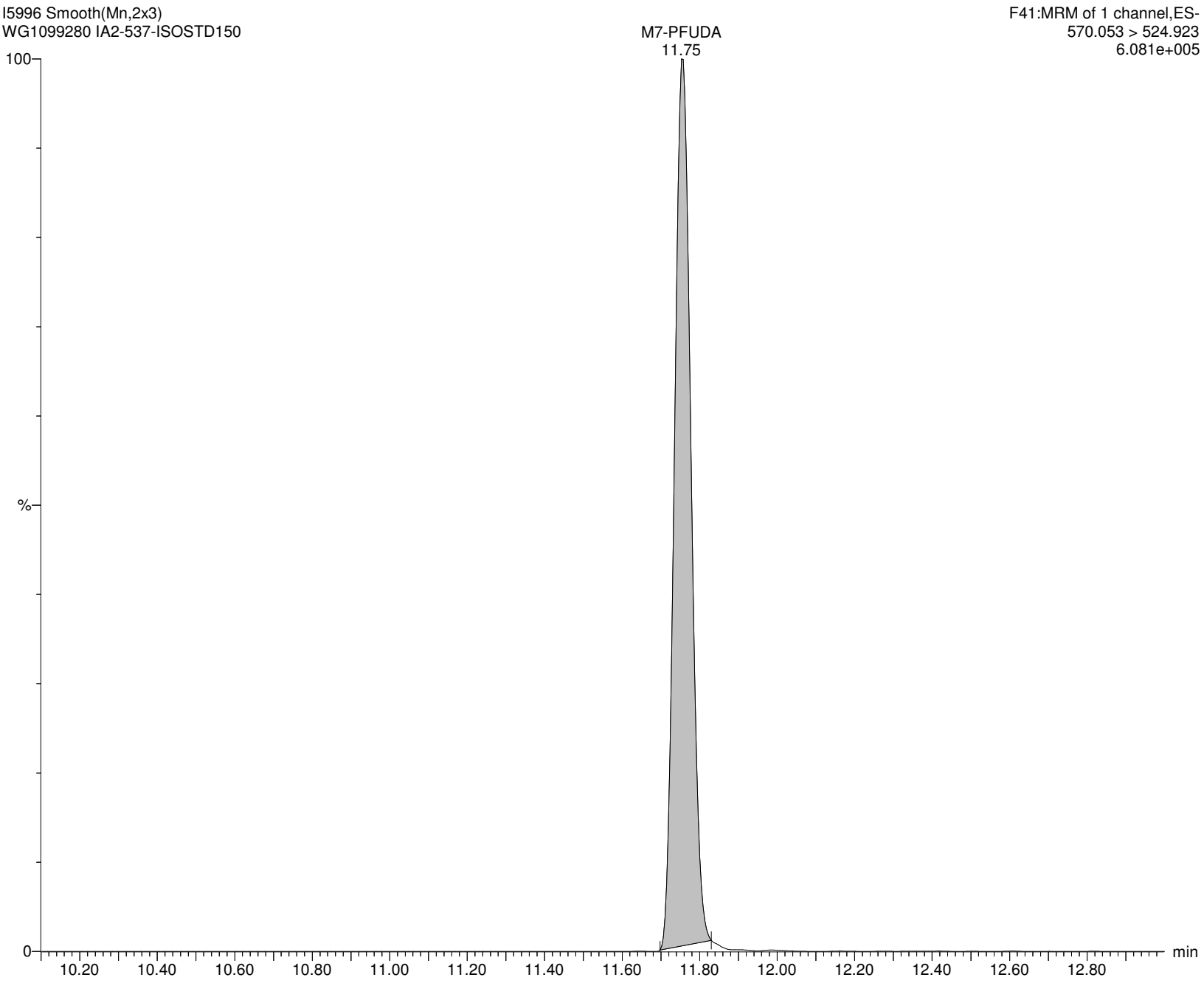
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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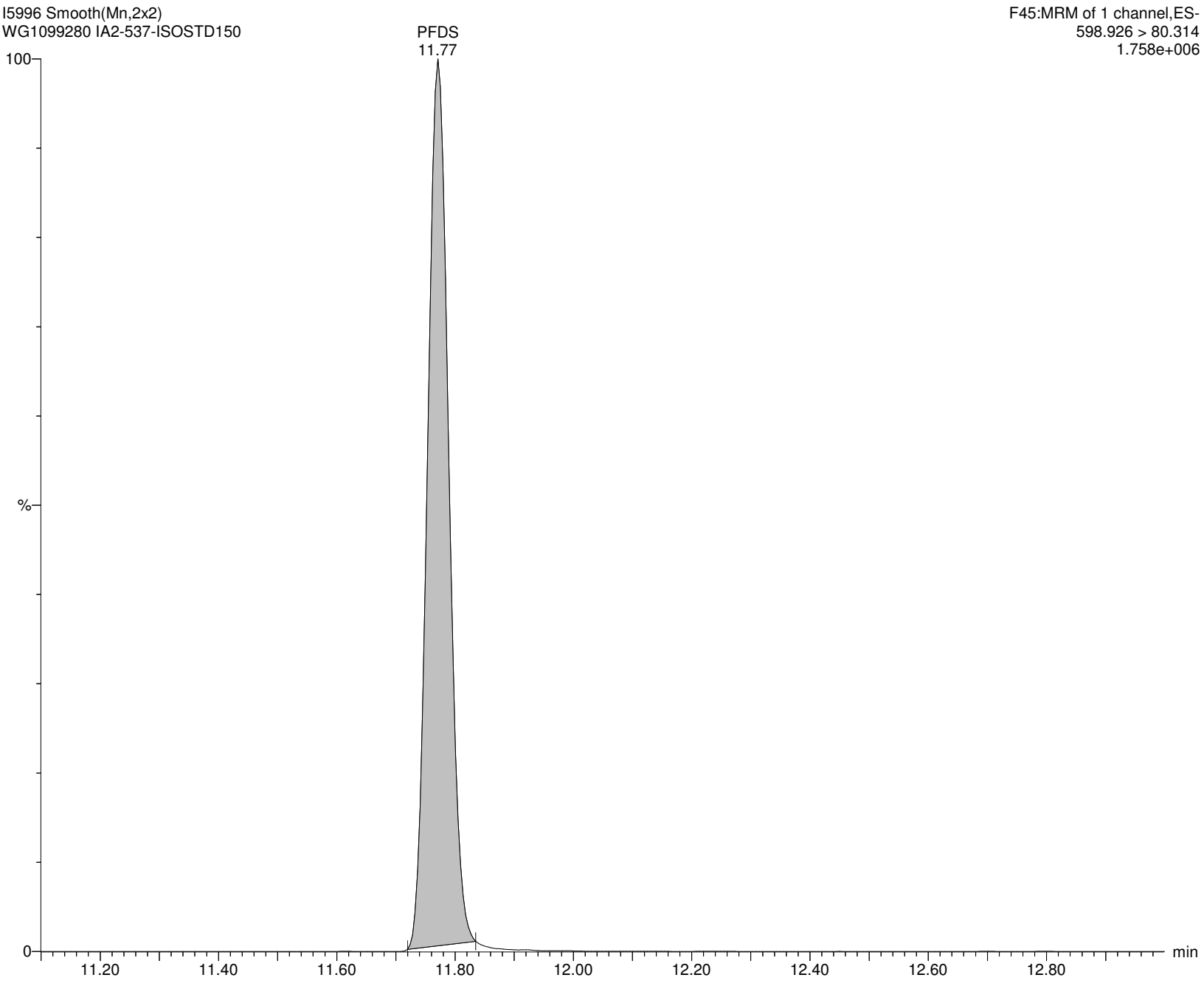

all concentration units in (ng/mL)

Alpha Analytical Inc.
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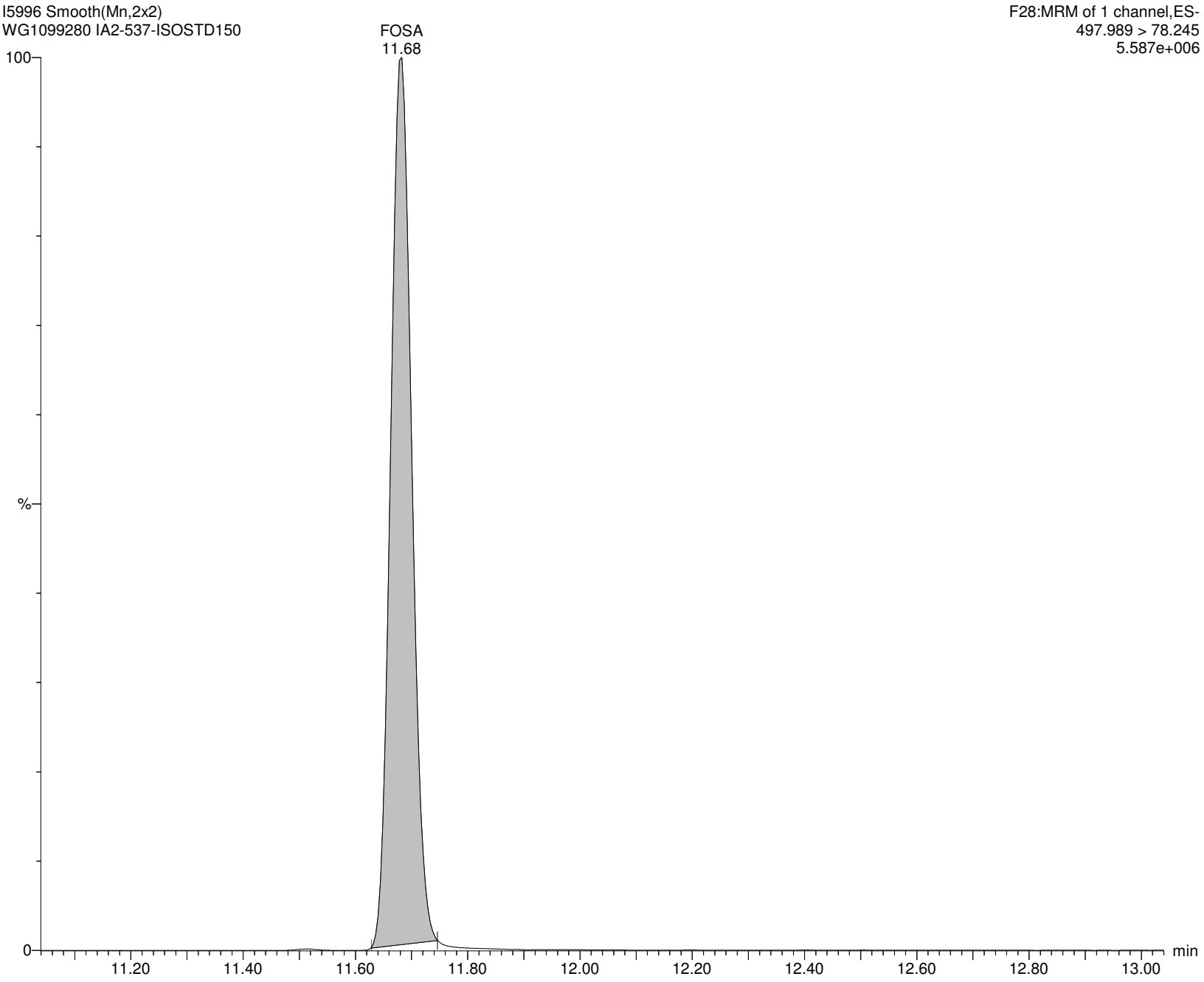

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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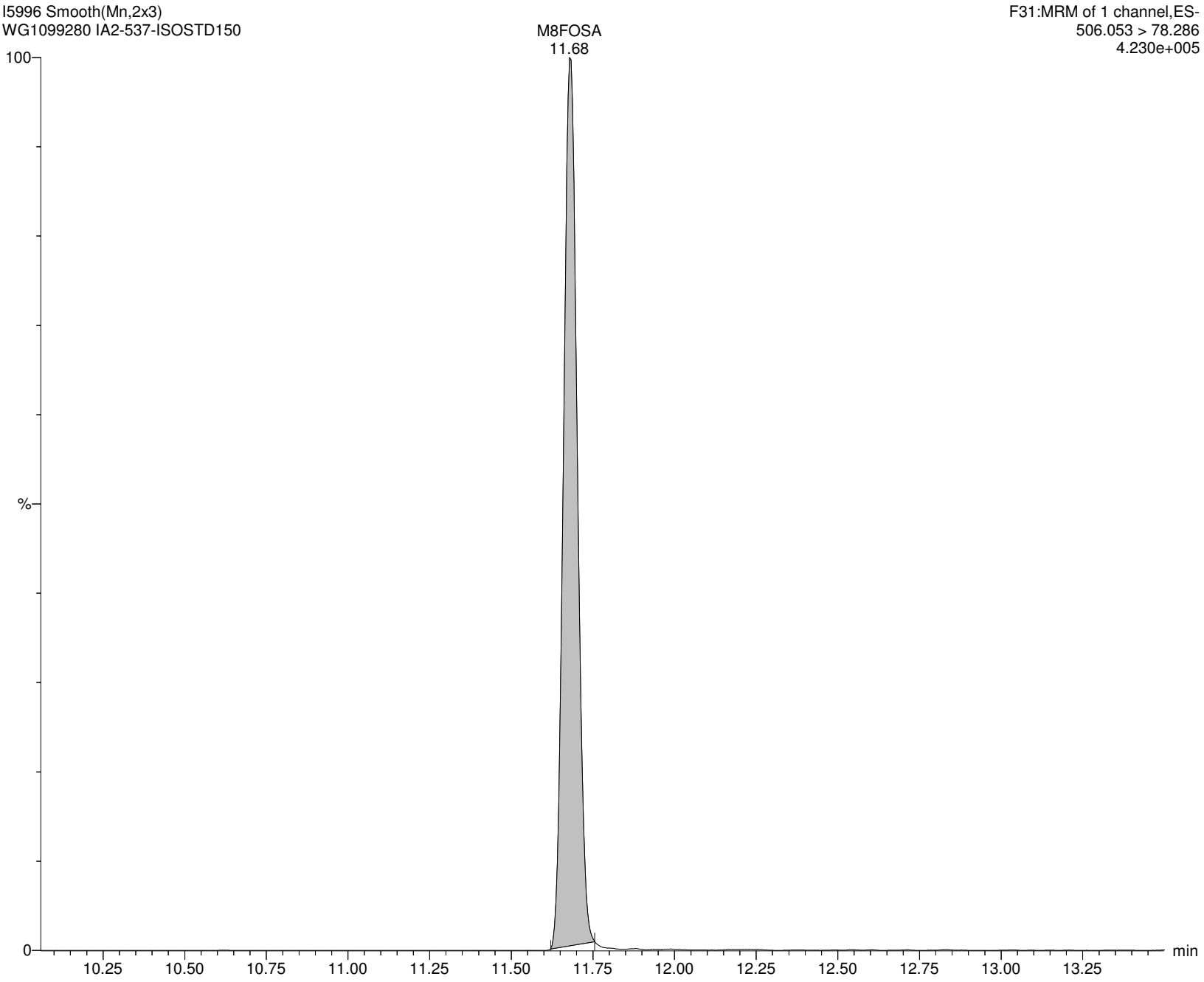

all concentration units in (ng/mL)

Alpha Analytical Inc.
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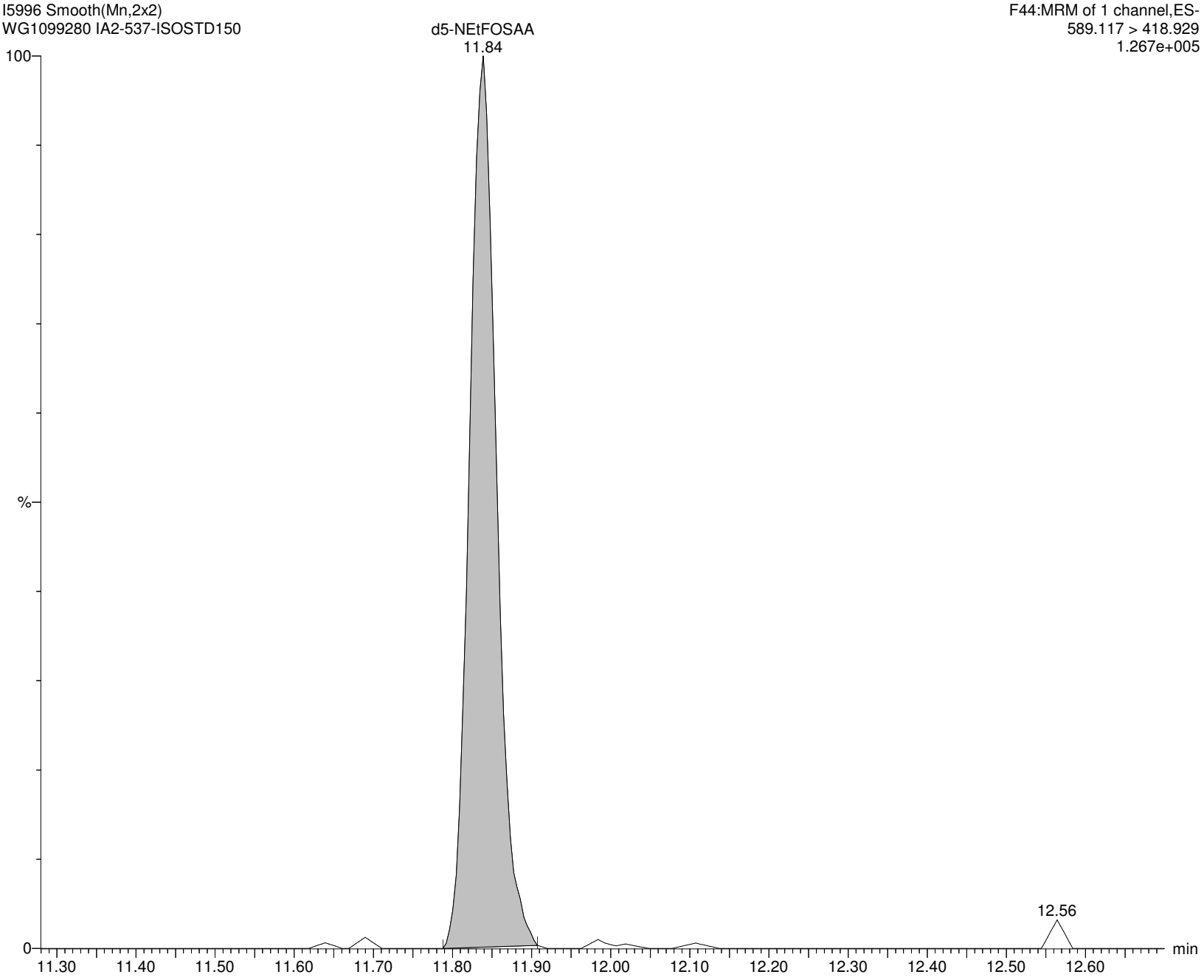
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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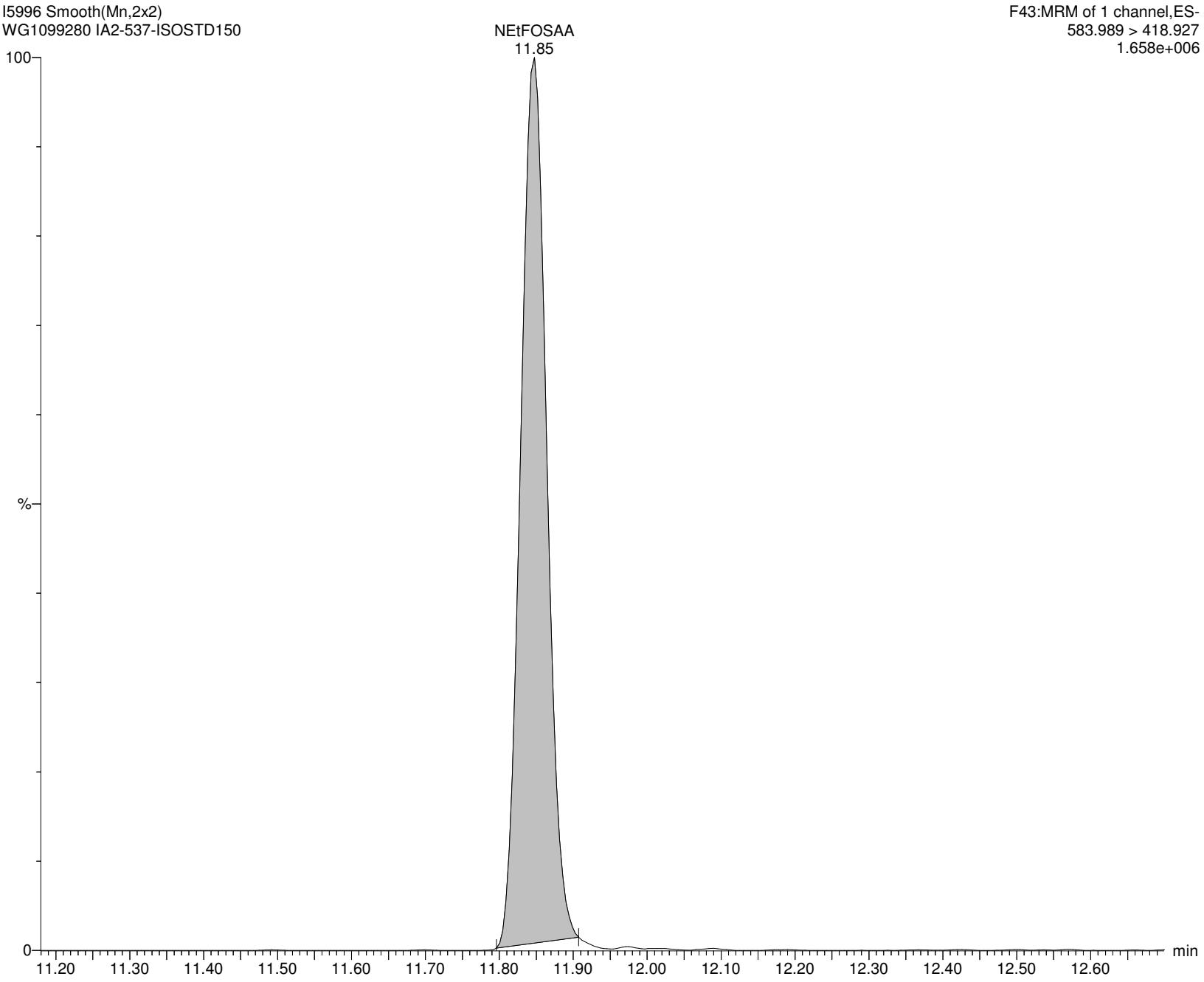

all concentration units in (ng/mL)

Alpha Analytical Inc.
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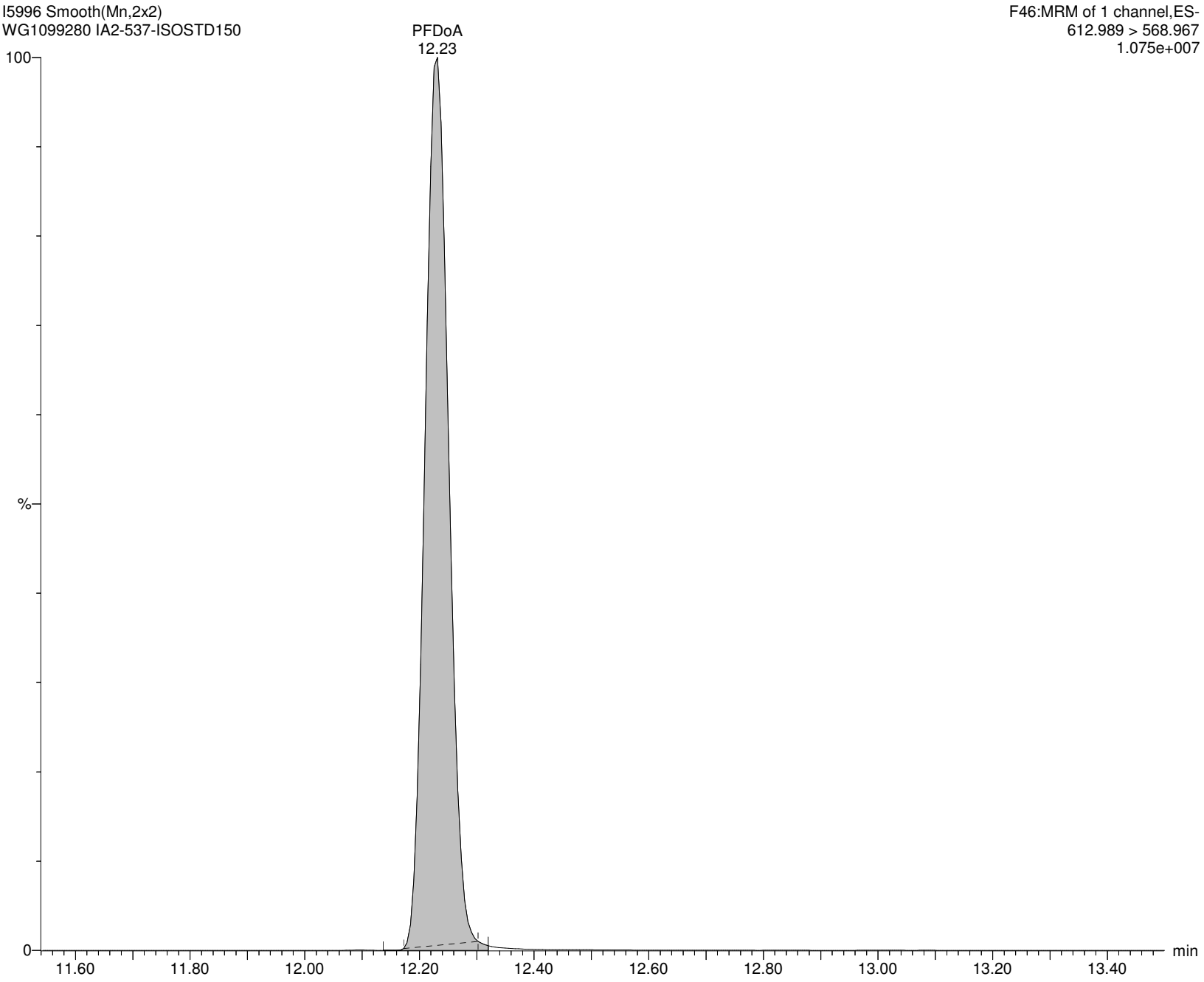

all concentration units in (ng/mL)

Alpha Analytical Inc.
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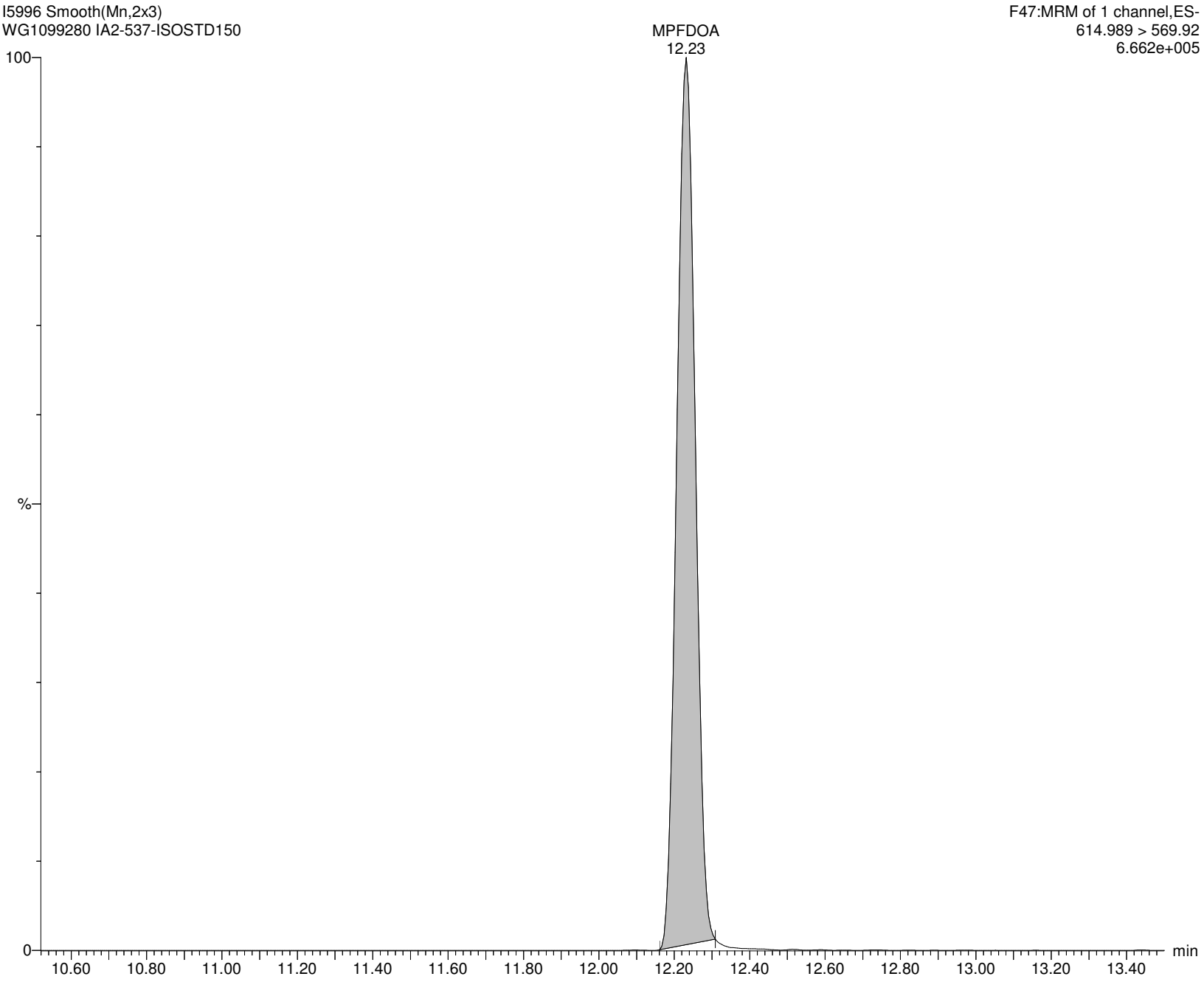

all concentration units in (ng/mL)

Alpha Analytical Inc.
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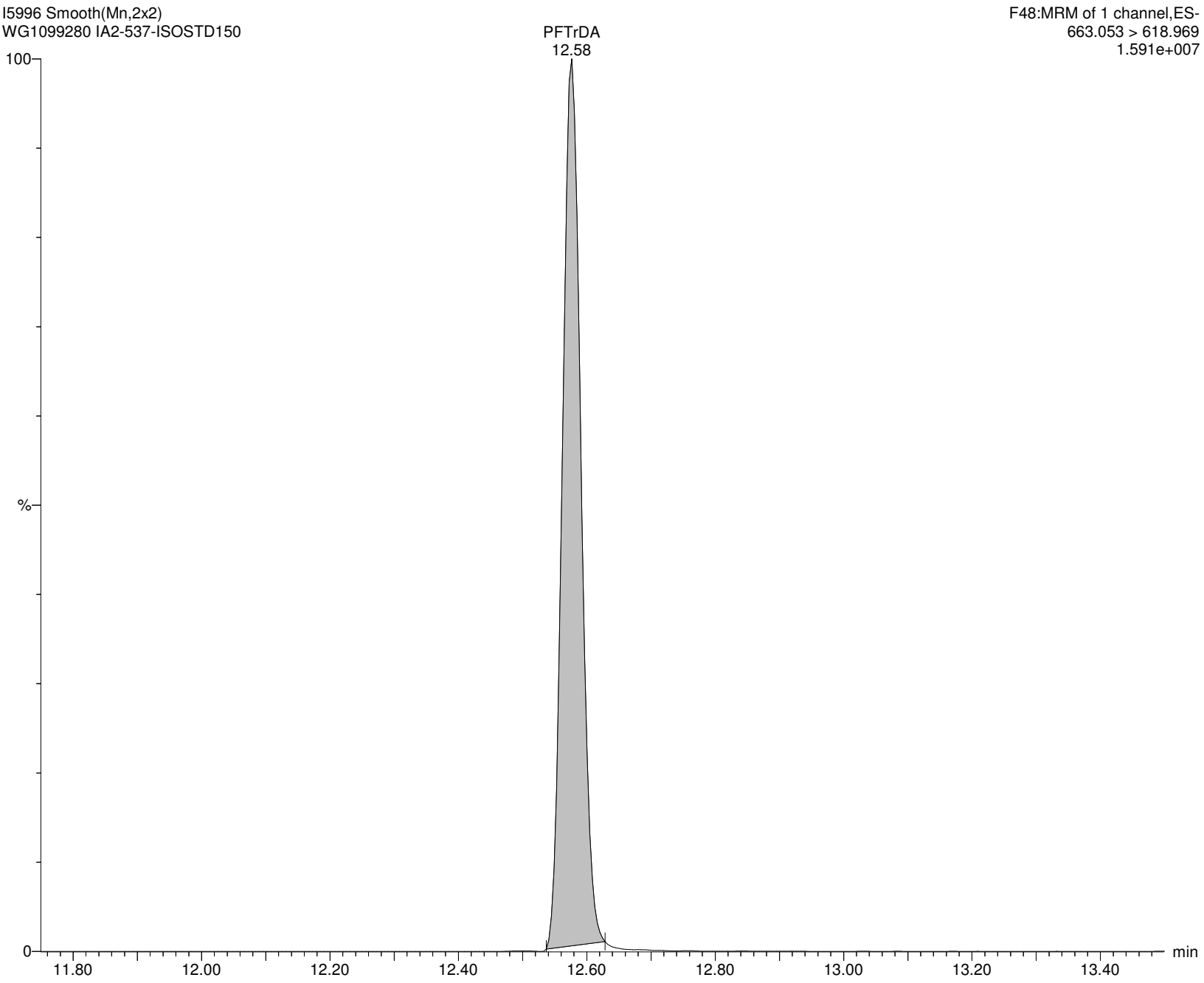

all concentration units in (ng/mL)

Alpha Analytical Inc.
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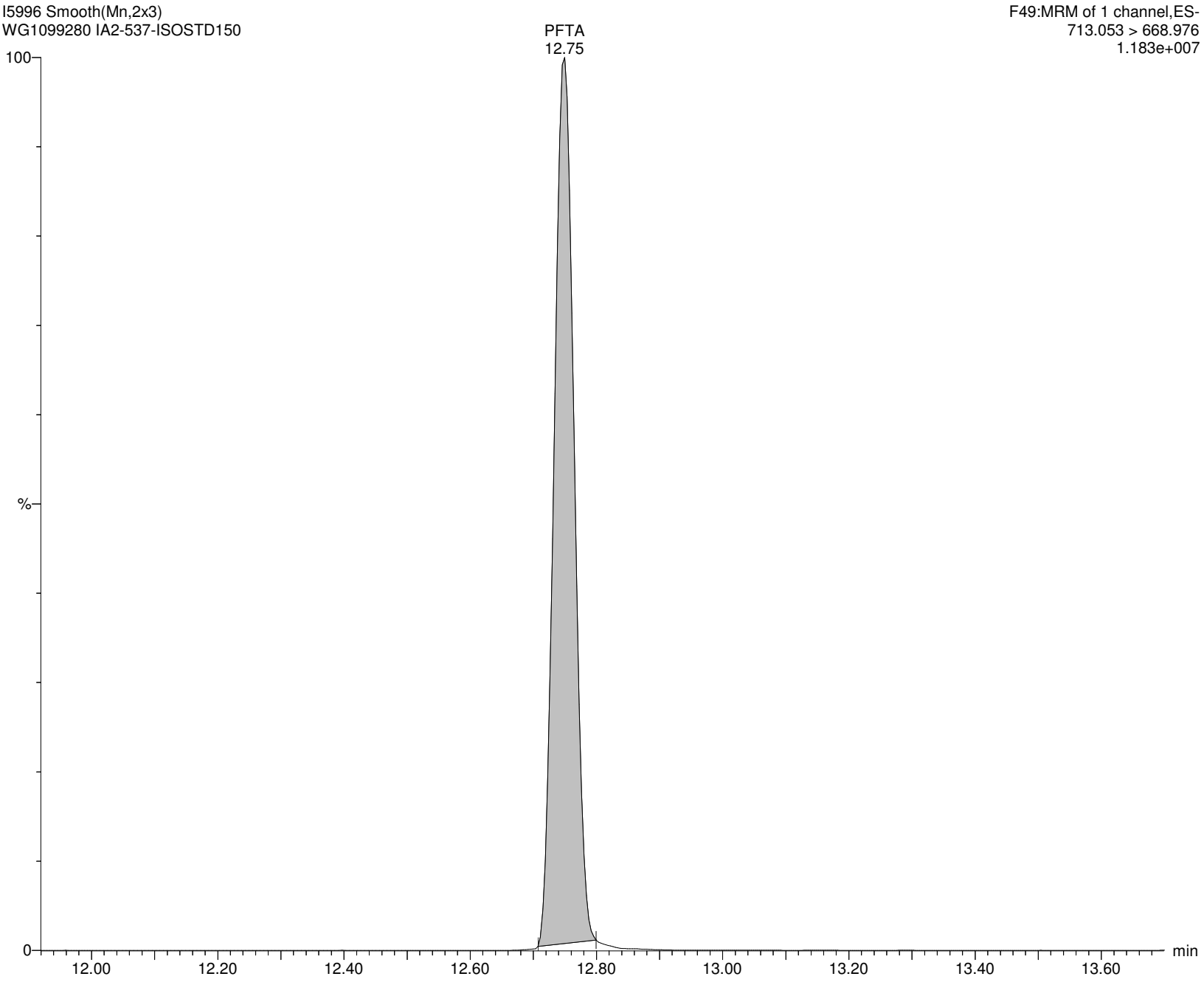

all concentration units in (ng/mL)

Alpha Analytical Inc.
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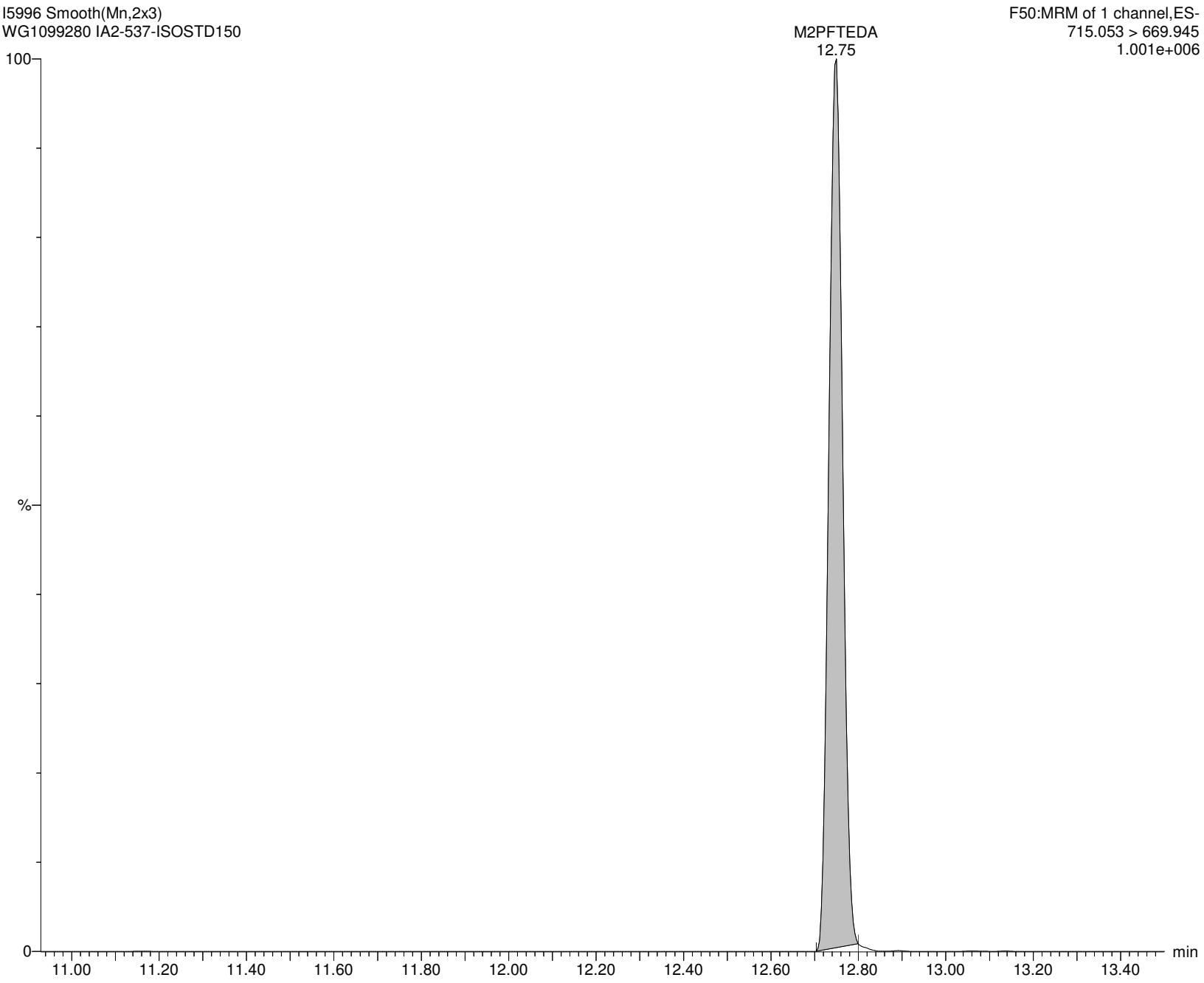

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Instrument: XEVO-TQSmicro#QEA0276
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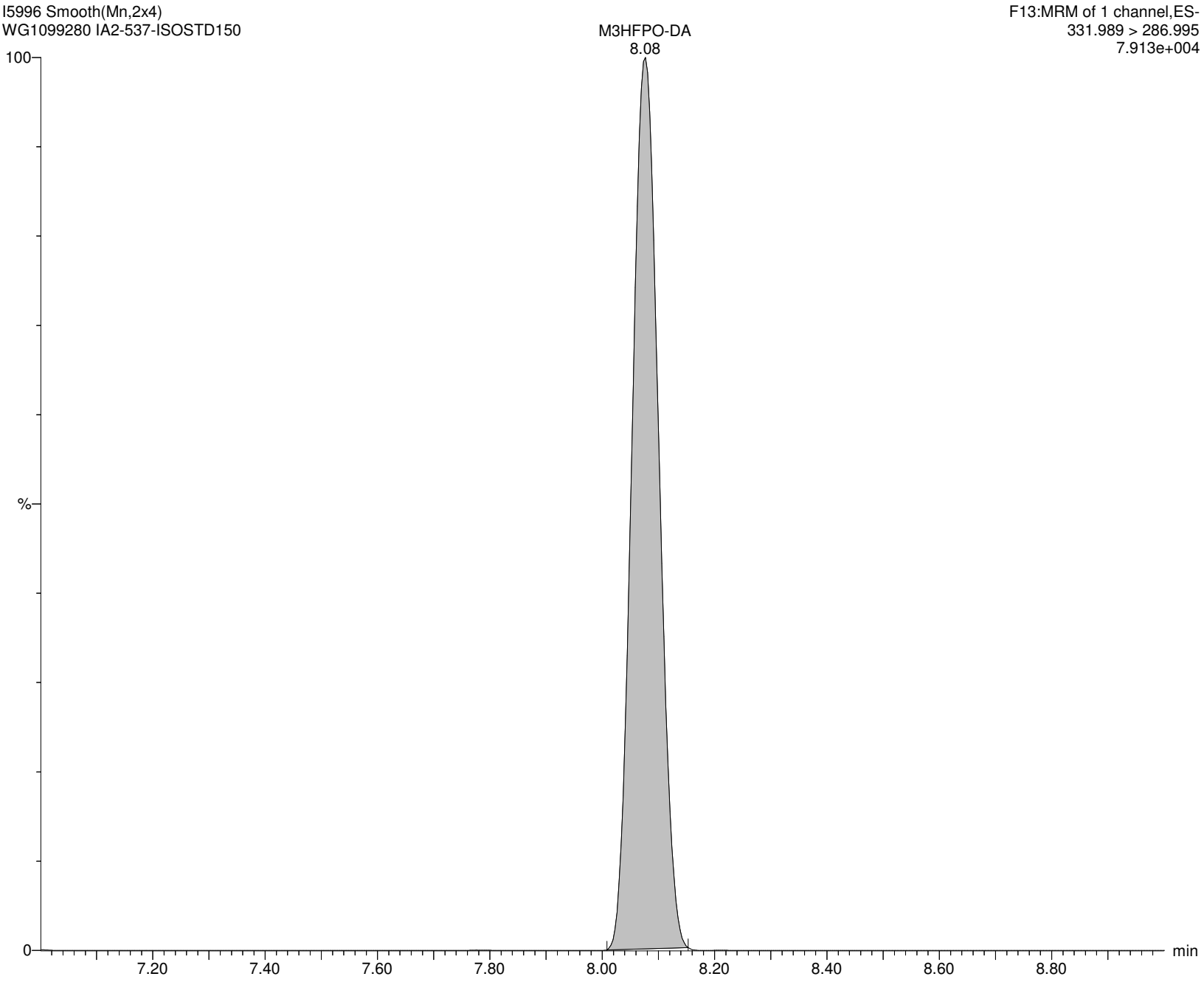

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:29:56 Eastern Daylight Time

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ID: IA2-537-ISOSTD150
Date: 21-Mar-2018
Time: 18:04:41
Description: WG1099280
User: LCMS01:PB
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
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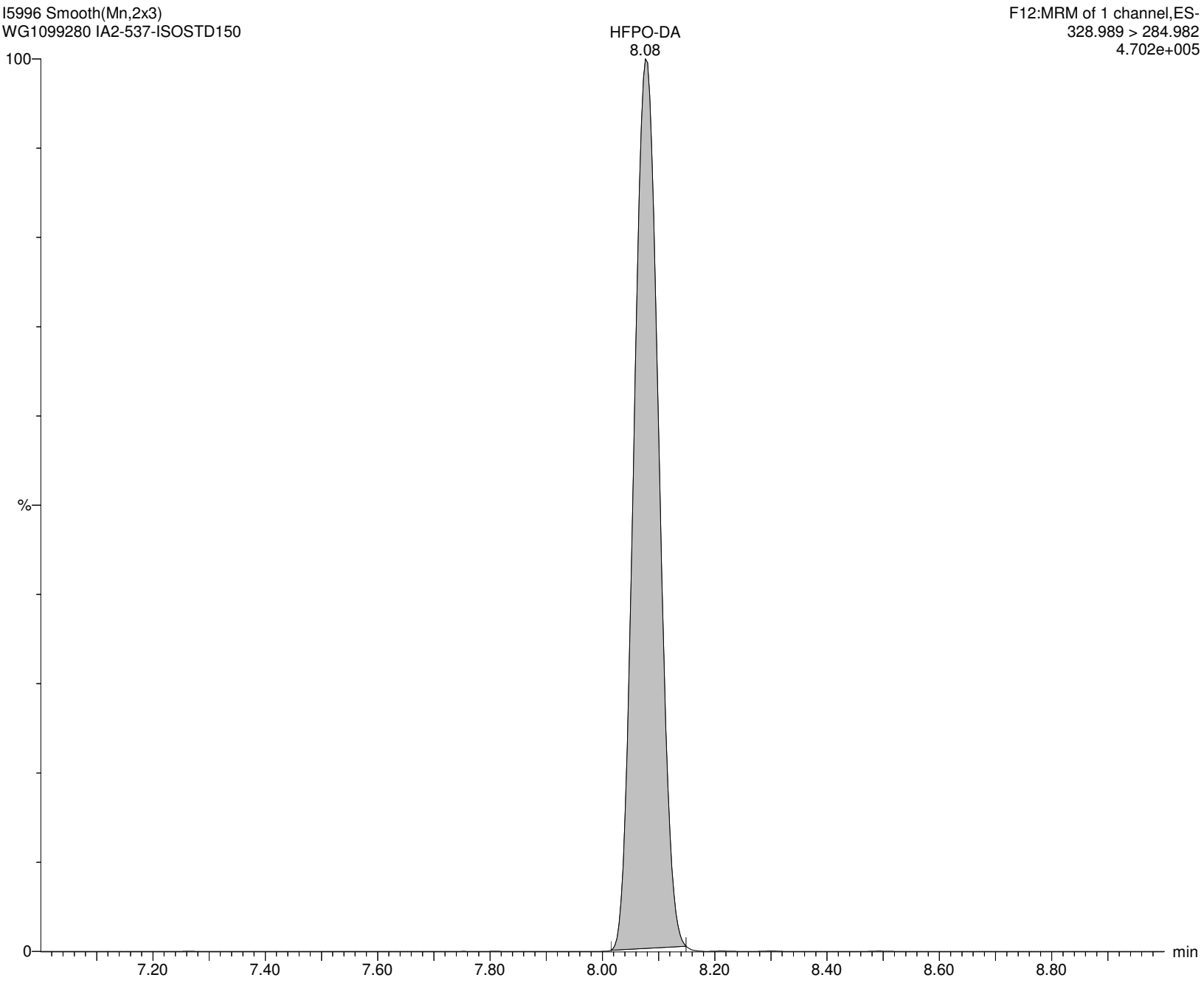

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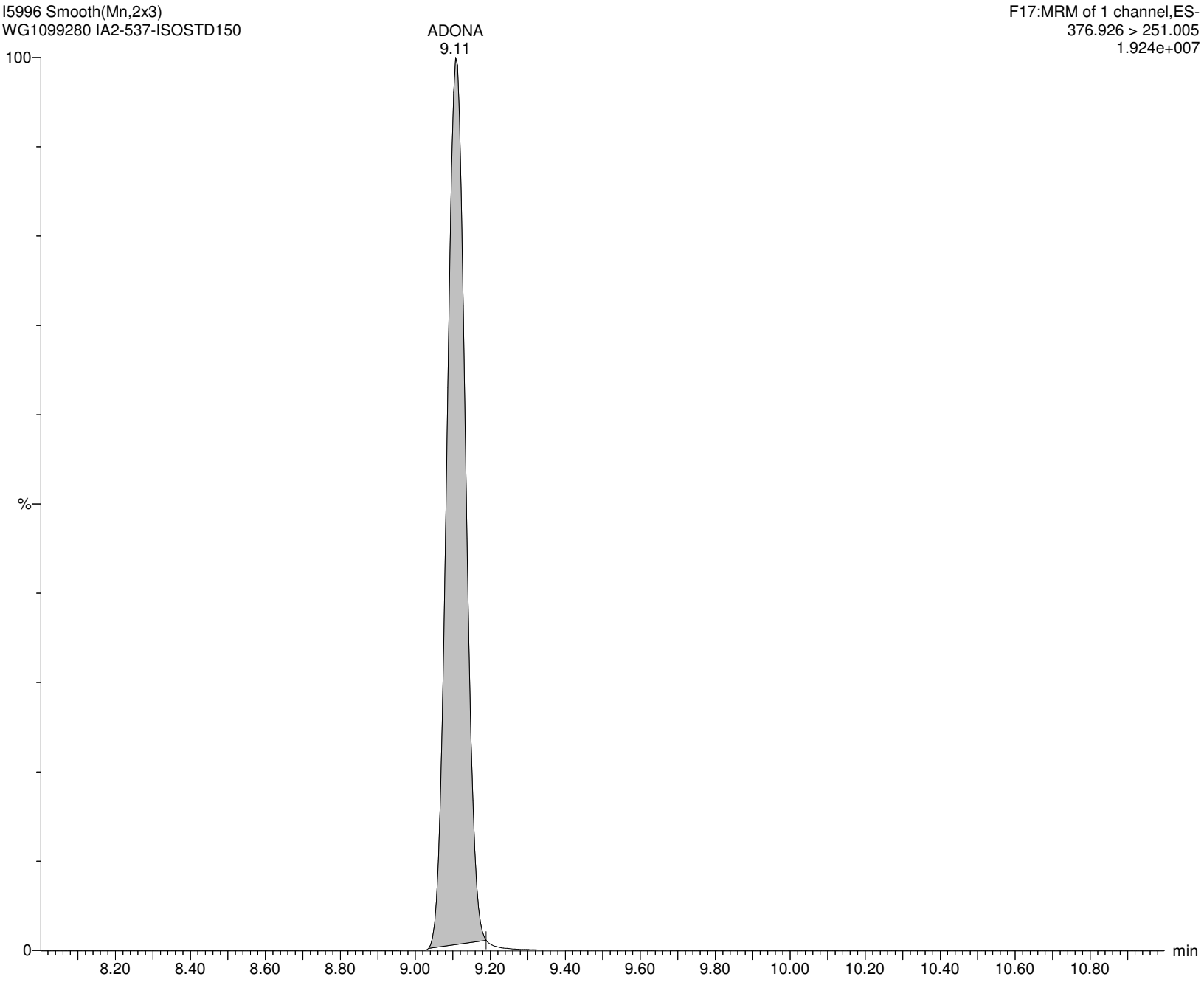

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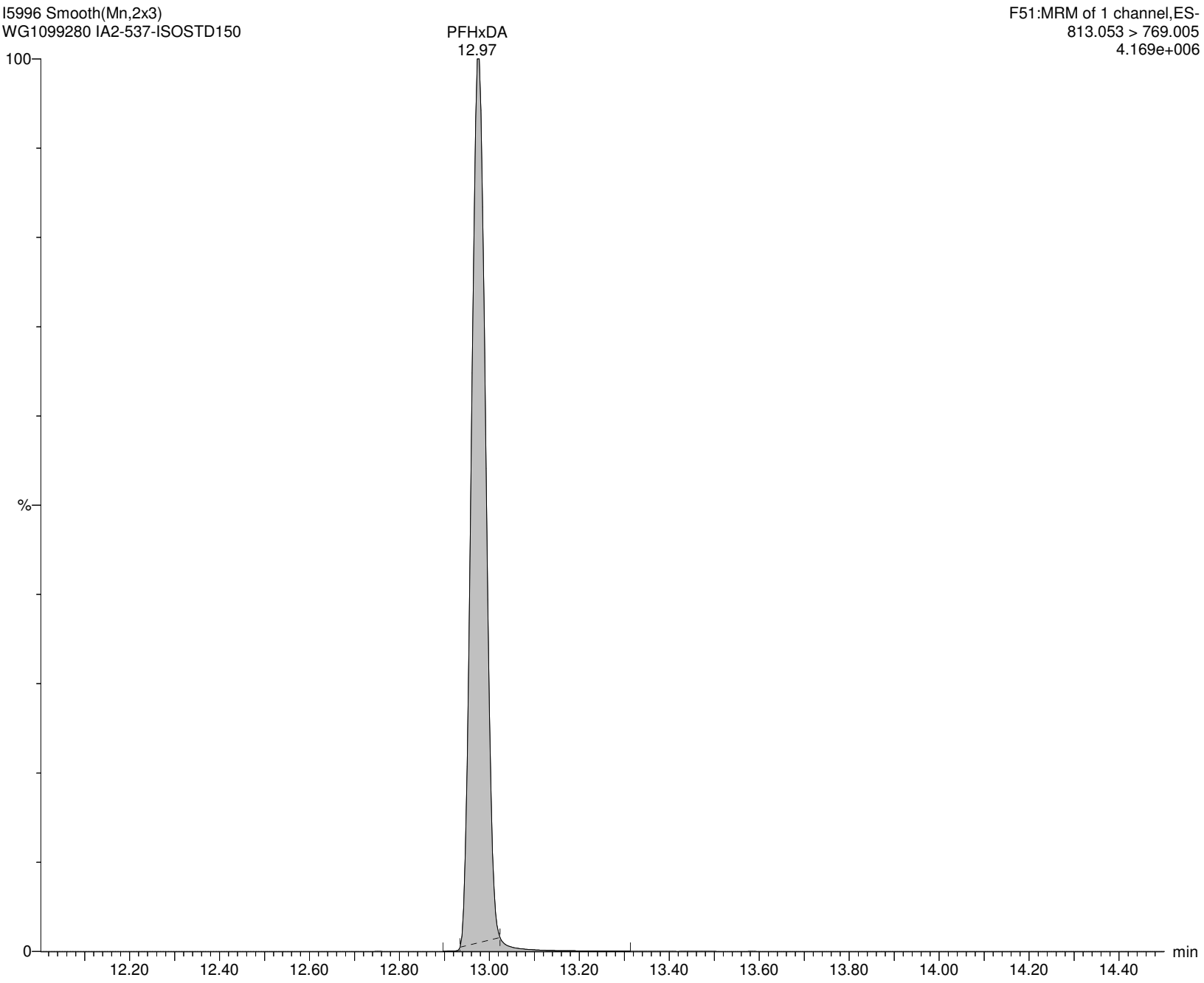

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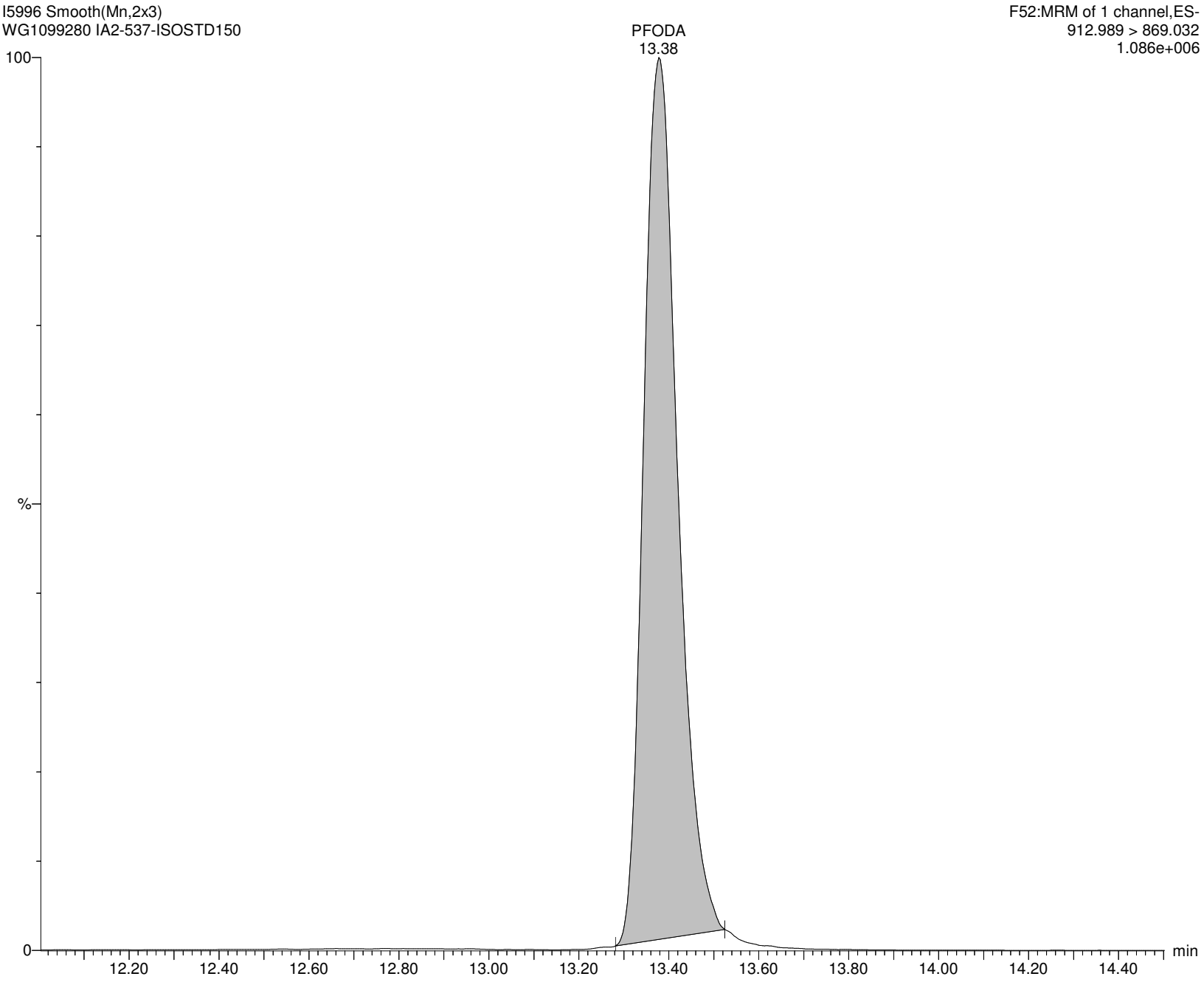

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 22 Mar 2018 09:28:35
Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: CA2-537-ISOSTD010
Name: I5997
Date: 21-Mar-2018
Time: 18:21:20
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	36371		10.723		na	107.2
2	M3PFBA	INT STD	2.26	215.926 > 172.122	45451		9.107		na	91.1
3	MPFBA	INT STD	2.26	216.926 > 172.137	46080		9.072		na	90.7
4	PFPeA	2706-90-3	5.66	262.926 > 219.002	39396		10.459		na	104.6
5	M5PFPEA	INT STD	5.66	TIC	47909		9.151		na	91.5
6	PFBS	375-73-5	6.39	298.989 > 80.295	8893		11.011		na	124.4
7	M3PFBS	INT STD	6.39	301.989 > 80.254	8213		8.644		na	86.4
8	4:2FTS	757124-72-4	7.58	326.926 > 306.957	3961		10.739		na	114.9
9	M2-4:2FTS	INT STD	7.58	328.989 > 80.973	1106		9.023		na	90.2
10	PFHxA	307-24-4	7.65	312.989 > 269.028	51404		11.237		na	112.4
11	M5PFHxA	INT STD	7.65	317.989 > 273.045	50604		8.727		na	87.3
12	PFPeS	2706-91-4	7.98	348.926 > 80.251	7261		9.609		na	102.2
13	PFHpA	375-85-9	8.93	362.926 > 319.014	51848		9.815		na	98.2
14	M4PFHpA	INT STD	8.93	366.926 > 321.979	57459		8.724		na	87.2
15	br-PFHxS	355-46-4	8.86	398.926 > 80.295	1035		1.371		na	72.2
16	L-PFHxS	355-46-4	9.10	398.926 > 80.295	7893		10.697		na	132.1
17	PFHxS	355-46-4		398.926 > 80.295	8928		12.068		na	
18	M3PFHxS	INT STD	9.10	401.926 > 80.317	7818		8.945		na	89.4
19	br-PFOA	335-67-1	9.65	412.989 > 368.9	499		0.093		na	0.9
20	L-PFOA	335-67-1	9.86	412.989 > 368.9	54175		10.051		na	100.5
21	M2PFOA	INT STD	9.86	415.032 > 369.968	60247		9.735		na	97.4
22	PFOA	335-67-1		412.989 > 368.9	54674		10.144		na	
23	M8PFOA	INT STD	9.86	420.989 > 375.979	52001		8.887		na	88.9
24	6:2FTS	27619-97-2	9.83	426.989 > 406.921	3353		10.061		na	105.9
25	M2-6:2FTS	INT STD	9.83	428.989 > 408.917	3477		7.515		na	75.1
26	PFHpS	375-92-8	9.96	448.926 > 80.257	4442		10.457		na	110.1
27	PFNA	375-95-1	10.60	462.989 > 418.931	44813		11.428		na	114.3
28	M9PFNA	INT STD	10.60	472.053 > 426.947	47051		8.556		na	85.6
29	br-PFOS	1763-23-1	10.40	498.989 > 80.294	1987		2.336		na	116.8
30	L-PFOS	1763-23-1	10.65	498.989 > 80.294	4440		7.385		na	93.5
31	PFOS	1763-23-1		498.989 > 80.294	6427		9.721		na	
32	M4PFOS	INT STD	10.65	503.032 > 80.306	5789		9.547		na	95.5
33	M8PFOS	INT STD	10.65	507.053 > 80.294	6140		8.687		na	86.9
34	PFDA	335-76-2	11.22	513.053 > 468.906	38936		10.765		na	107.7
35	M2PFDA	INT STD	11.22	515.053 > 469.934	38317		9.139		na	91.4
36	M6PFDA	INT STD	11.22	519.053 > 473.931	42543		9.195		na	91.9
37	8:2FTS	39108-34-4	11.21	526.989 > 506.946	2286		11.251		na	117.2
38	M2-8:2FTS	INT STD	11.21	529.117 > 80.953	597		8.360		na	83.6
39	PFNS	68259-12-1	11.25	548.989 > 80.249	5053		10.155		na	105.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:47:07 Eastern Daylight Time

ID: CA2-537-ISOSTD010
Name: I5997
Date: 21-Mar-2018
Time: 18:21:20
Description: WG1099280
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:PB
Inlet Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180321_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.56	573.096 > 418.987	4881		8.251		na	82.5
41	NMeFOSAA	2355-31-9	11.56	570.053 > 418.917	5424		10.577		na	105.8
42	PFUnA	2058-94-8	11.76	562.989 > 518.903	36701		10.039		na	100.4
43	M7-PFUDA	INT STD	11.76	570.053 > 524.923	35517		9.382		na	93.8
44	PFDS	335-77-3	11.77	598.926 > 80.314	5401		9.187		na	95.2
45	FOSA	754-91-6	11.68	497.989 > 78.245	15691		10.447		na	104.5
46	M8FOSA	INT STD	11.68	506.053 > 78.286	18393		9.010		na	90.1
47	d5-NEtFOSAA	INT STD	11.84	589.117 > 418.929	4316		7.701		na	77.0
48	NEtFOSAA	2991-50-6	11.85	583.989 > 418.927	4301		10.853		na	108.5
49	PFDoA	307-55-1	12.23	612.989 > 568.967	36566		10.633		na	106.3
50	MPFDOA	INT STD	12.23	614.989 > 569.92	35127		8.967		na	89.7
51	PFTrDA	72629-94-8	12.57	663.053 > 618.969	36898		11.361		na	113.6
52	PFTA	376-06-7	12.75	713.053 > 668.976	26785		10.357		na	103.6
53	M2PFTEDA	INT STD	12.75	715.053 > 669.945	30319		9.846		na	98.5
54	M3HFPO-DA	INT STD	8.09	331.989 > 286.995	1553		143.112		na	71.6
55	HFPO-DA	13252-13-6	8.09	328.989 > 284.982	1301		491.099		na	122.8
56	ADONA	958445-44-8	9.11	376.926 > 251.005	201040		25.919		na	137.0
57	PFHxDA		12.97	813.053 > 769.005	22001		19.381		na	96.9
58	PFODA		13.36	912.989 > 869.032	11559		20.951		na	104.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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Vial: 2:B,2
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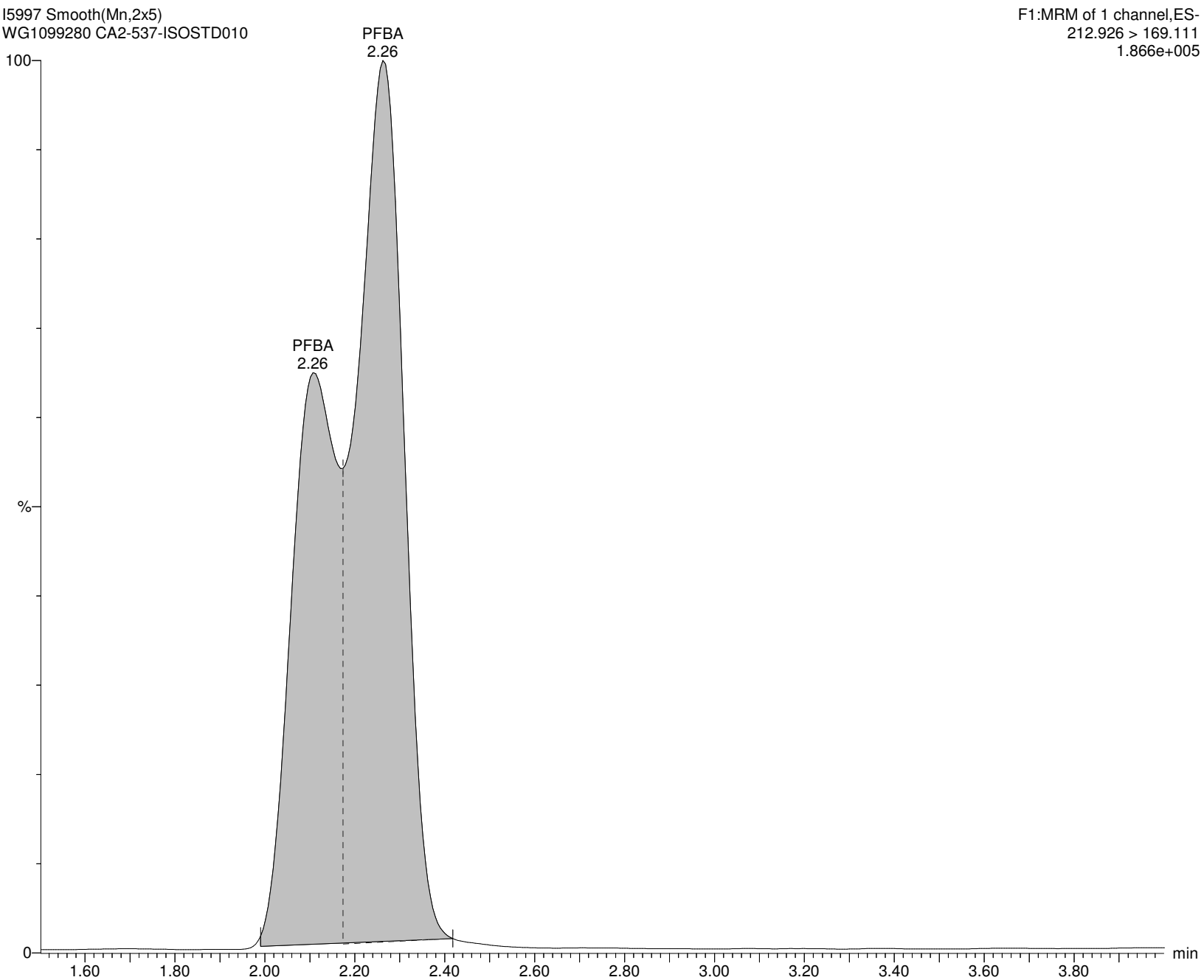

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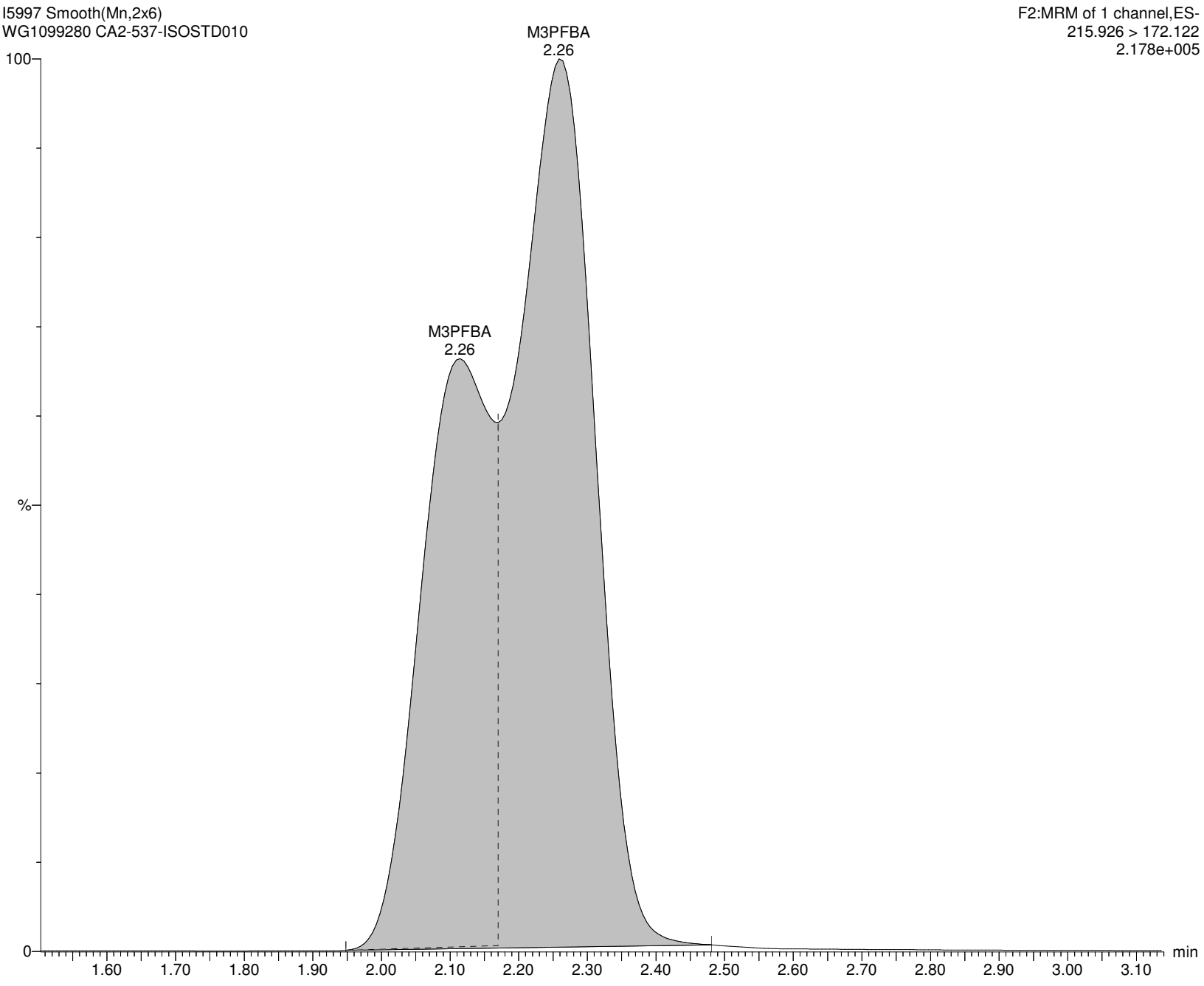

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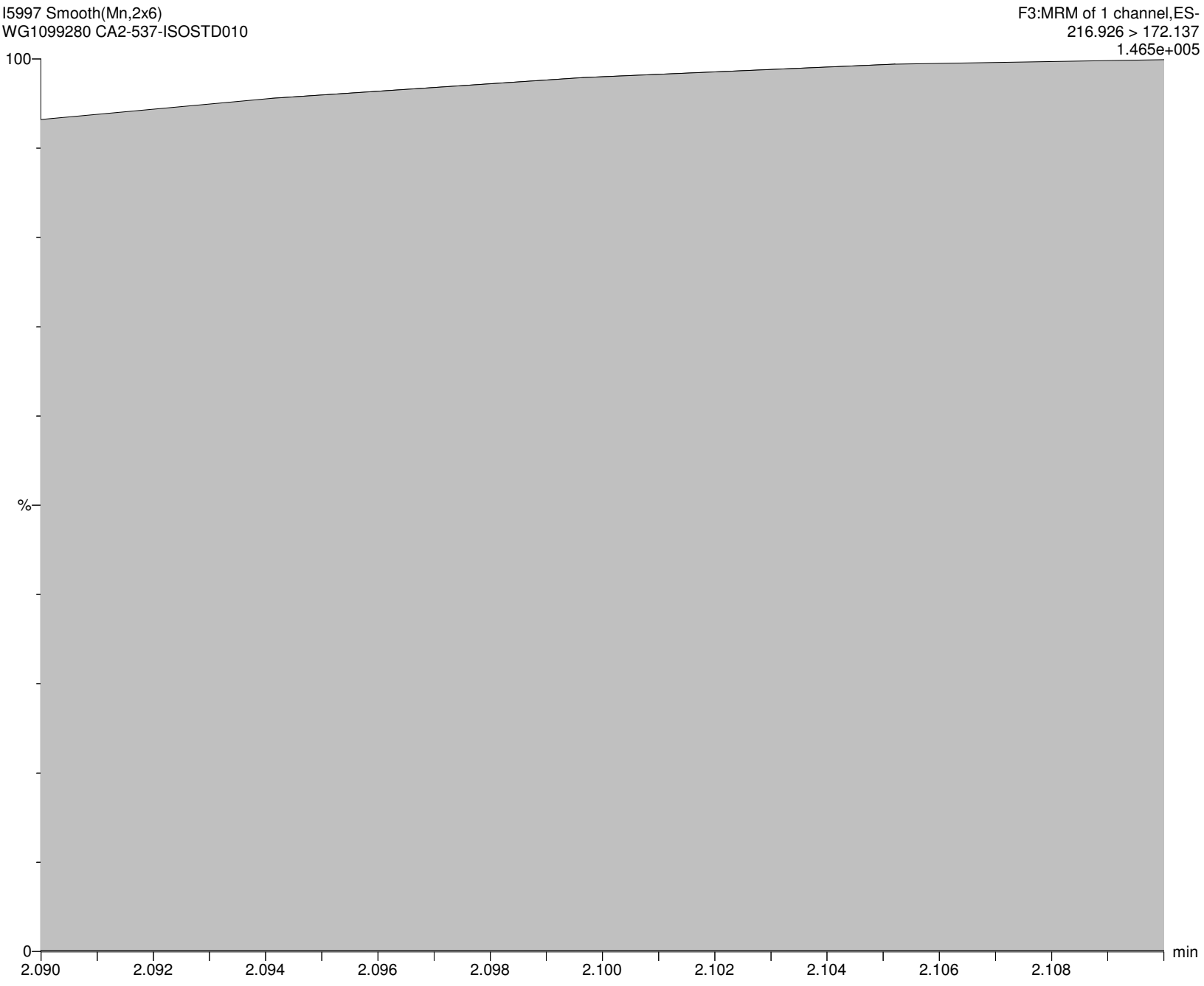

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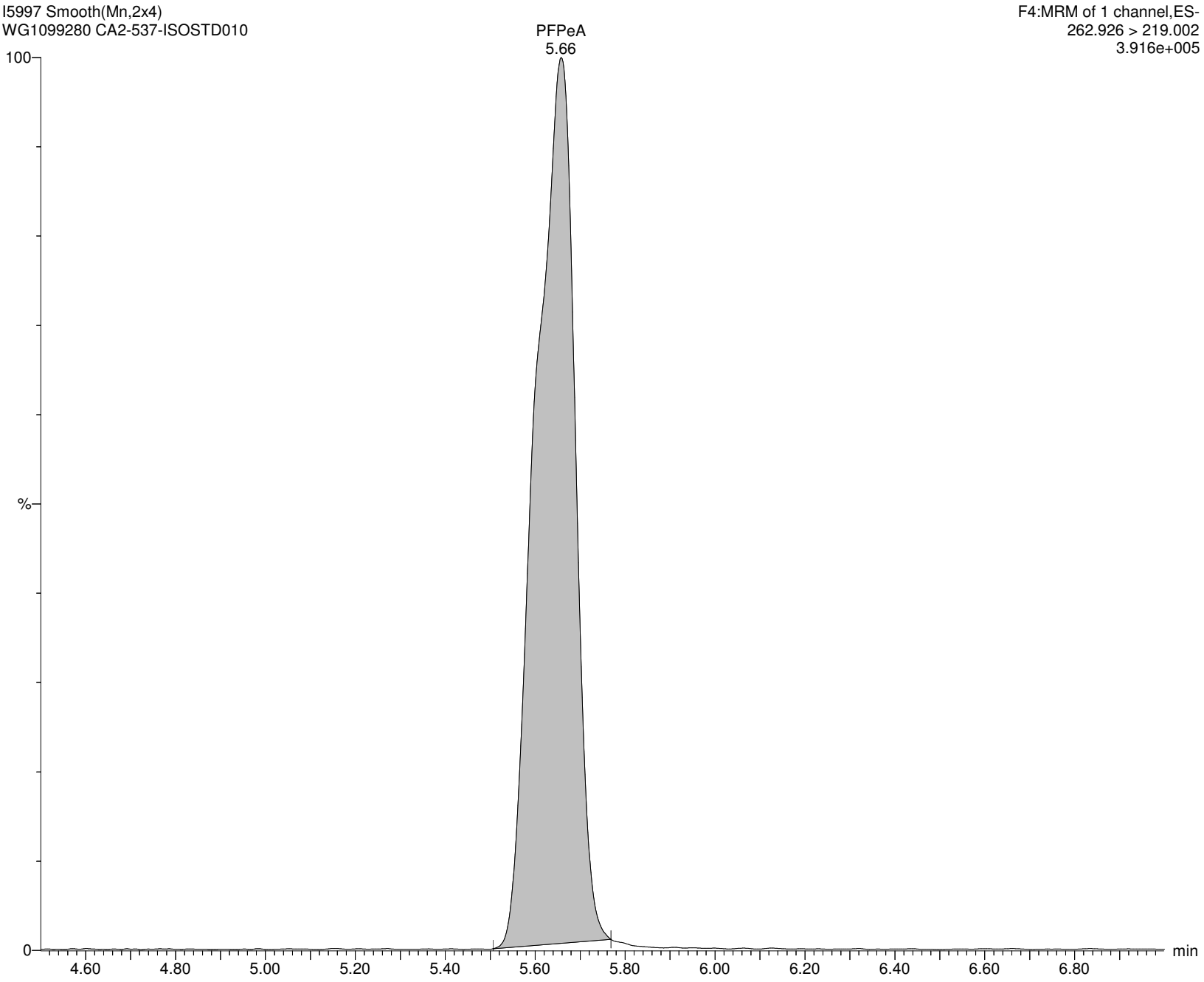

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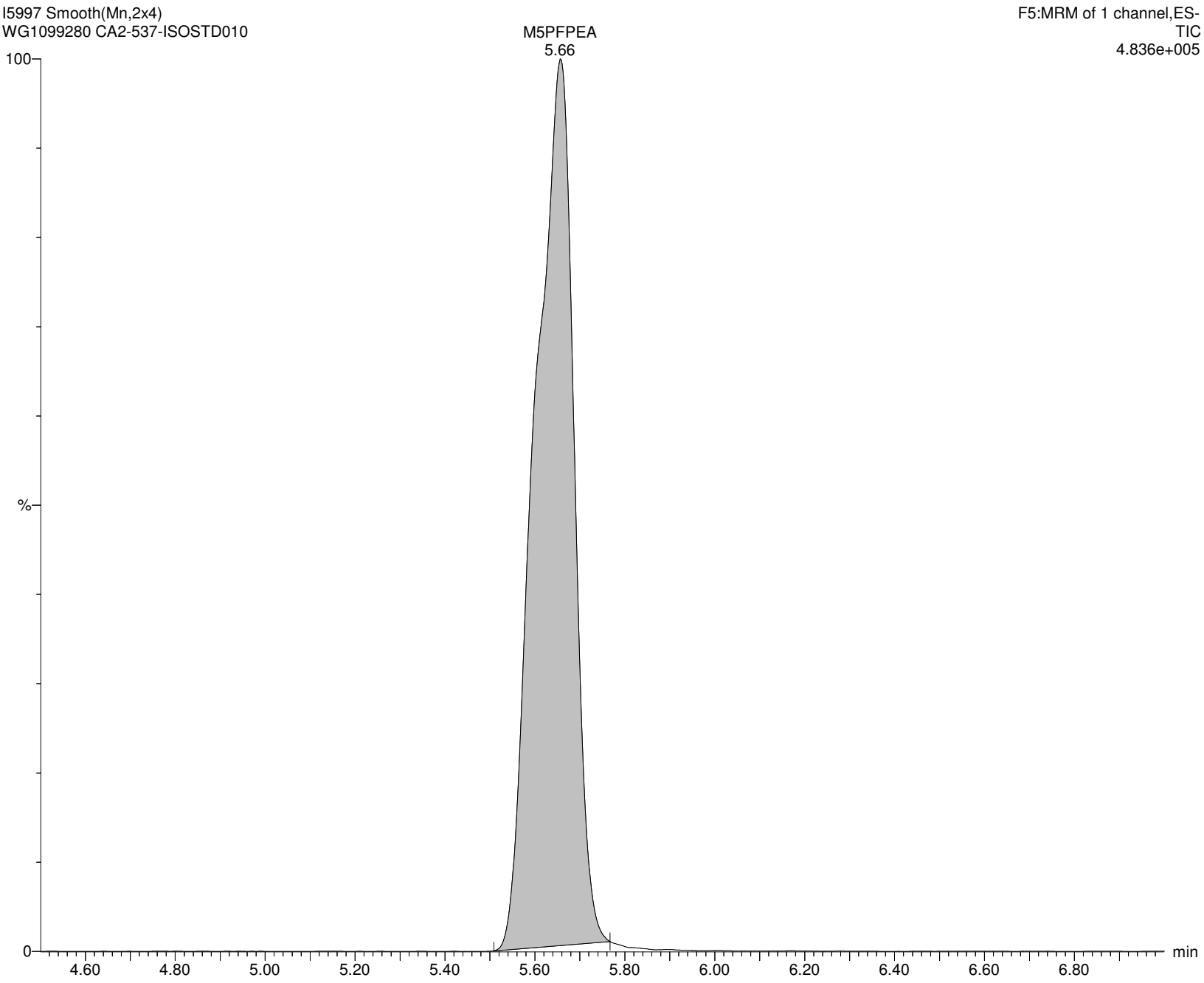

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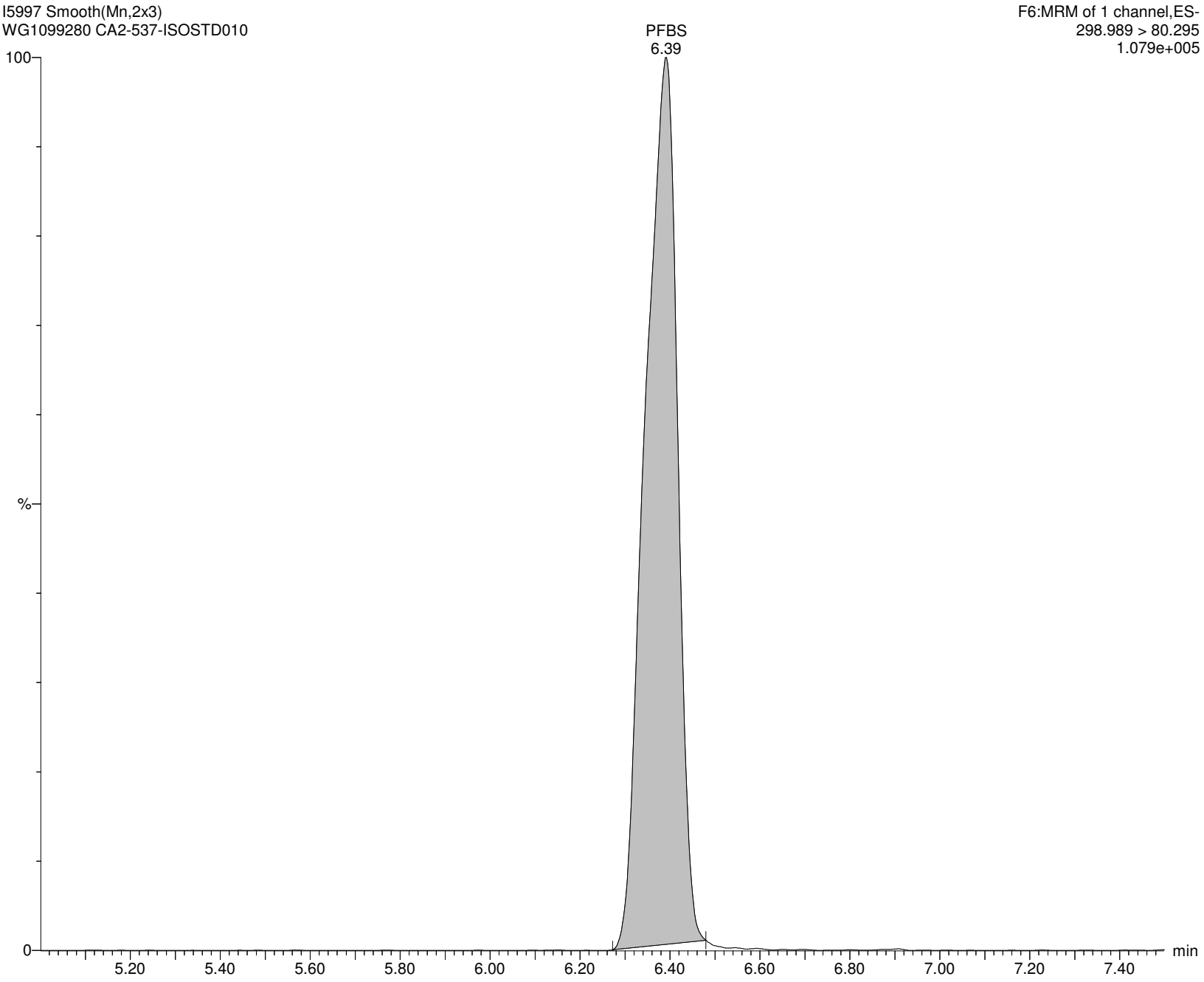
PFBS



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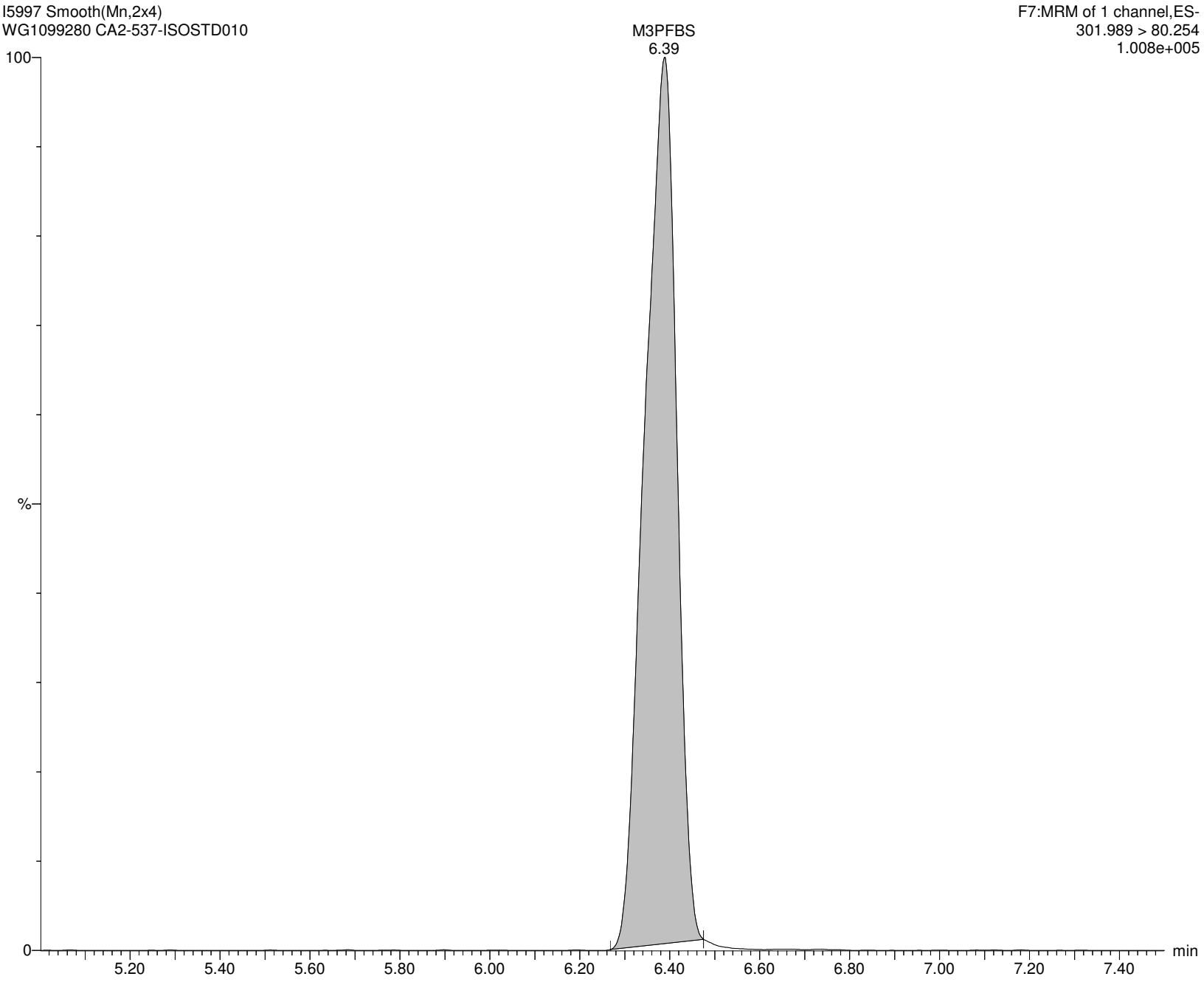
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:47:07 Eastern Daylight Time

Name: I5997
ID: CA2-537-ISOSTD010
Date: 21-Mar-2018
Time: 18:21:20
Description: WG1099280
User: LCMS01:PB
Vial: 2:B,2
Instrument: XEVO-TQSmicro#QEA0276
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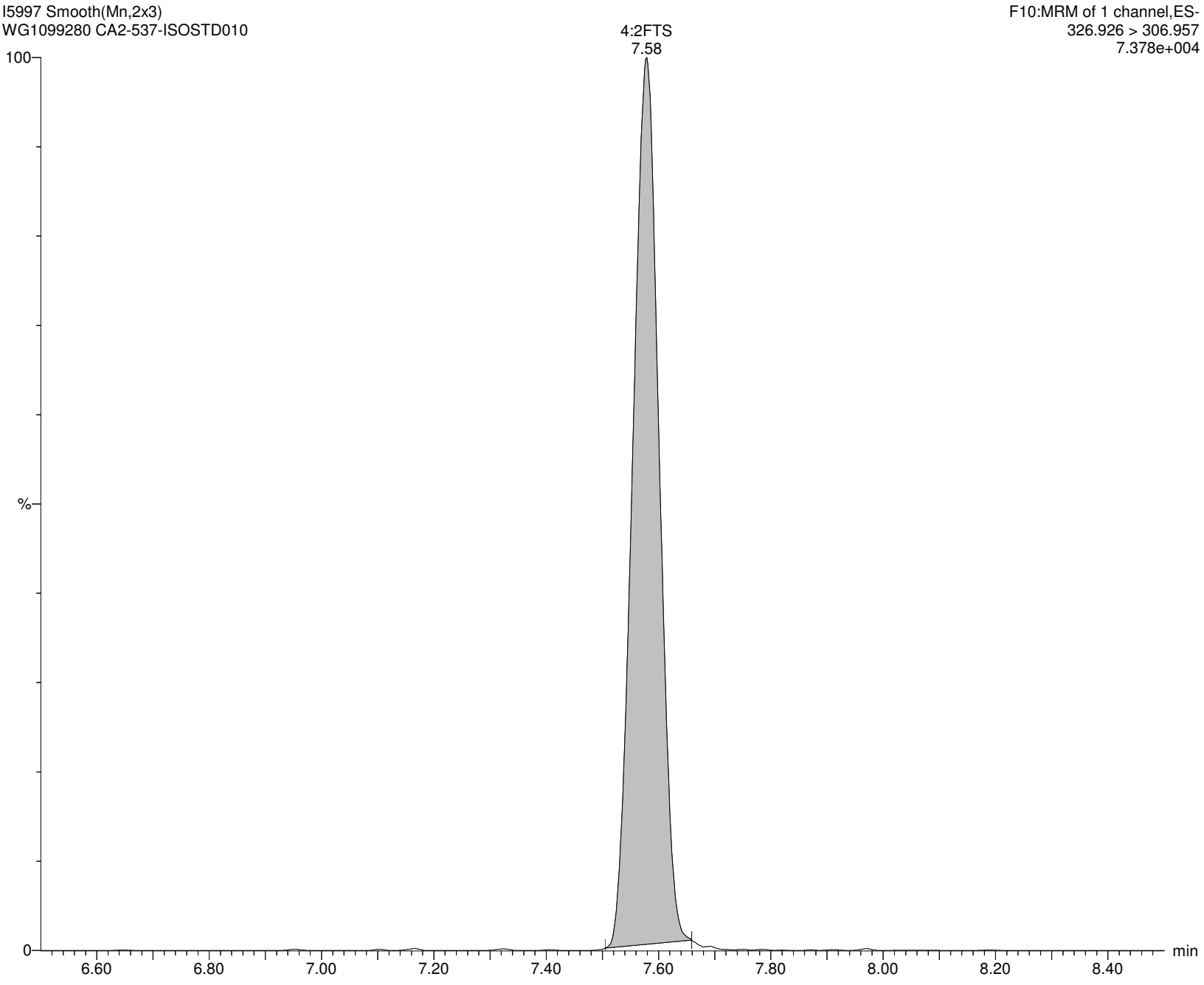
4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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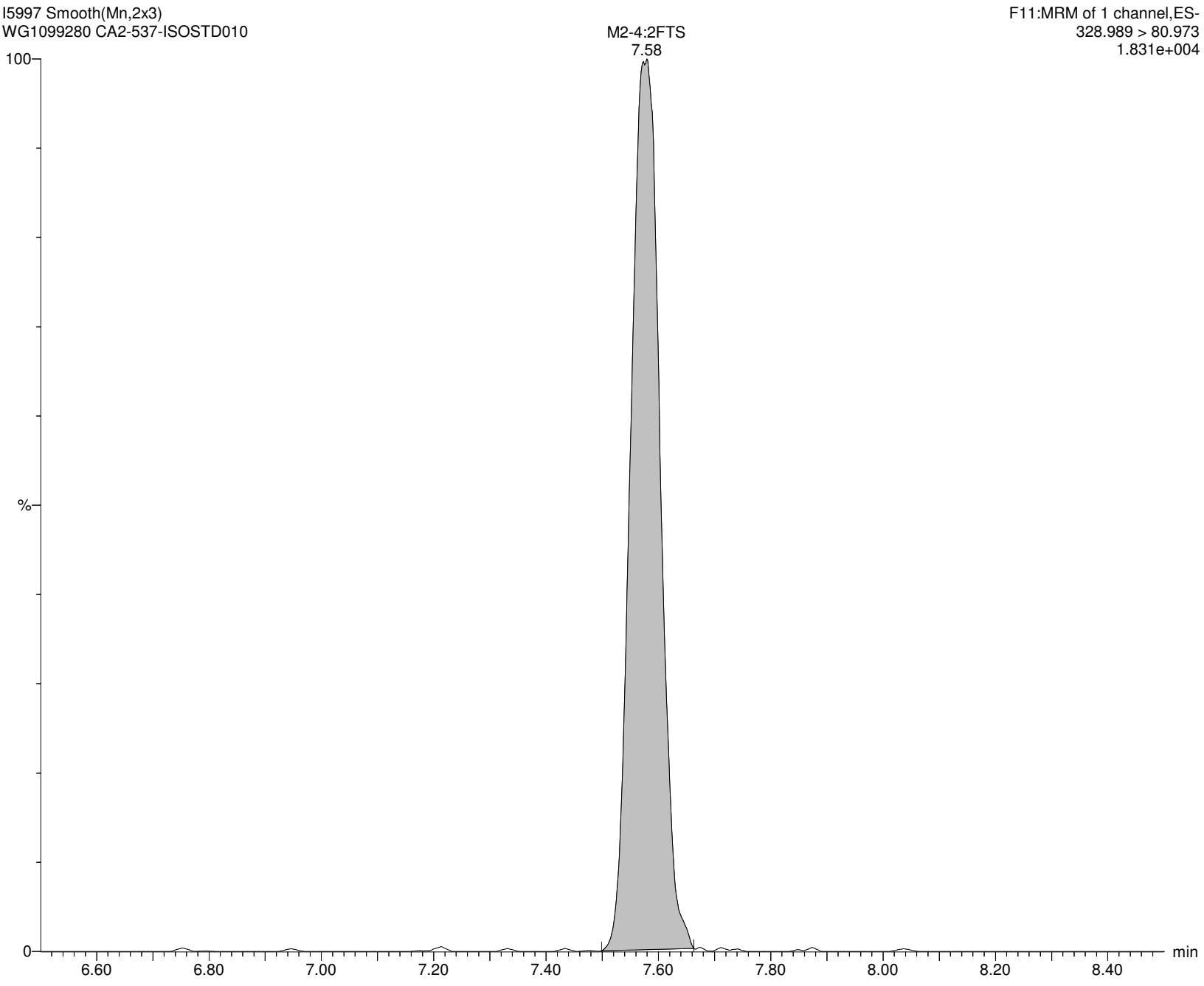

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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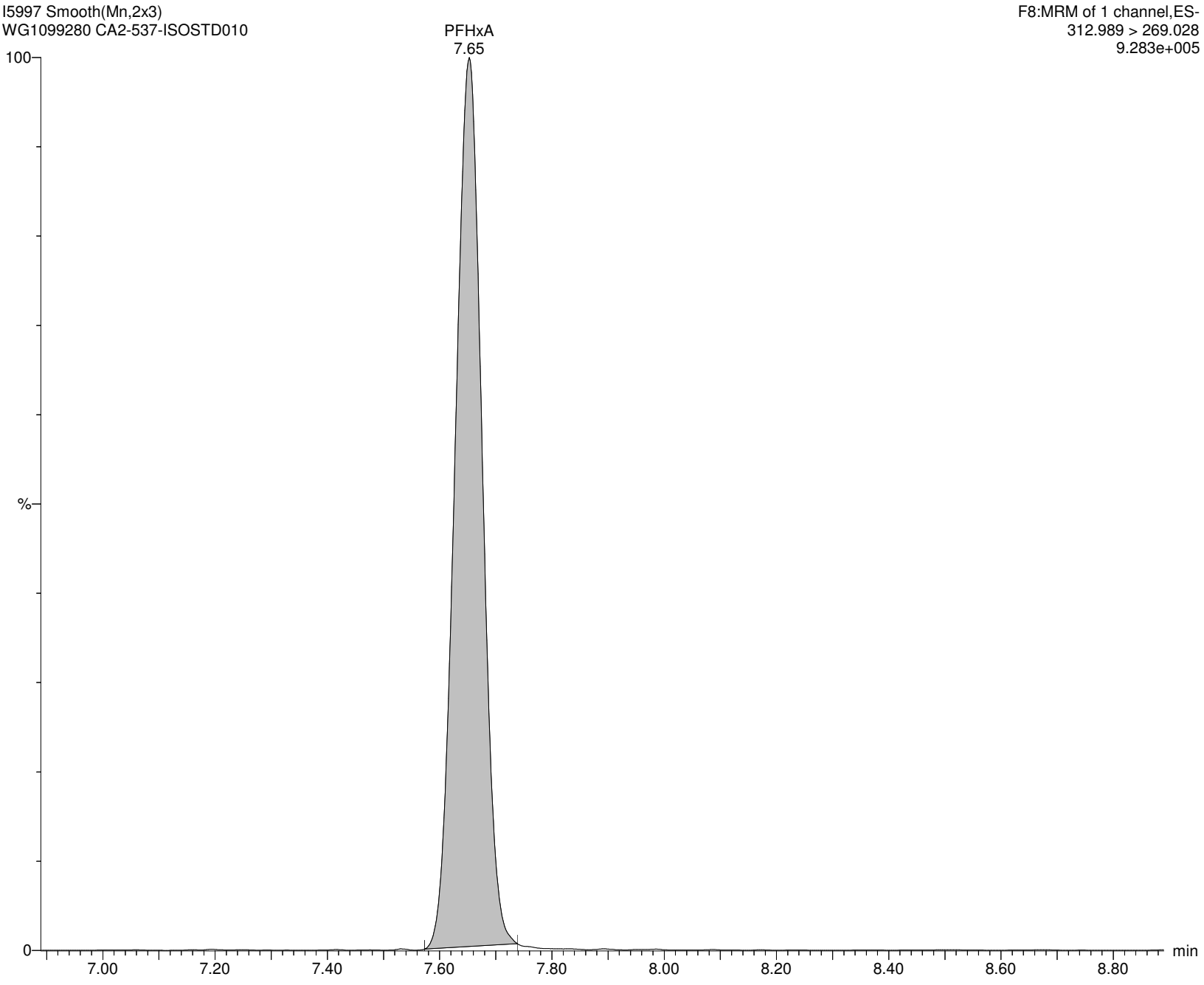

all concentration units in (ng/mL)

Alpha Analytical Inc.
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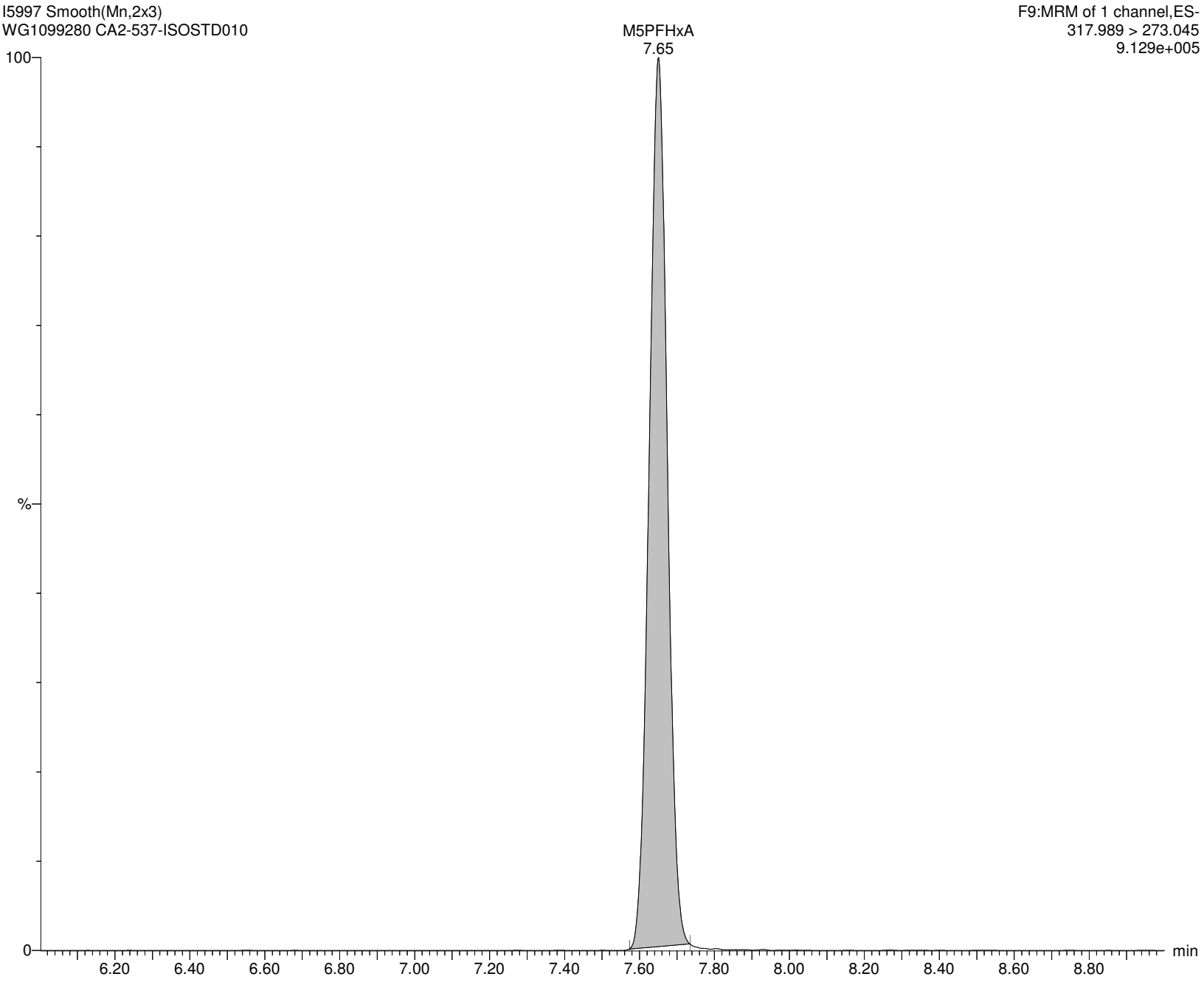

all concentration units in (ng/mL)

Alpha Analytical Inc.
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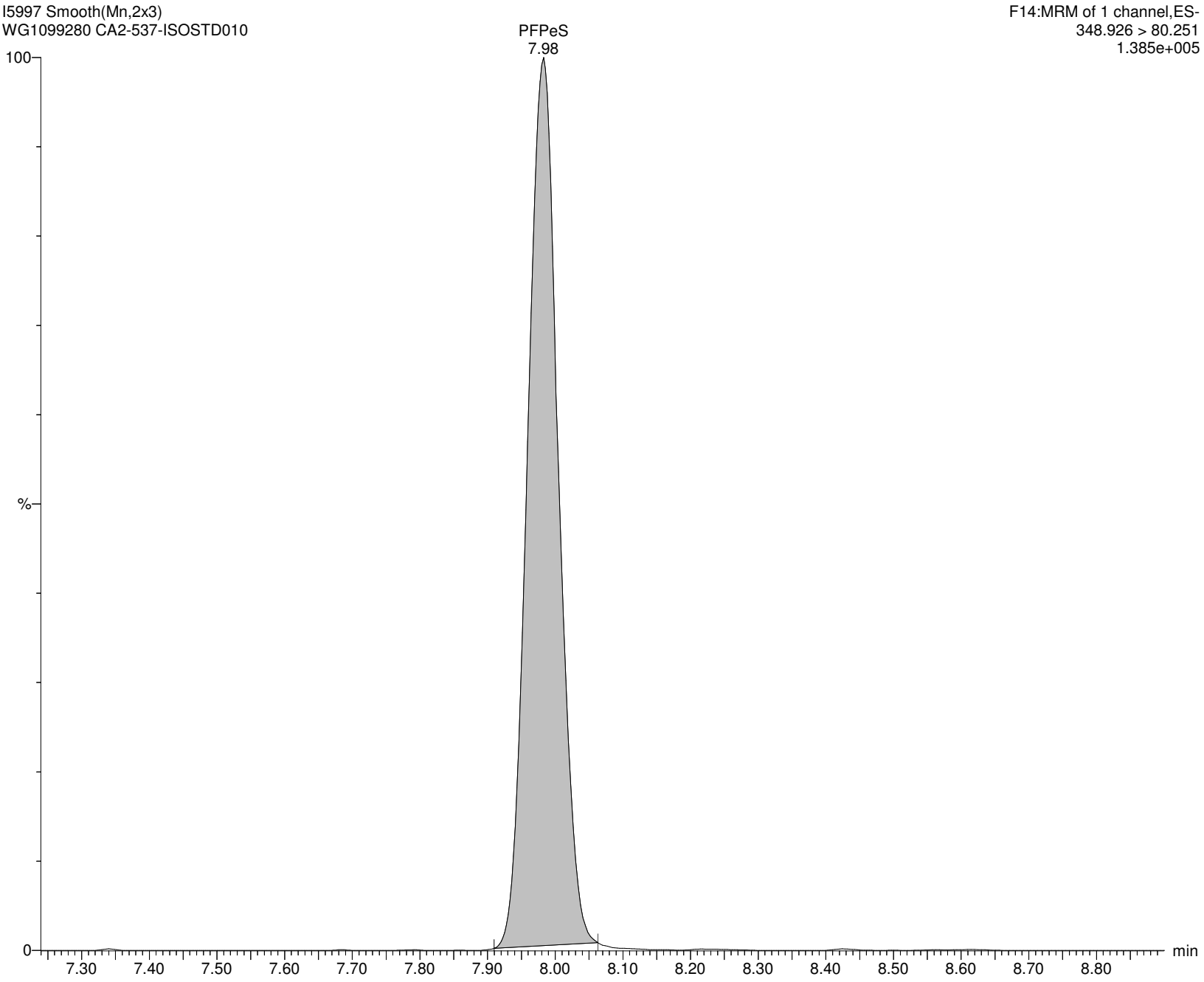

all concentration units in (ng/mL)

Alpha Analytical Inc.
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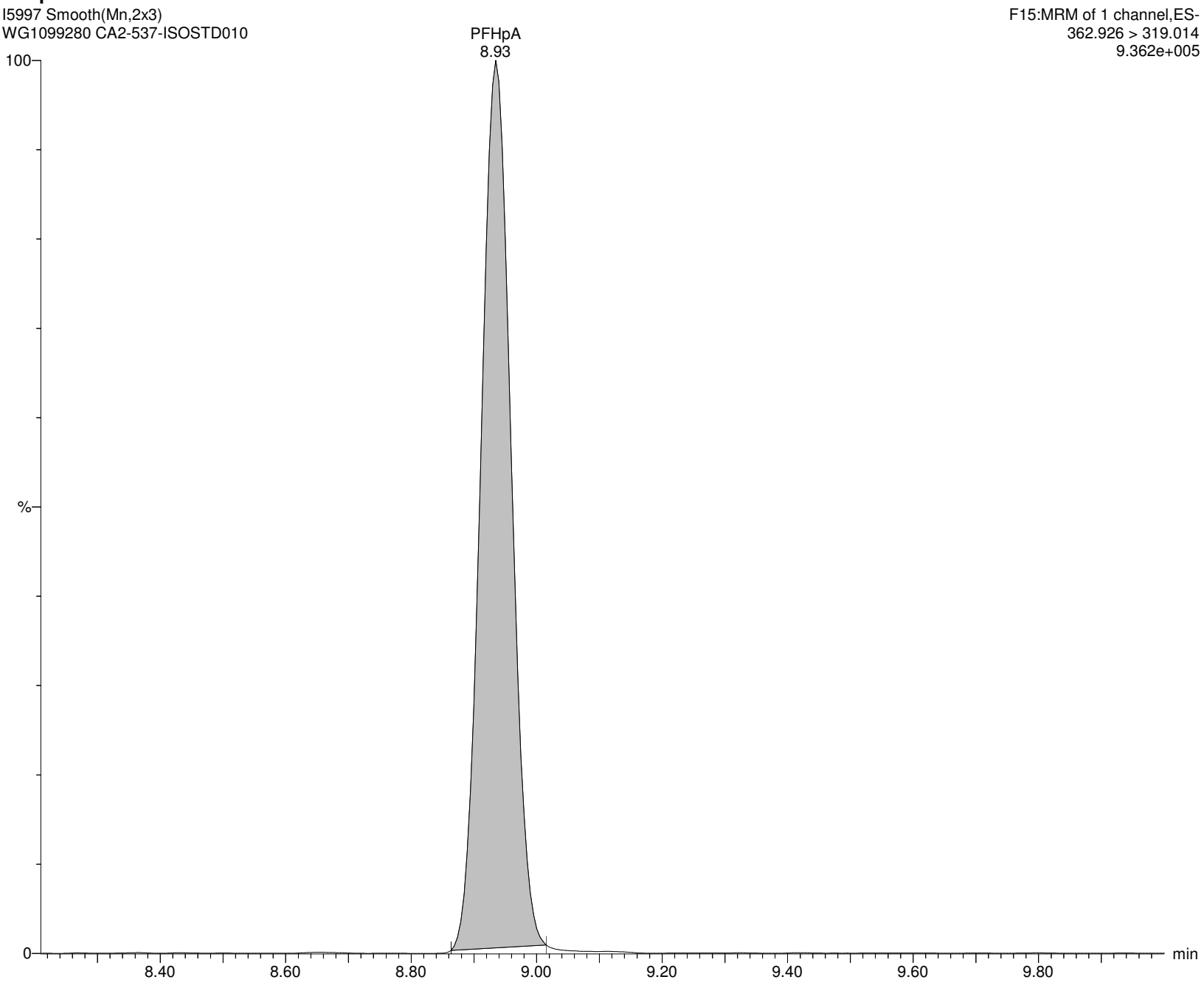

all concentration units in (ng/mL)

Alpha Analytical Inc.
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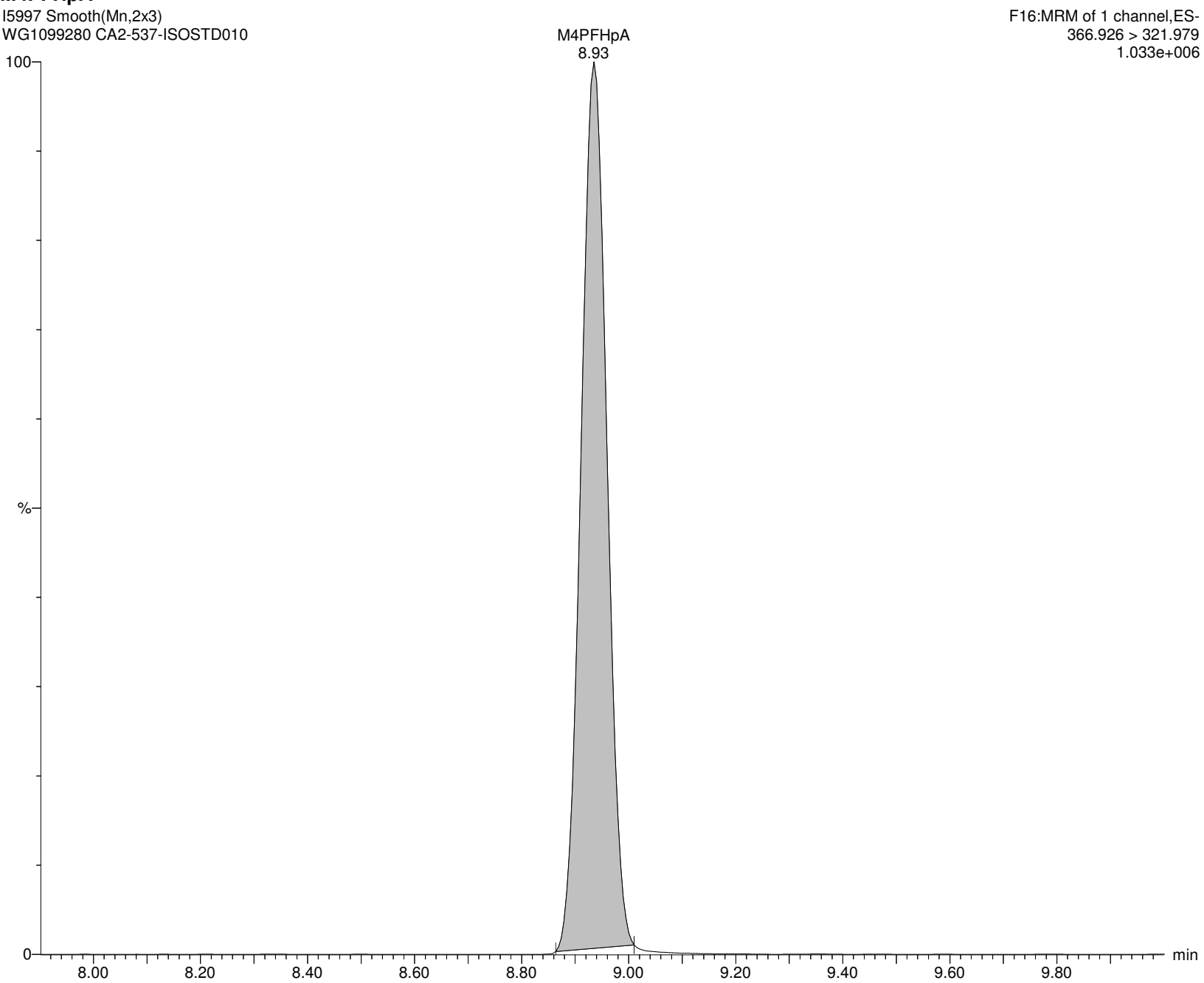

all concentration units in (ng/mL)

Alpha Analytical Inc.
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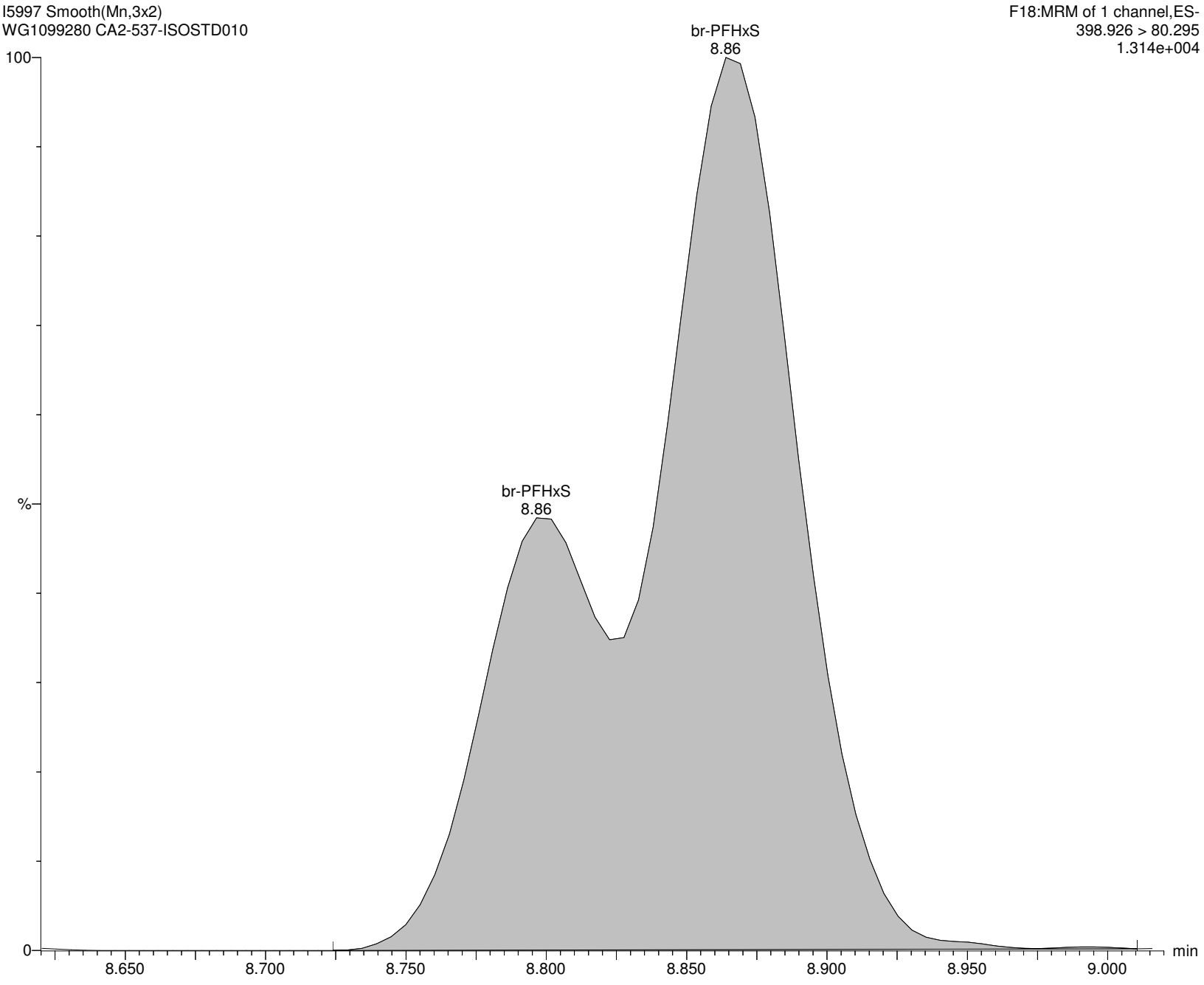

all concentration units in (ng/mL)

Alpha Analytical Inc.
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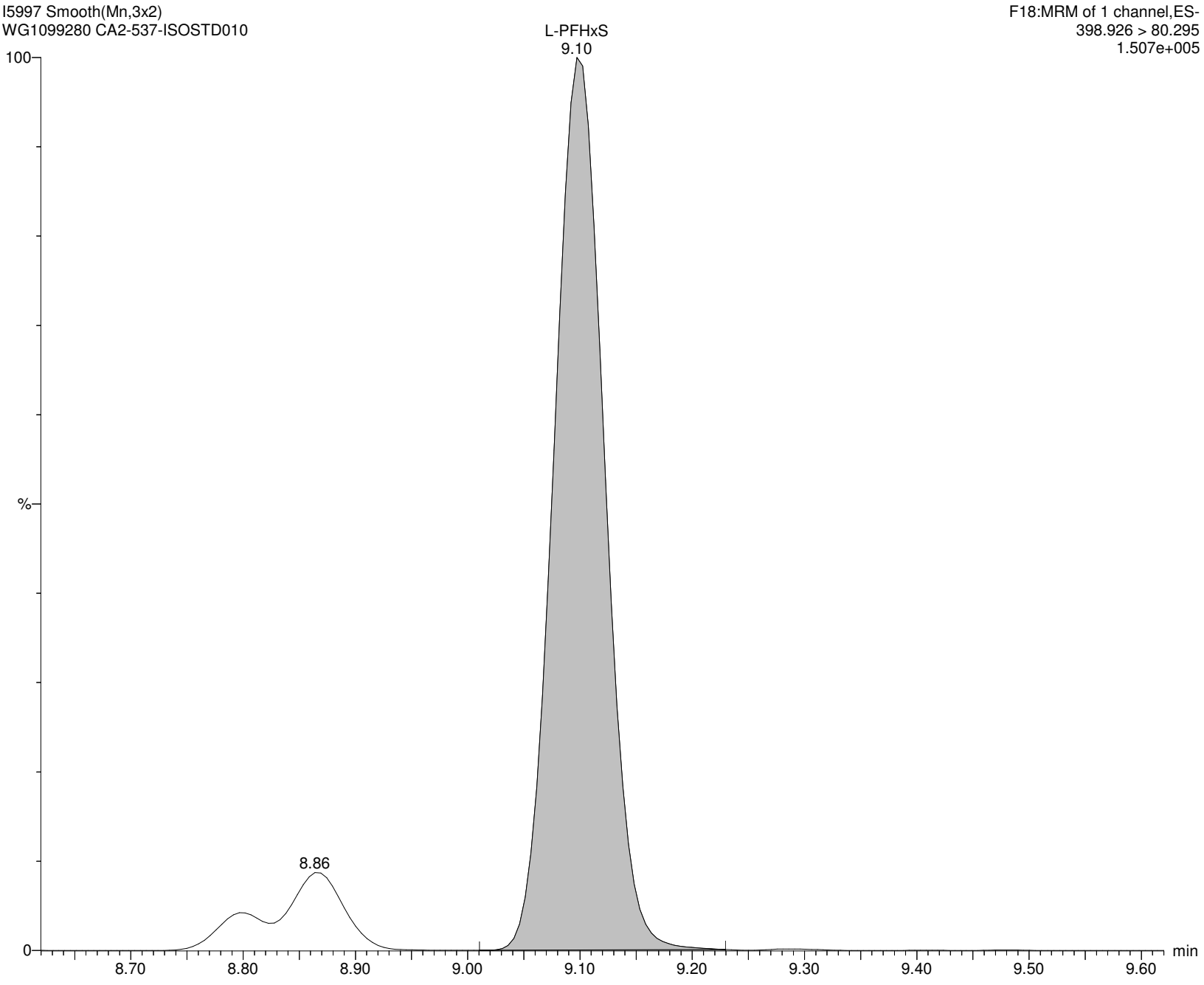

all concentration units in (ng/mL)

Alpha Analytical Inc.
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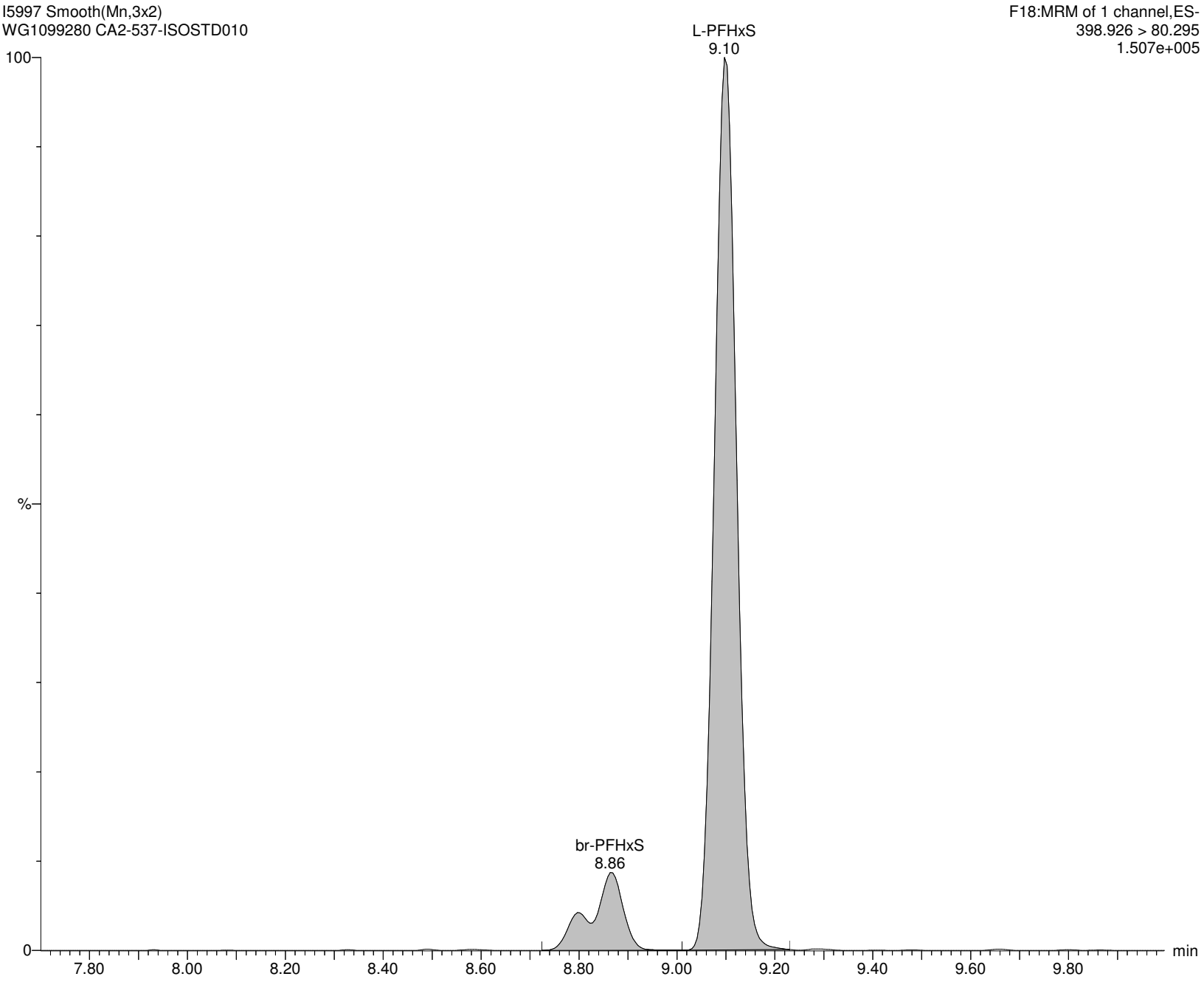

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I5997
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Date: 21-Mar-2018
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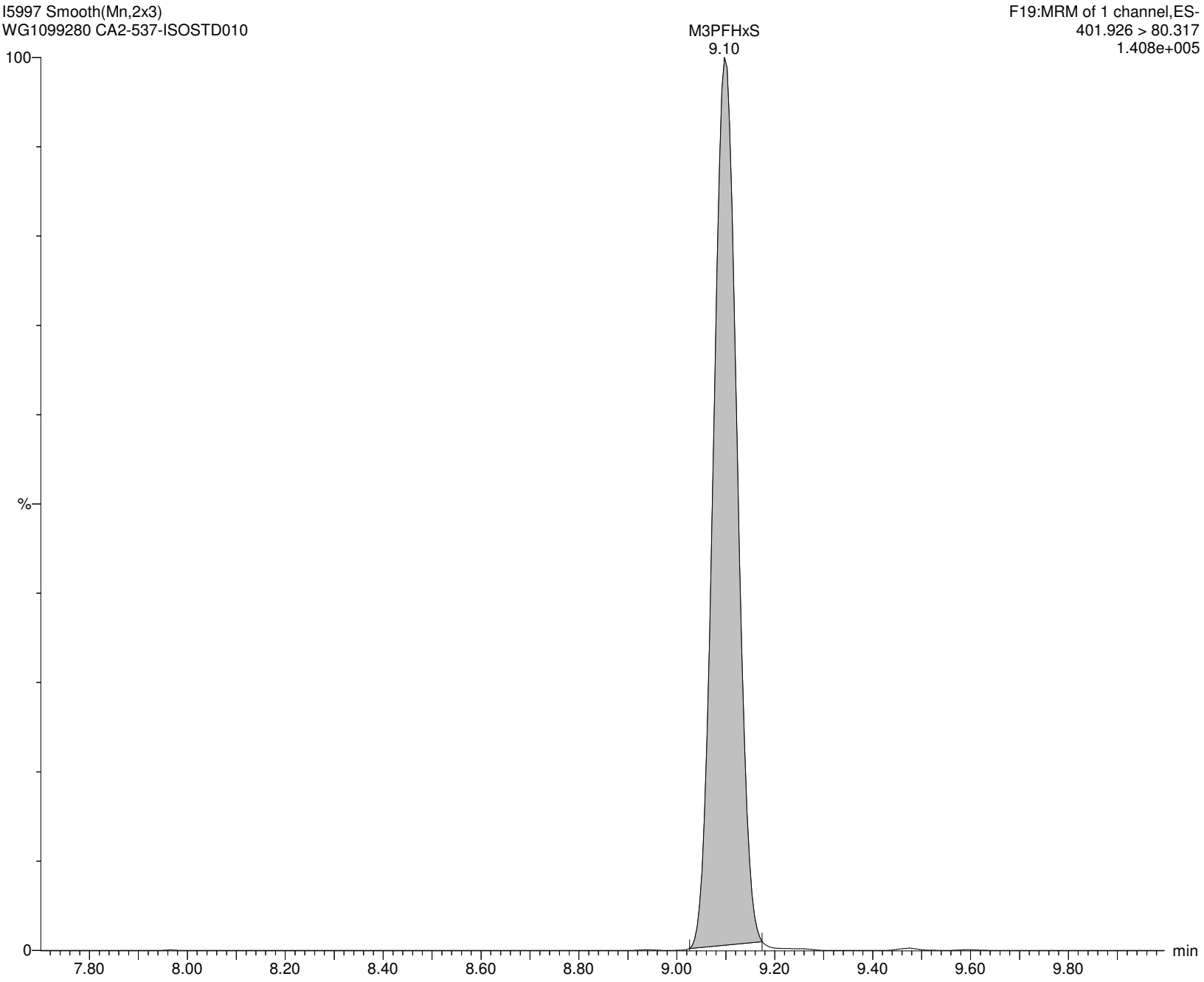

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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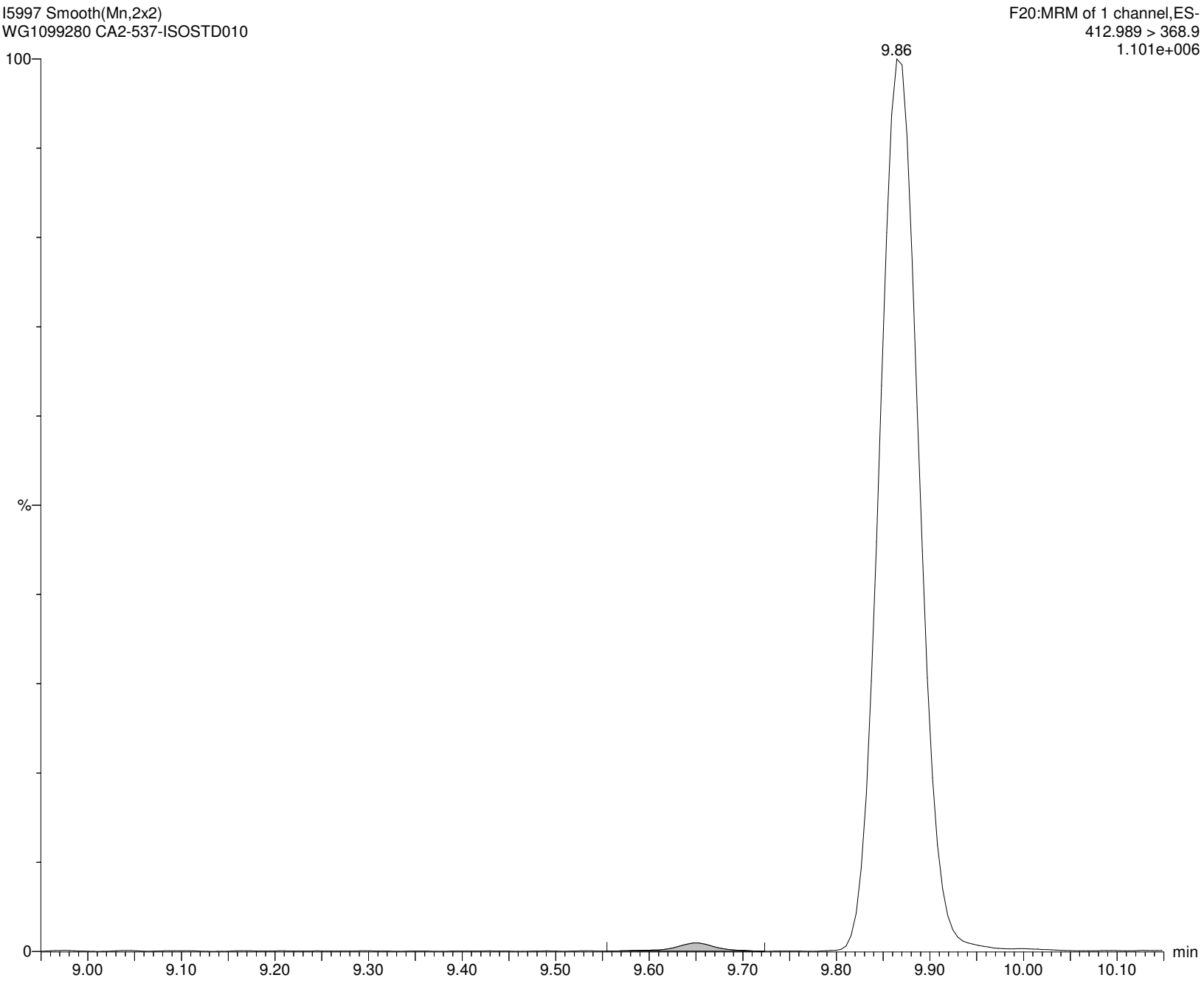

all concentration units in (ng/mL)

Alpha Analytical Inc.
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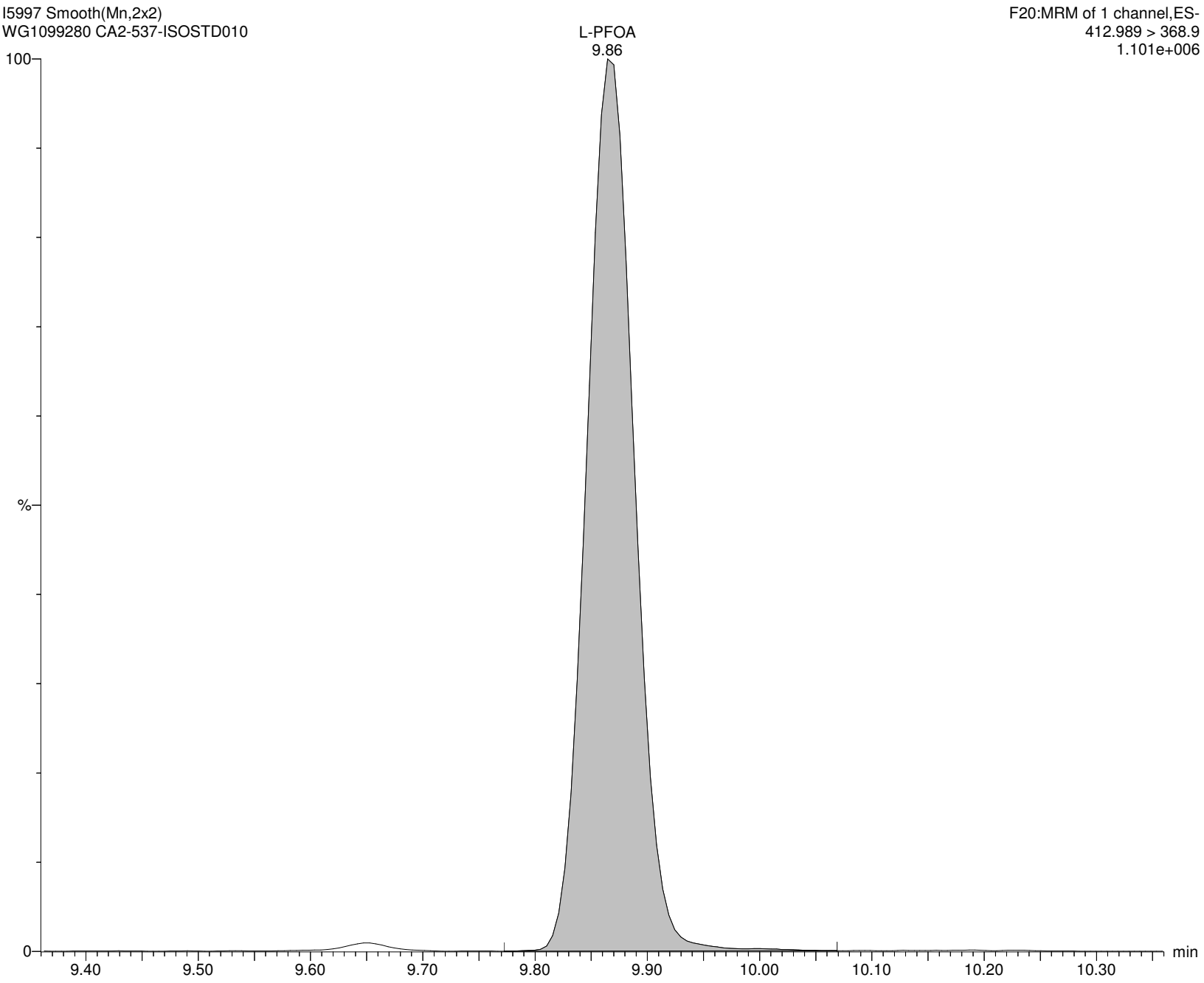
L-PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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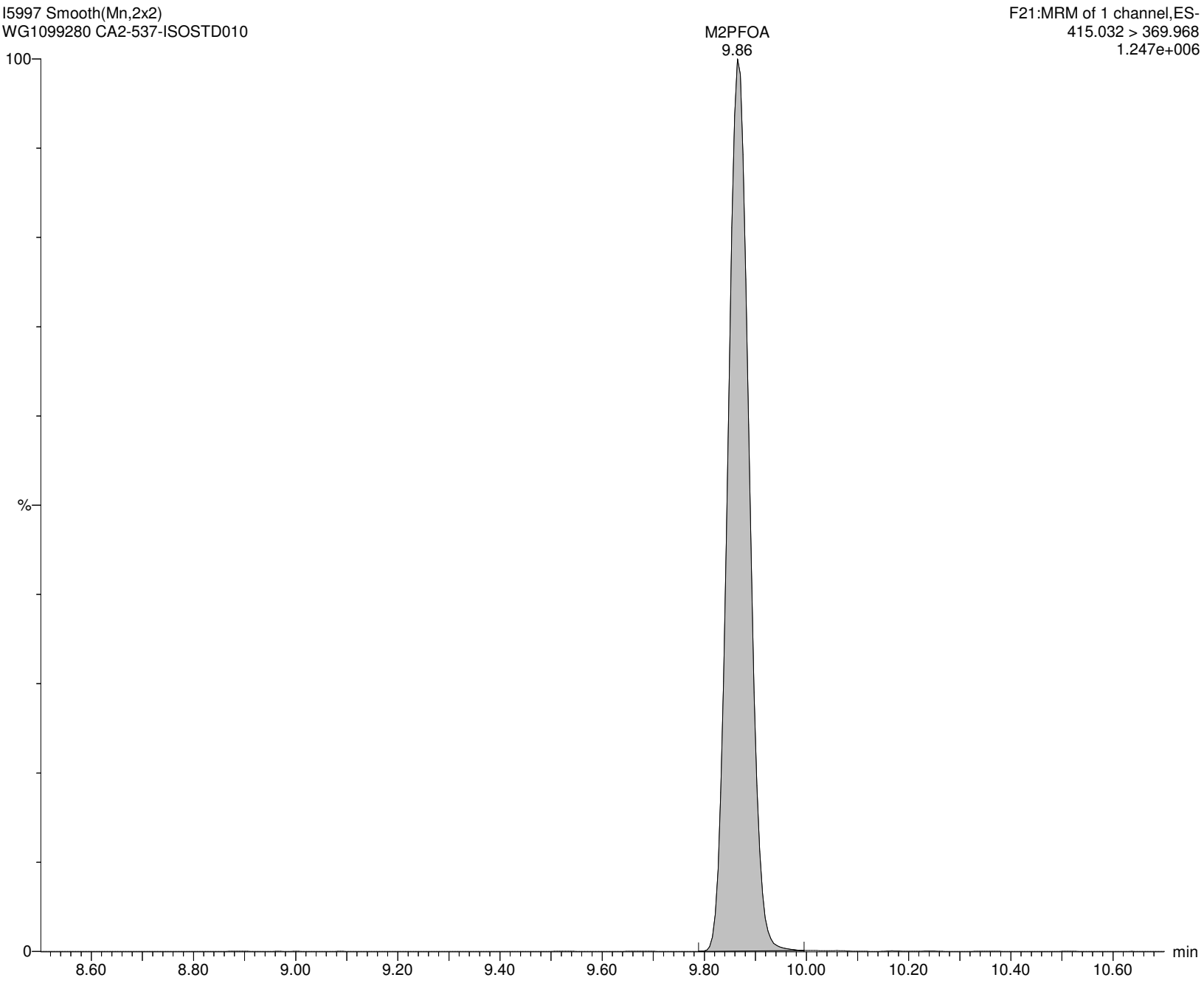

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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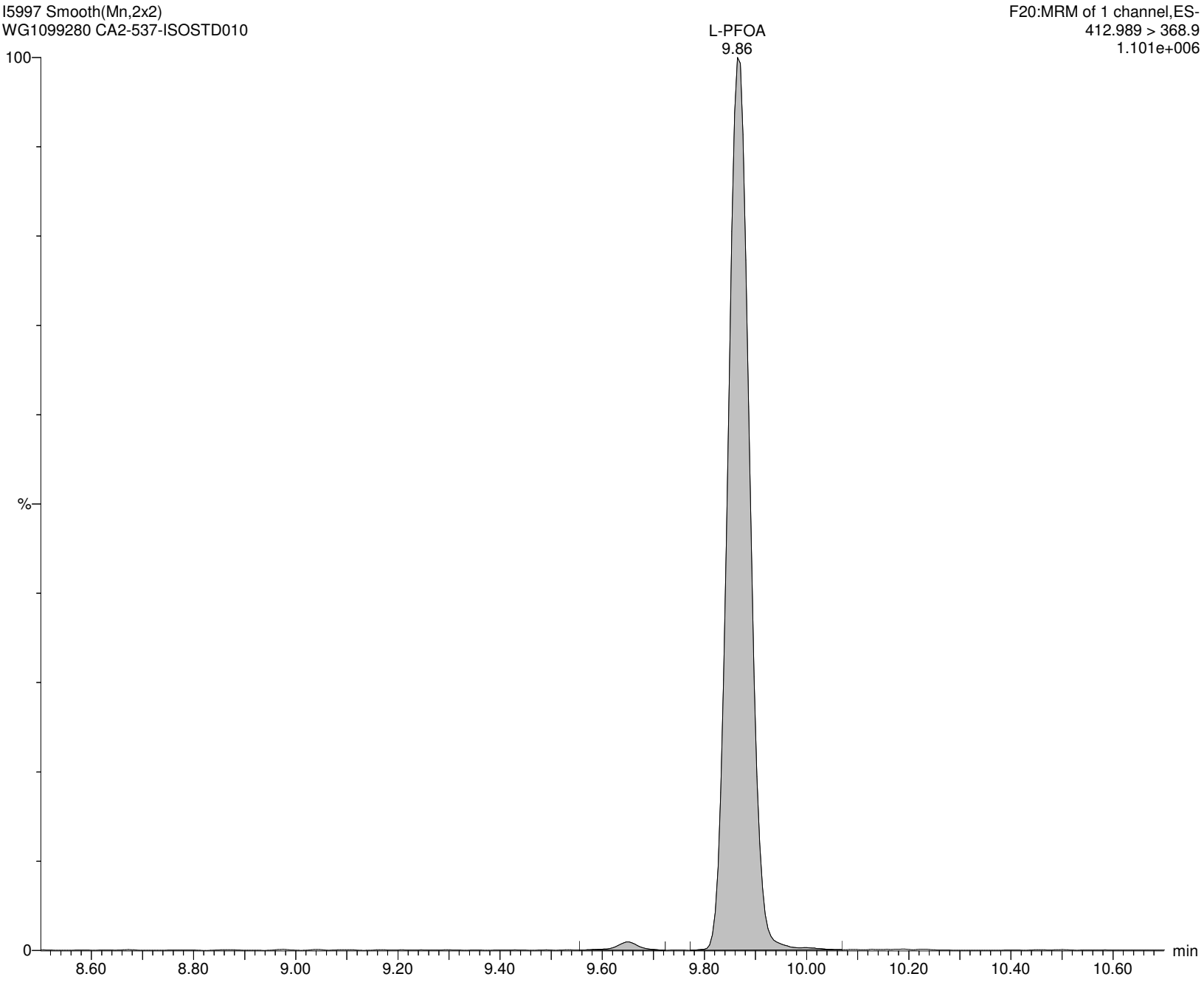

all concentration units in (ng/mL)

Alpha Analytical Inc.
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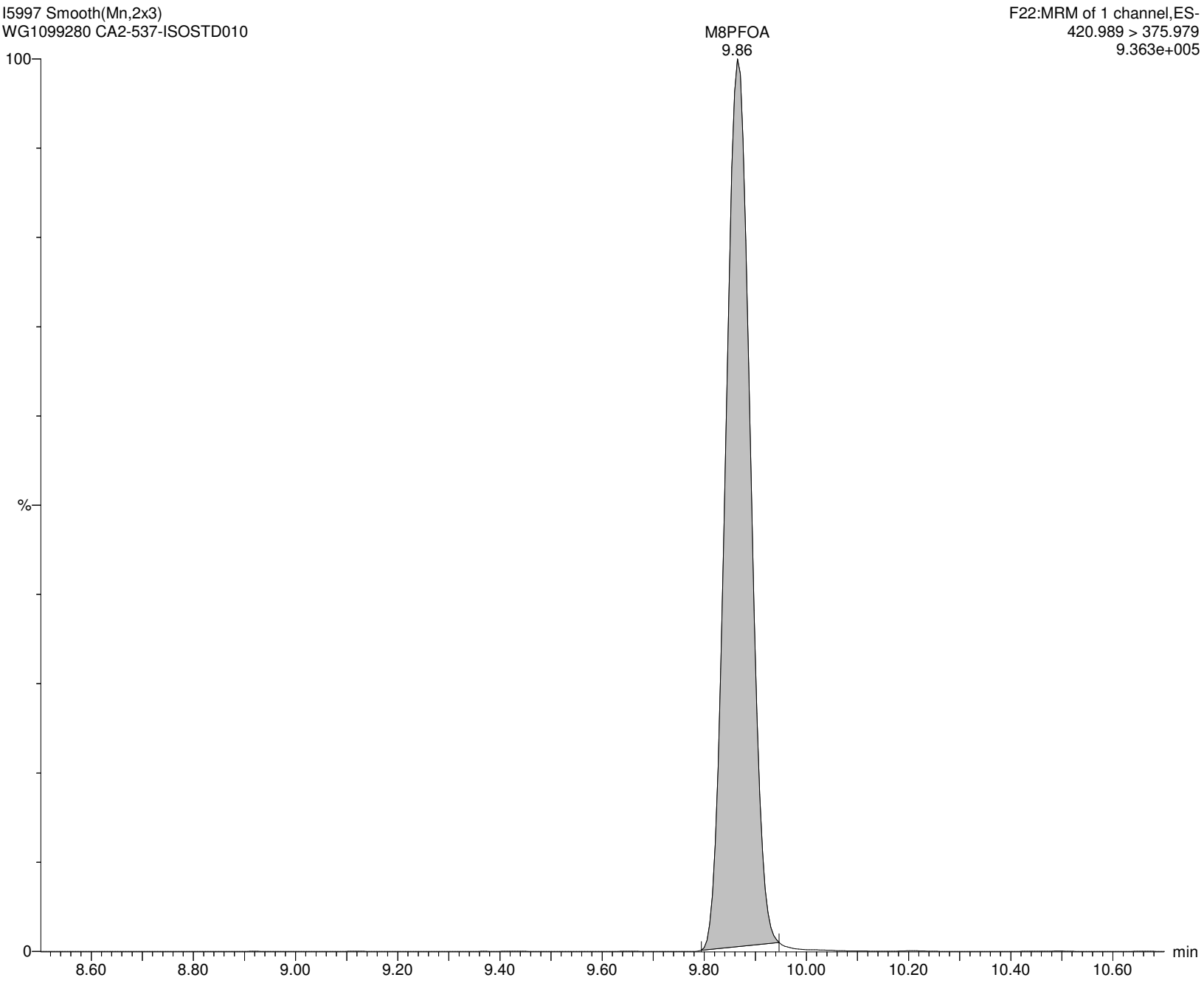

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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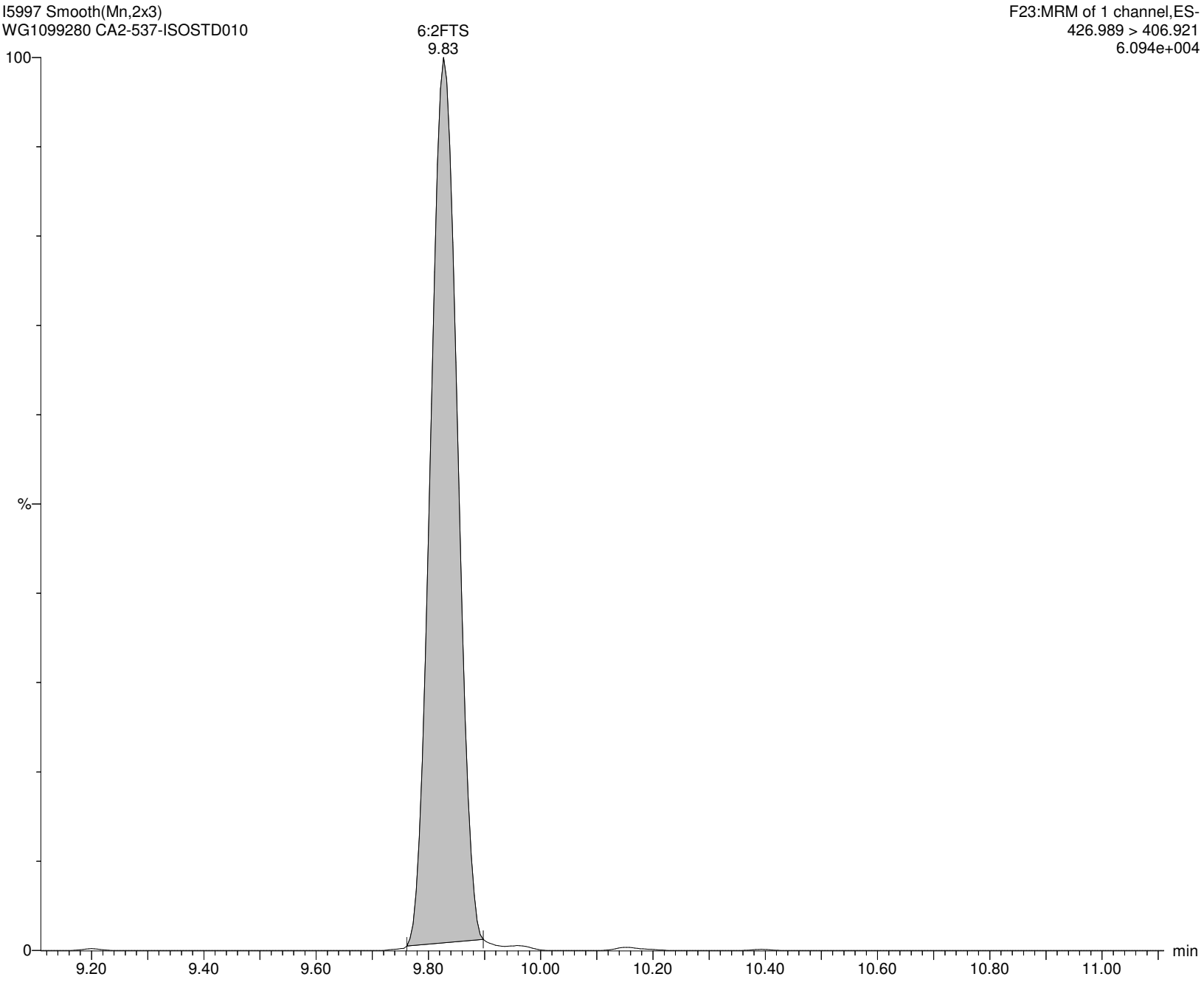
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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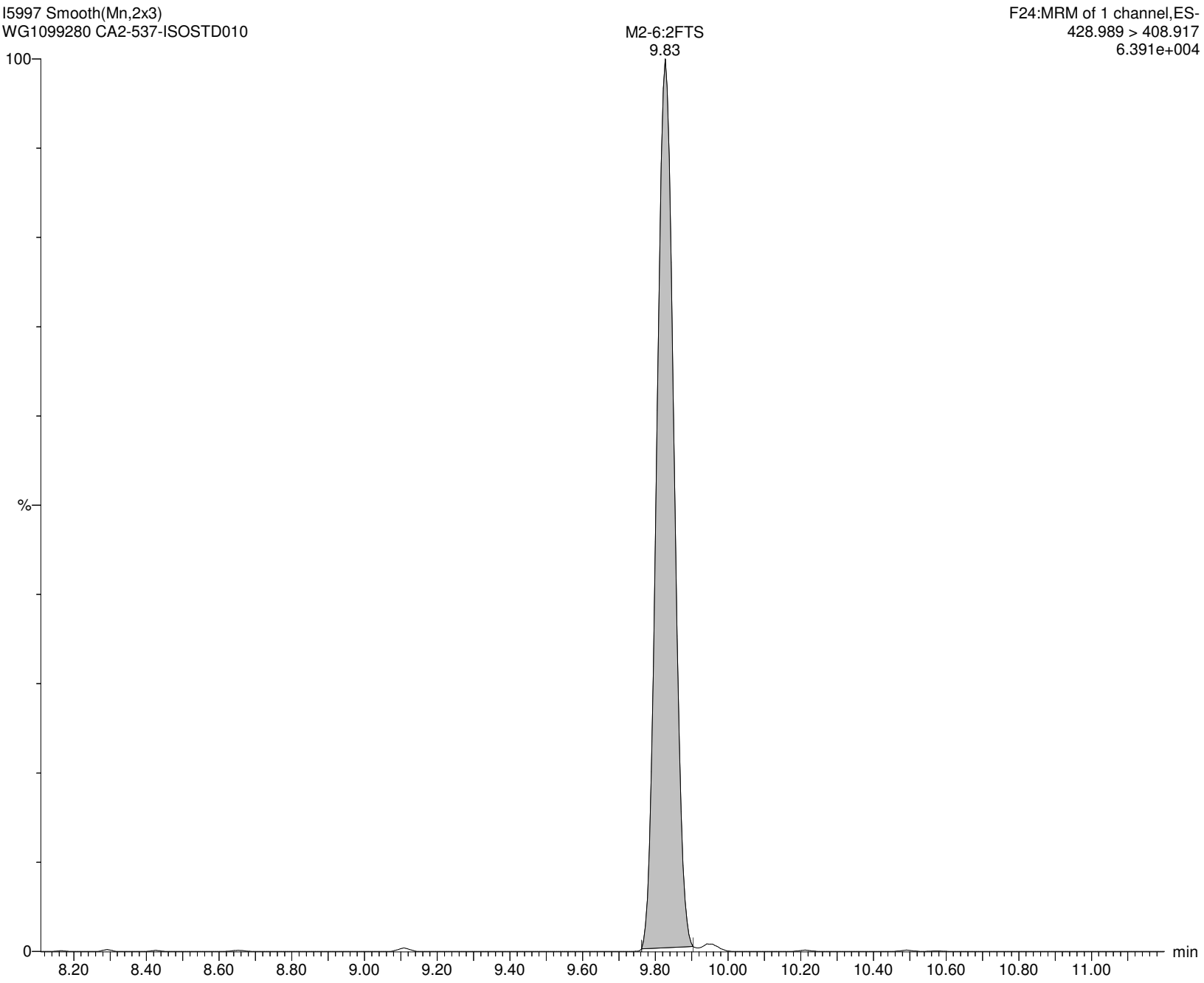
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
Time: 18:21:20
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User: LCMS01:PB
Vial: 2:B,2
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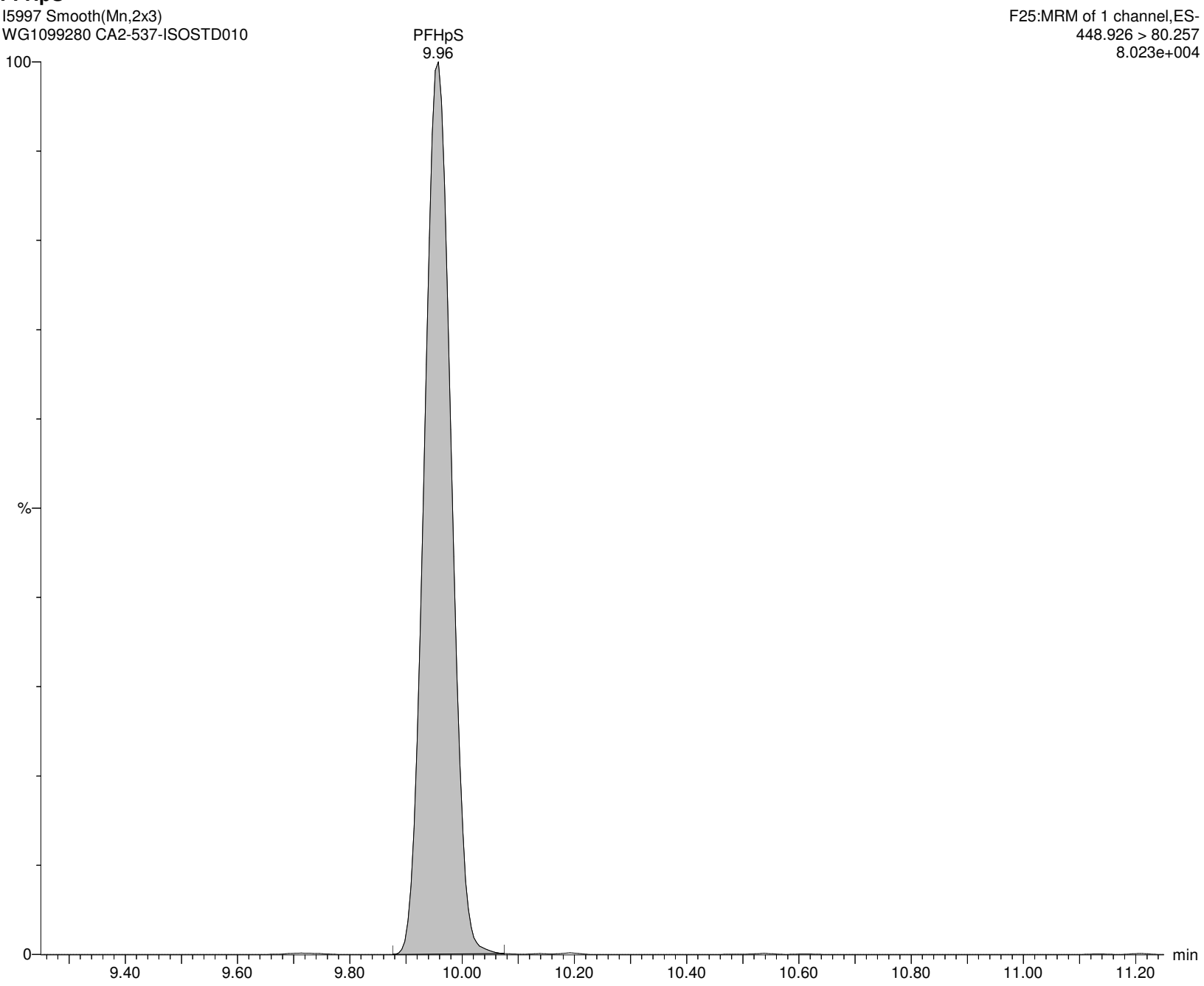

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:47:07 Eastern Daylight Time

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ID: CA2-537-ISOSTD010
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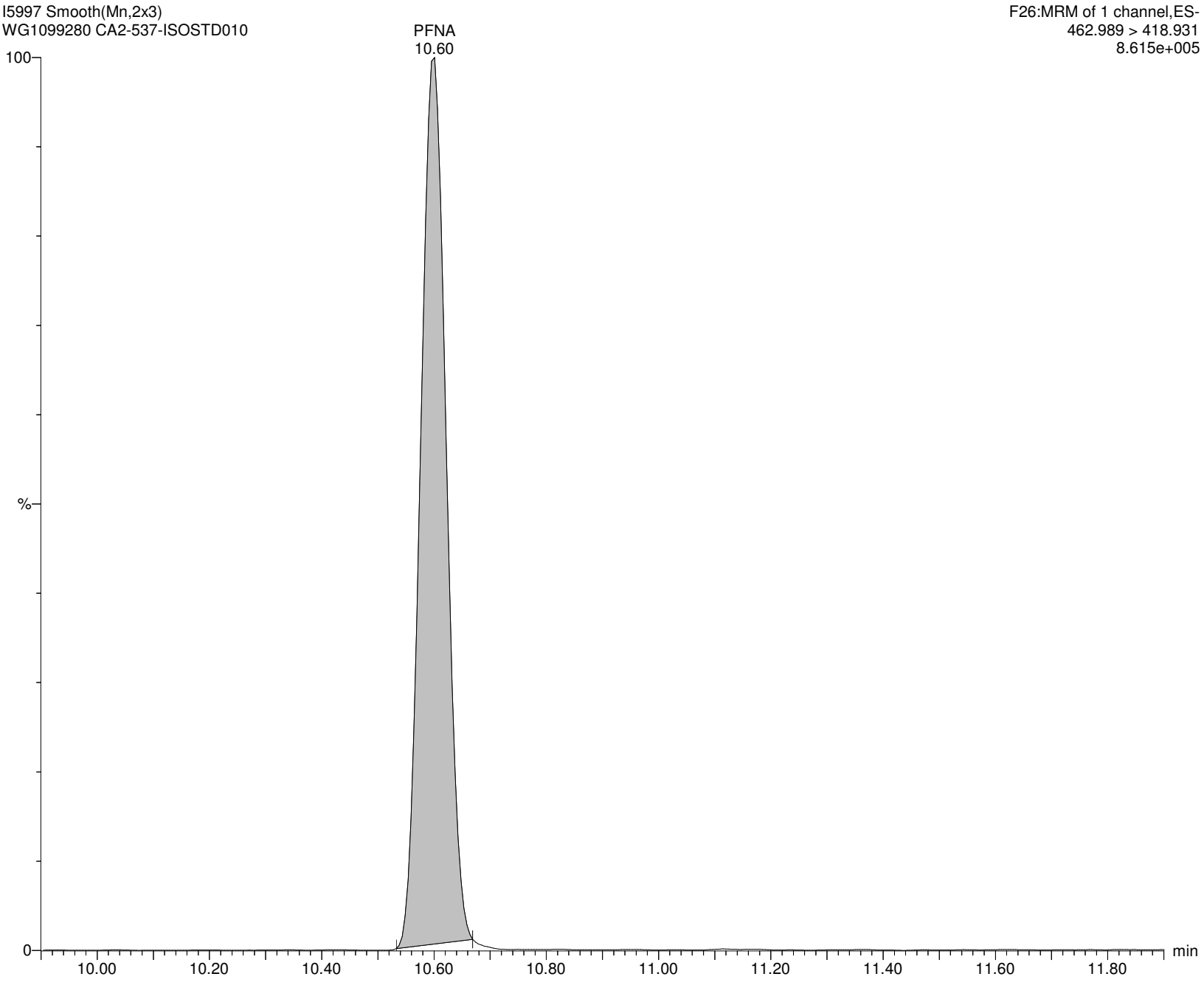

all concentration units in (ng/mL)

Alpha Analytical Inc.
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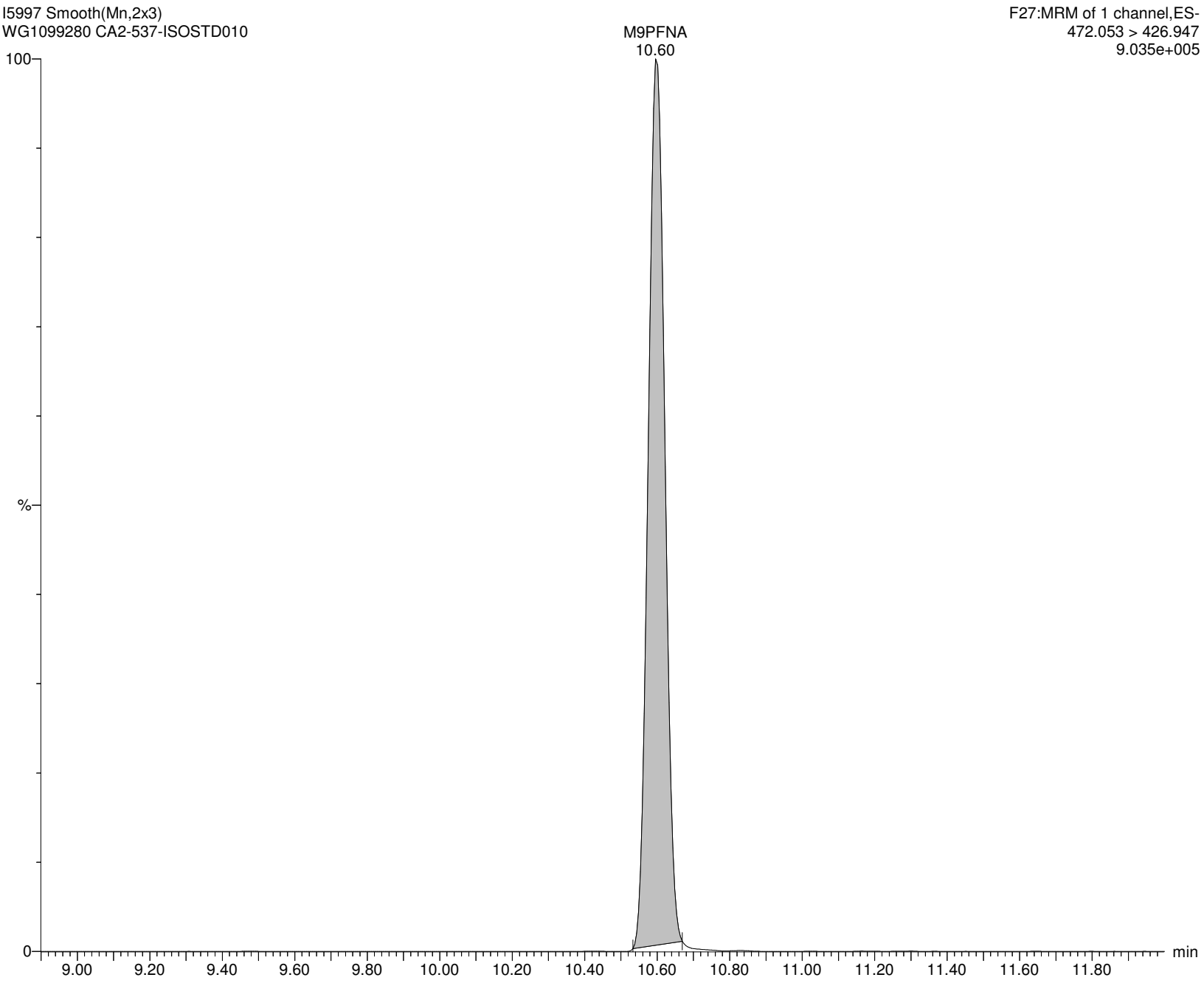

all concentration units in (ng/mL)

Alpha Analytical Inc.
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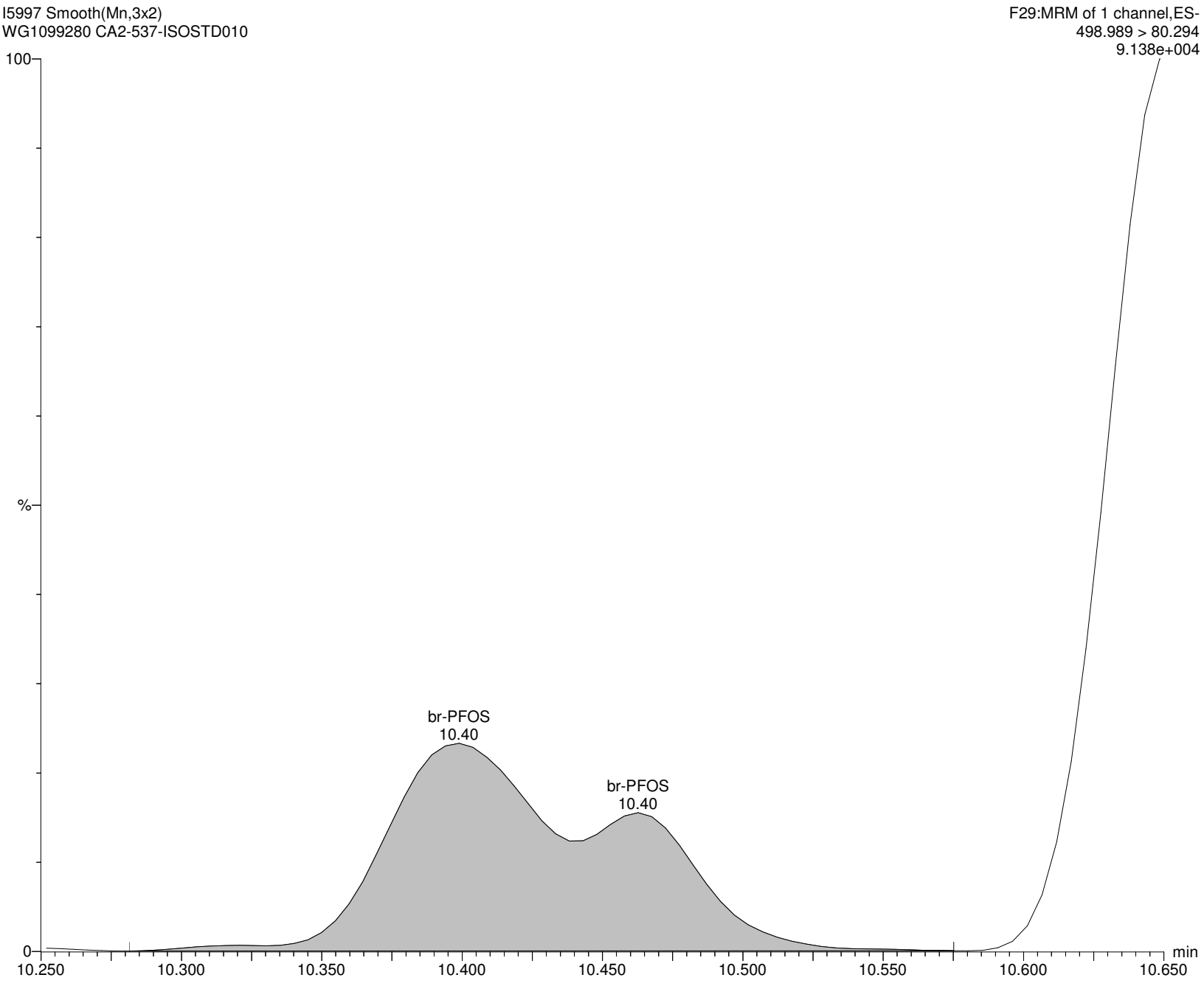

all concentration units in (ng/mL)

Alpha Analytical Inc.
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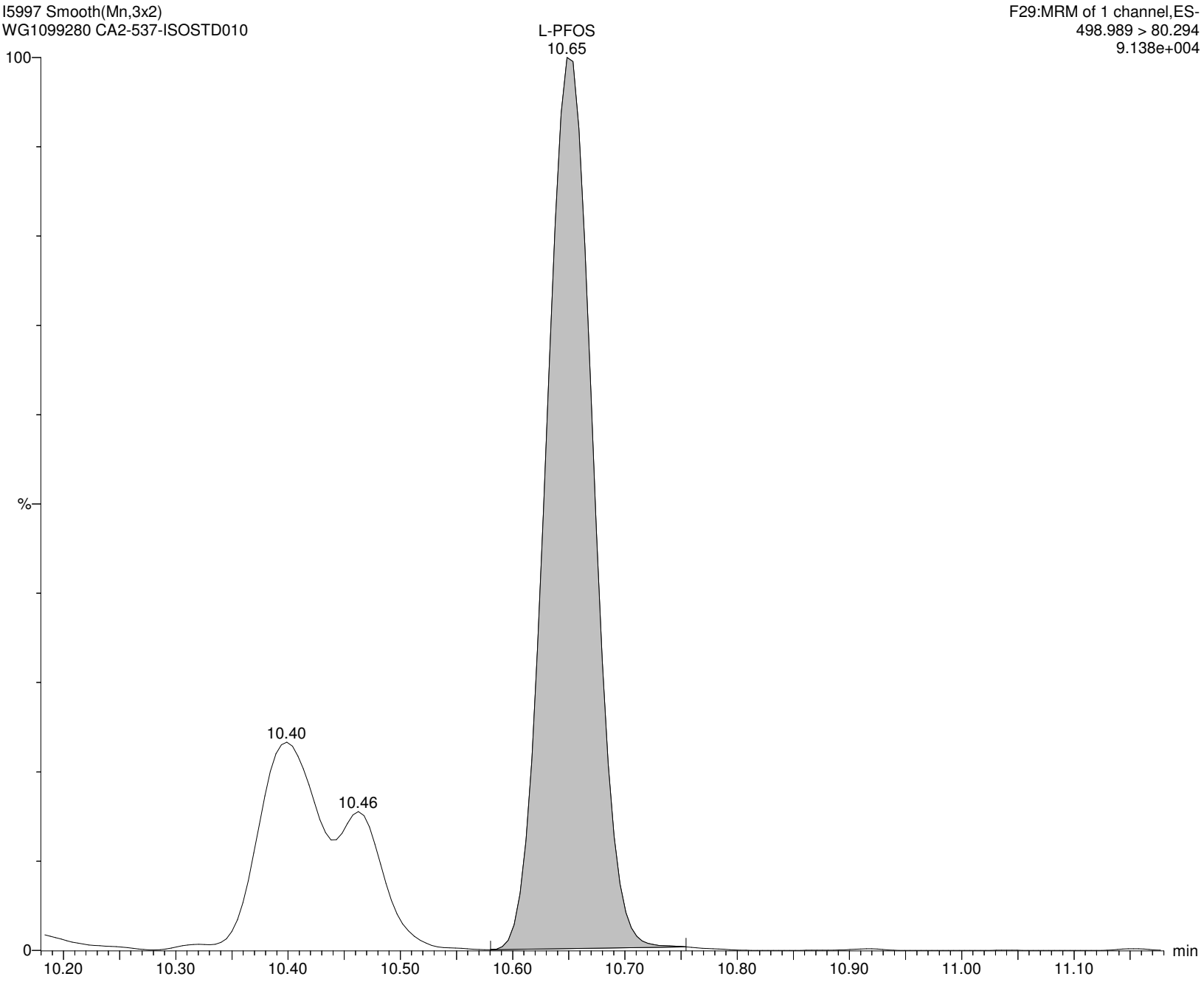

all concentration units in (ng/mL)

Alpha Analytical Inc.
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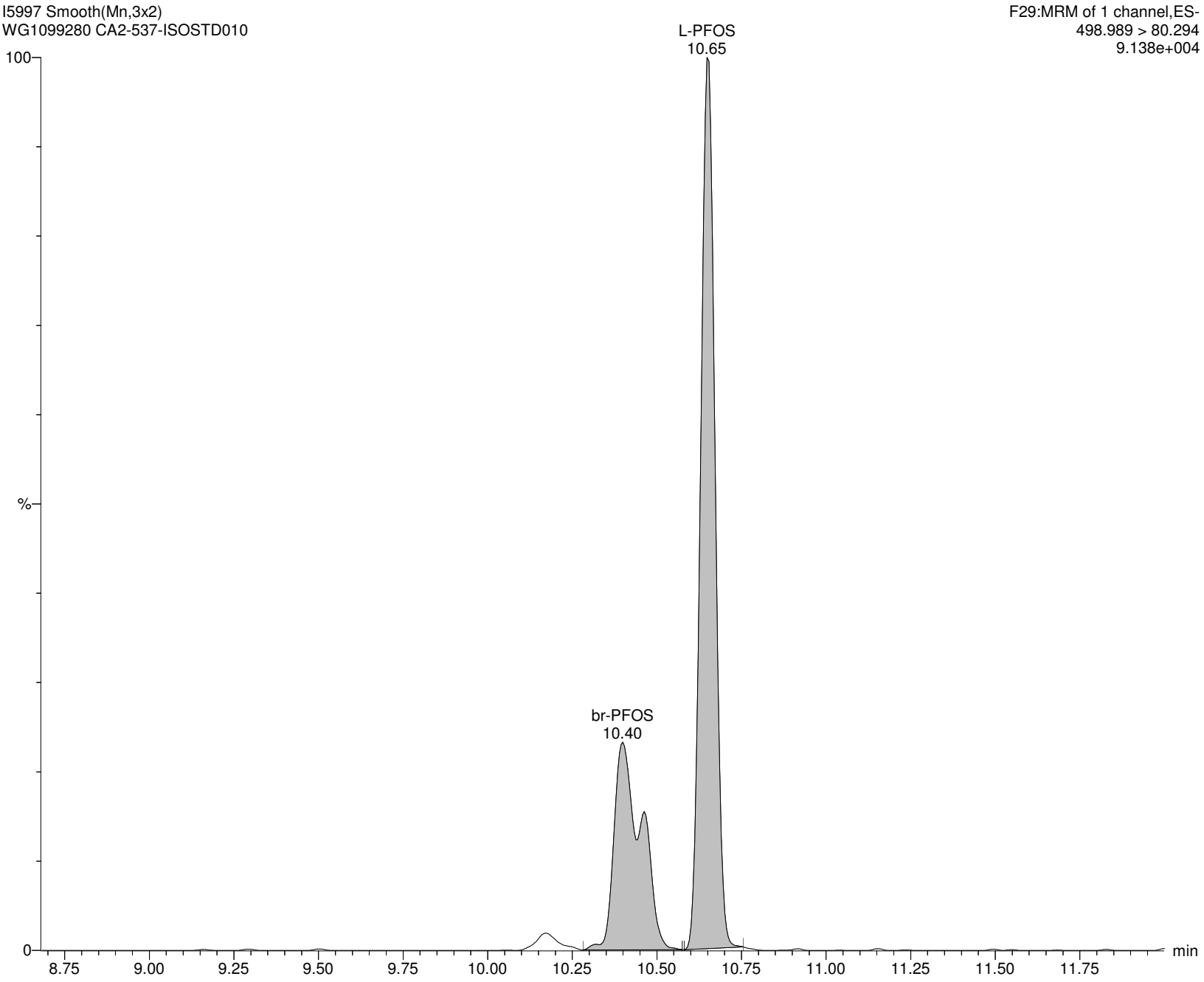

all concentration units in (ng/mL)

Alpha Analytical Inc.
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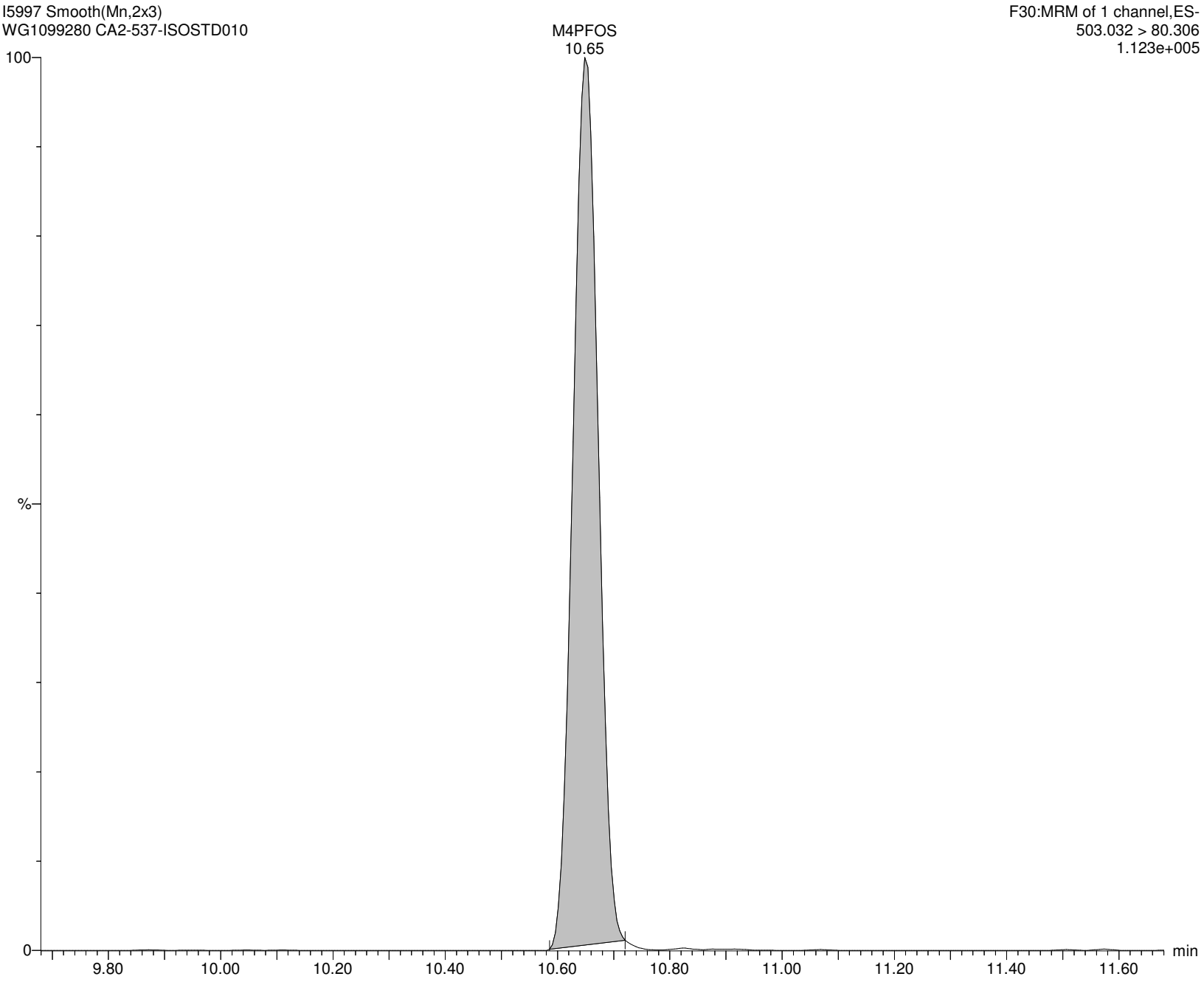

all concentration units in (ng/mL)

Alpha Analytical Inc.
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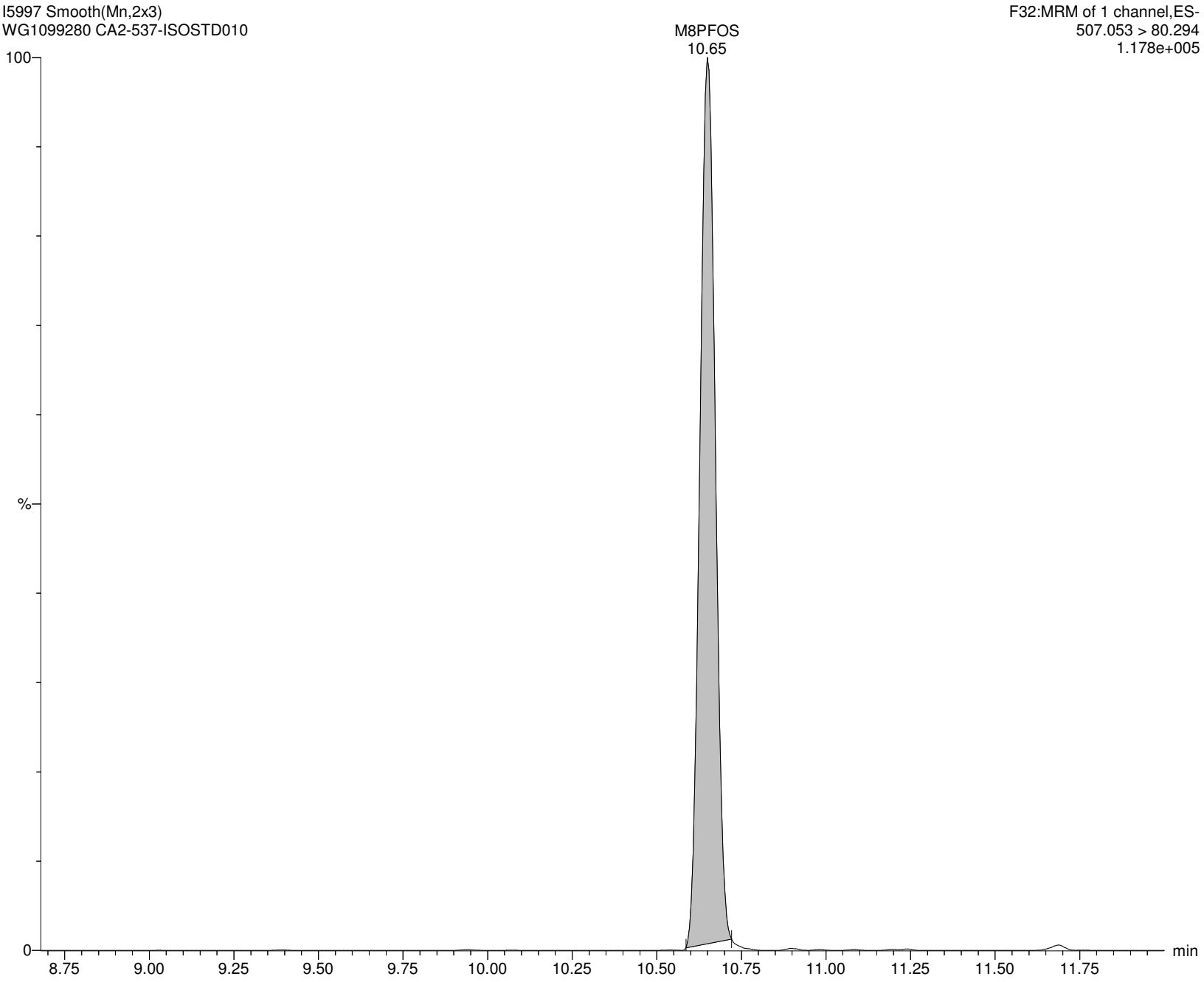

all concentration units in (ng/mL)

Alpha Analytical Inc.
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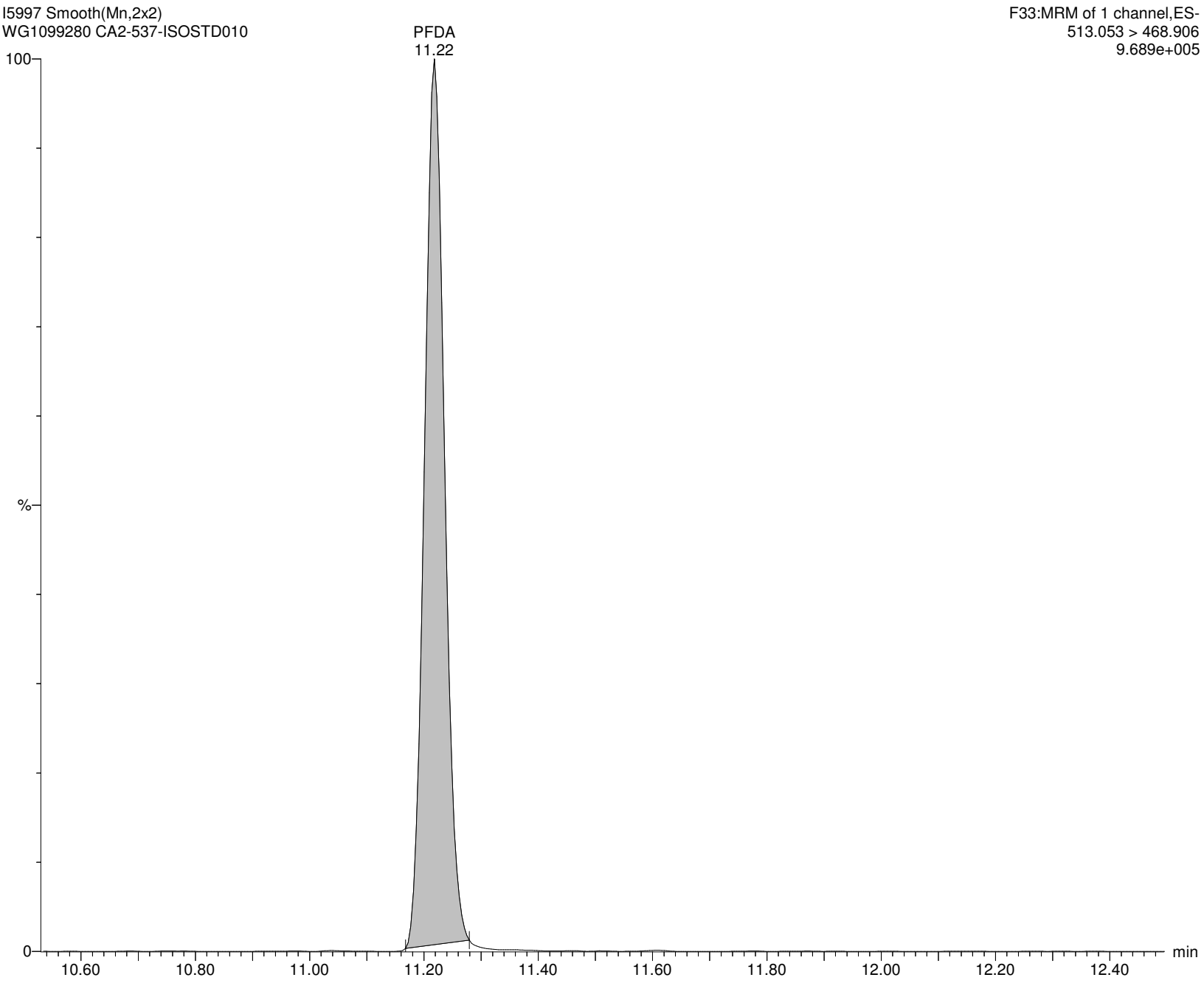

all concentration units in (ng/mL)

Alpha Analytical Inc.
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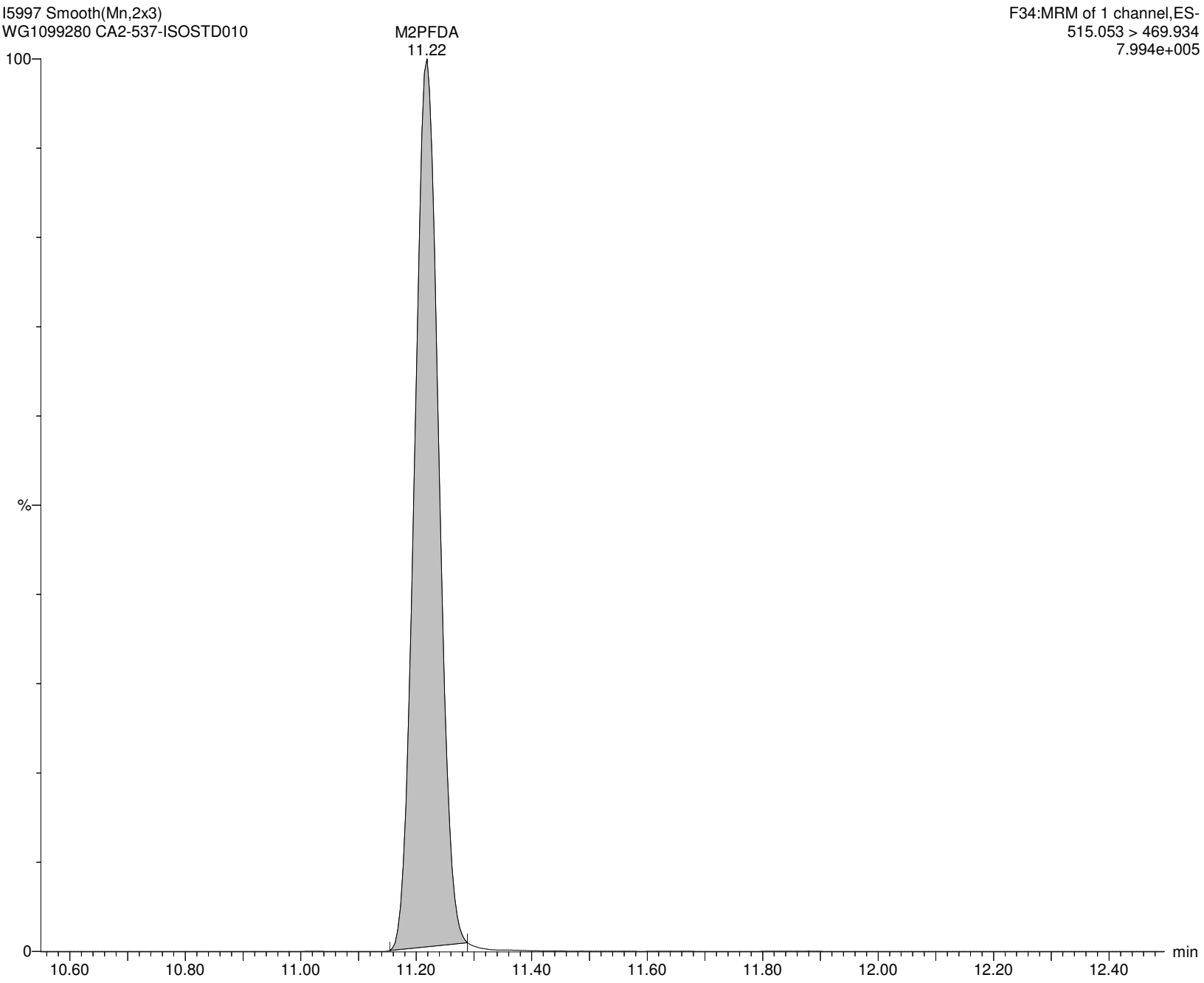

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 21-Mar-2018
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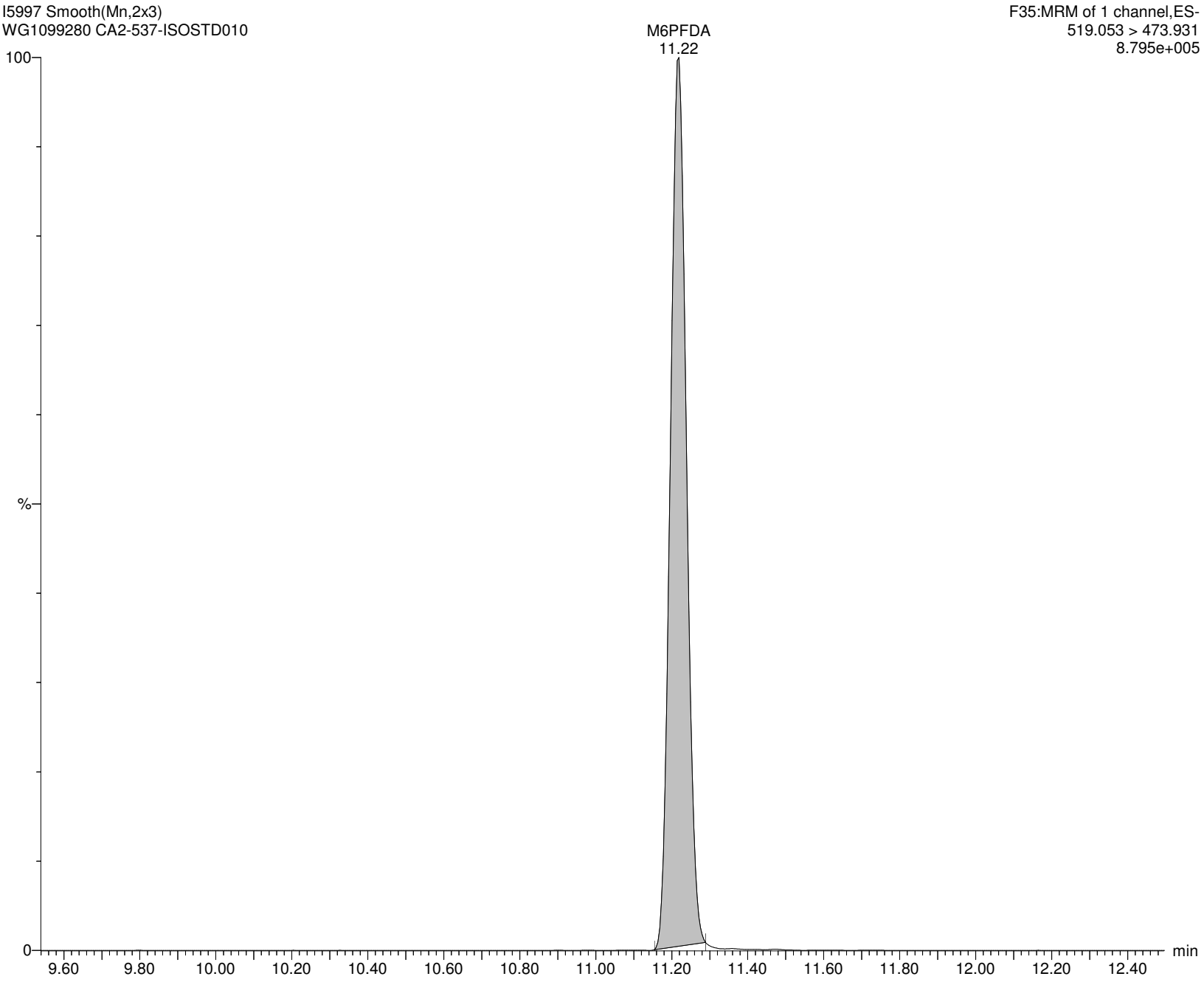

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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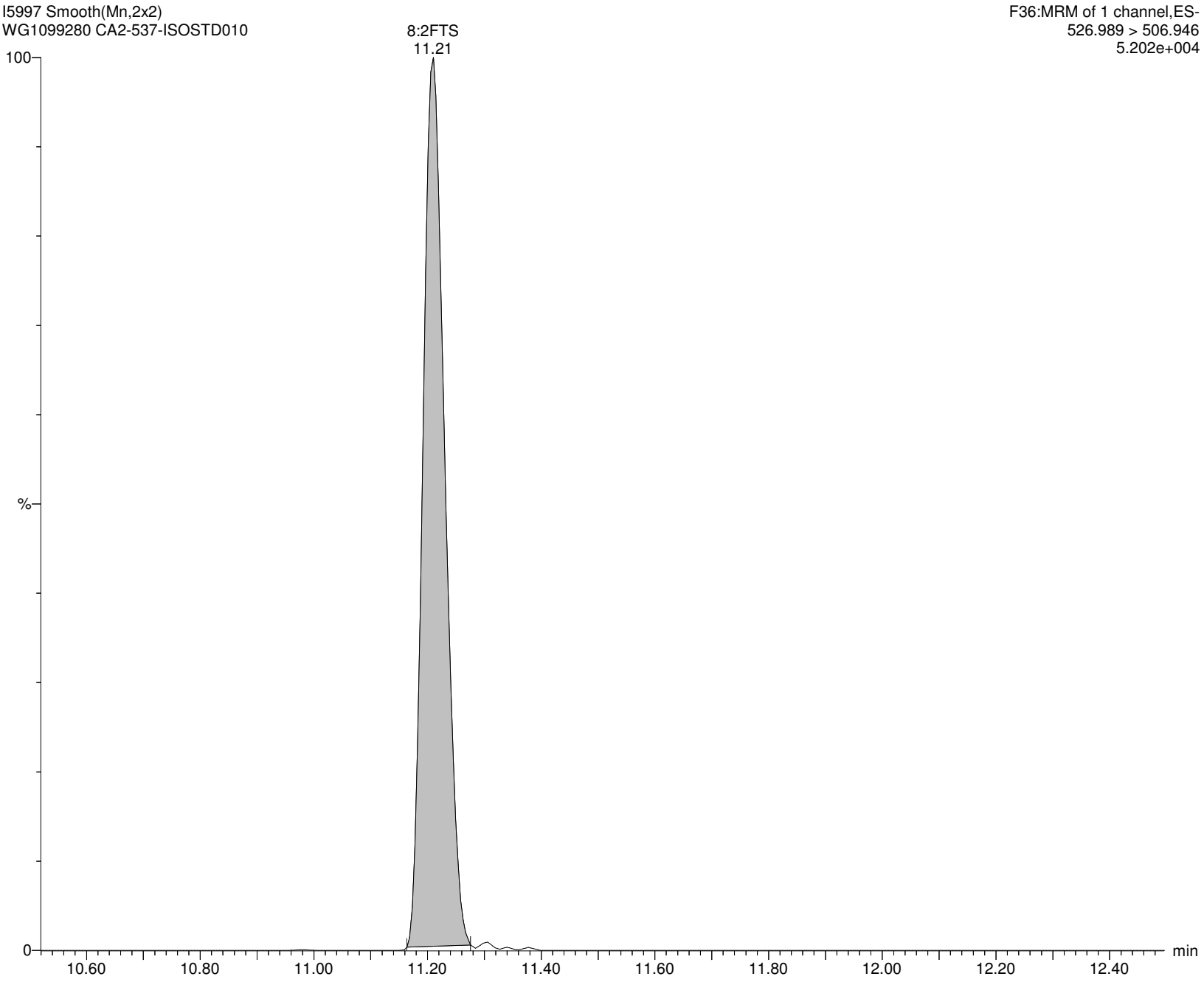
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 18:21:20
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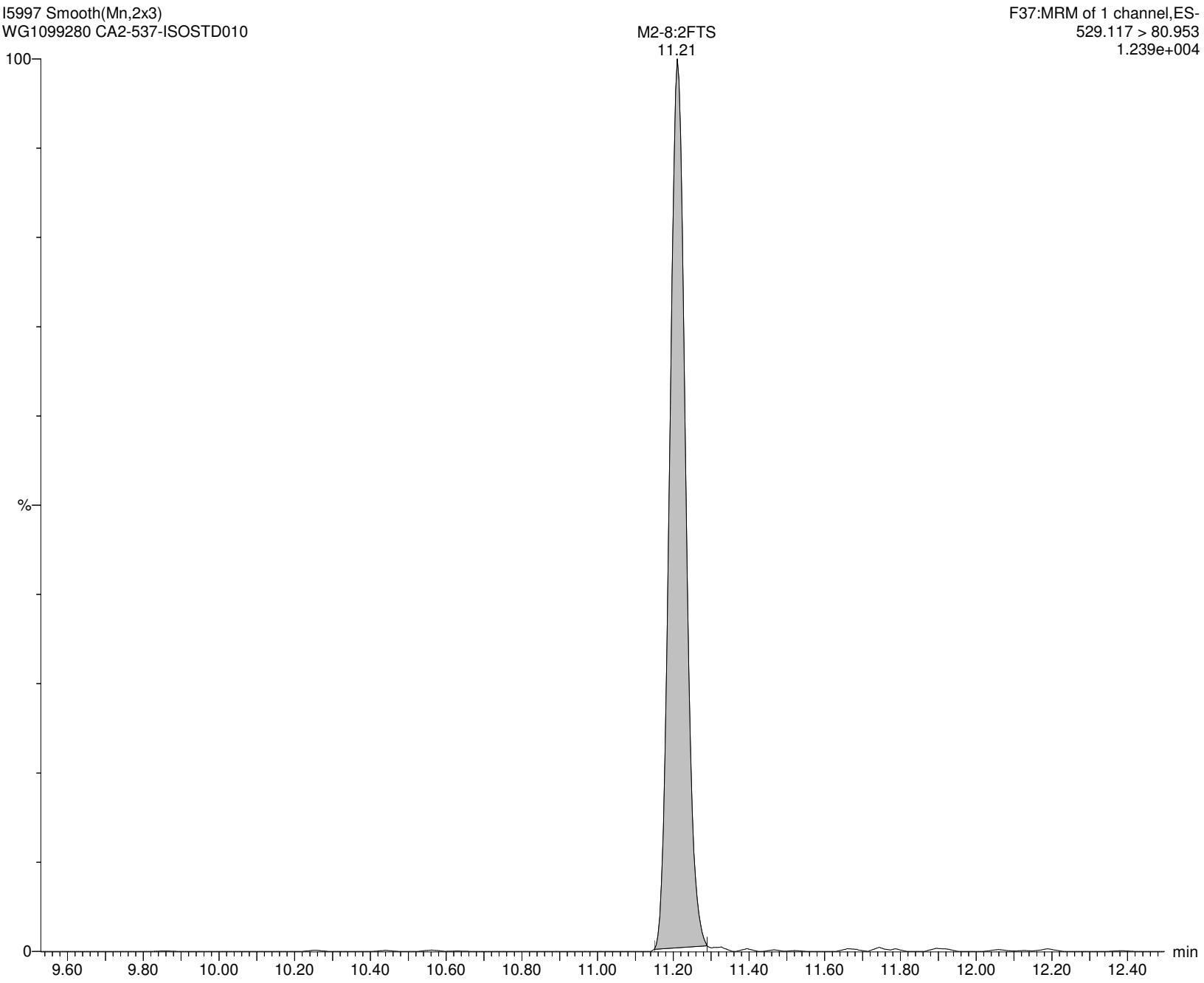
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:B,2
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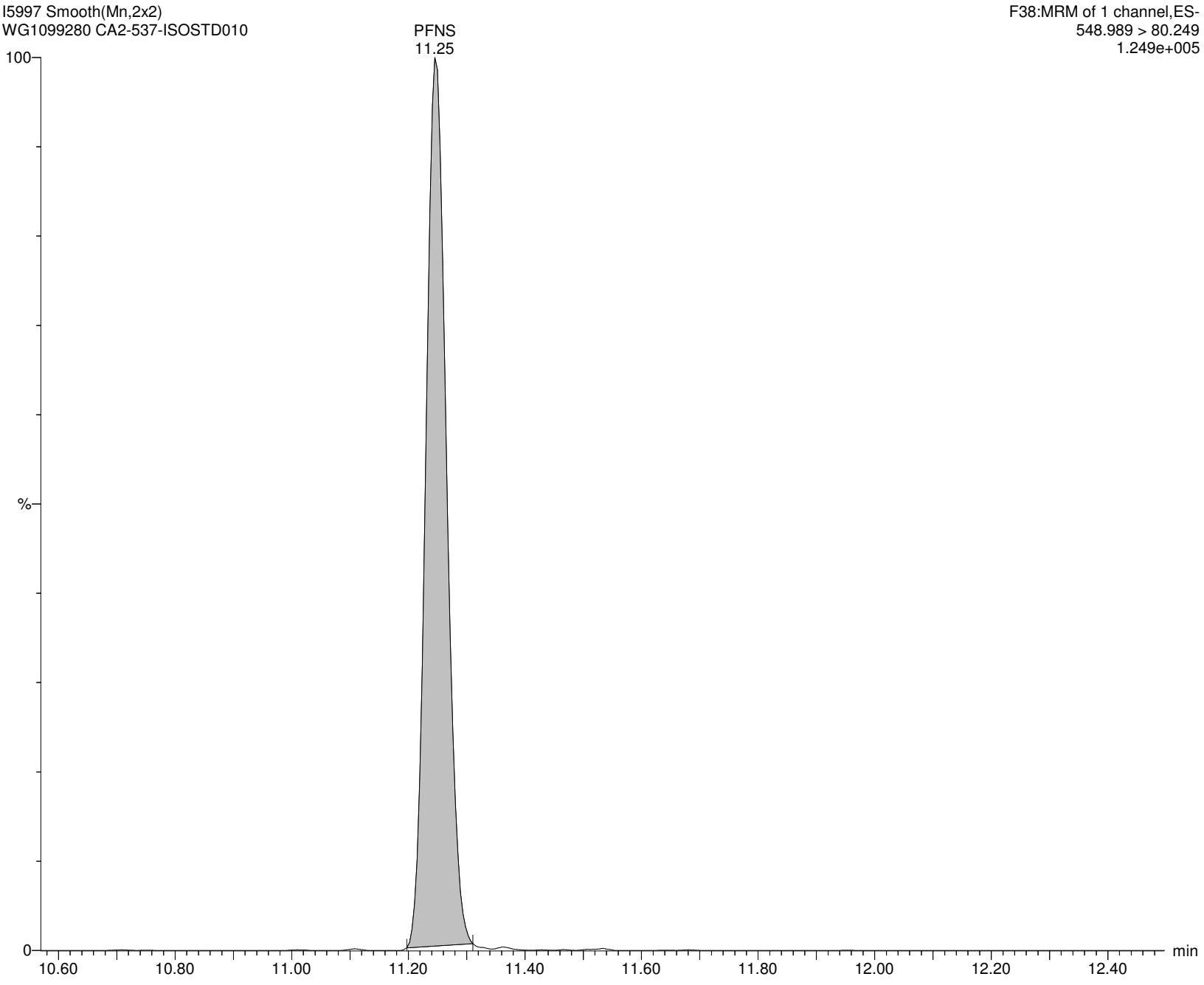

all concentration units in (ng/mL)

Alpha Analytical Inc.
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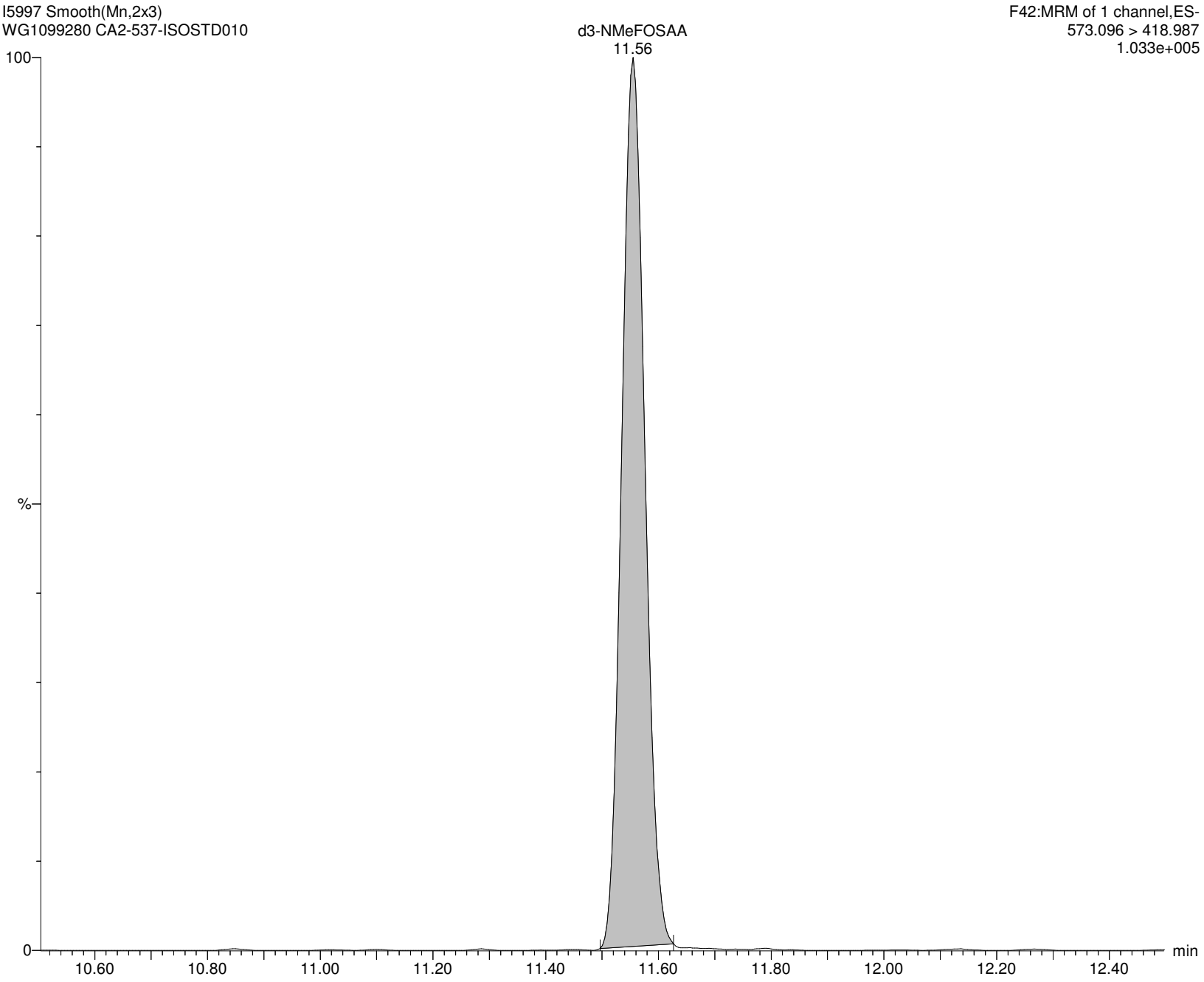

all concentration units in (ng/mL)

Alpha Analytical Inc.
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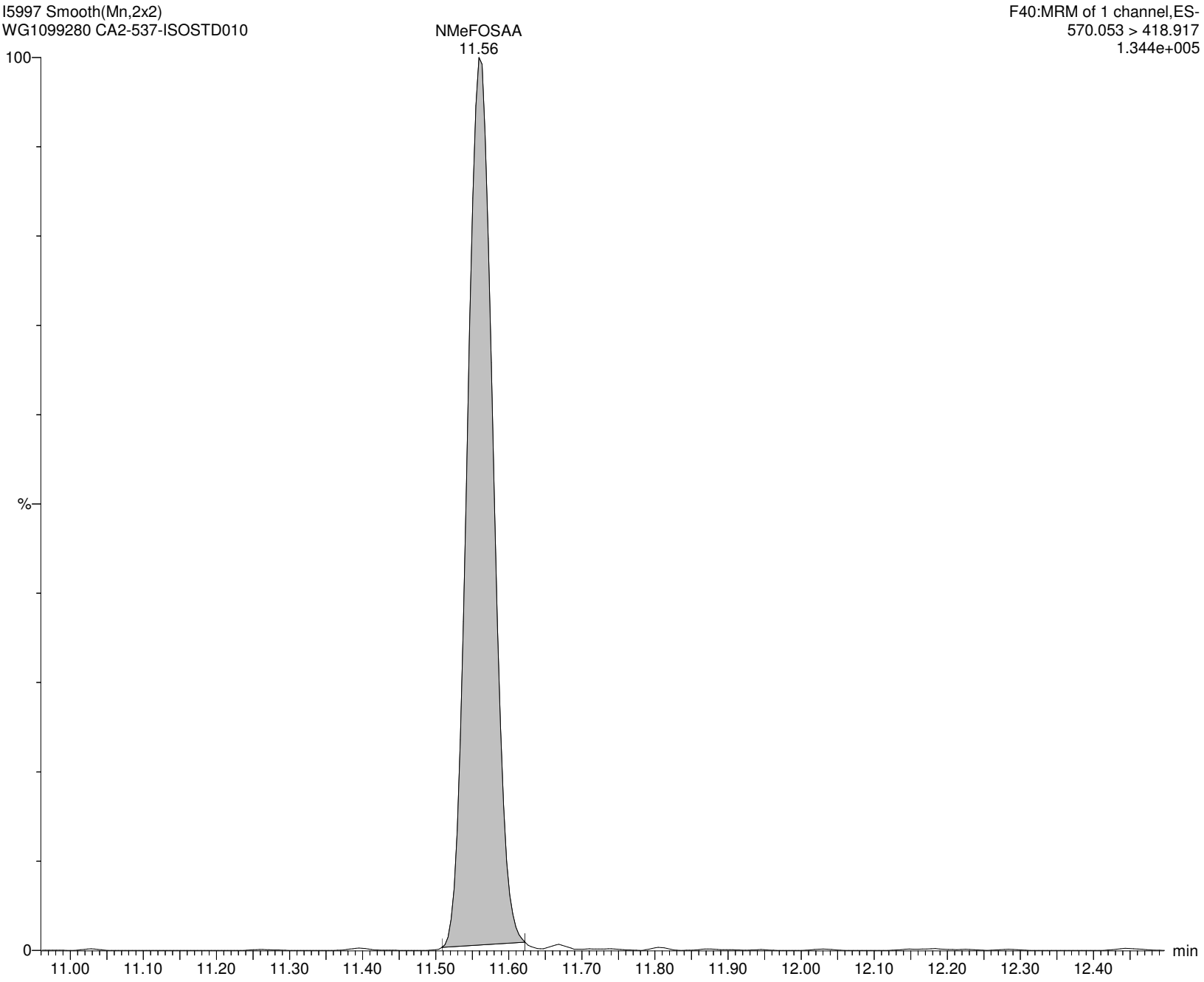

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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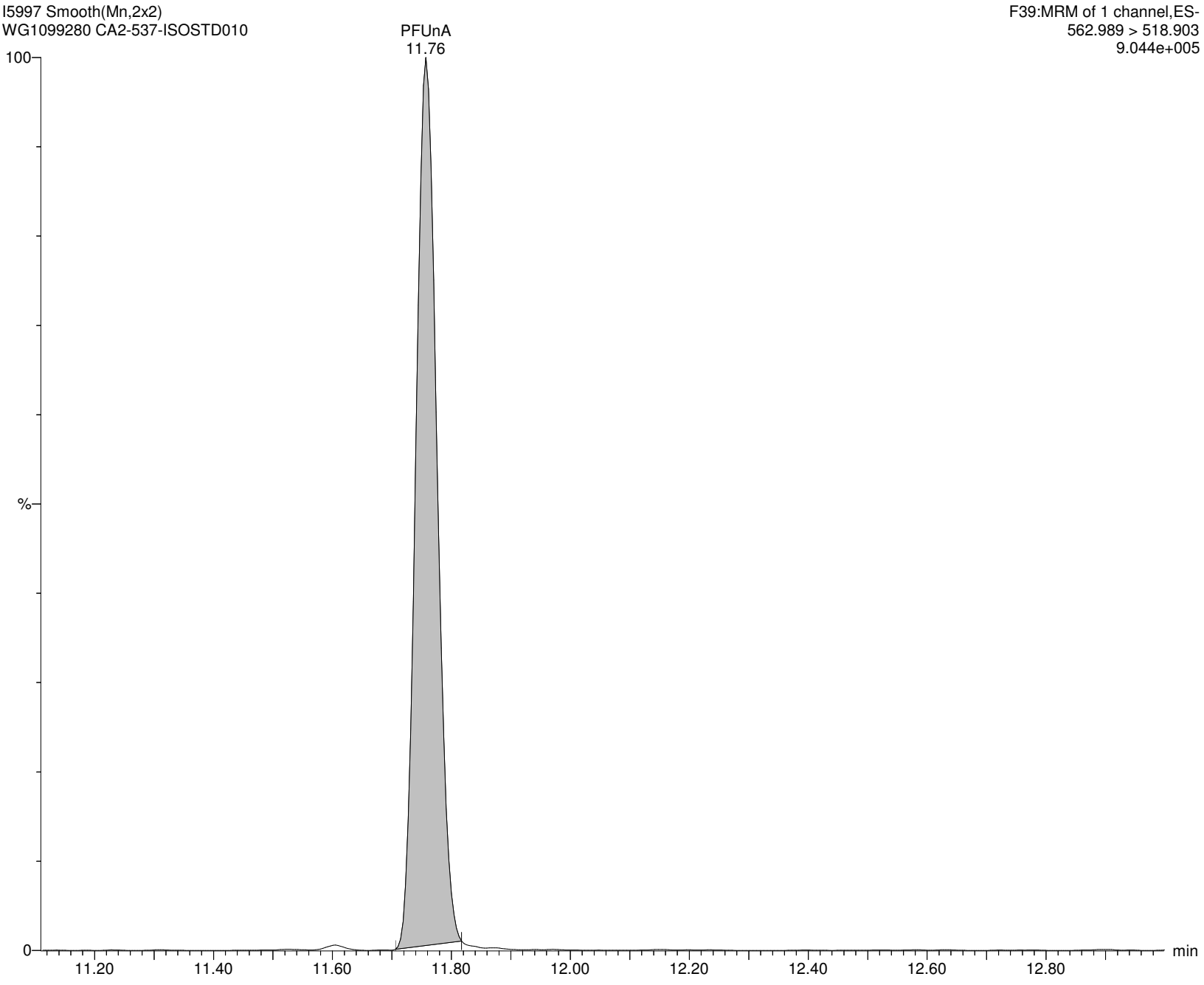

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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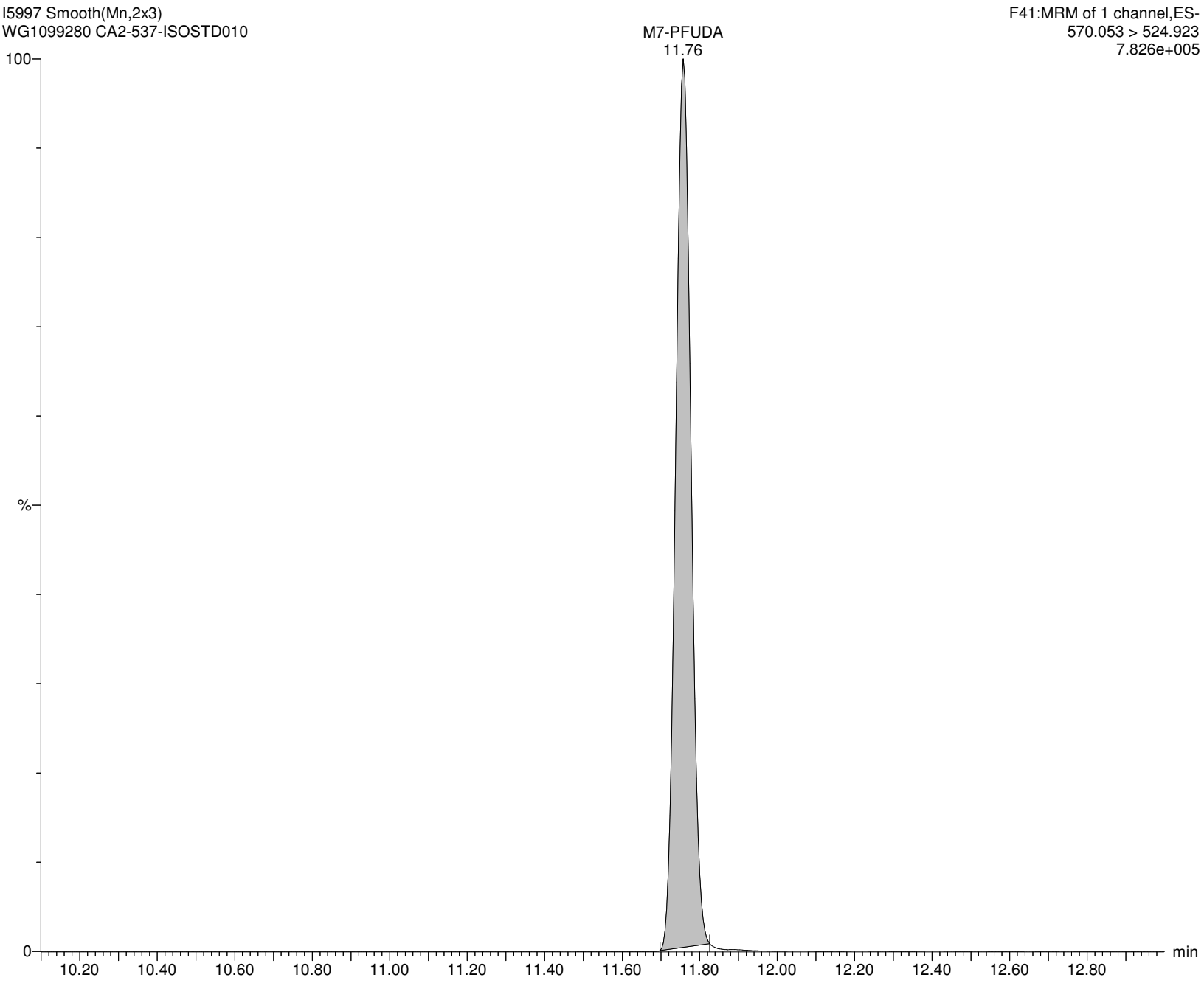
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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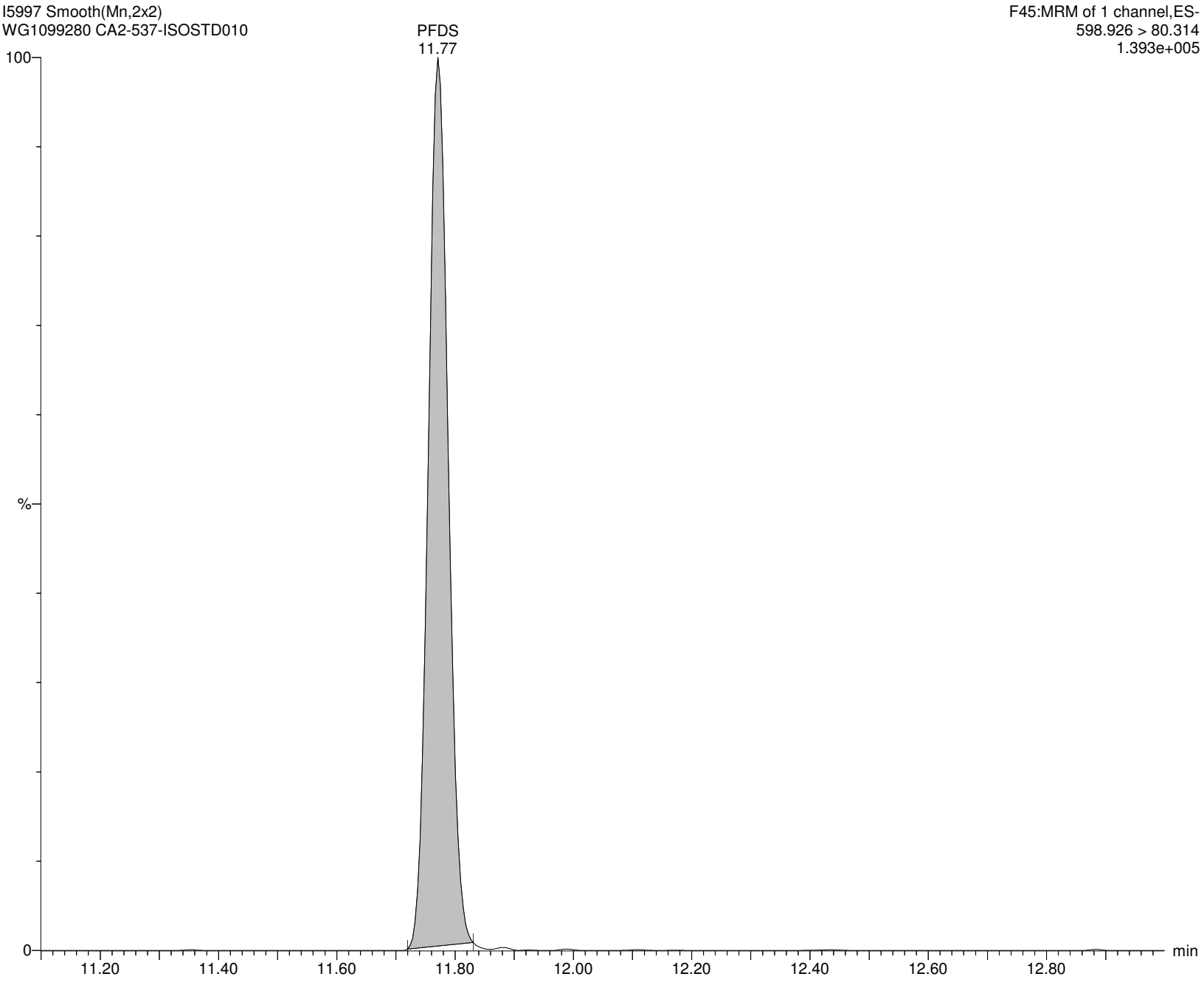
PFDS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:47:07 Eastern Daylight Time

Name: I5997
ID: CA2-537-ISOSTD010
Date: 21-Mar-2018
Time: 18:21:20
Description: WG1099280
User: LCMS01:PB
Vial: 2:B,2
Instrument: XEVO-TQSmicro#QEA0276
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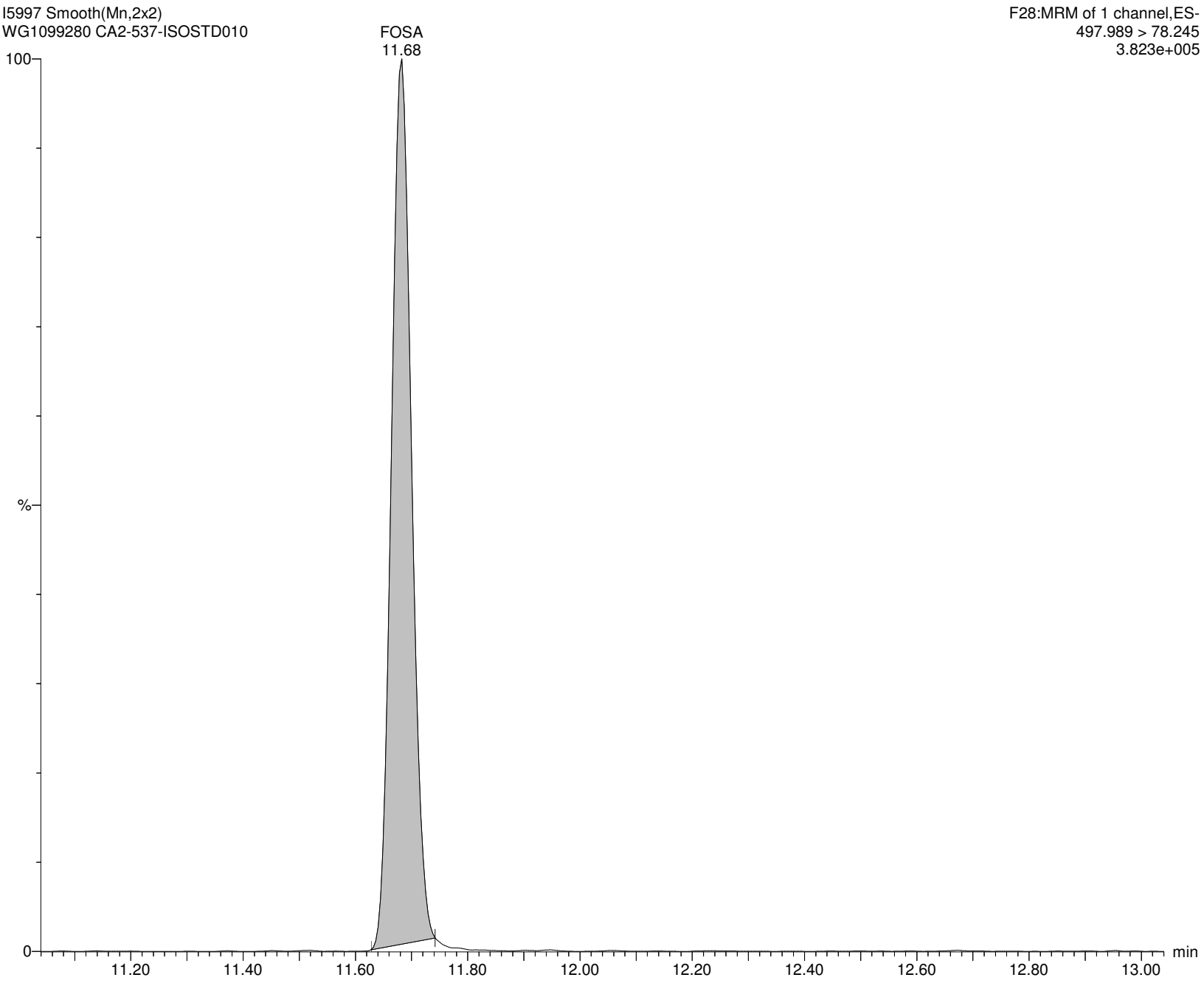

all concentration units in (ng/mL)

Alpha Analytical Inc.
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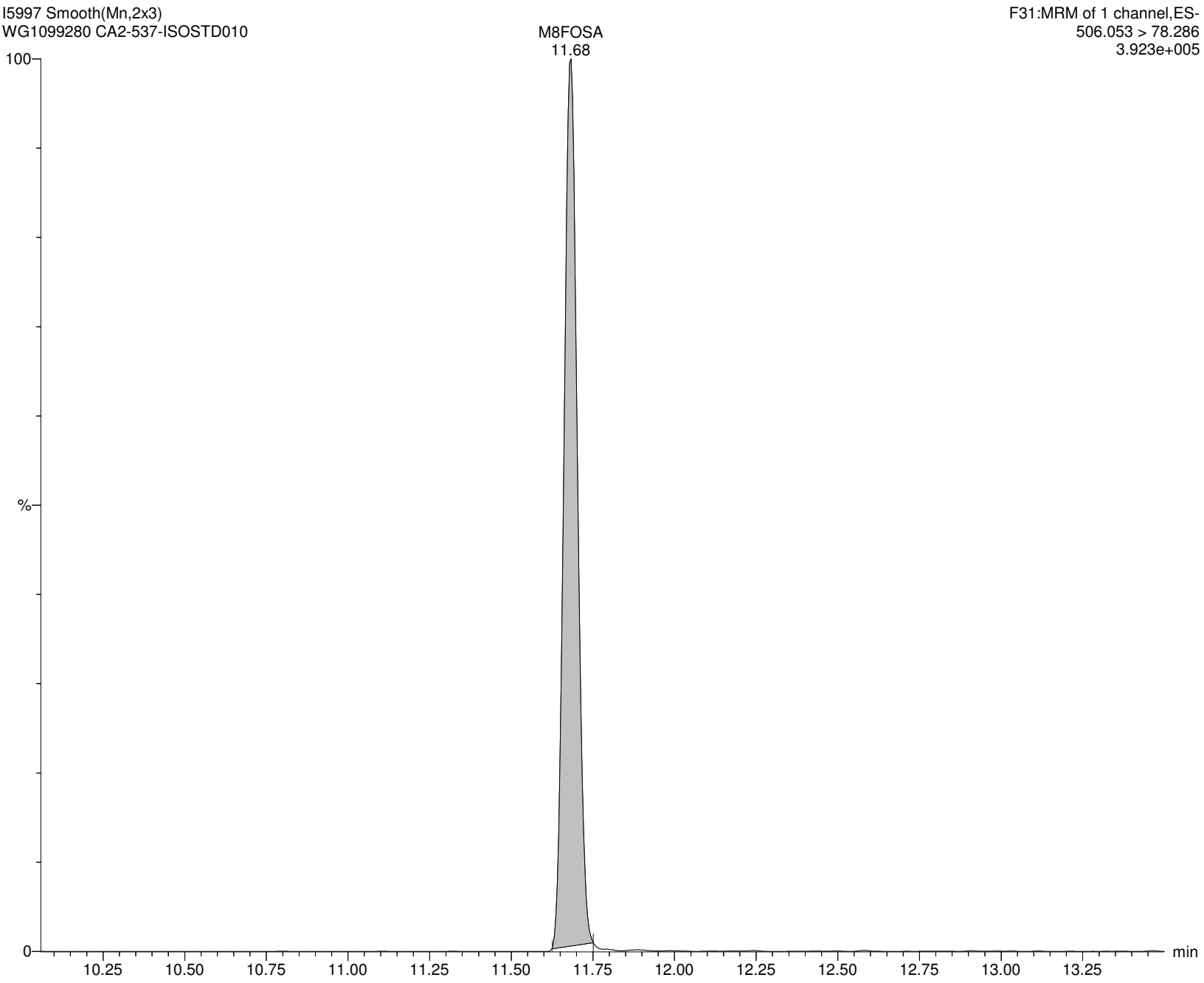

all concentration units in (ng/mL)

Alpha Analytical Inc.
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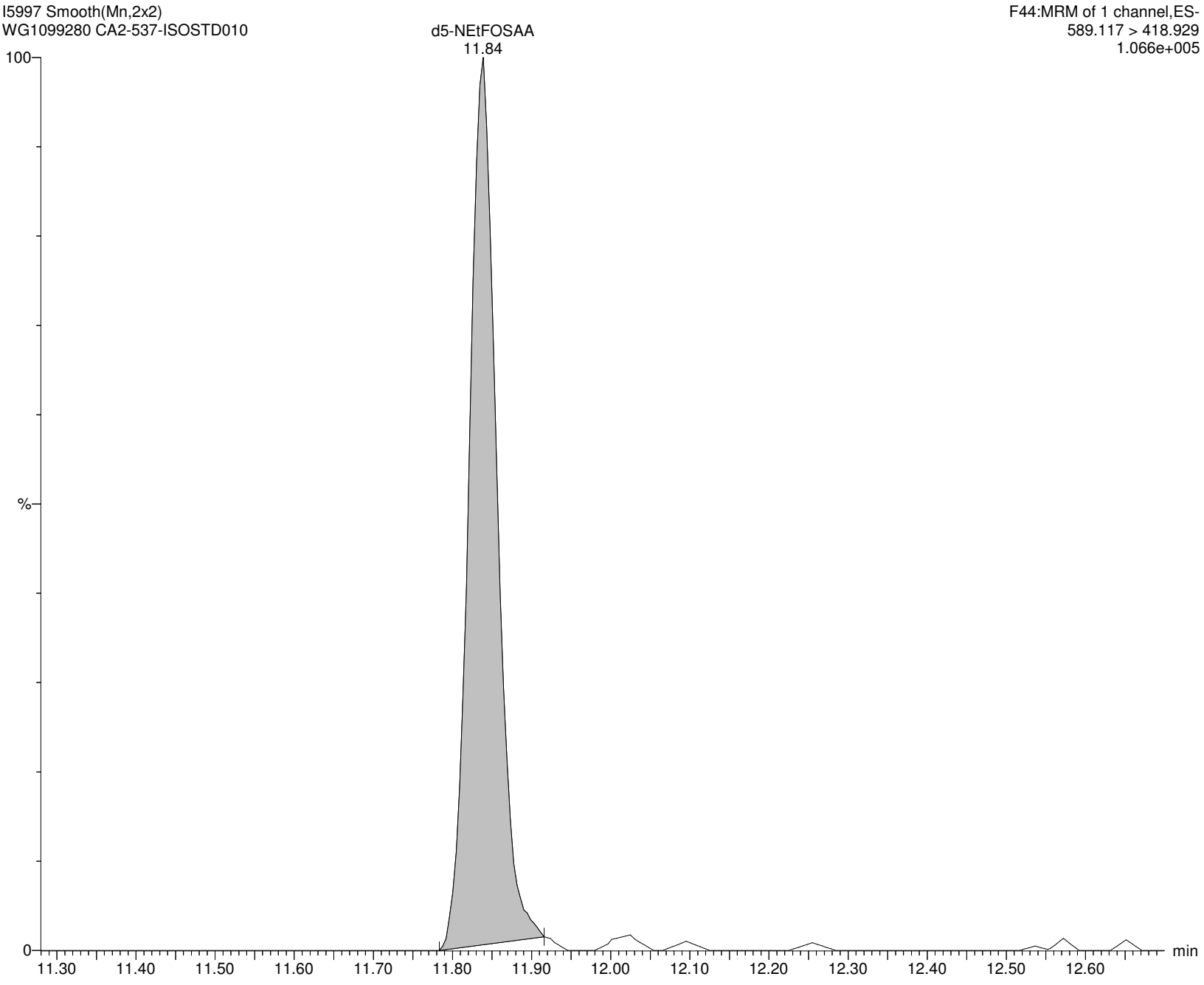

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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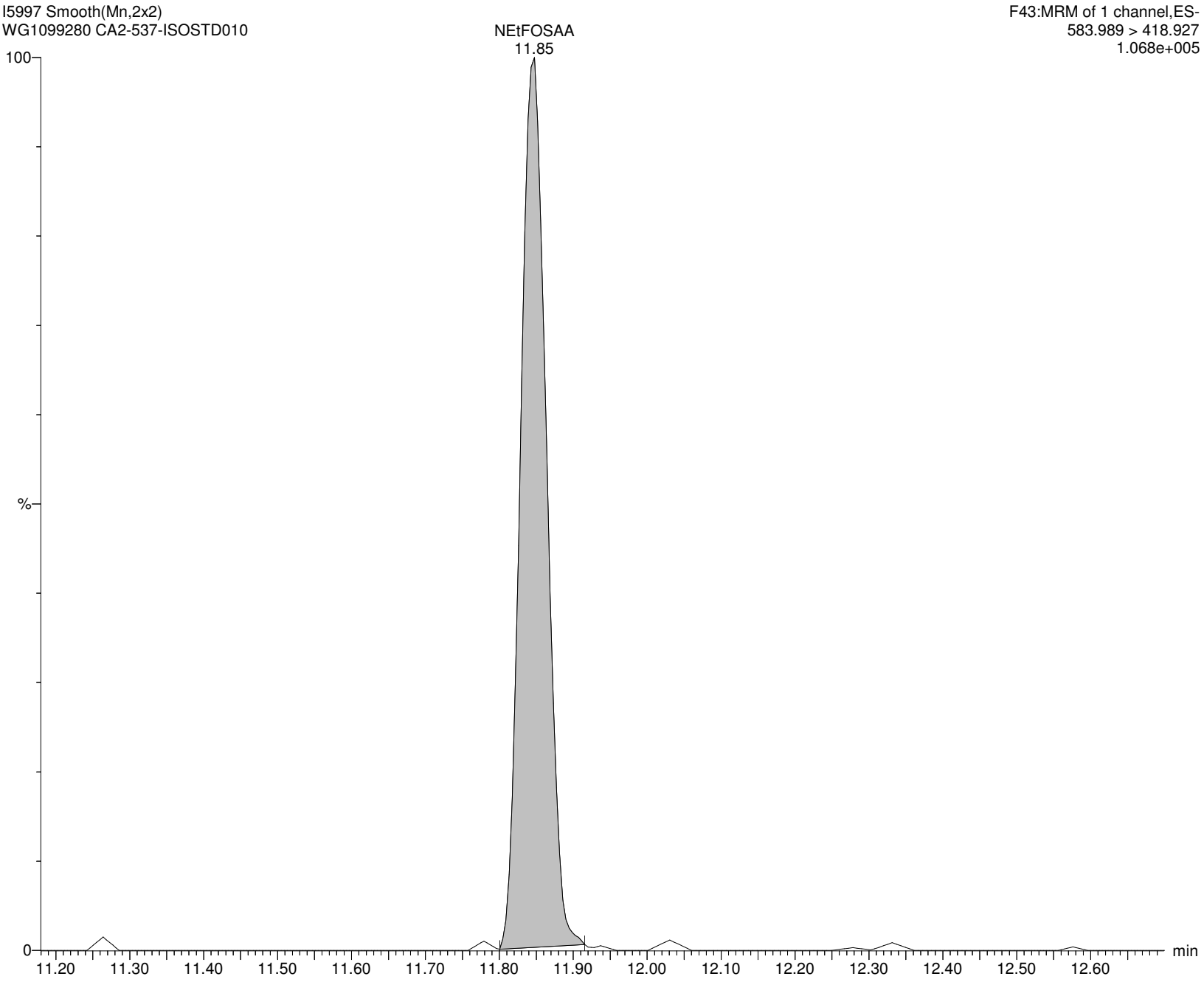

all concentration units in (ng/mL)

Alpha Analytical Inc.
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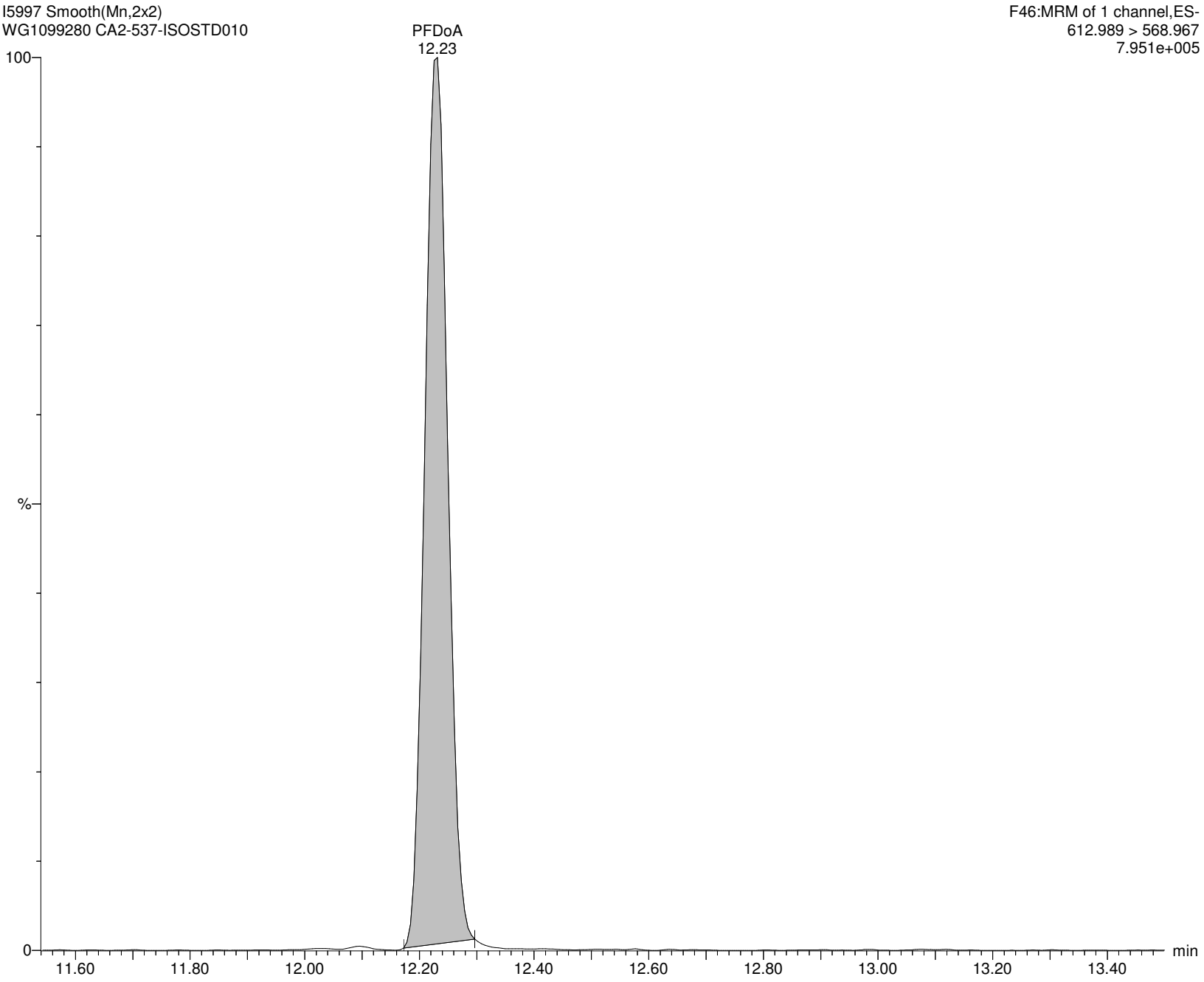

all concentration units in (ng/mL)

Alpha Analytical Inc.
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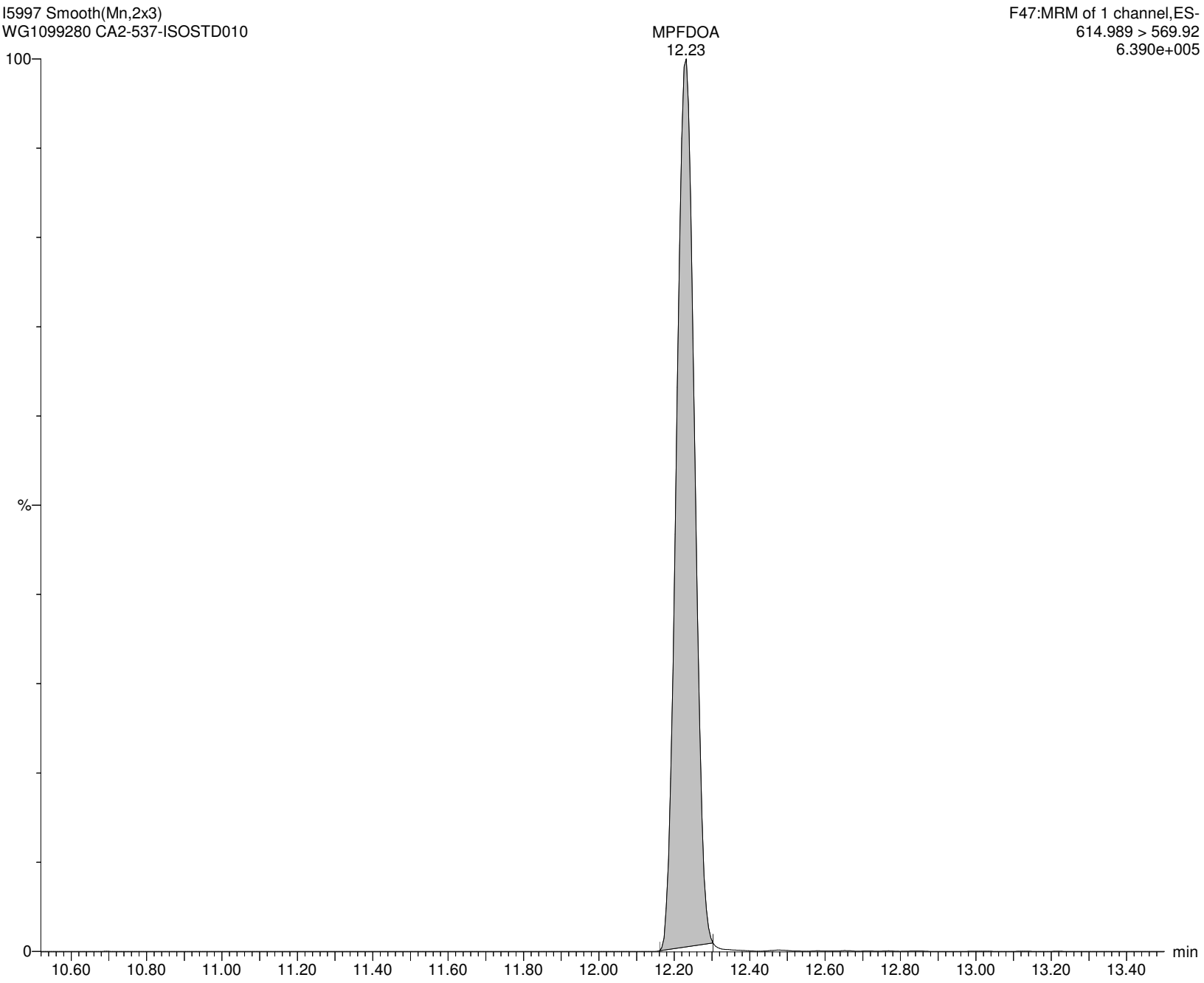

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICV.qld
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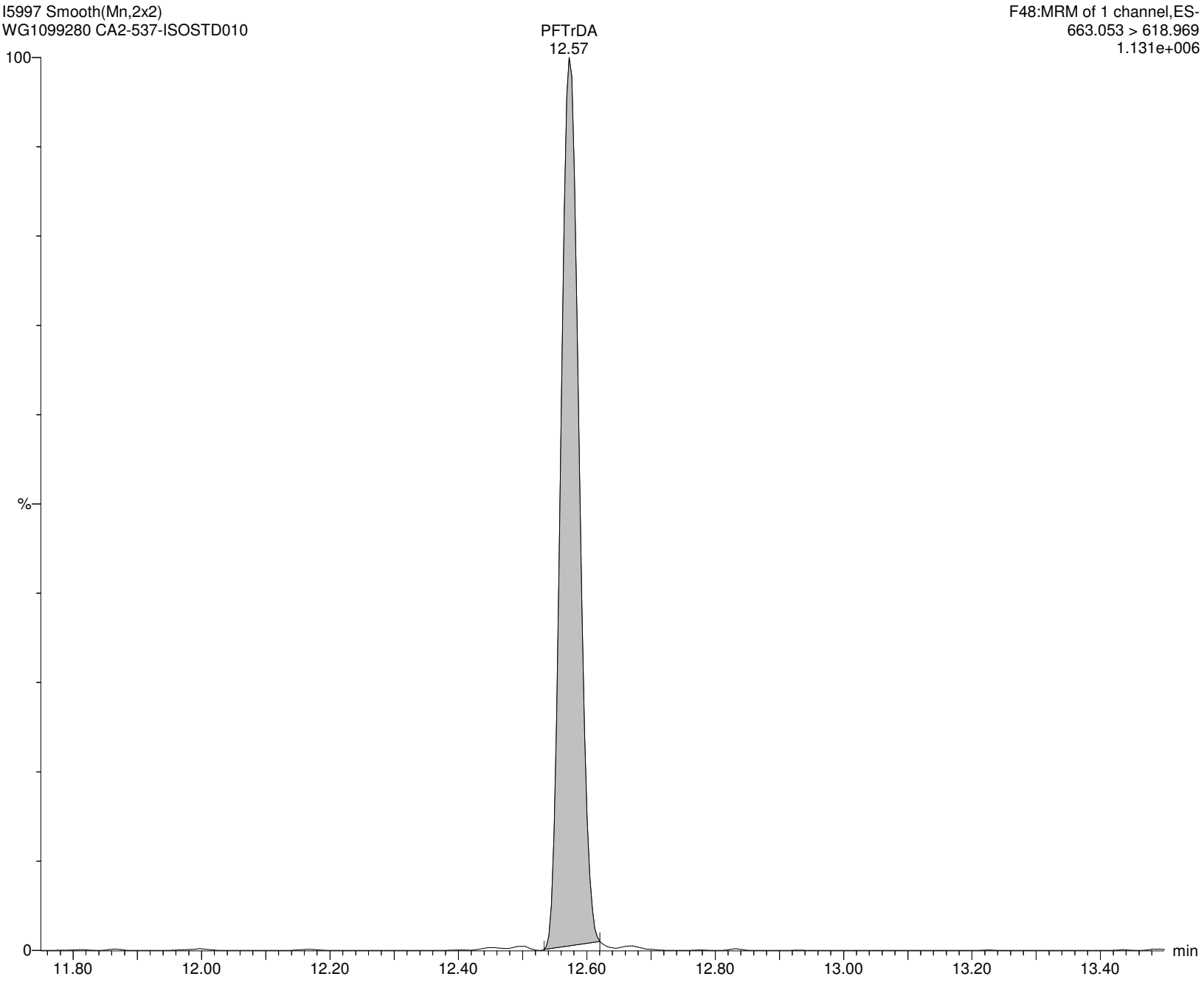

all concentration units in (ng/mL)

Alpha Analytical Inc.
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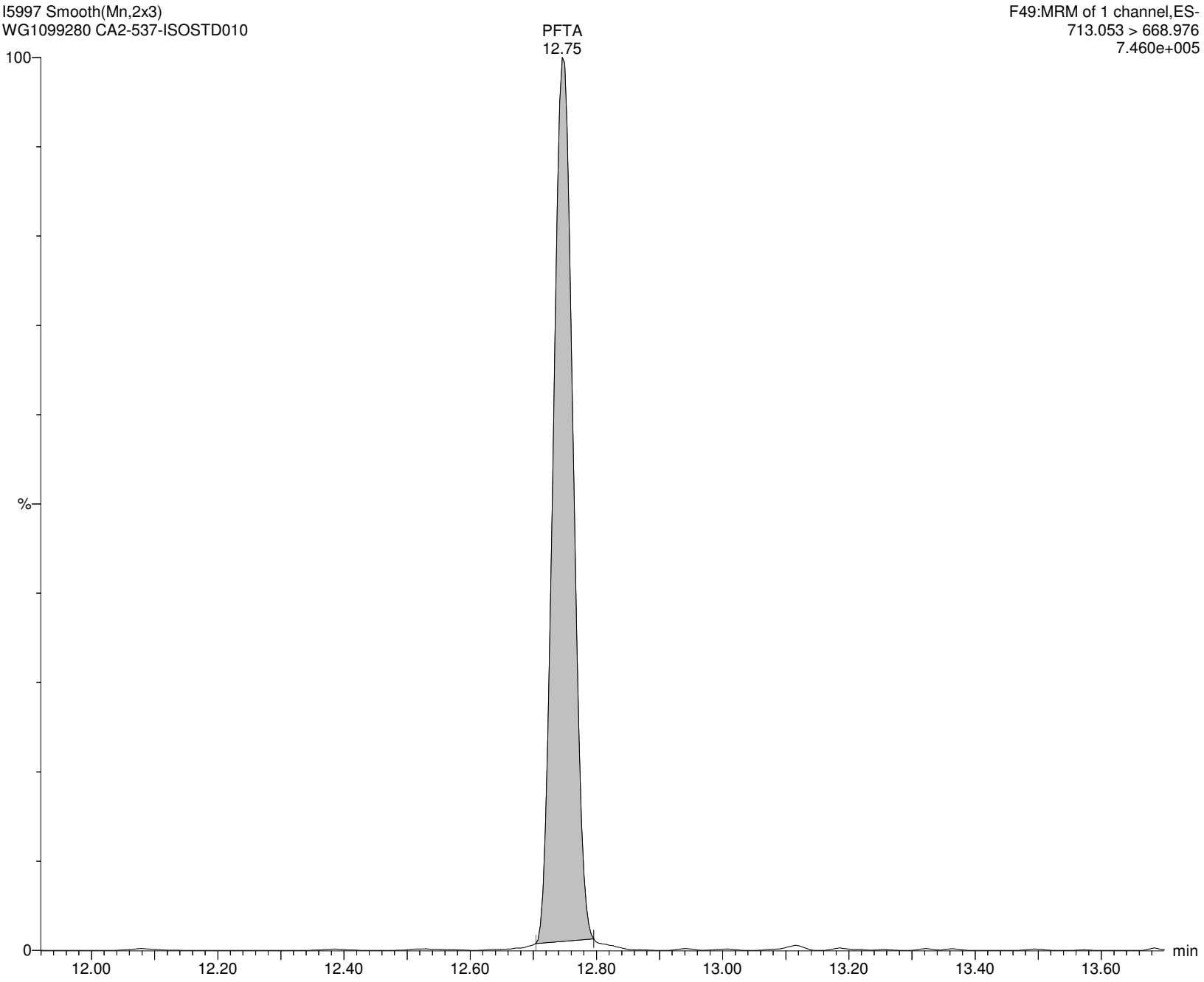

all concentration units in (ng/mL)

Alpha Analytical Inc.
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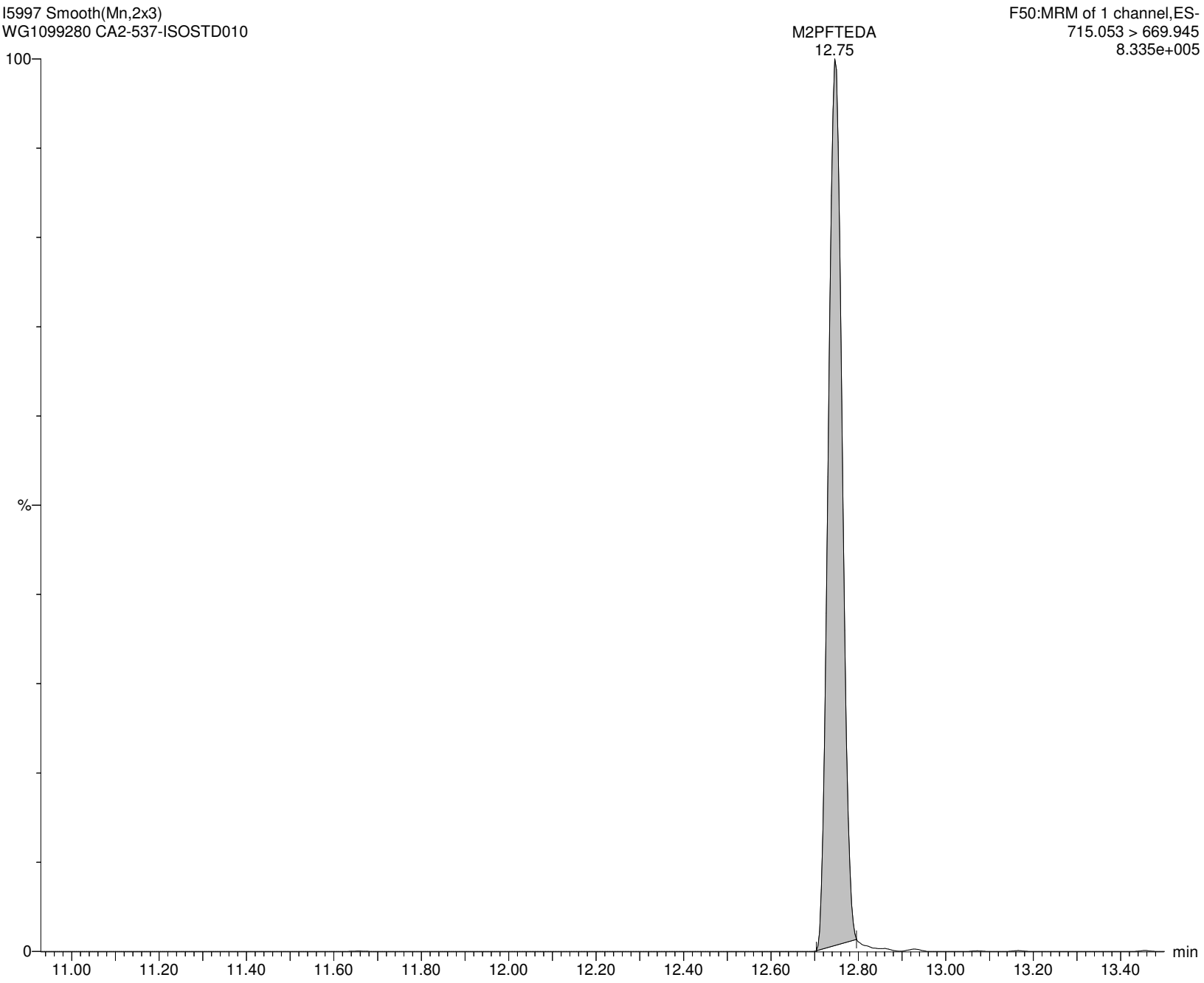

all concentration units in (ng/mL)

Alpha Analytical Inc.
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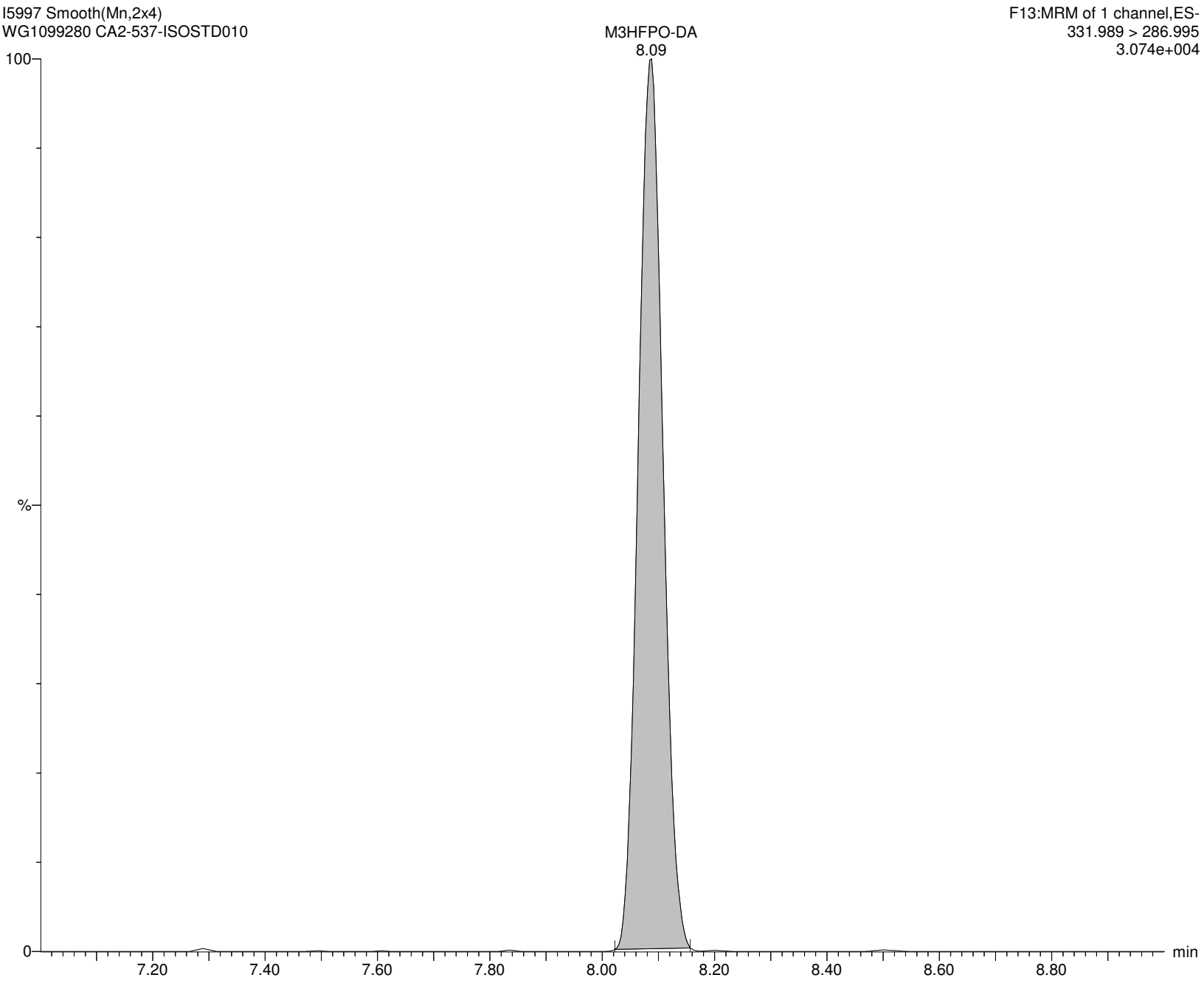

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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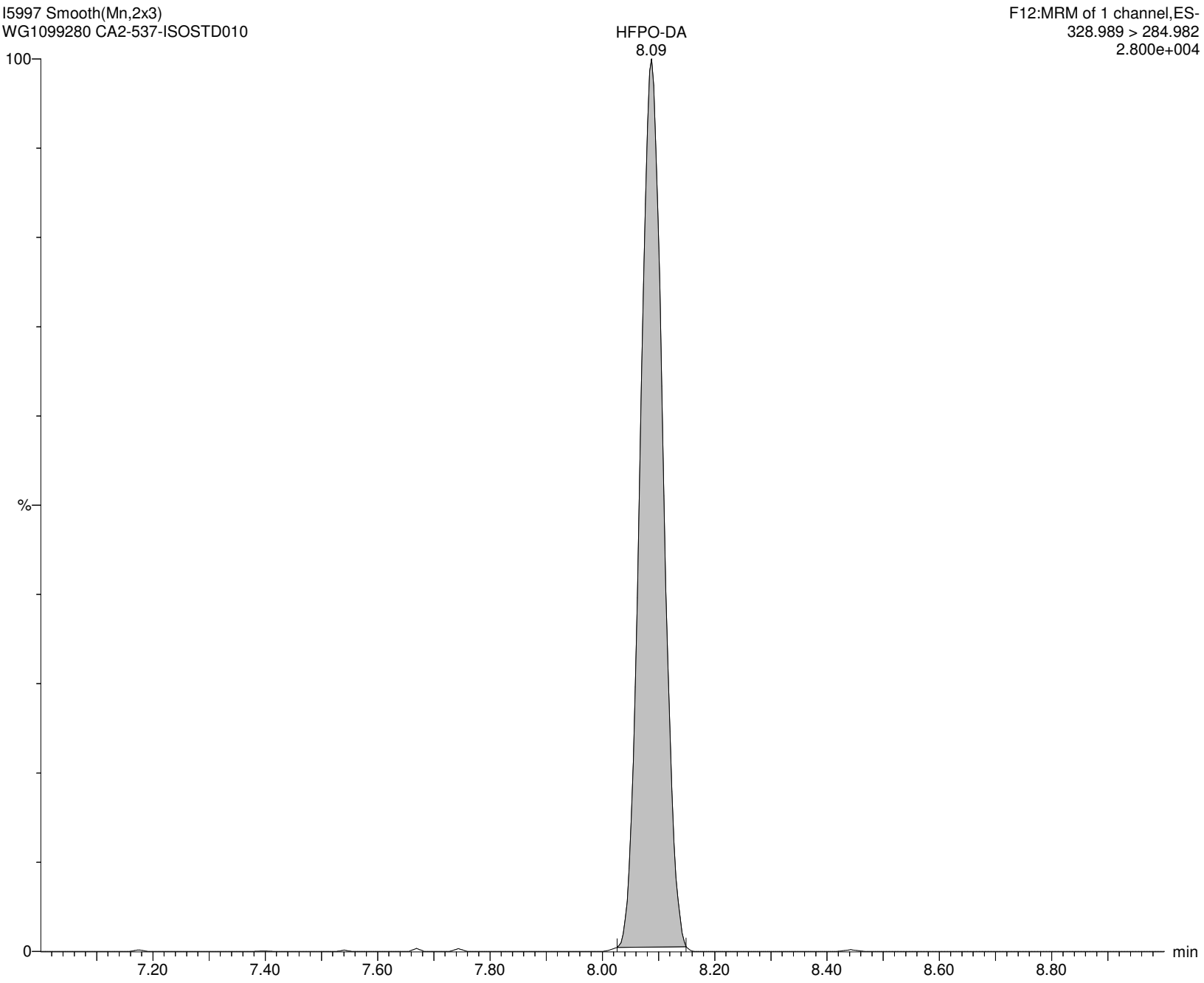

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:45:39 Eastern Daylight Time
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Time: 18:21:20
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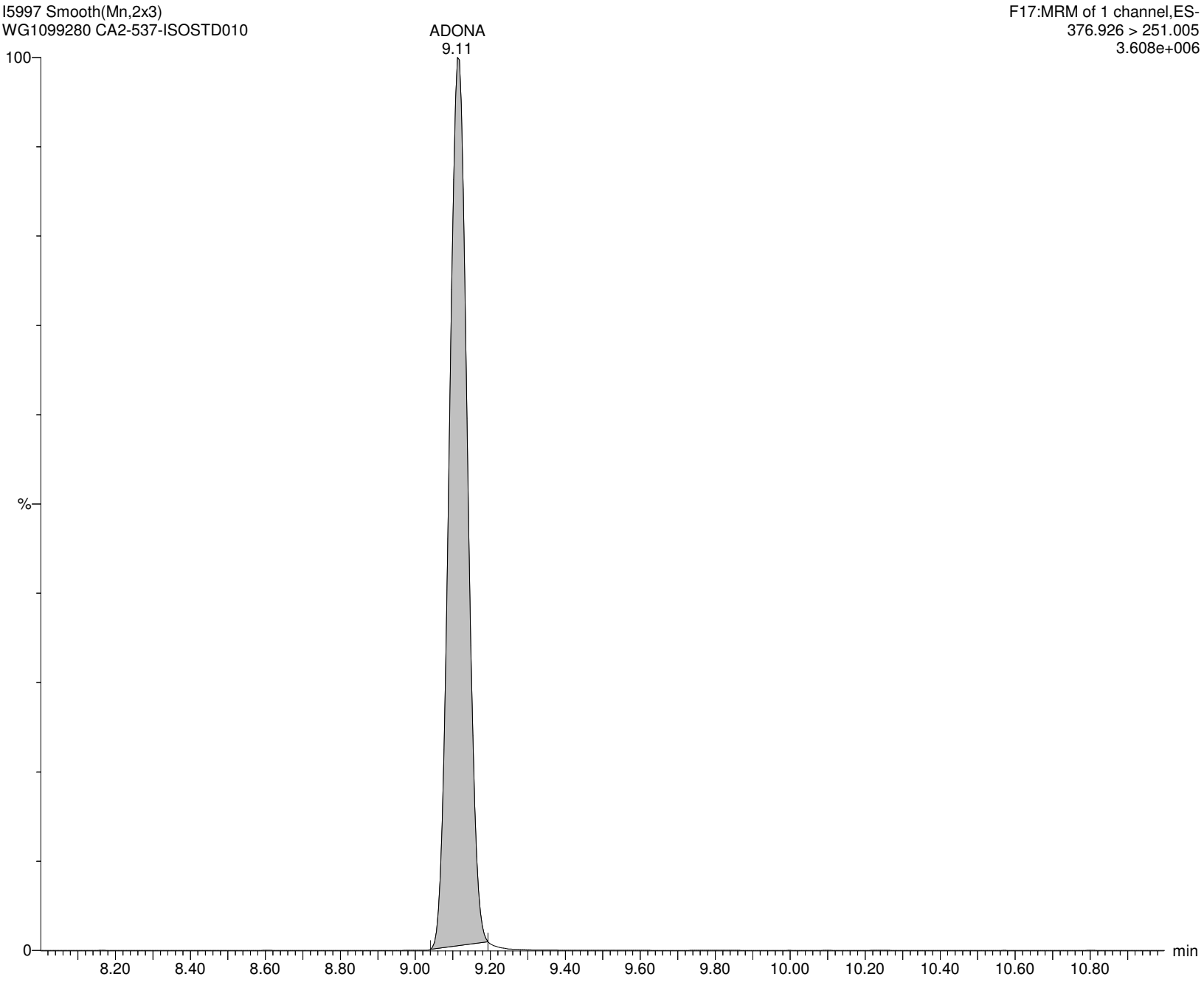

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:B,2
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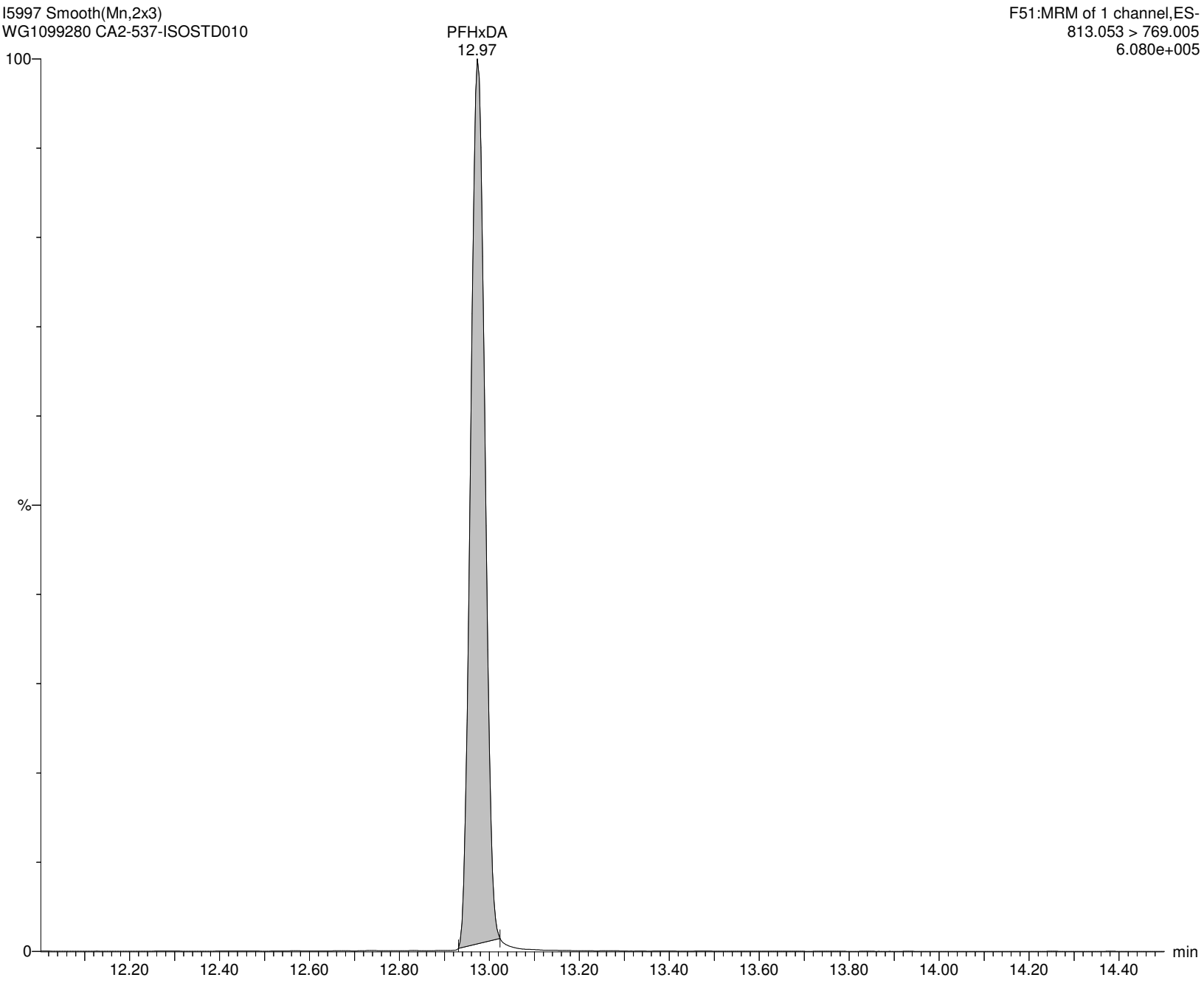

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:B,2
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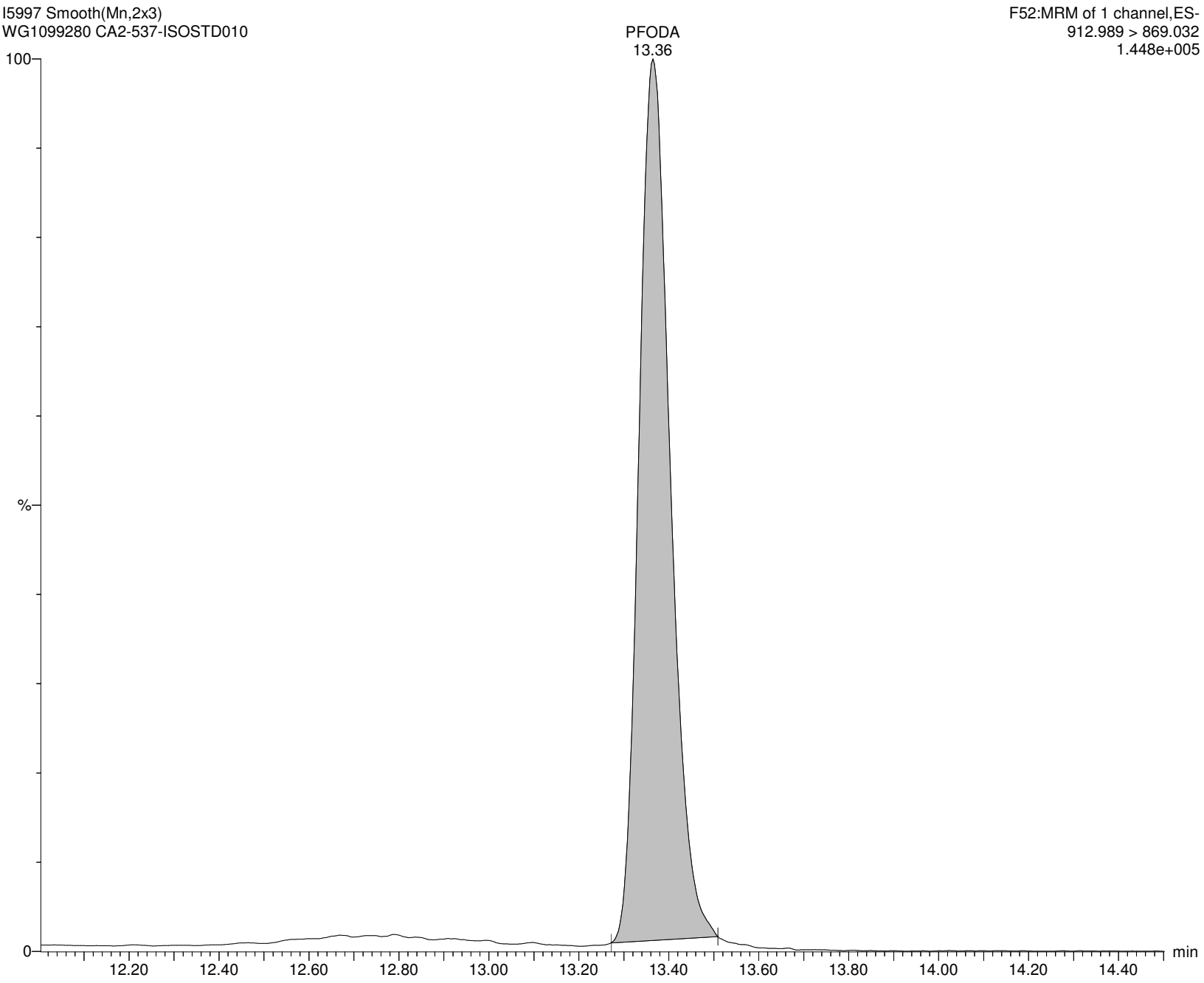

all concentration units in (ng/mL)

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Apr 03 2018, 12:13 pm

Work Group: WG1101262 for Department: 2 Organic Preparation

Created: 28-MAR-18 Due: Operator: PB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1808174-01	CONCRETE (0-2")	S	A2-537-ISOTOPE	SOIL	DONE	U	0406	0406	S0	Plastic-A-GS
L1808174-02	CONCRETE (5-7")	S	A2-537-ISOTOPE	SOIL	DONE	U	0406	0406	S0	Plastic-A-GS
L1809219-01	TT-4 (1-2')	S	A2-537-ISOTOPE	SOIL	DONE	U	0409	0330	S0	Plastic-A-GS
L1809219-02	TT-1 (1-2')	S	A2-537-ISOTOPE	SOIL	DONE	U	0409	0330	S0	Plastic-A-GS
WG1101262-1	Laboratory Method Bl	S	A2-537-ISOTOPE	SOIL	DONE	U				
WG1101262-2	Laboratory Control S	S	A2-537-ISOTOPE	SOIL	DONE	U				
WG1101262-3	LCS Duplicate	S	A2-537-ISOTOPE	SOIL	DONE	U				
WG1101262-4	Duplicate Sample	S	A2-537-ISOTOPE	SOIL	DONE	U				
WG1101262-5	Matrix Spike	S	A2-537-ISOTOPE	SOIL	DONE	U				

Comments:

WG1101262-3	WG1101262-2
WG1101262-4	L1809219-01
WG1101262-5	L1808174-02

Sequence Logs

	Vial	File Name	File Text	Sample ID	MS File
1	2:F,8	I5974	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
2	2:F,8	I5975	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
3	2:F,8	I5976	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
4	2:F,8	I5977	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
5	2:F,8	I5978	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
6	2:F,7	I5979	WG1098714,WG1098507,ICAL14528,537ILOW	PFODA	537ISO26_M
7	2:F,6	I5980	WG1098714,WG1098507,ICAL14528,537ILOW	PFHxDA	537ISO26_M
8	2:F,8	I5981	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
9	2:F,7	I5982	WG1098714,WG1098507,ICAL14528,537ILOW	PFODA	537ISO26_M
10	2:F,6	I5983	WG1098714,WG1098507,ICAL14528,537ILOW	PFHxDA	537ISO26_M
11	2:F,8	I5984	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
12	2:F,8	I5985	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
13	2:F,9	I5986	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
14	2:F,8	I5987	WG1098714,WG1098507,ICAL14528,537ILOW	28 compound STD	537ISO26_M
15	2:A,1	I5988	WG1099280	IA2-537-ISOSTD0.50	537ISO26_M
16	2:A,2	I5989	WG1099280	IA2-537-ISOSTD01.0	537ISO26_M
17	2:A,3	I5990	WG1099280	IA2-537-ISOSTD02.0	537ISO26_M
18	2:A,4	I5991	WG1099280	IA2-537-ISOSTD05.0	537ISO26_M
19	2:A,5	I5992	WG1099280	IA2-537-ISOSTD010	537ISO26_M
20	2:A,6	I5993	WG1099280	IA2-537-ISOSTD050	537ISO26_M
21	2:A,7	I5994	WG1099280	IA2-537-ISOSTD020	537ISO26_M
22	2:A,8	I5995	WG1099280	IA2-537-ISOSTD125	537ISO26_M
23	2:B,1	I5996	WG1099280	IA2-537-ISOSTD150	537ISO26_M
24	2:B,2	I5997	WG1099280	CA2-537-ISOSTD010	537ISO26_M
25	2:A,1	I5998	WG1099281,WG1098507,ICALXXXX,537ILOW	WG1099281-1,537ILOW	537ISO26_M
26	2:B,3	I5999	031918A	WAX MB#1; NH4OH Only	537ISO26_M
27	2:B,4	I6000	031918A	WAX MB#2; NH4OH Only	537ISO26_M
28	2:B,5	I6001	031918A	WAX MB#3; NH4OH Only	537ISO26_M
29	2:B,6	I6002	031918A	WAX MDL#1; NH4OH Only	537ISO26_M
30	2:B,7	I6003	031918A	WAX MDL#2; NH4OH Only	537ISO26_M
31	2:B,8	I6004	031918A	WAX MDL#3; NH4OH Only	537ISO26_M
32	2:A,5	I6005	WG1099281,WG1098507,ICALXXXX,537IMED	WG1099281-2,537IMED	537ISO26_M
33	2:C,1	I6006	031918C	WAX MB#1	537ISO26_M
34	2:C,2	I6007	031918C	WAX MB#2	537ISO26_M
35	2:C,3	I6008	031918C	WAX MB#3	537ISO26_M
36	2:C,4	I6009	031918C	WAX MDL#1	537ISO26_M
37	2:C,5	I6010	031918C	WAX MDL#2	537ISO26_M
38	2:C,6	I6011	031918C	WAX MDL#3	537ISO26_M
39	2:A,1	I6012	WG1099281,WG1098507,ICALXXXX,537ILOW	WG1099281-3,537ILOW	537ISO26_M
40	2:D,1	I6013	Waters 700 ul Vial	ISO SURR DI Water	537ISO26_M
41	2:D,2	I6014	Waters 700 ul Vial	ISO SURR MeOH	537ISO26_M
42	2:D,3	I6015	Waters 700 ul Vial	ISO SURR 96:4	537ISO26_M
43	2:D,4	I6016	Thermo 2 ml vial	ISO SURR 96:4	537ISO26_M
44	2:D,5	I6017	Amber Vial	ISO SURR 96:4	537ISO26_M
45	2:D,6	I6018	Waters Max Recovery Vial	ISO SURR 96:4	537ISO26_M
46	2:D,7	I6019	Waters Total Recovery Vial	ISO SURR 96:4	537ISO26_M
47	---	---	---	---	---
48	2:E,1	I6021	Blank	Blank	537ISO26_M
49	2:A,1	I6022	LOW CCAL	LOW CCAL	537ISO26_M

MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
180112_TUNE	LCMS_537	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	1	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	2	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	20	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	50	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	125	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Standard	150	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	10	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	QC	.5	LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:PB
---	---	0.0	---	---	---
180112_TUNE	LCMS_537_ISO	3.0	Analyte		LCMS01:AJ
180112_TUNE	LCMS_537_ISO	3.0	QC	0.5	LCMS01:AJ

	Vial	File Name	File Text	Sample ID	MS File	MS Tune File
1	2:A,3	I6045	MeOH BLANK	MeOH BLANK	537ISO26_M	180112_TUNE
2	2:A,3	I6046	MeOH BLANK	MeOH BLANK	537ISO26_M	180112_TUNE
3	2:A,3	I6047	MeOH BLANK	MeOH BLANK	537ISO26_M	180112_TUNE
4	2:E,1	I6048	WG1101624,WG1101353,ICAL14576,537ILOW	WG1101624-1,537ILOW	537ISO26_M	180112_TUNE
5	2:A,4	I6049	WG1101624,WG1101353,ICAL14576	WG1101353-1	537ISO26_M	180112_TUNE
6	2:A,1	I6050	WG1101624,WG1101353,ICAL14576	WG1101353-2	537ISO26_M	180112_TUNE
7	2:A,2	I6051	WG1101624,WG1101353,ICAL14576	WG1101353-3	537ISO26_M	180112_TUNE
8	2:A,5	I6052	WG1101624,WG1101353,ICAL14576	L1809248-02	537ISO26_M	180112_TUNE
9	2:A,6	I6053	WG1101624,WG1101353,ICAL14576	L1809248-04	537ISO26_M	180112_TUNE
10	2:A,7	I6054	WG1101624,WG1101353,ICAL14576	L1809248-01	537ISO26_M	180112_TUNE
11	2:A,8	I6055	WG1101624,WG1101353,ICAL14576	WG1101353-4	537ISO26_M	180112_TUNE
12	2:B,1	I6056	WG1101624,WG1101353,ICAL14576	L1809248-03	537ISO26_M	180112_TUNE
13	2:B,2	I6057	WG1101624,WG1101353,ICAL14576	WG1101353-5	537ISO26_M	180112_TUNE
14	2:E,2	I6058	WG1101624,WG1101353,ICAL14576,537IMED	WG1101624-2,537IMED	537ISO26_M	180112_TUNE
15	2:A,3	I6059	MeOH BLANK	MeOH BLANK	537ISO26_M	180112_TUNE
16	2:B,5	I6060	WG1101624,WG1101262,ICAL14576	WG1101262-1	537ISO26_M	180112_TUNE
17	2:B,3	I6061	WG1101624,WG1101262,ICAL14576	WG1101262-2	537ISO26_M	180112_TUNE
18	2:B,4	I6062	WG1101624,WG1101262,ICAL14576	WG1101262-3	537ISO26_M	180112_TUNE
19	2:B,6	I6063	WG1101624,WG1101262,ICAL14576	L1809219-01	537ISO26_M	180112_TUNE
20	2:B,7	I6064	WG1101624,WG1101262,ICAL14576	WG1101262-4	537ISO26_M	180112_TUNE
21	2:B,8	I6065	WG1101624,WG1101262,ICAL14576	L1809219-02	537ISO26_M	180112_TUNE
22	2:C,1	I6066	WG1101624,WG1101262,ICAL14576	L1808174-01	537ISO26_M	180112_TUNE
23	2:C,2	I6067	WG1101624,WG1101262,ICAL14576	L1808174-02	537ISO26_M	180112_TUNE
24	2:C,3	I6068	WG1101624,WG1101262,ICAL14576	WG1101262-5	537ISO26_M	180112_TUNE
25	2:E,1	I6069	WG1101624,WG1101262,ICAL14576,537ILOW	WG1101624-3,537ILOW	537ISO26_M	180112_TUNE

Inlet File	Inject Volume	Sample Type	Conc A	User
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	QC	0.5	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	QC	10	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	Analyte	---	LCMS01:AJ
LCMS_537_ISO	3.0	QC	0.5	LCMS01:AJ

Analytical Event

Continuing Calibration

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 22 Mar 2018 09:28:35
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: WG1101624-2,537IMED
Name: I6058
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	34708		9.499		na	95.0
2	MPFBA	INT STD	2.23	216.926 > 172.137	49639		10.055		na	100.6
3	PFPeA	2706-90-3	5.13	262.926 > 219.002	36531		9.132		na	91.3
4	M5PFPEA	INT STD	5.13	TIC	50881		10.000		na	100.0
5	PFBS	375-73-5	5.81	298.989 > 80.295	7296		8.078		na	91.3
6	M3PFBS	INT STD	5.80	301.989 > 80.254	9183		9.645		na	96.4
7	PFHxA	307-24-4	7.04	312.989 > 269.028	45870		9.375		na	93.8
8	M5PFHxA	INT STD	7.04	317.989 > 273.045	54125		9.731		na	97.3
9	PFPeS	2706-91-4	7.36	348.926 > 80.251	6860		8.166		na	86.9
10	PFHpA	375-85-9	8.31	362.926 > 319.014	53179		9.268		na	92.7
11	M4PFHpA	INT STD	8.30	366.926 > 321.979	62416		9.880		na	98.8
12	br-PFHxS	355-46-4	8.23	398.926 > 80.295	1339		1.596		na	84.0
13	L-PFHxS	355-46-4	8.46	398.926 > 80.295	6244		7.612		na	94.0
14	PFHxS	355-46-4		398.926 > 80.295	7584		9.208		na	
15	M3PFHxS	INT STD	8.47	401.926 > 80.317	8691		9.923		na	99.2
16	br-PFOA	335-67-1	8.85	412.989 > 368.9	21		0.004		na	0.0
17	L-PFOA	335-67-1	9.24	412.989 > 368.9	53152		9.495		na	95.0
18	M2PFOA	INT STD	9.24	415.032 > 369.968	57787		9.338		na	93.4
19	PFOA	335-67-1		412.989 > 368.9	53173		9.499		na	
20	M8PFOA	INT STD	9.24	420.989 > 375.979	54004		9.622		na	96.2
21	PFNA	375-95-1	9.98	462.989 > 418.931	39007		9.728		na	97.3
22	M9PFNA	INT STD	9.98	472.053 > 426.947	48112		9.122		na	91.2
23	br-PFOS	1763-23-1	9.78	498.989 > 80.294	1625		1.684		na	84.2
24	L-PFOS	1763-23-1	10.03	498.989 > 80.294	4813		7.057		na	89.3
25	PFOS	1763-23-1		498.989 > 80.294	6438		8.741		na	
26	M4PFOS	INT STD	10.03	503.032 > 80.306	5801		9.567		na	95.7
27	M8PFOS	INT STD	10.03	507.053 > 80.294	6966		9.834		na	98.3
28	PFDA	335-76-2	10.60	513.053 > 468.906	31721		9.022		na	90.2
29	M2PFDA	INT STD	10.60	515.053 > 469.934	35500		8.468		na	84.7
30	M6PFDA	INT STD	10.60	519.053 > 473.931	41357		9.648		na	96.5
31	8:2FTS	39108-34-4	10.59	526.989 > 506.946	1814		12.122		na	126.3
32	M2-8:2FTS	INT STD	10.59	529.117 > 80.953	440		6.142		na	61.4
33	PFNS	68259-12-1	10.63	548.989 > 80.249	4694		9.703		na	101.1
34	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	5014		9.149		na	91.5
35	NMeFOSAA	2355-31-9	10.93	570.053 > 418.917	4838		9.185		na	91.9
36	PFUnA	2058-94-8	11.13	562.989 > 518.903	32007		9.488		na	94.9
37	M7-PFUDA	INT STD	11.13	570.053 > 524.923	32776		9.345		na	93.4
38	PFDS	335-77-3	11.14	598.926 > 80.314	4926		9.080		na	94.1
39	FOSA	754-91-6	11.06	497.989 > 78.245	15536		9.252		na	92.5

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

ID: WG1101624-2,537IMED
Name: I6058
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	M8FOSA	INT STD	11.06	506.053 > 78.286	20564		10.872		na	108.7
41	PFDoA	307-55-1	11.59	612.989 > 568.967	32551		10.661		na	106.6
42	MPFDOA	INT STD	11.59	614.989 > 569.92	31187		8.593		na	85.9
43	PFTrDA	72629-94-8	11.99	663.053 > 618.969	24569		8.521		na	85.2
44	PFTA	376-06-7	12.33	713.053 > 668.976	17647		9.774		na	97.7
45	M2PFTEDA	INT STD	12.33	715.053 > 669.945	21167		7.419		na	74.2

all concentration units in (ng/mL)

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Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 22 Mar 2018 09:28:35
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Name: I6058
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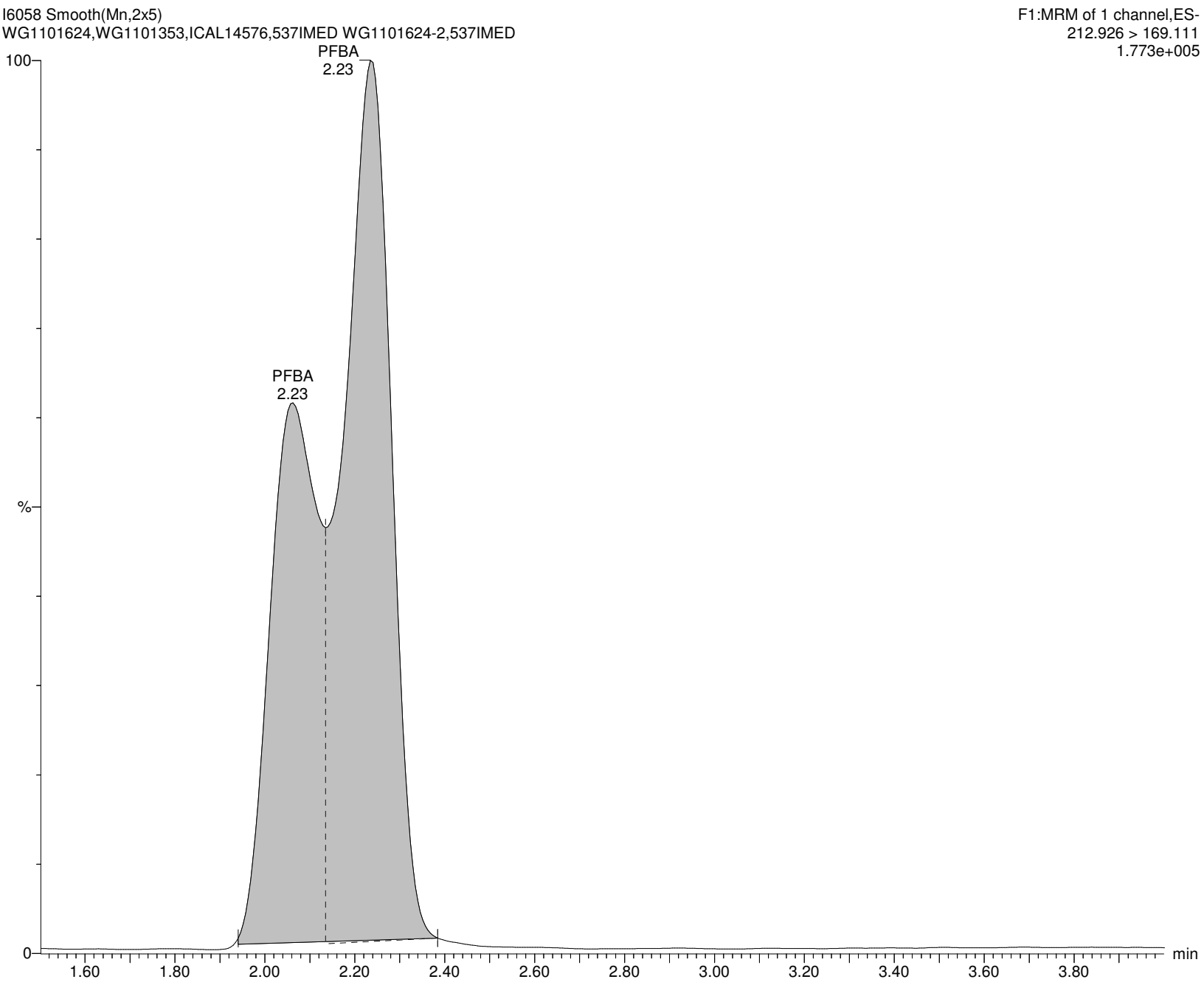
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 29-Mar-2018
Time: 14:27:26
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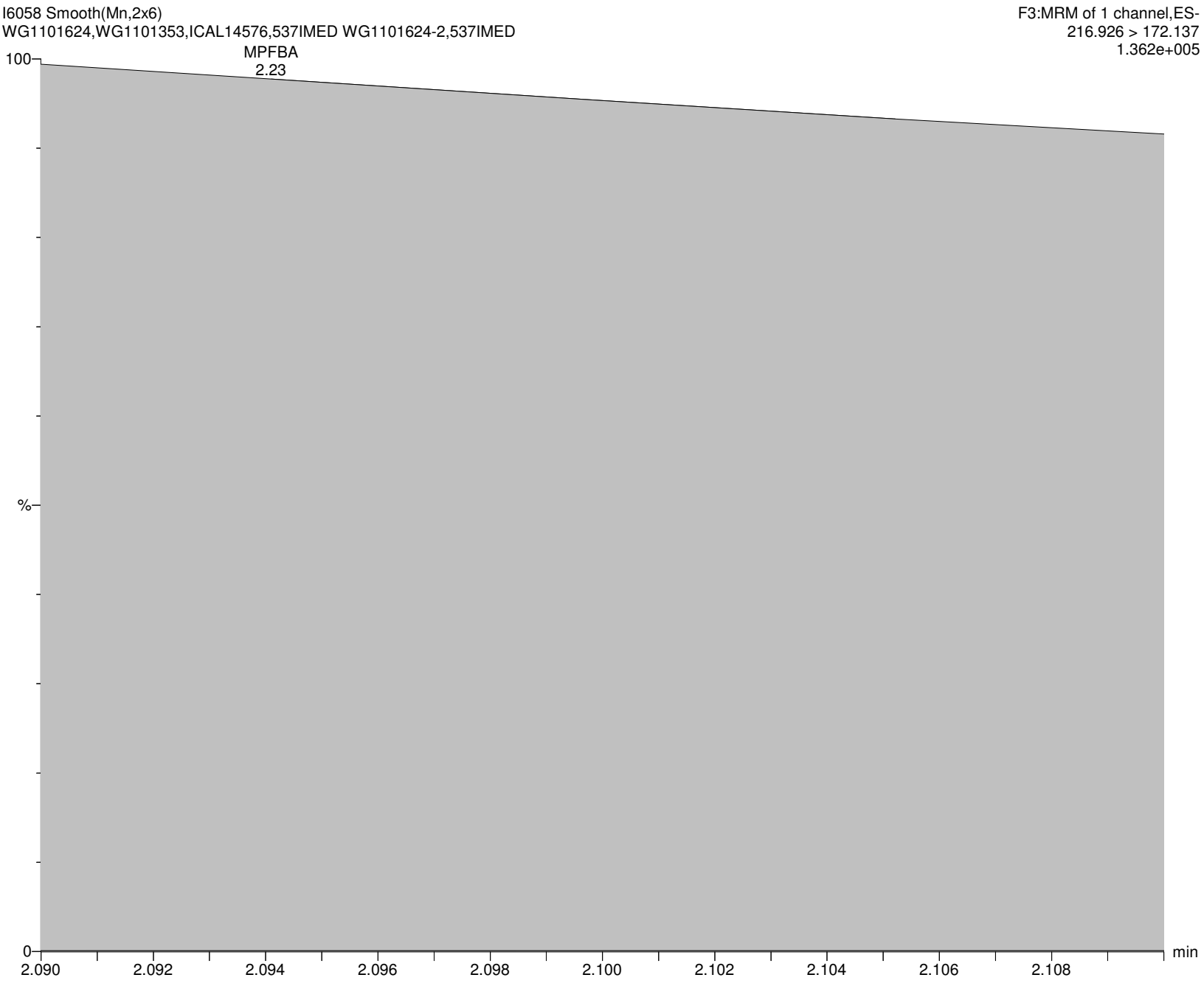
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

MPFBA



all concentration units in (ng/mL)

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Time: 14:27:26
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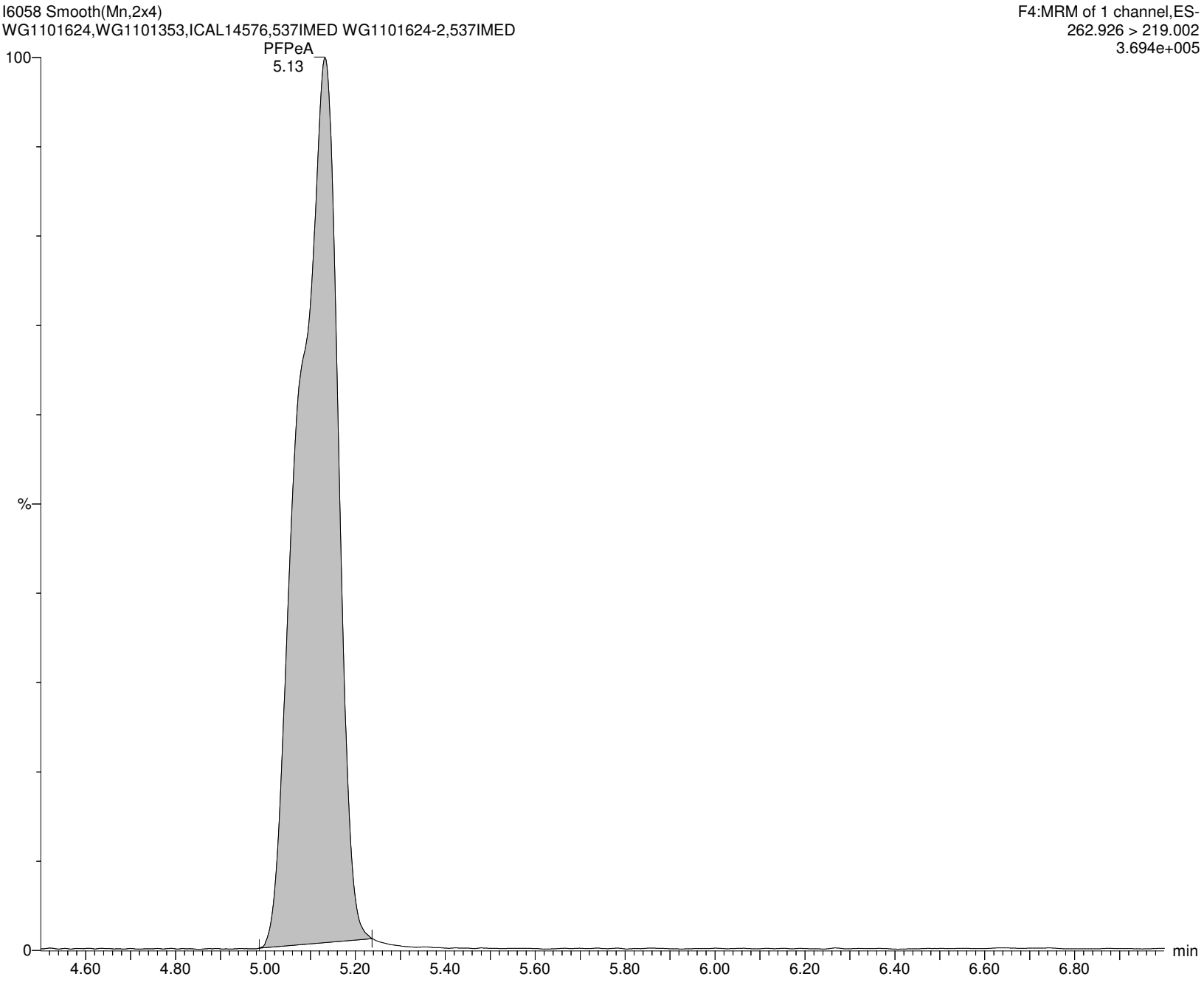
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
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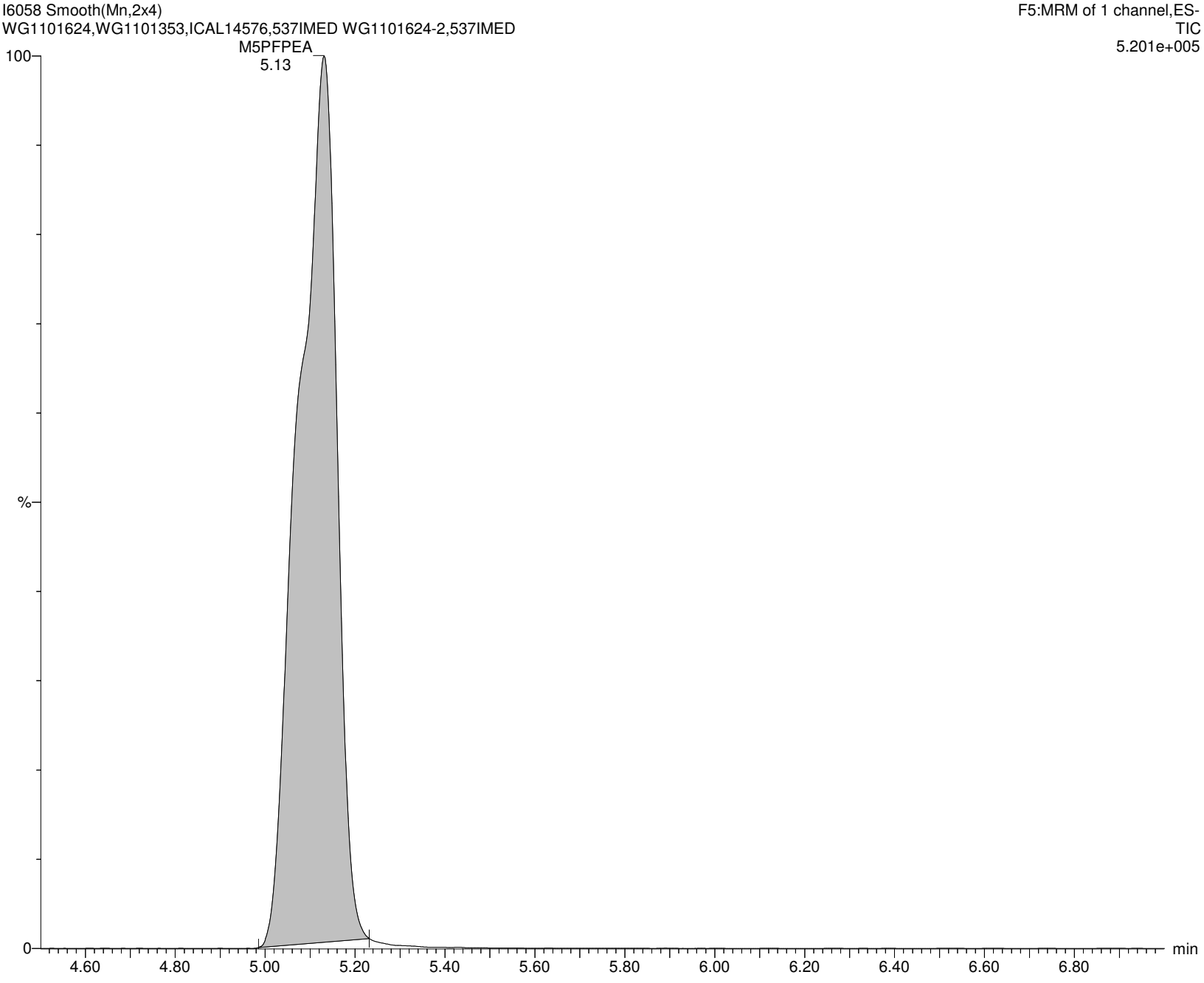
Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

M5PFPEA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
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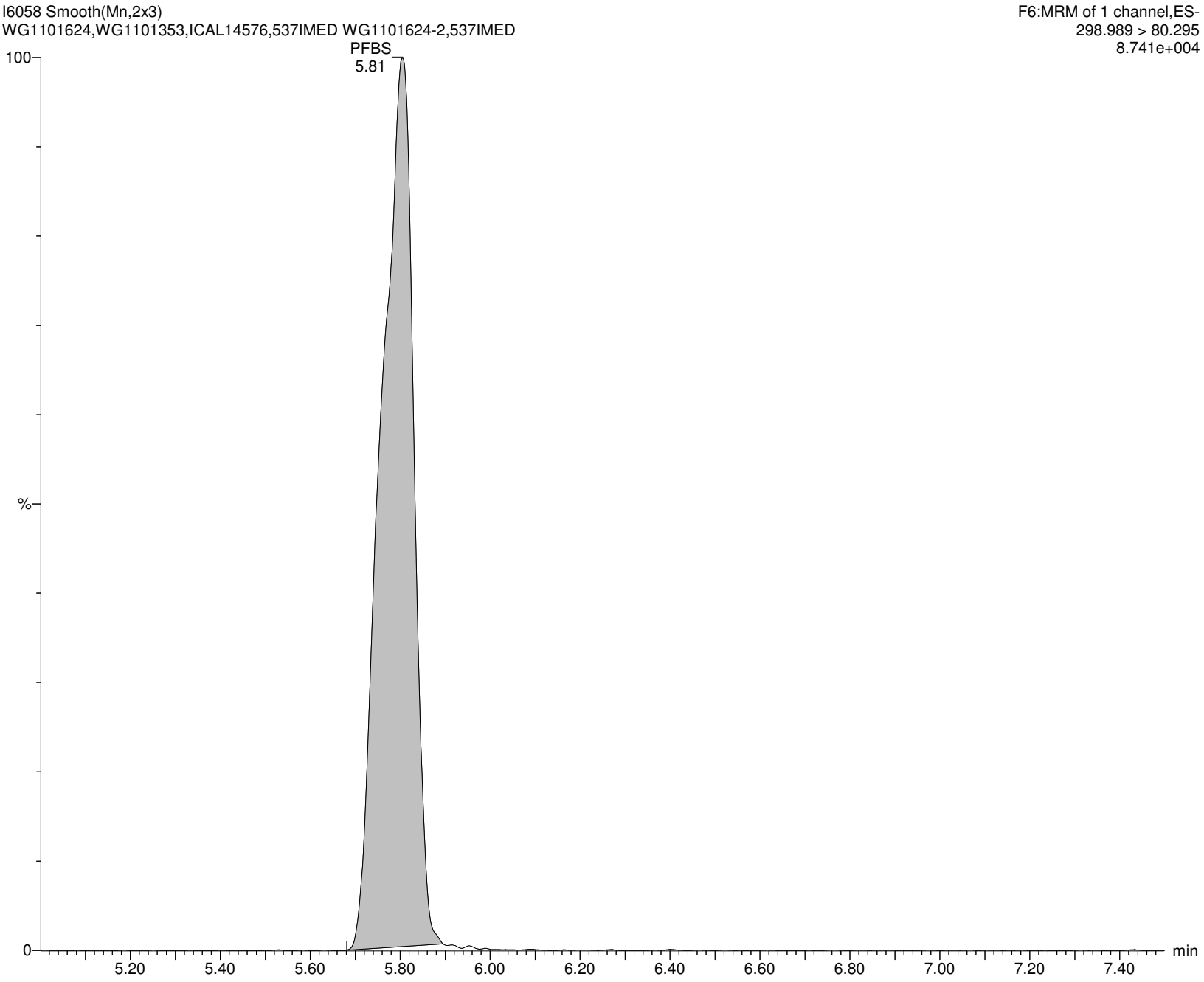

all concentration units in (ng/mL)

Alpha Analytical Inc.
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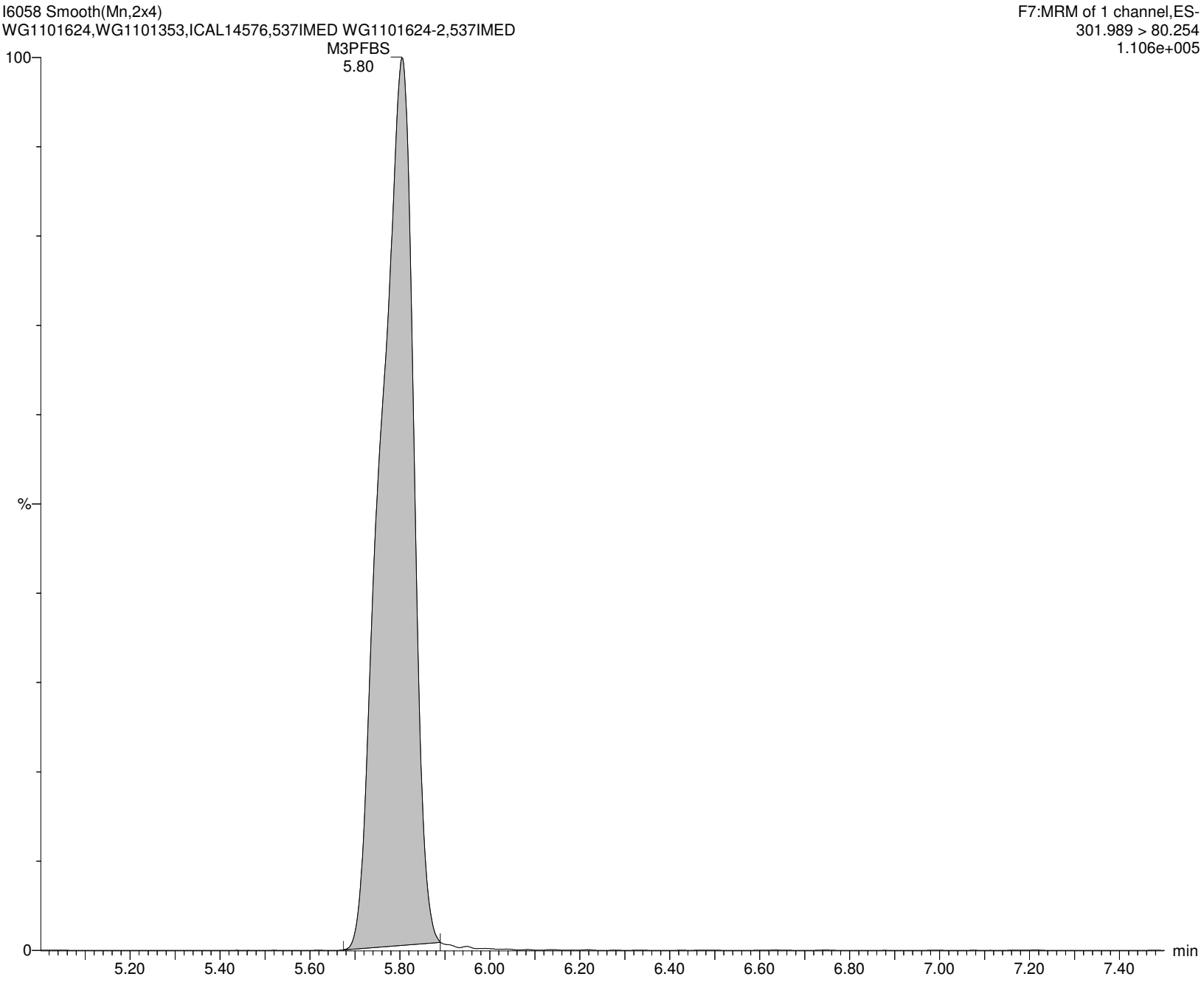

all concentration units in (ng/mL)

Alpha Analytical Inc.
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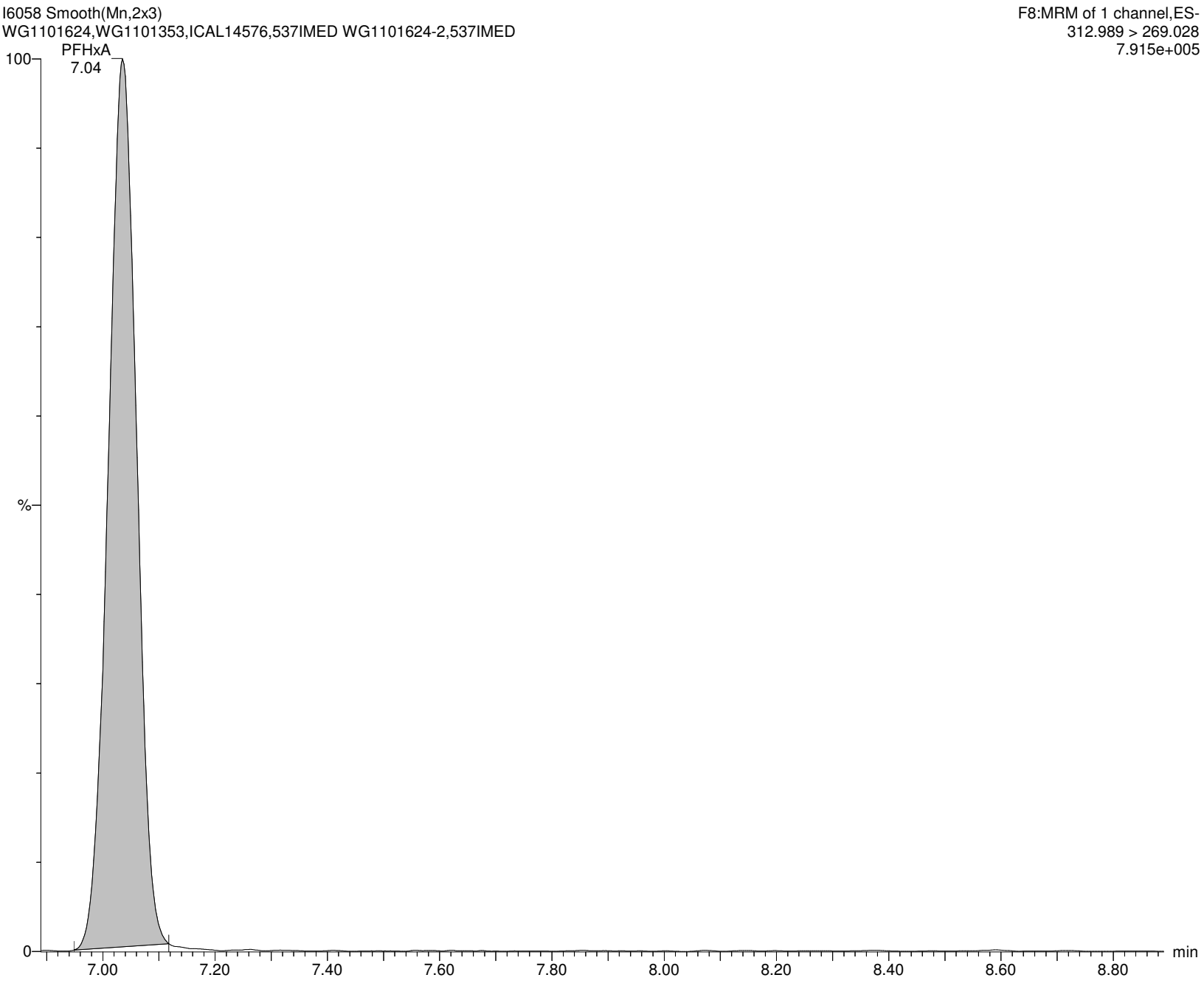

all concentration units in (ng/mL)

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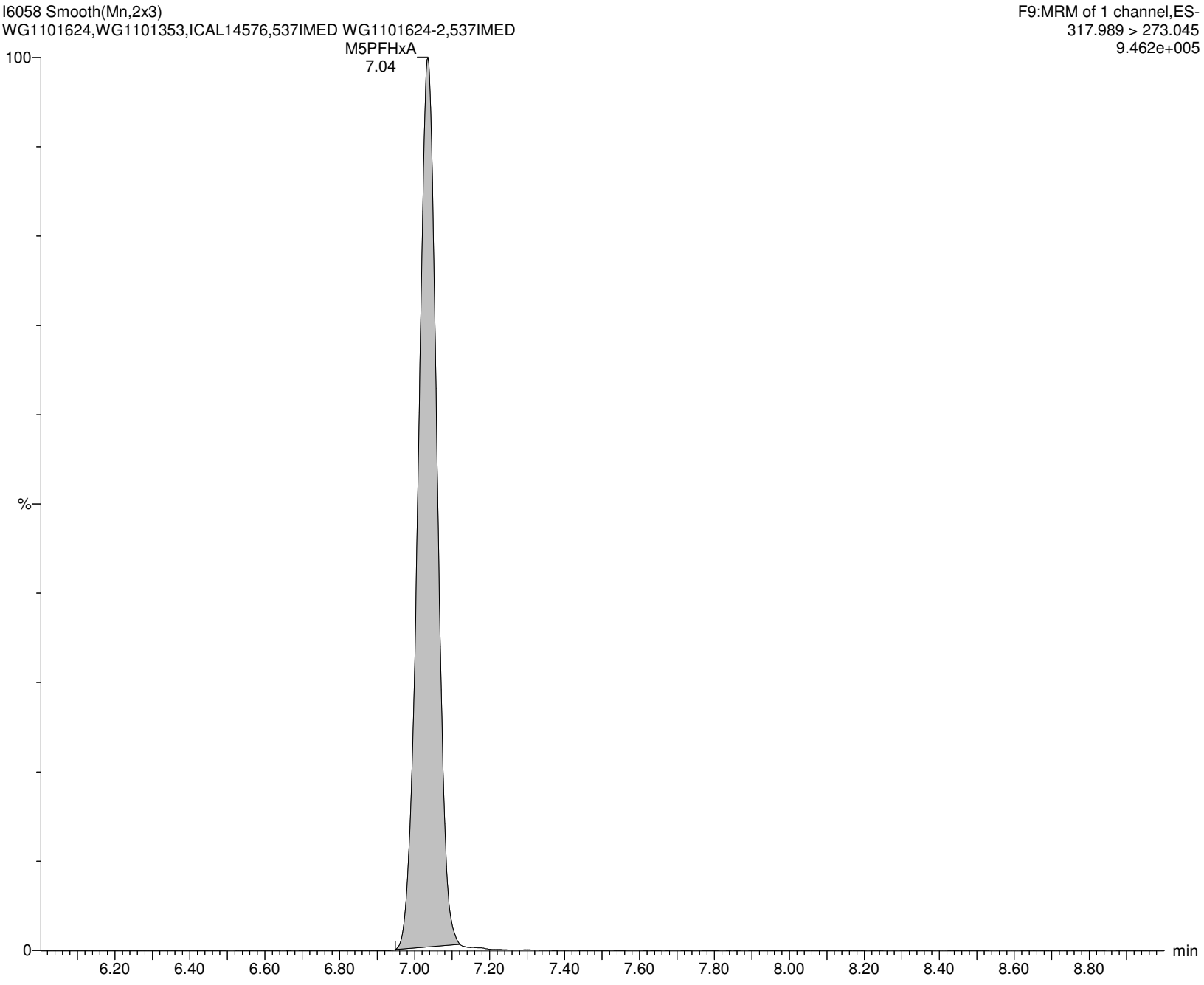

all concentration units in (ng/mL)

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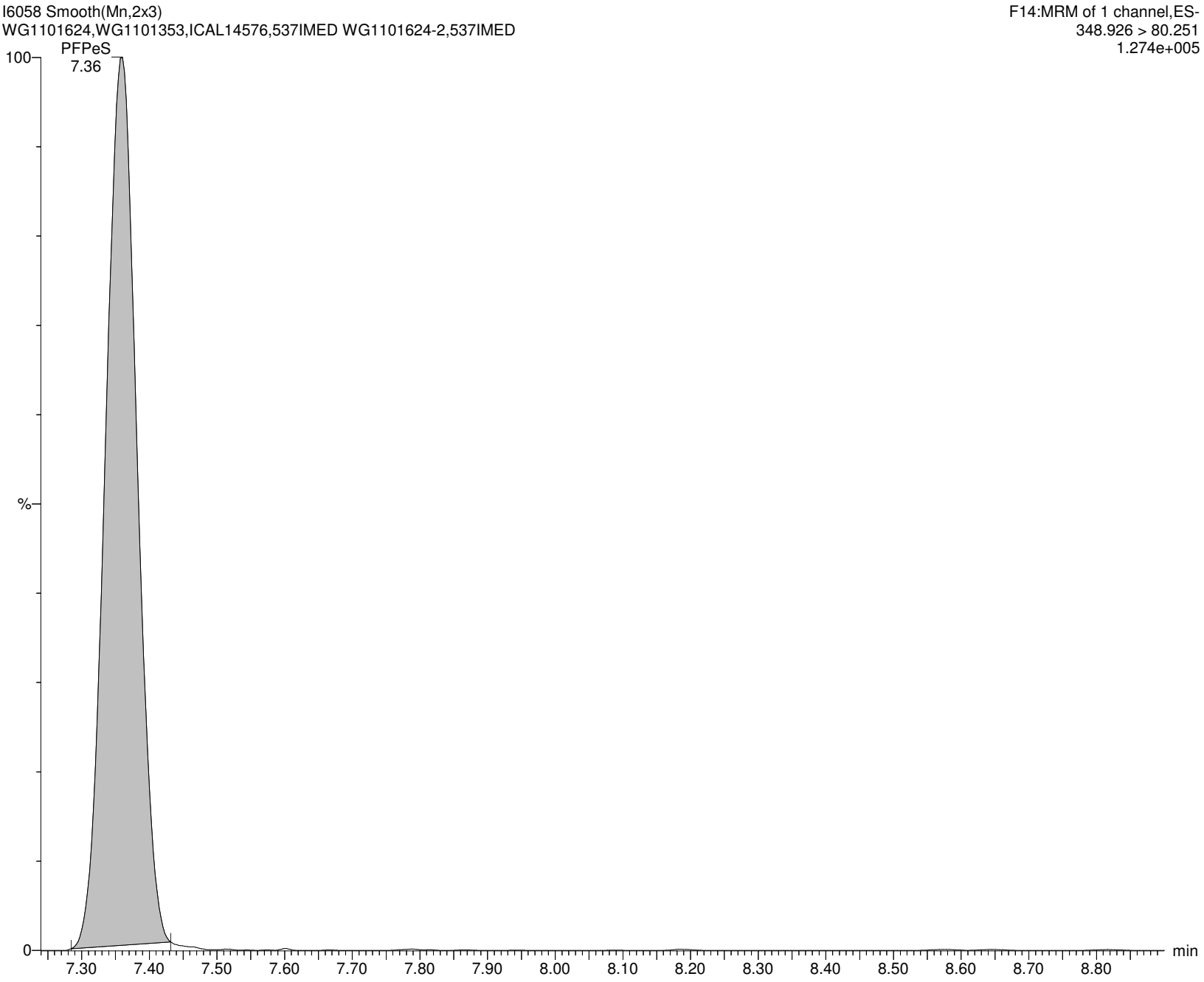

all concentration units in (ng/mL)

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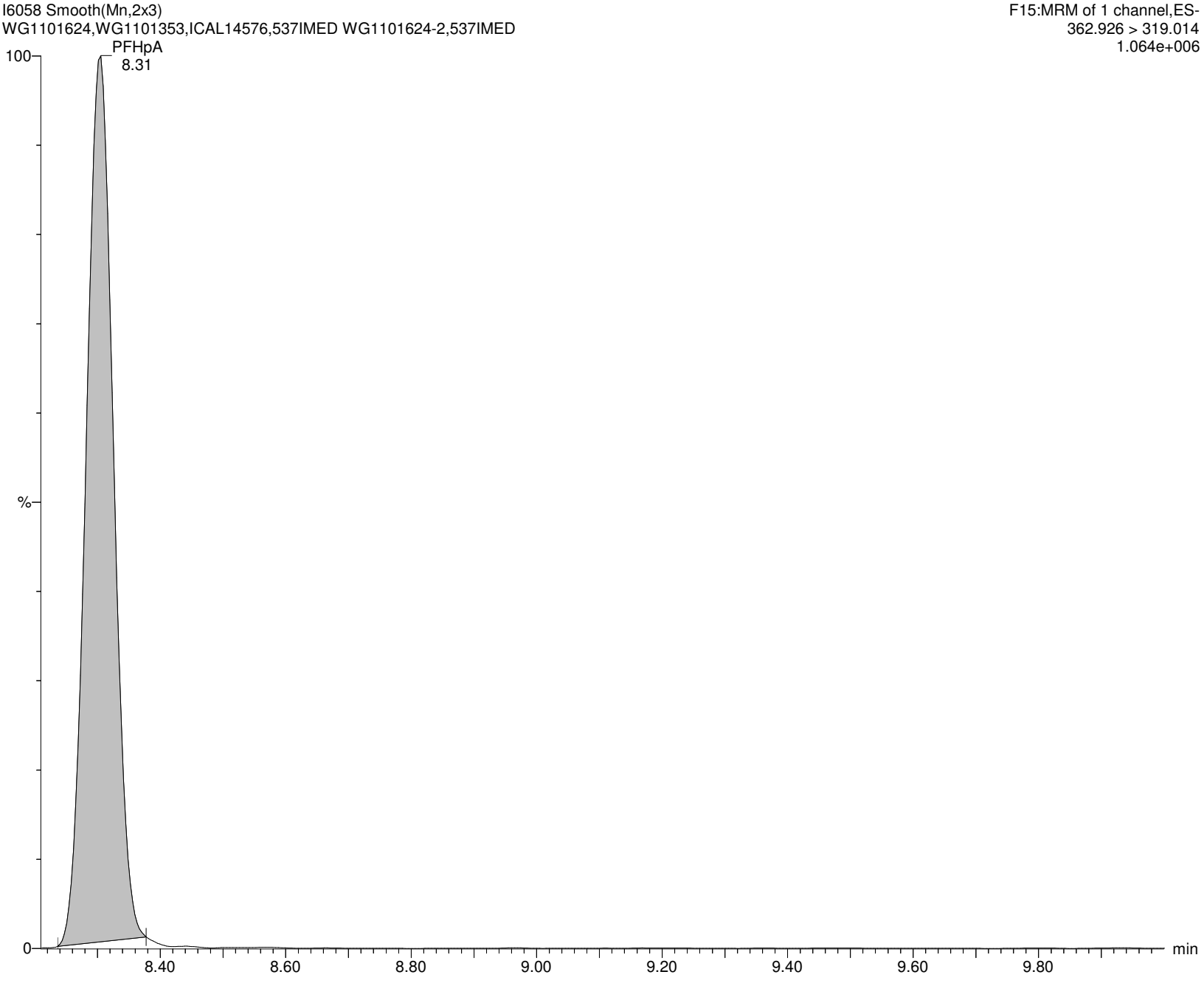

all concentration units in (ng/mL)

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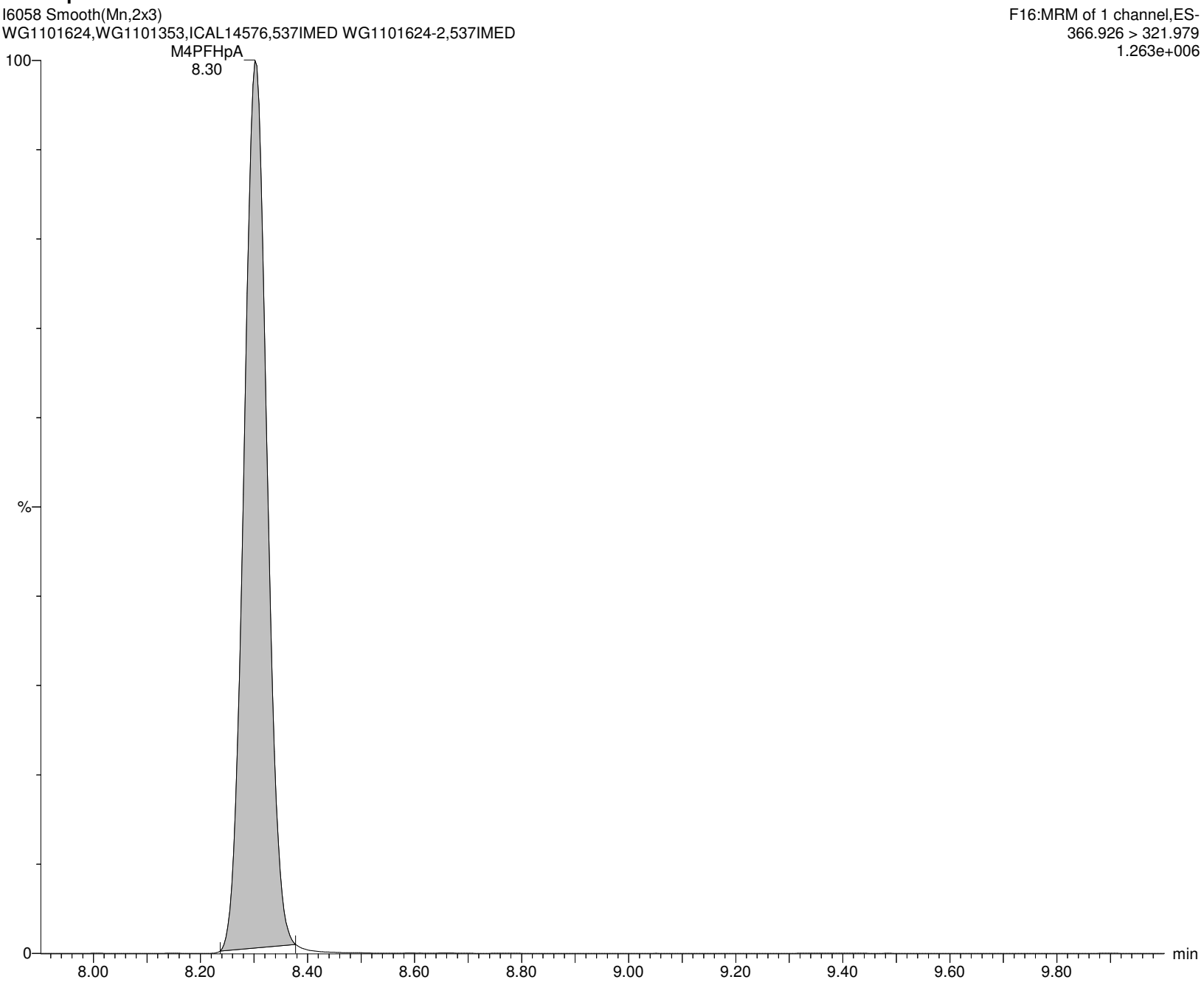

all concentration units in (ng/mL)

Alpha Analytical Inc.
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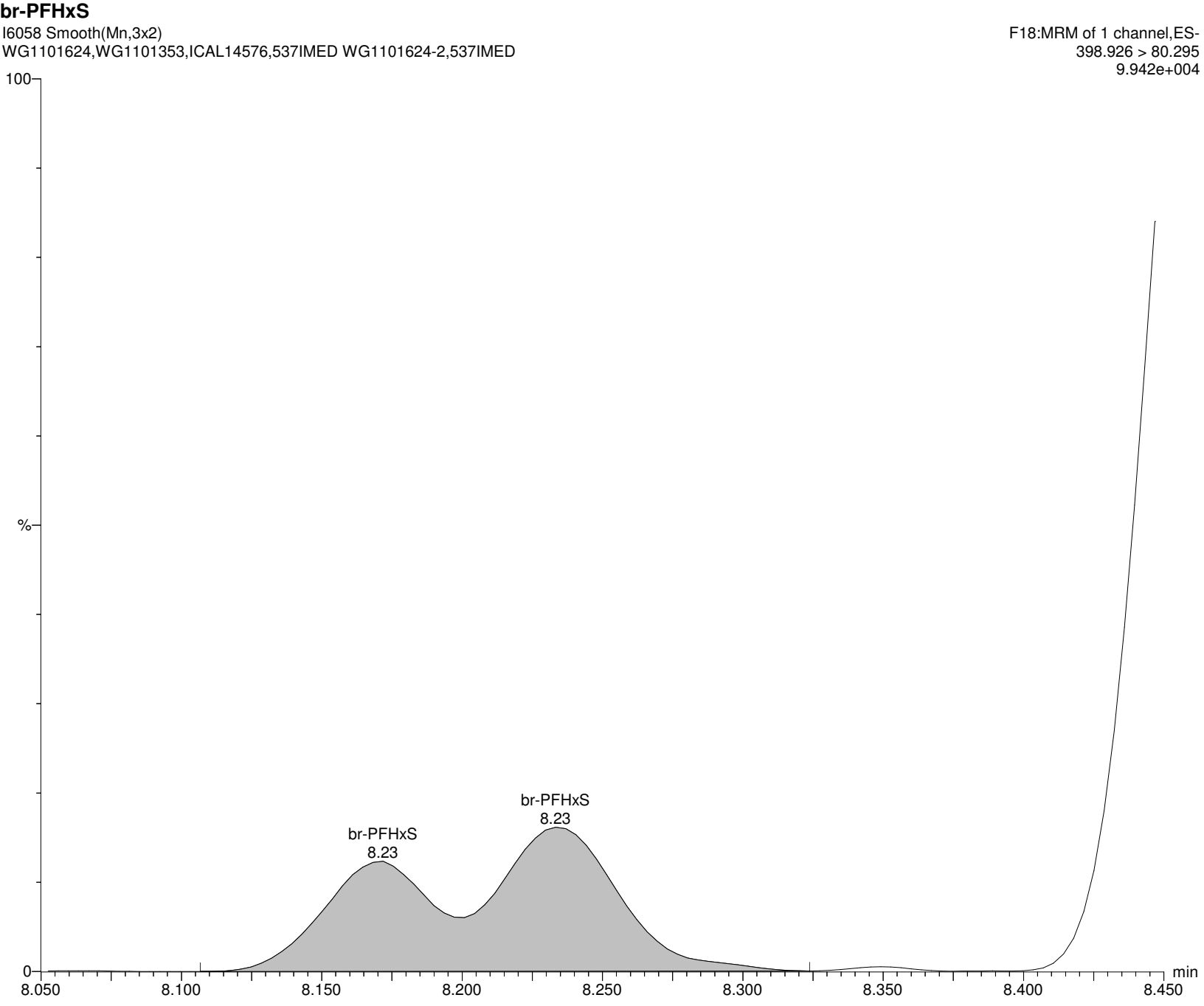

all concentration units in (ng/mL)

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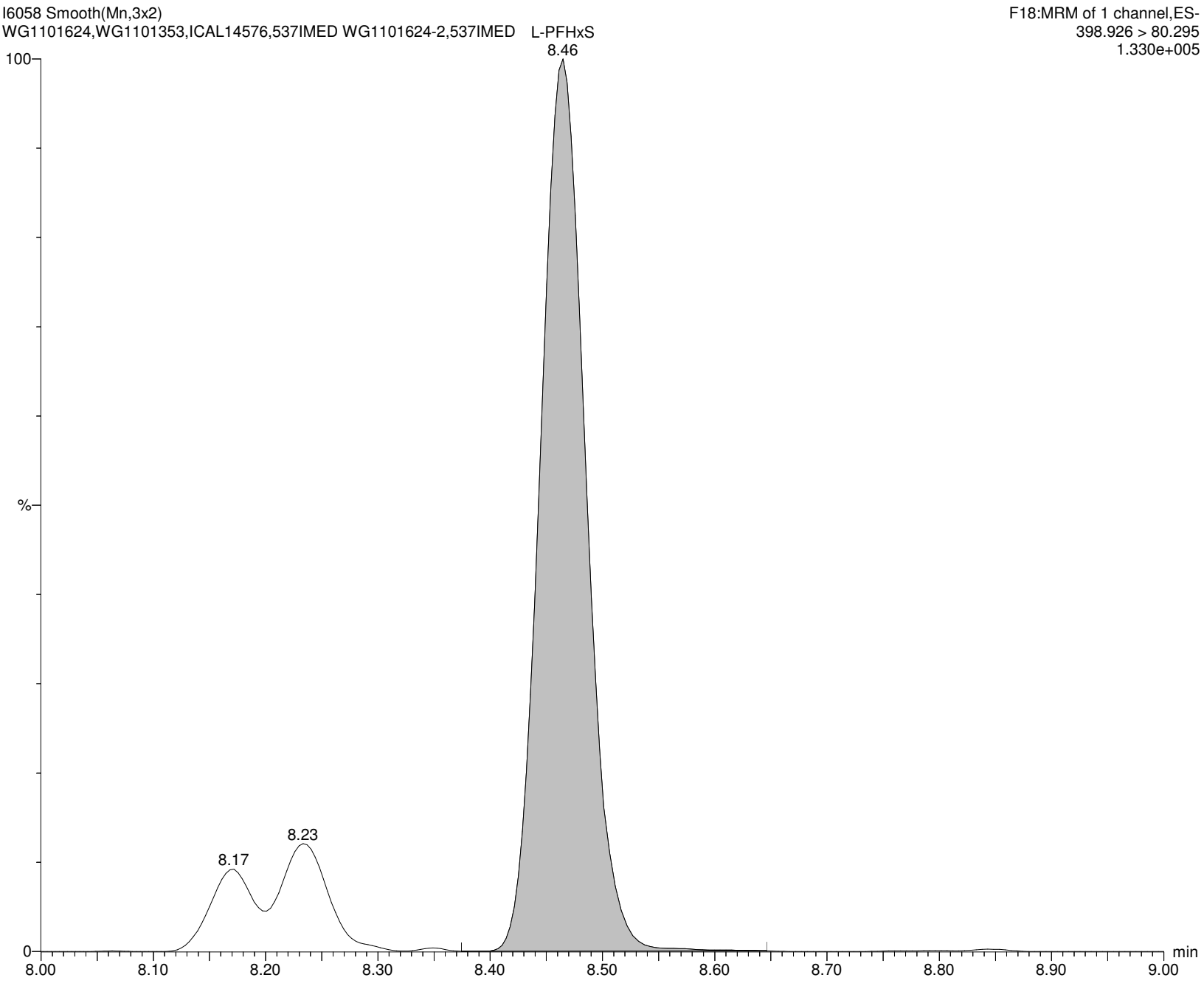

all concentration units in (ng/mL)

Alpha Analytical Inc.
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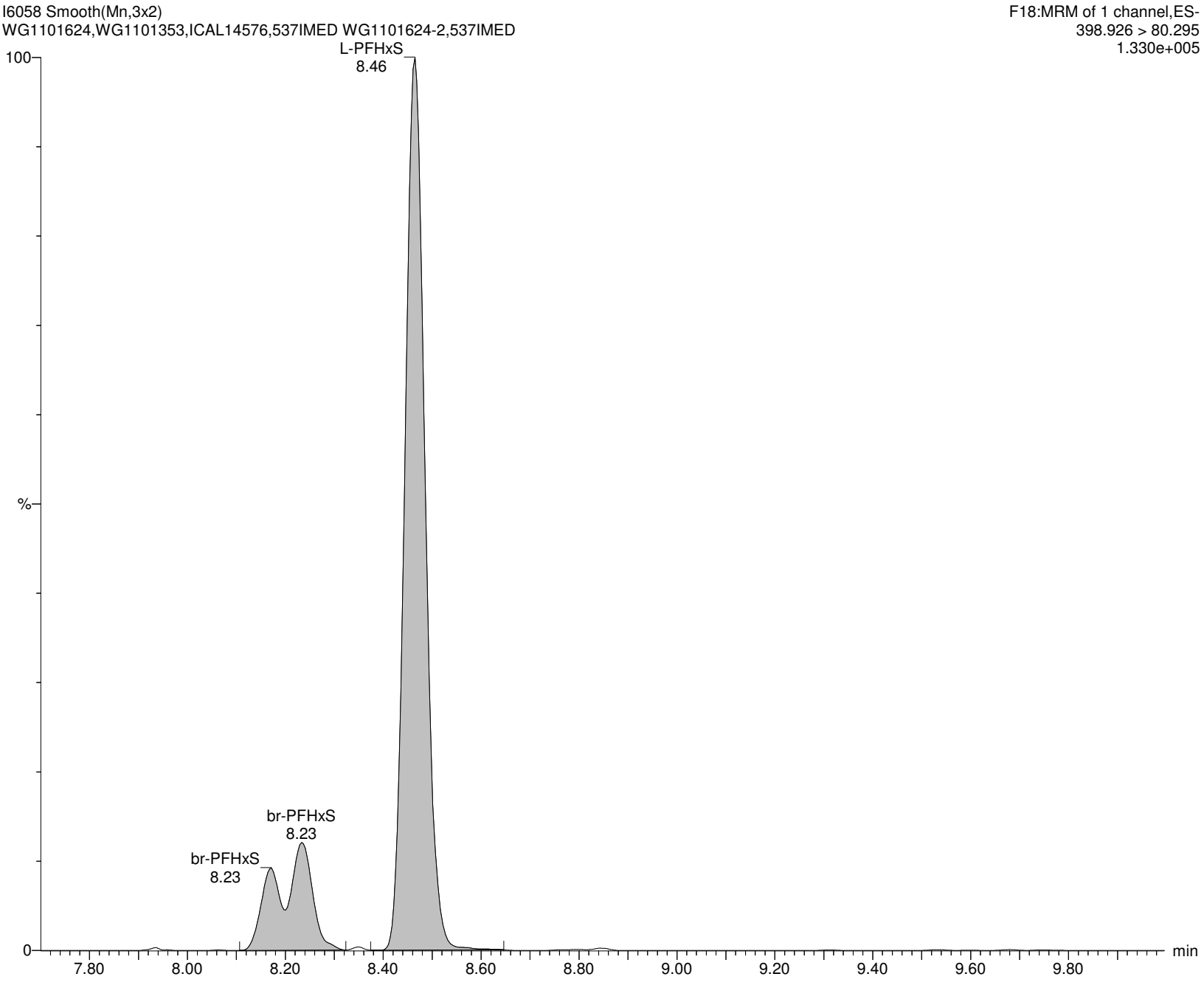

all concentration units in (ng/mL)

Alpha Analytical Inc.
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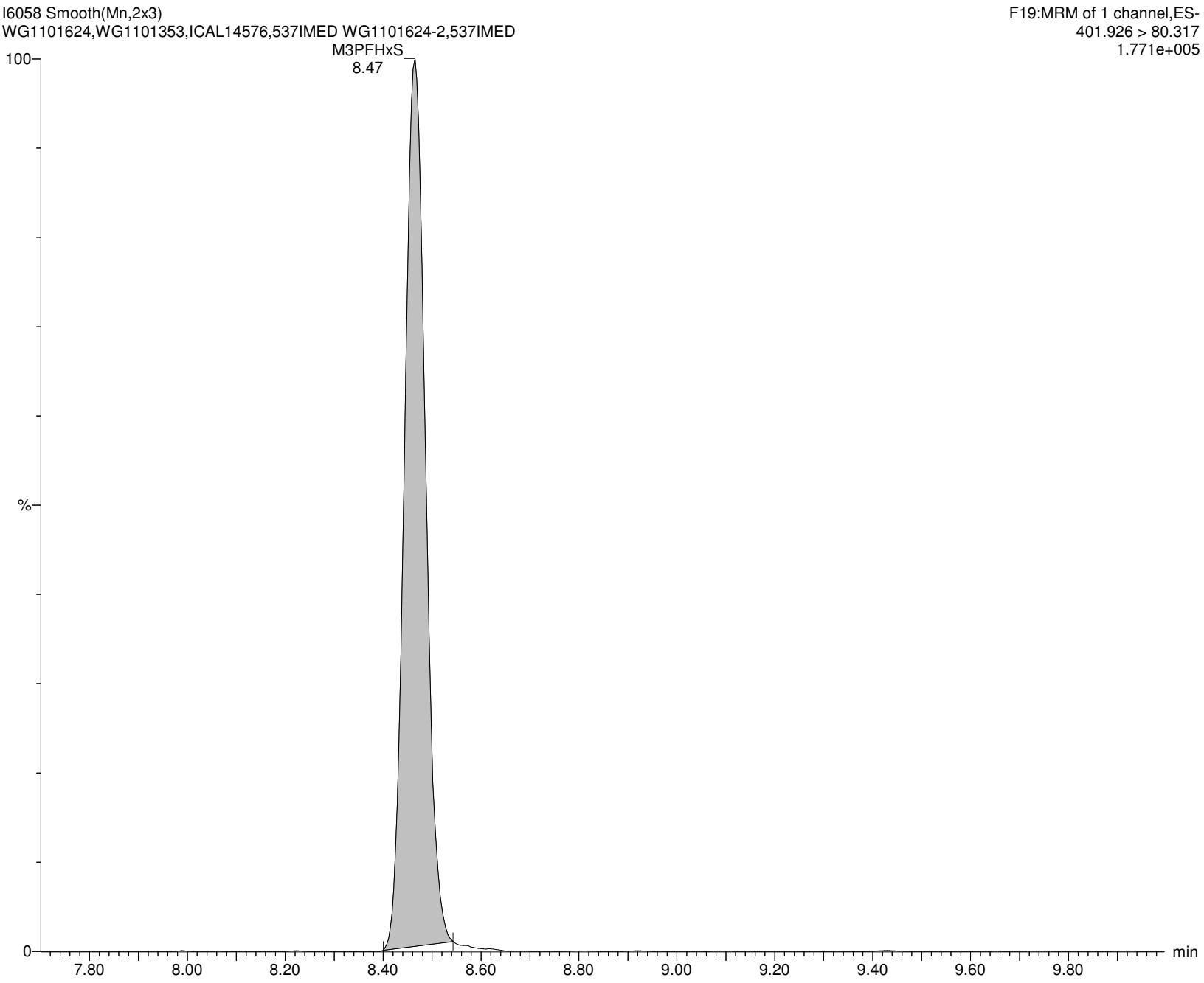

all concentration units in (ng/mL)

Alpha Analytical Inc.
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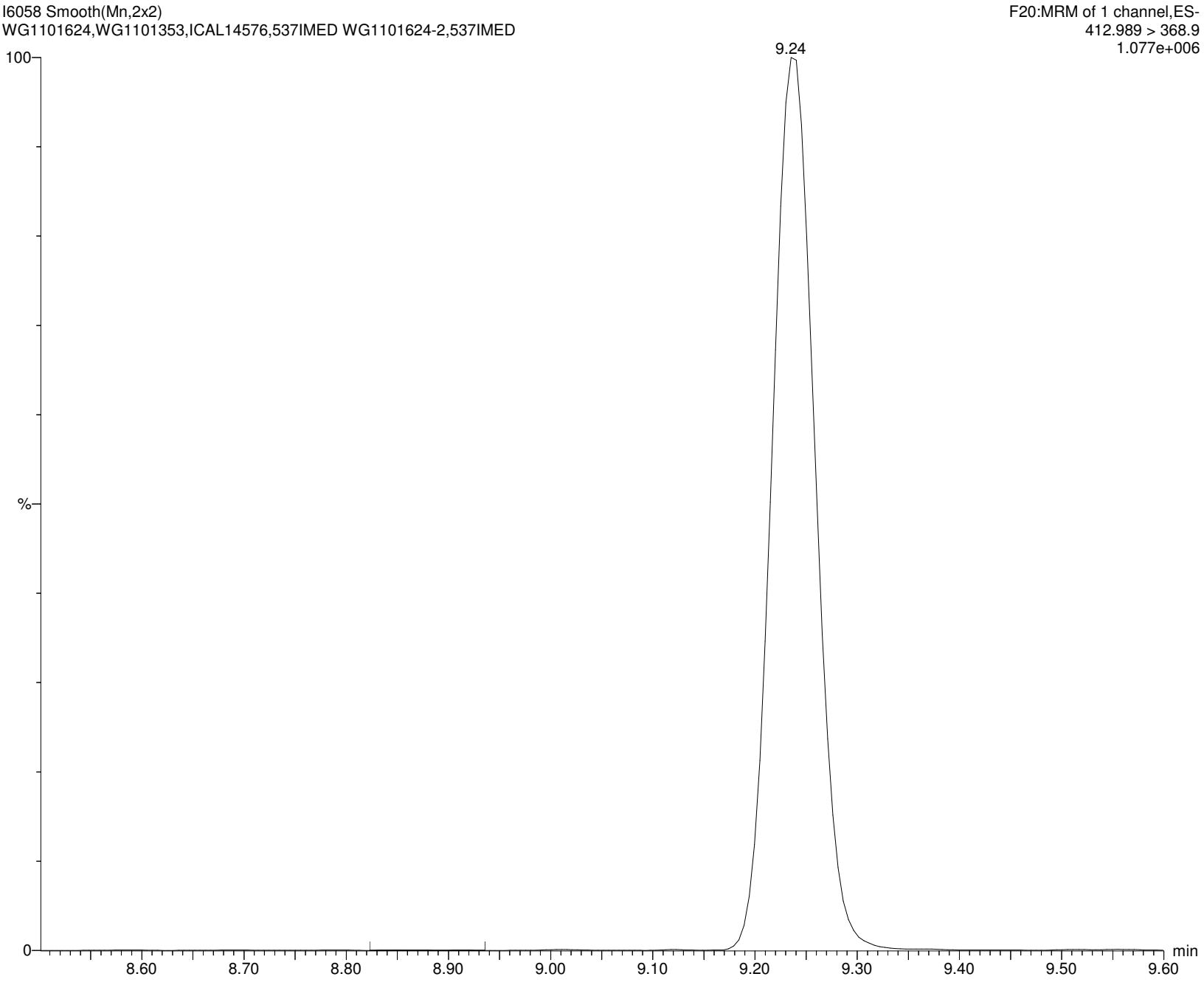

all concentration units in (ng/mL)

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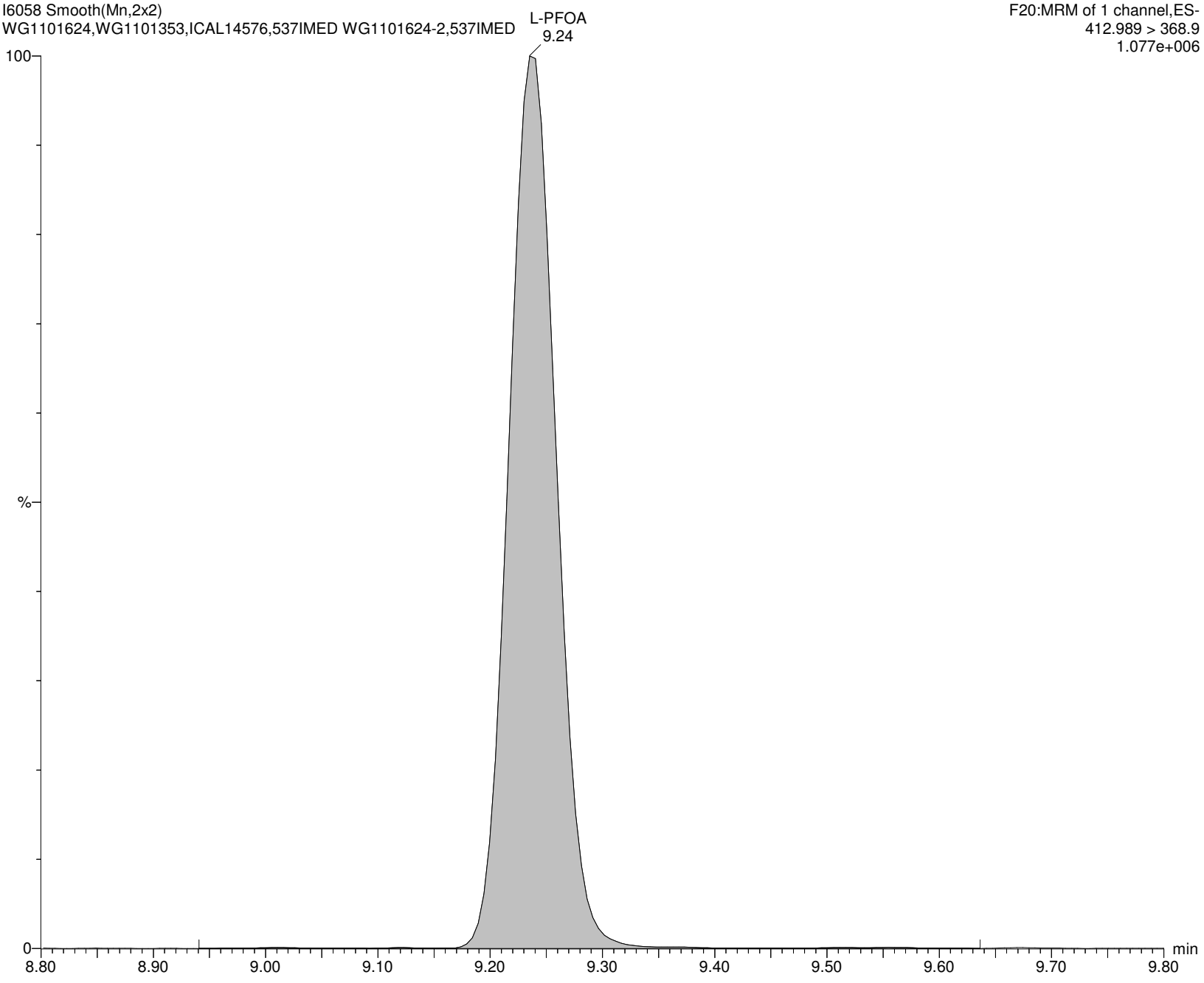
L-PFOA



all concentration units in (ng/mL)

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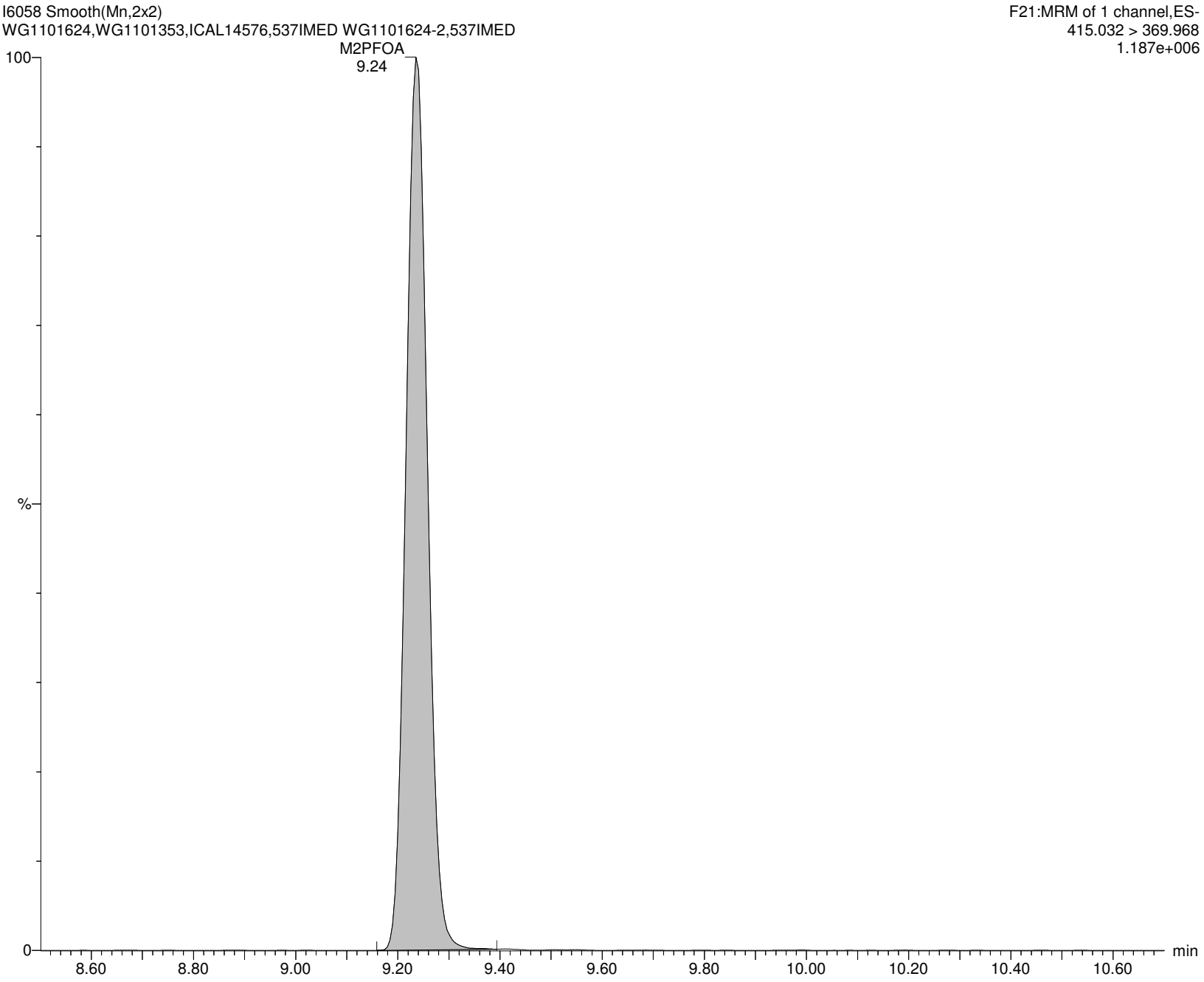

all concentration units in (ng/mL)

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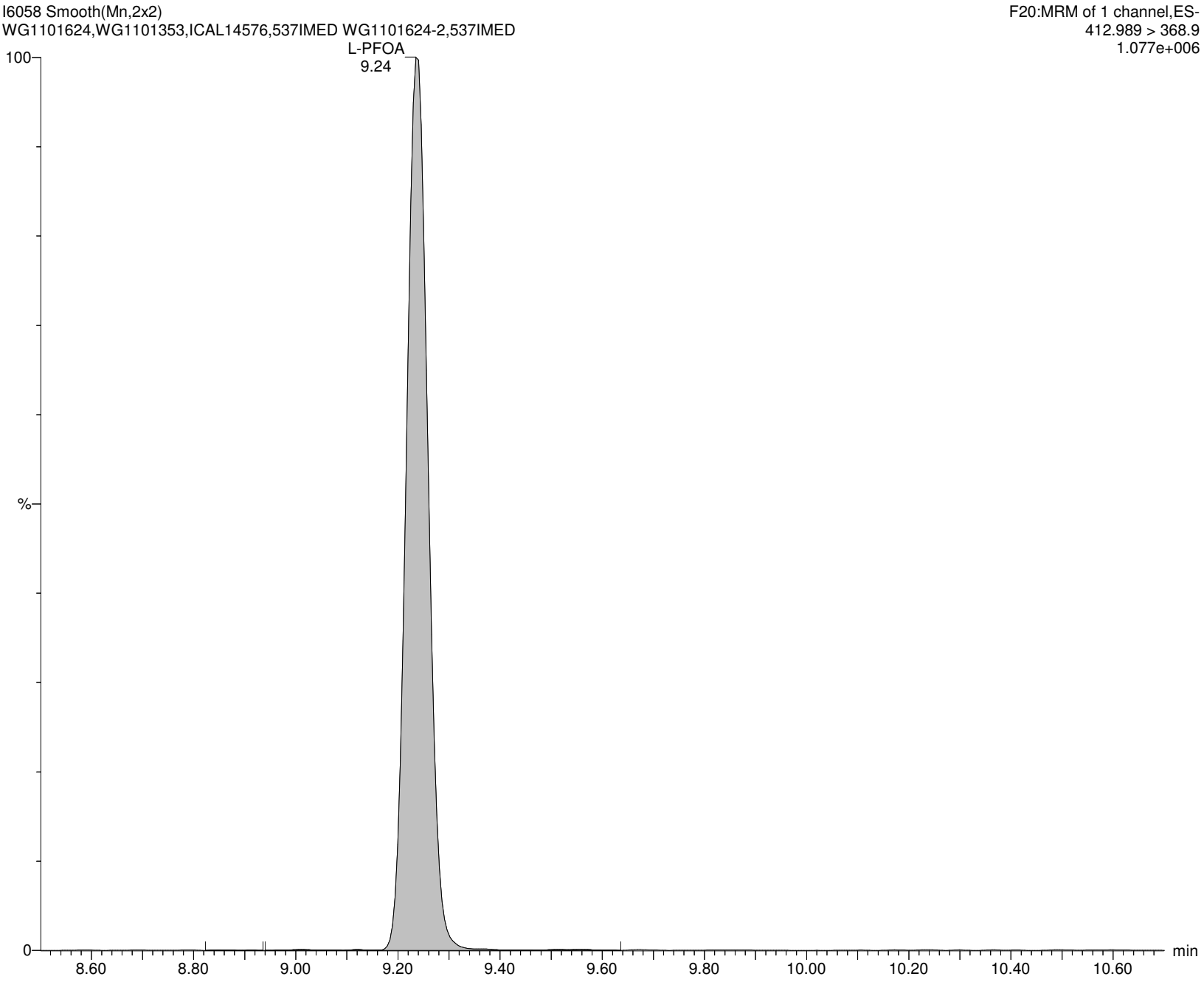

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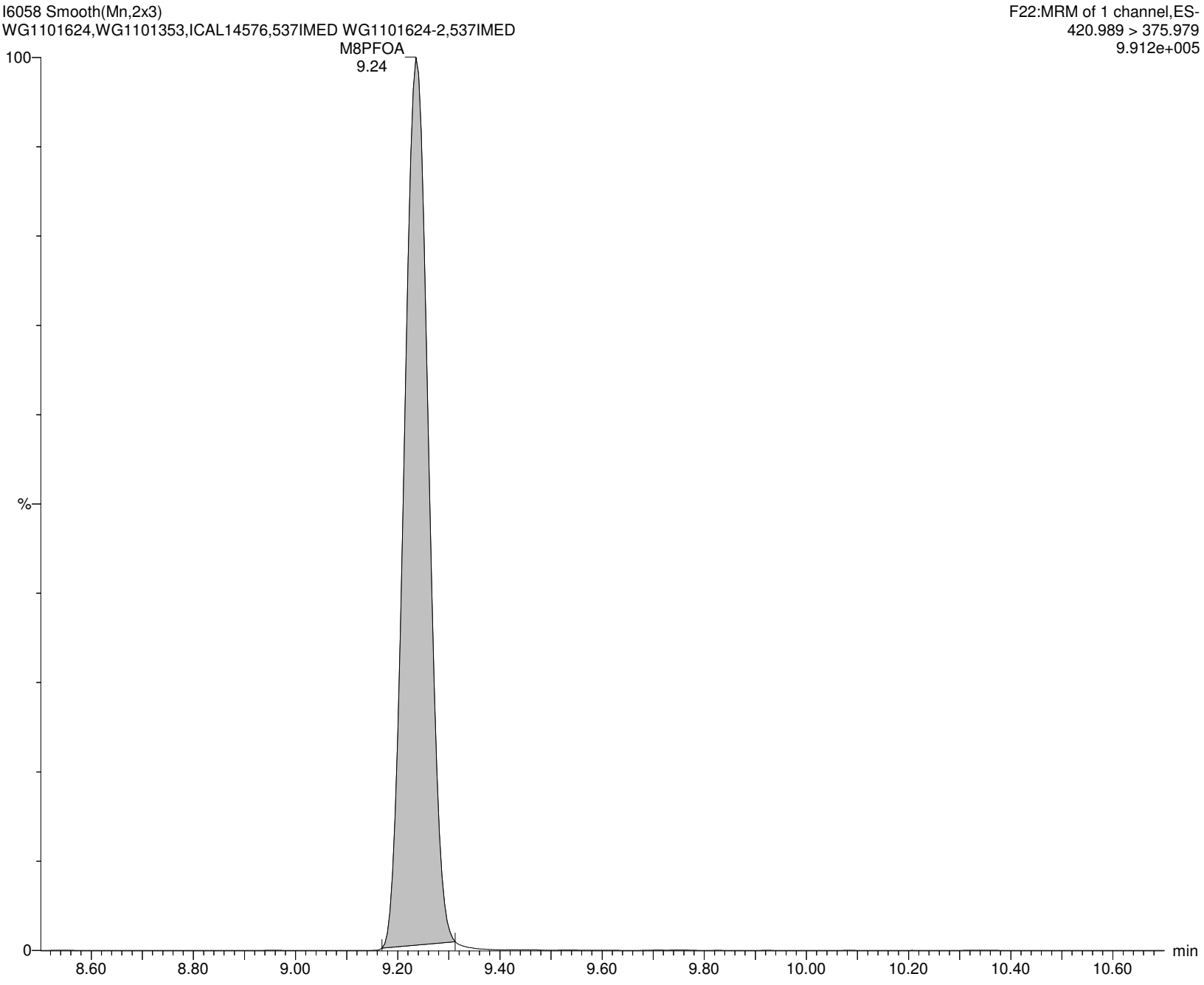

all concentration units in (ng/mL)

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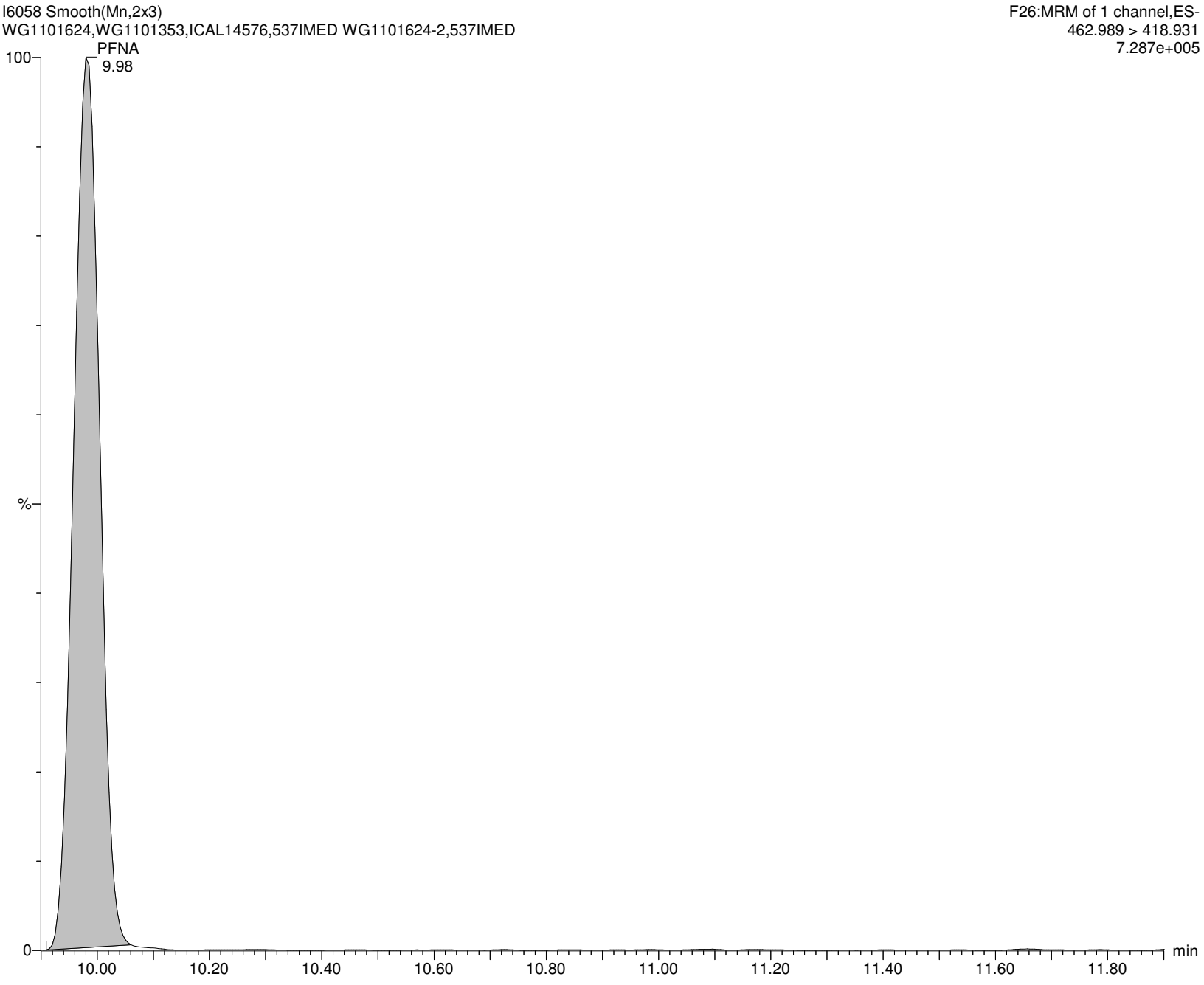

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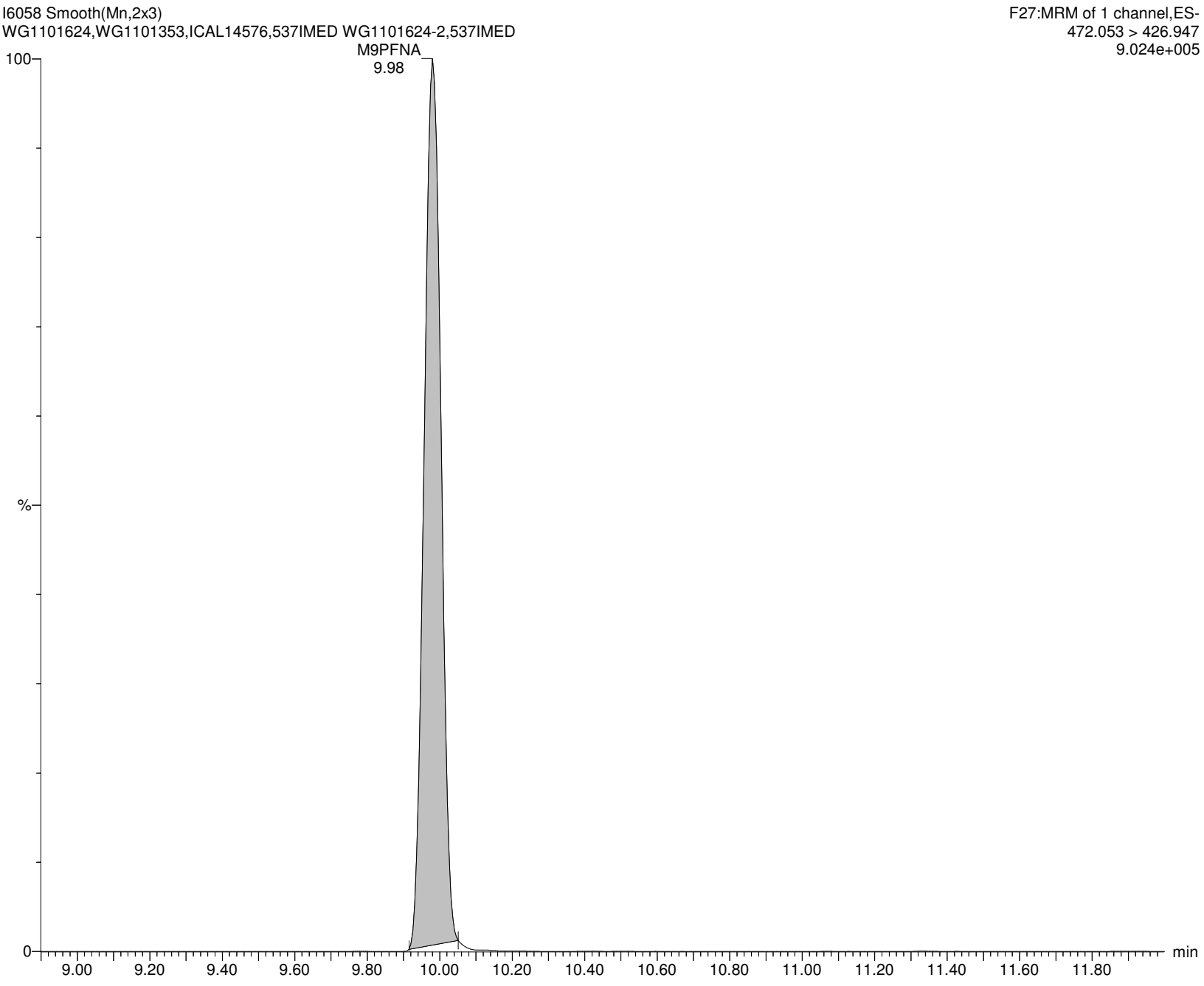
M9PFNA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
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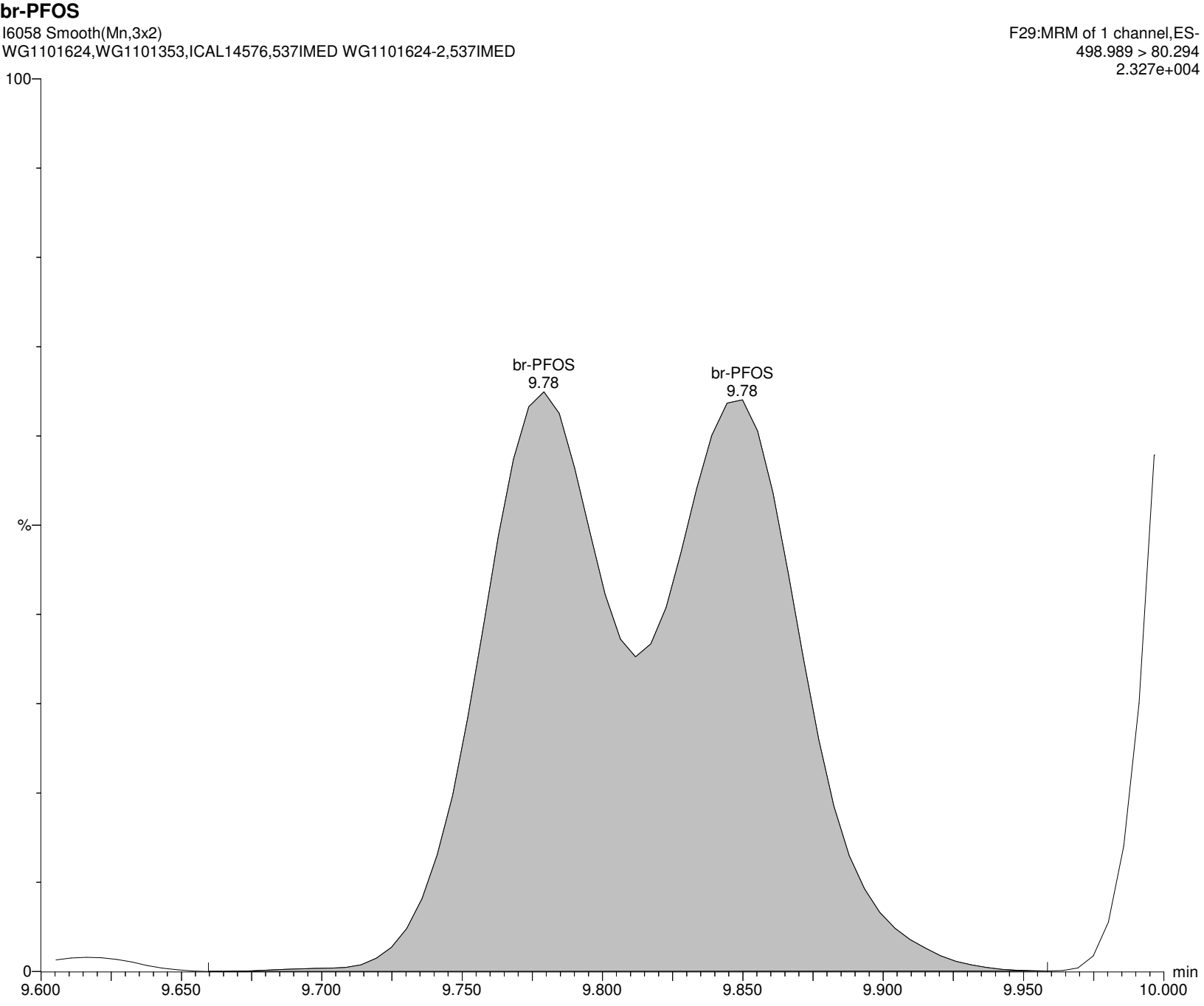

all concentration units in (ng/mL)

Alpha Analytical Inc.
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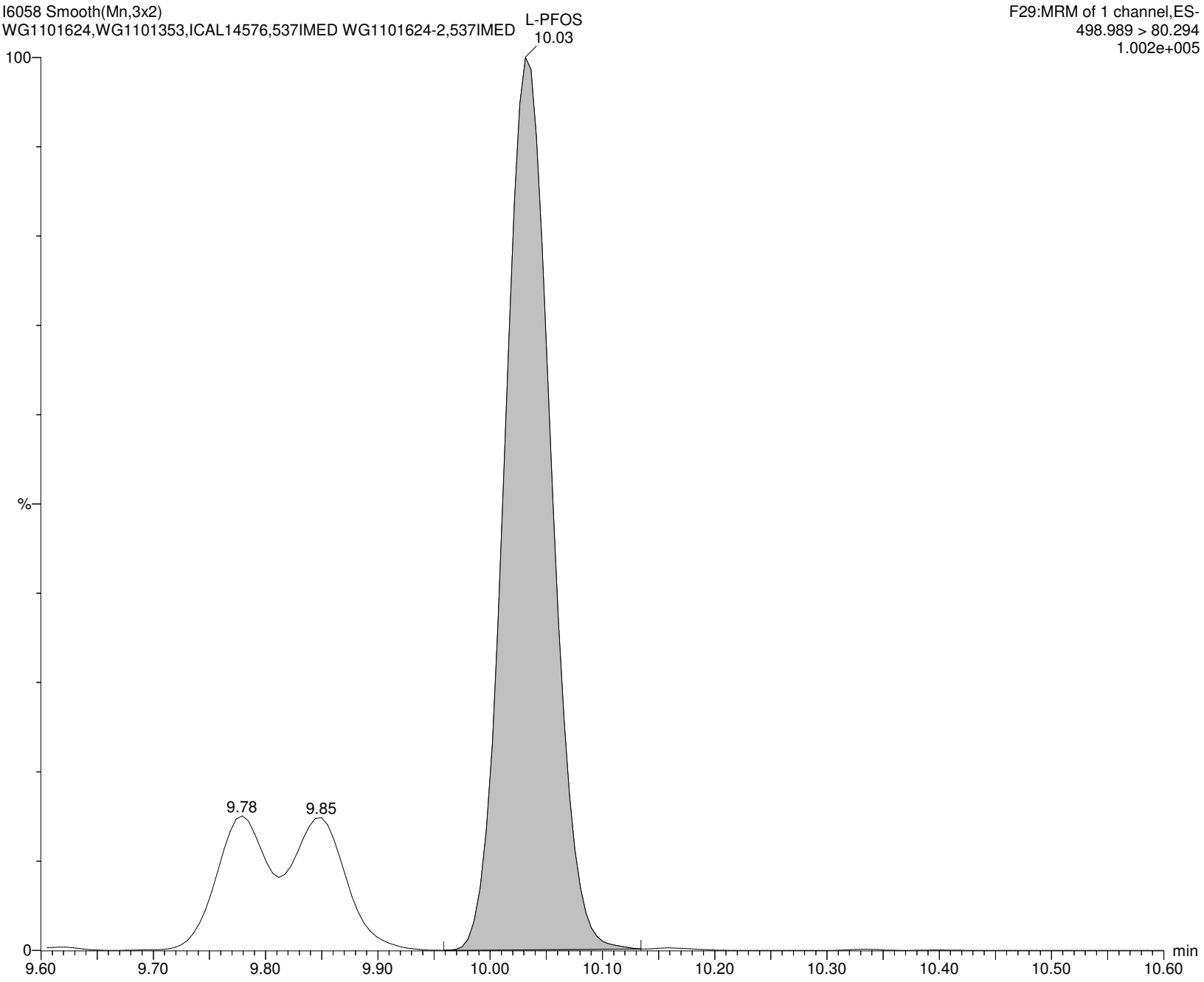

all concentration units in (ng/mL)

Alpha Analytical Inc.
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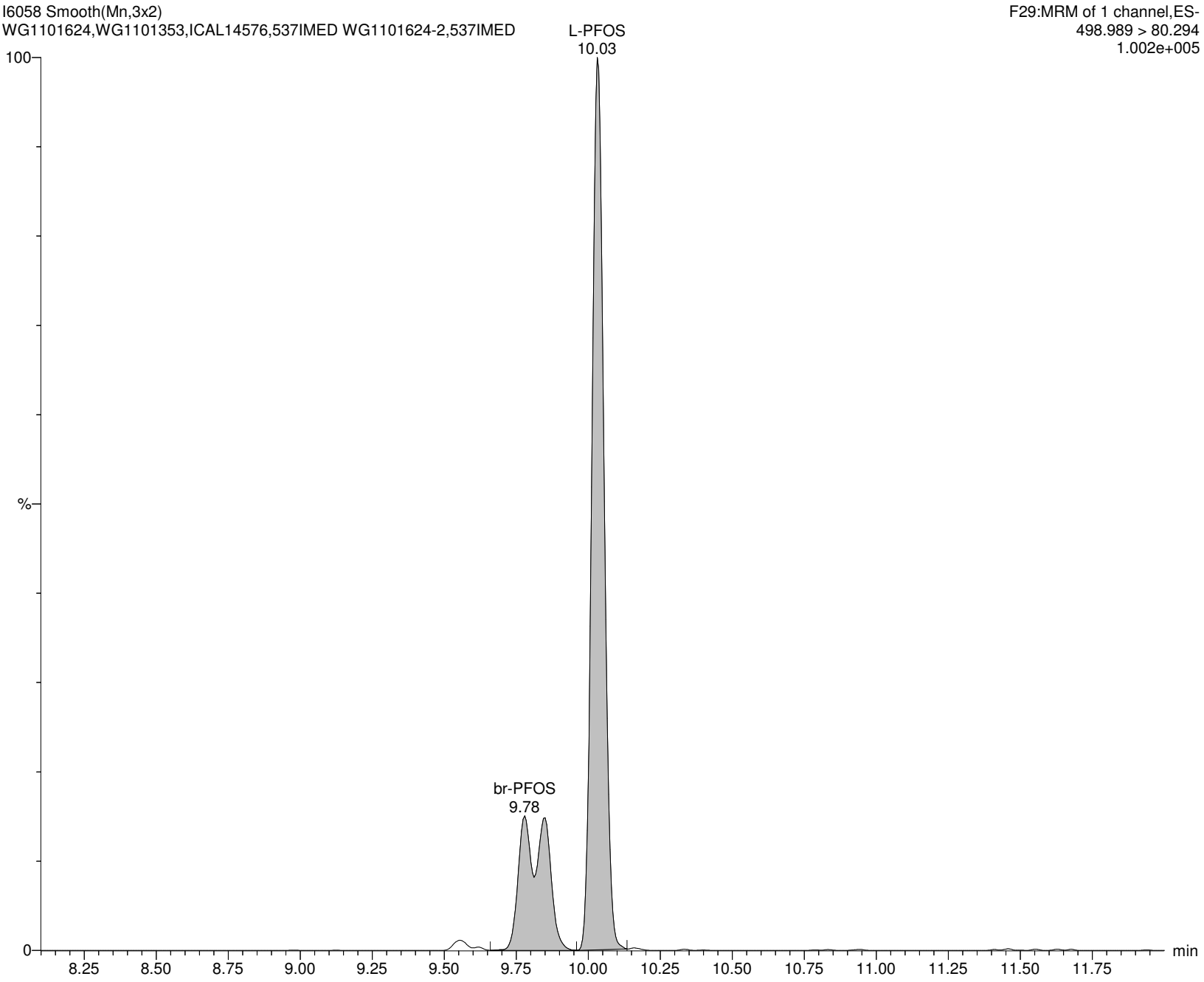

all concentration units in (ng/mL)

Alpha Analytical Inc.
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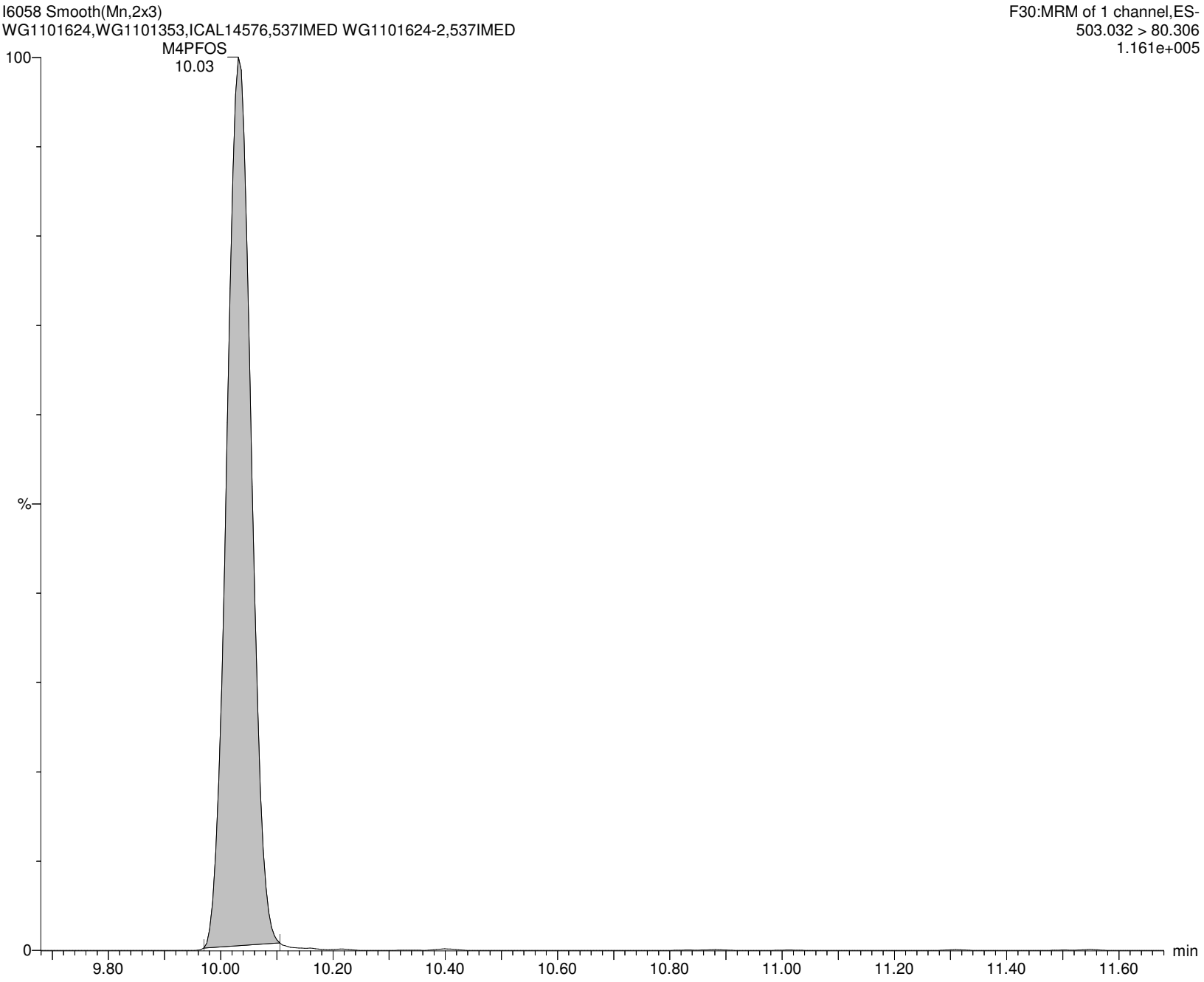

all concentration units in (ng/mL)

Alpha Analytical Inc.
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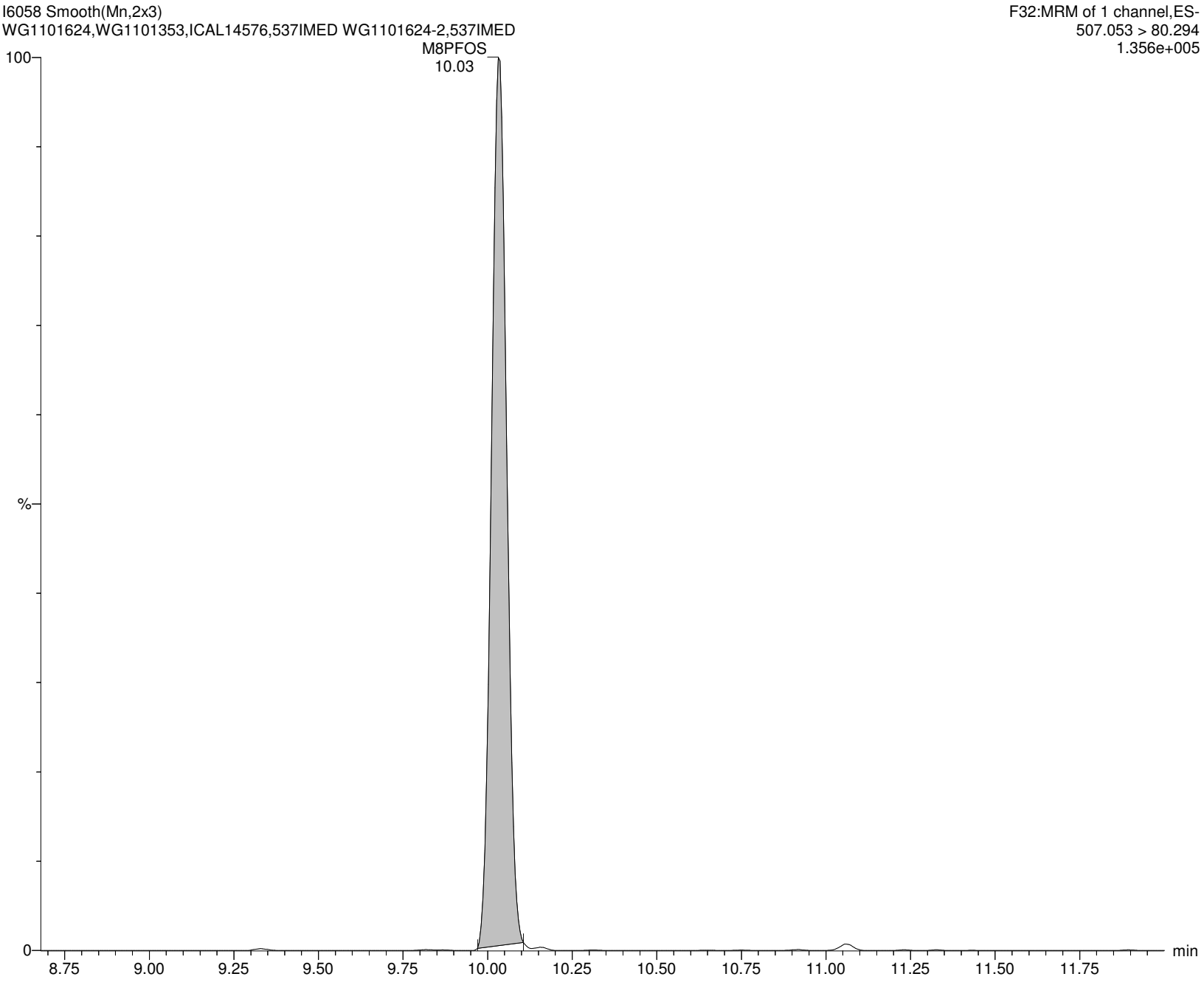

all concentration units in (ng/mL)

Alpha Analytical Inc.
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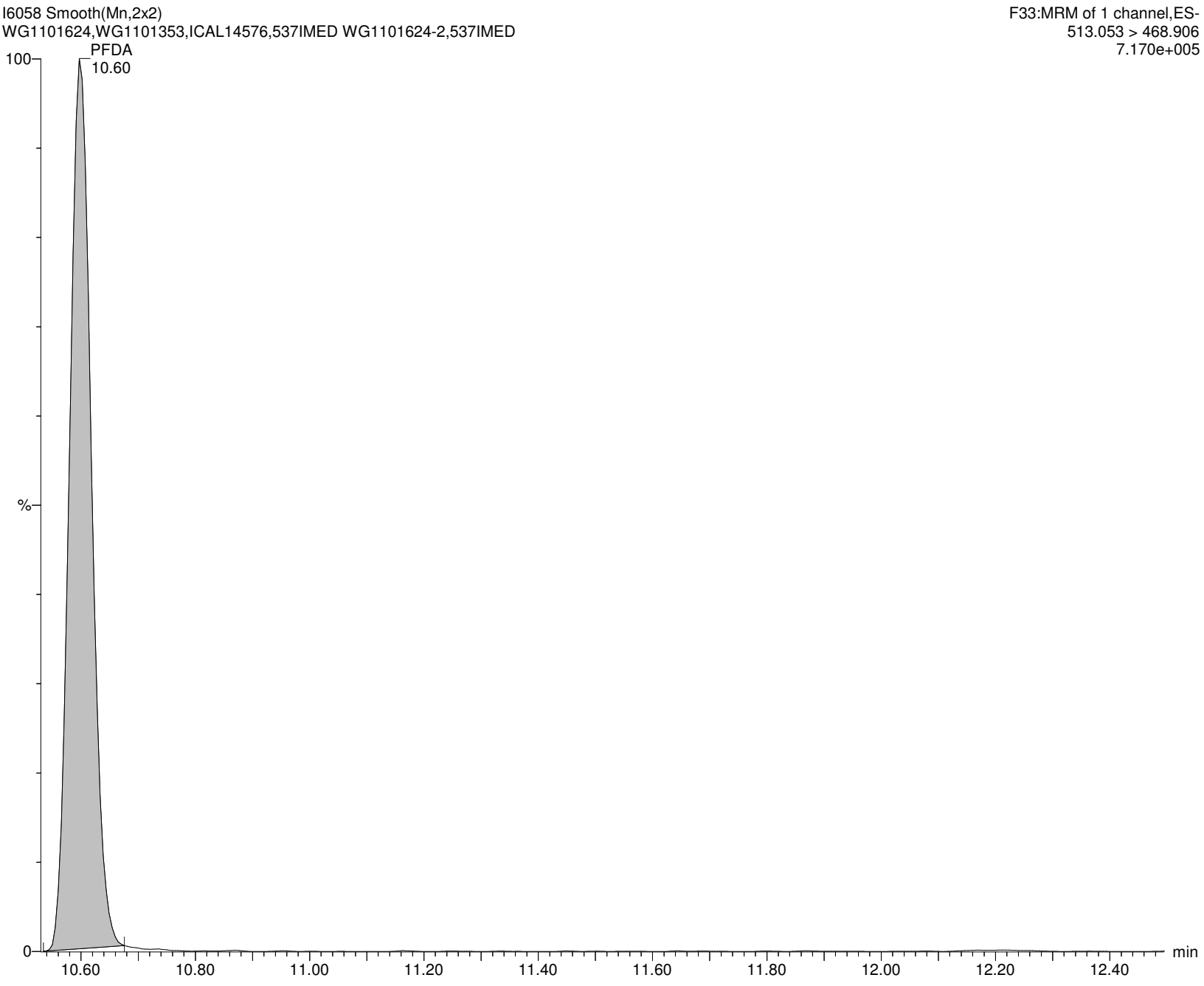

all concentration units in (ng/mL)

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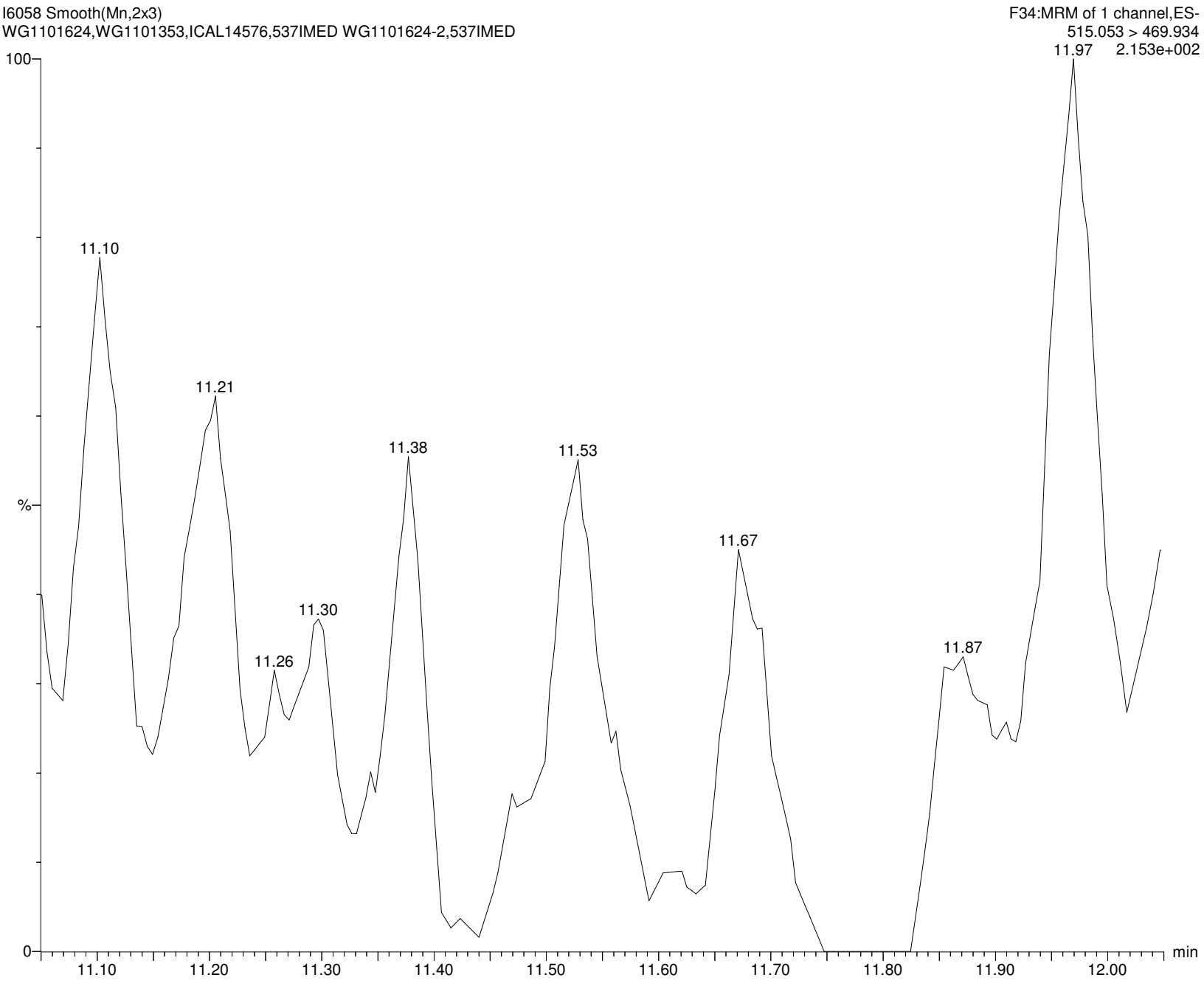

all concentration units in (ng/mL)

Alpha Analytical Inc.
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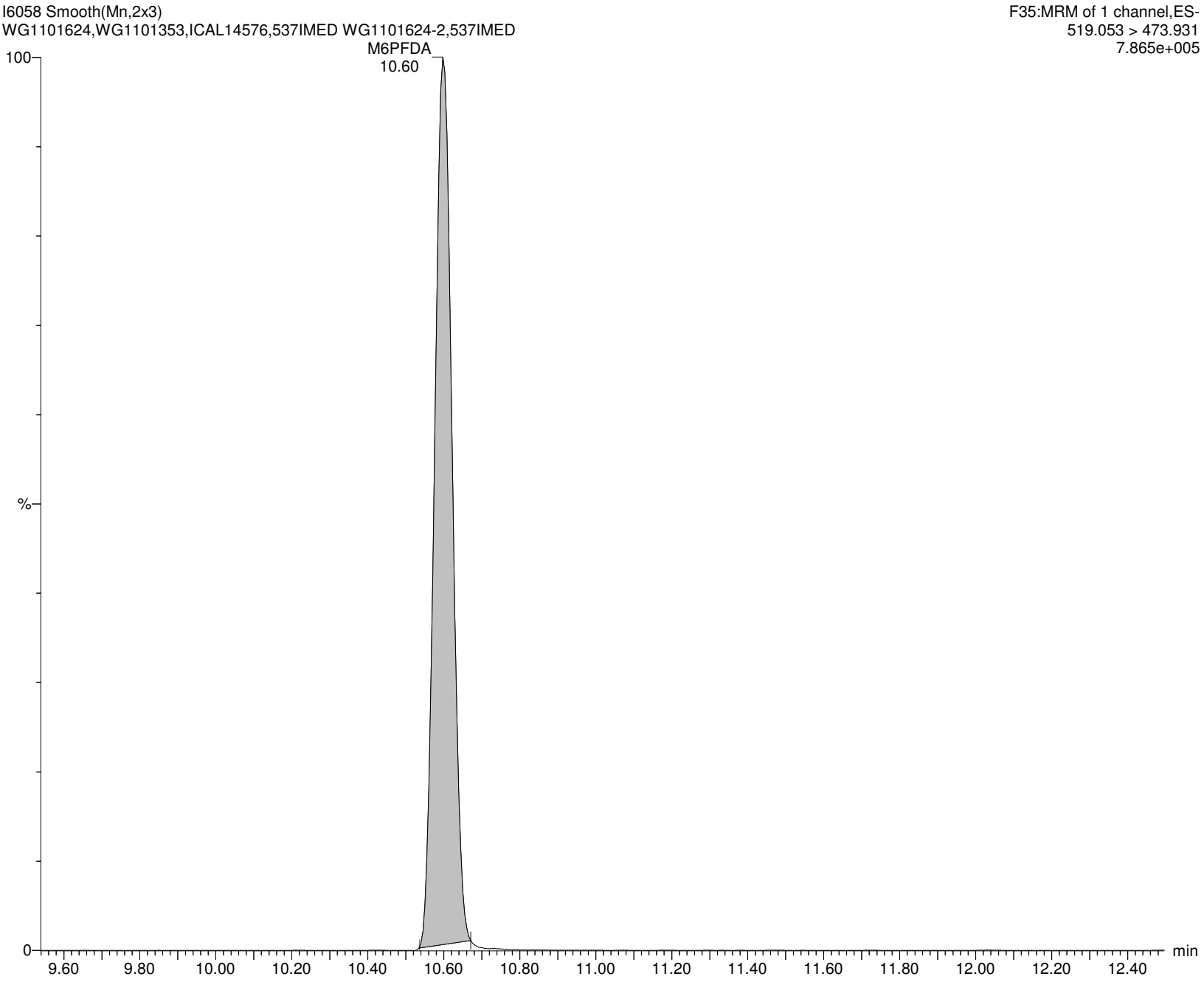

all concentration units in (ng/mL)

Alpha Analytical Inc.
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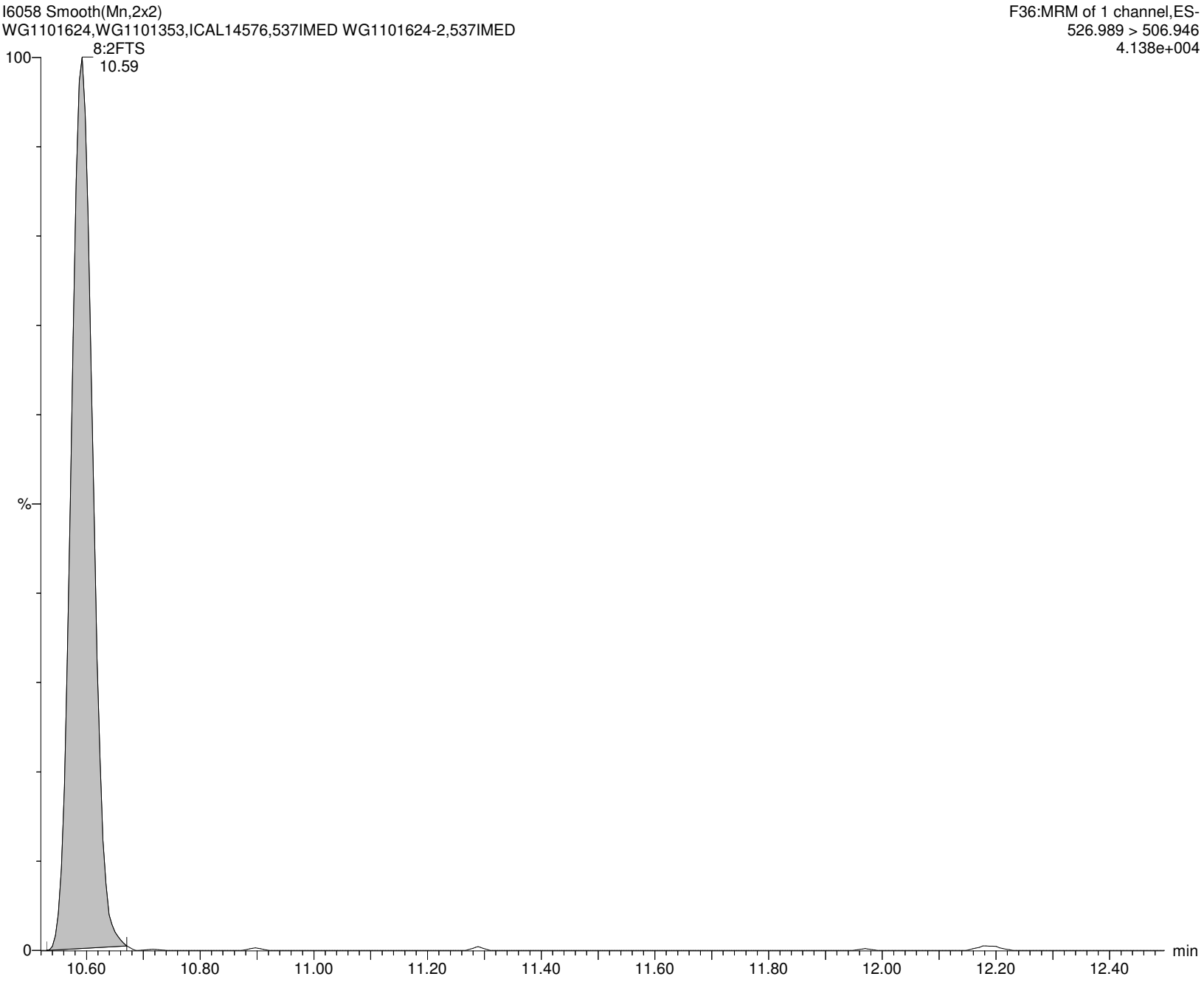
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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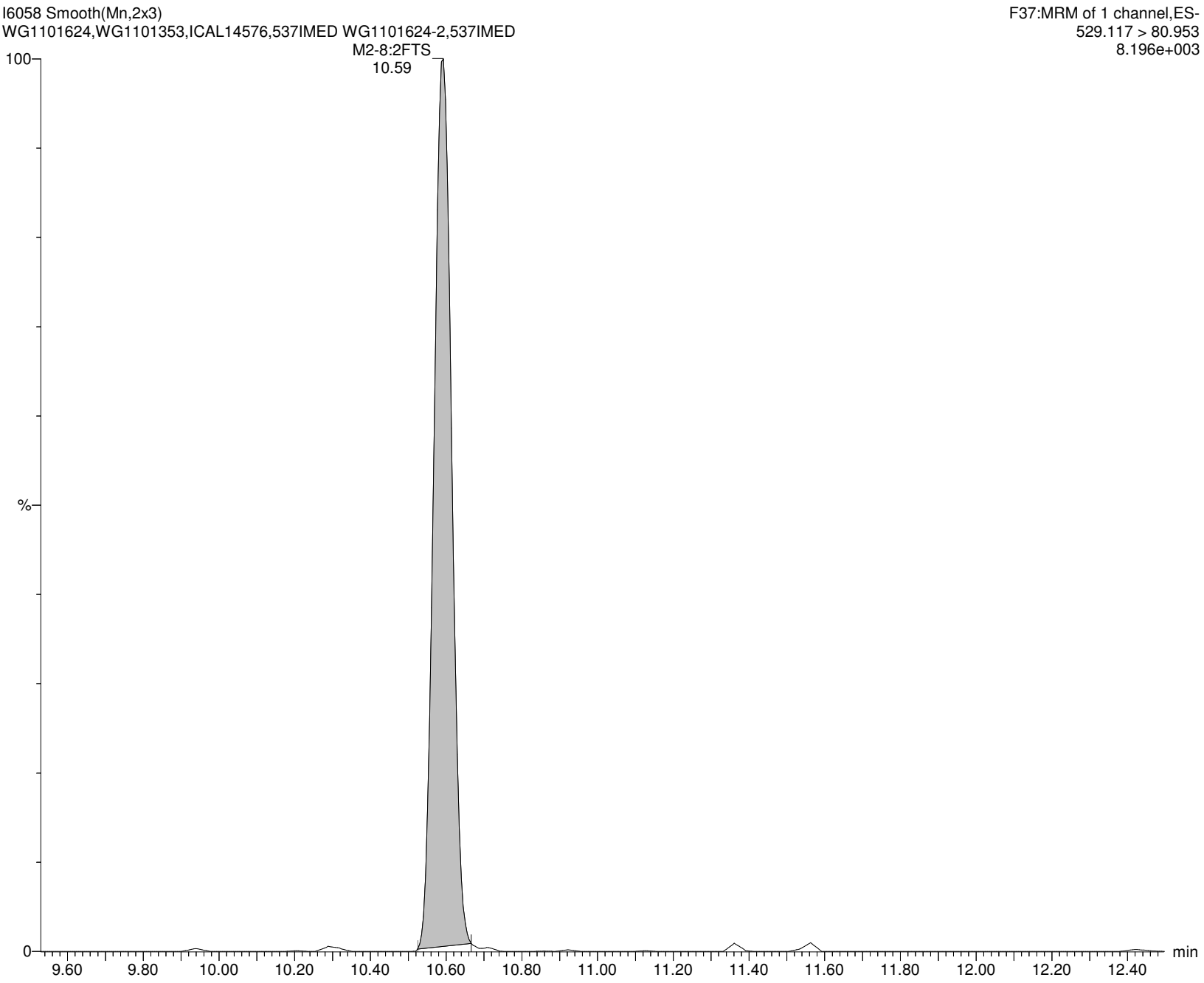
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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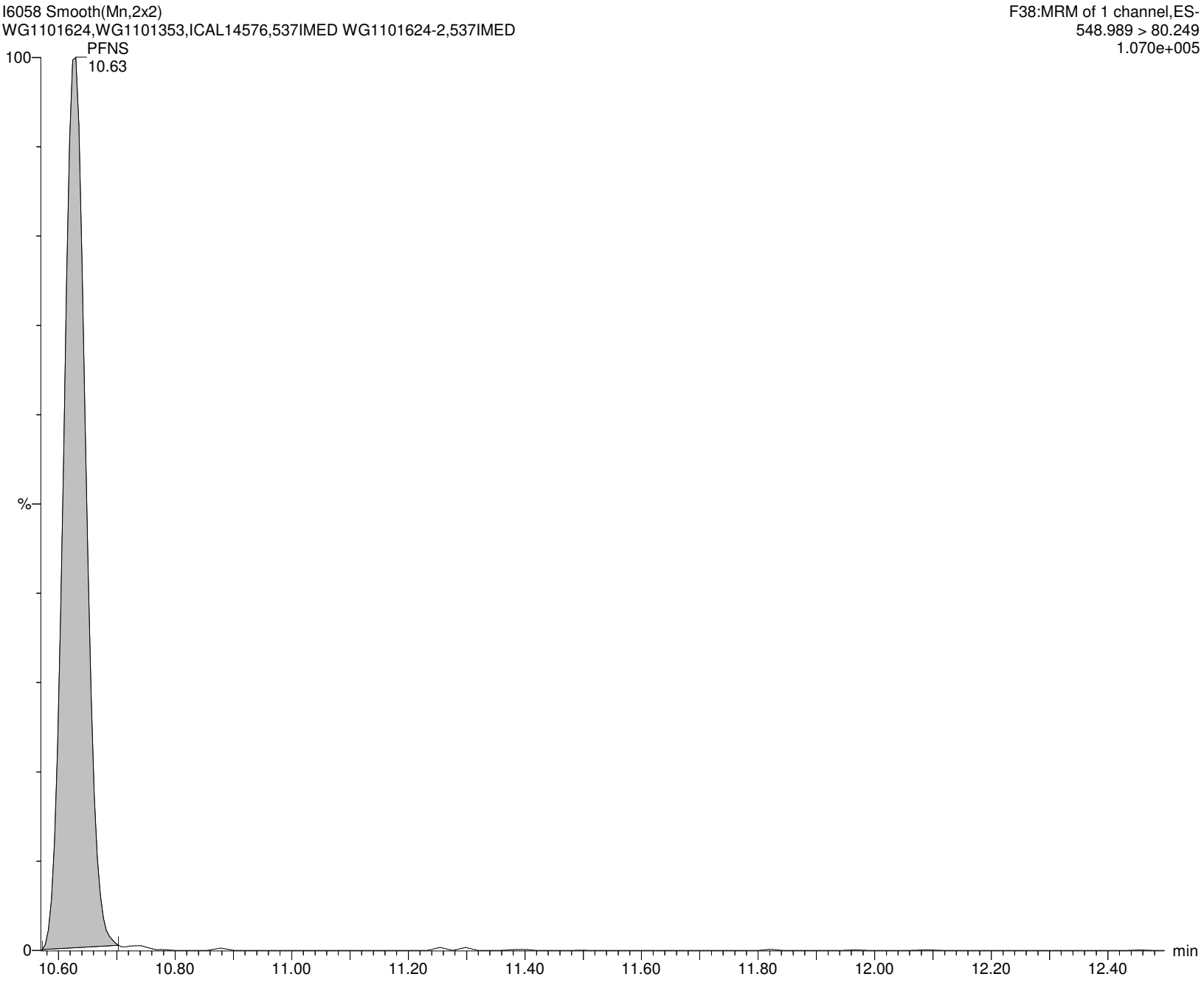

all concentration units in (ng/mL)

Alpha Analytical Inc.
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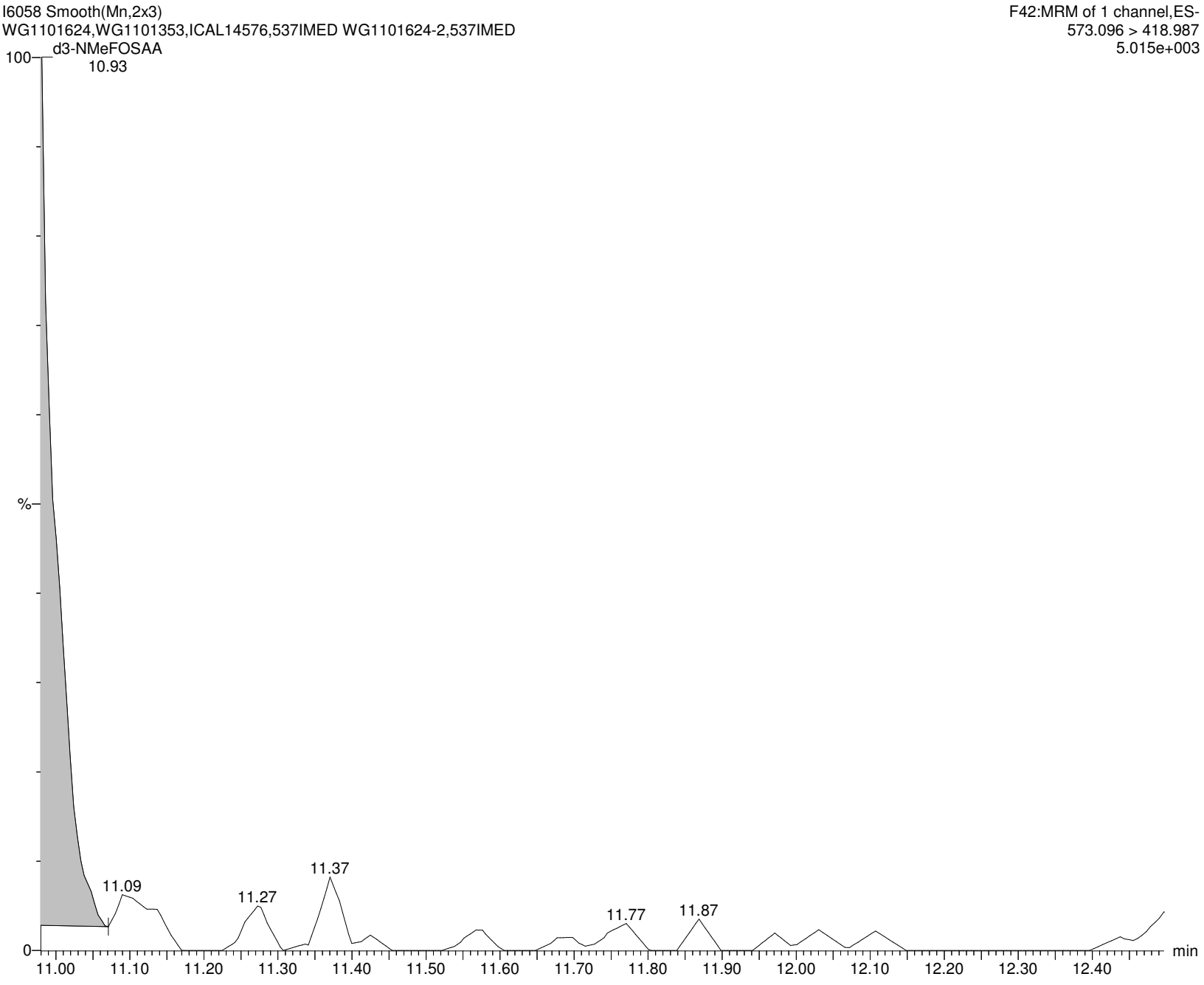

all concentration units in (ng/mL)

Alpha Analytical Inc.
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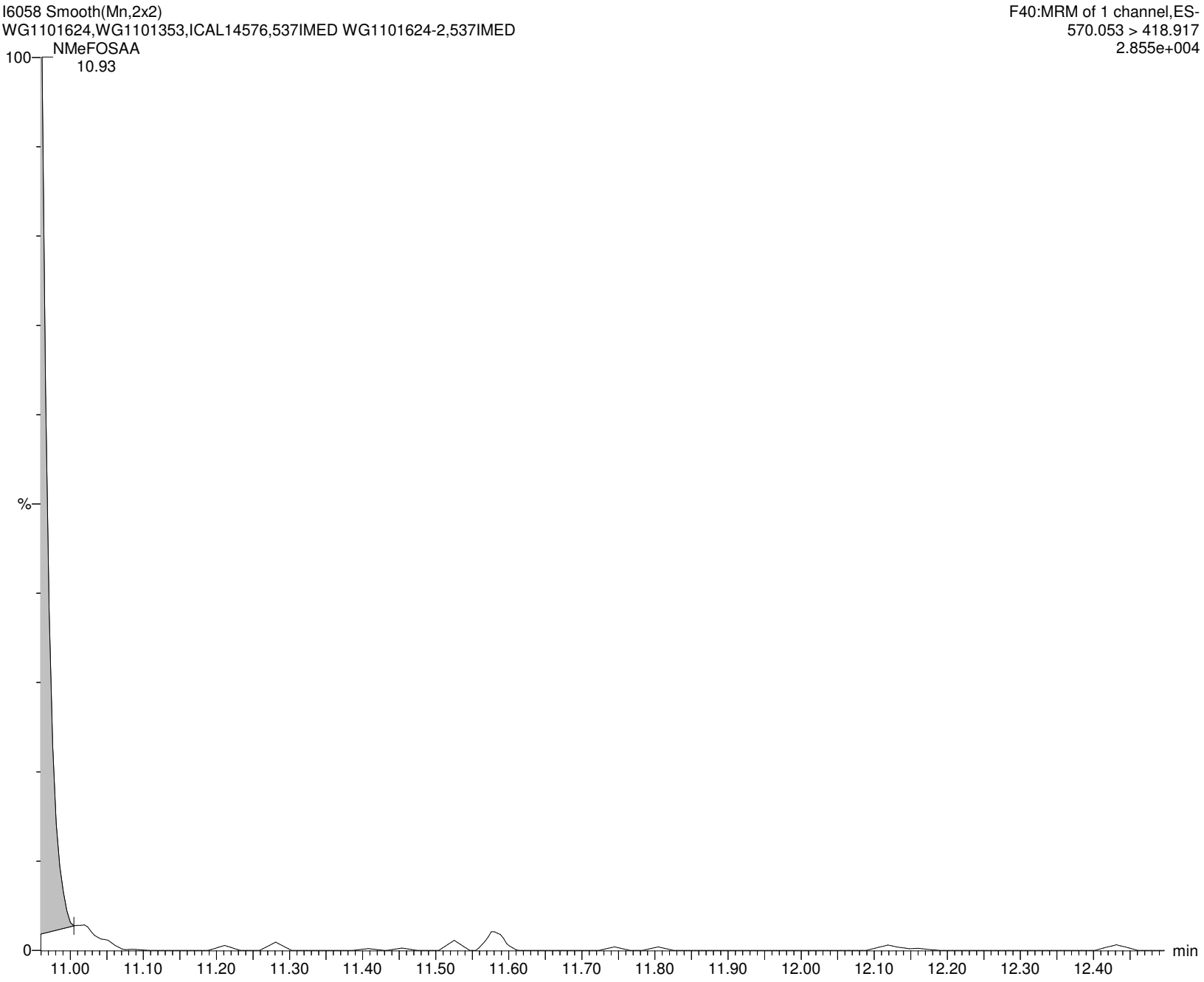

all concentration units in (ng/mL)

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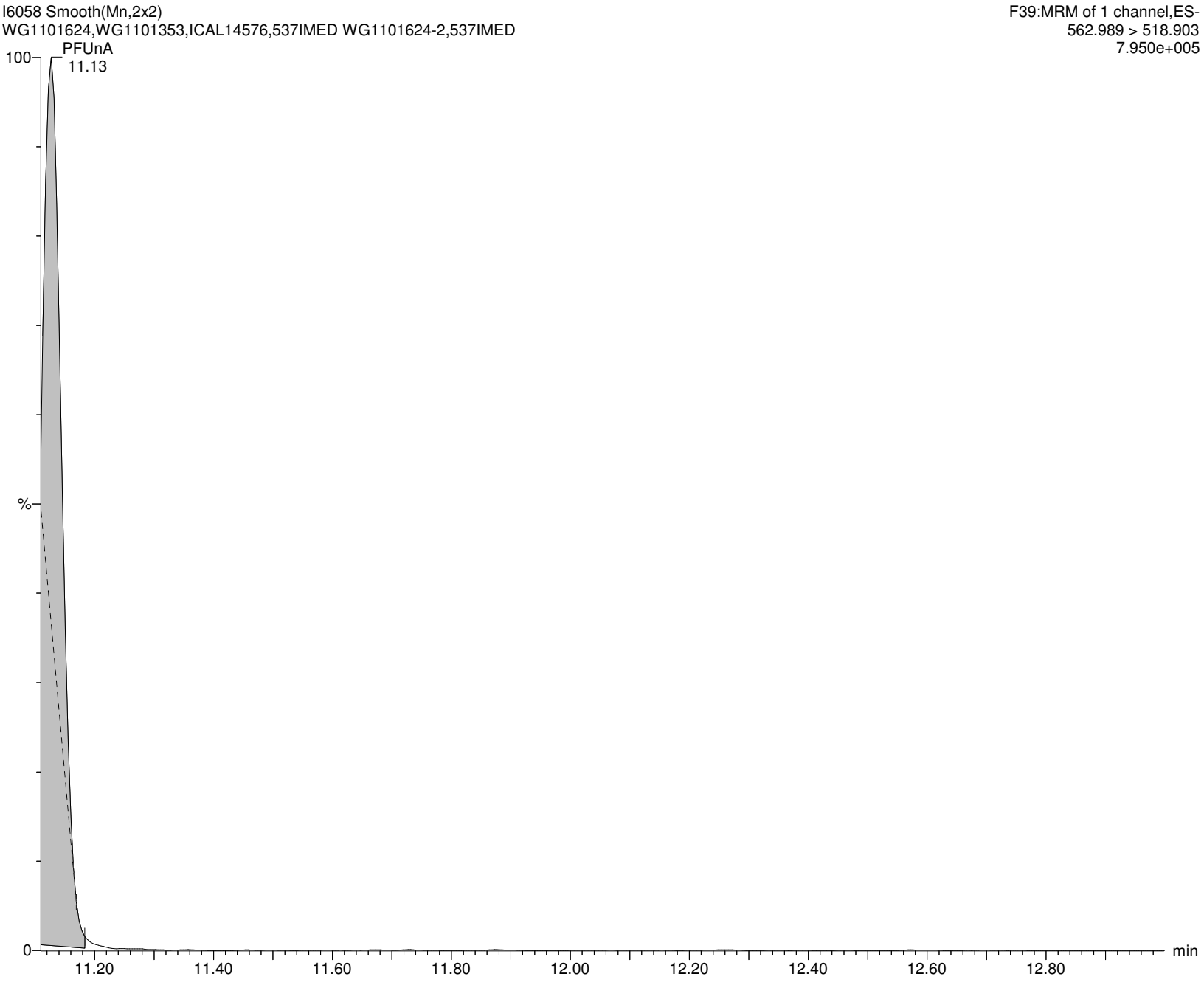

all concentration units in (ng/mL)

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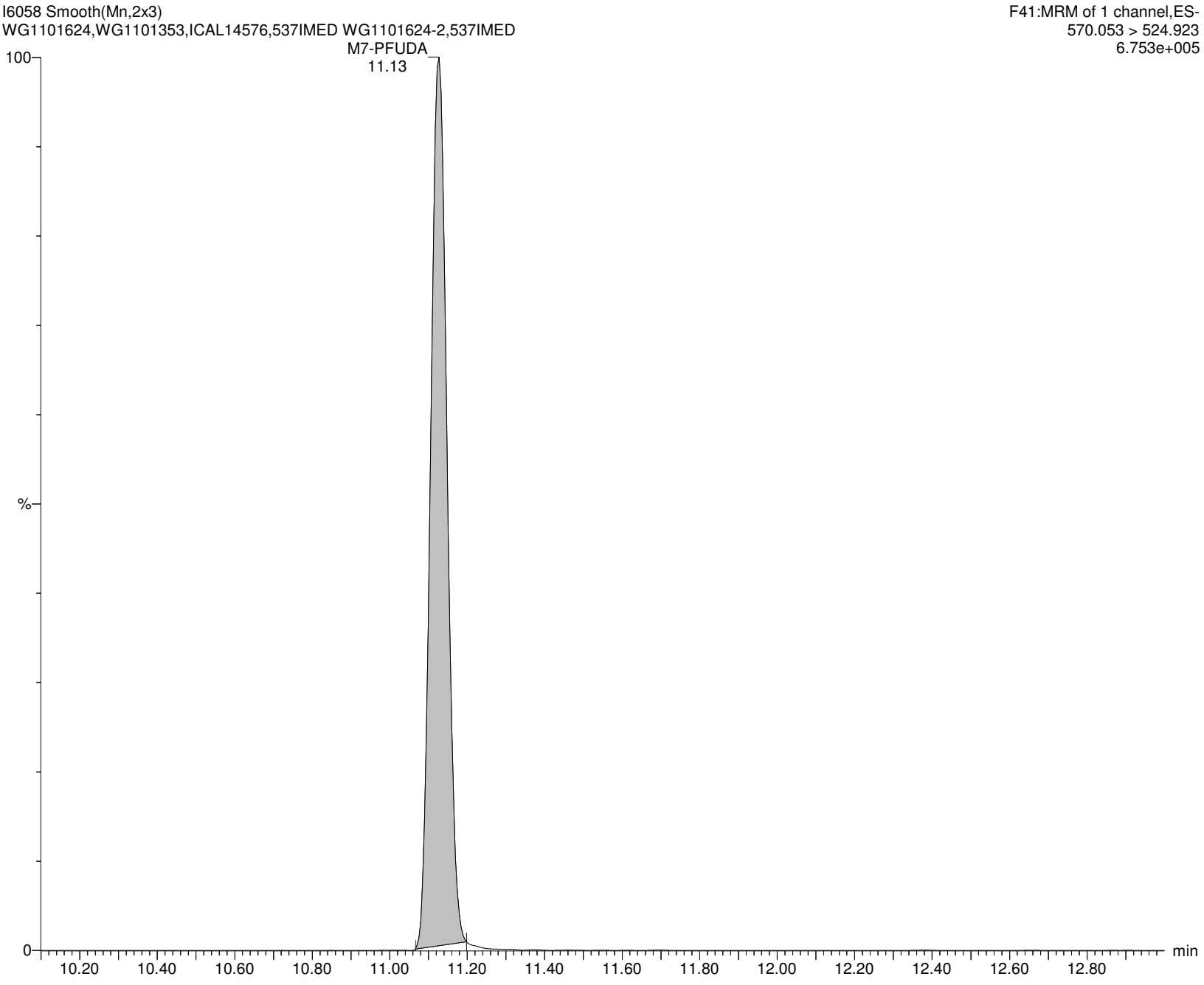
M7-PFUDA



all concentration units in (ng/mL)

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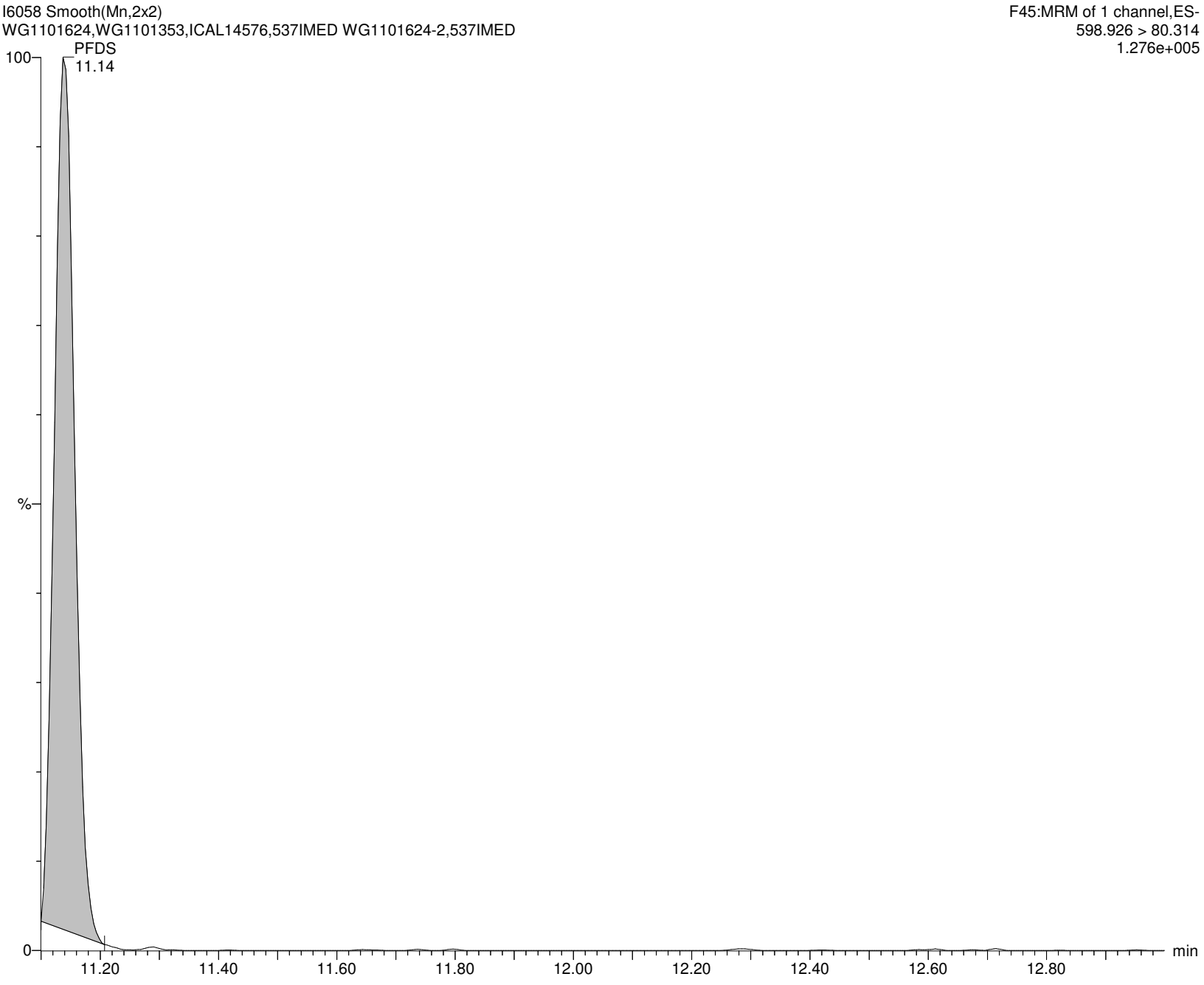

all concentration units in (ng/mL)

Alpha Analytical Inc.
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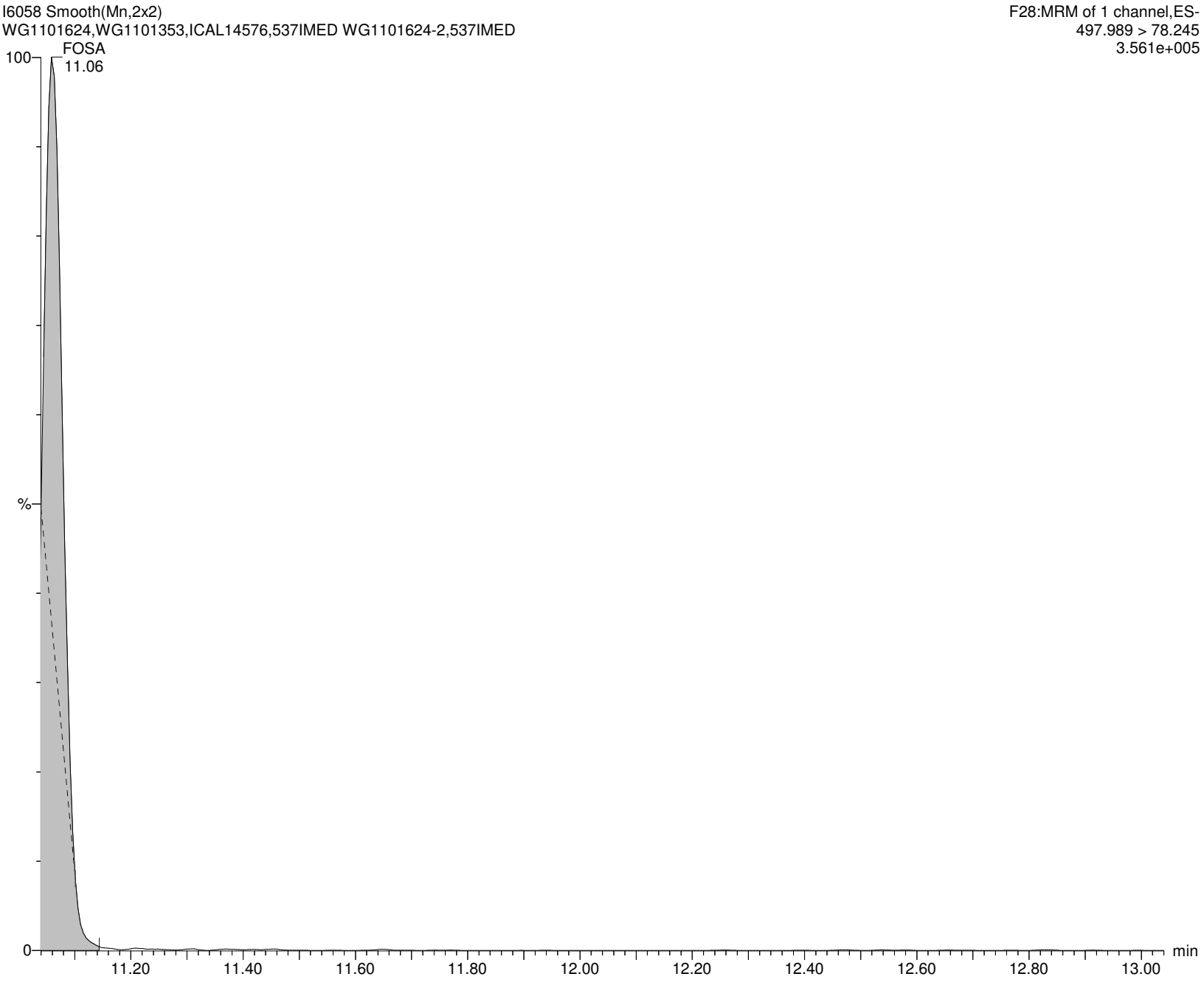
FOSA



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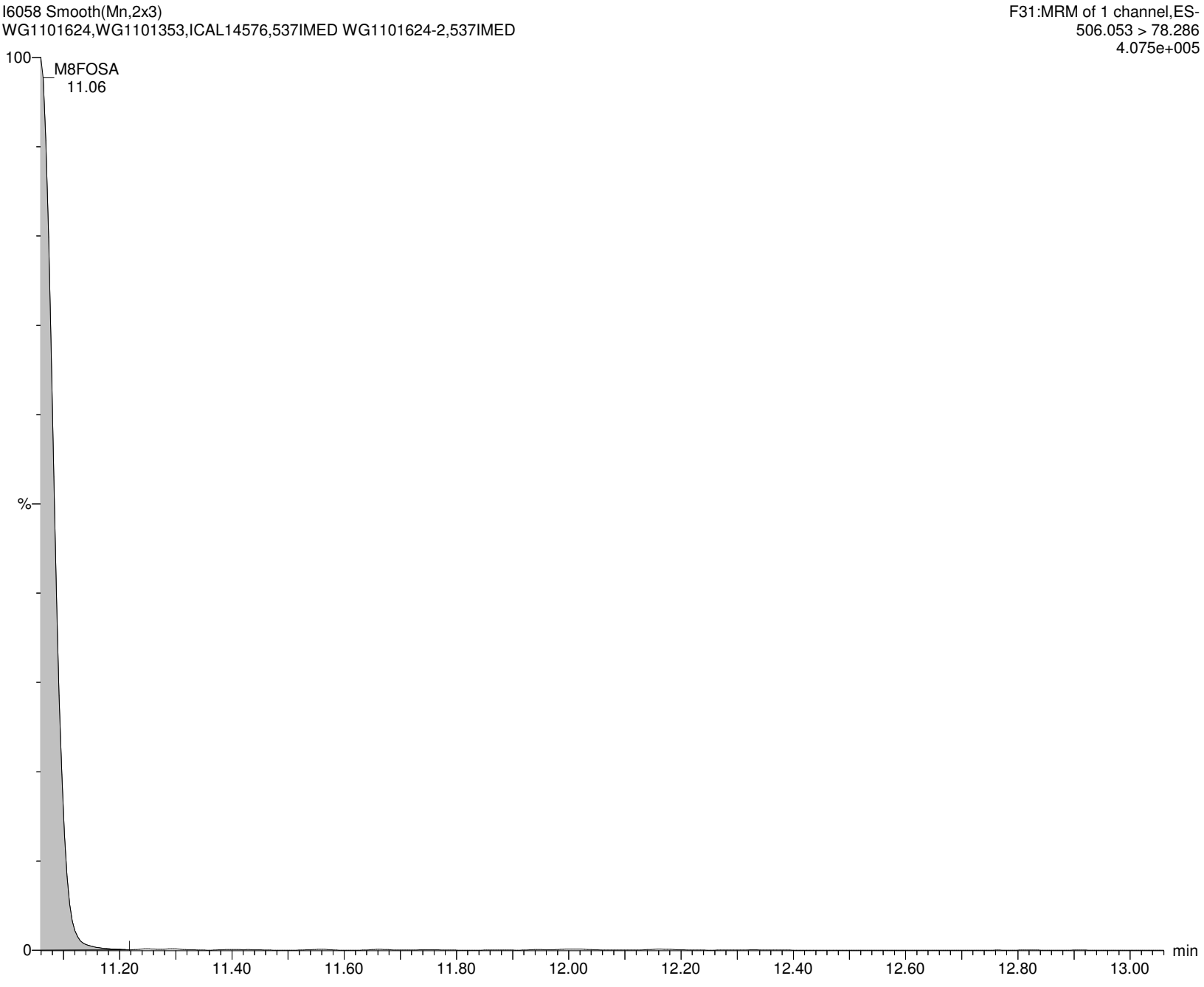
M8FOSA



all concentration units in (ng/mL)

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Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
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Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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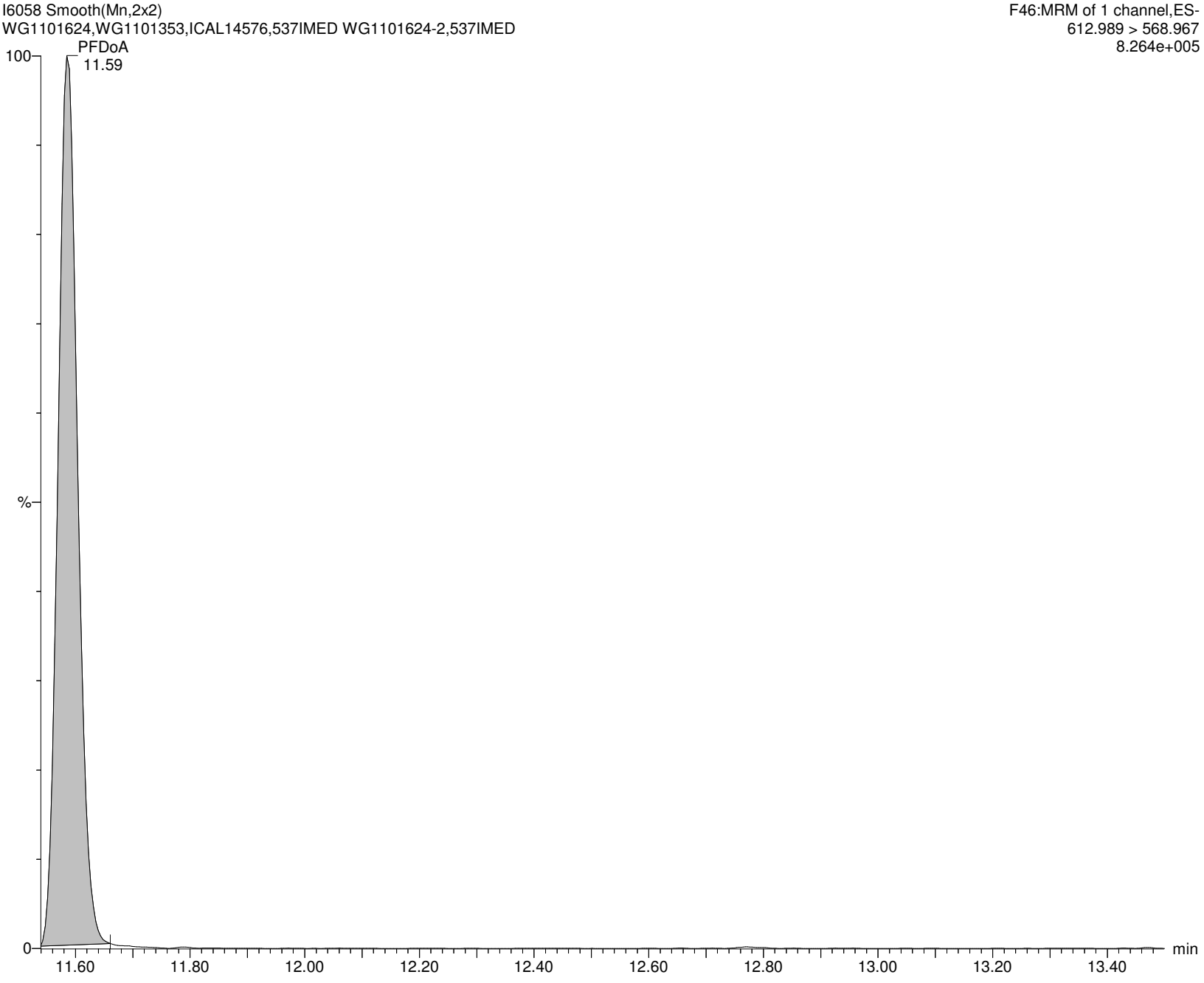

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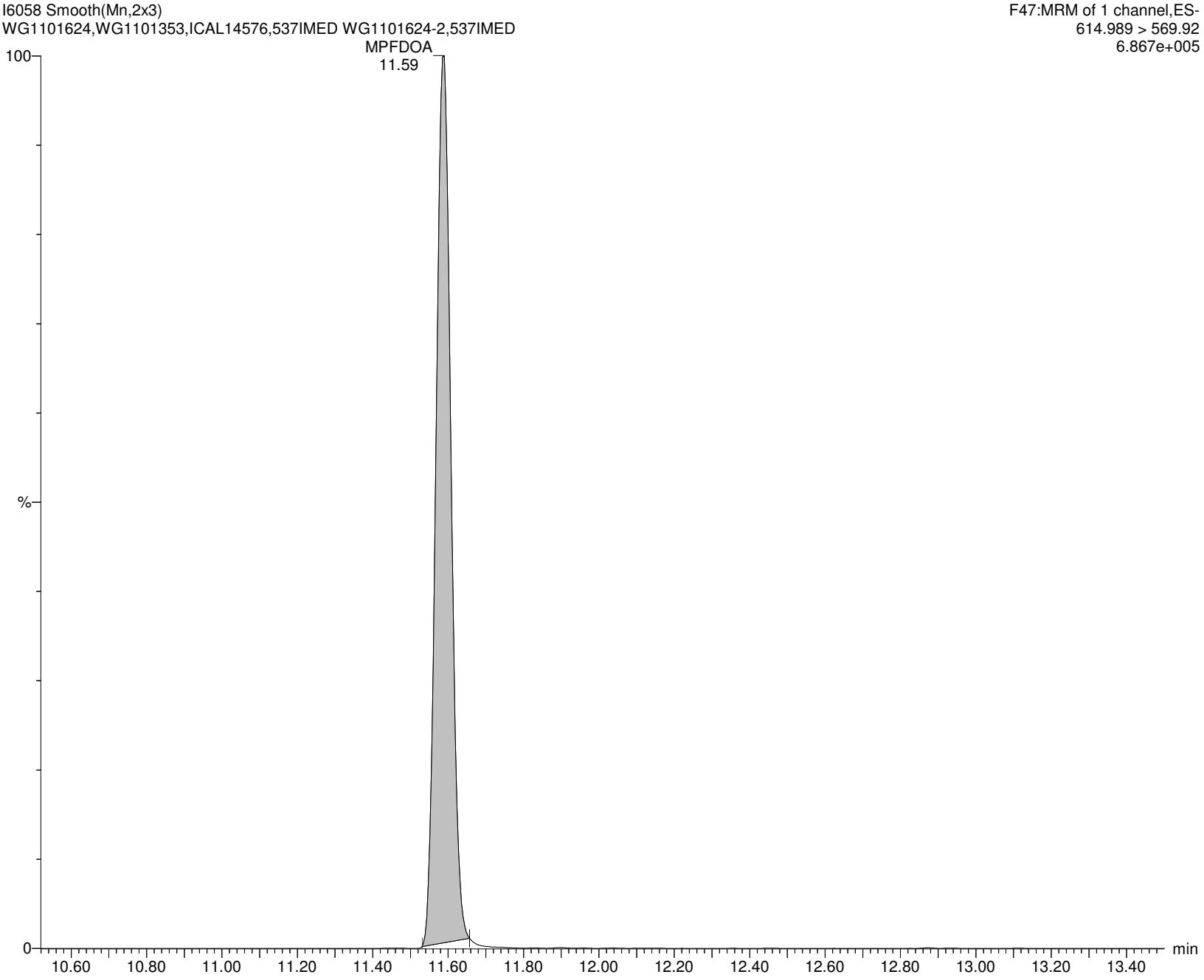

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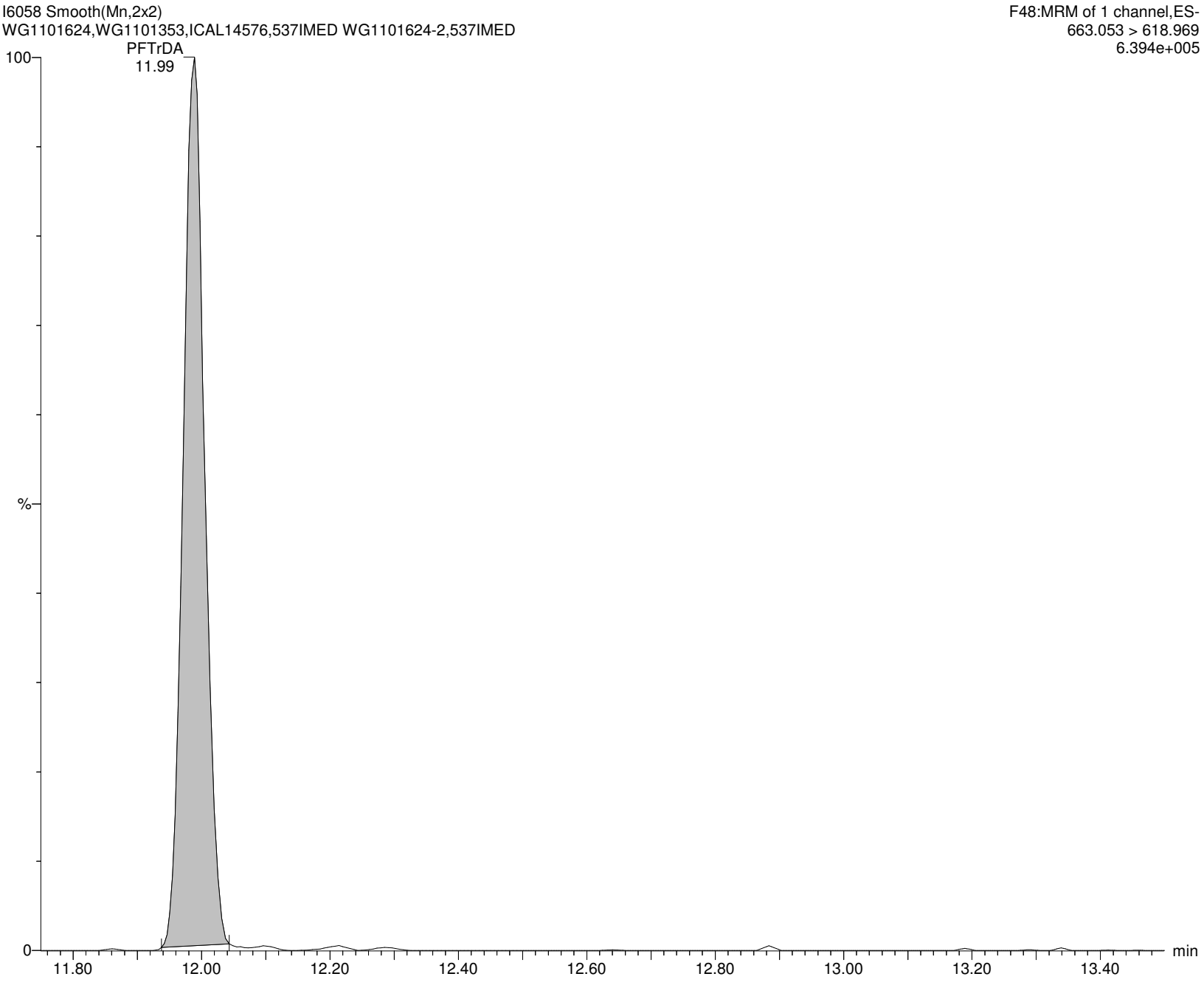

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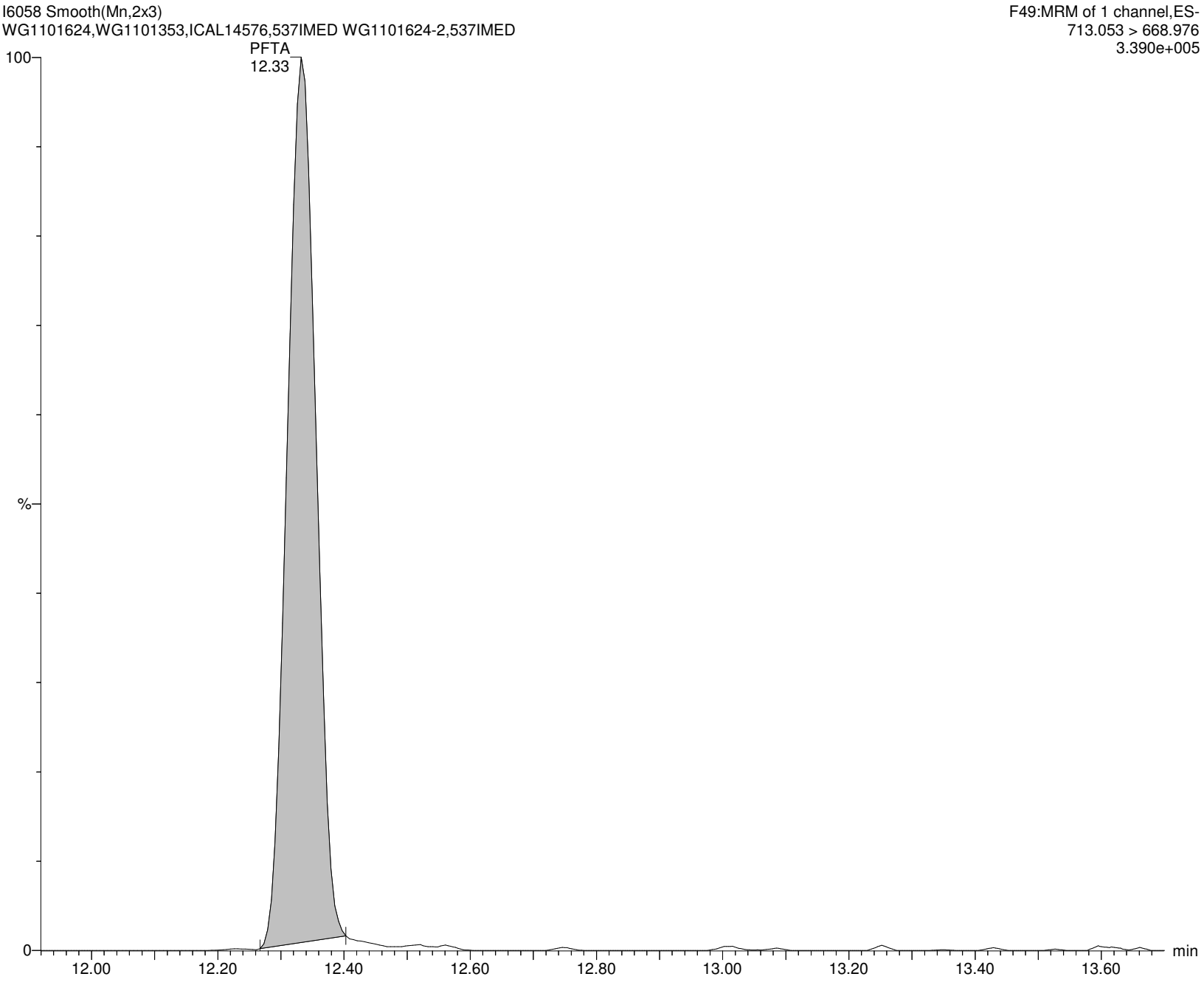

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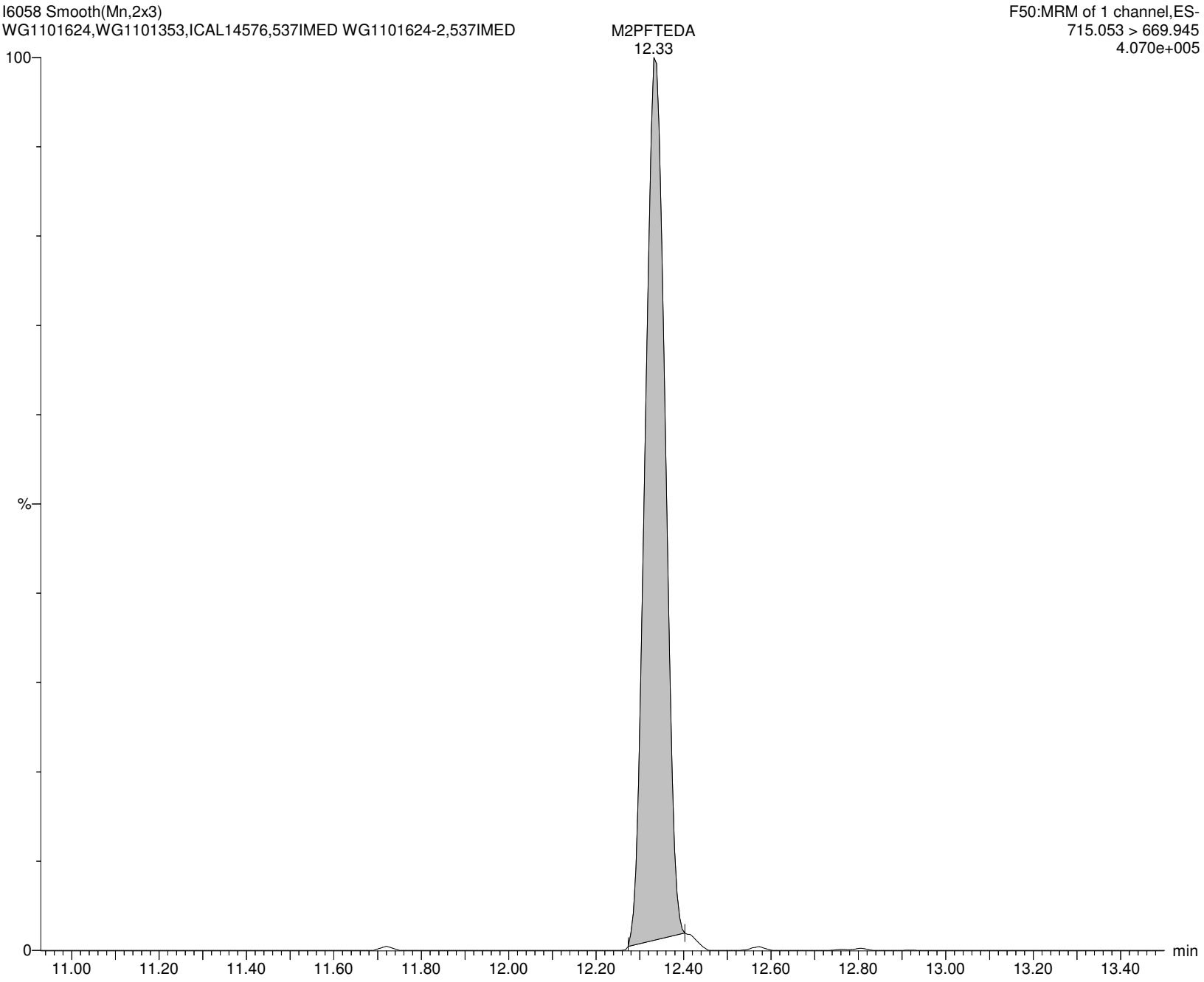

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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	34708		9.499		na	95.0
2	MPFBA	INT STD	2.23	216.926 > 172.137	49639		10.055		na	100.6
3	PFPeA	2706-90-3	5.13	262.926 > 219.002	36531		9.132		na	91.3
4	M5PFPEA	INT STD	5.13	TIC	50881		10.000		na	100.0
5	PFBS	375-73-5	5.81	298.989 > 80.295	7296		8.078		na	91.3
6	M3PFBS	INT STD	5.80	301.989 > 80.254	9183		9.645		na	96.4
7	PFHxA	307-24-4	7.04	312.989 > 269.028	45870		9.375		na	93.8
8	M5PFHxA	INT STD	7.04	317.989 > 273.045	54125		9.731		na	97.3
9	PFPeS	2706-91-4	7.36	348.926 > 80.251	6860		8.166		na	86.9
10	PFHpA	375-85-9	8.31	362.926 > 319.014	53179		9.268		na	92.7
11	M4PFHpA	INT STD	8.30	366.926 > 321.979	62416		9.880		na	98.8
12	br-PFHxS	355-46-4	8.23	398.926 > 80.295	1339		1.596		na	84.0
13	L-PFHxS	355-46-4	8.46	398.926 > 80.295	6244		7.612		na	94.0
14	PFHxS	355-46-4		398.926 > 80.295	7584		9.208		na	
15	M3PFHxS	INT STD	8.47	401.926 > 80.317	8691		9.923		na	99.2
16	br-PFOA	335-67-1	8.85	412.989 > 368.9	21		0.004		na	0.0
17	L-PFOA	335-67-1	9.24	412.989 > 368.9	53152		9.495		na	95.0
18	M2PFOA	INT STD	9.24	415.032 > 369.968	57787		9.338		na	93.4
19	PFOA	335-67-1		412.989 > 368.9	53173		9.499		na	
20	M8PFOA	INT STD	9.24	420.989 > 375.979	54004		9.622		na	96.2
21	PFNA	375-95-1	9.98	462.989 > 418.931	39007		9.728		na	97.3
22	M9PFNA	INT STD	9.98	472.053 > 426.947	48112		9.122		na	91.2
23	br-PFOS	1763-23-1	9.78	498.989 > 80.294	1625		1.684		na	84.2
24	L-PFOS	1763-23-1	10.03	498.989 > 80.294	4813		7.057		na	89.3
25	PFOS	1763-23-1		498.989 > 80.294	6438		8.741		na	
26	M4PFOS	INT STD	10.03	503.032 > 80.306	5801		9.567		na	95.7
27	M8PFOS	INT STD	10.03	507.053 > 80.294	6966		9.834		na	98.3
28	PFDA	335-76-2	10.60	513.053 > 468.906	31721		9.022		na	90.2
29	M2PFDA	INT STD	10.60	515.053 > 469.934	35500		8.468		na	84.7
30	M6PFDA	INT STD	10.60	519.053 > 473.931	41357		9.648		na	96.5
31	8:2FTS	39108-34-4	10.59	526.989 > 506.946	1814		12.122		na	126.3
32	M2-8:2FTS	INT STD	10.59	529.117 > 80.953	440		6.142		na	61.4
33	PFNS	68259-12-1	10.63	548.989 > 80.249	4694		9.703		na	101.1
34	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	5014		9.149		na	91.5
35	NMeFOSAA	2355-31-9	10.93	570.053 > 418.917	4838		9.185		na	91.9
36	PFUnA	2058-94-8	11.13	562.989 > 518.903	32007		9.488		na	94.9
37	M7-PFUDA	INT STD	11.13	570.053 > 524.923	32776		9.345		na	93.4
38	PFDS	335-77-3	11.14	598.926 > 80.314	4926		9.080		na	94.1
39	FOSA	754-91-6	11.06	497.989 > 78.245	15536		9.252		na	92.5

all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	M8FOSA	INT STD	11.06	506.053 > 78.286	20564		10.872		na	108.7
41	PFDoA	307-55-1	11.59	612.989 > 568.967	32551		10.661		na	106.6
42	MPFDOA	INT STD	11.59	614.989 > 569.92	31187		8.593		na	85.9
43	PFTrDA	72629-94-8	11.99	663.053 > 618.969	24569		8.521		na	85.2
44	PFTA	376-06-7	12.33	713.053 > 668.976	17647		9.774		na	97.7
45	M2PFTEDA	INT STD	12.33	715.053 > 669.945	21167		7.419		na	74.2

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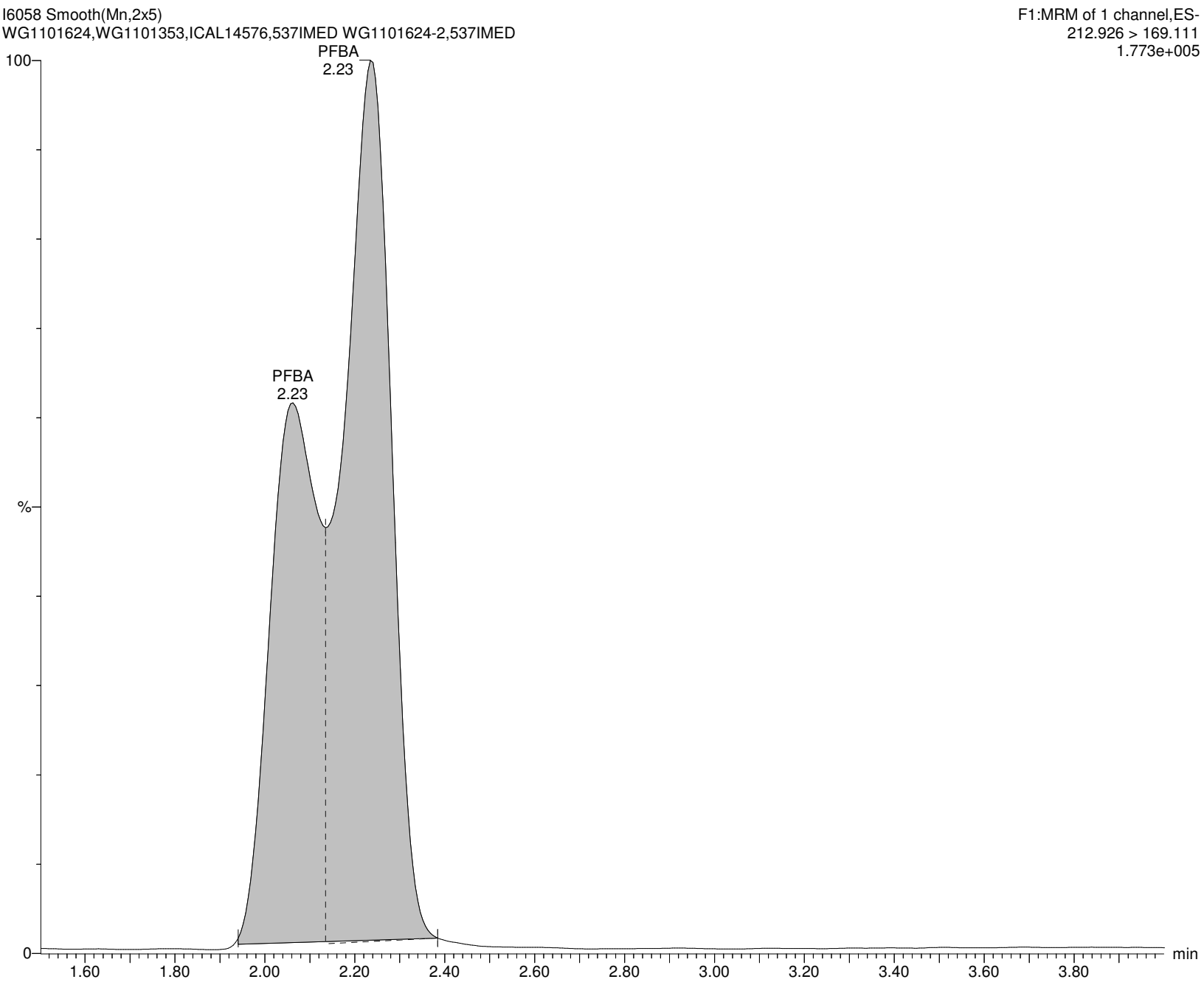

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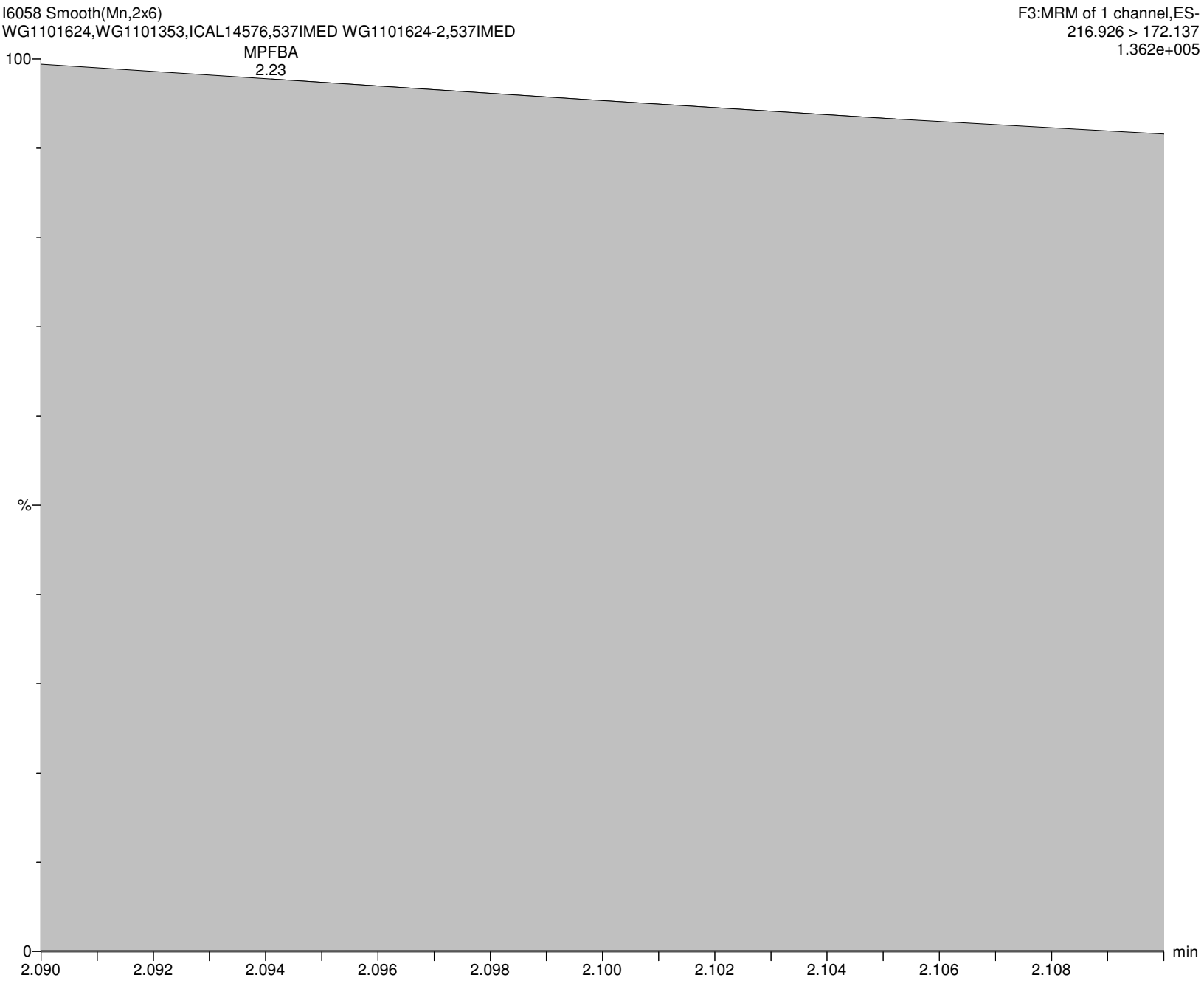

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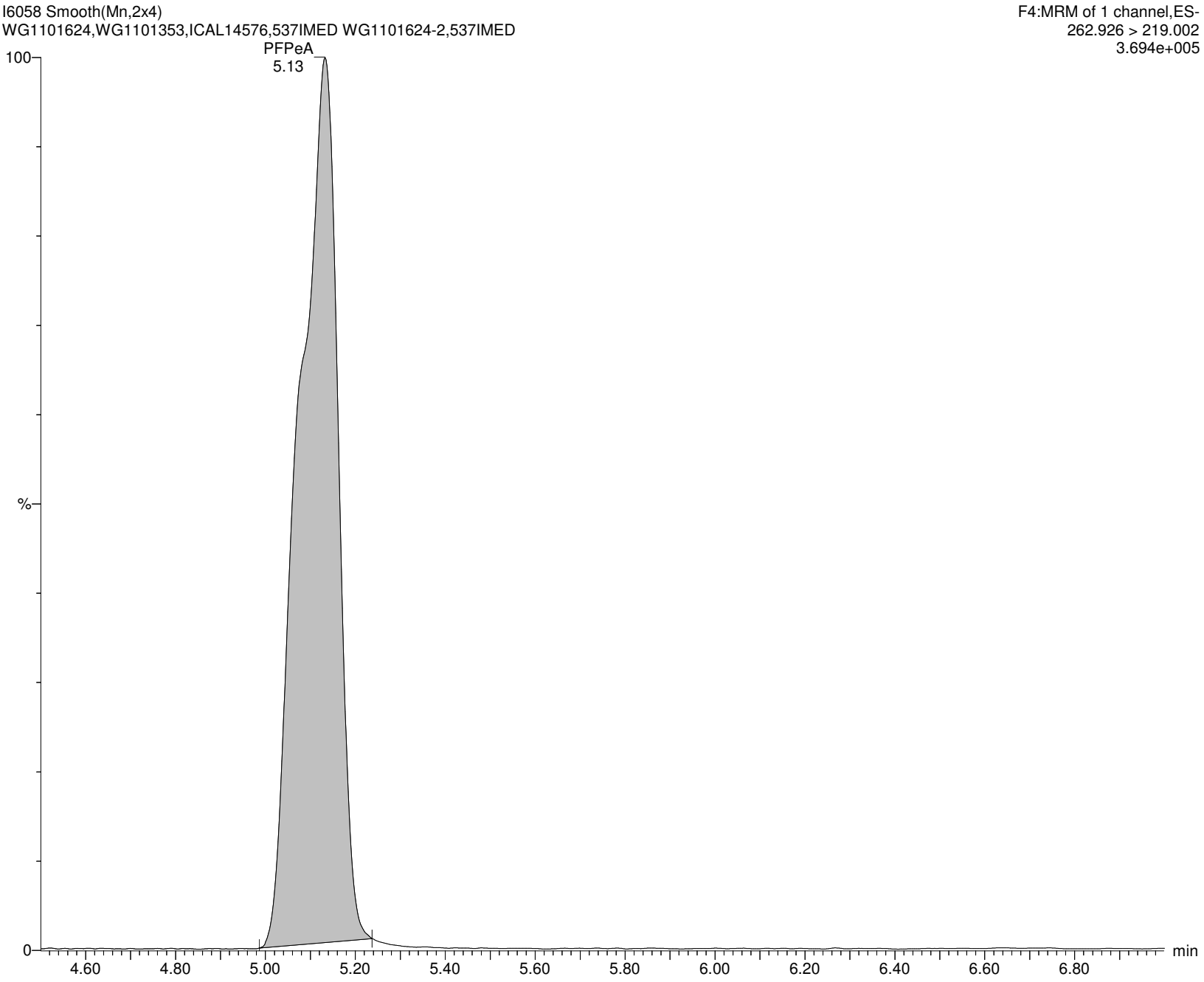

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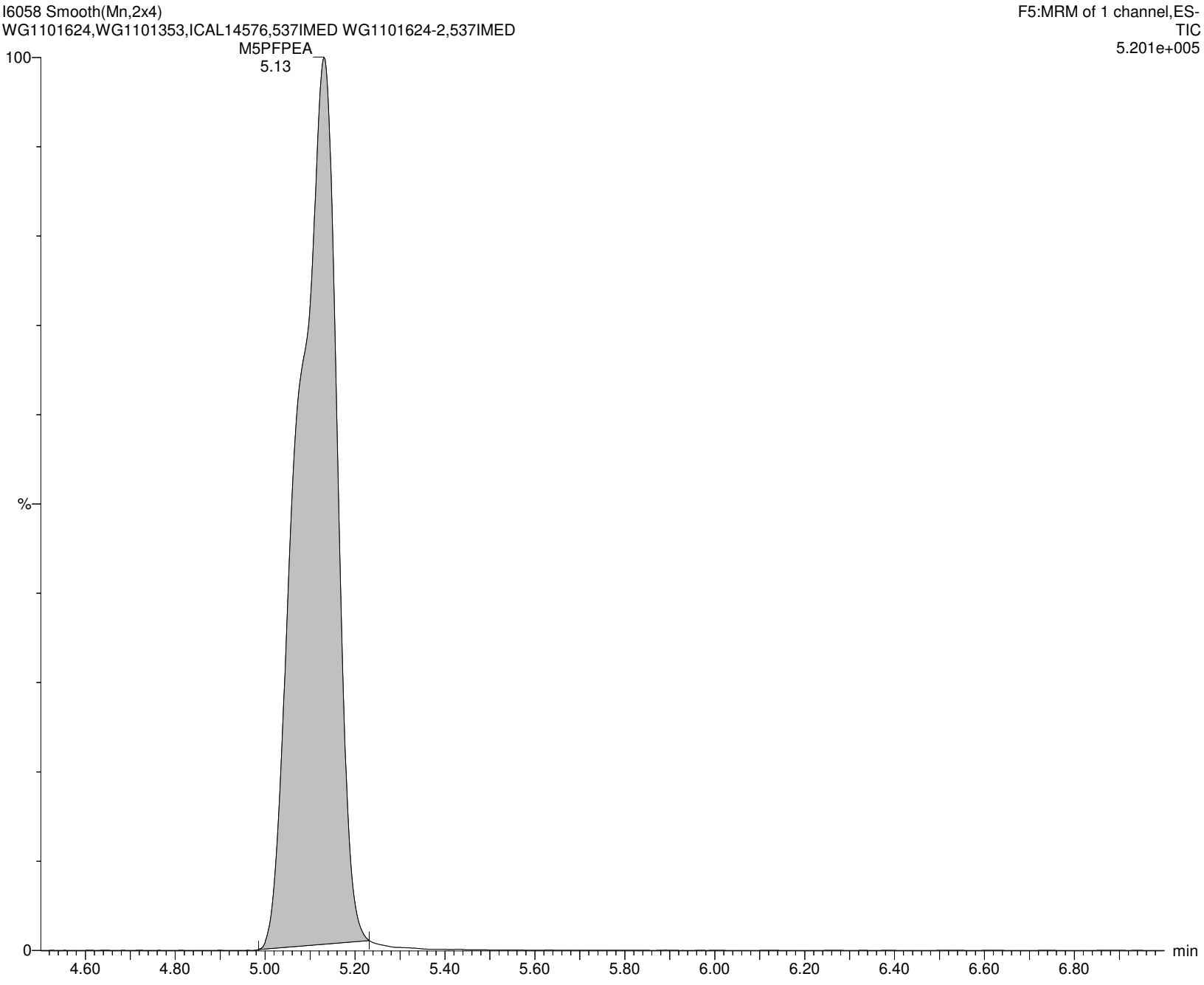

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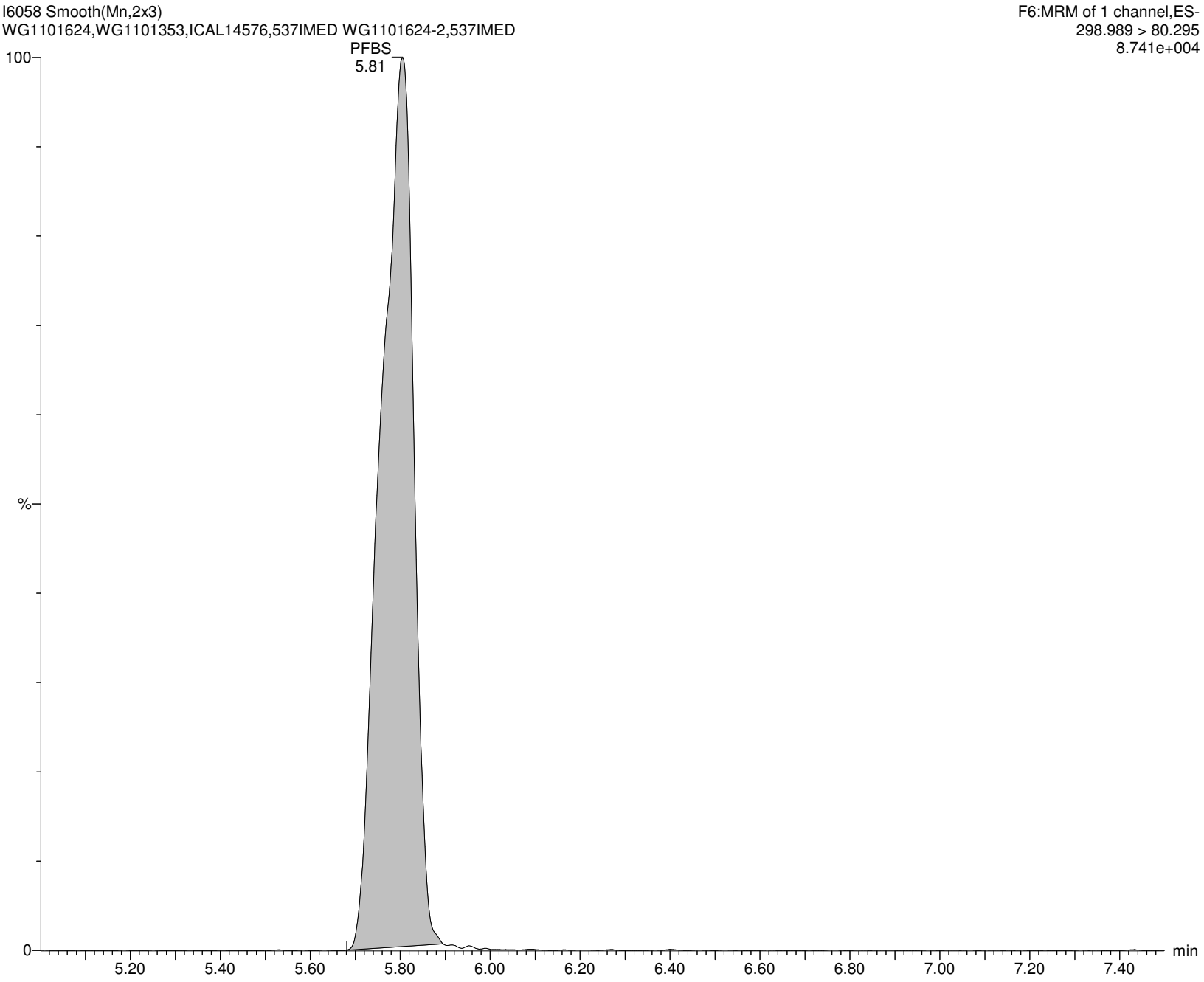

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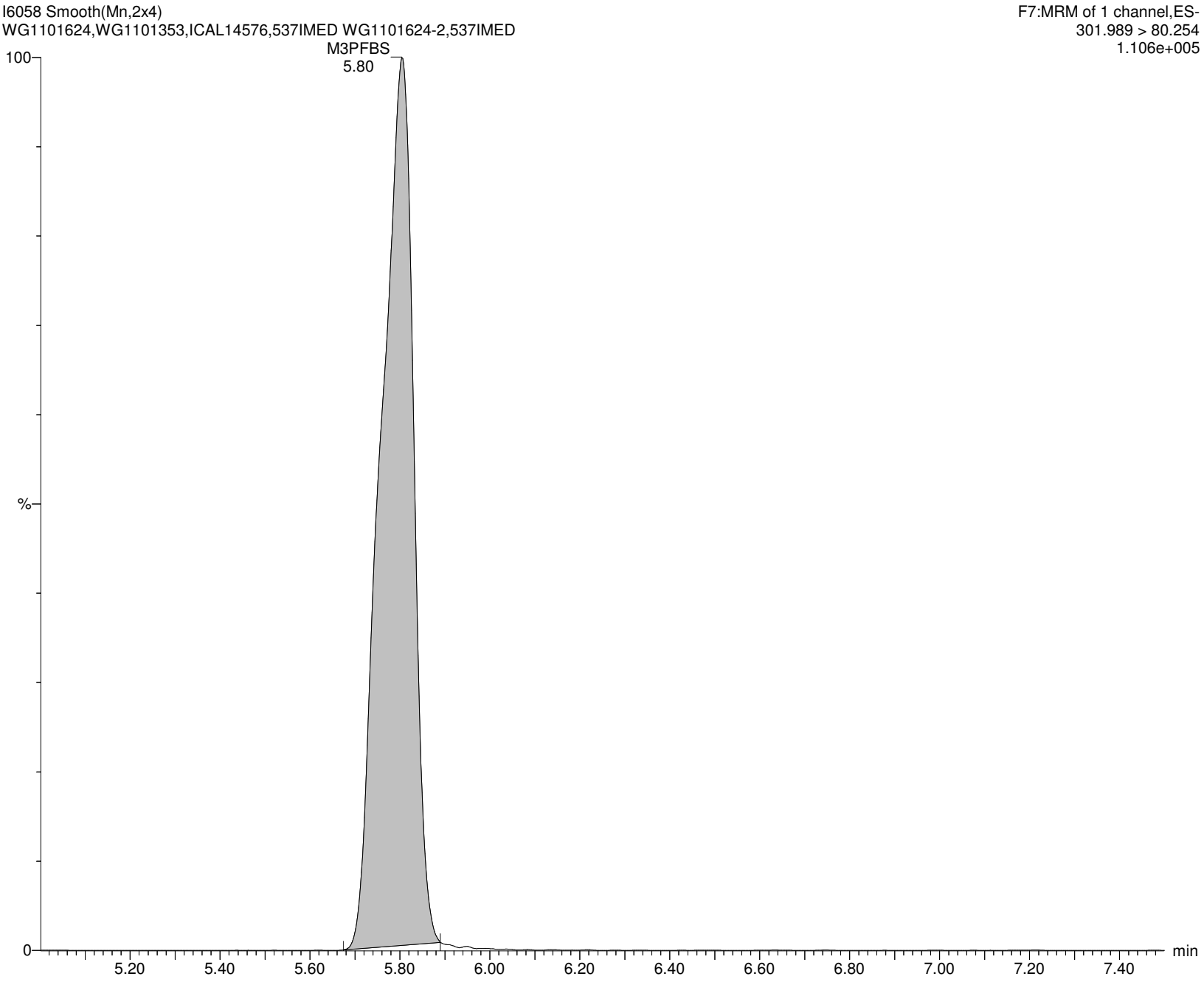

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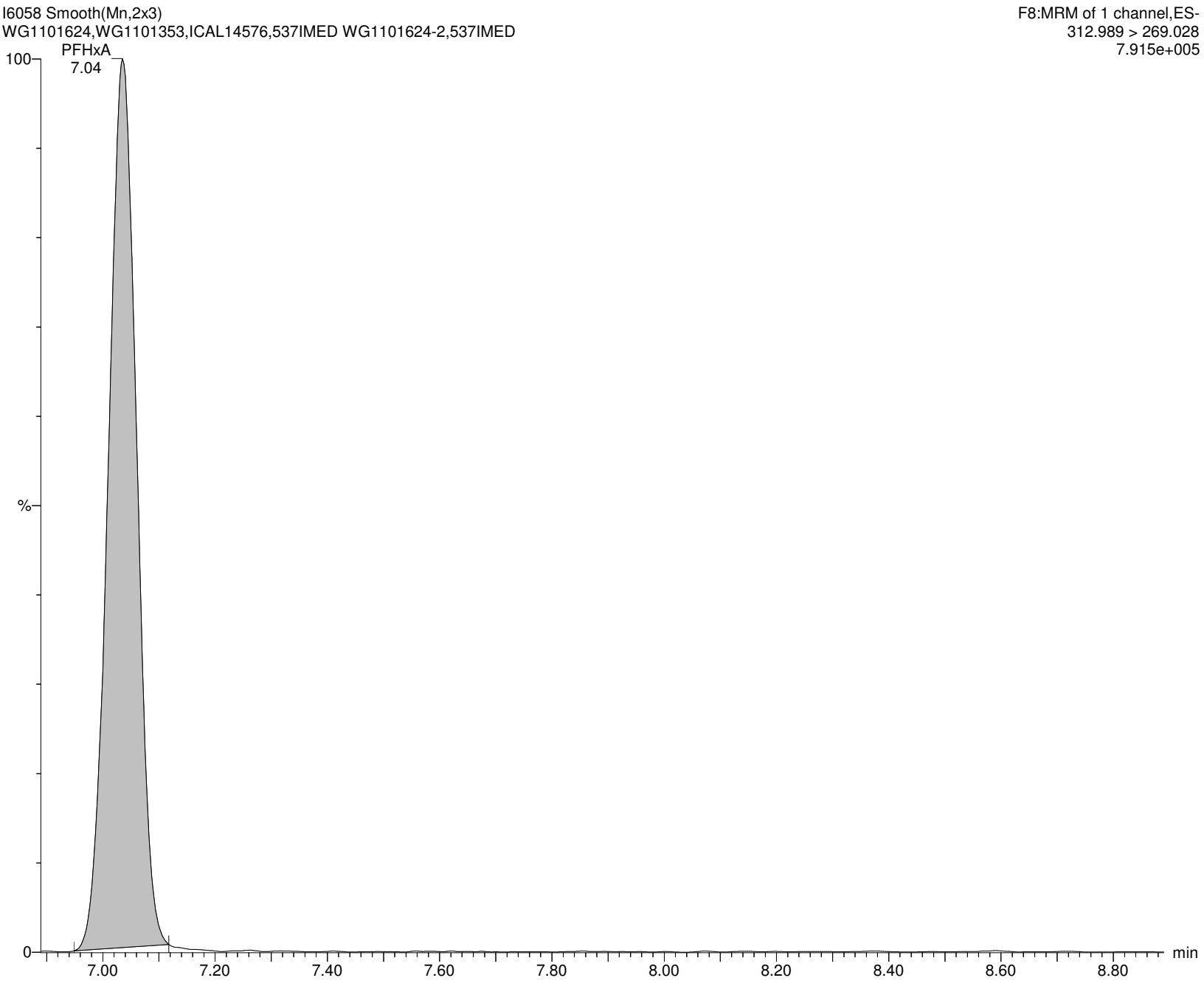

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
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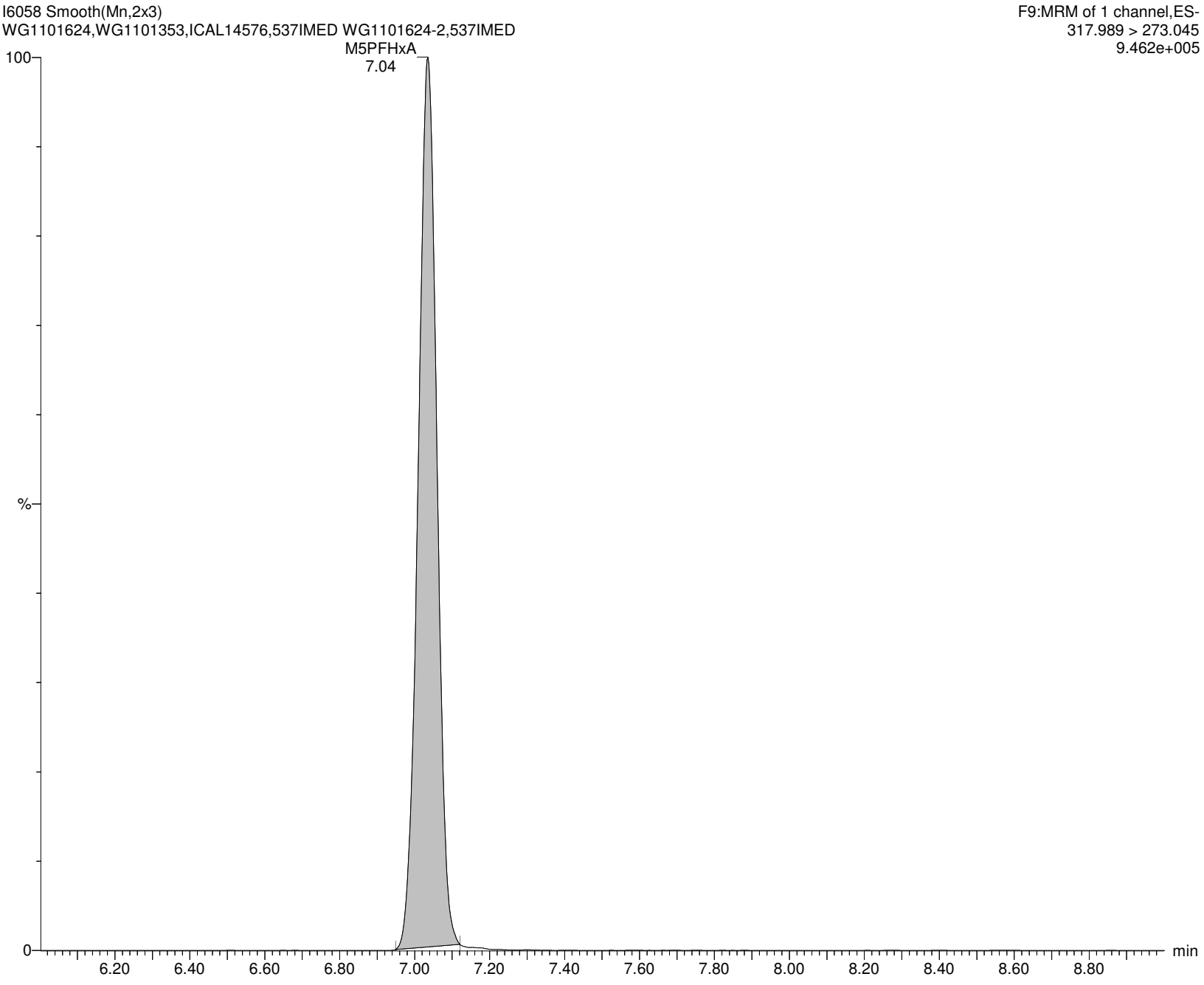

all concentration units in (ng/mL)

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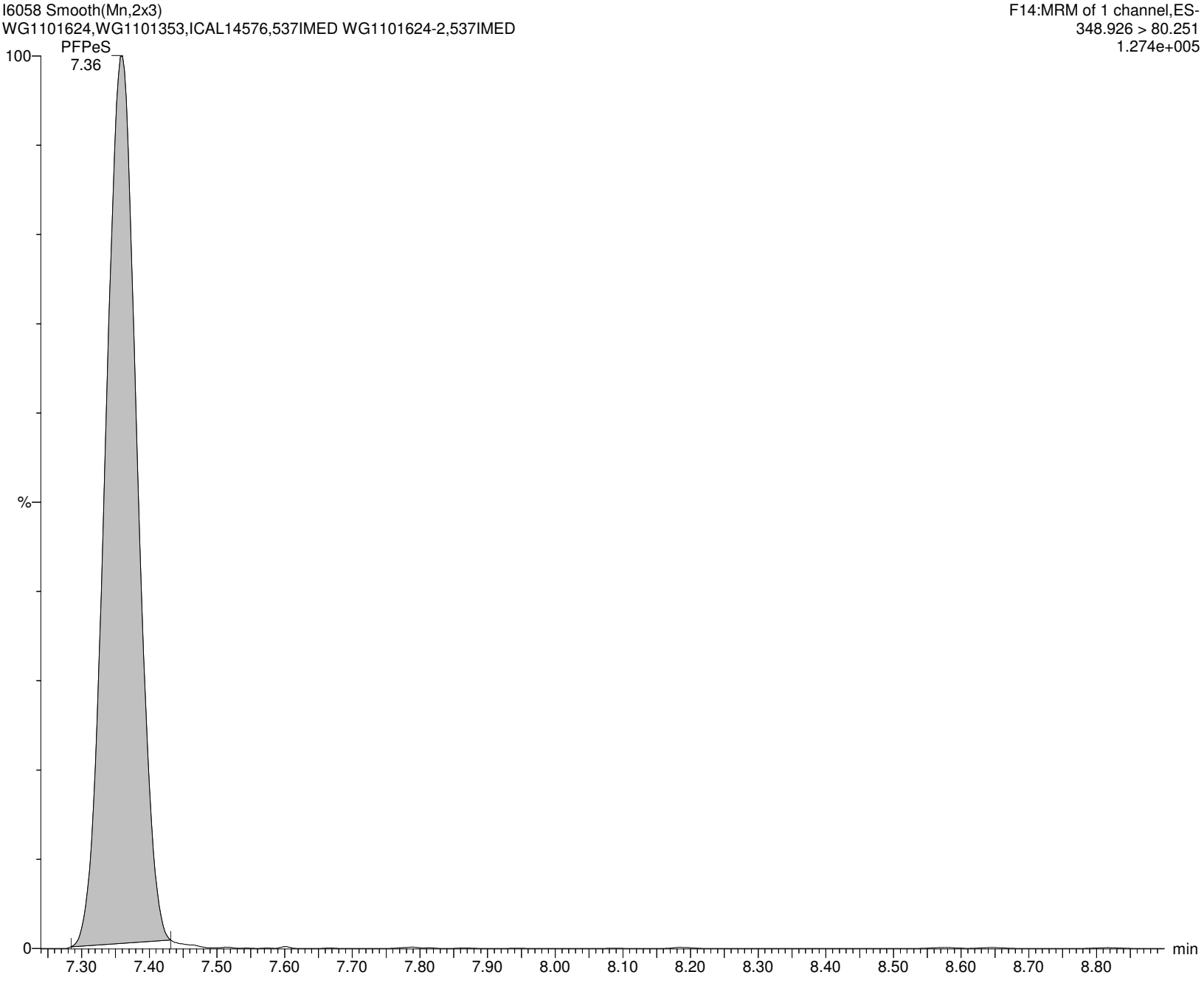

all concentration units in (ng/mL)

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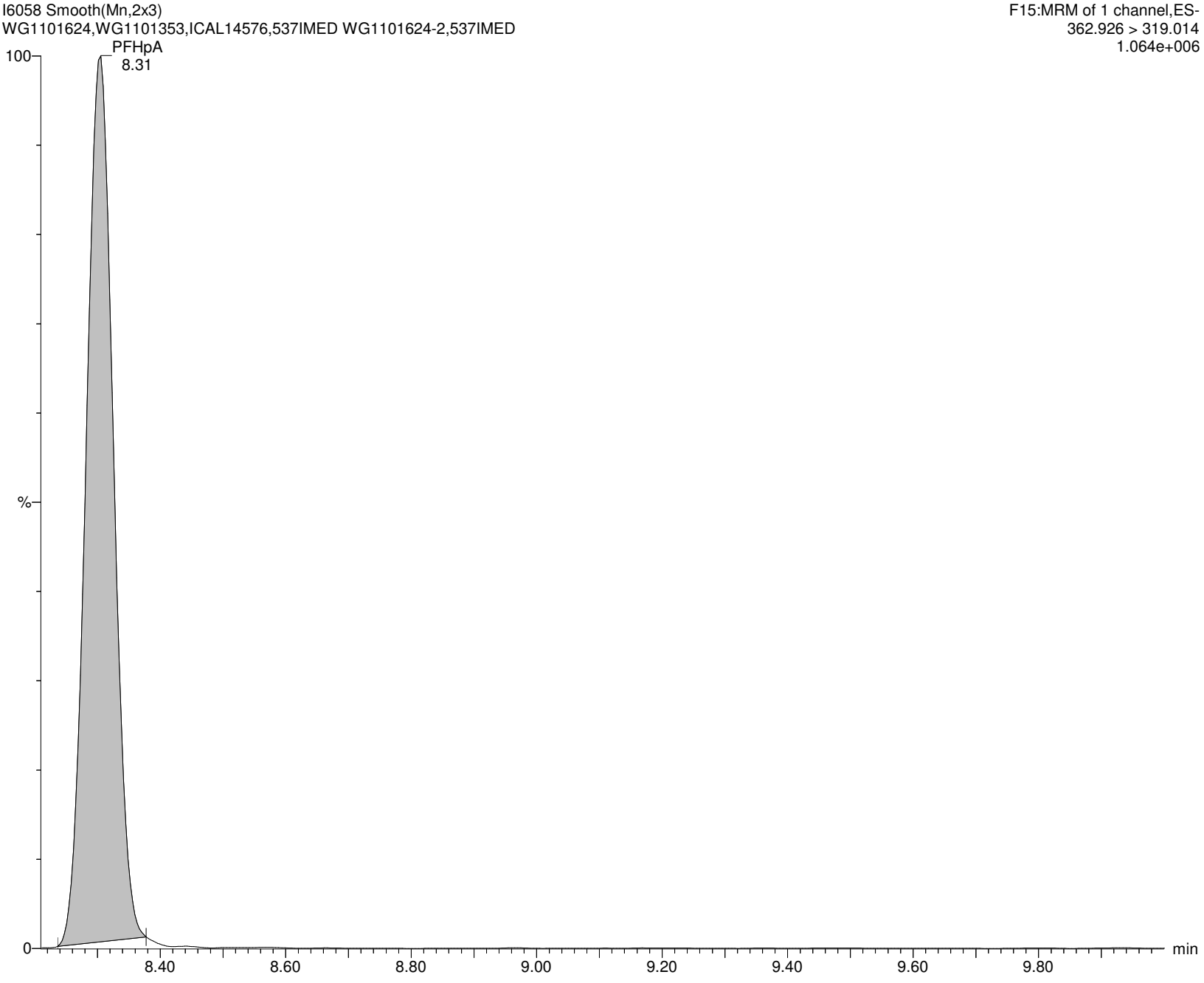

all concentration units in (ng/mL)

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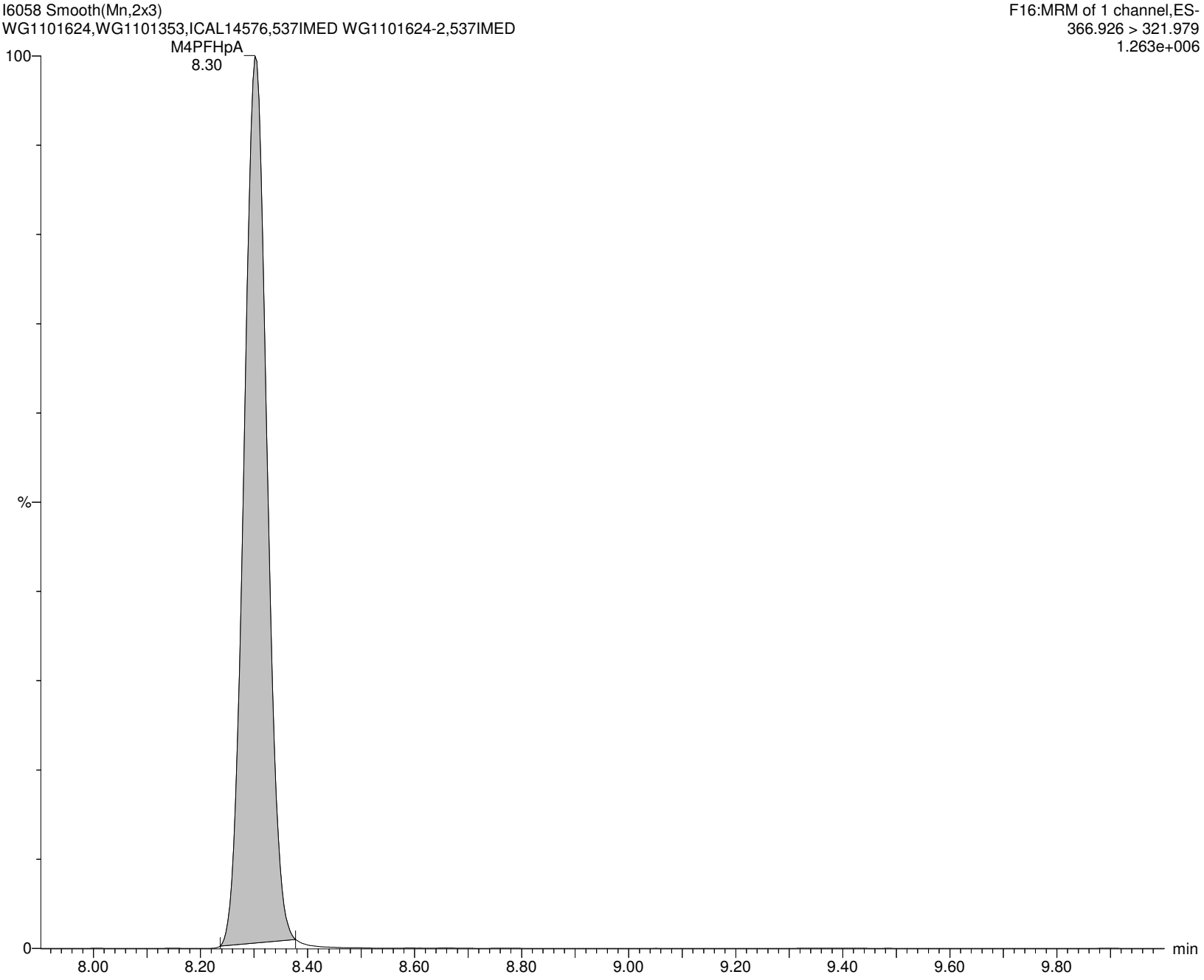

all concentration units in (ng/mL)

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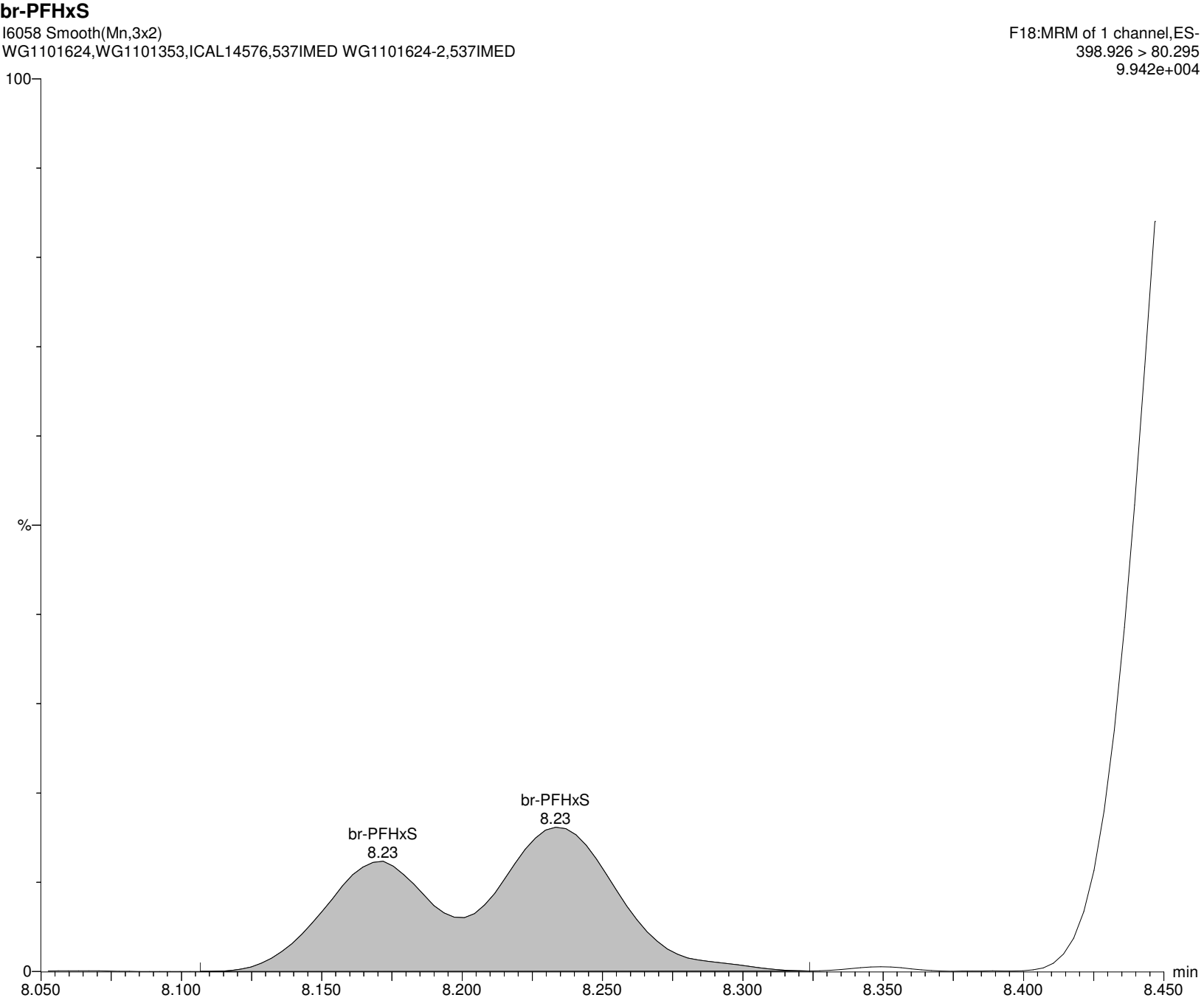

all concentration units in (ng/mL)

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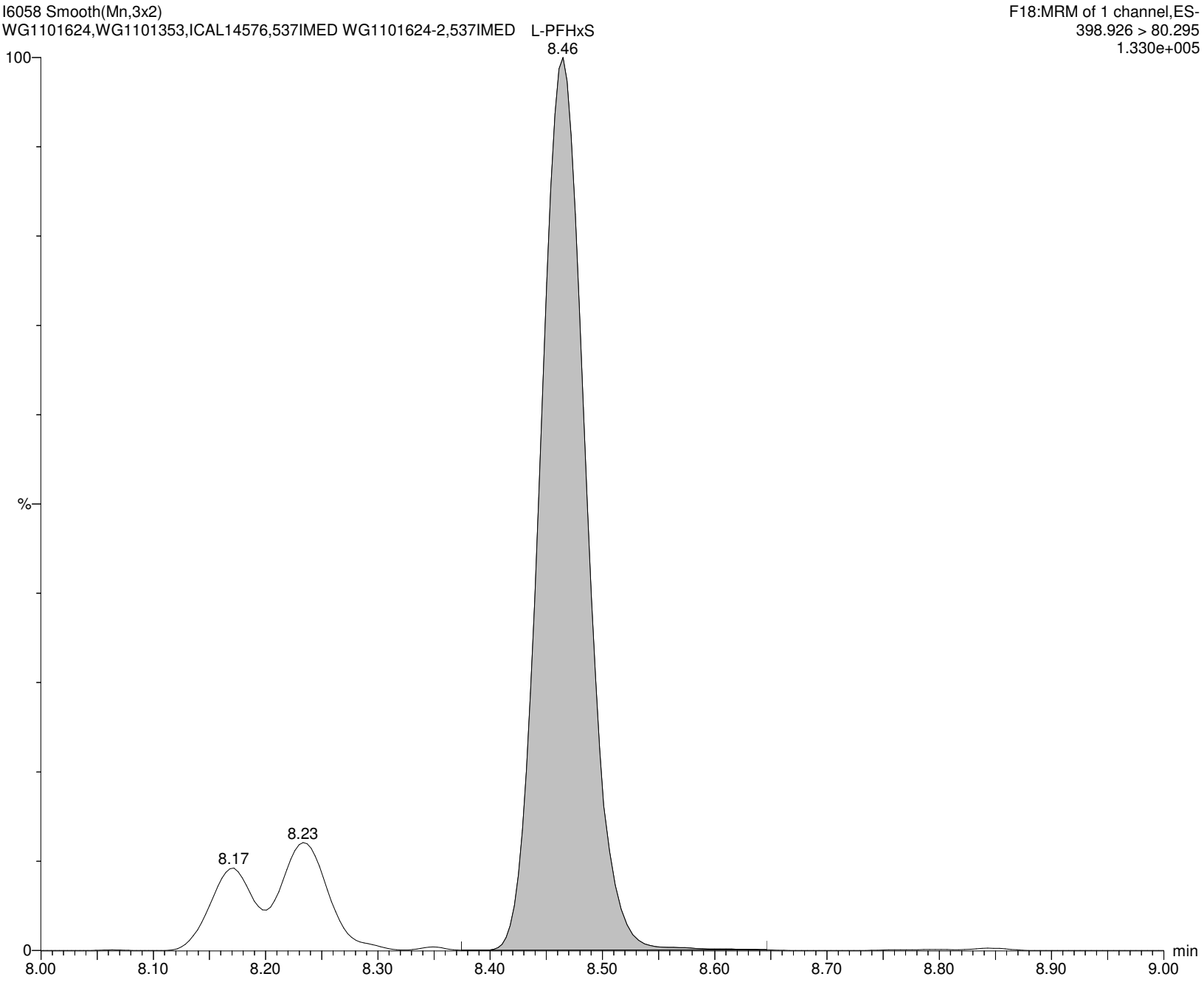

all concentration units in (ng/mL)

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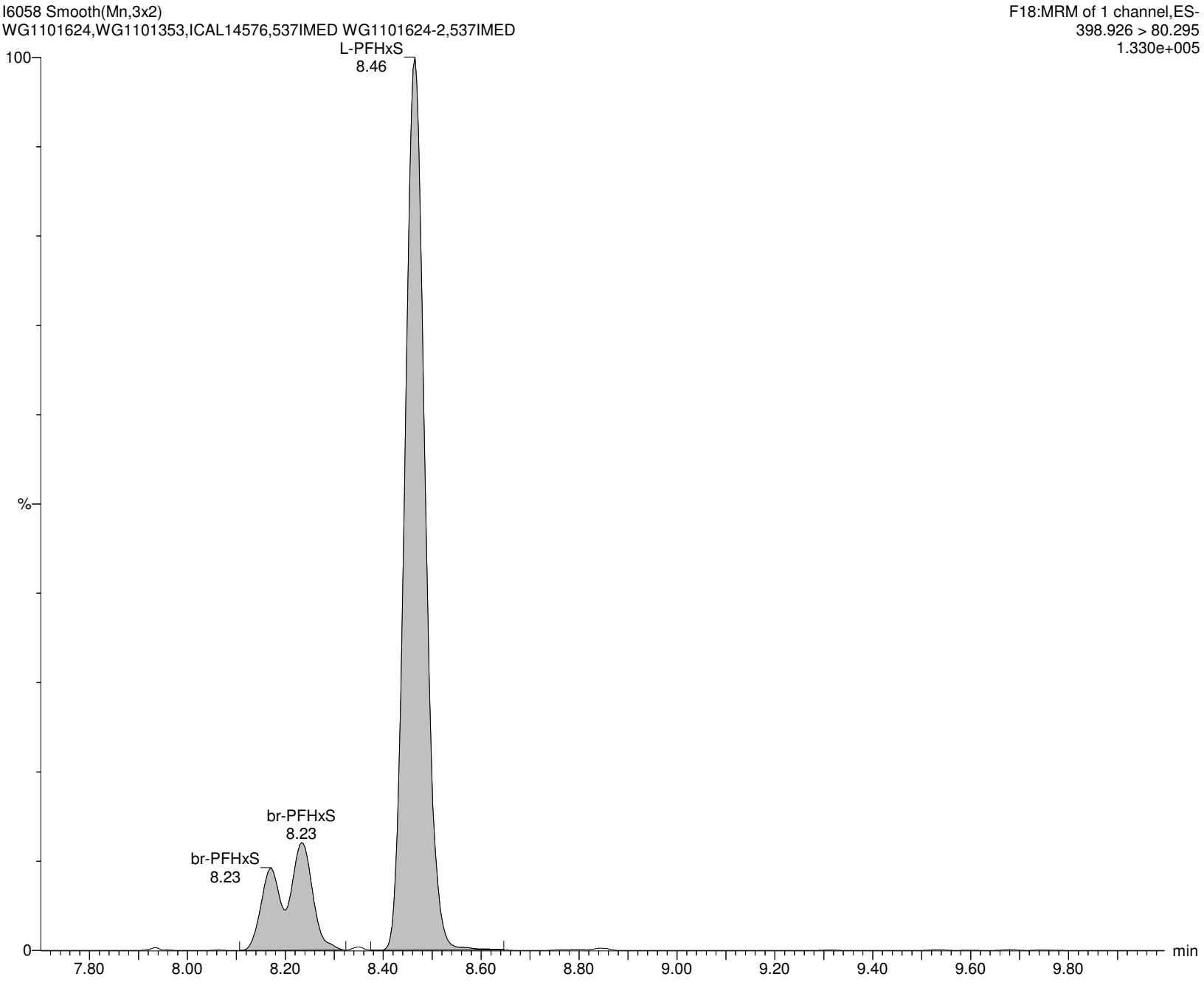

all concentration units in (ng/mL)

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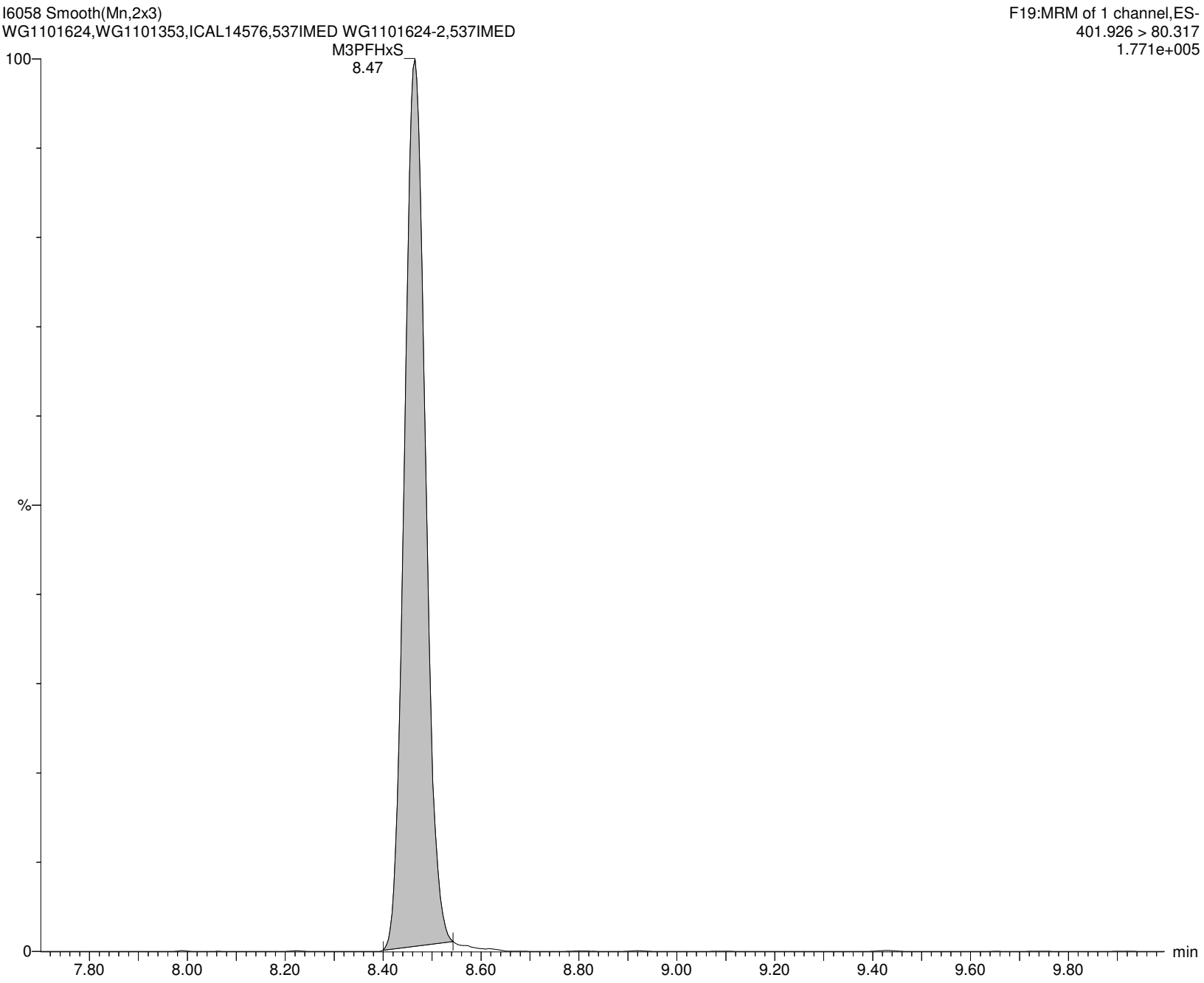

all concentration units in (ng/mL)

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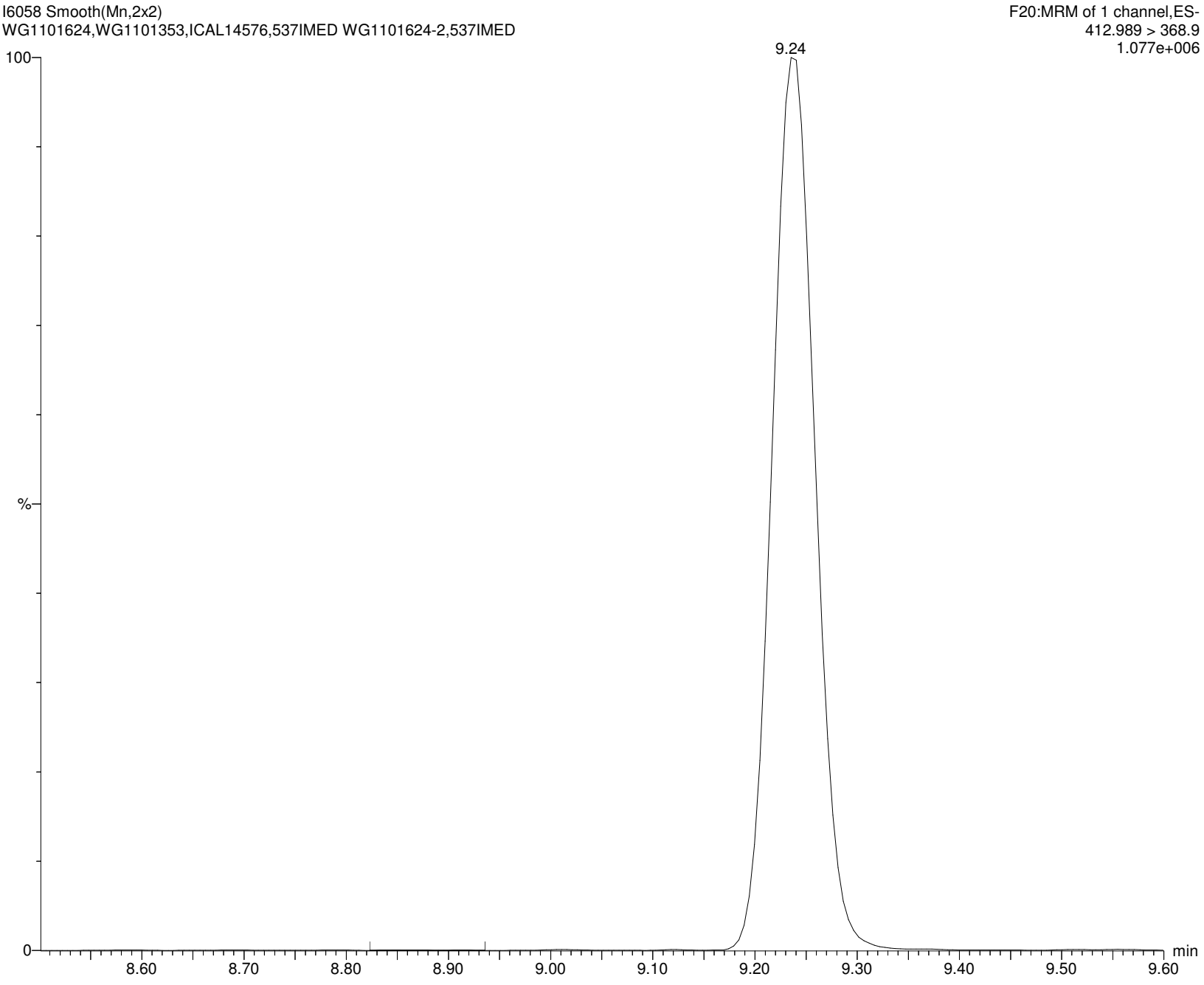

all concentration units in (ng/mL)

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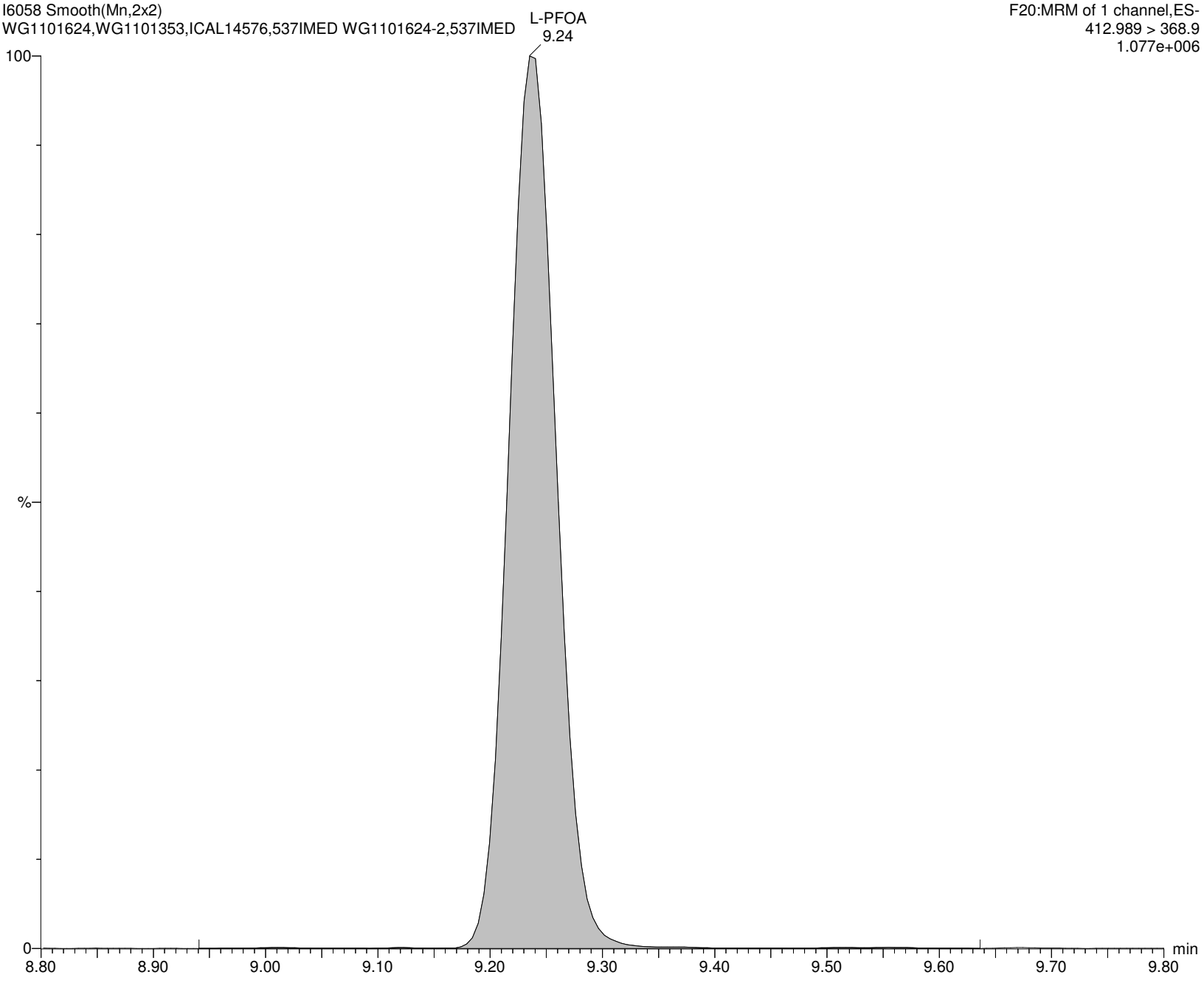

all concentration units in (ng/mL)

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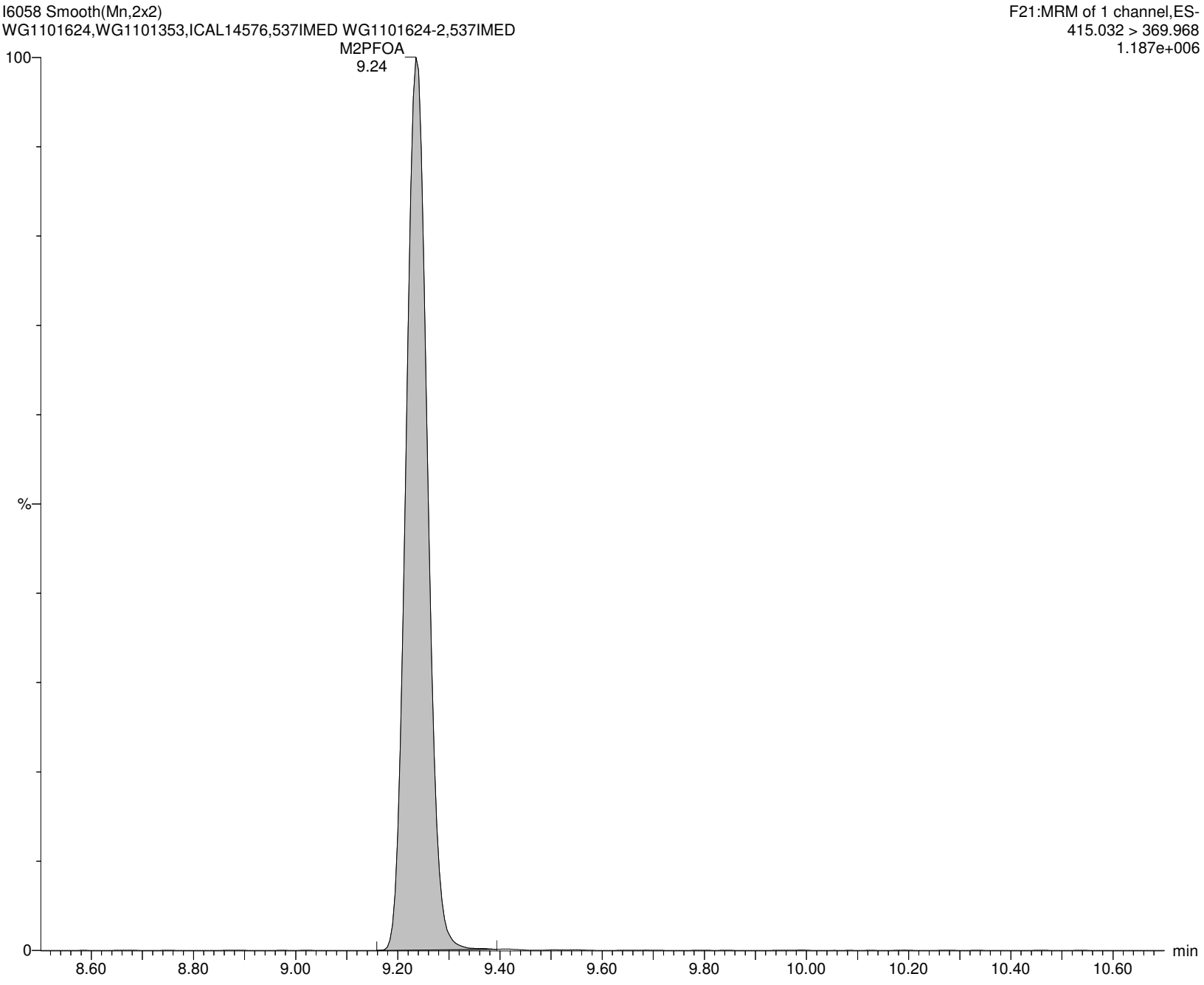

all concentration units in (ng/mL)

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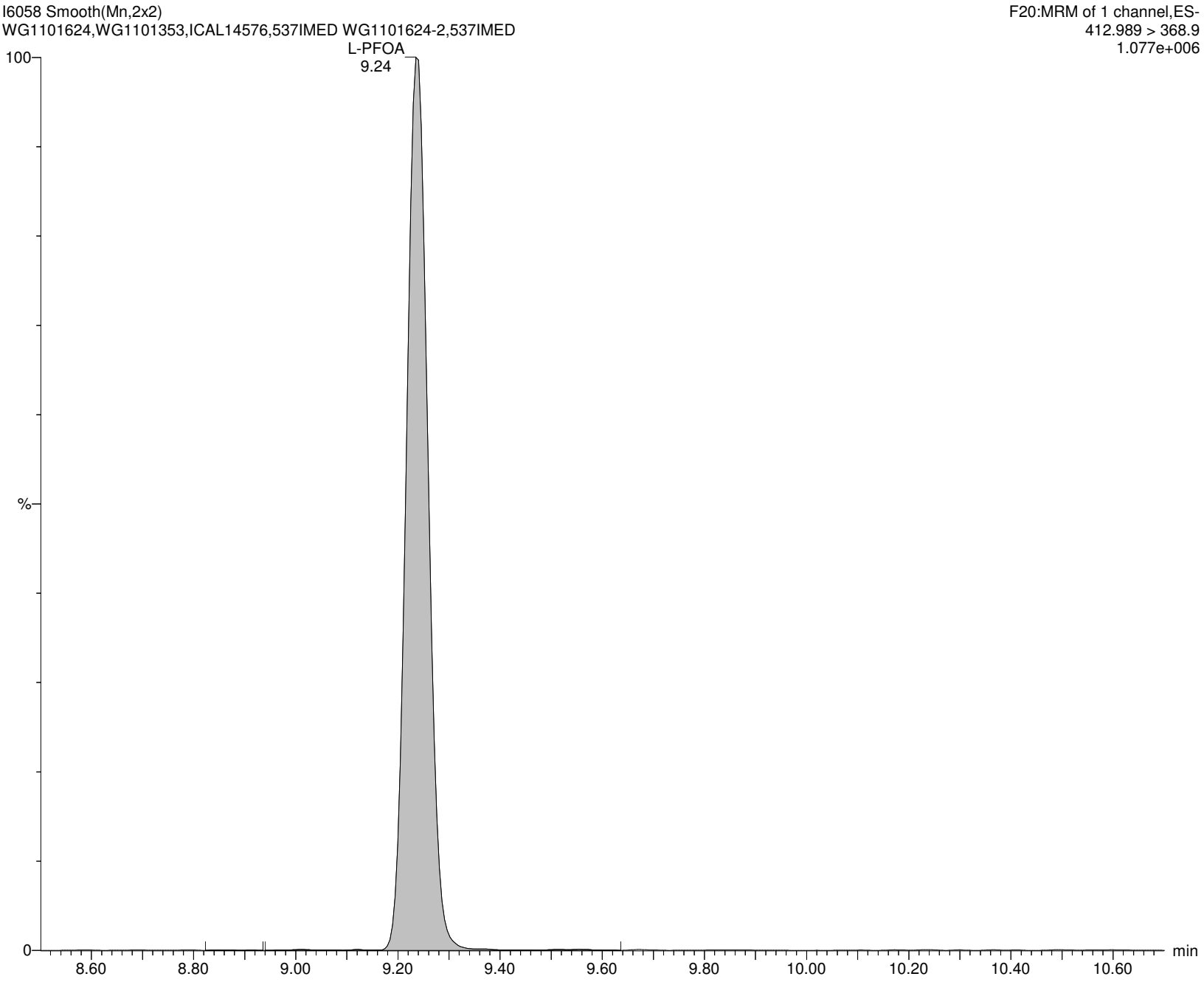

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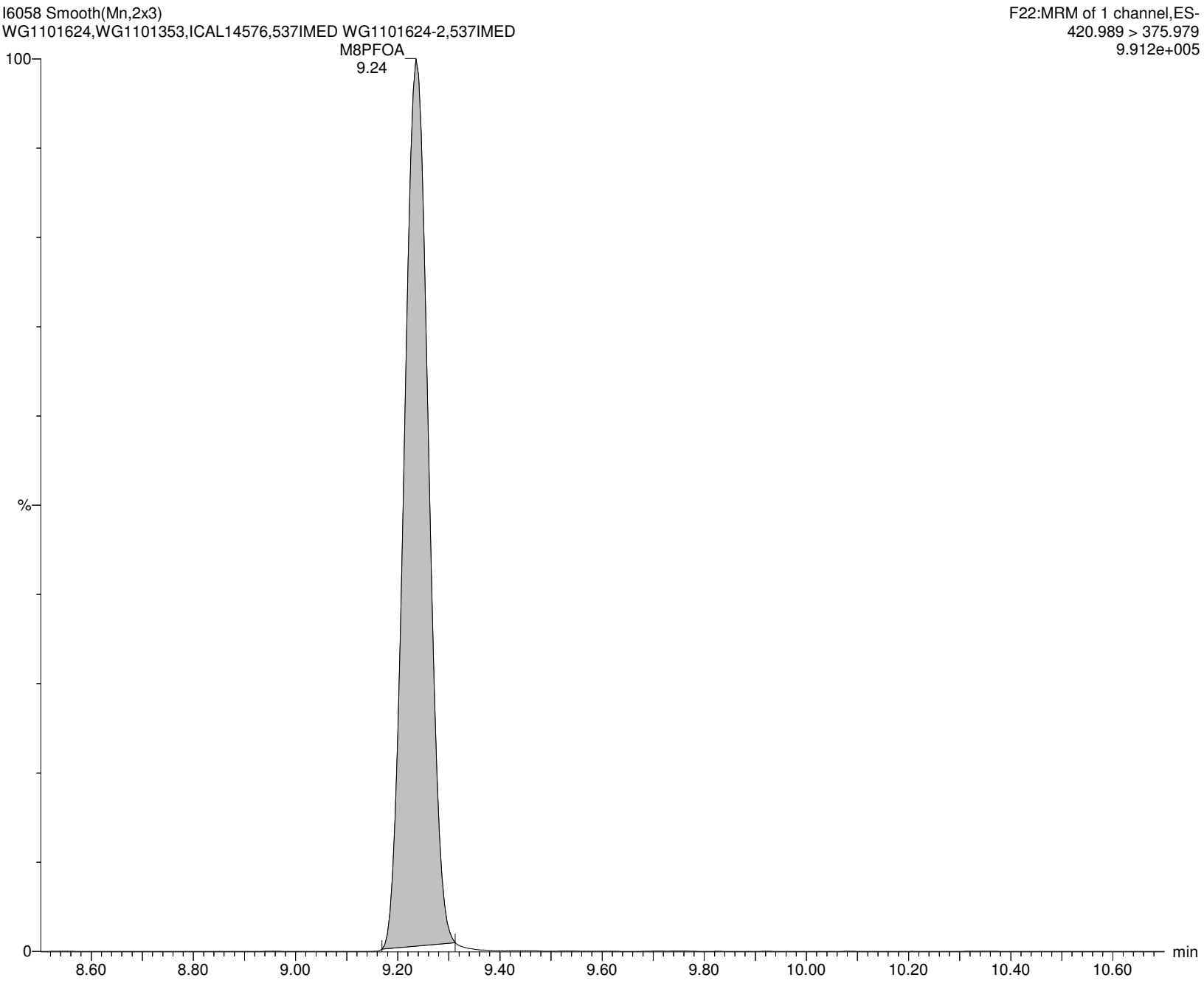

all concentration units in (ng/mL)

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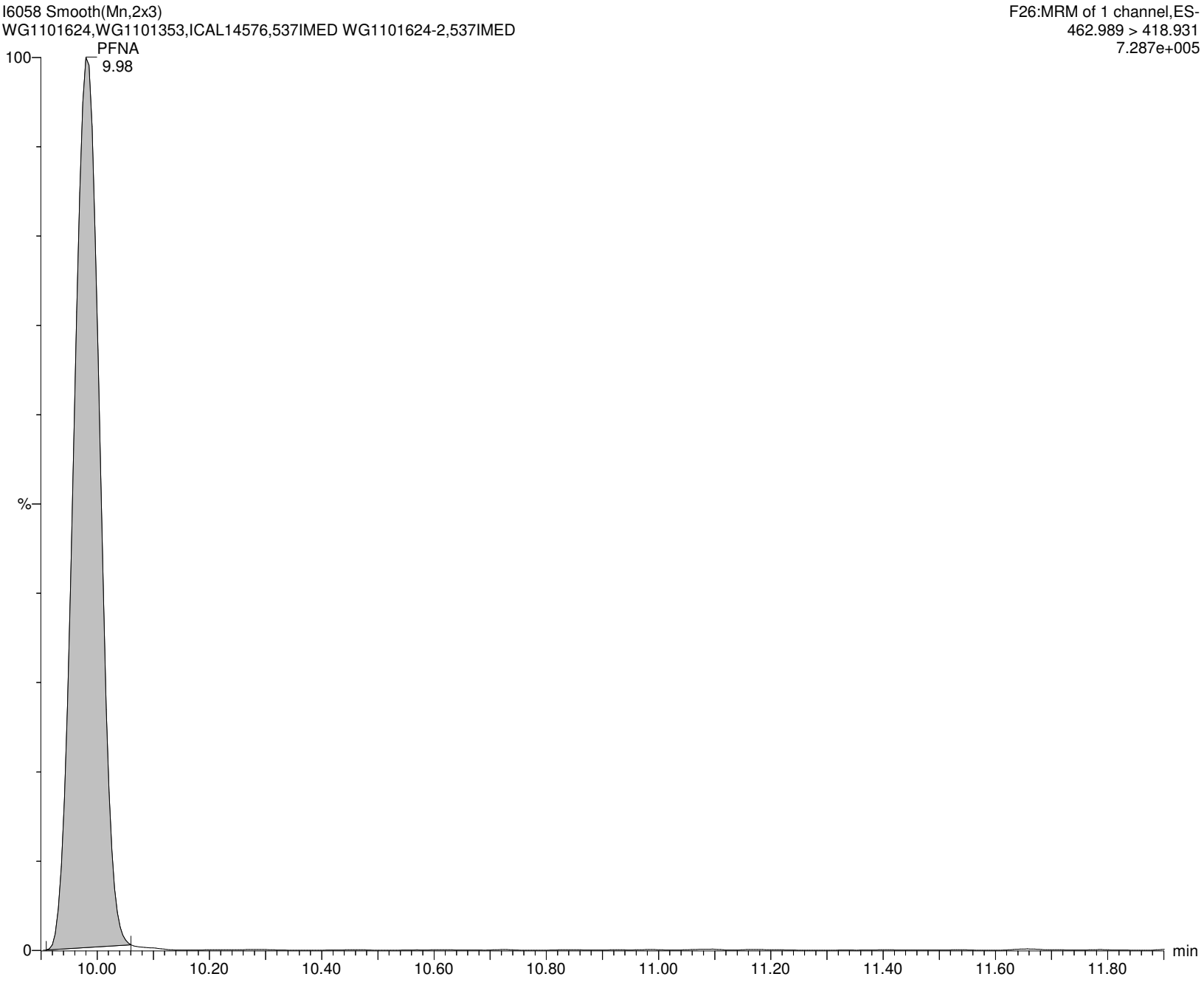

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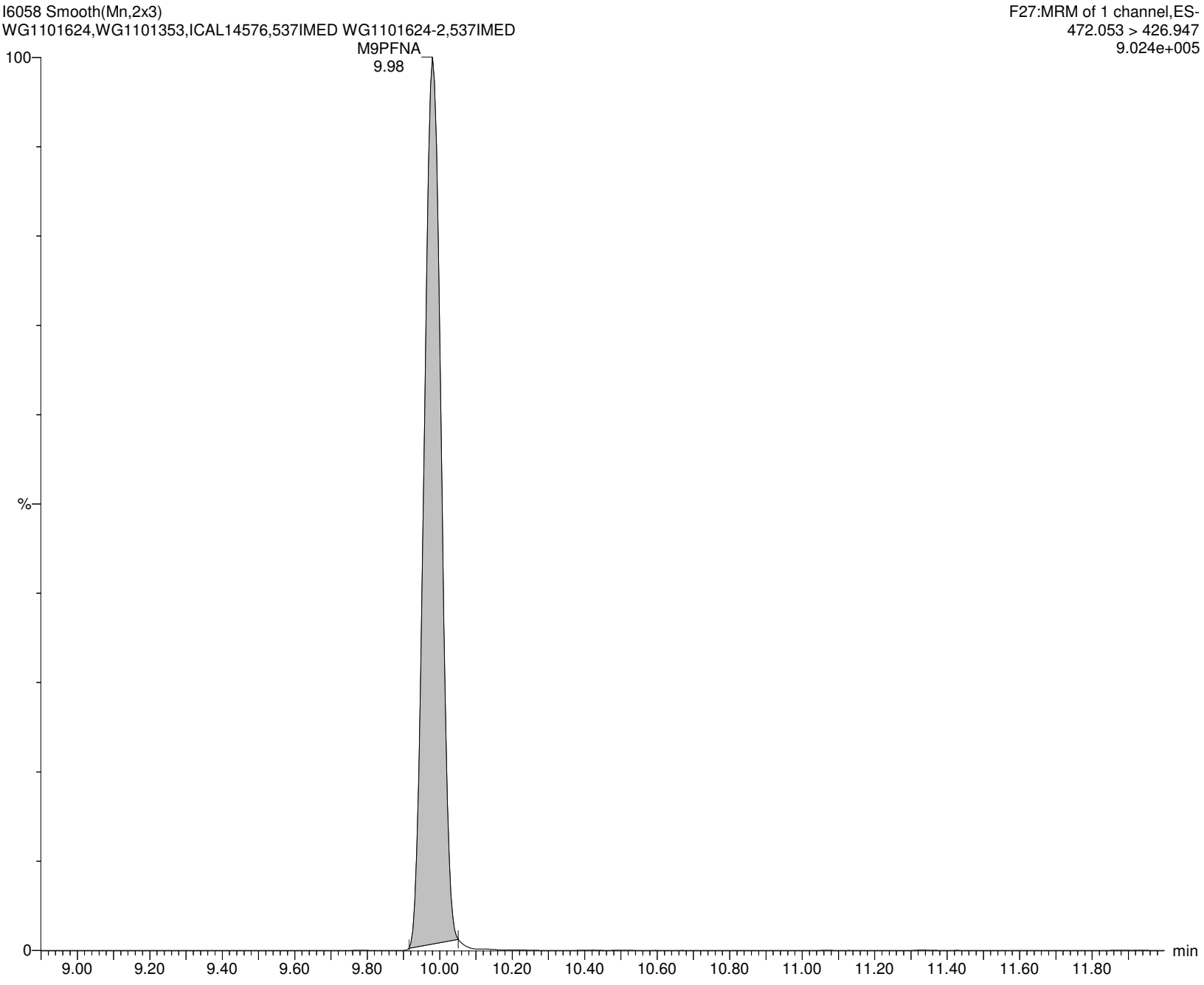

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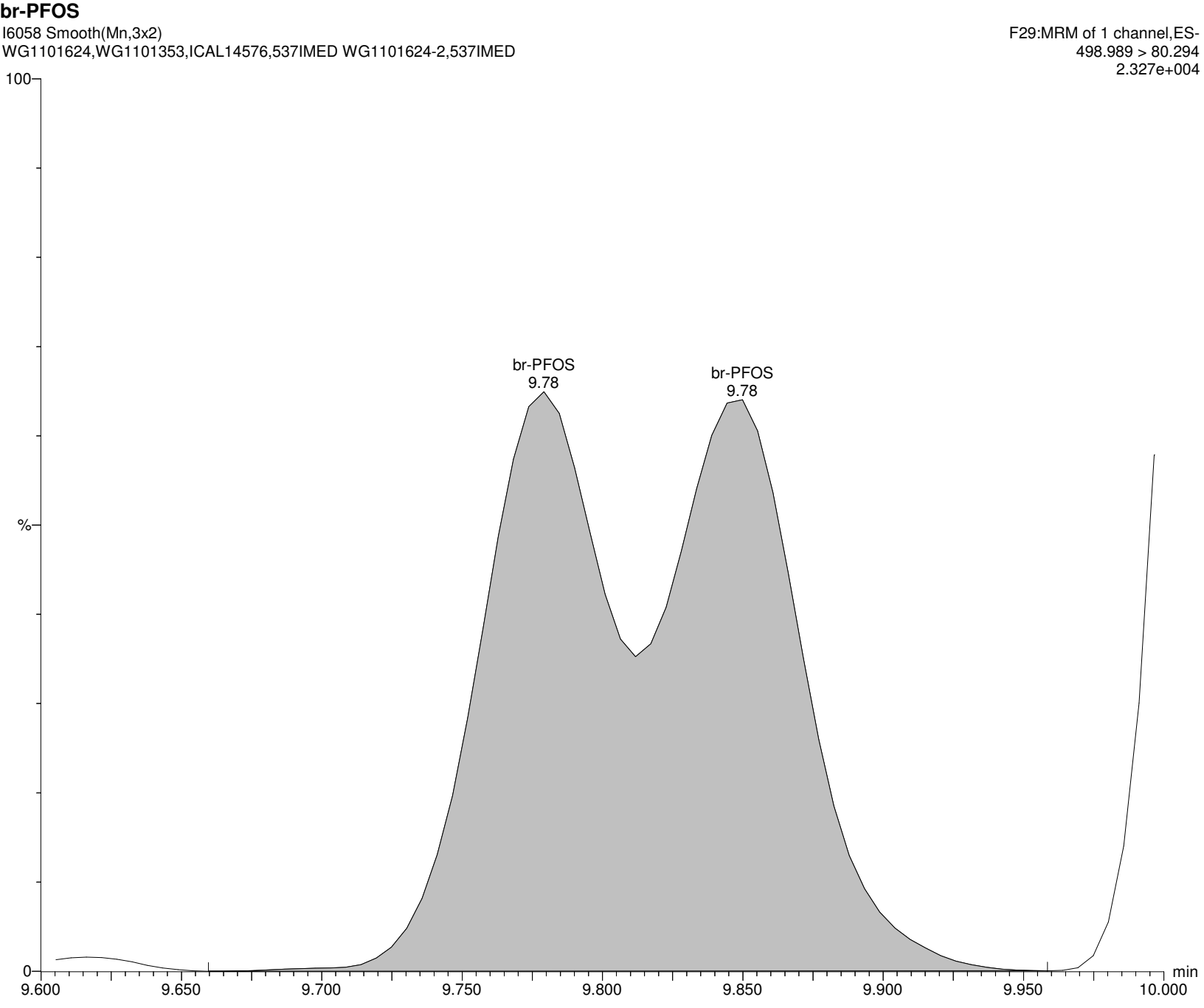

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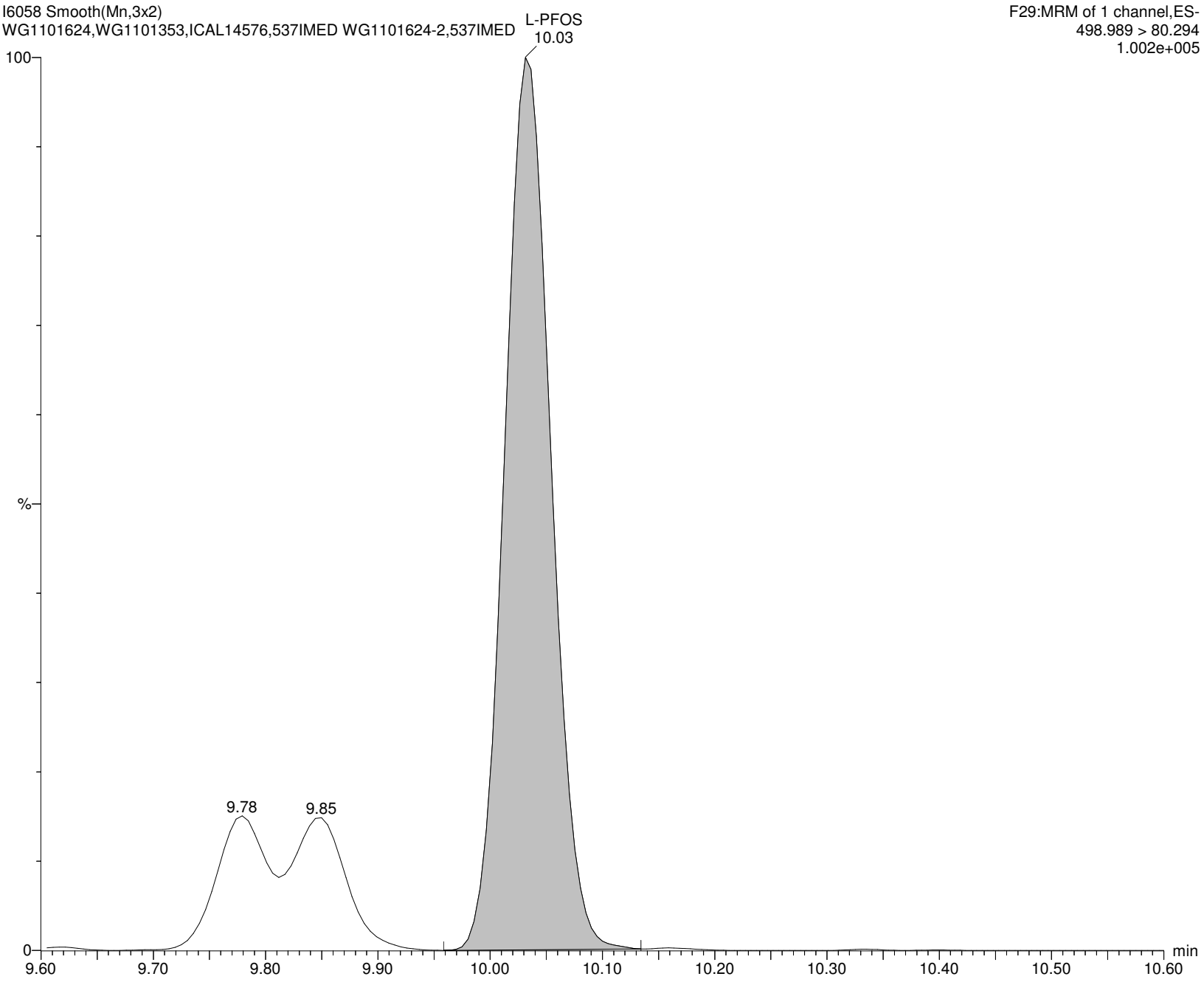
L-PFOS



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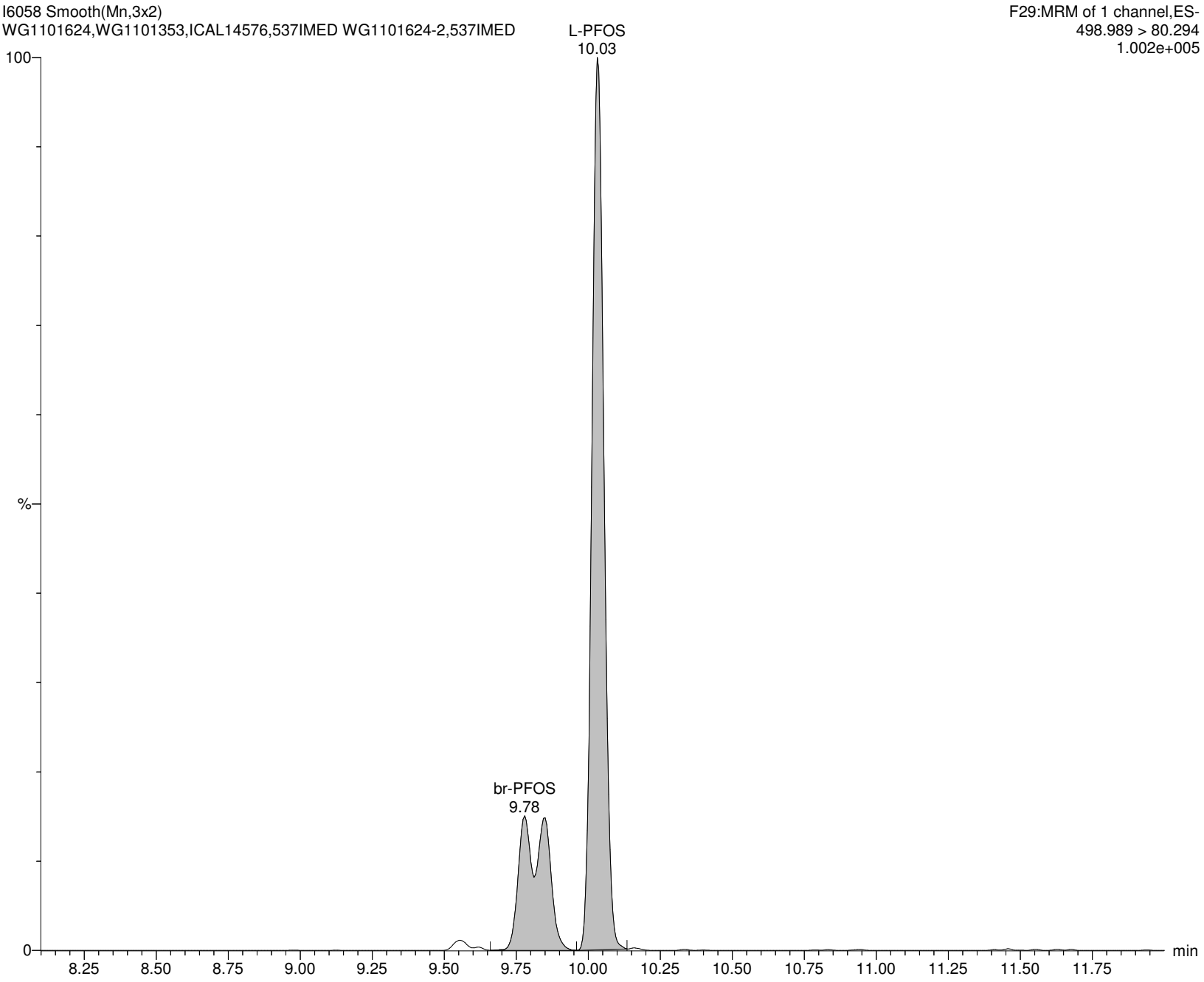
PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
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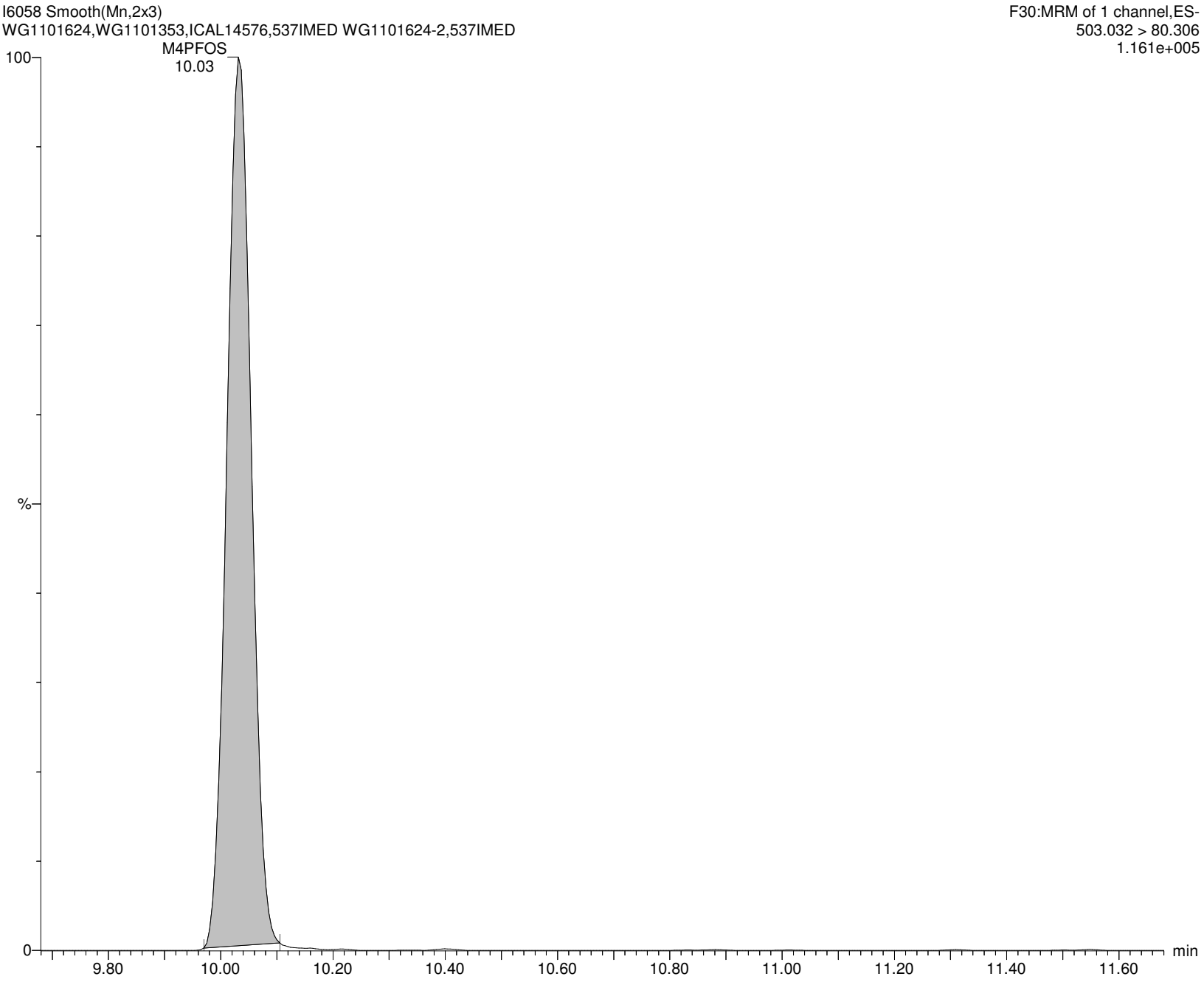

all concentration units in (ng/mL)

Alpha Analytical Inc.
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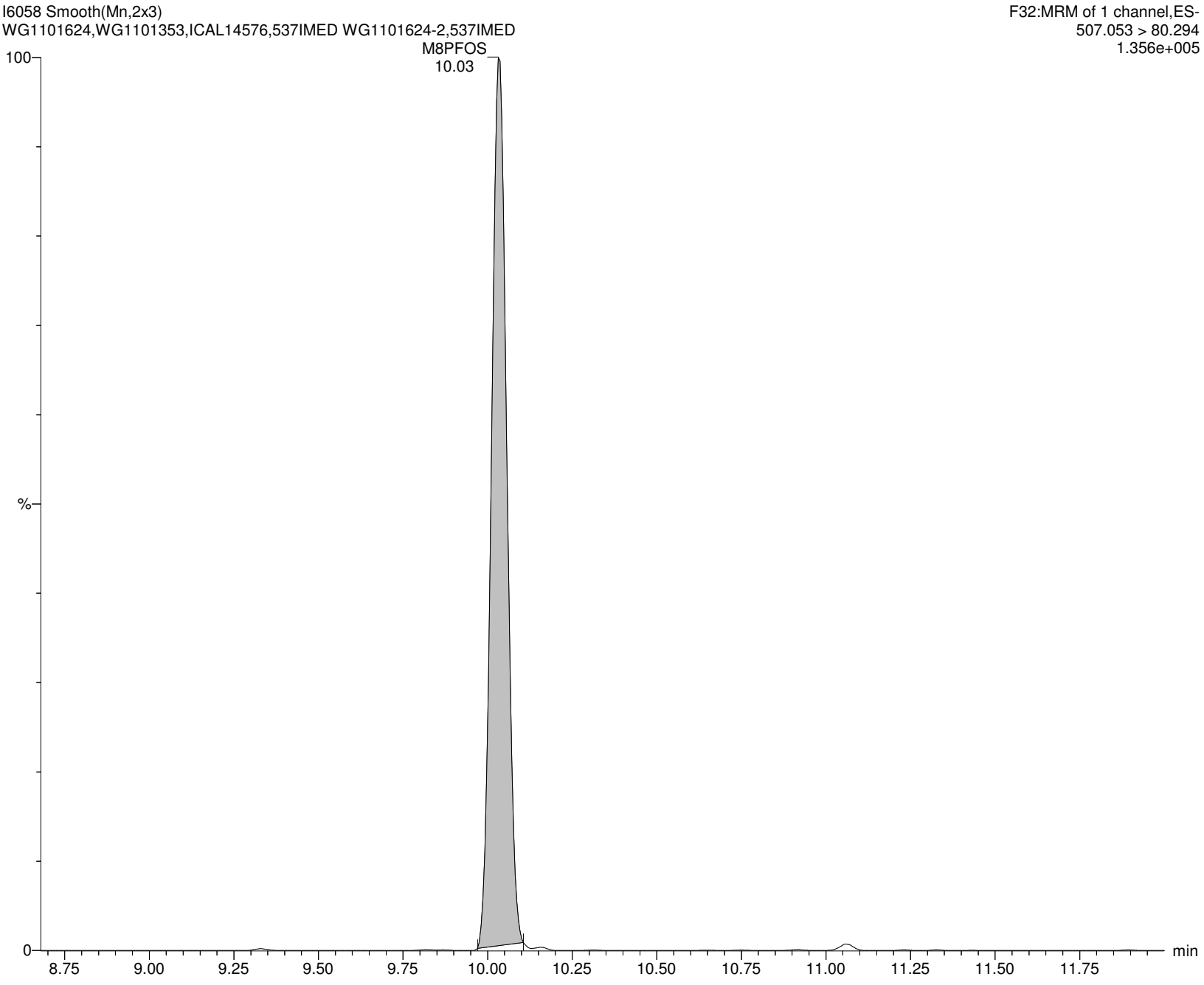

all concentration units in (ng/mL)

Alpha Analytical Inc.
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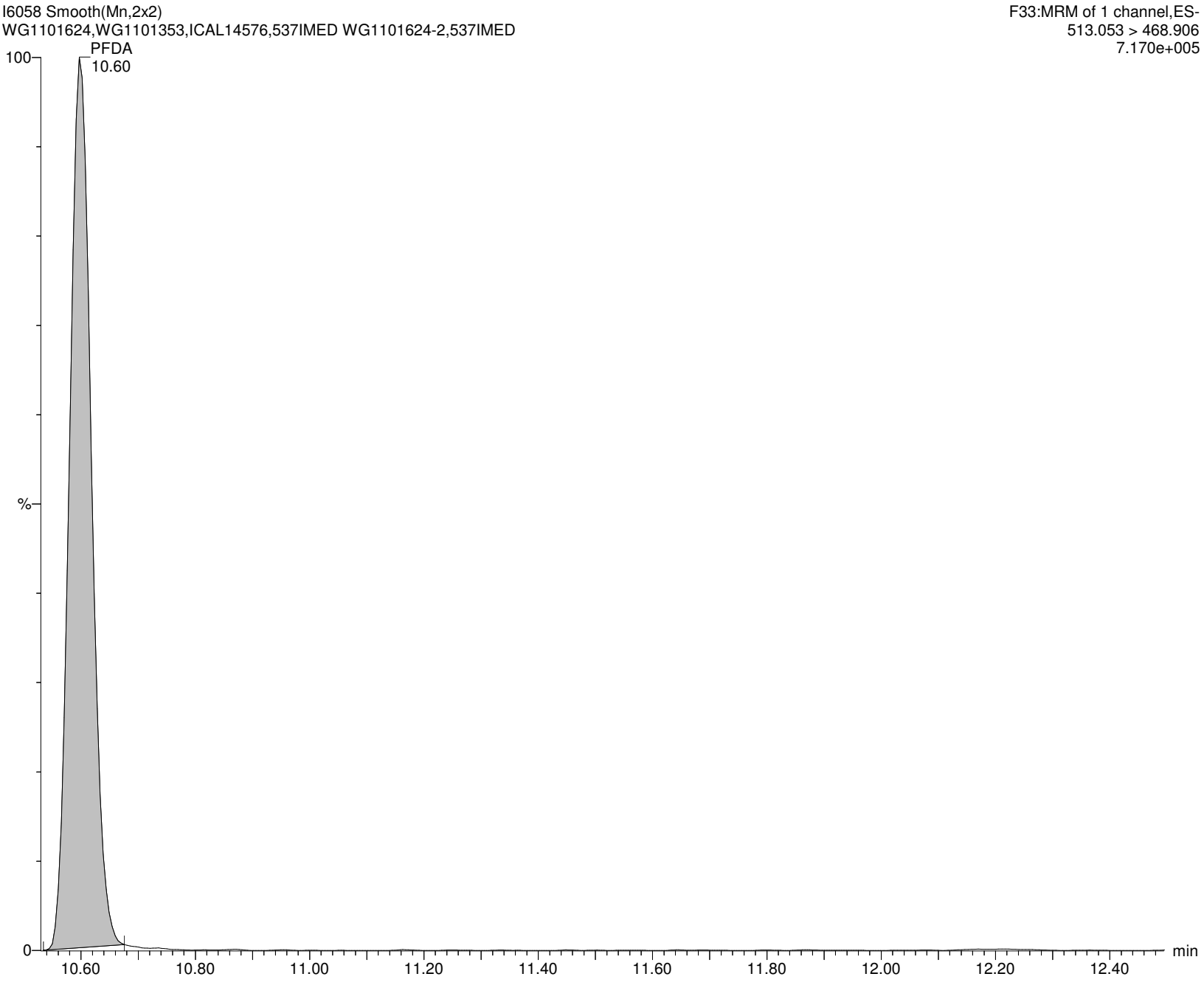

all concentration units in (ng/mL)

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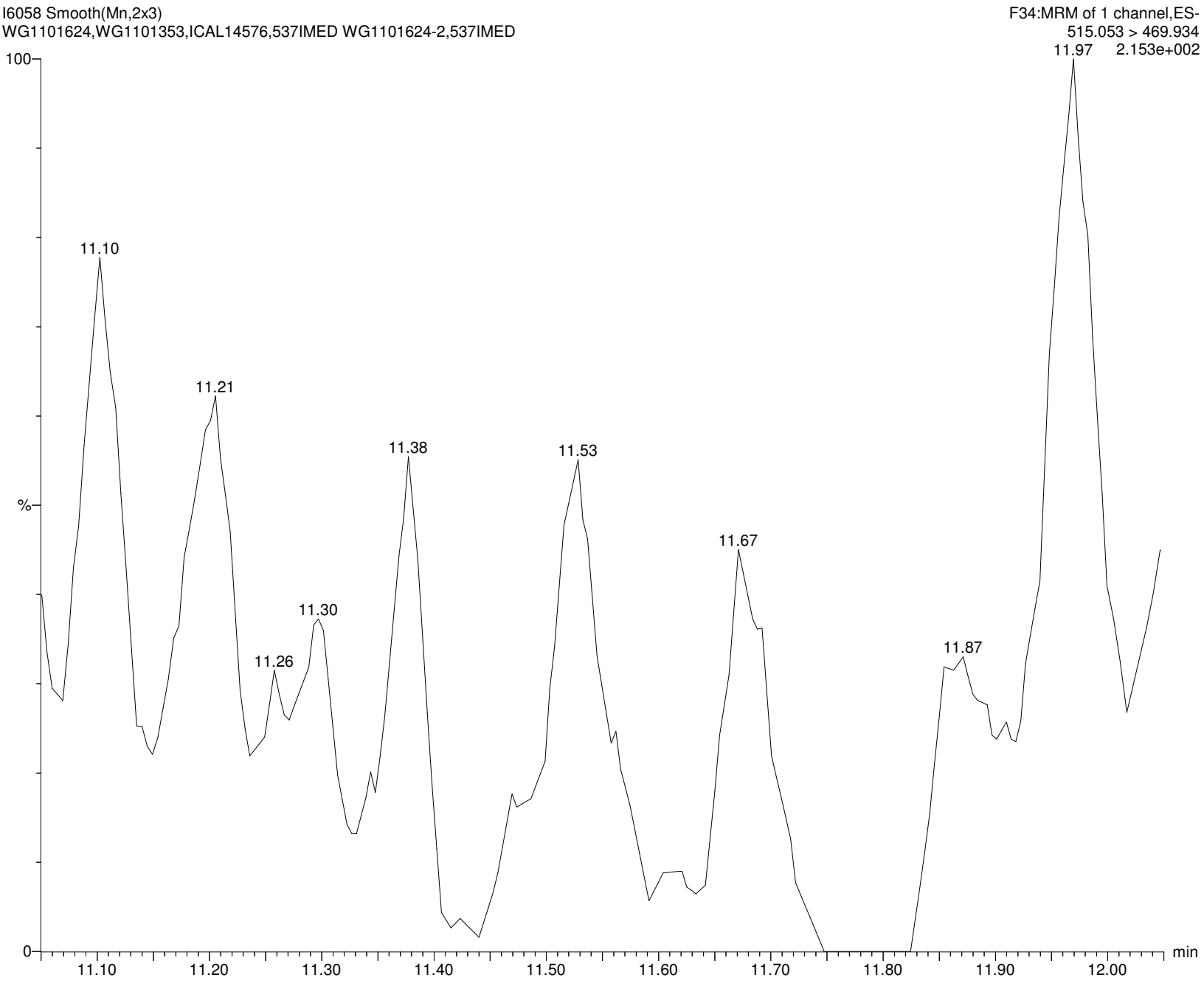

all concentration units in (ng/mL)

Alpha Analytical Inc.
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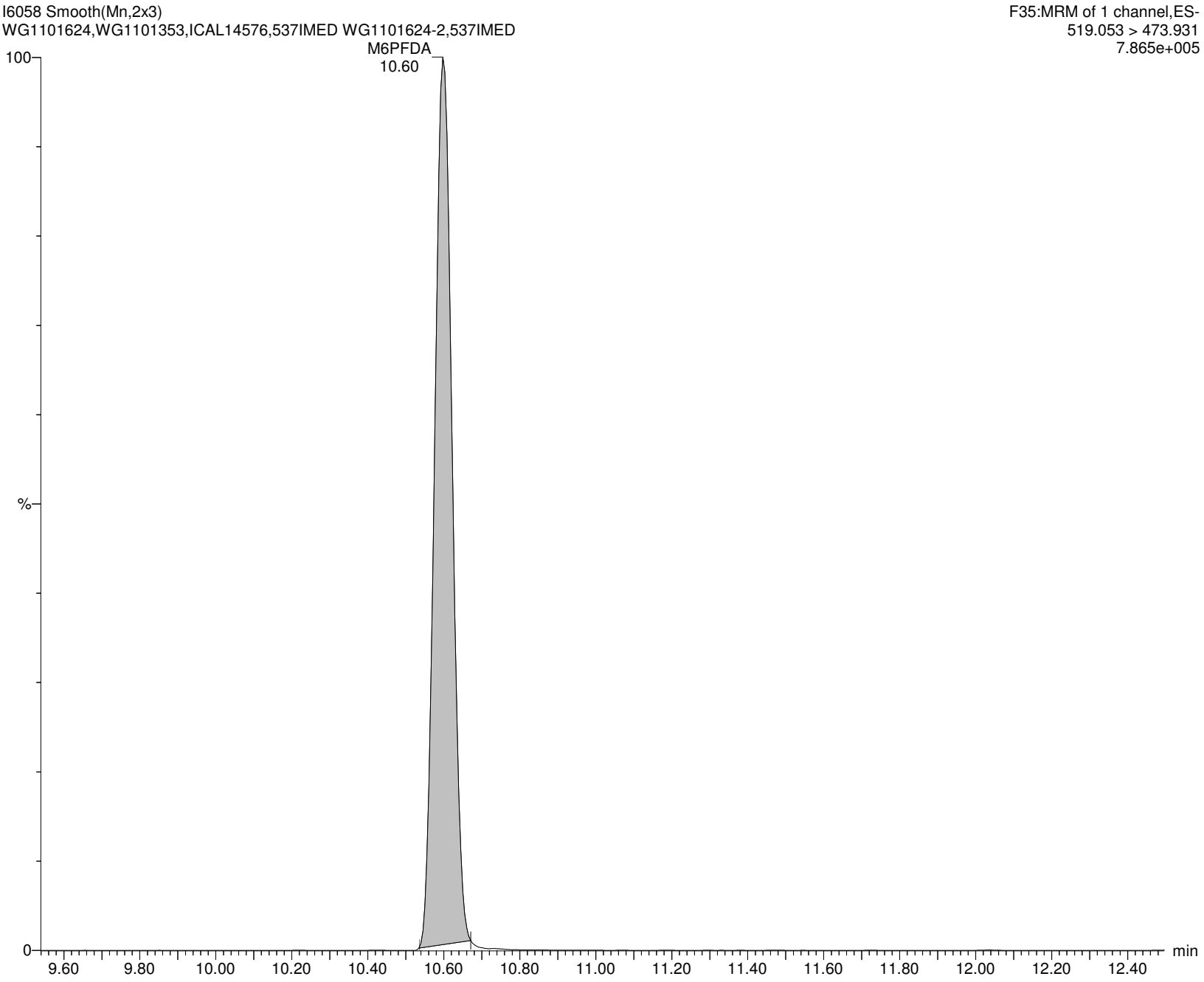

all concentration units in (ng/mL)

Alpha Analytical Inc.
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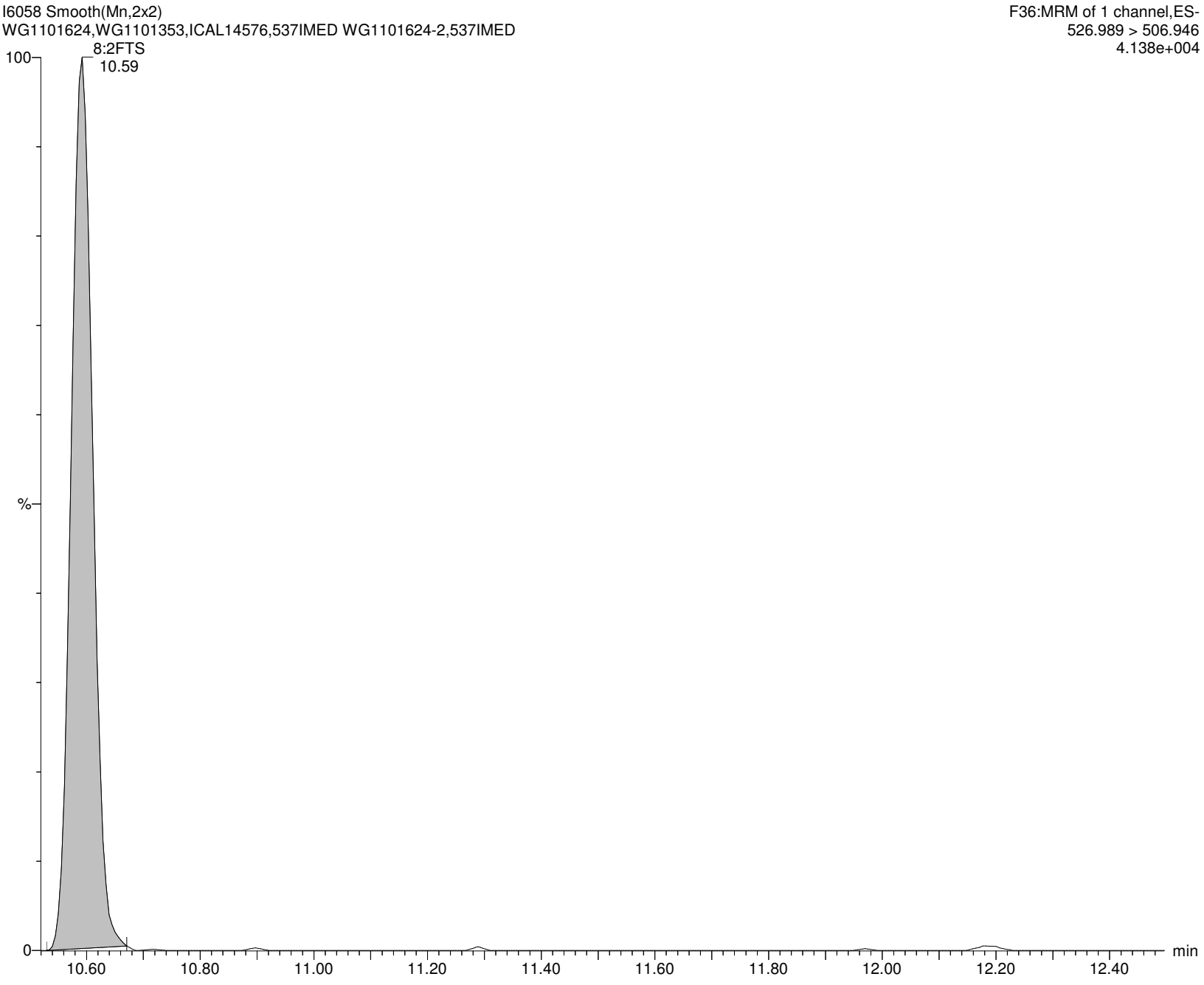
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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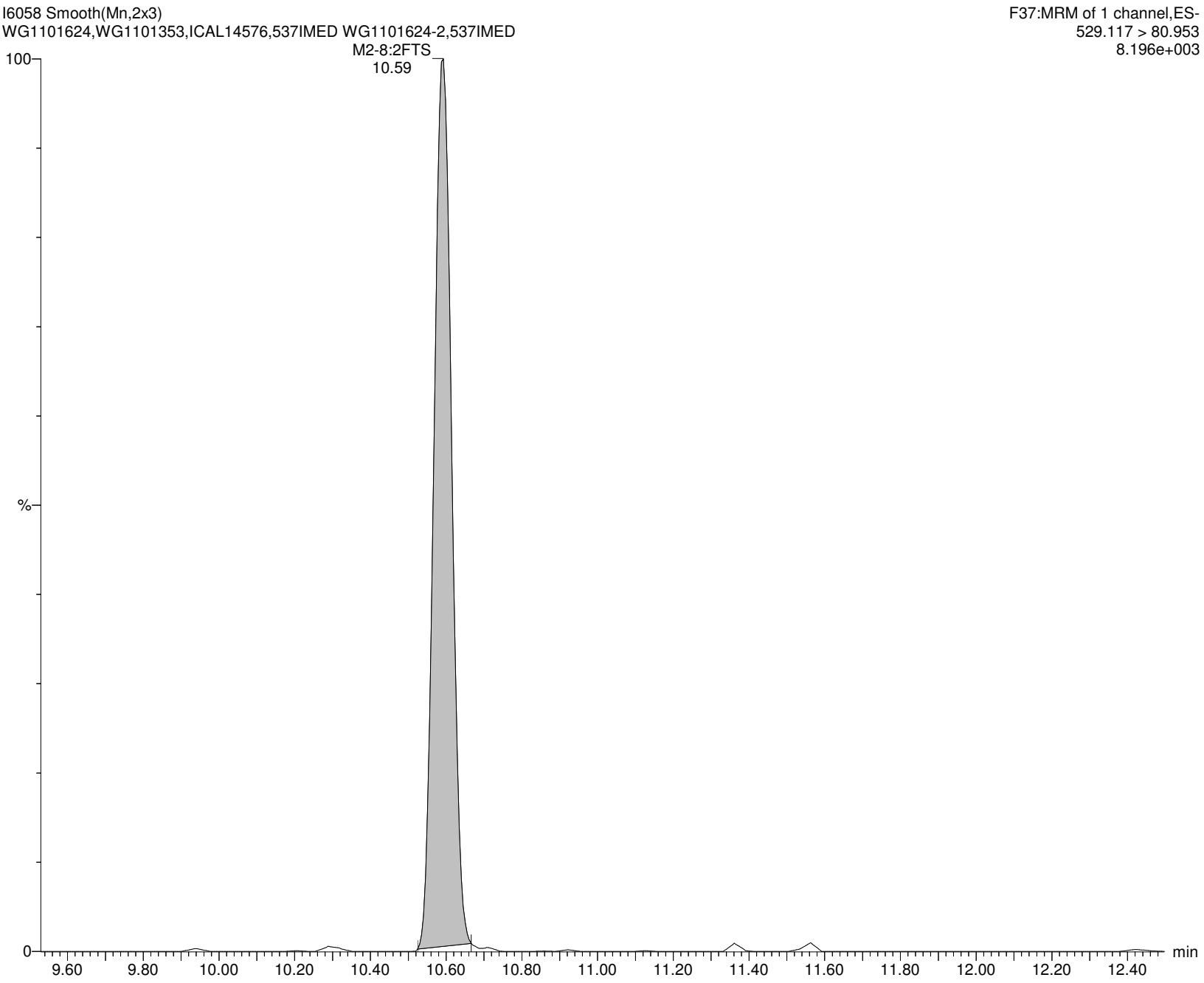

all concentration units in (ng/mL)

Alpha Analytical Inc.
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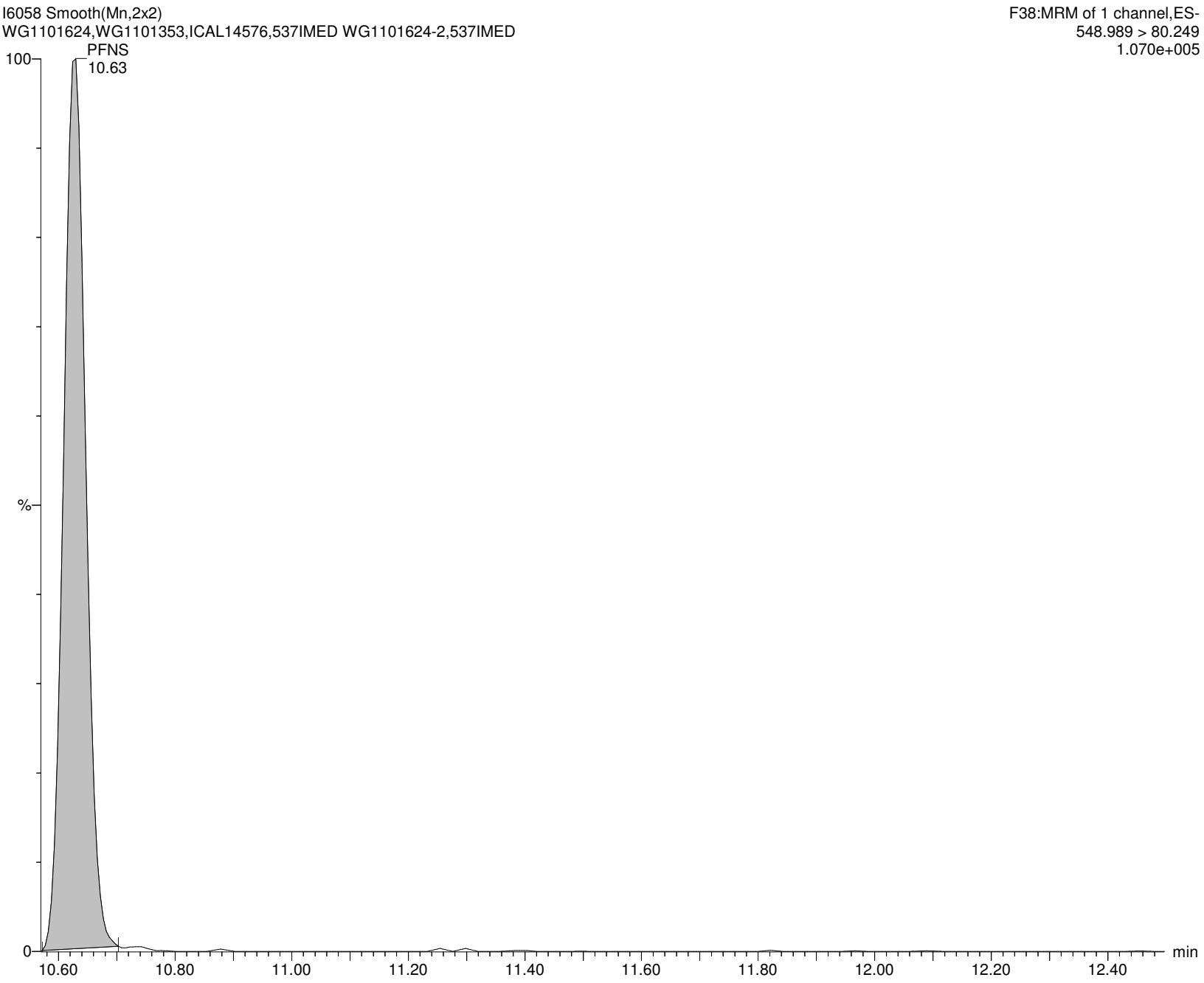

all concentration units in (ng/mL)

Alpha Analytical Inc.
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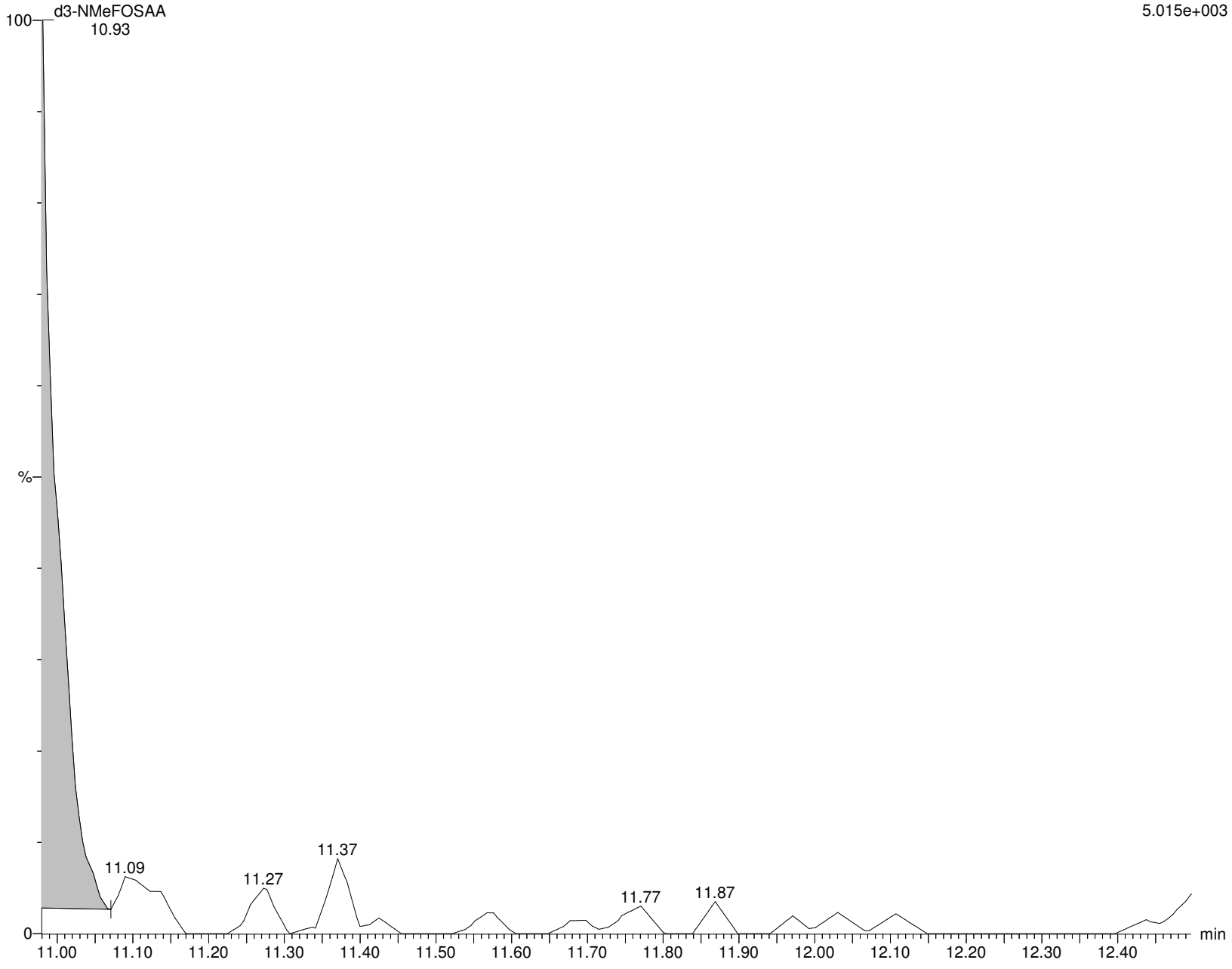

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
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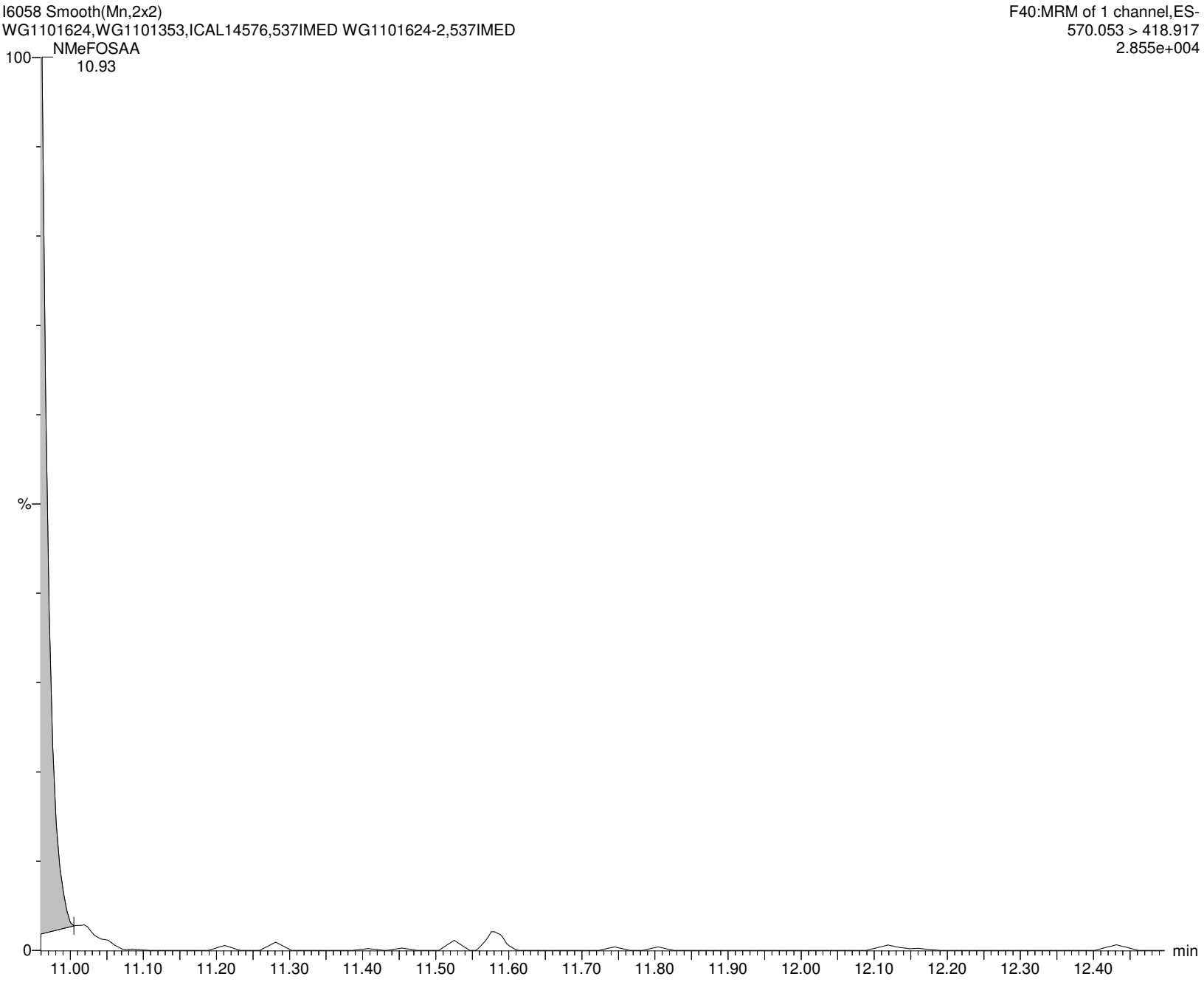

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
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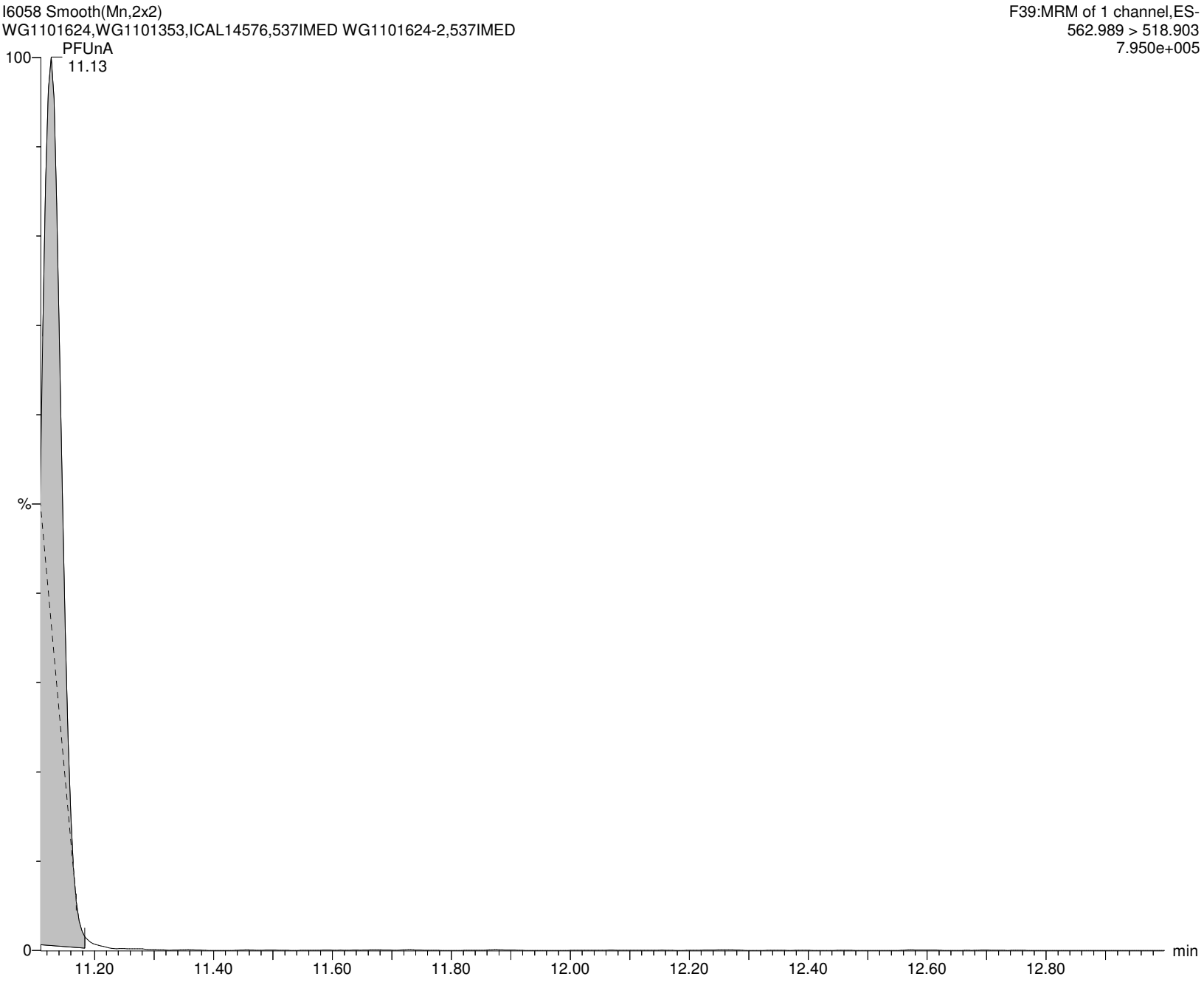

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
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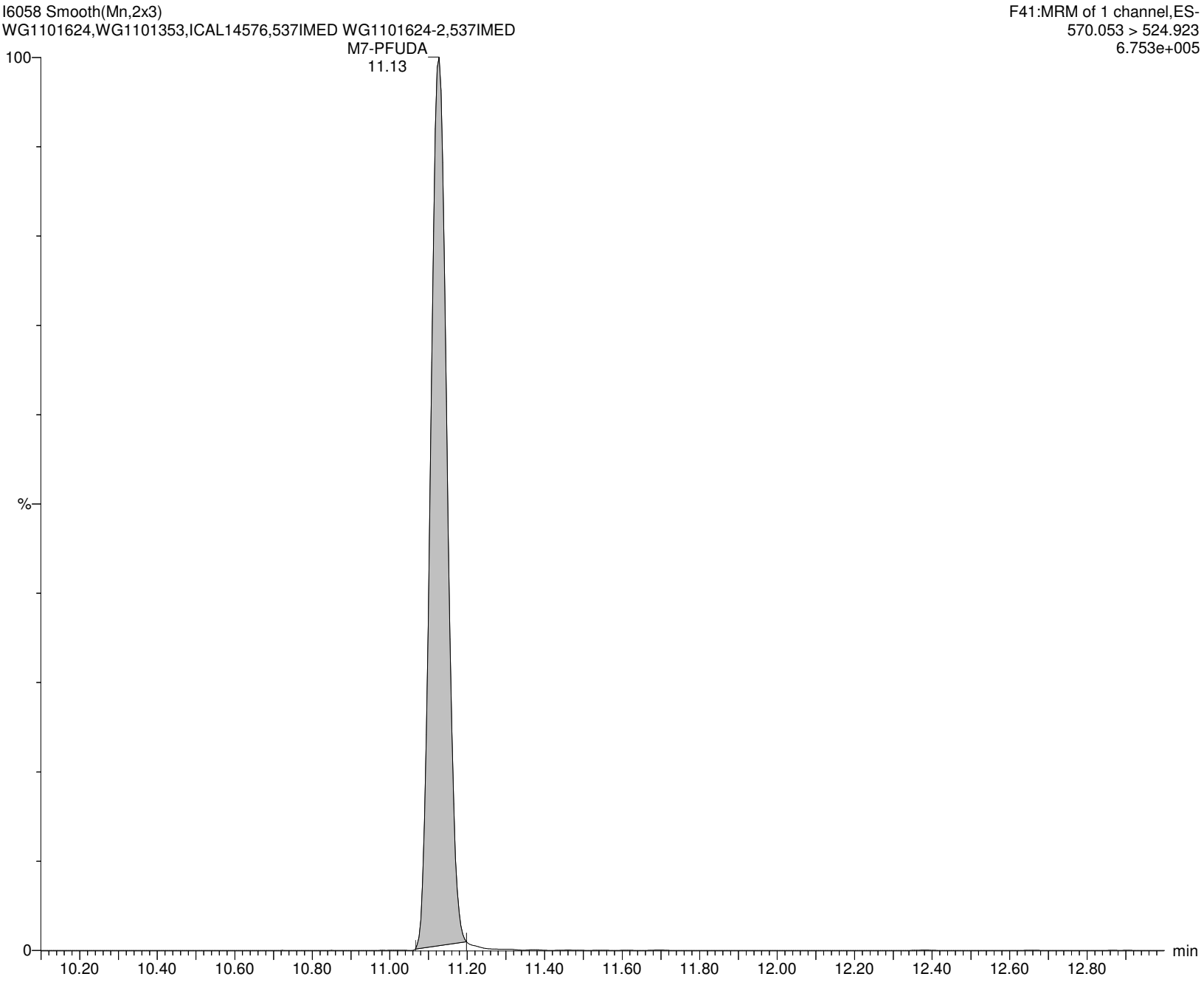
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
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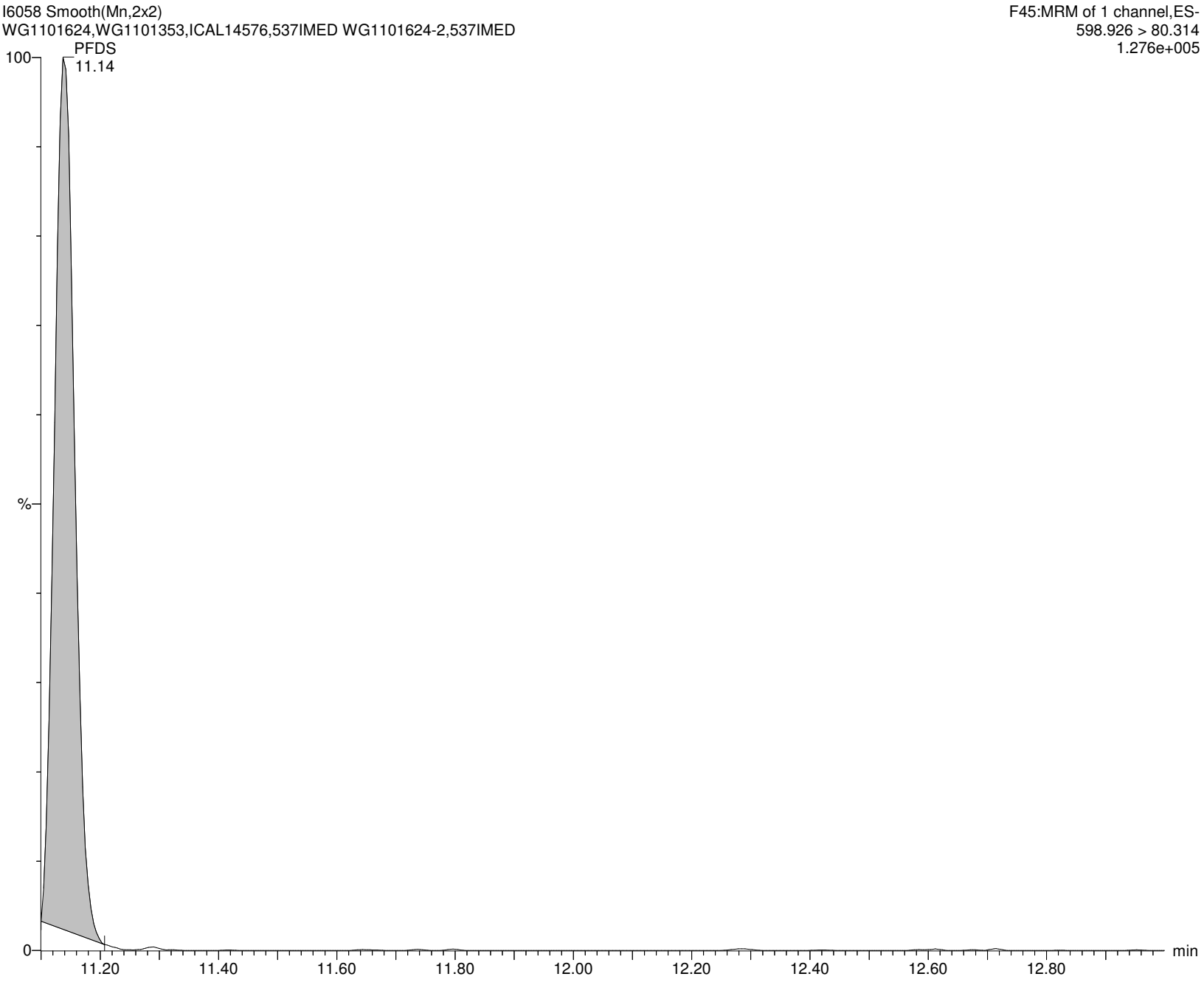

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
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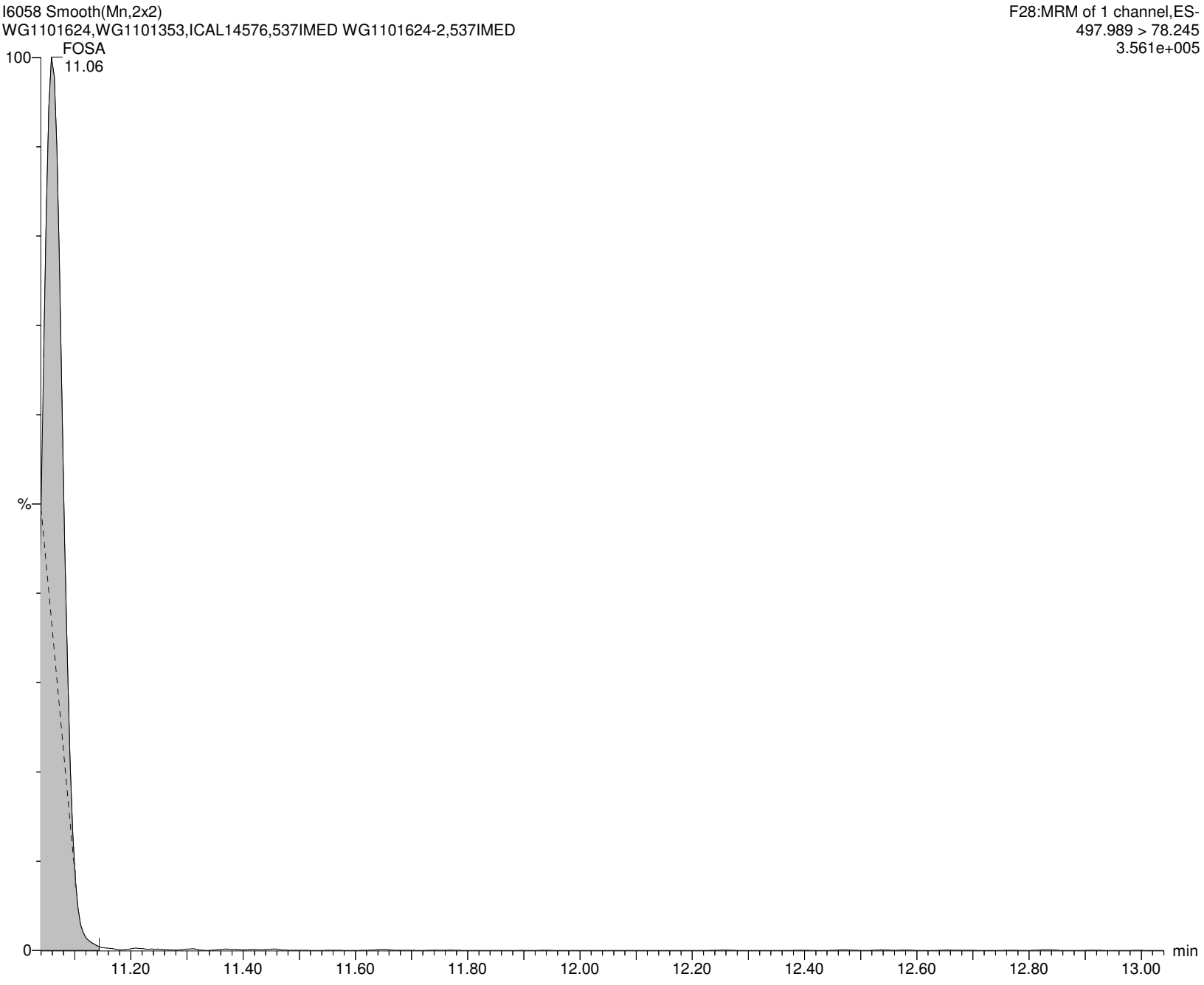
FOSA



all concentration units in (ng/mL)

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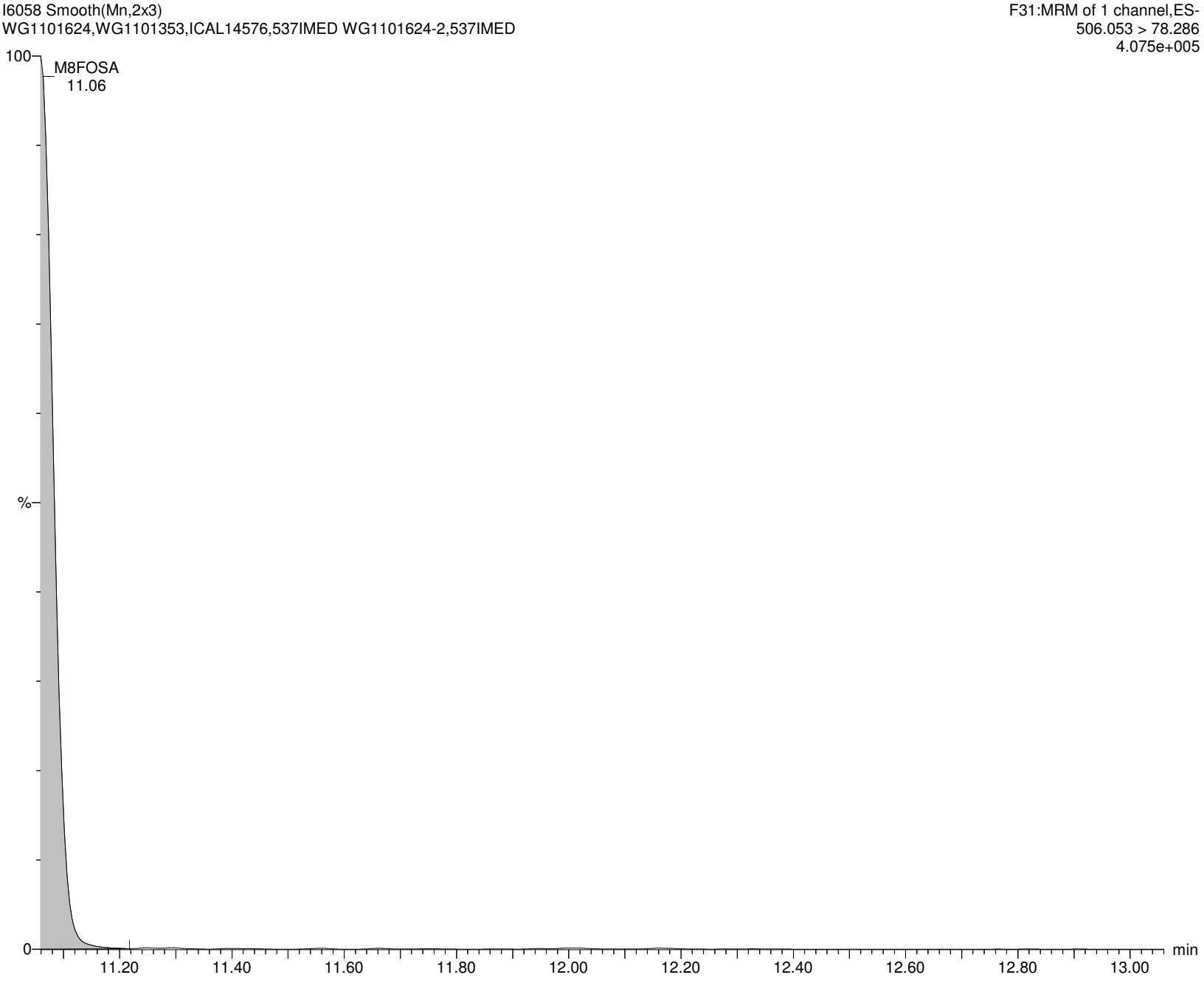
M8FOSA



all concentration units in (ng/mL)

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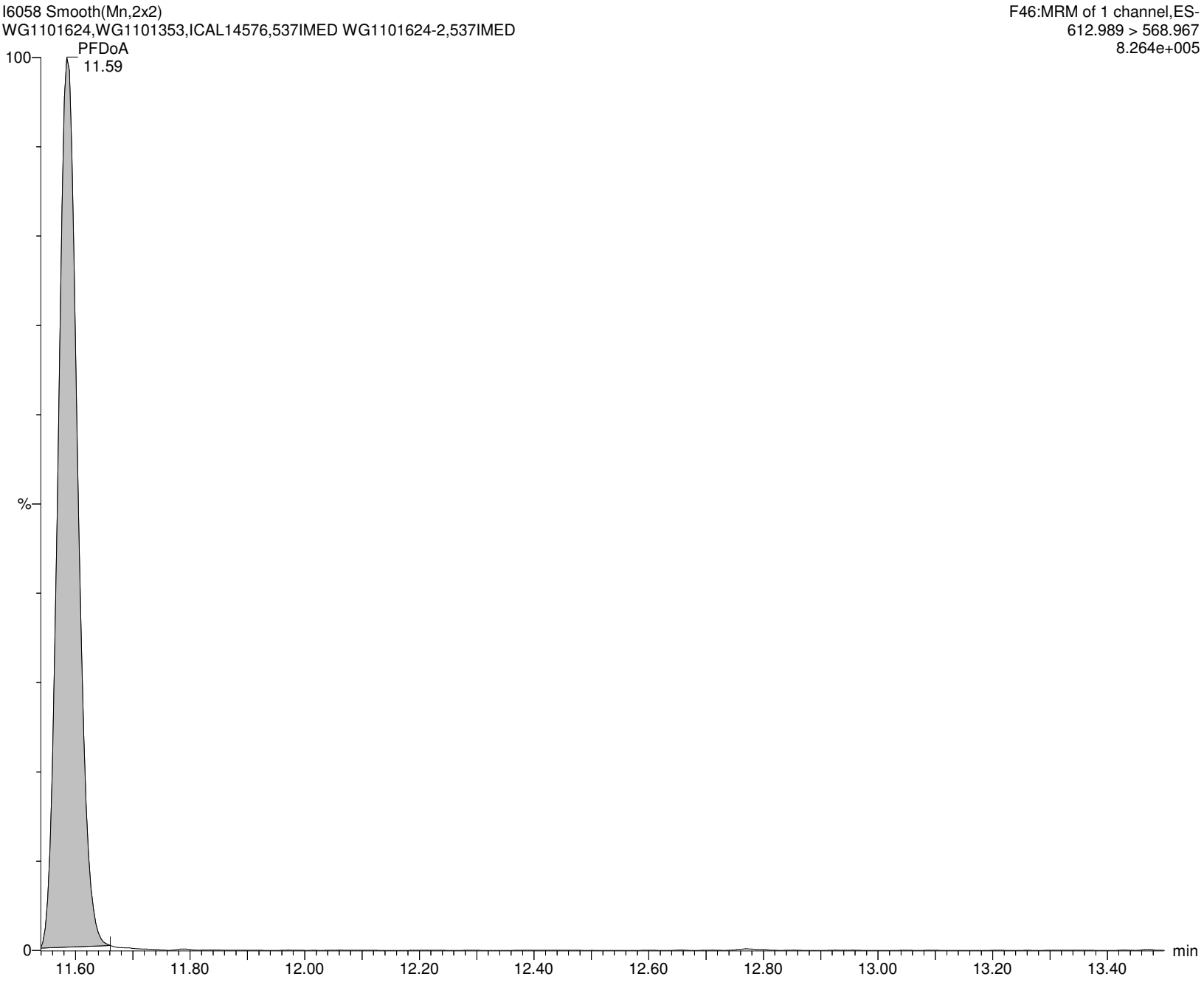

all concentration units in (ng/mL)

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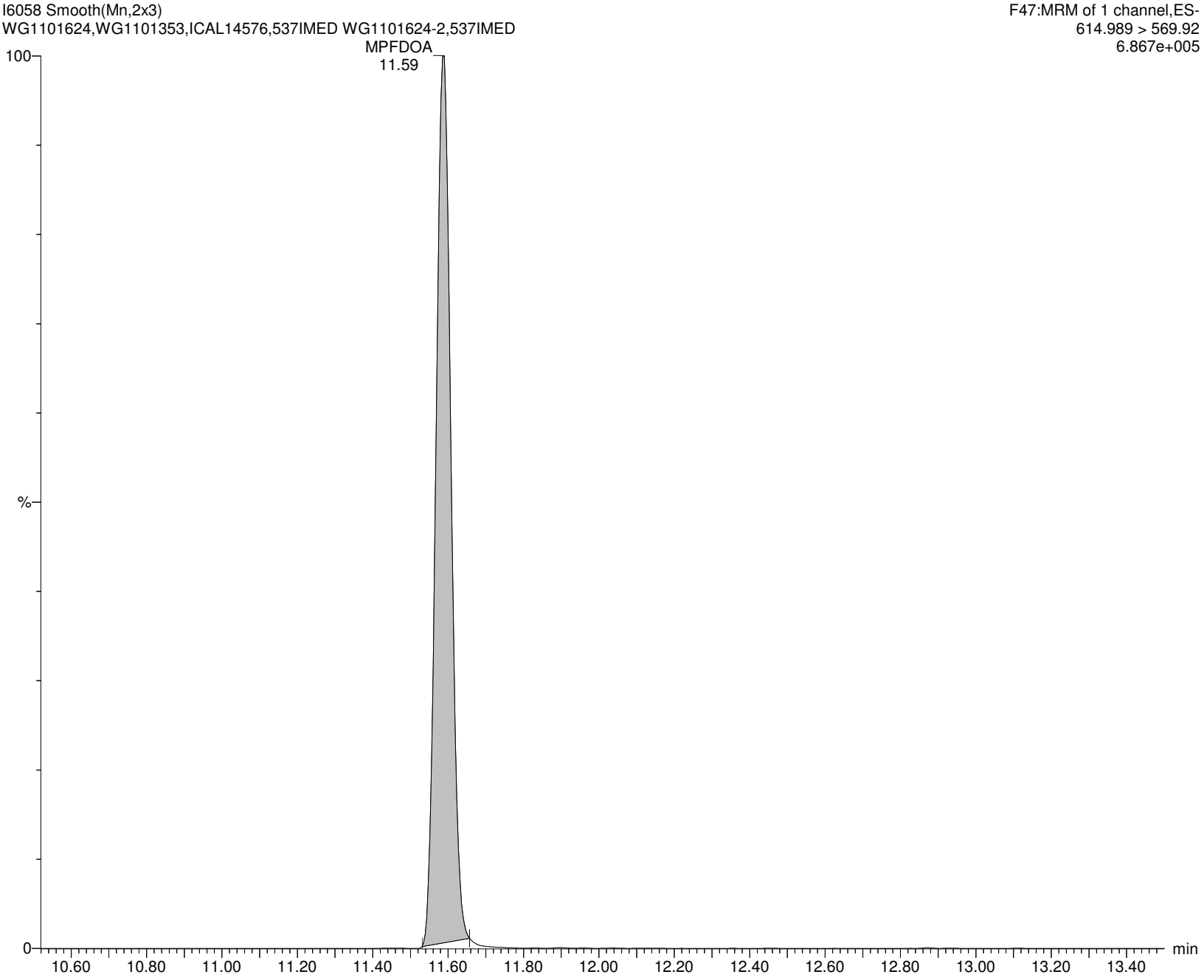

all concentration units in (ng/mL)

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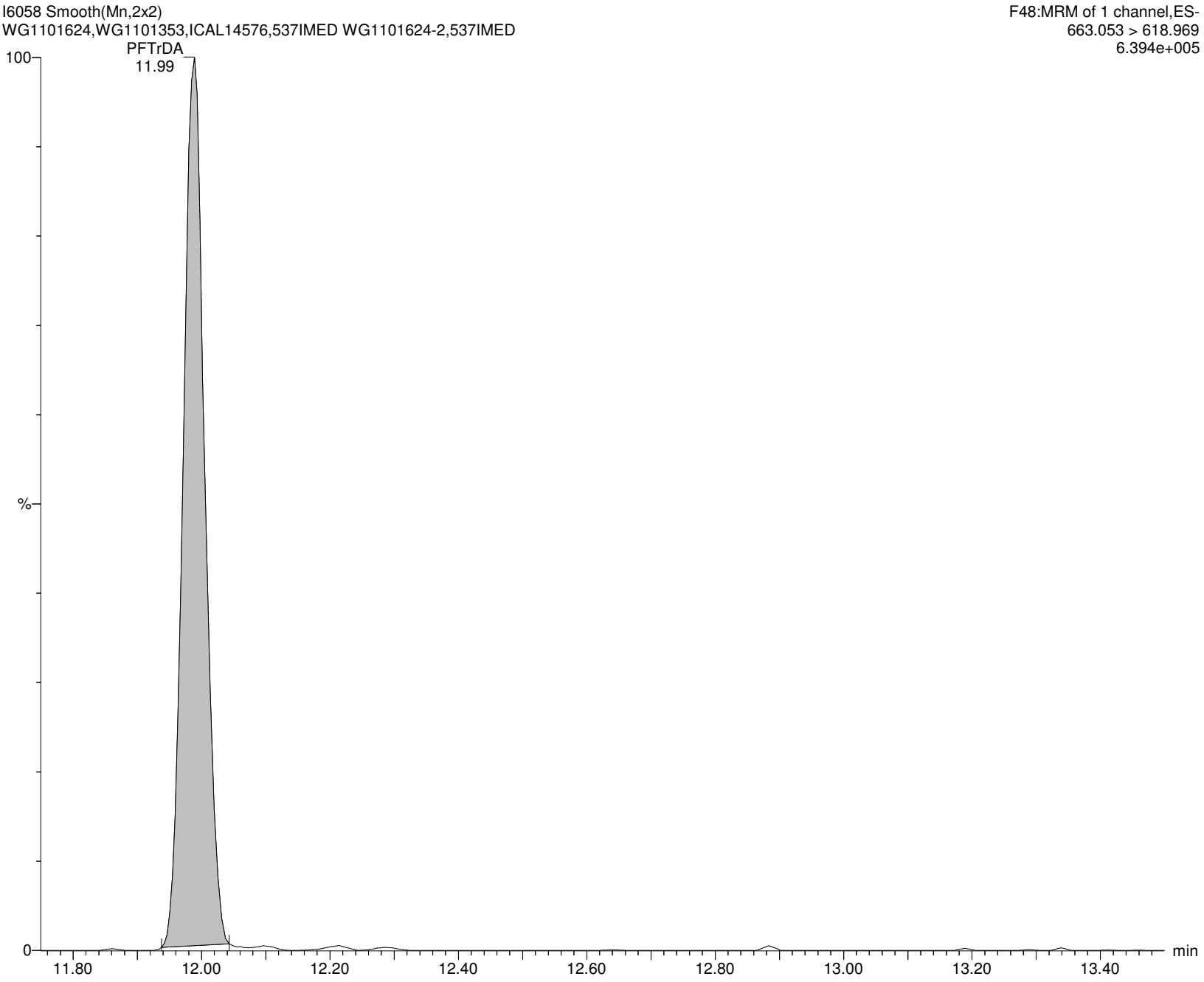
PFTrDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101624.qld
Last Altered: Thursday, March 29, 2018 15:09:54 Eastern Daylight Time
Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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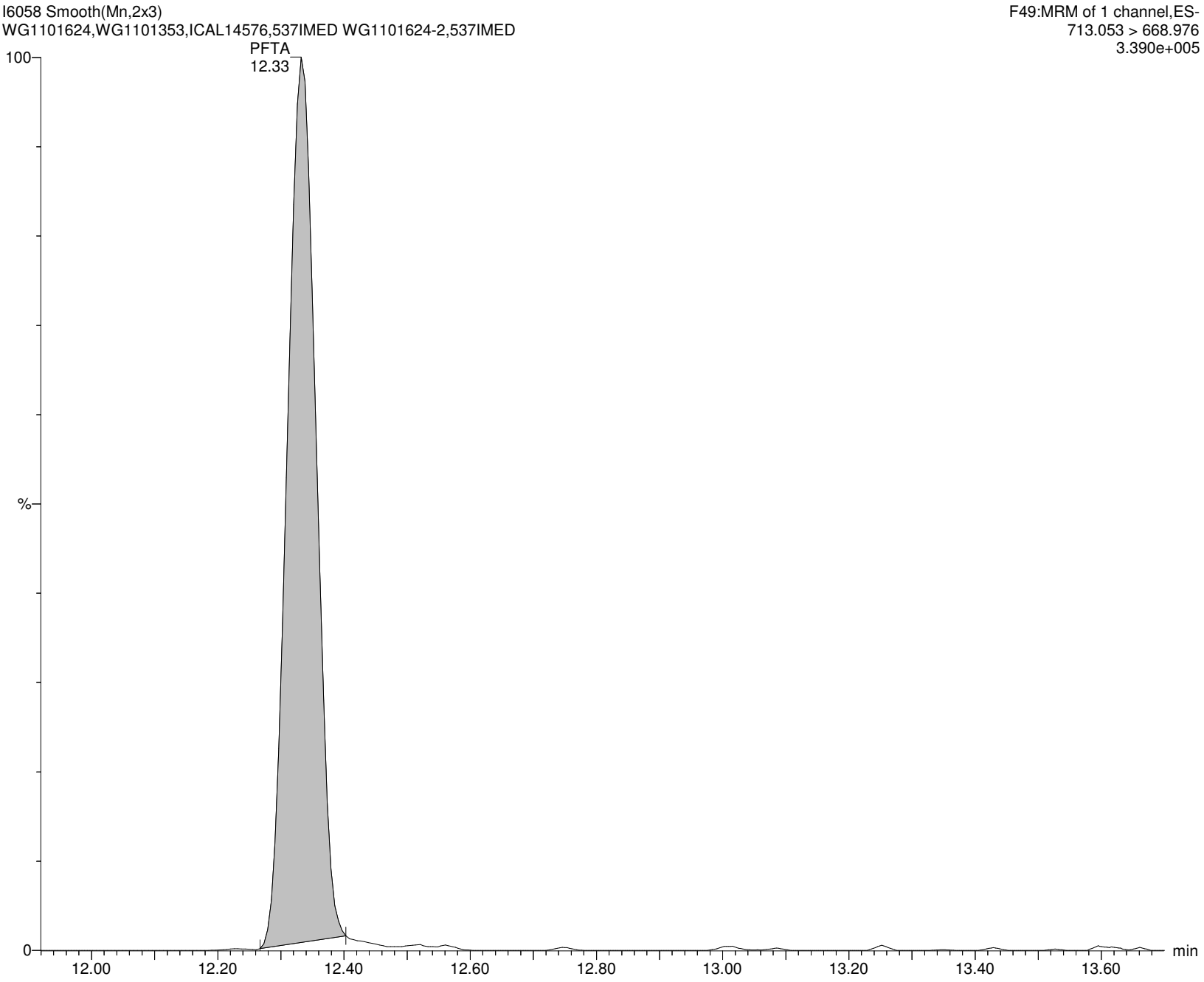

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 29, 2018 15:10:54 Eastern Daylight Time

Name: I6058
ID: WG1101624-2,537IMED
Date: 29-Mar-2018
Time: 14:27:26
Description: WG1101624,WG1101353,ICAL14576,537IMED
User: LCMS01:AJ
Vial: 2:E,2
Instrument: XEVO-TQSmicro#QEA0276
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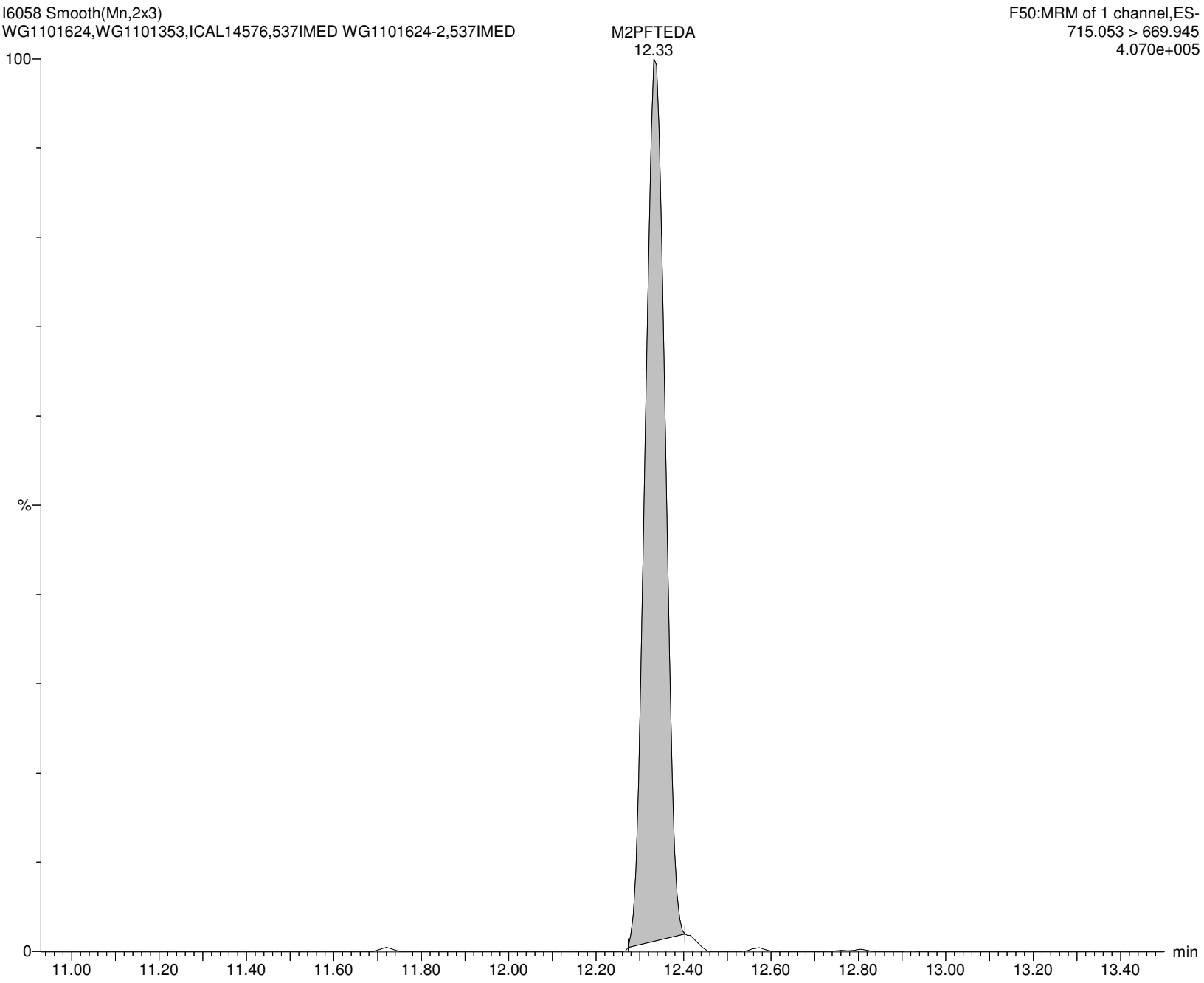

all concentration units in (ng/mL)

Sample Raw Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: L1808174-01
Name: I6066
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	1395		0.977		na	
2	M3PFBA	INT STD	2.23	215.926 > 172.122	42869		8.590		na	85.9
3	MPFBA	INT STD	2.23	216.926 > 172.137	19395		4.048		na	40.5
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	3112		1.938		na	
5	M5PFPEA	INT STD	5.13	TIC	20428		4.137		na	41.4
6	PFBS	375-73-5	5.80	298.989 > 80.295	672		1.519		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	4499		3.890		na	38.9
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.96	328.989 > 80.973	216		1.451		na	14.5
10	PFHxA	307-24-4	7.04	312.989 > 269.028	9319		4.544		na	
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	22685		3.238		na	32.4
12	PFPeS	2706-91-4	7.37	348.926 > 80.251	196		0.448		na	
13	PFHpA	375-85-9	8.31	362.926 > 319.014	610		0.238		na	
14	M4PFHpA	INT STD	8.31	366.926 > 321.979	27945		3.512		na	35.1
15	br-PFHxS	355-46-4	8.24	398.926 > 80.295	95		0.218		na	
16	L-PFHxS	355-46-4	8.47	398.926 > 80.295	352		0.825		na	
17	PFHxS	355-46-4		398.926 > 80.295	447		1.043		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	4517		4.247		na	42.5
19	br-PFOA	335-67-1	9.02	412.989 > 368.9	103		0.040		na	
20	L-PFOA	335-67-1	9.24	412.989 > 368.9	824		0.316		na	
21	M2PFOA	INT STD	9.24	415.032 > 369.968	72782		11.761		na	117.6
22	PFOA	335-67-1		412.989 > 368.9	927		0.356		na	
23	M8PFOA	INT STD	9.24	420.989 > 375.979	25141		3.557		na	35.6
24	6:2FTS	27619-97-2	9.20	426.989 > 406.921	403		6.523		na	
25	M2-6:2FTS	INT STD	9.20	428.989 > 408.917	638		1.133		na	11.3
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1	9.98	462.989 > 418.931	733		0.397		na	
28	M9PFNA	INT STD	9.98	472.053 > 426.947	22165		3.337		na	33.4
29	br-PFOS	1763-23-1	9.85	498.989 > 80.294	168		0.353		na	
30	L-PFOS	1763-23-1	10.03	498.989 > 80.294	337		1.000		na	
31	PFOS	1763-23-1		498.989 > 80.294	505		1.353		na	
32	M4PFOS	INT STD	10.03	503.032 > 80.306	7045		11.619		na	116.2
33	M8PFOS	INT STD	10.03	507.053 > 80.294	3440		3.999		na	40.0
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.60	515.053 > 469.934	44996		10.732		na	107.3
36	M6PFDA	INT STD	10.60	519.053 > 473.931	21441		3.946		na	39.5
37	8:2FTS	39108-34-4	10.59	526.989 > 506.946	38		1.003		na	
38	M2-8:2FTS	INT STD	10.59	529.117 > 80.953	111		1.273		na	12.7
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

ID: L1808174-01
Name: I6066
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	668		0.961		na	9.6
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.12	570.053 > 524.923	16597		3.733		na	37.3
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.06	506.053 > 78.286	8874		3.702		na	37.0
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	675		1.026		na	10.3
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1	11.59	612.989 > 568.967	131		0.091		na	
50	MPFDOA	INT STD	11.59	614.989 > 569.92	14663		3.188		na	31.9
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	7538		2.084		na	20.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
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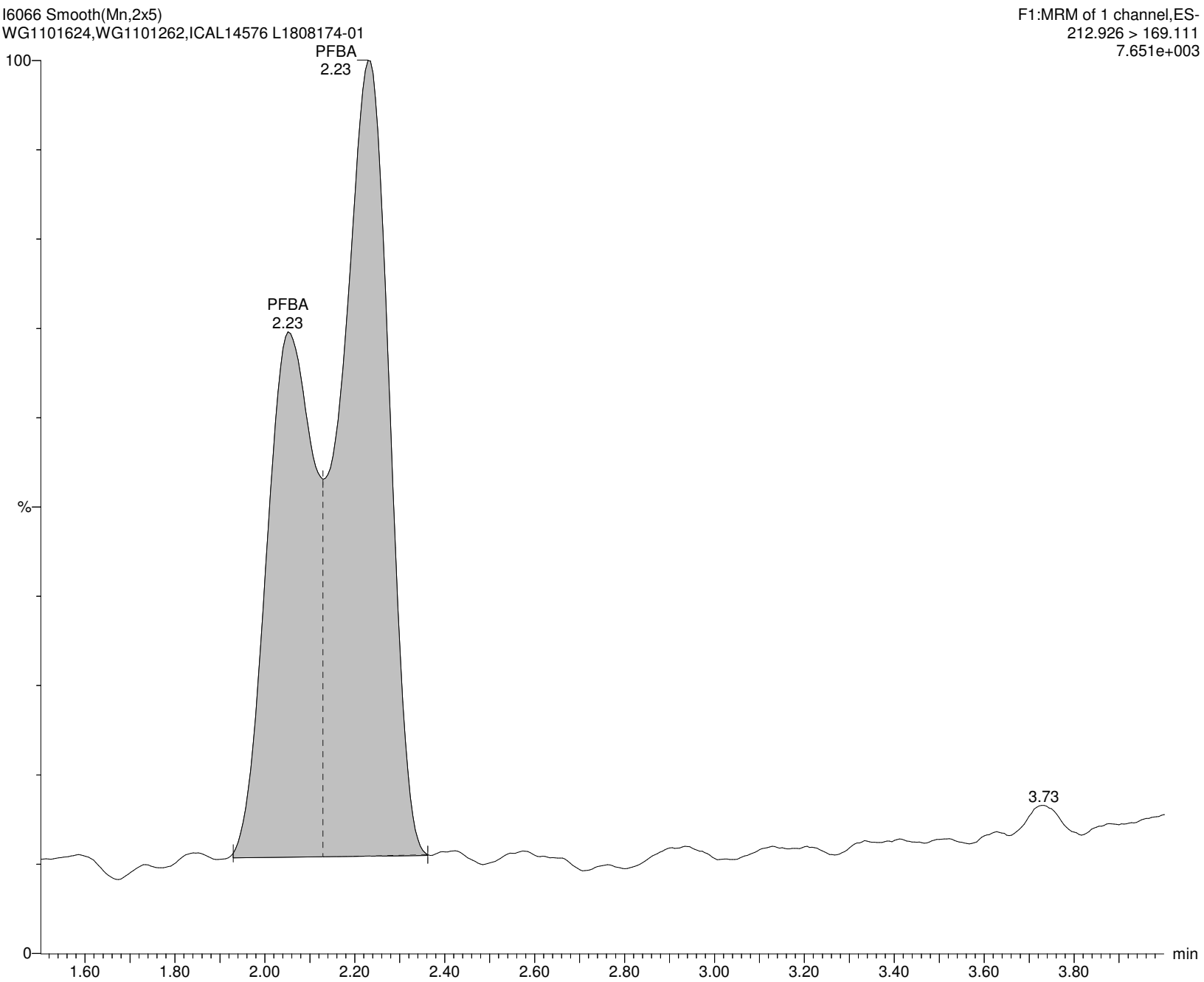

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Name: I6066
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Date: 29-Mar-2018
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Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
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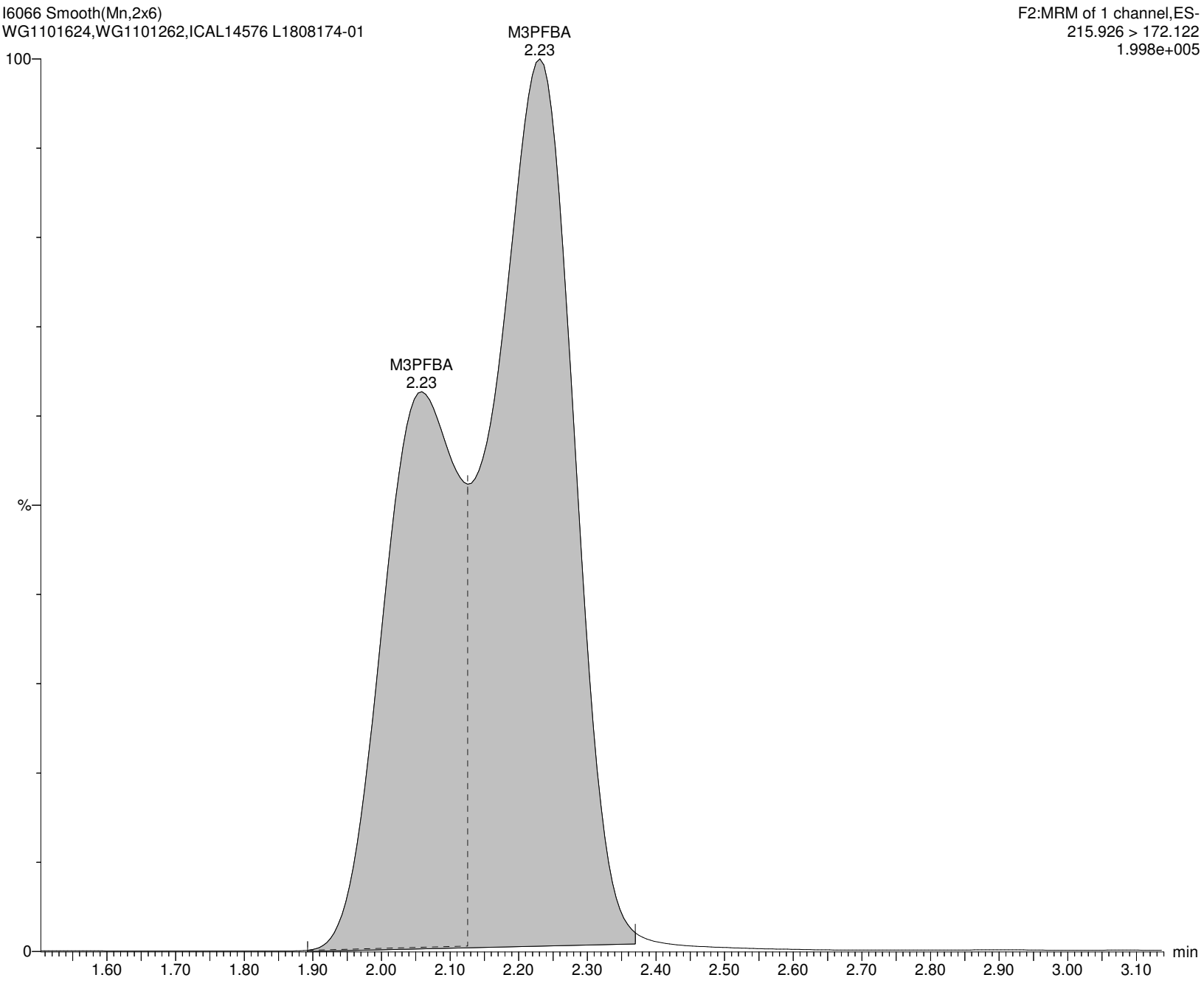

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
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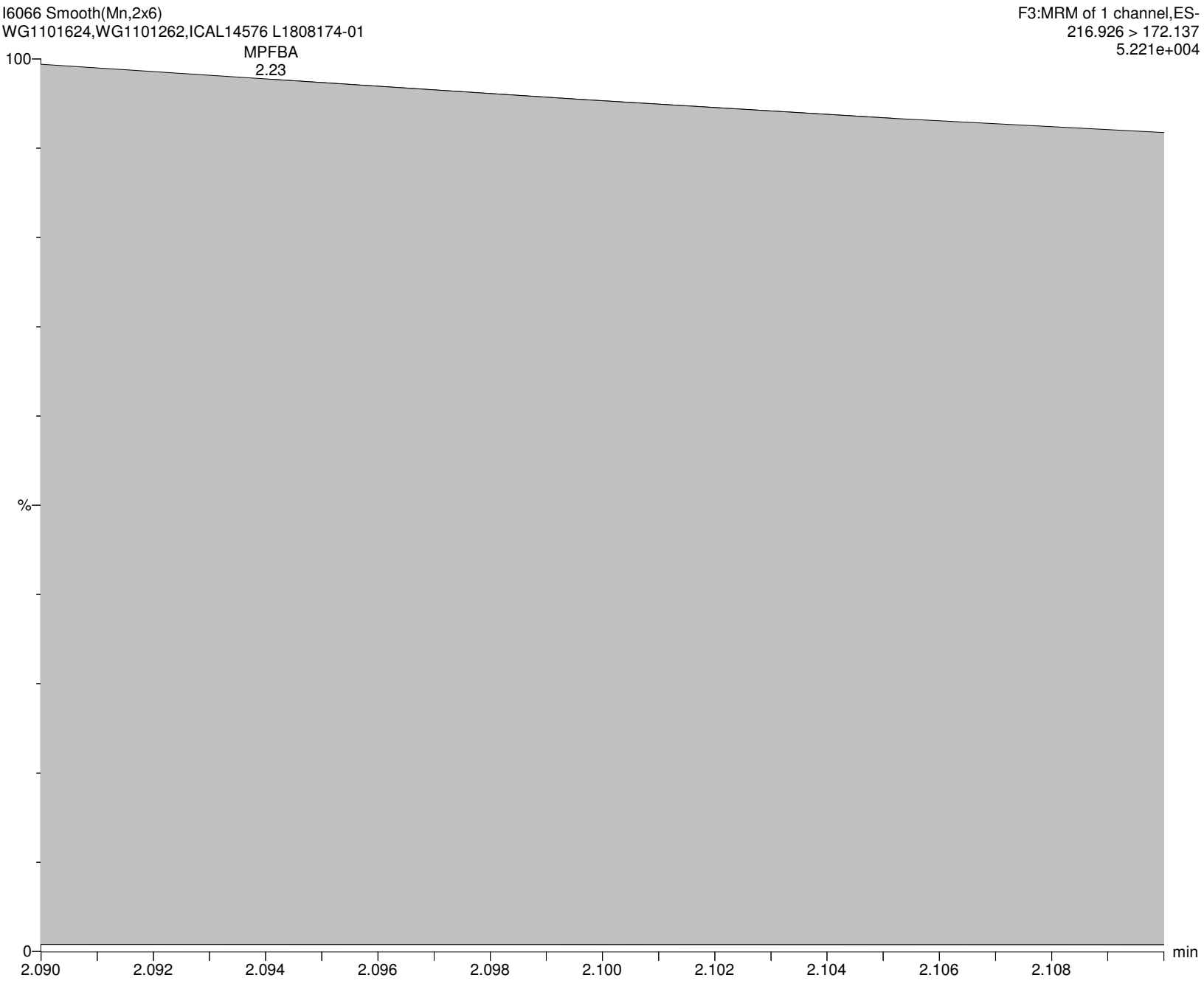

all concentration units in (ng/mL)

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Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
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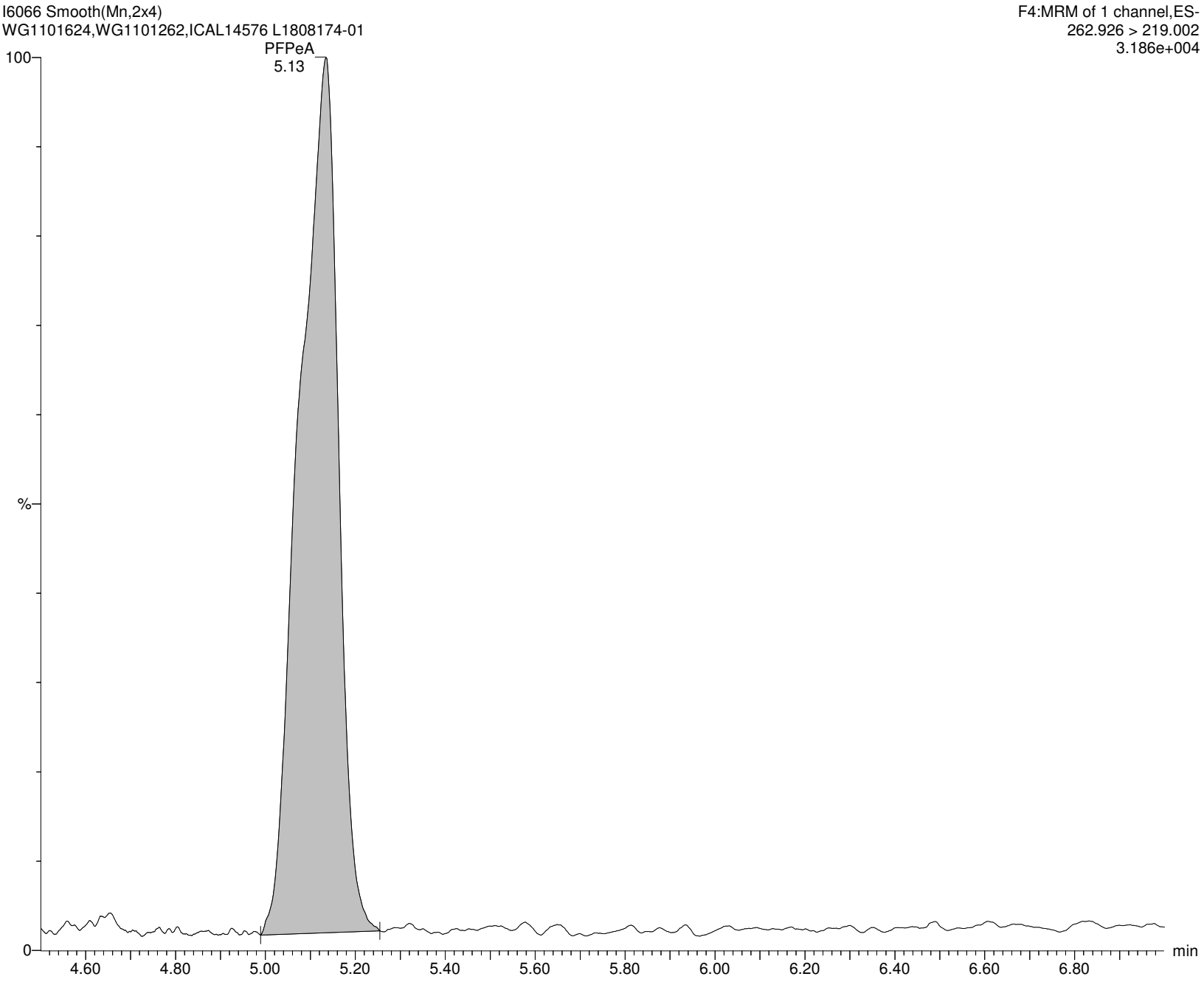

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 2:C,1
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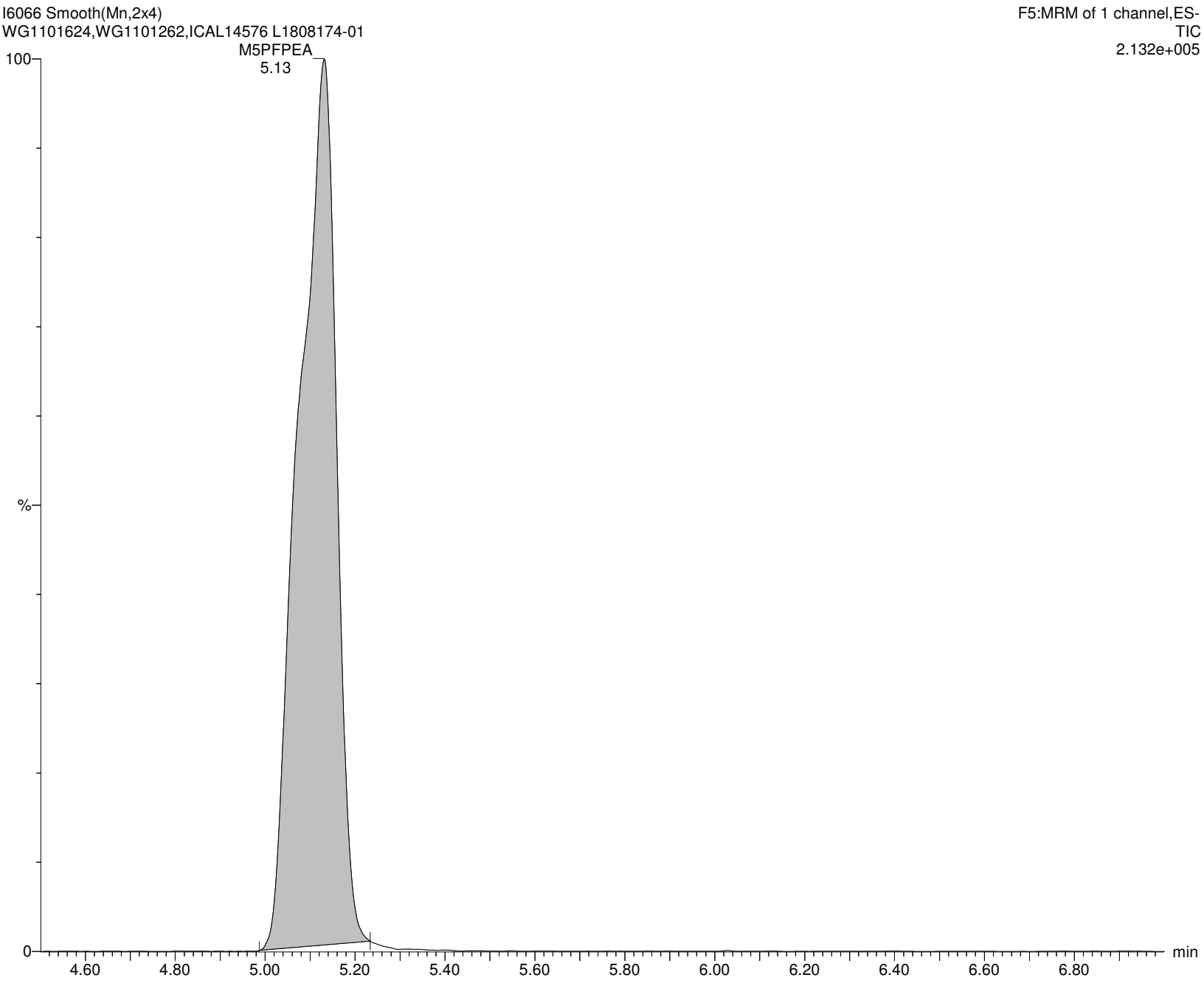

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AJ
Vial: 2:C,1
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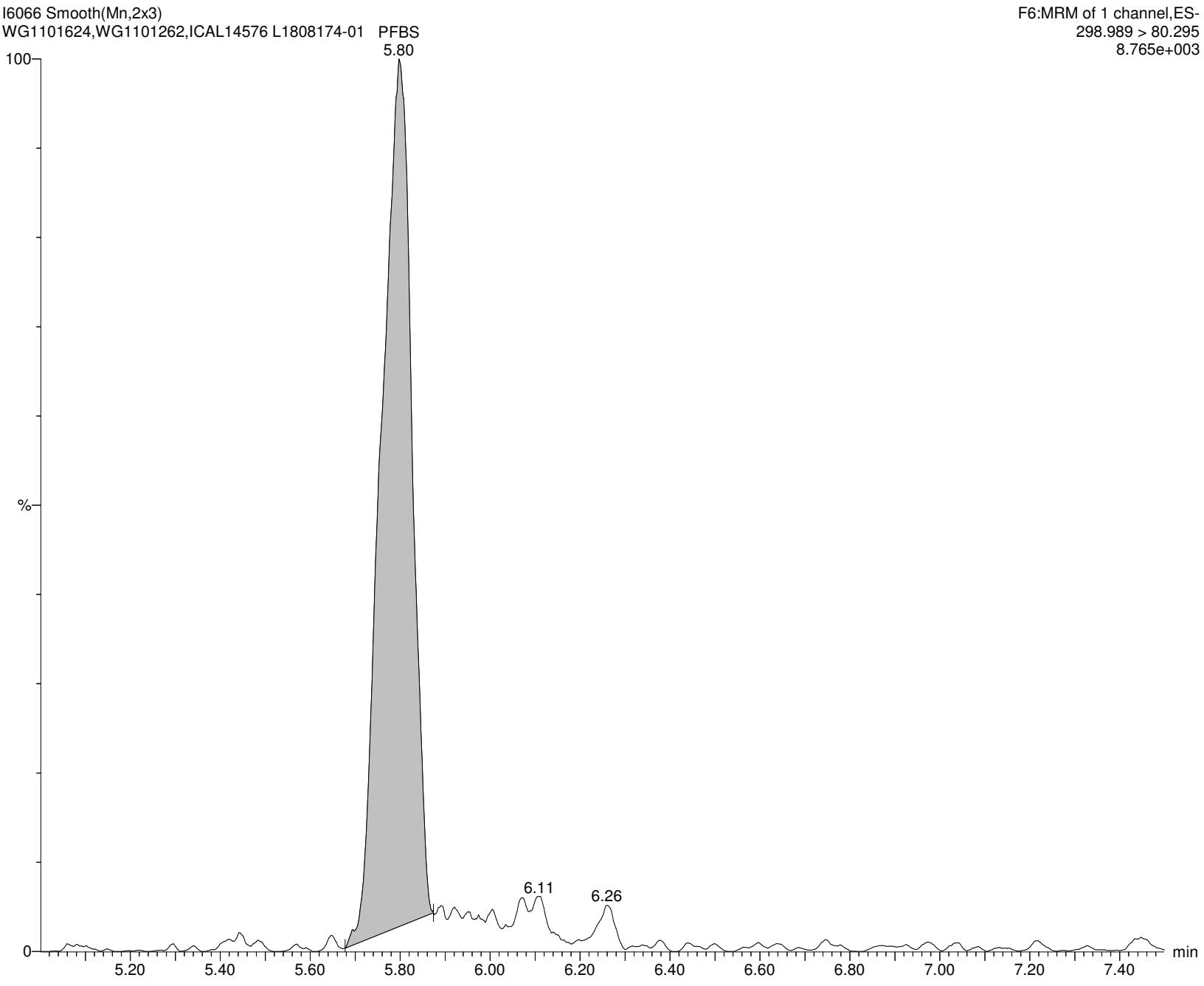

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
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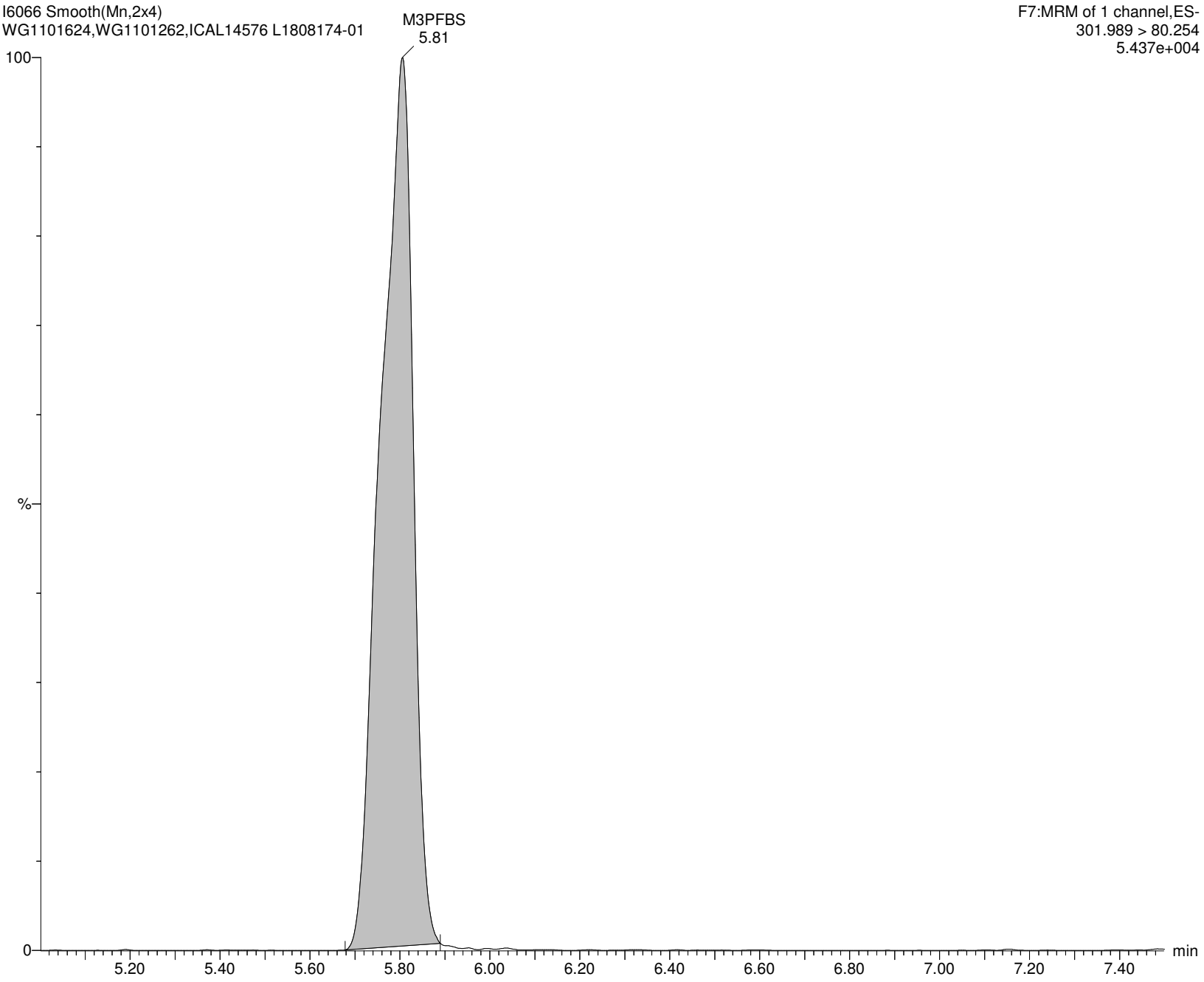

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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User: LCMS01:AJ
Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
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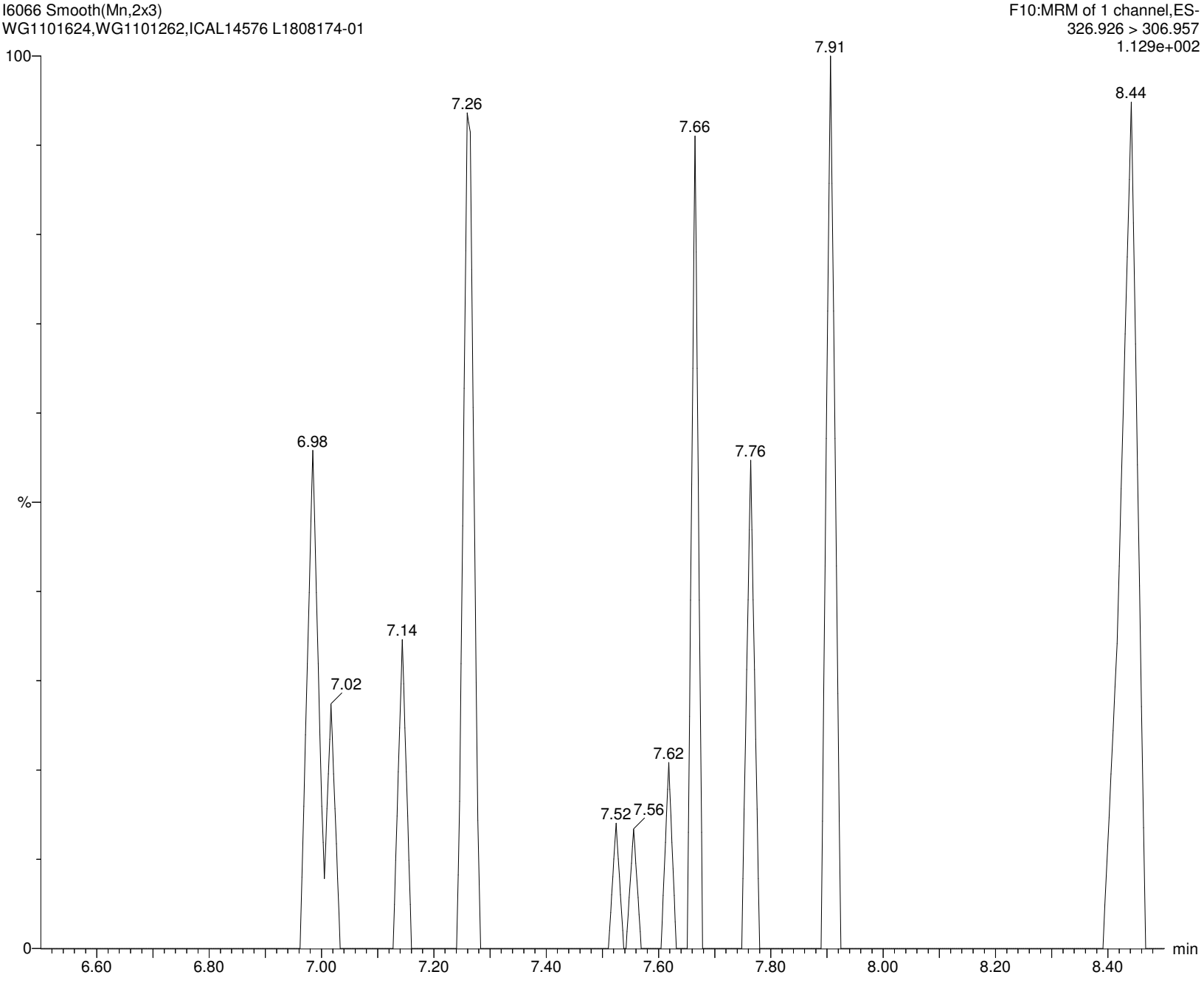
4:2FTS

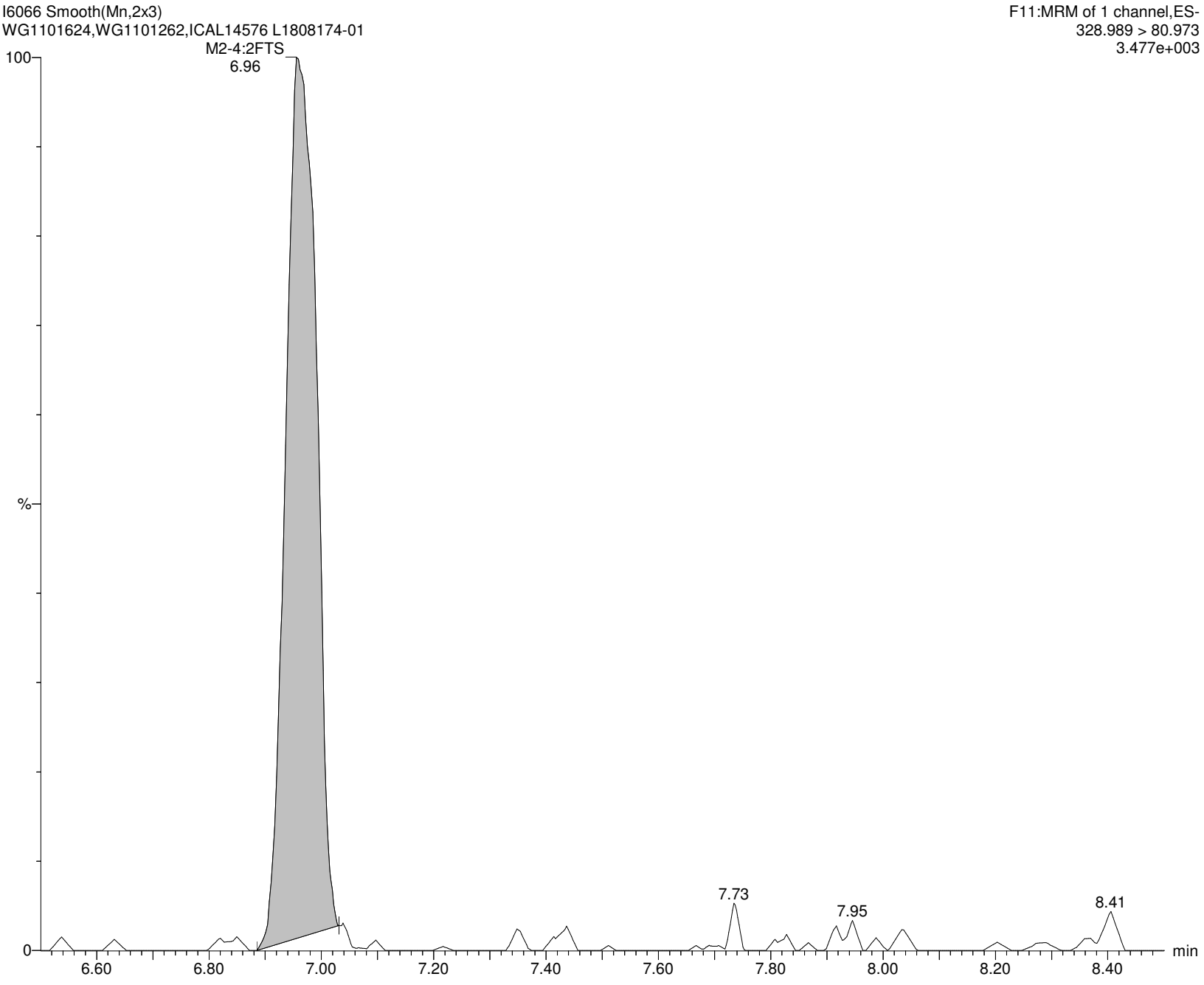


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
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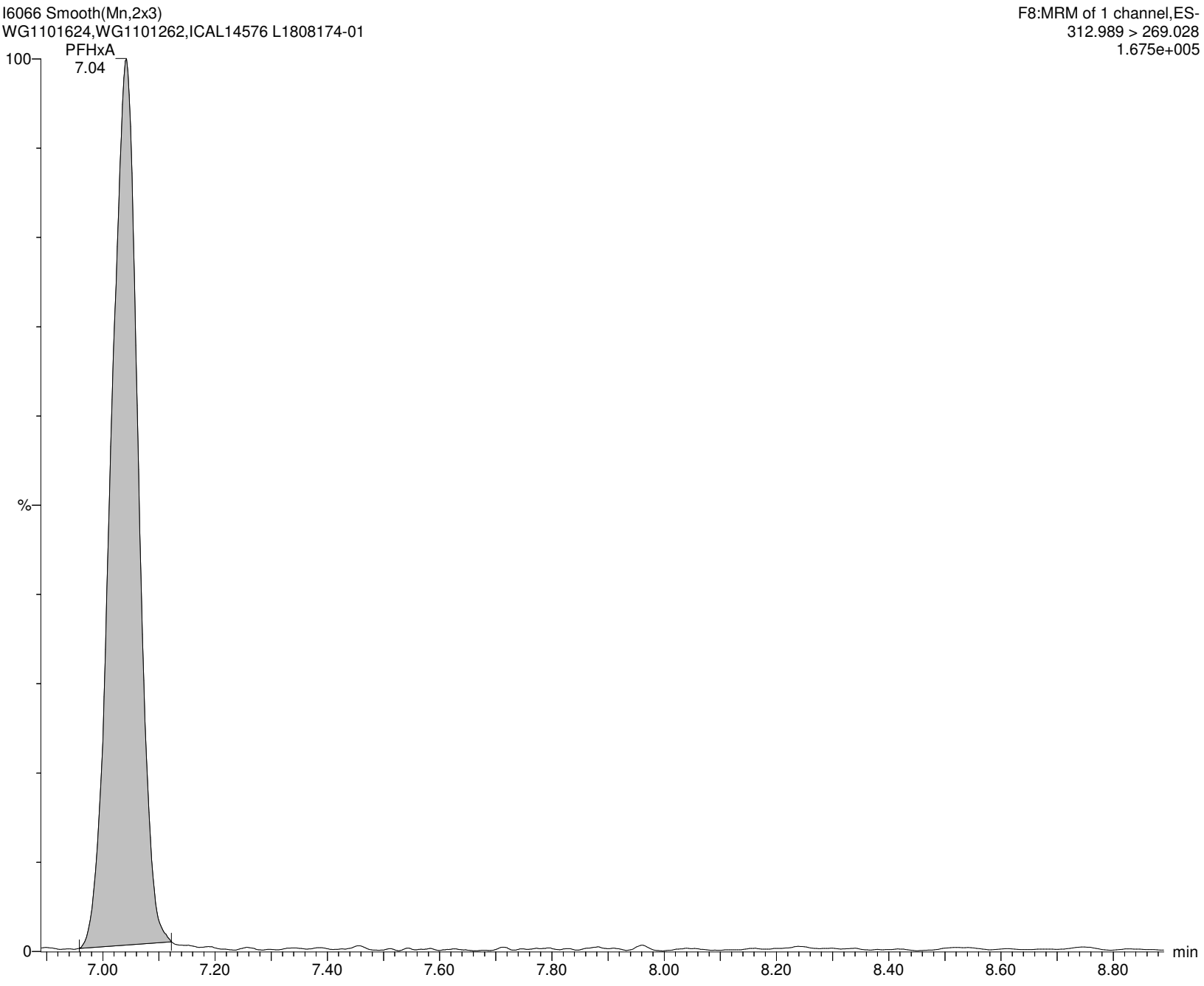
PFHxA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
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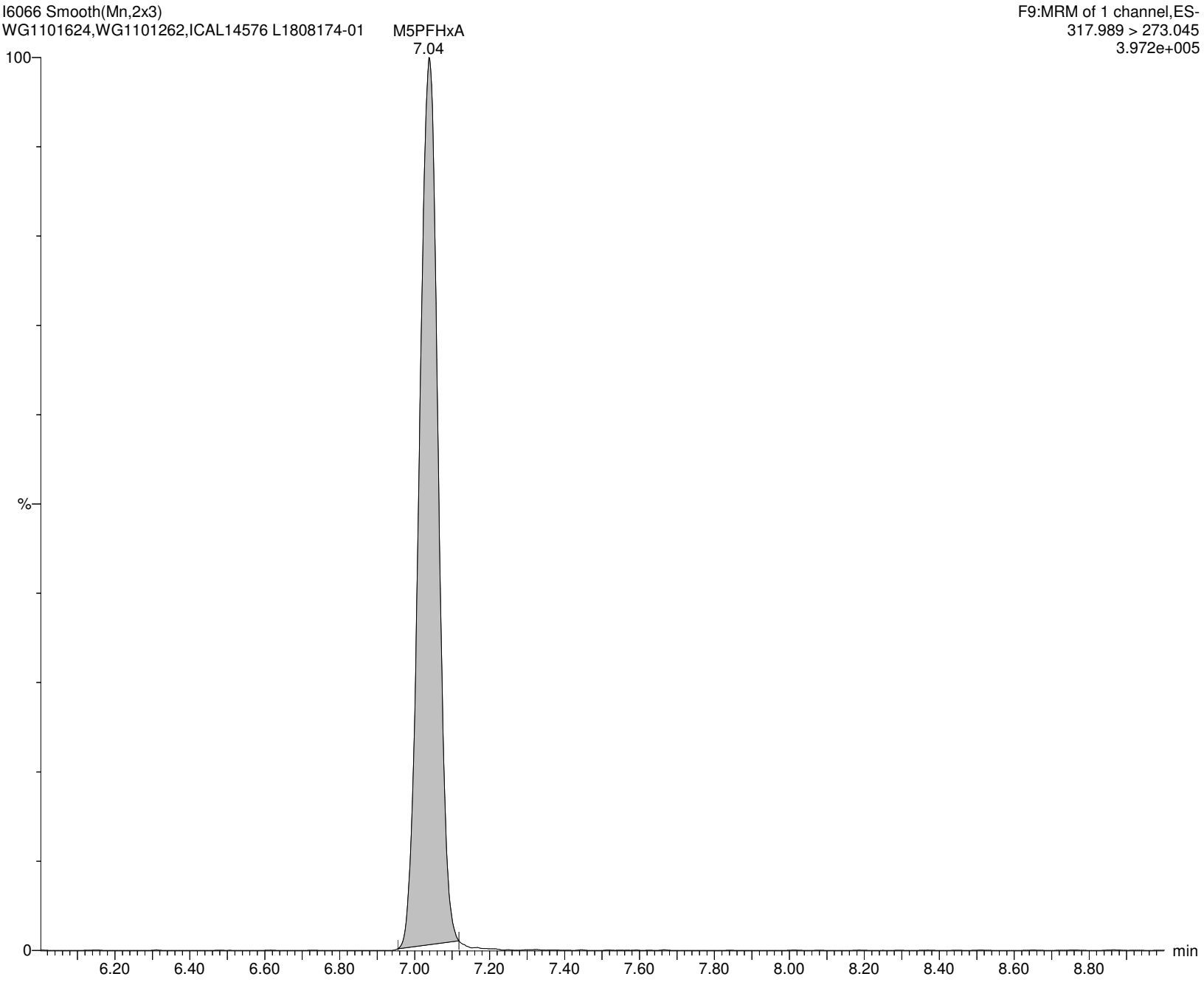

all concentration units in (ng/mL)

Alpha Analytical Inc.
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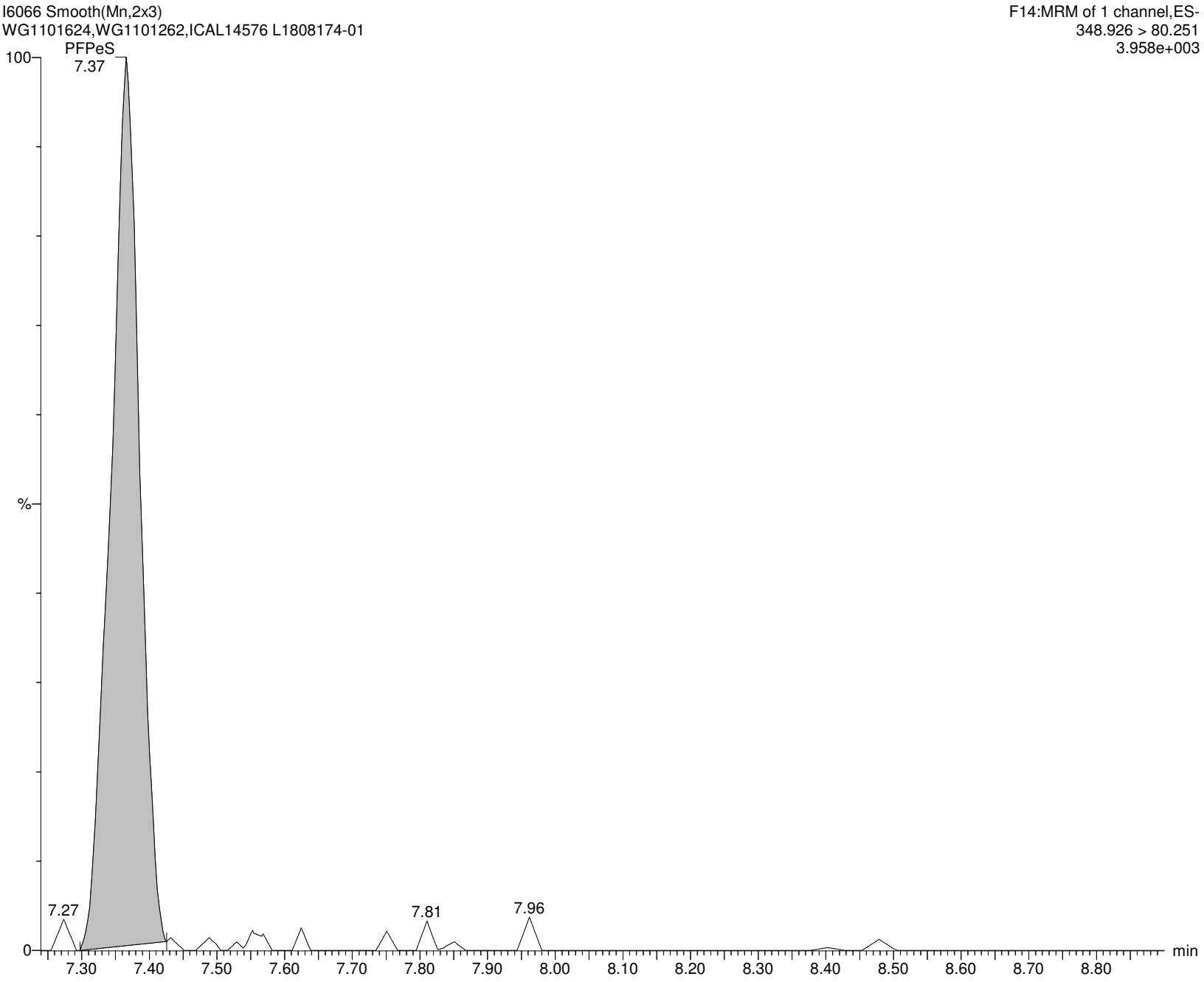

all concentration units in (ng/mL)

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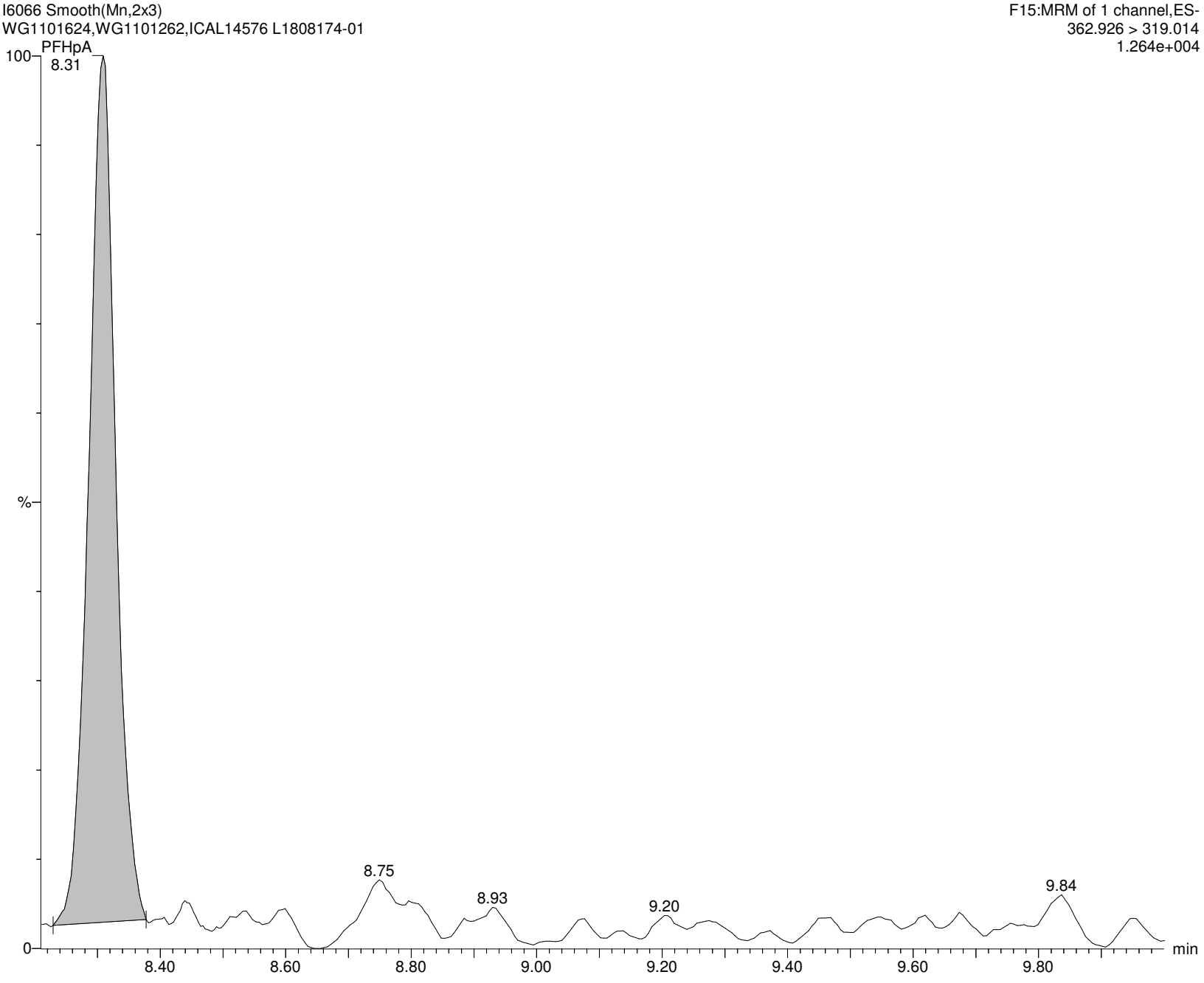

all concentration units in (ng/mL)

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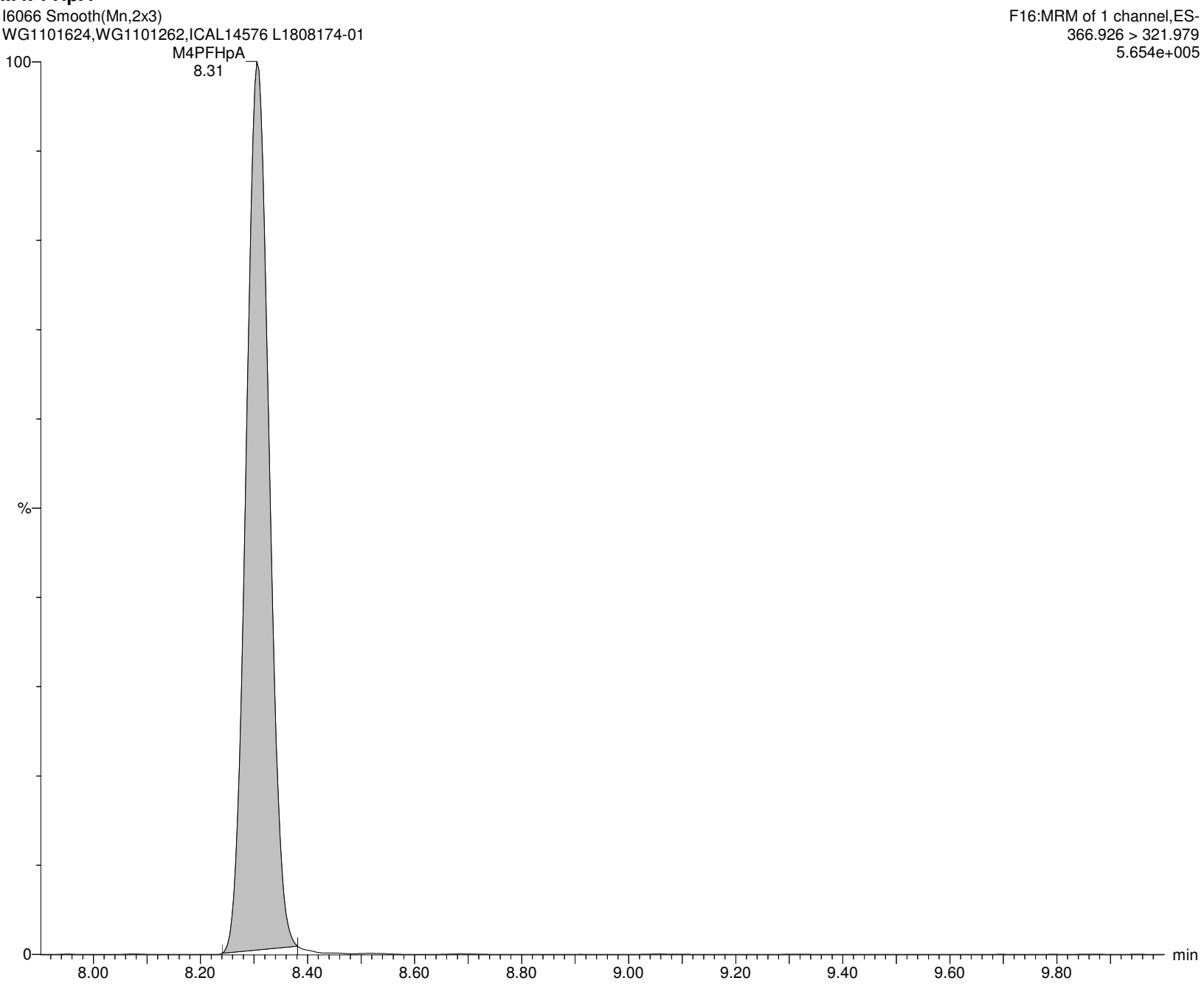

all concentration units in (ng/mL)

Alpha Analytical Inc.
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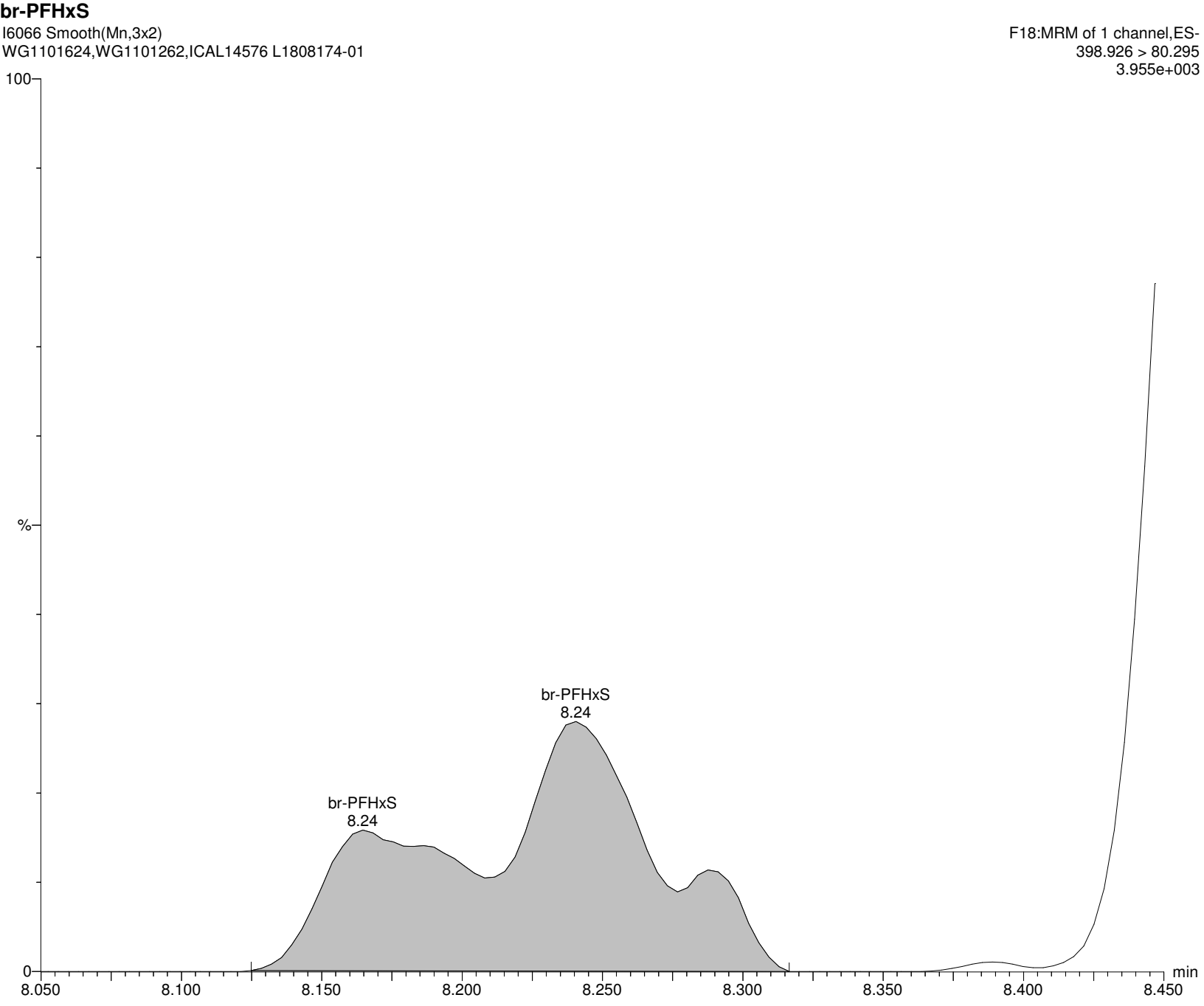

all concentration units in (ng/mL)

Alpha Analytical Inc.
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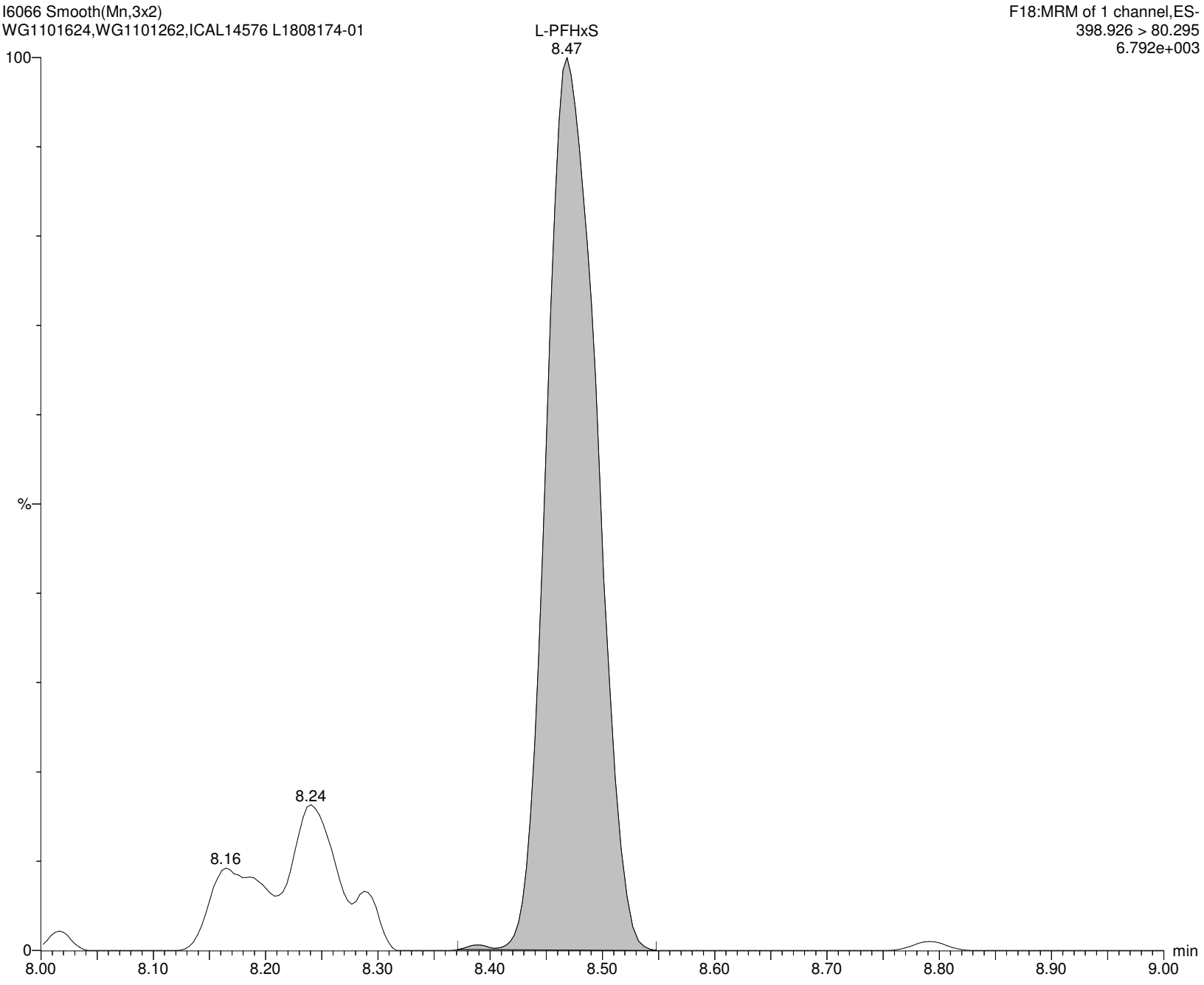

all concentration units in (ng/mL)

Alpha Analytical Inc.
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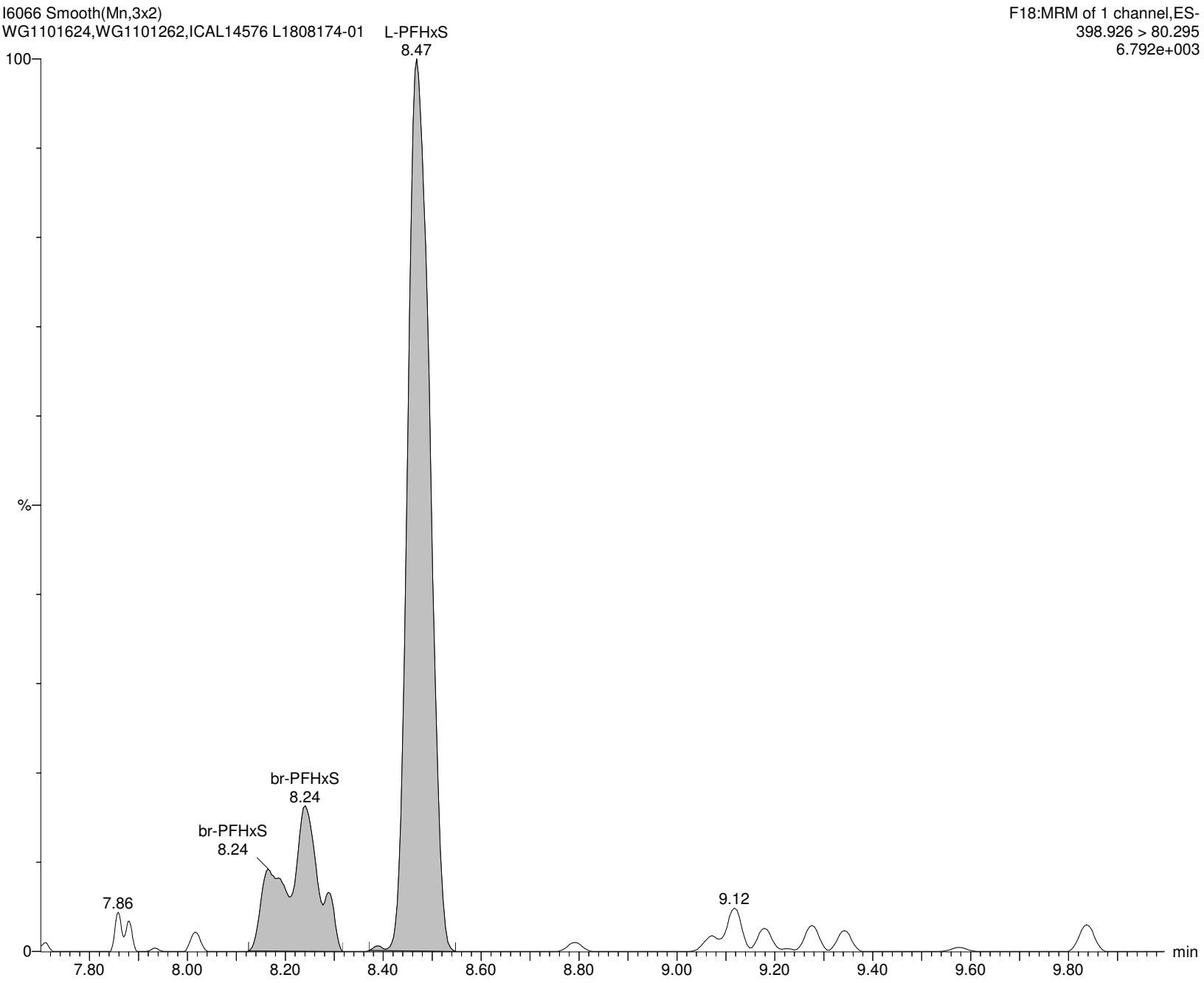

all concentration units in (ng/mL)

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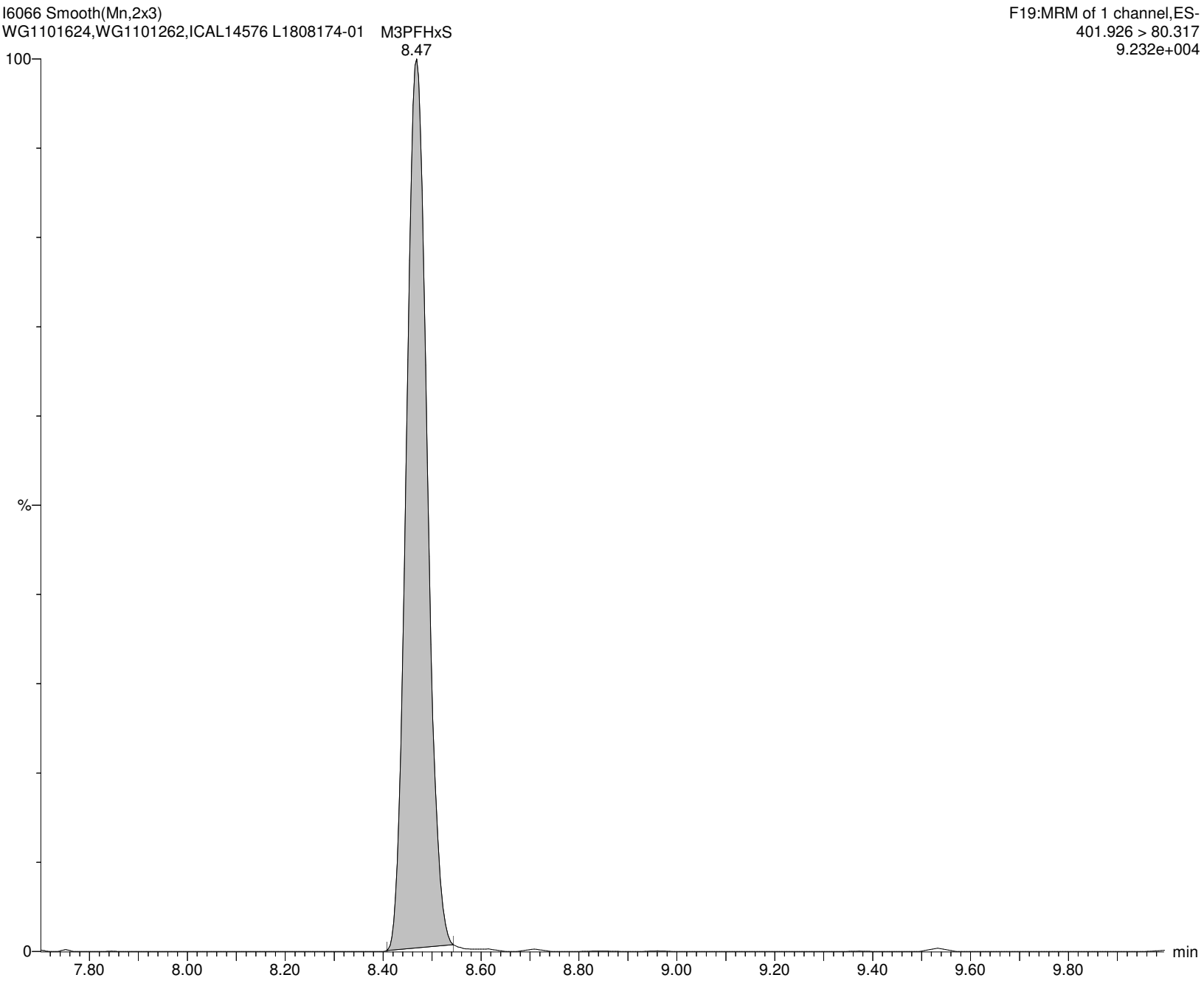

all concentration units in (ng/mL)

Alpha Analytical Inc.
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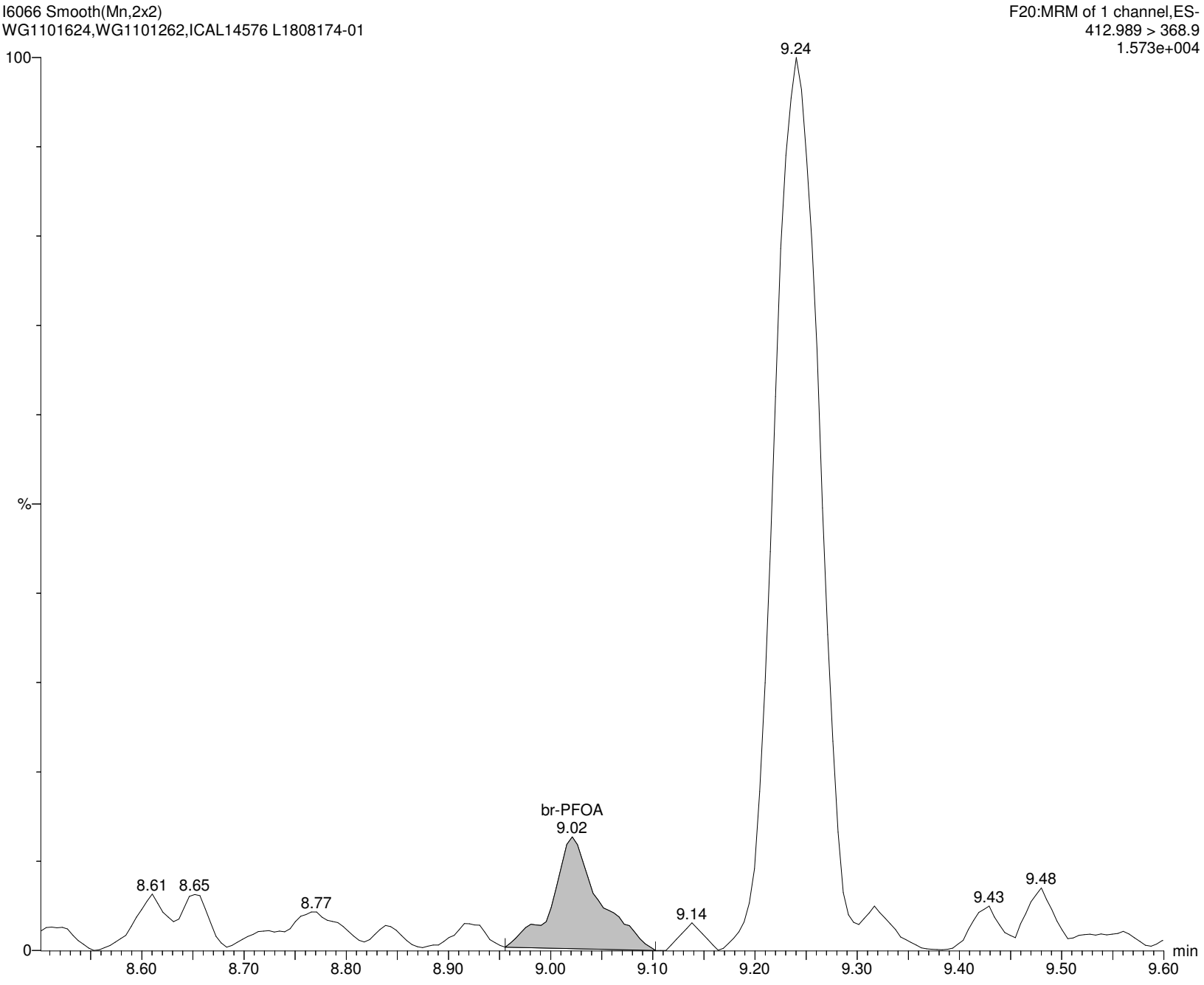

all concentration units in (ng/mL)

Alpha Analytical Inc.
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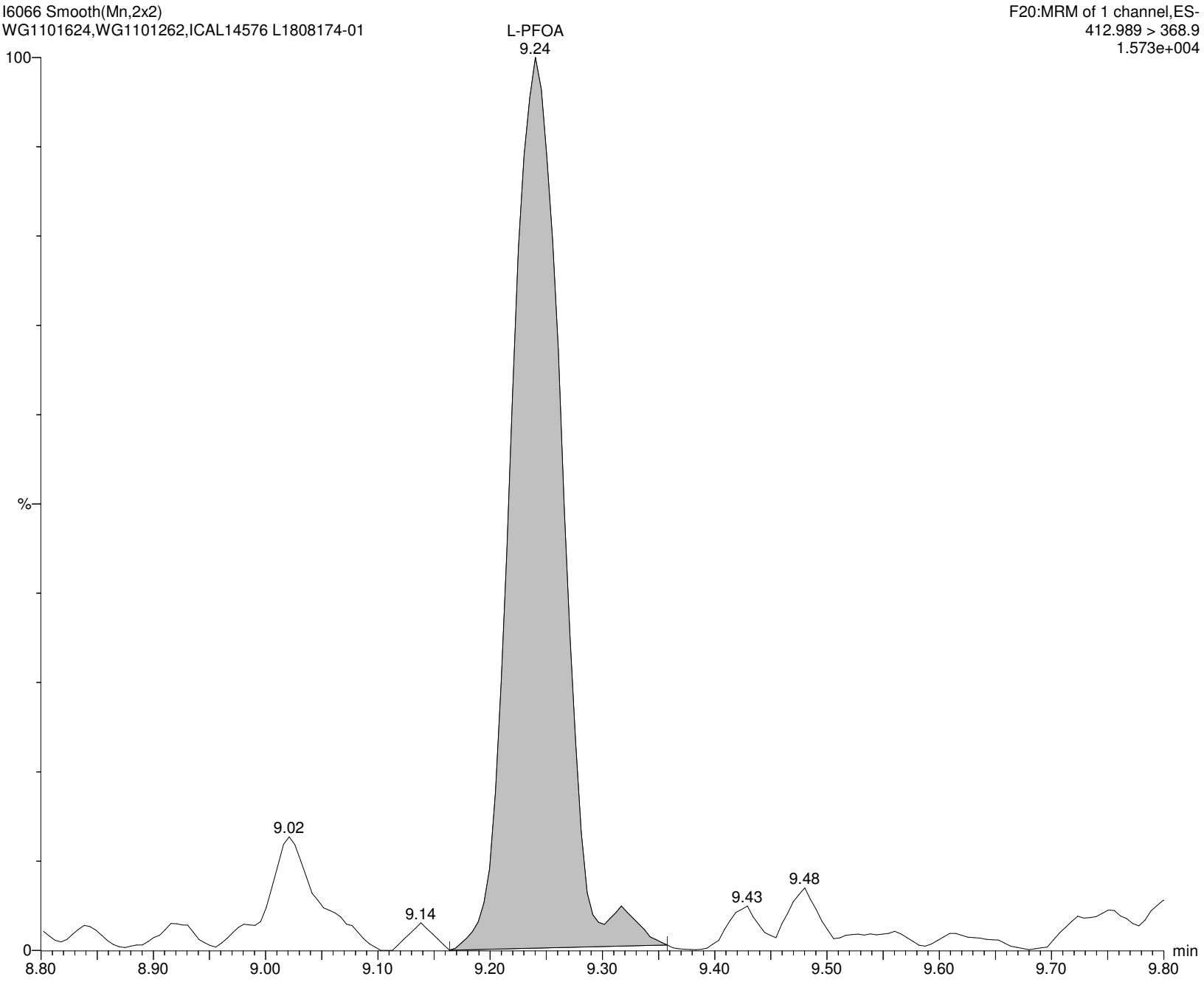

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 18:01:25
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Vial: 2:C,1
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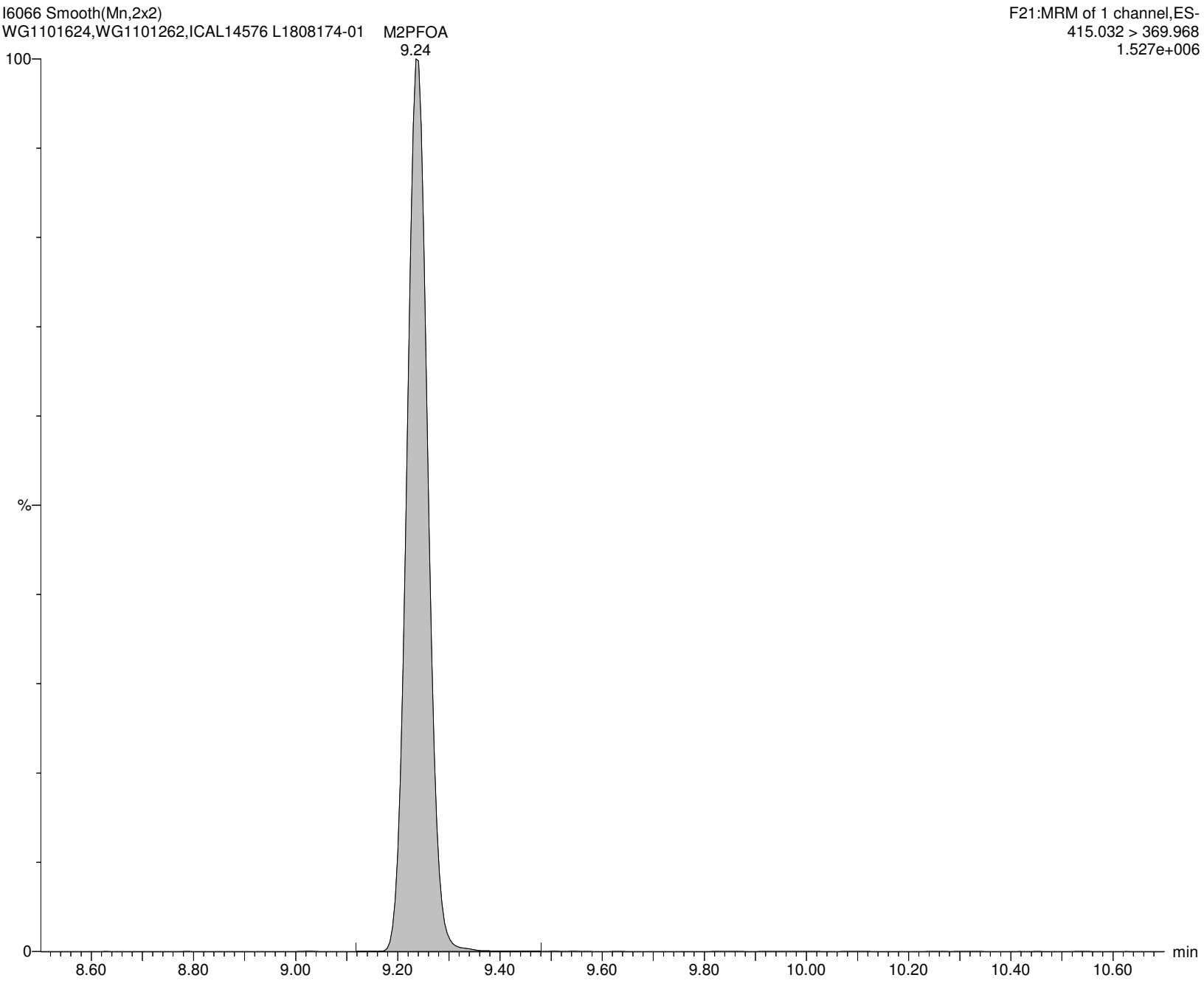

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Date: 29-Mar-2018
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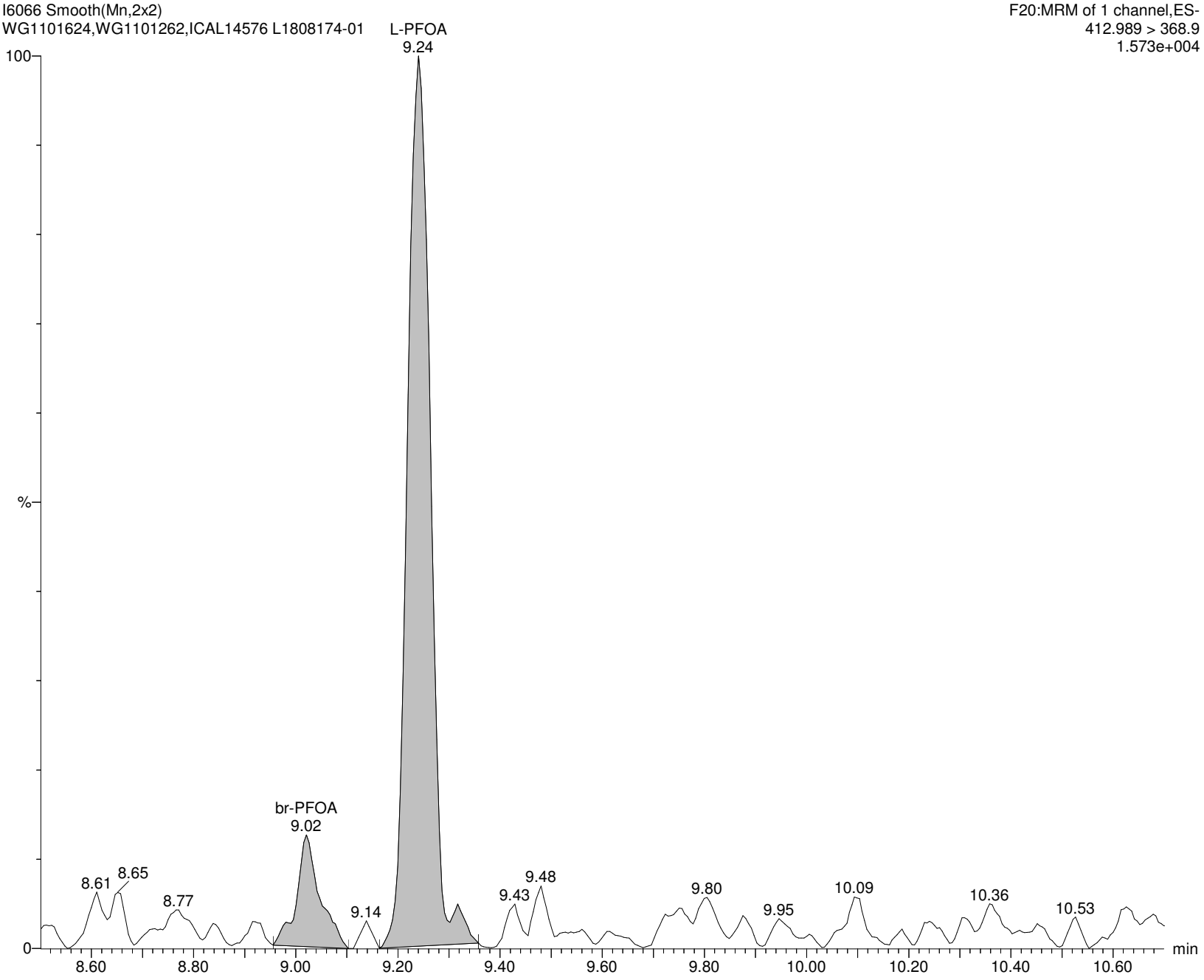

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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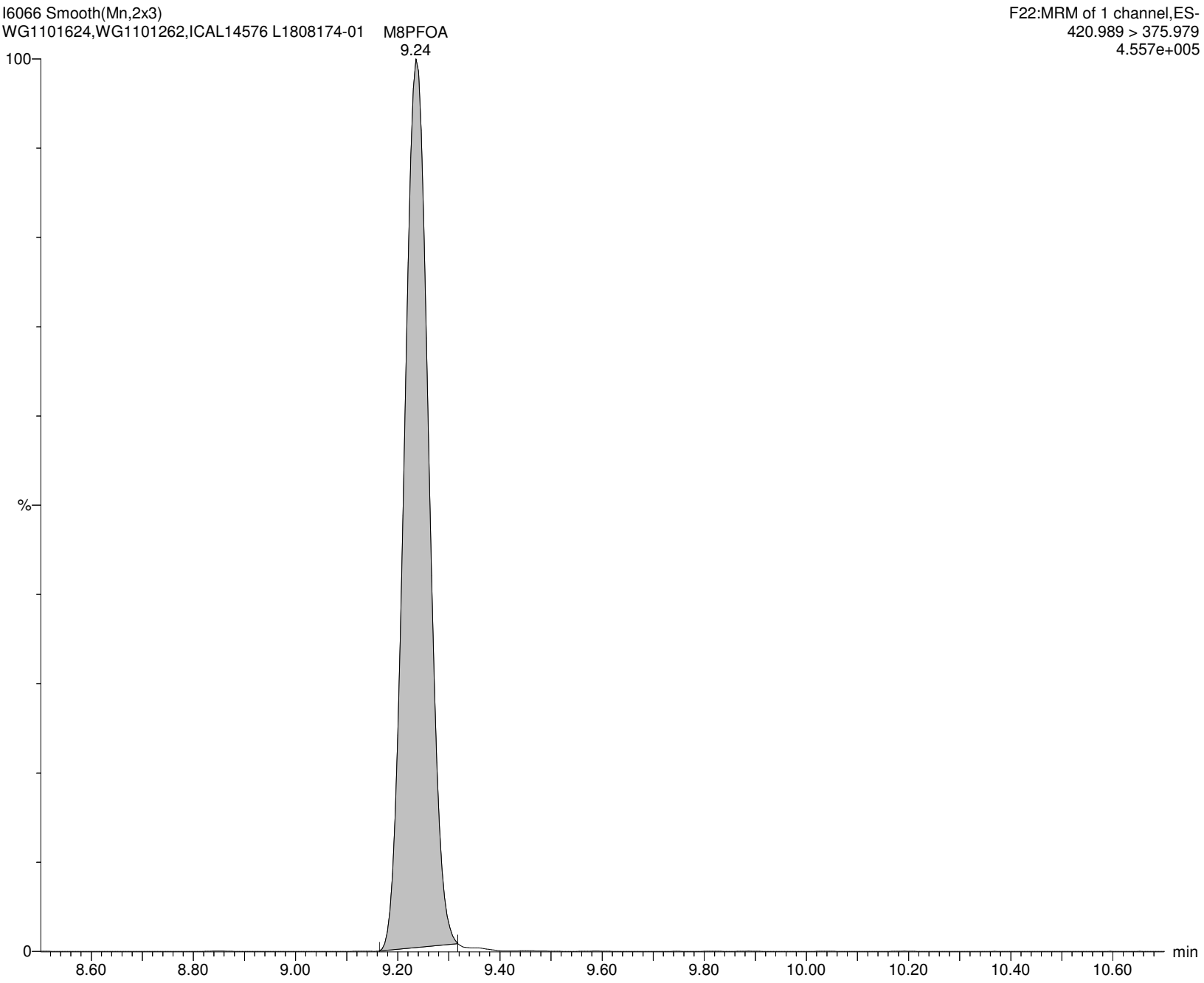

all concentration units in (ng/mL)

Alpha Analytical Inc.
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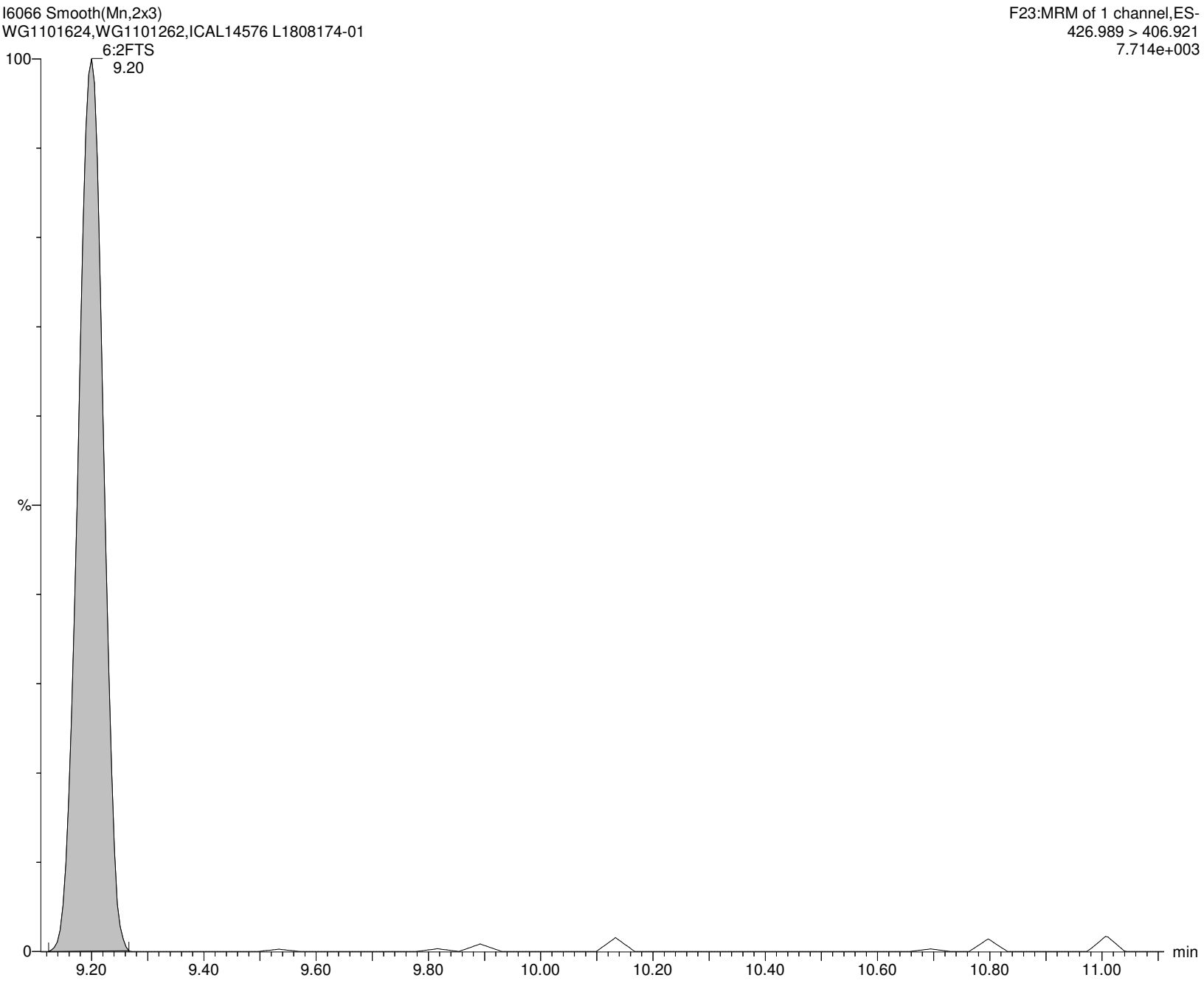

all concentration units in (ng/mL)

Alpha Analytical Inc.
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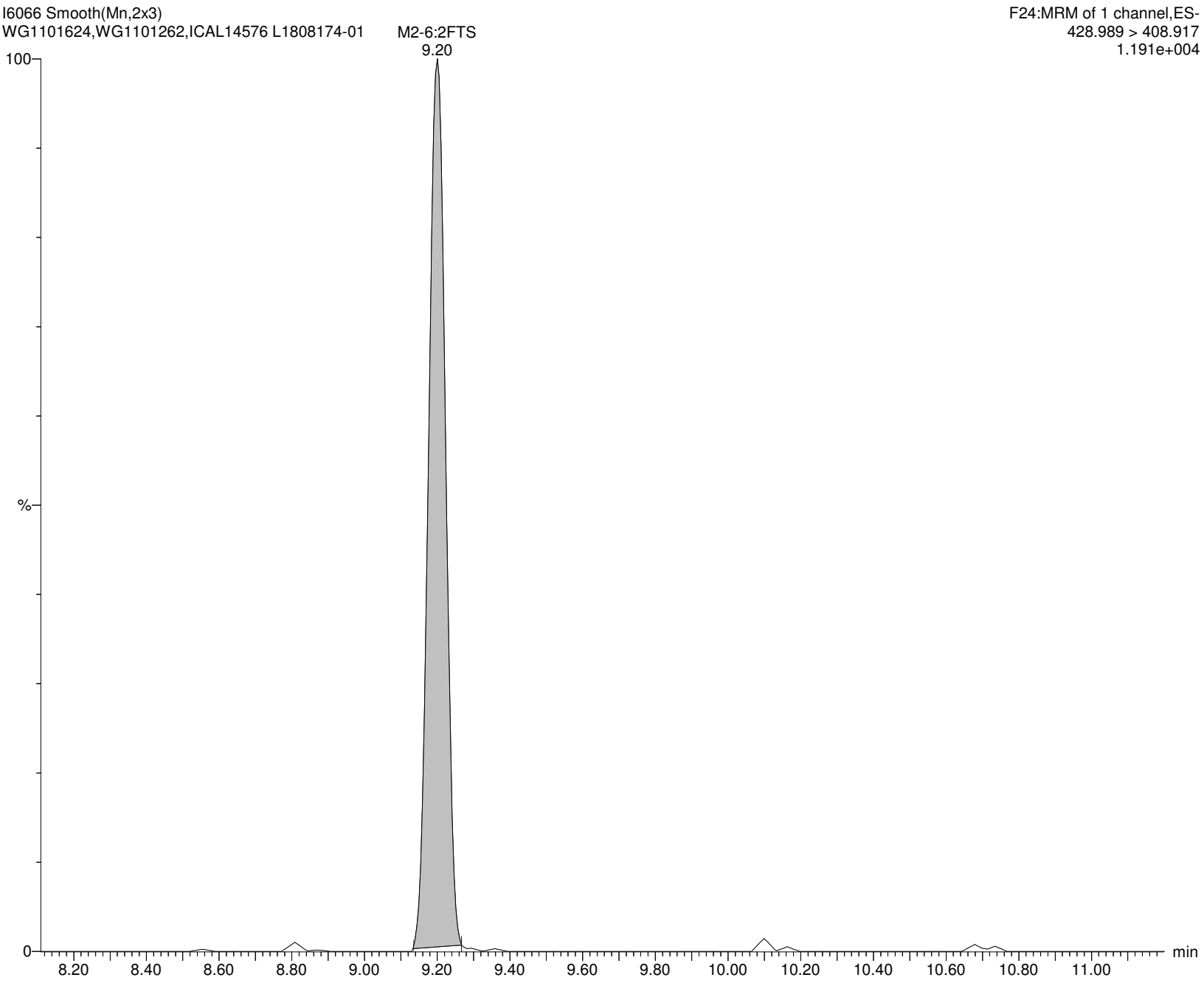

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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-

PFHpS

I6066 Smooth(Mn,2x3)
WG1101624,WG1101262,ICAL14576 L1808174-01

F25:MRM of 1 channel,ES-
448.926 > 80.257
1.000e-003

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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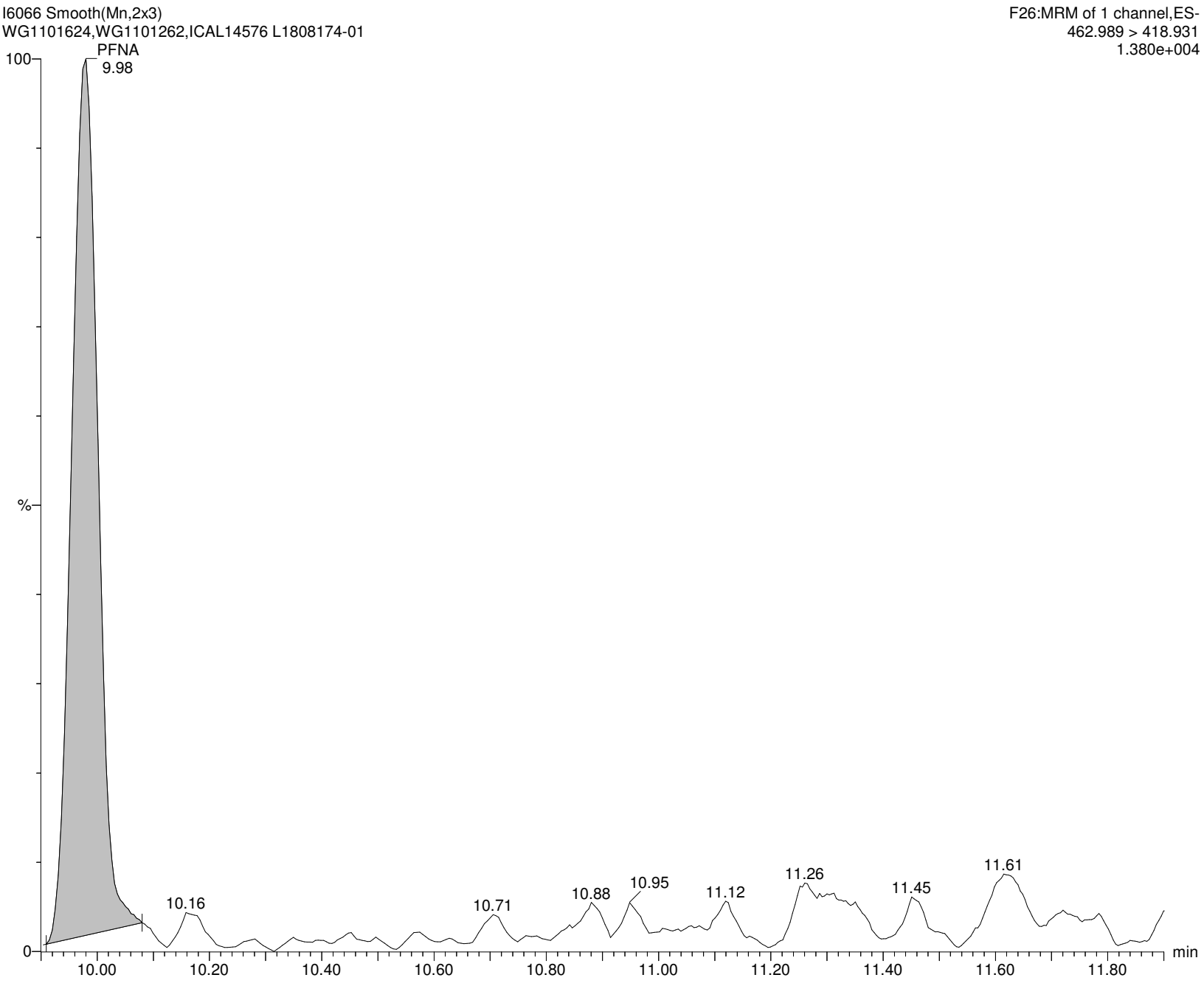

all concentration units in (ng/mL)

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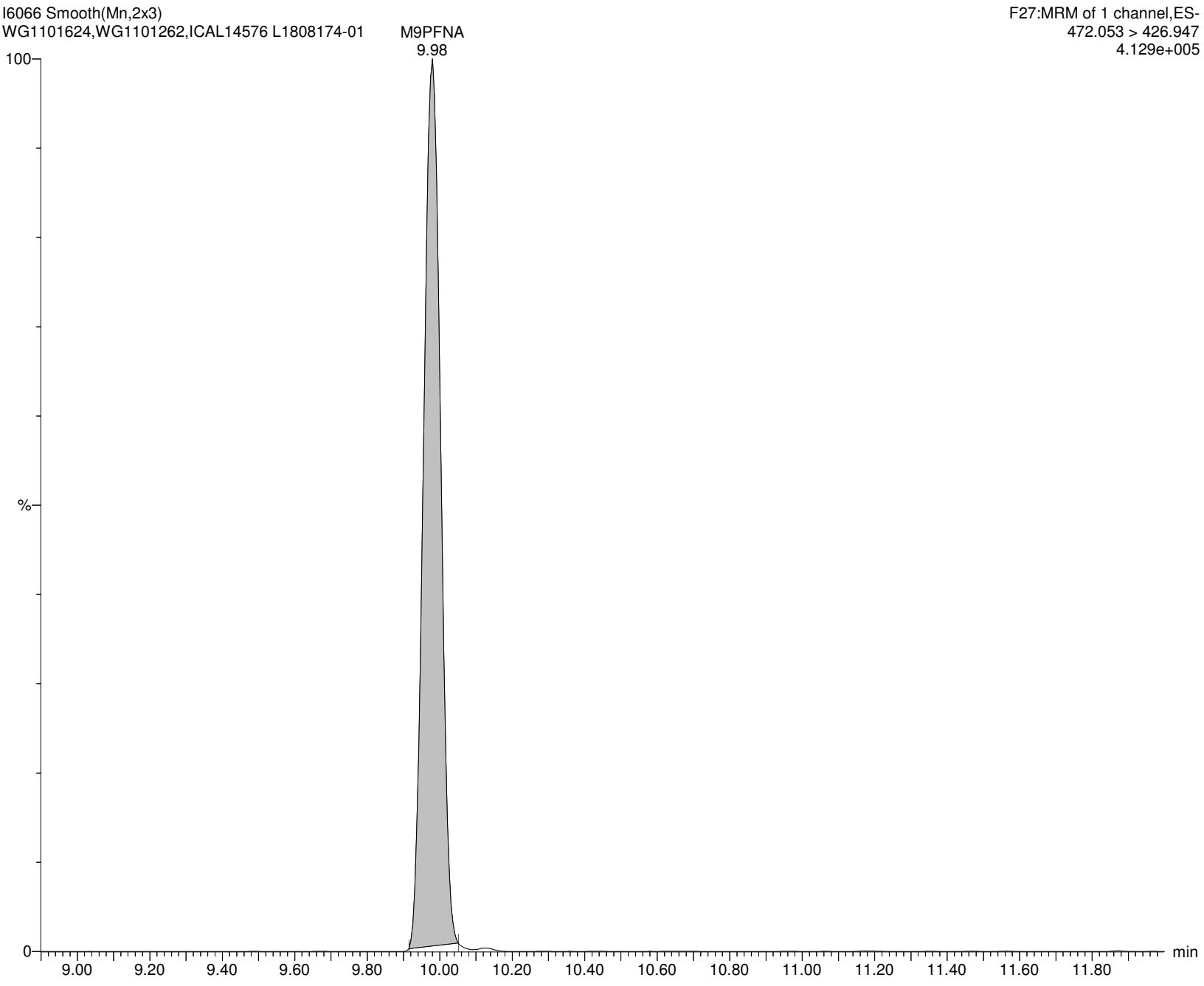

all concentration units in (ng/mL)

Alpha Analytical Inc.
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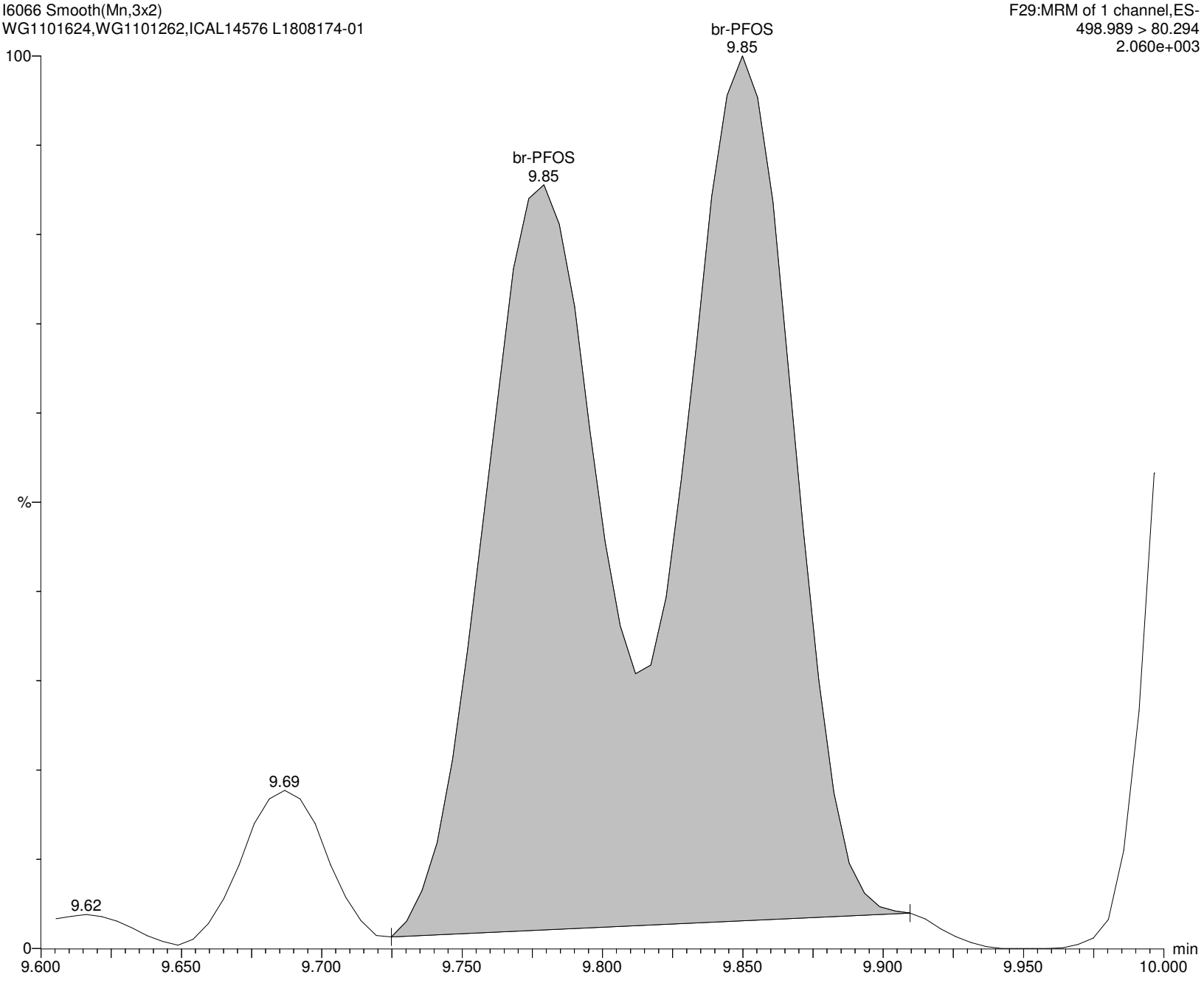

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
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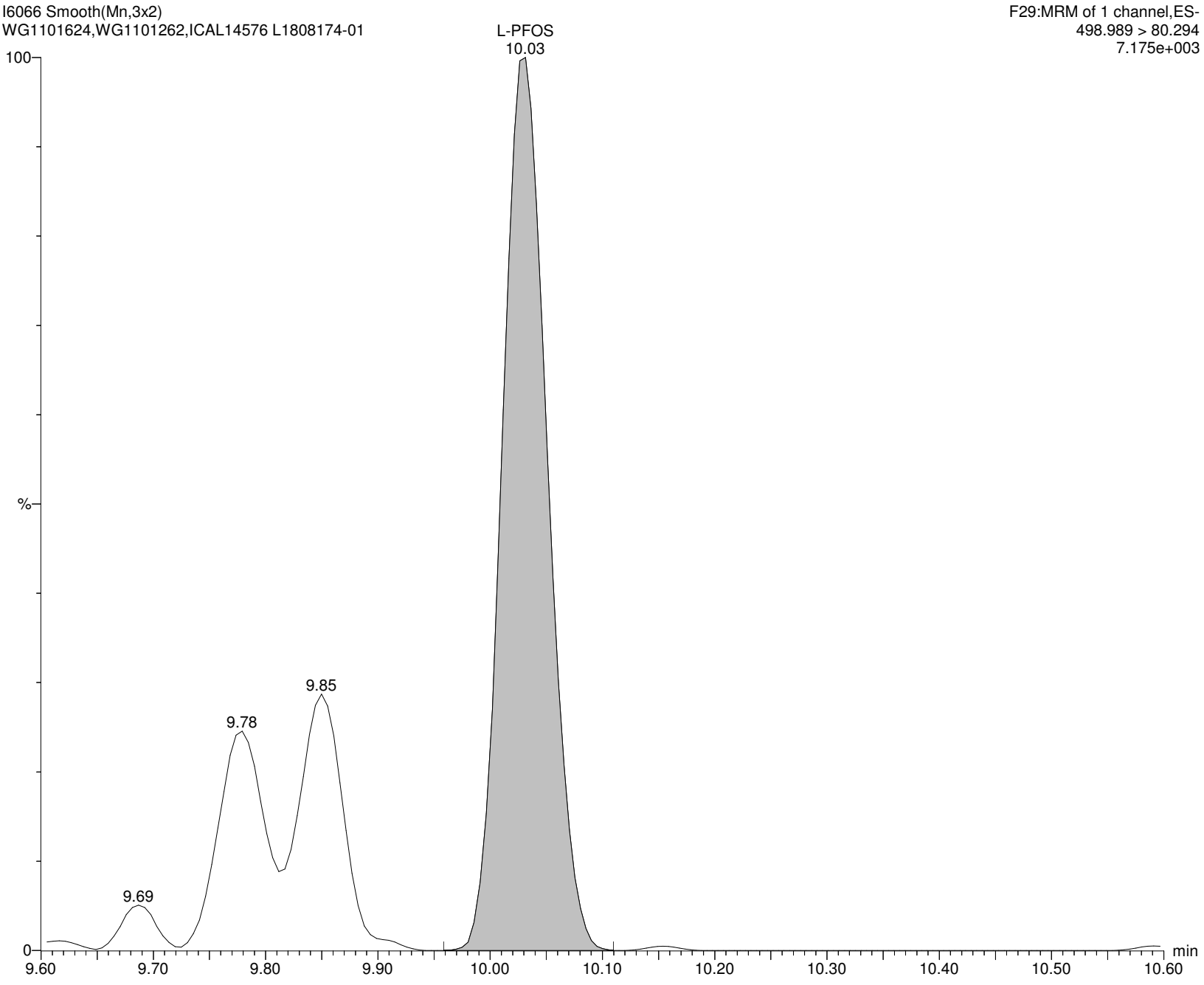

all concentration units in (ng/mL)

Alpha Analytical Inc.
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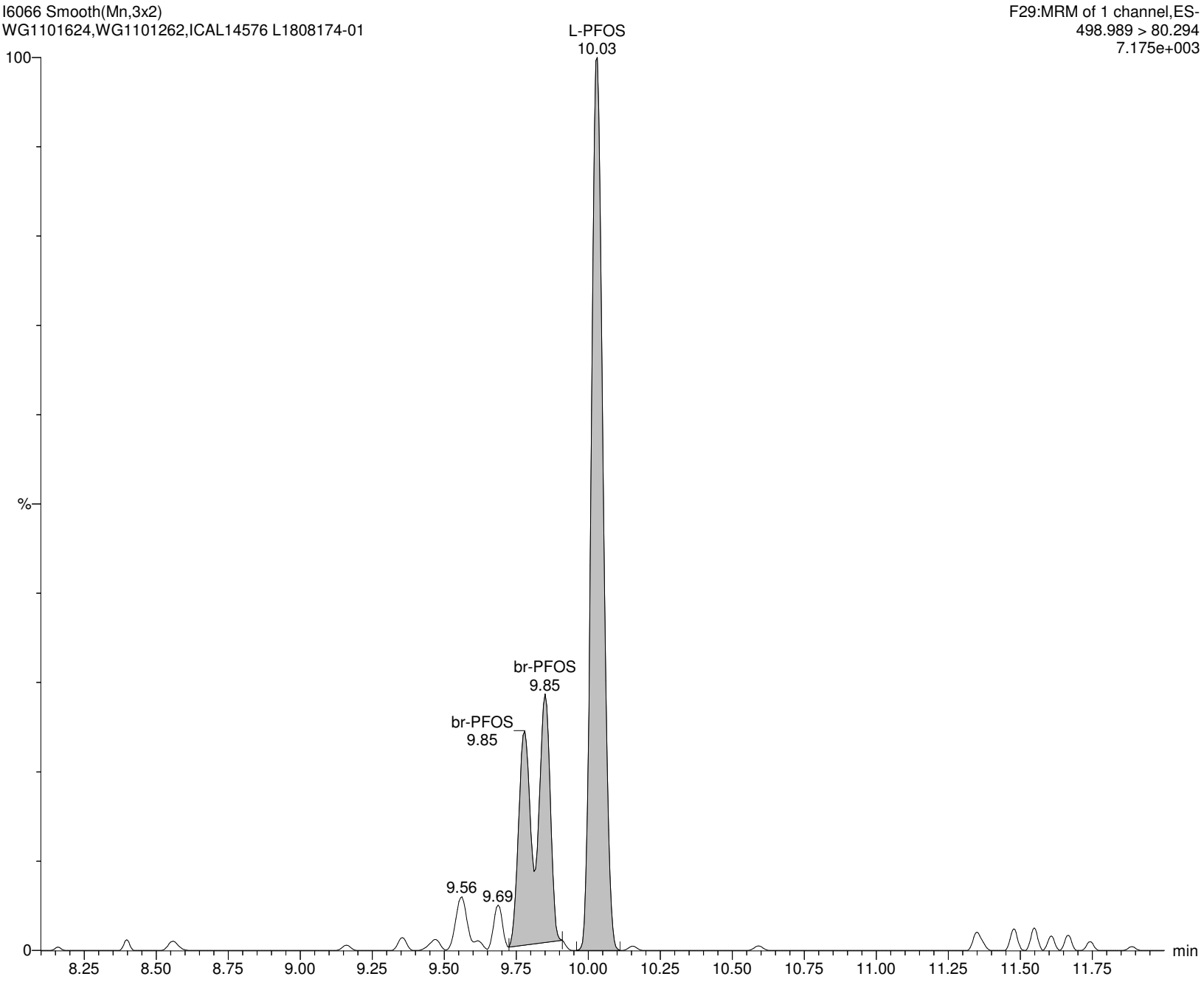

all concentration units in (ng/mL)

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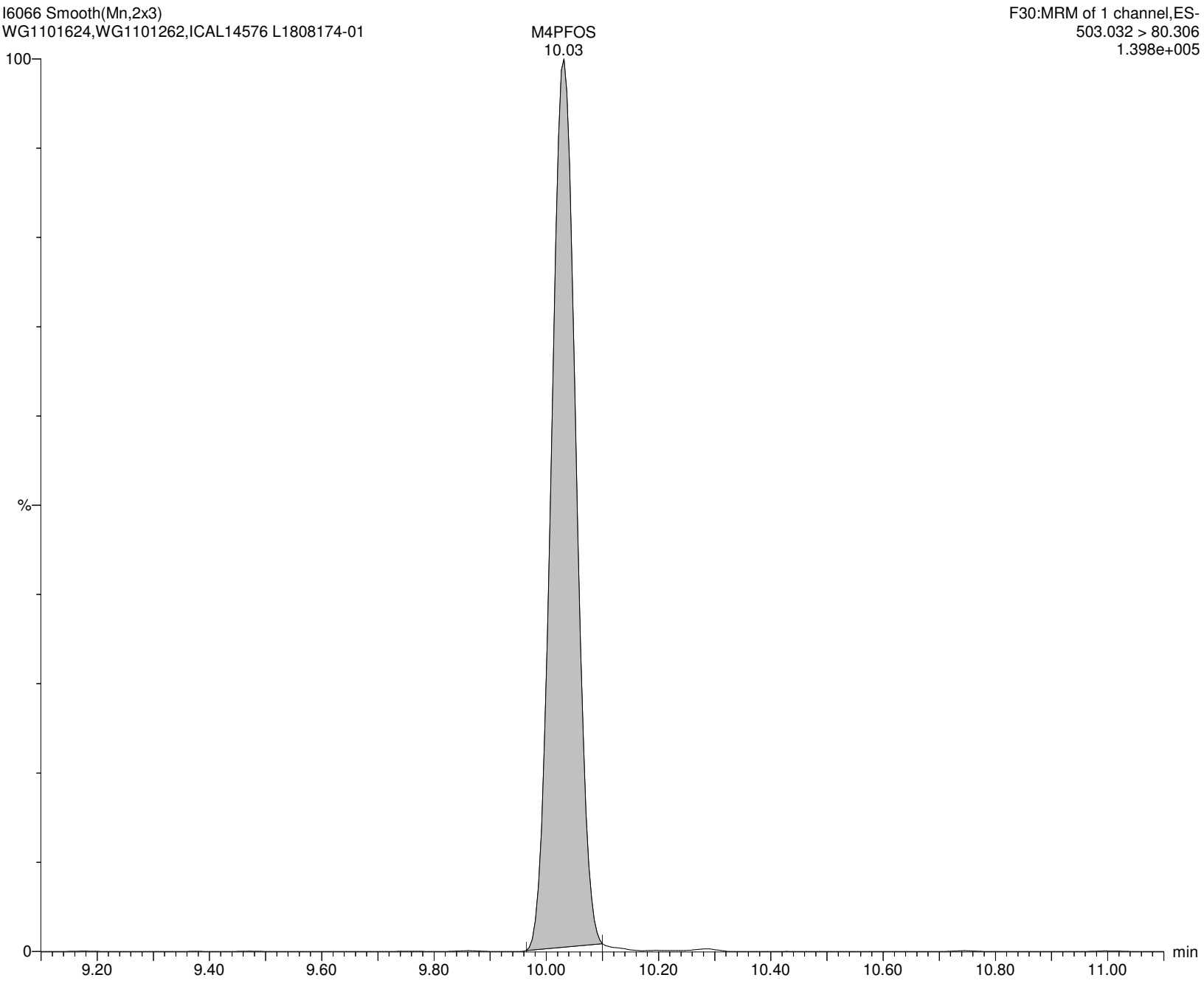

all concentration units in (ng/mL)

Alpha Analytical Inc.
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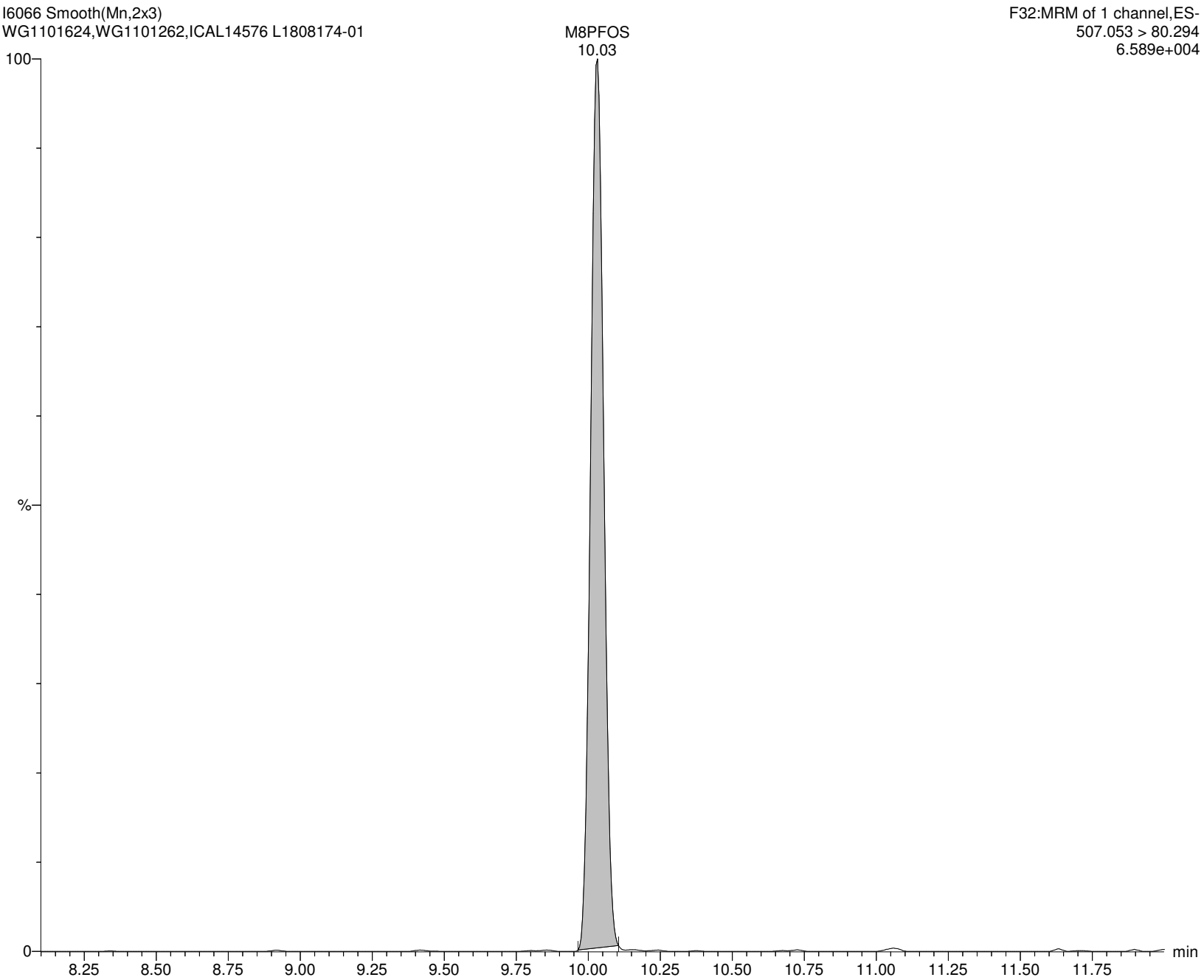

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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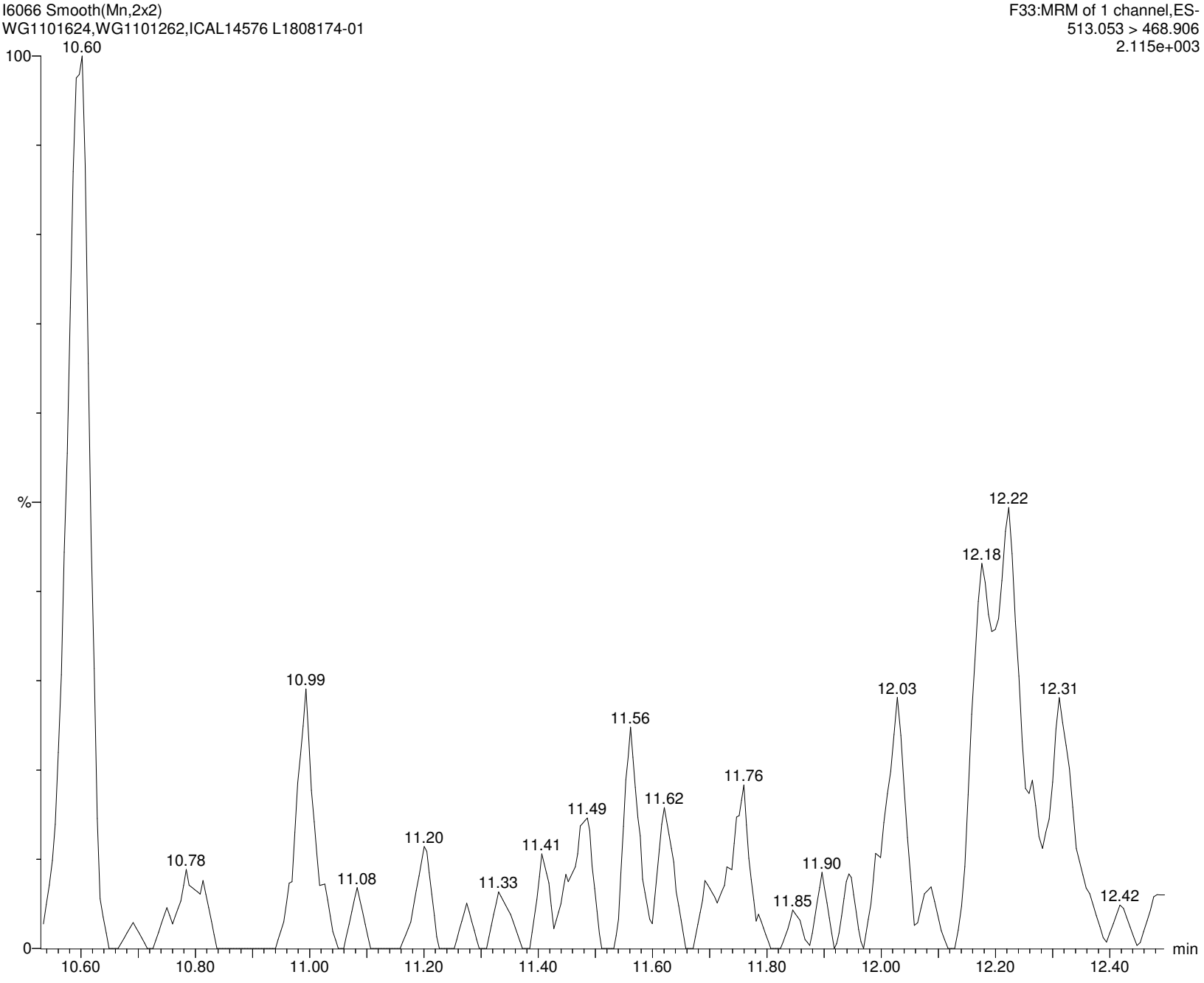

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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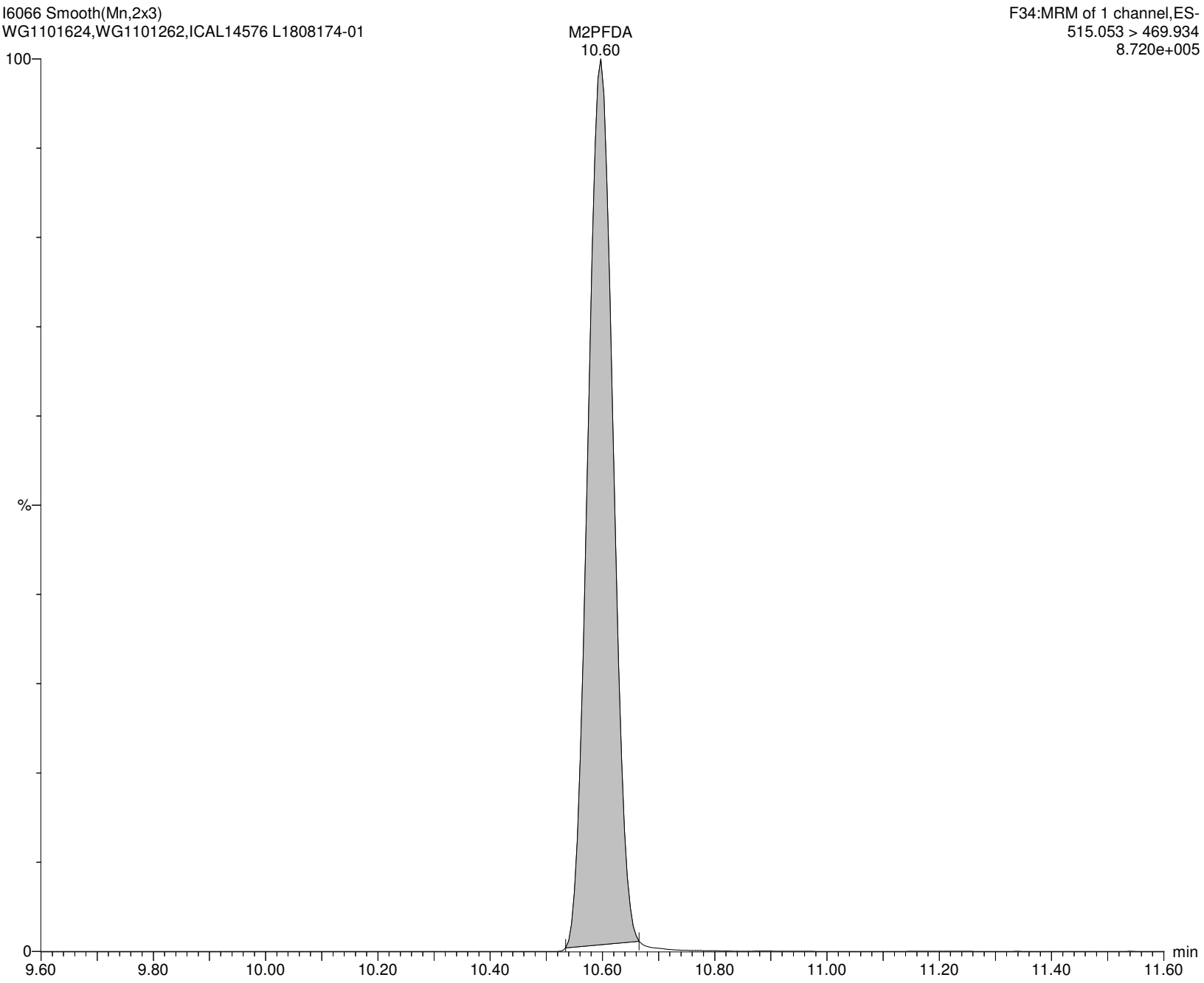

all concentration units in (ng/mL)

Alpha Analytical Inc.
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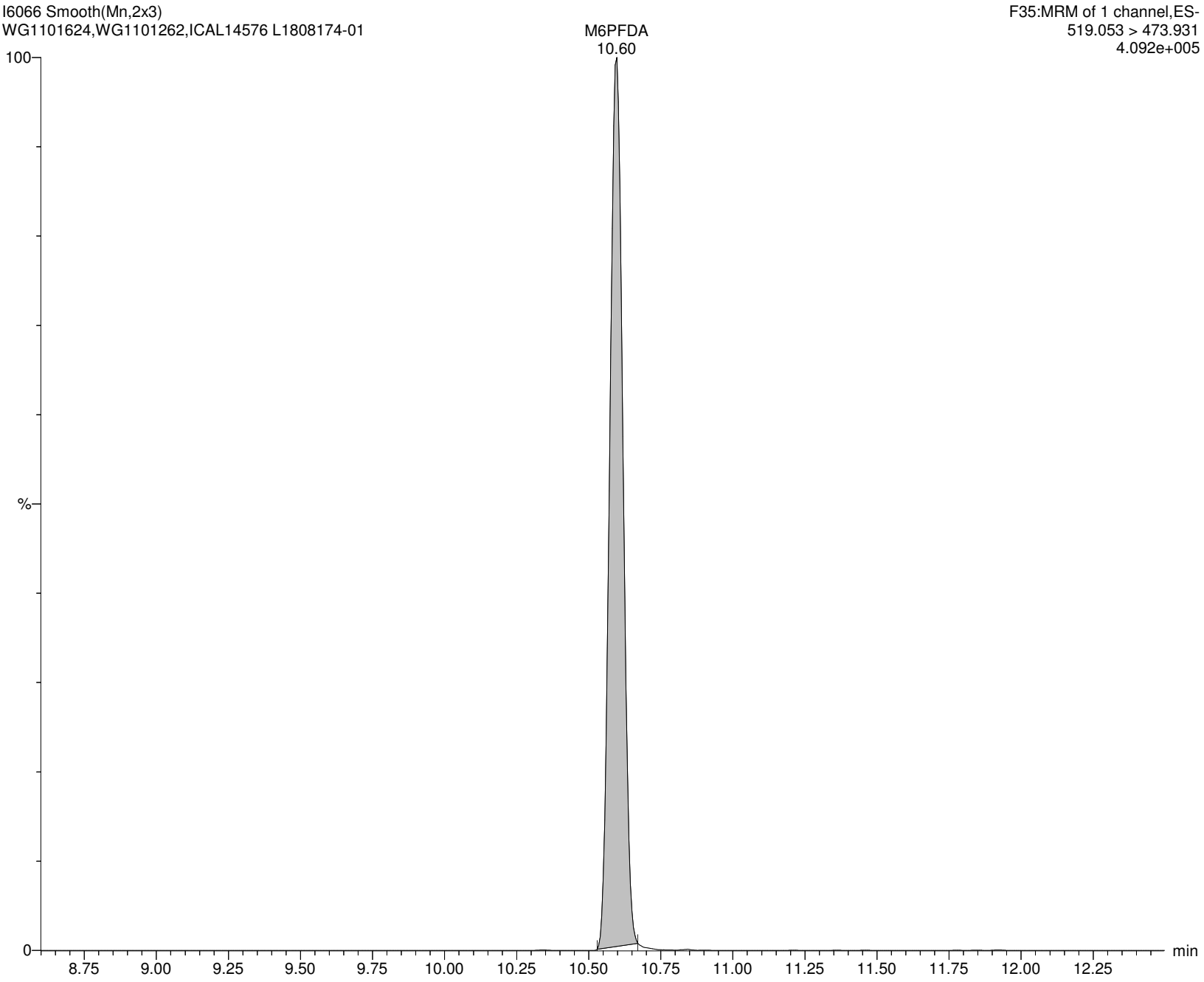

all concentration units in (ng/mL)

Alpha Analytical Inc.
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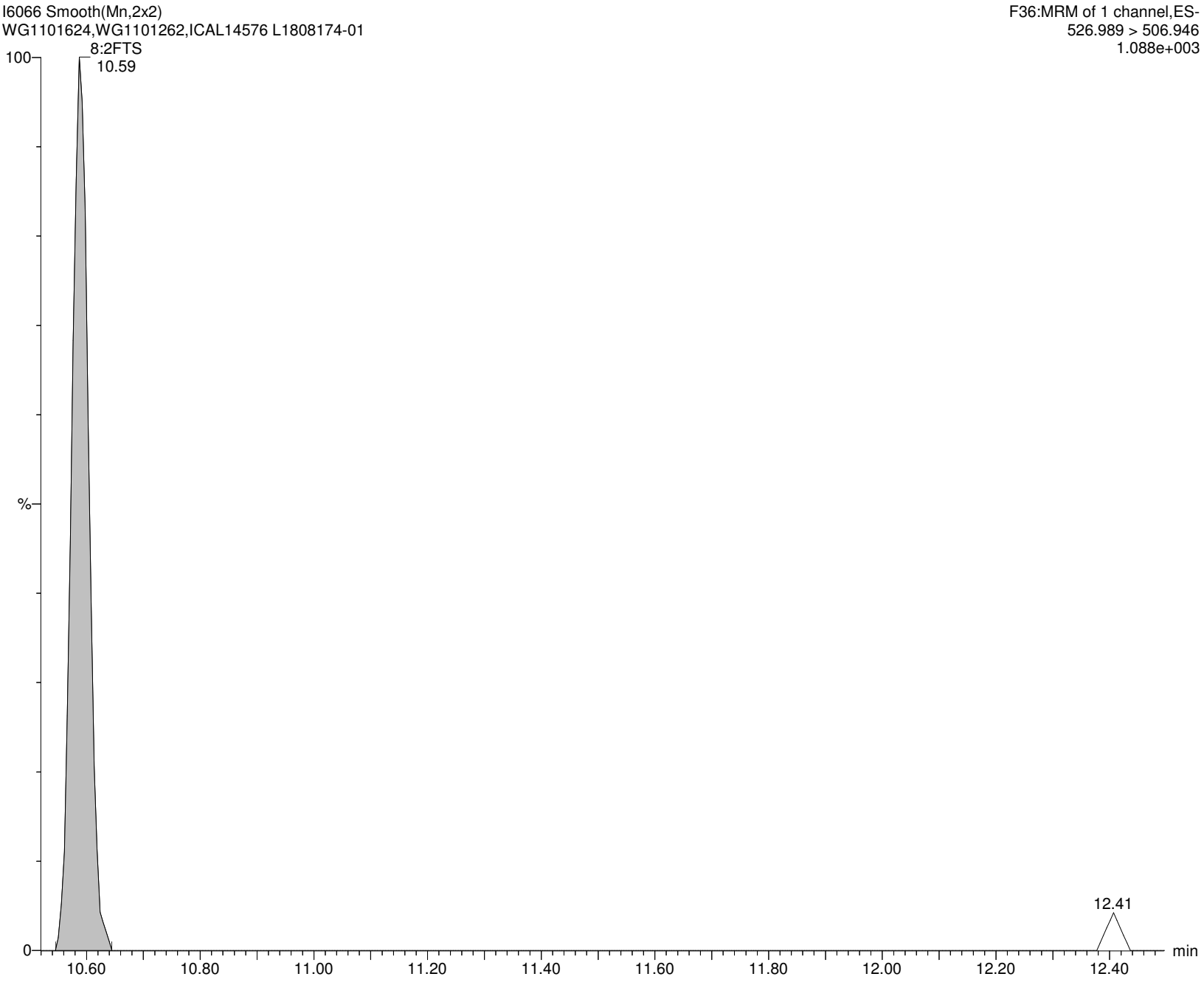

all concentration units in (ng/mL)

Alpha Analytical Inc.
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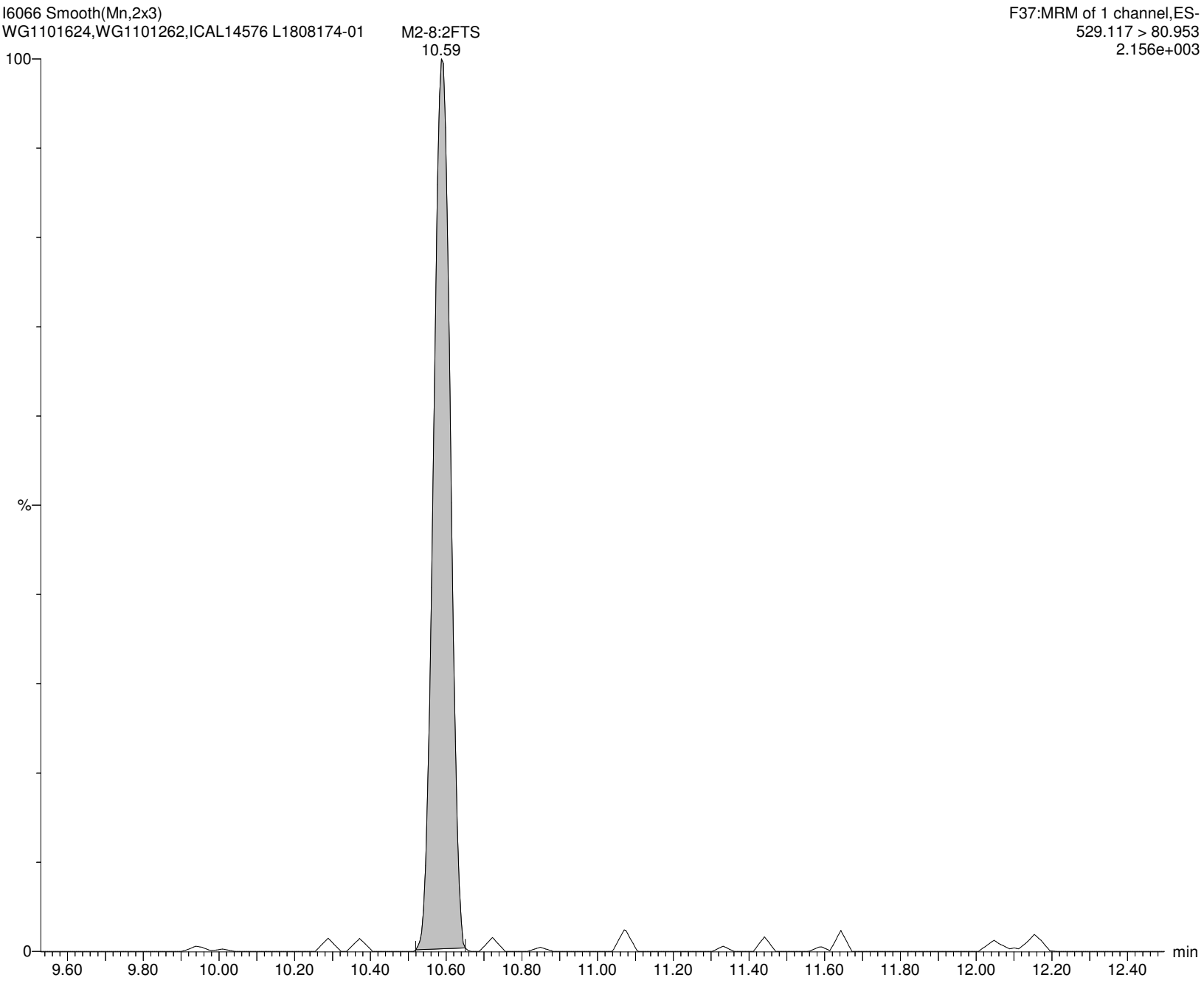

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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Time: 18:01:25
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-

PFNS

I6066 Smooth(Mn,2x2)
WG1101624,WG1101262,ICAL14576 L1808174-01

F38:MRM of 1 channel,ES-
548.989 > 80.249
1.000e-003

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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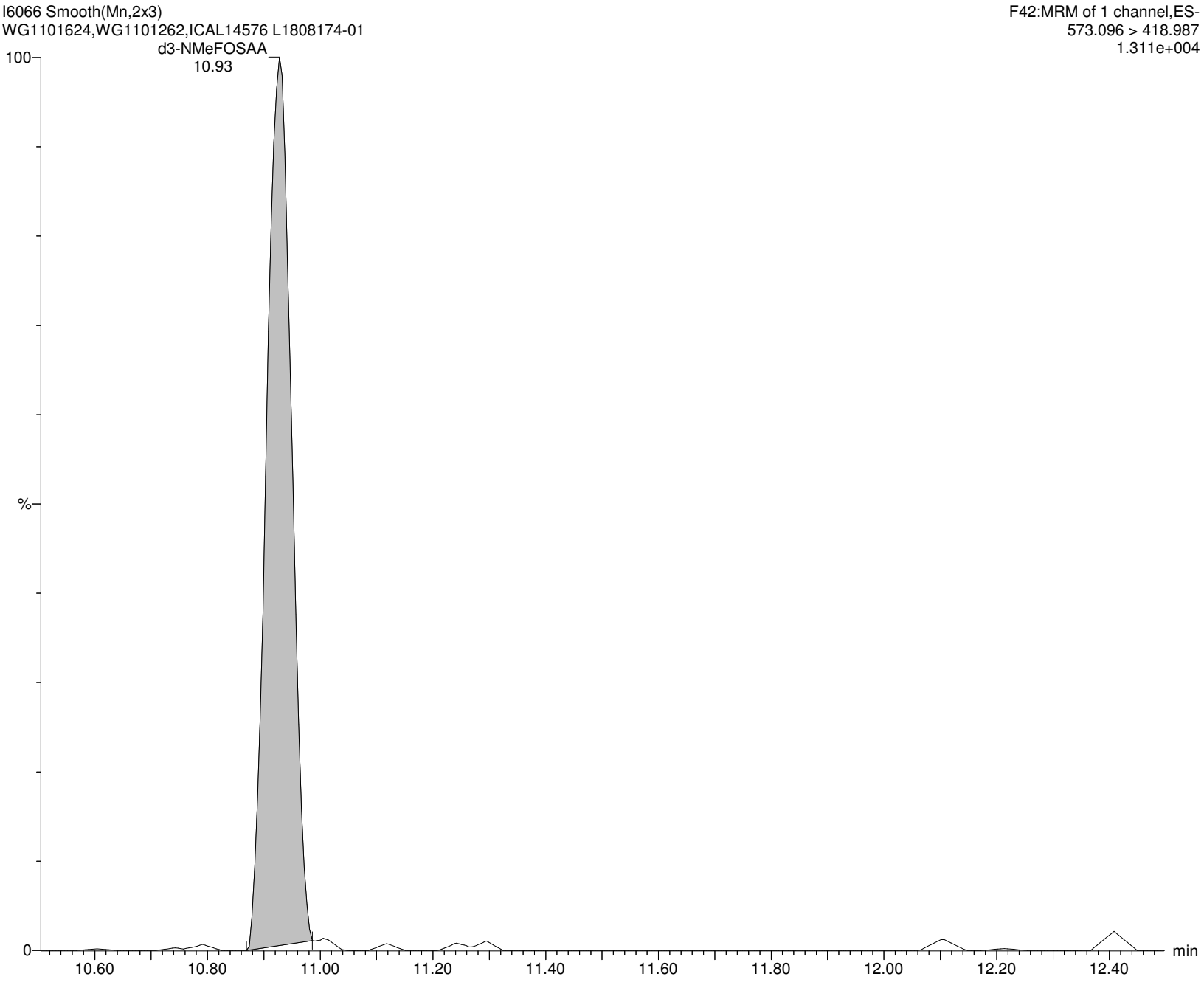

all concentration units in (ng/mL)

Alpha Analytical Inc.
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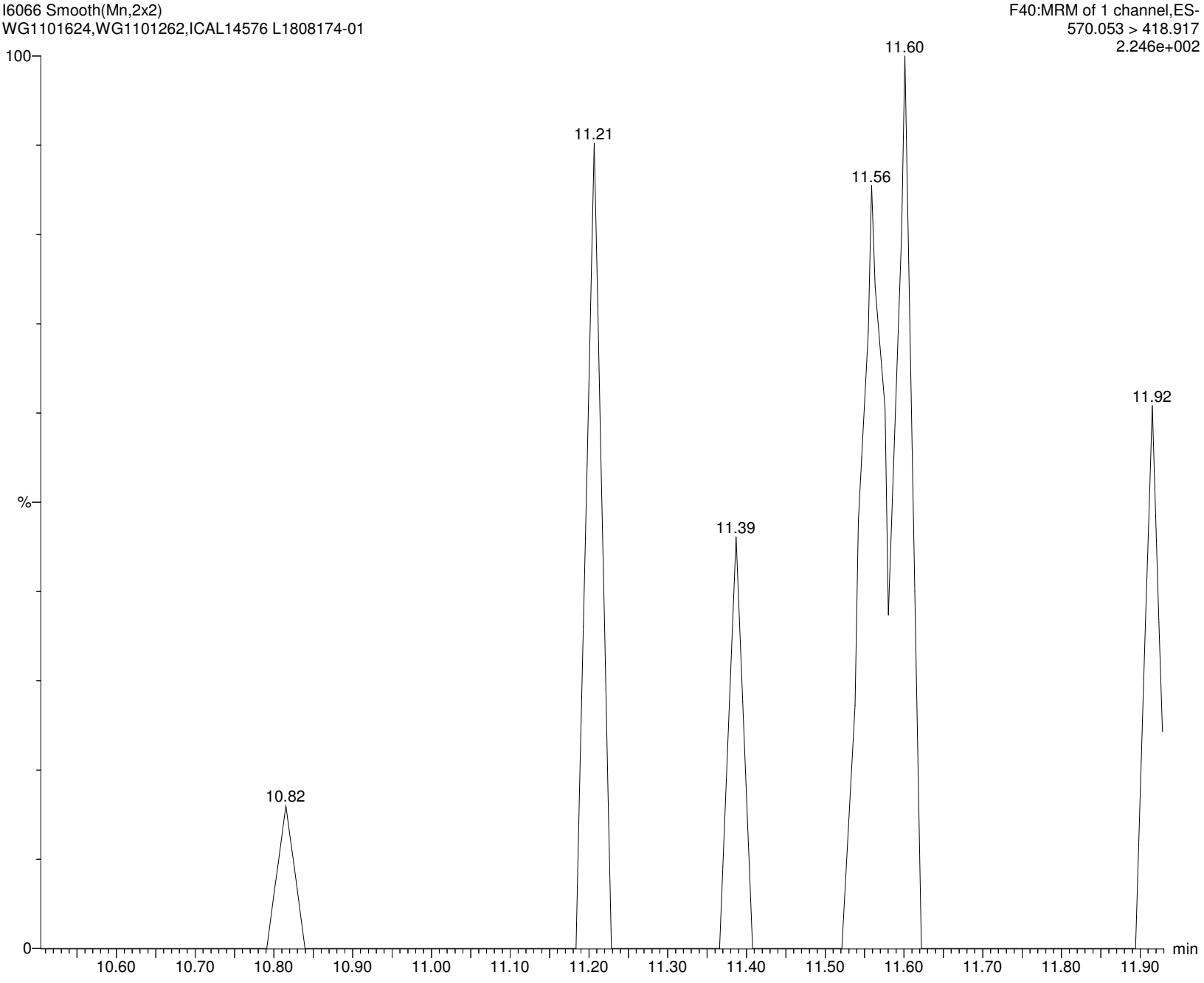

all concentration units in (ng/mL)

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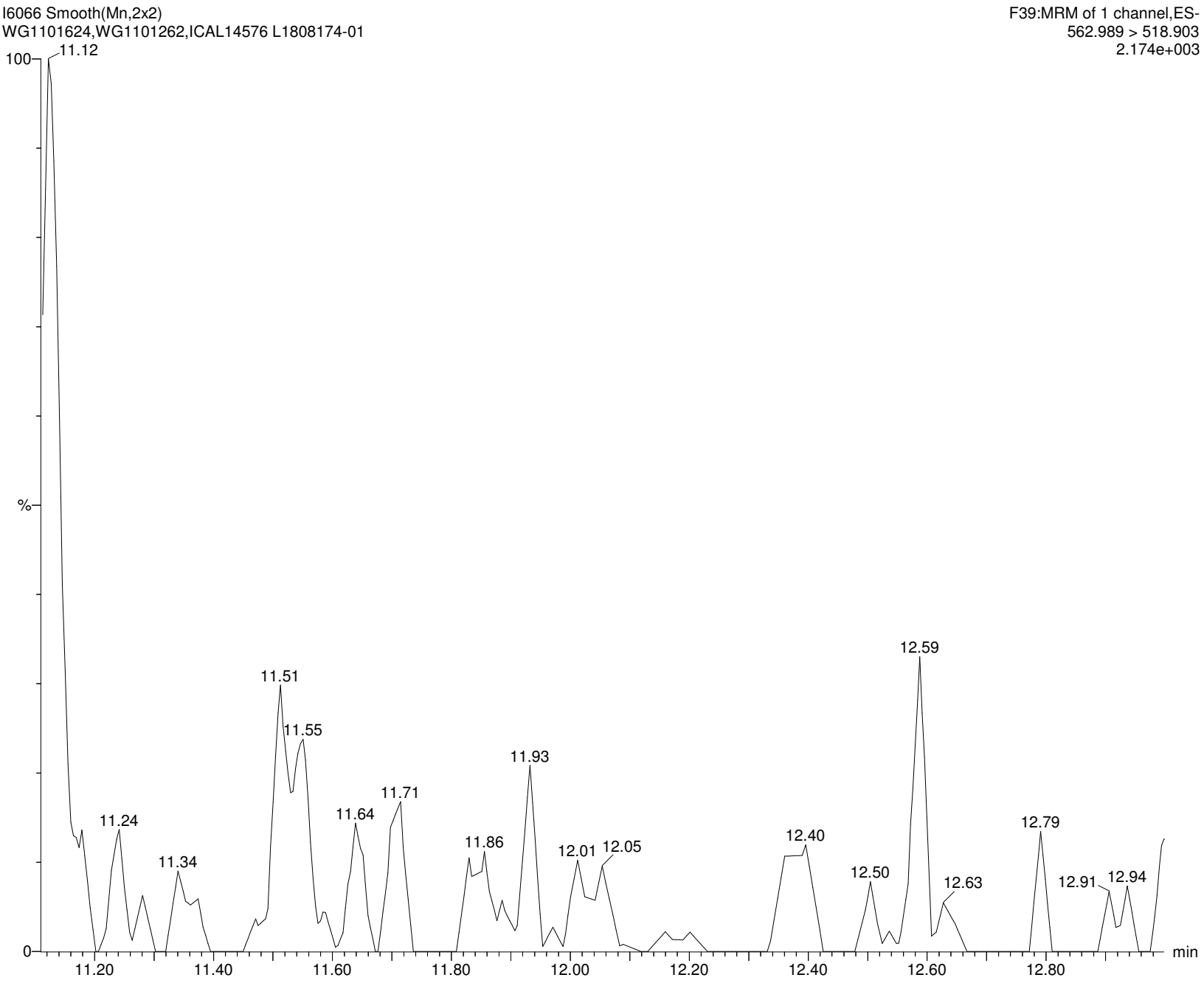

all concentration units in (ng/mL)

Alpha Analytical Inc.
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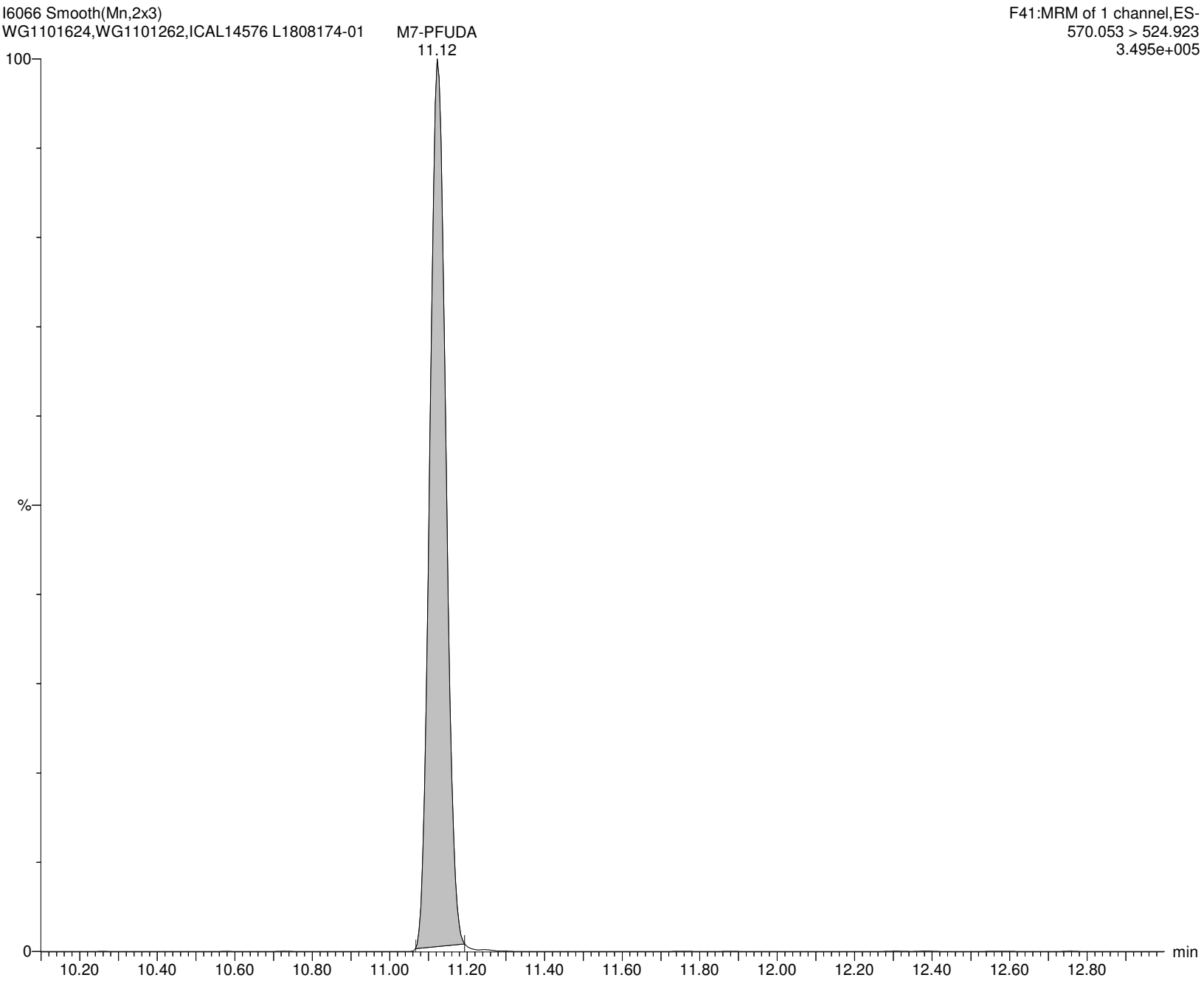
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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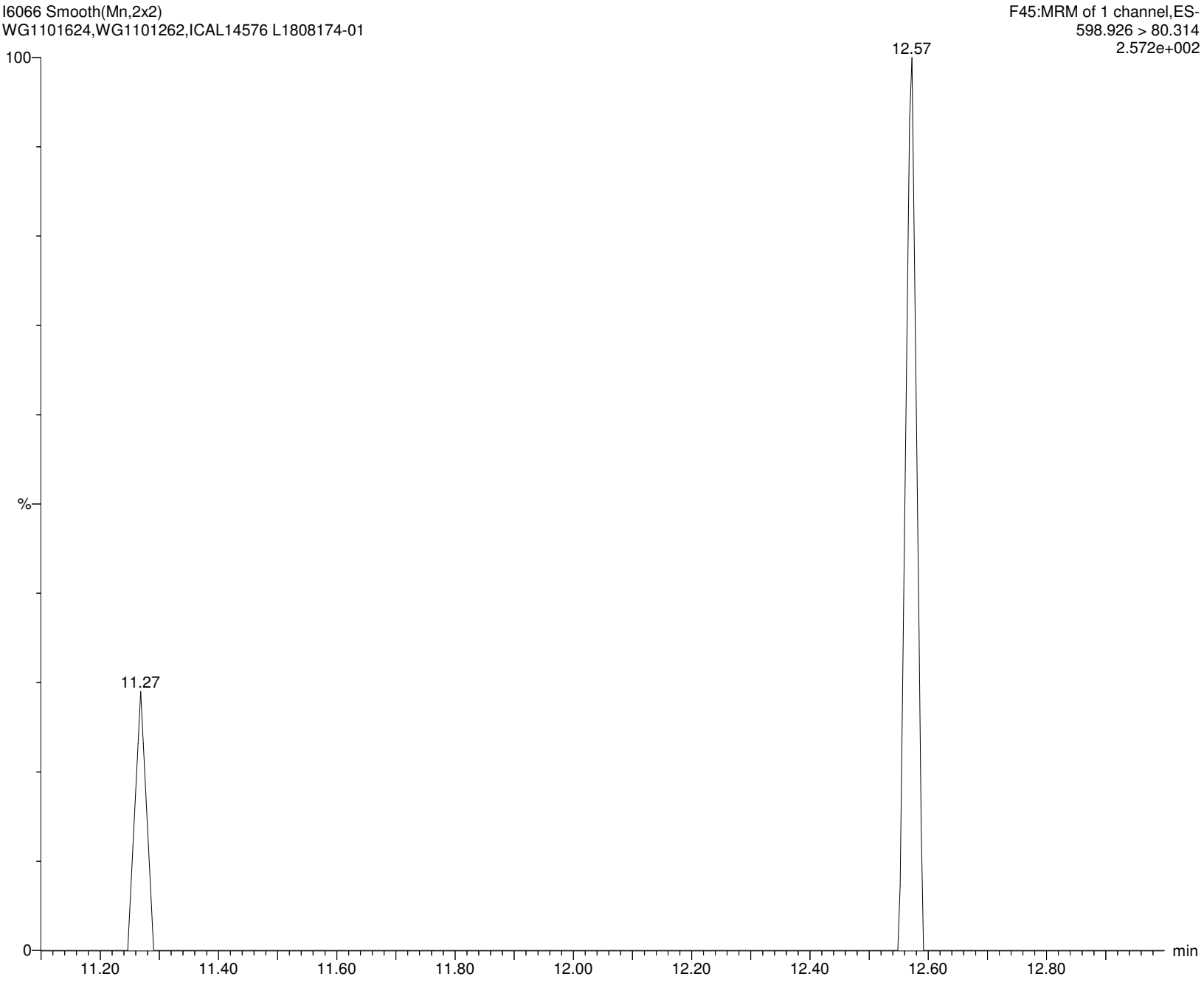

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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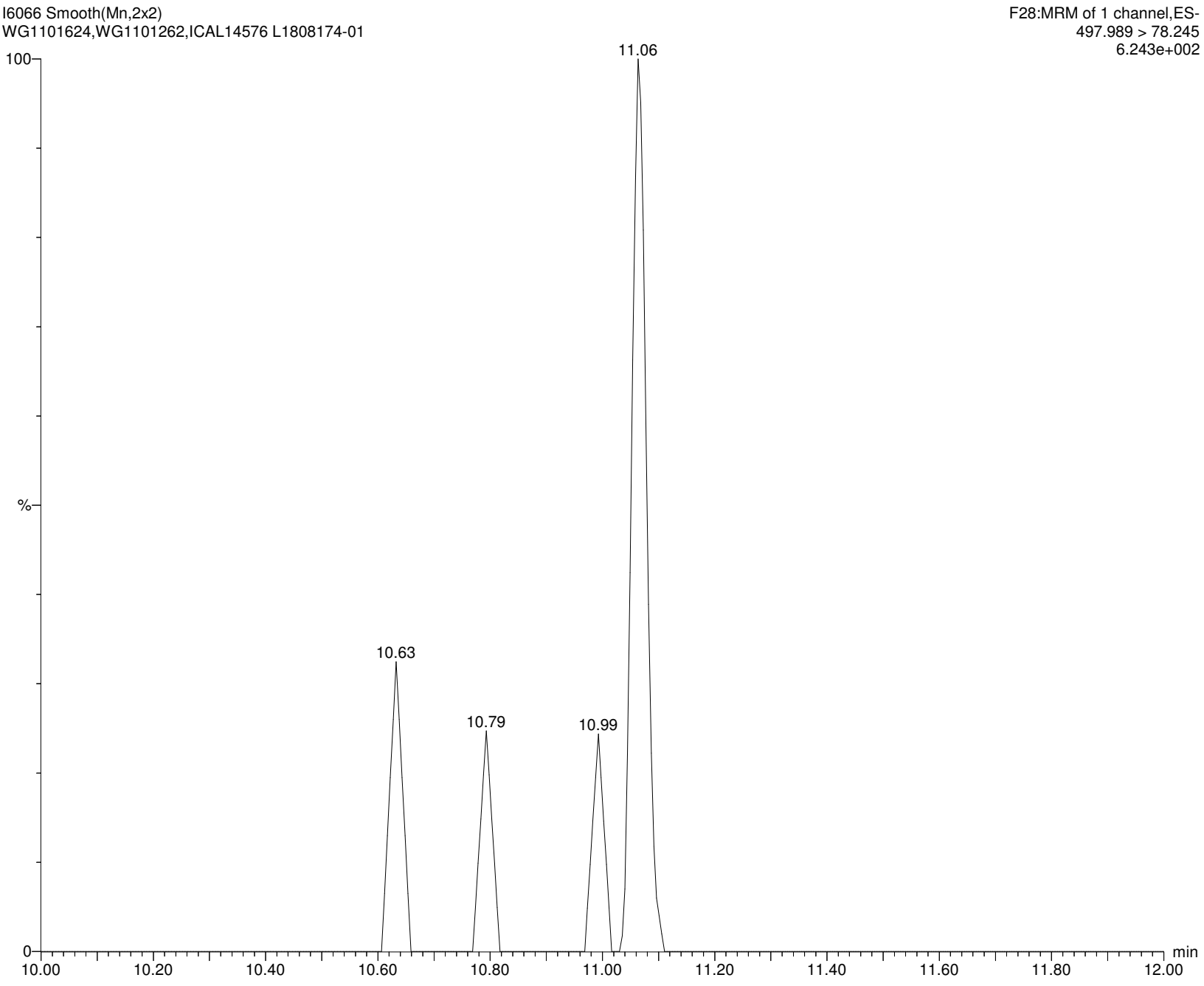
FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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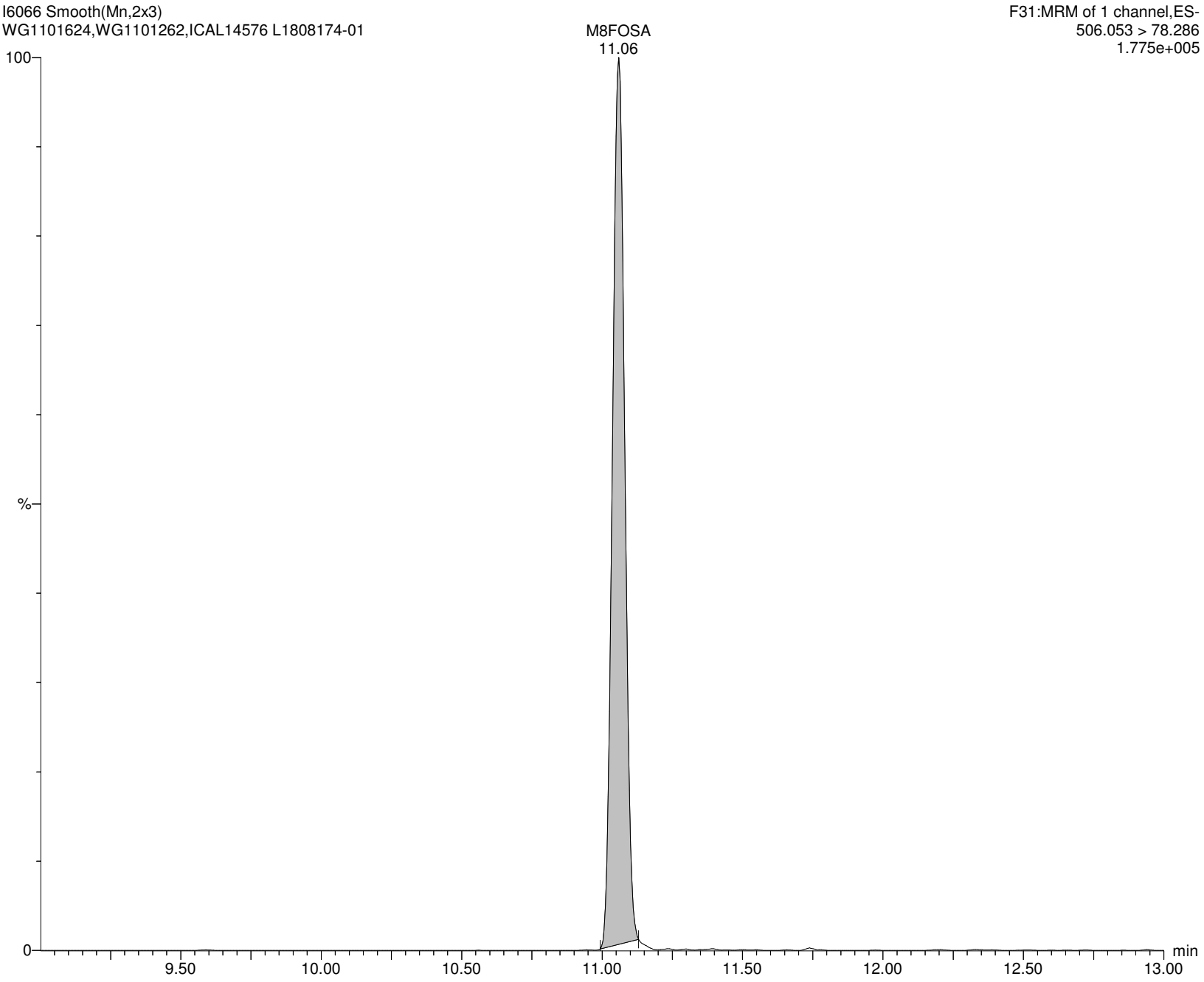
M8FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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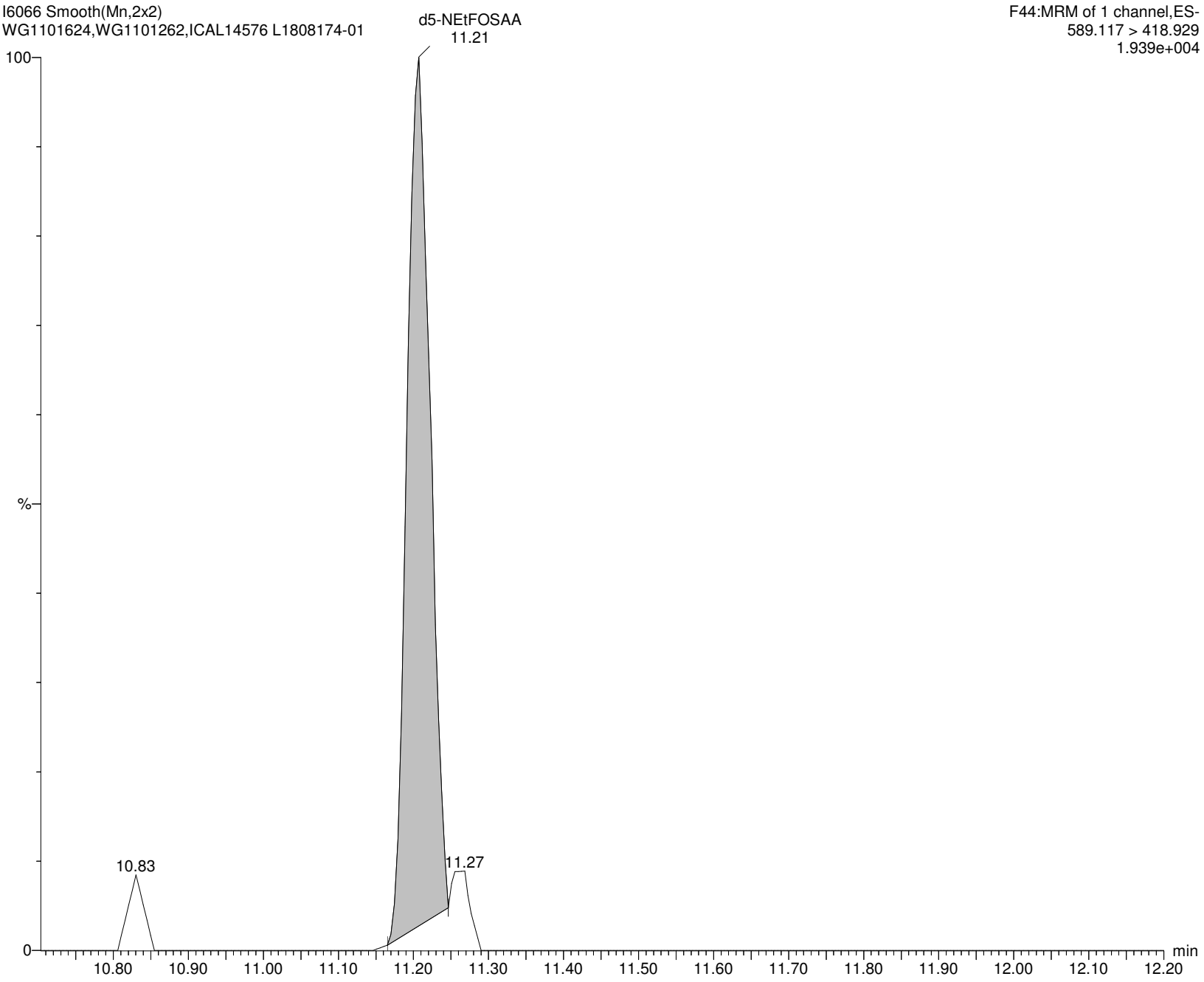
d5-NEtFOSAA



all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Printed: Thursday, March 29, 2018 20:31:12 Eastern Daylight Time

Name: I6066
ID: L1808174-01
Date: 29-Mar-2018
Time: 18:01:25
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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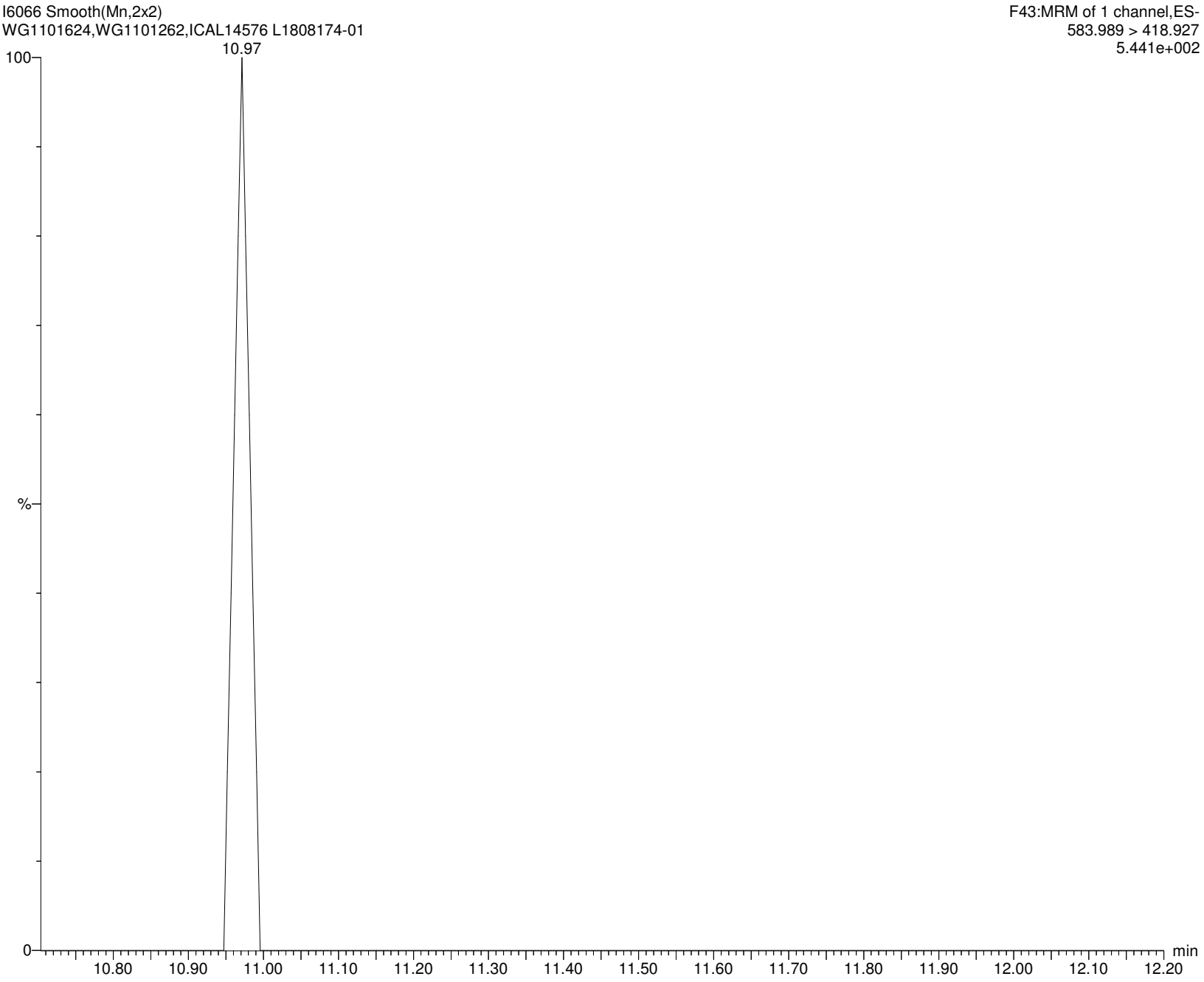

all concentration units in (ng/mL)

Alpha Analytical Inc.
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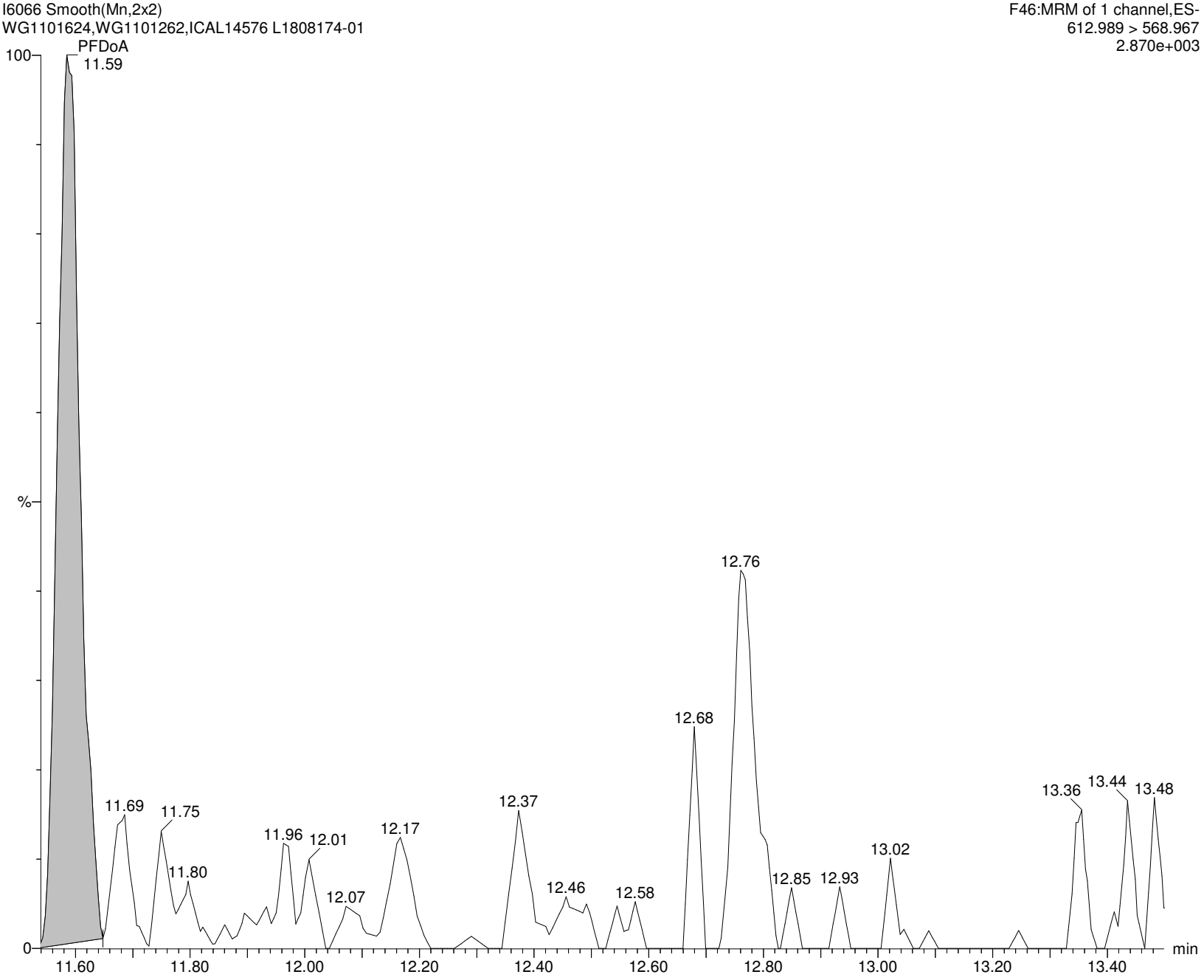

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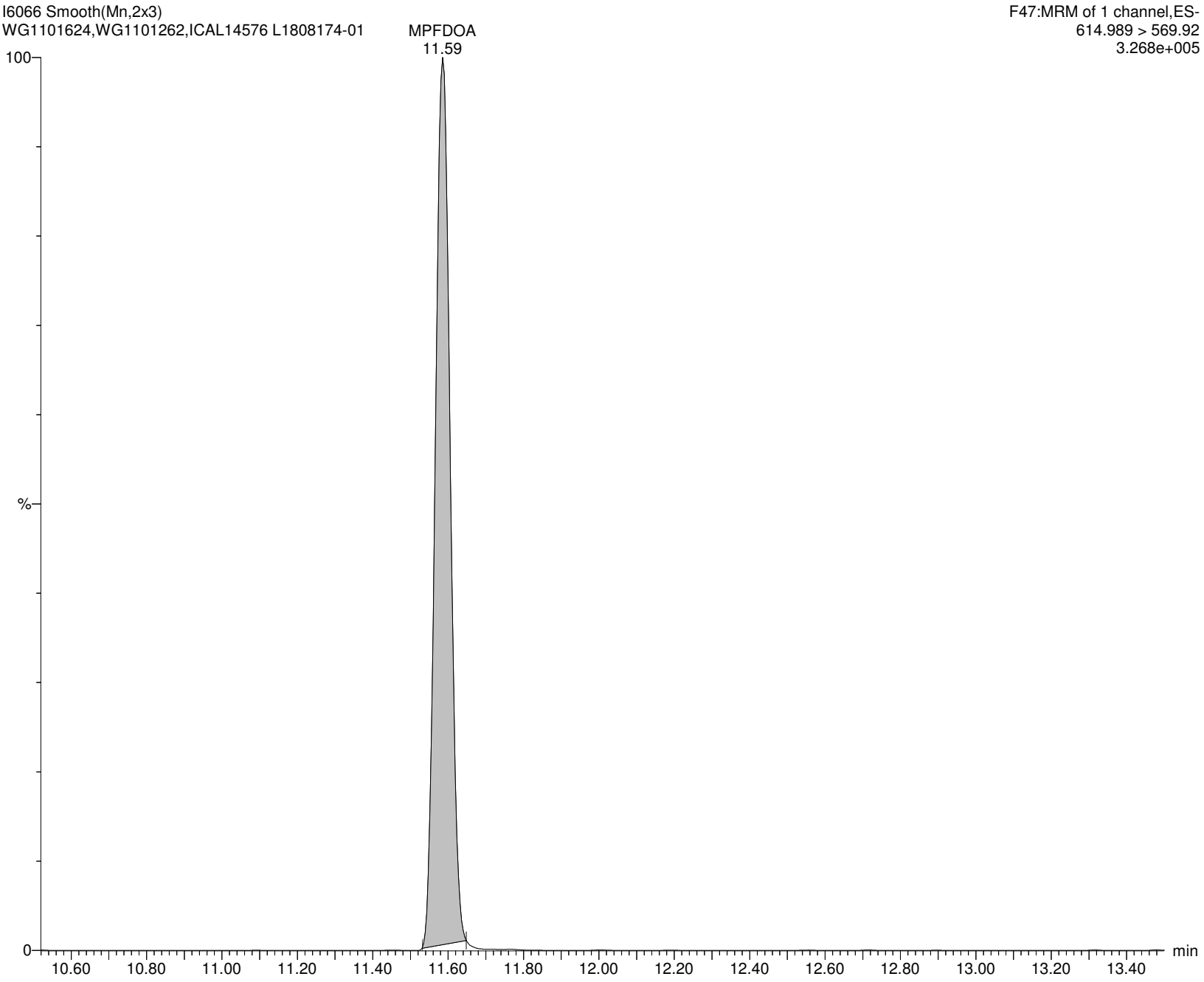

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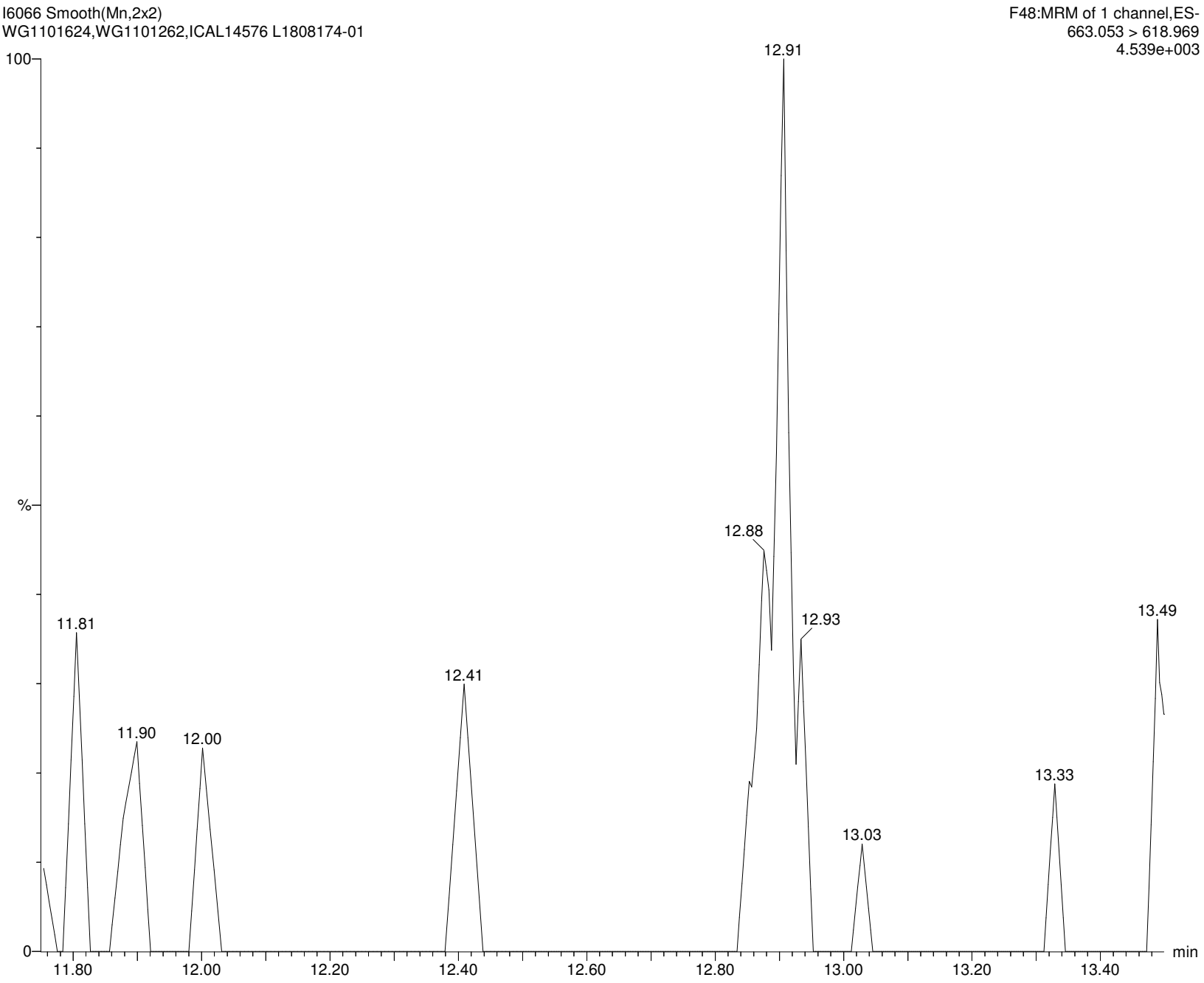

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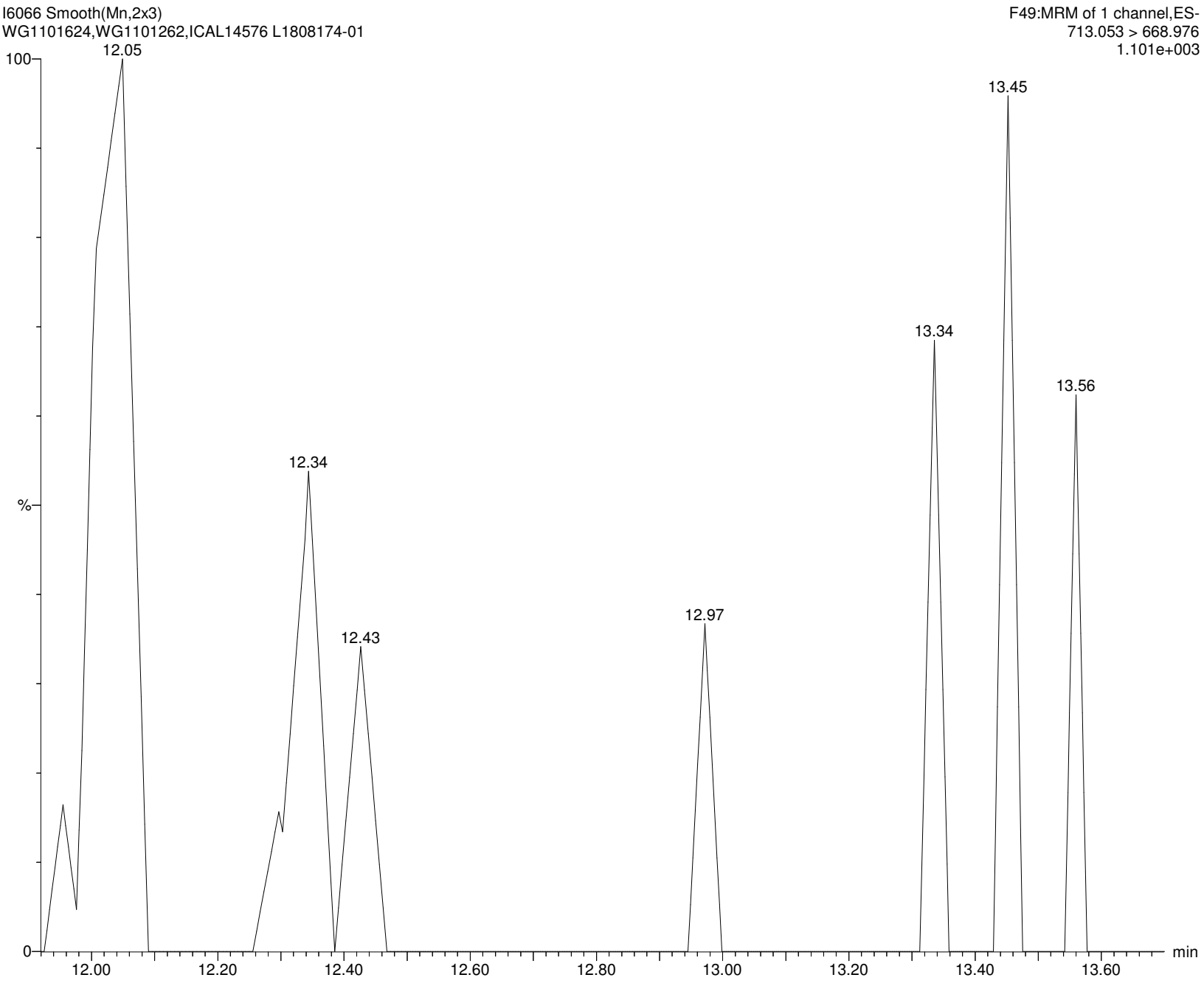

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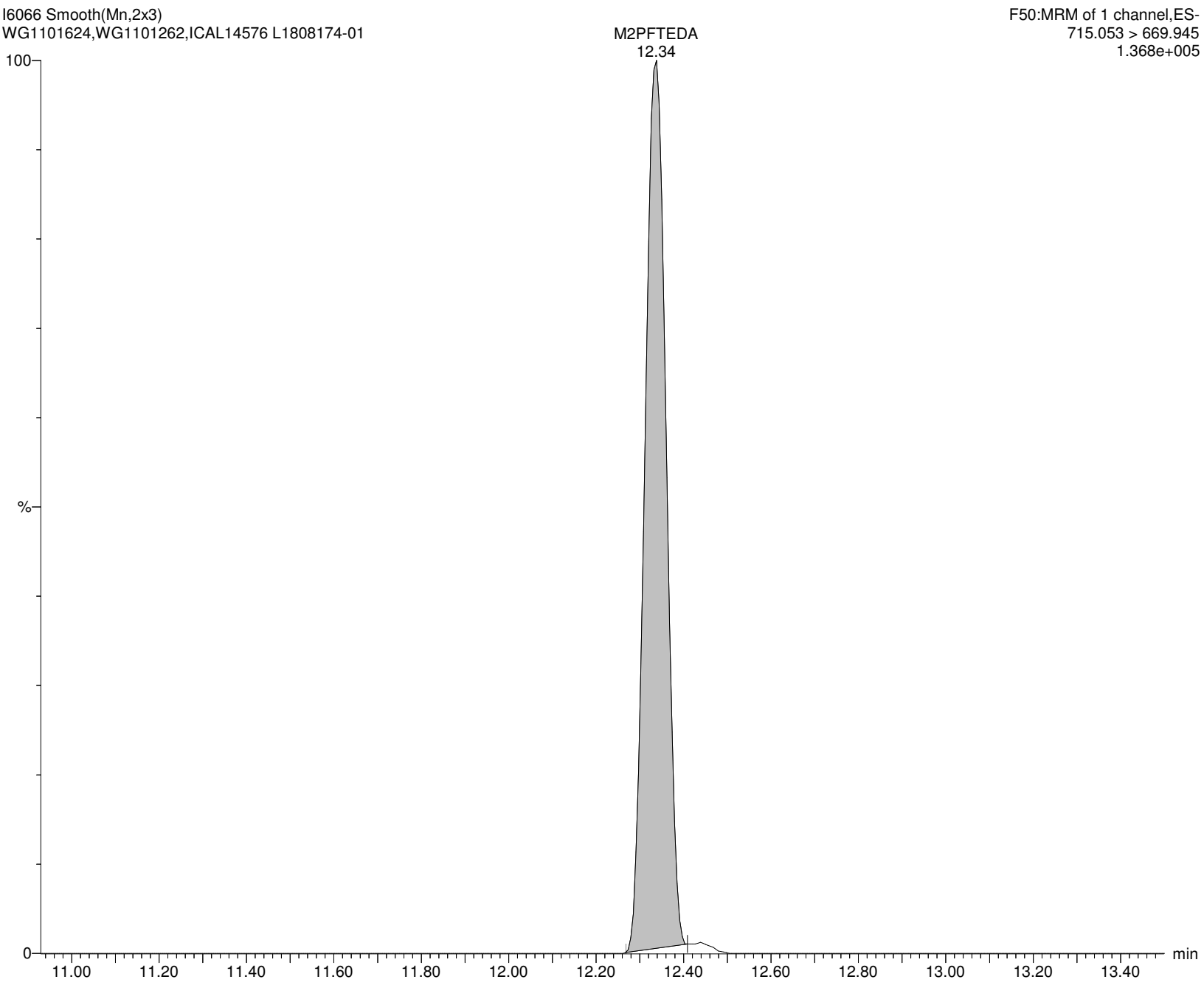

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Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: L1808174-02
Name: I6067
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	804		0.496		na	
2	M3PFBA	INT STD	2.23	215.926 > 172.122	42473		8.511		na	85.1
3	MPFBA	INT STD	2.23	216.926 > 172.137	22028		4.641		na	46.4
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	3944		2.033		na	
5	M5PFPEA	INT STD	5.13	TIC	24672		5.043		na	50.4
6	PFBS	375-73-5	5.81	298.989 > 80.295	227		0.475		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	4862		3.822		na	38.2
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.96	328.989 > 80.973	395		2.408		na	24.1
10	PFHxA	307-24-4	7.04	312.989 > 269.028	32738		12.975		na	
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	27912		4.009		na	40.1
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	620		1.324		na	
13	PFHpA	375-85-9	8.30	362.926 > 319.014	9226		3.071		na	
14	M4PFHpA	INT STD	8.30	366.926 > 321.979	32682		4.133		na	41.3
15	br-PFHxS	355-46-4	8.23	398.926 > 80.295	984		2.105		na	
16	L-PFHxS	355-46-4	8.46	398.926 > 80.295	3587		7.848		na	
17	PFHxS	355-46-4		398.926 > 80.295	4571		9.954		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	4842		4.138		na	41.4
19	br-PFOA	335-67-1	9.02	412.989 > 368.9	644		0.209		na	
20	L-PFOA	335-67-1	9.24	412.989 > 368.9	7300		2.372		na	
21	M2PFOA	INT STD	9.24	415.032 > 369.968	72327		11.688		na	116.9
22	PFOA	335-67-1		412.989 > 368.9	7944		2.582		na	
23	M8PFOA	INT STD	9.24	420.989 > 375.979	29687		4.226		na	42.3
24	6:2FTS	27619-97-2	9.19	426.989 > 406.921	2011		13.829		na	
25	M2-6:2FTS	INT STD	9.20	428.989 > 408.917	1535		2.478		na	24.8
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1	9.98	462.989 > 418.931	2611		1.183		na	
28	M9PFNA	INT STD	9.98	472.053 > 426.947	26476		4.011		na	40.1
29	br-PFOS	1763-23-1	9.79	498.989 > 80.294	388		0.703		na	
30	L-PFOS	1763-23-1	10.03	498.989 > 80.294	362		0.929		na	
31	PFOS	1763-23-1		498.989 > 80.294	749		1.632		na	
32	M4PFOS	INT STD	10.03	503.032 > 80.306	7750		12.781		na	127.8
33	M8PFOS	INT STD	10.03	507.053 > 80.294	3979		4.205		na	42.0
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.60	515.053 > 469.934	46748		11.150		na	111.5
36	M6PFDA	INT STD	10.60	519.053 > 473.931	24870		4.406		na	44.1
37	8:2FTS	39108-34-4	10.59	526.989 > 506.946	8		0.101		na	
38	M2-8:2FTS	INT STD	10.59	529.117 > 80.953	236		2.472		na	24.7
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

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ID: L1808174-02
Name: I6067
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	2007		2.781		na	27.8
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.13	570.053 > 524.923	20781		4.499		na	45.0
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.06	506.053 > 78.286	10313		4.141		na	41.4
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	1824		2.667		na	26.7
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.59	614.989 > 569.92	17865		3.738		na	37.4
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	13527		3.600		na	36.0

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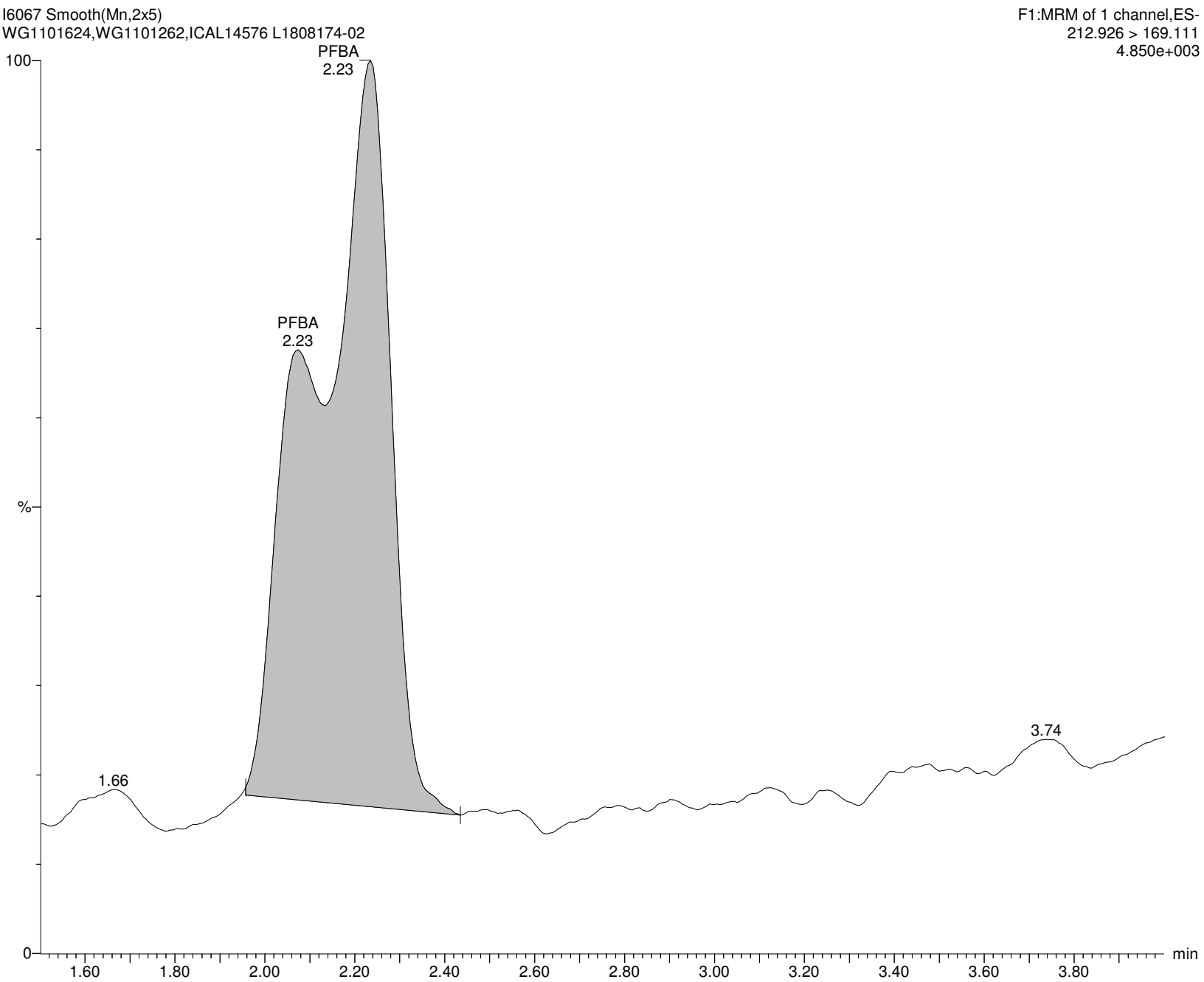

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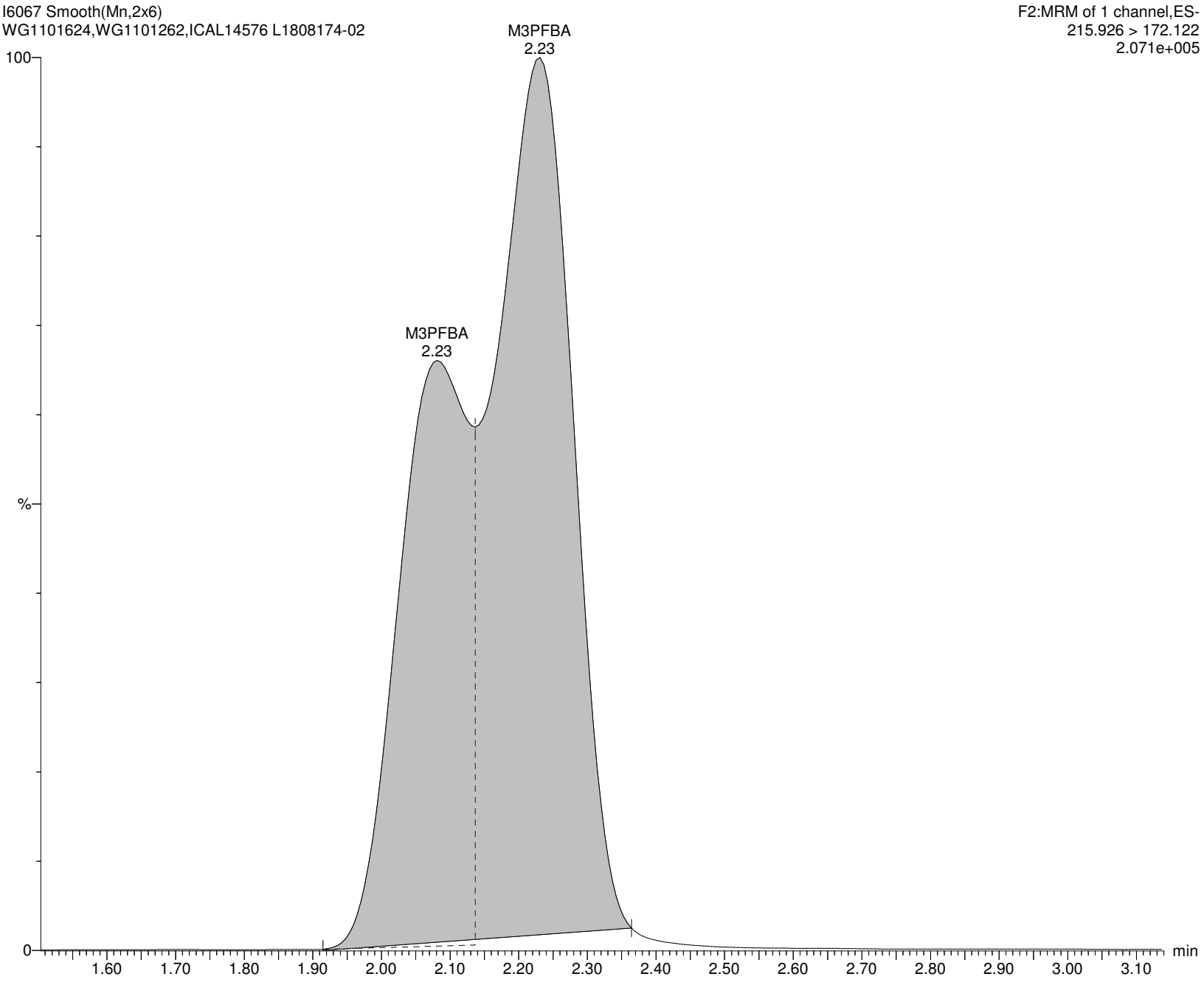

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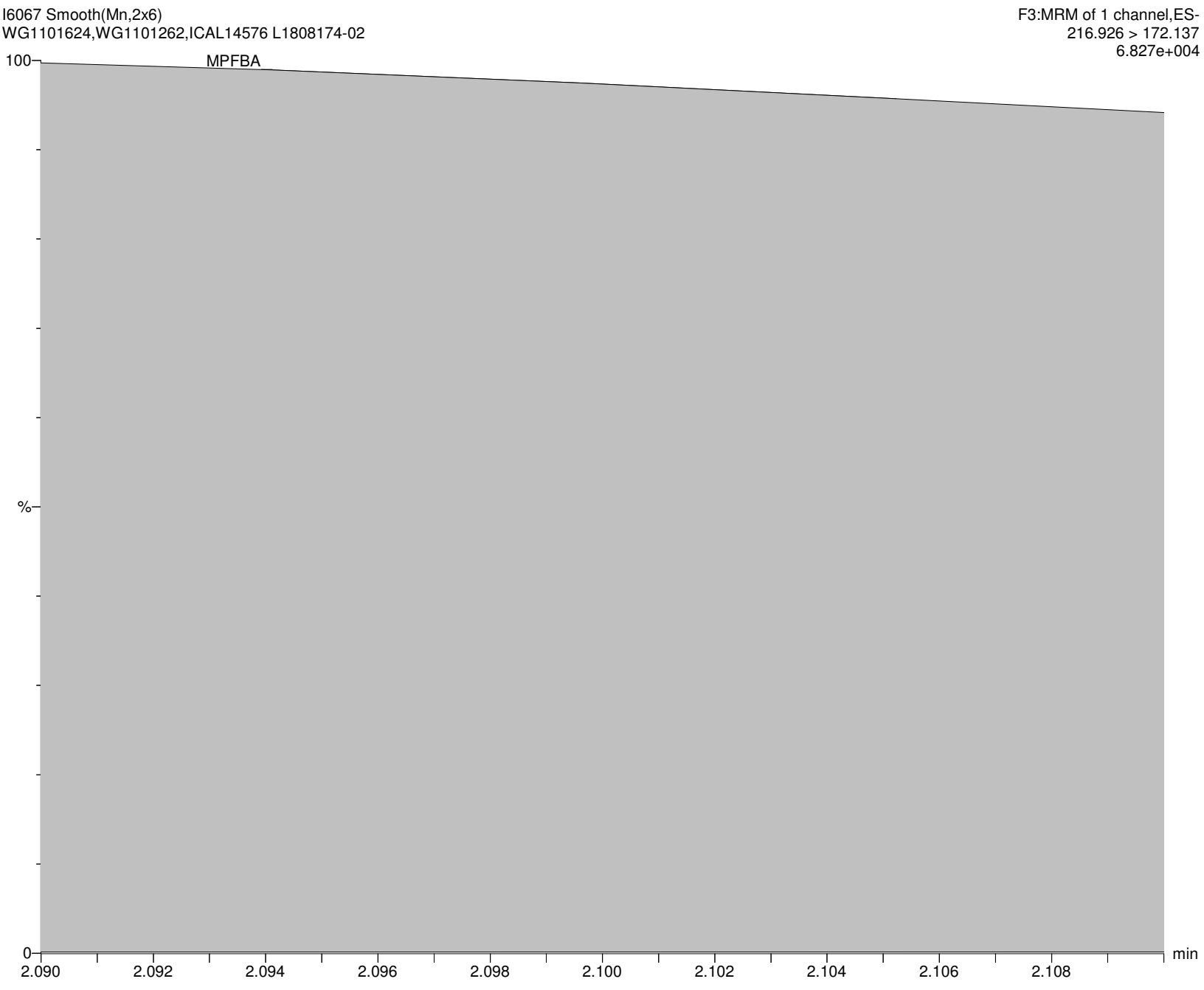

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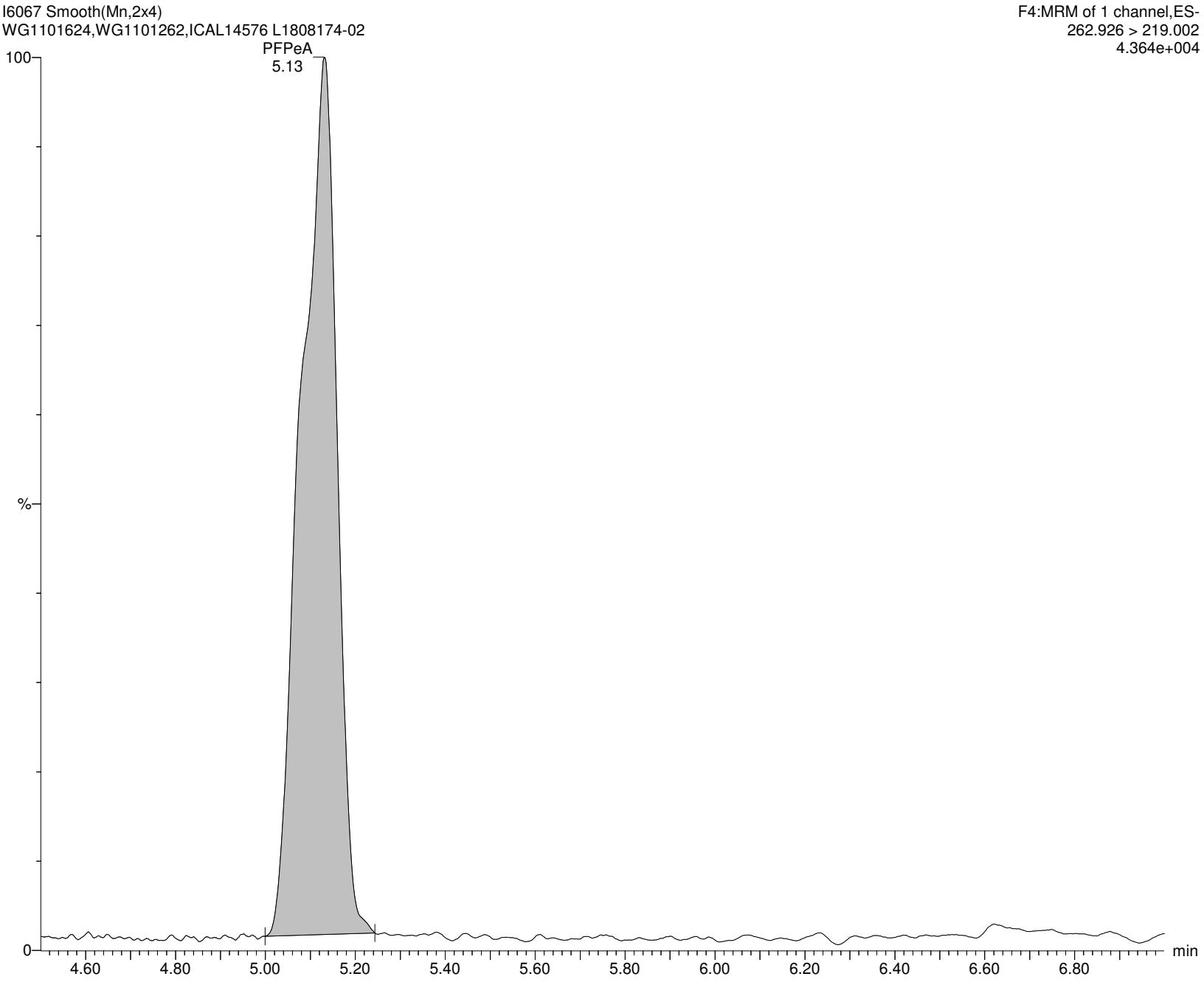

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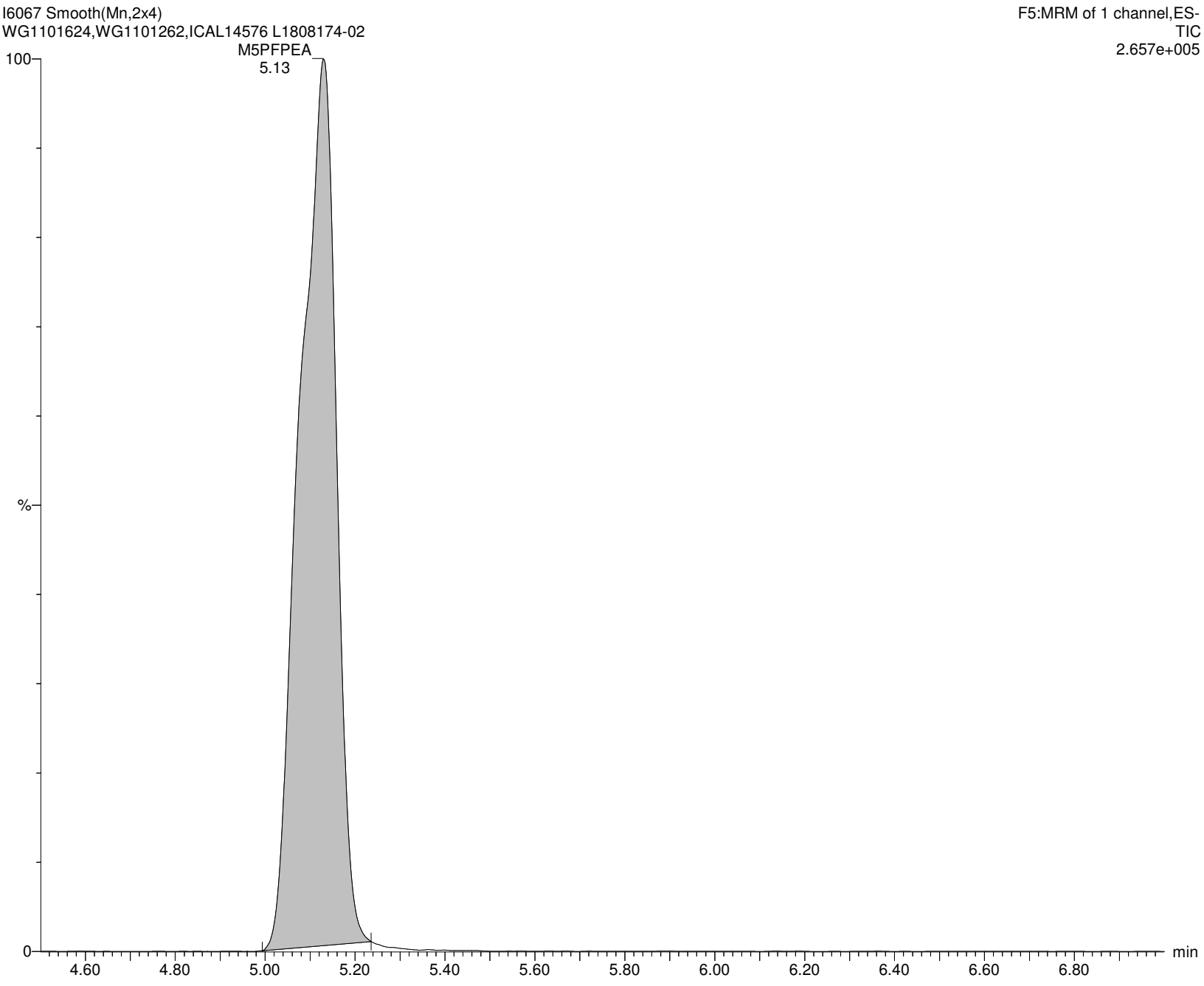
M5PFPEA



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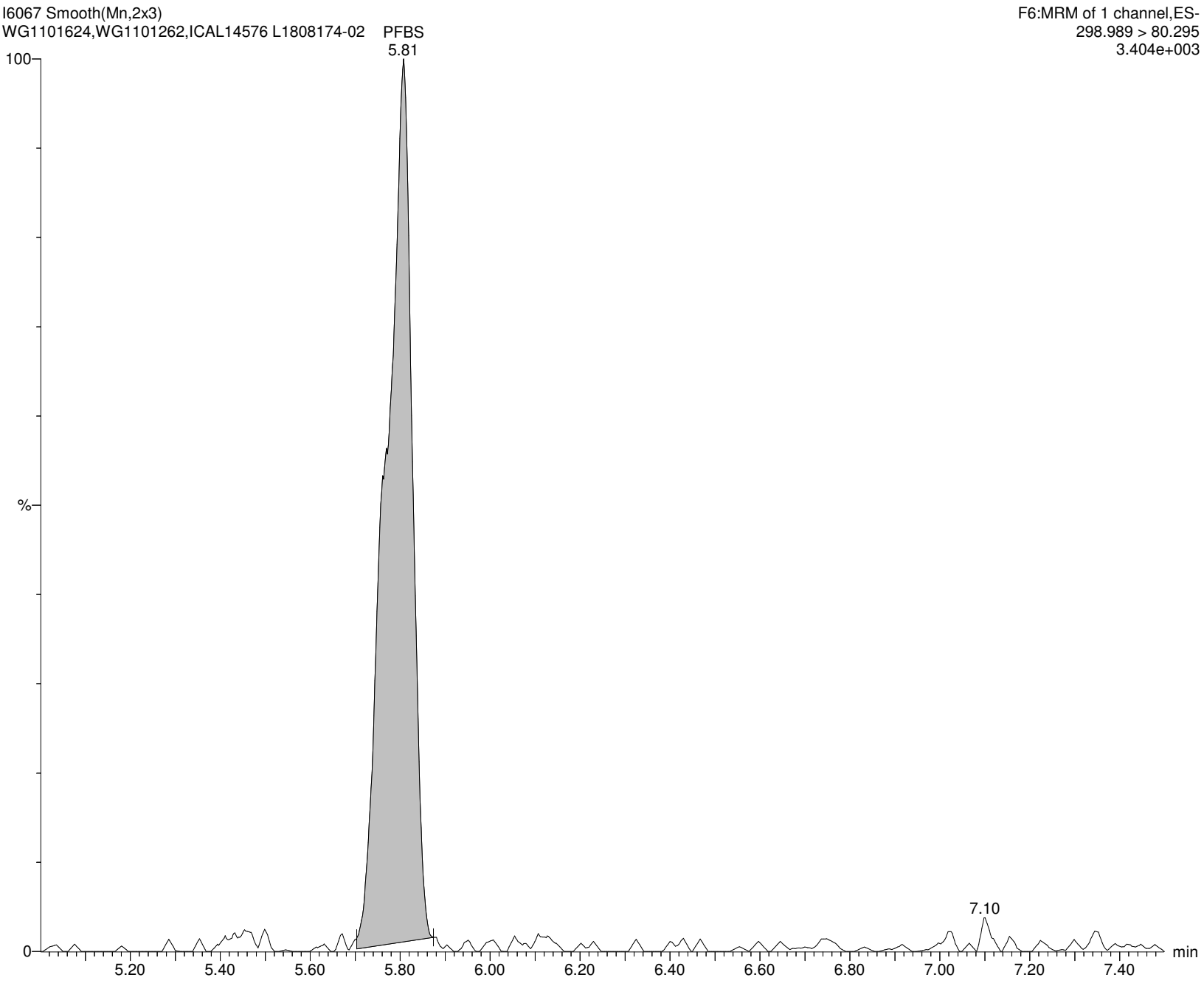

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Vial: 2:C,2
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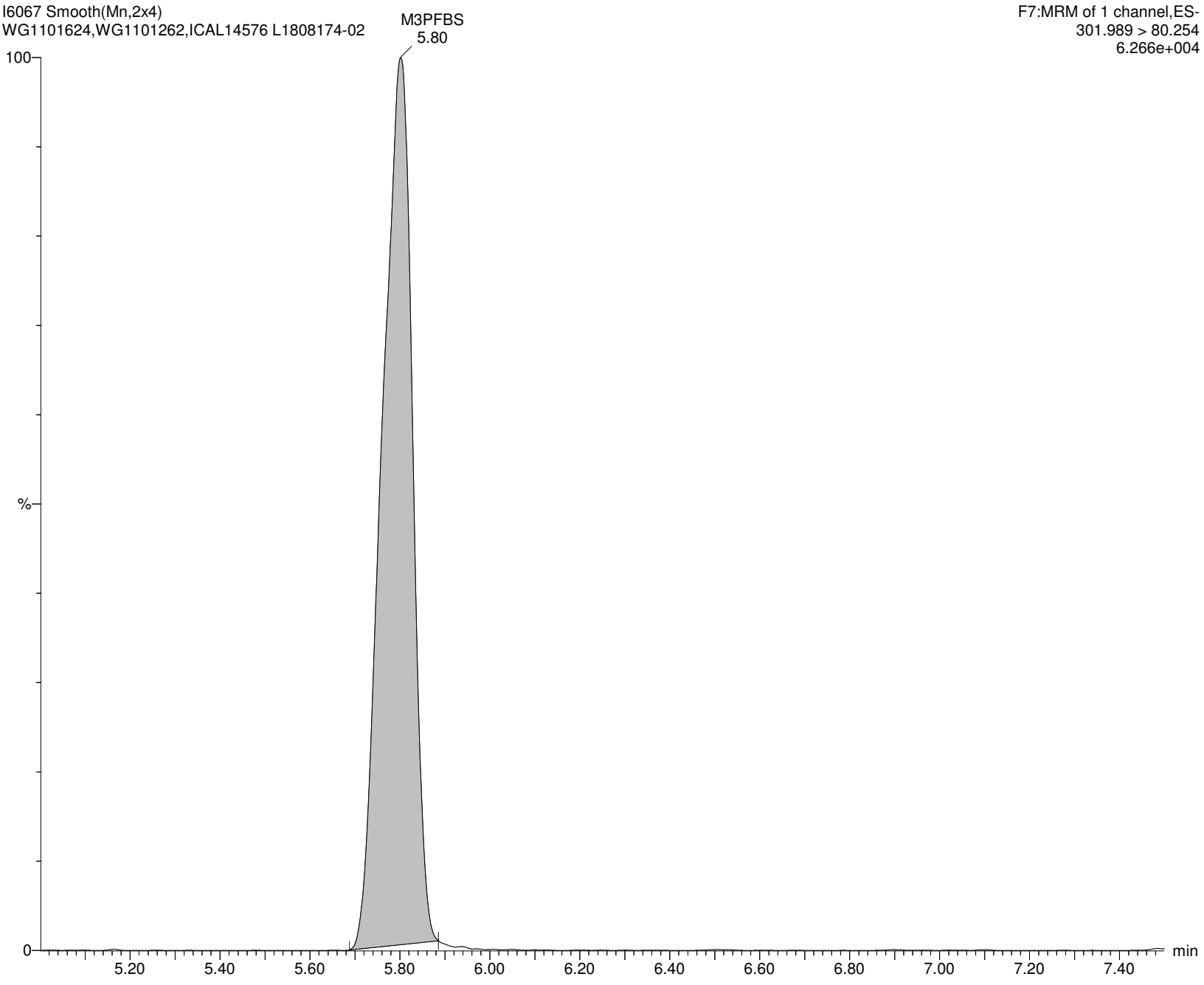

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

Name: I6067
ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
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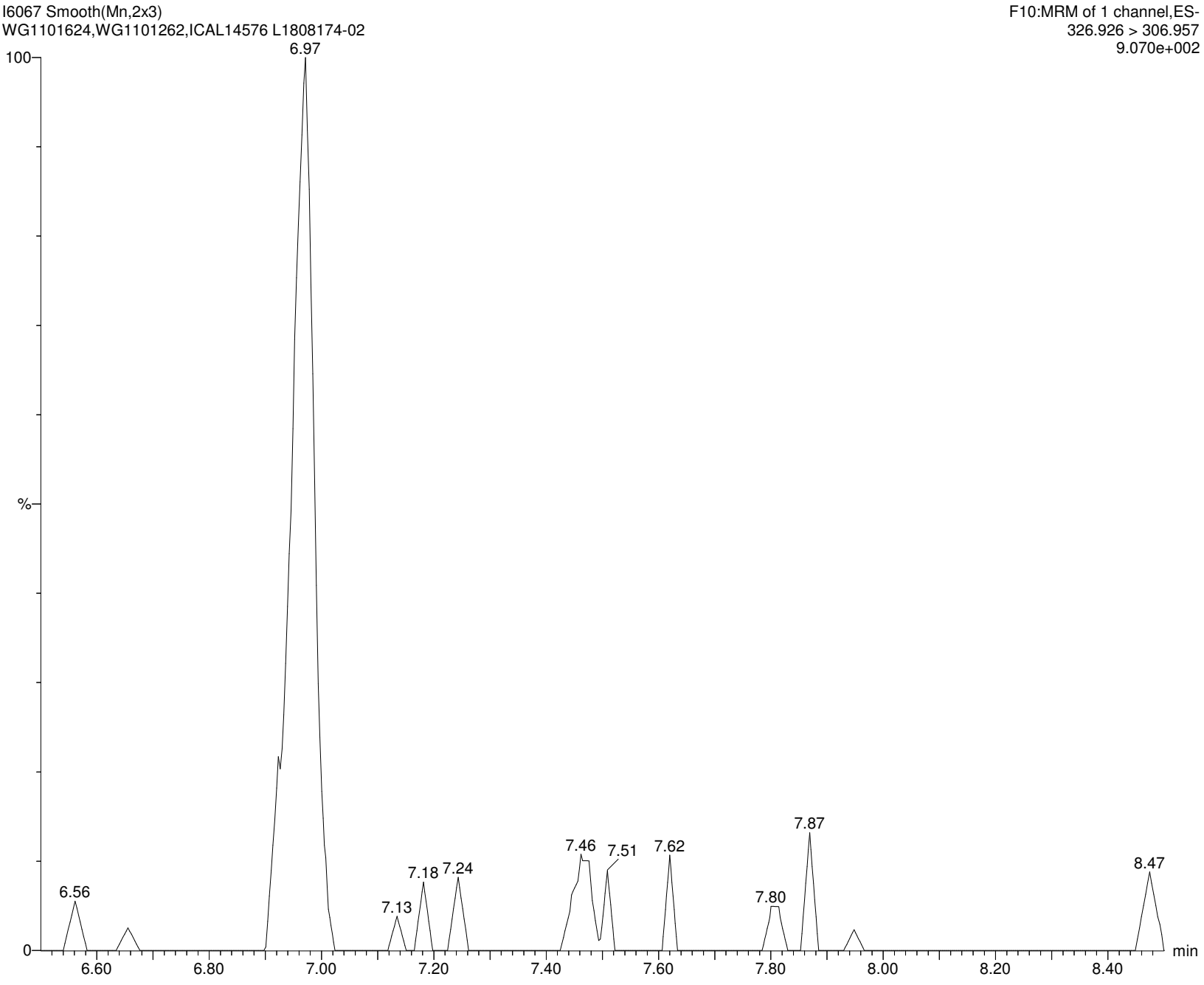
4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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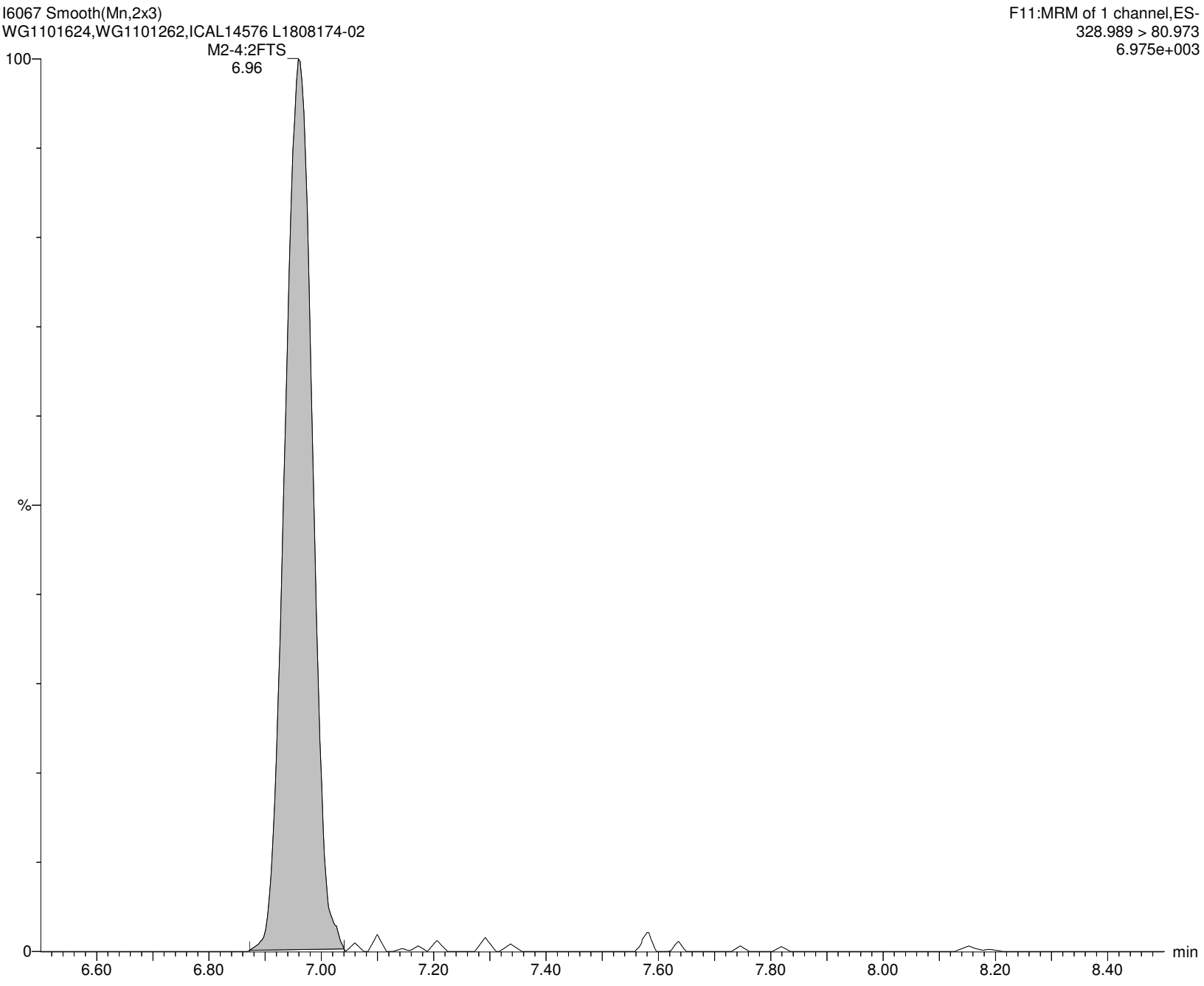

all concentration units in (ng/mL)

Alpha Analytical Inc.
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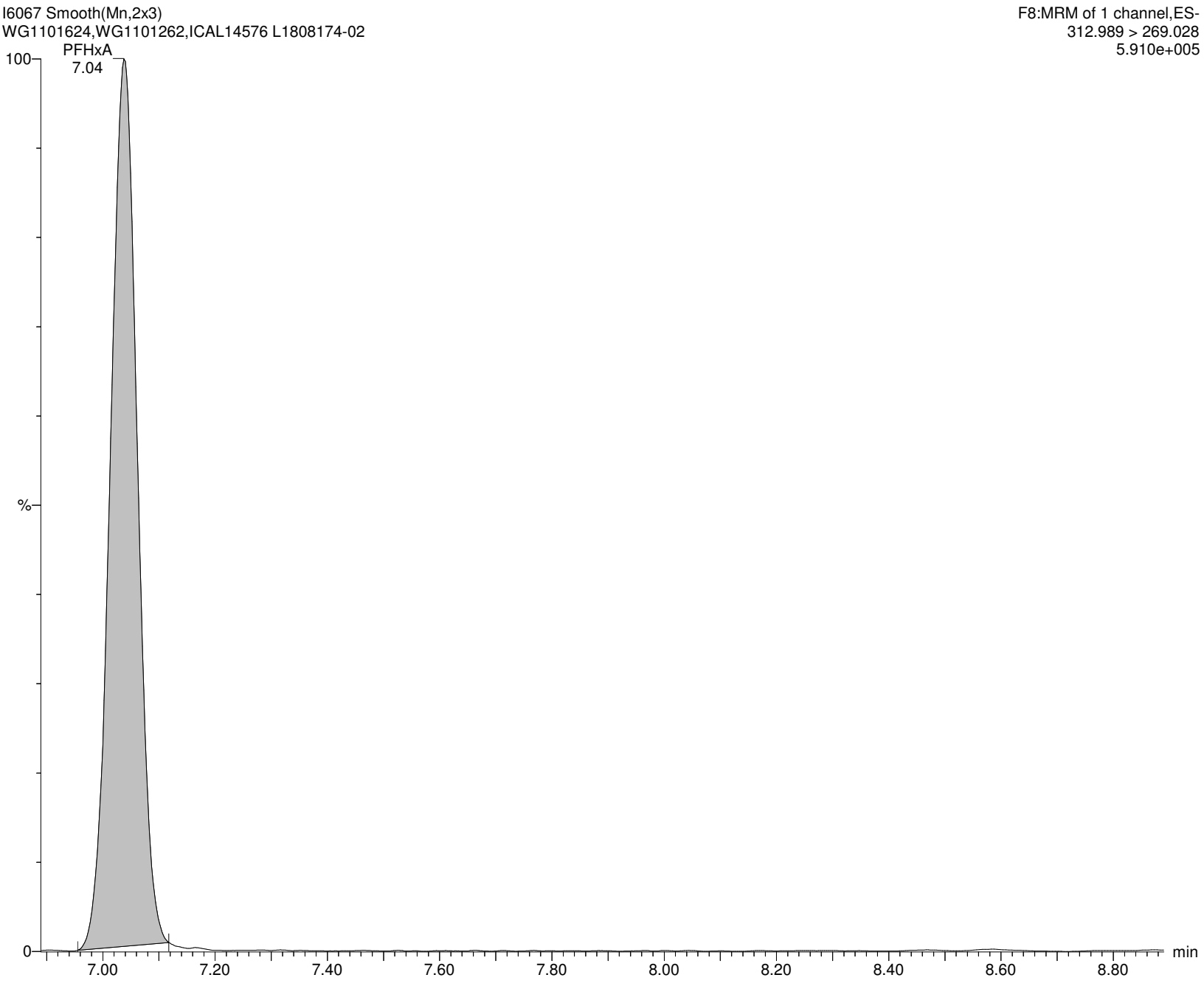

all concentration units in (ng/mL)

Alpha Analytical Inc.
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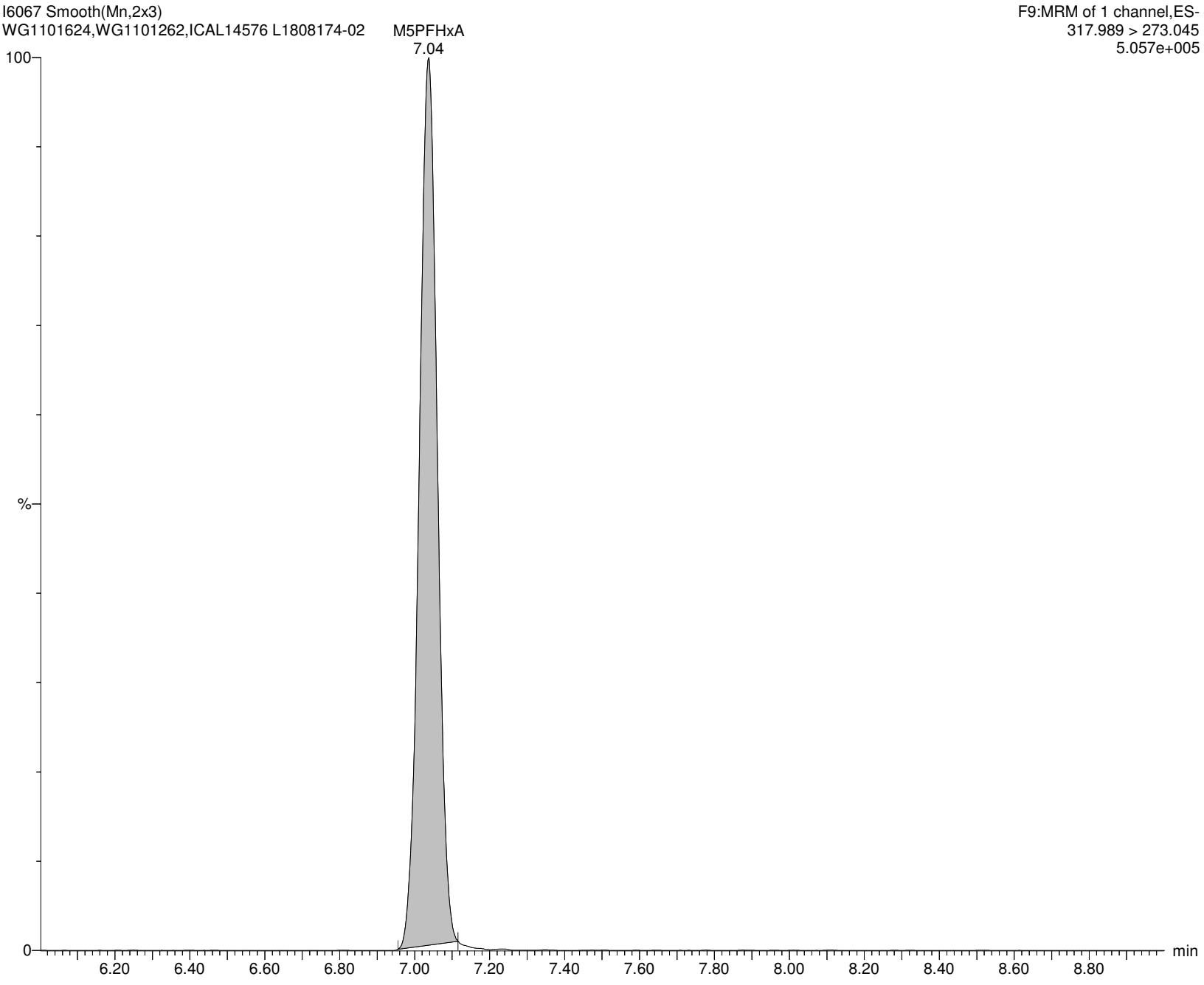

all concentration units in (ng/mL)

Alpha Analytical Inc.
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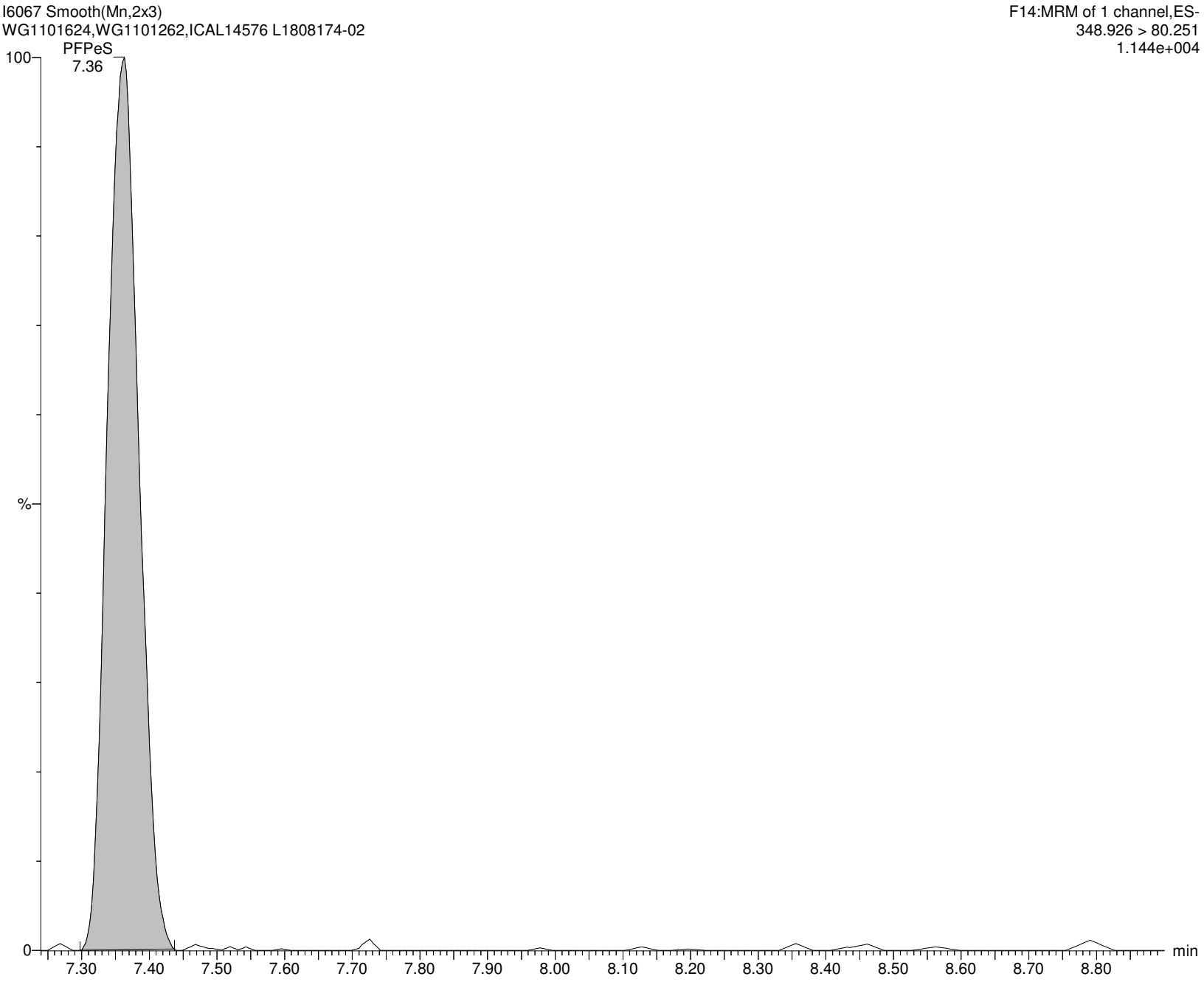

all concentration units in (ng/mL)

Alpha Analytical Inc.
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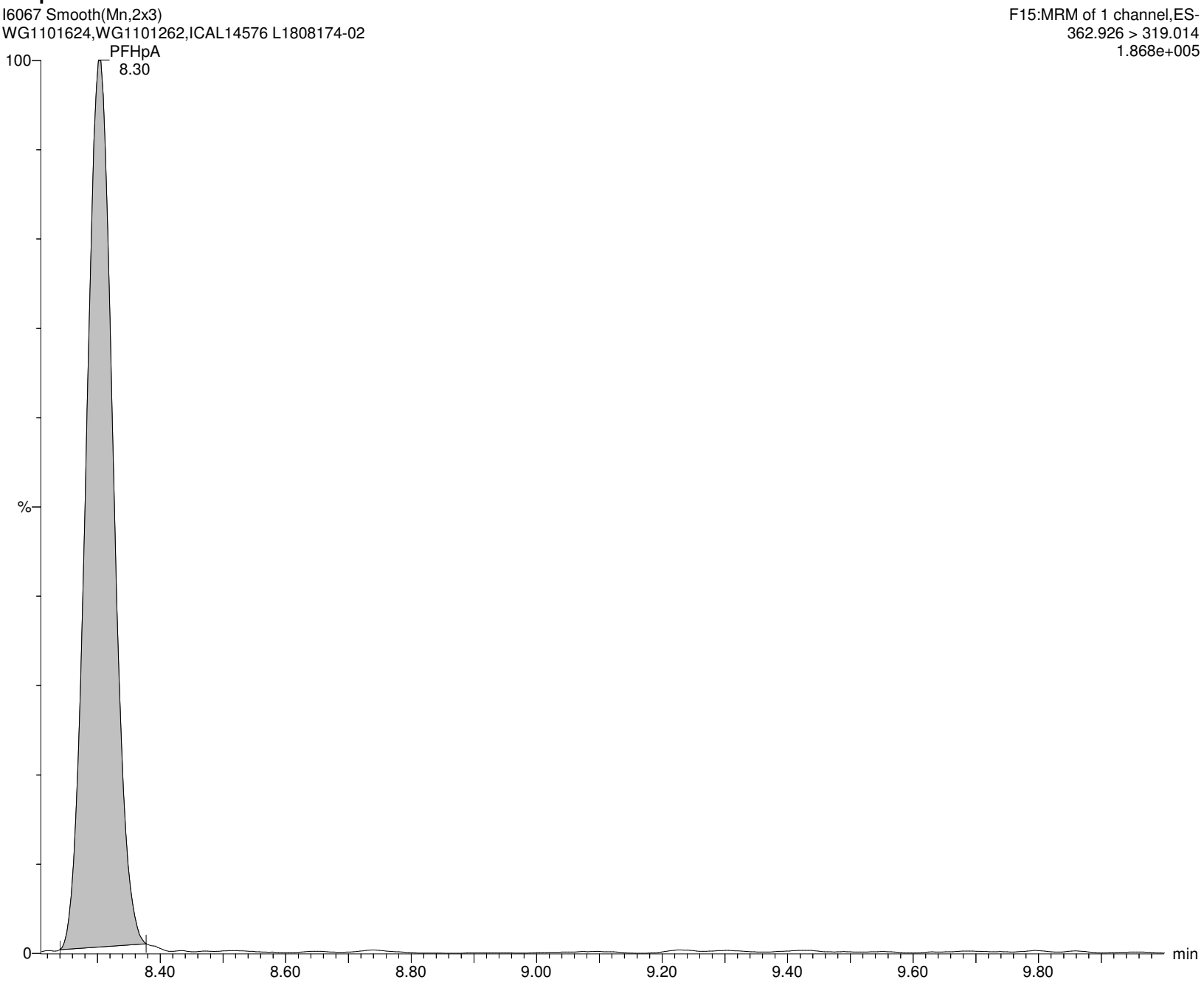

all concentration units in (ng/mL)

Alpha Analytical Inc.
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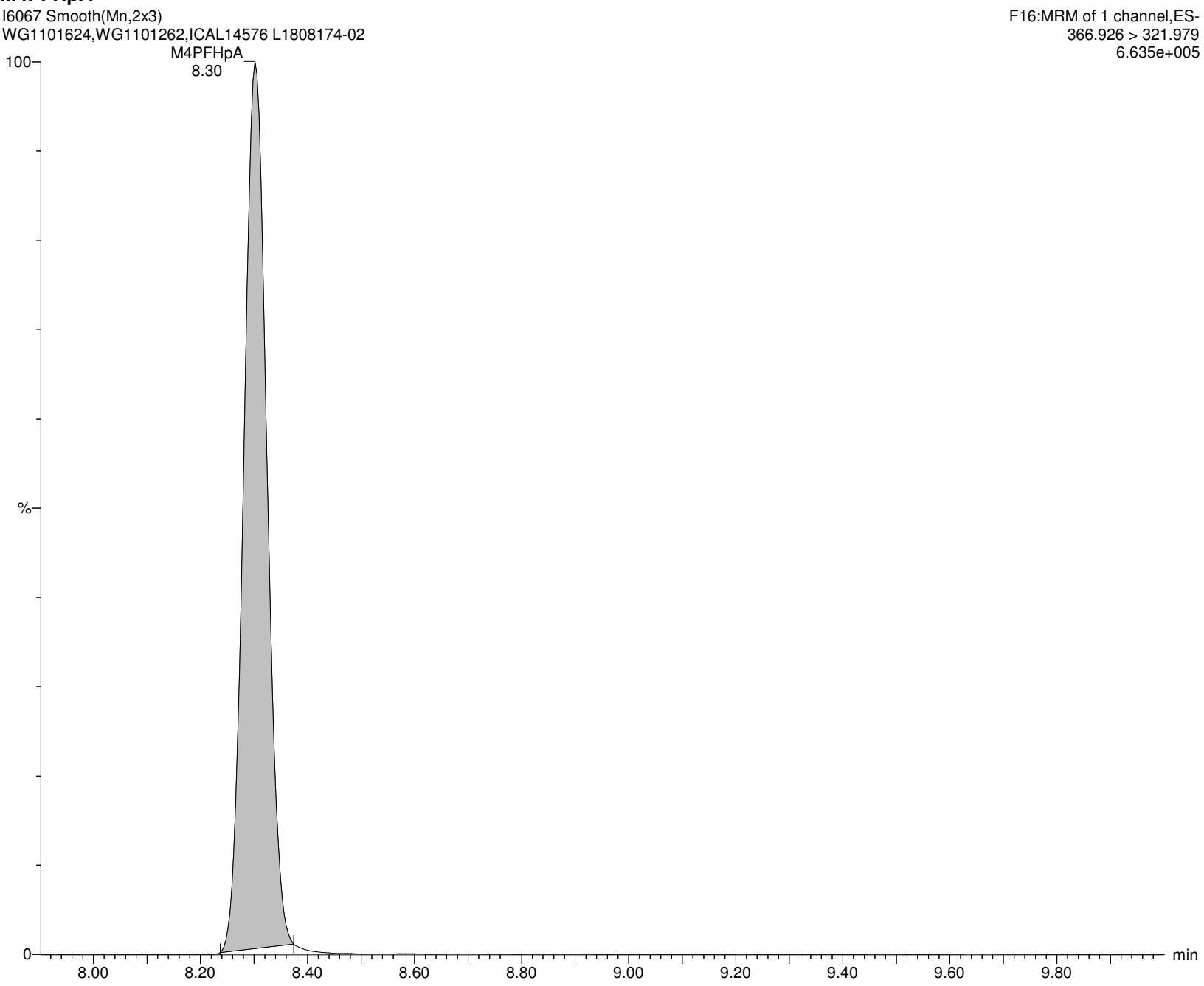

all concentration units in (ng/mL)

Alpha Analytical Inc.
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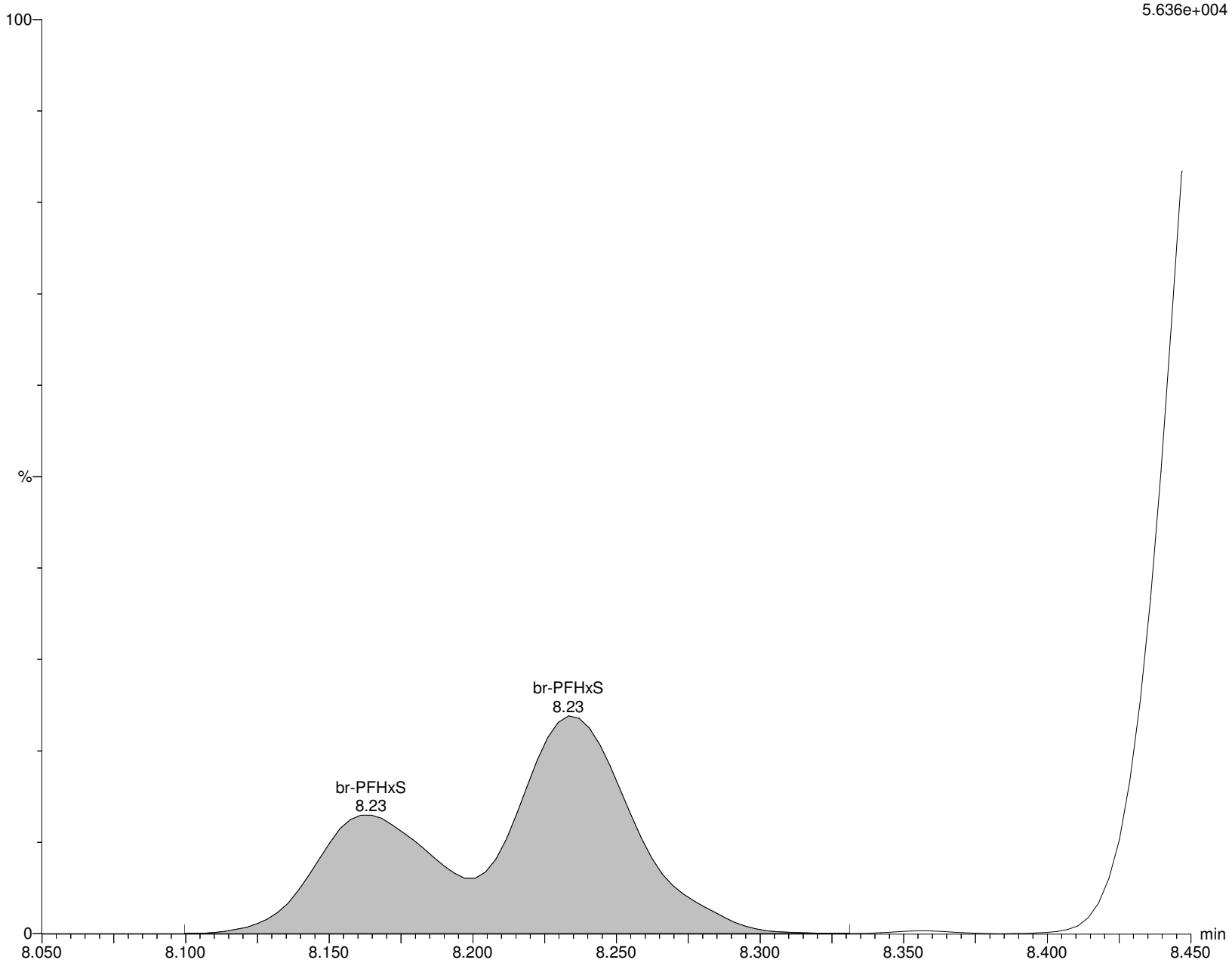

all concentration units in (ng/mL)

Alpha Analytical Inc.
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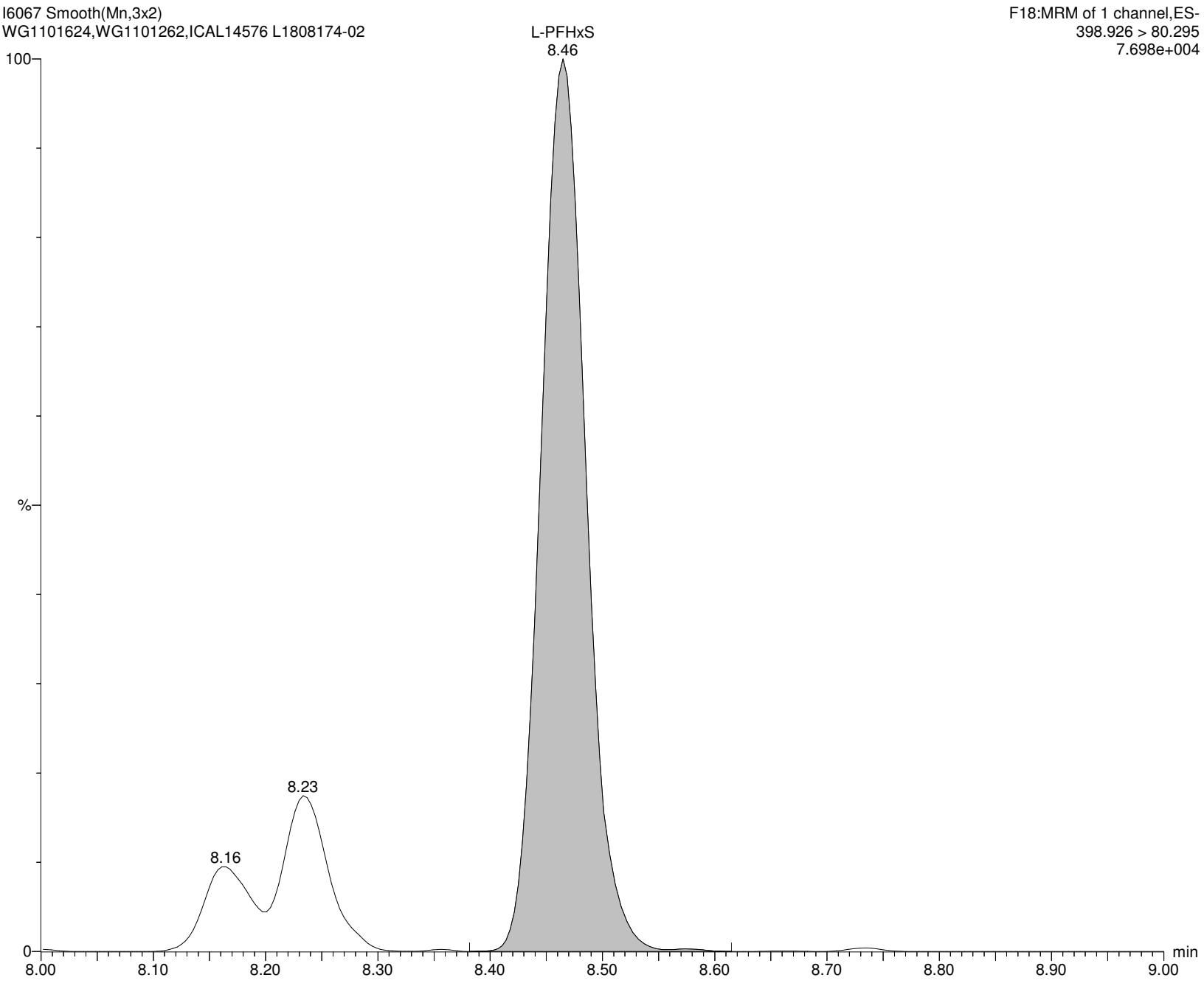

all concentration units in (ng/mL)

Alpha Analytical Inc.
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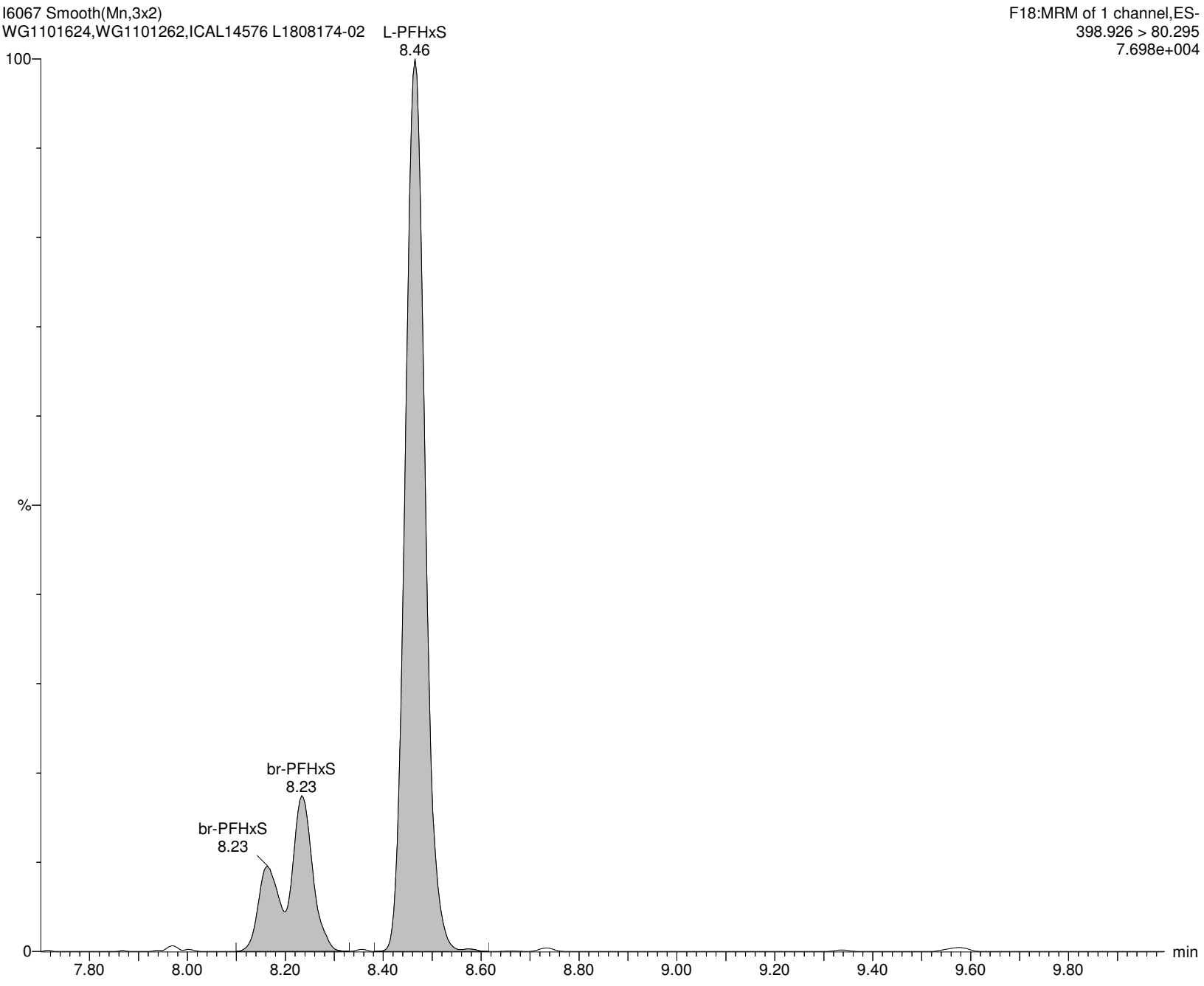

all concentration units in (ng/mL)

Alpha Analytical Inc.
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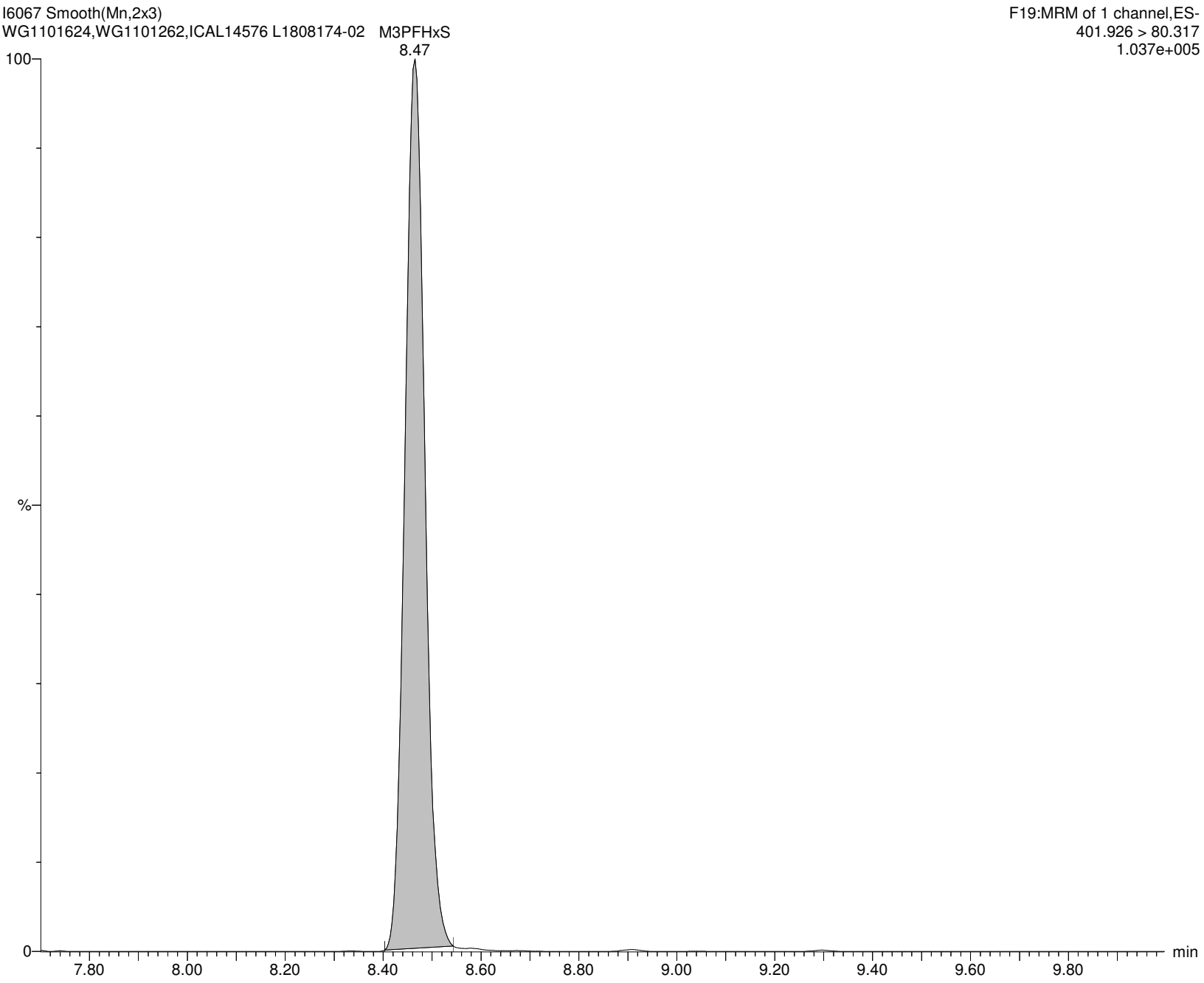

all concentration units in (ng/mL)

Alpha Analytical Inc.
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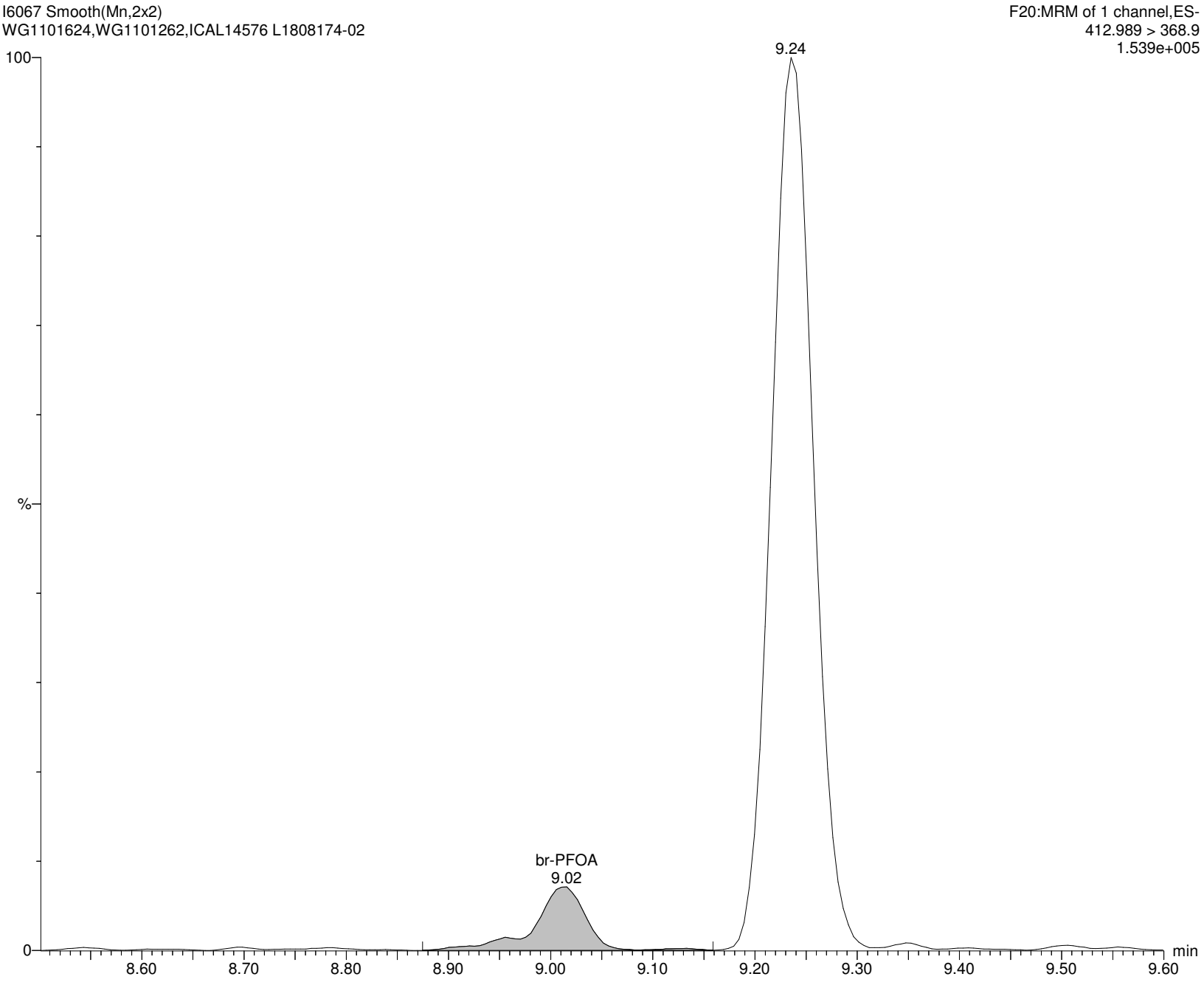

all concentration units in (ng/mL)

Alpha Analytical Inc.
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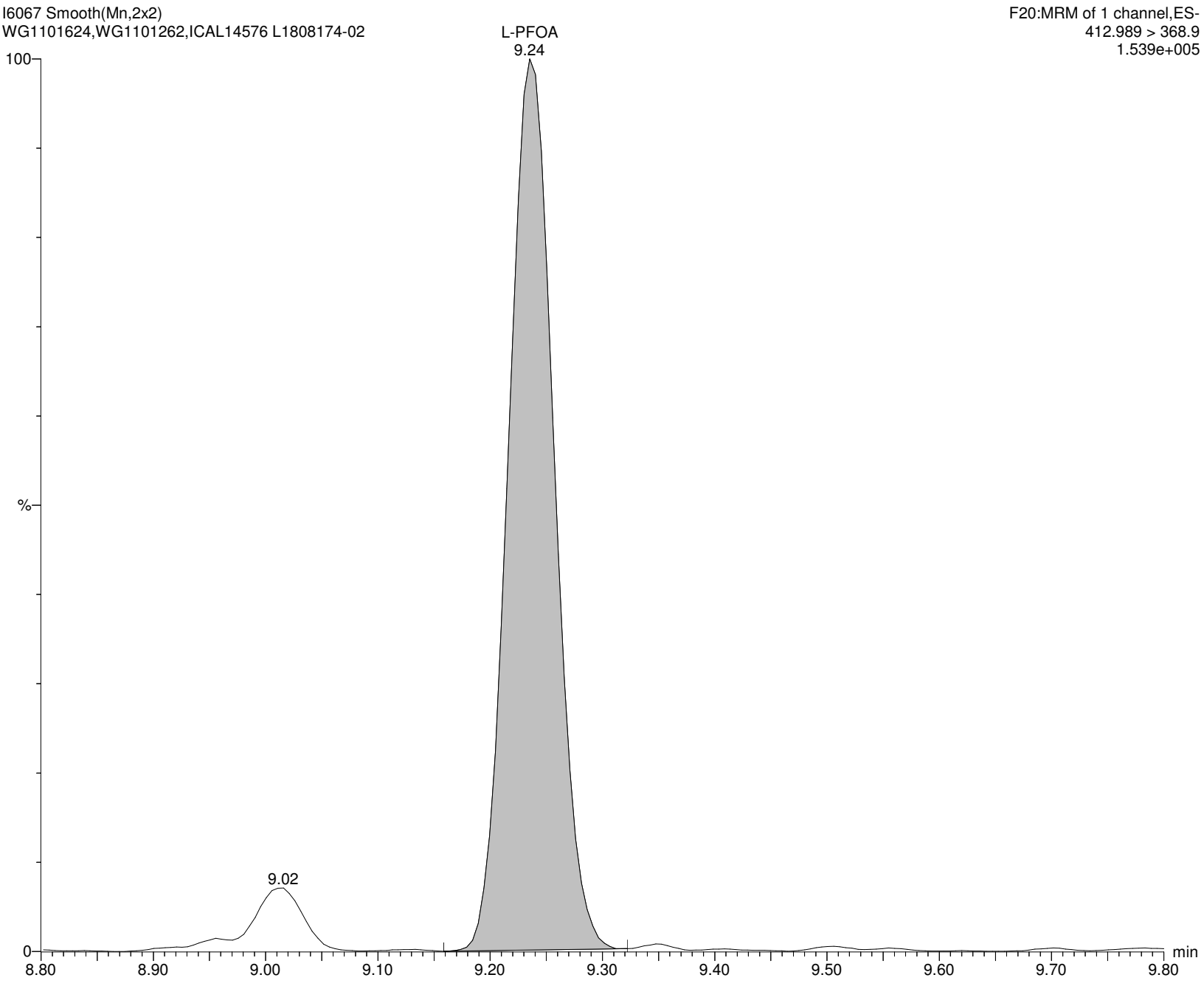

all concentration units in (ng/mL)

Alpha Analytical Inc.
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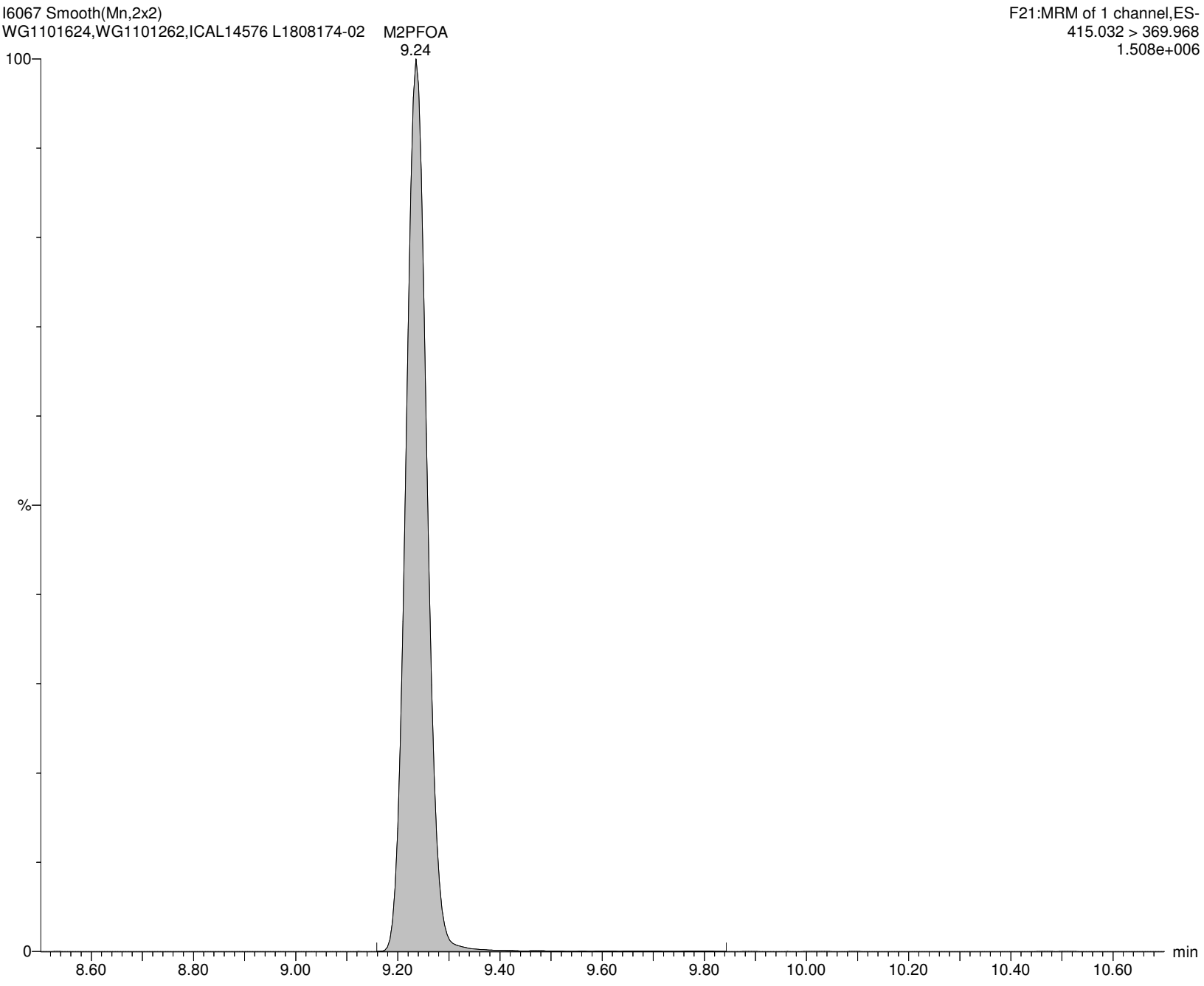

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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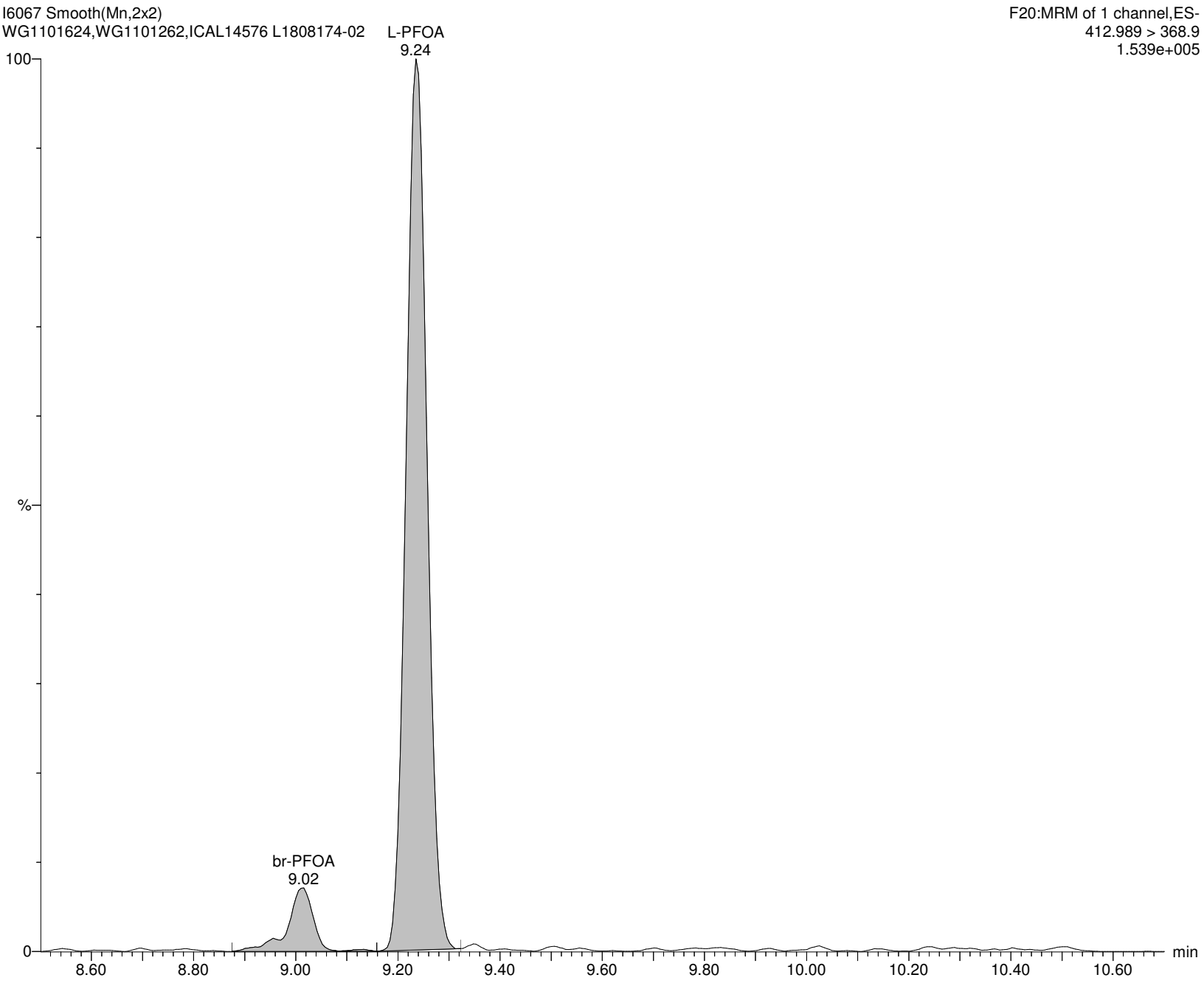

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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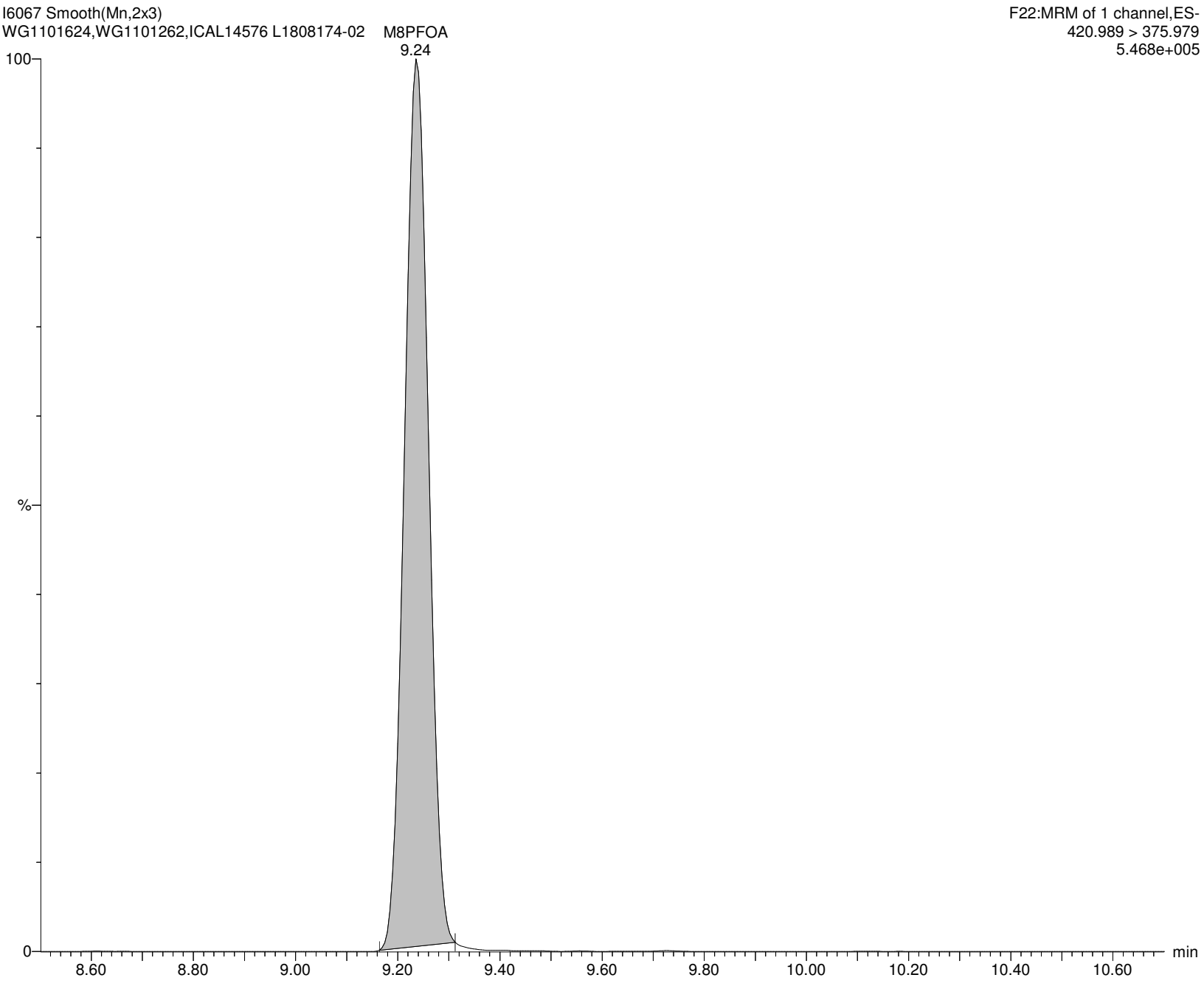

all concentration units in (ng/mL)

Alpha Analytical Inc.
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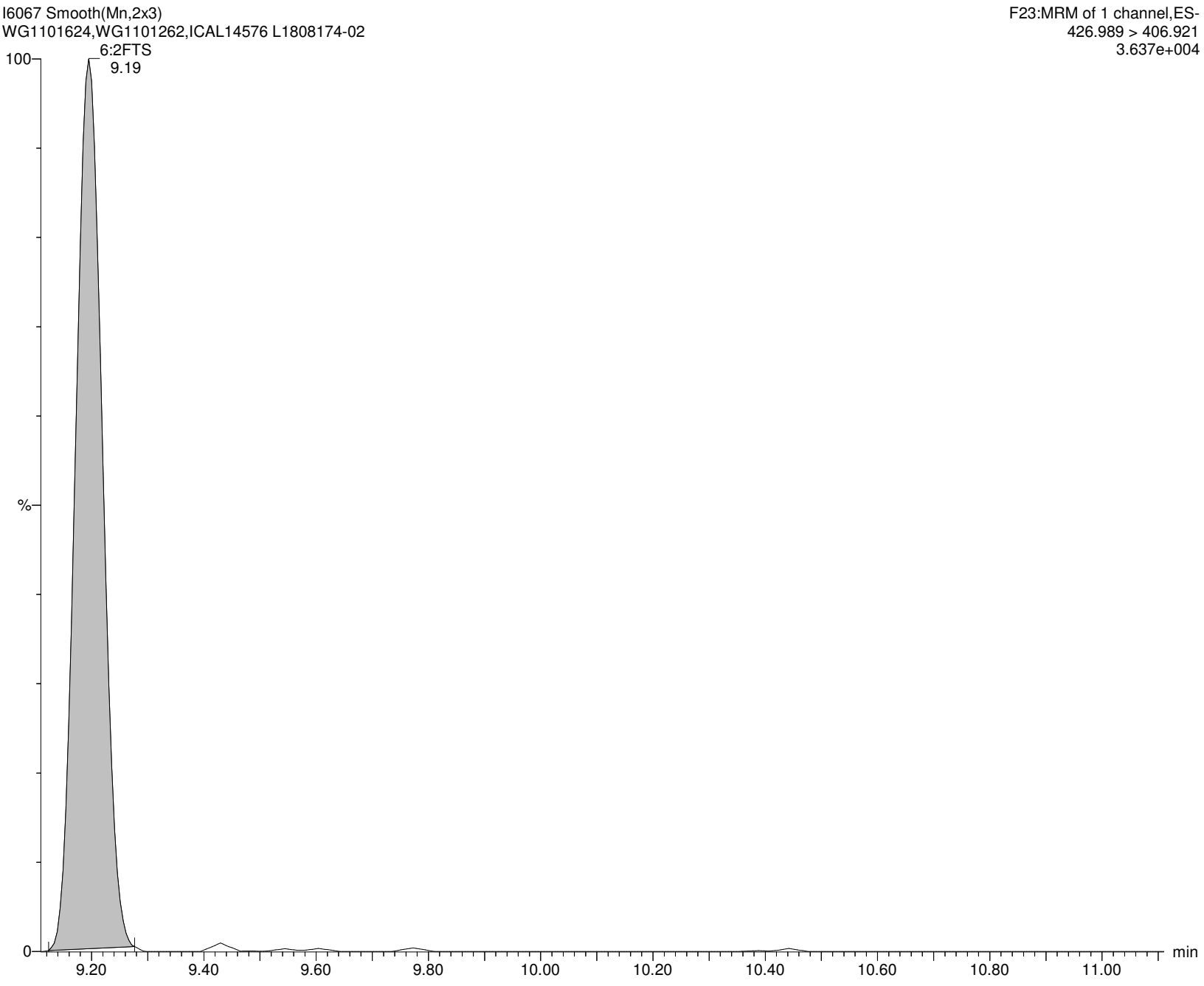

all concentration units in (ng/mL)

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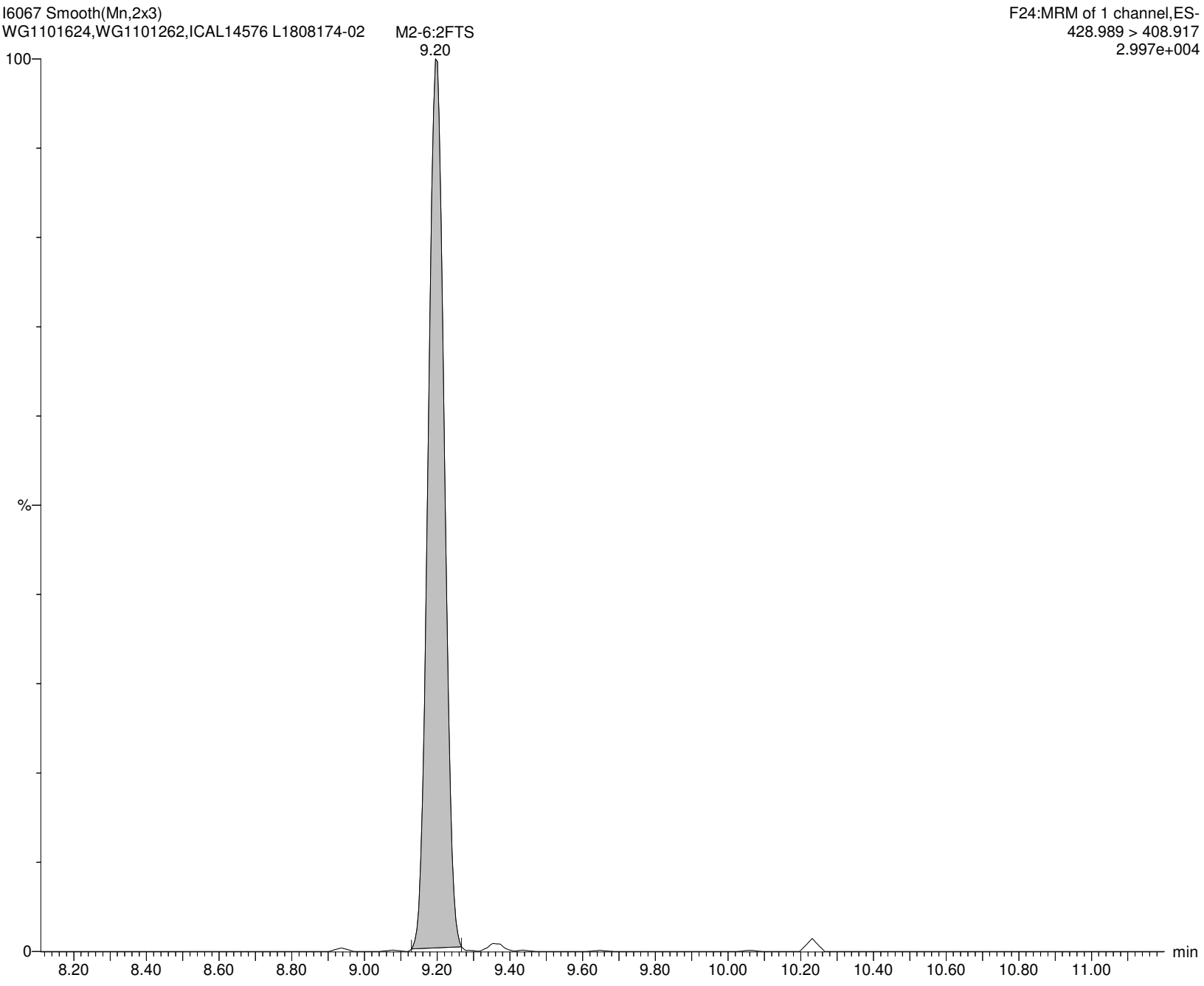
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

Name: I6067
ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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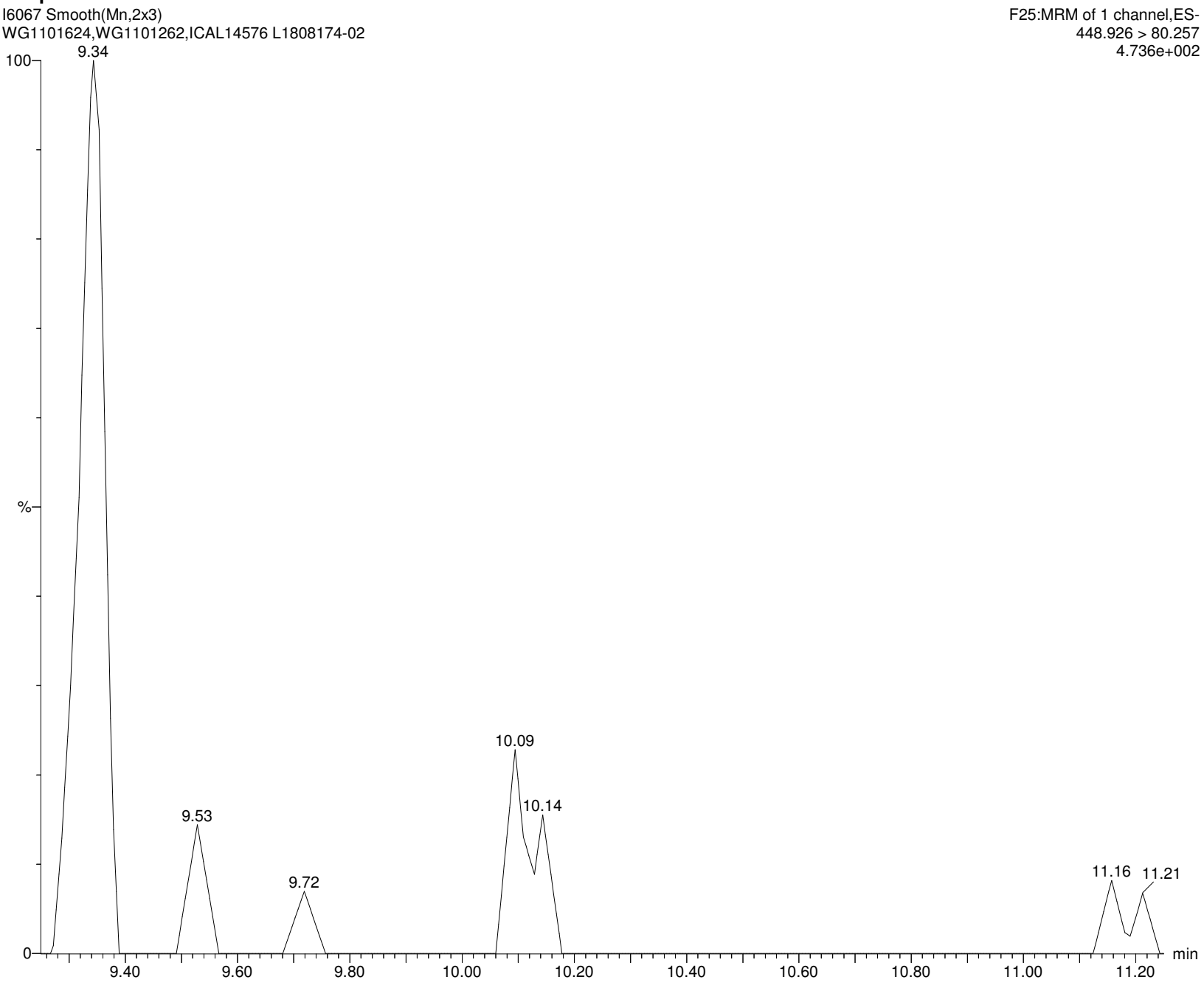

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

Name: I6067
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Date: 29-Mar-2018
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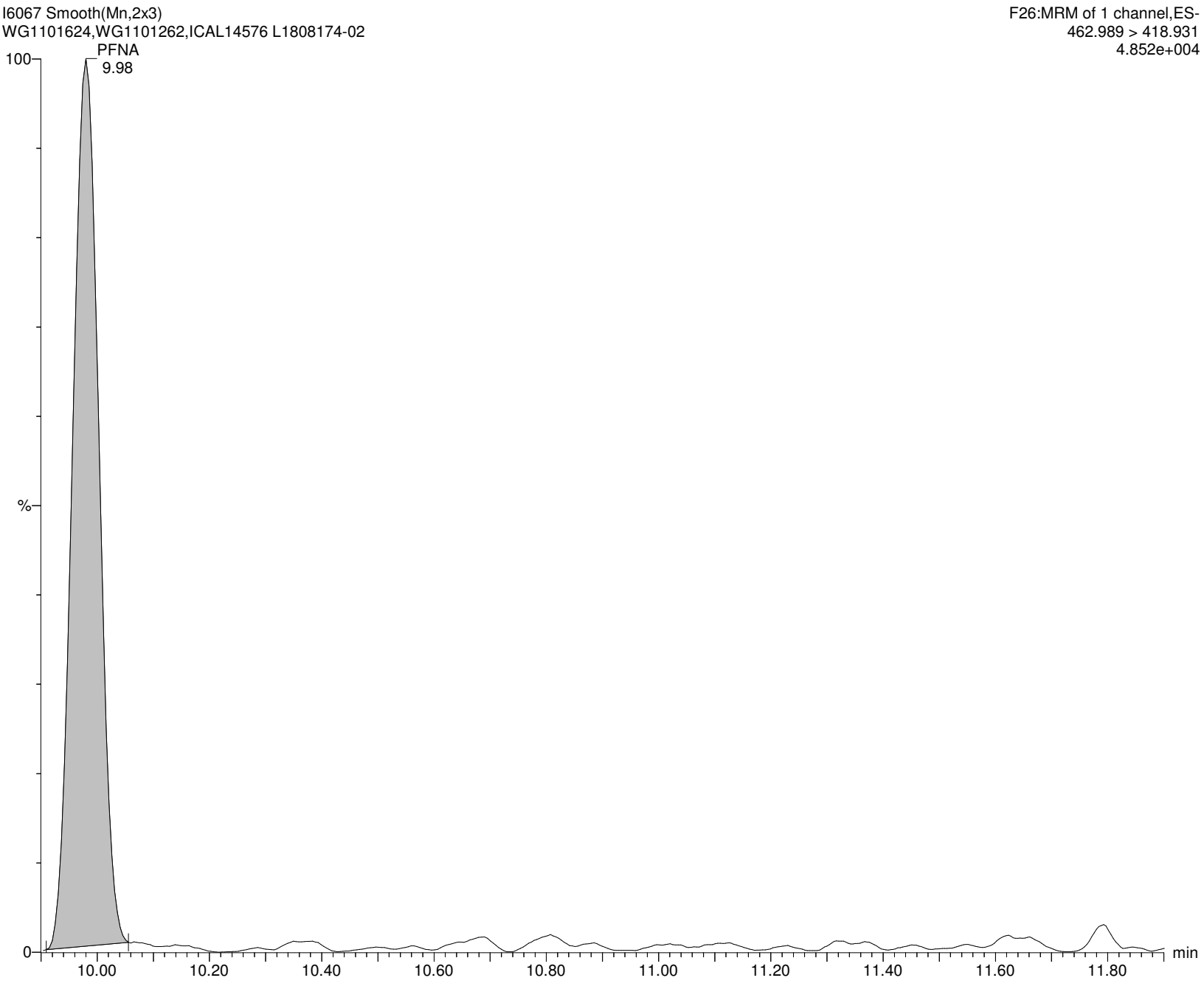

all concentration units in (ng/mL)

Alpha Analytical Inc.
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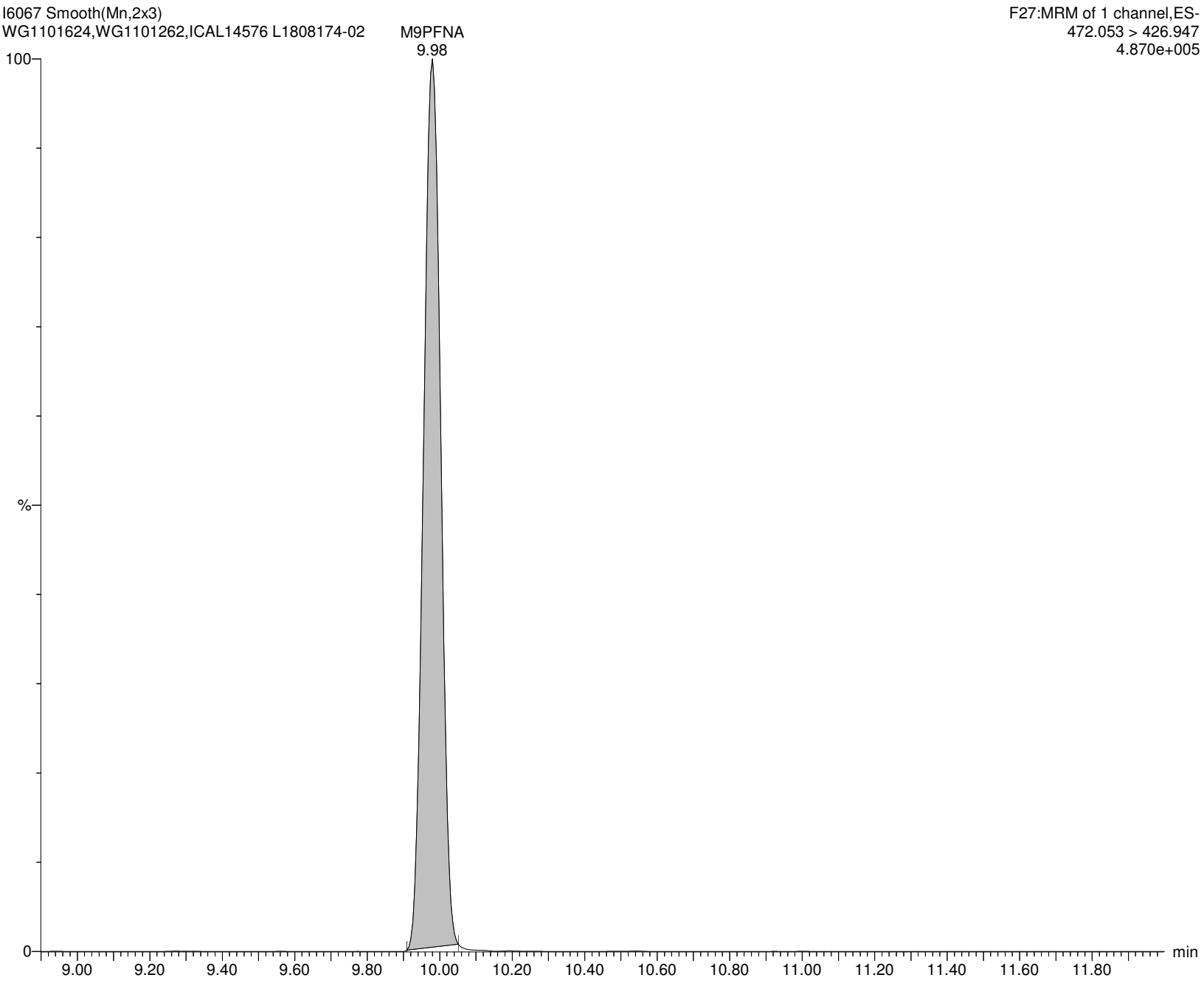

all concentration units in (ng/mL)

Alpha Analytical Inc.
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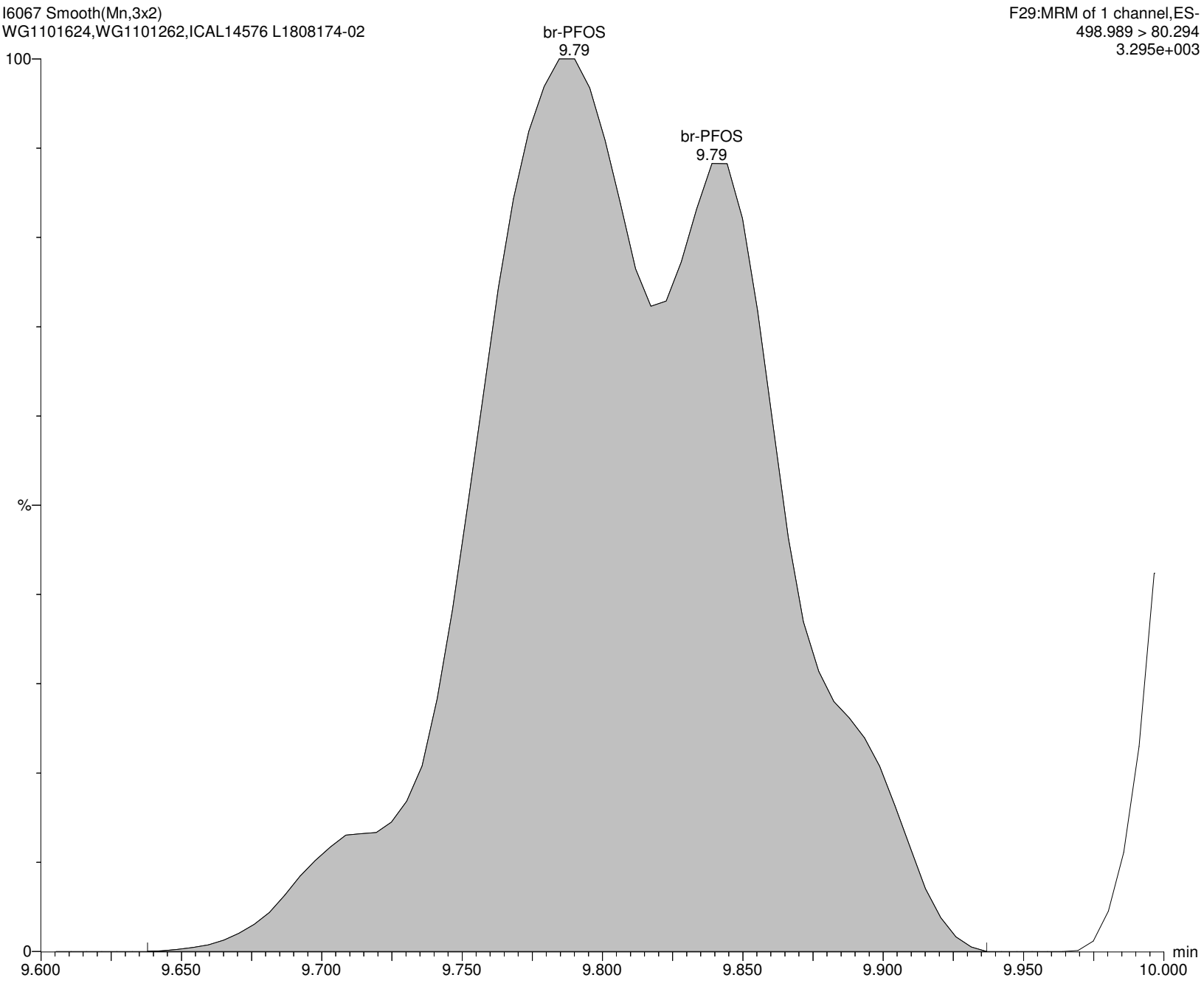

all concentration units in (ng/mL)

Alpha Analytical Inc.
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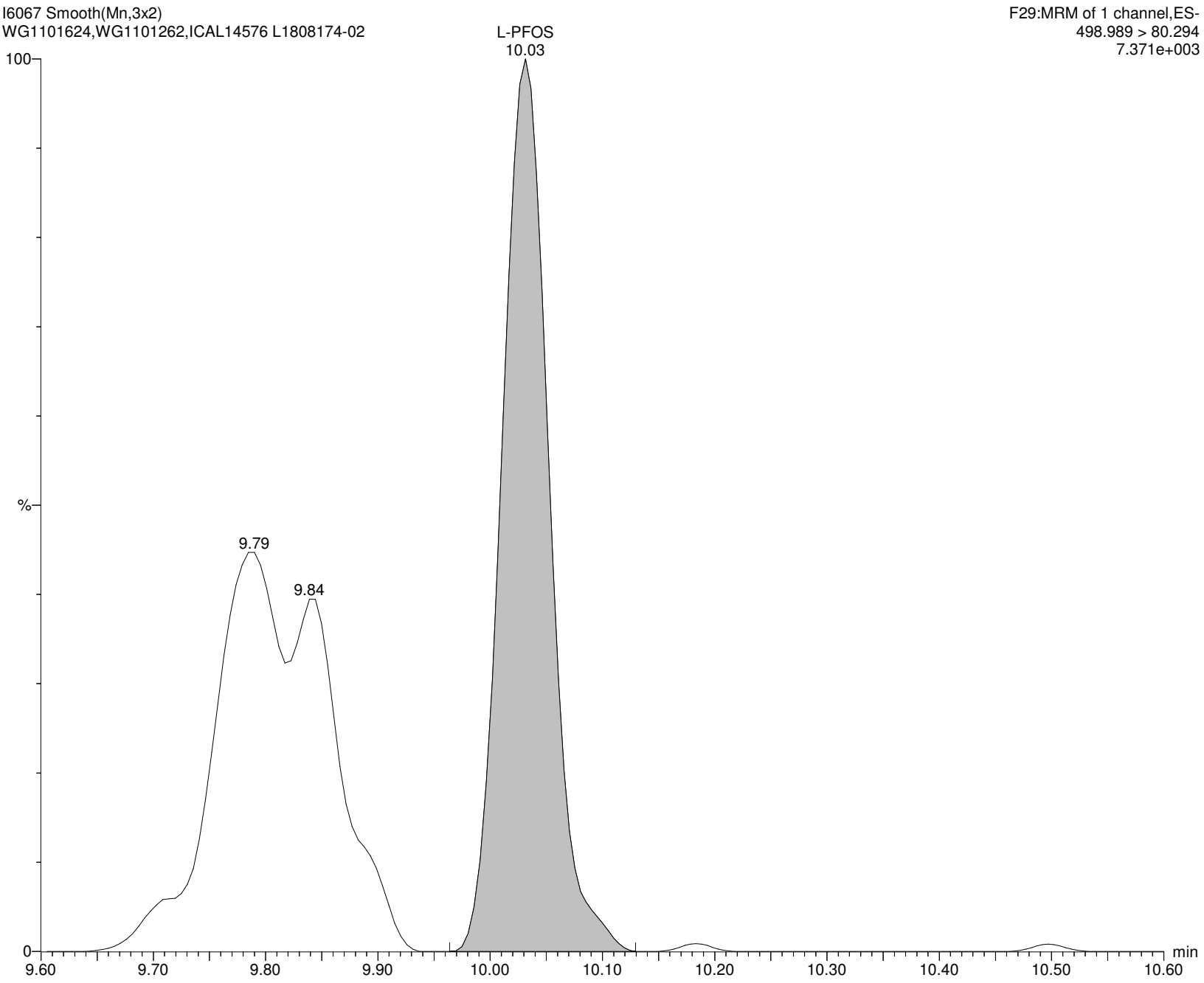

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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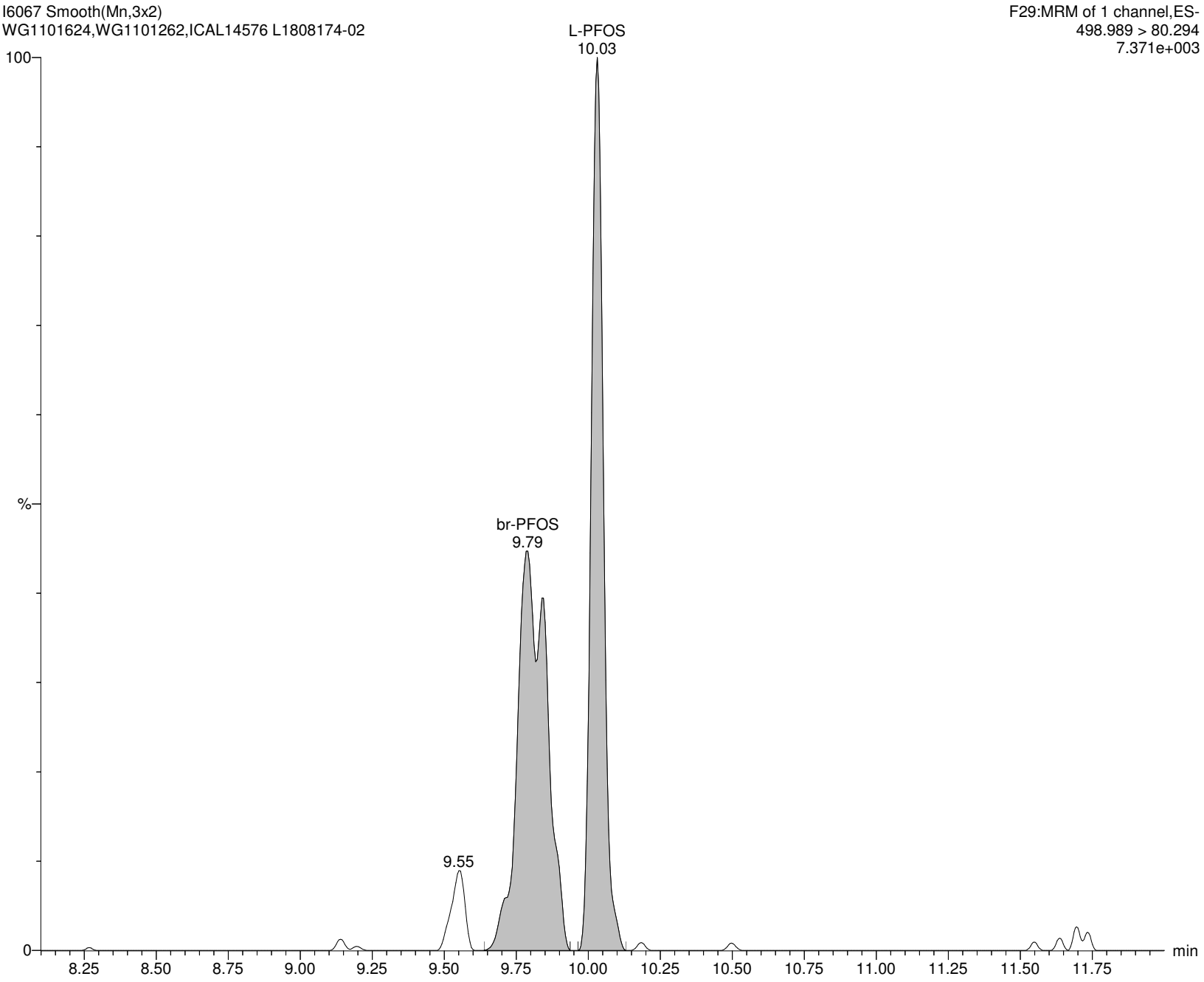

all concentration units in (ng/mL)

Alpha Analytical Inc.
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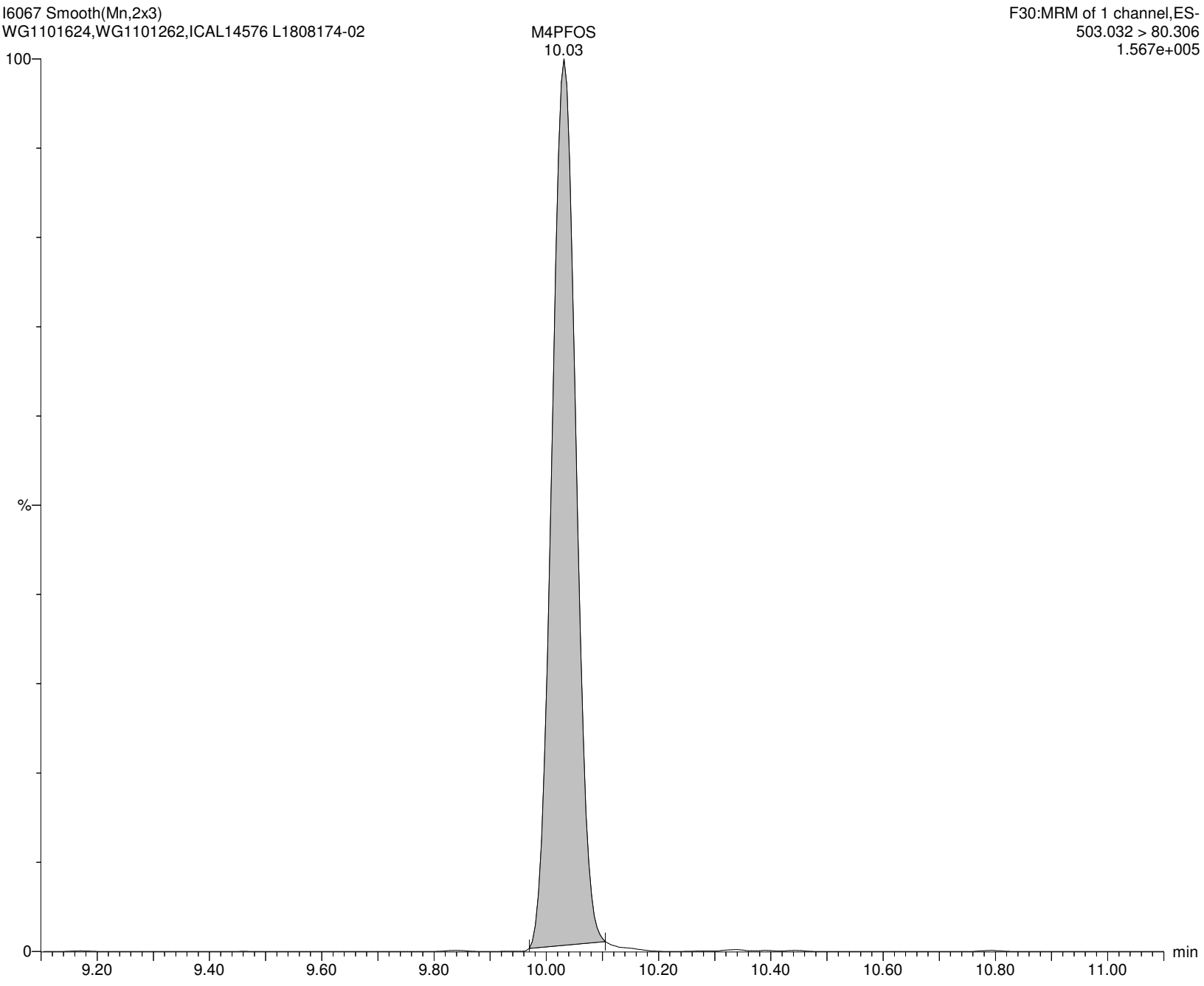

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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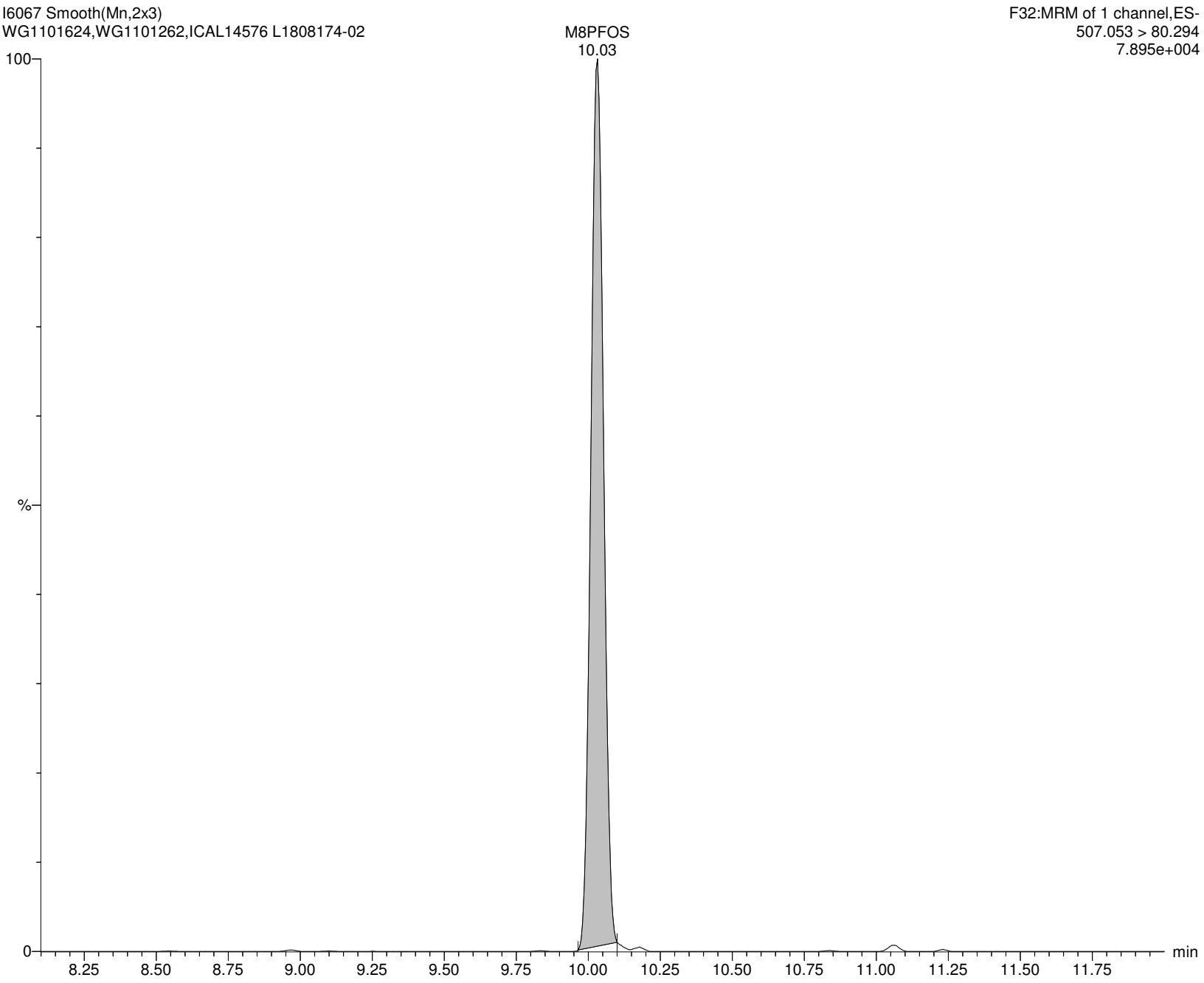

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Date: 29-Mar-2018
Time: 18:17:56
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User: LCMS01:AJ
Vial: 2:C,2
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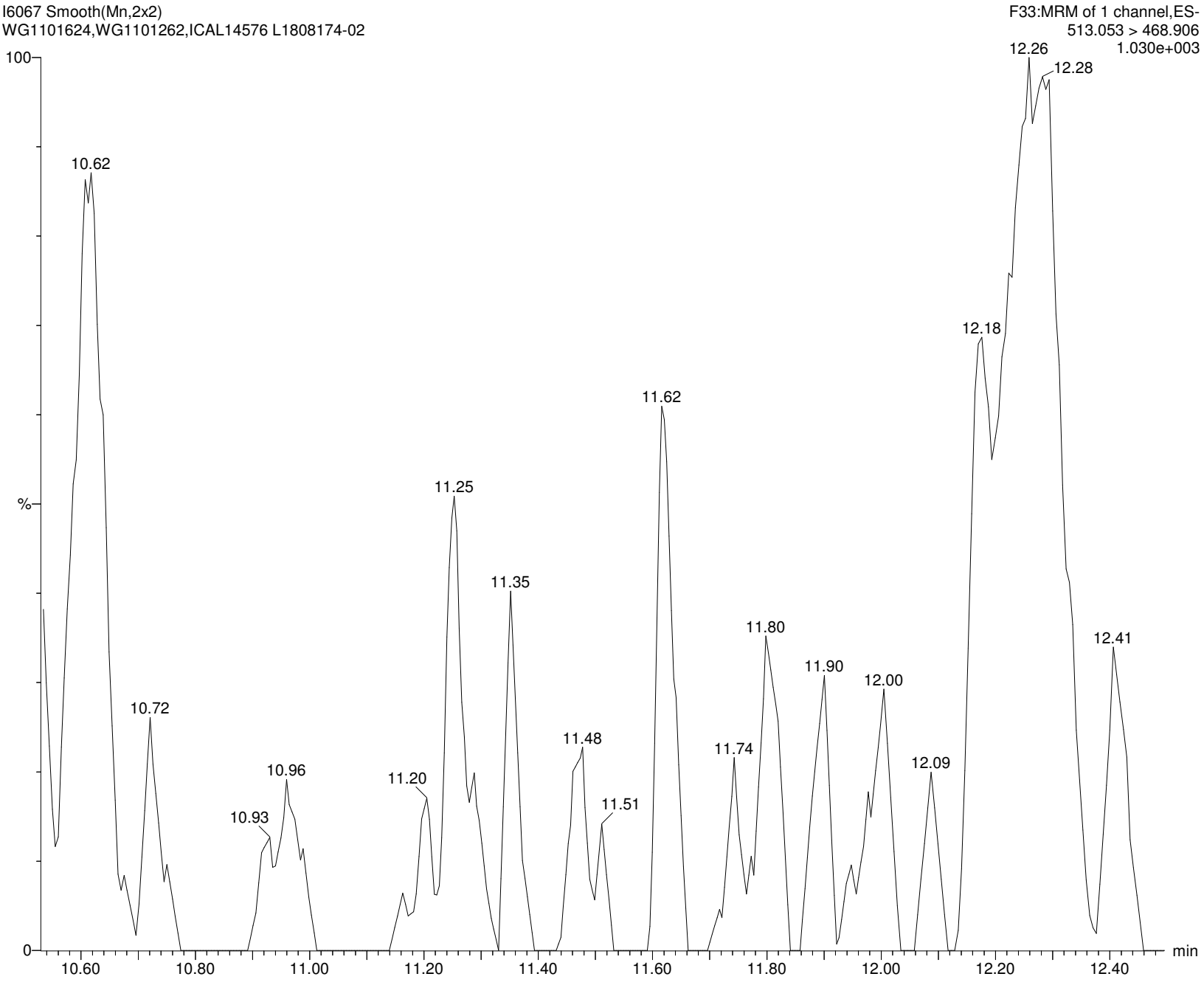

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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Date: 29-Mar-2018
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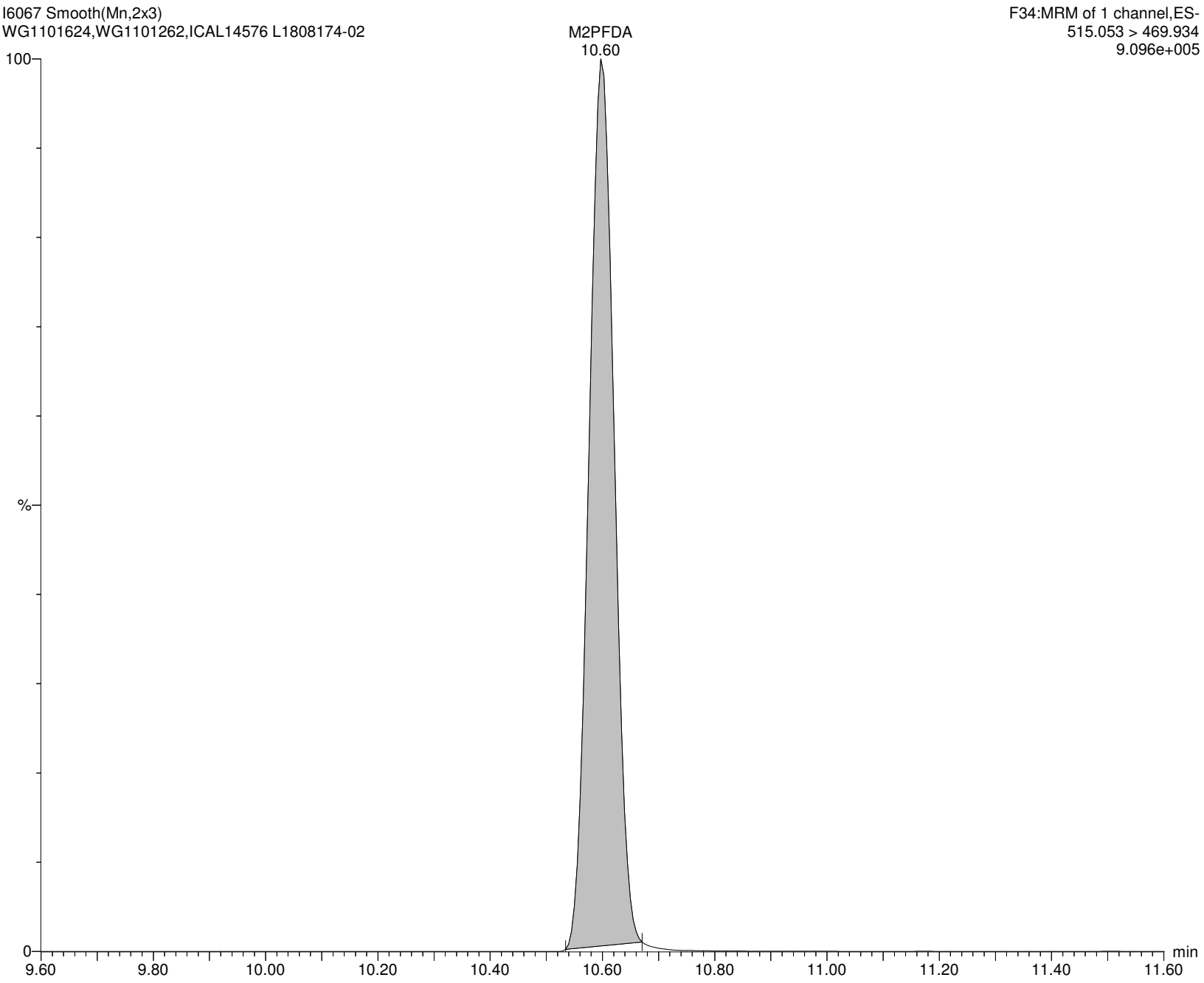

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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Name: I6067
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Date: 29-Mar-2018
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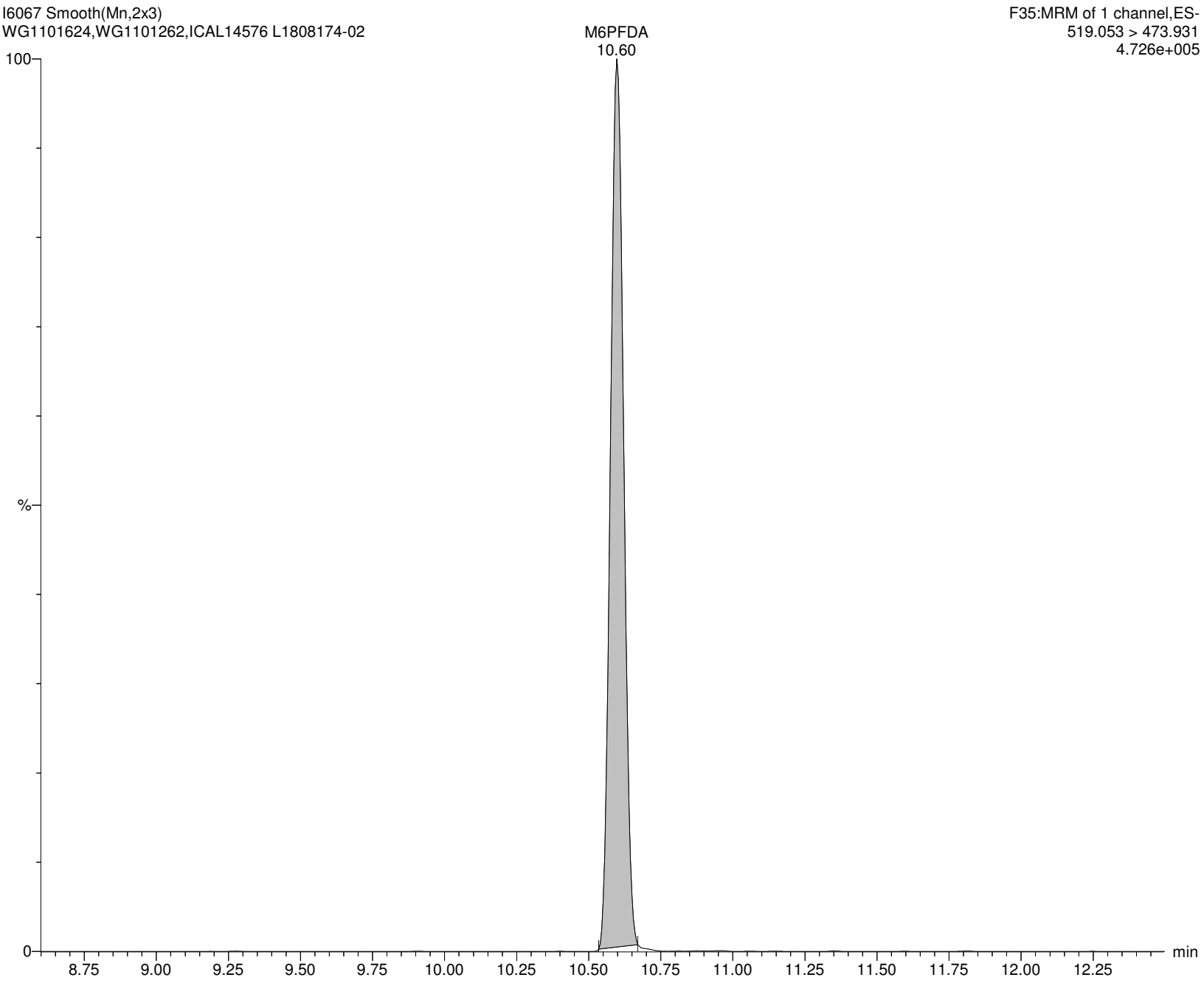

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Date: 29-Mar-2018
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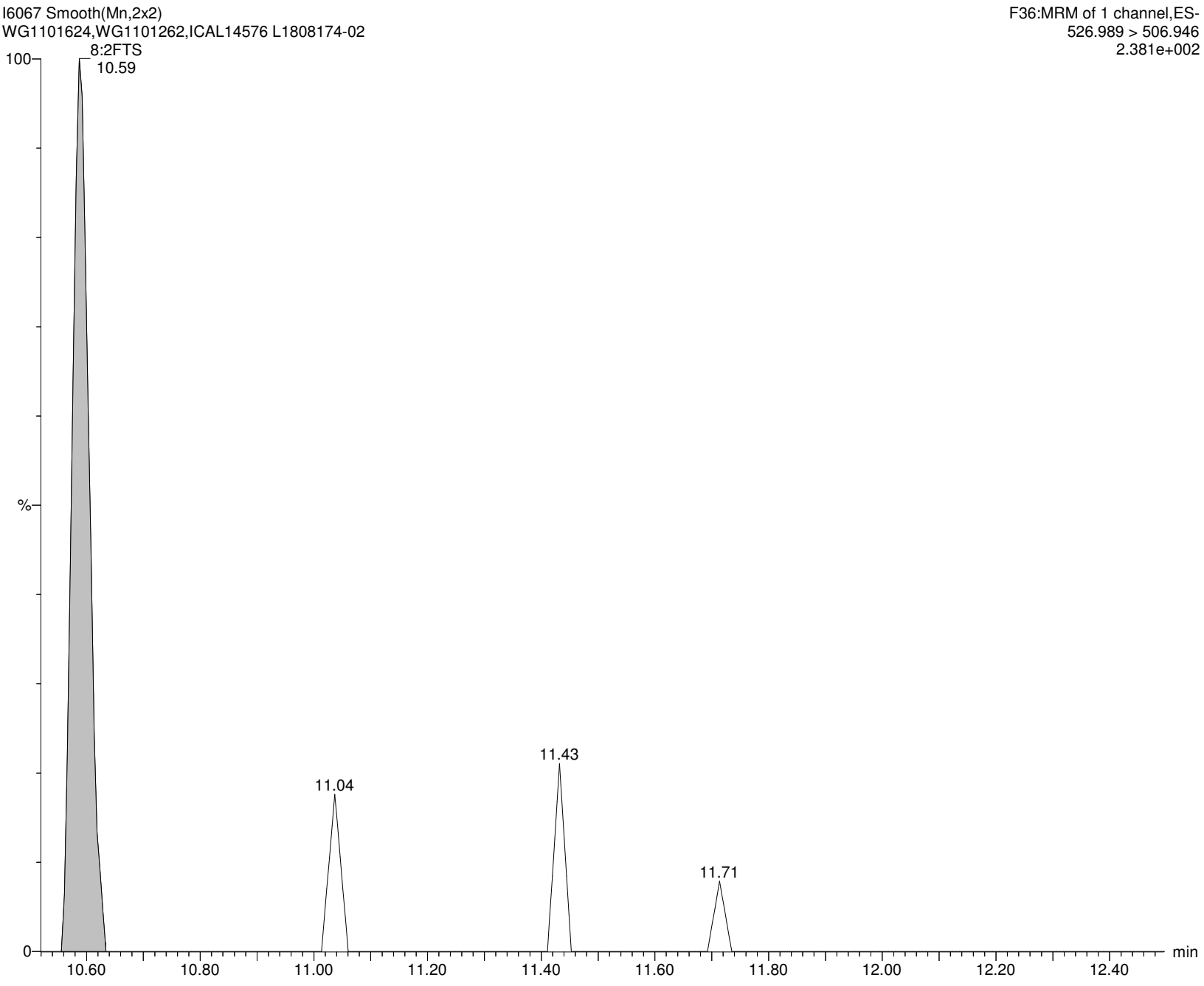
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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User: LCMS01:AJ
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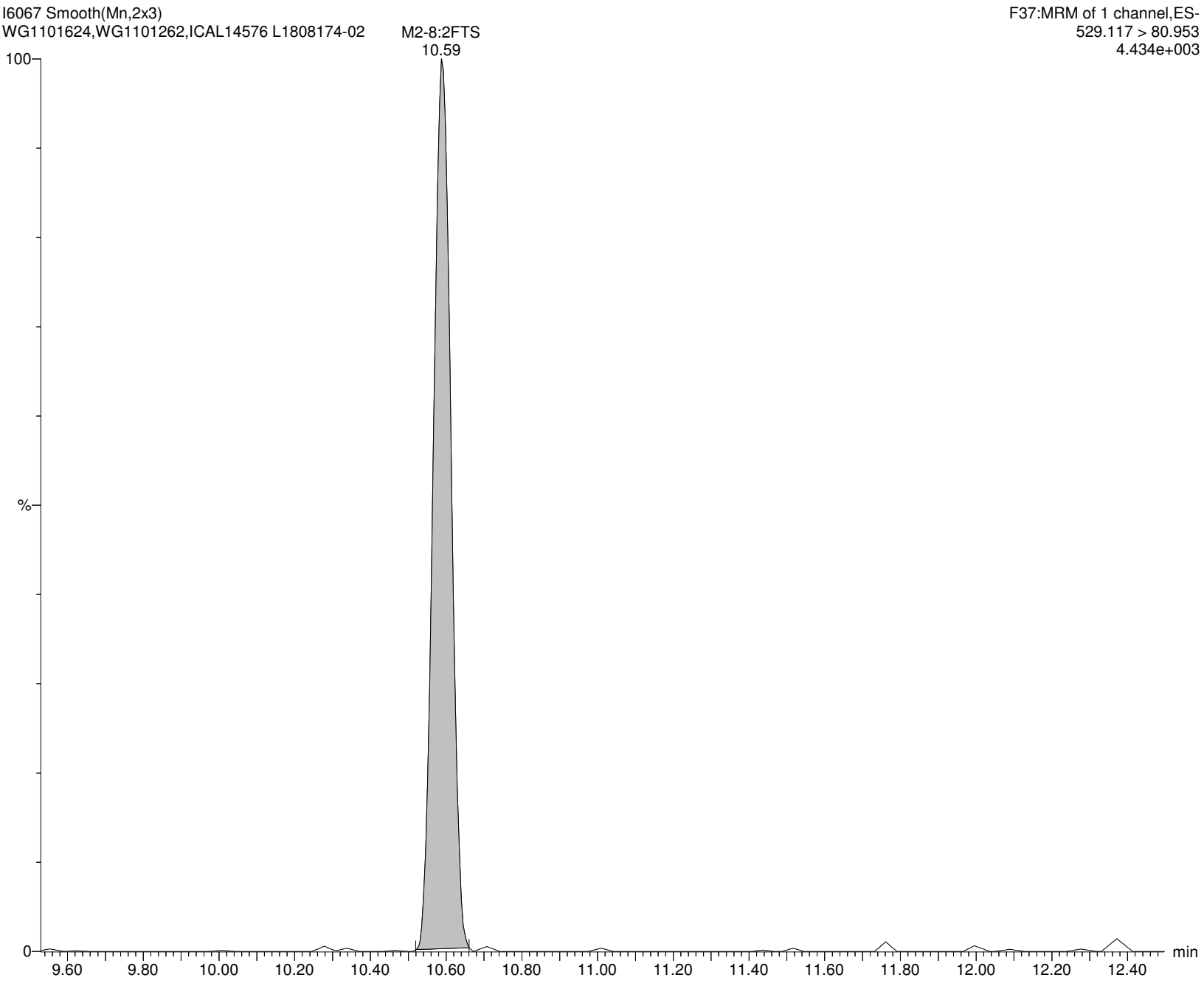
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Date: 29-Mar-2018
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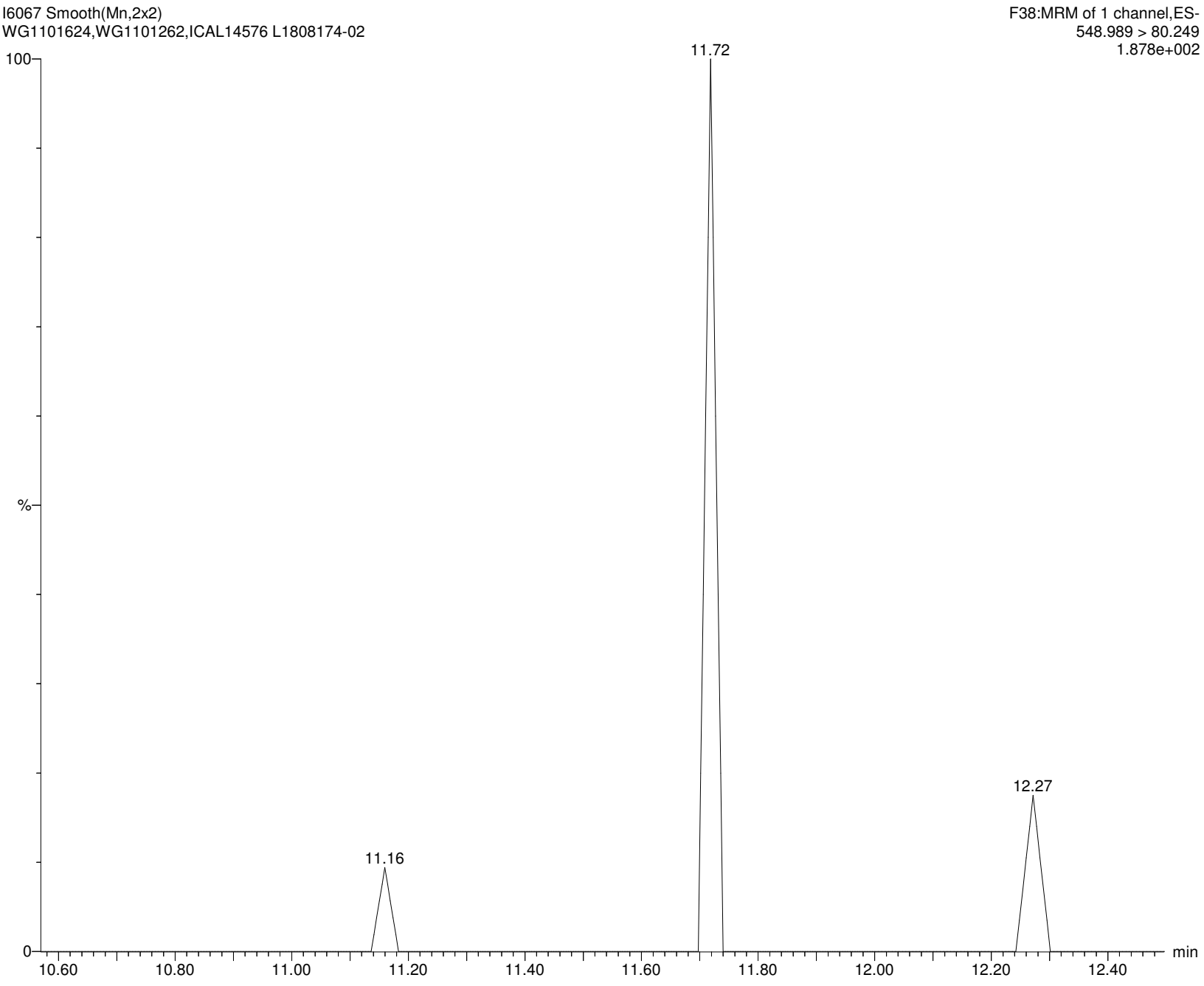

all concentration units in (ng/mL)

Alpha Analytical Inc.
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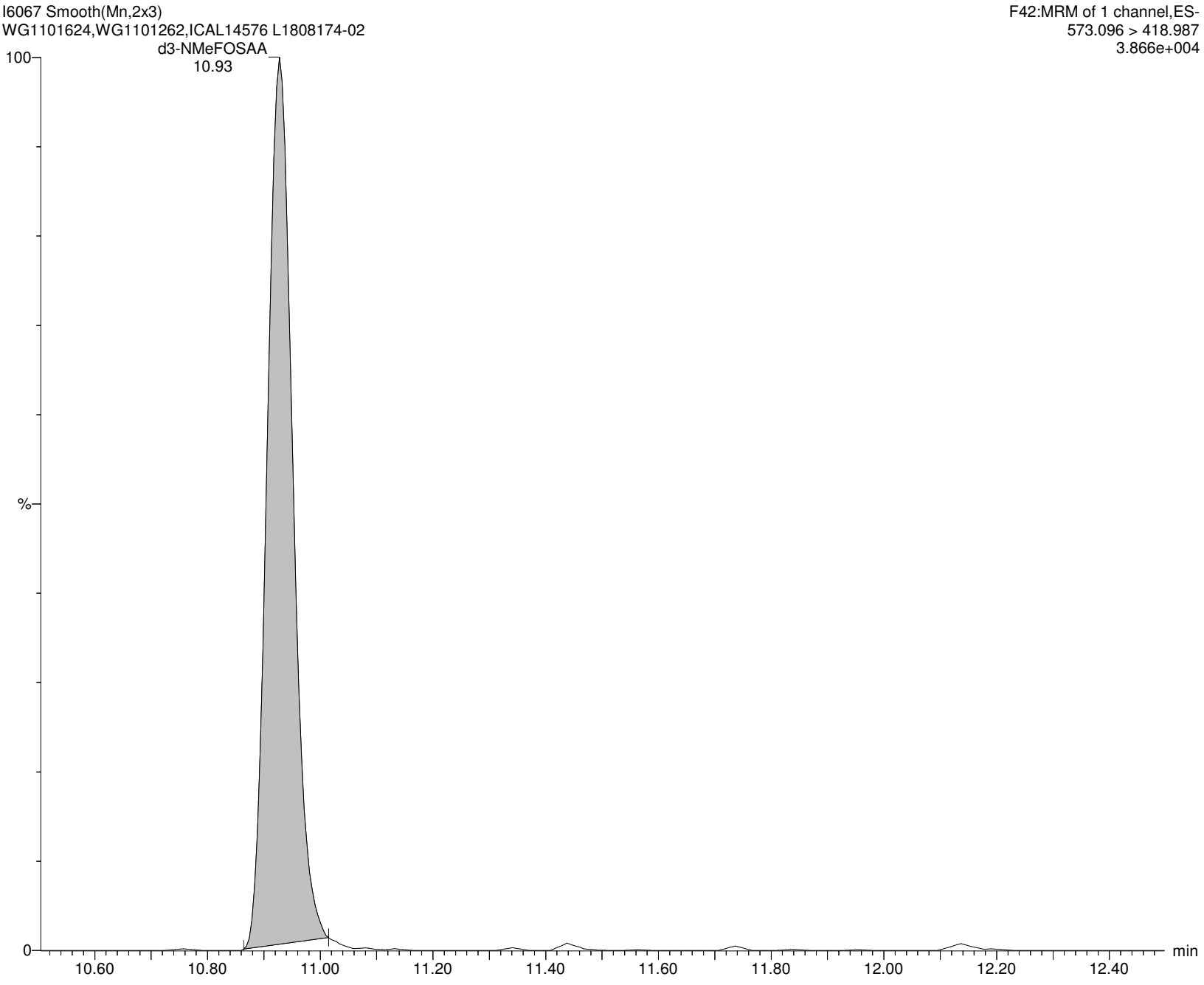
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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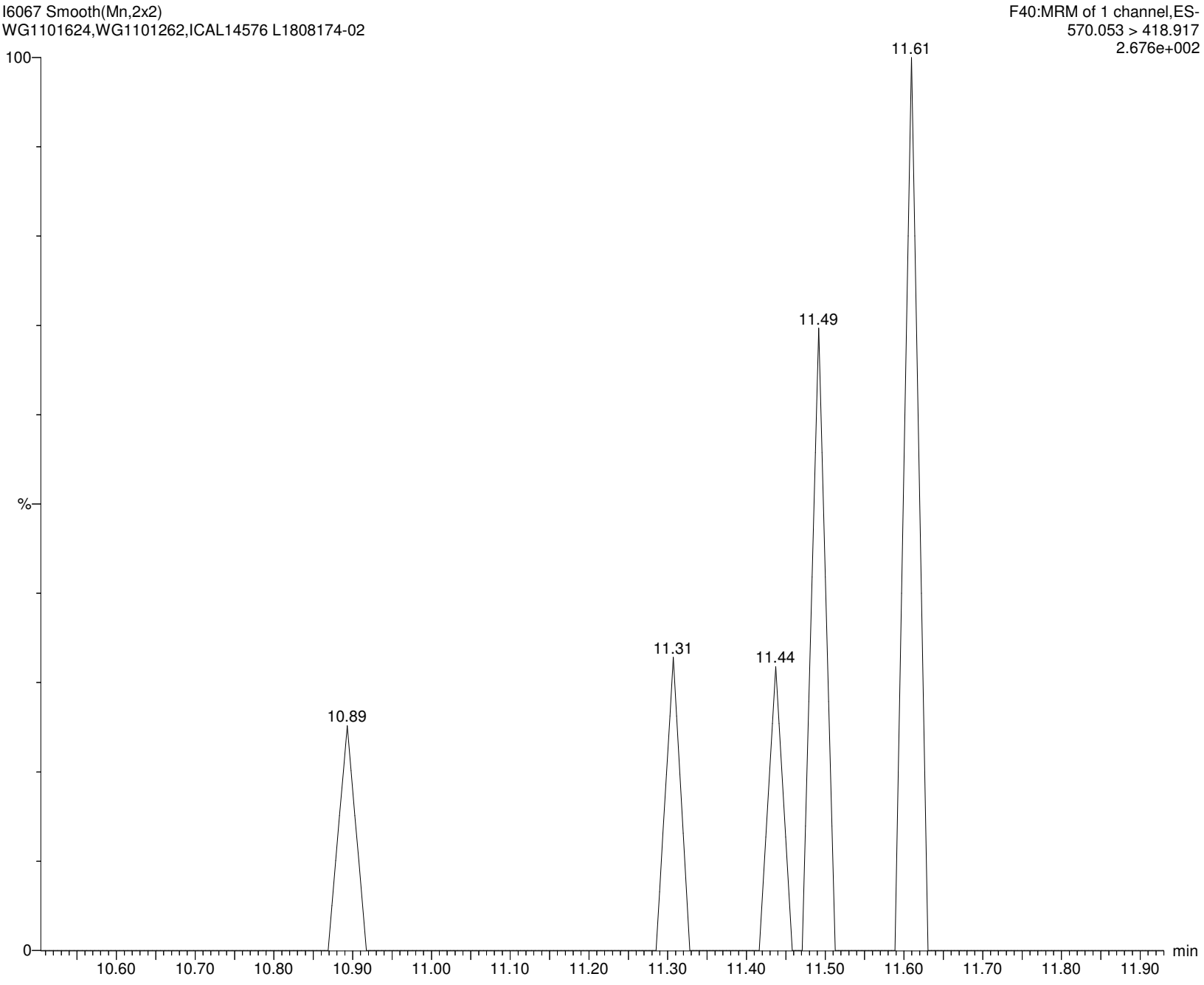

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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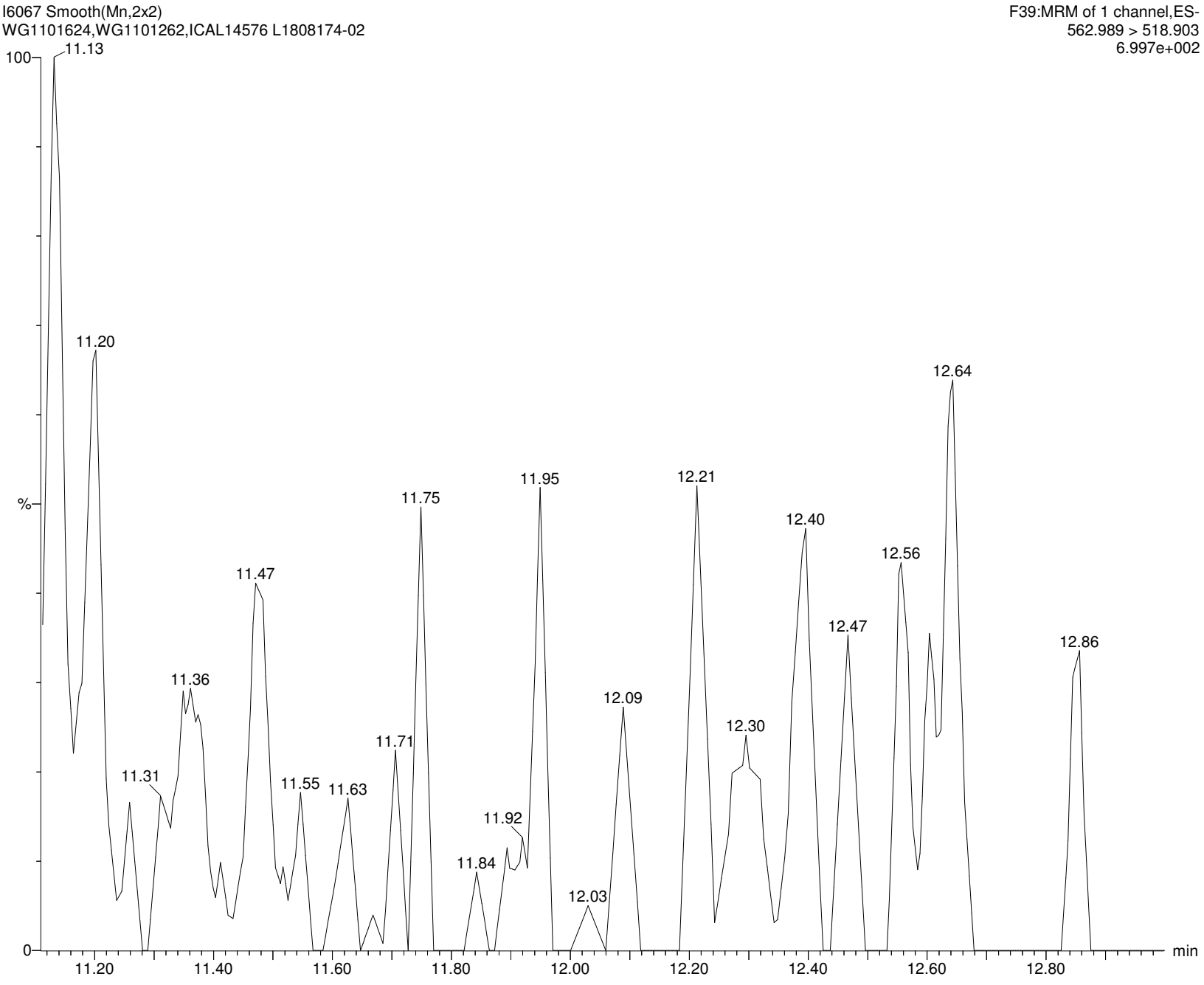

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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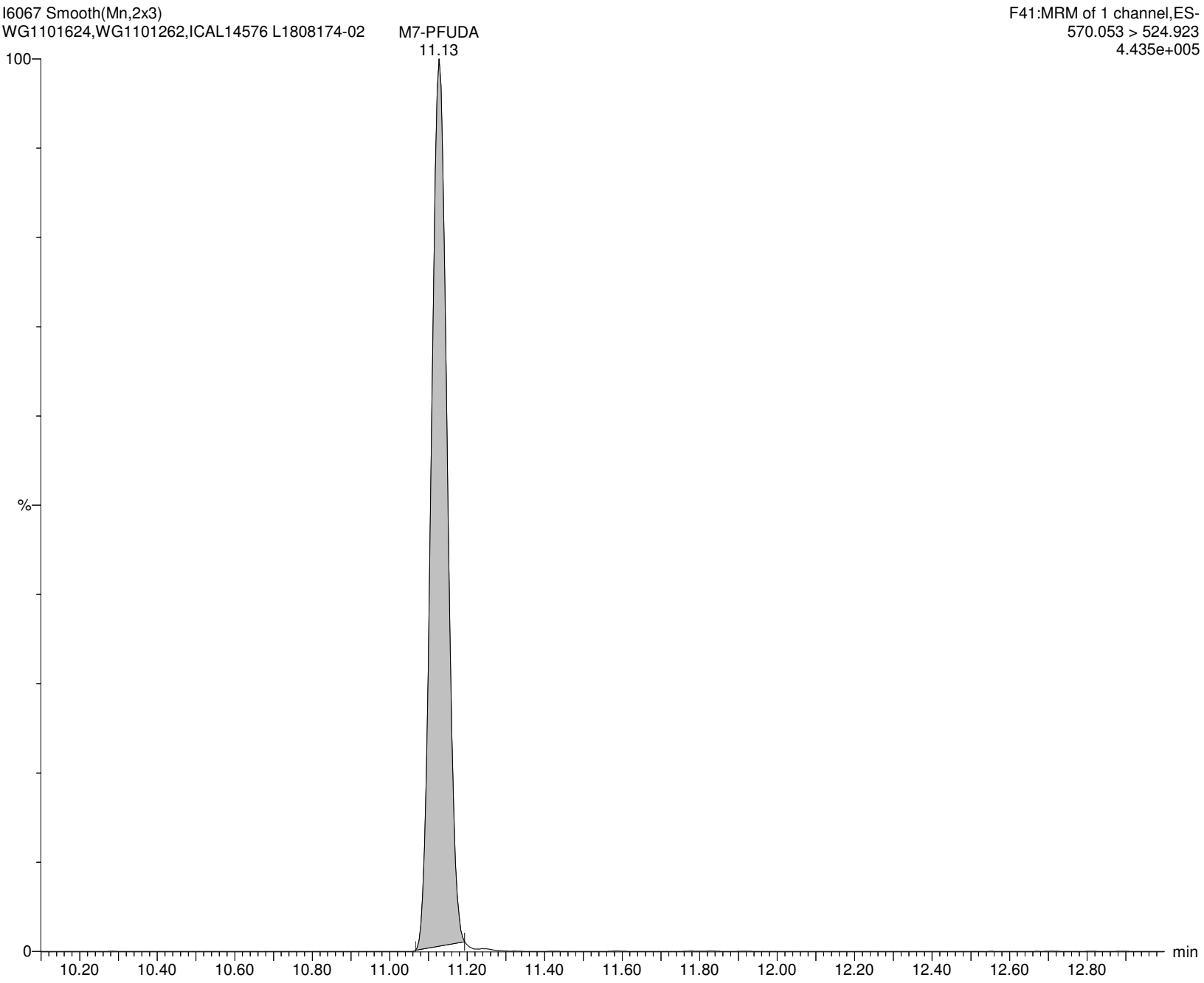
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

Name: I6067
ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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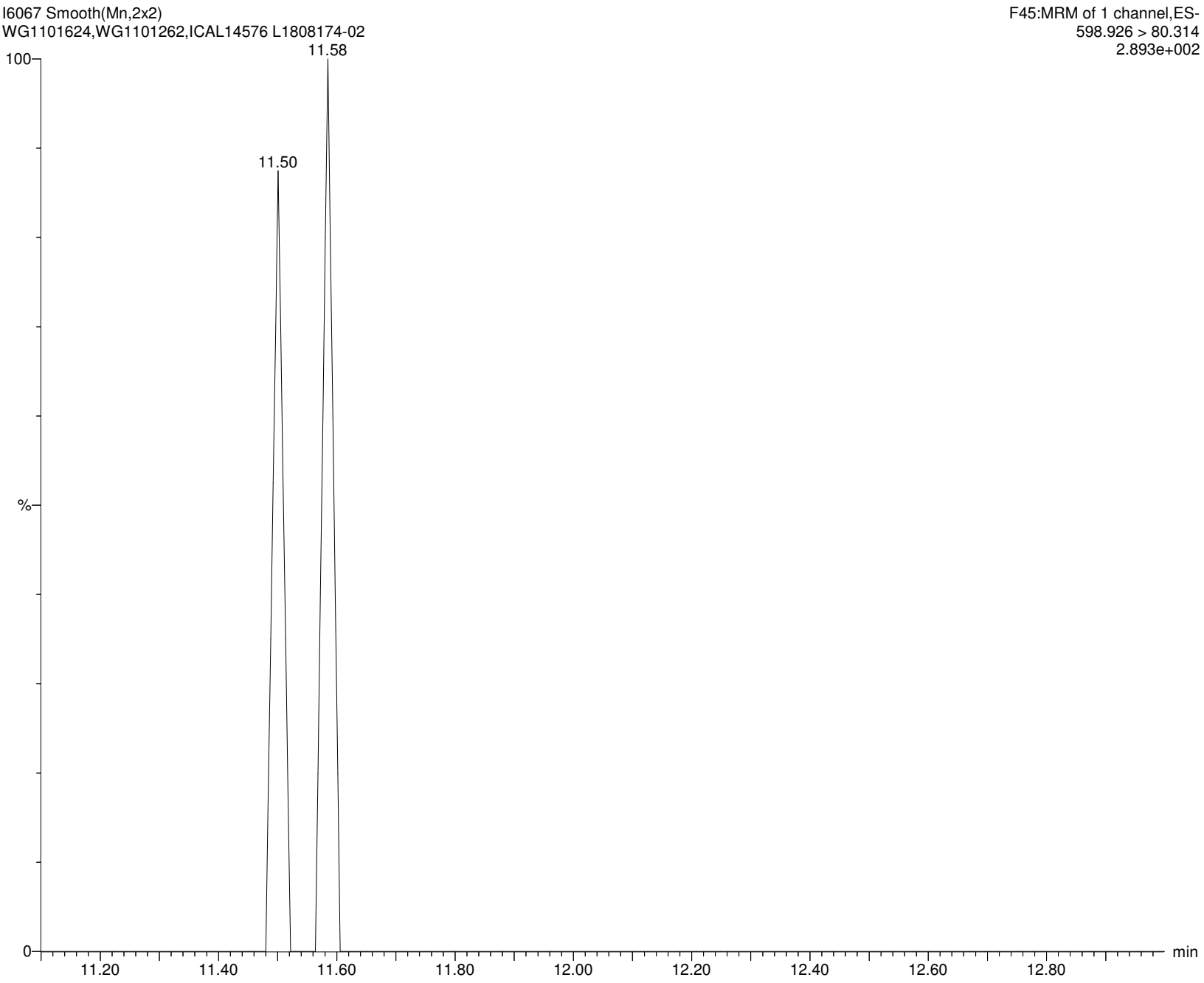

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Printed: Thursday, March 29, 2018 20:31:14 Eastern Daylight Time

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Date: 29-Mar-2018
Time: 18:17:56
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User: LCMS01:AJ
Vial: 2:C,2
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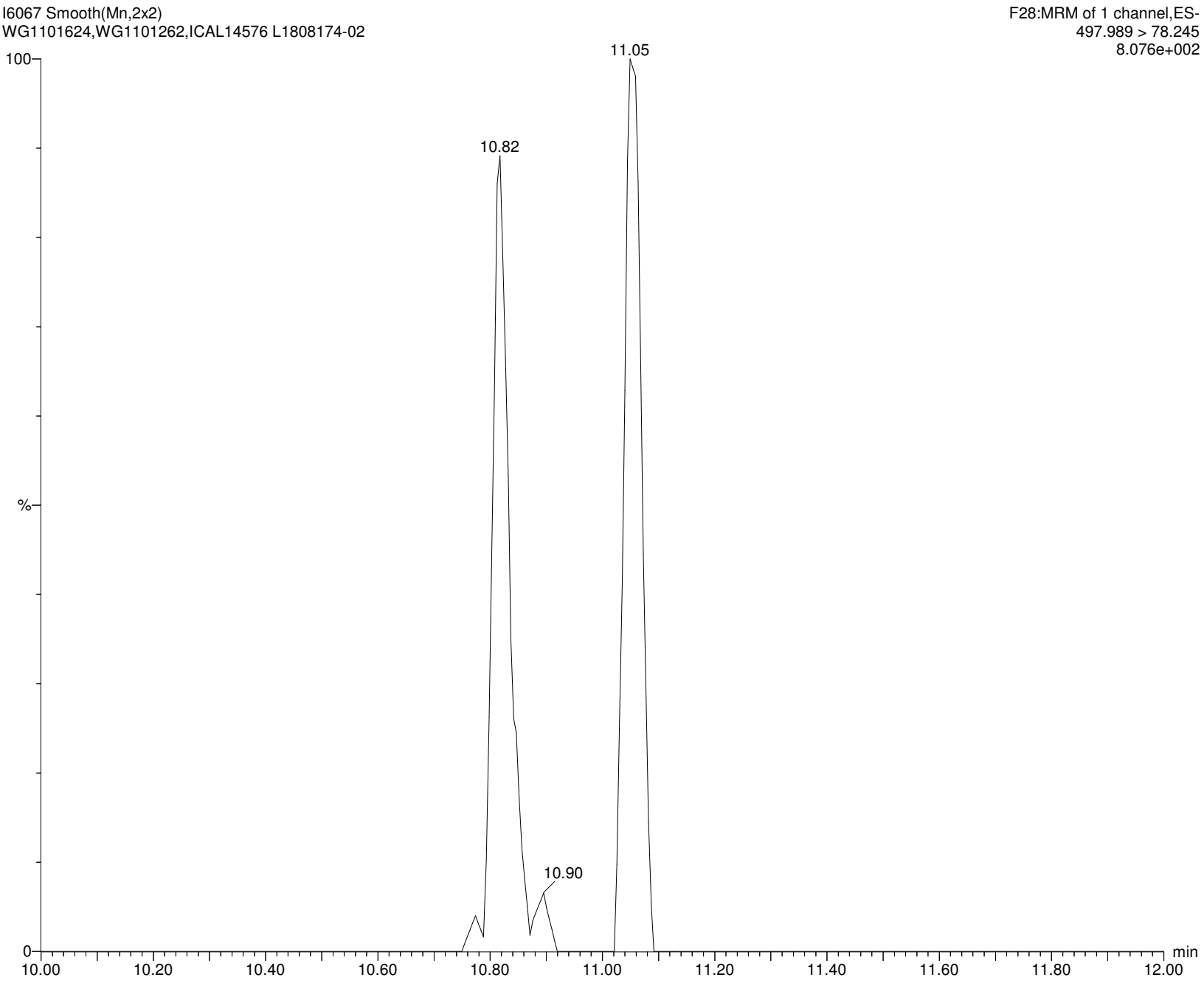

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 29-Mar-2018
Time: 18:17:56
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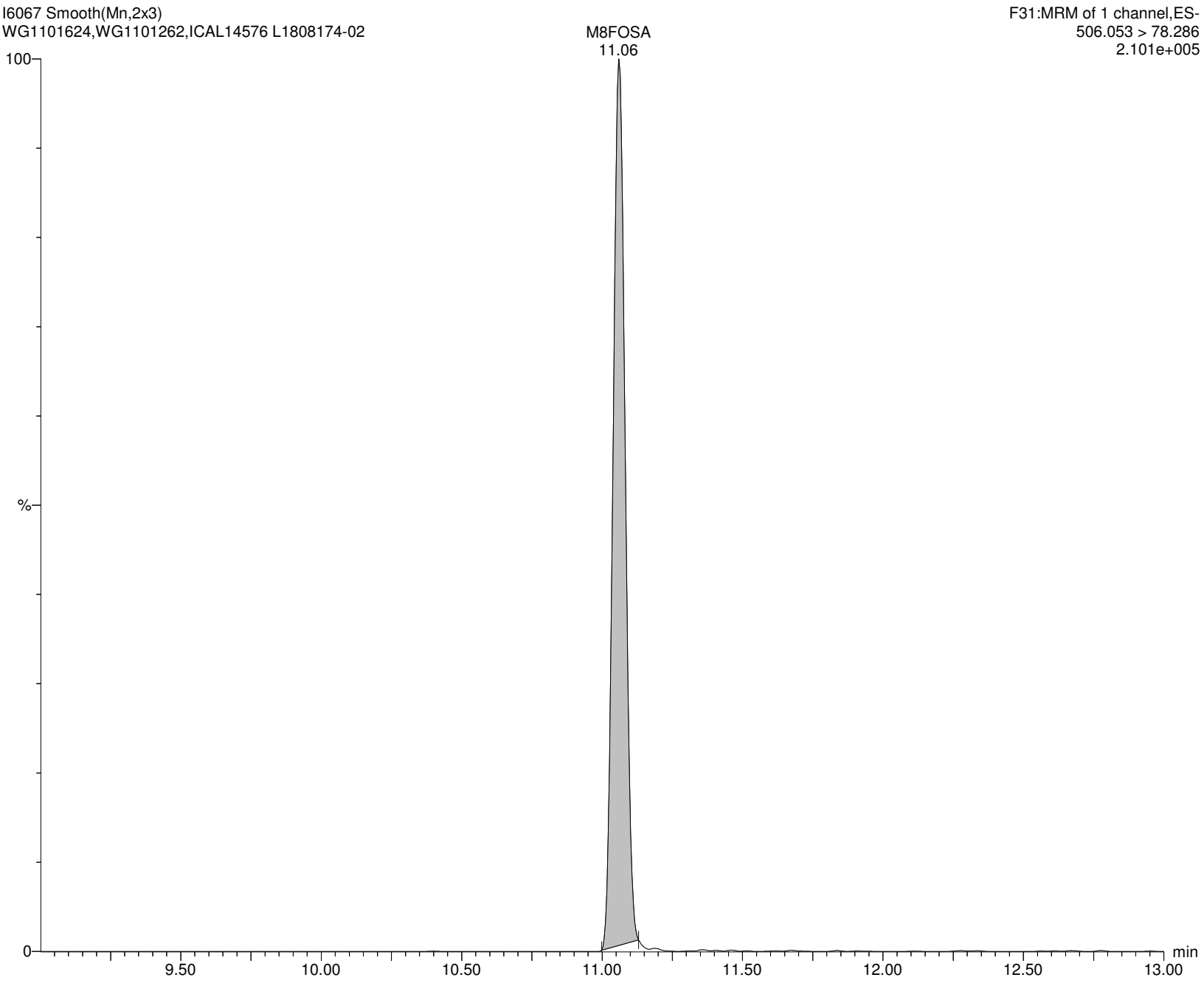

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Name: I6067
ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
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Vial: 2:C,2
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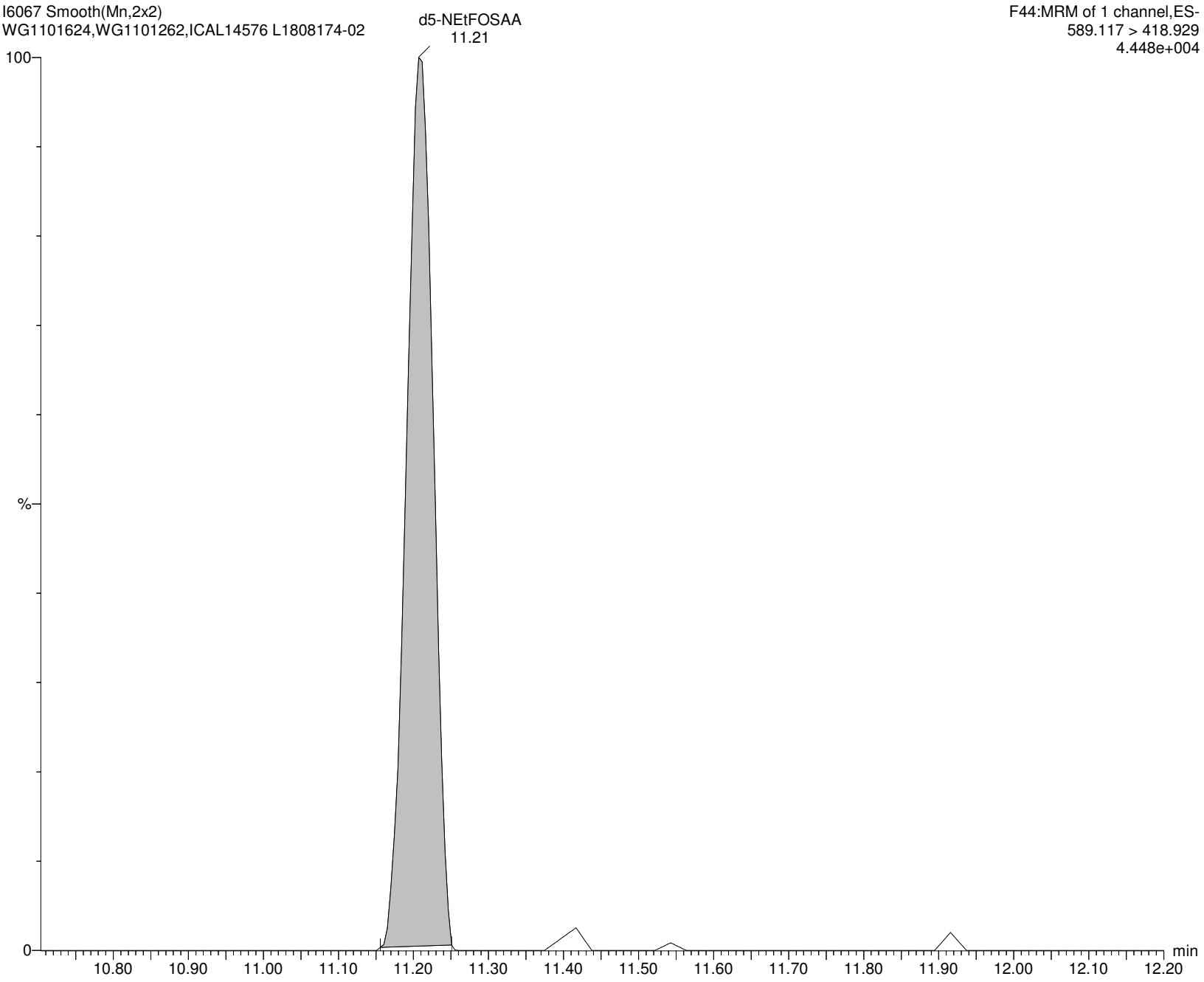

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
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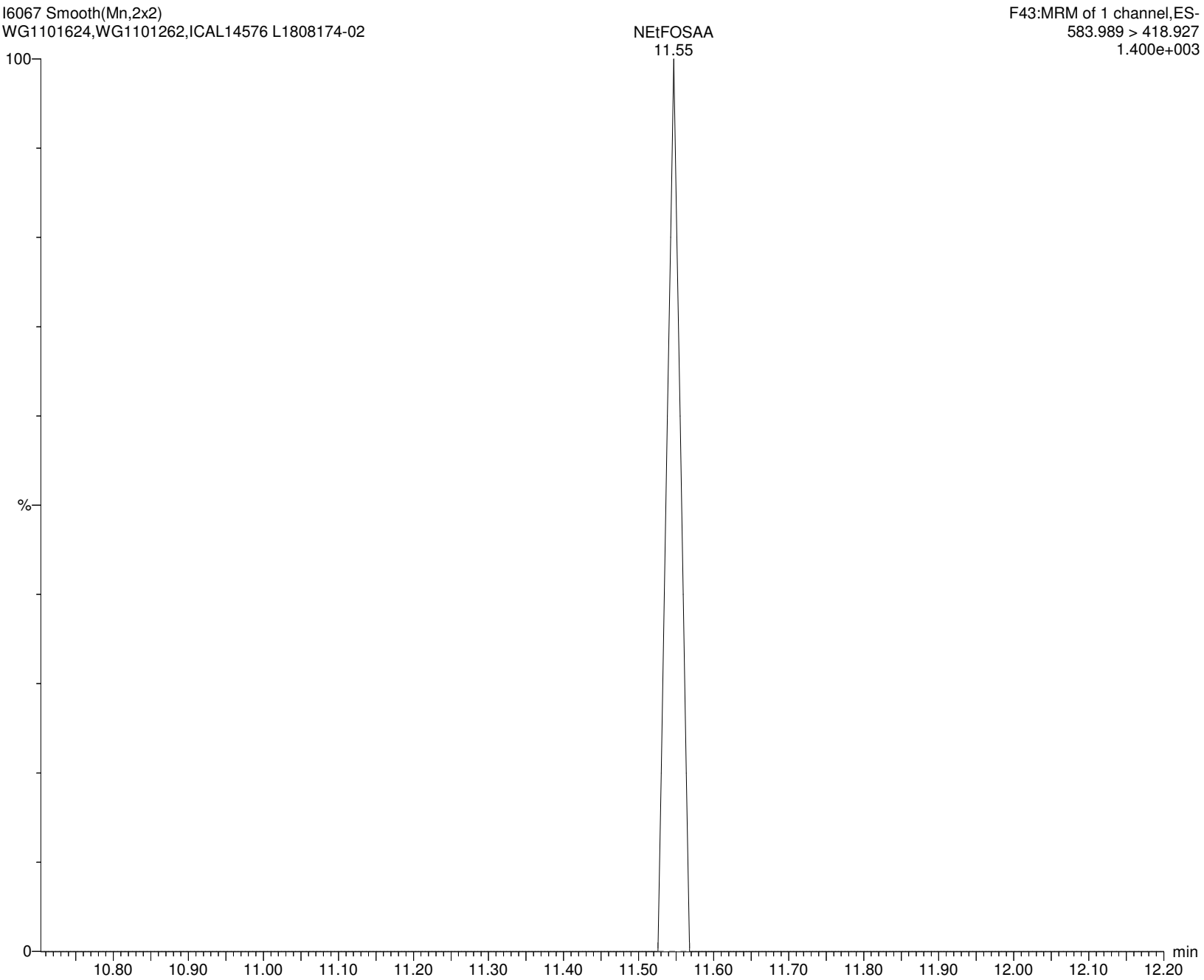

all concentration units in (ng/mL)

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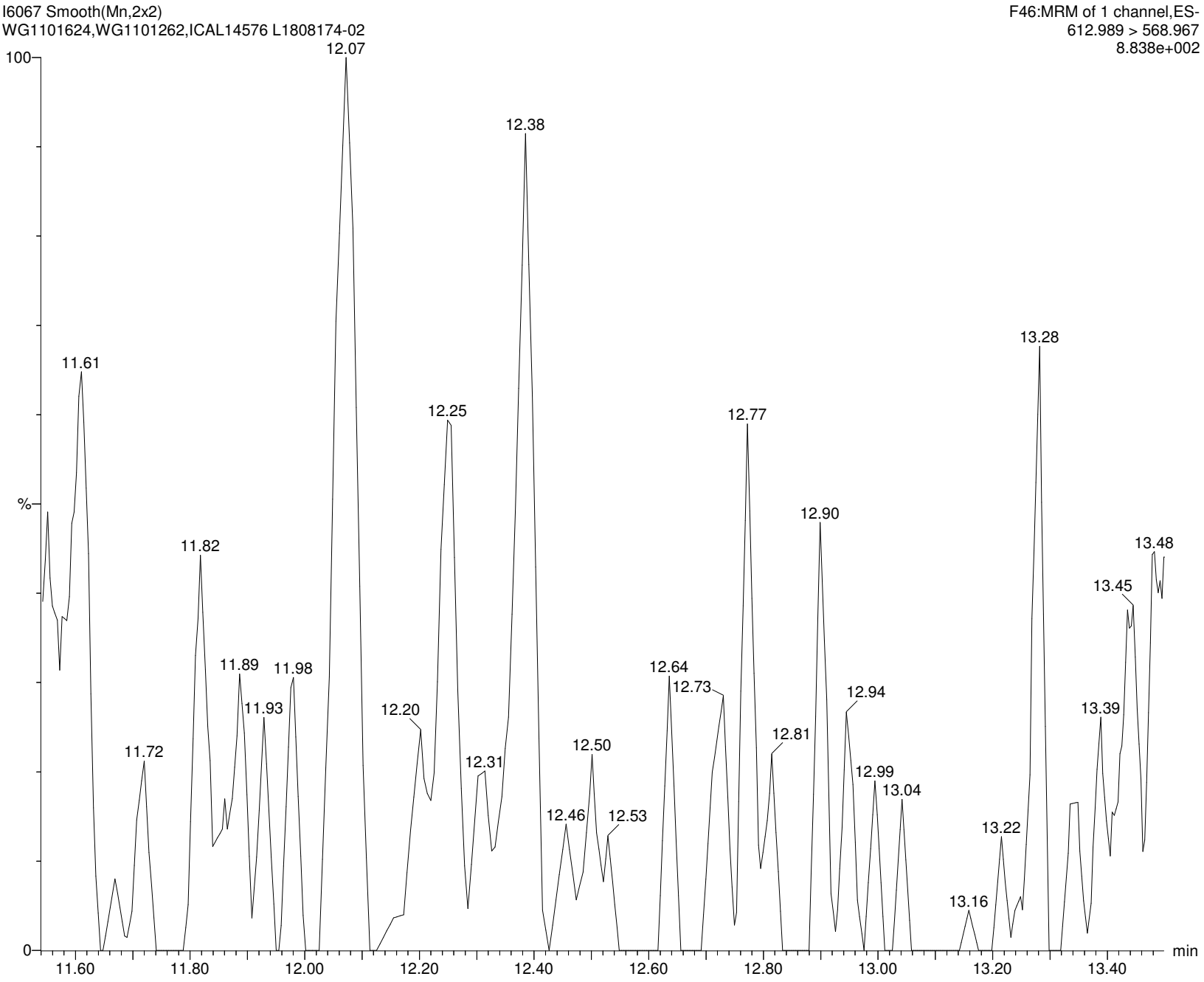

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AJ
Vial: 2:C,2
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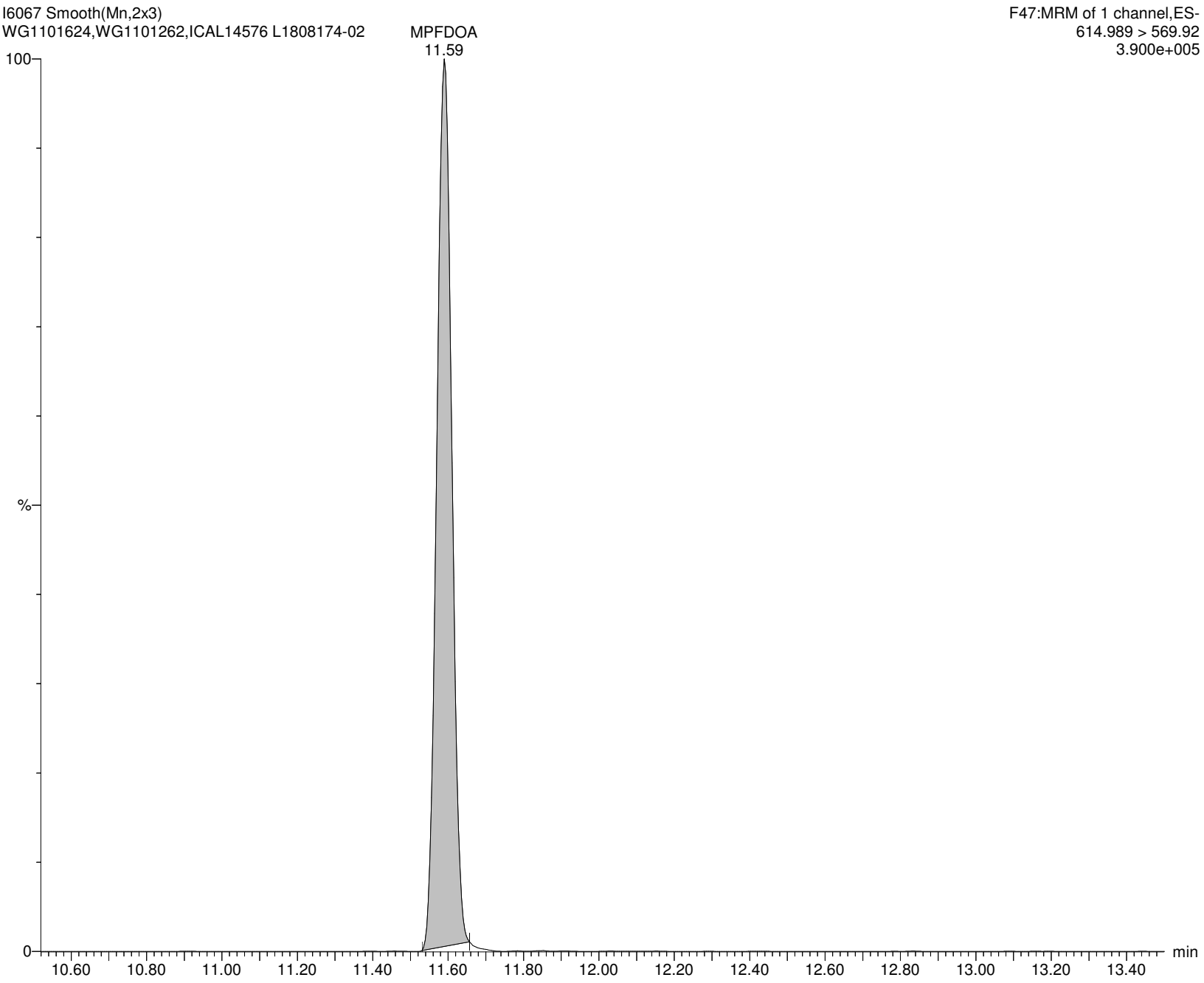

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Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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Time: 18:17:56
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User: LCMS01:AJ
Vial: 2:C,2
Instrument: XEVO-TQSmicro#QEA0276
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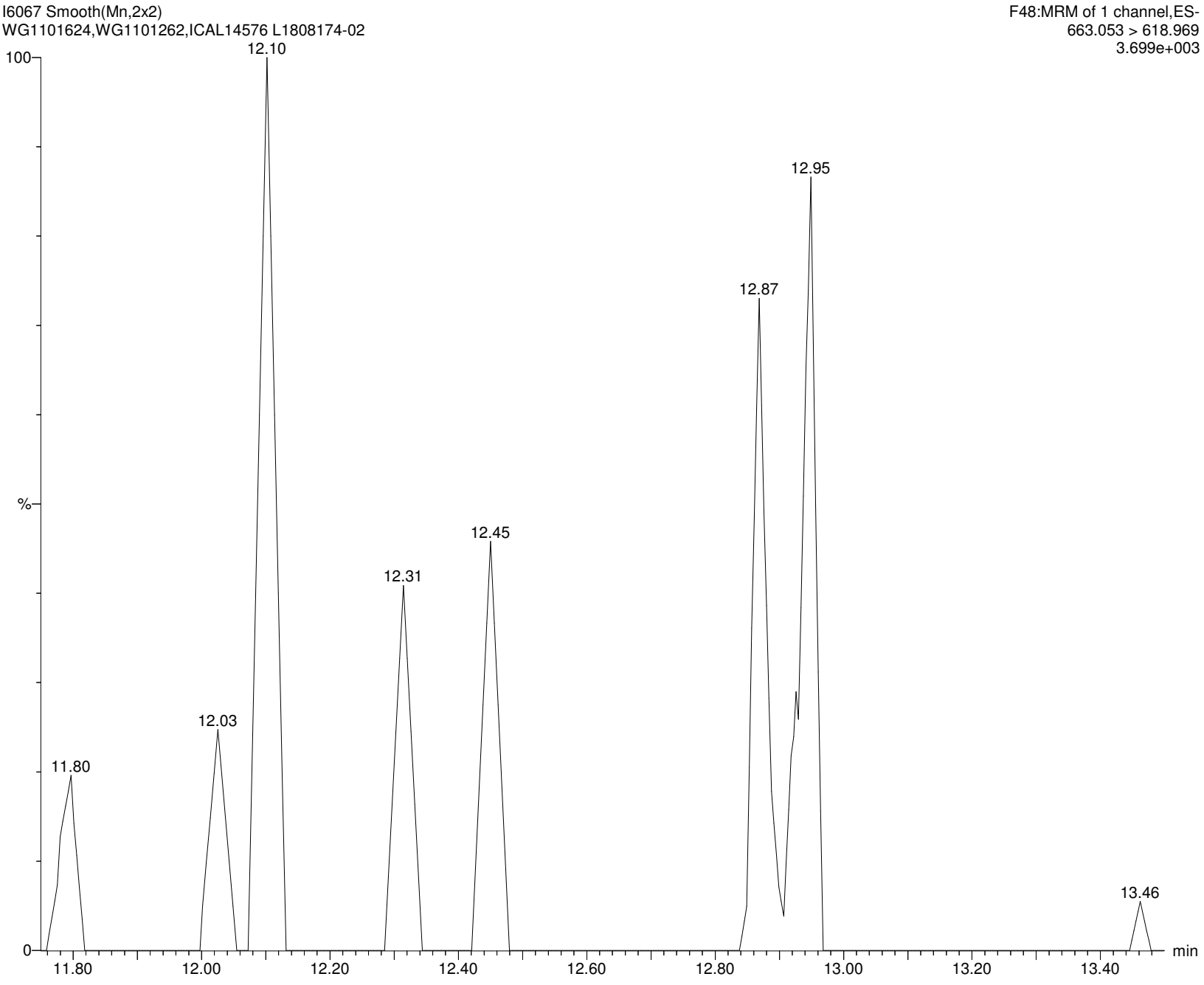

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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ID: L1808174-02
Date: 29-Mar-2018
Time: 18:17:56
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,2
Instrument: XEVO-TQSmicro#QEA0276
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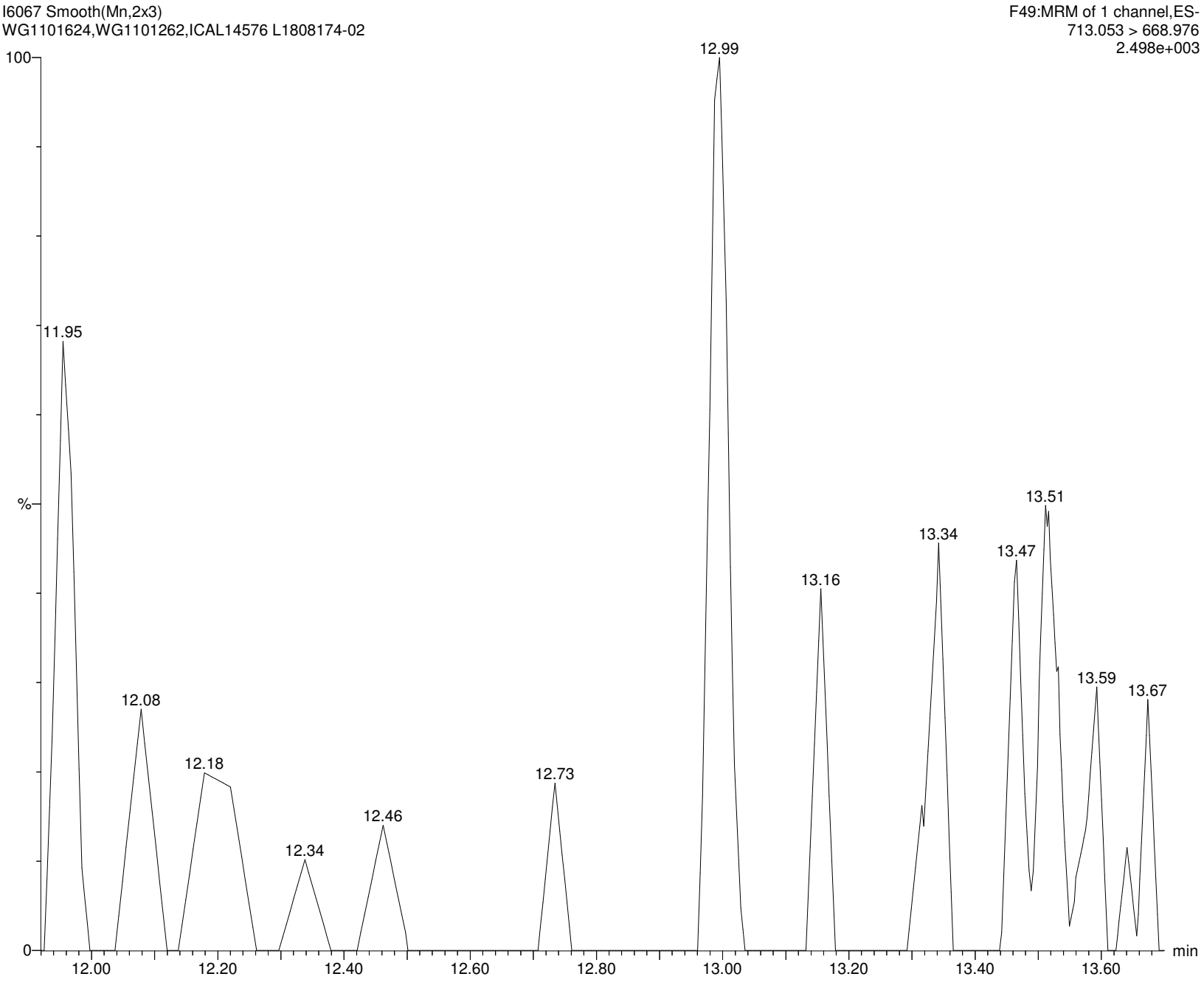

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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Time: 18:17:56
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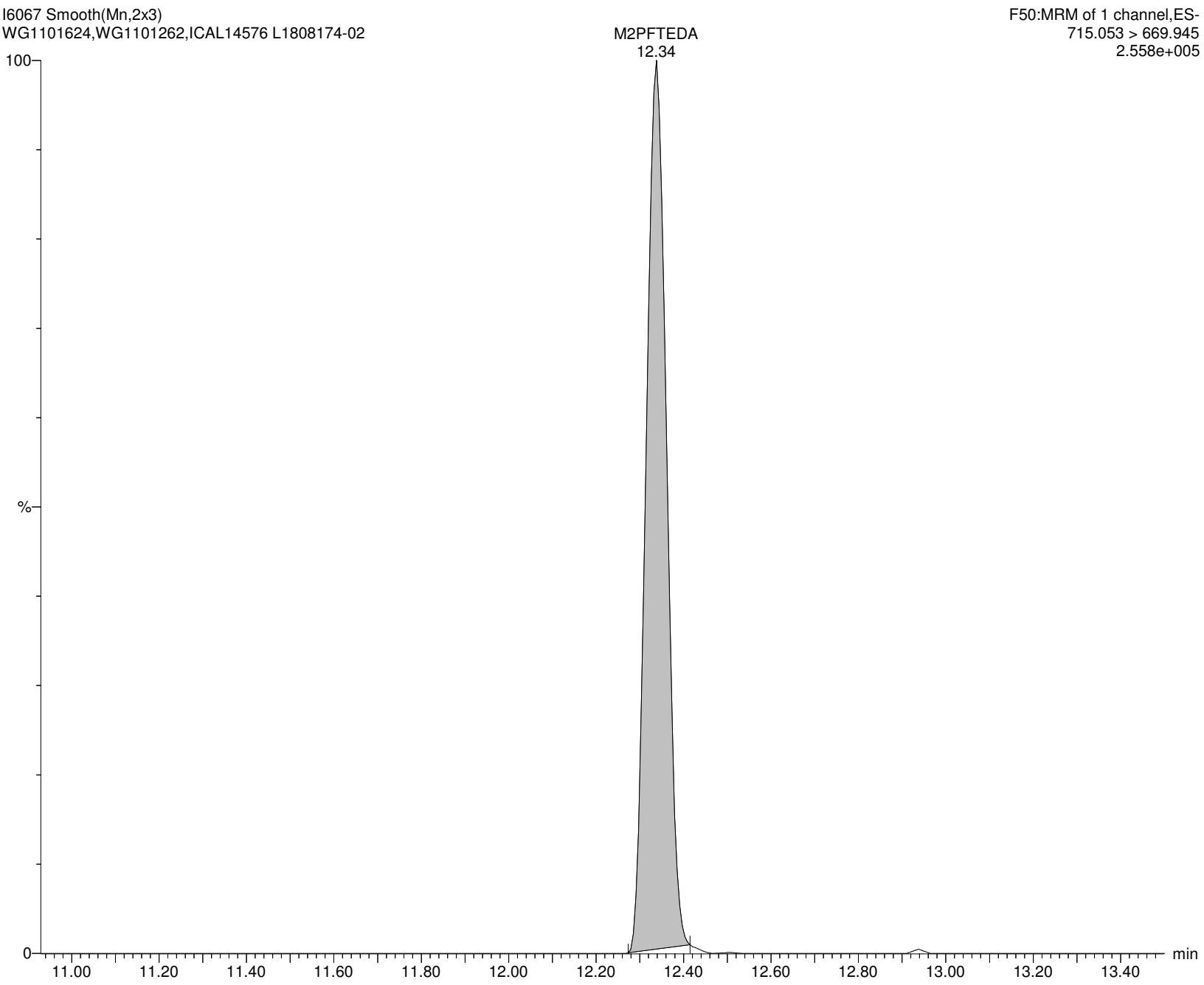

all concentration units in (ng/mL)

Batch Quality Control

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Raw Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: WG1101262-1
Name: I6060
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.24	215.926 > 172.122	46786		9.375		na	93.7
3	MPFBA	INT STD	2.24	216.926 > 172.137	46453		8.885		na	88.8
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	5.14	TIC	47353		8.787		na	87.9
6	PFBS	375-73-5		298.989 > 80.295			ND		na	
7	M3PFBS	INT STD	5.81	301.989 > 80.254	8627		7.083		na	70.8
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
9	M2-4:2FTS	INT STD	6.98	328.989 > 80.973	911		5.796		na	58.0
10	PFHxA	307-24-4		312.989 > 269.028			ND		na	
11	M5PFHxA	INT STD	7.05	317.989 > 273.045	50847		6.821		na	68.2
12	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
13	PFHpA	375-85-9		362.926 > 319.014			ND		na	
14	M4PFHpA	INT STD	8.31	366.926 > 321.979	57744		6.821		na	68.2
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		na	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		na	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.48	401.926 > 80.317	8294		7.403		na	74.0
19	br-PFOA	335-67-1	8.86	412.989 > 368.9	65		0.011		na	
20	L-PFOA	335-67-1	9.25	412.989 > 368.9	297		0.052		na	
21	M2PFOA	INT STD	9.25	415.032 > 369.968	77444		12.514		na	125.1
22	PFOA	335-67-1		412.989 > 368.9	362		0.063		na	
23	M8PFOA	INT STD	9.25	420.989 > 375.979	55055		7.320		na	73.2
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		na	
25	M2-6:2FTS	INT STD	9.21	428.989 > 408.917	3226		5.440		na	54.4
26	PFHpS	375-92-8		448.926 > 80.257			ND		na	
27	PFNA	375-95-1		462.989 > 418.931			ND		na	
28	M9PFNA	INT STD	9.99	472.053 > 426.947	49691		7.030		na	70.3
29	br-PFOS	1763-23-1	9.86	498.989 > 80.294	16		0.018		na	
30	L-PFOS	1763-23-1	10.10	498.989 > 80.294	3		0.005		na	
31	PFOS	1763-23-1		498.989 > 80.294	19		0.023		na	
32	M4PFOS	INT STD	10.04	503.032 > 80.306	7420		12.238		na	122.4
33	M8PFOS	INT STD	10.04	507.053 > 80.294	6371		7.032		na	70.3
34	PFDA	335-76-2		513.053 > 468.906			ND		na	
35	M2PFDA	INT STD	10.60	515.053 > 469.934	46469		11.084		na	110.8
36	M6PFDA	INT STD	10.60	519.053 > 473.931	45187		8.053		na	80.5
37	8:2FTS	39108-34-4		526.989 > 506.946			ND		na	
38	M2-8:2FTS	INT STD	10.60	529.117 > 80.953	536		5.853		na	58.5
39	PFNS	68259-12-1		548.989 > 80.249			ND		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

ID: WG1101262-1
Name: I6060
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	2187		3.048		na	30.5
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		na	
43	M7-PFUDA	INT STD	11.13	570.053 > 524.923	36271		7.900		na	79.0
44	PFDS	335-77-3		598.926 > 80.314			ND		na	
45	FOSA	754-91-6		497.989 > 78.245			ND		na	
46	M8FOSA	INT STD	11.06	506.053 > 78.286	3258		1.316		na	13.2
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	2592		3.814		na	38.1
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		na	
49	PFDoA	307-55-1		612.989 > 568.967			ND		na	
50	MPFDOA	INT STD	11.59	614.989 > 569.92	34512		7.265		na	72.6
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		na	
52	PFTA	376-06-7		713.053 > 668.976			ND		na	
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	16403		4.392		na	43.9

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

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Name: I6060
ID: WG1101262-1
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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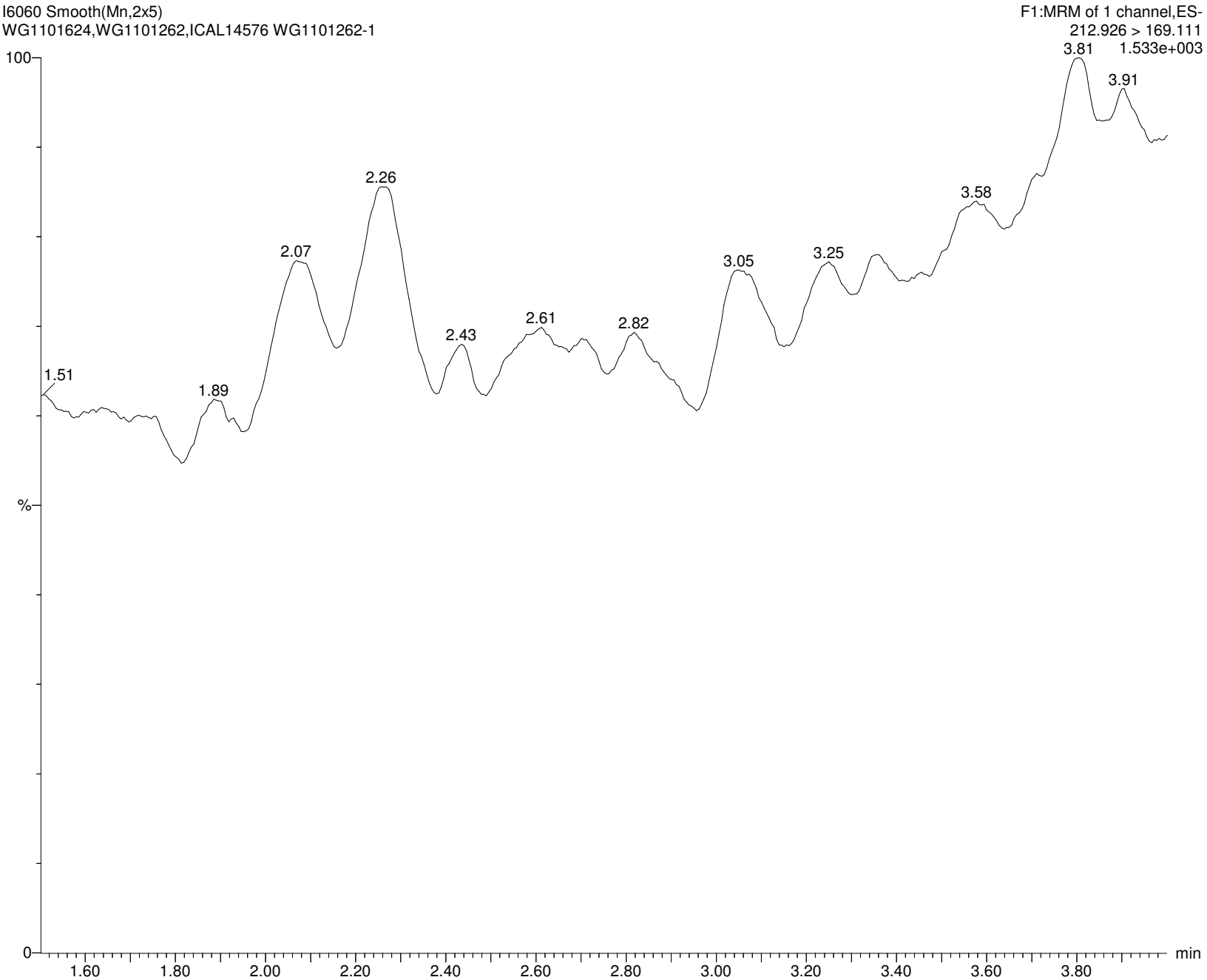

all concentration units in (ng/mL)

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Date: 29-Mar-2018
Time: 16:22:10
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Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
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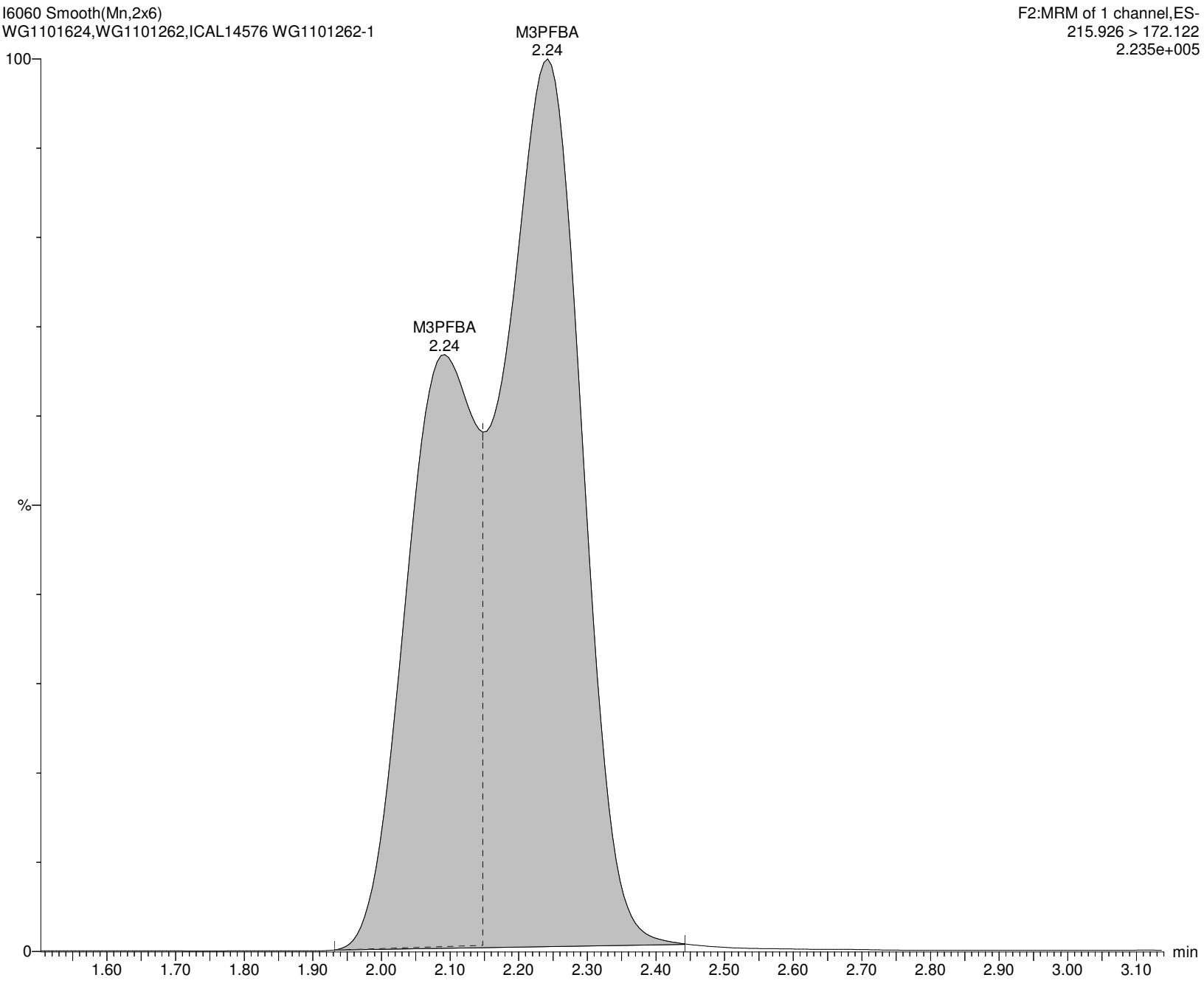

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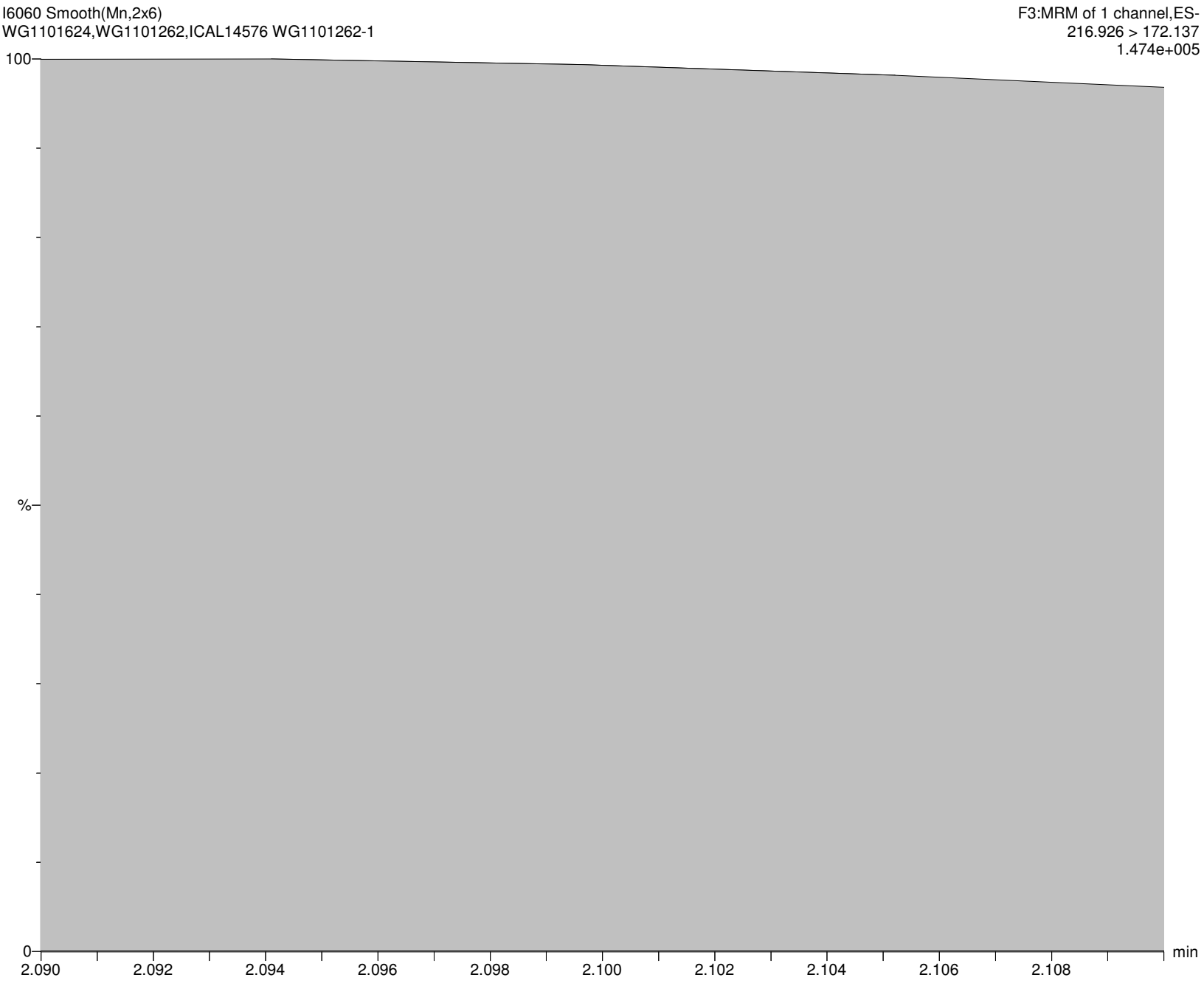

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

Name: I6060
ID: WG1101262-1
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
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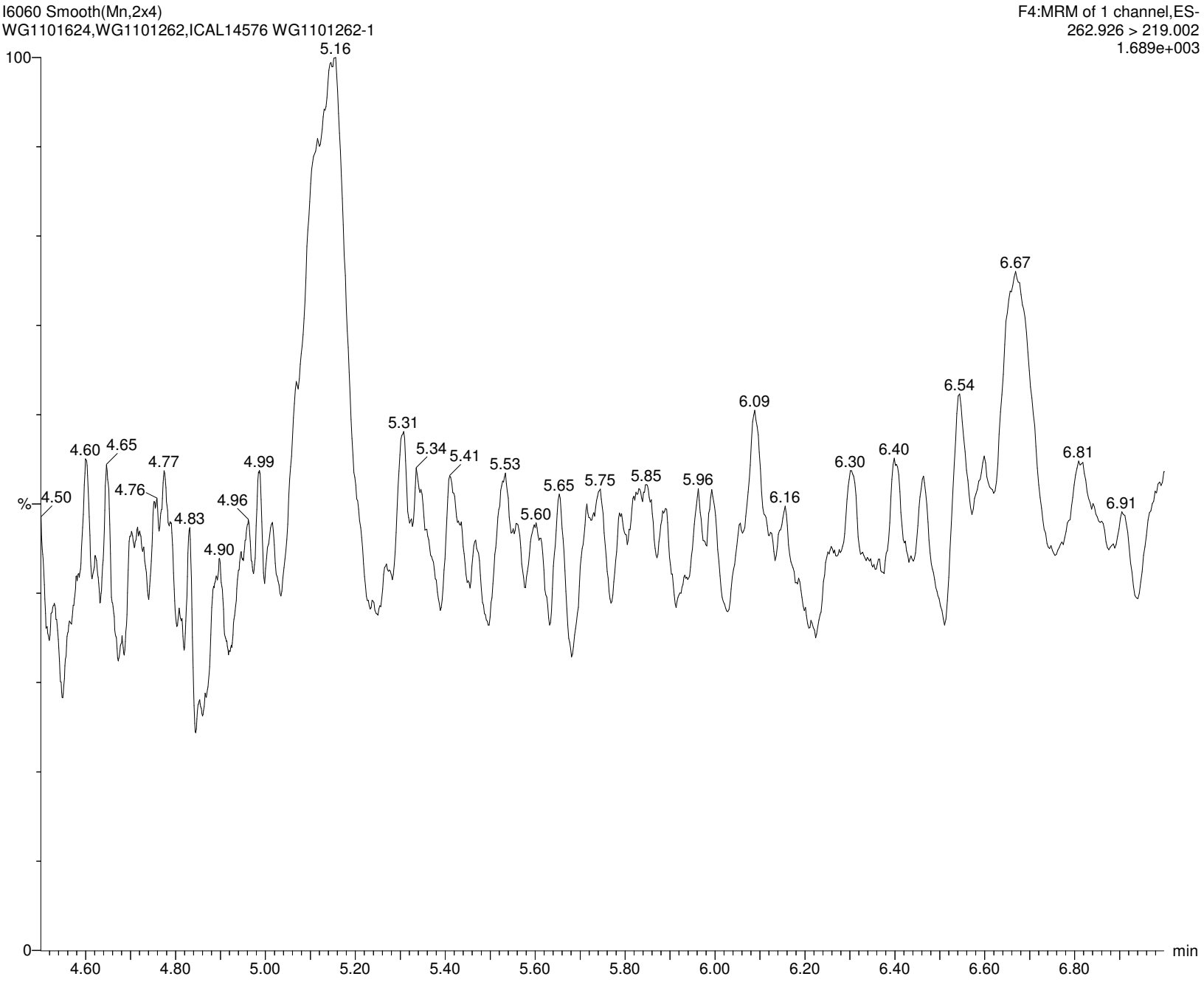

all concentration units in (ng/mL)

Alpha Analytical Inc.
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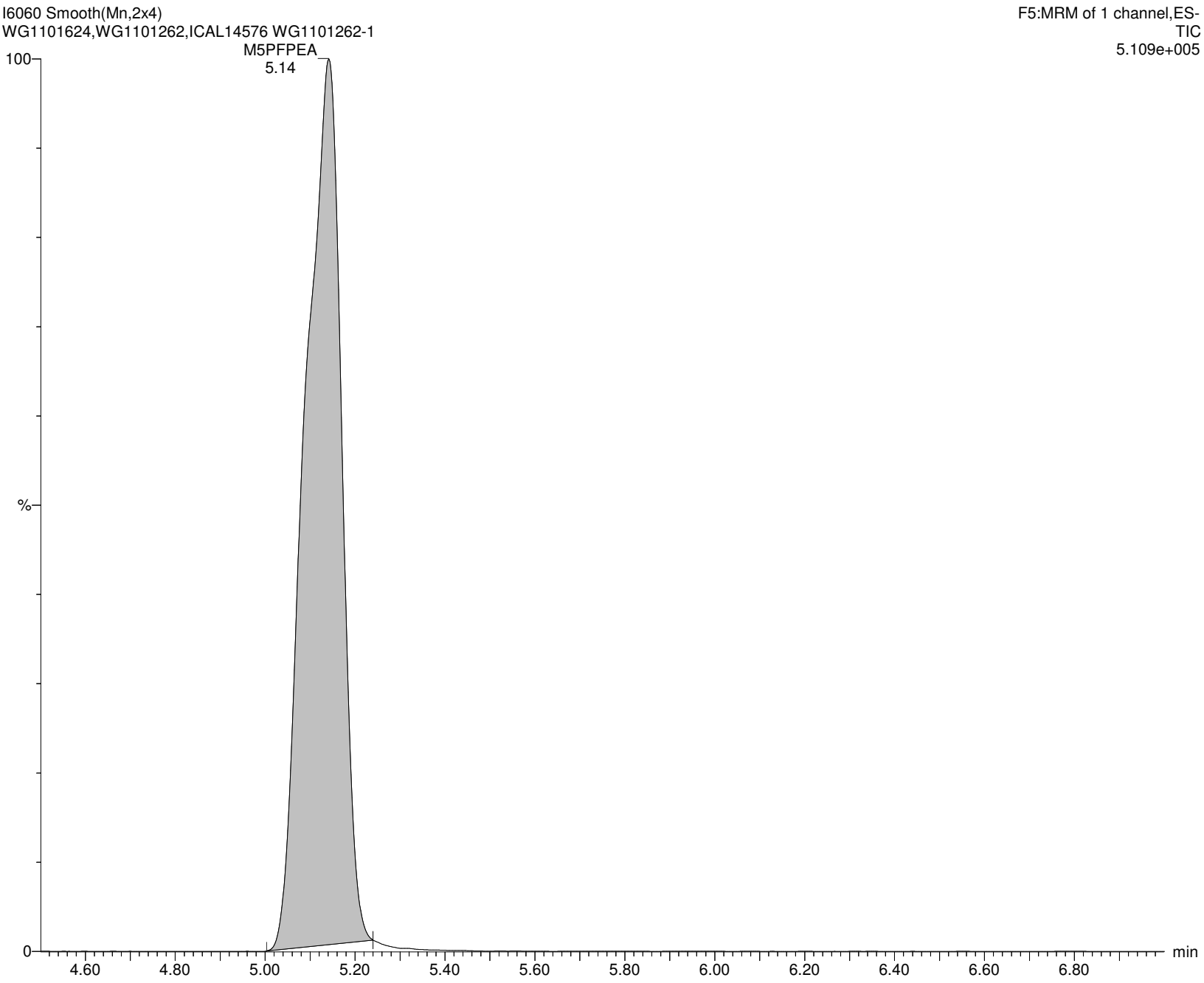

all concentration units in (ng/mL)

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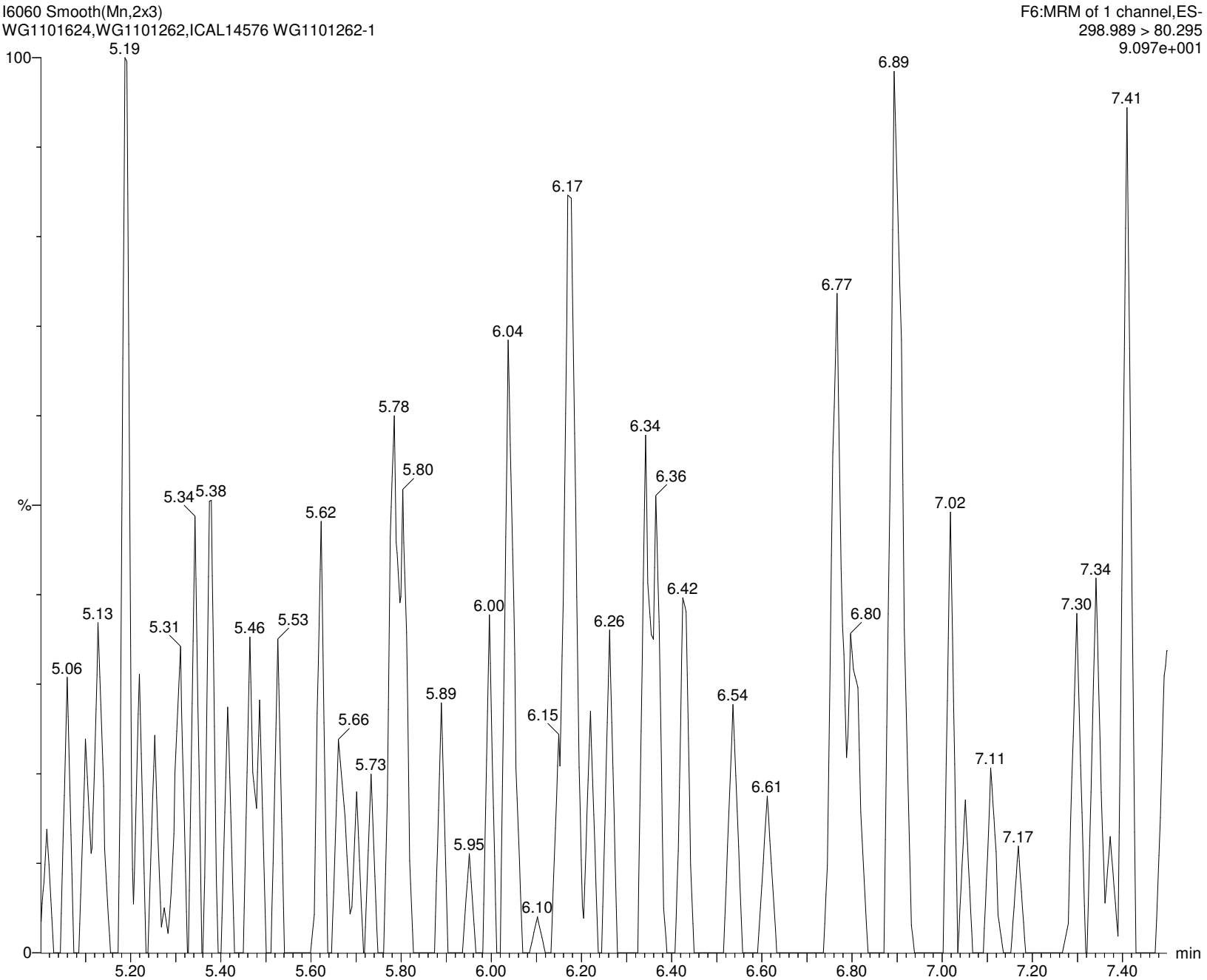

all concentration units in (ng/mL)

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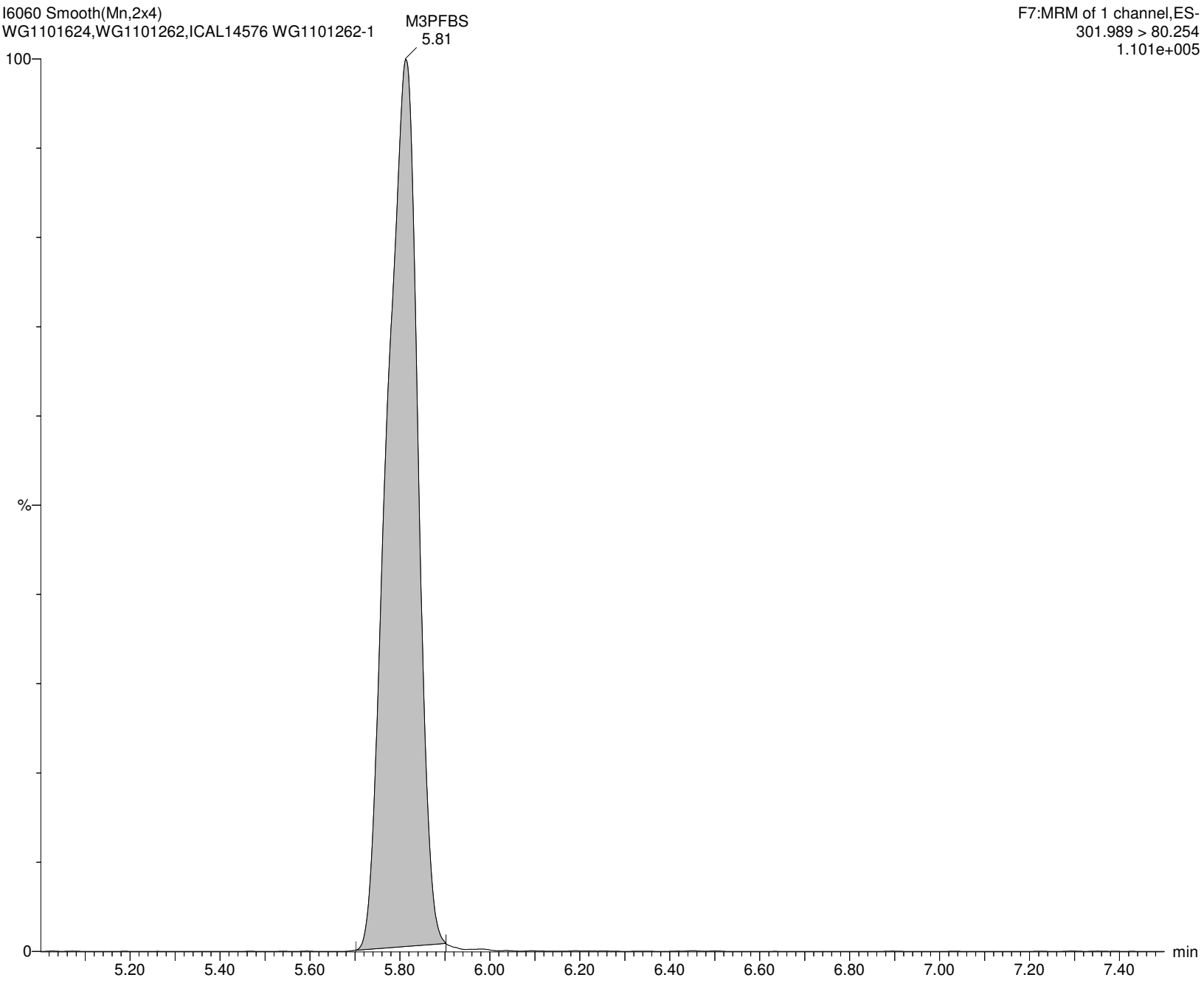

all concentration units in (ng/mL)

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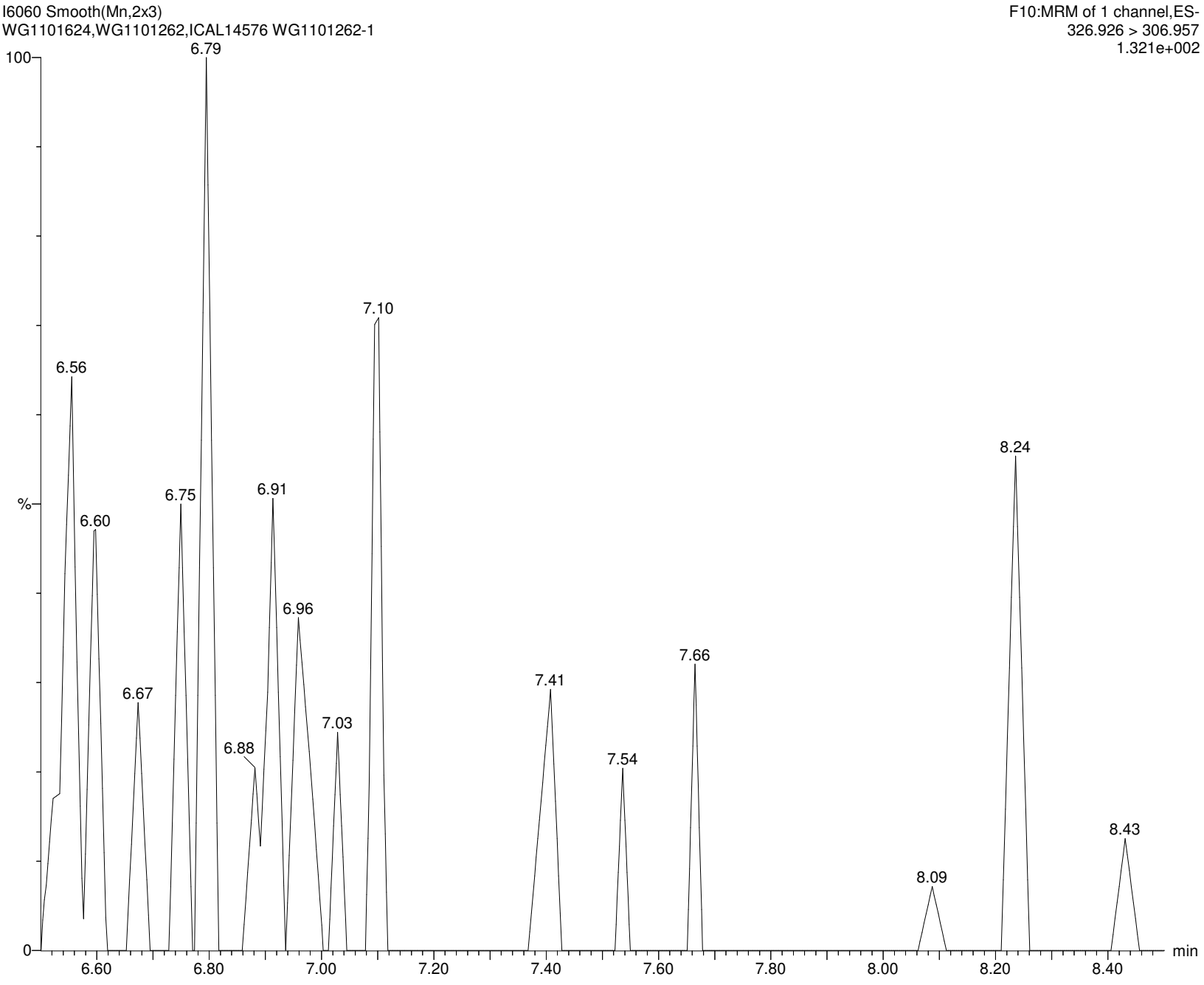
4:2FTS



all concentration units in (ng/mL)

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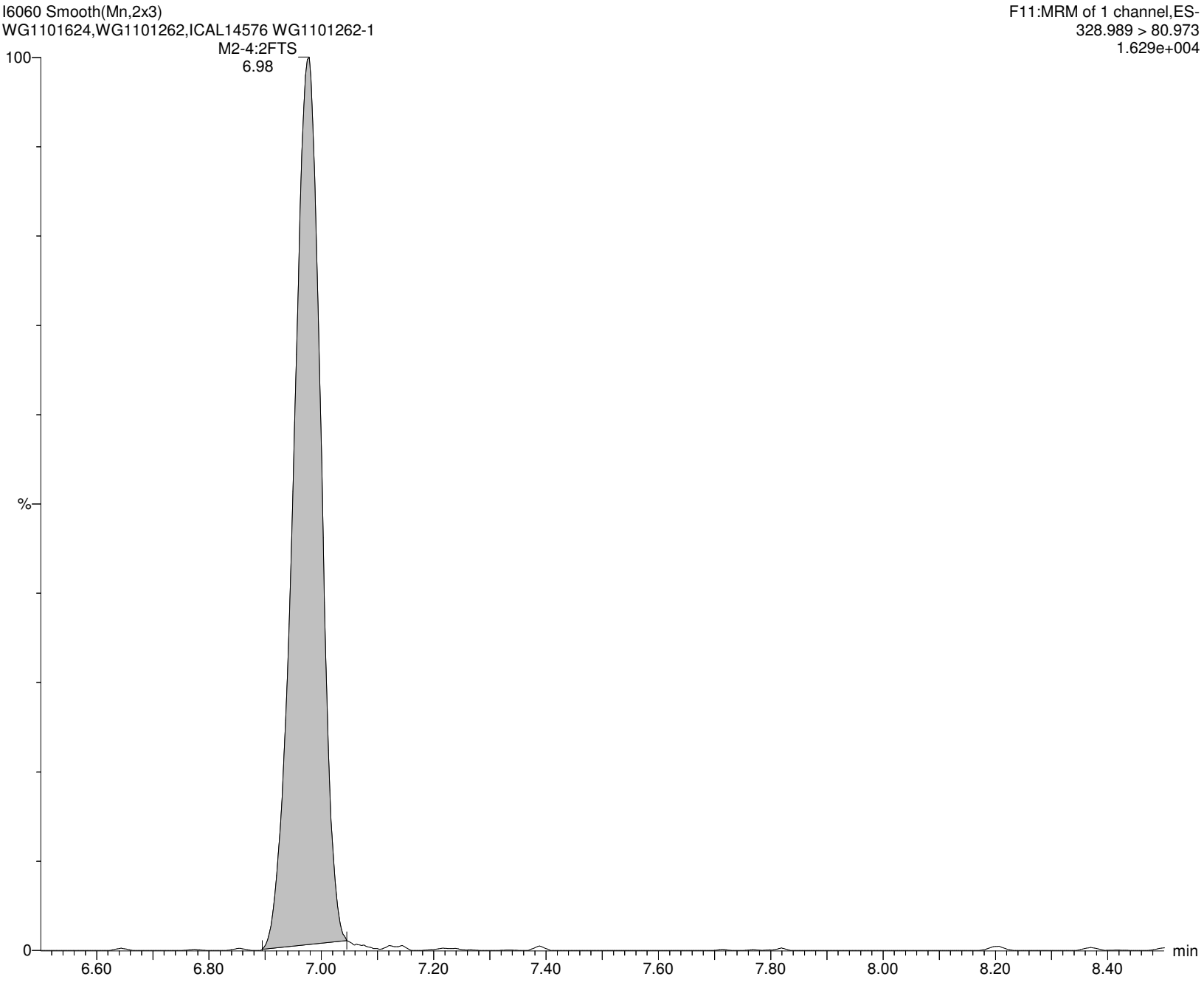

all concentration units in (ng/mL)

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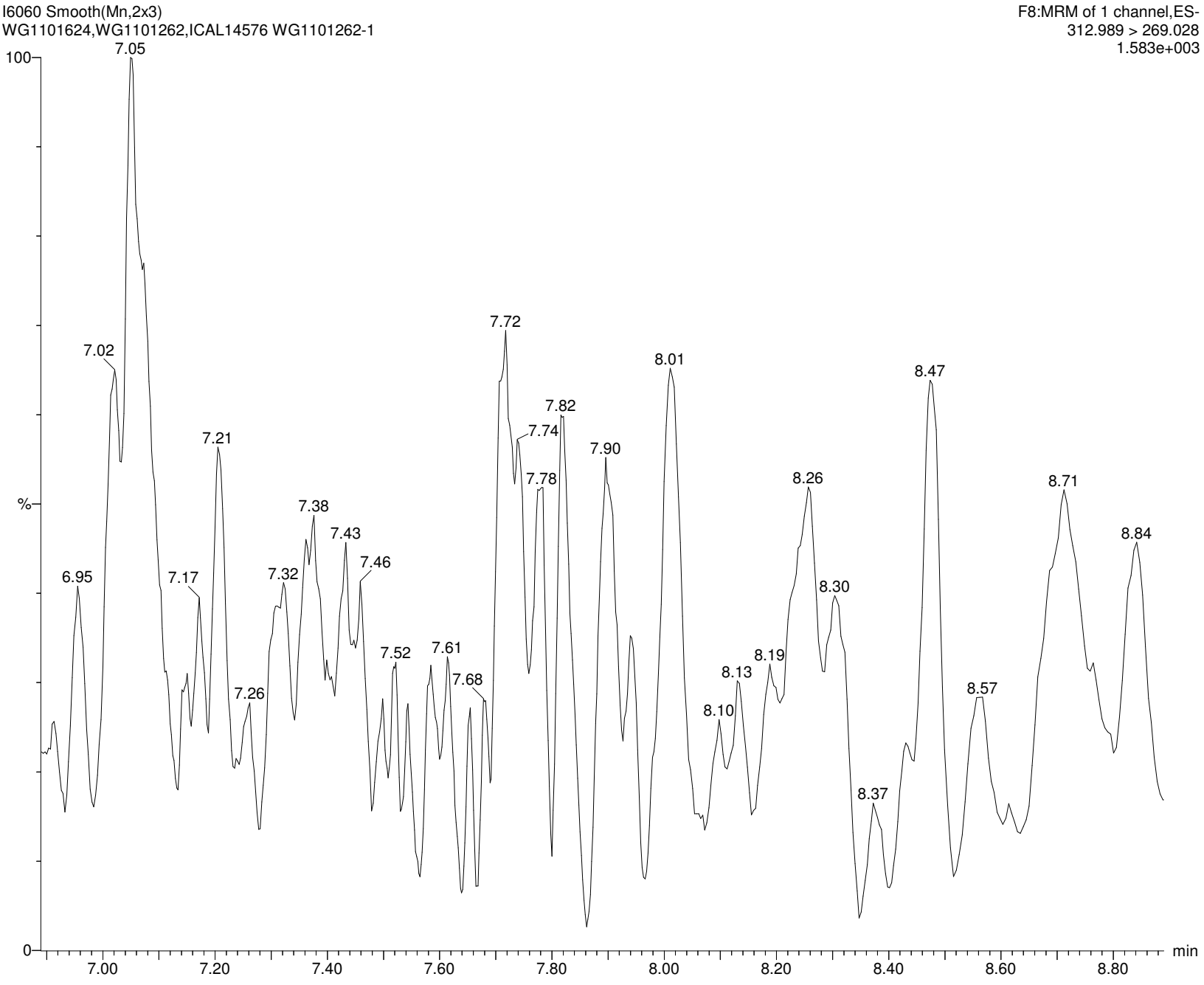

all concentration units in (ng/mL)

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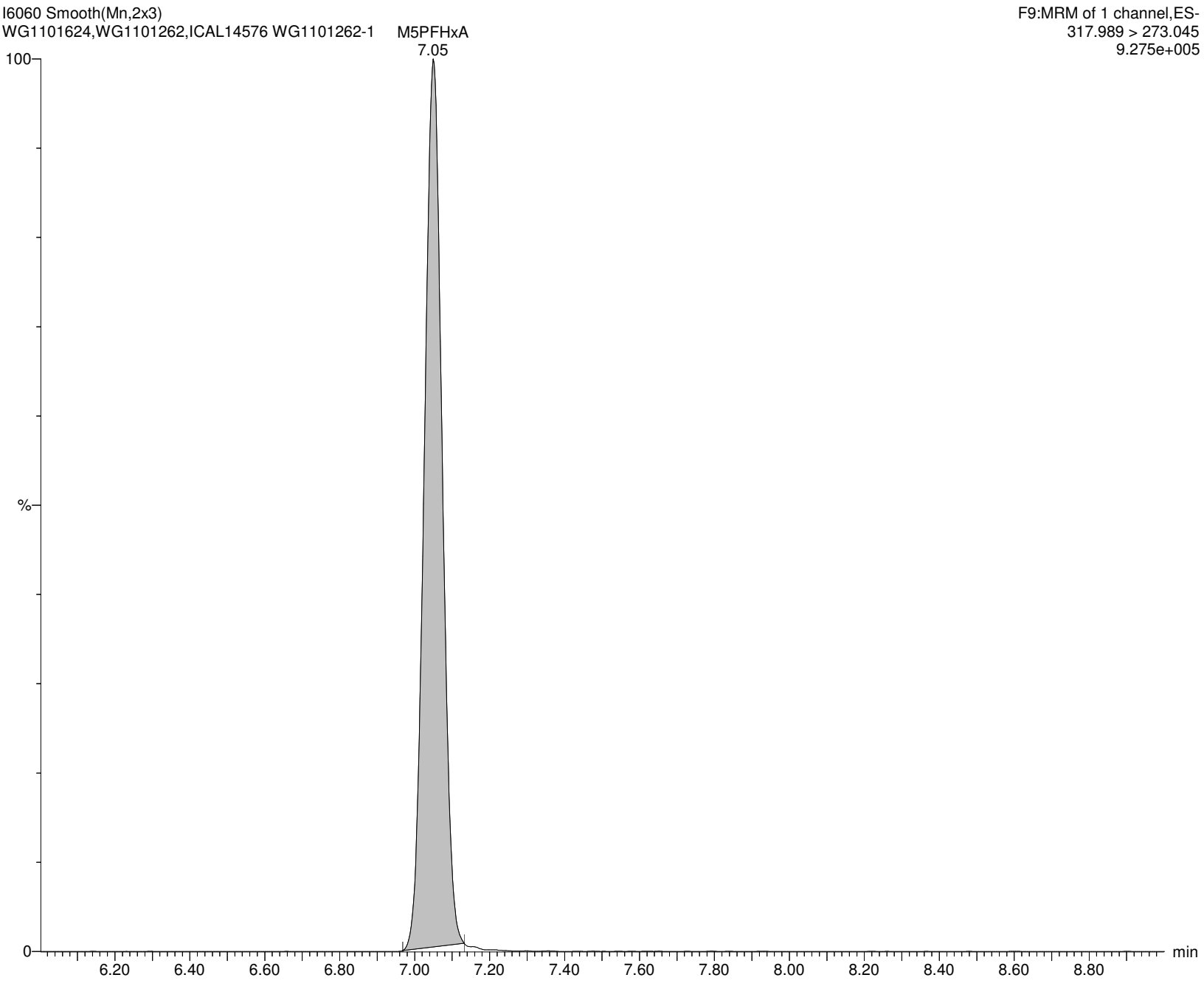

all concentration units in (ng/mL)

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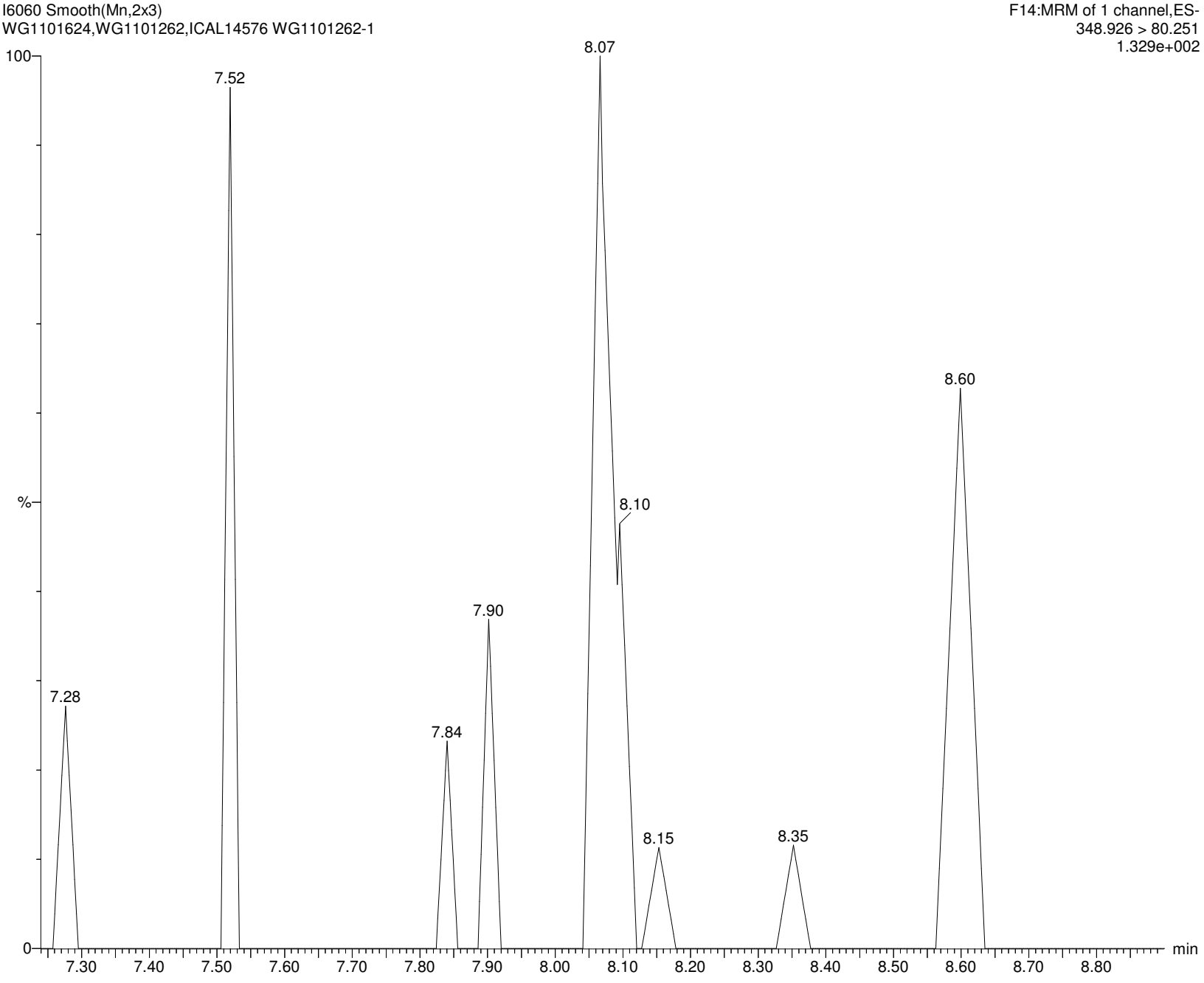

all concentration units in (ng/mL)

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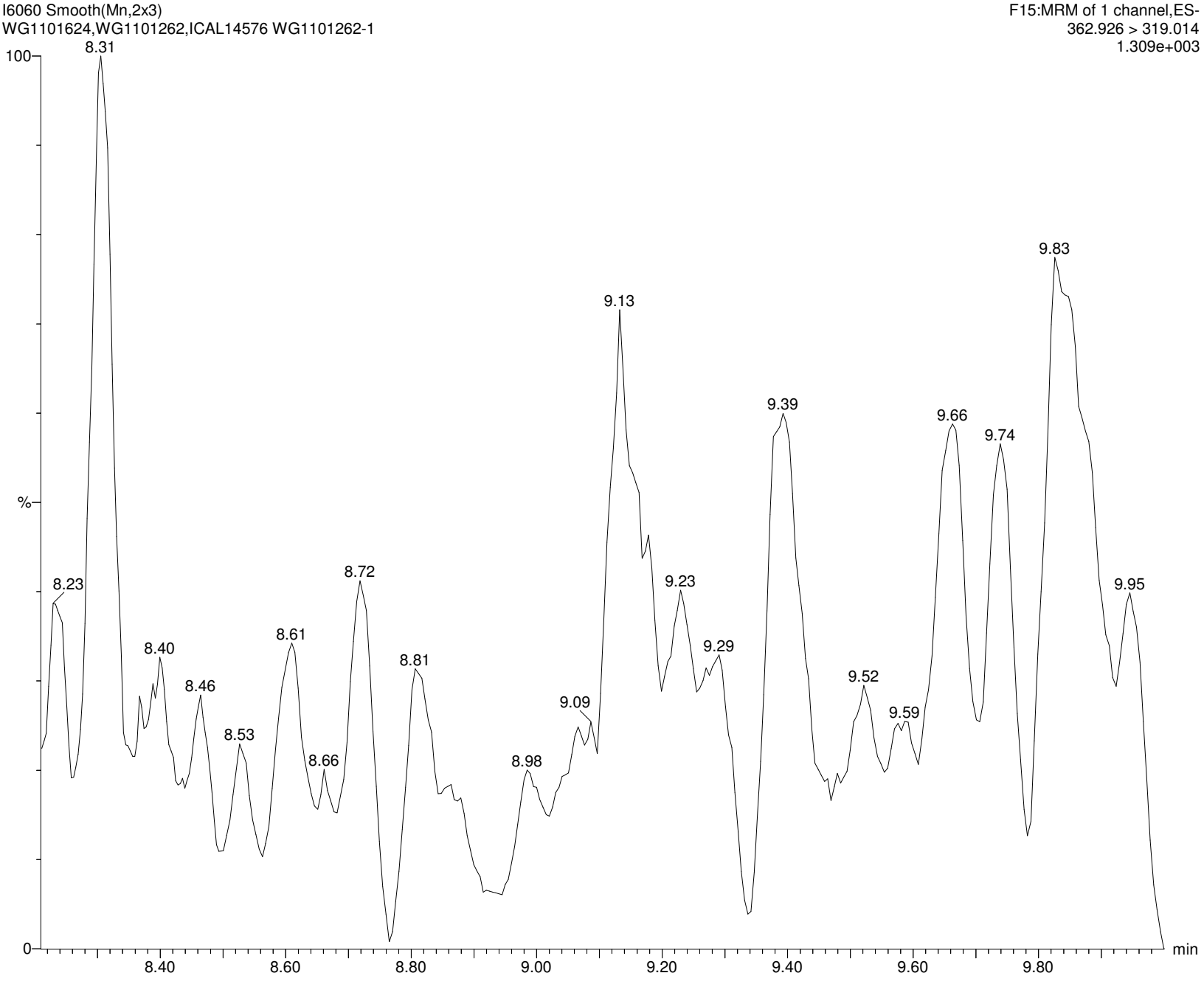

all concentration units in (ng/mL)

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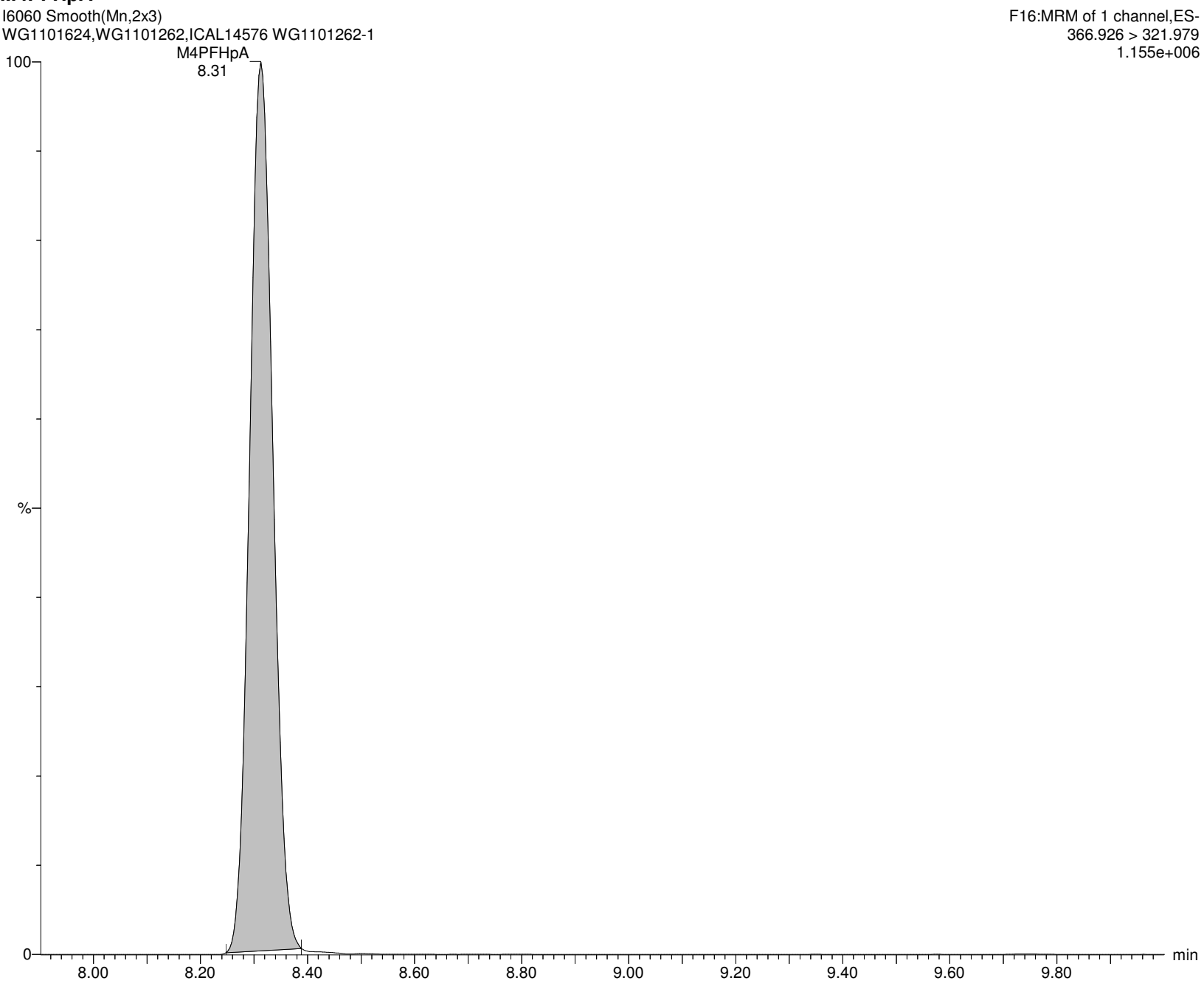

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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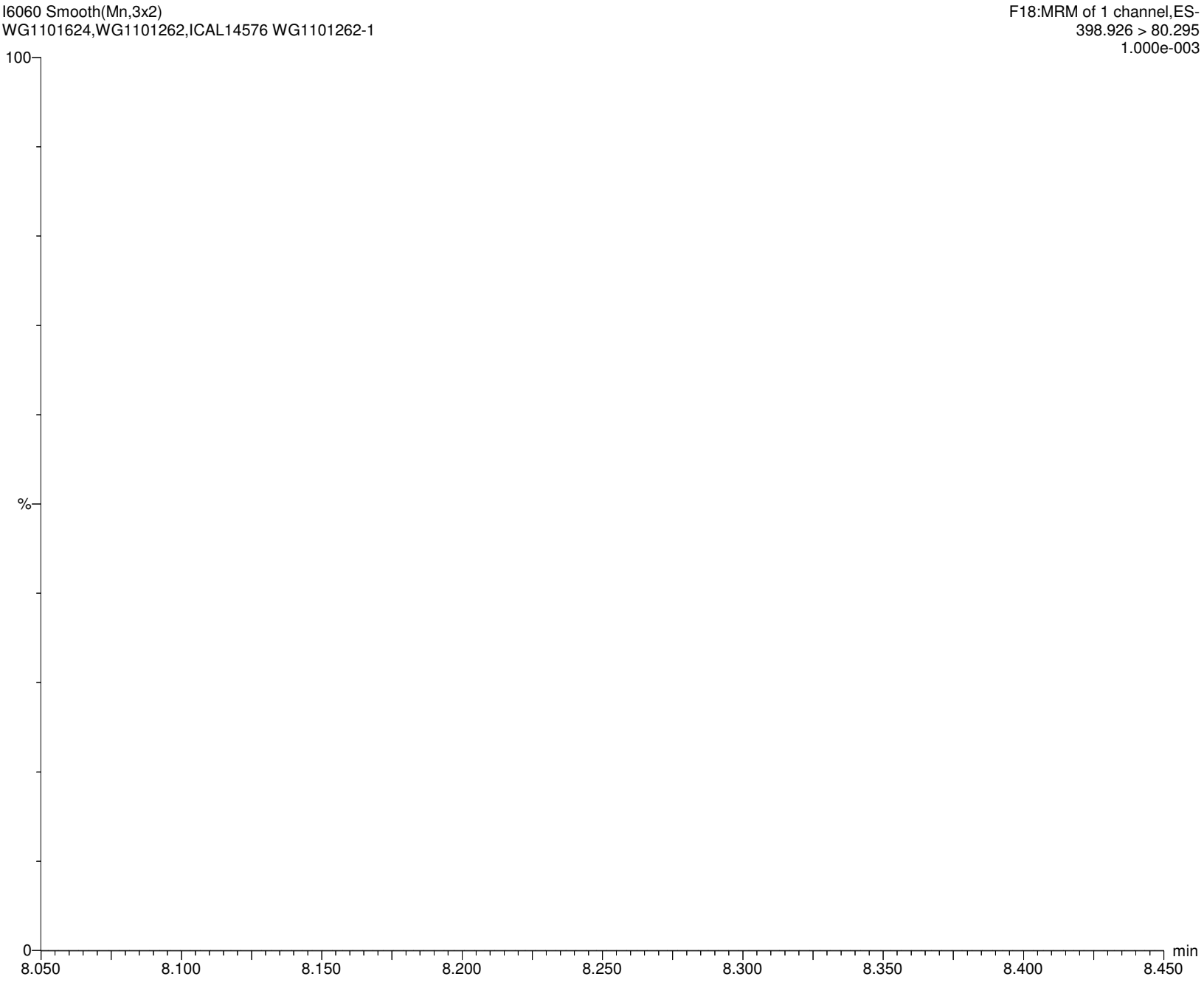

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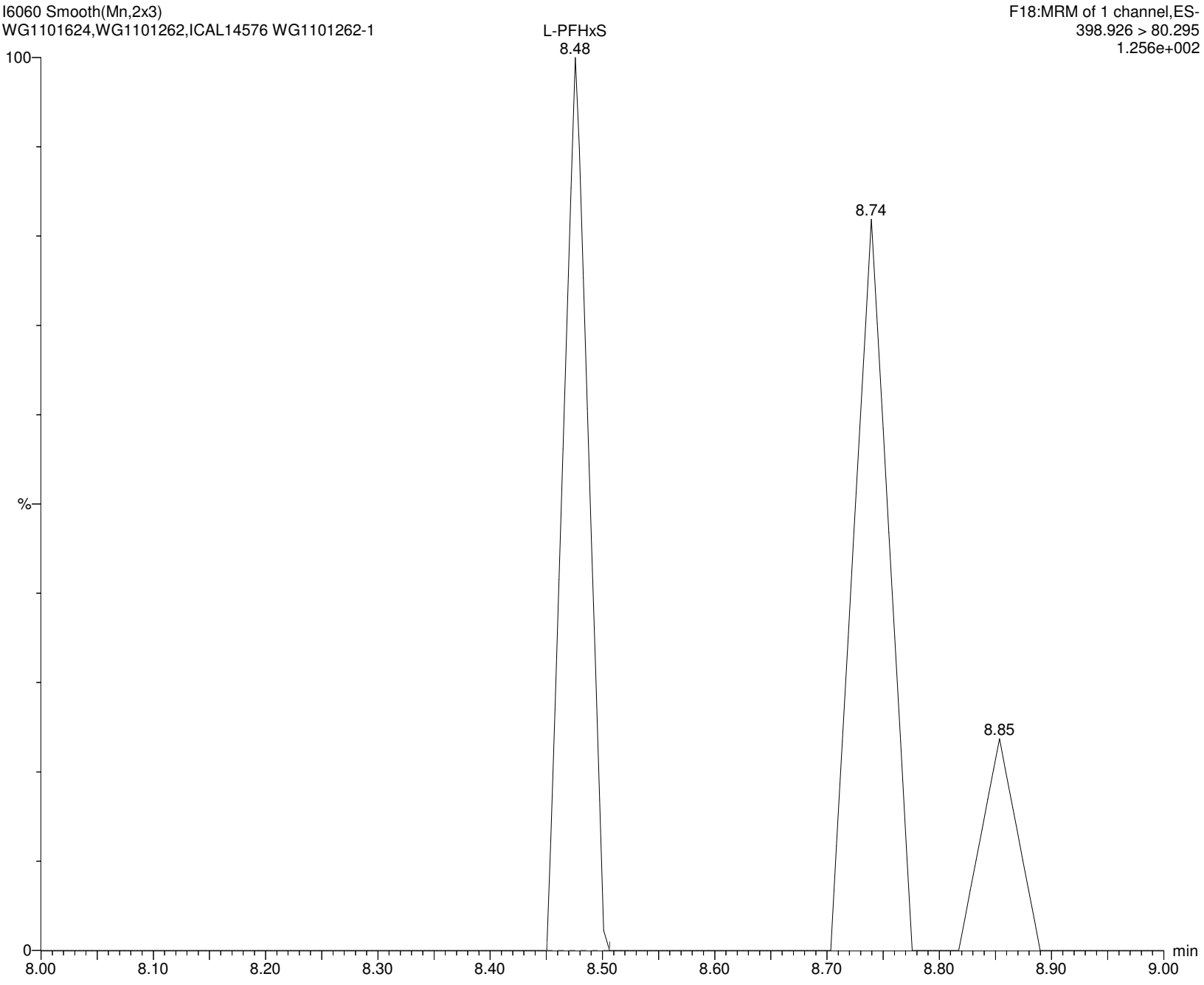
L-PFHxS



all concentration units in (ng/mL)

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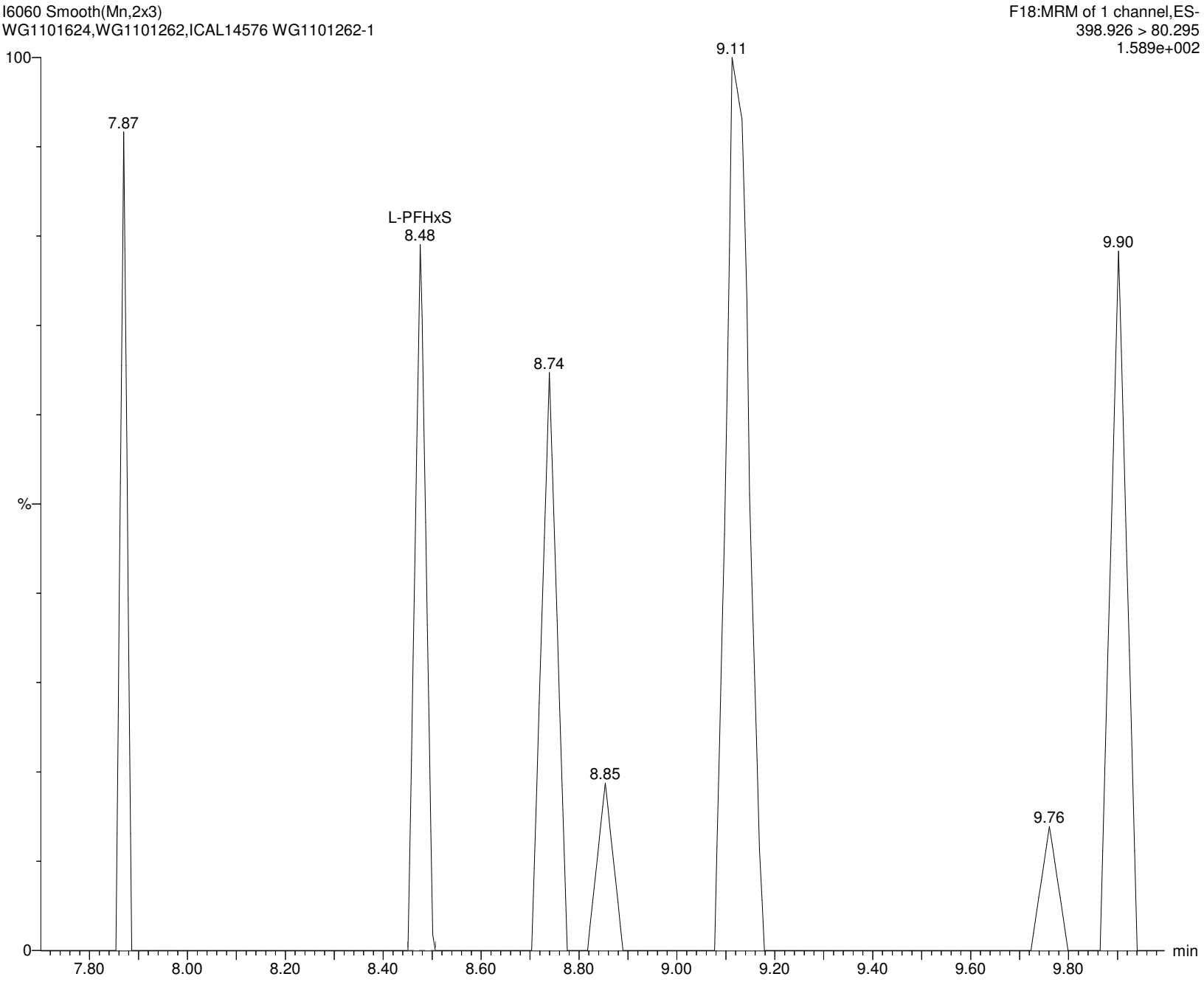

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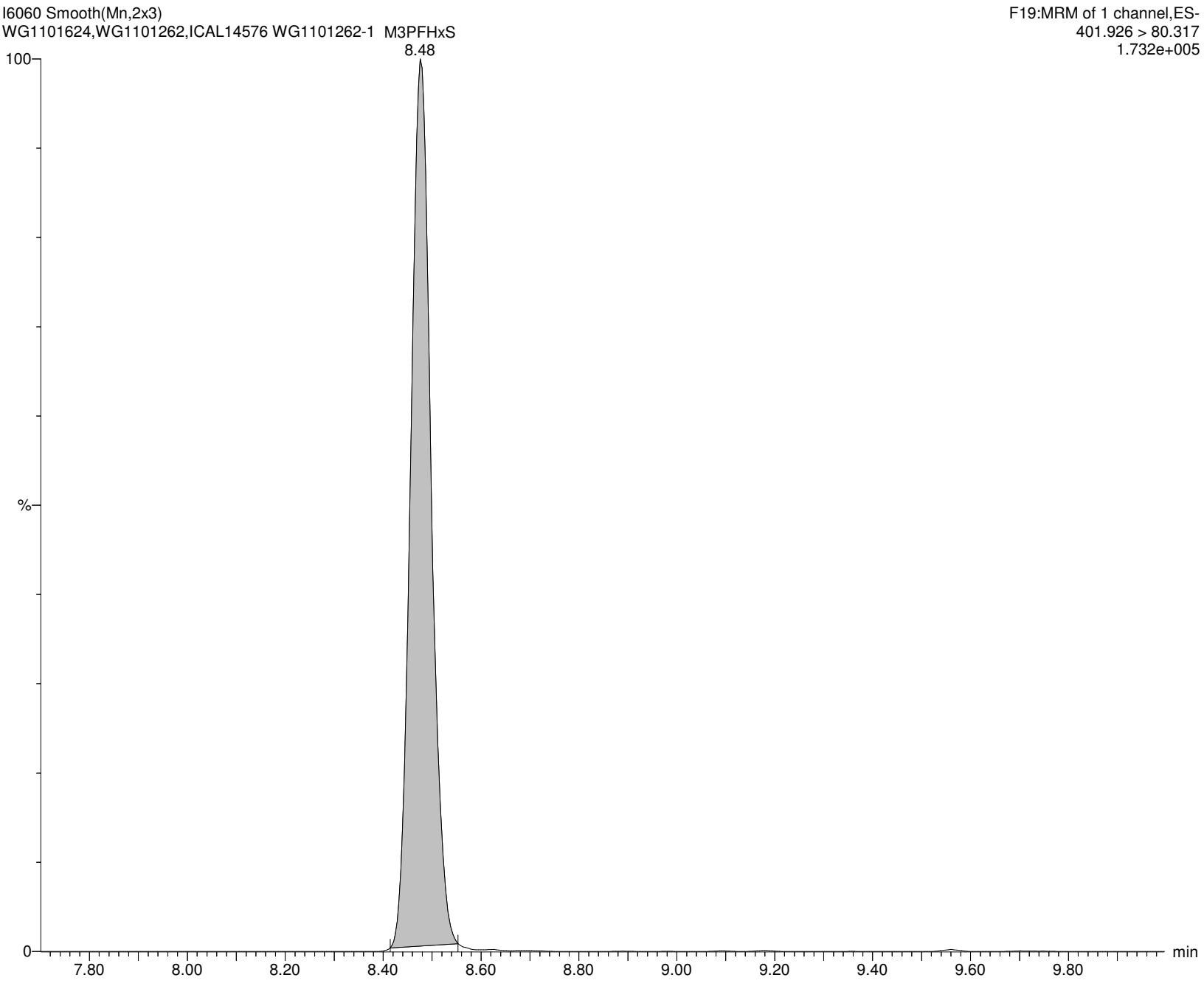

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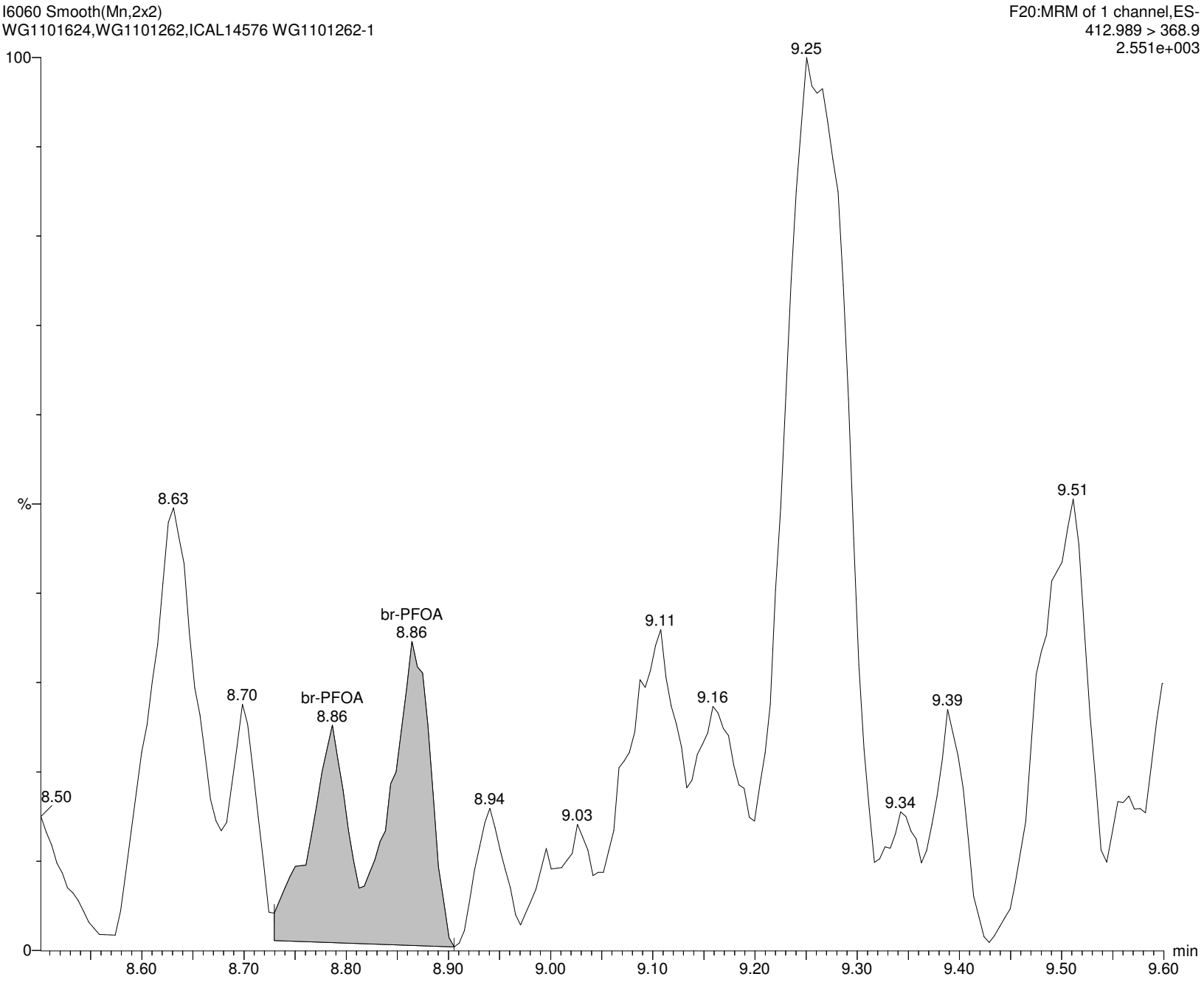

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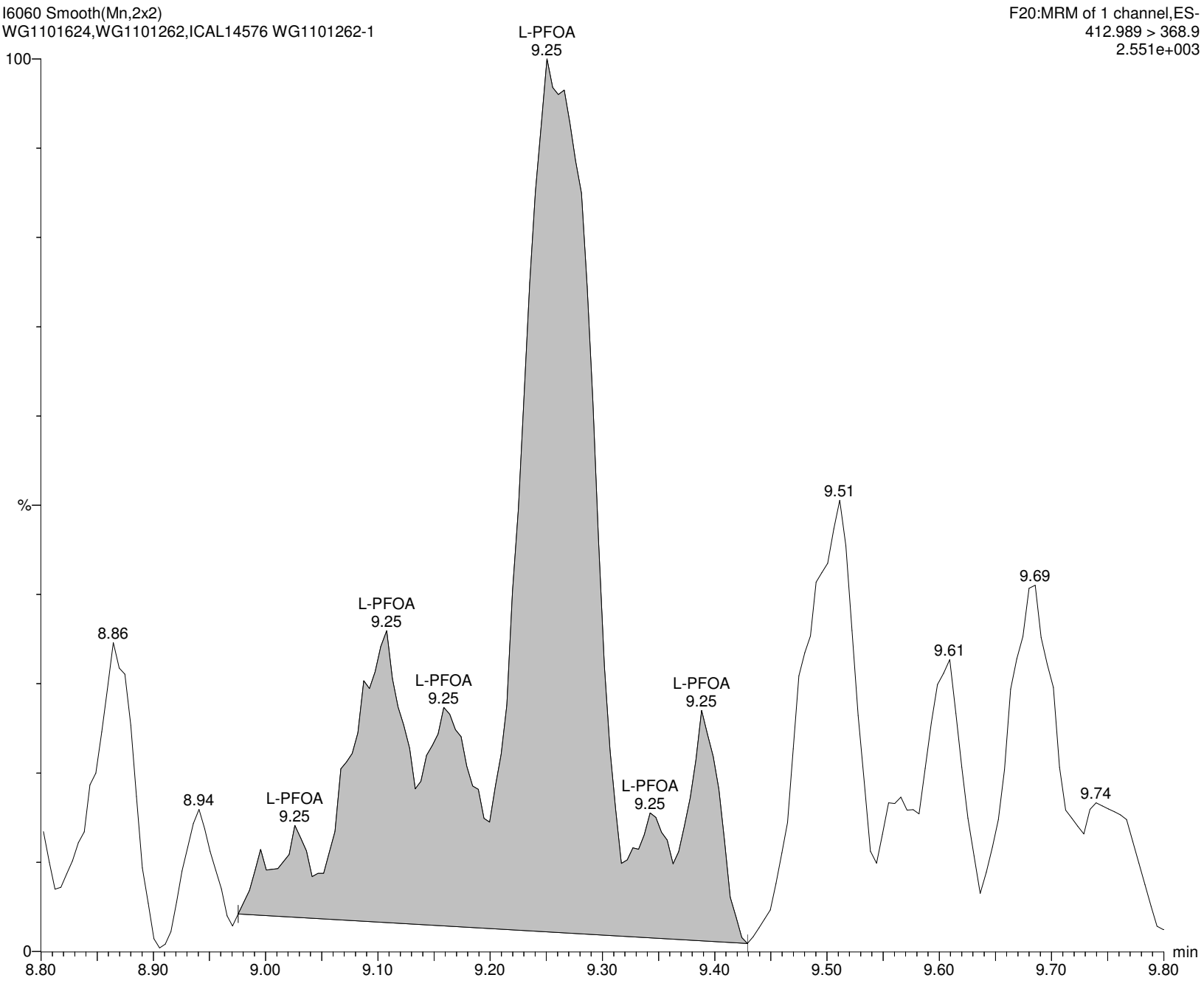
L-PFOA



all concentration units in (ng/mL)

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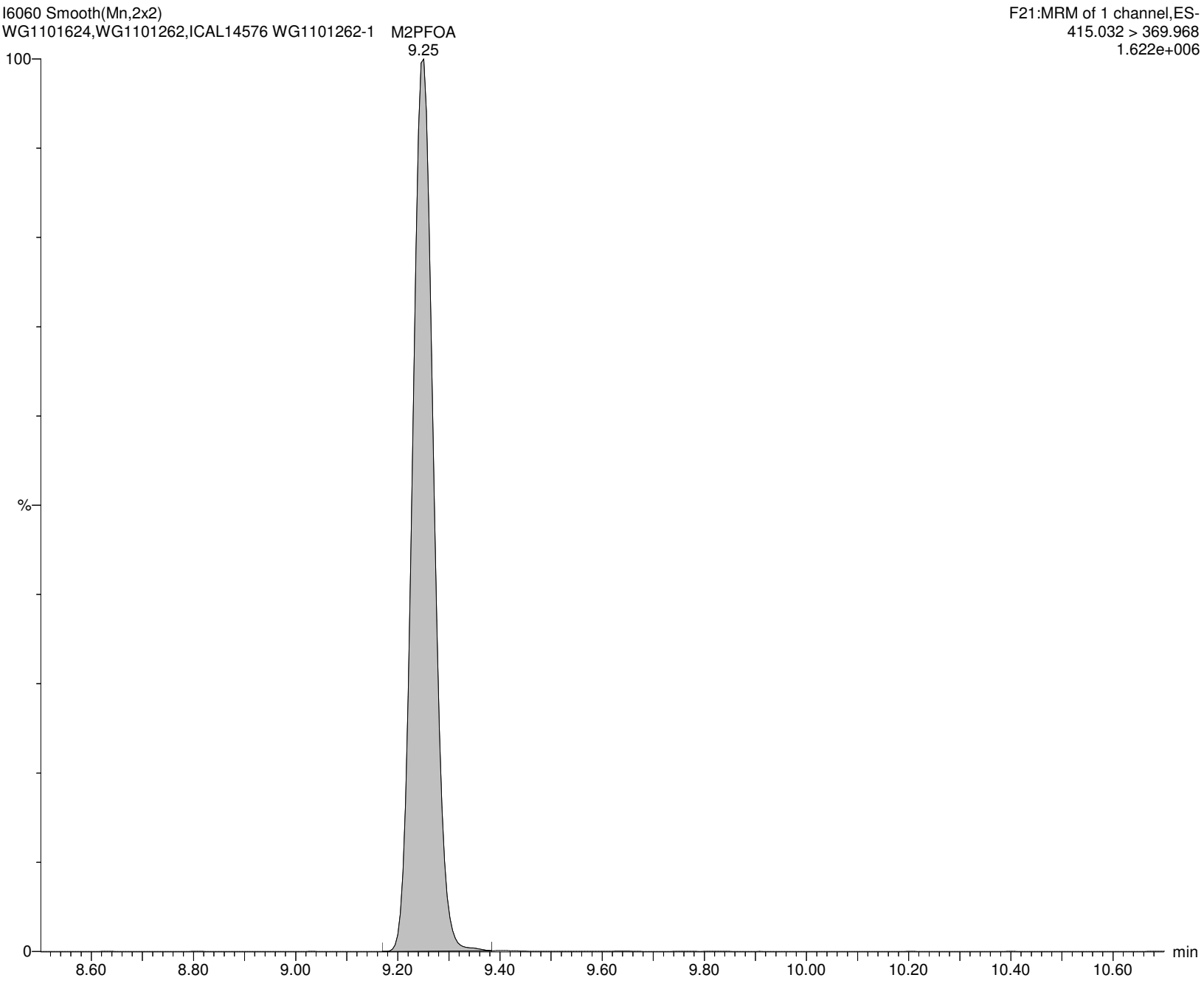

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

Name: I6060
ID: WG1101262-1
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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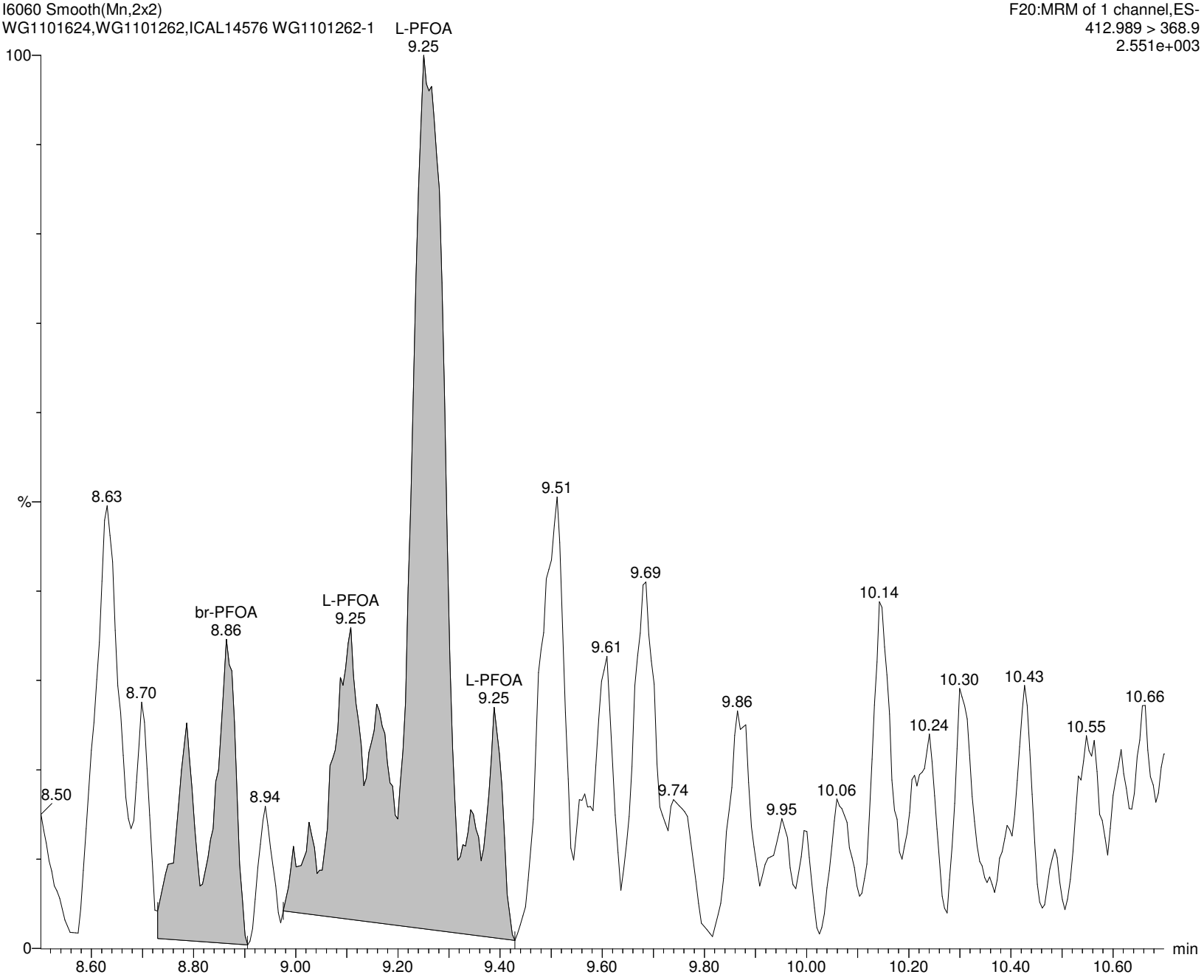

all concentration units in (ng/mL)

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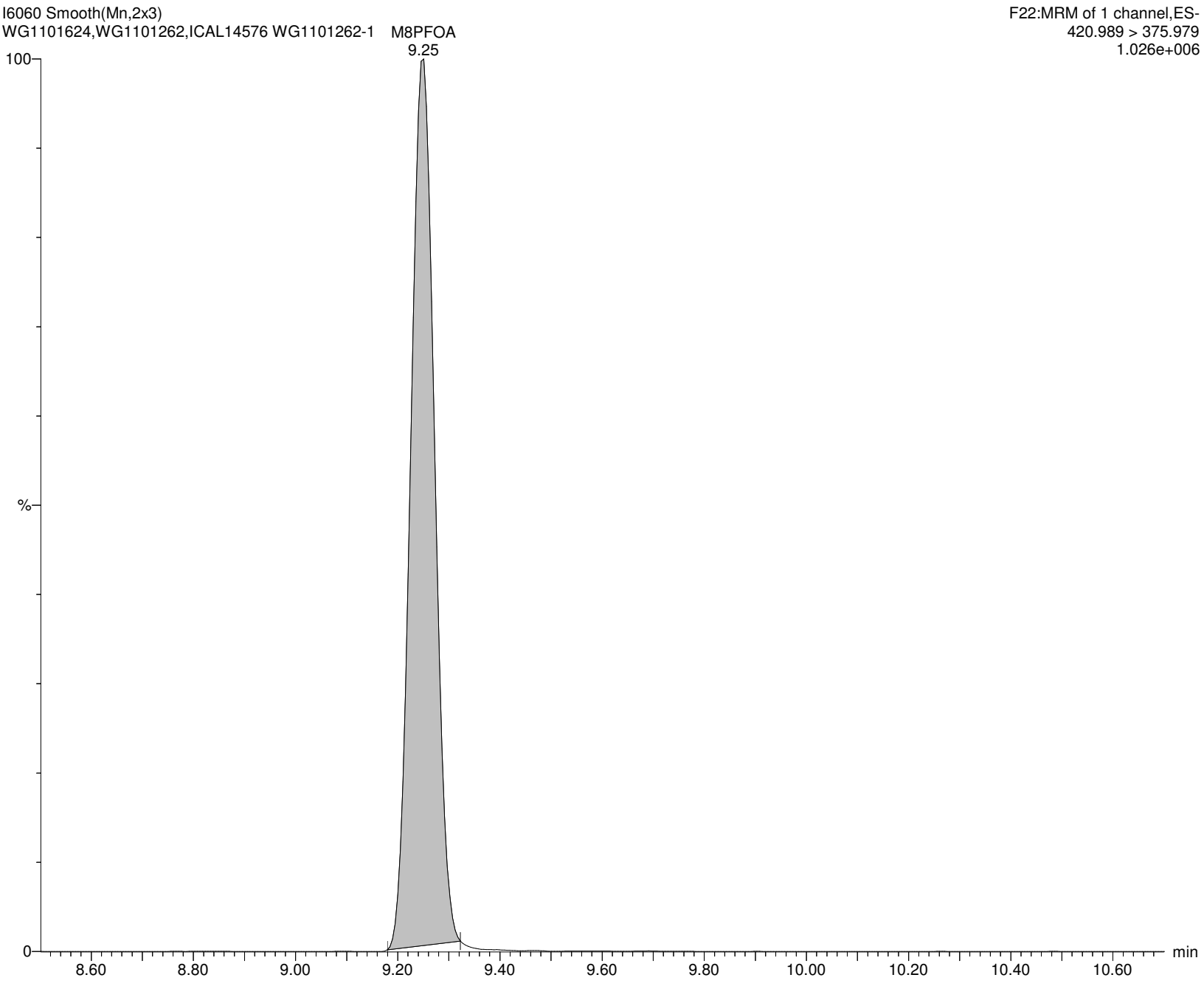

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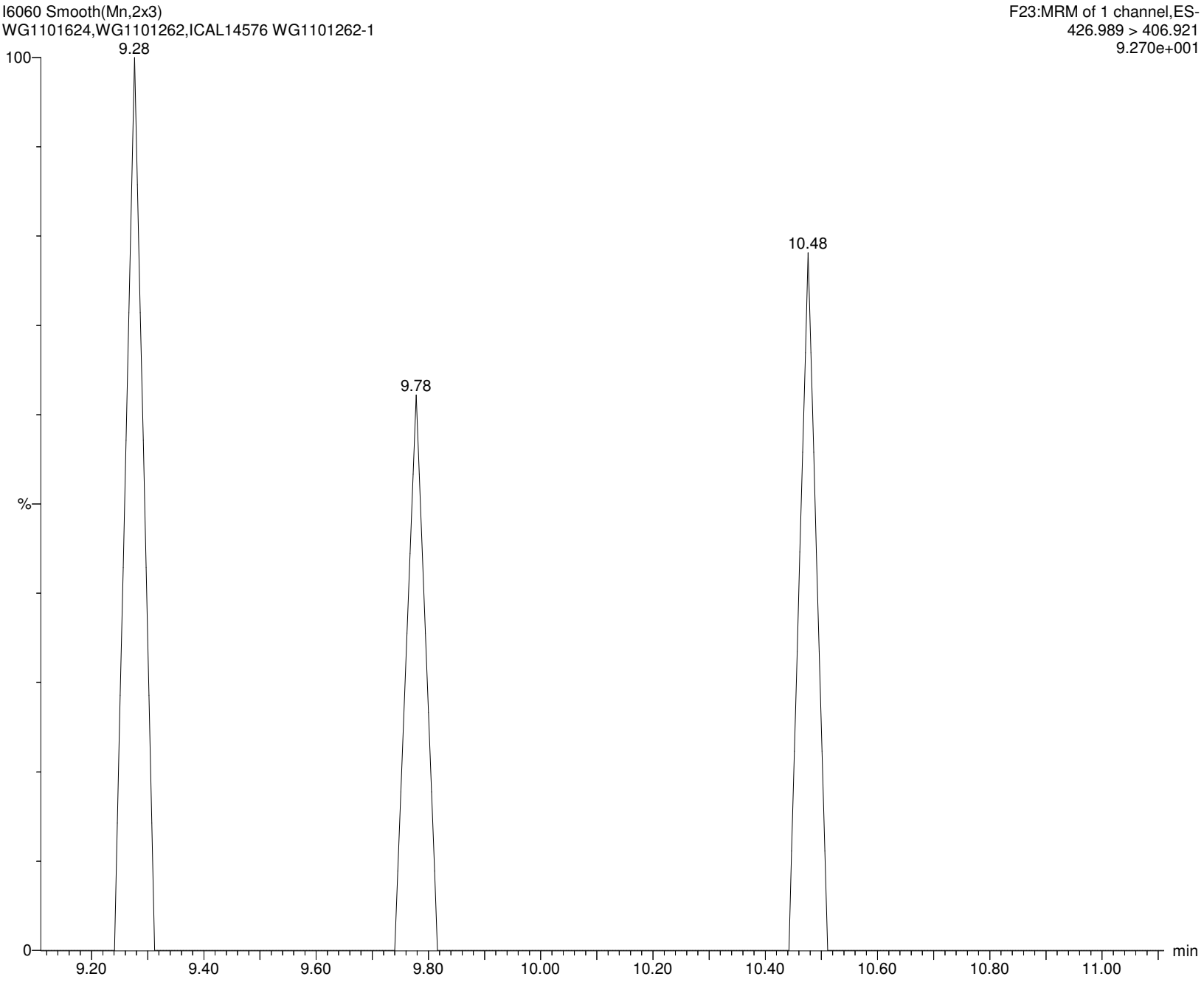
6:2FTS



all concentration units in (ng/mL)

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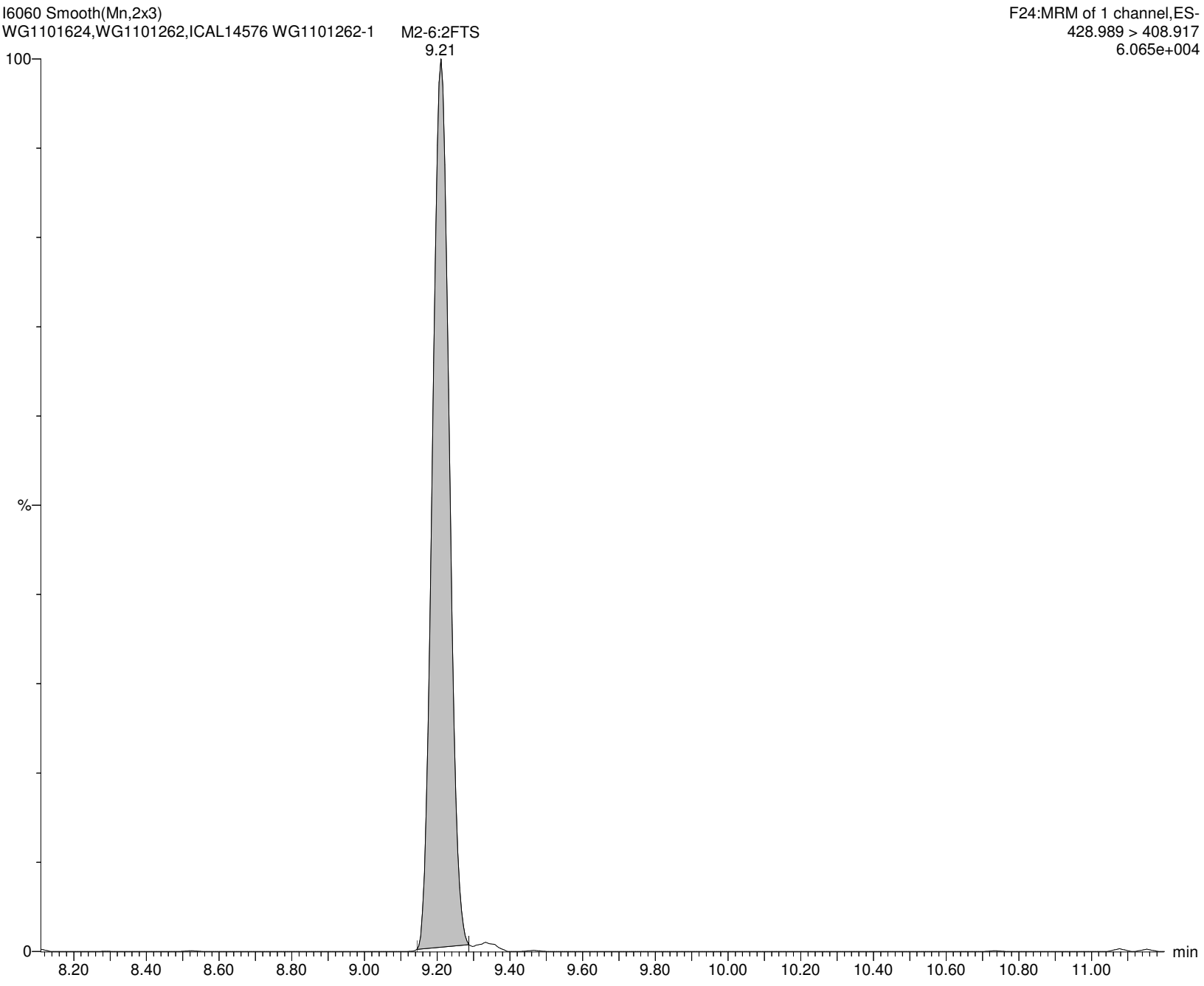

all concentration units in (ng/mL)

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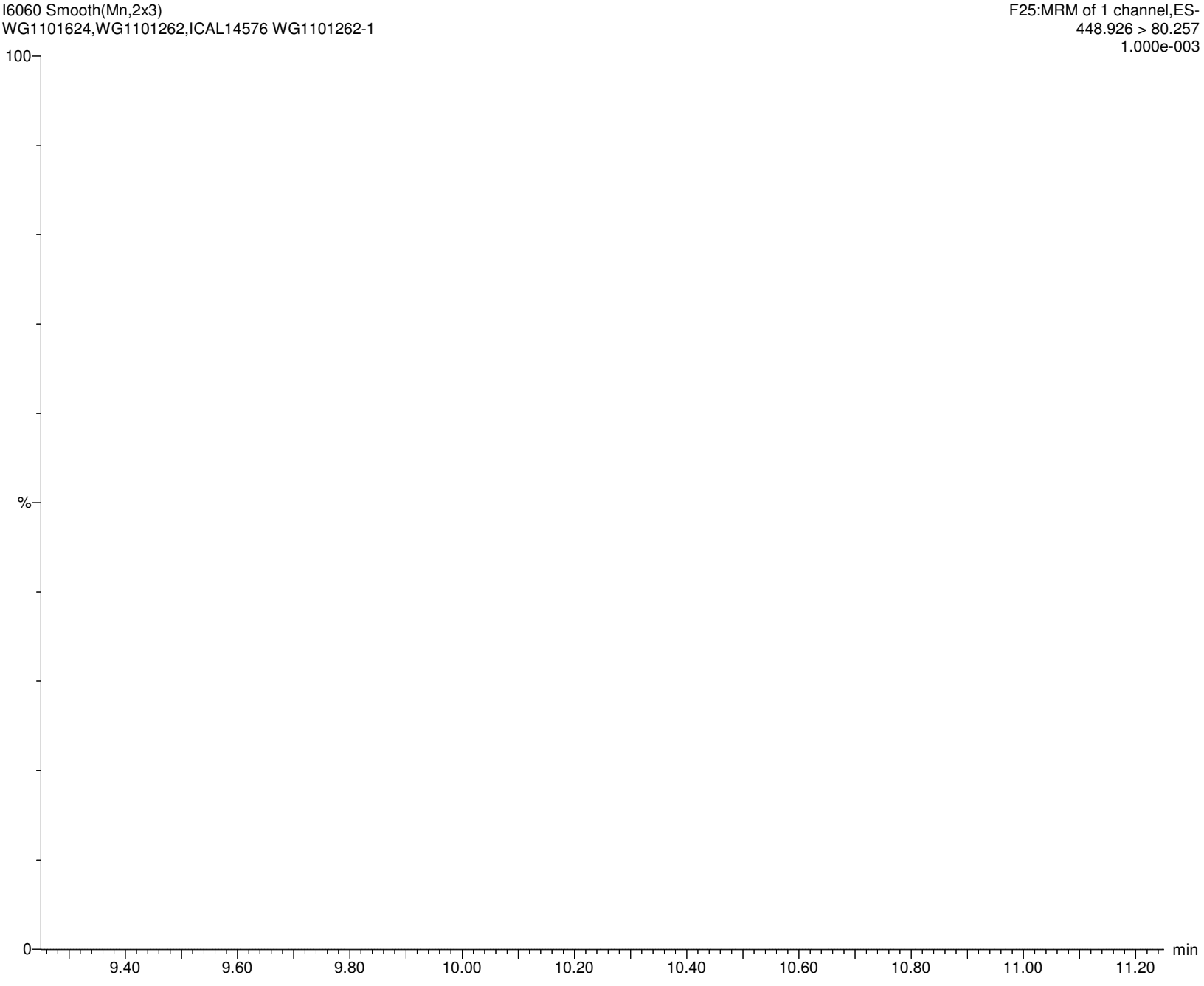
PFHpS



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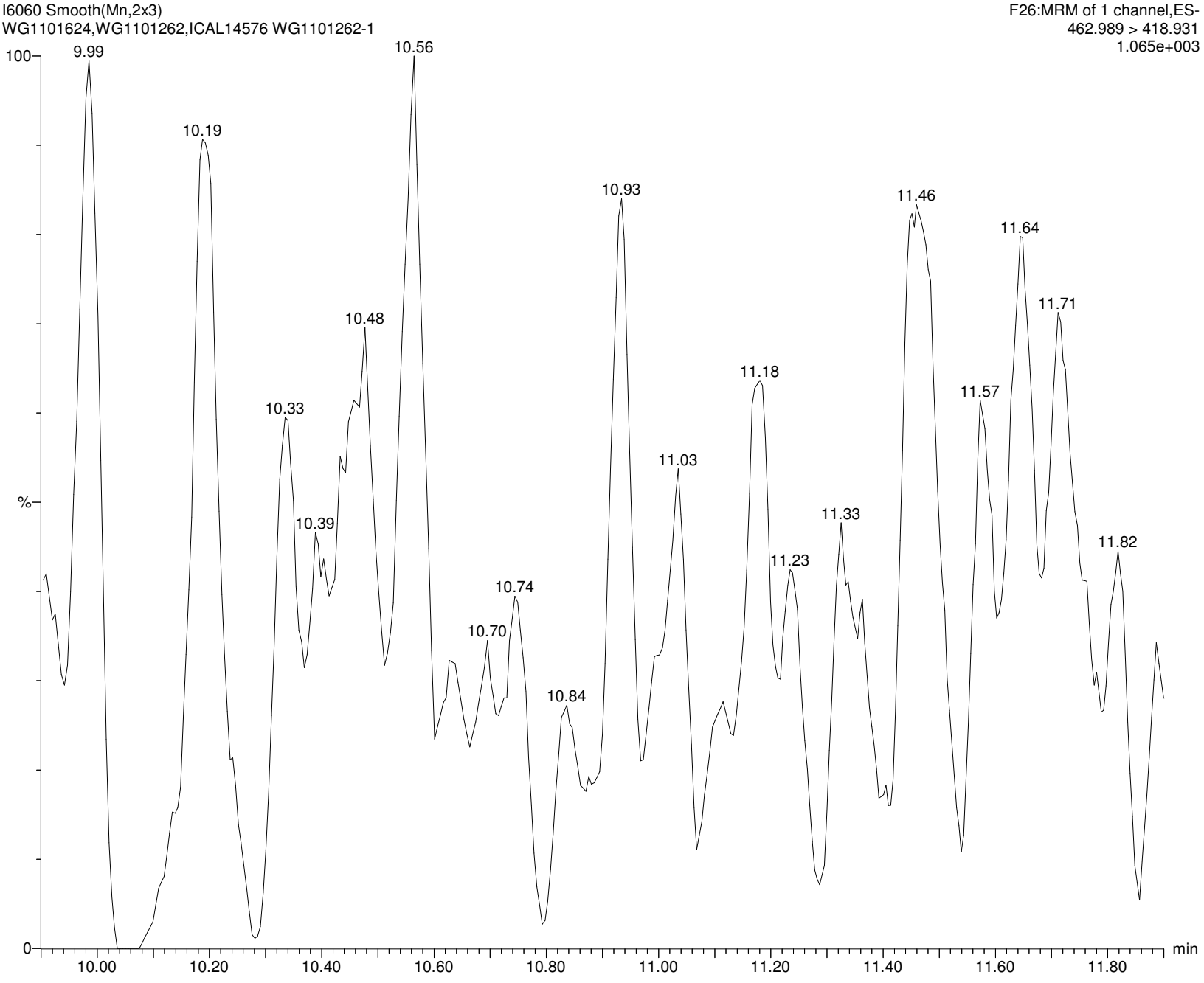

all concentration units in (ng/mL)

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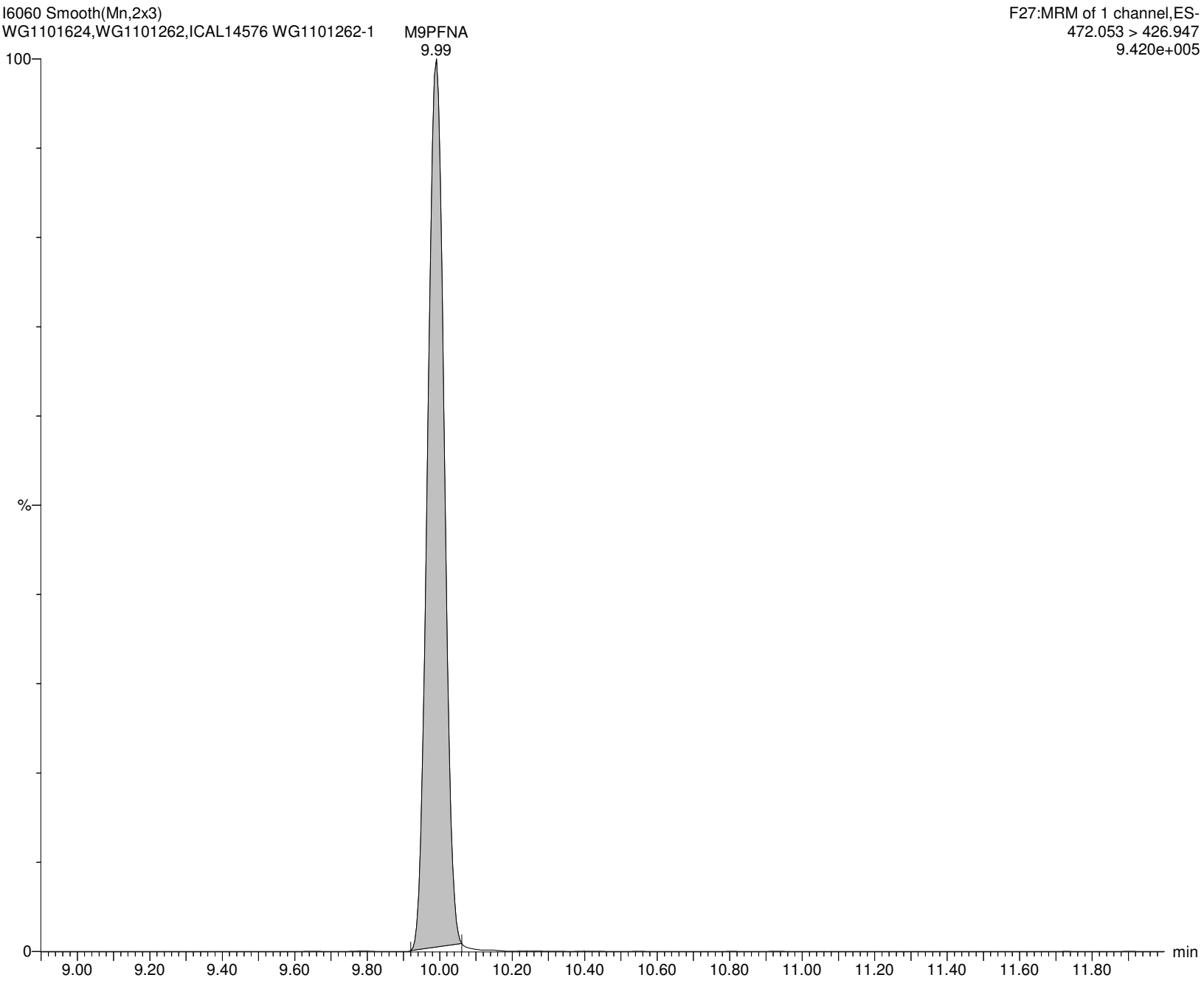

all concentration units in (ng/mL)

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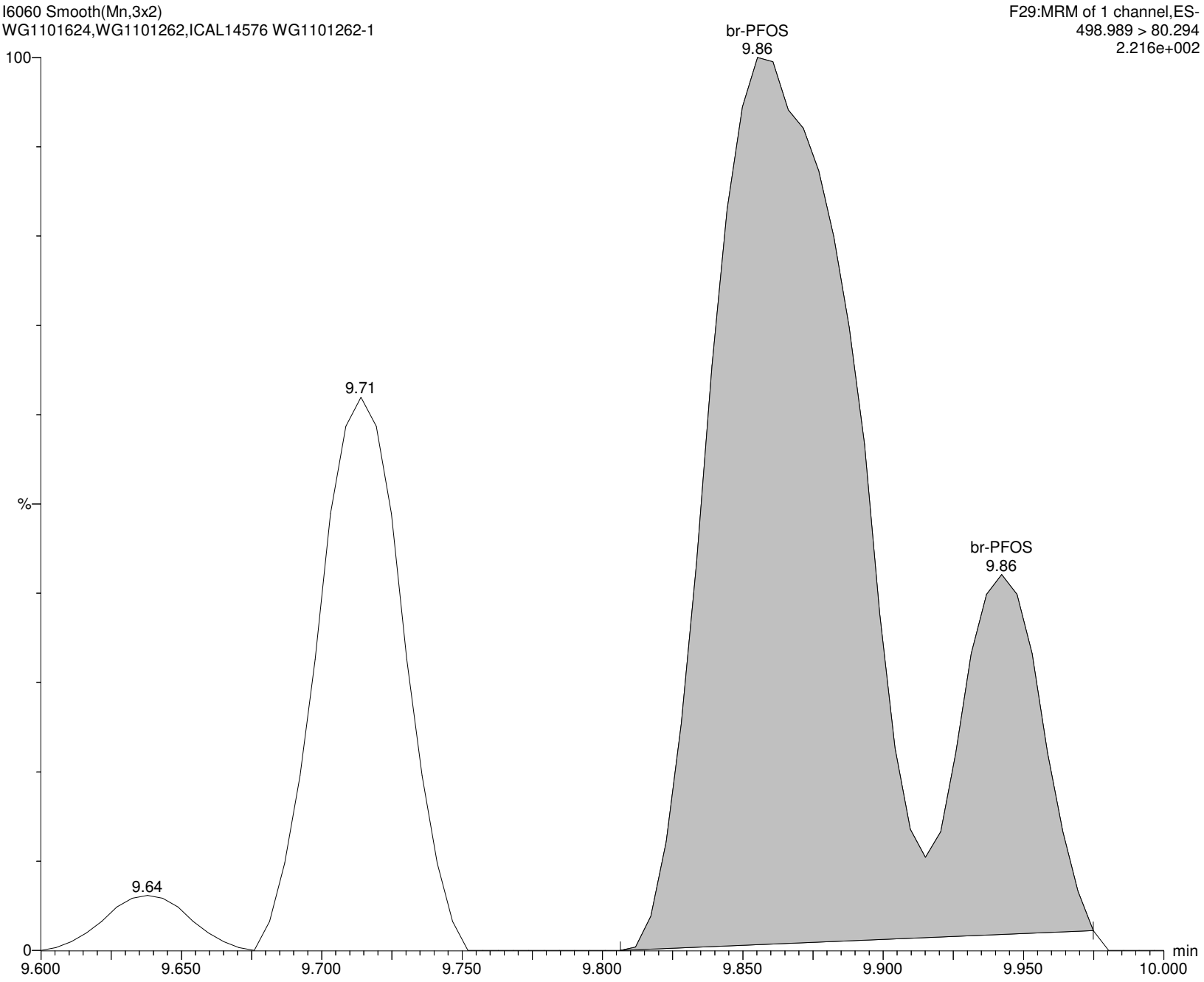

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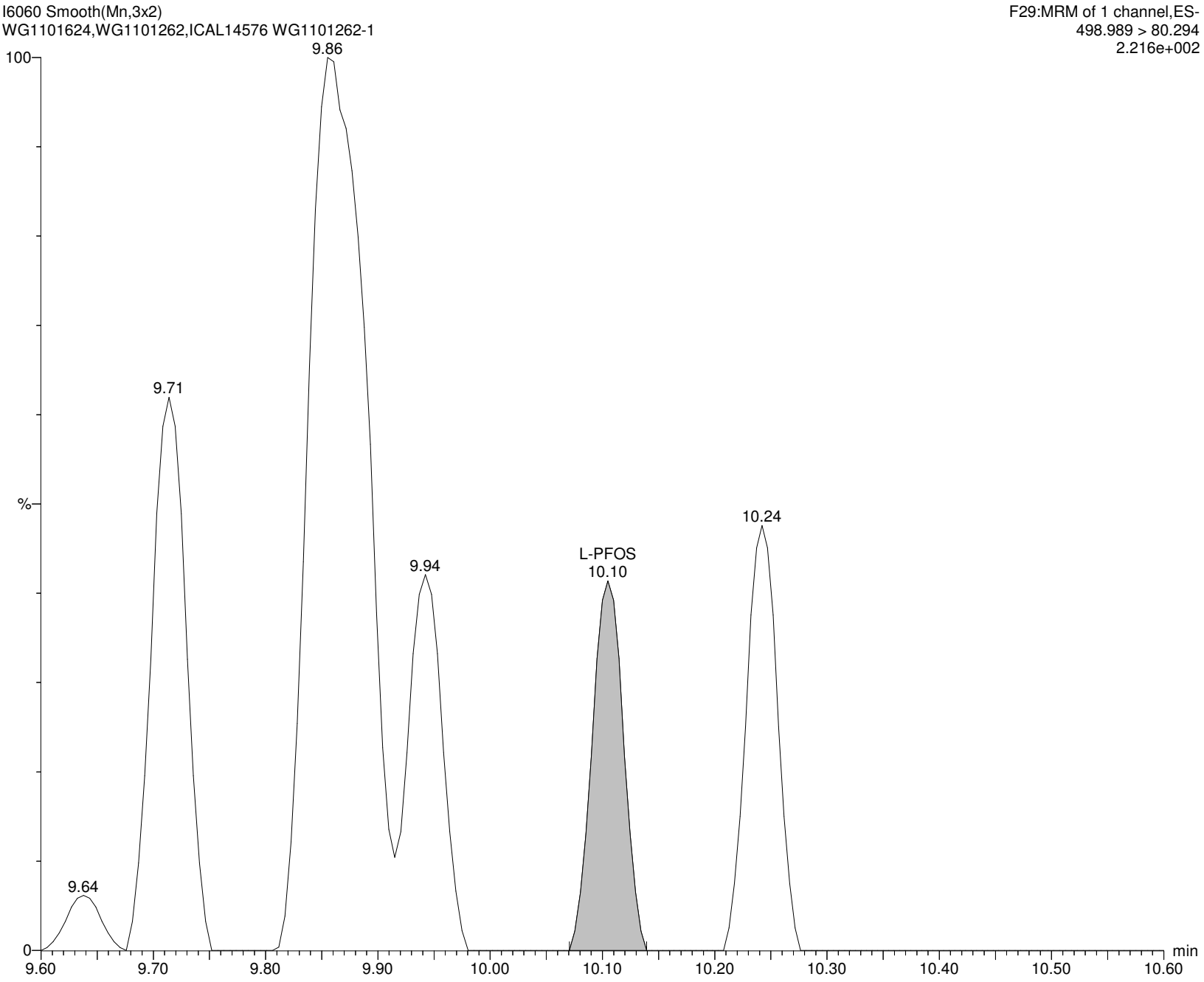

all concentration units in (ng/mL)

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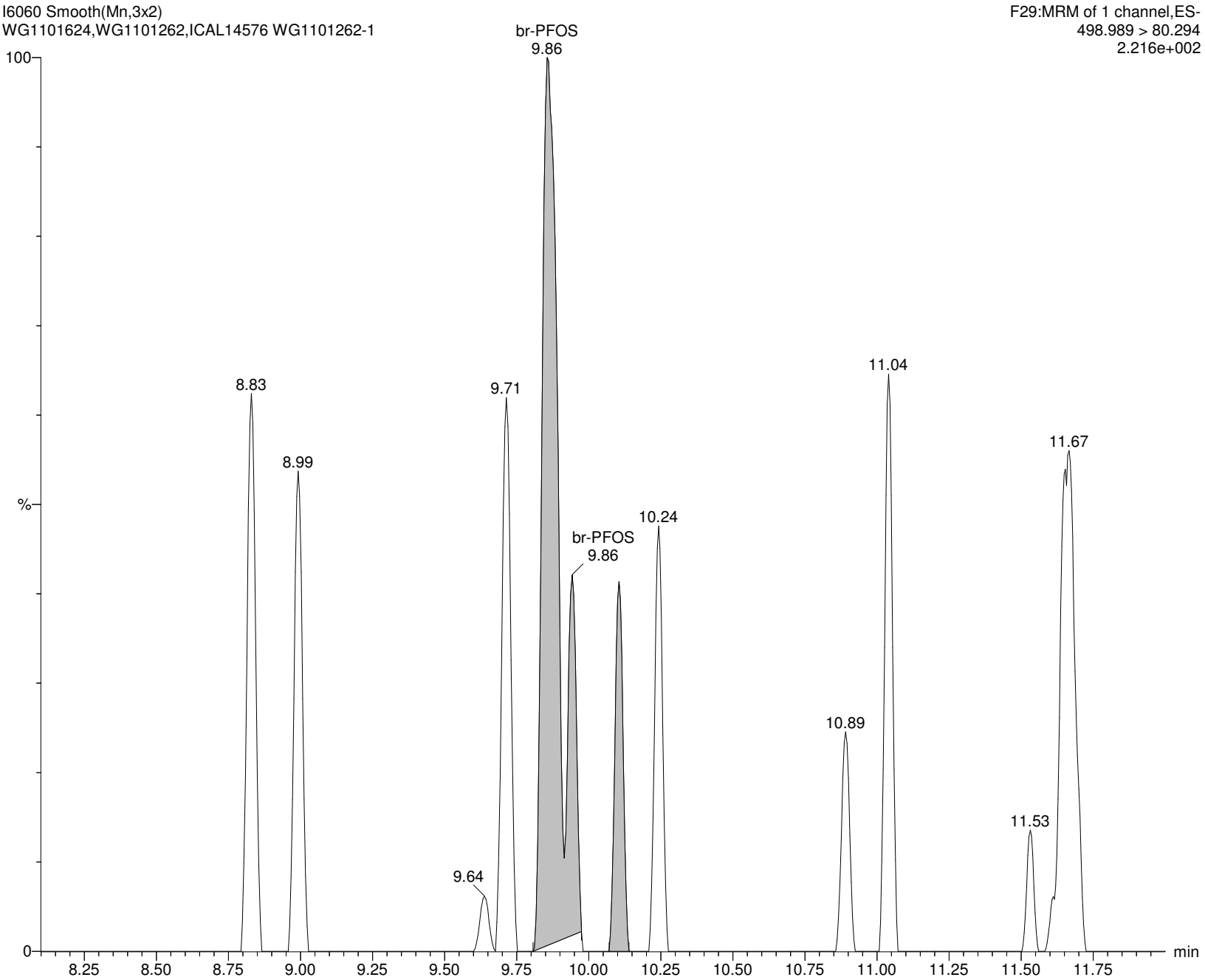

all concentration units in (ng/mL)

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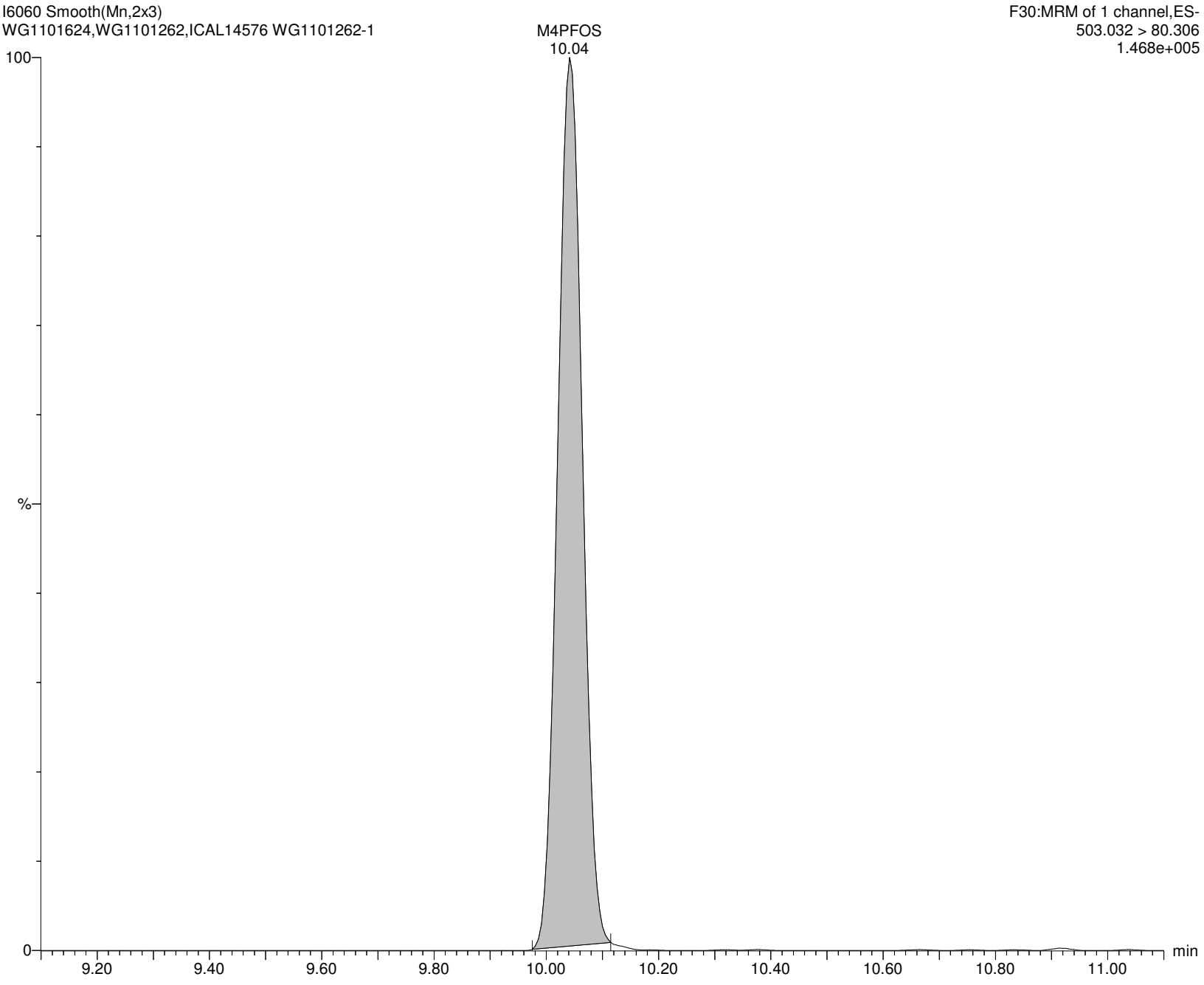

all concentration units in (ng/mL)

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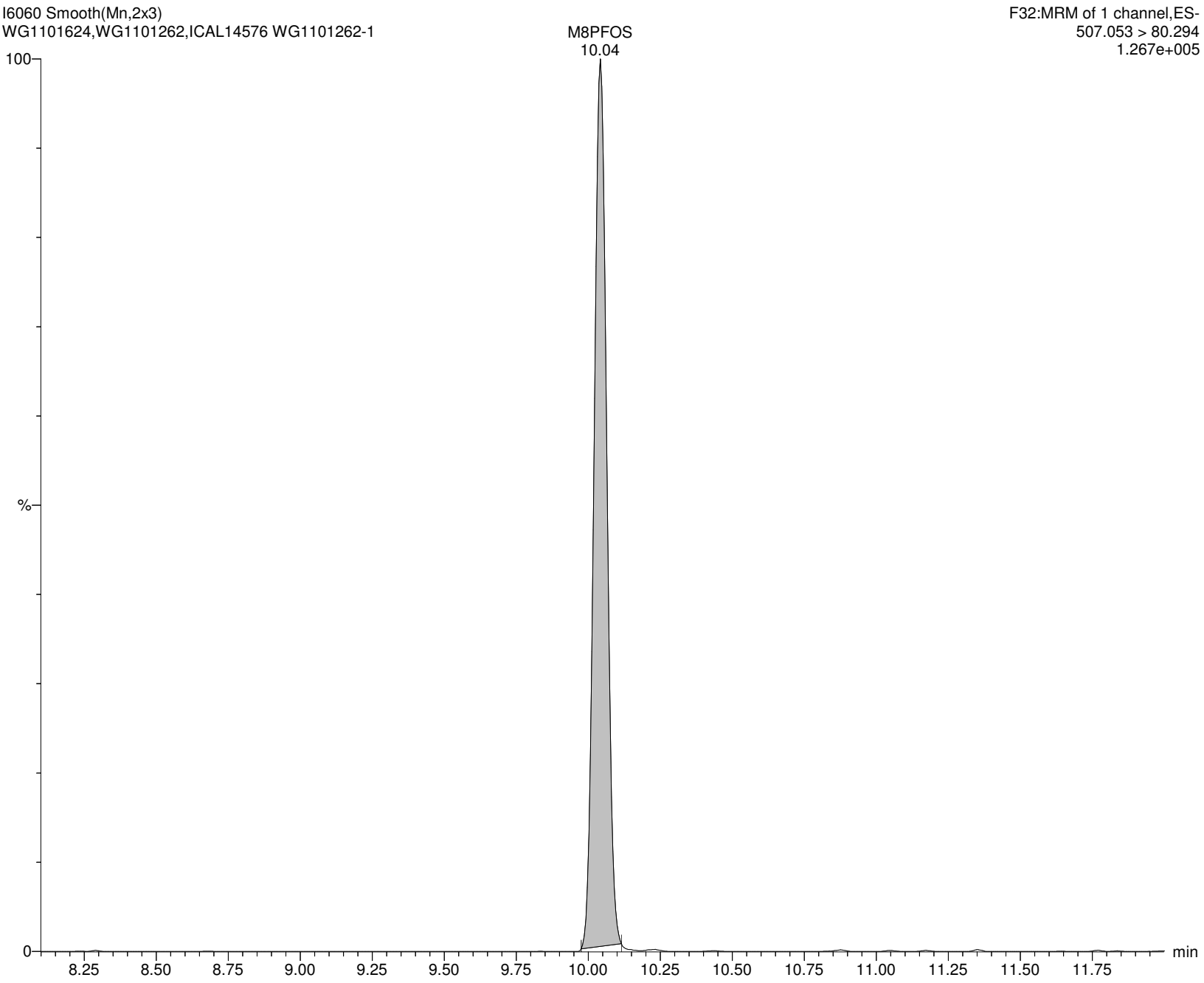

all concentration units in (ng/mL)

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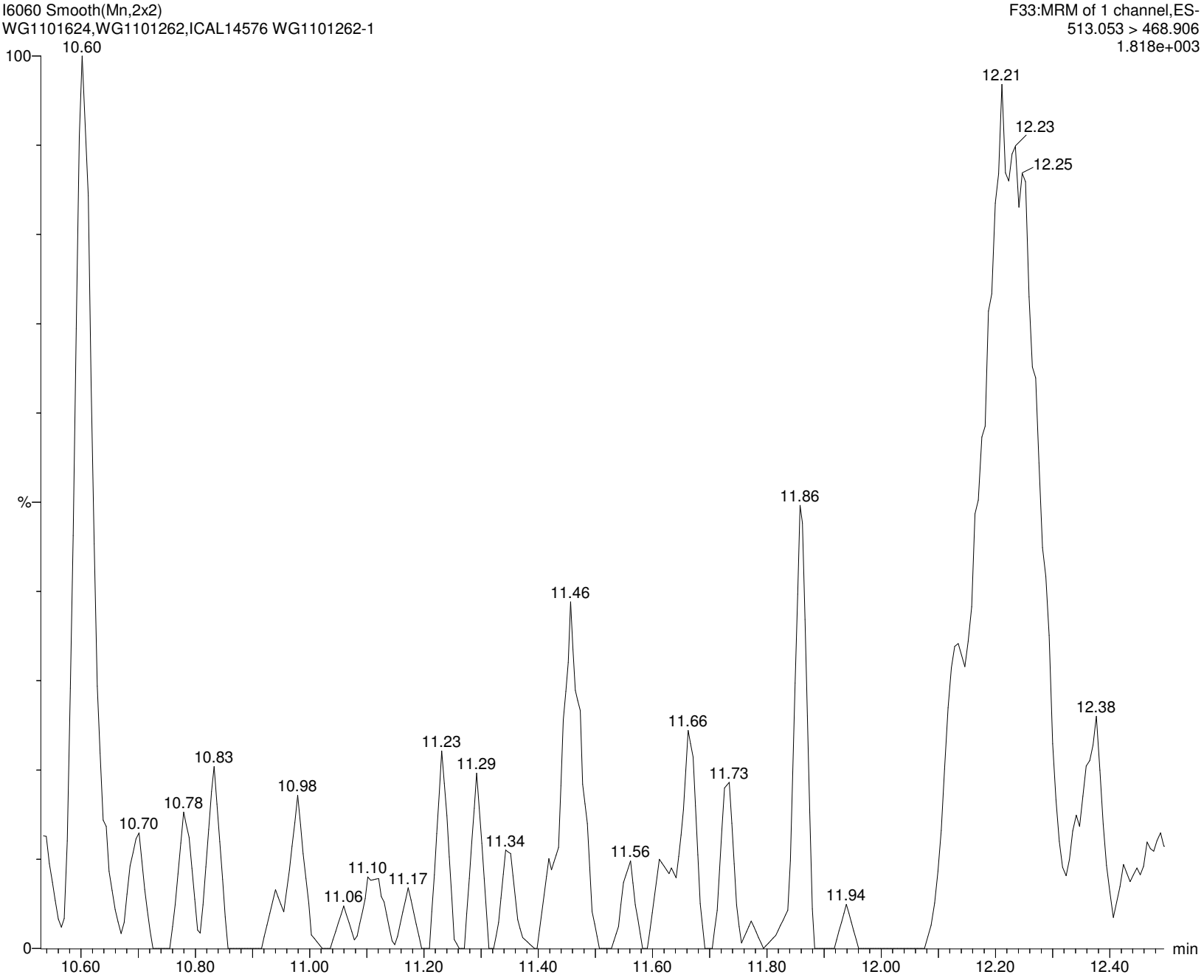

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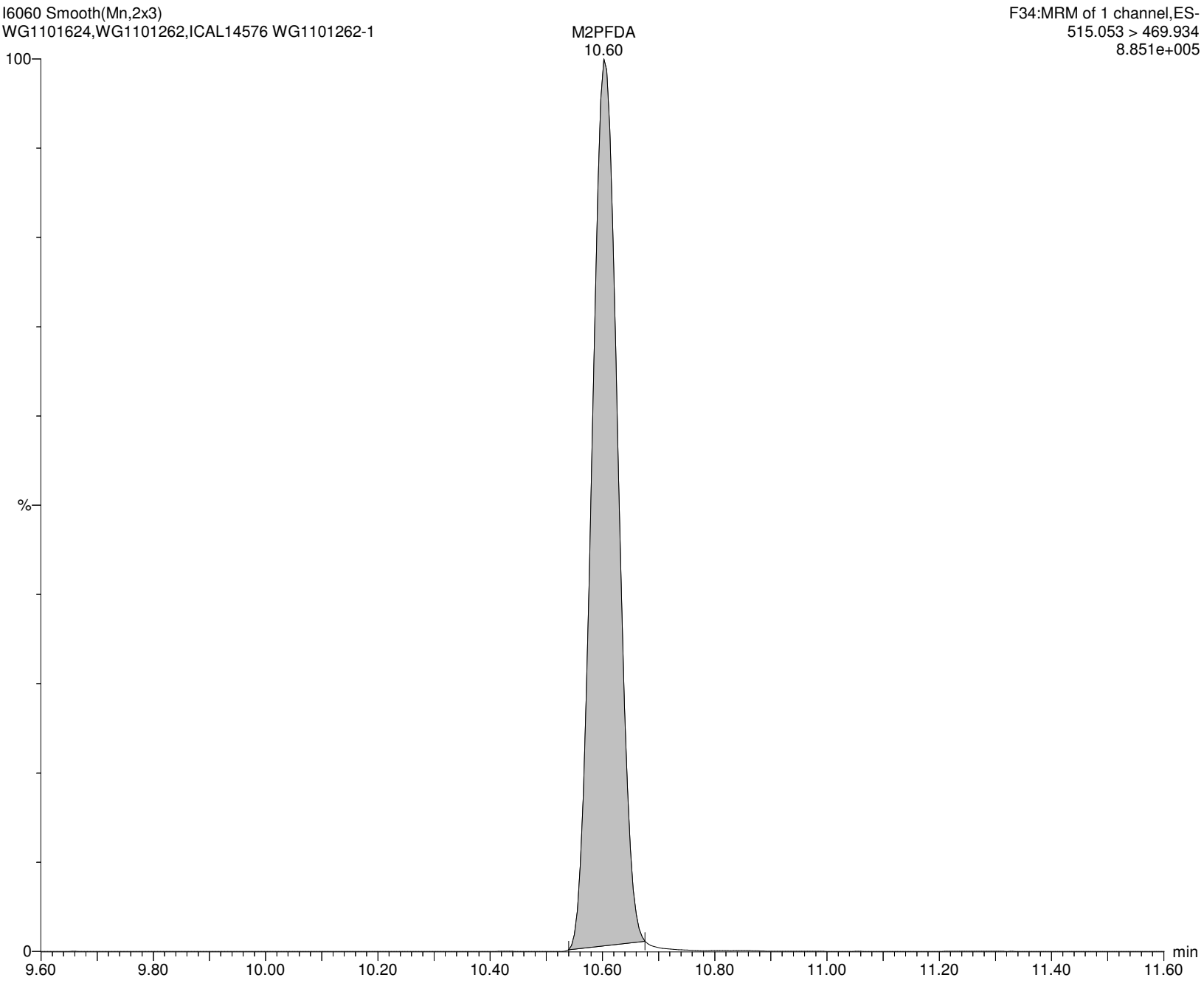

all concentration units in (ng/mL)

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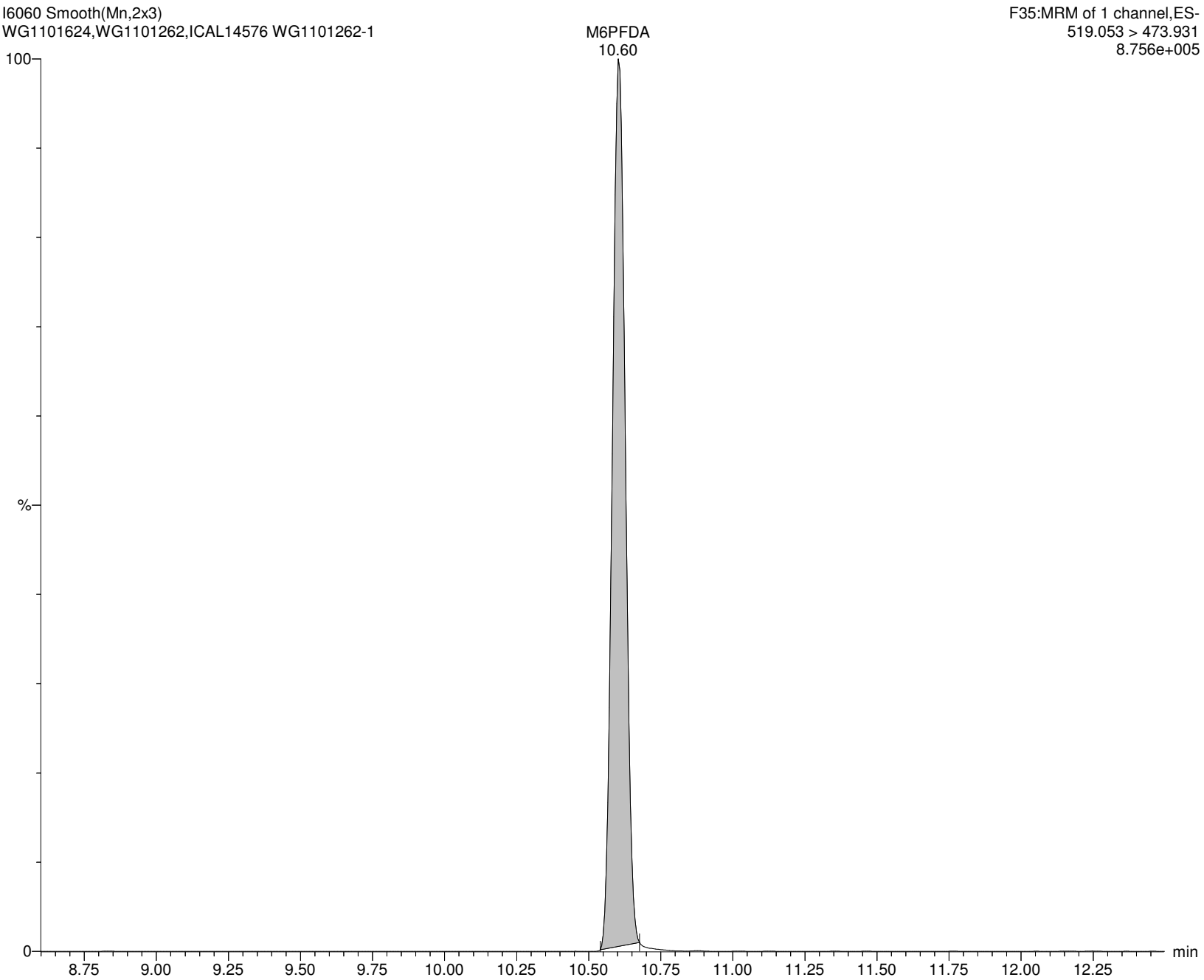

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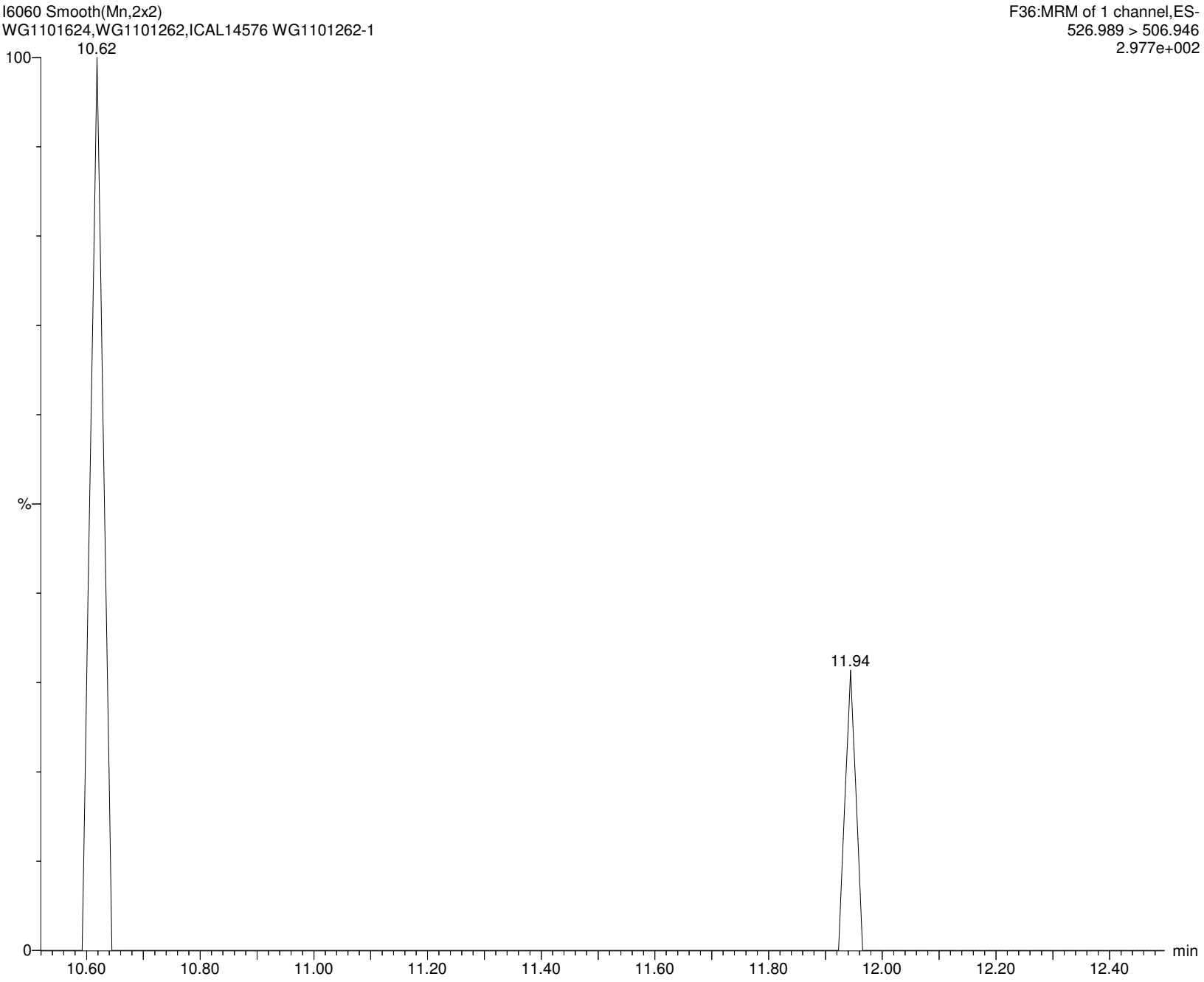
8:2FTS



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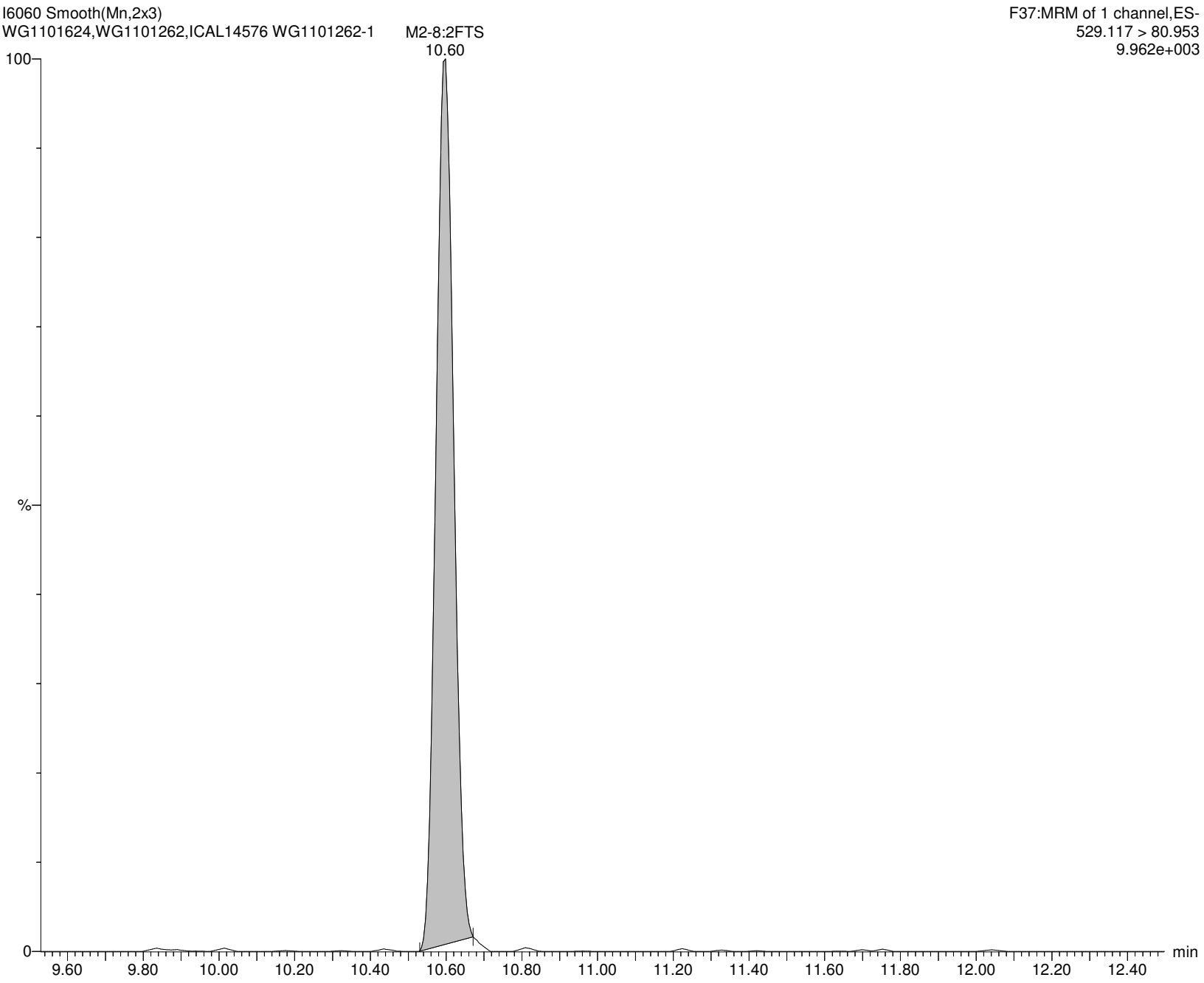

all concentration units in (ng/mL)

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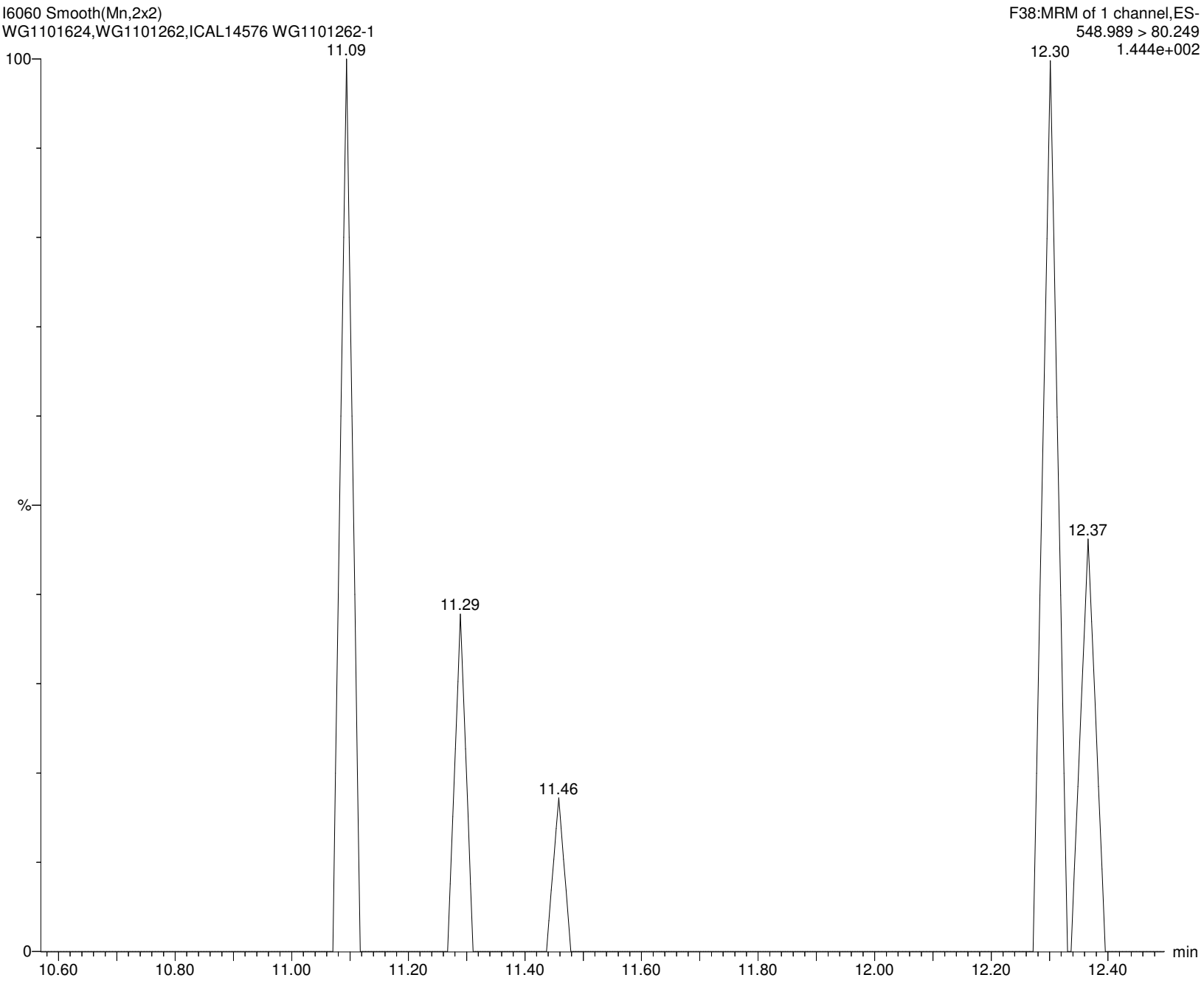

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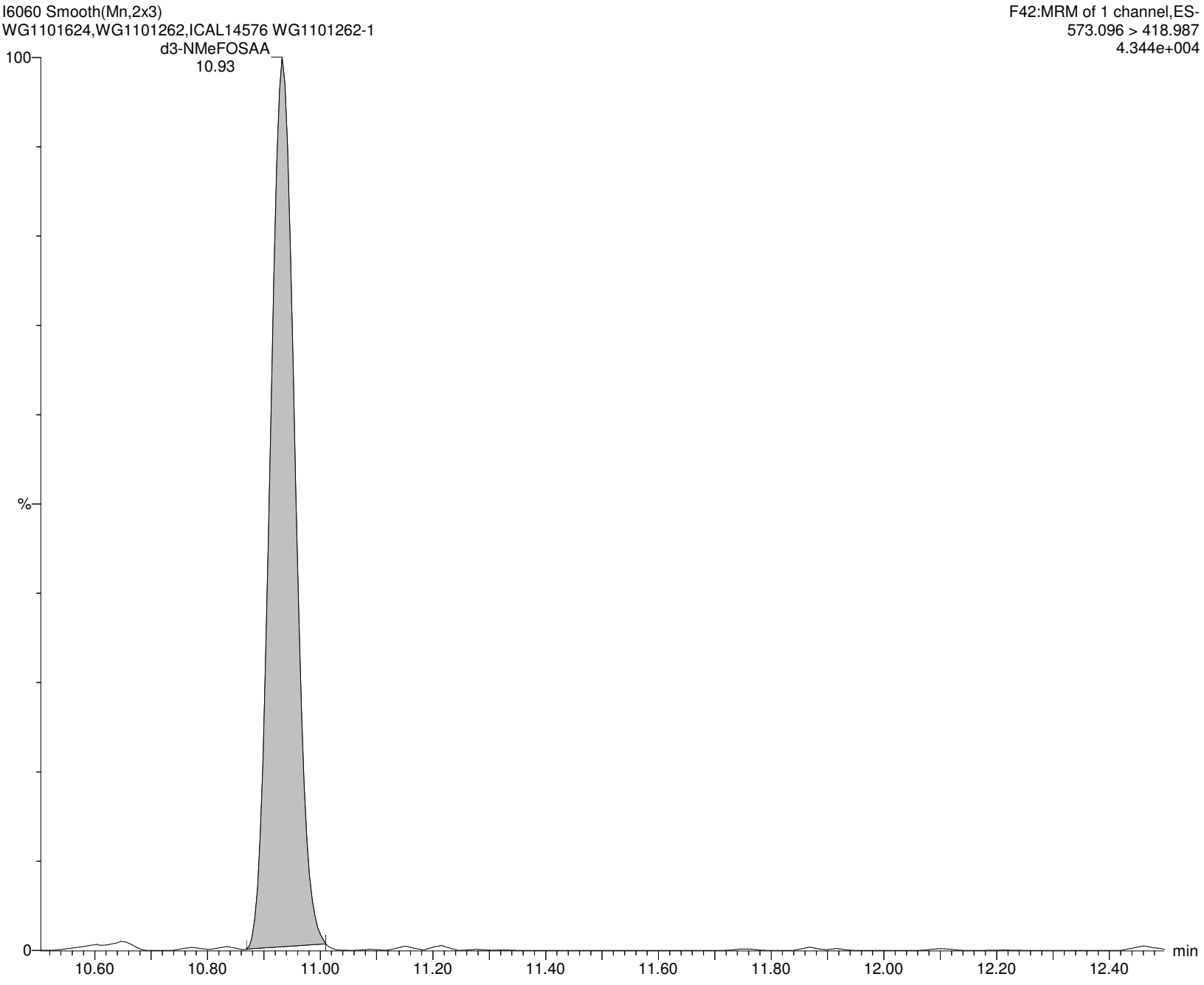
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:01 Eastern Daylight Time

Name: I6060
ID: WG1101262-1
Date: 29-Mar-2018
Time: 16:22:10
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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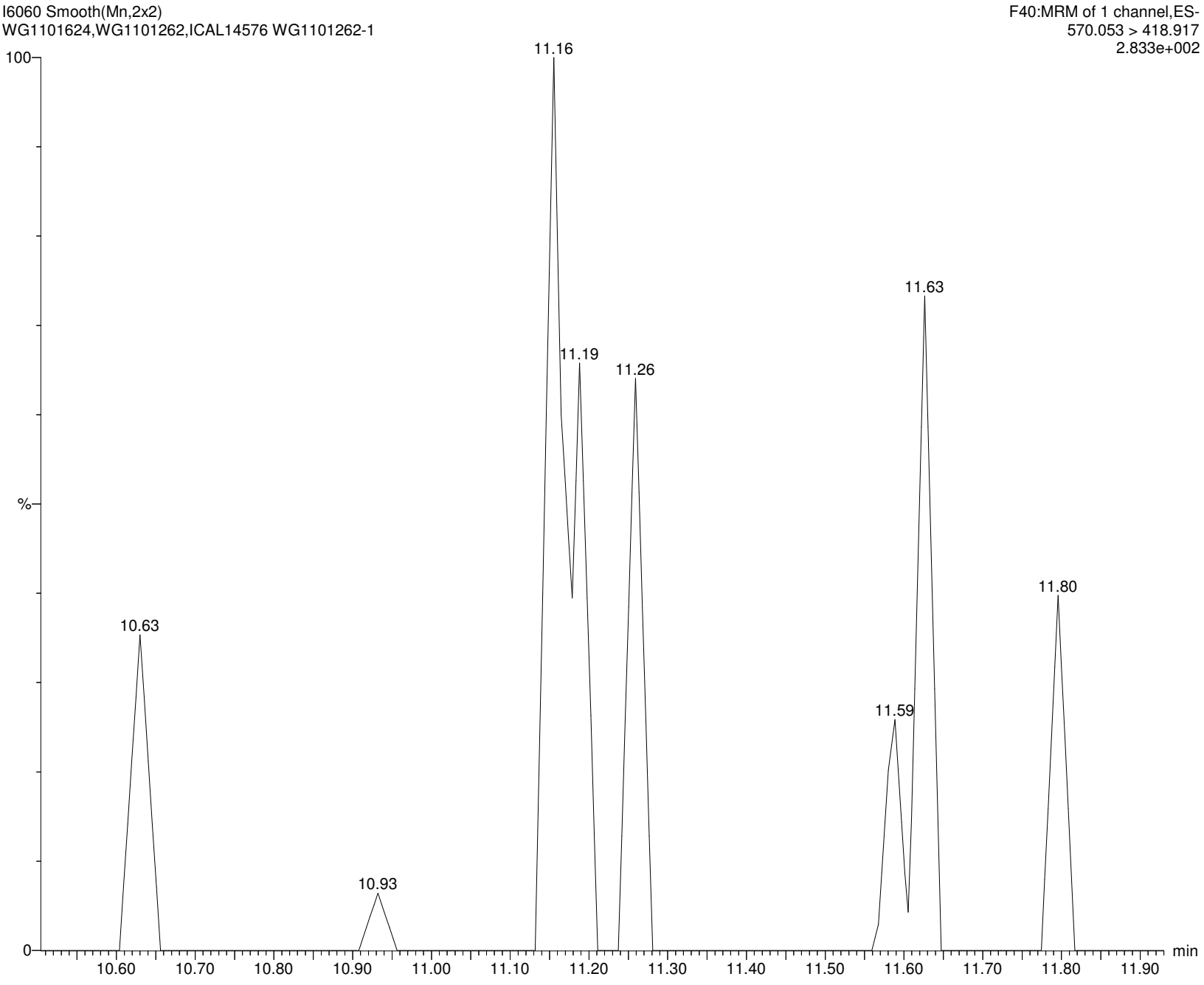

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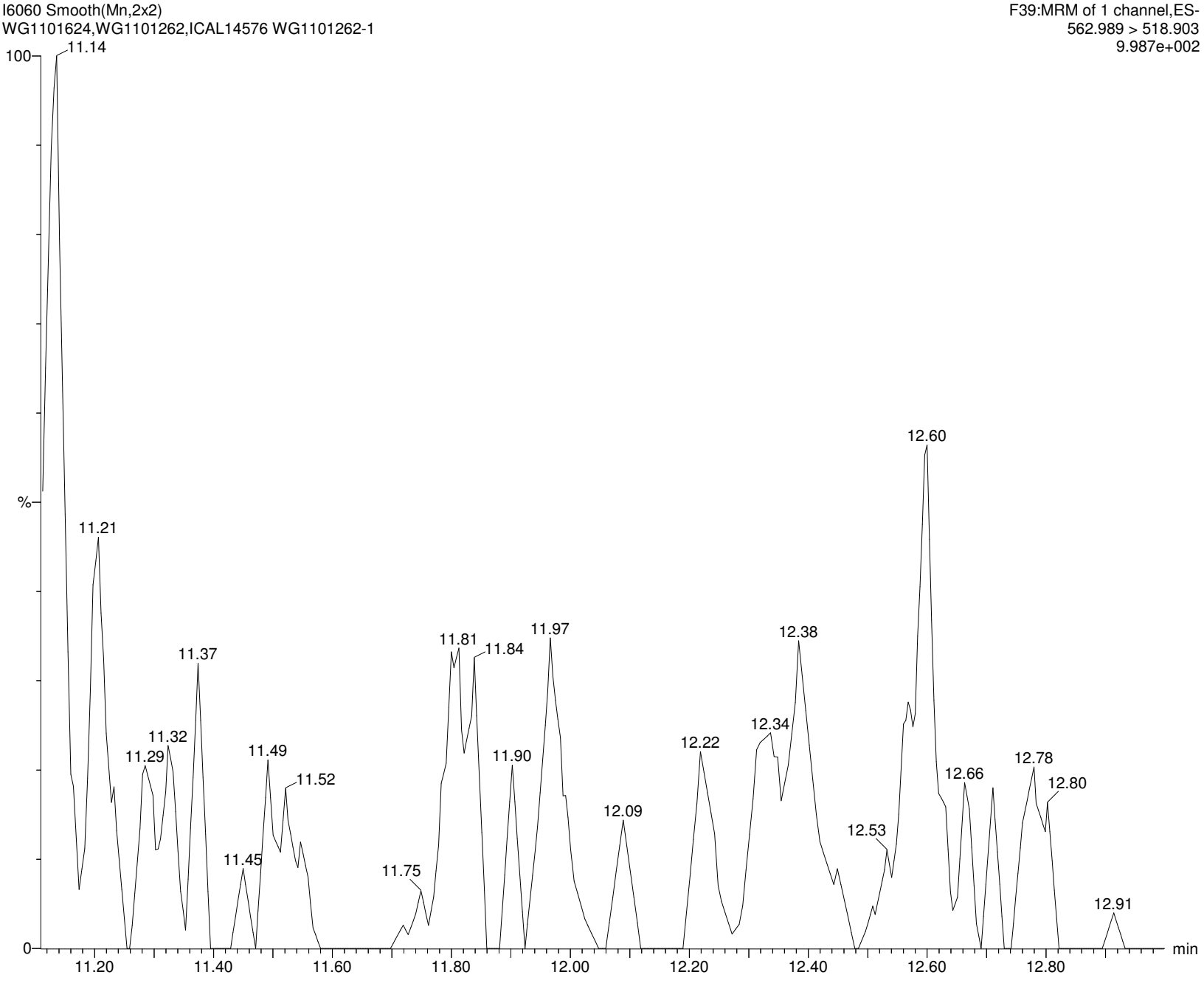

all concentration units in (ng/mL)

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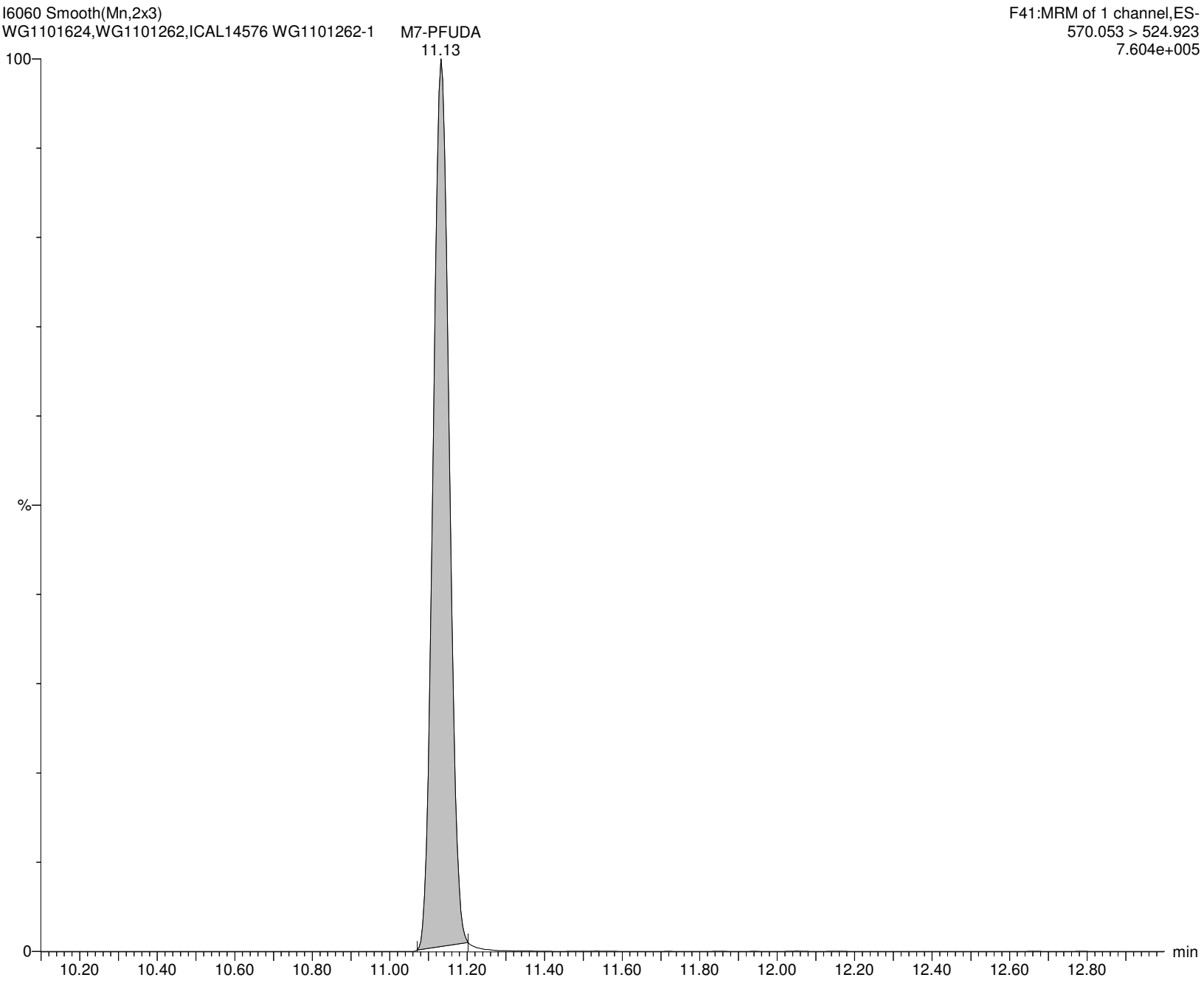
M7-PFUDA



all concentration units in (ng/mL)

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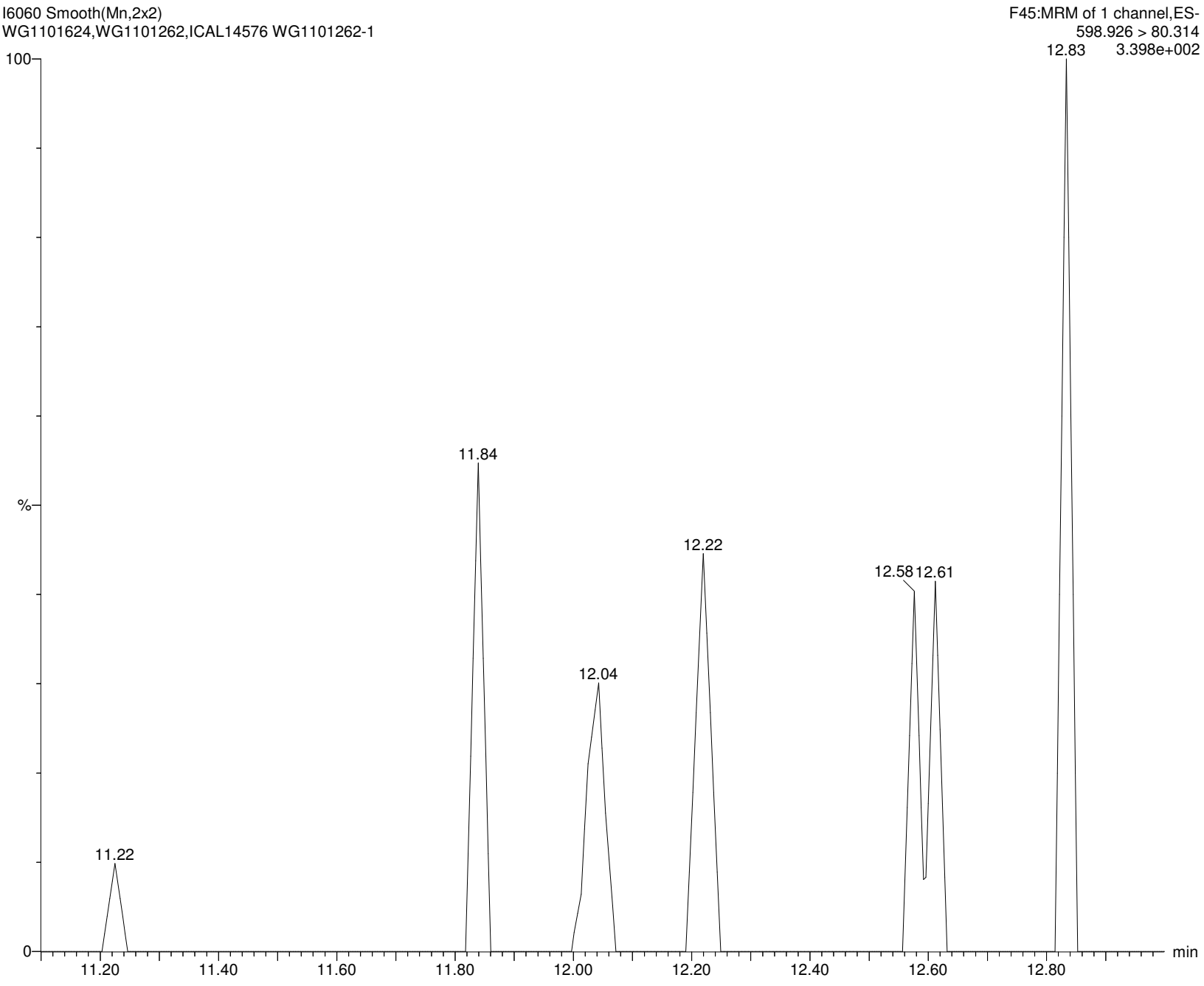
PFDS



all concentration units in (ng/mL)

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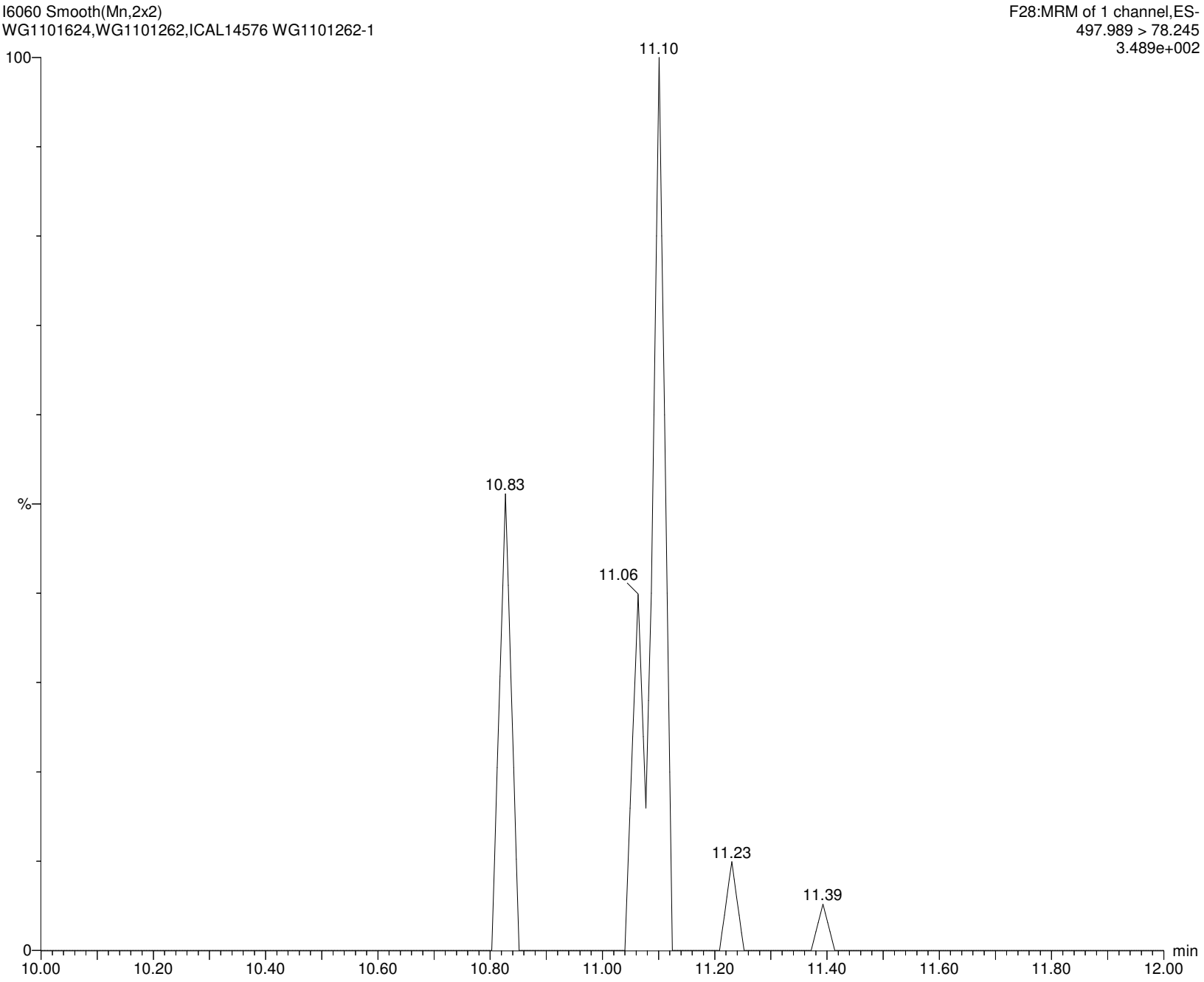

all concentration units in (ng/mL)

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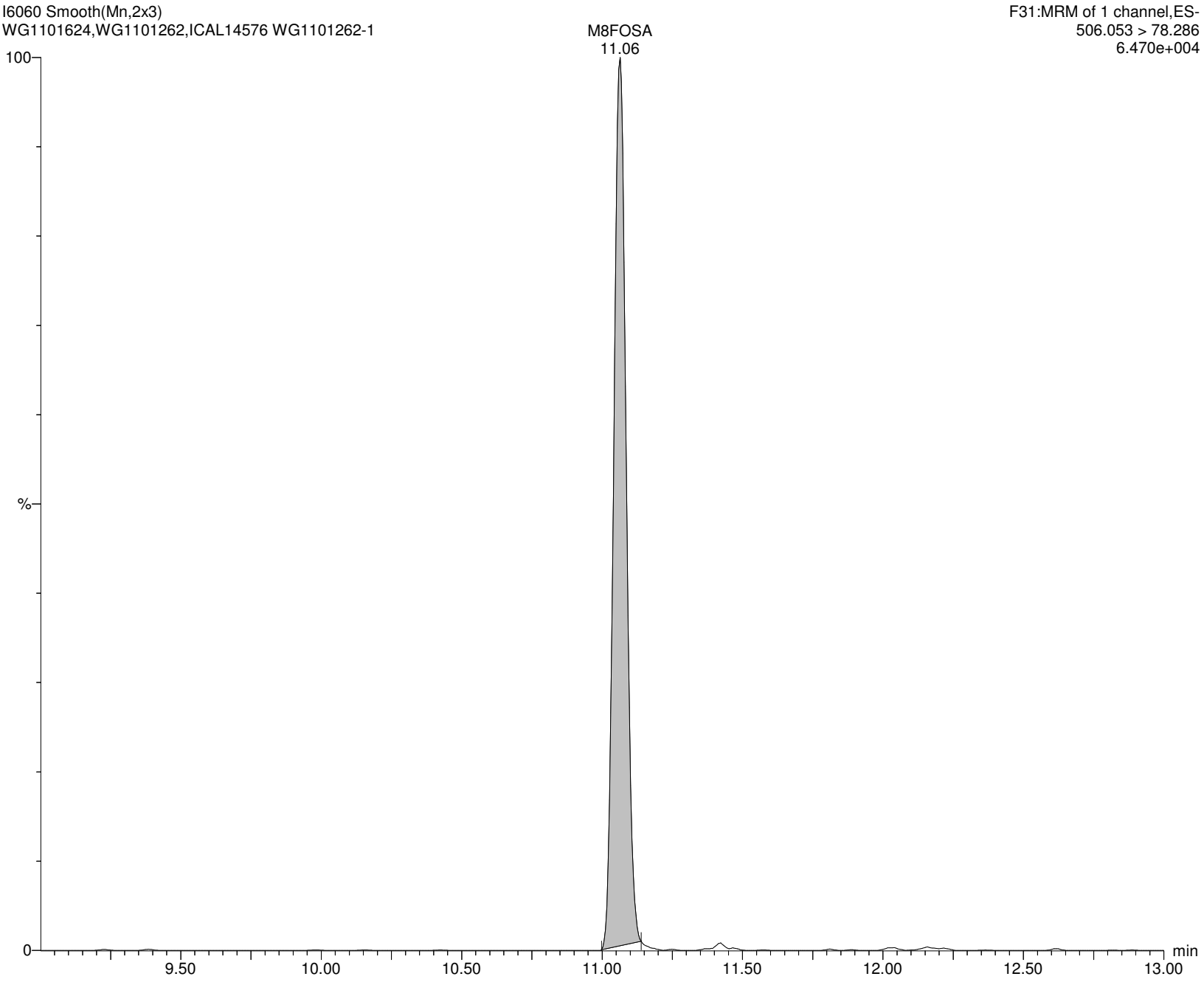

all concentration units in (ng/mL)

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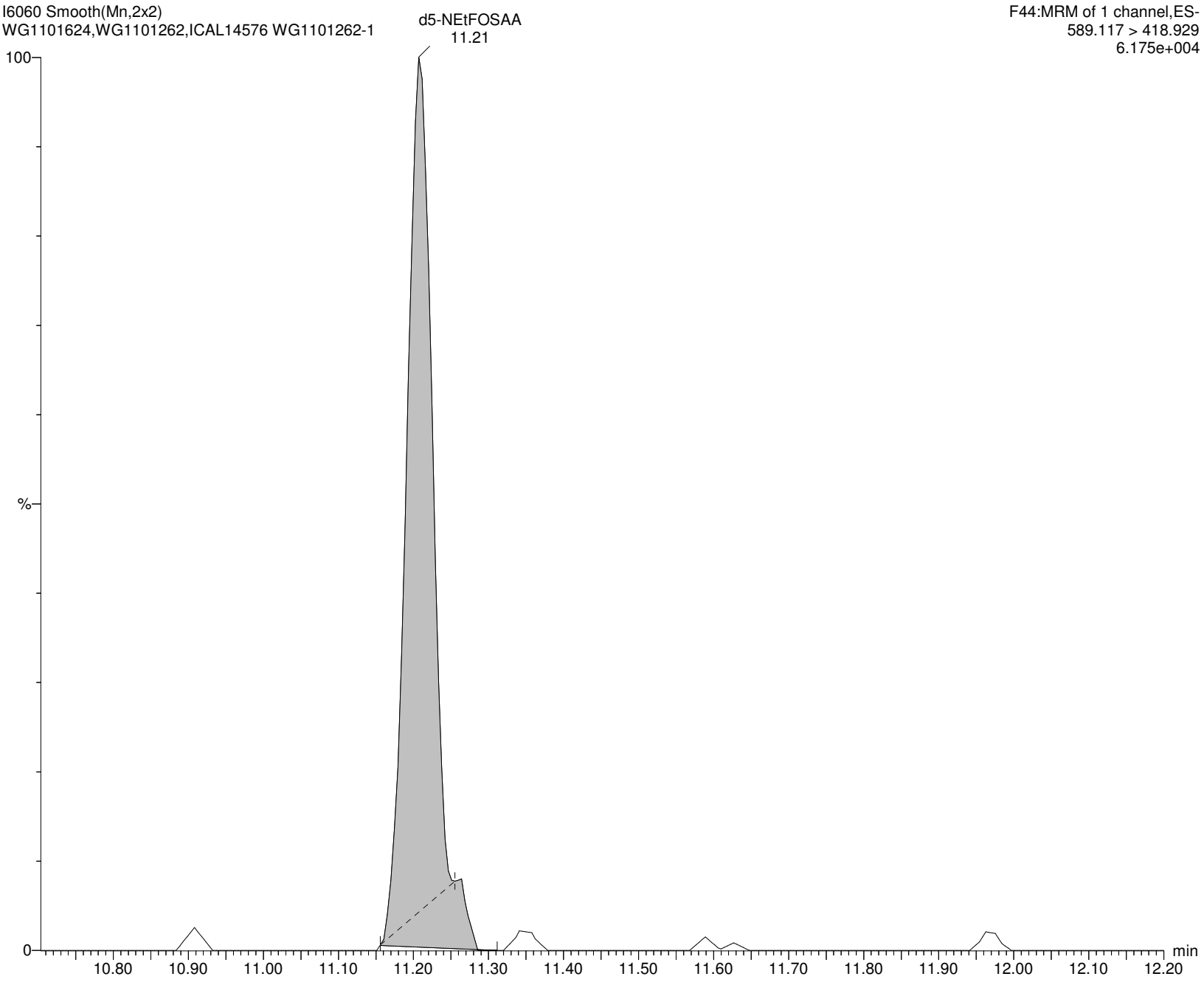
d5-NEtFOSAA



all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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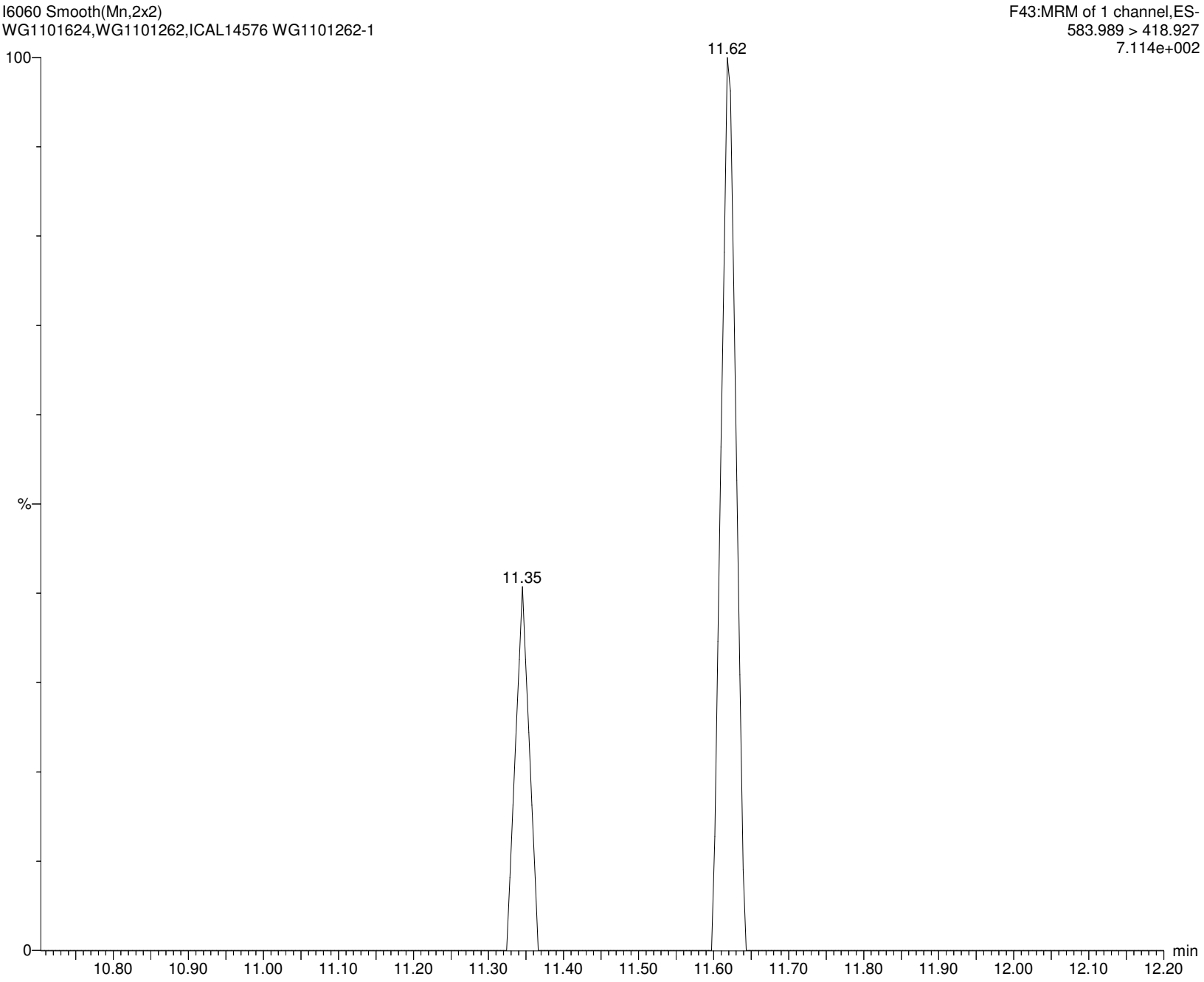

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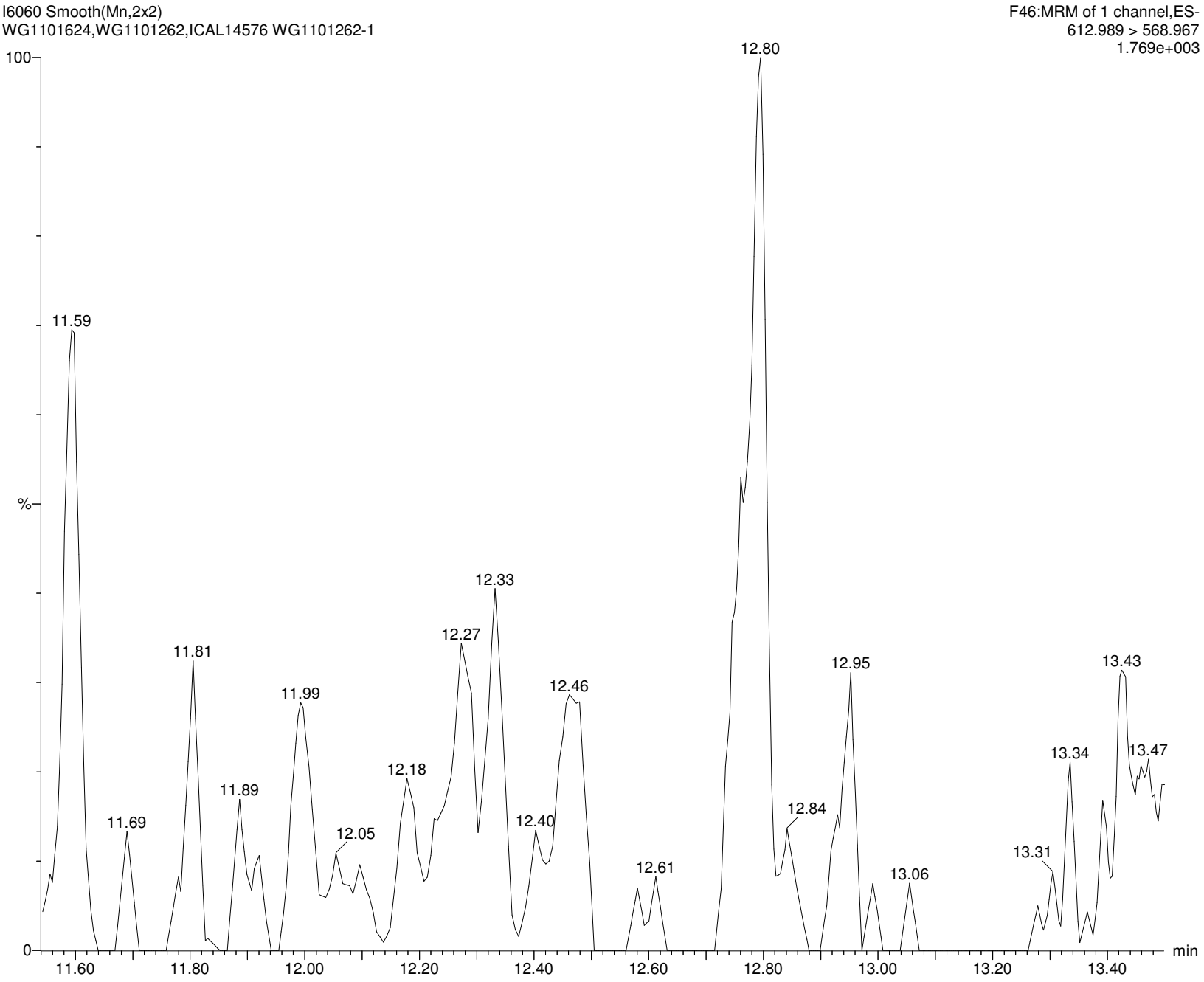

all concentration units in (ng/mL)

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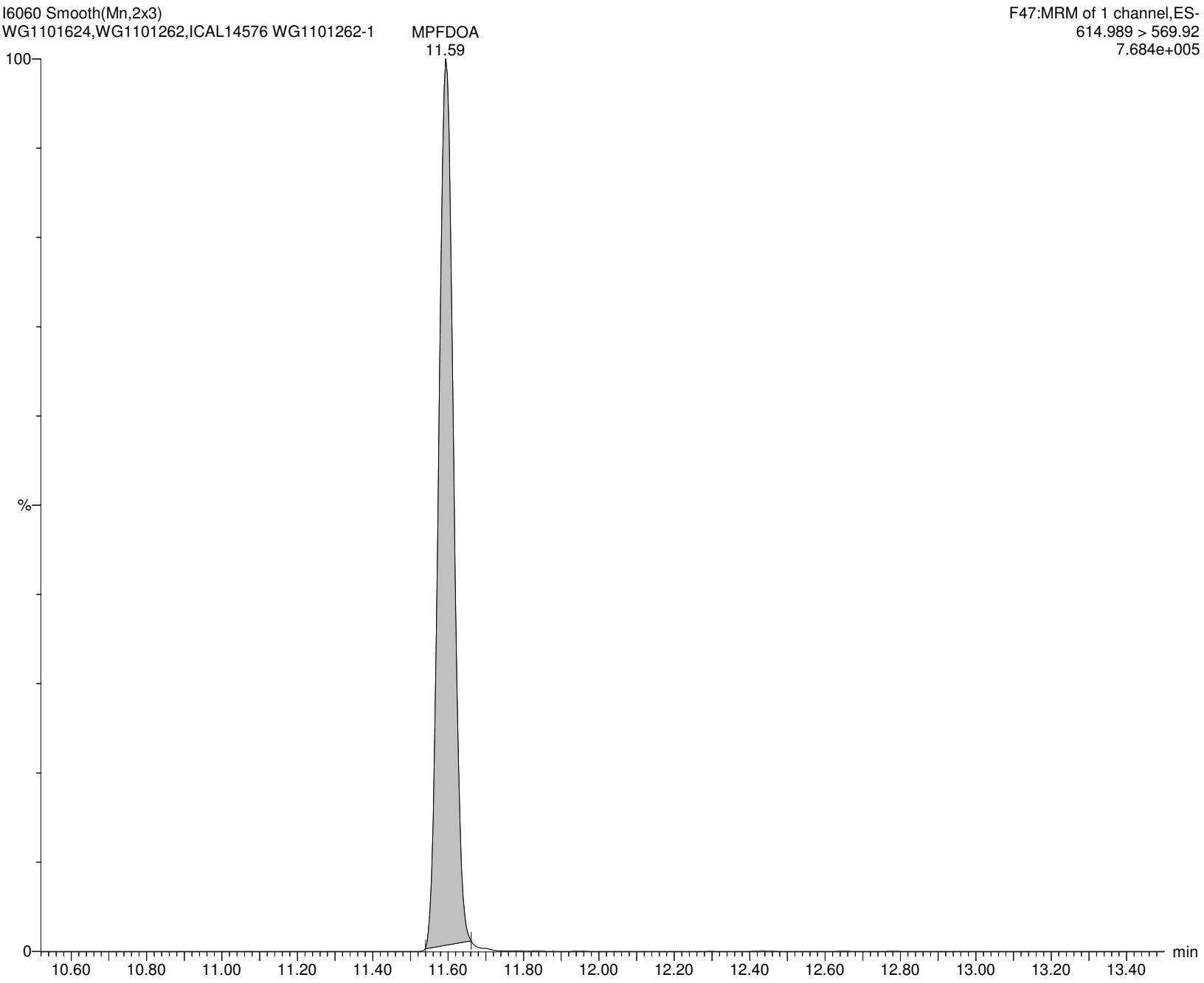

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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Date: 29-Mar-2018
Time: 16:22:10
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User: LCMS01:AJ
Vial: 2:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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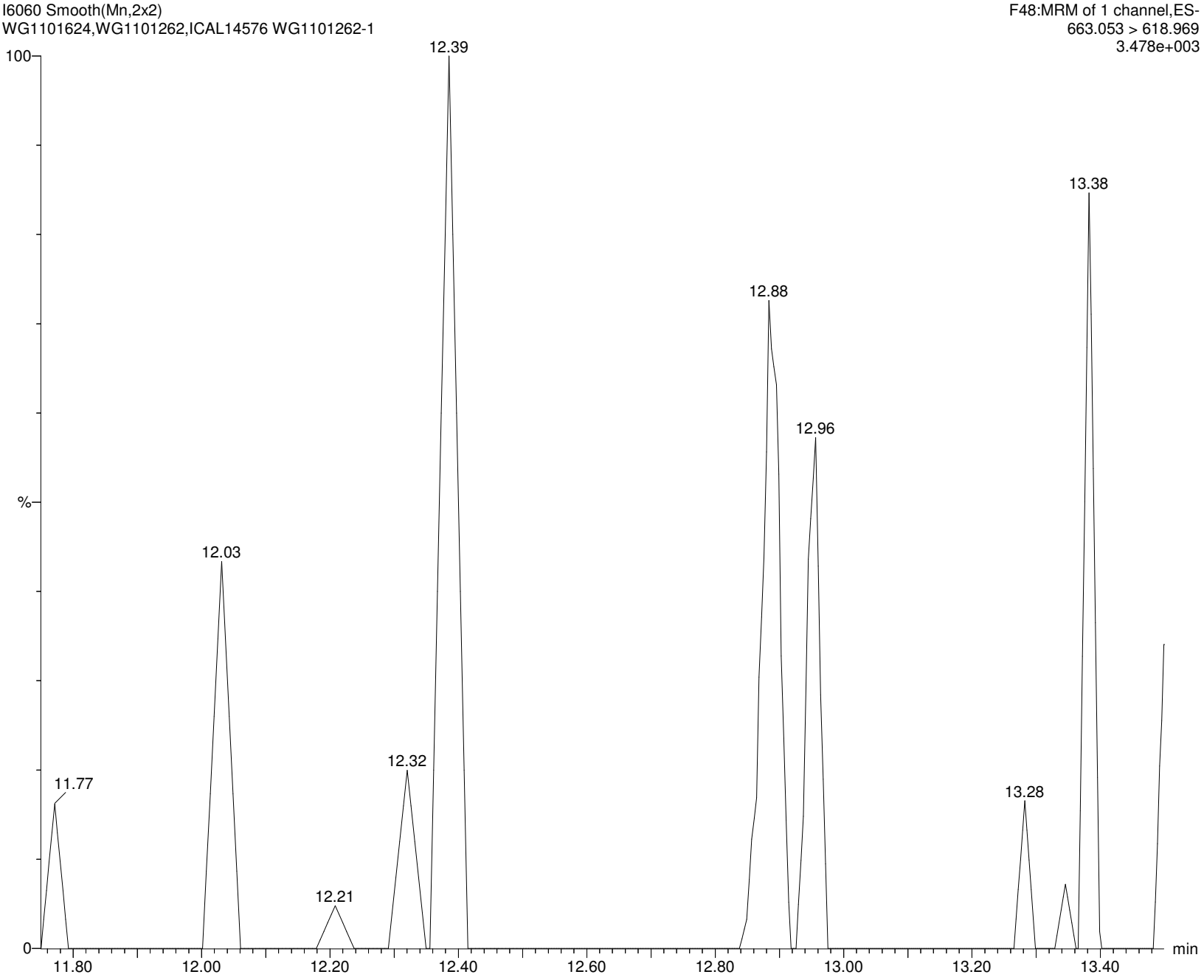

all concentration units in (ng/mL)

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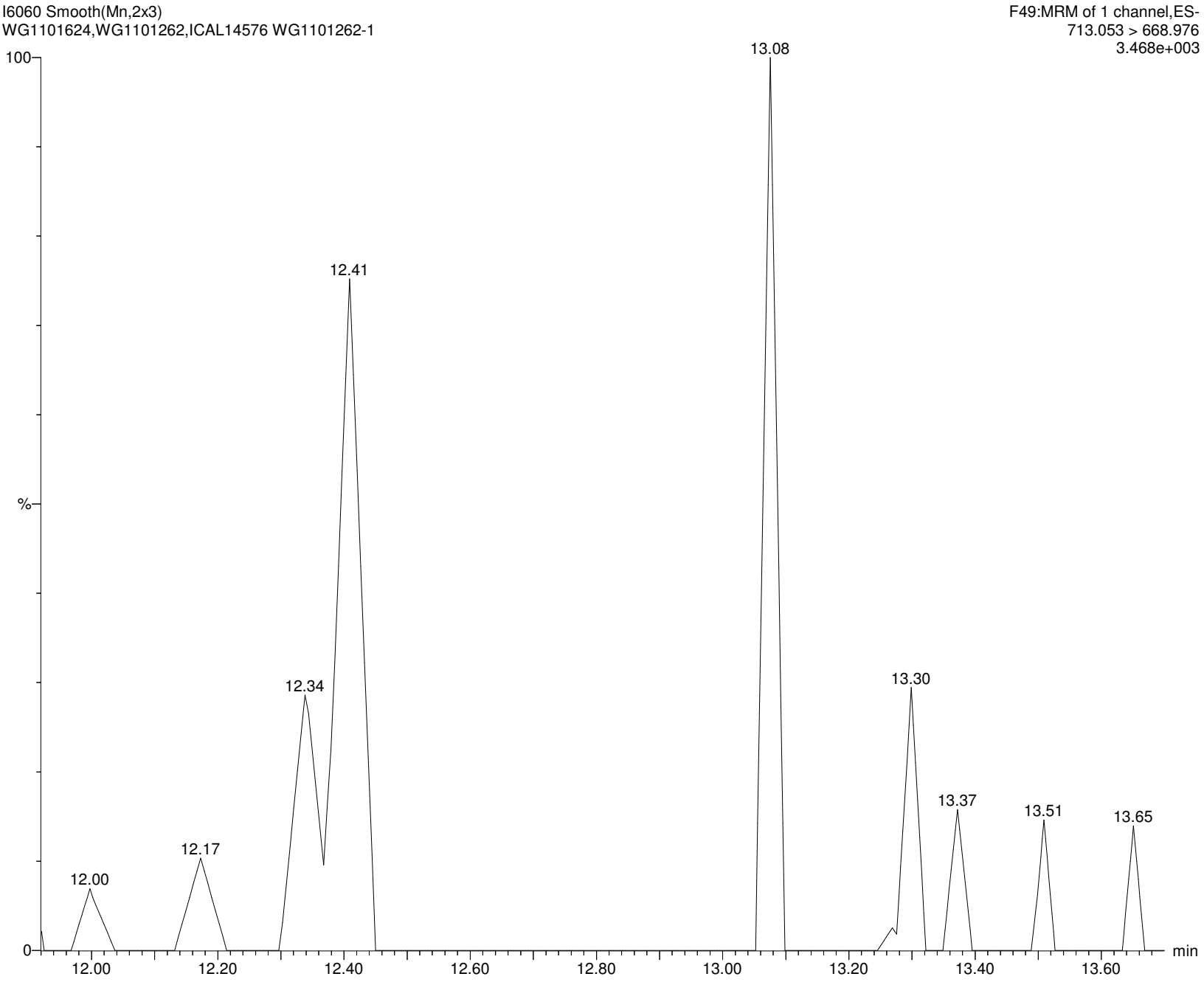

all concentration units in (ng/mL)

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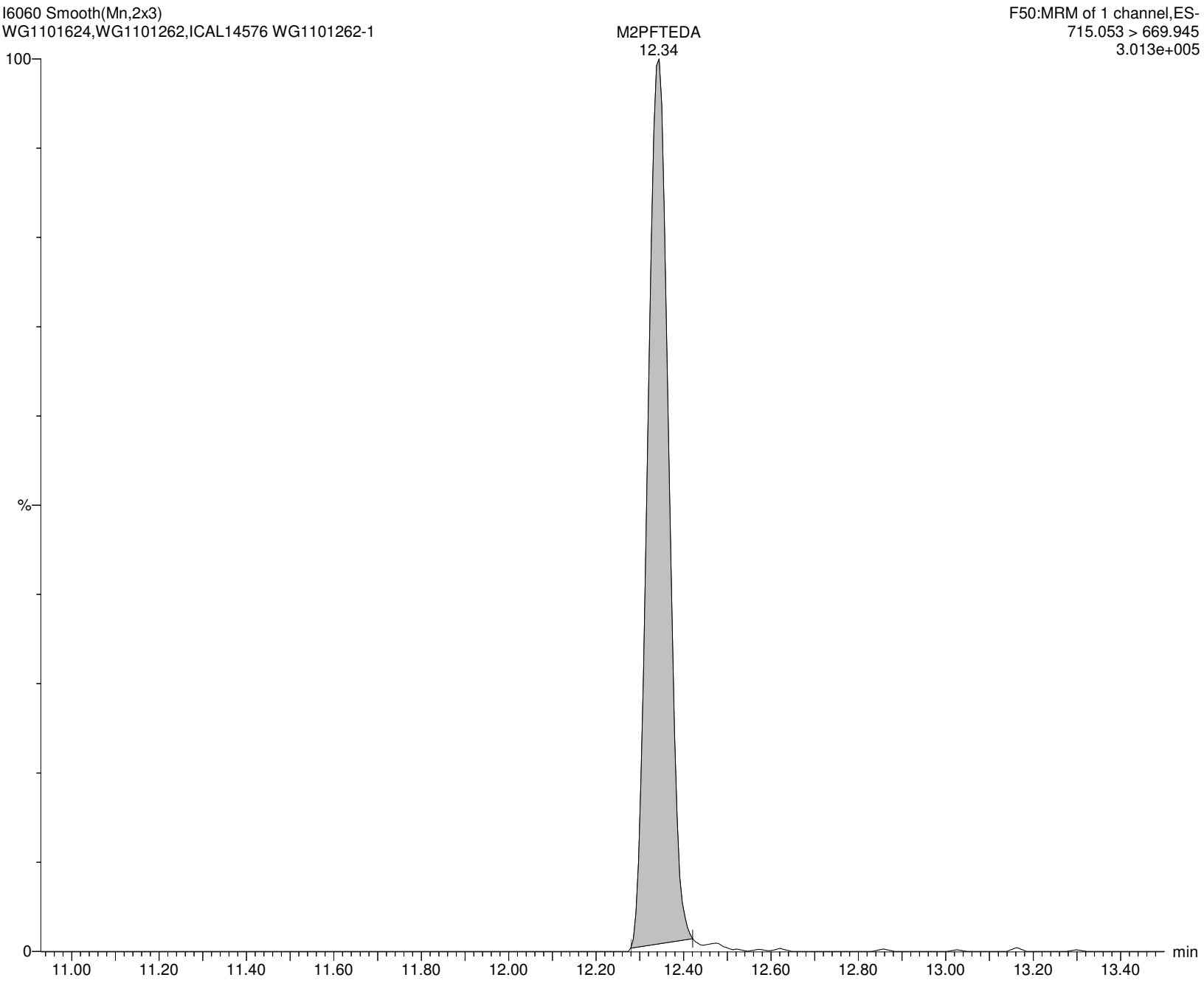

all concentration units in (ng/mL)

LCS Raw Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:03 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: WG1101262-2
Name: I6061
Date: 29-Mar-2018
Time: 16:38:44
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	33689		10.454		na	104.5
2	M3PFBA	INT STD	2.24	215.926 > 172.122	45009		9.019		na	90.2
3	MPFBA	INT STD	2.24	216.926 > 172.137	43780		8.704		na	87.0
4	PFPeA	2706-90-3	5.14	262.926 > 219.002	37153		10.723		na	107.2
5	M5PFPEA	INT STD	5.14	TIC	44069		8.500		na	85.0
6	PFBS	375-73-5	5.81	298.989 > 80.295	8374		10.621		na	120.0
7	M3PFBS	INT STD	5.81	301.989 > 80.254	8018		6.363		na	63.6
8	4:2FTS	757124-72-4	6.97	326.926 > 306.957	3007		10.673		na	114.1
9	M2-4:2FTS	INT STD	6.97	328.989 > 80.973	845		5.198		na	52.0
10	PFHxA	307-24-4	7.04	312.989 > 269.028	47687		11.332		na	113.3
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	46554		6.771		na	67.7
12	PFPeS	2706-91-4	7.37	348.926 > 80.251	7546		10.089		na	107.3
13	PFHpA	375-85-9	8.31	362.926 > 319.014	52400		10.582		na	105.8
14	M4PFHpA	INT STD	8.31	366.926 > 321.979	53862		6.897		na	69.0
15	br-PFHxS	355-46-4	8.24	398.926 > 80.295	1203		1.610		na	84.7
16	L-PFHxS	355-46-4	8.47	398.926 > 80.295	7517		10.293		na	127.1
17	PFHxS	355-46-4		398.926 > 80.295	8720		11.903		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	7738		6.676		na	66.8
19	br-PFOA	335-67-1	9.02	412.989 > 368.9	417		0.081		na	0.8
20	L-PFOA	335-67-1	9.25	412.989 > 368.9	51391		9.998		na	100.0
21	M2PFOA	INT STD	9.24	415.032 > 369.968	71436		11.544		na	115.4
22	PFOA	335-67-1		412.989 > 368.9	51808		10.079		na	
23	M8PFOA	INT STD	9.24	420.989 > 375.979	49588		7.147		na	71.5
24	6:2FTS	27619-97-2	9.21	426.989 > 406.921	2893		10.365		na	109.1
25	M2-6:2FTS	INT STD	9.21	428.989 > 408.917	2915		4.751		na	47.5
26	PFHpS	375-92-8	9.34	448.926 > 80.257	4370		10.747		na	113.1
27	PFNA	375-95-1	9.99	462.989 > 418.931	41727		11.244		na	112.4
28	M9PFNA	INT STD	9.99	472.053 > 426.947	44529		6.829		na	68.3
29	br-PFOS	1763-23-1	9.79	498.989 > 80.294	1940		2.383		na	119.1
30	L-PFOS	1763-23-1	10.04	498.989 > 80.294	4508		7.833		na	99.2
31	PFOS	1763-23-1		498.989 > 80.294	6449		10.216		na	
32	M4PFOS	INT STD	10.04	503.032 > 80.306	7676		12.660		na	126.6
33	M8PFOS	INT STD	10.04	507.053 > 80.294	5878		6.271		na	62.7
34	PFDA	335-76-2	10.60	513.053 > 468.906	35511		10.571		na	105.7
35	M2PFDA	INT STD	10.60	515.053 > 469.934	43683		10.419		na	104.2
36	M6PFDA	INT STD	10.60	519.053 > 473.931	39514		7.491		na	74.9
37	8:2FTS	39108-34-4	10.60	526.989 > 506.946	2027		13.501		na	140.6
38	M2-8:2FTS	INT STD	10.60	529.117 > 80.953	441		4.659		na	46.6
39	PFNS	68259-12-1	10.63	548.989 > 80.249	4874		10.545		na	109.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I6061
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User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	2249		3.335		na	33.4
41	NMeFOSAA	2355-31-9	10.94	570.053 > 418.917	2234		9.455		na	94.5
42	PFUnA	2058-94-8	11.13	562.989 > 518.903	31437		10.110		na	101.1
43	M7-PFUDA	INT STD	11.13	570.053 > 524.923	30211		7.000		na	70.0
44	PFDS	335-77-3	11.14	598.926 > 80.314	4956		9.910		na	102.7
45	FOSA	754-91-6	11.06	497.989 > 78.245	12888		10.490		na	104.9
46	M8FOSA	INT STD	11.06	506.053 > 78.286	15046		6.465		na	64.6
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	1633		2.555		na	25.6
48	NEtFOSAA	2991-50-6	11.22	583.989 > 418.927	1918		12.792		na	127.9
49	PFDoA	307-55-1	11.59	612.989 > 568.967	29796		10.320		na	103.2
50	MPFDOA	INT STD	11.59	614.989 > 569.92	29492		6.604		na	66.0
51	PFTrDA	72629-94-8	11.99	663.053 > 618.969	21447		7.865		na	78.7
52	PFTA	376-06-7	12.34	713.053 > 668.976	13017		12.164		na	121.6
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	12545		3.574		na	35.7

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:03 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
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Name: I6061
ID: WG1101262-2
Date: 29-Mar-2018
Time: 16:38:44
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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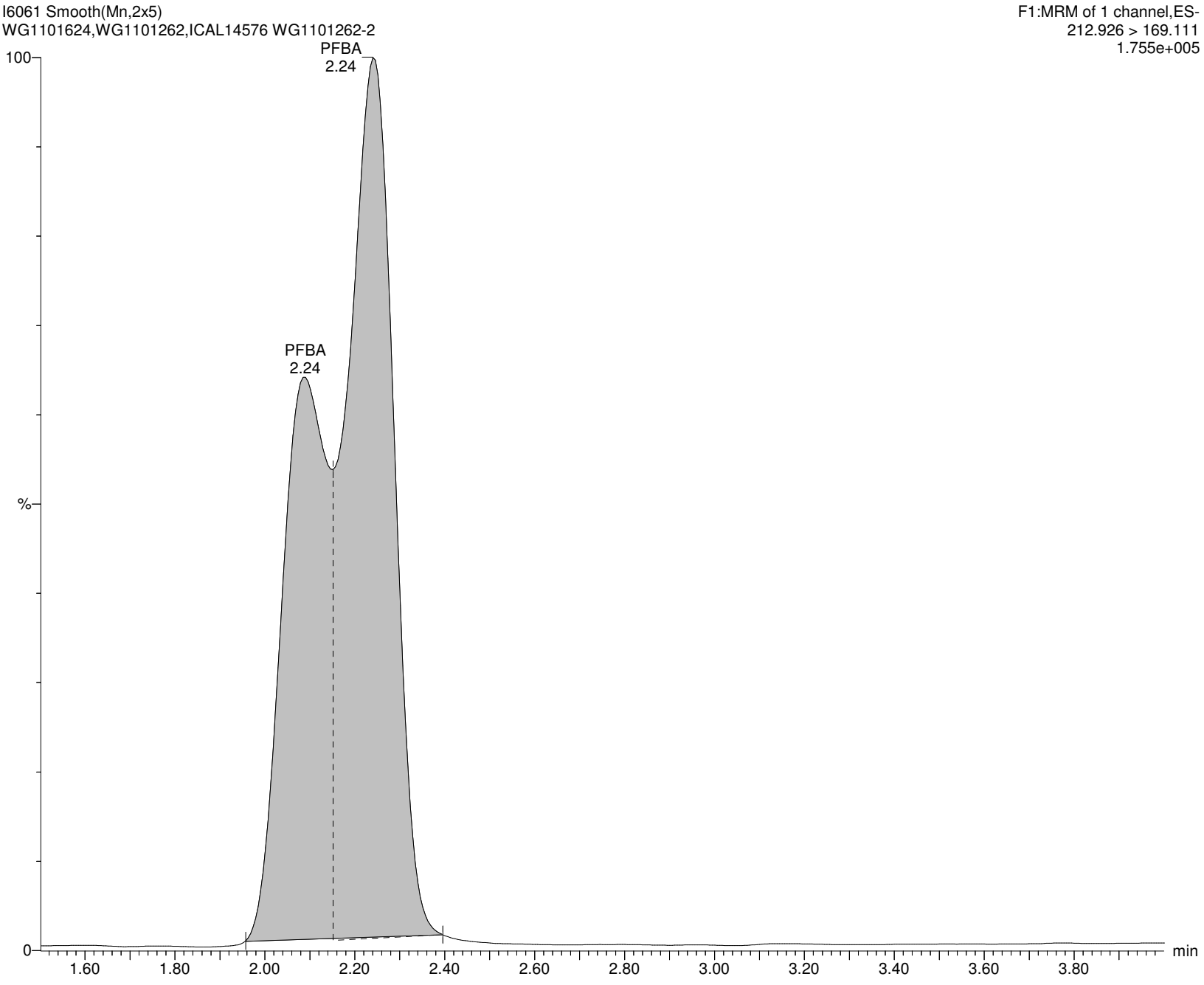

all concentration units in (ng/mL)

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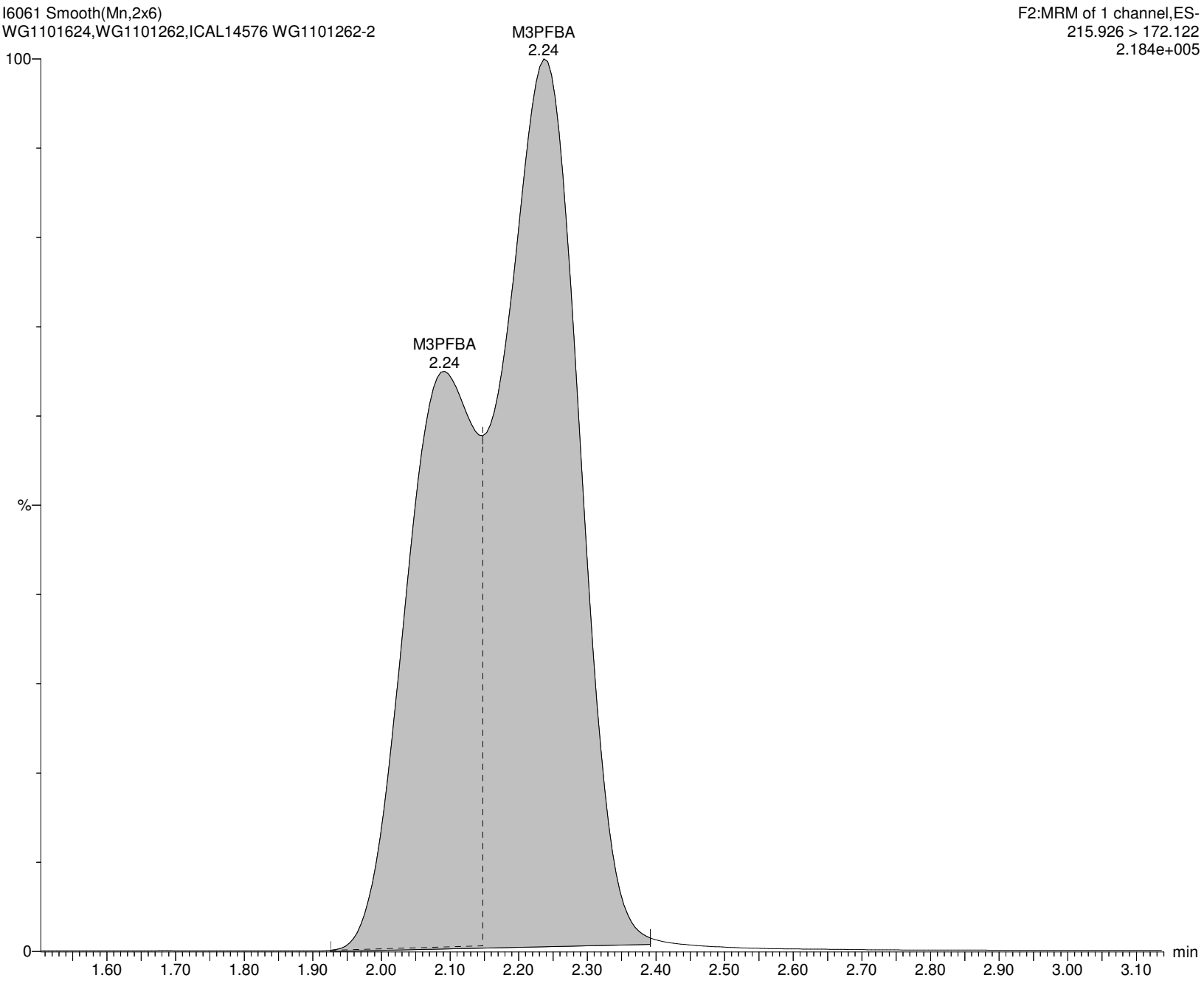

all concentration units in (ng/mL)

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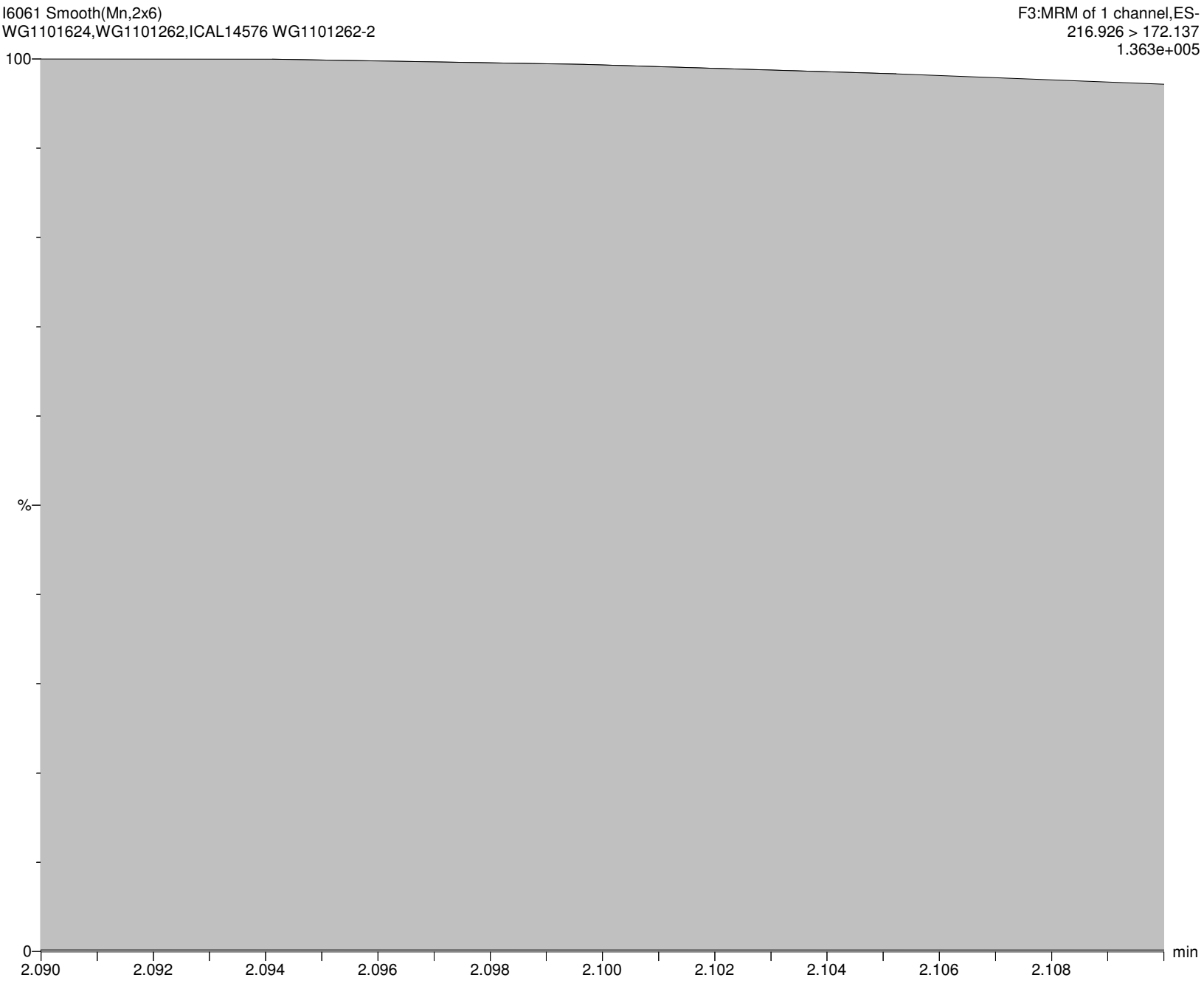

all concentration units in (ng/mL)

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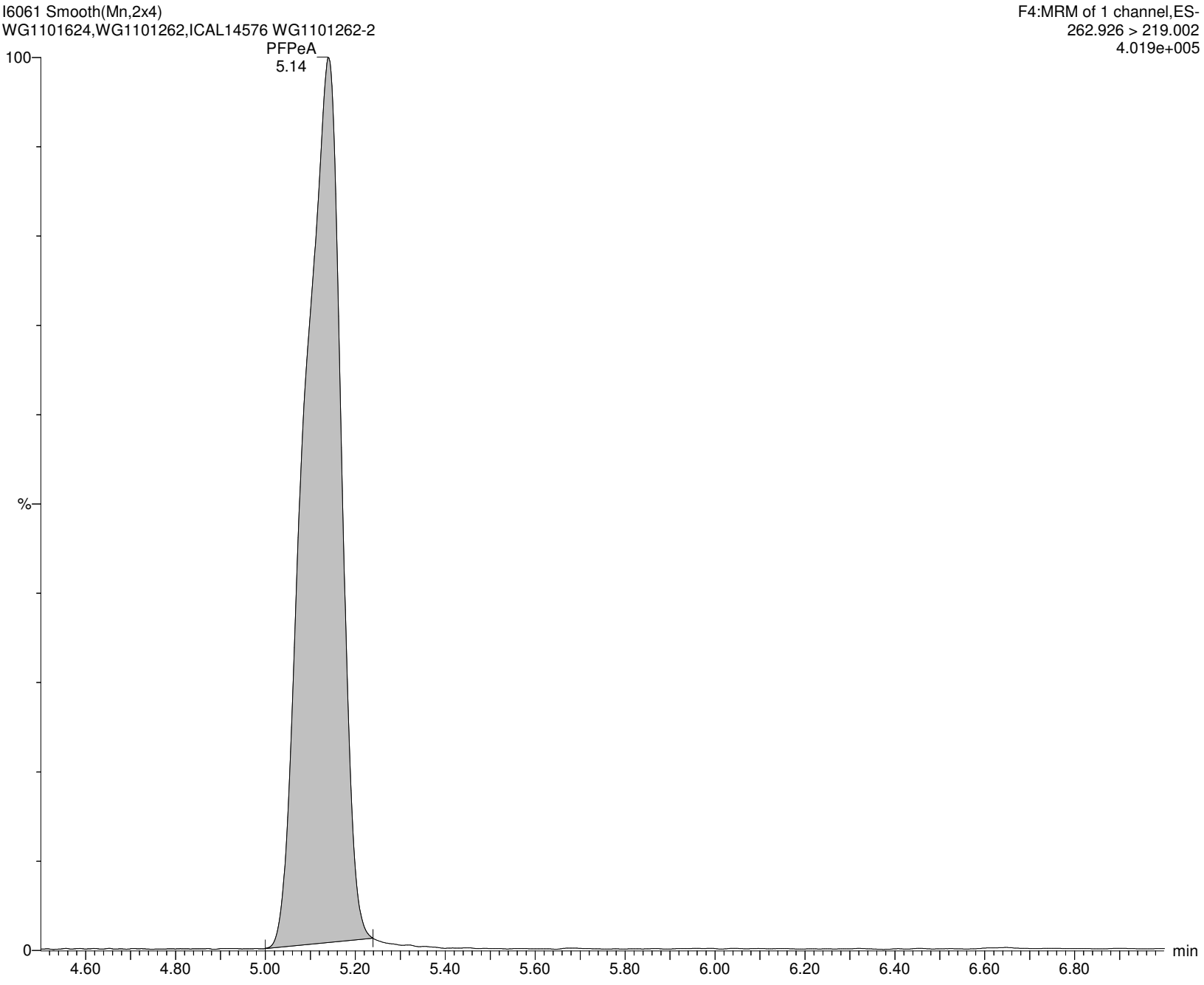

all concentration units in (ng/mL)

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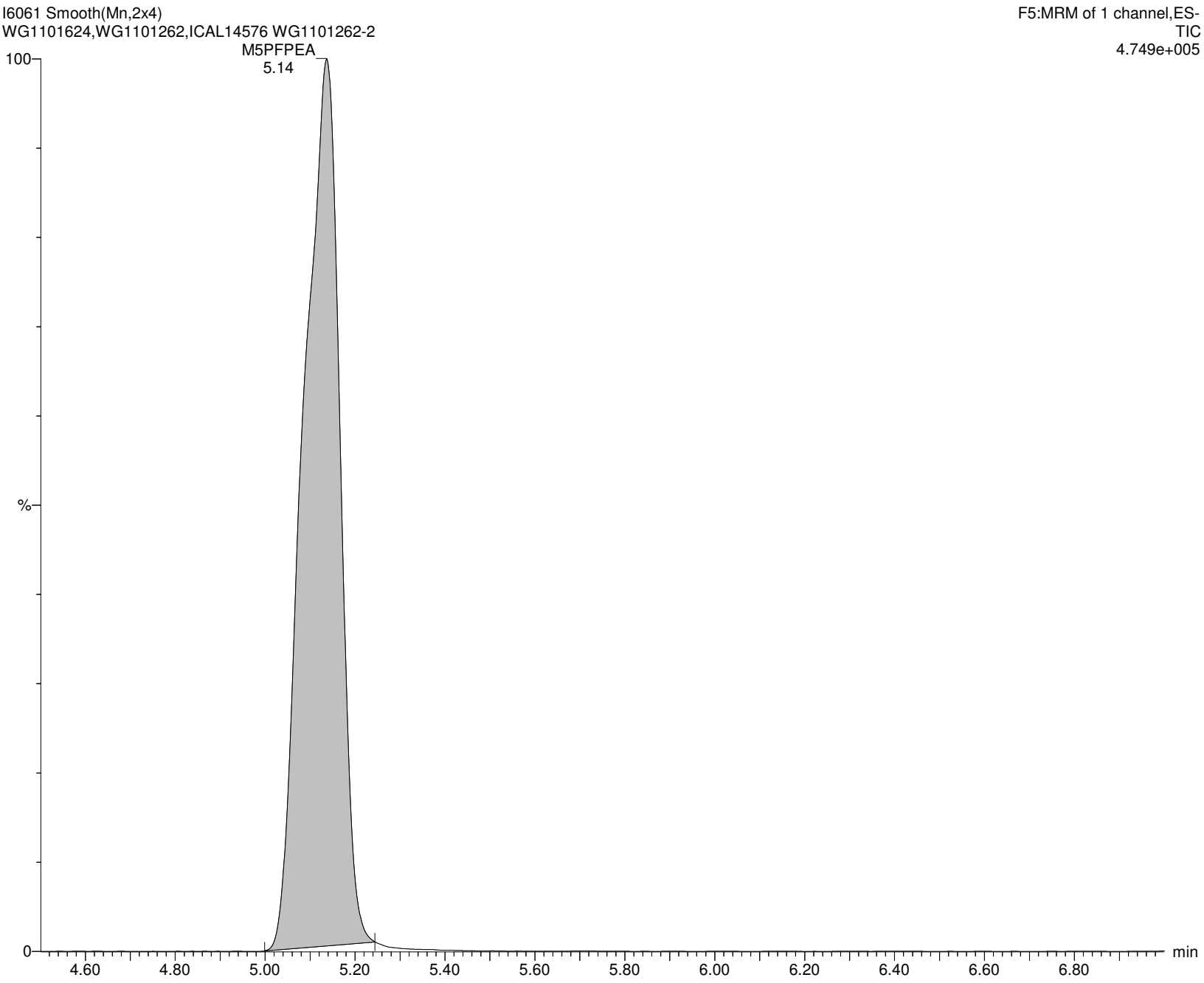

all concentration units in (ng/mL)

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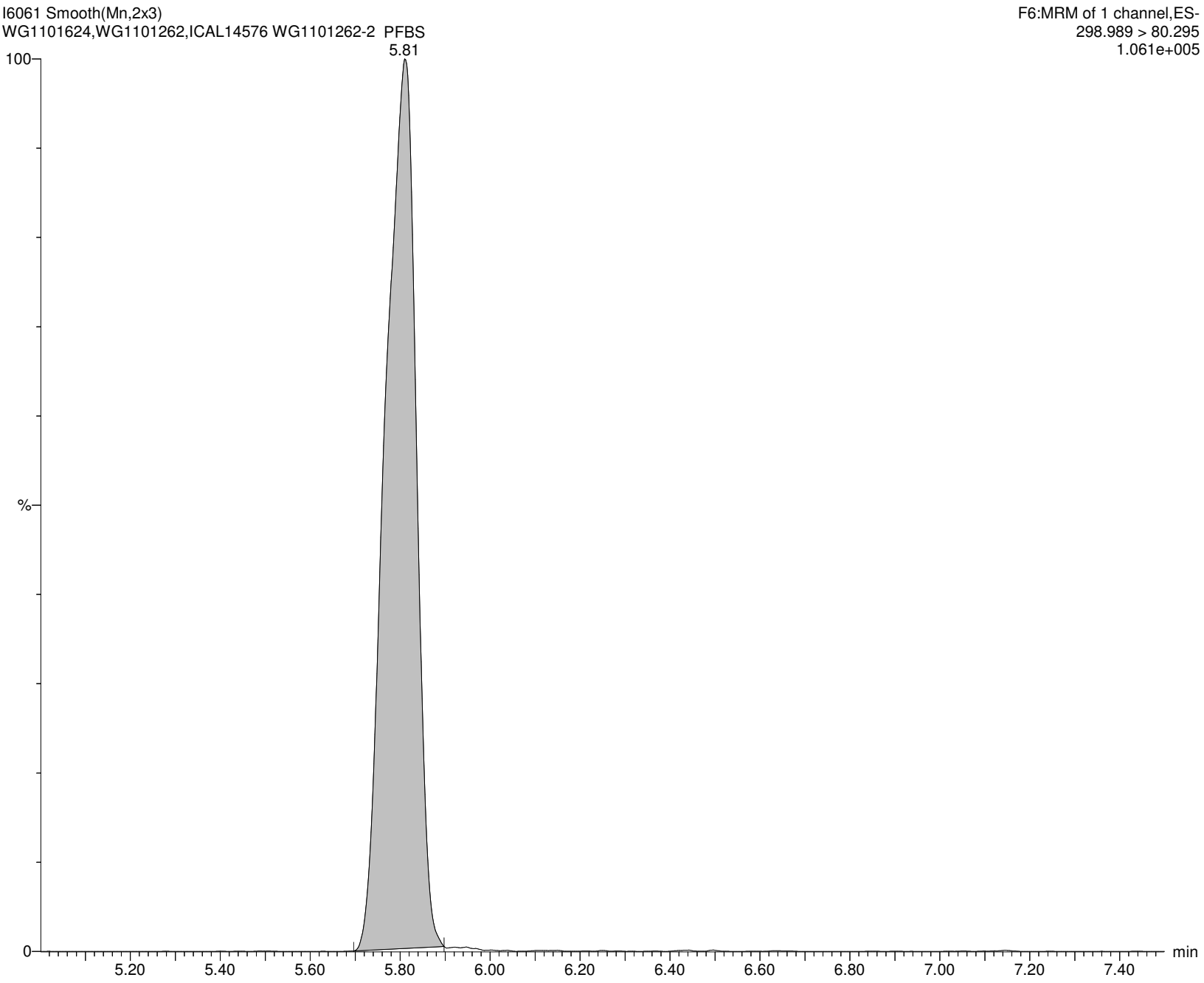

all concentration units in (ng/mL)

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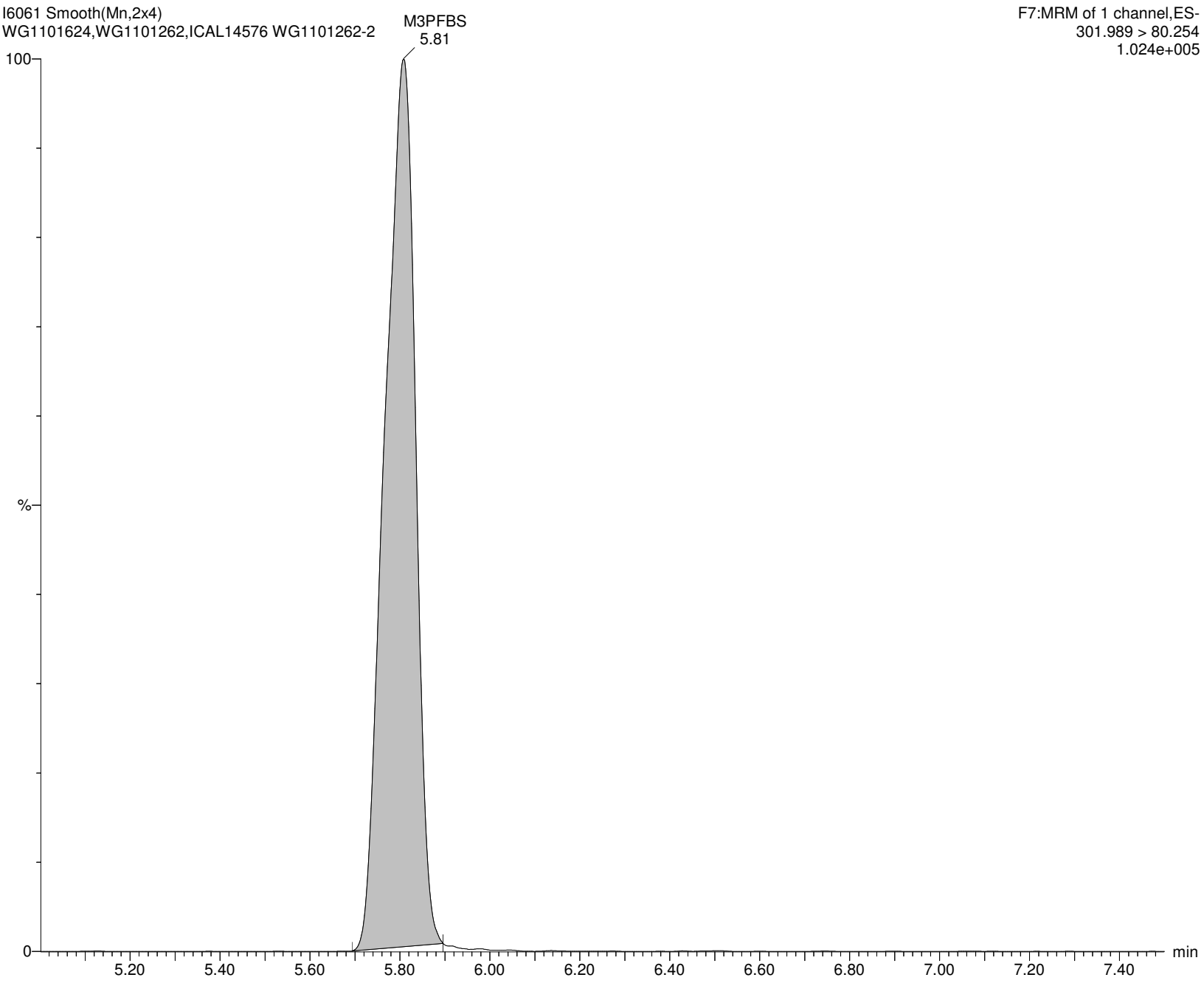

all concentration units in (ng/mL)

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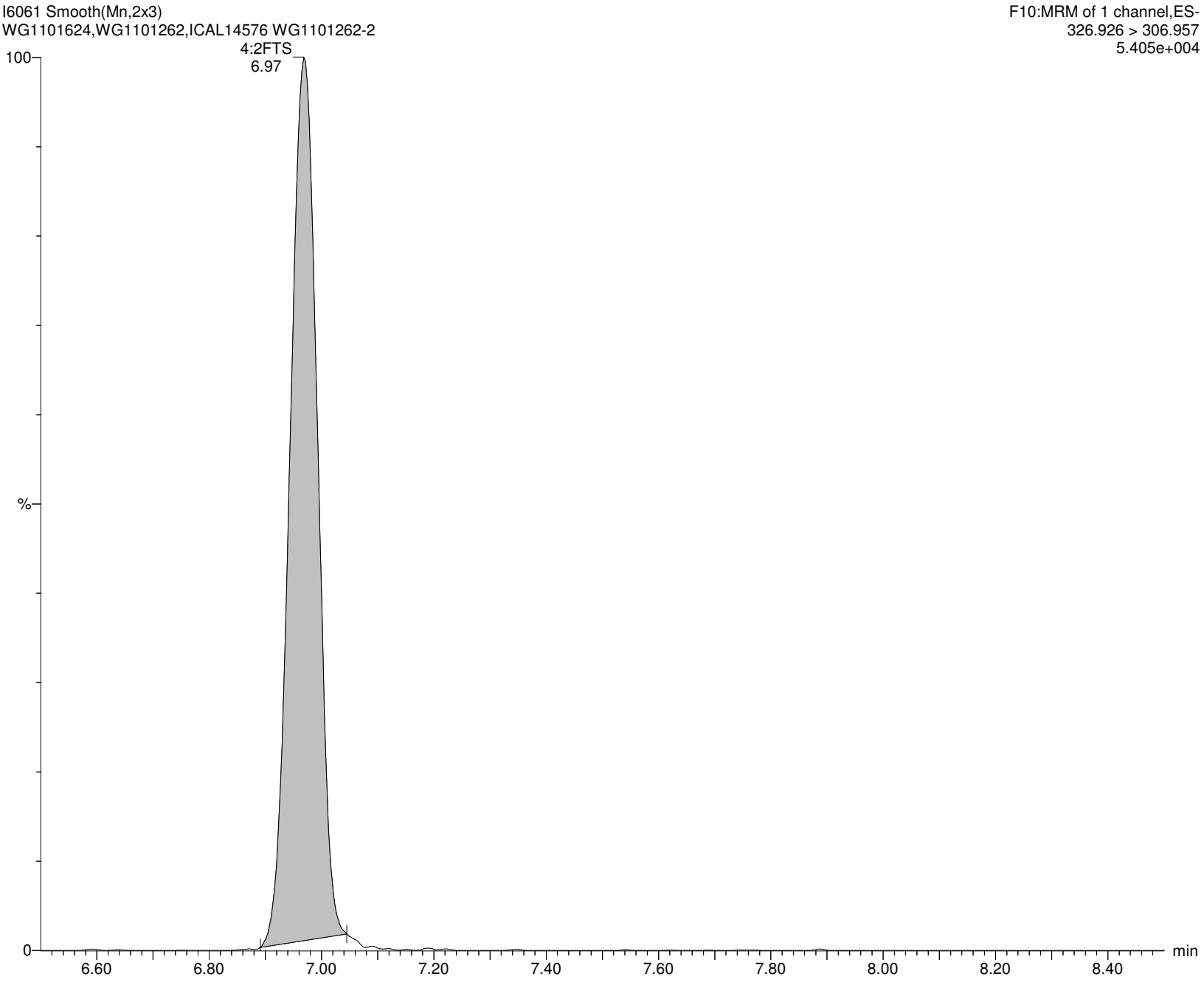

all concentration units in (ng/mL)

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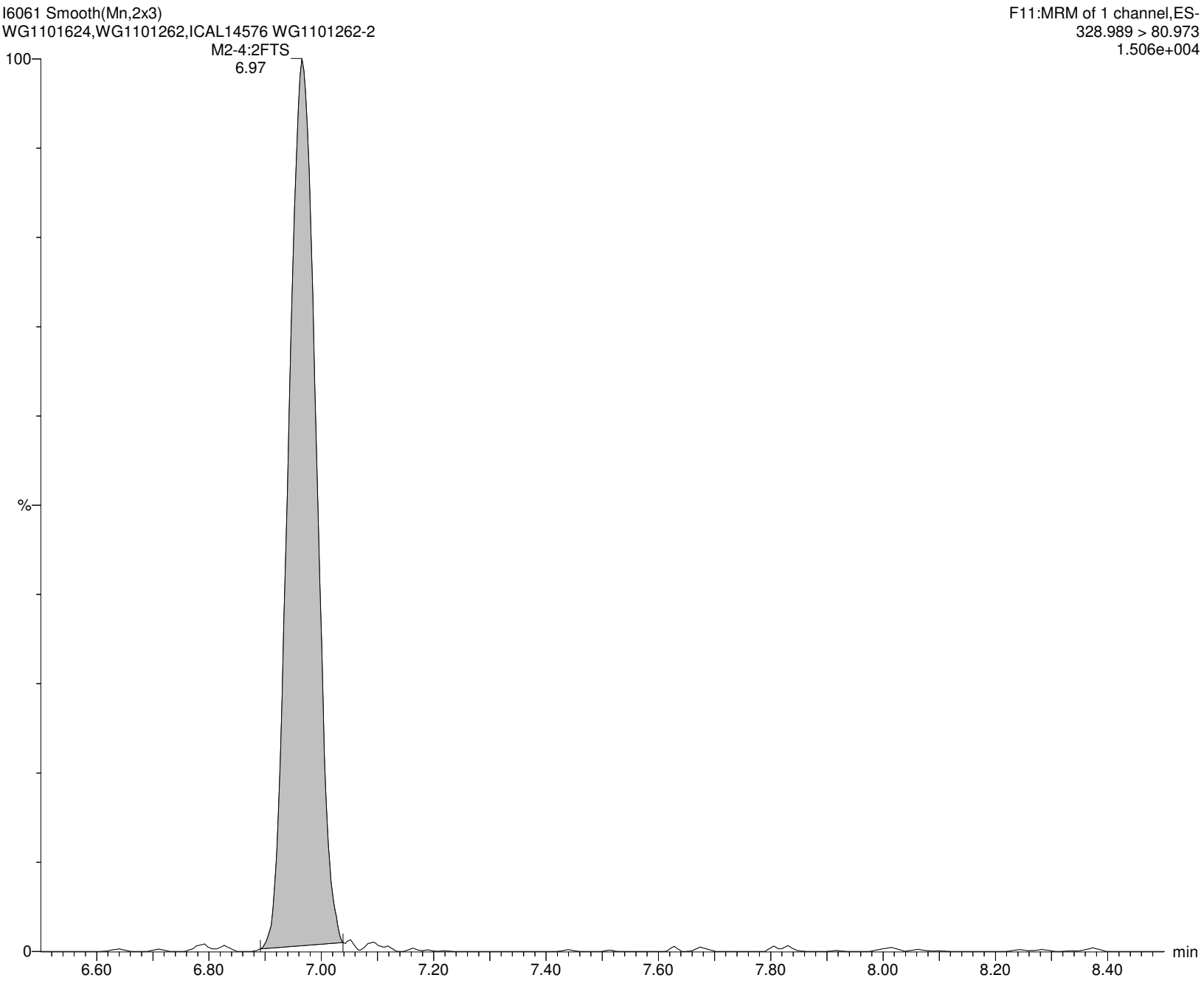

all concentration units in (ng/mL)

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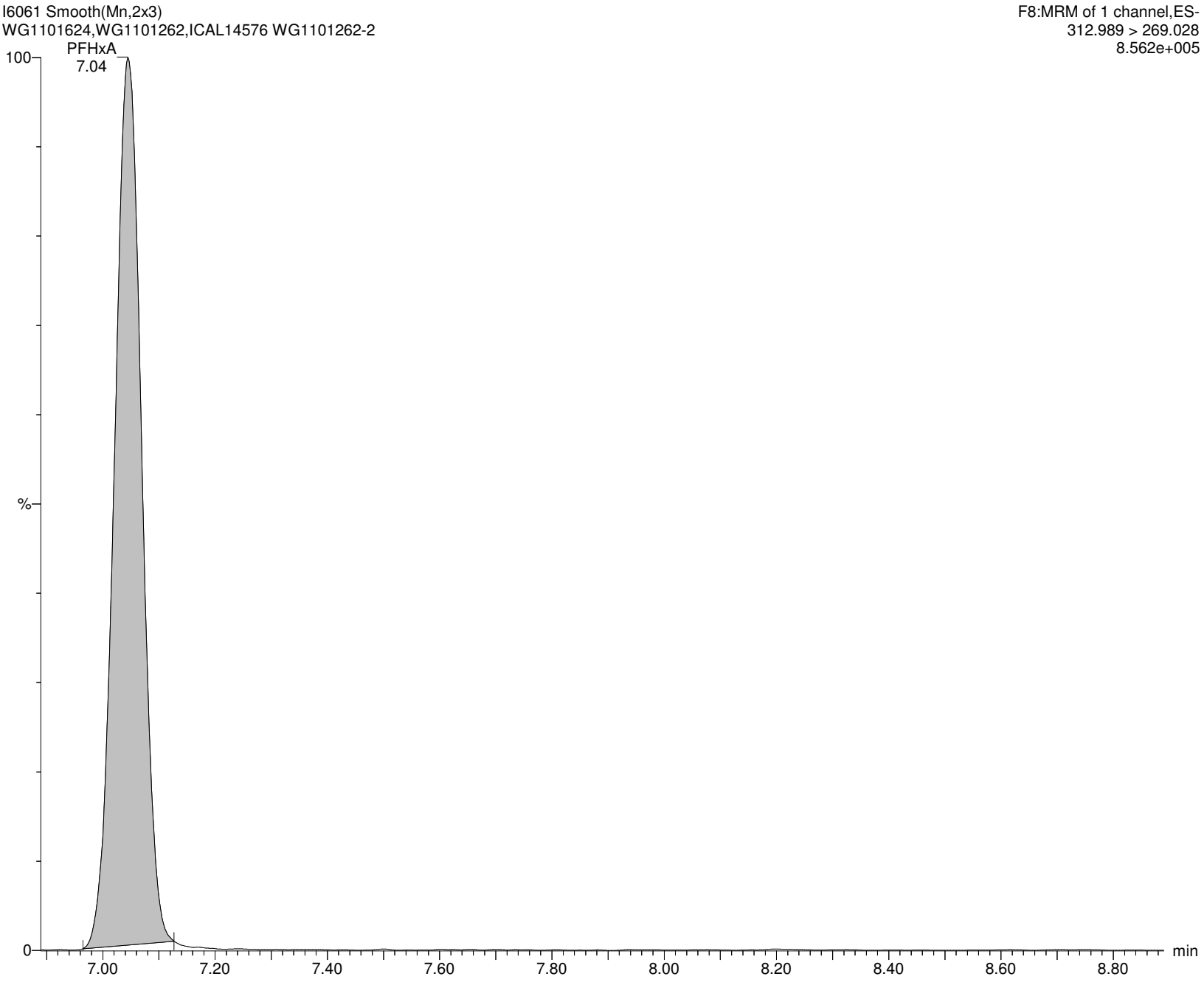

all concentration units in (ng/mL)

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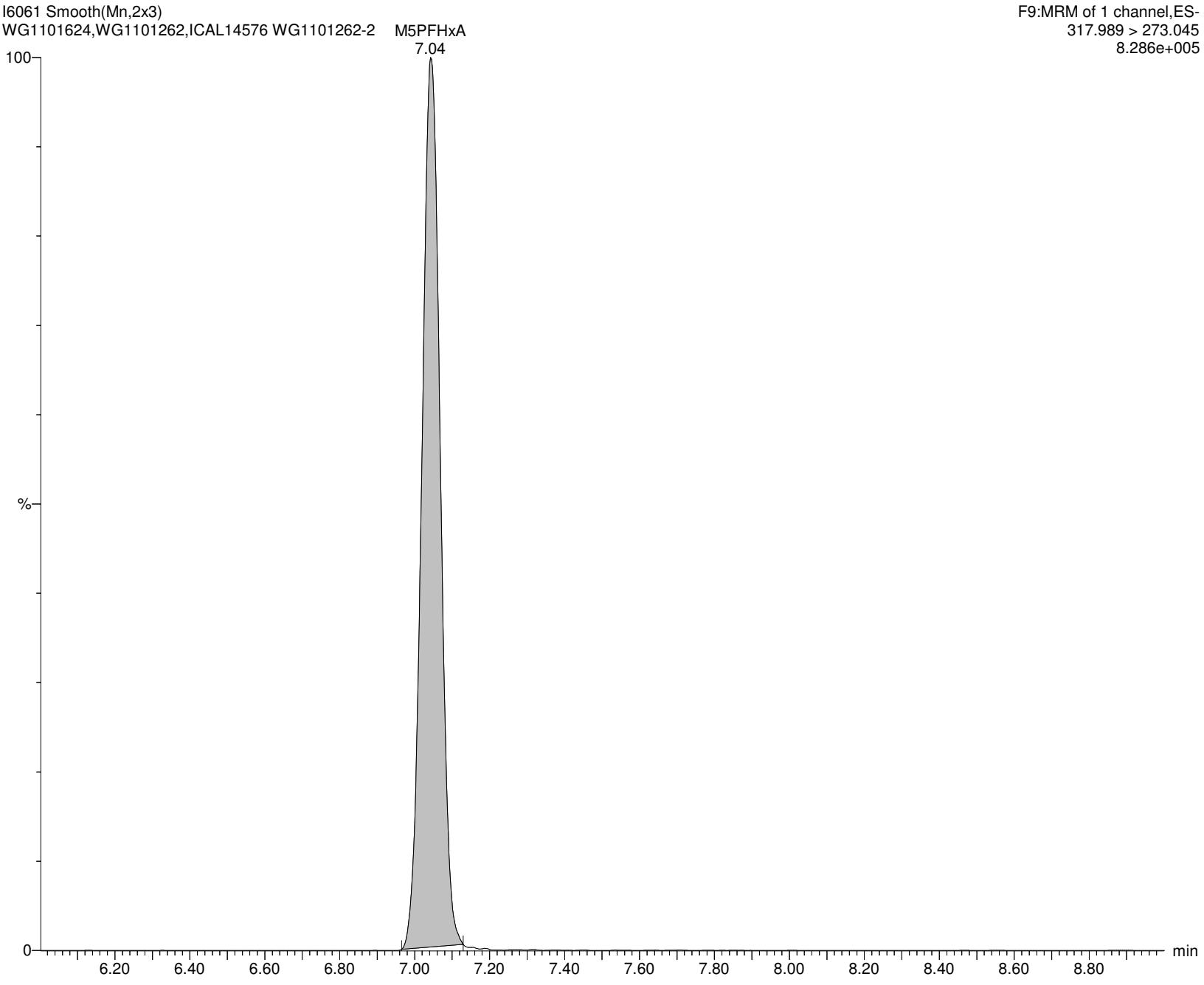

all concentration units in (ng/mL)

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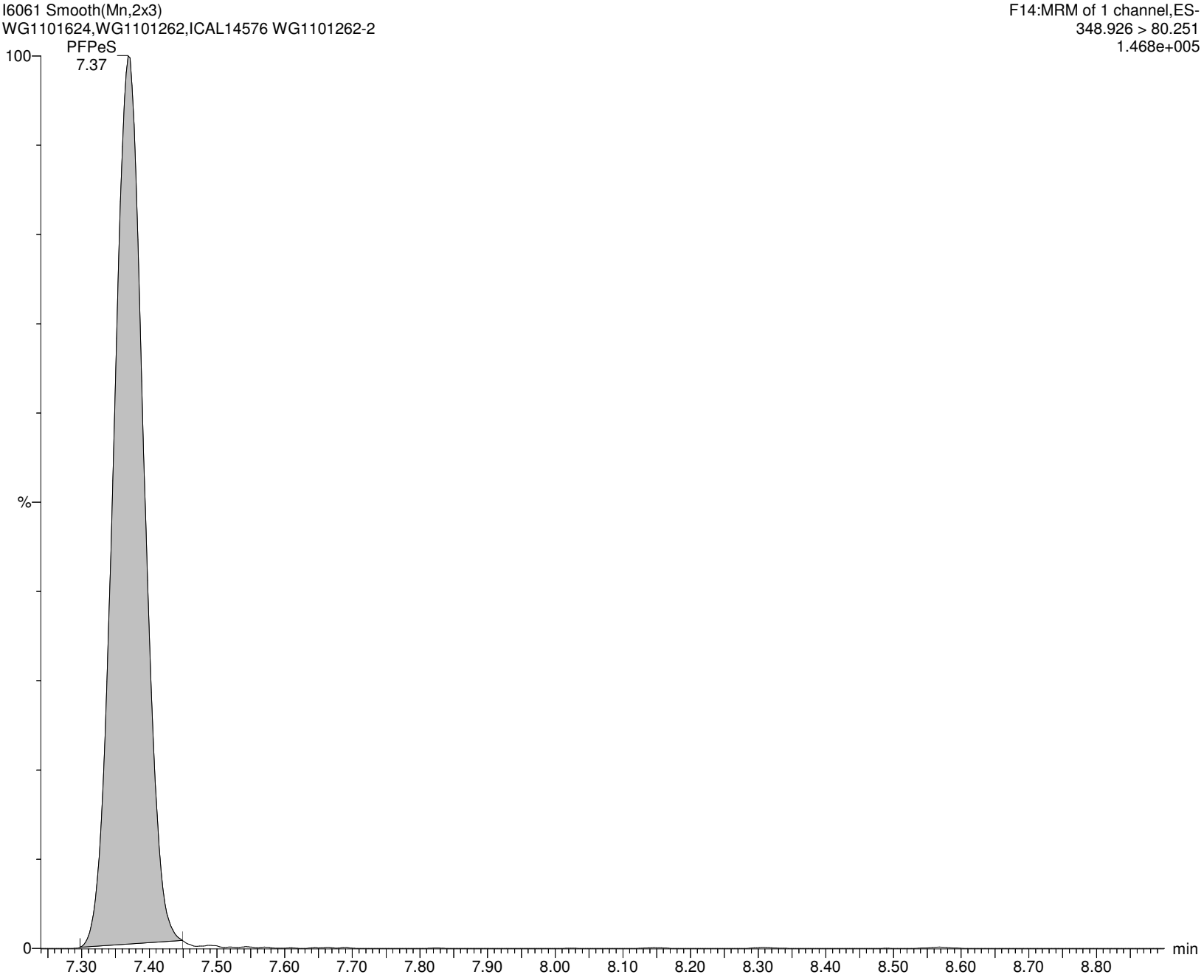

all concentration units in (ng/mL)

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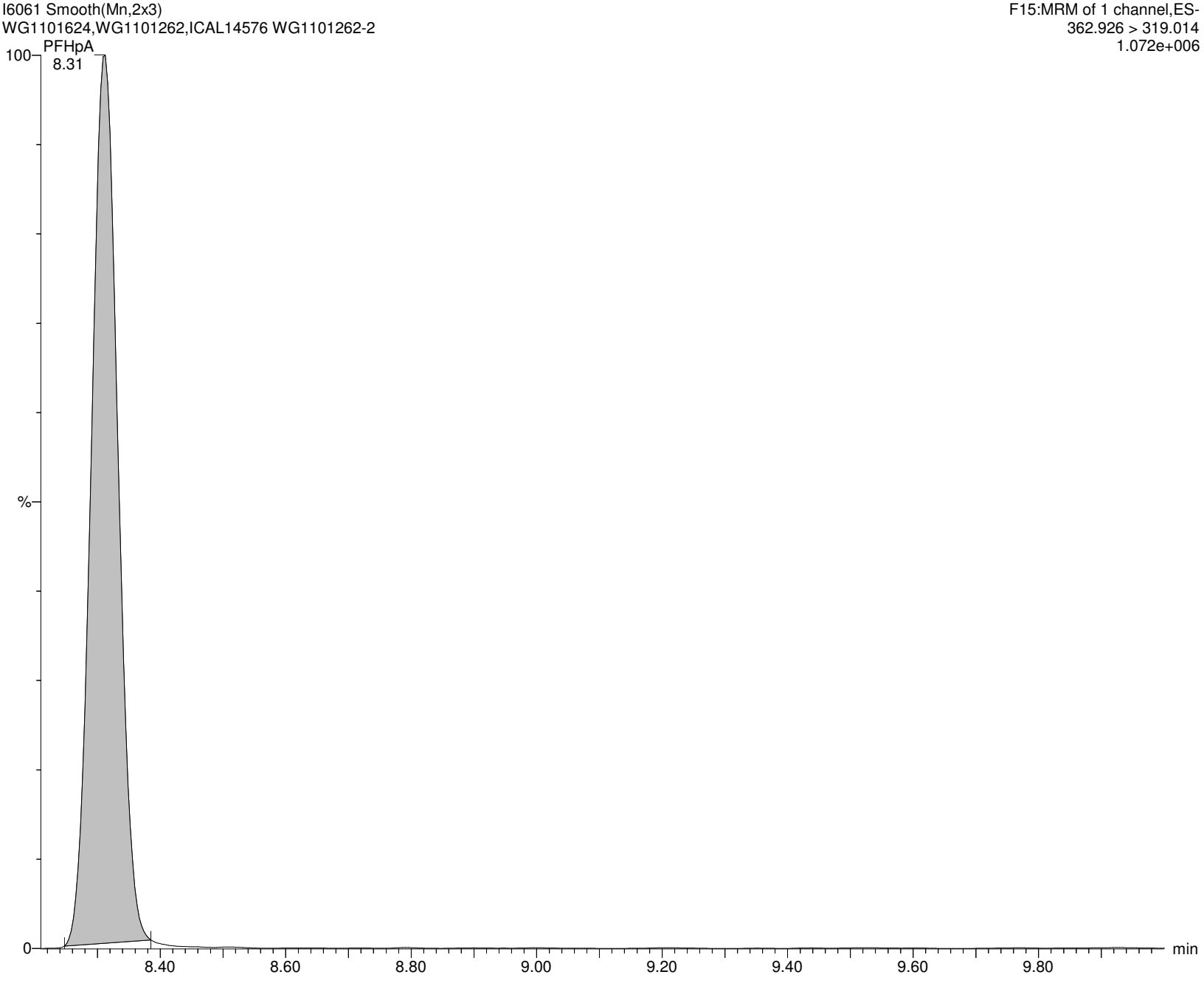

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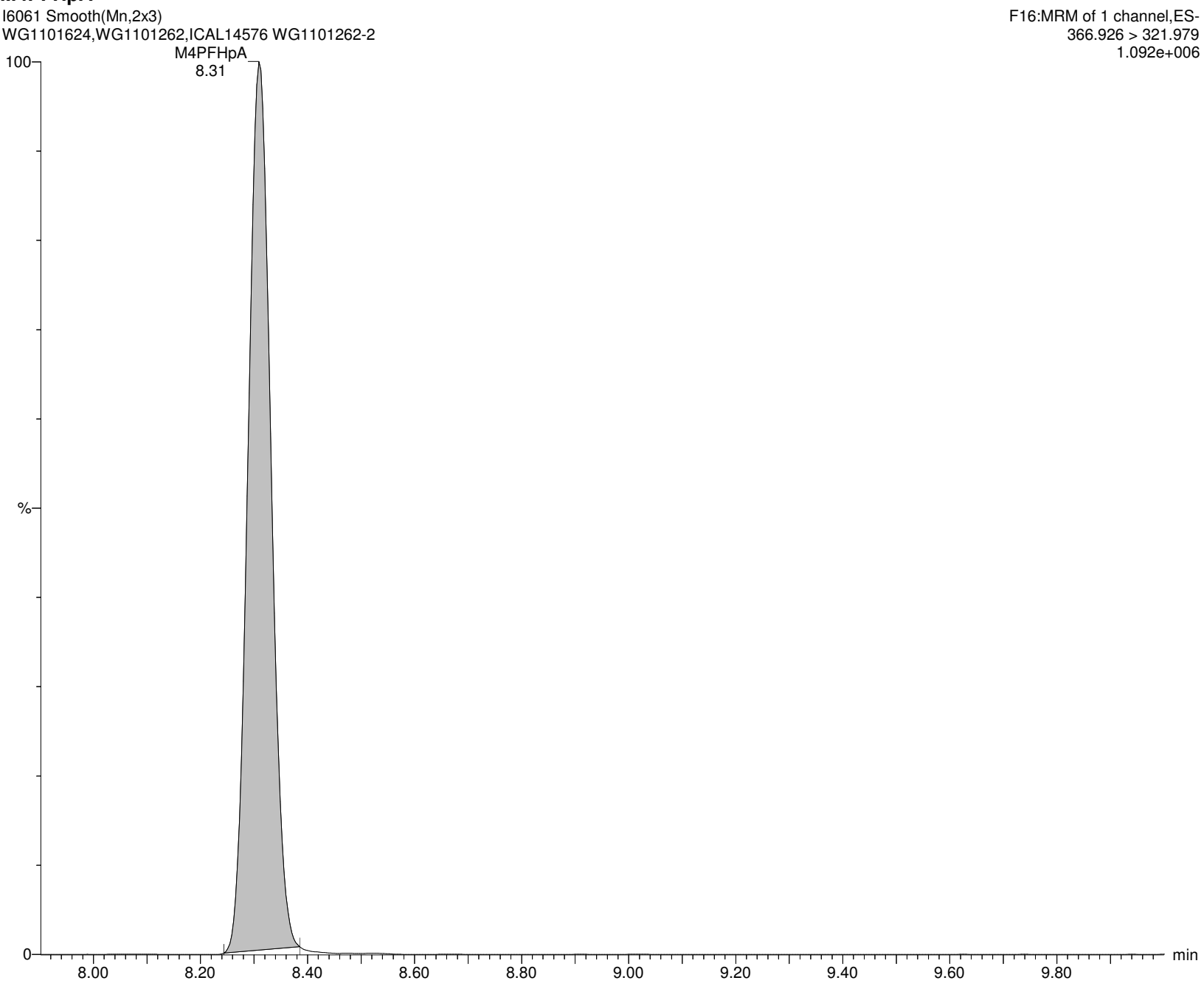

all concentration units in (ng/mL)

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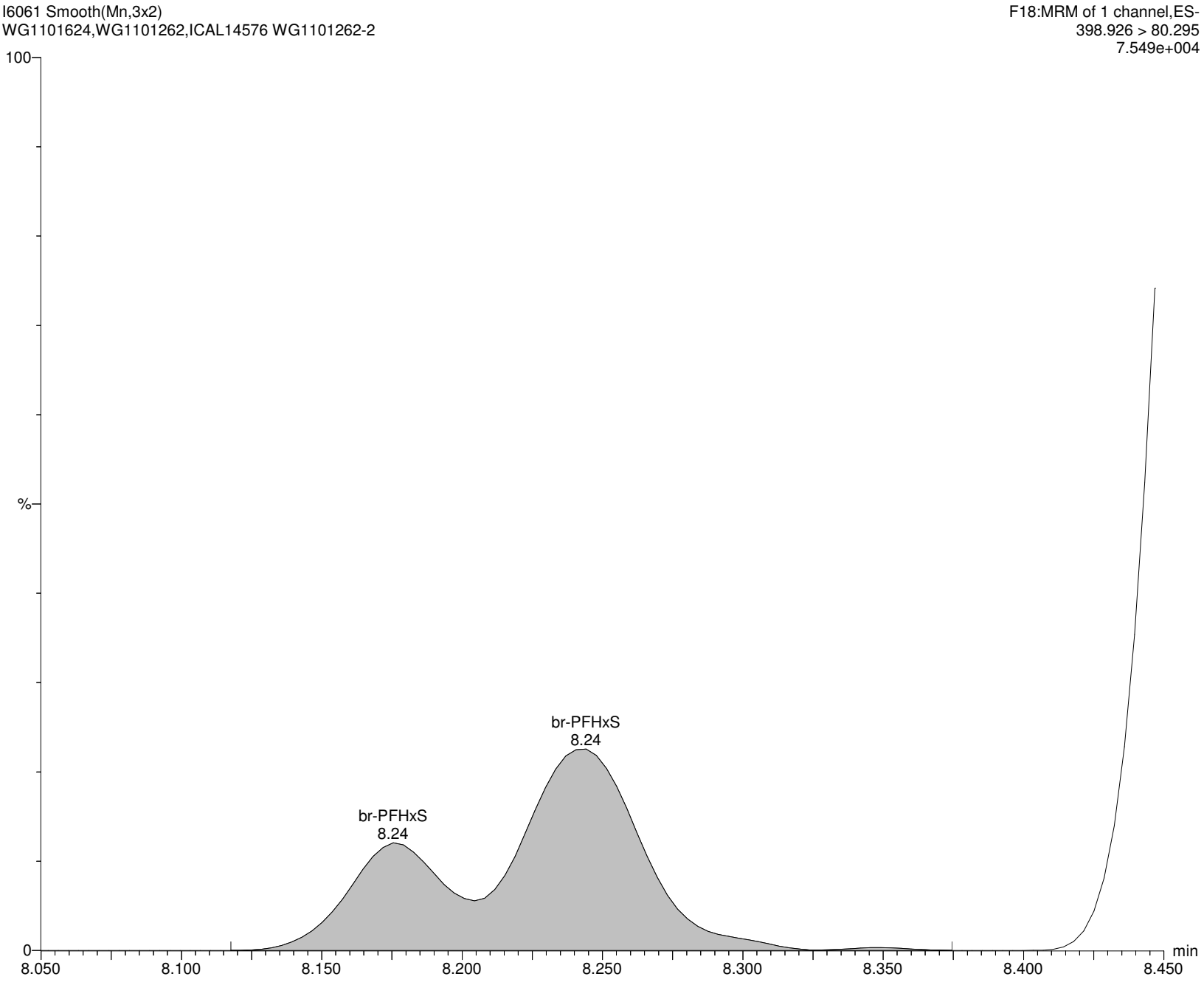

all concentration units in (ng/mL)

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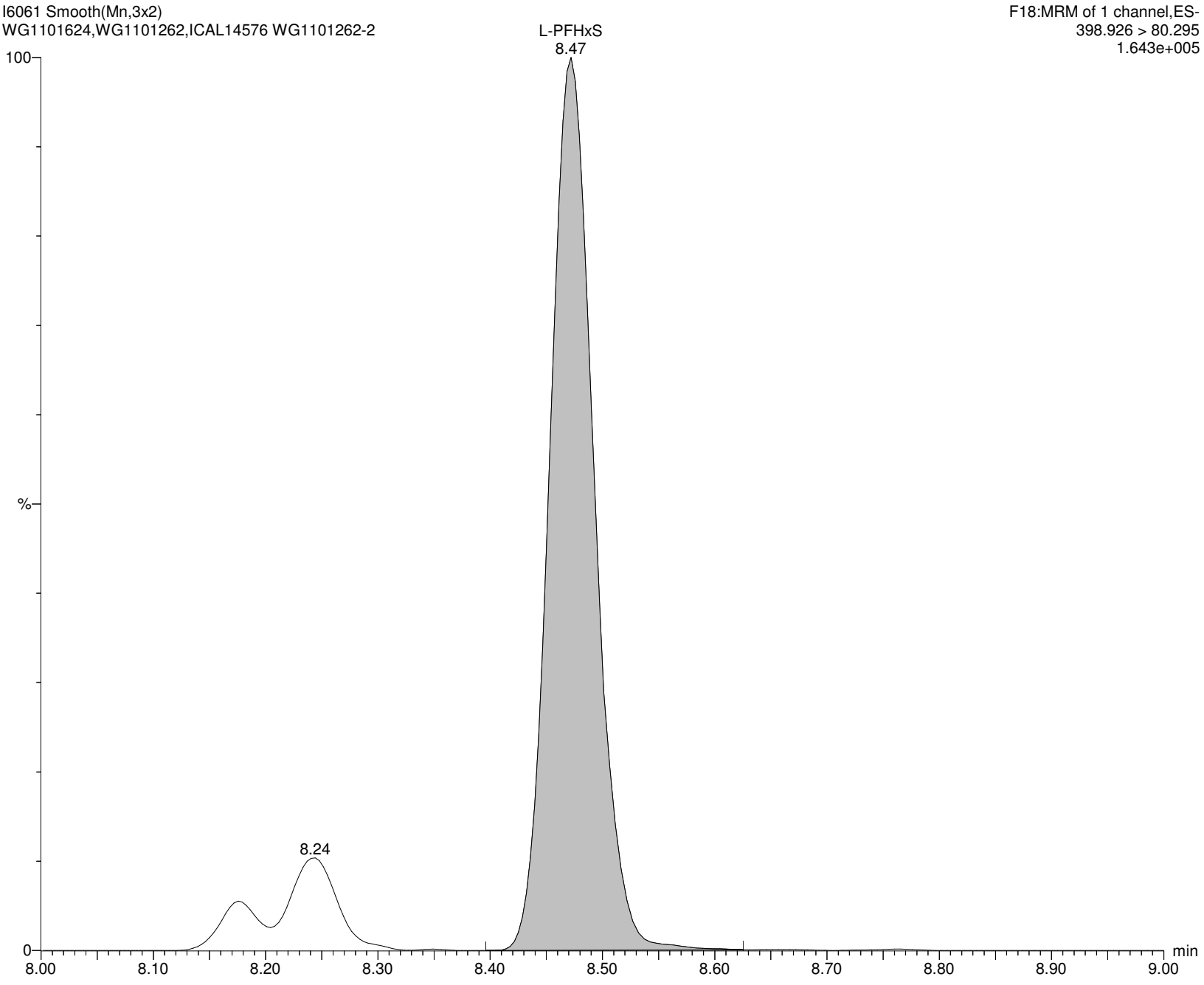
L-PFHxS



all concentration units in (ng/mL)

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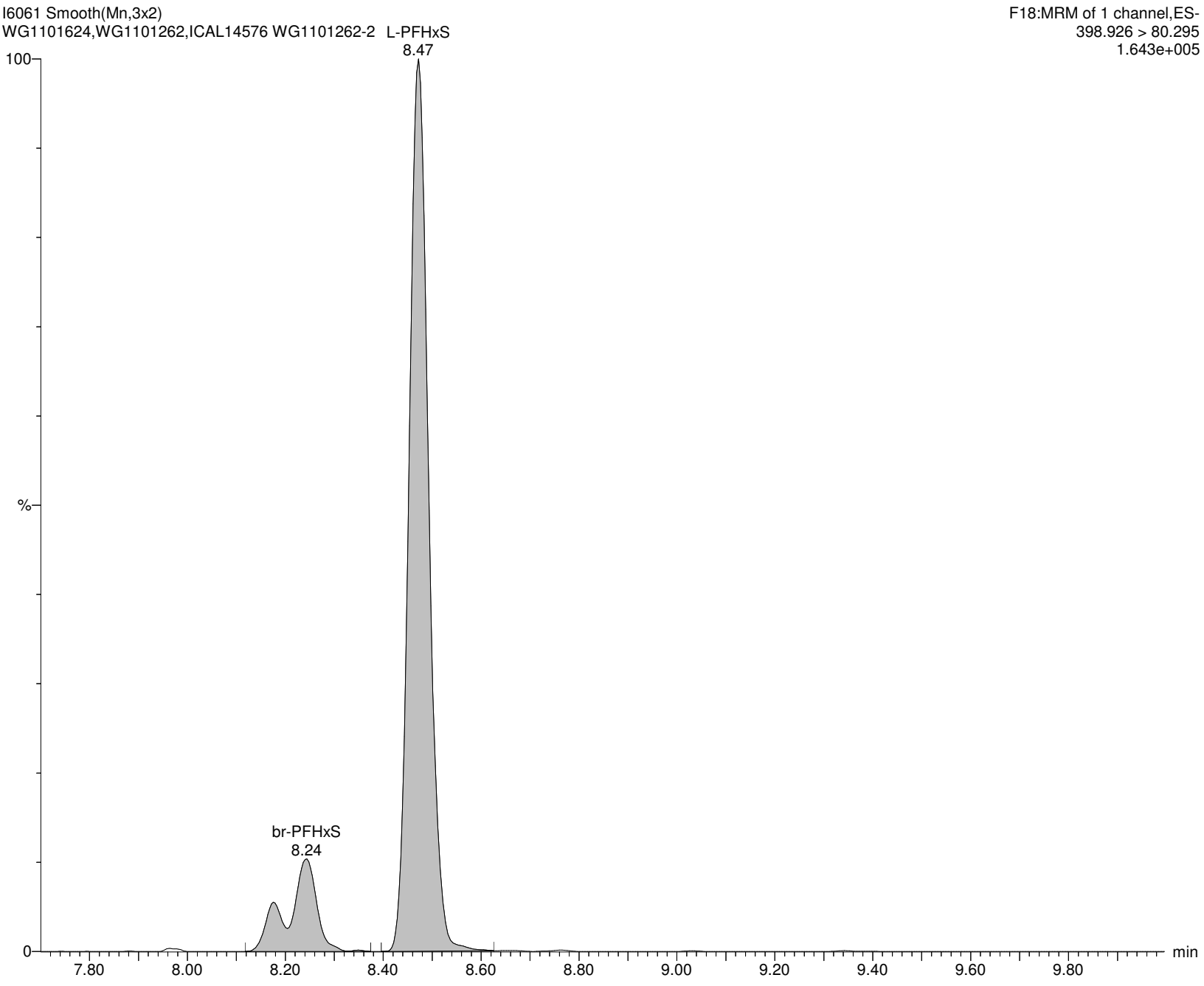
PFHxS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:03 Eastern Daylight Time

Name: I6061
ID: WG1101262-2
Date: 29-Mar-2018
Time: 16:38:44
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
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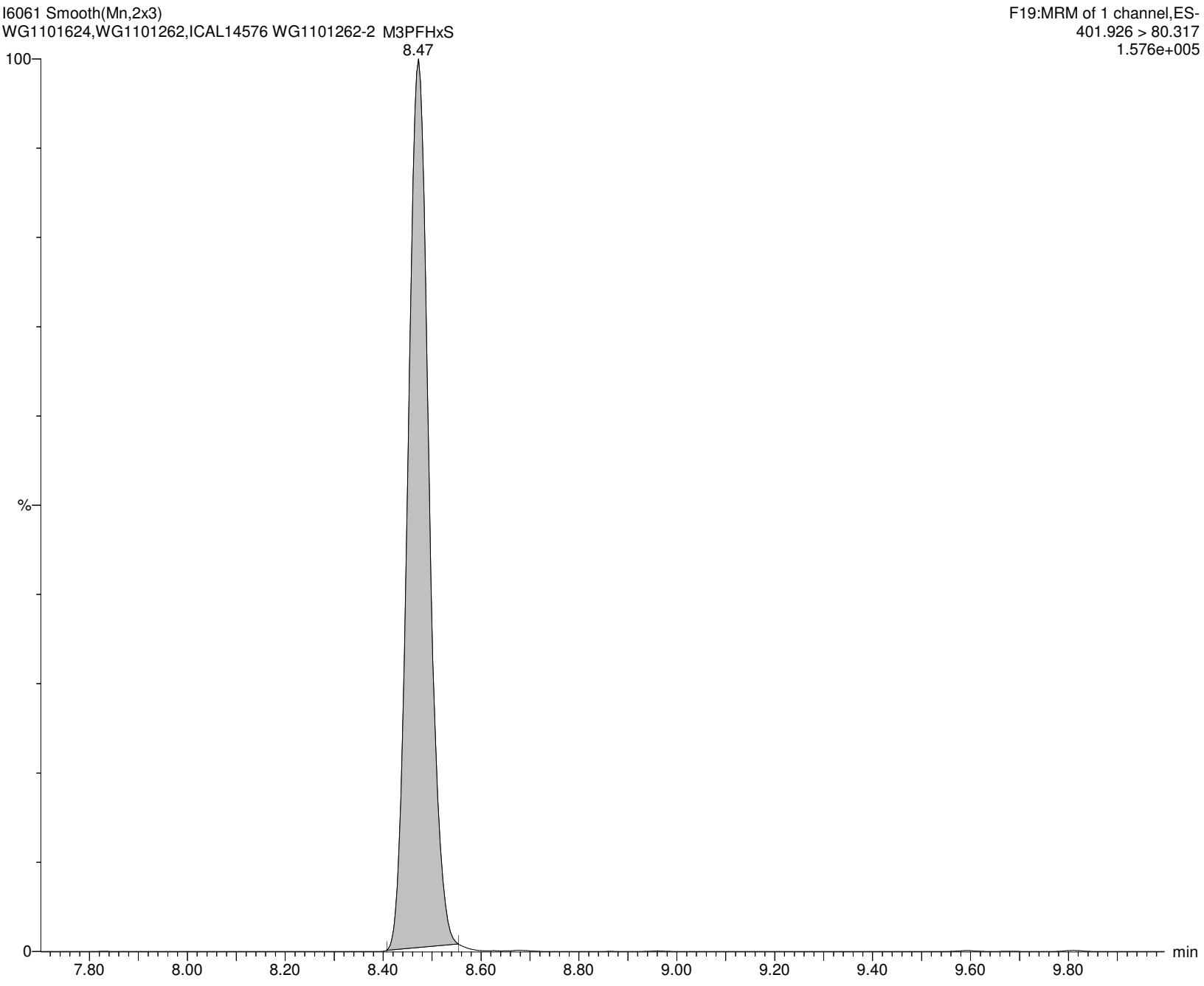

all concentration units in (ng/mL)

Alpha Analytical Inc.
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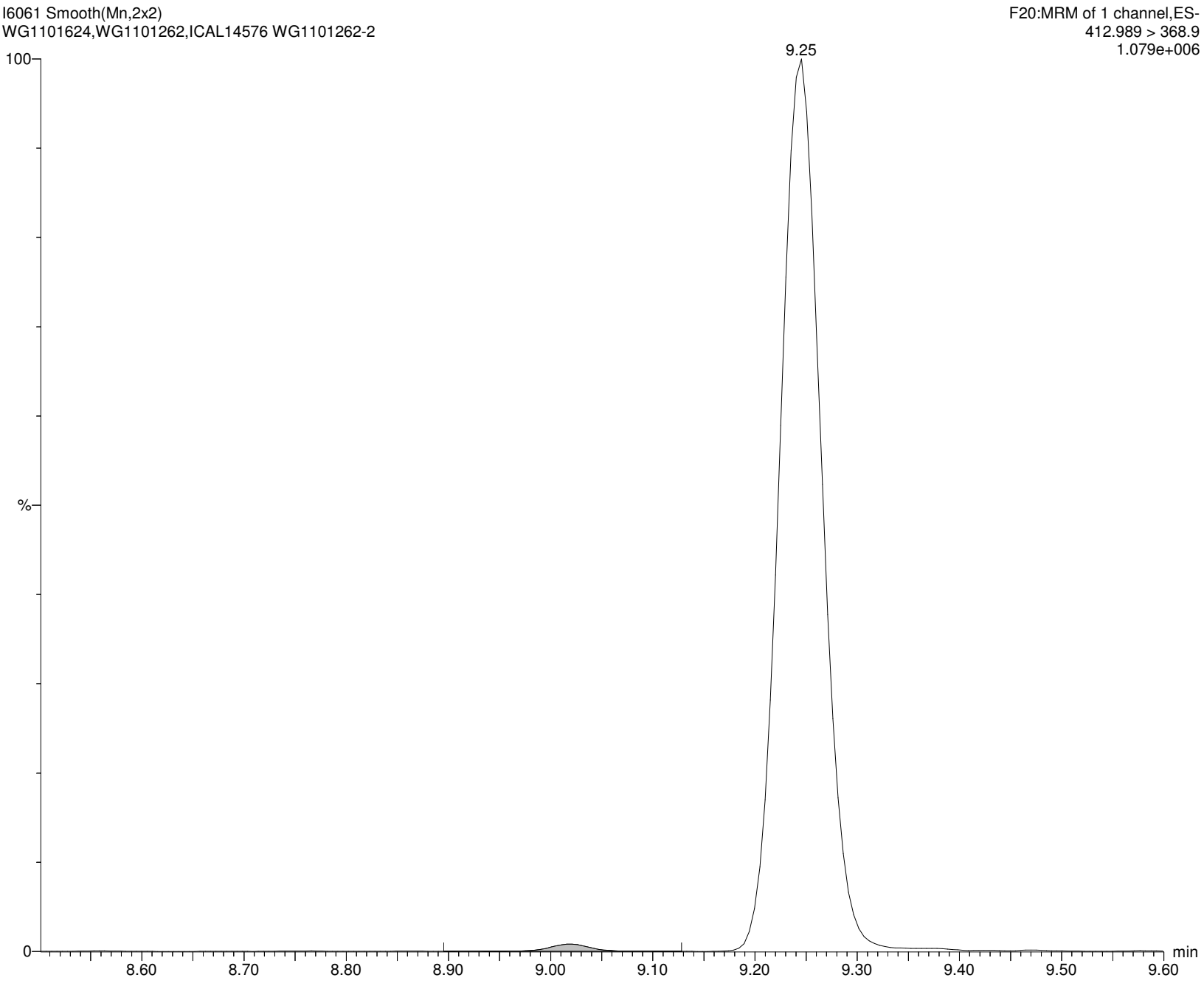

all concentration units in (ng/mL)

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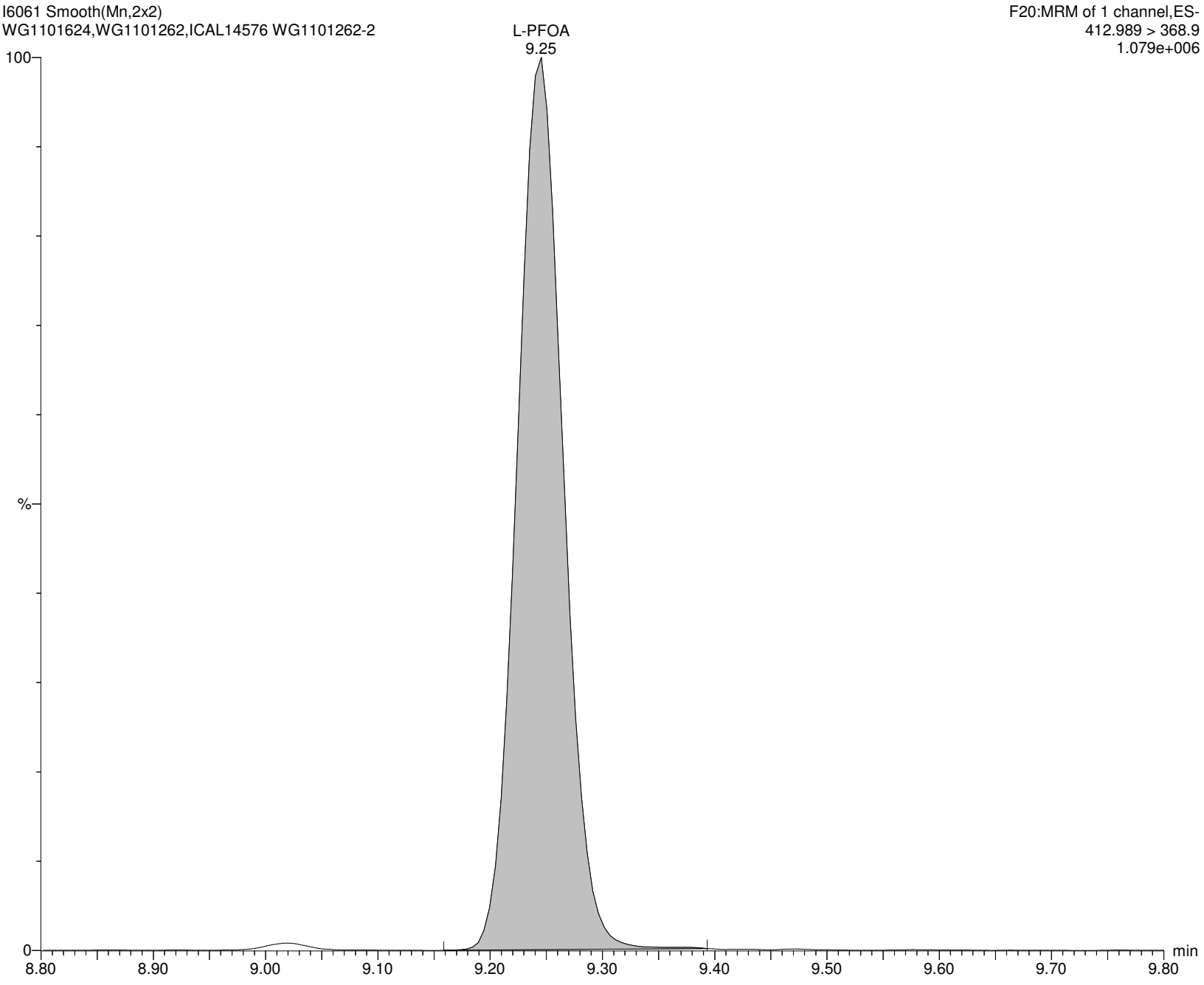

all concentration units in (ng/mL)

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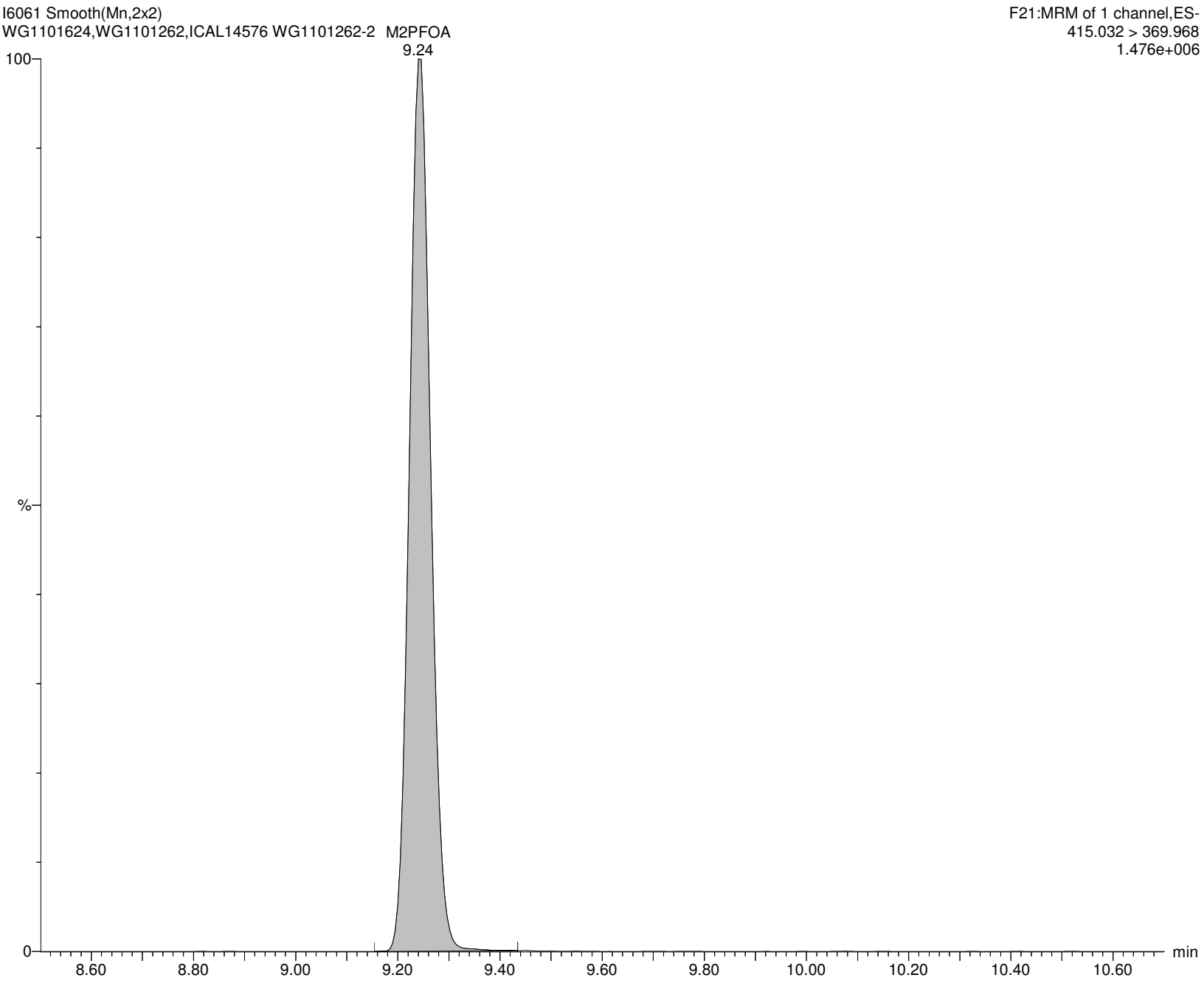

all concentration units in (ng/mL)

Alpha Analytical Inc.
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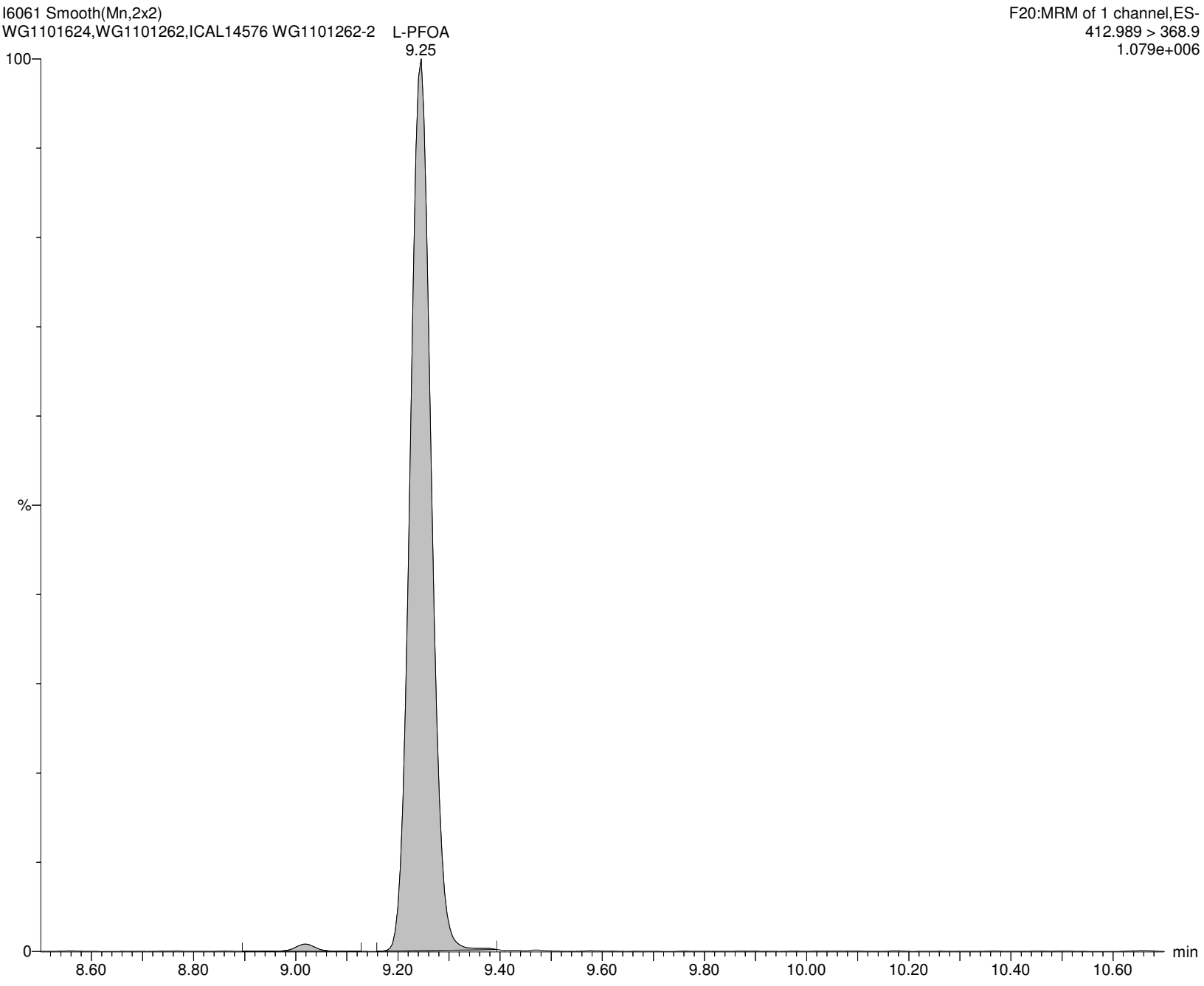

all concentration units in (ng/mL)

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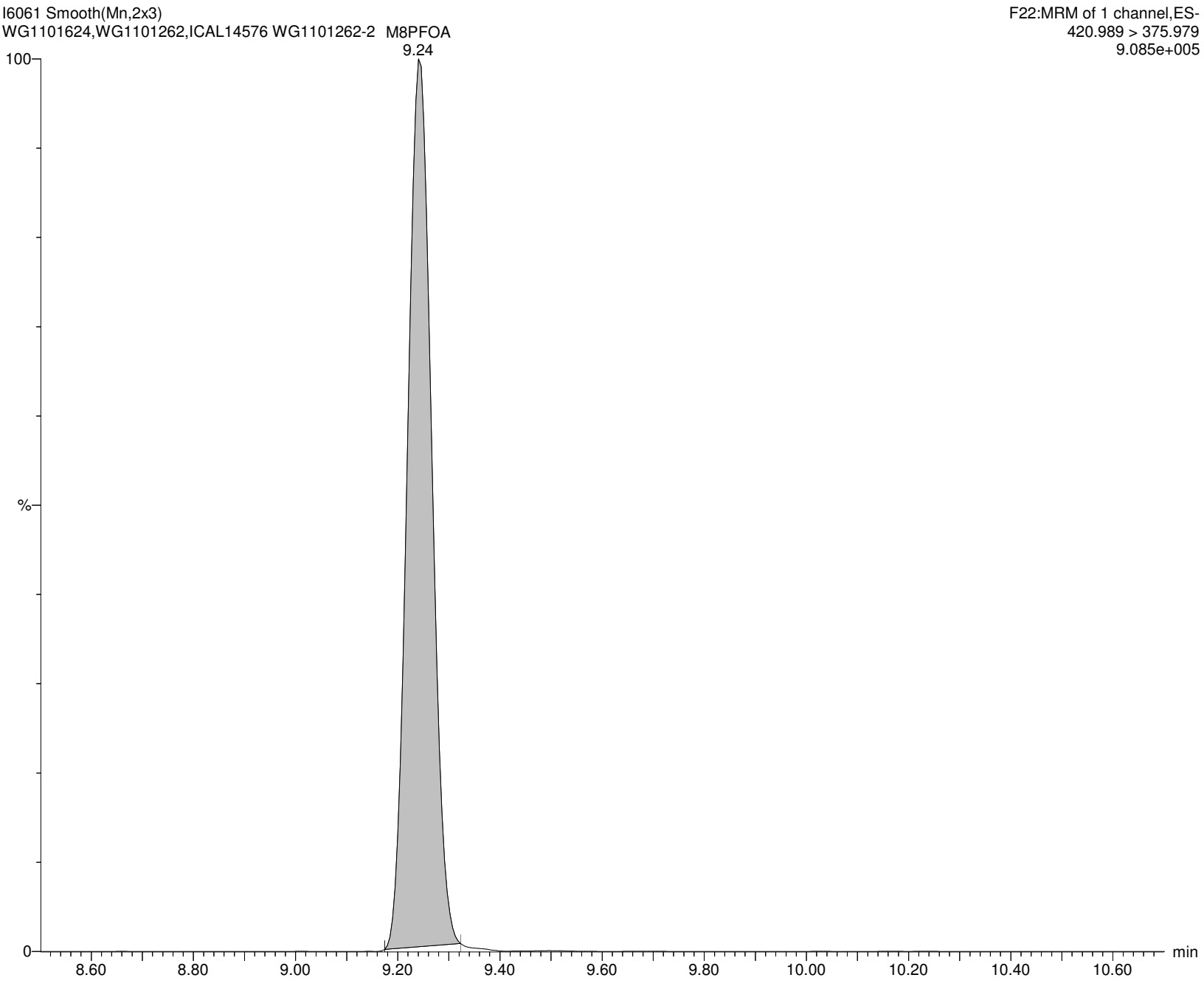

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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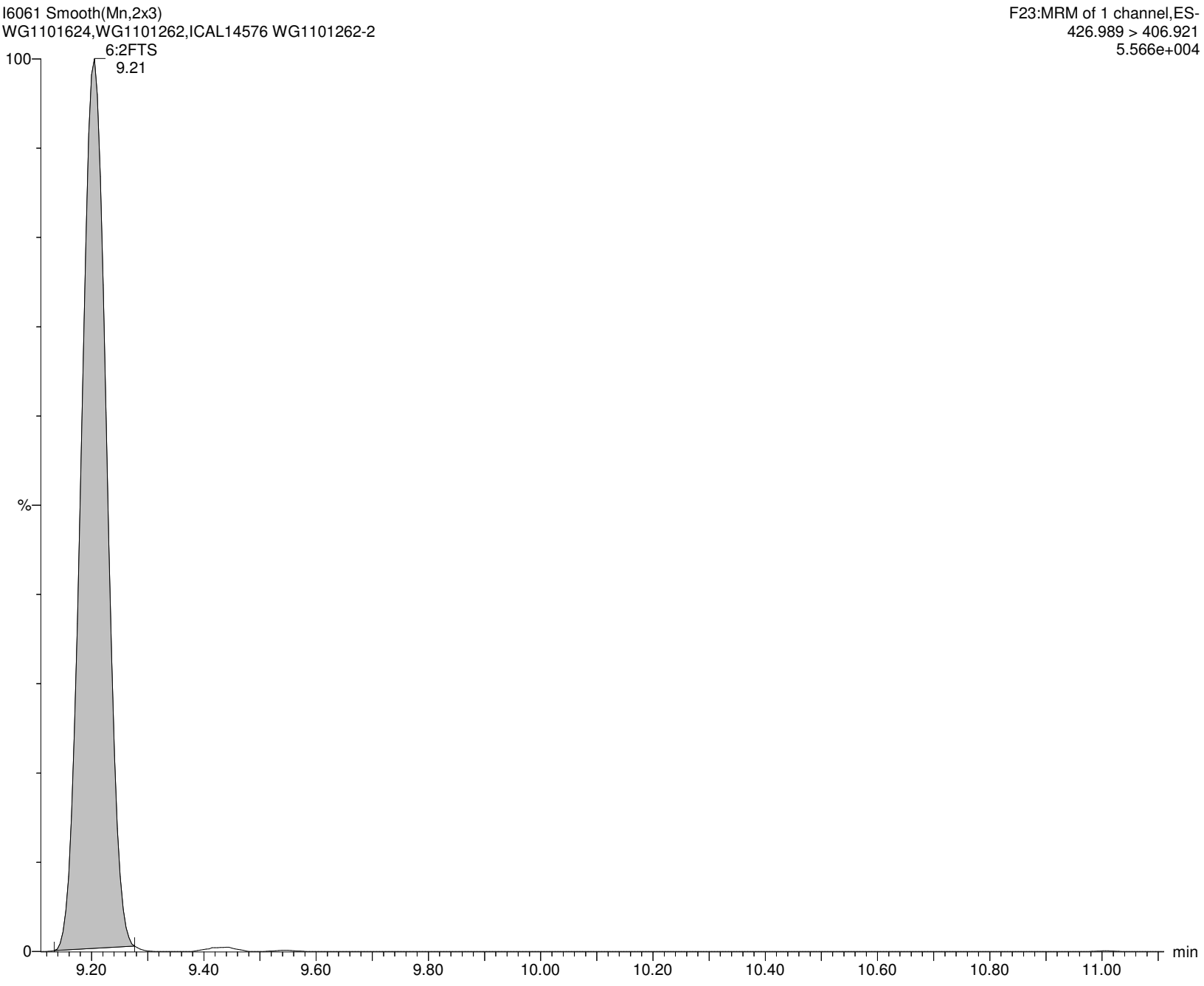

all concentration units in (ng/mL)

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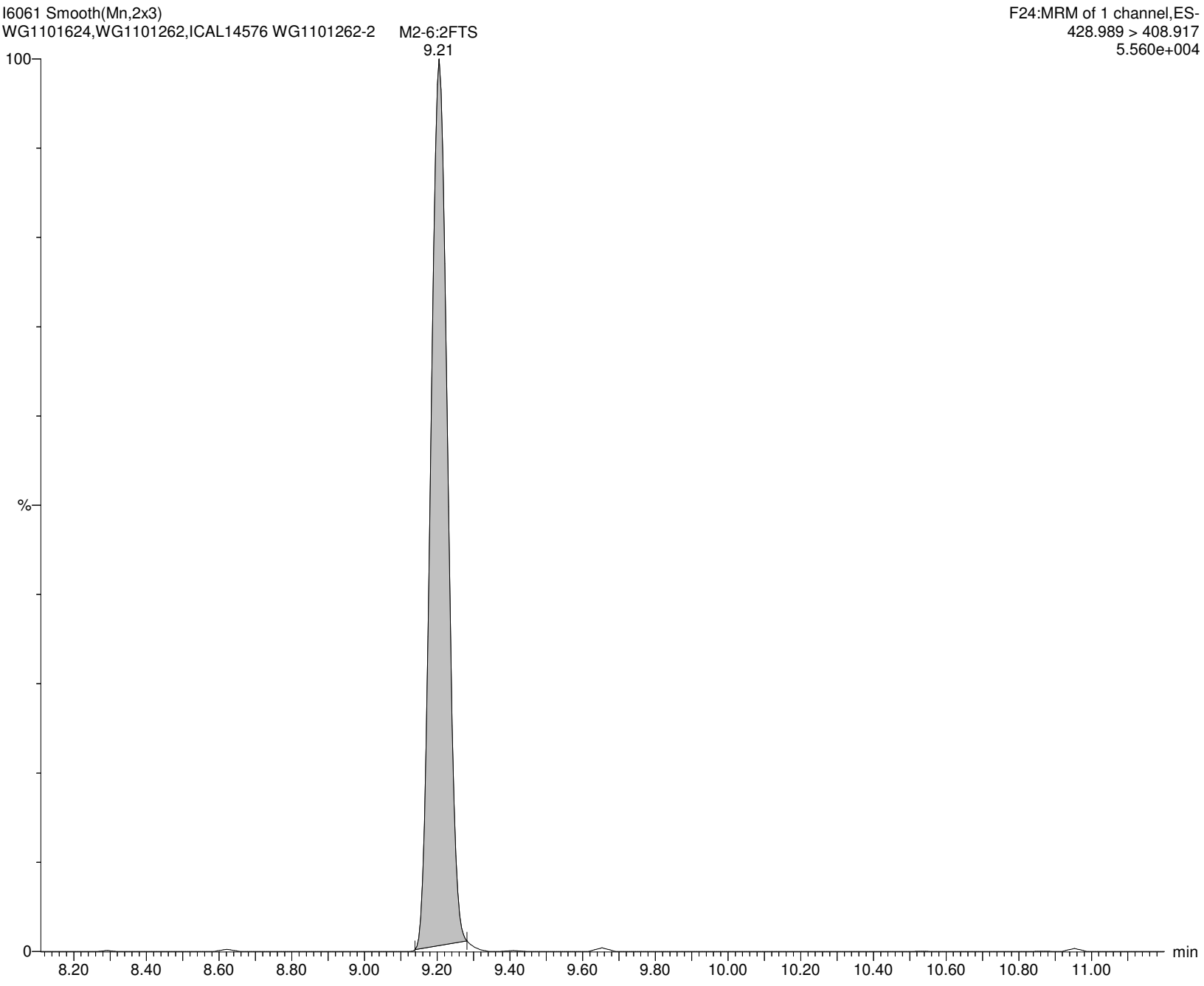

all concentration units in (ng/mL)

Alpha Analytical Inc.
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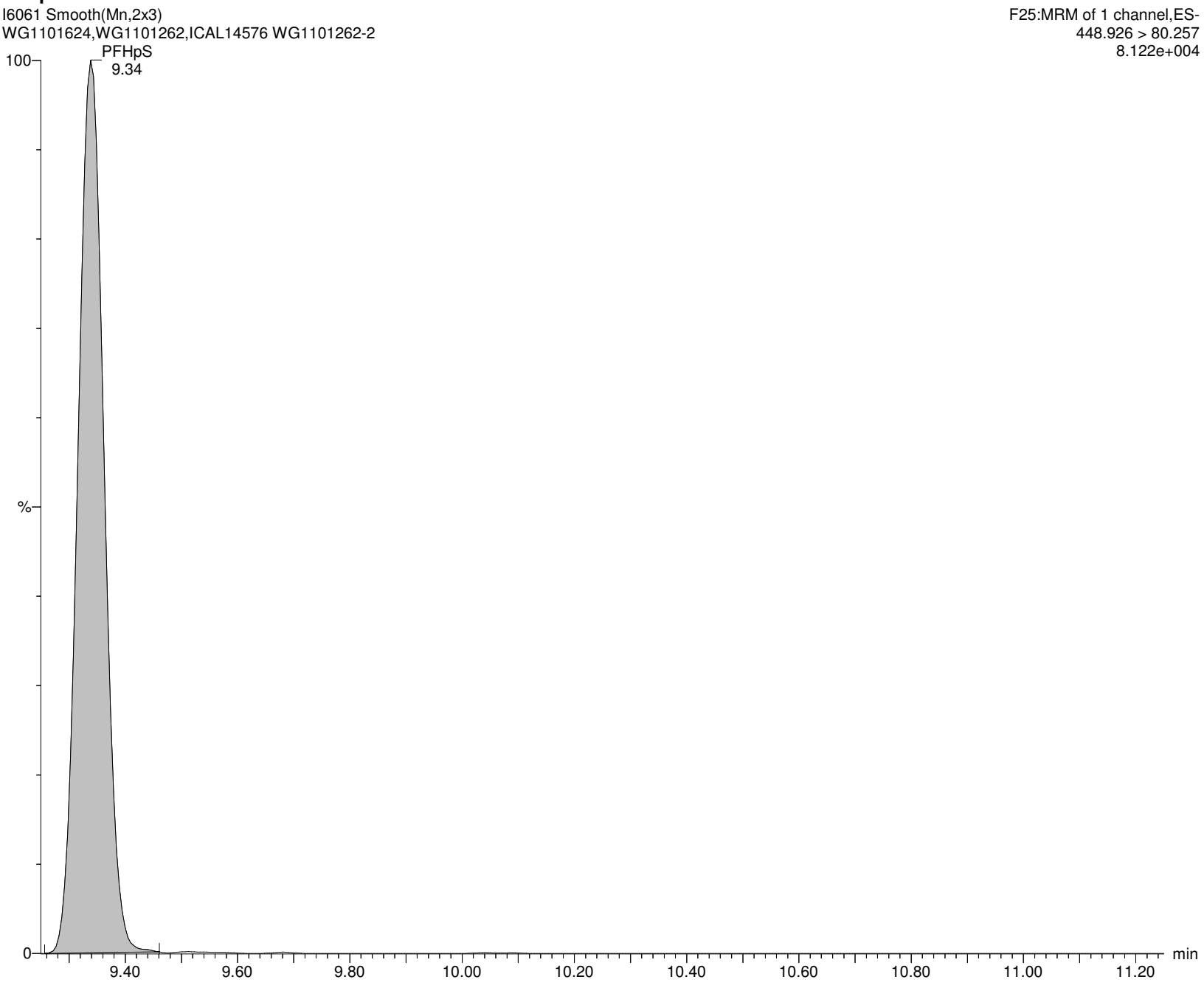

all concentration units in (ng/mL)

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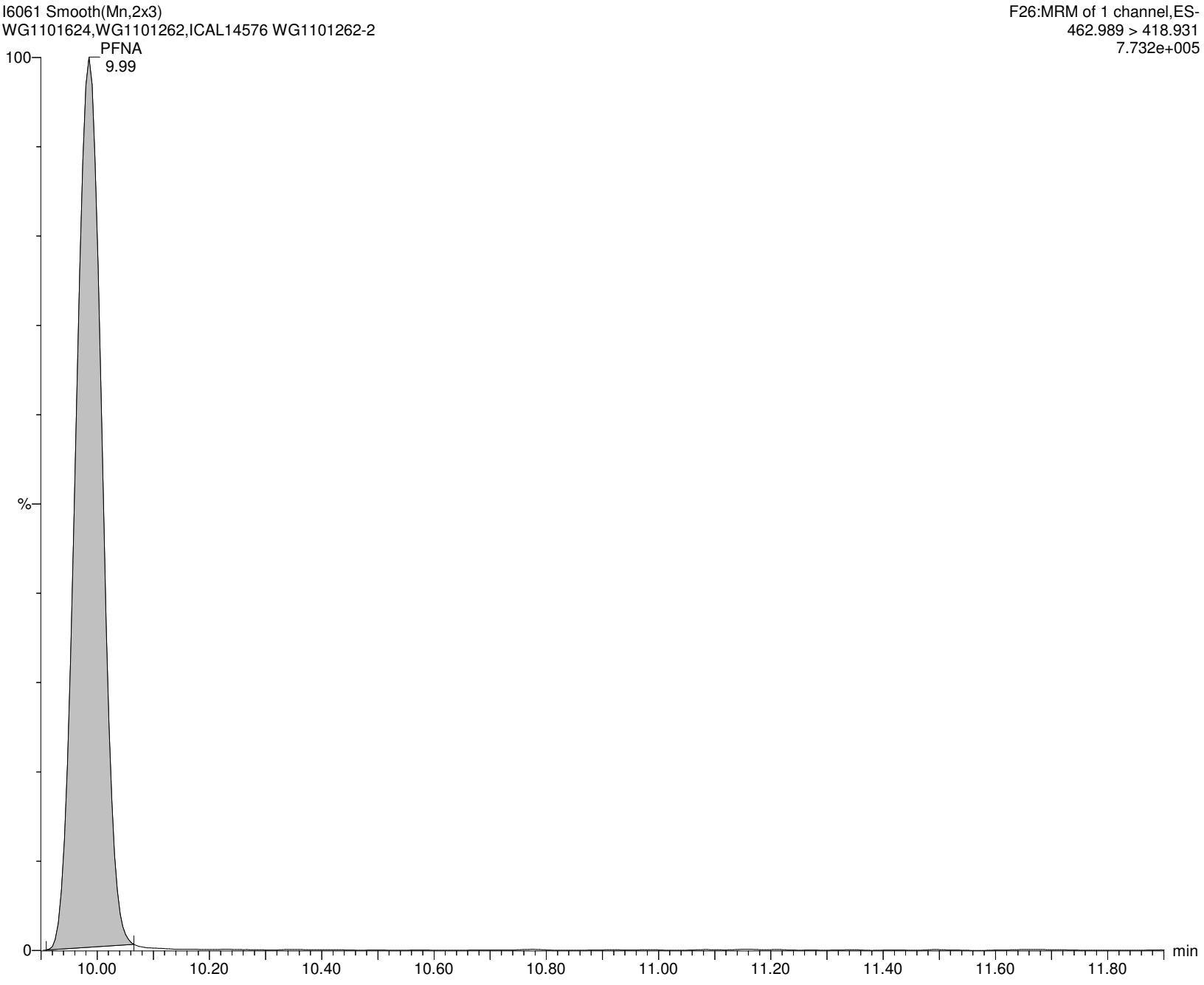

all concentration units in (ng/mL)

Alpha Analytical Inc.
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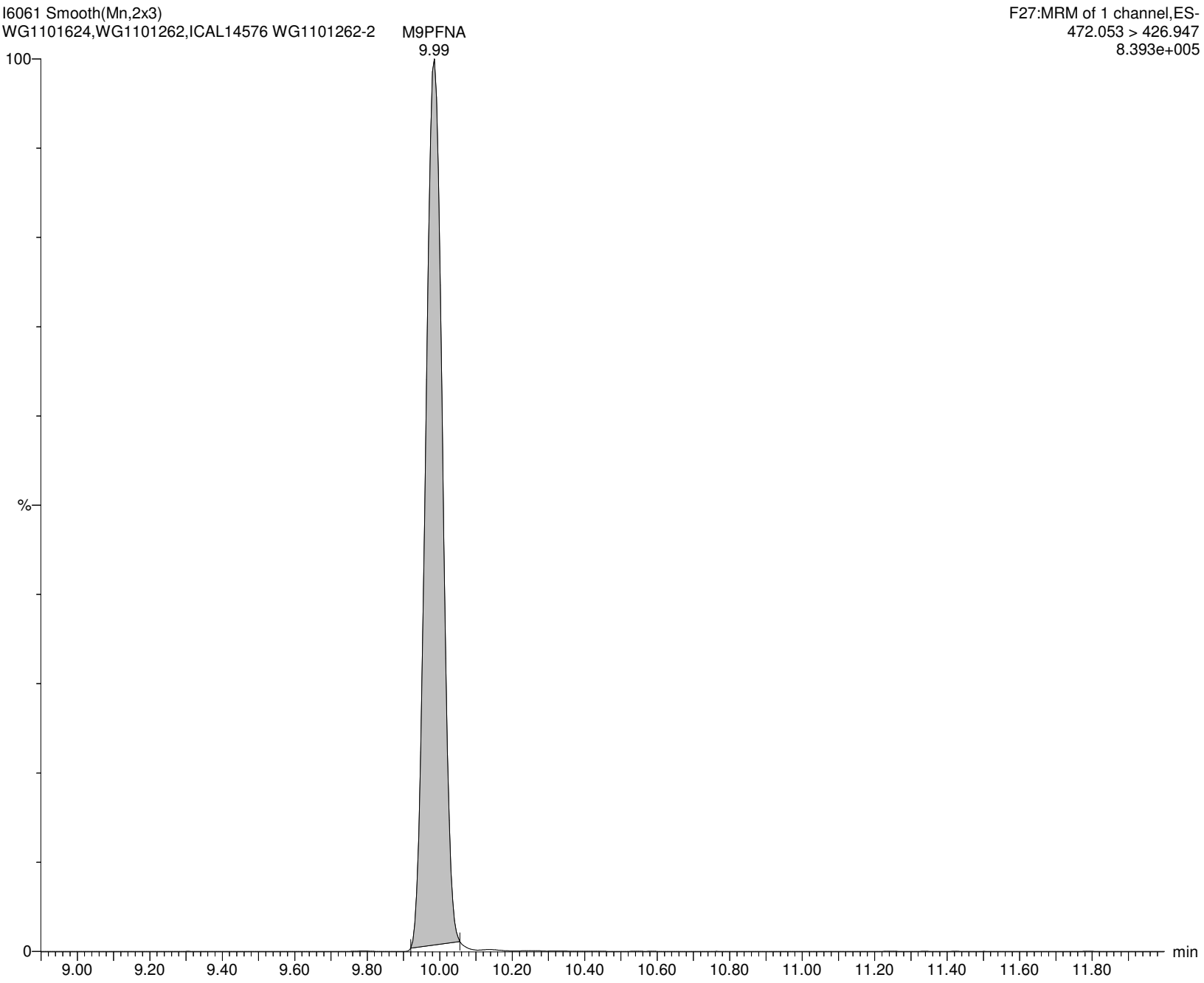

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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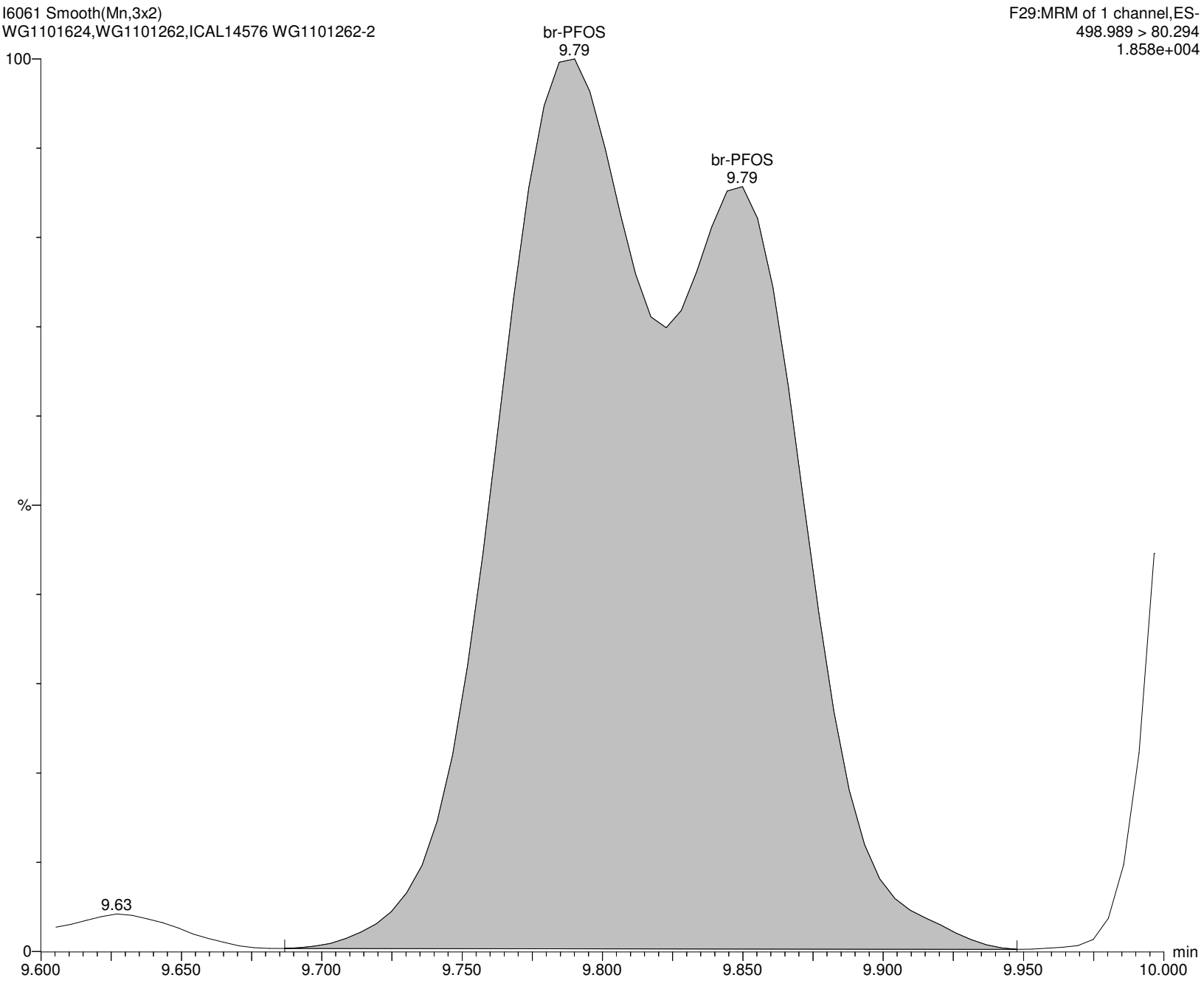

all concentration units in (ng/mL)

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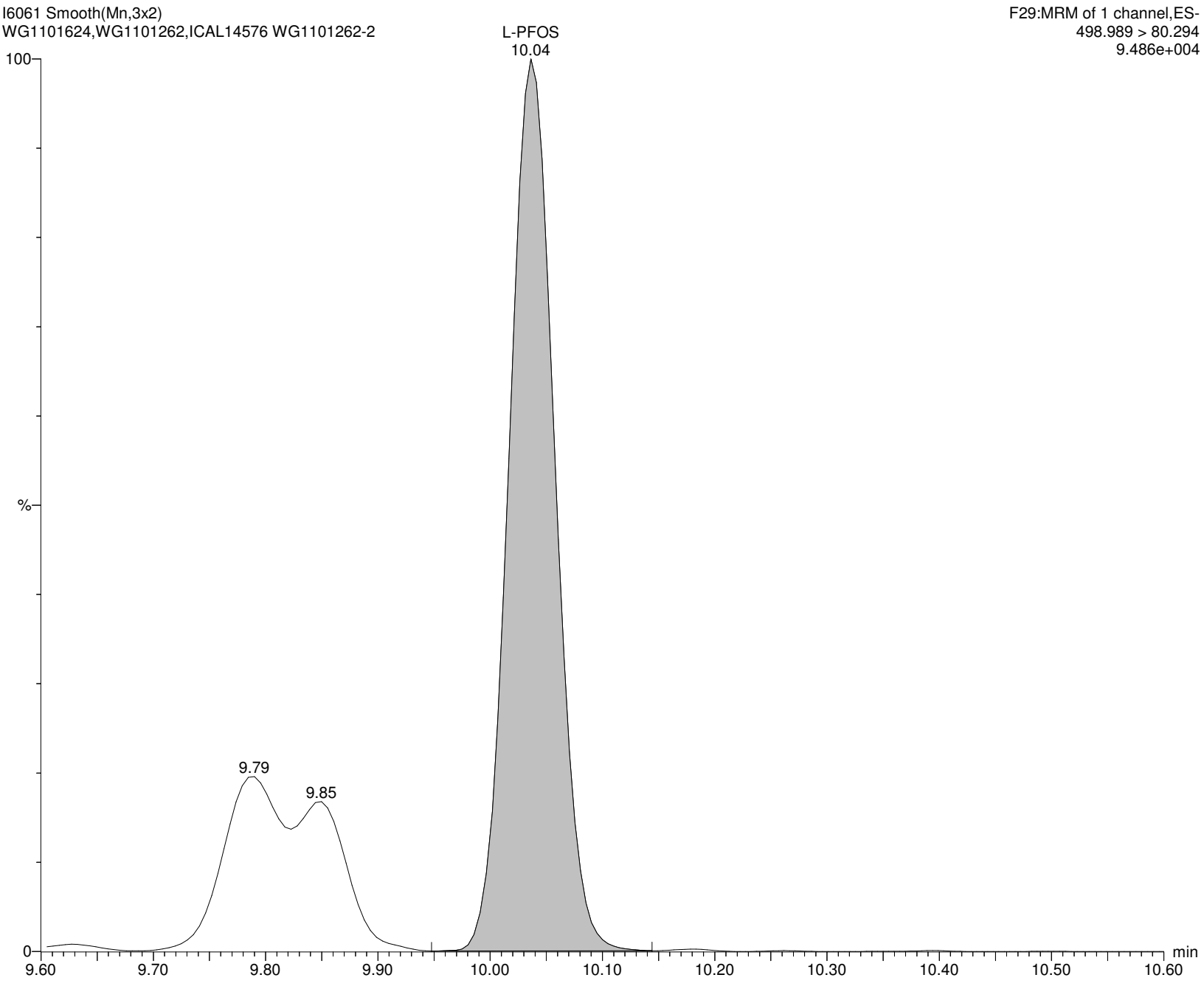
L-PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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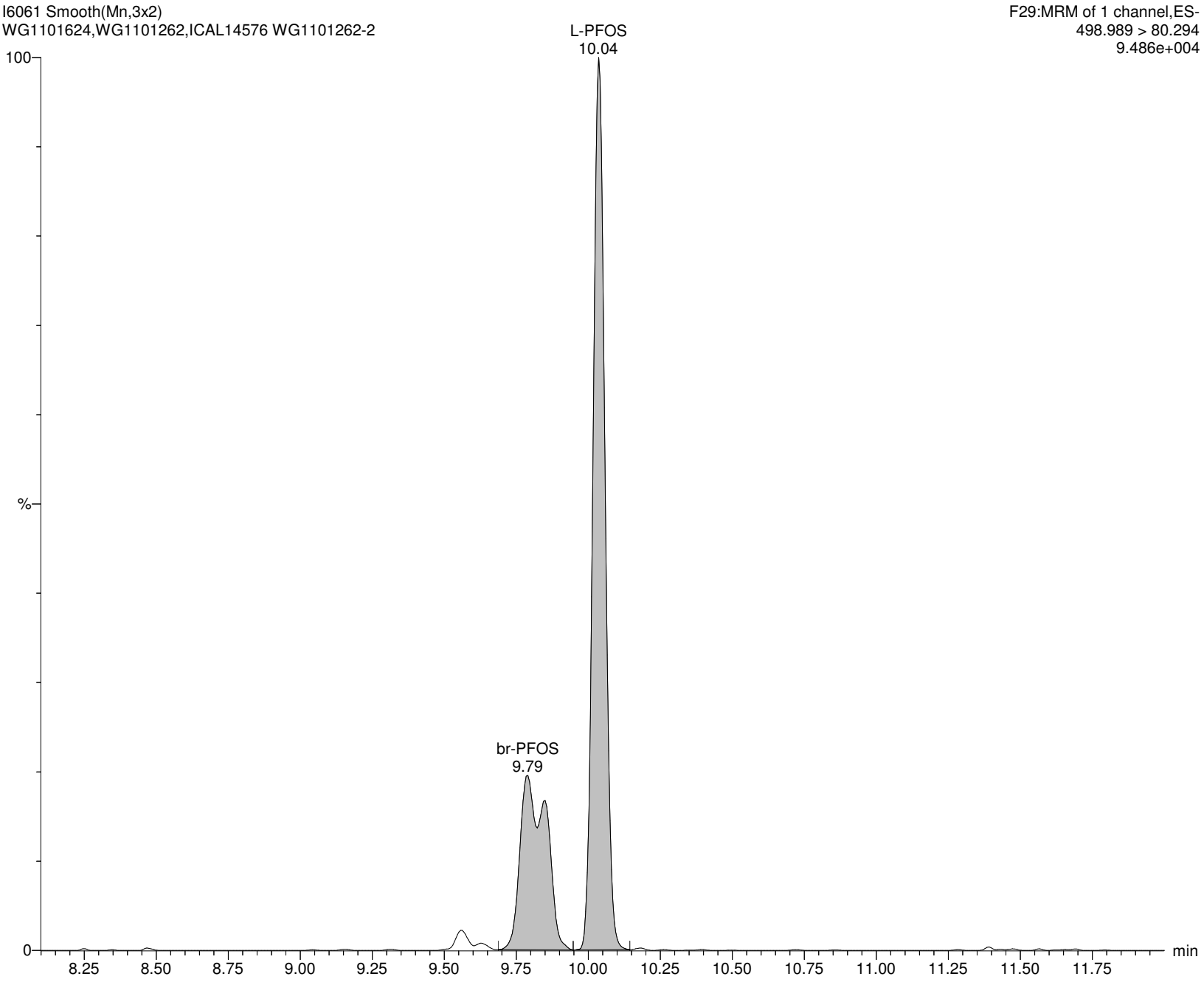

all concentration units in (ng/mL)

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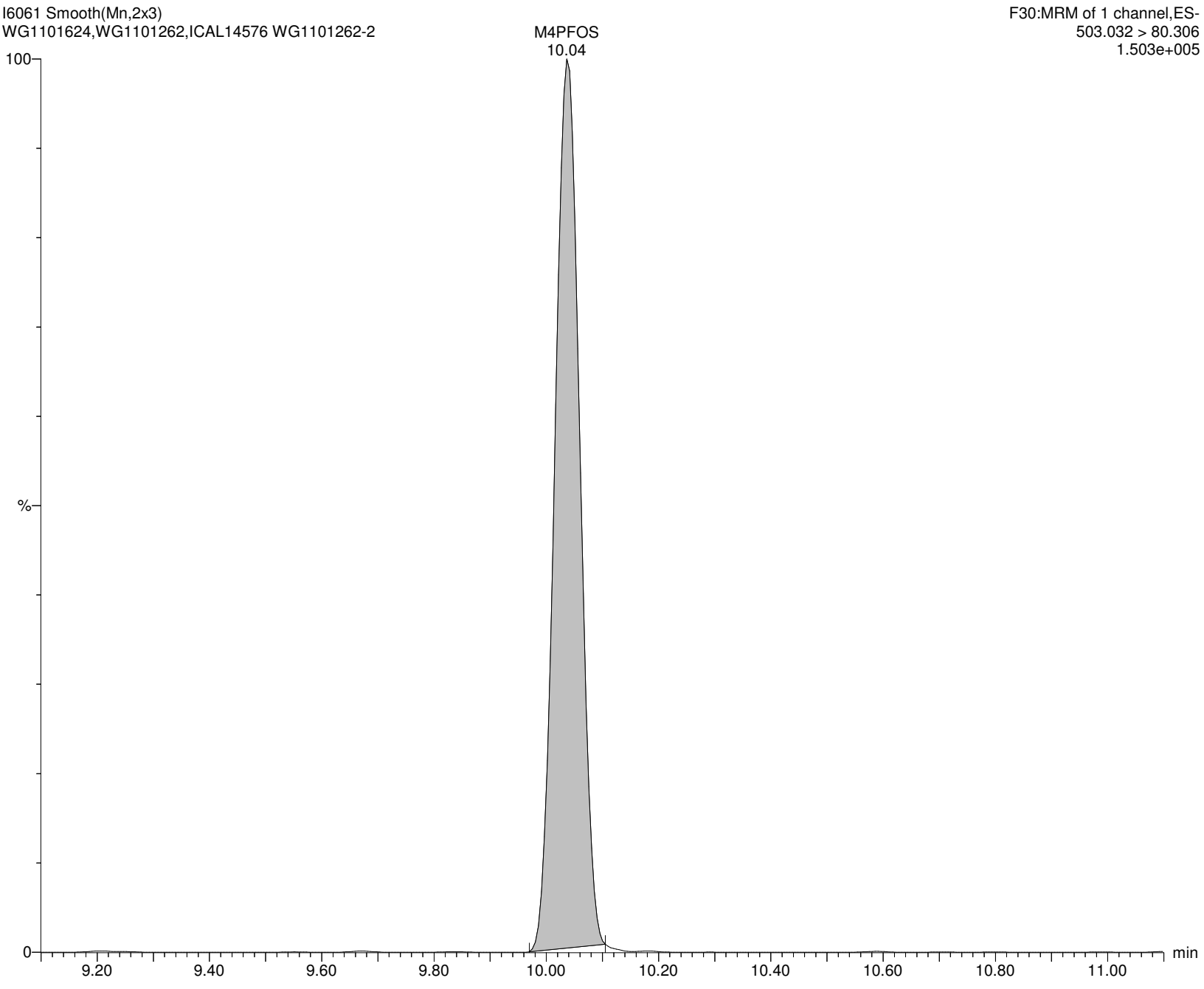

all concentration units in (ng/mL)

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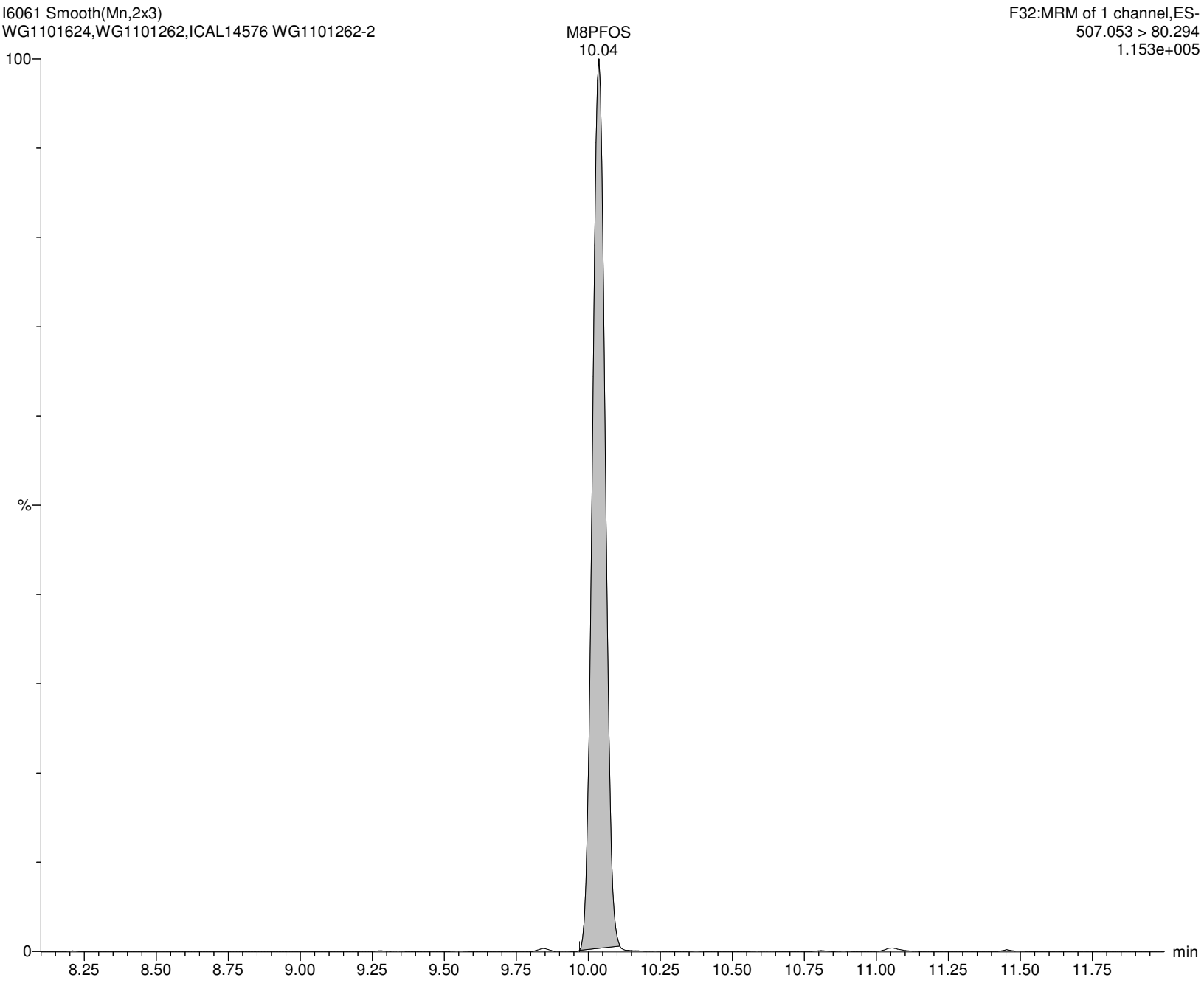

all concentration units in (ng/mL)

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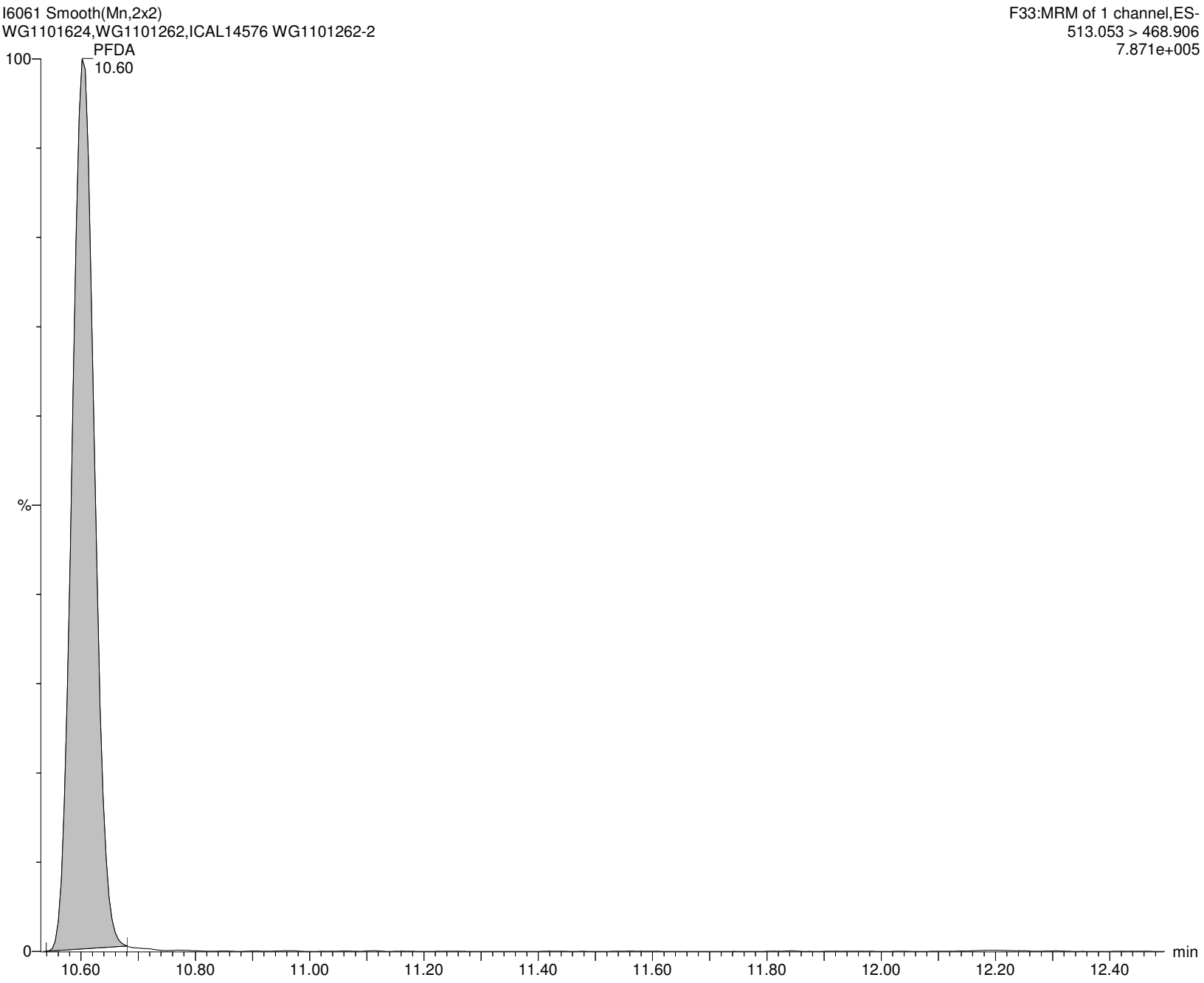

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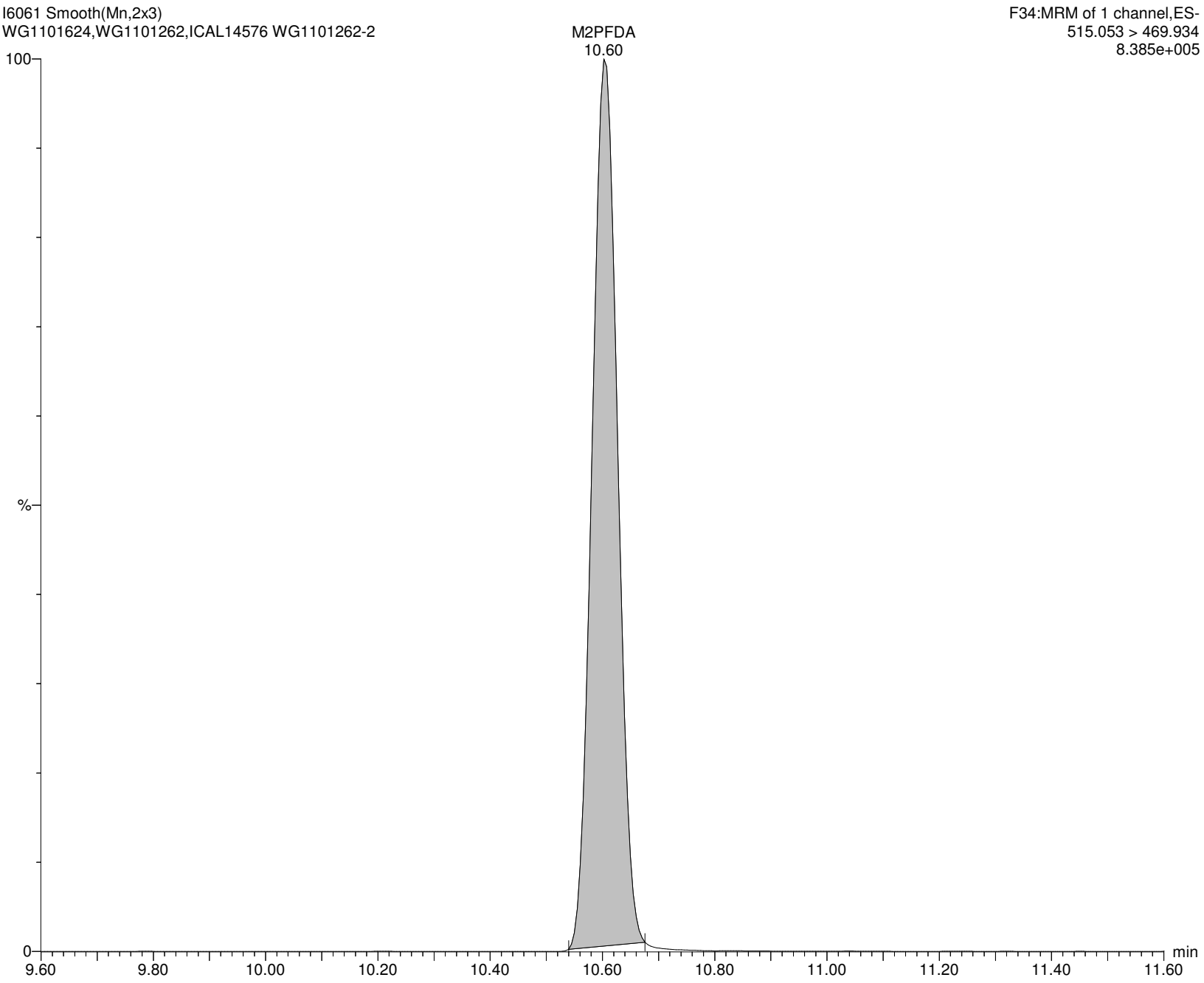

all concentration units in (ng/mL)

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Name: I6061
ID: WG1101262-2
Date: 29-Mar-2018
Time: 16:38:44
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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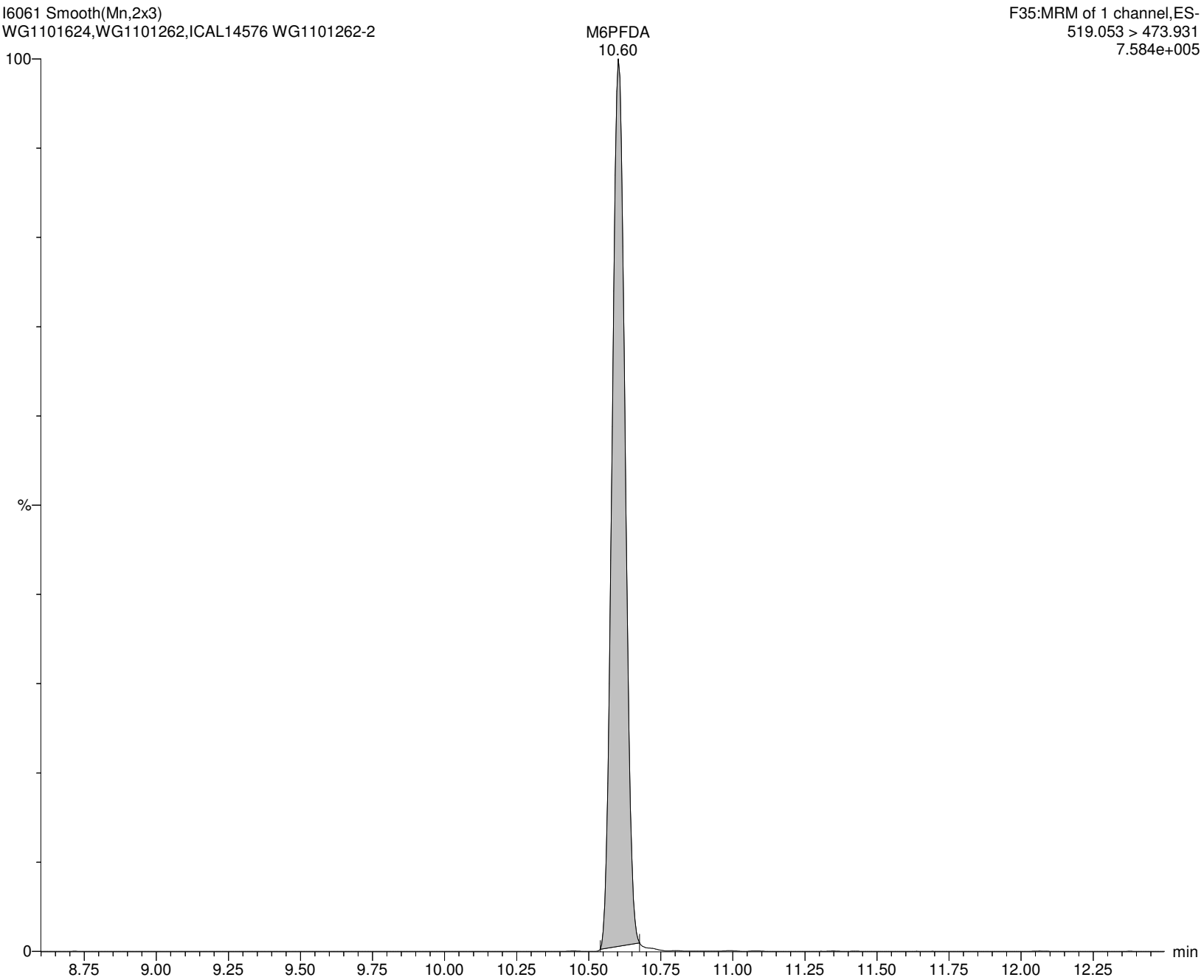
M6PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:03 Eastern Daylight Time

Name: I6061
ID: WG1101262-2
Date: 29-Mar-2018
Time: 16:38:44
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,3
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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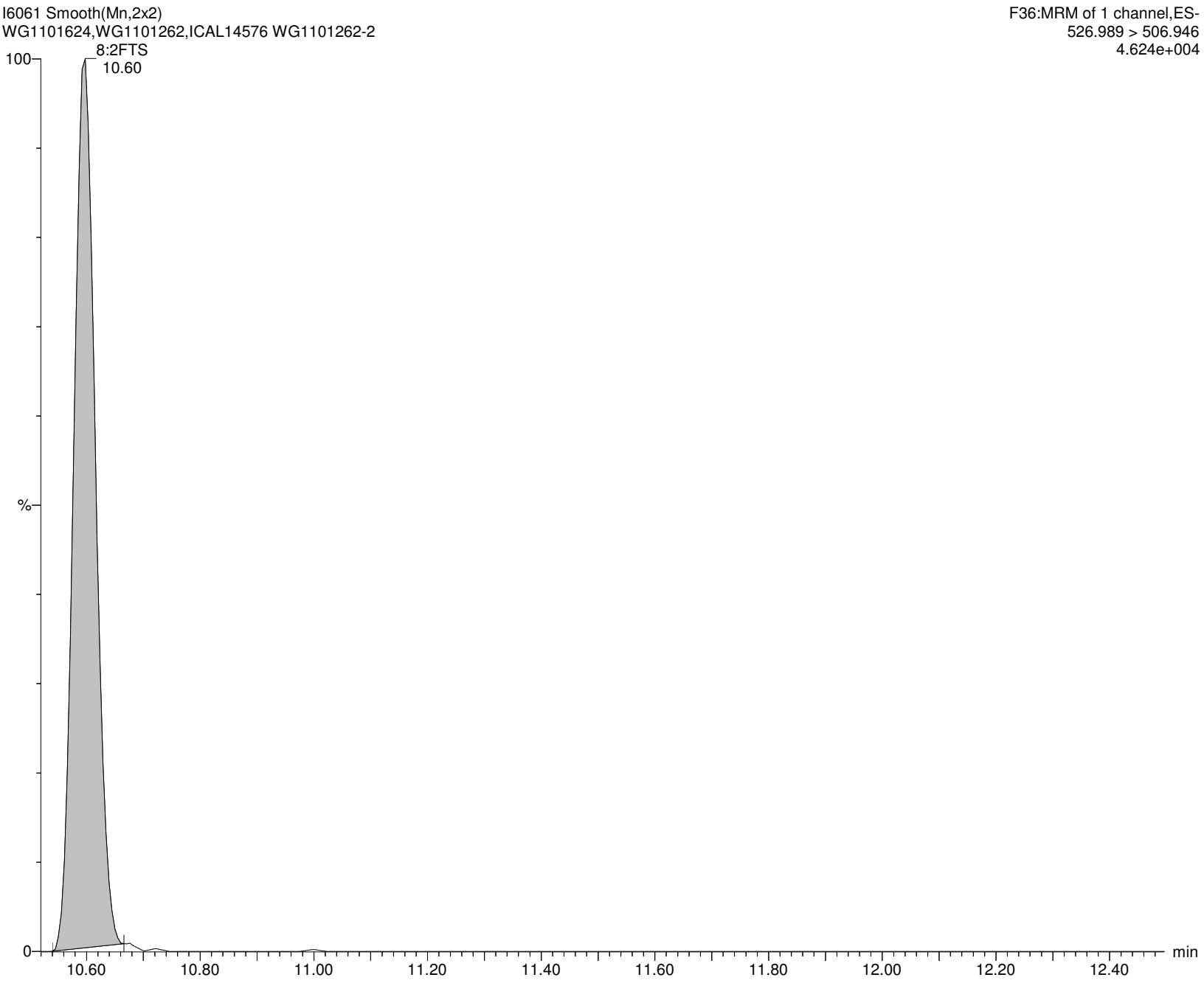
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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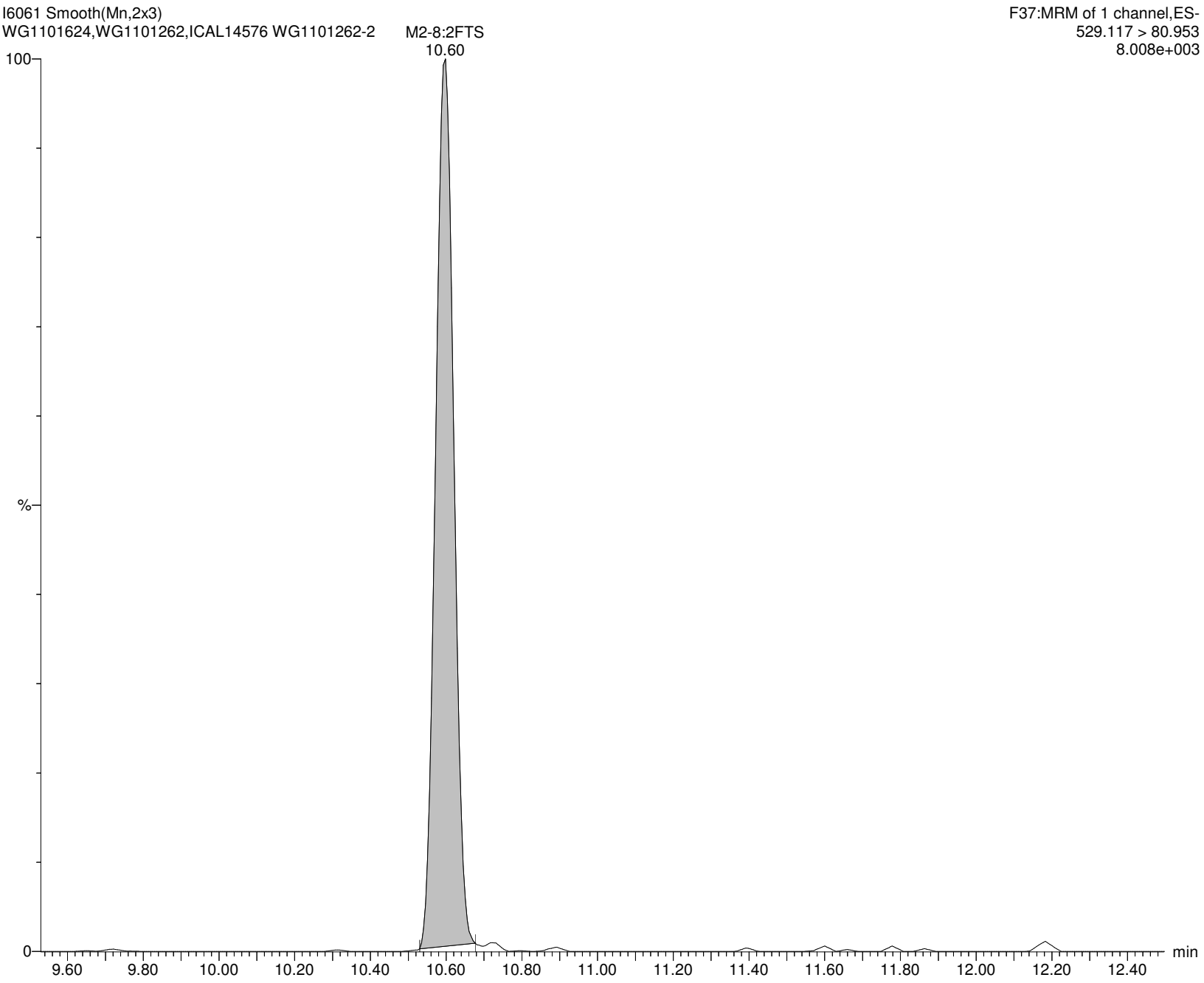
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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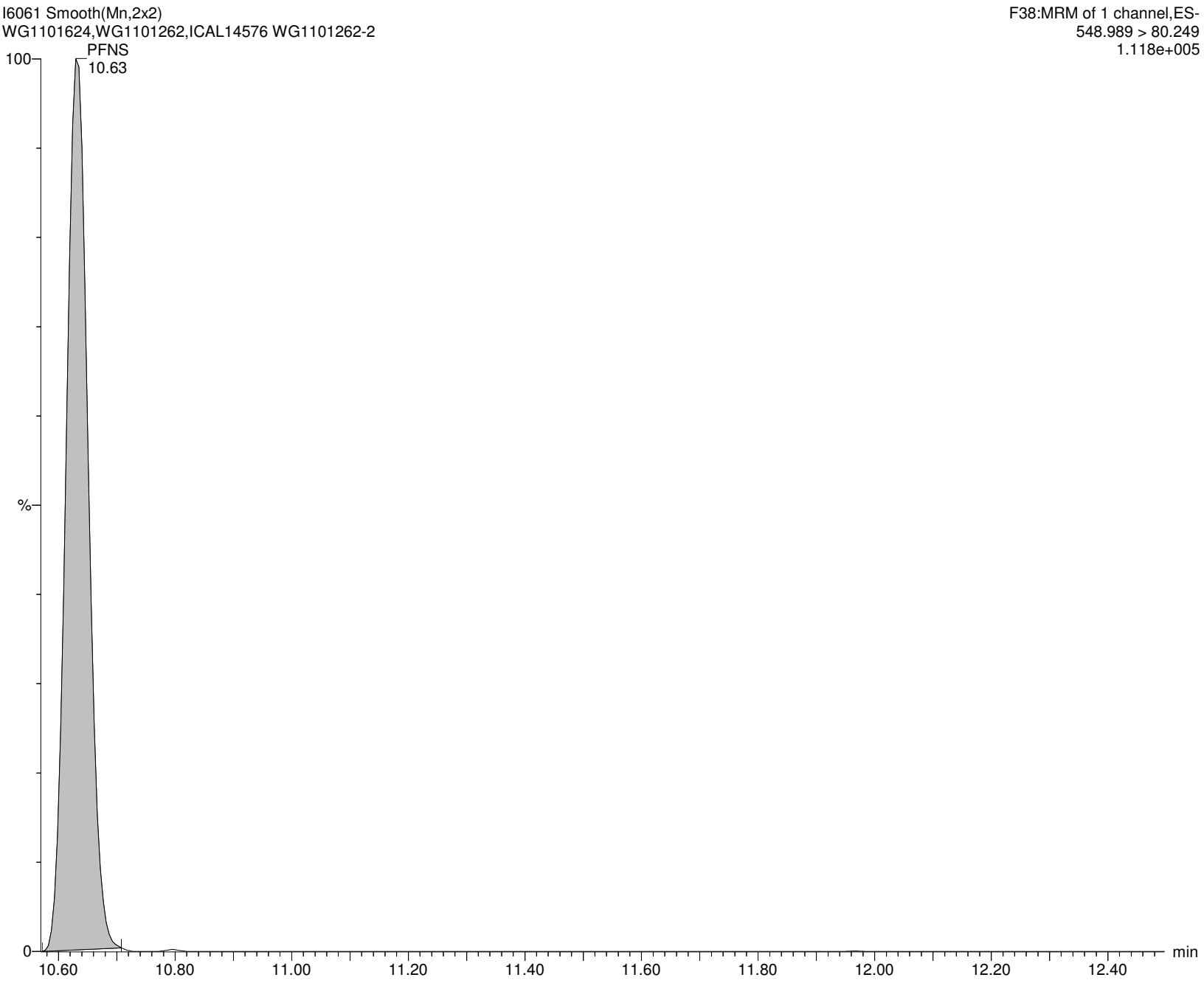

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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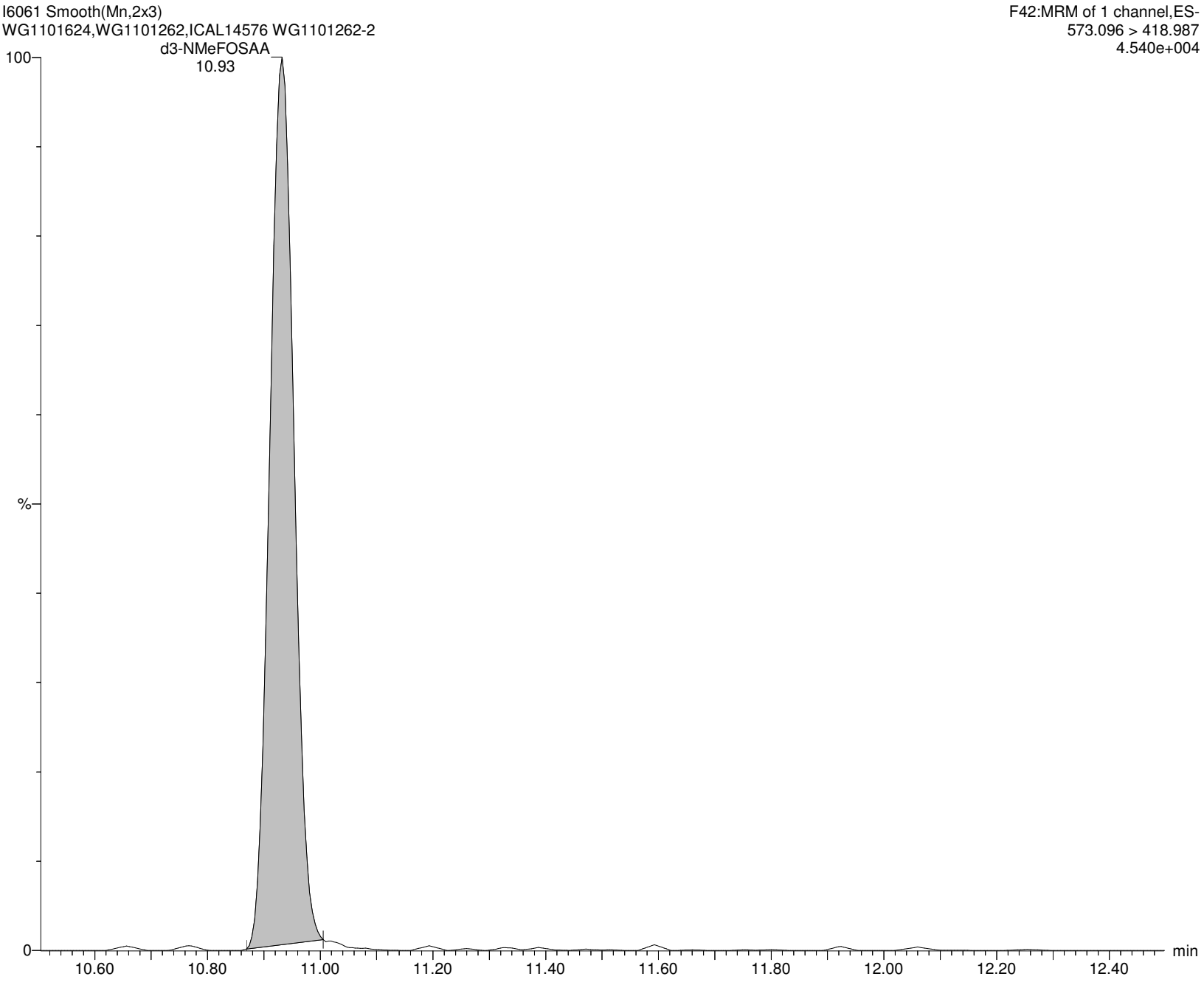
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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Time: 16:38:44
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Vial: 2:B,3
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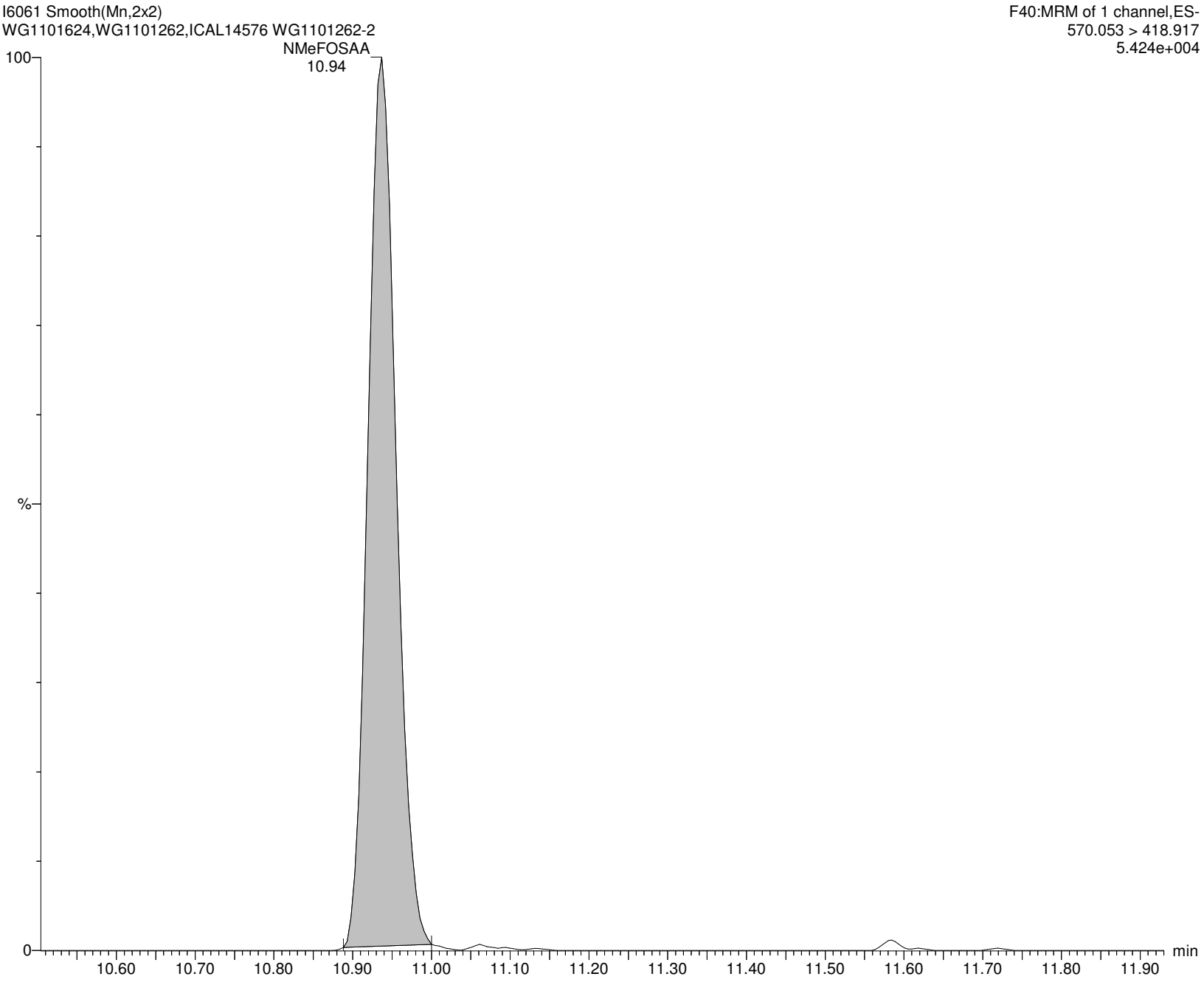

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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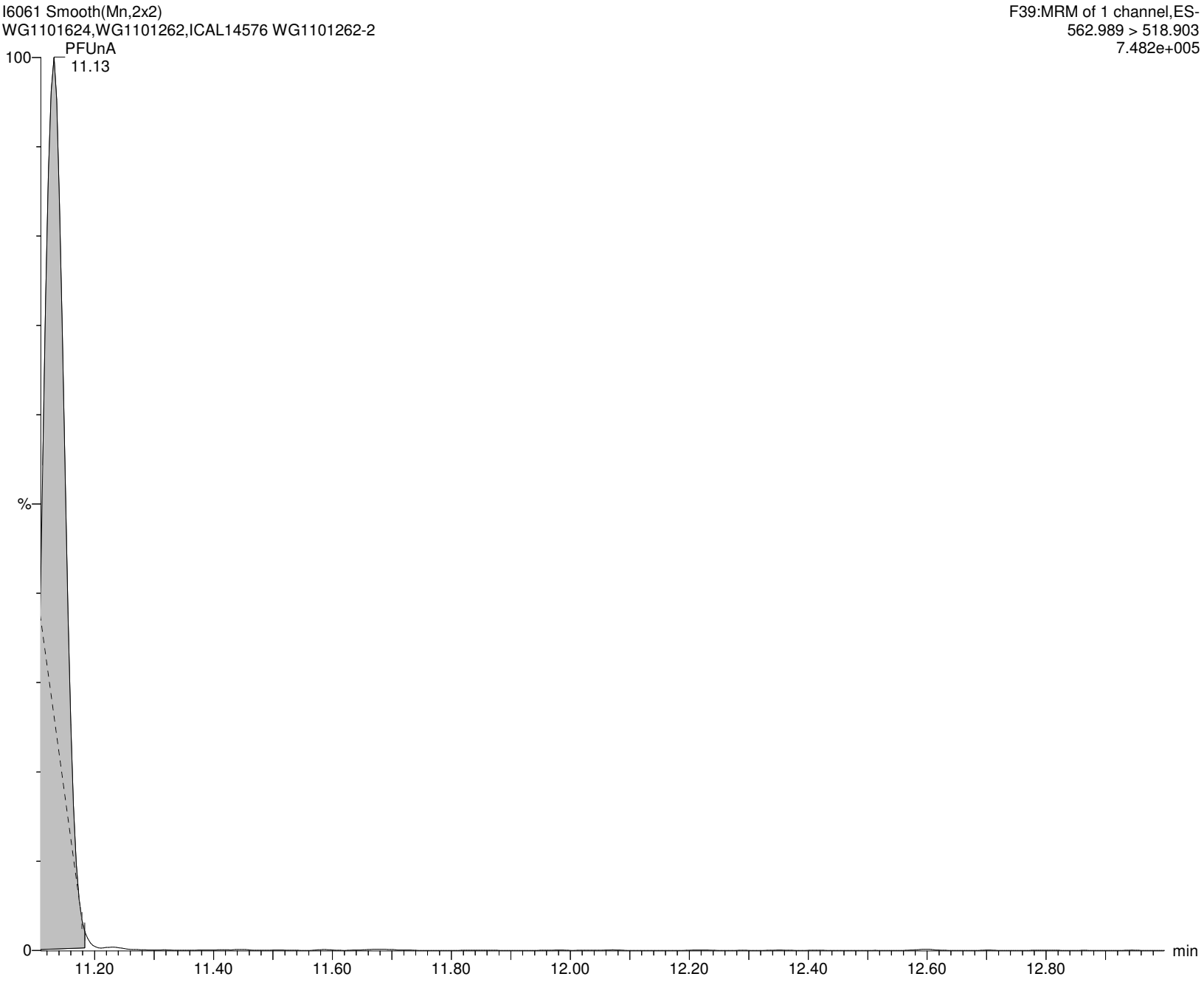

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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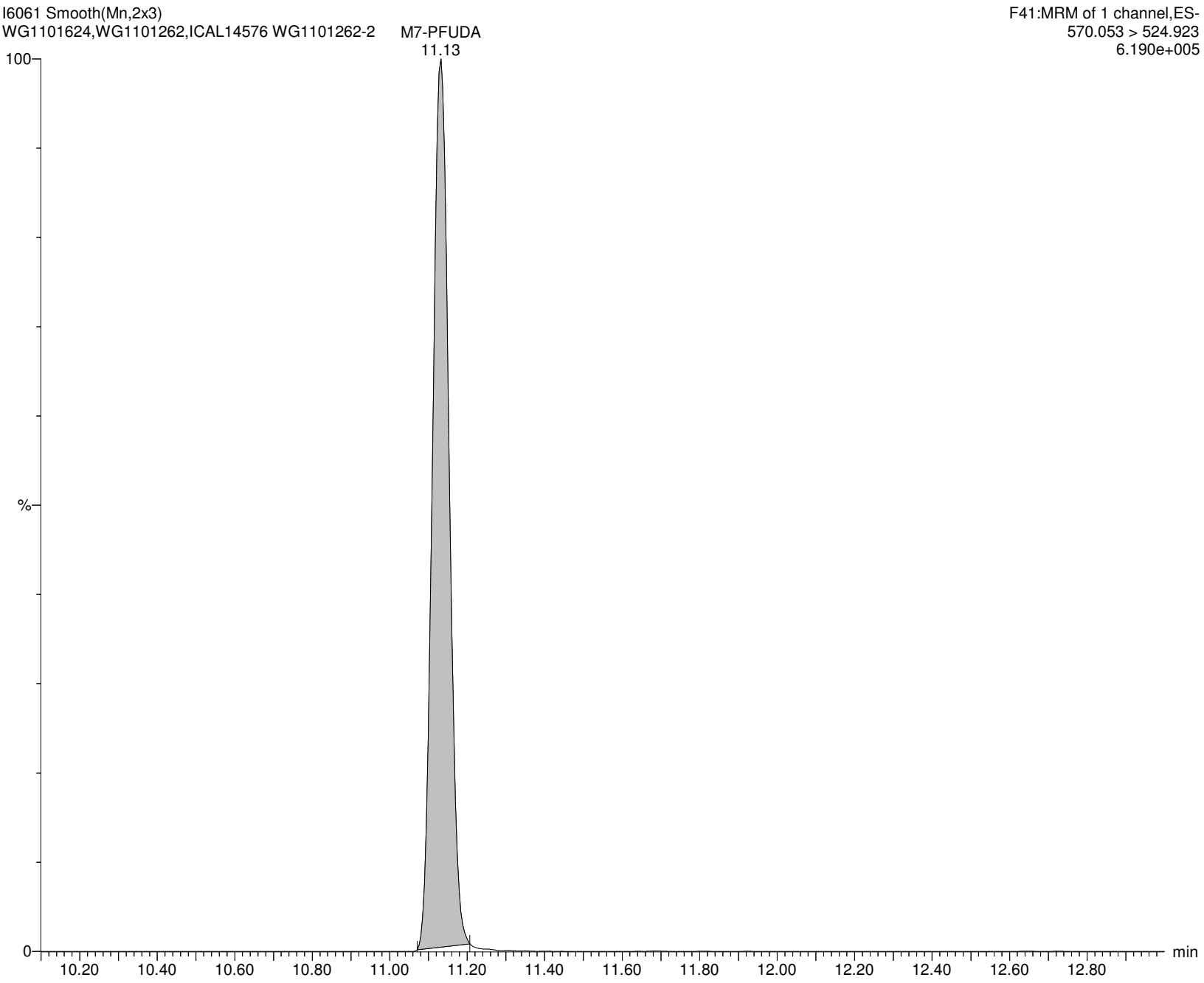
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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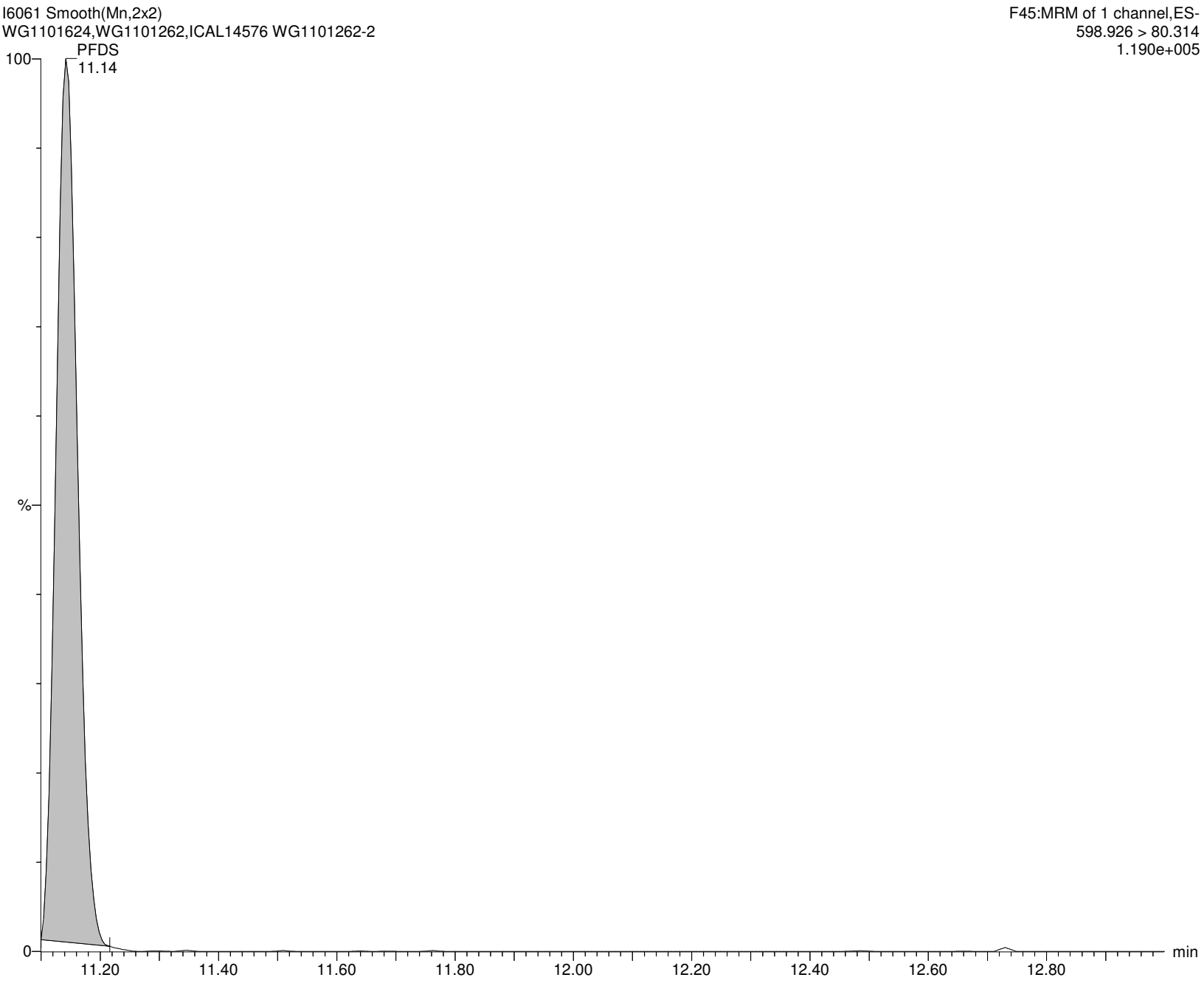

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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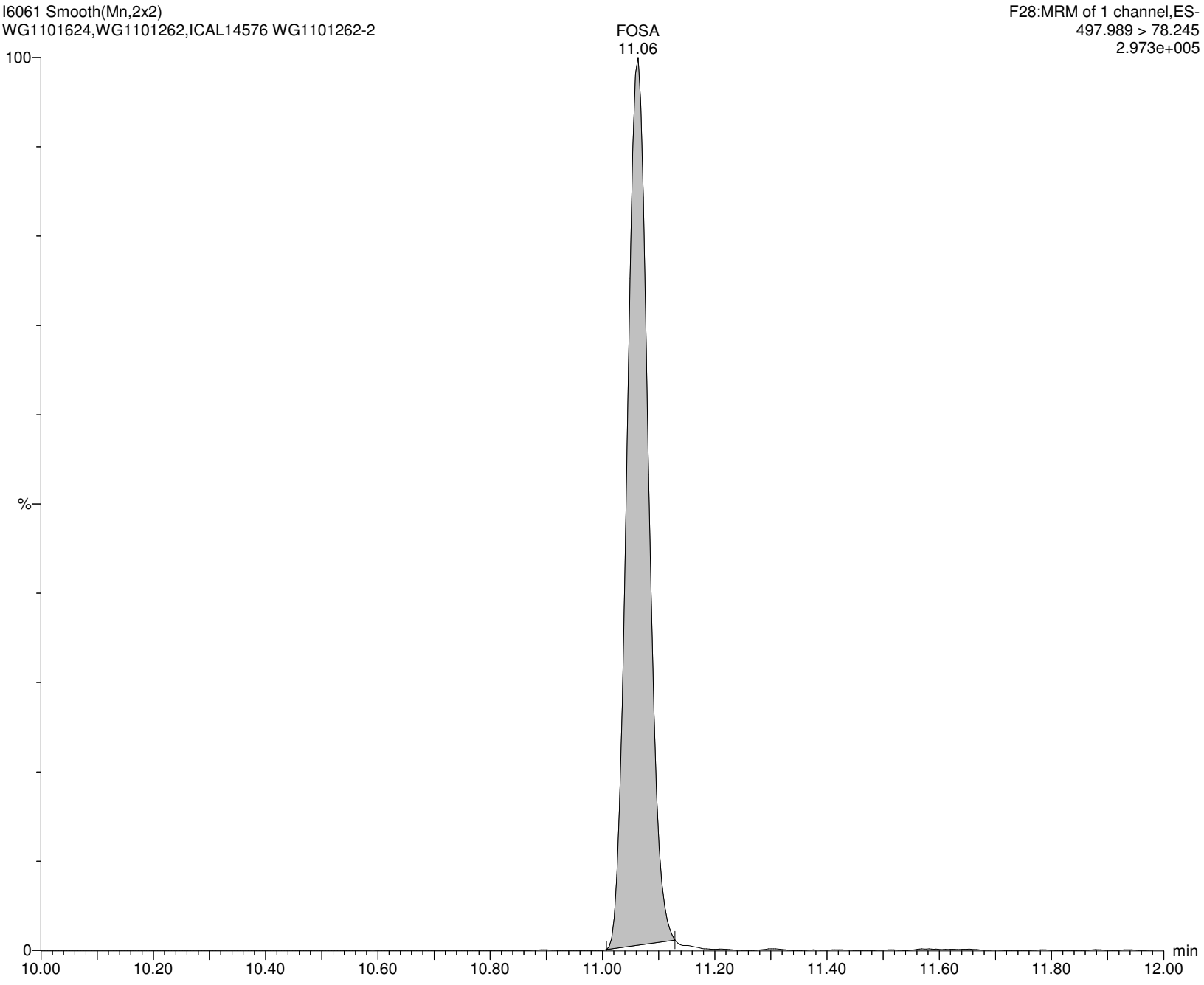

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 29-Mar-2018
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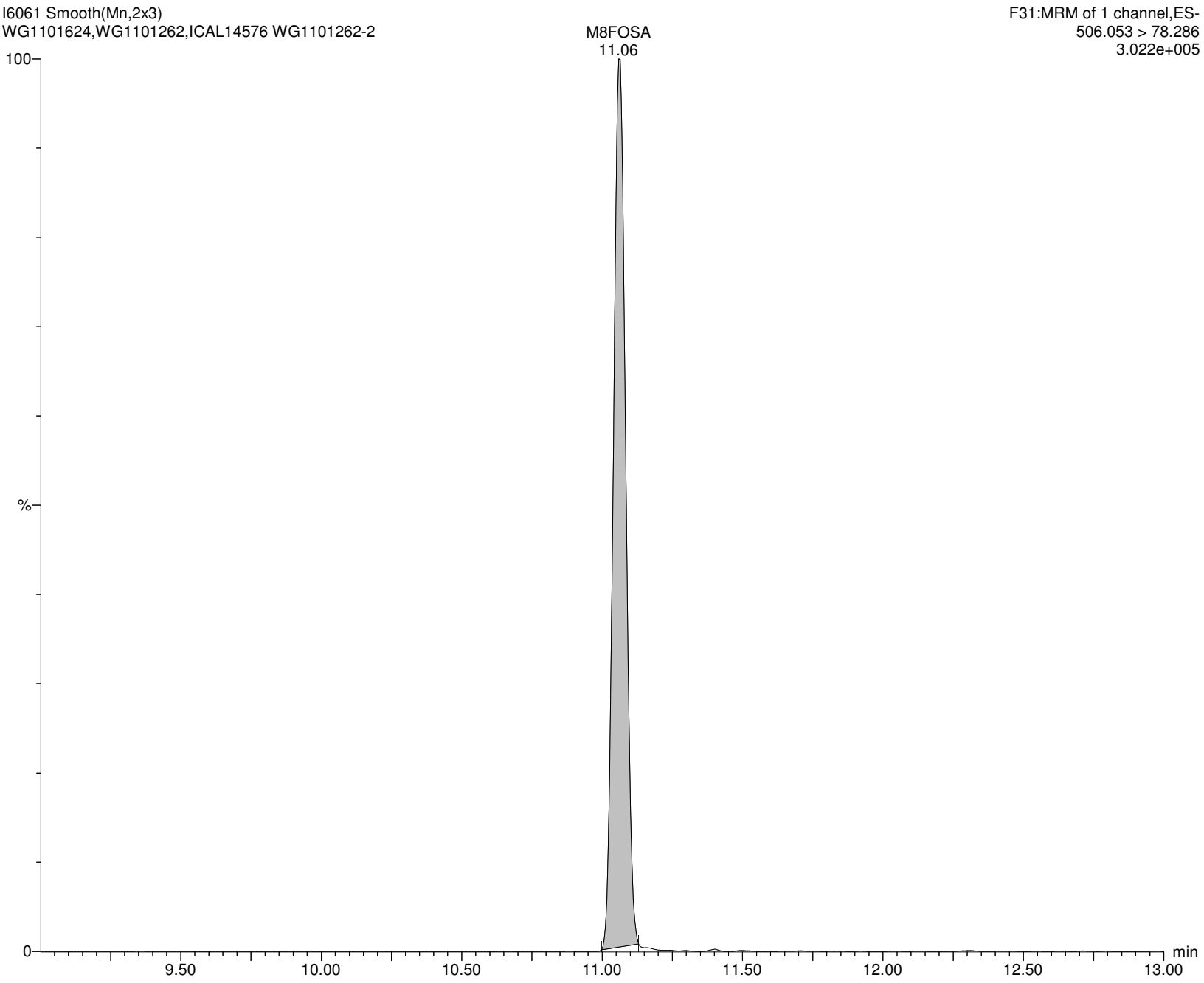

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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Date: 29-Mar-2018
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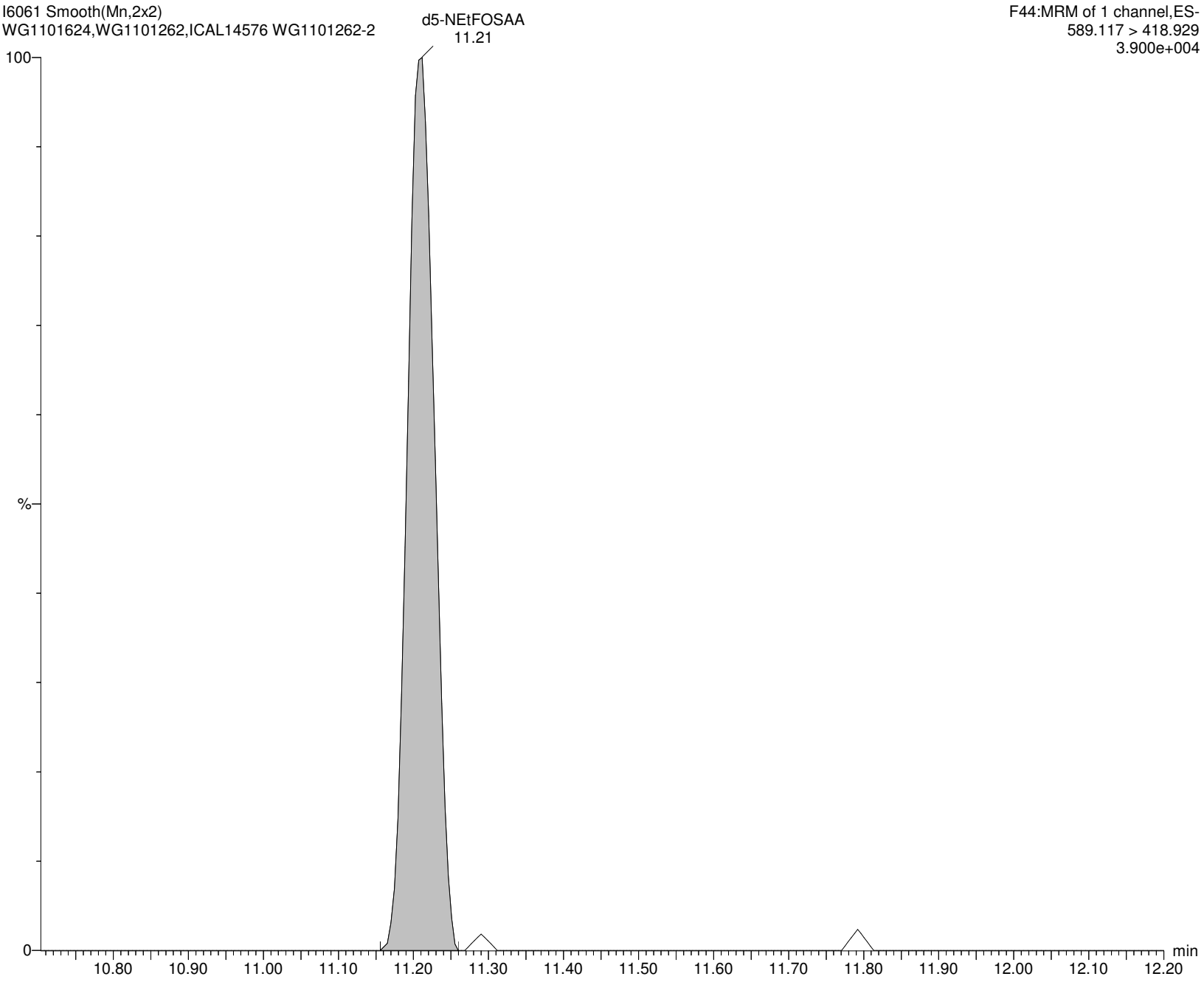
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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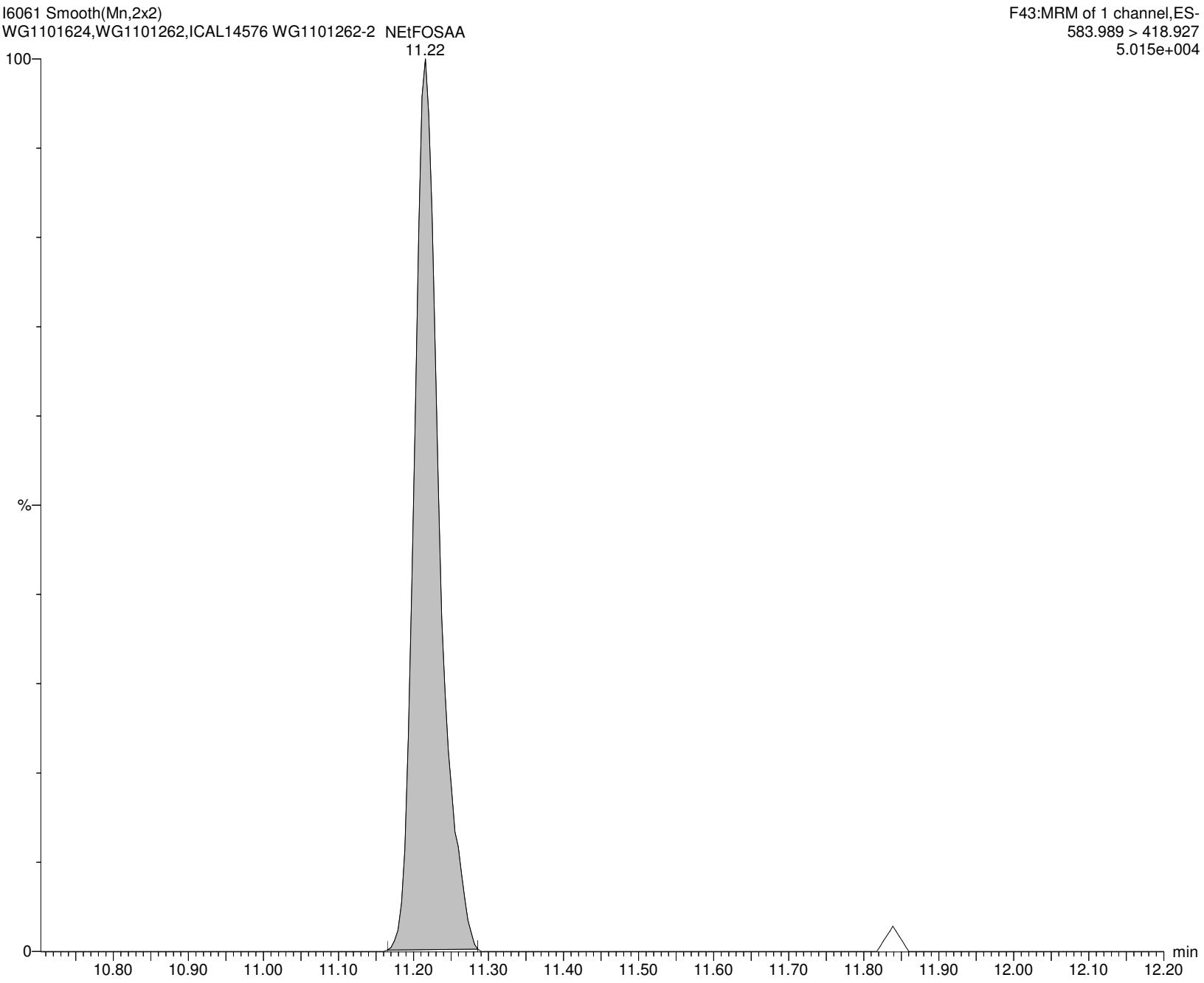

all concentration units in (ng/mL)

Alpha Analytical Inc.
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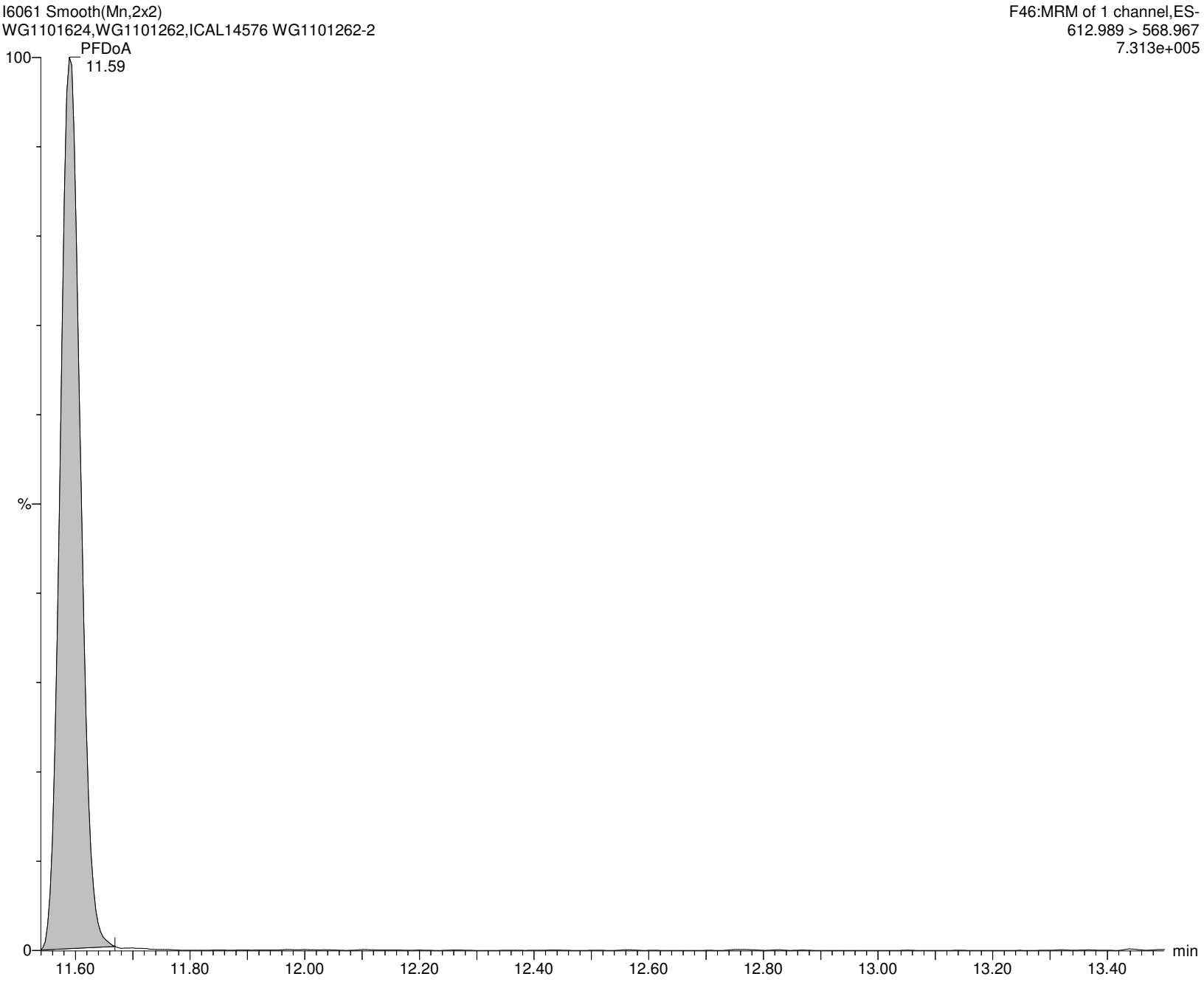

all concentration units in (ng/mL)

Alpha Analytical Inc.
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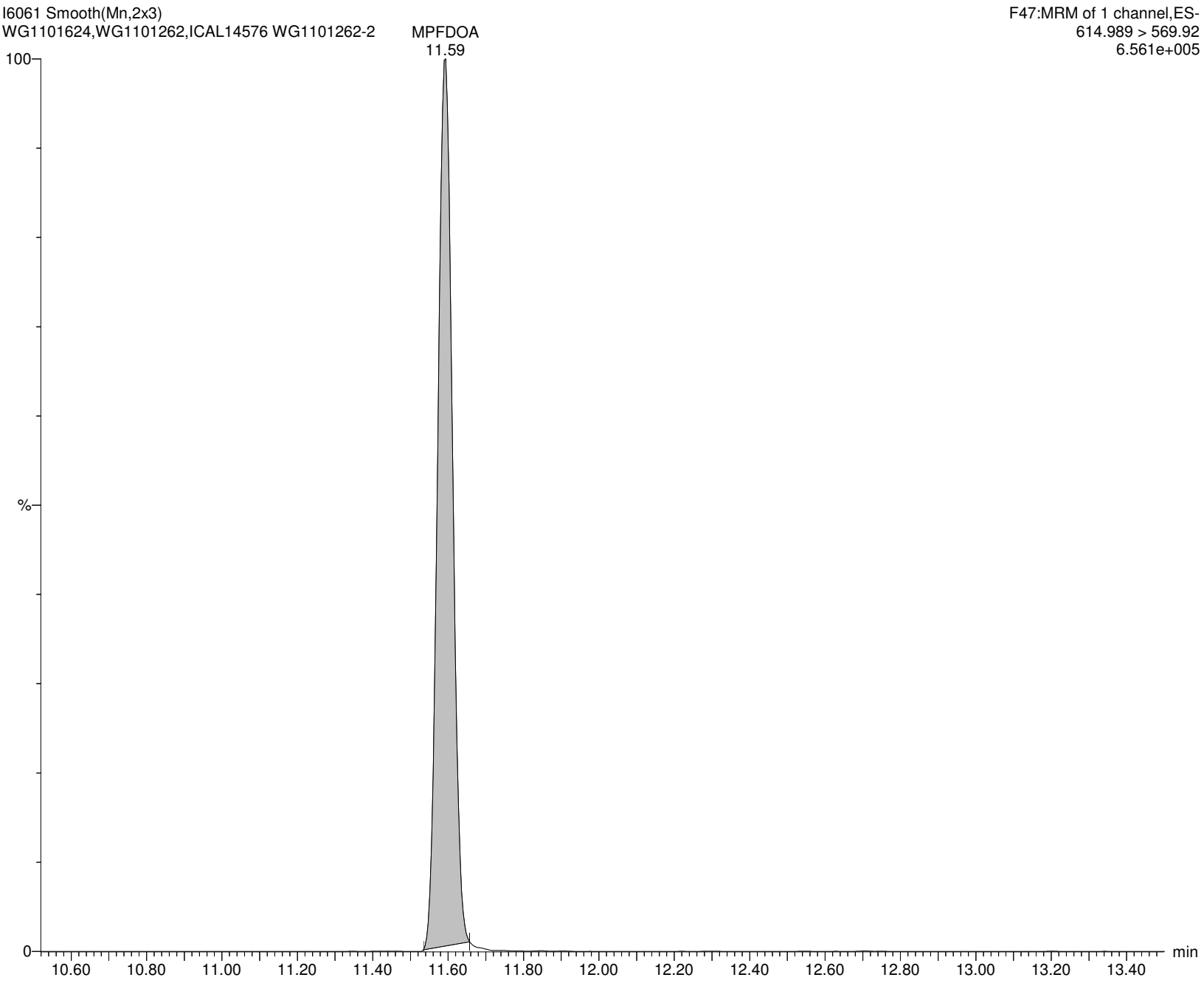

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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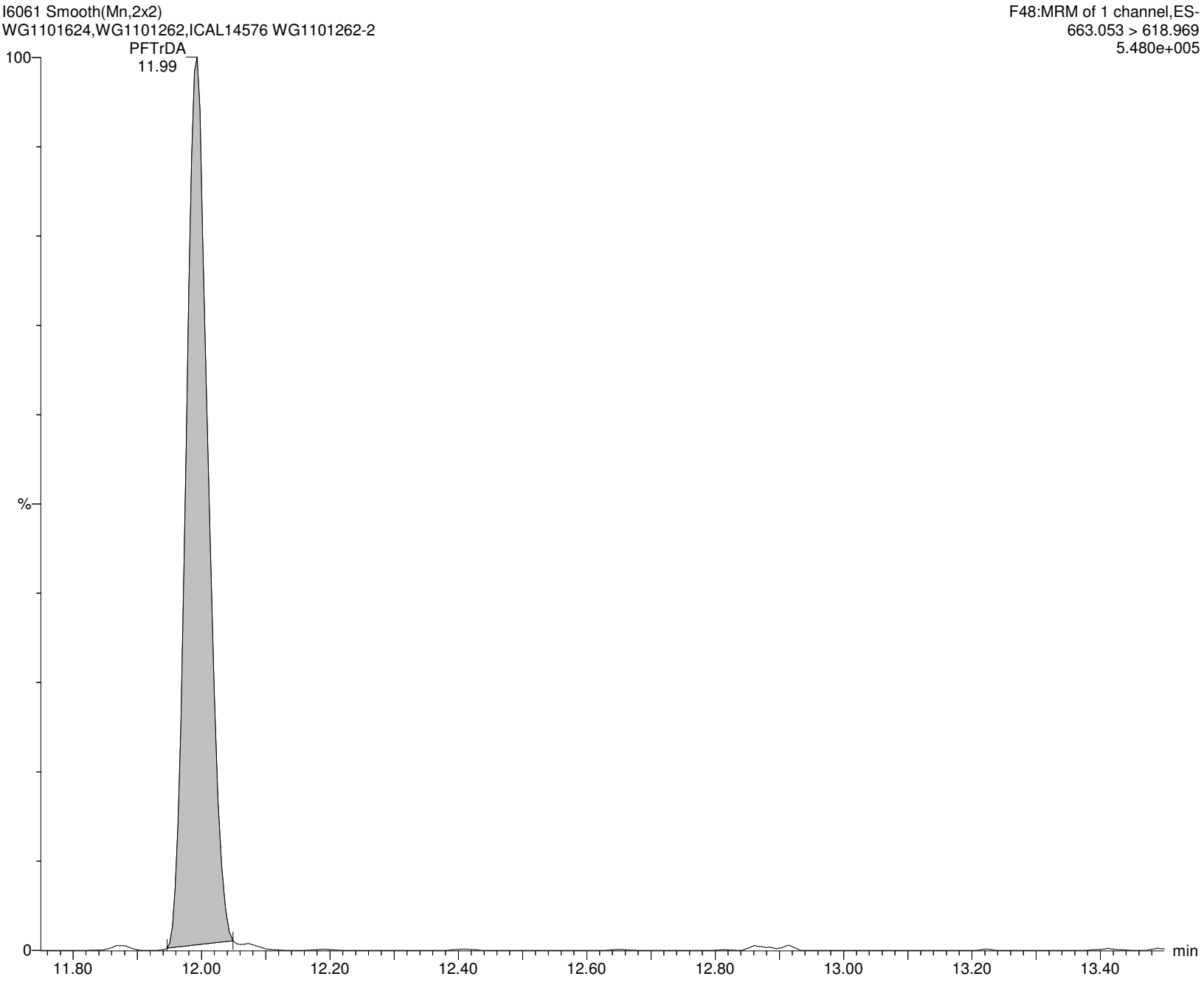

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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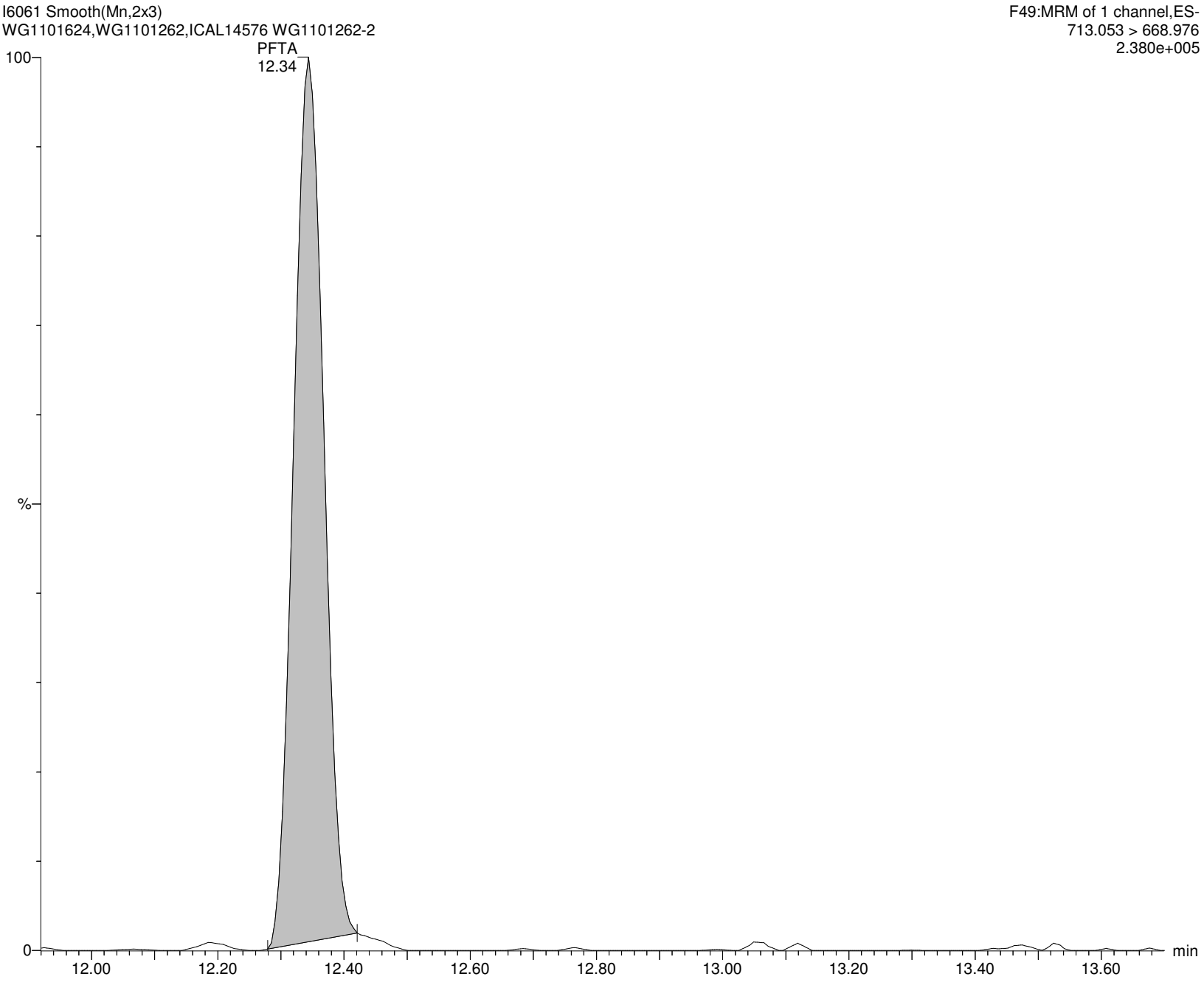

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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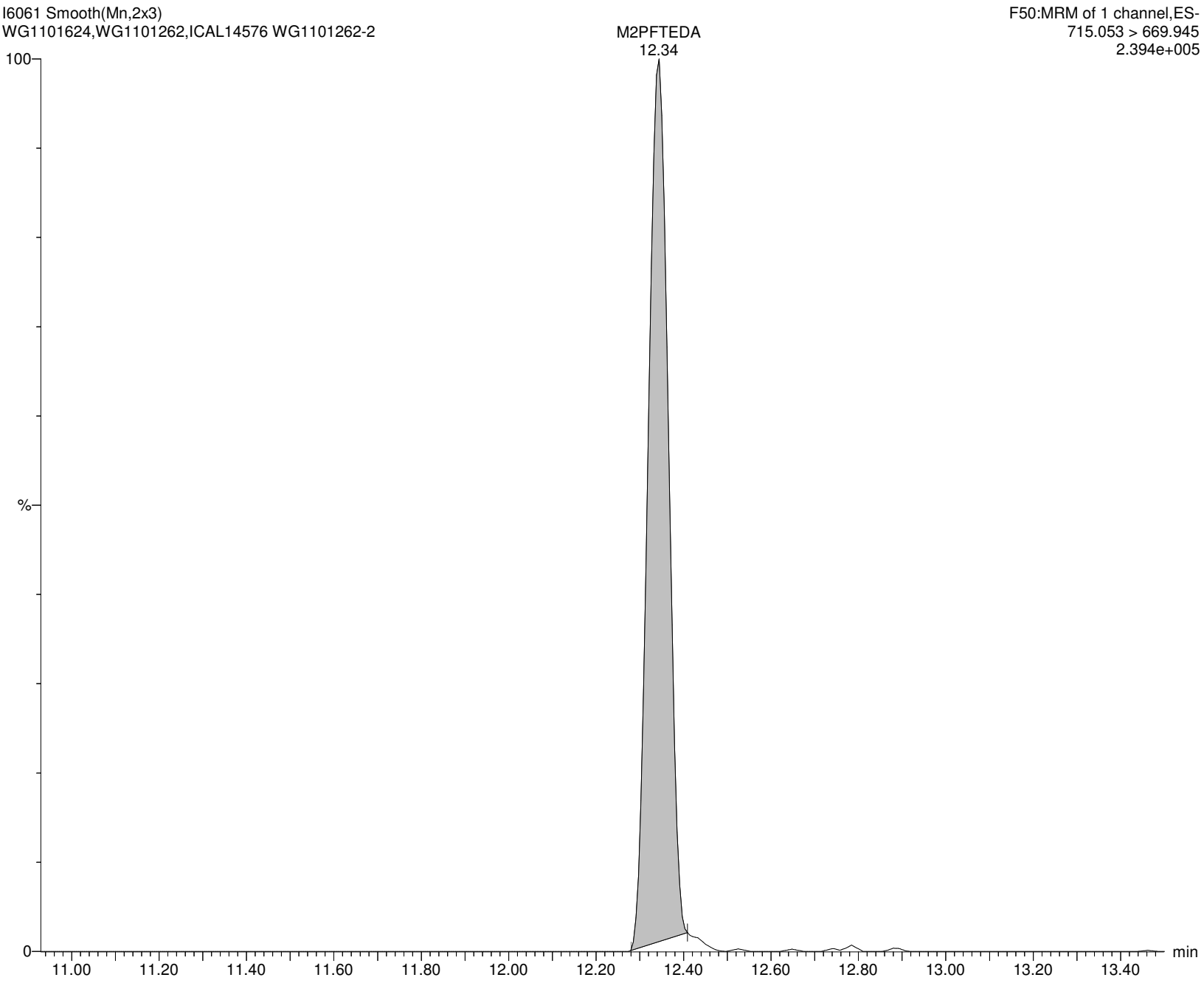
M2PFTEDA



all concentration units in (ng/mL)

LCS Duplicate Raw Data

Alpha Analytical Inc.
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Printed: Thursday, March 29, 2018 17:58:04 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
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Date: 29-Mar-2018
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Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	36005		11.151		na	111.5
2	M3PFBA	INT STD	2.24	215.926 > 172.122	43937		8.804		na	88.0
3	MPFBA	INT STD	2.23	216.926 > 172.137	43864		8.933		na	89.3
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	38938		11.305		na	113.1
5	M5PFPEA	INT STD	5.13	TIC	43806		8.656		na	86.6
6	PFBS	375-73-5	5.81	298.989 > 80.295	9129		11.388		na	128.7
7	M3PFBS	INT STD	5.81	301.989 > 80.254	8152		6.613		na	66.1
8	4:2FTS	757124-72-4	6.97	326.926 > 306.957	3168		11.654		na	124.6
9	M2-4:2FTS	INT STD	6.96	328.989 > 80.973	815		5.125		na	51.3
10	PFHxA	307-24-4	7.04	312.989 > 269.028	50479		11.937		na	119.4
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	46778		6.999		na	70.0
12	PFPeS	2706-91-4	7.37	348.926 > 80.251	8011		10.690		na	113.7
13	PFHpA	375-85-9	8.31	362.926 > 319.014	56870		11.453		na	114.5
14	M4PFHpA	INT STD	8.31	366.926 > 321.979	54013		7.116		na	71.2
15	br-PFHxS	355-46-4	8.24	398.926 > 80.295	1228		1.640		na	86.3
16	L-PFHxS	355-46-4	8.47	398.926 > 80.295	7878		10.766		na	132.9
17	PFHxS	355-46-4		398.926 > 80.295	9106		12.406		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	7753		6.838		na	68.4
19	br-PFOA	335-67-1	9.03	412.989 > 368.9	479		0.093		na	0.9
20	L-PFOA	335-67-1	9.25	412.989 > 368.9	55528		10.729		na	107.3
21	M2PFOA	INT STD	9.25	415.032 > 369.968	69436		11.220		na	112.2
22	PFOA	335-67-1		412.989 > 368.9	56007		10.821		na	
23	M8PFOA	INT STD	9.25	420.989 > 375.979	49932		7.404		na	74.0
24	6:2FTS	27619-97-2	9.21	426.989 > 406.921	3198		12.234		na	128.8
25	M2-6:2FTS	INT STD	9.21	428.989 > 408.917	2746		4.575		na	45.7
26	PFHpS	375-92-8	9.34	448.926 > 80.257	4646		10.724		na	112.9
27	PFNA	375-95-1	9.99	462.989 > 418.931	43786		11.853		na	118.5
28	M9PFNA	INT STD	9.99	472.053 > 426.947	44326		6.994		na	69.9
29	br-PFOS	1763-23-1	9.79	498.989 > 80.294	2196		2.532		na	126.6
30	L-PFOS	1763-23-1	10.04	498.989 > 80.294	4622		7.538		na	95.4
31	PFOS	1763-23-1		498.989 > 80.294	6818		10.070		na	
32	M4PFOS	INT STD	10.04	503.032 > 80.306	7510		12.386		na	123.9
33	M8PFOS	INT STD	10.04	507.053 > 80.294	6262		6.829		na	68.3
34	PFDA	335-76-2	10.60	513.053 > 468.906	39925		11.964		na	119.6
35	M2PFDA	INT STD	10.60	515.053 > 469.934	44292		10.565		na	105.6
36	M6PFDA	INT STD	10.60	519.053 > 473.931	39253		7.339		na	73.4
37	8:2FTS	39108-34-4	10.60	526.989 > 506.946	2146		12.835		na	133.7
38	M2-8:2FTS	INT STD	10.60	529.117 > 80.953	491		5.301		na	53.0
39	PFNS	68259-12-1	10.63	548.989 > 80.249	5119		11.149		na	116.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:04 Eastern Daylight Time

ID: WG1101262-3
Name: I6062
Date: 29-Mar-2018
Time: 16:55:18
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	2447		3.578		na	35.8
41	NMeFOSAA	2355-31-9	10.94	570.053 > 418.917	2608		10.145		na	101.4
42	PFUnA	2058-94-8	11.13	562.989 > 518.903	35912		10.726		na	107.3
43	M7-PFUDA	INT STD	11.13	570.053 > 524.923	32528		7.433		na	74.3
44	PFDS	335-77-3	11.15	598.926 > 80.314	5372		9.977		na	103.4
45	FOSA	754-91-6	11.06	497.989 > 78.245	10655		11.308		na	113.1
46	M8FOSA	INT STD	11.06	506.053 > 78.286	11539		4.890		na	48.9
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	3016		4.656		na	46.6
48	NEtFOSAA	2991-50-6	11.22	583.989 > 418.927	1988		7.179		na	71.8
49	PFDoA	307-55-1	11.59	612.989 > 568.967	32510		10.758		na	107.6
50	MPFDOA	INT STD	11.59	614.989 > 569.92	30869		6.817		na	68.2
51	PFTrDA	72629-94-8	11.99	663.053 > 618.969	21867		7.662		na	76.6
52	PFTA	376-06-7	12.34	713.053 > 668.976	11660		10.112		na	101.1
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	13518		3.798		na	38.0

all concentration units in (ng/mL)

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Name: I6062
ID: WG1101262-3
Date: 29-Mar-2018
Time: 16:55:18
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,4
Instrument: XEVO-TQSmicro#QEA0276
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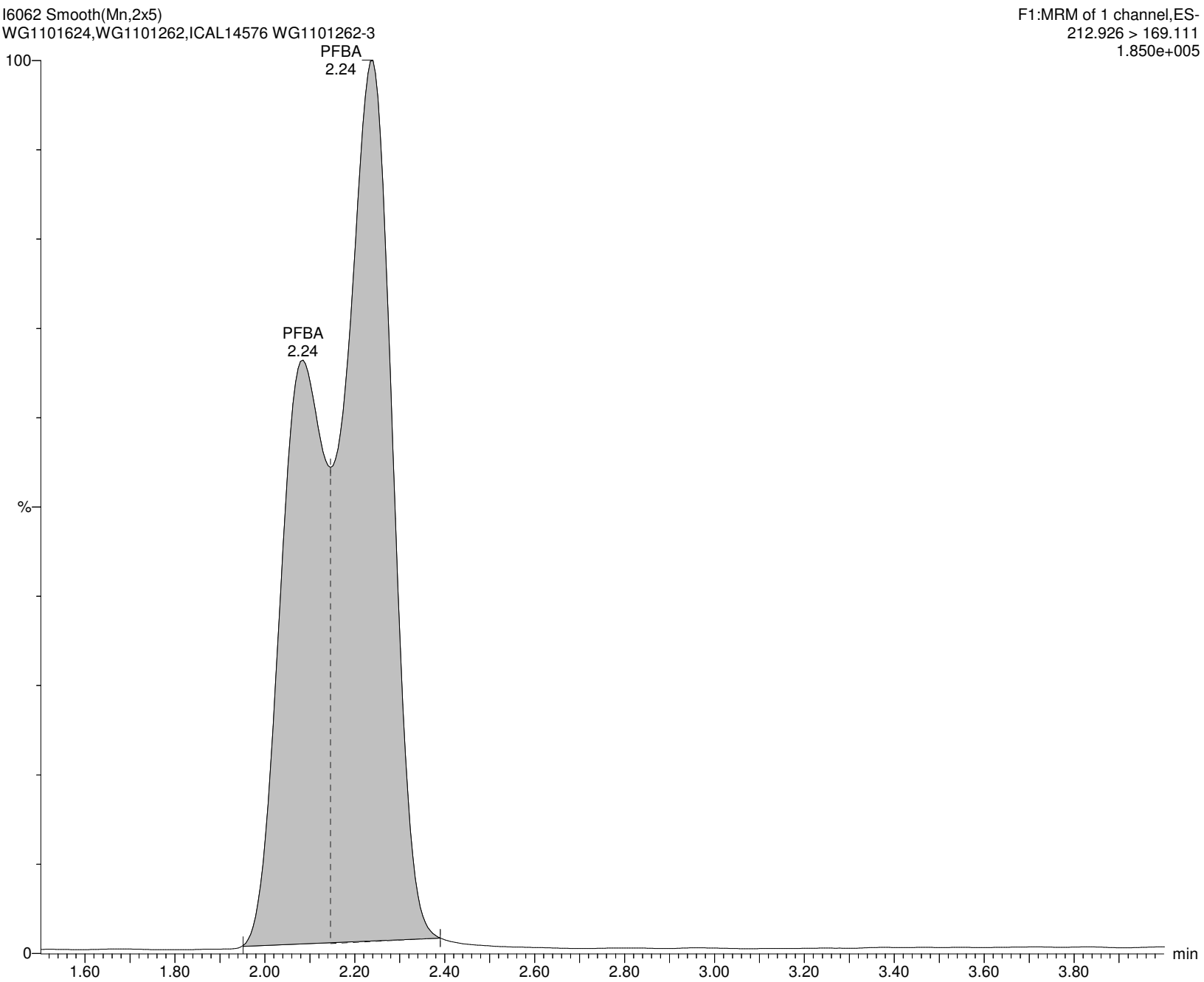

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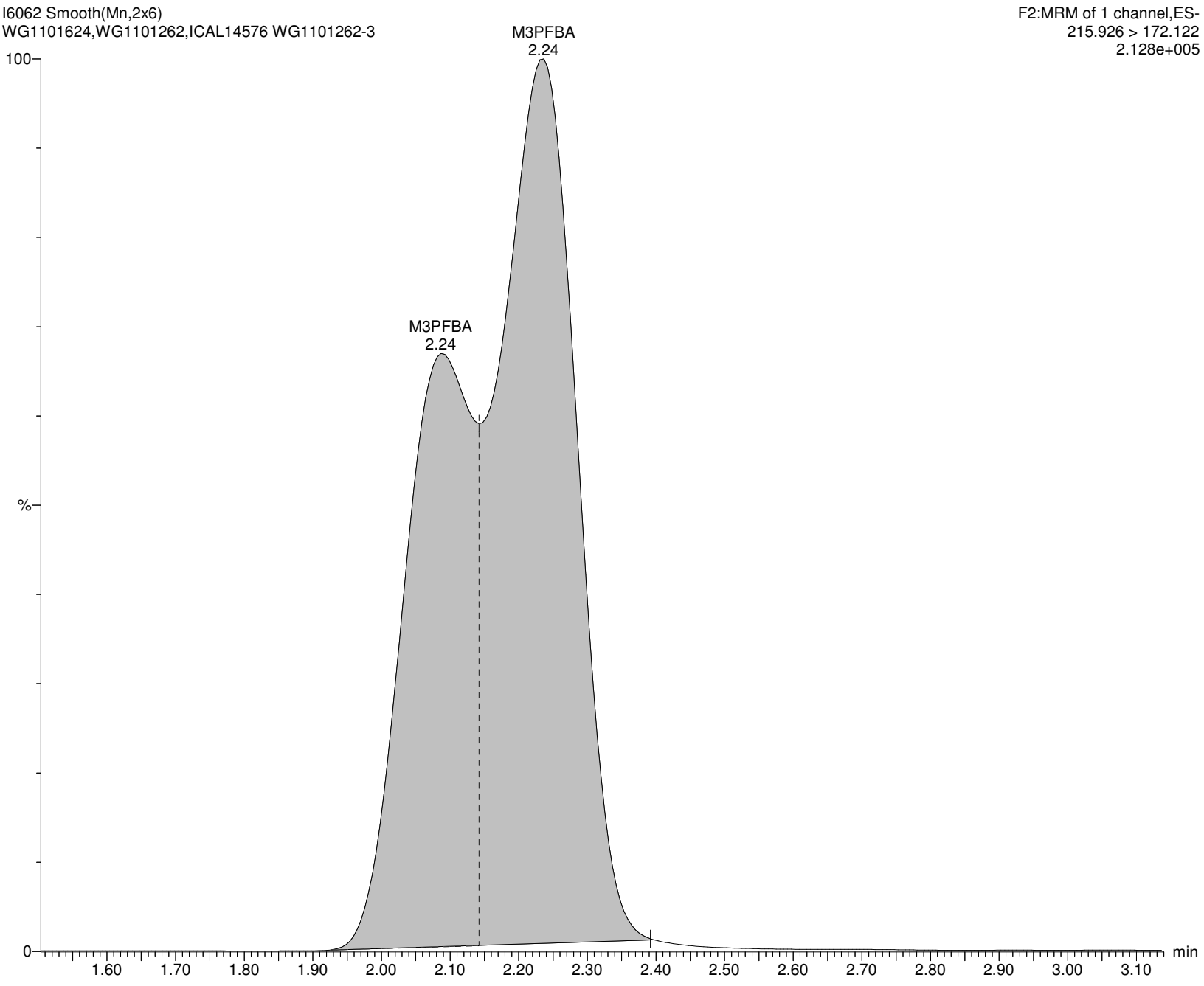

all concentration units in (ng/mL)

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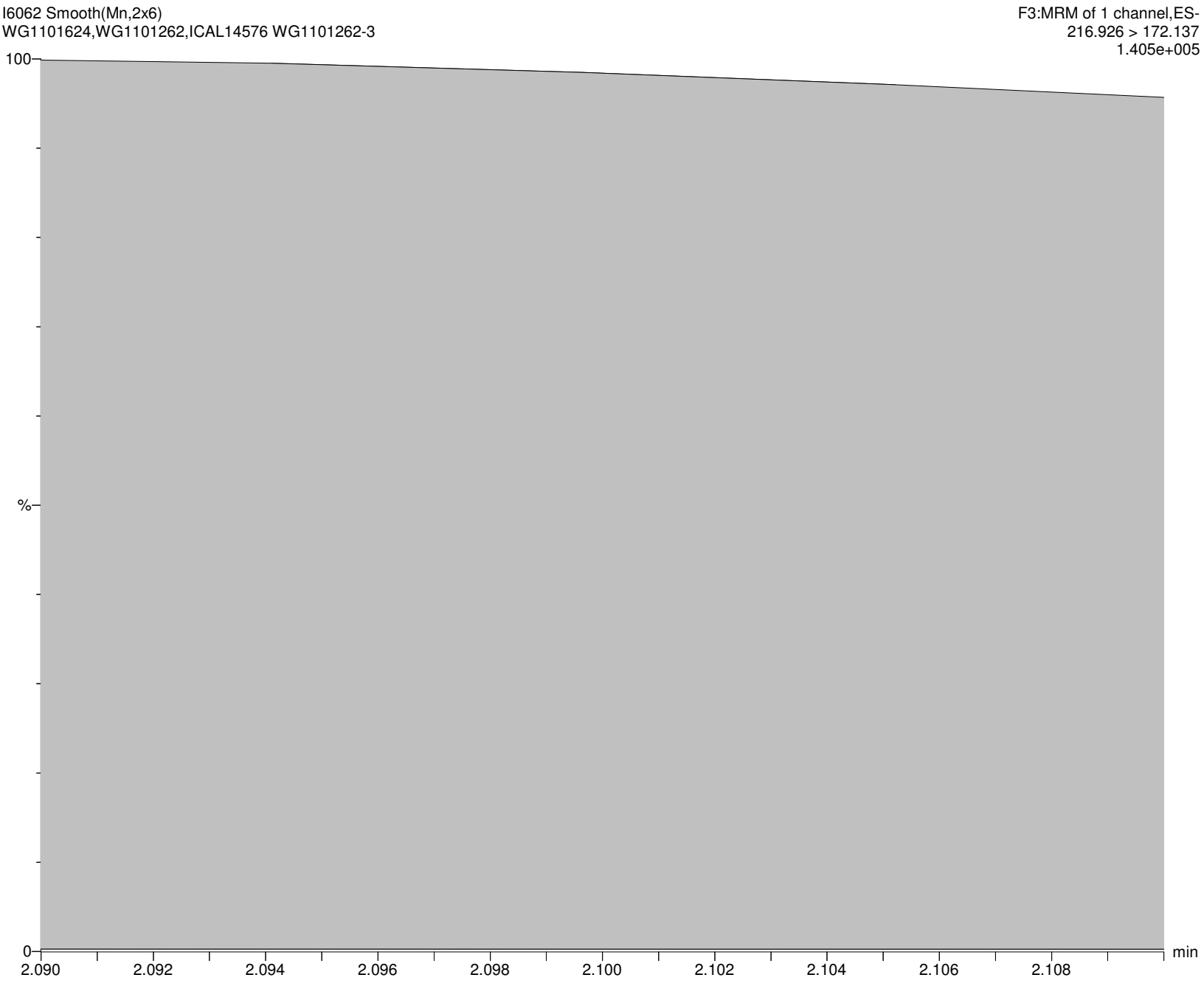

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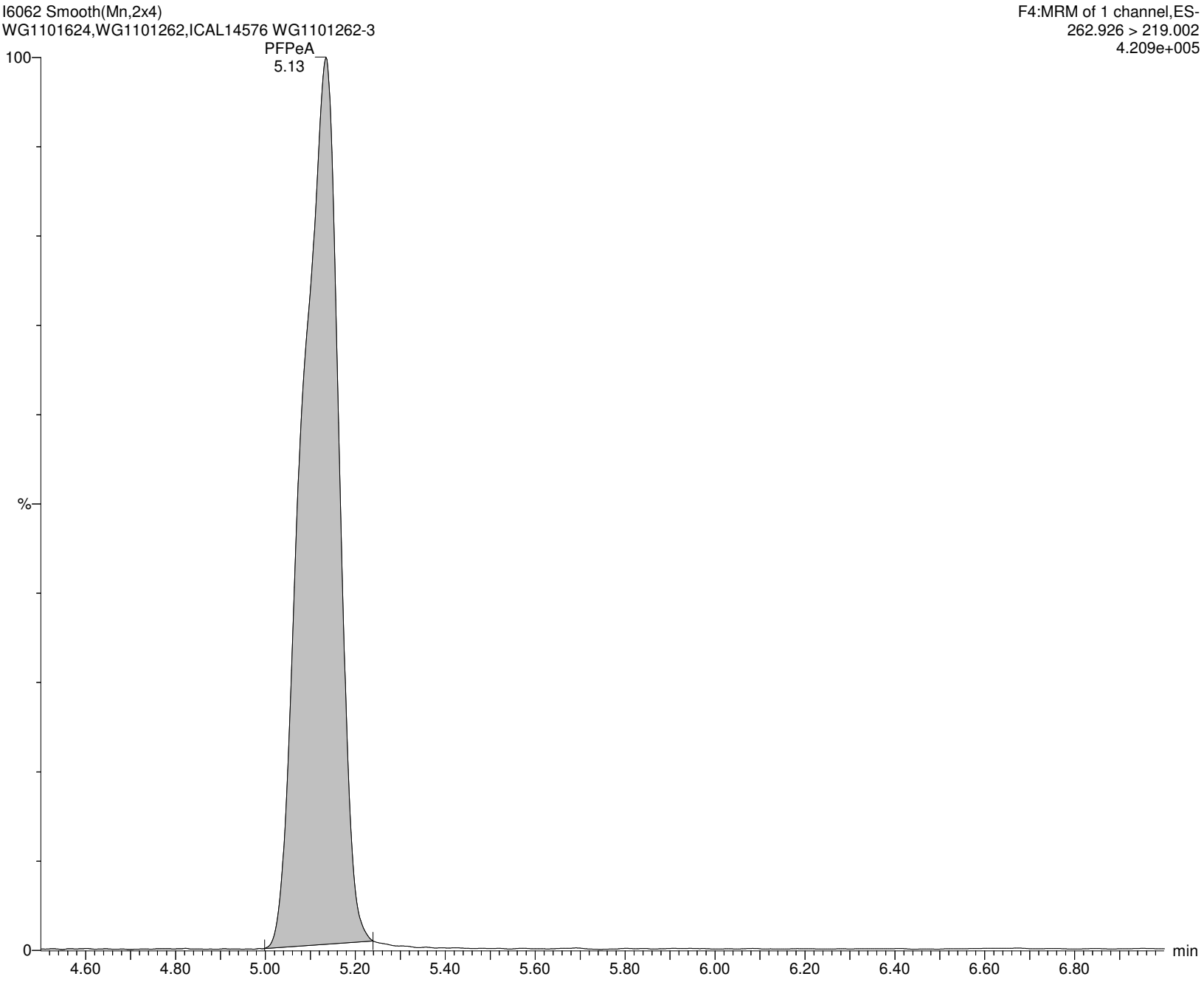

all concentration units in (ng/mL)

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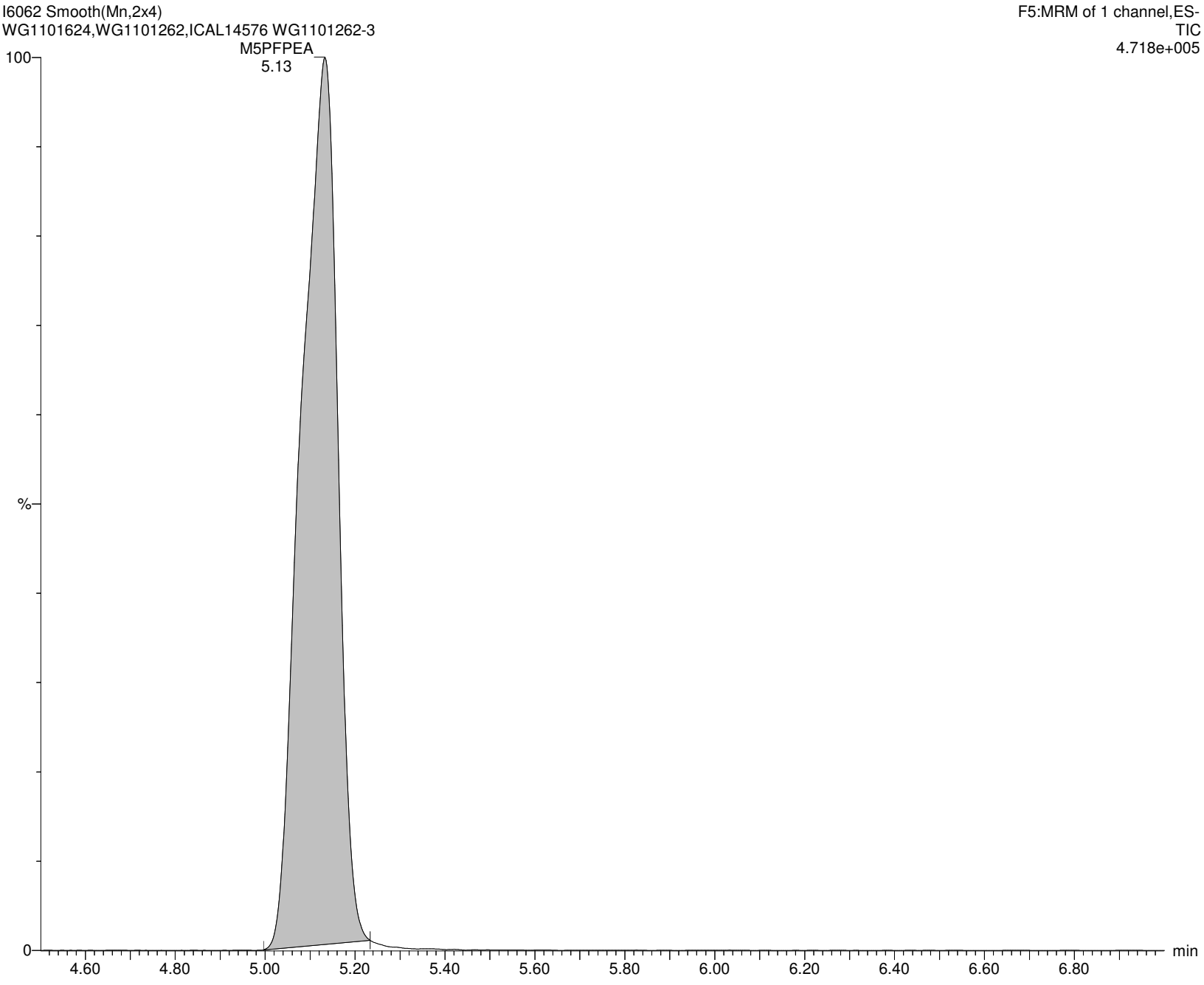

all concentration units in (ng/mL)

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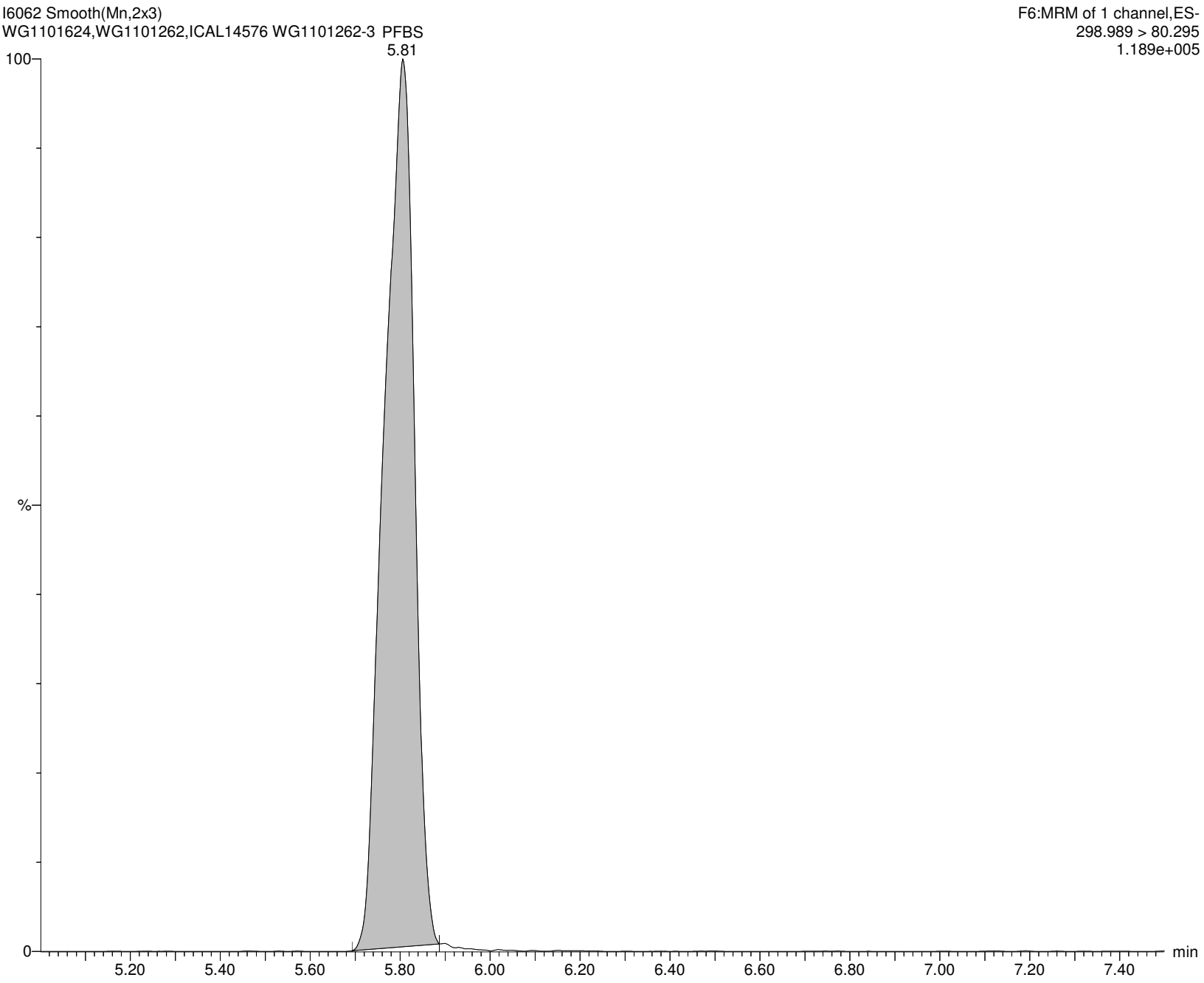

all concentration units in (ng/mL)

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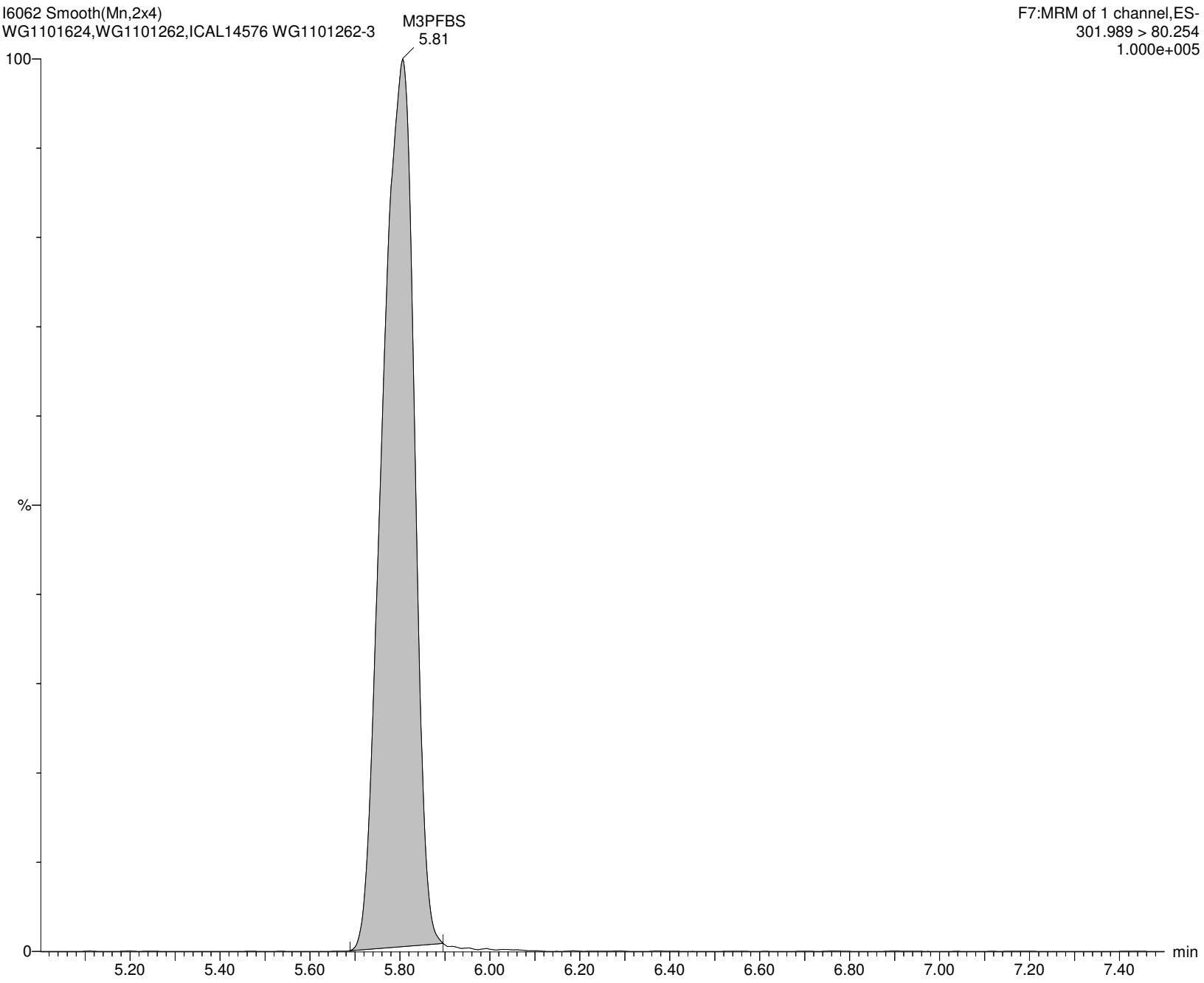

all concentration units in (ng/mL)

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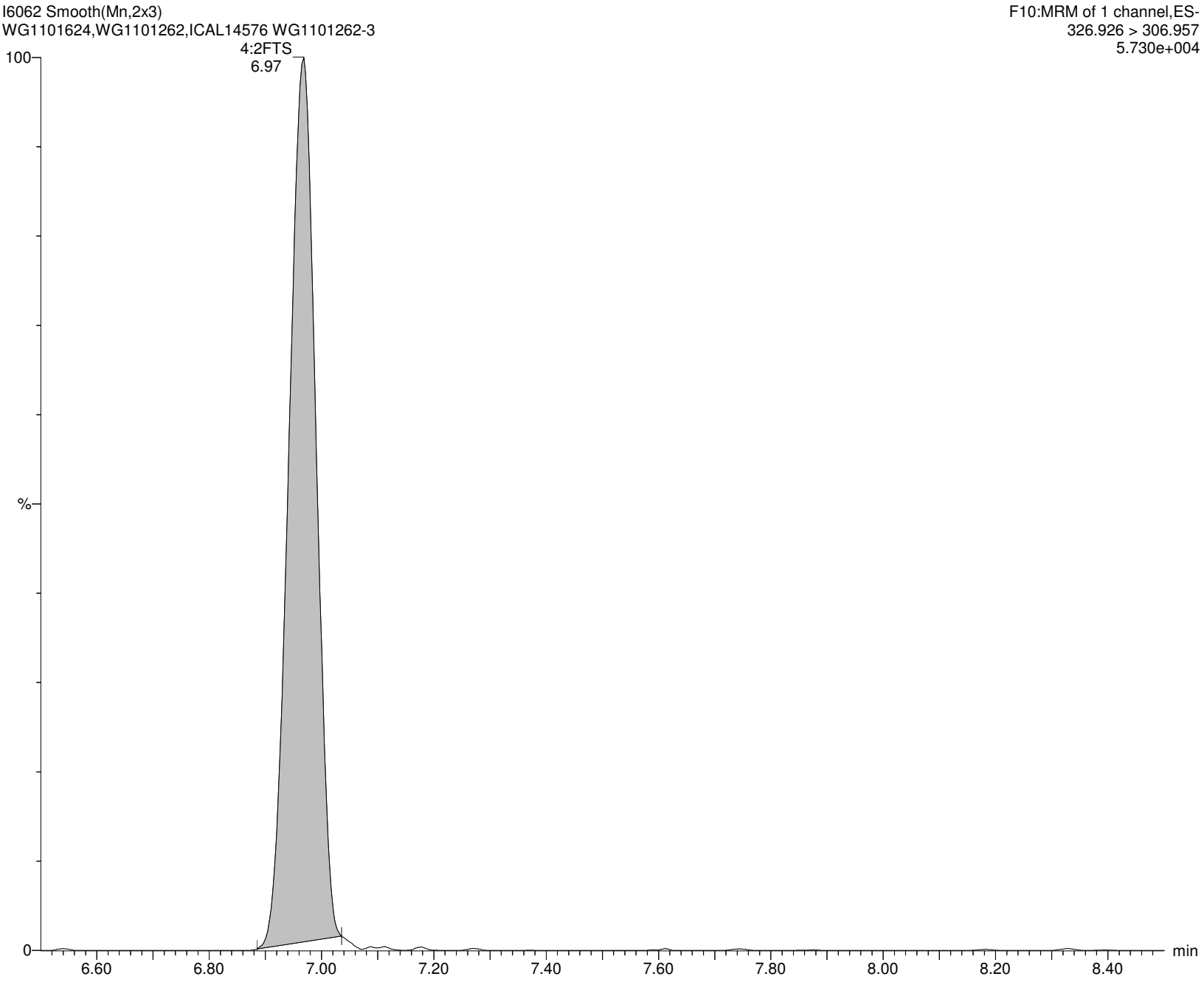

all concentration units in (ng/mL)

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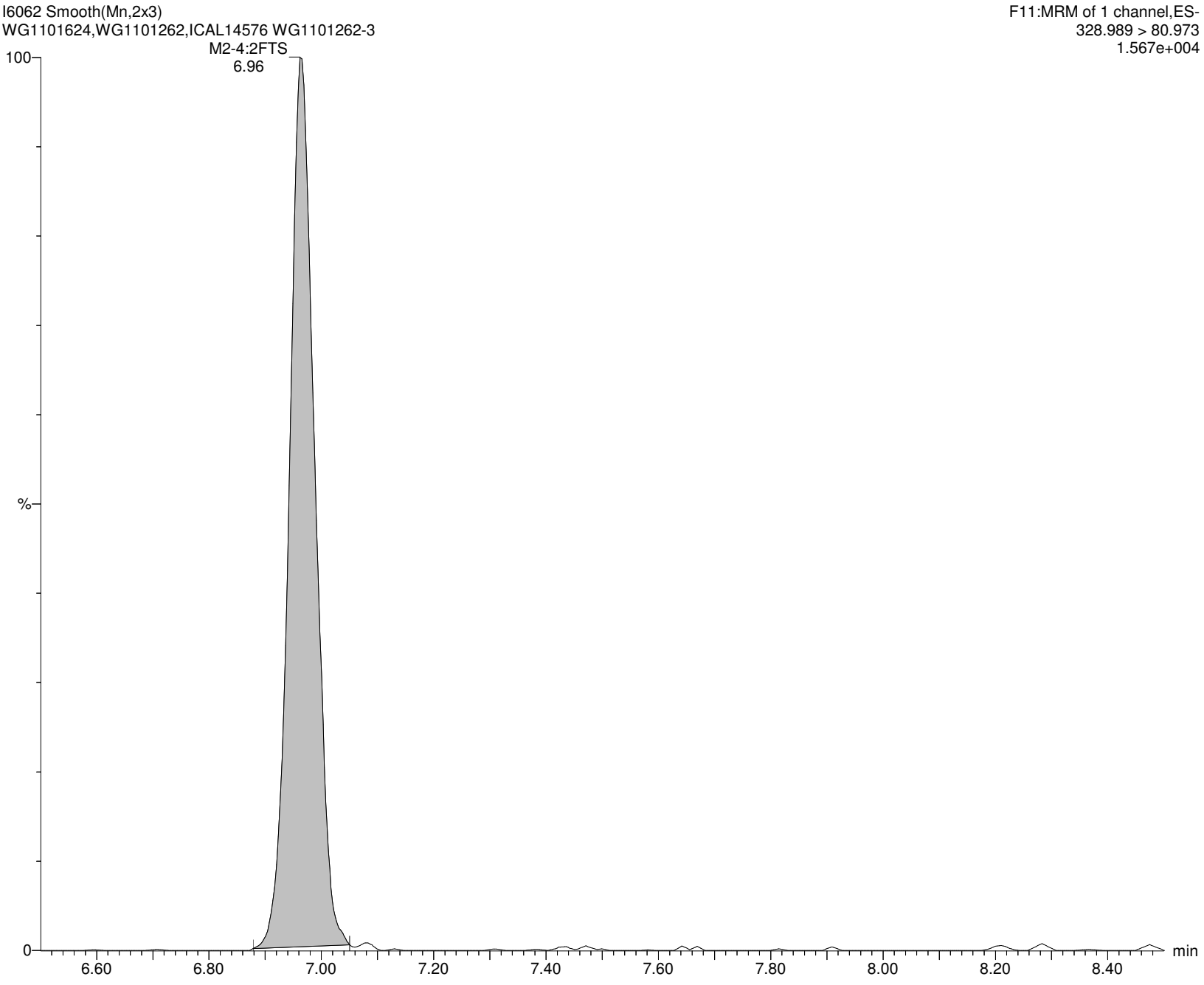

all concentration units in (ng/mL)

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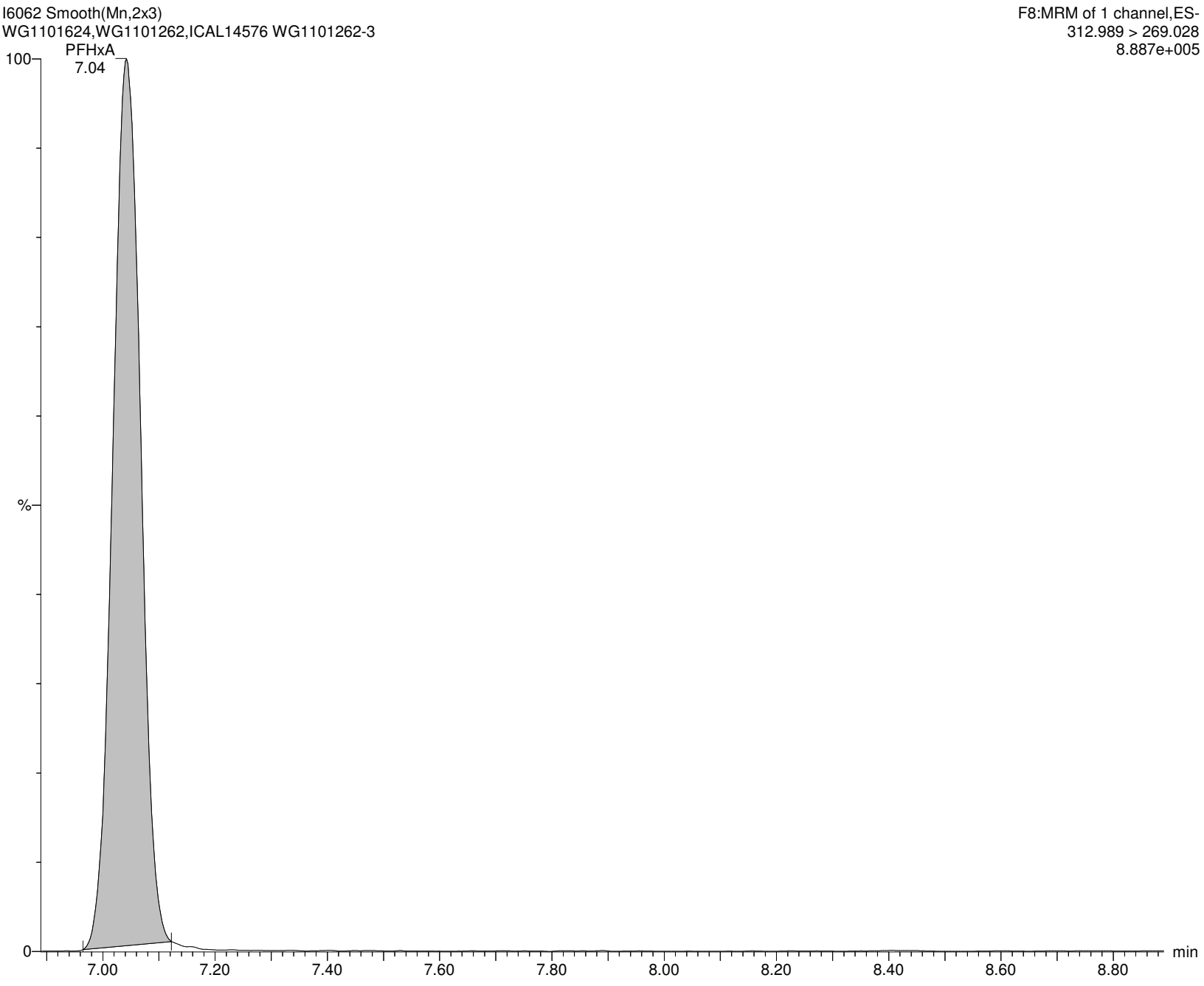

all concentration units in (ng/mL)

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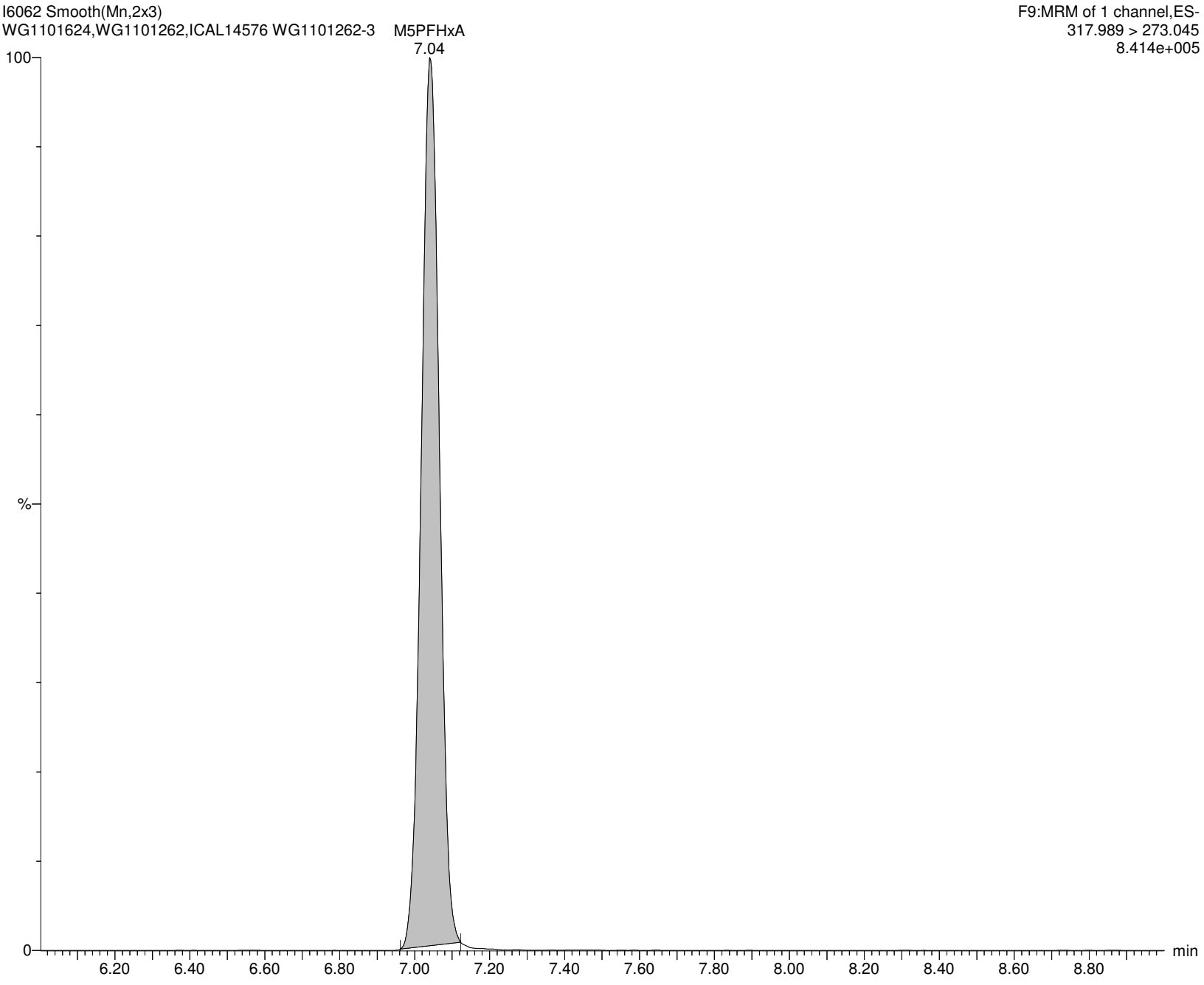

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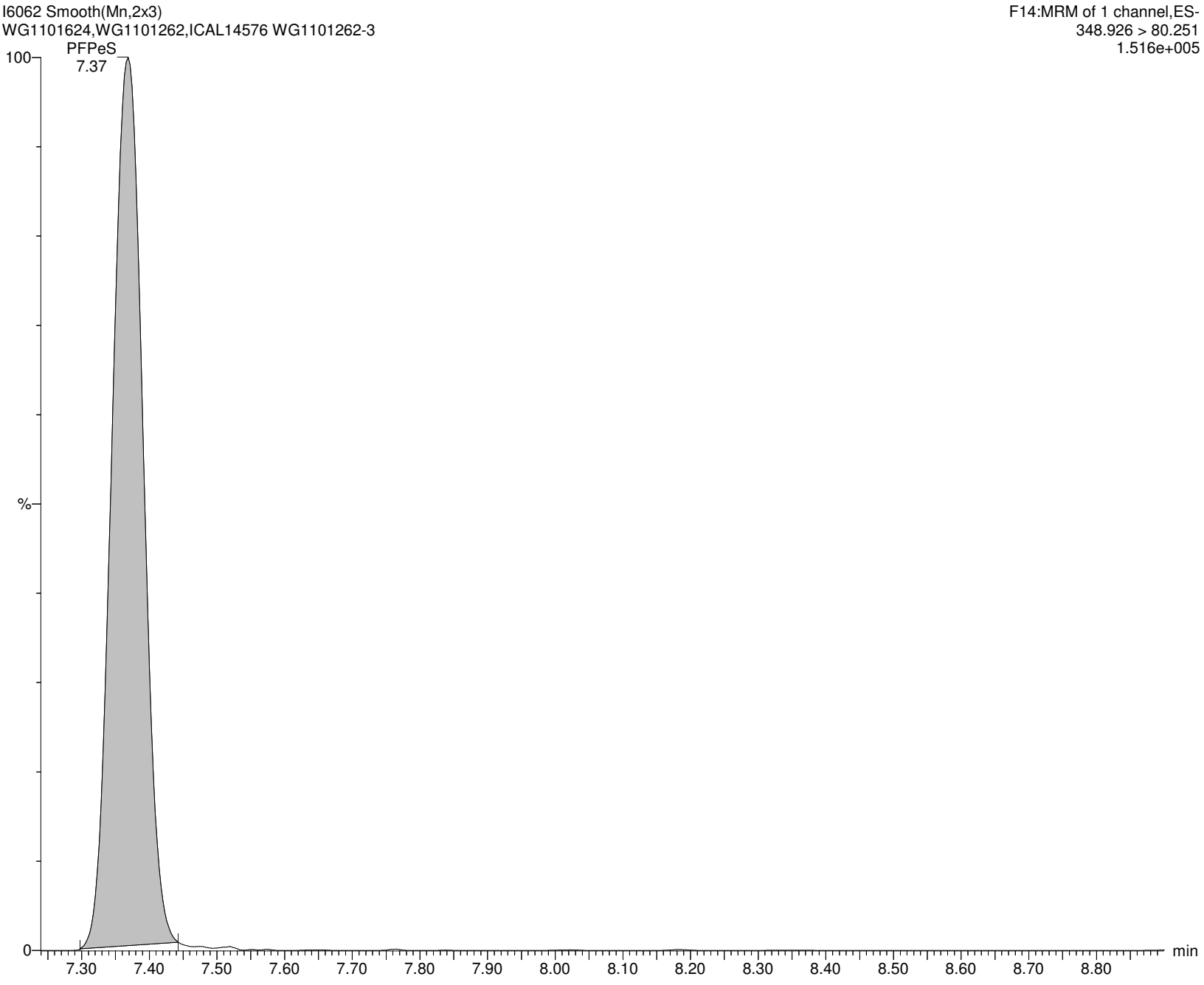

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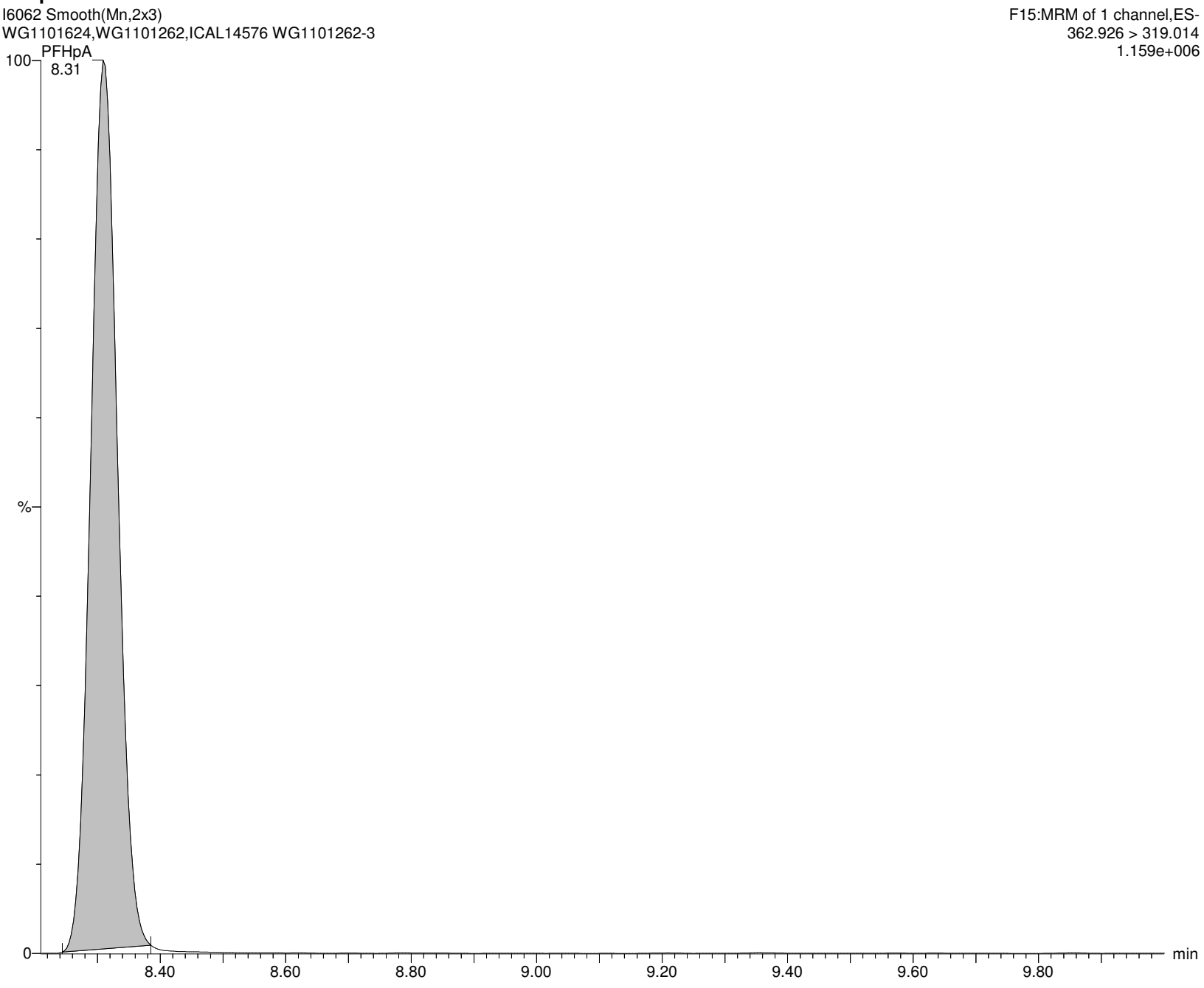

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:04 Eastern Daylight Time

Name: I6062
ID: WG1101262-3
Date: 29-Mar-2018
Time: 16:55:18
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
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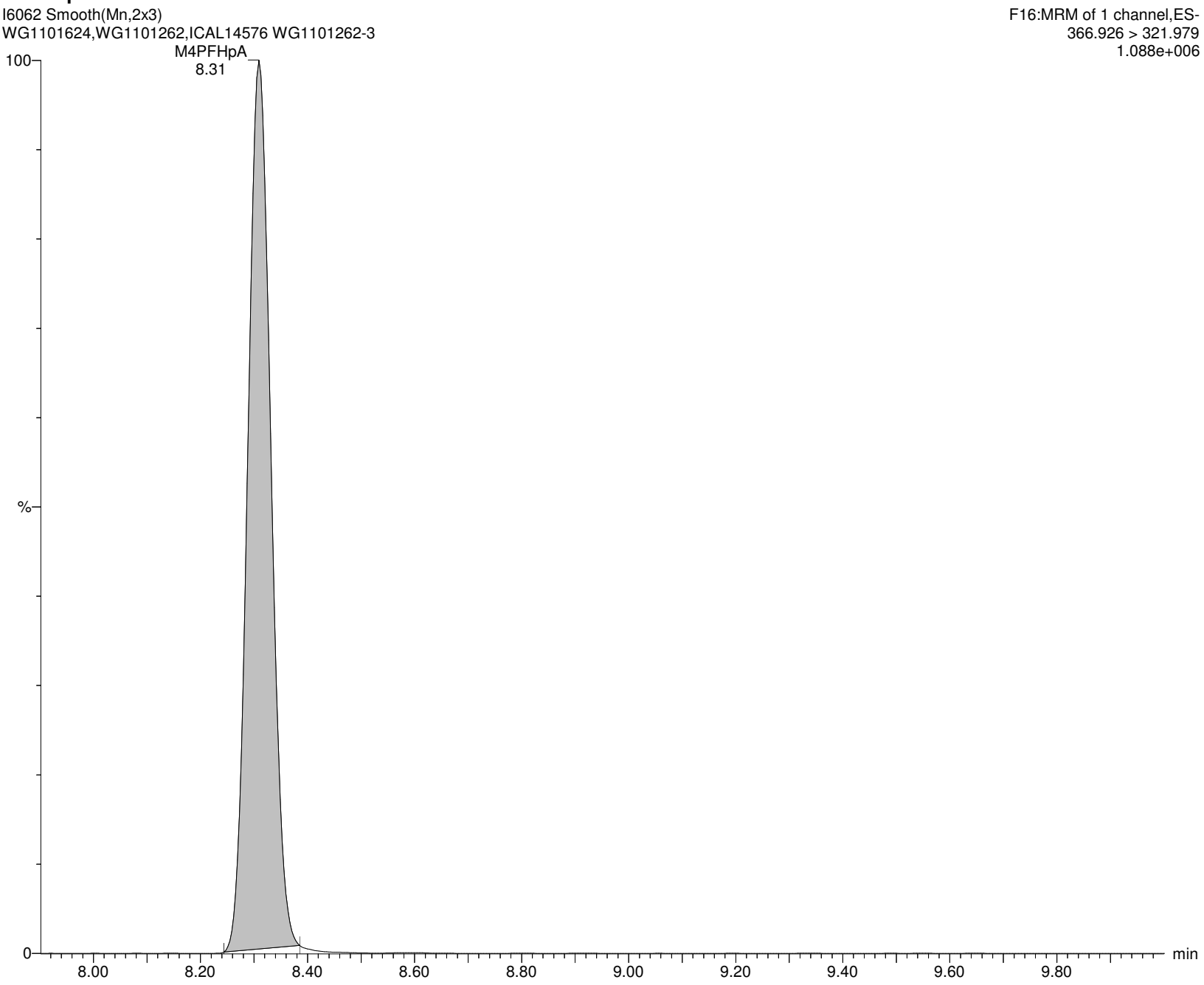

all concentration units in (ng/mL)

Alpha Analytical Inc.
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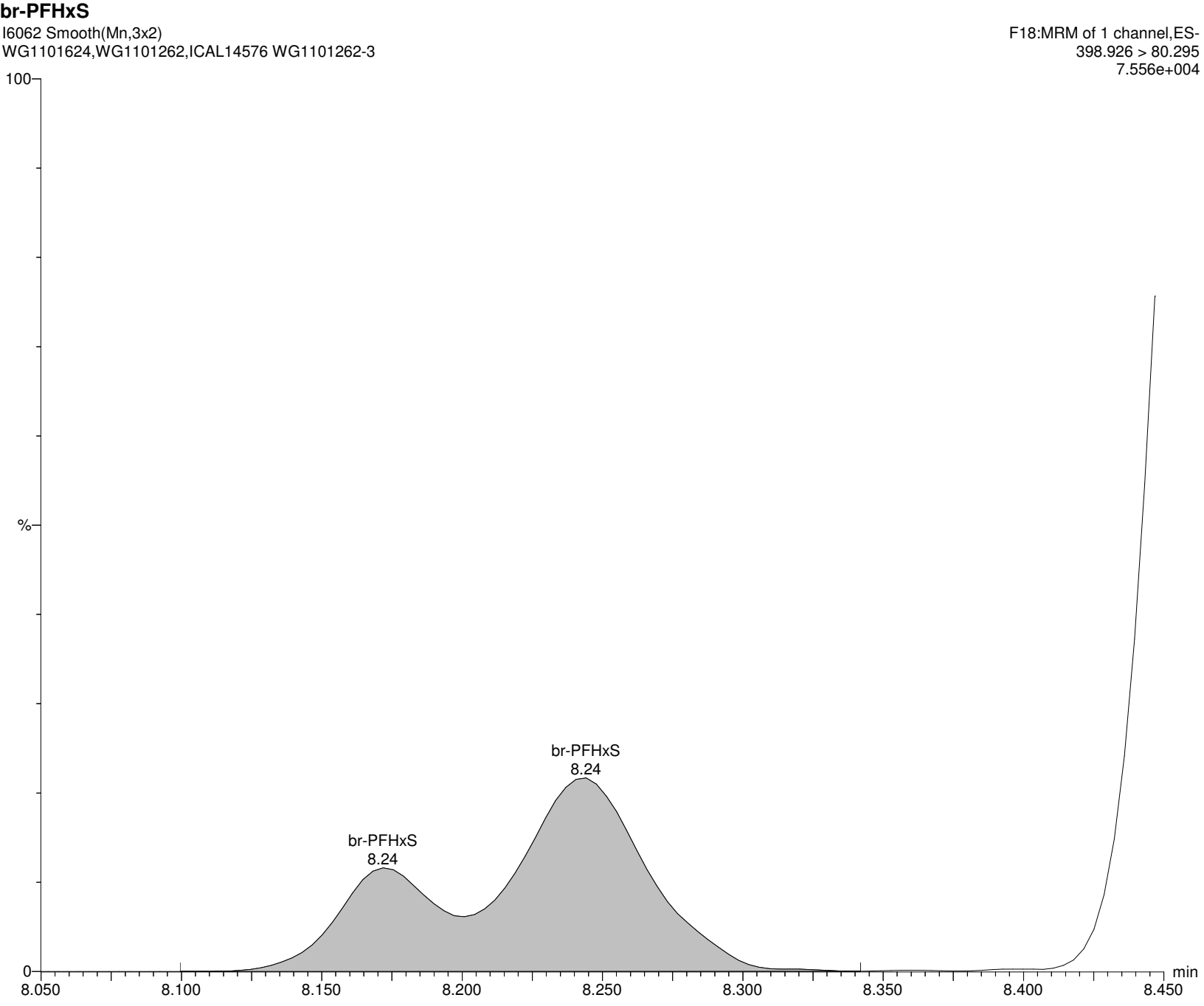

all concentration units in (ng/mL)

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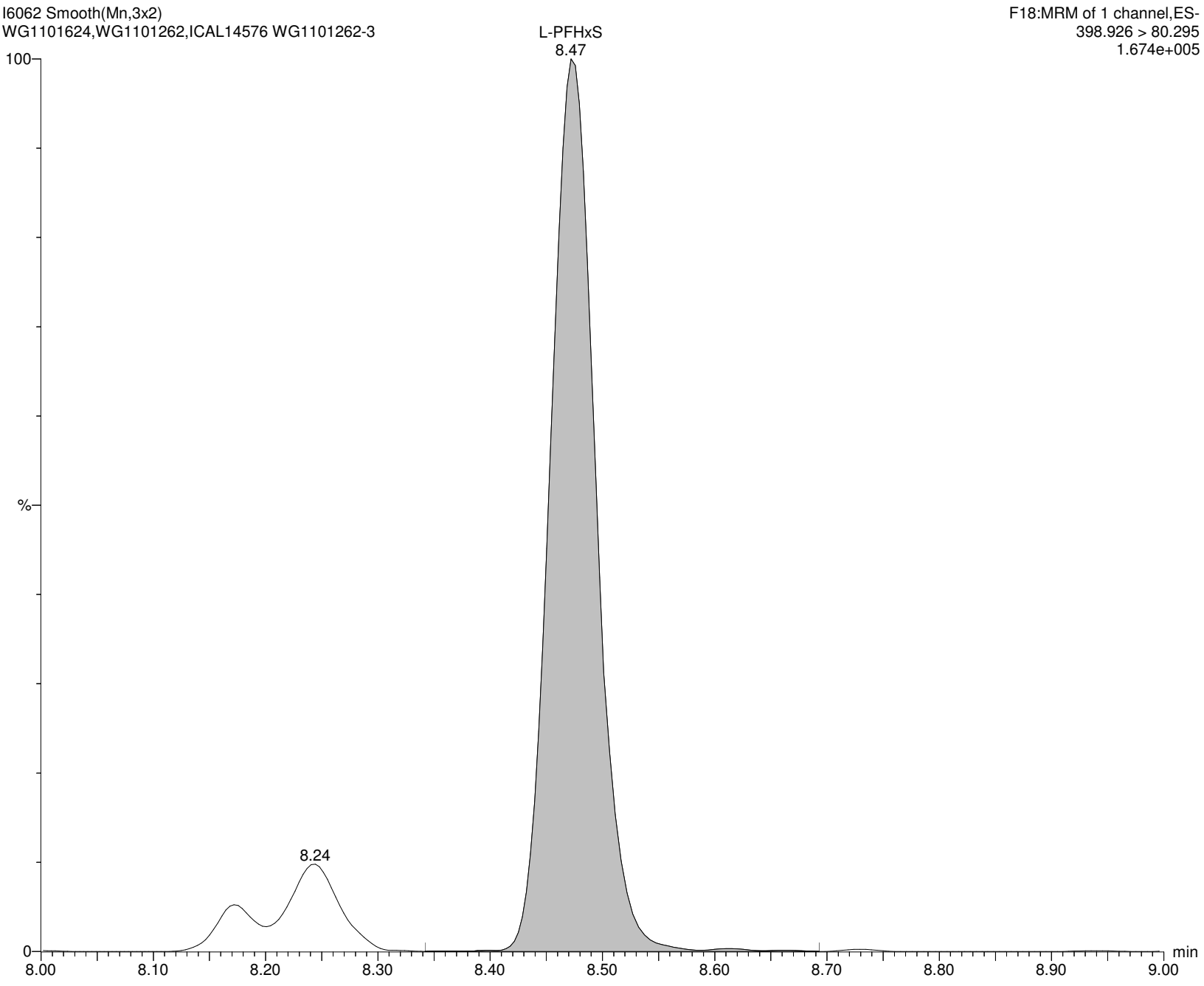

all concentration units in (ng/mL)

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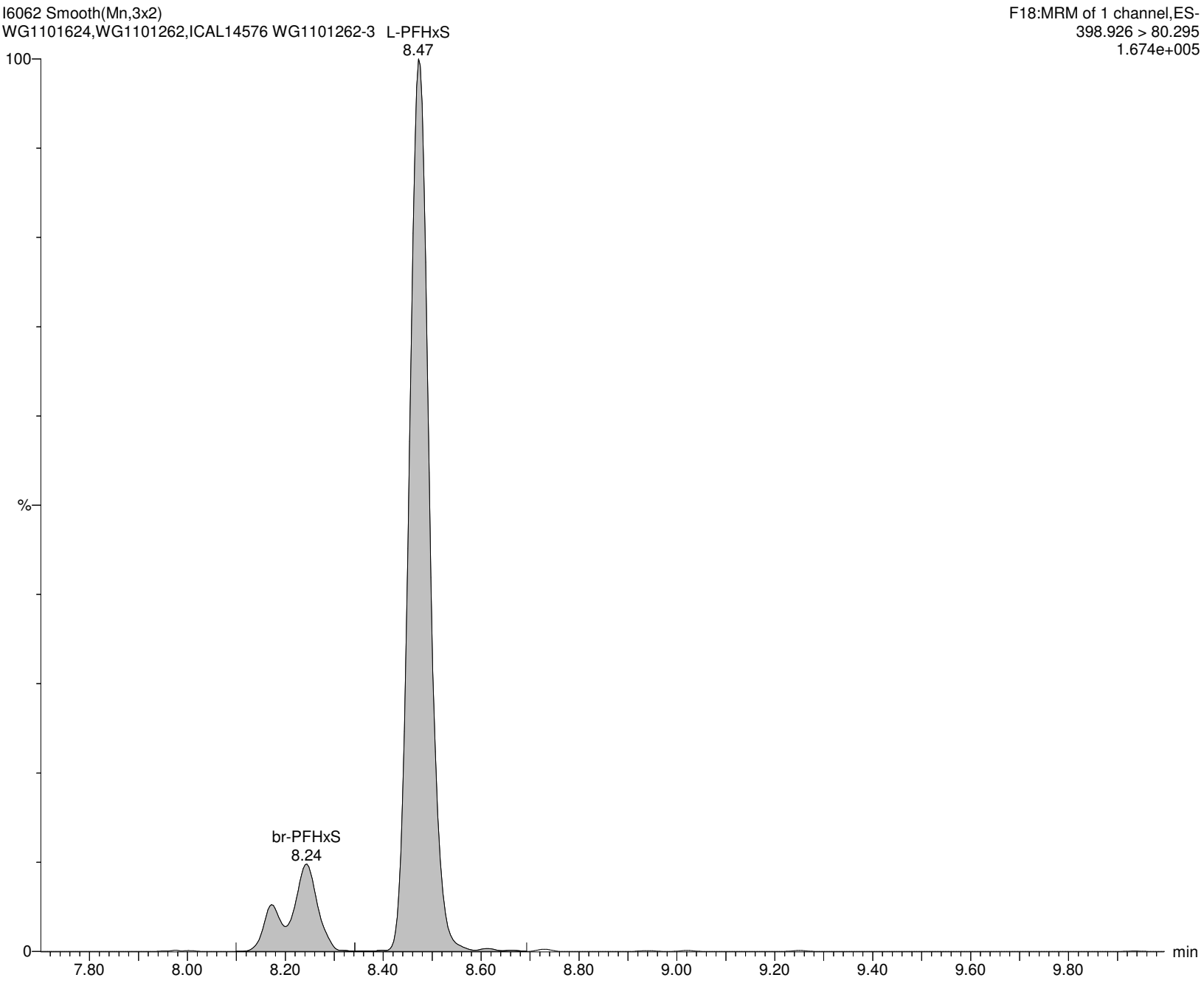

all concentration units in (ng/mL)

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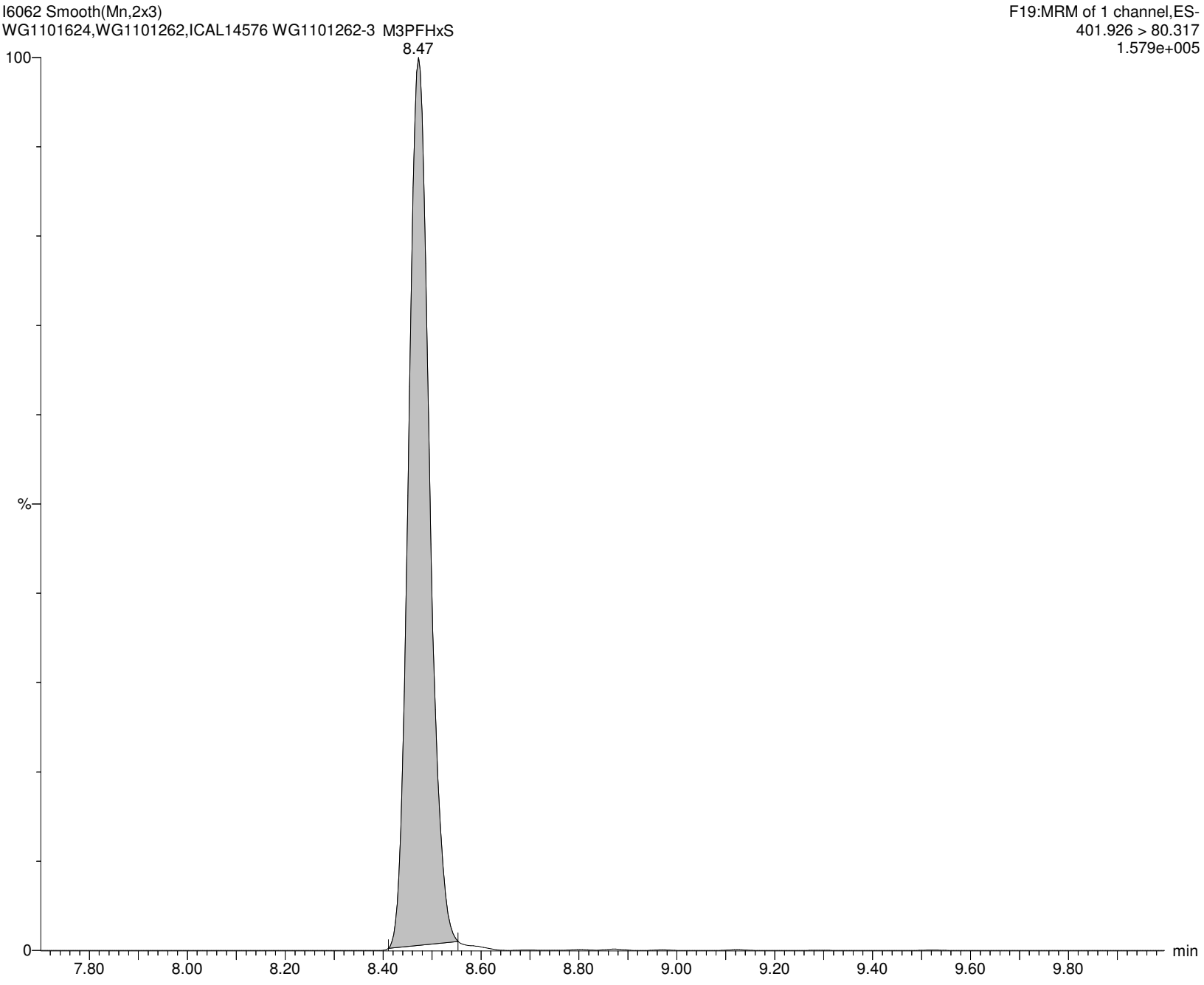

all concentration units in (ng/mL)

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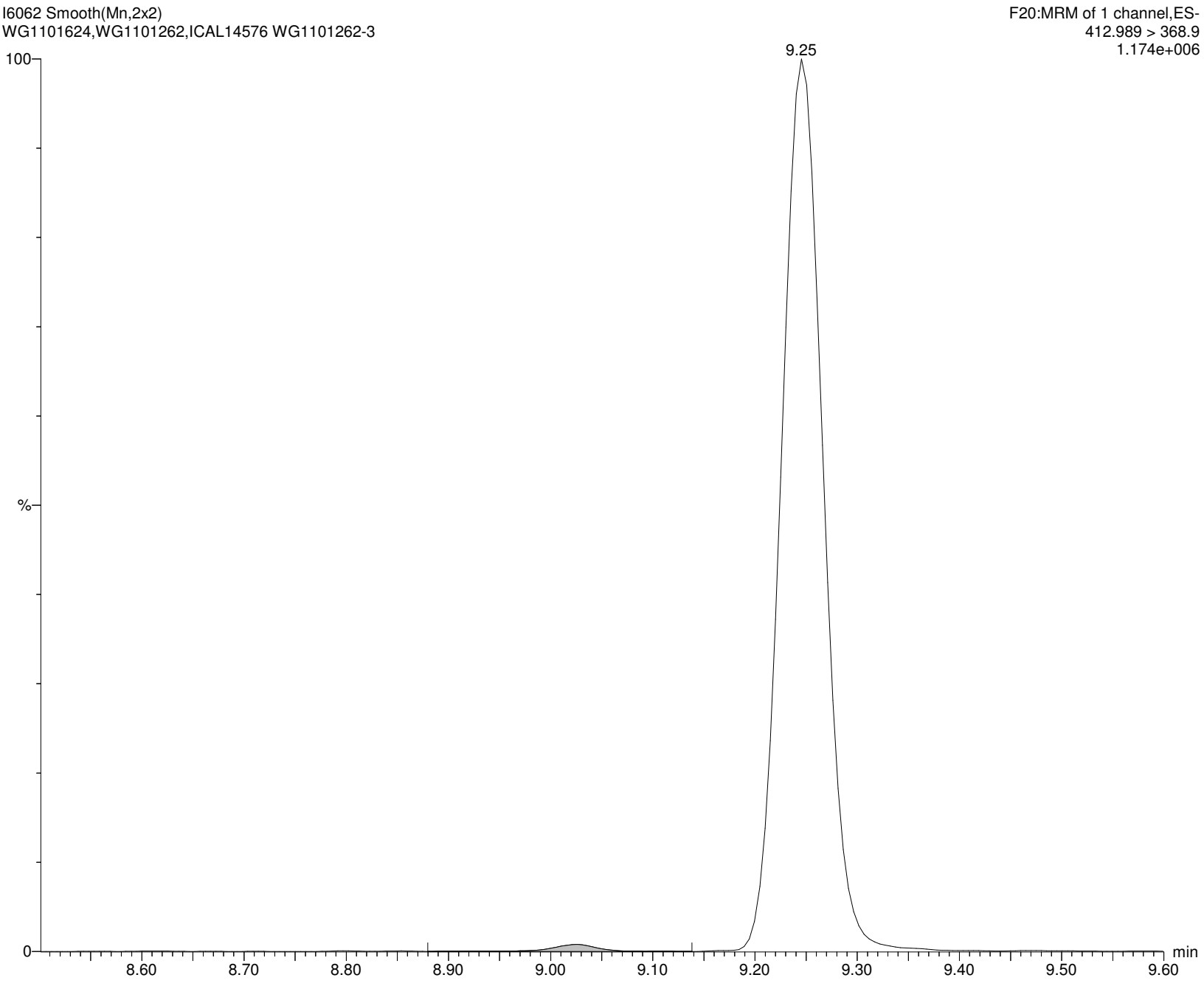

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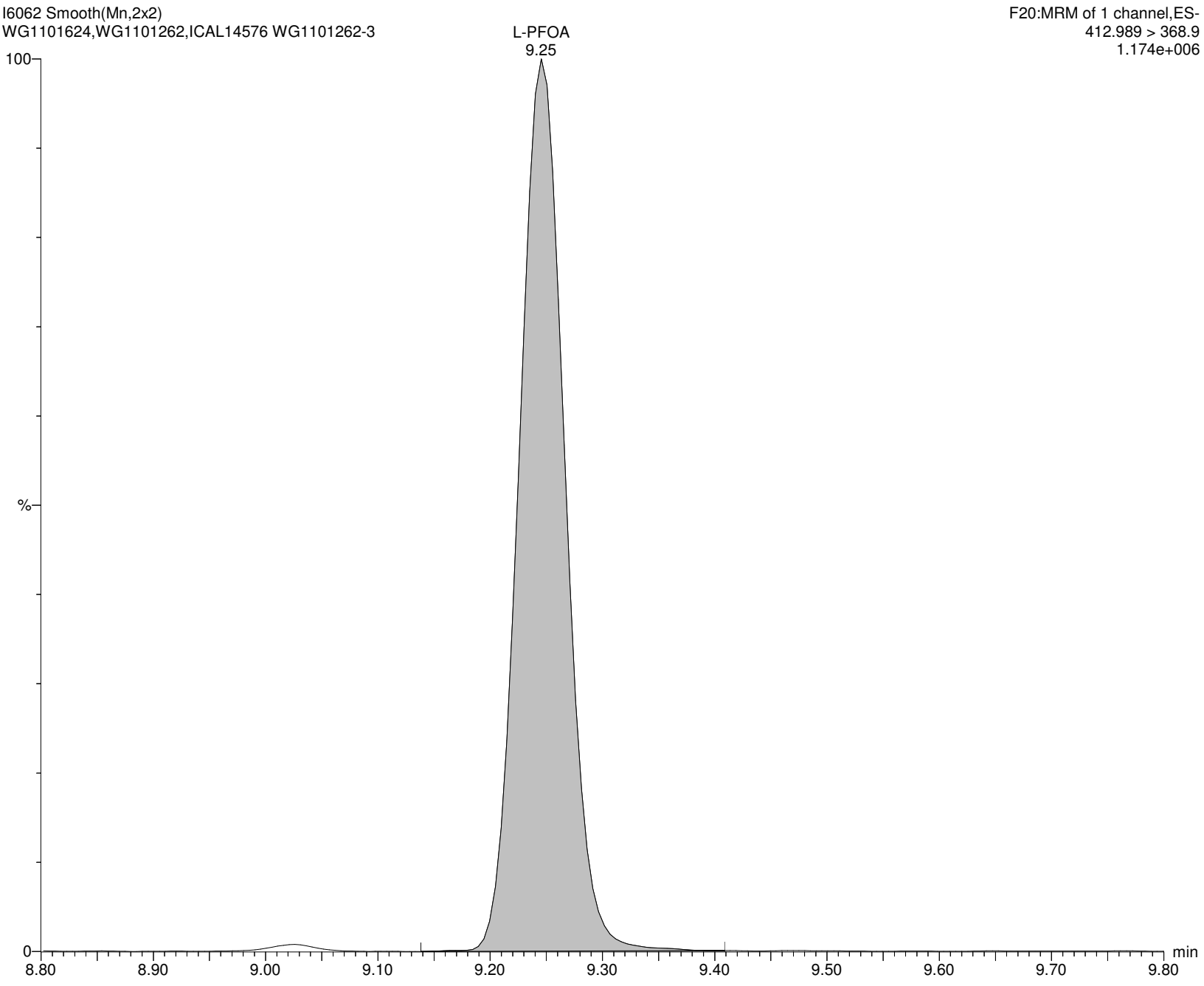

all concentration units in (ng/mL)

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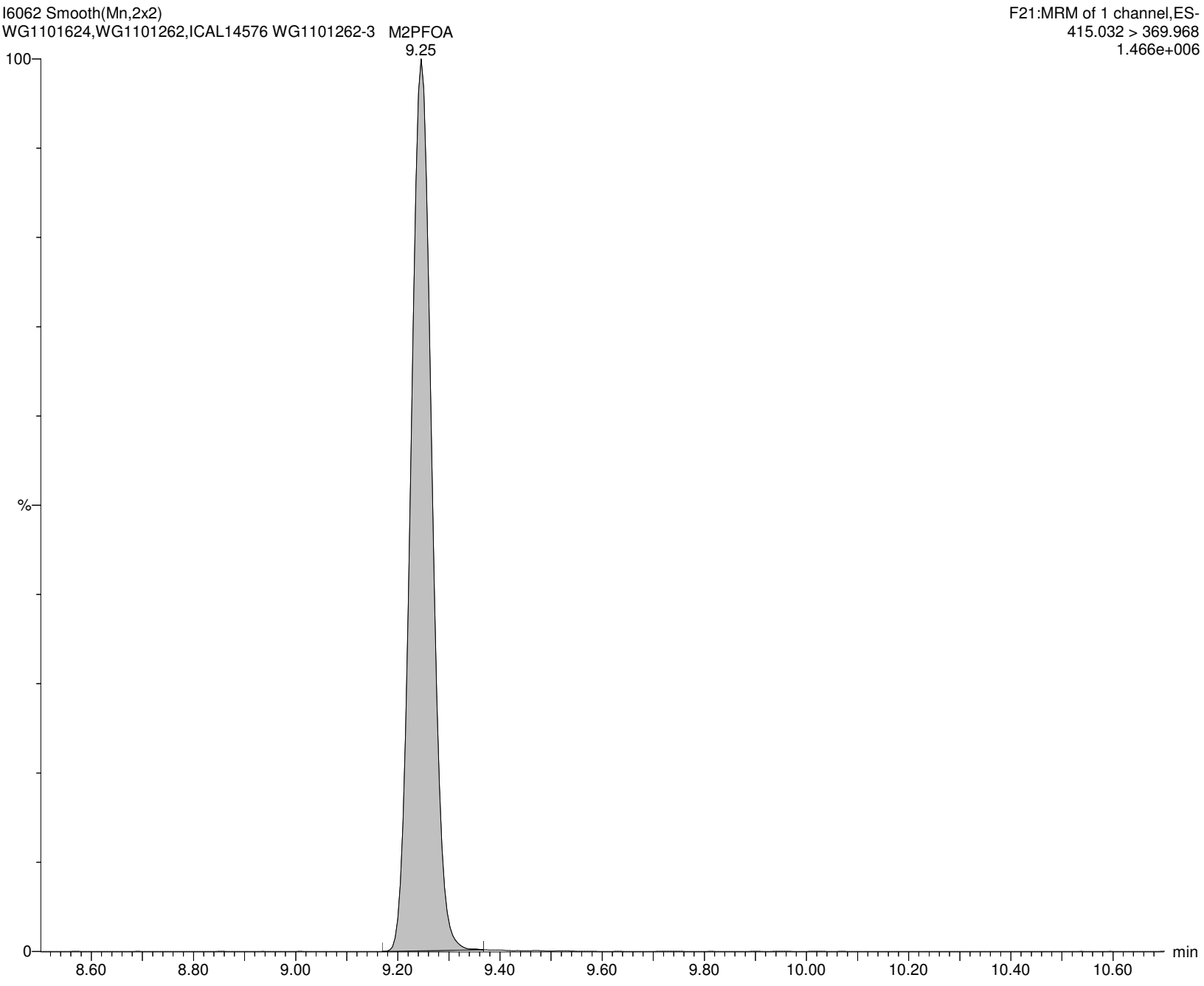

all concentration units in (ng/mL)

Alpha Analytical Inc.
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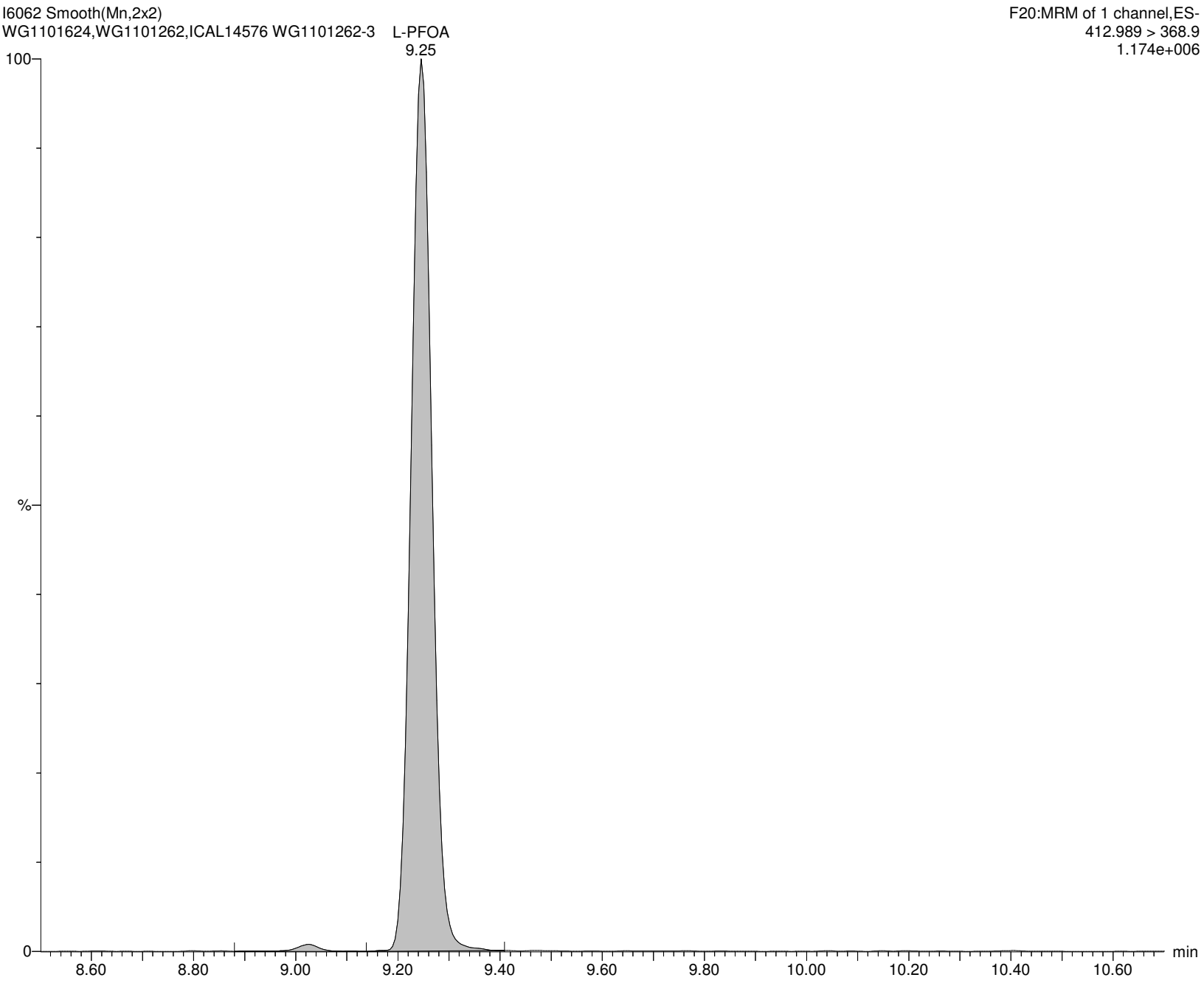

all concentration units in (ng/mL)

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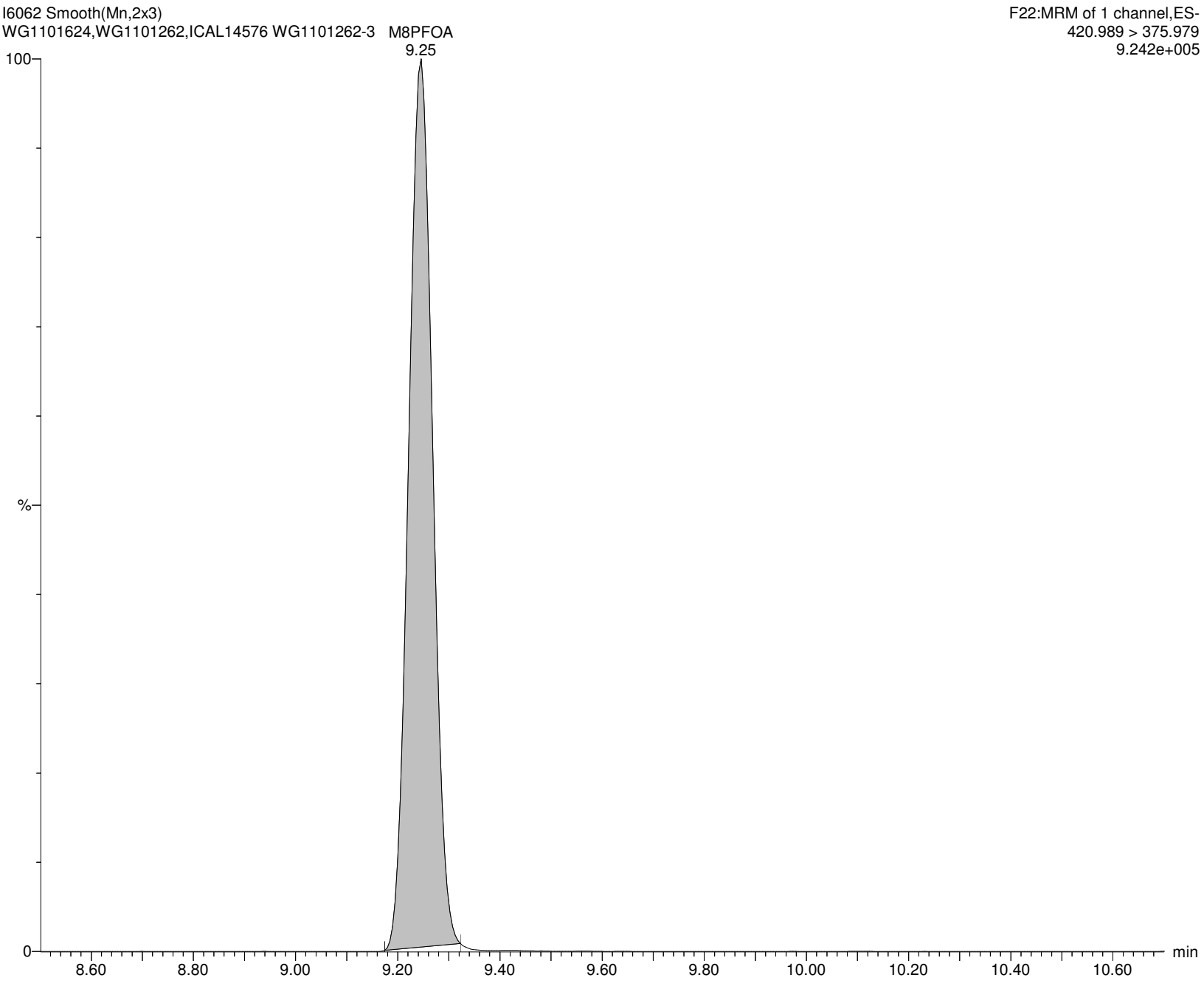

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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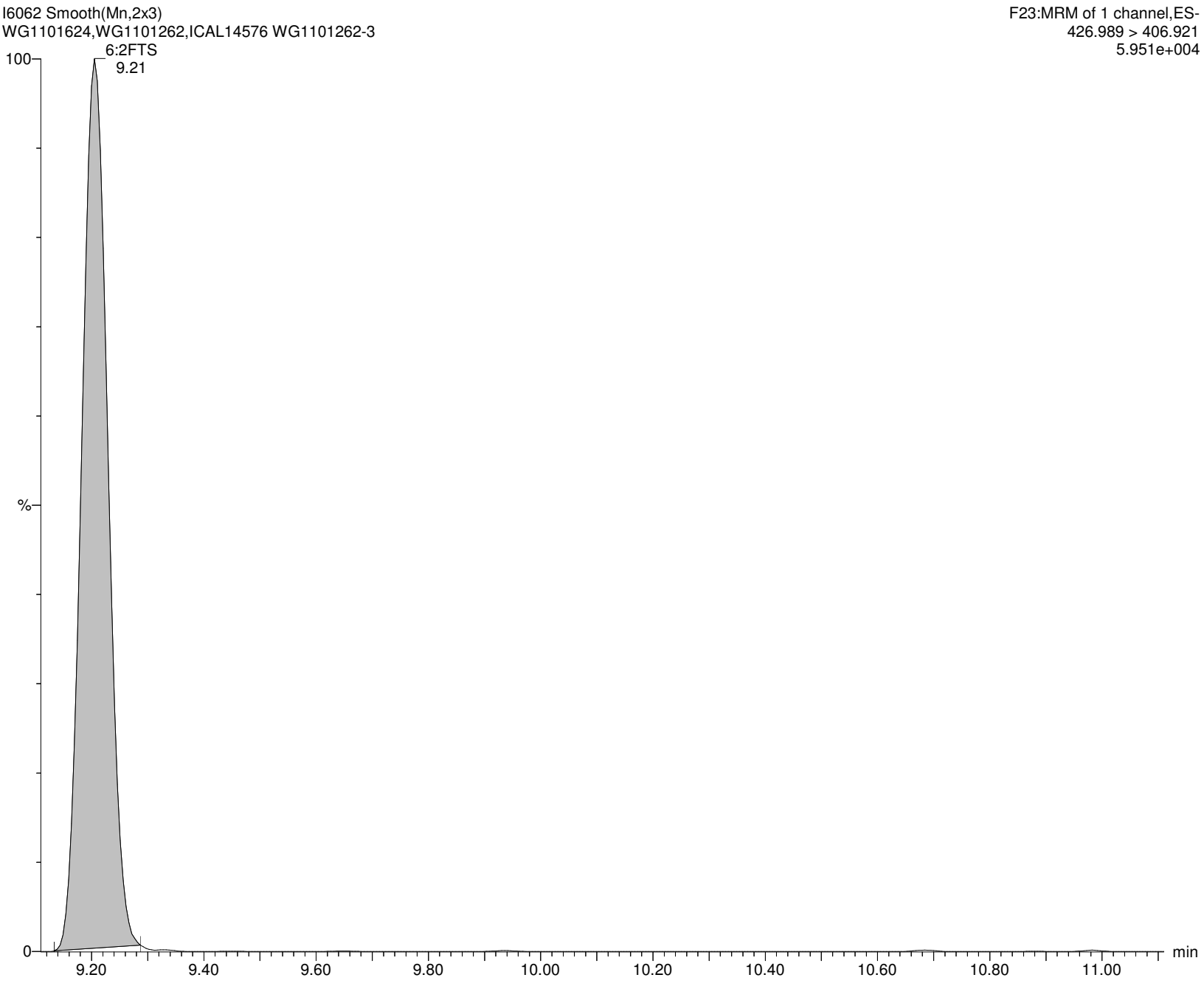

all concentration units in (ng/mL)

Alpha Analytical Inc.
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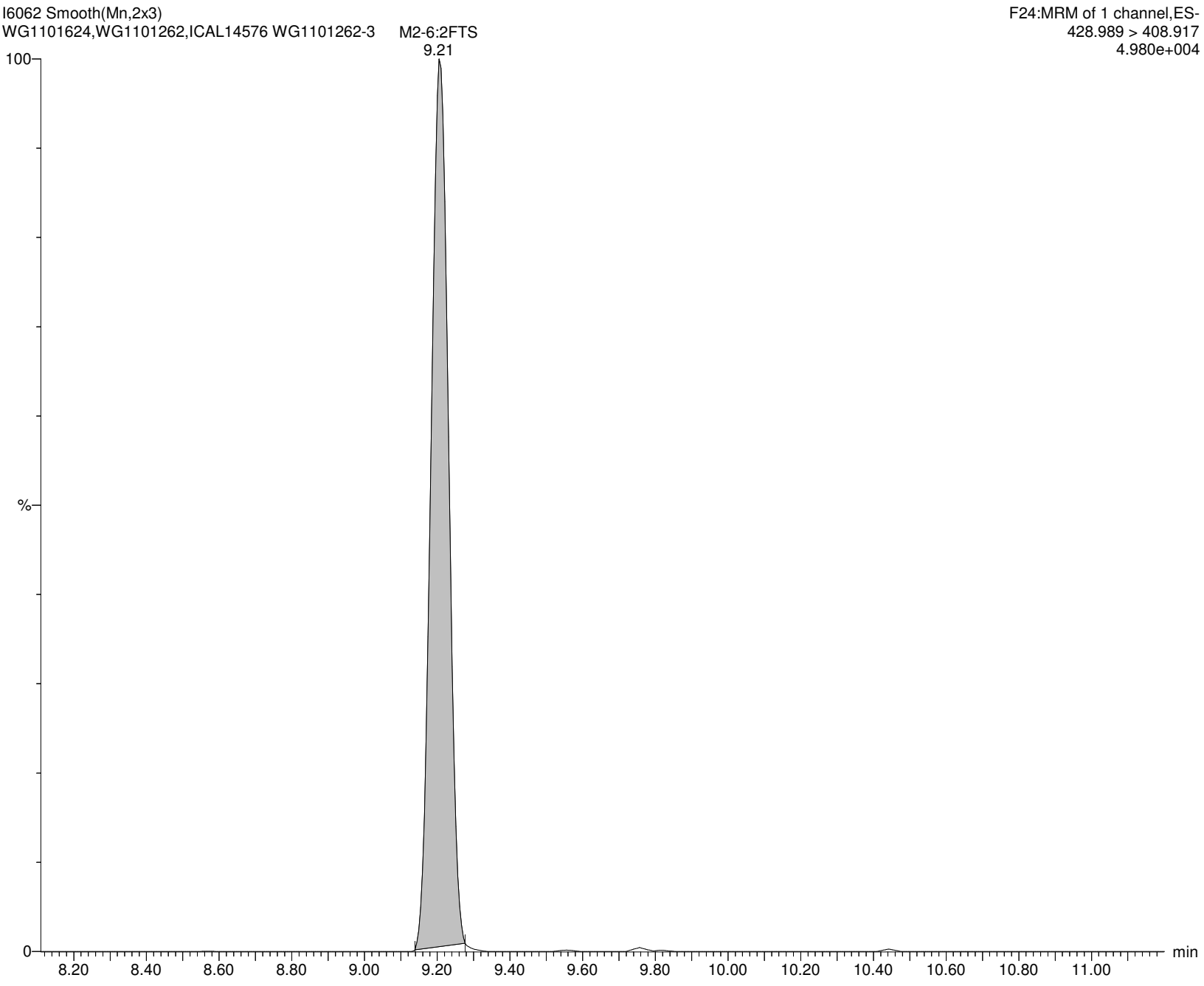

all concentration units in (ng/mL)

Alpha Analytical Inc.
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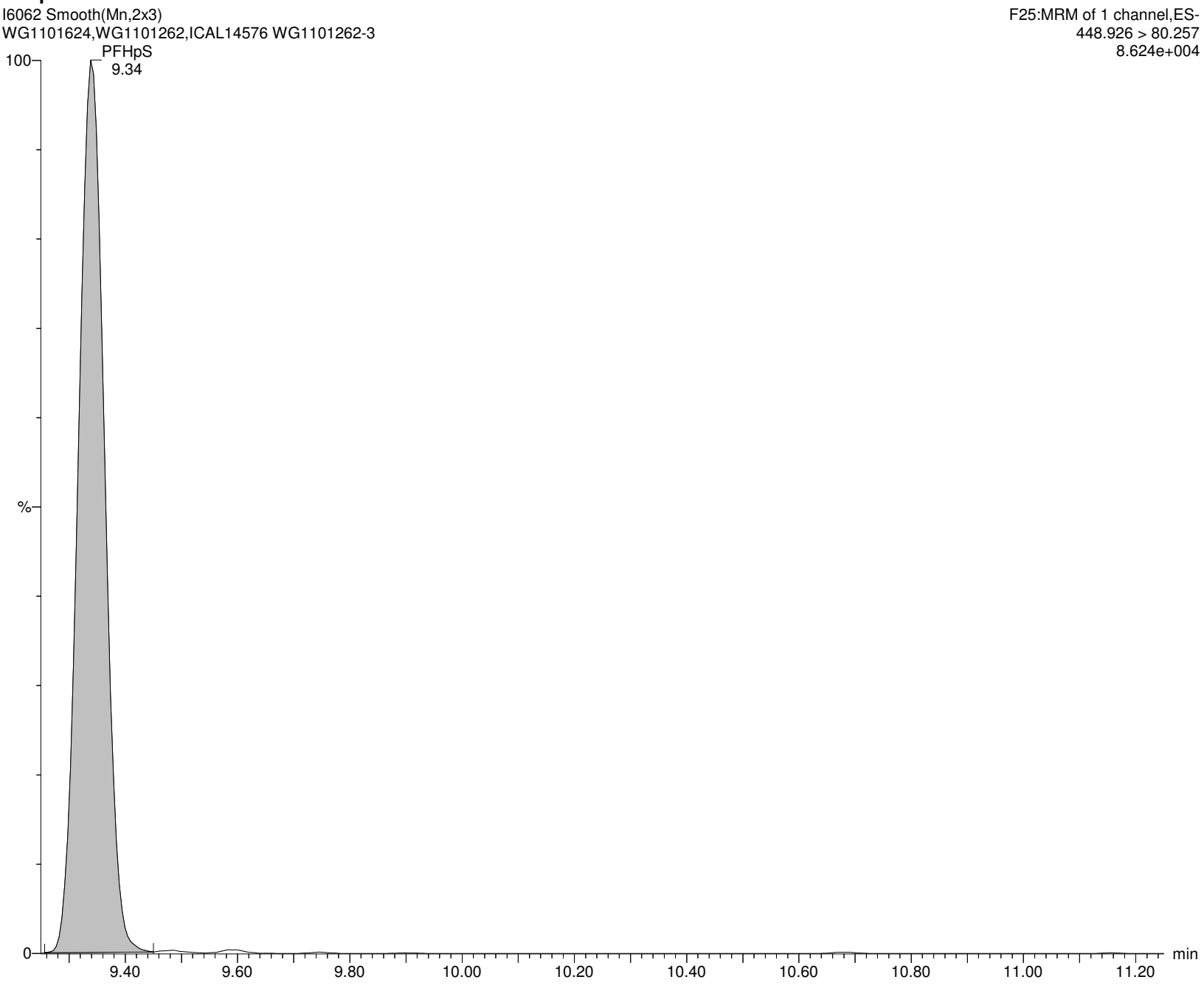

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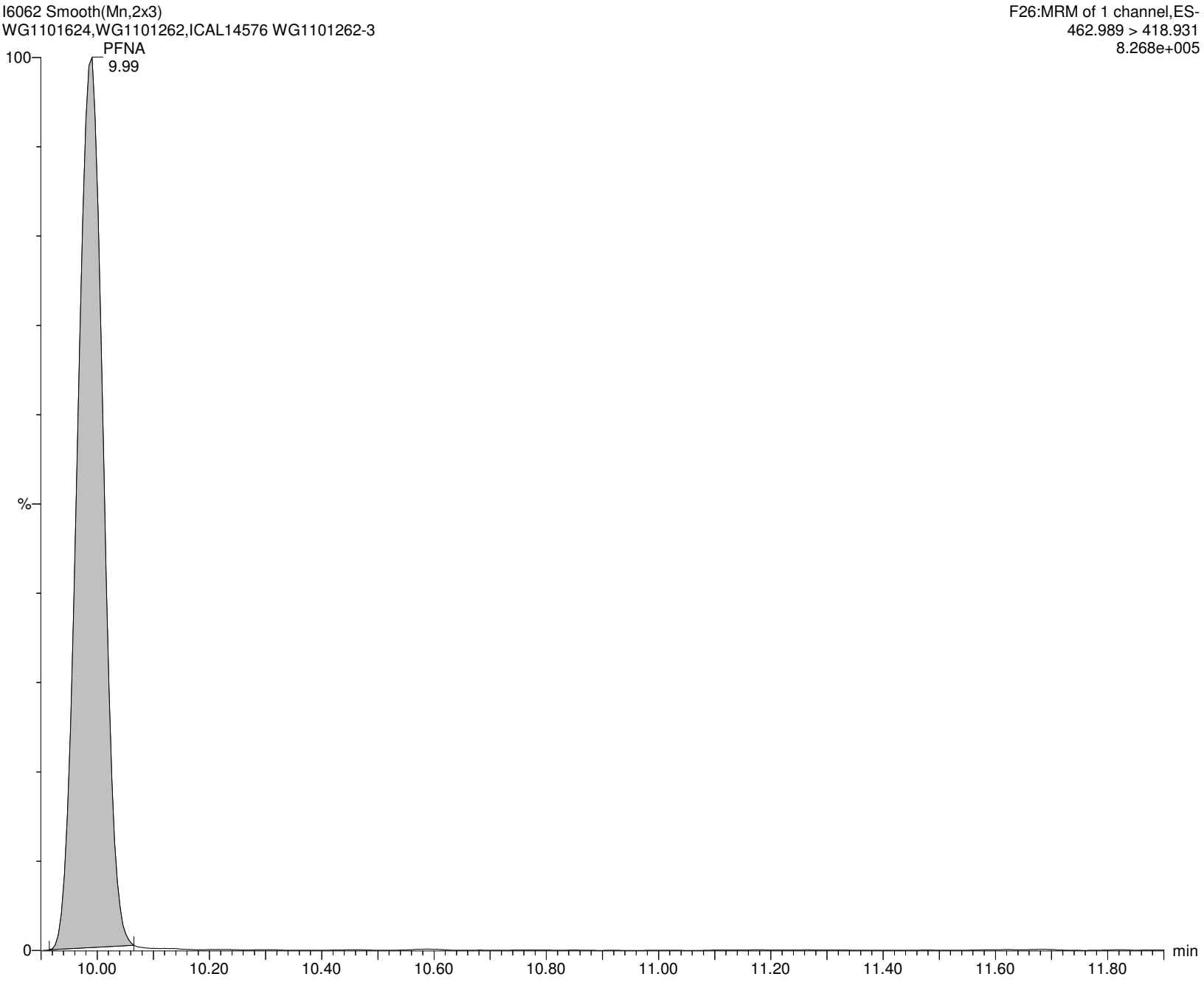

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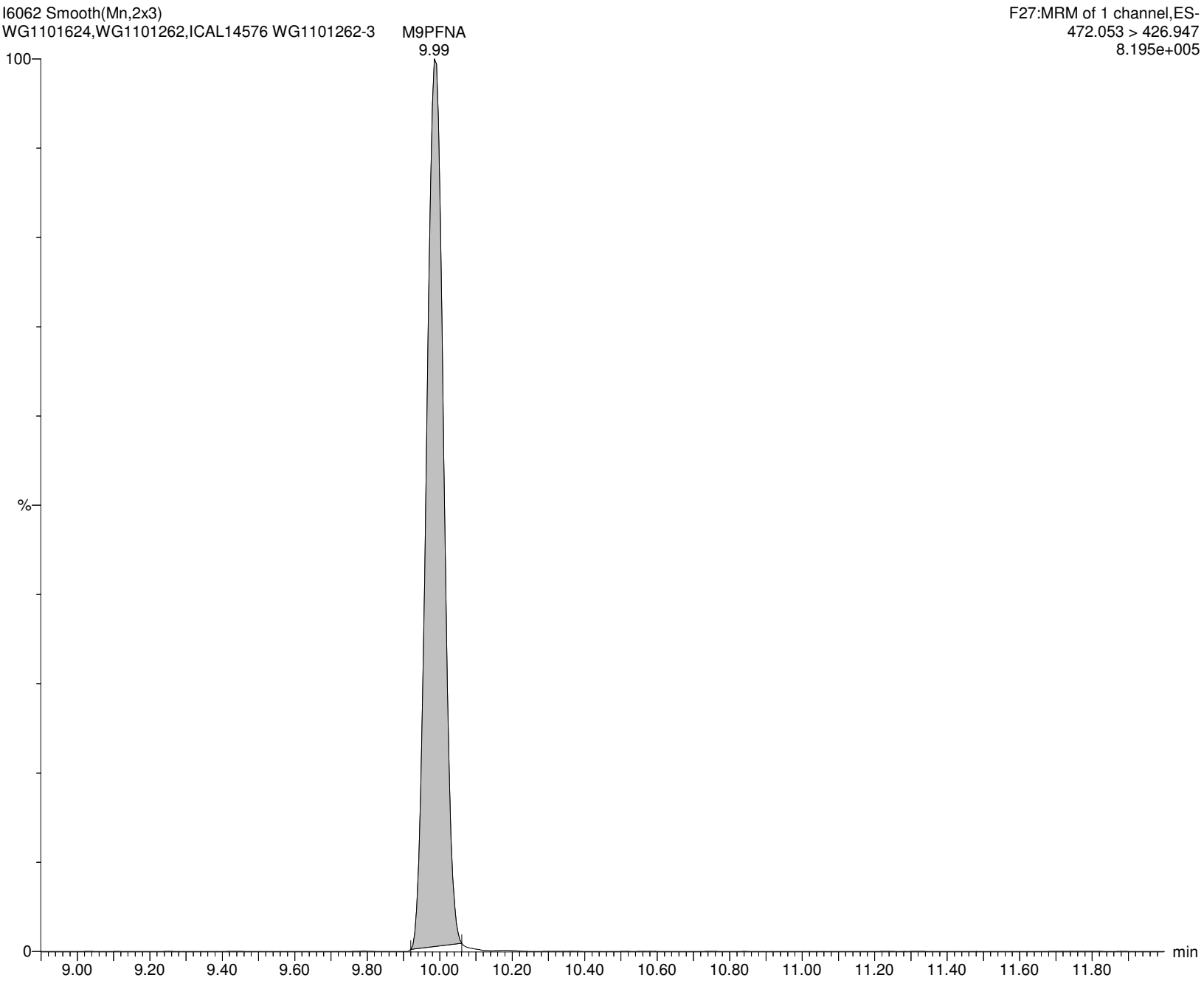

all concentration units in (ng/mL)

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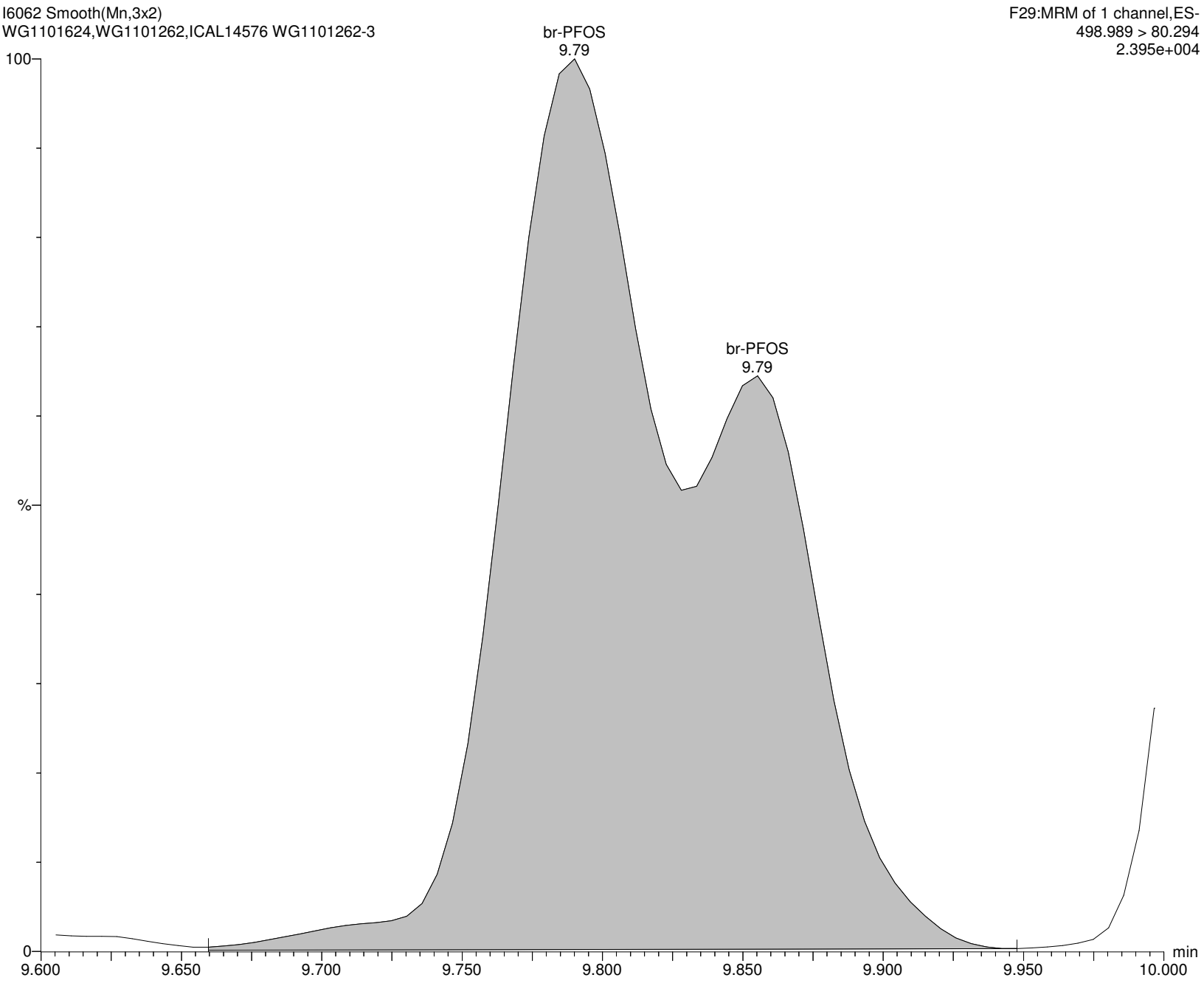

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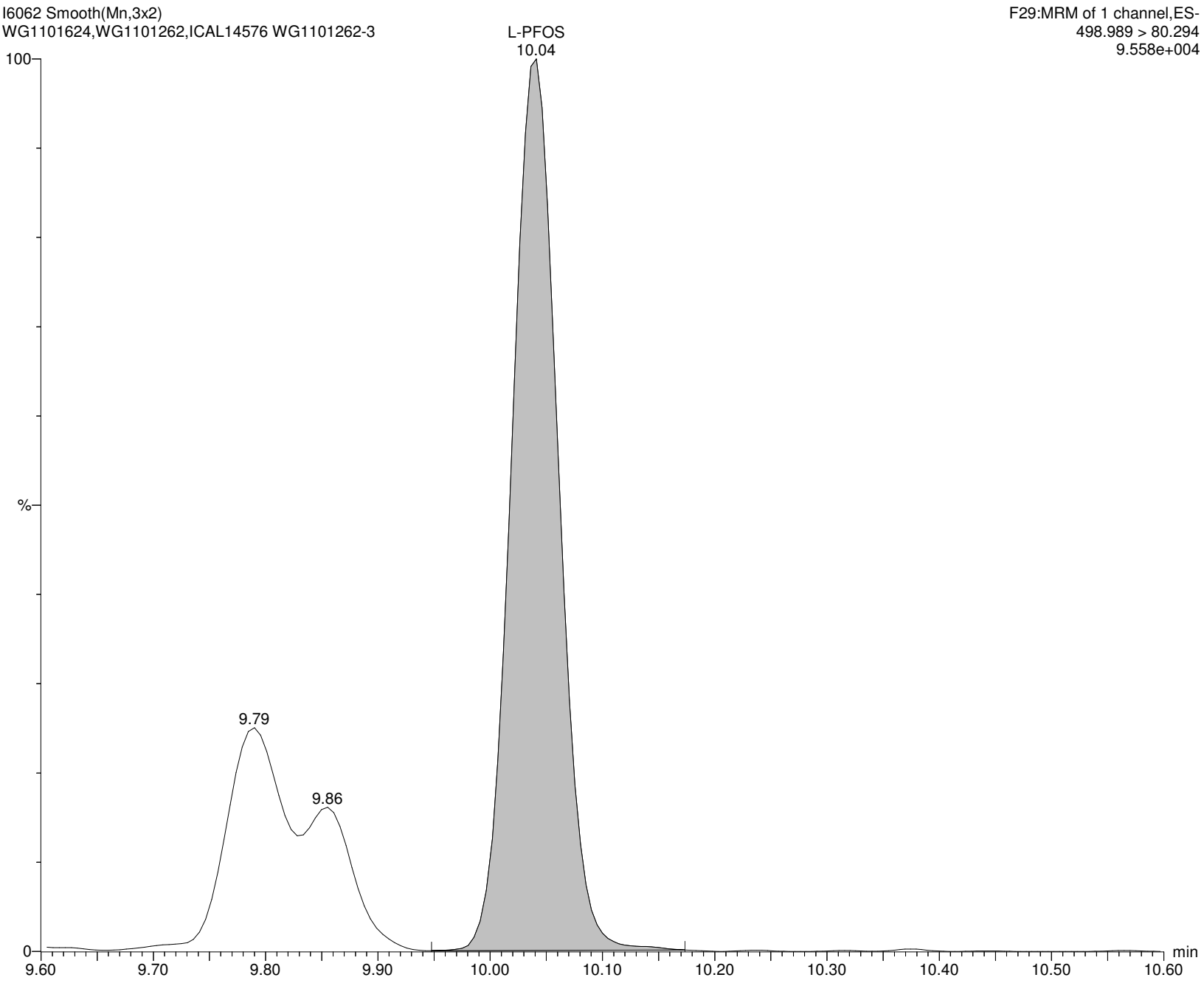
L-PFOS



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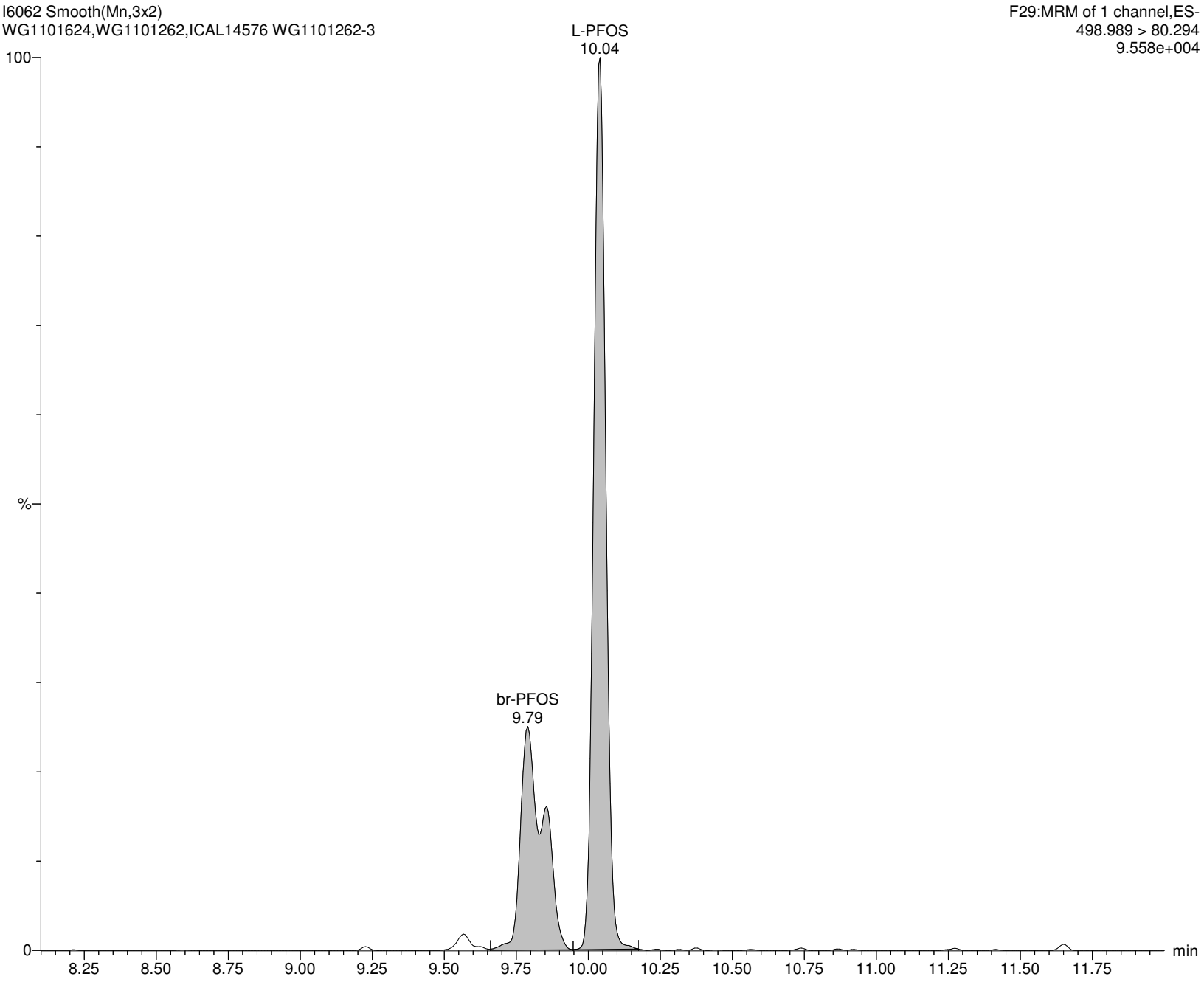
PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:04 Eastern Daylight Time

Name: I6062
ID: WG1101262-3
Date: 29-Mar-2018
Time: 16:55:18
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,4
Instrument: XEVO-TQSmicro#QEA0276
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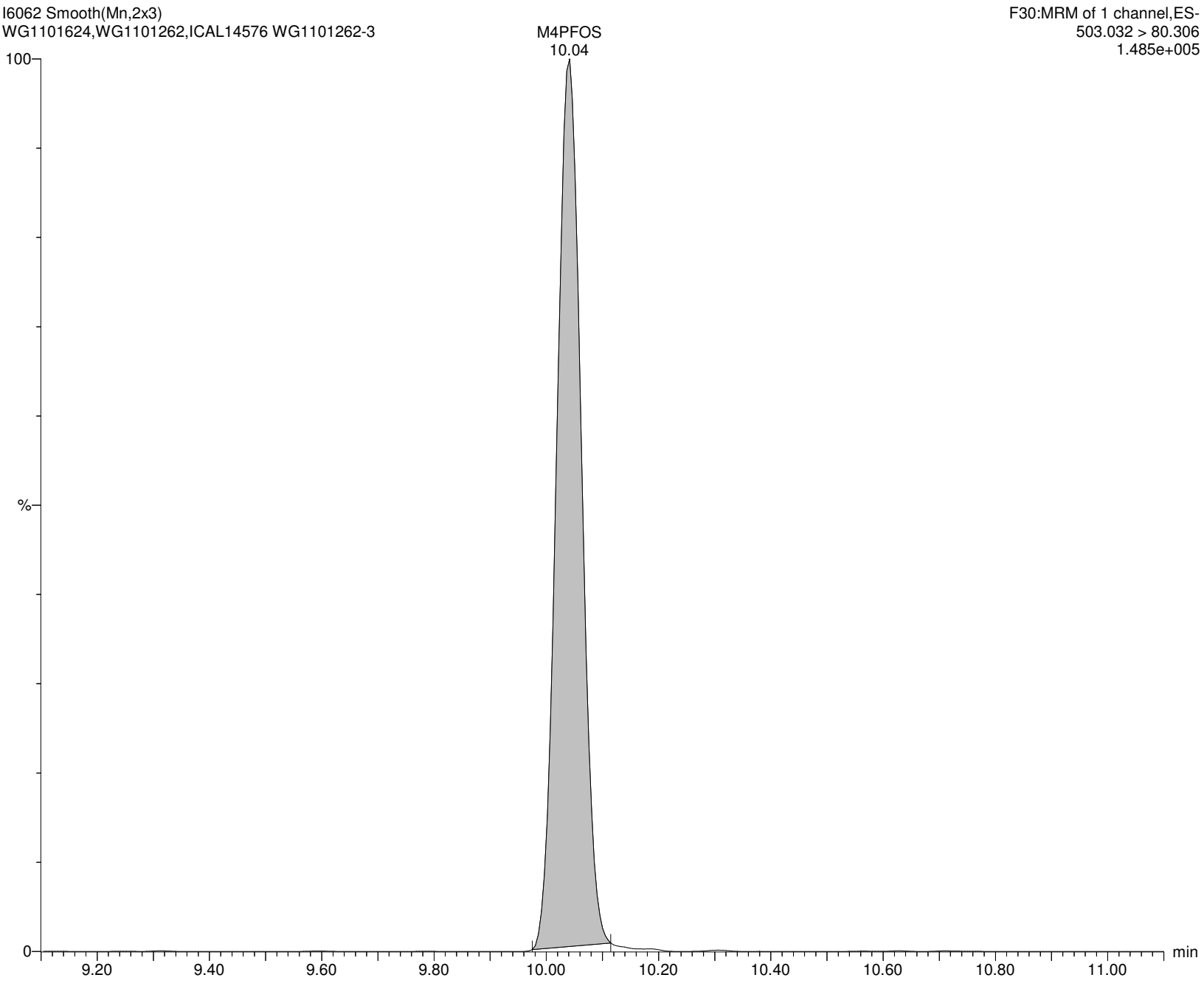
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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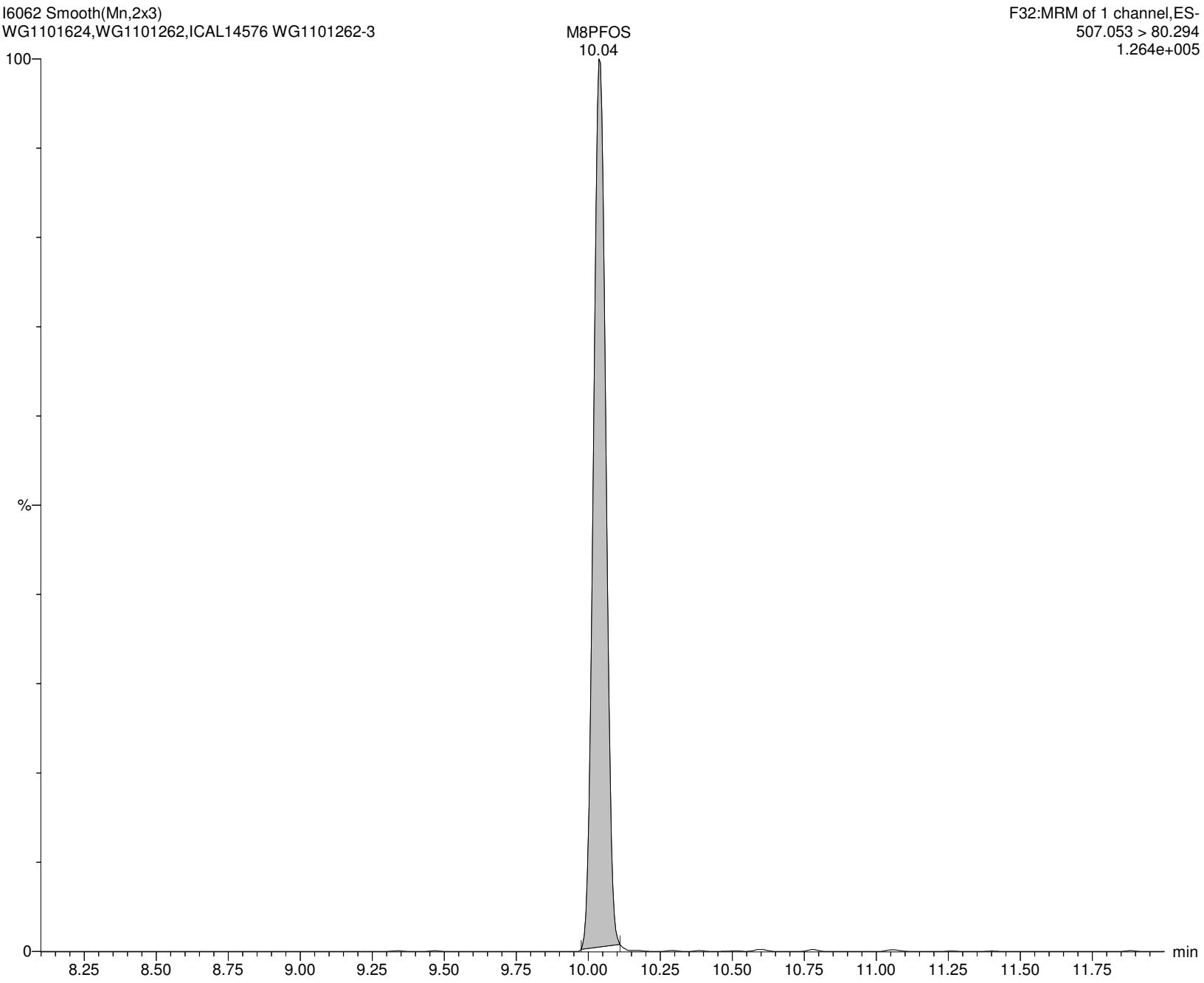

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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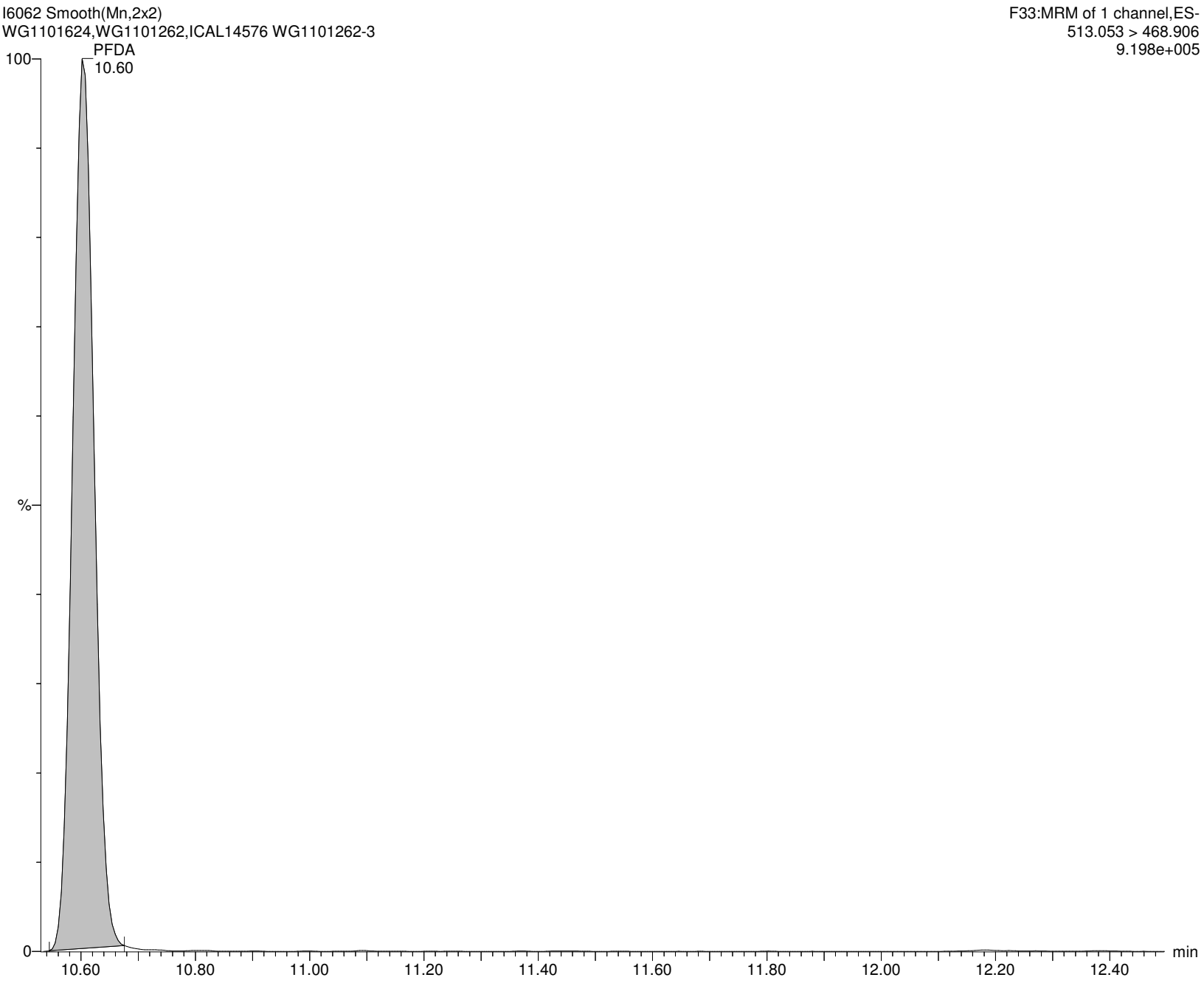

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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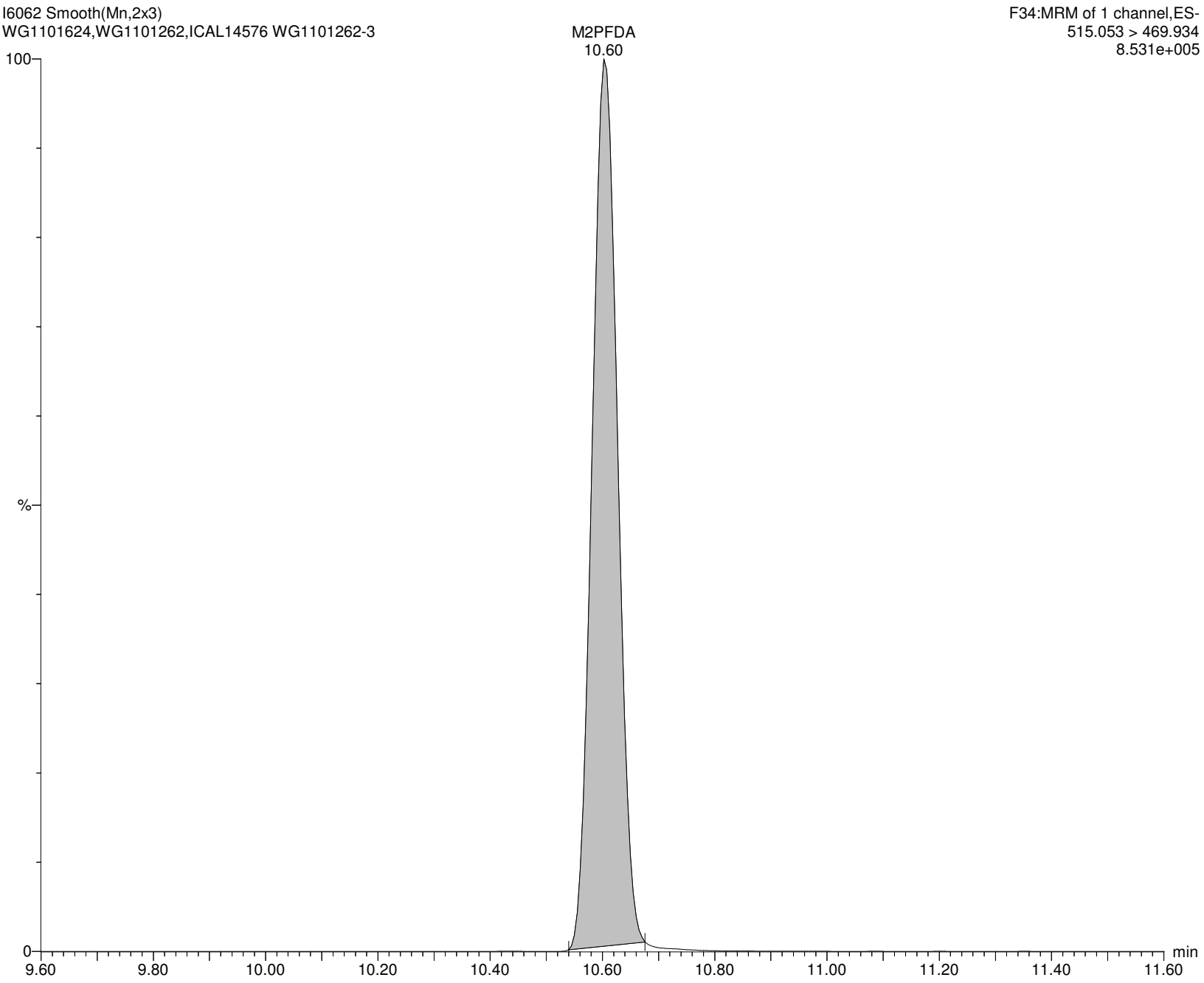

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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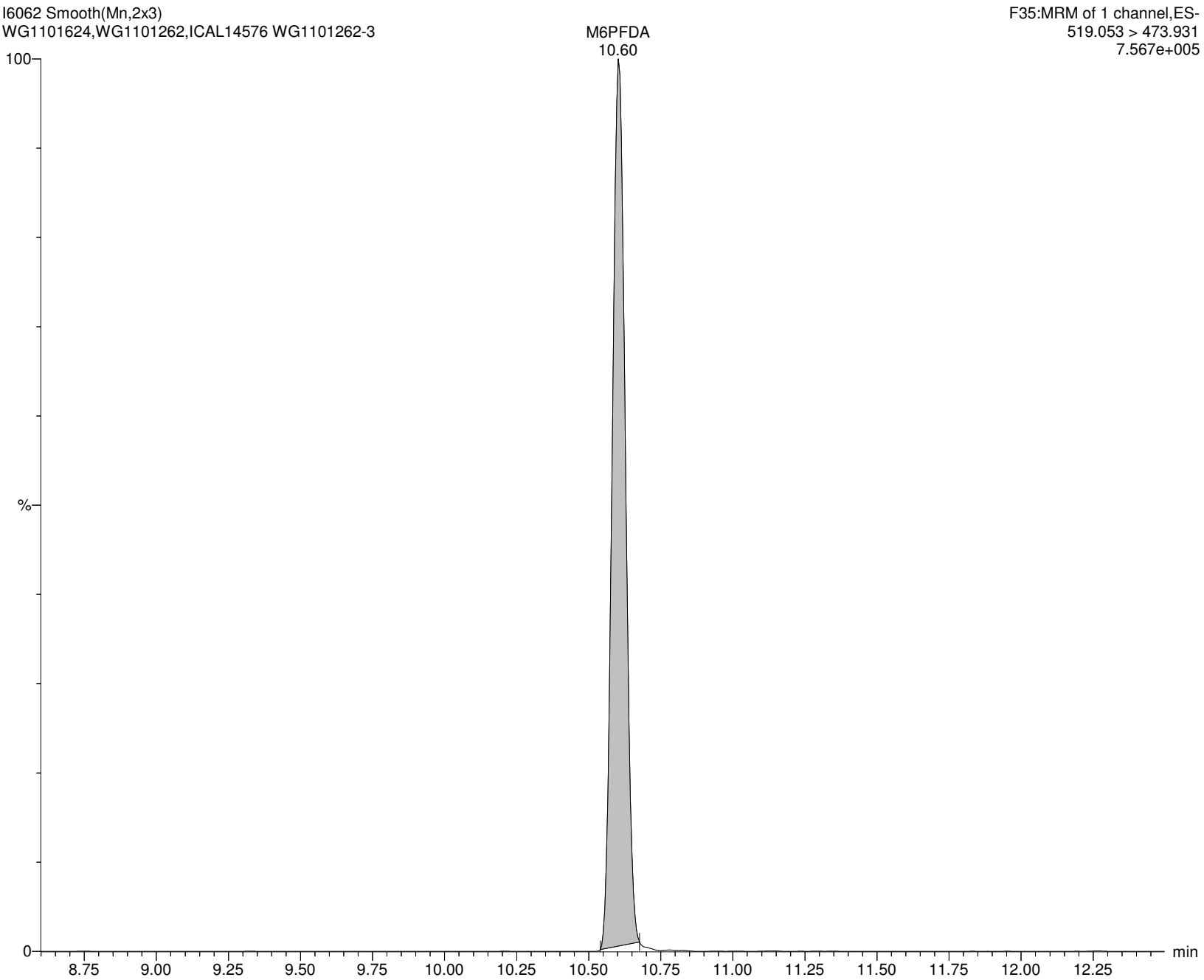

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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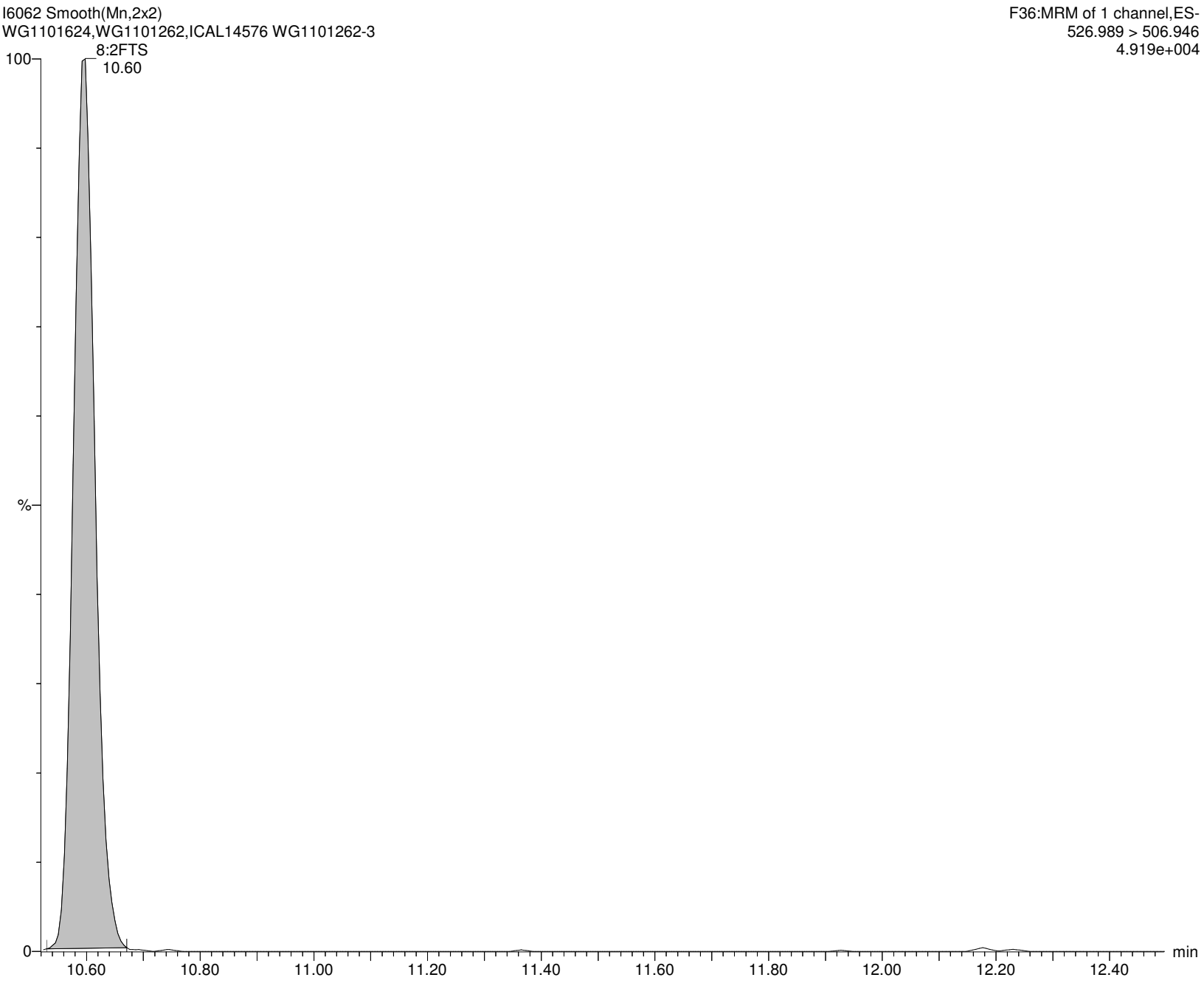
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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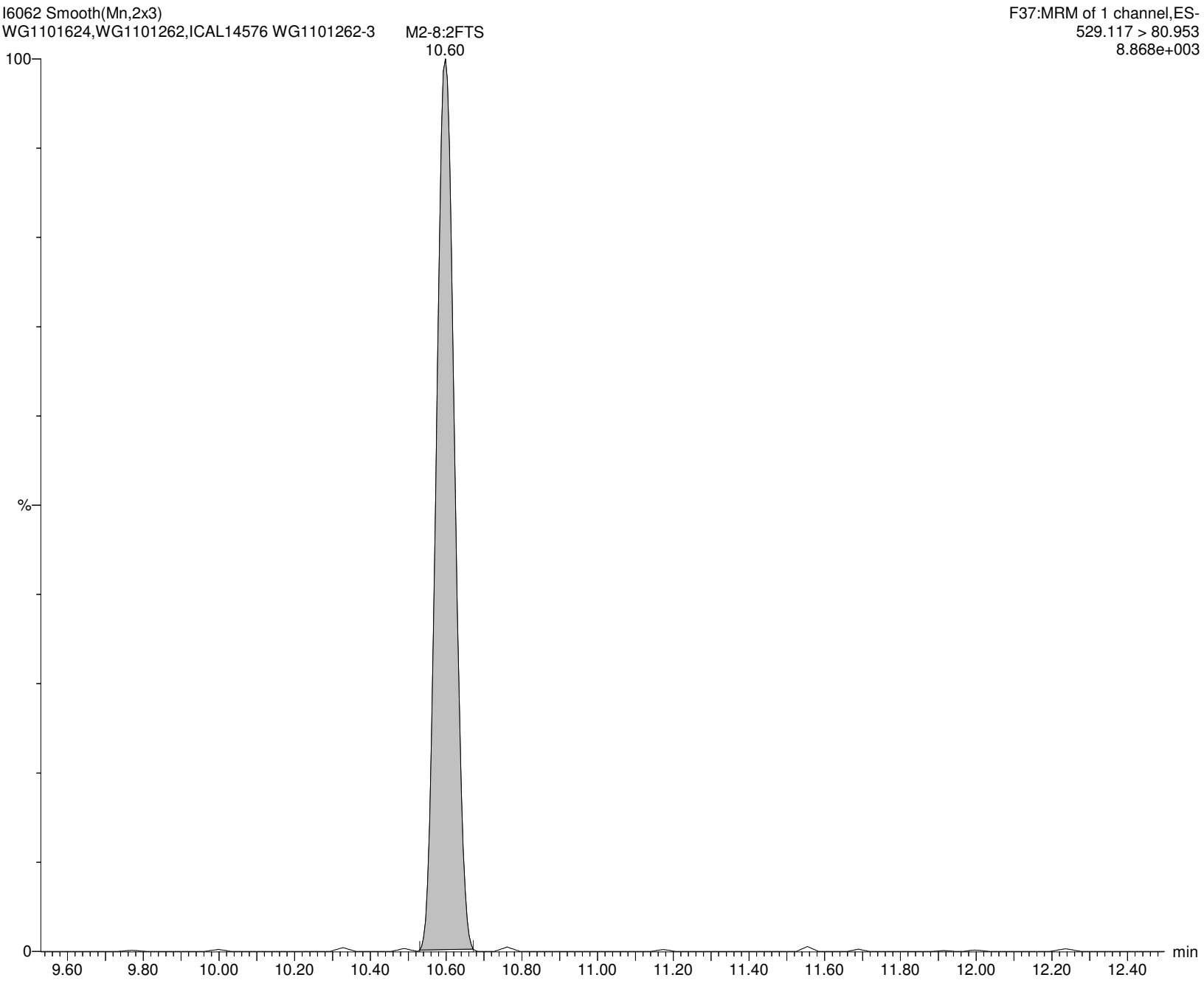
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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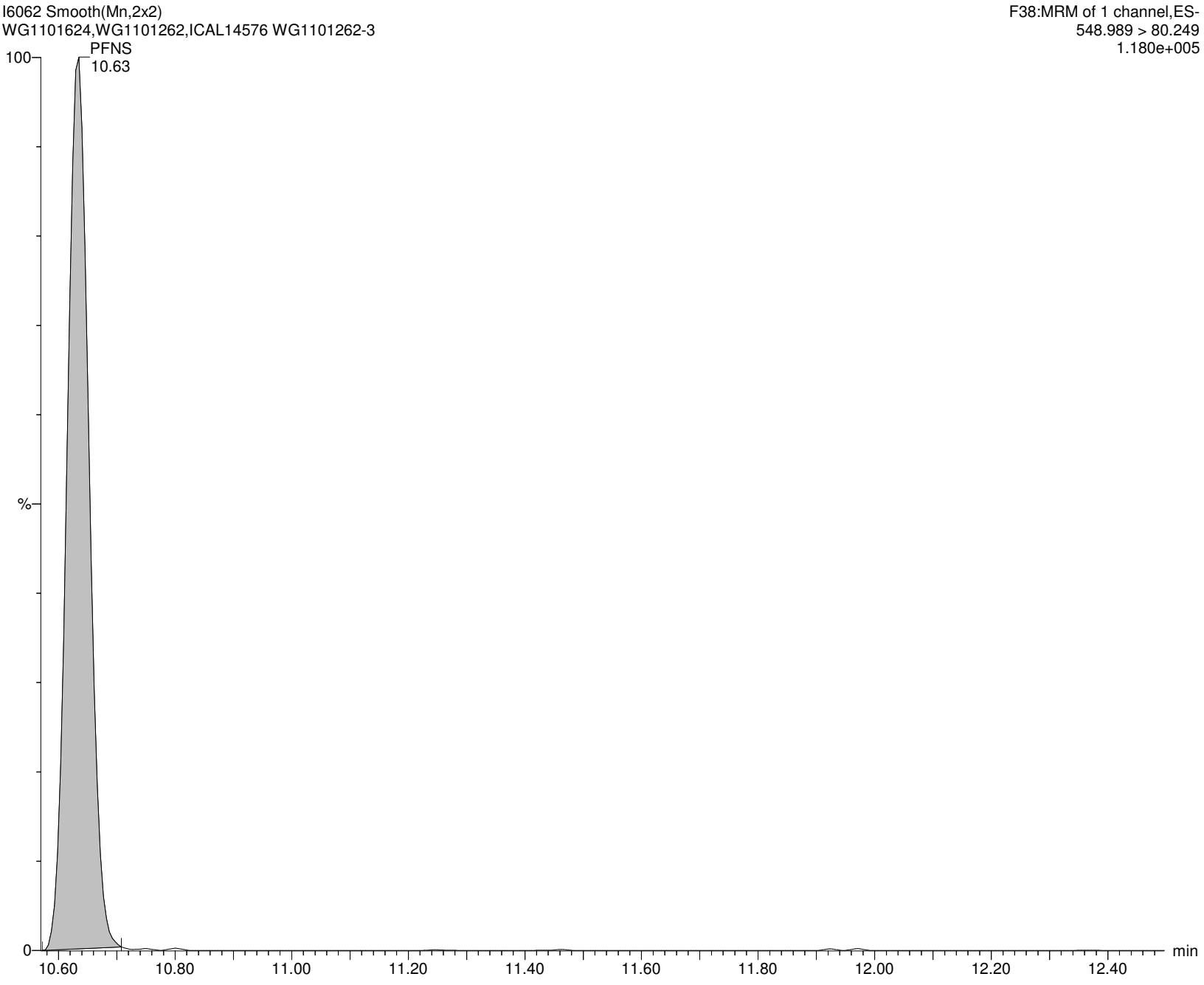

all concentration units in (ng/mL)

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Vial: 2:B,4
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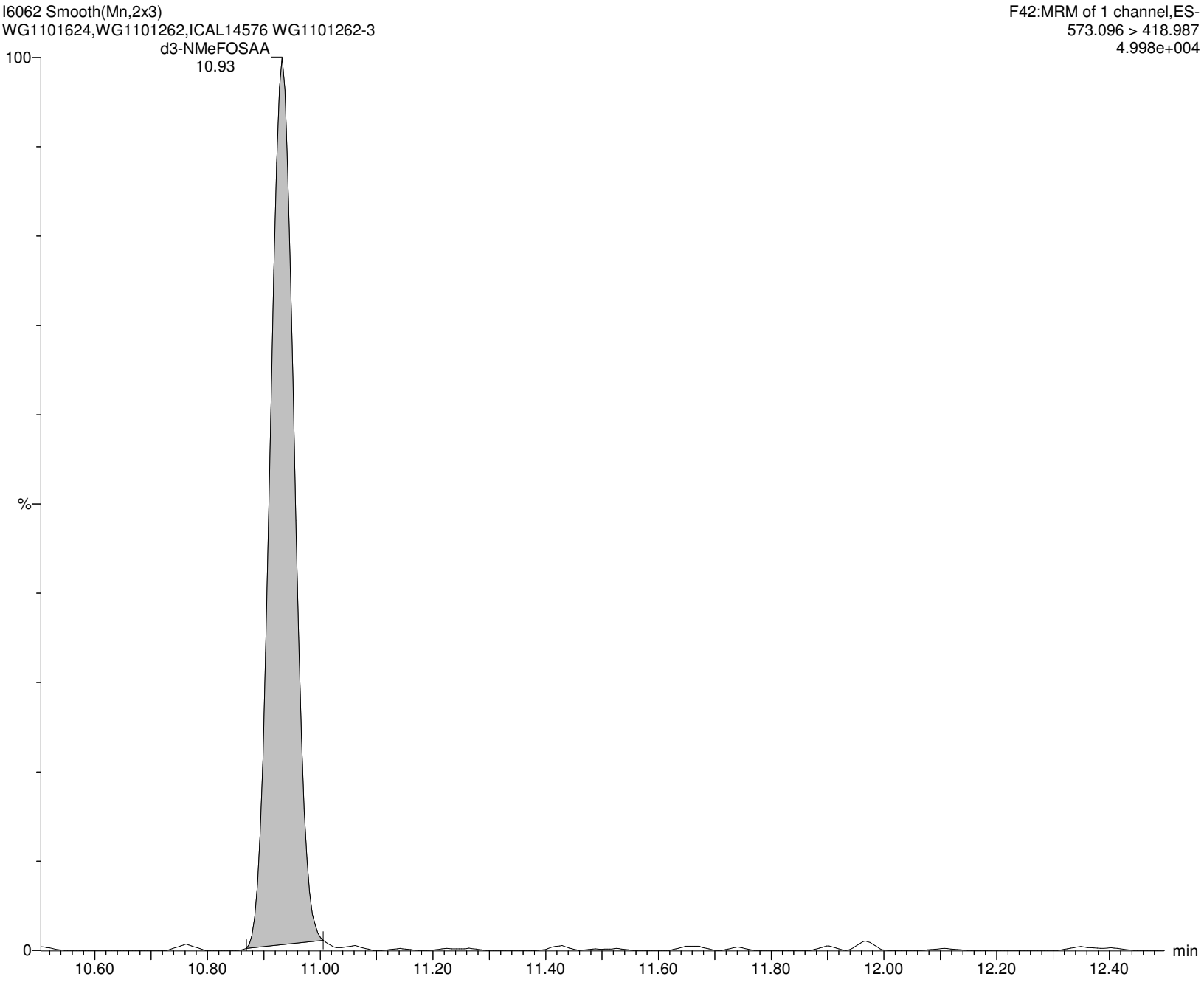
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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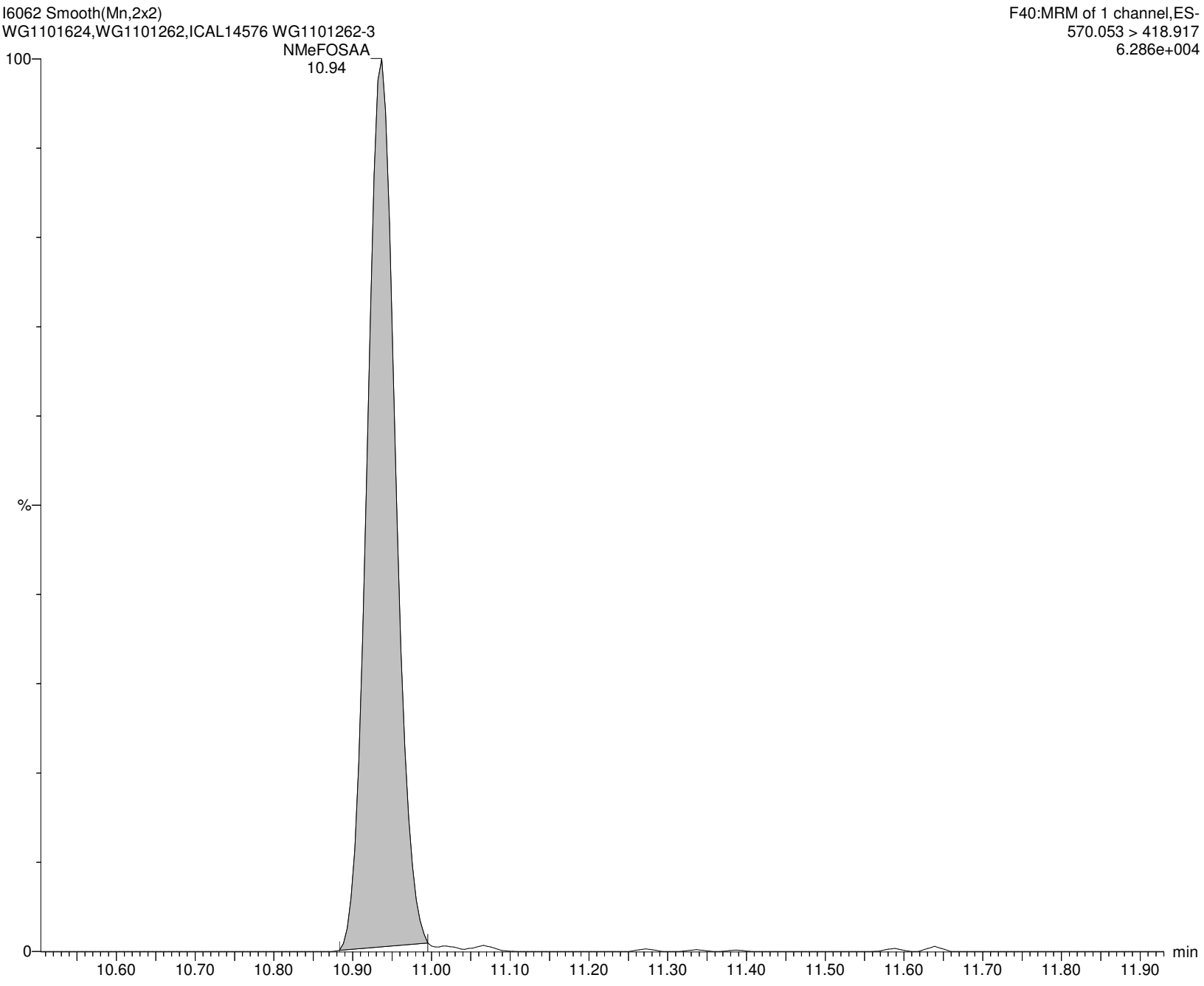

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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User: LCMS01:AJ
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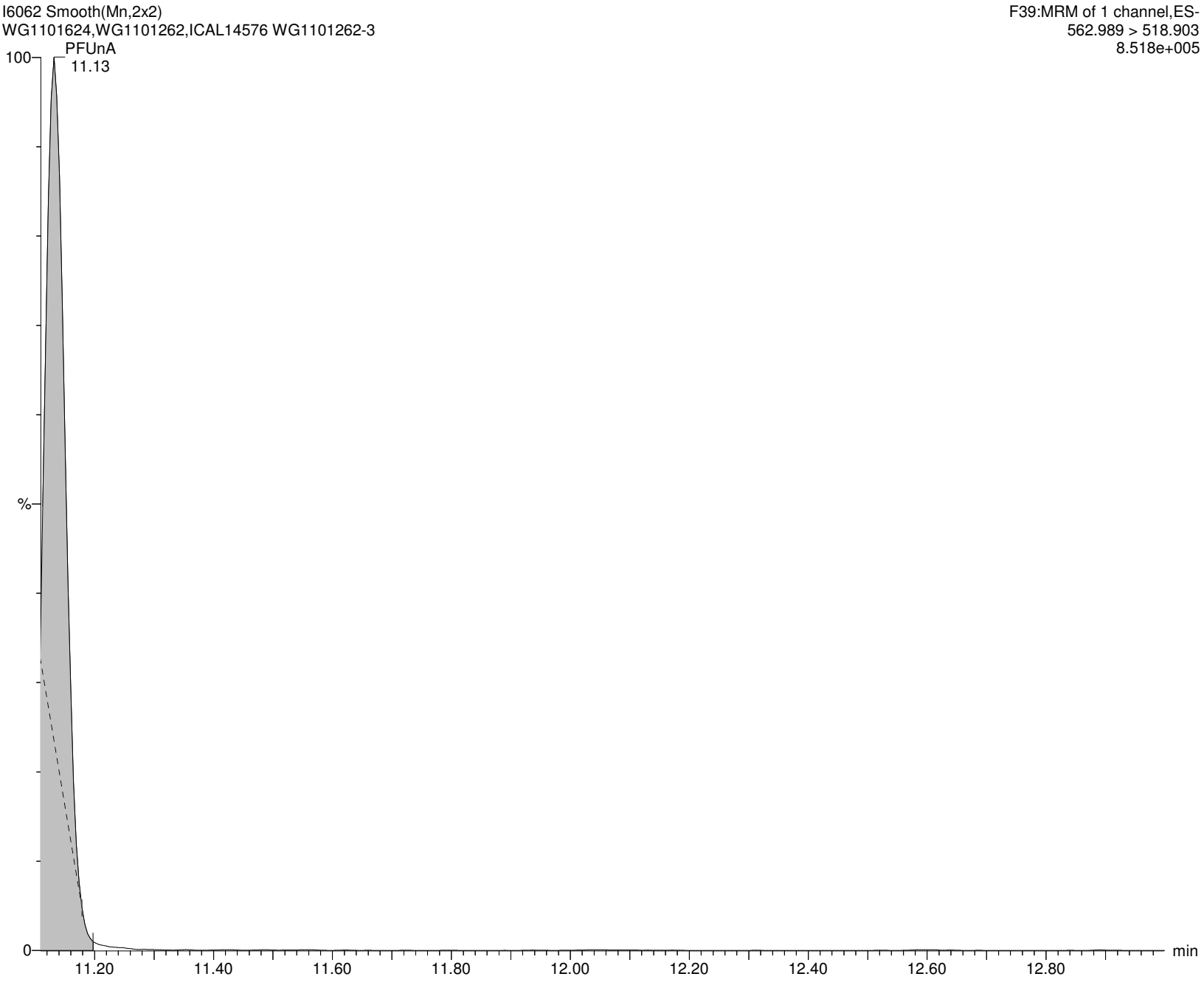

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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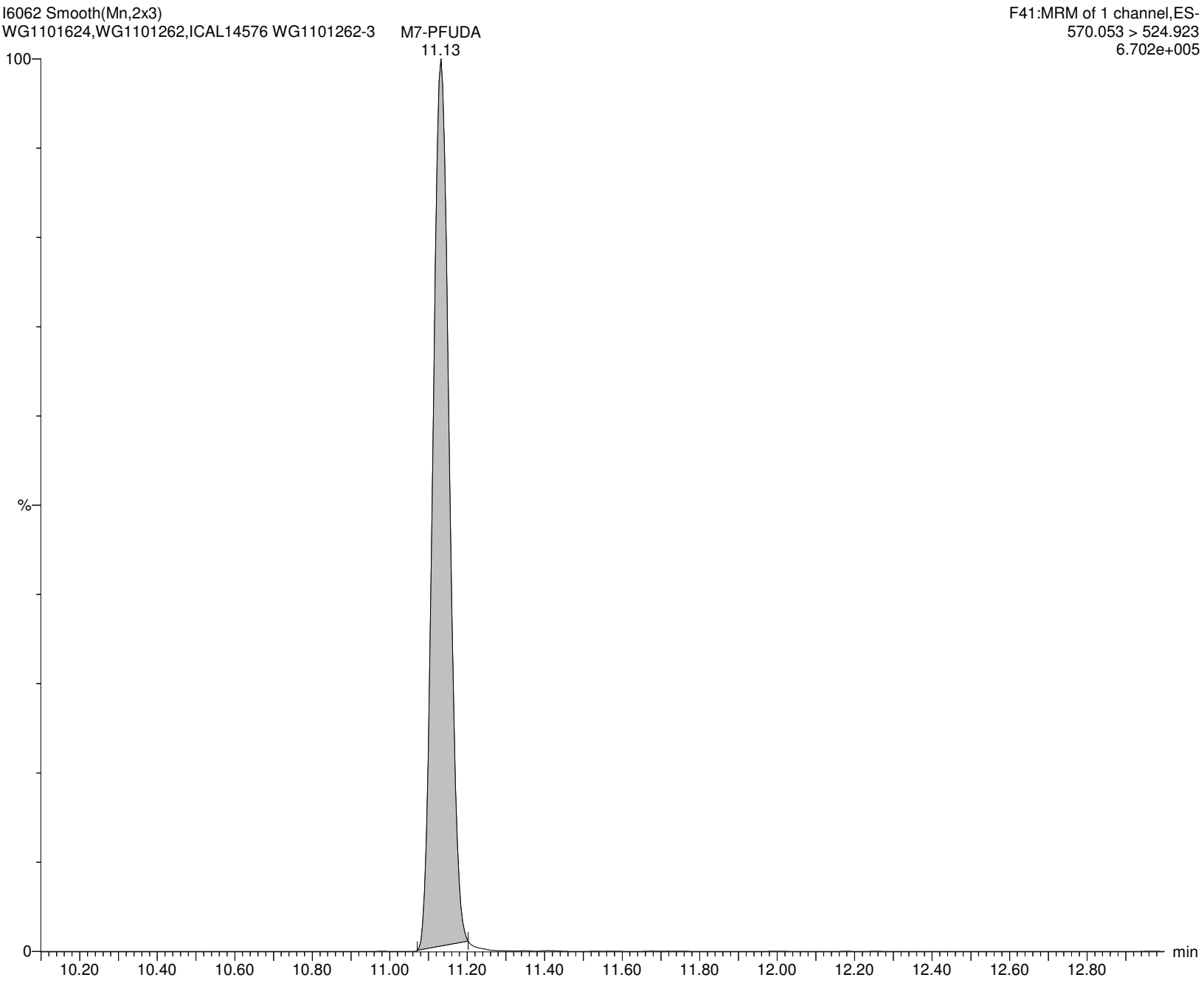
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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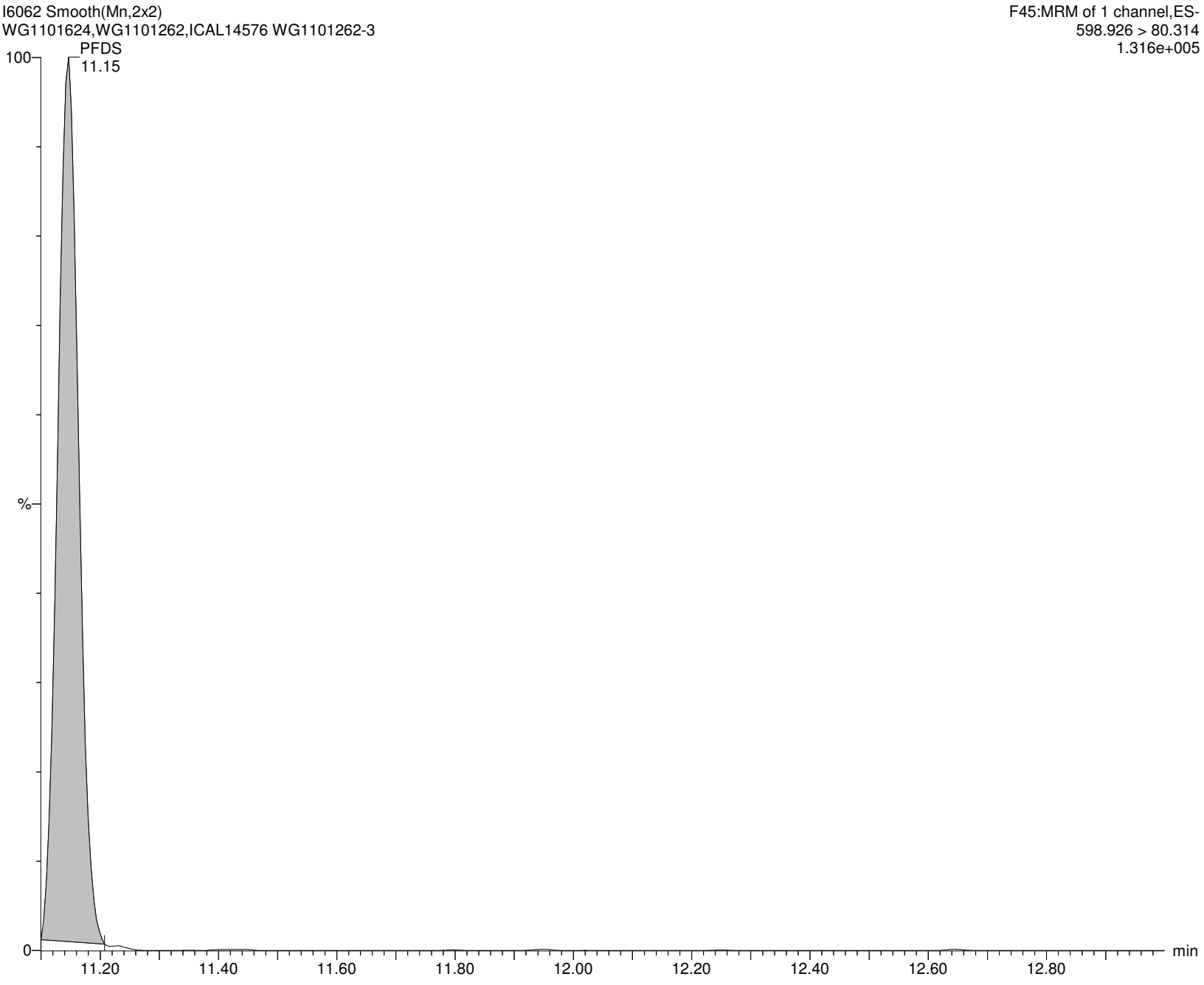

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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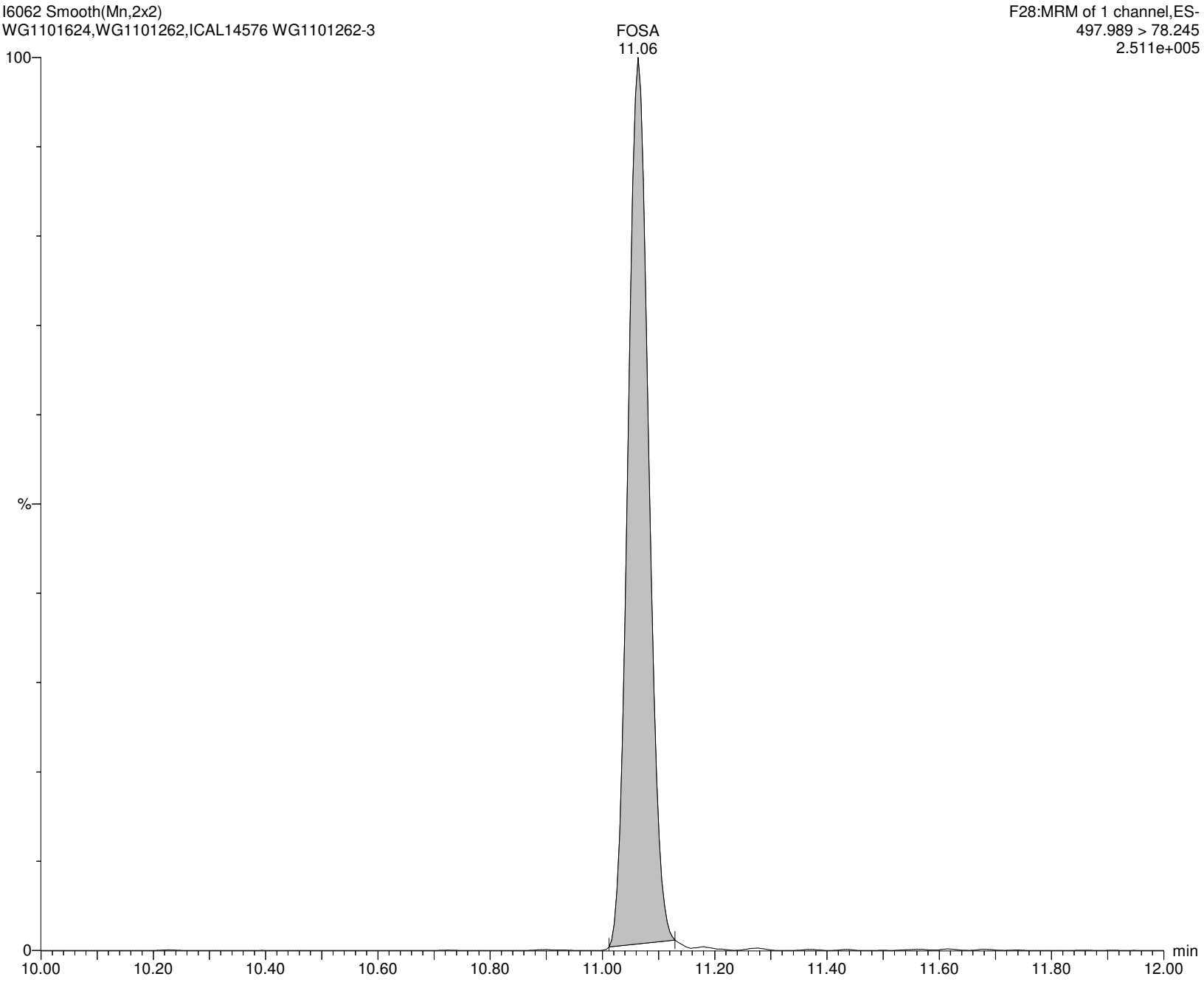

all concentration units in (ng/mL)

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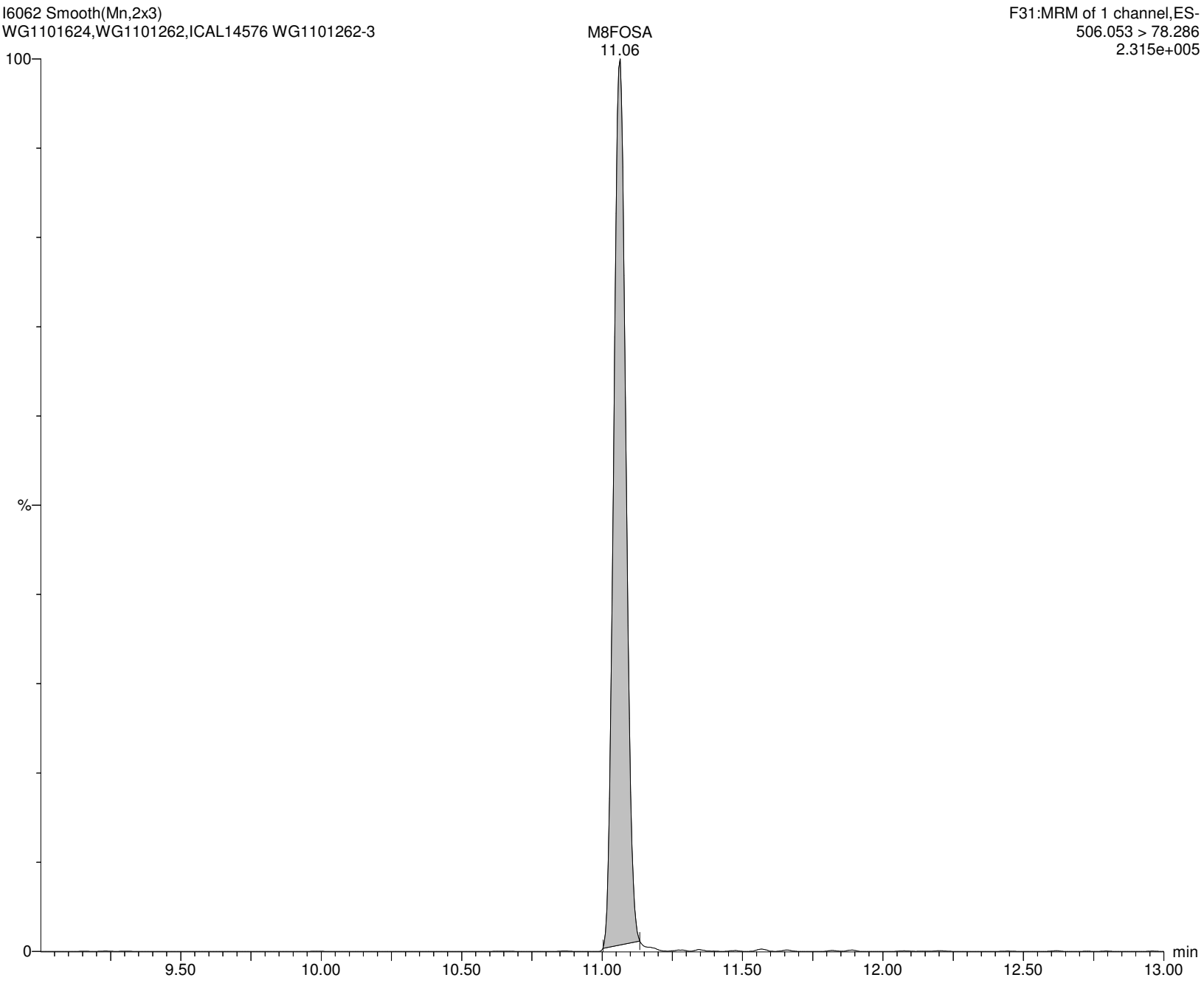

all concentration units in (ng/mL)

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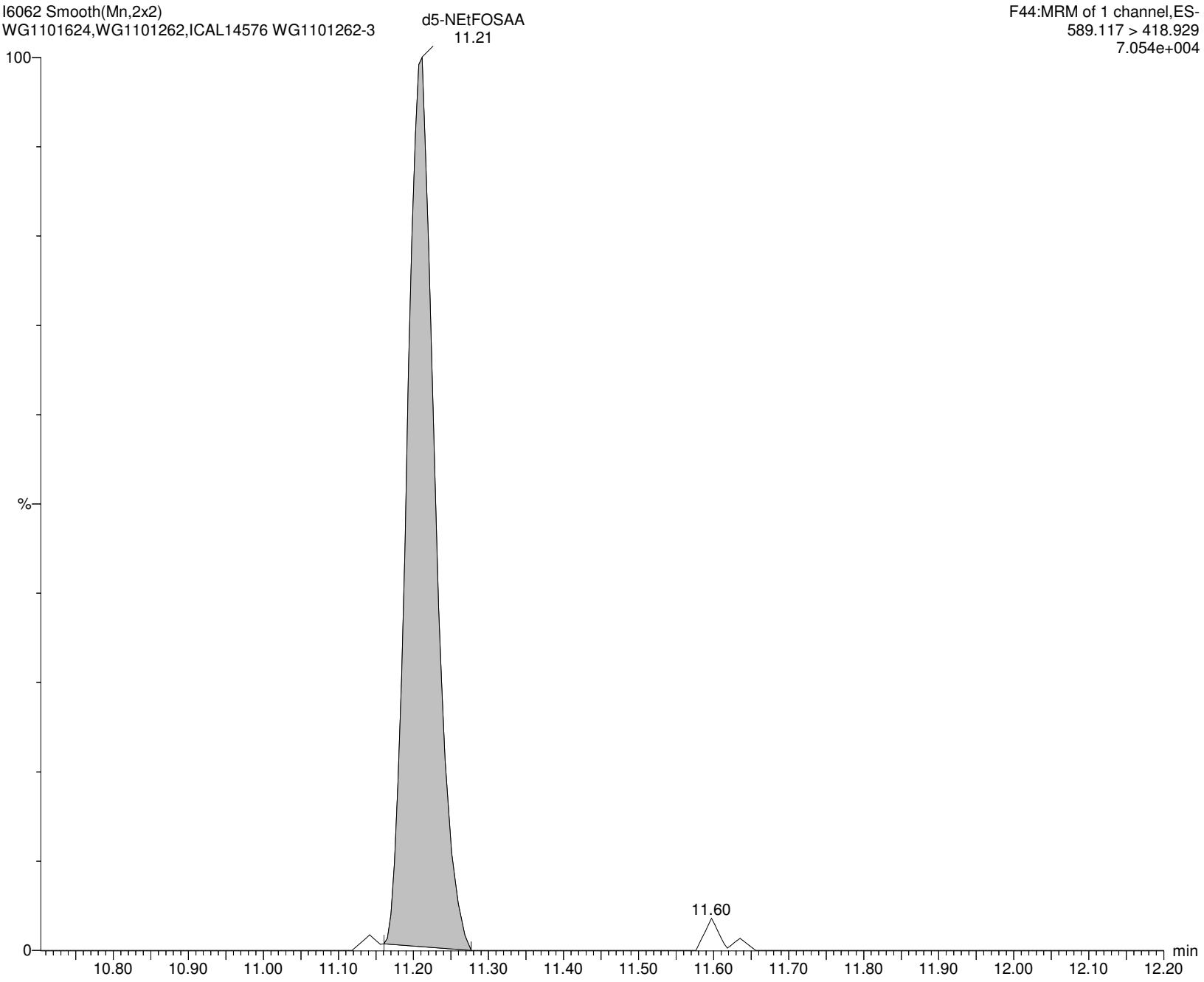
d5-NEtFOSAA



all concentration units in (ng/mL)

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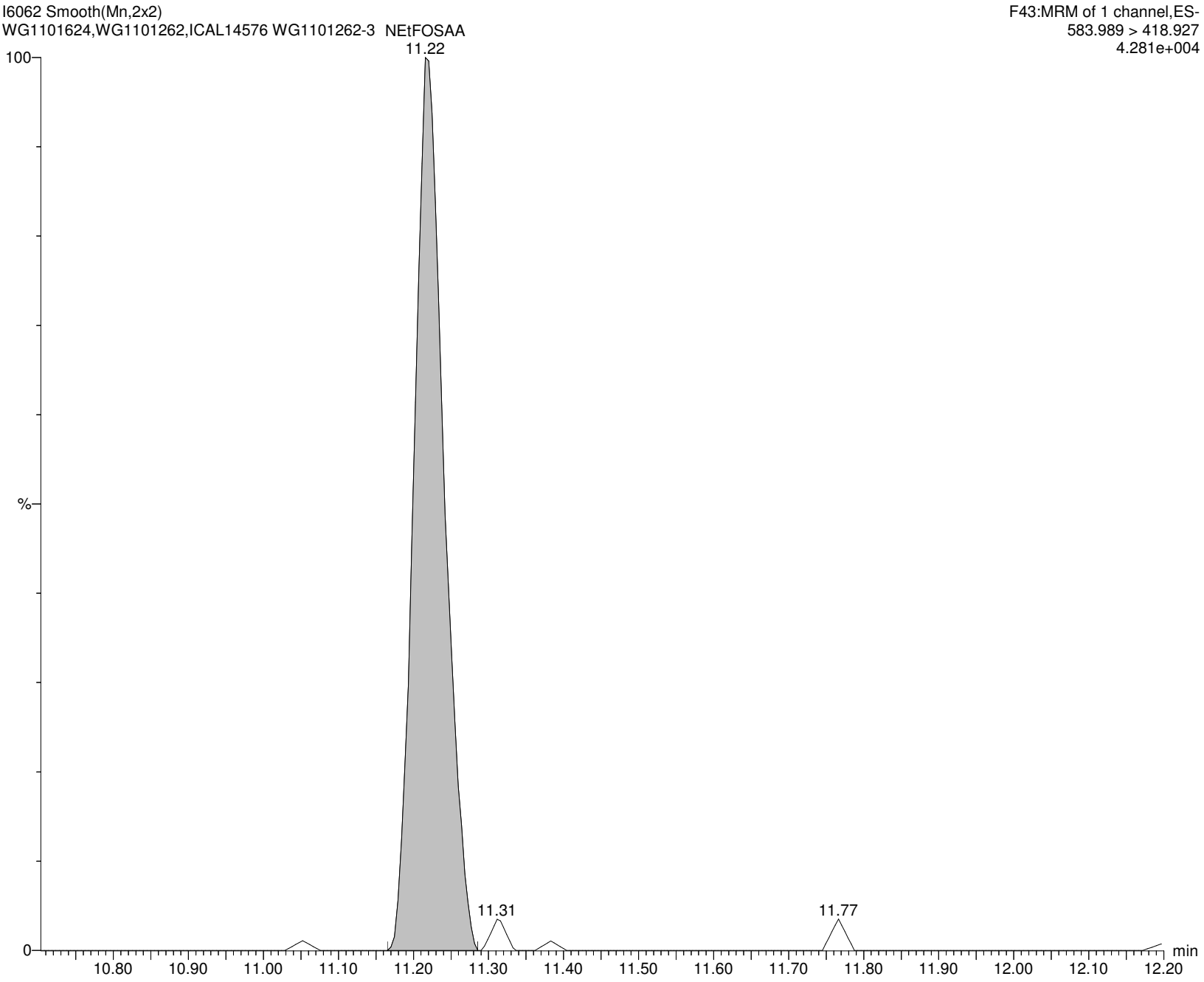
NEtFOSAA



all concentration units in (ng/mL)

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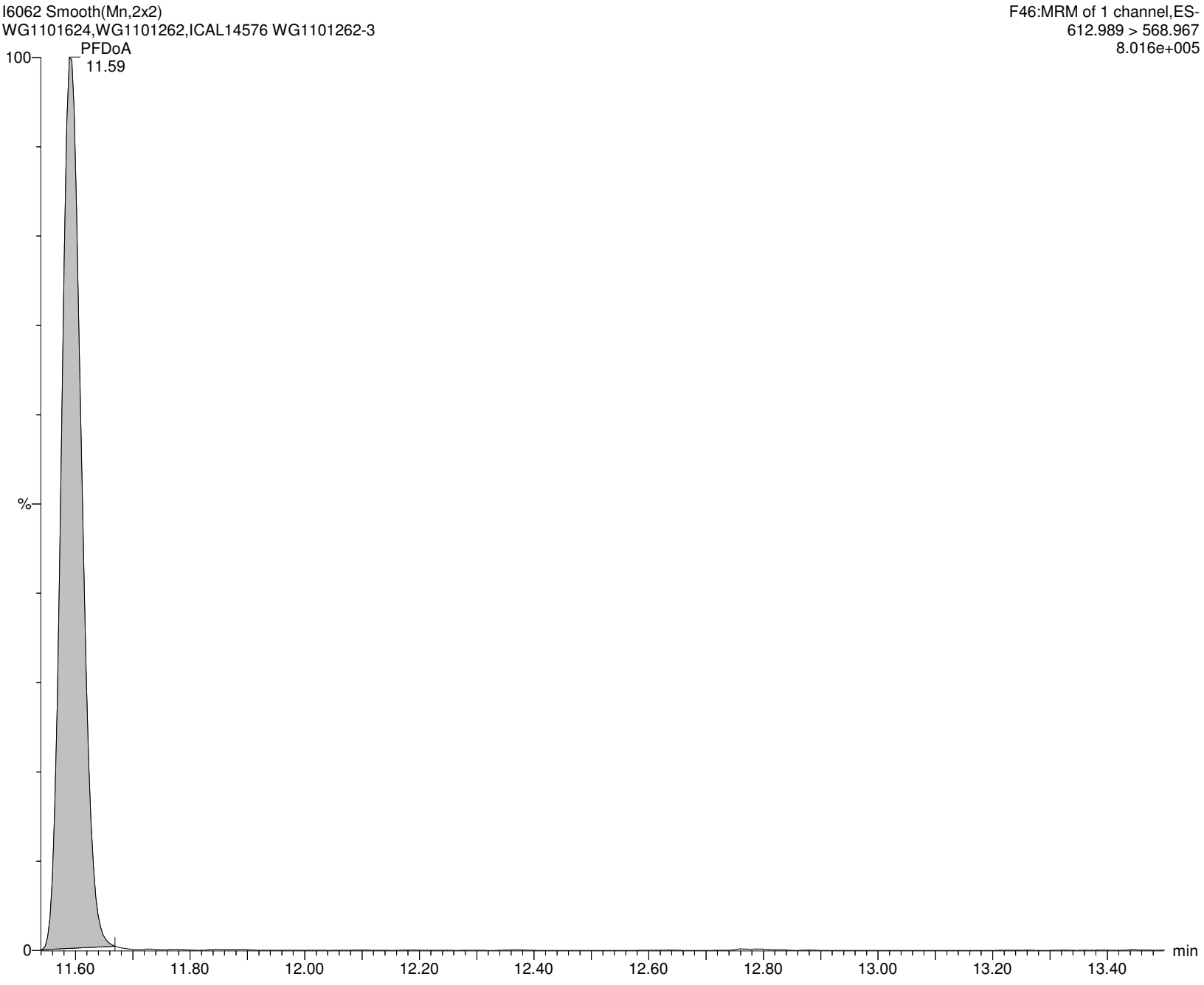

all concentration units in (ng/mL)

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ID: WG1101262-3
Date: 29-Mar-2018
Time: 16:55:18
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,4
Instrument: XEVO-TQSmicro#QEA0276
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Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

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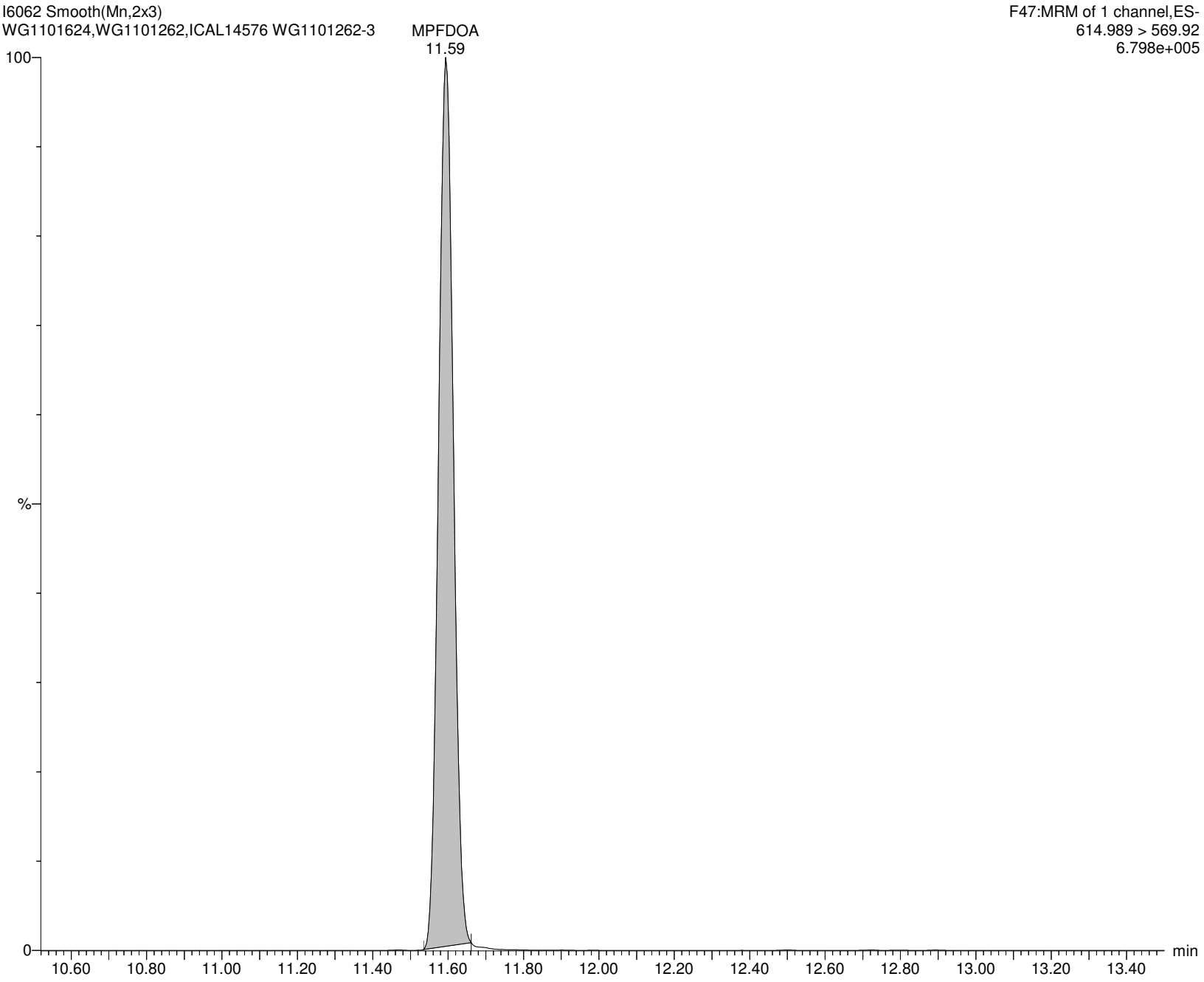

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 17:58:04 Eastern Daylight Time

Name: I6062
ID: WG1101262-3
Date: 29-Mar-2018
Time: 16:55:18
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User: LCMS01:AJ
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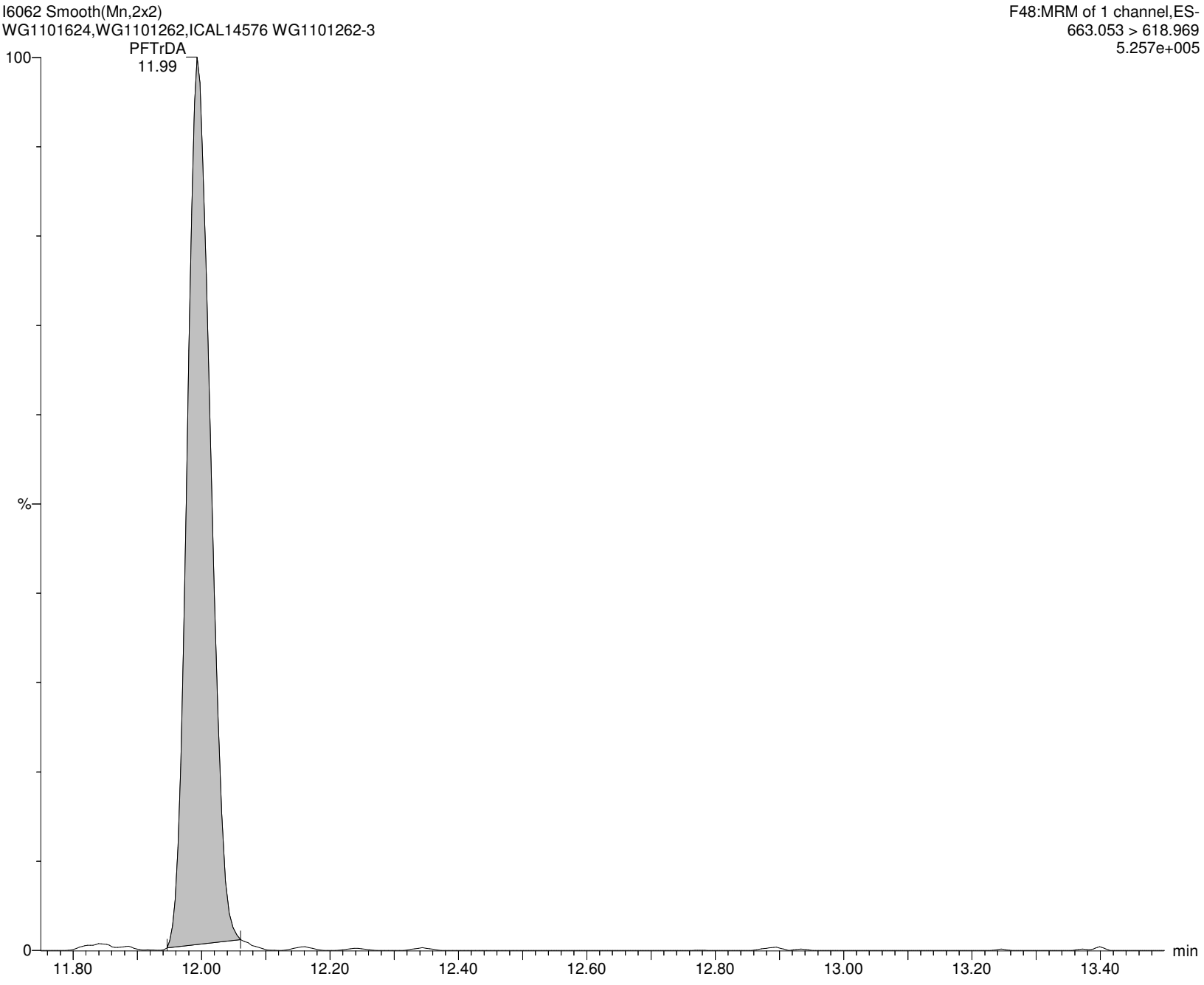

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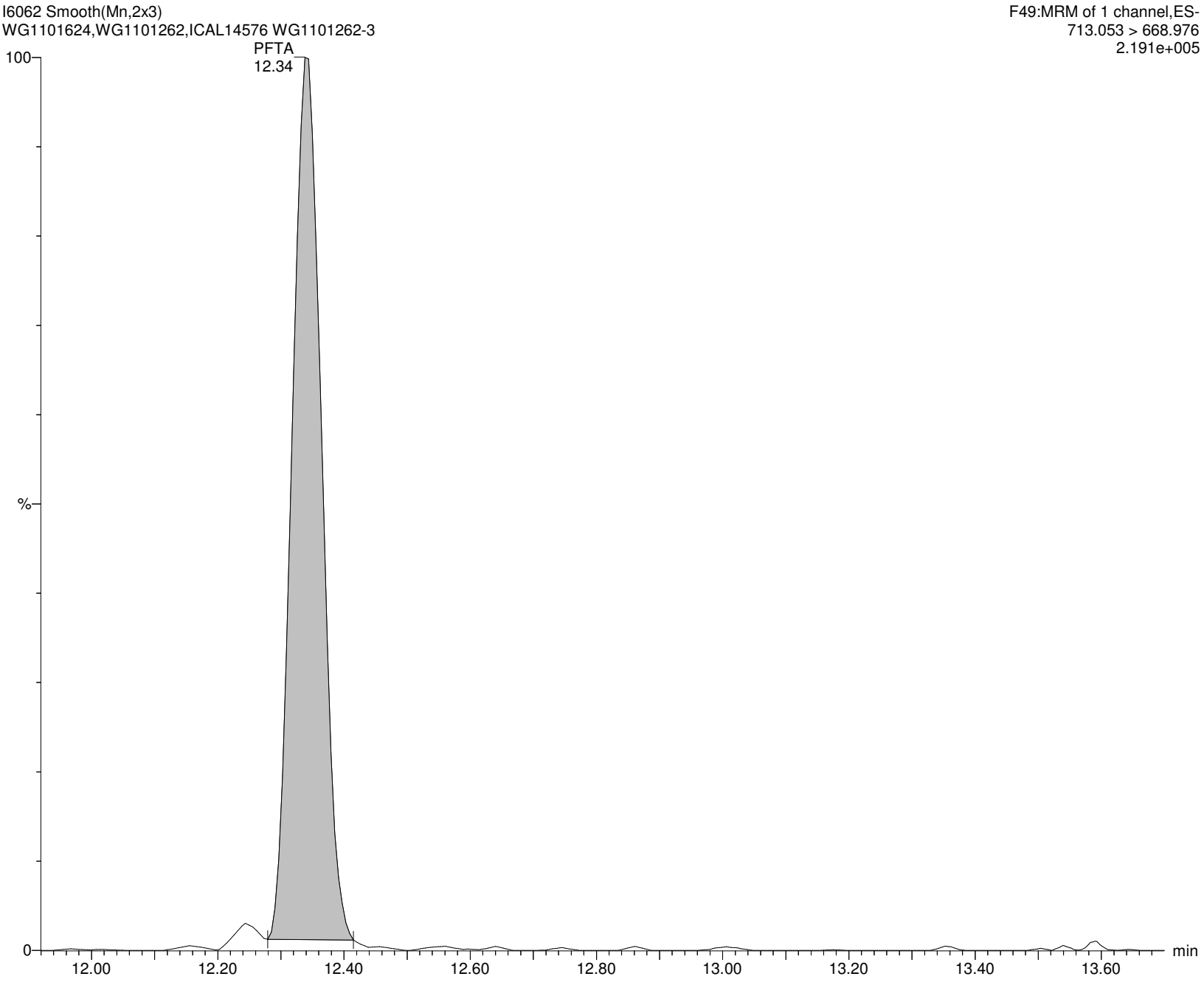

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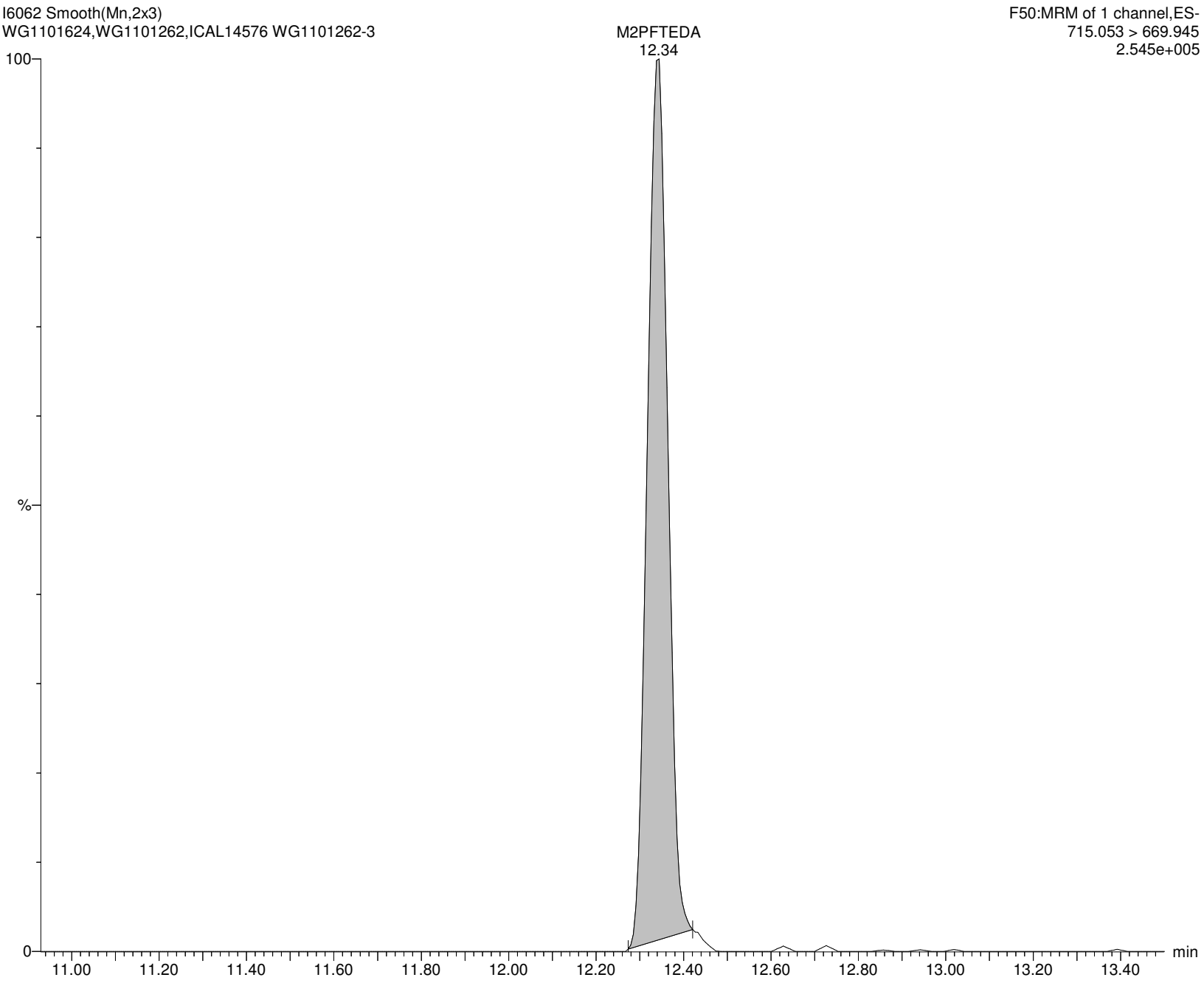
M2PFTEDA



all concentration units in (ng/mL)

Sample Utilized
For QC

MISSING PAGE

Duplicate Raw Data

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Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:33:11 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: WG1101262-4
Name: I6064
Date: 29-Mar-2018
Time: 17:28:20
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
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Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBS	375-73-5		298.989 > 80.295			ND		na	
2	M3PFBS	INT STD	5.80	301.989 > 80.254	7716		6.043		na	60.4
3	4:2FTS	757124-72-4		326.926 > 306.957			ND		na	
4	M2-4:2FTS	INT STD	6.97	328.989 > 80.973	866		5.255		na	52.6
5	PFHxA	307-24-4		312.989 > 269.028			ND		na	
6	M5PFHxA	INT STD	7.04	317.989 > 273.045	45935		6.387		na	63.9
7	PFPeS	2706-91-4		348.926 > 80.251			ND		na	
8	PFHpA	375-85-9		362.926 > 319.014			ND		na	
9	M4PFHpA	INT STD	8.31	366.926 > 321.979	53387		6.536		na	65.4
10	br-PFHxS	355-46-4	8.29	398.926 > 80.295	17		0.023		na	
11	L-PFHxS	355-46-4	8.47	398.926 > 80.295	29		0.040		na	
12	PFHxS	355-46-4		398.926 > 80.295	46		0.063		na	
13	M3PFHxS	INT STD	8.47	401.926 > 80.317	7741		6.591		na	65.9
14	br-PFOA	335-67-1	9.04	412.989 > 368.9	89		0.017		na	
15	L-PFOA	335-67-1	9.24	412.989 > 368.9	577		0.111		na	
16	M2PFOA	INT STD	9.24	415.032 > 369.968	74717		12.074		na	120.7
17	PFOA	335-67-1		412.989 > 368.9	666		0.129		na	
18	M8PFOA	INT STD	9.24	420.989 > 375.979	49959		6.884		na	68.8
19	PFNA	375-95-1	9.99	462.989 > 418.931	476		0.131		na	
20	M9PFNA	INT STD	9.98	472.053 > 426.947	43556		6.387		na	63.9
21	br-PFOS	1763-23-1		498.989 > 80.294			ND		na	
22	L-PFOS	1763-23-1	10.04	498.989 > 80.294	635		1.104		na	
23	PFOS	1763-23-1		498.989 > 80.294	635		1.104		na	
24	M4PFOS	INT STD	10.04	503.032 > 80.306	7779		12.829		na	128.3
25	M8PFOS	INT STD	10.03	507.053 > 80.294	5881		6.192		na	61.9
26	PFDA	335-76-2	10.60	513.053 > 468.906	2182		0.608		na	
27	M2PFDA	INT STD	10.60	515.053 > 469.934	46045		10.983		na	109.8
28	M6PFDA	INT STD	10.60	519.053 > 473.931	42221		7.594		na	75.9
29	d3-NMeFOSAA	INT STD	10.93	573.096 > 418.987	4245		5.972		na	59.7
30	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		na	
31	PFUnA	2058-94-8	11.13	562.989 > 518.903	4471		1.415		na	
32	M7-PFUDA	INT STD	11.13	570.053 > 524.923	30693		6.747		na	67.5
33	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	4336		6.437		na	64.4
34	NEtFOSAA	2991-50-6	11.22	583.989 > 418.927	80		0.202		na	
35	PFDoA	307-55-1	11.59	612.989 > 568.967	5513		1.912		na	
36	MPFDOA	INT STD	11.59	614.989 > 569.92	29452		6.257		na	62.6
37	PFTrDA	72629-94-8	11.98	663.053 > 618.969	2540		0.933		na	
38	PFTA	376-06-7	12.33	713.053 > 668.976	2183		1.358		na	
39	M2PFTEDA	INT STD	12.33	715.053 > 669.945	18850		5.094		na	50.9

all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

Name: I6064
ID: WG1101262-4
Date: 29-Mar-2018
Time: 17:28:20
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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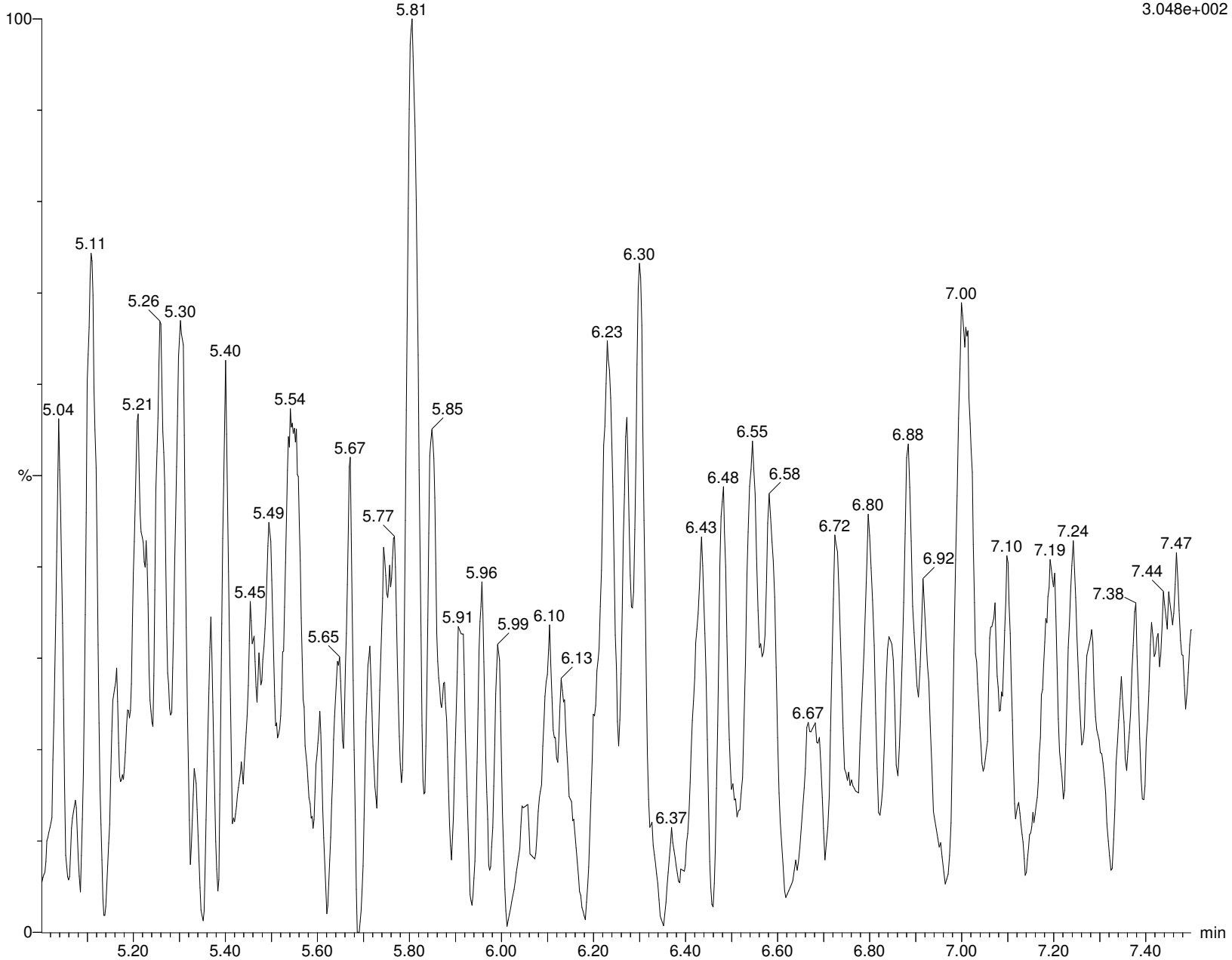

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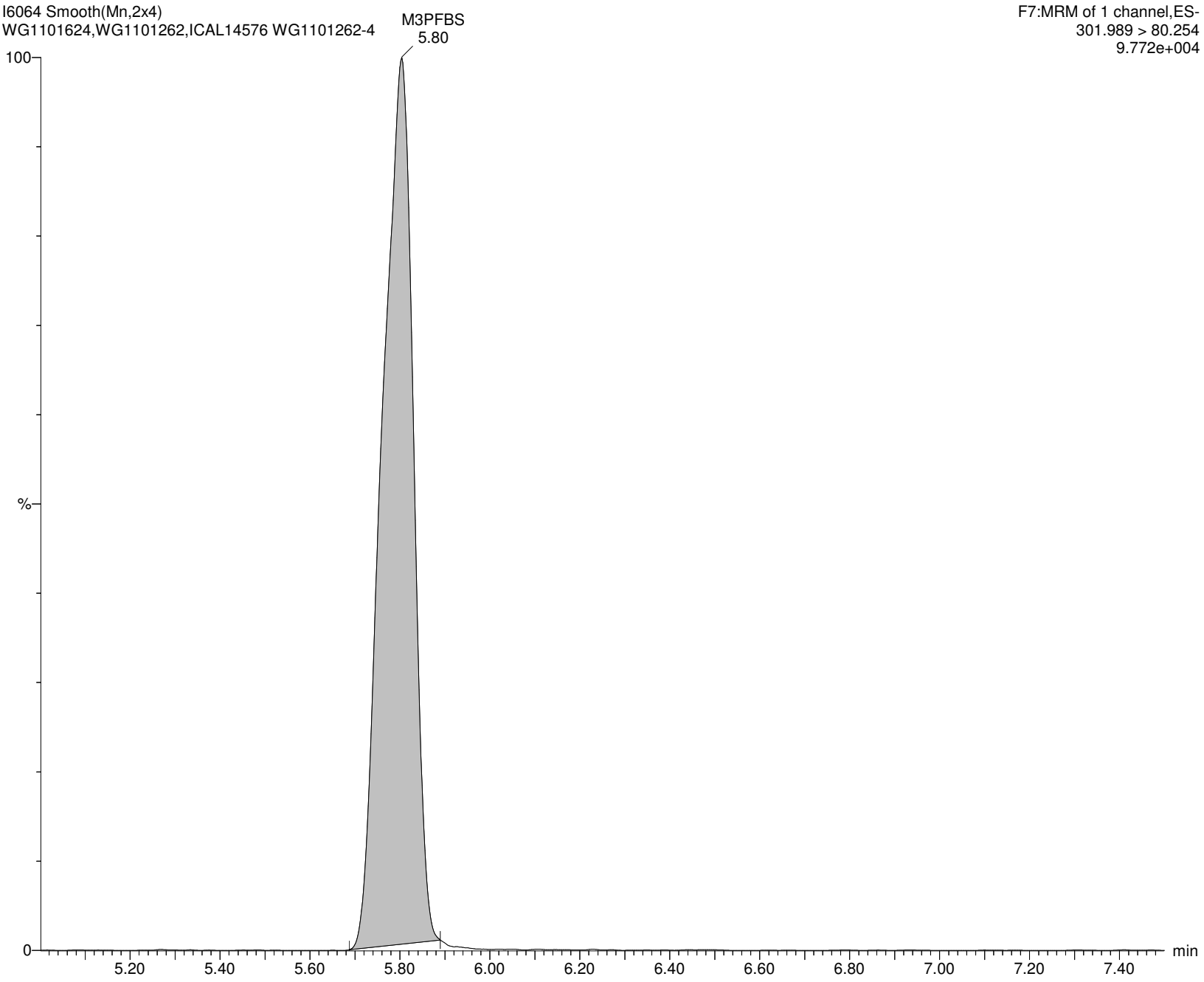

all concentration units in (ng/mL)

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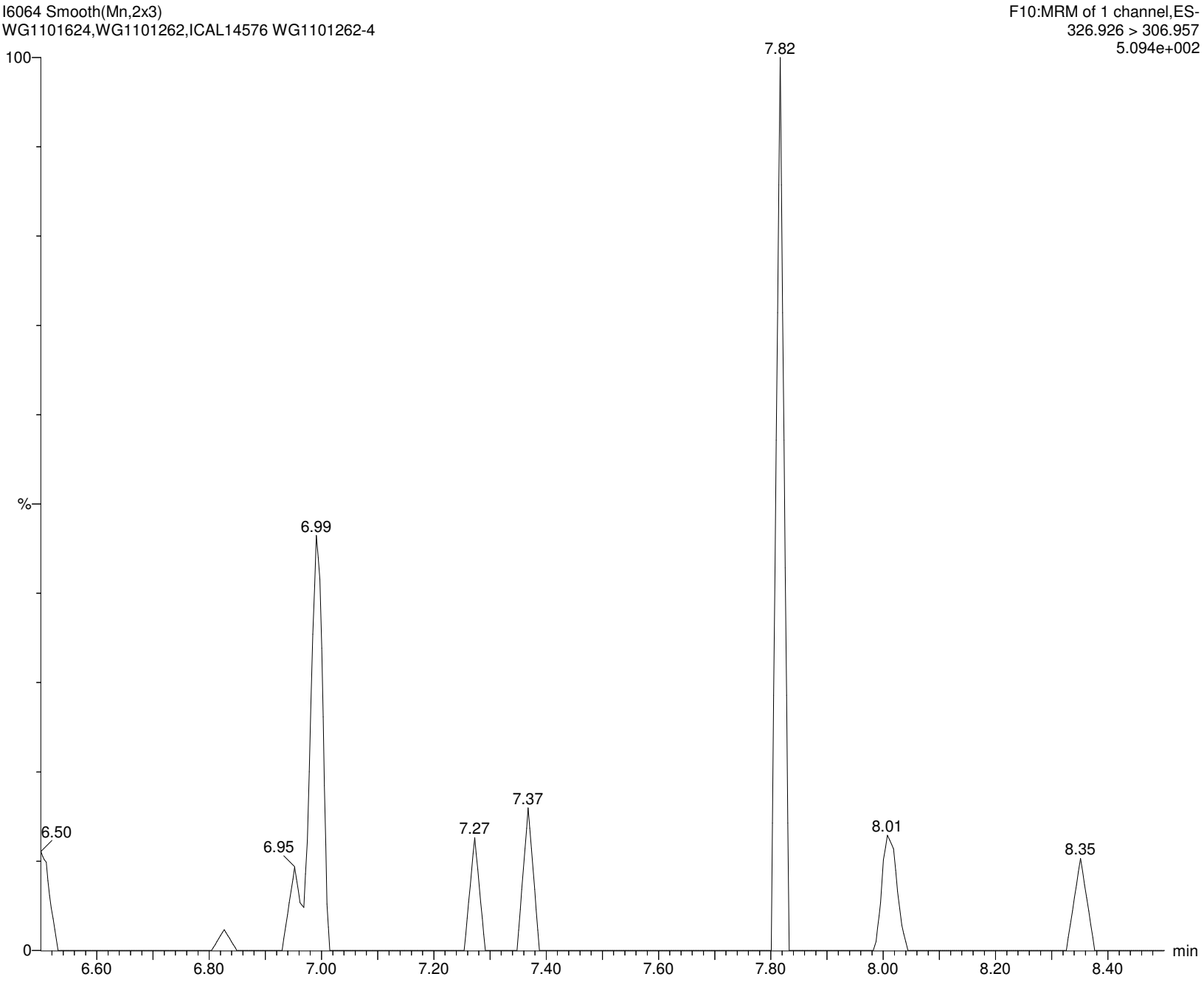

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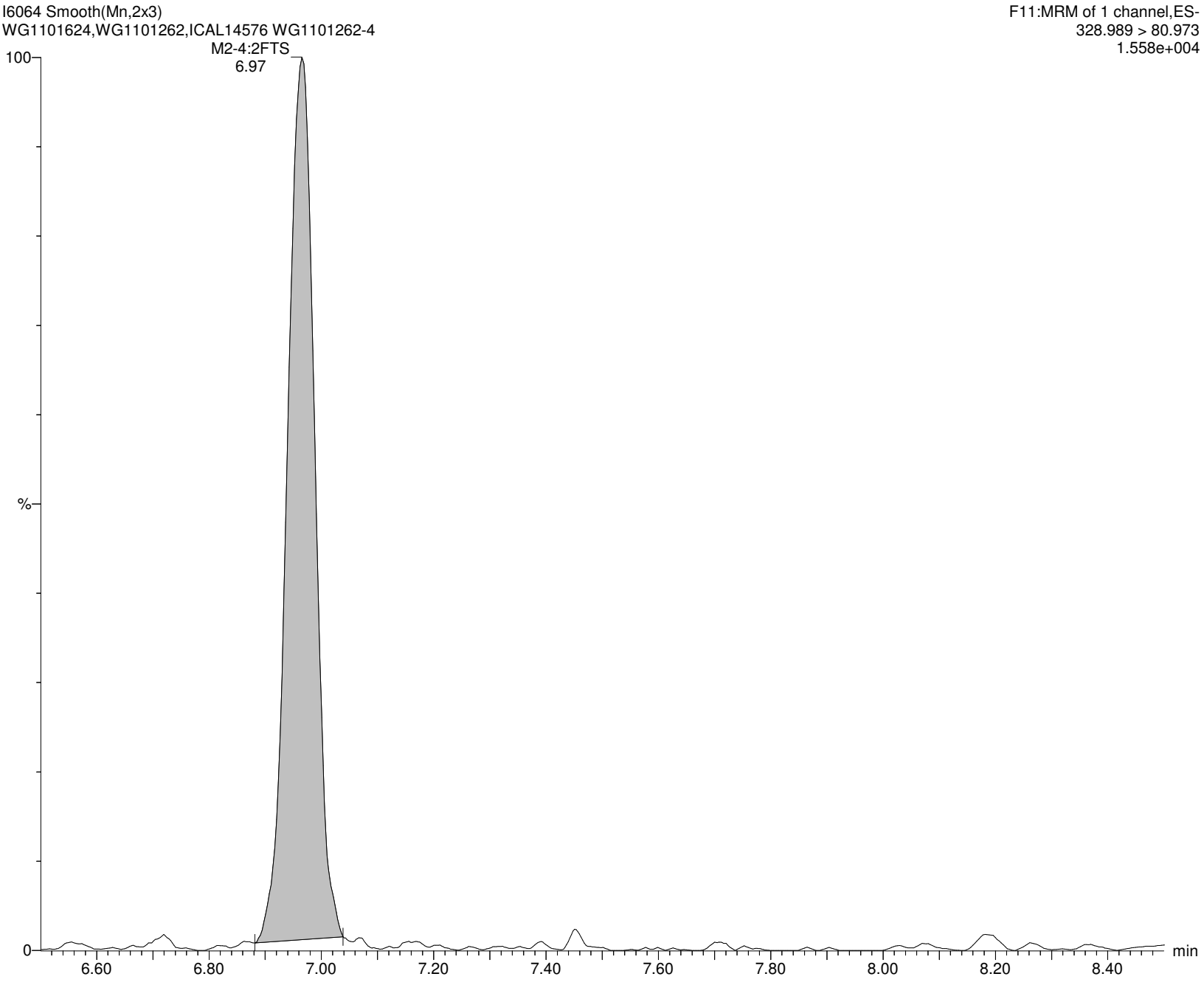

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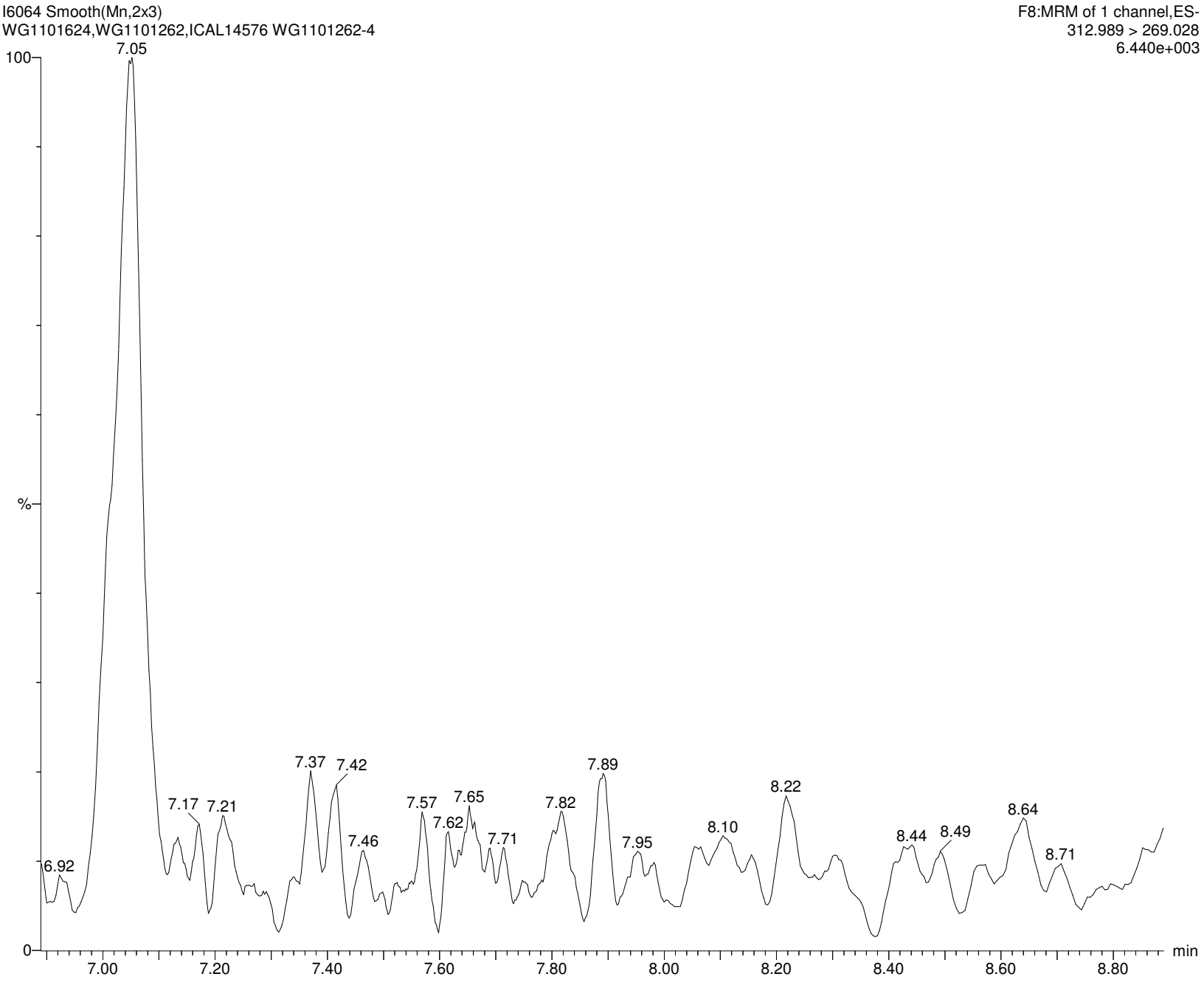

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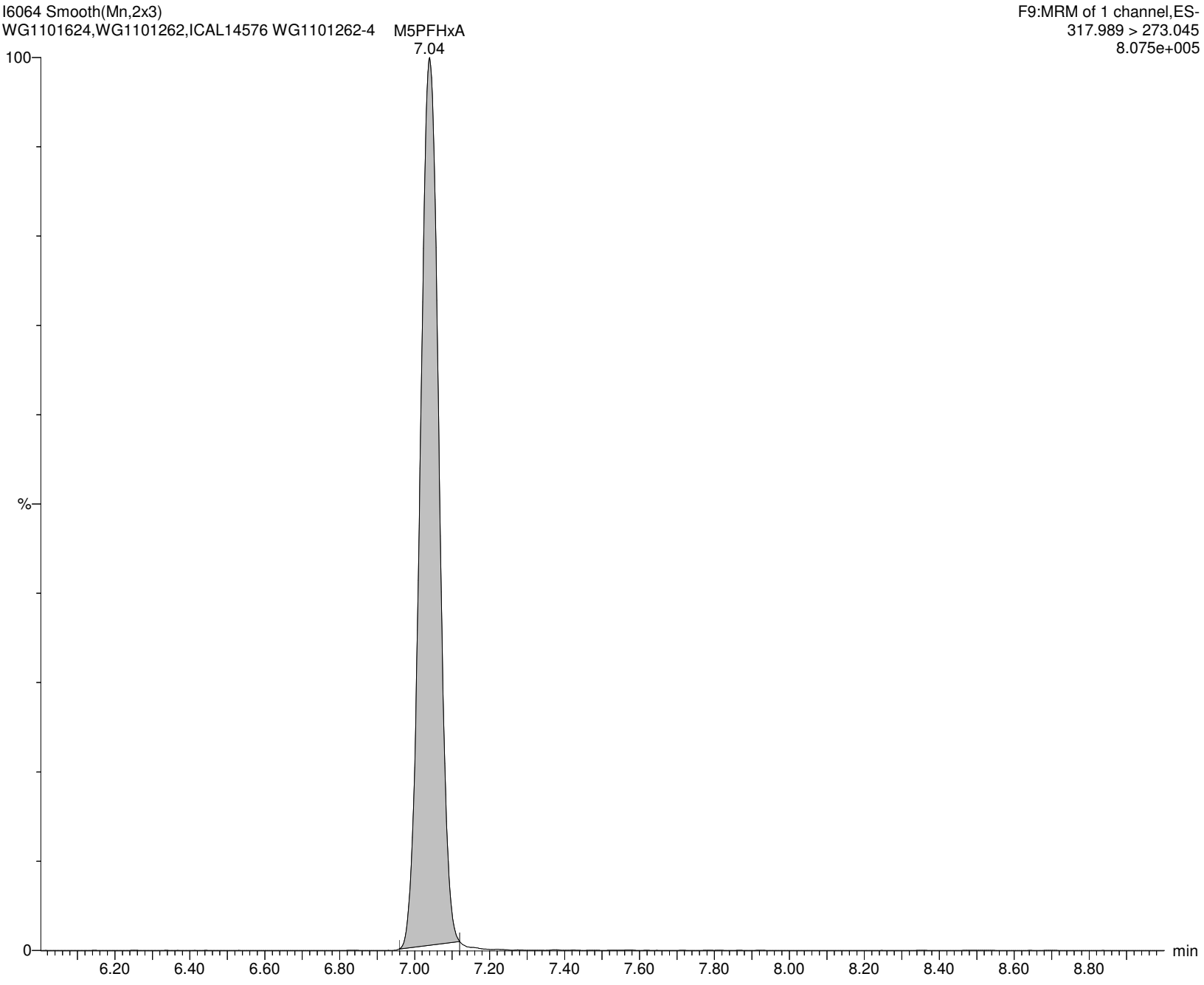

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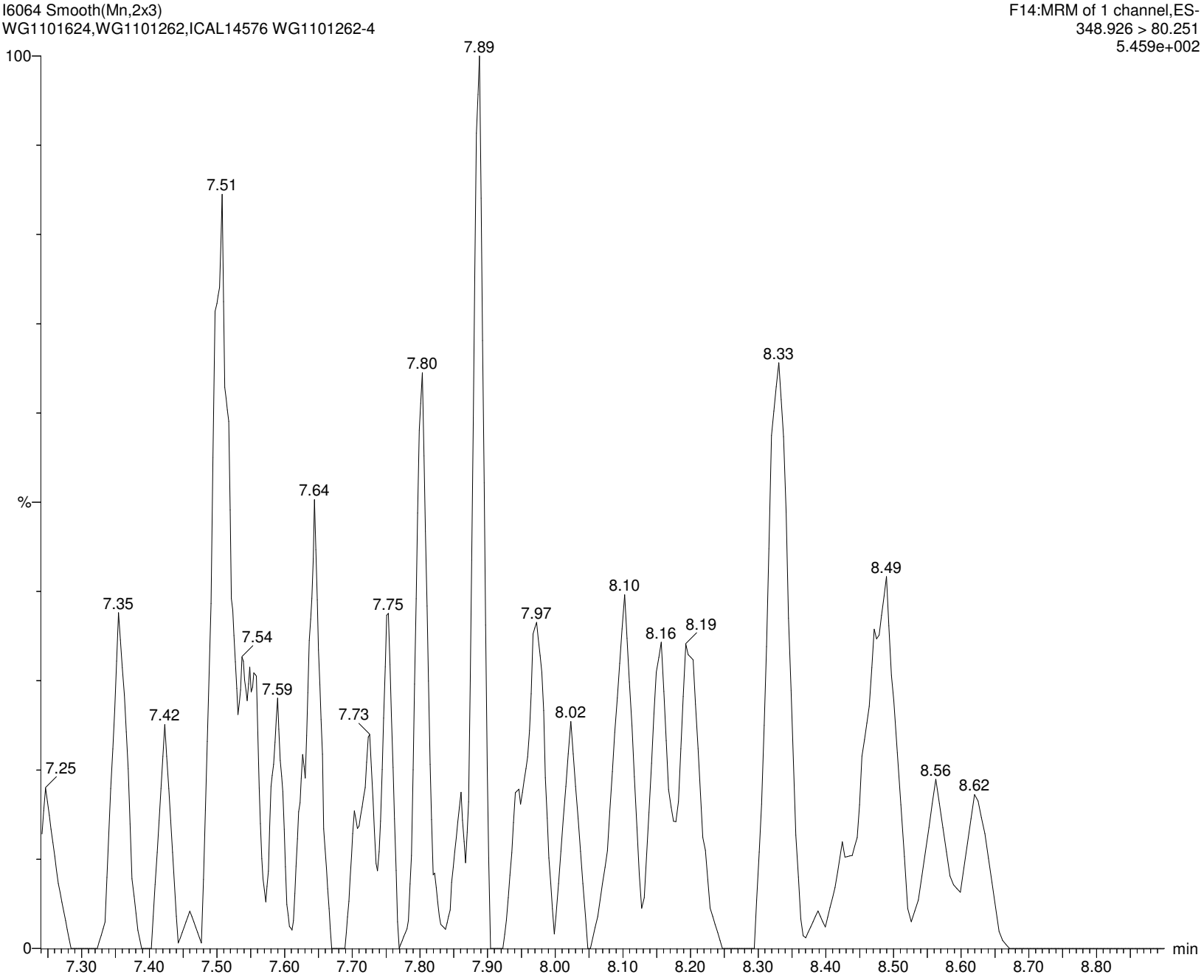

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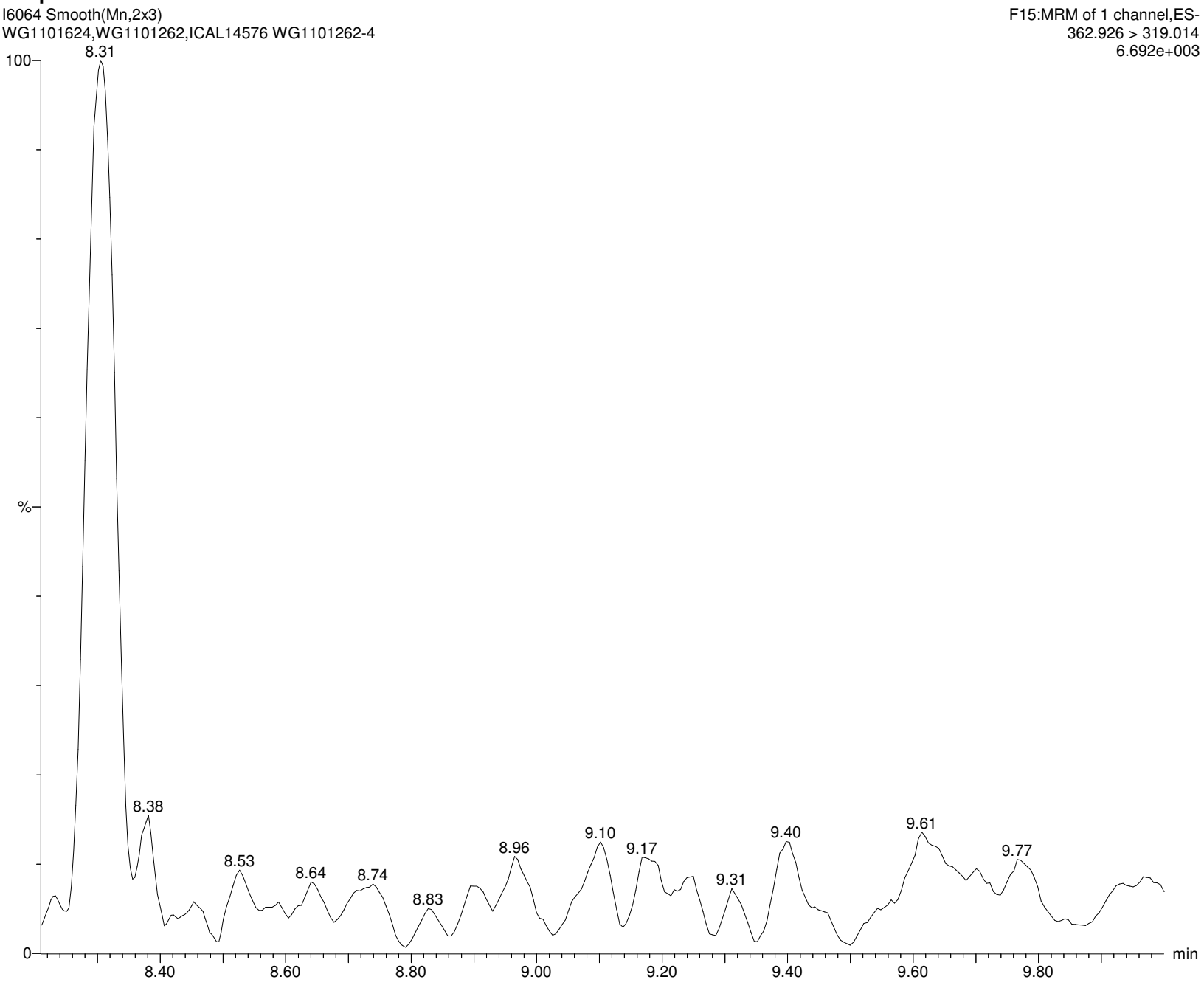

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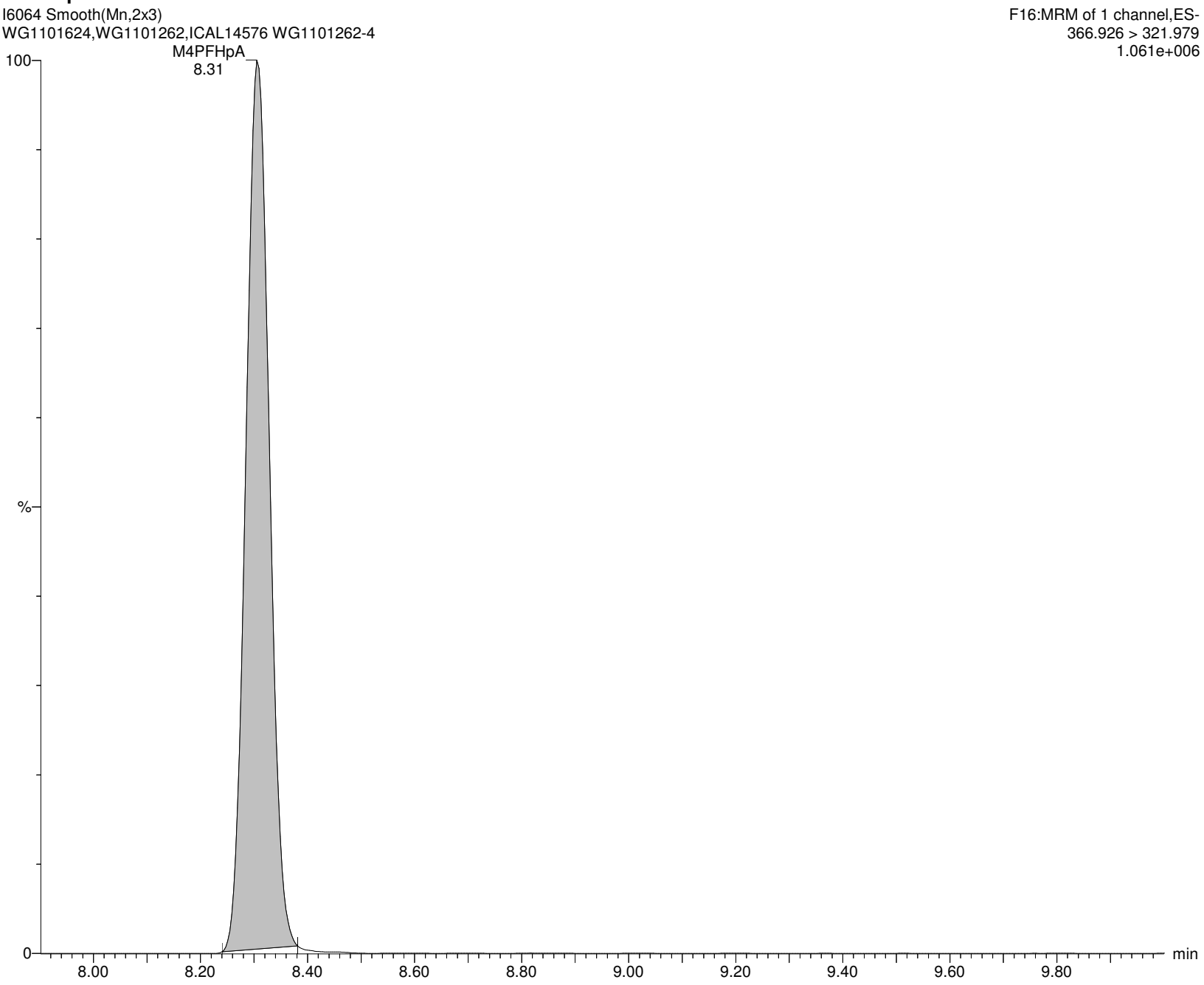

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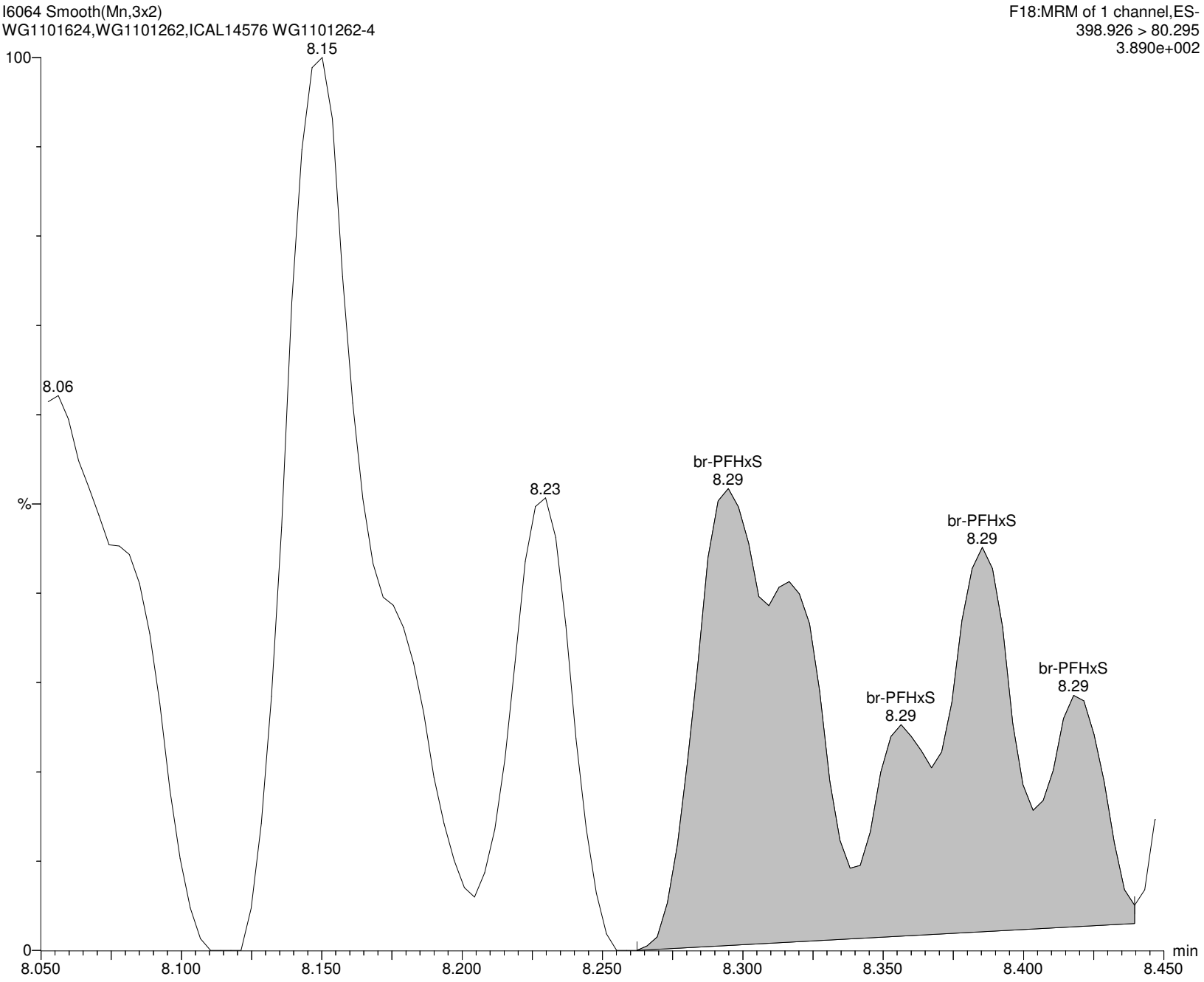
br-PFHxS



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Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,7
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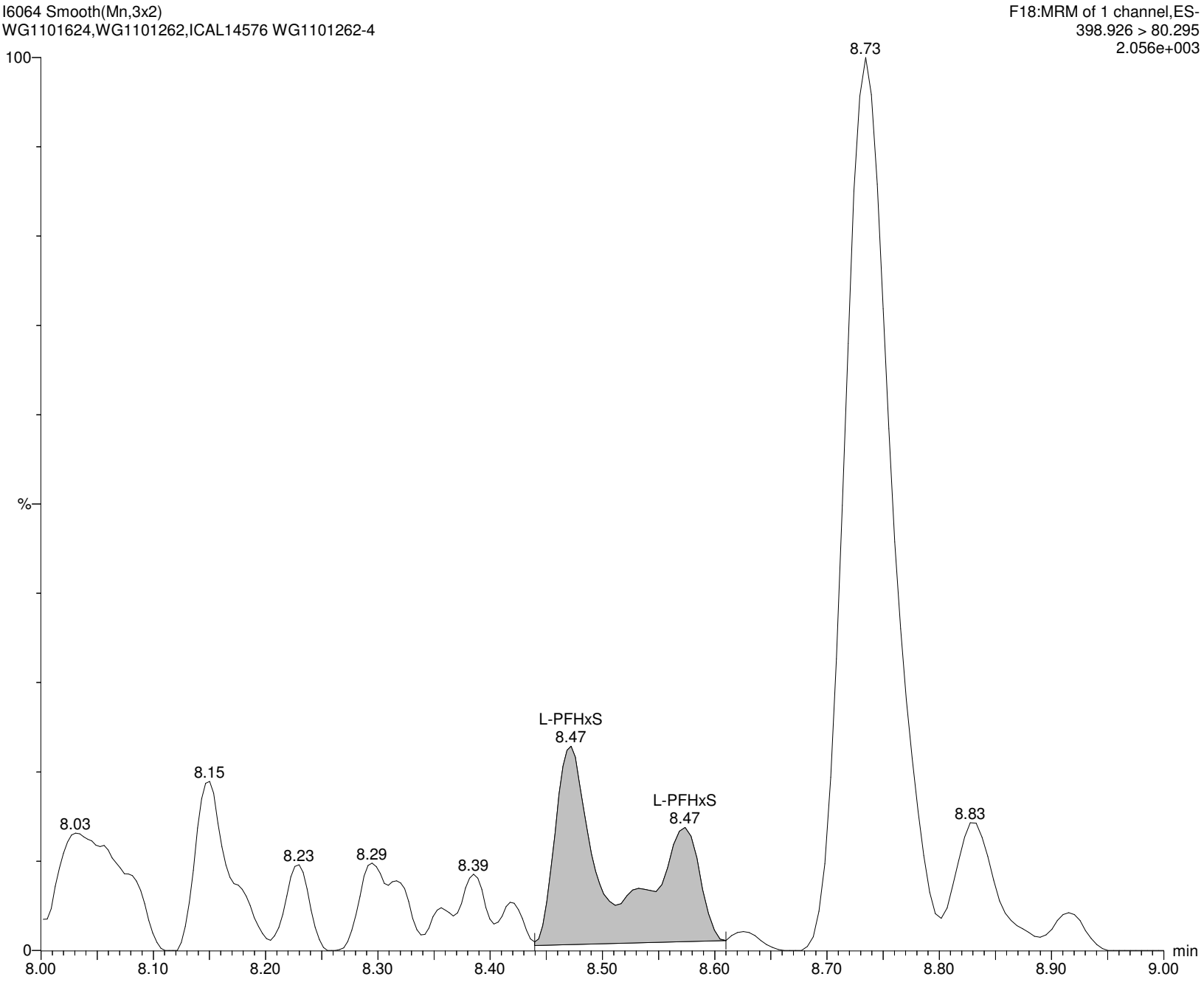

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:33:11 Eastern Daylight Time

Name: I6064
ID: WG1101262-4
Date: 29-Mar-2018
Time: 17:28:20
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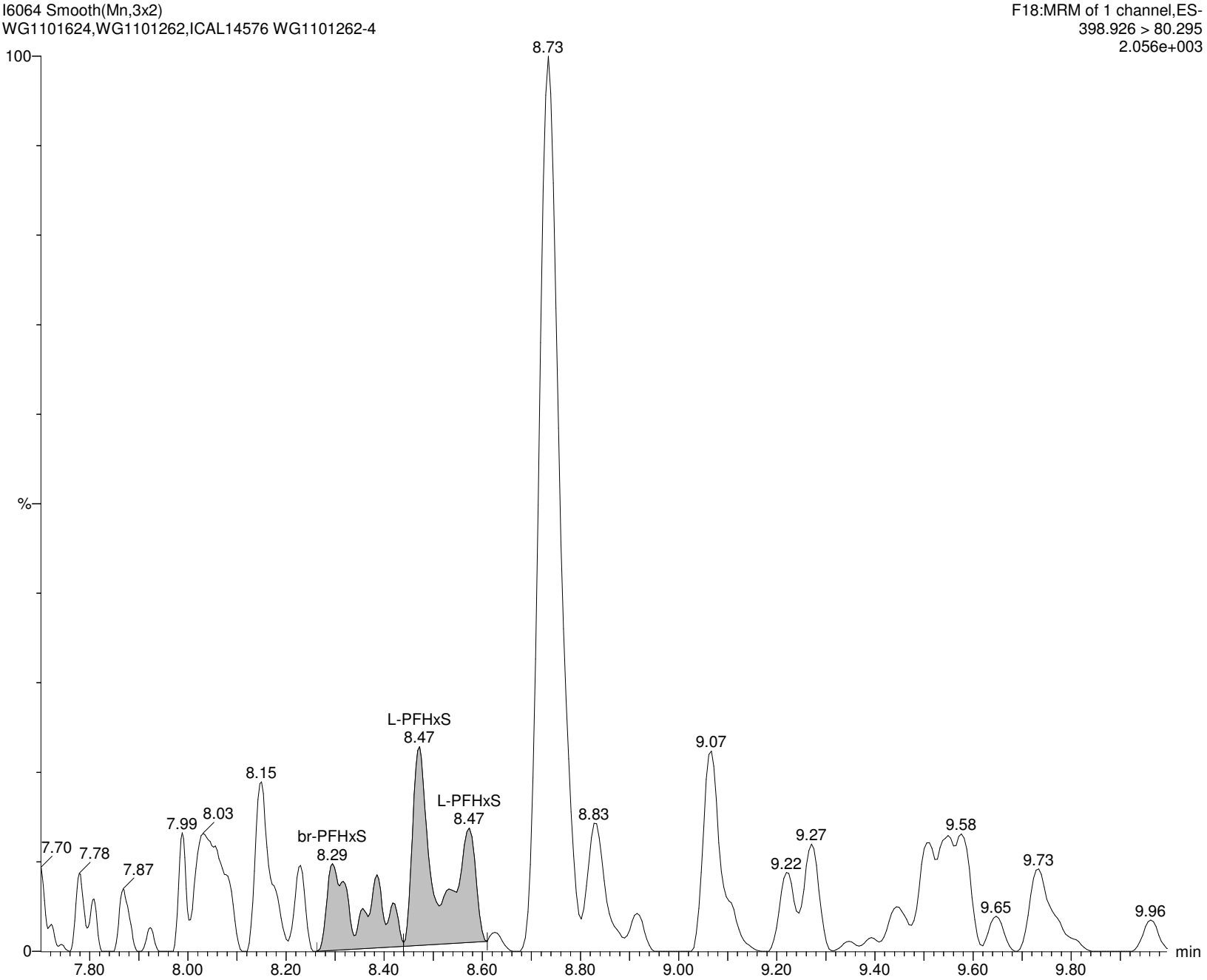

all concentration units in (ng/mL)

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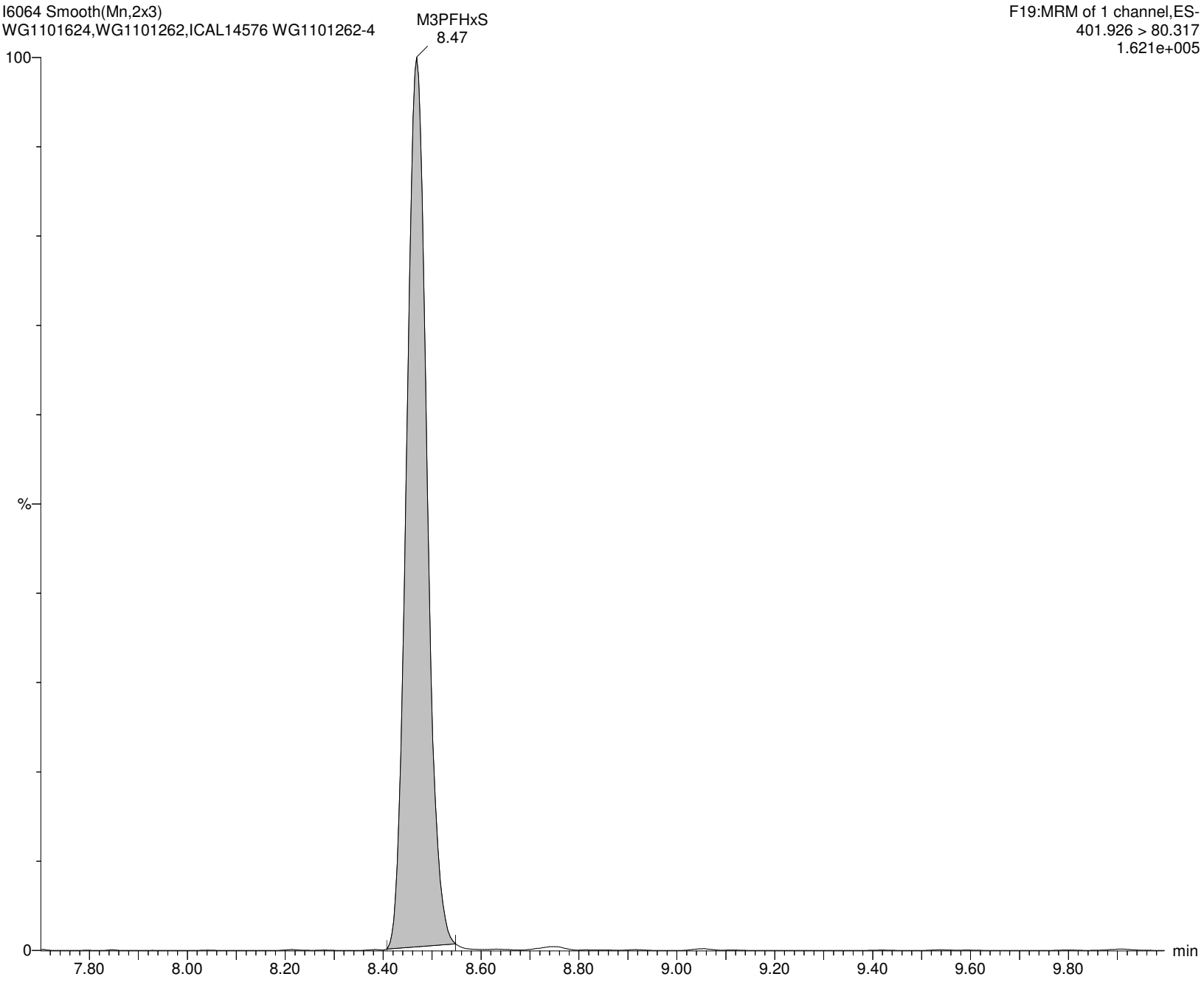

all concentration units in (ng/mL)

Alpha Analytical Inc.
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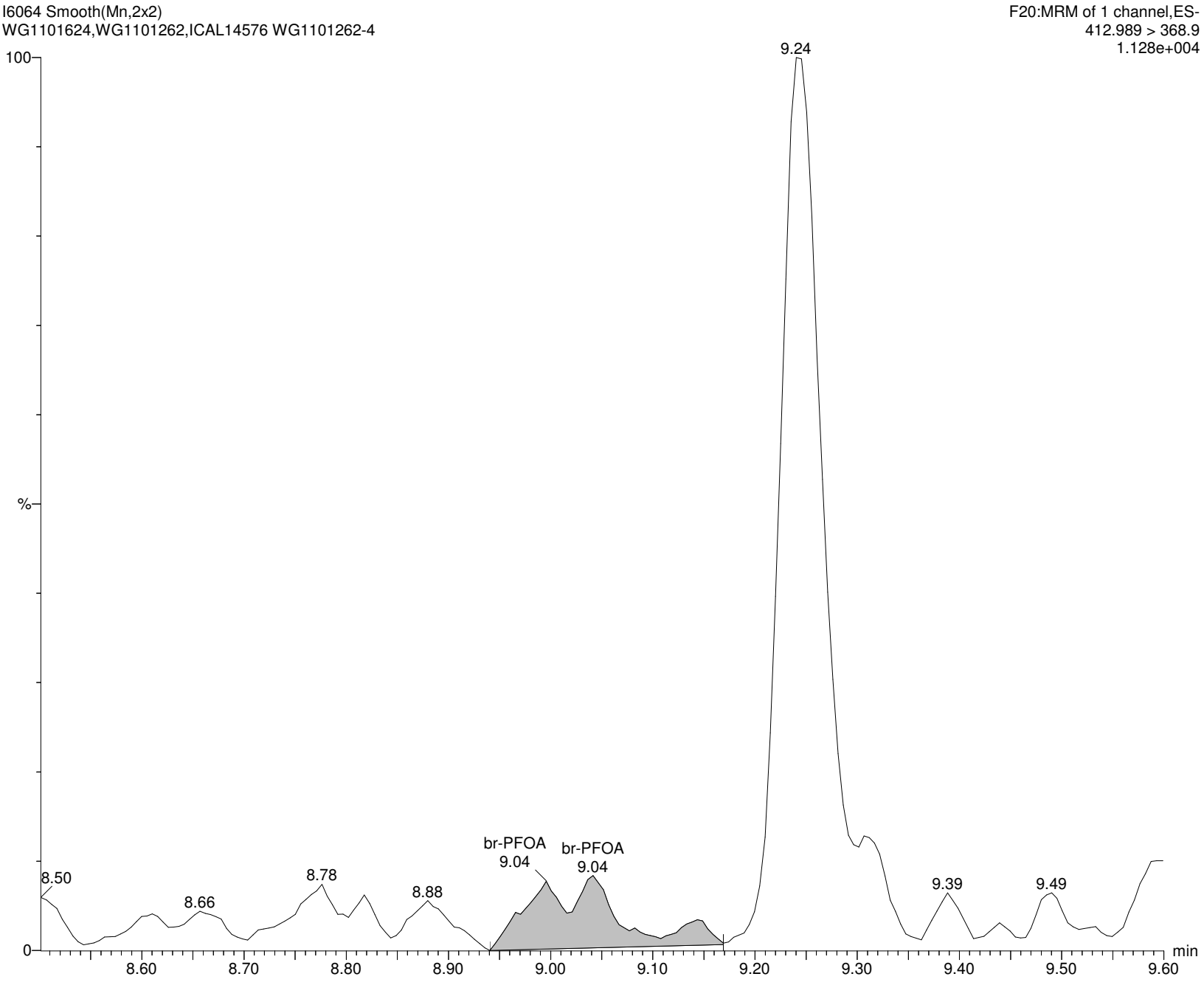

all concentration units in (ng/mL)

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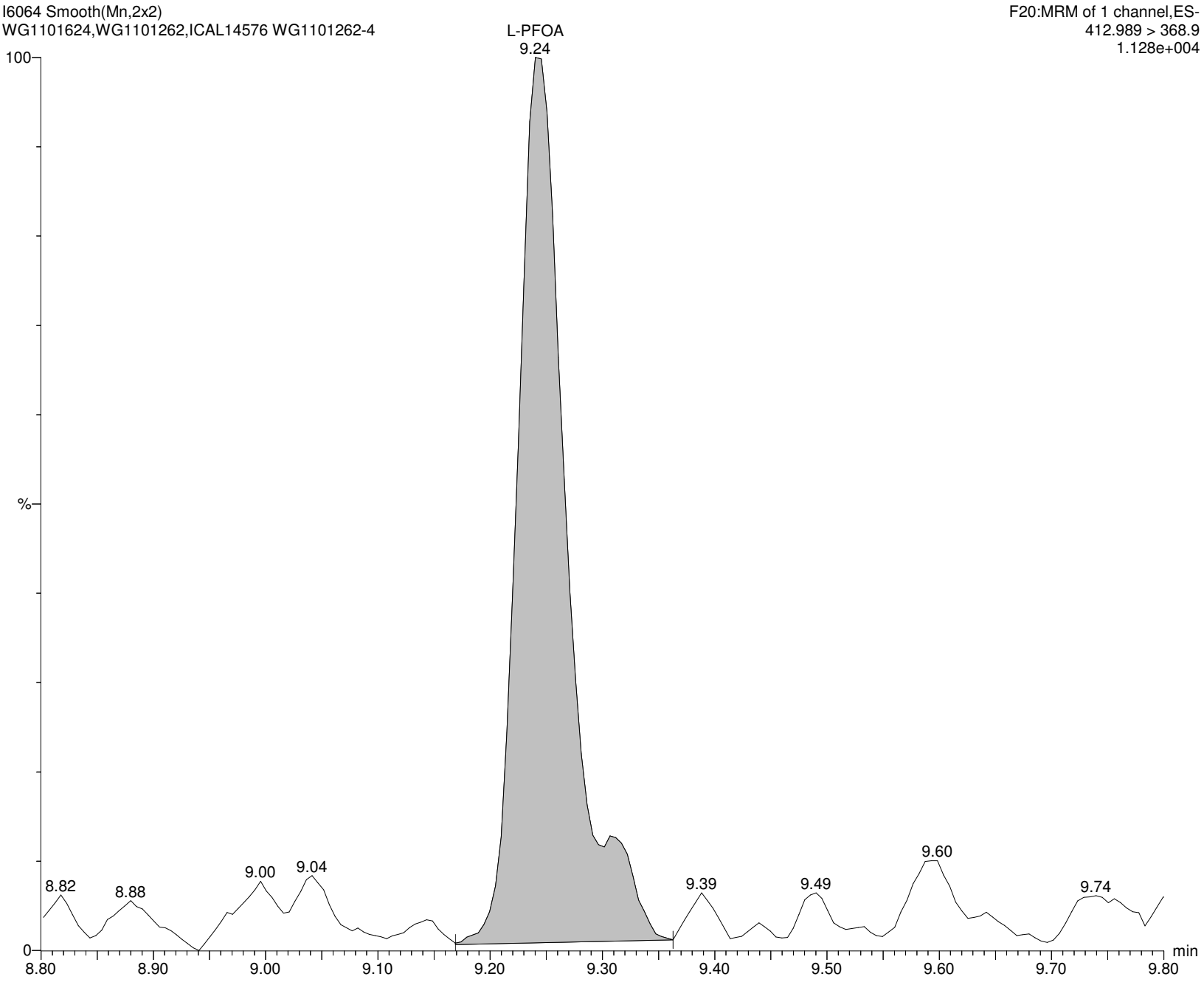

all concentration units in (ng/mL)

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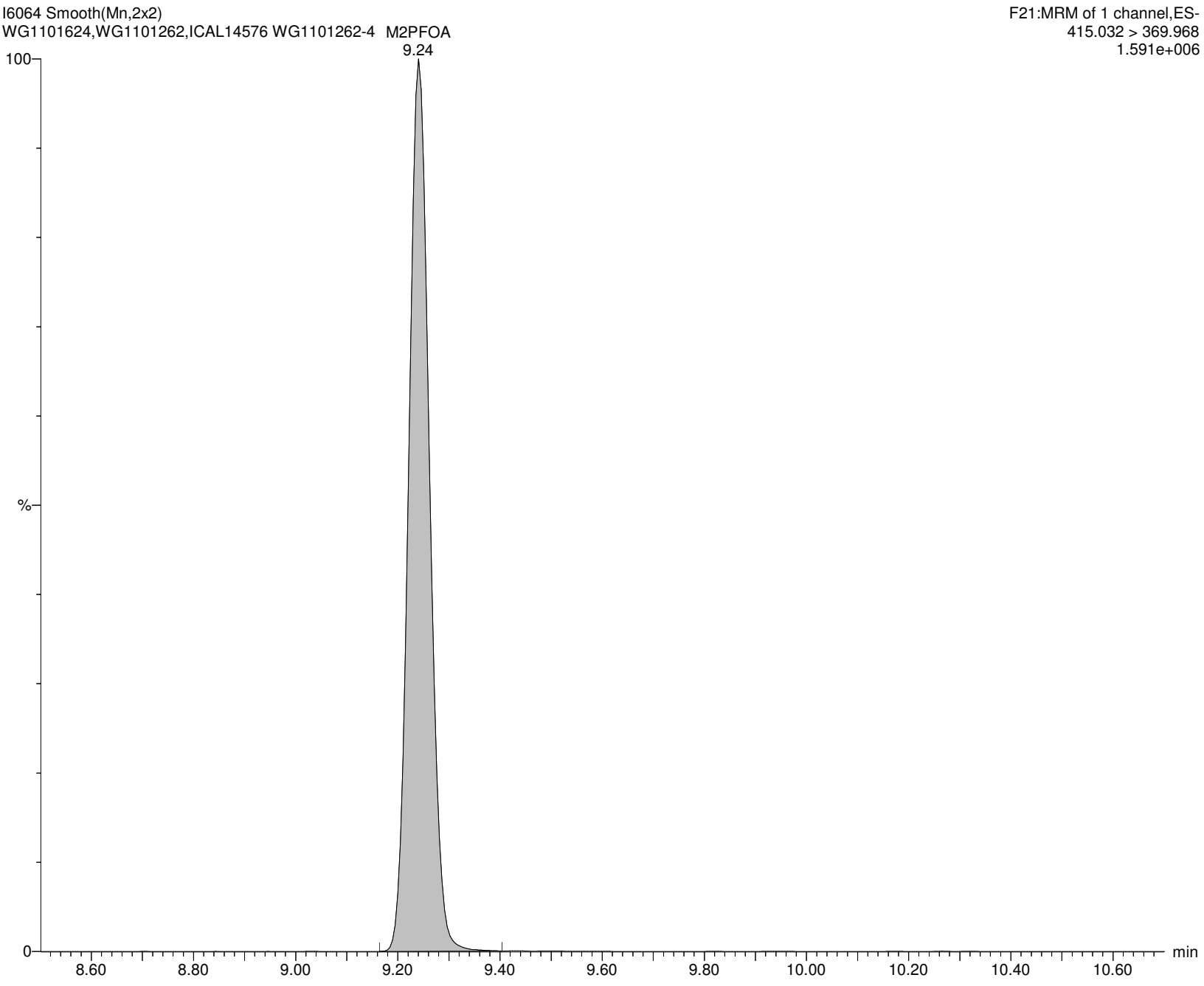

all concentration units in (ng/mL)

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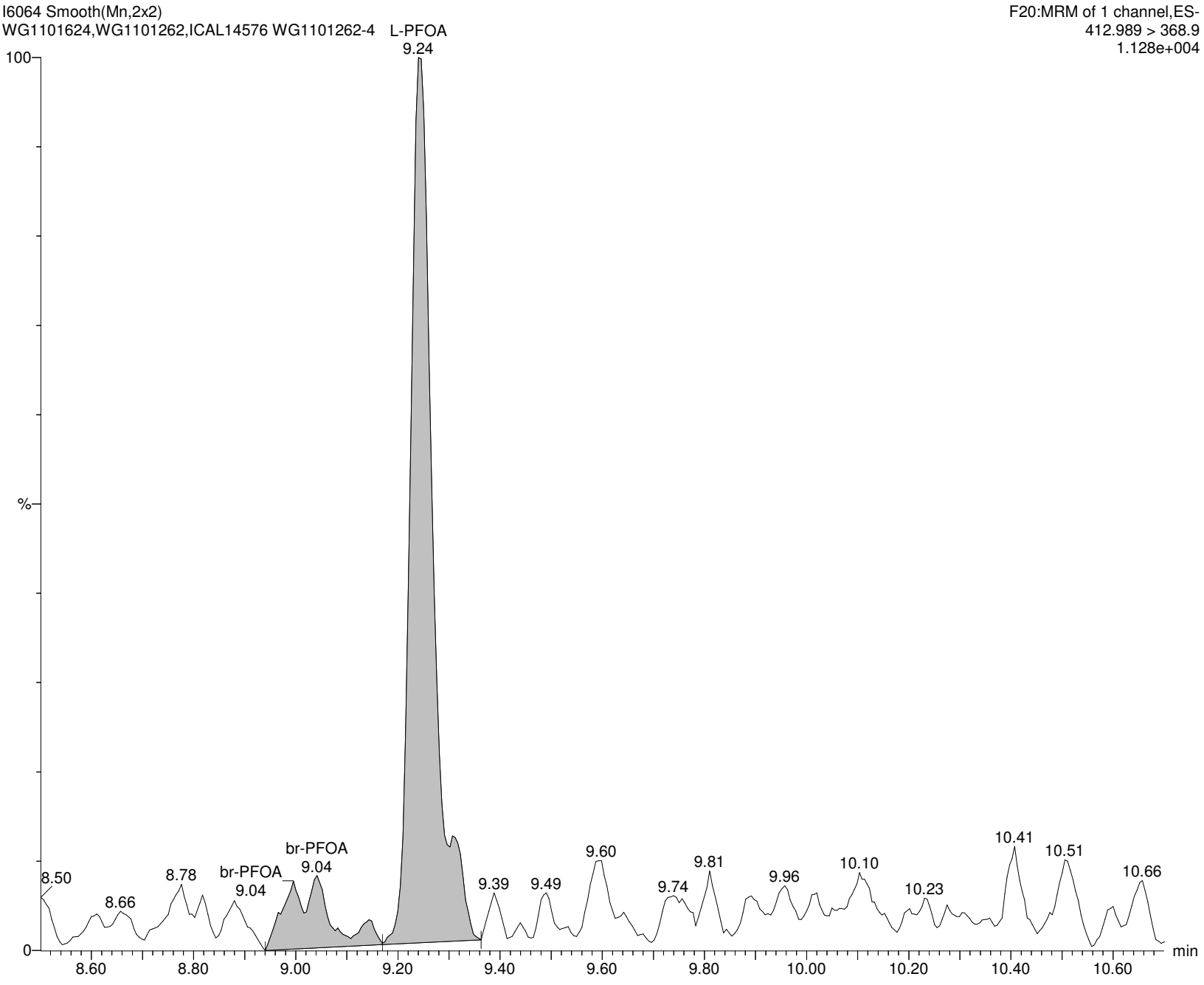

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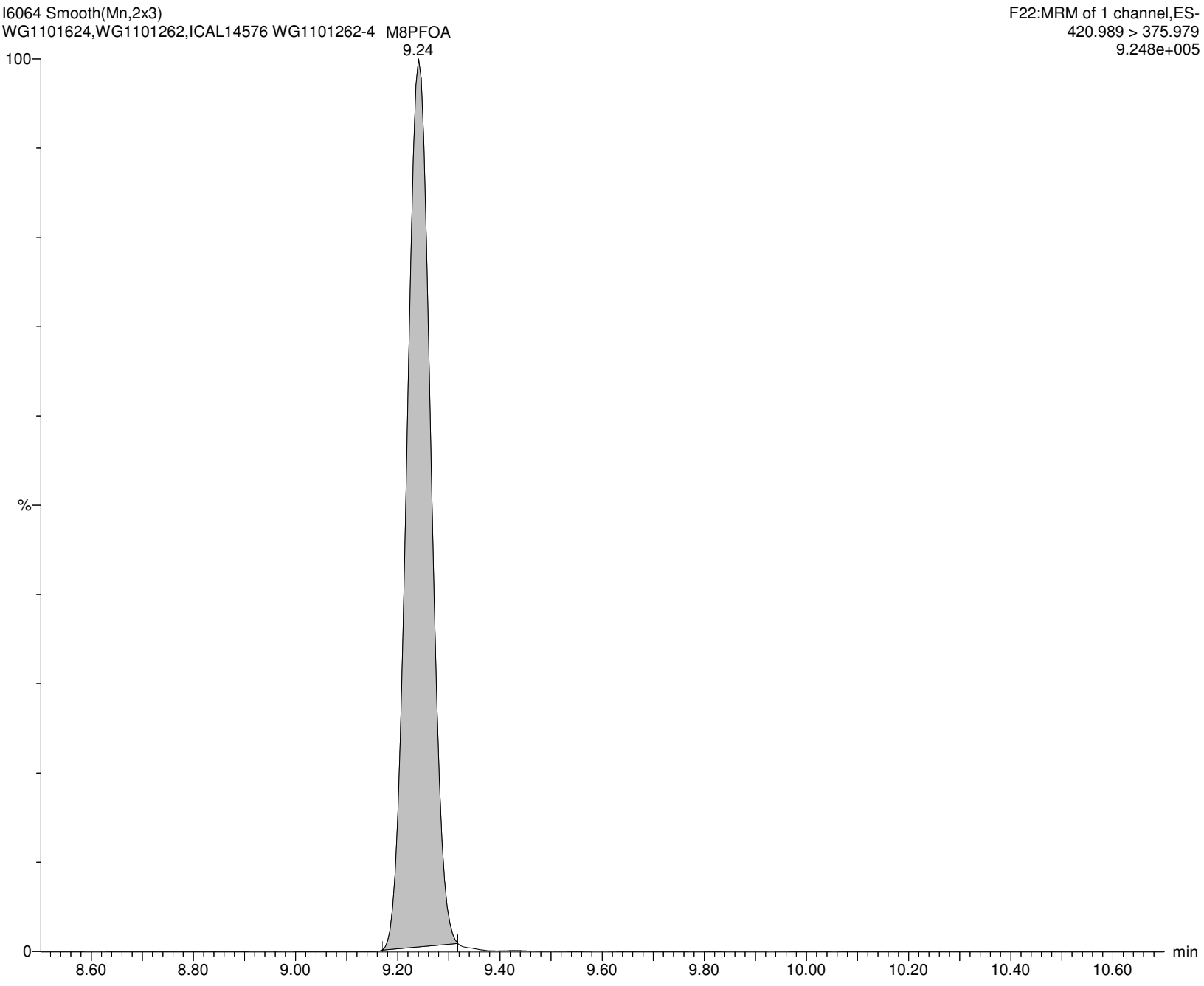

all concentration units in (ng/mL)

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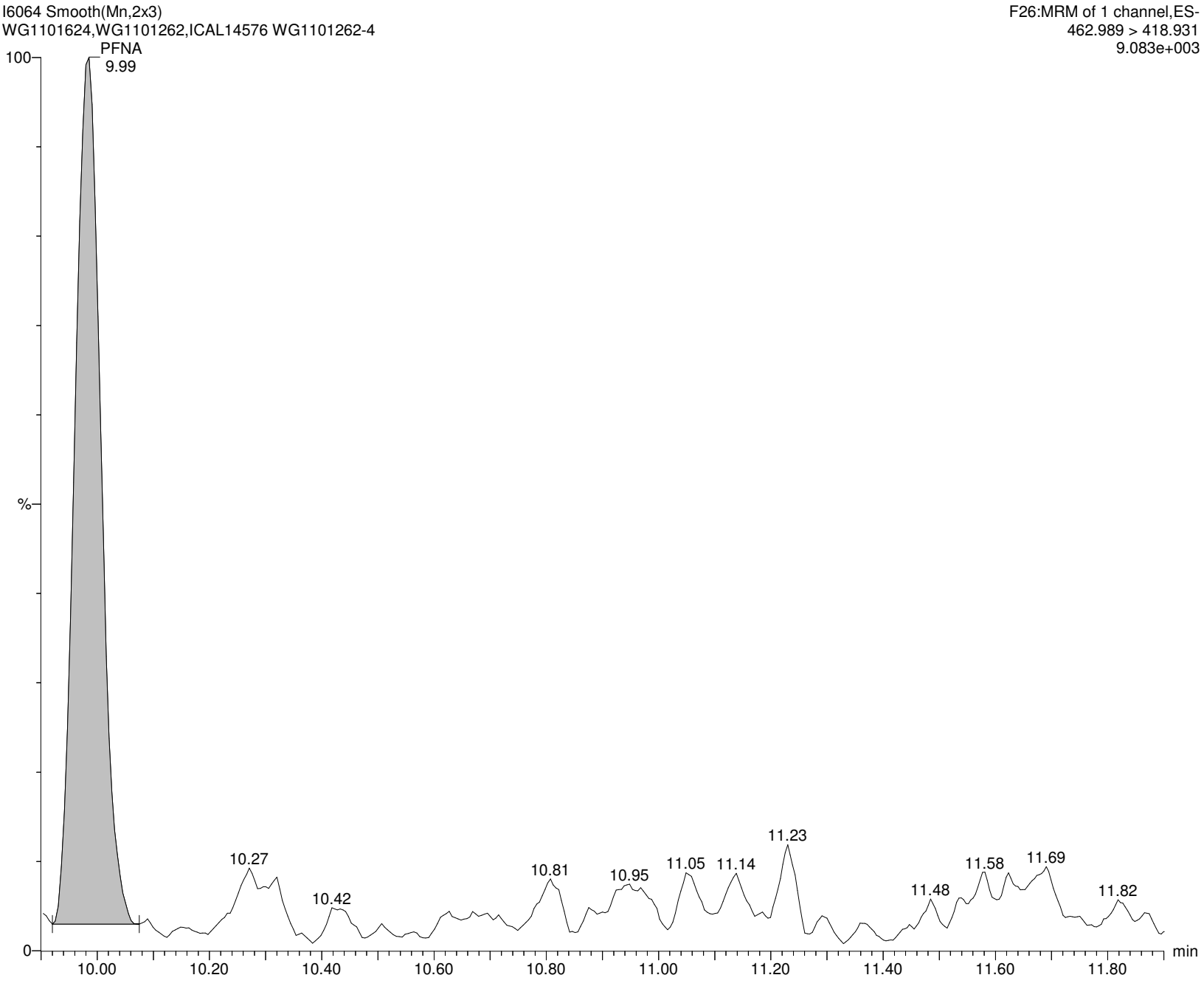

all concentration units in (ng/mL)

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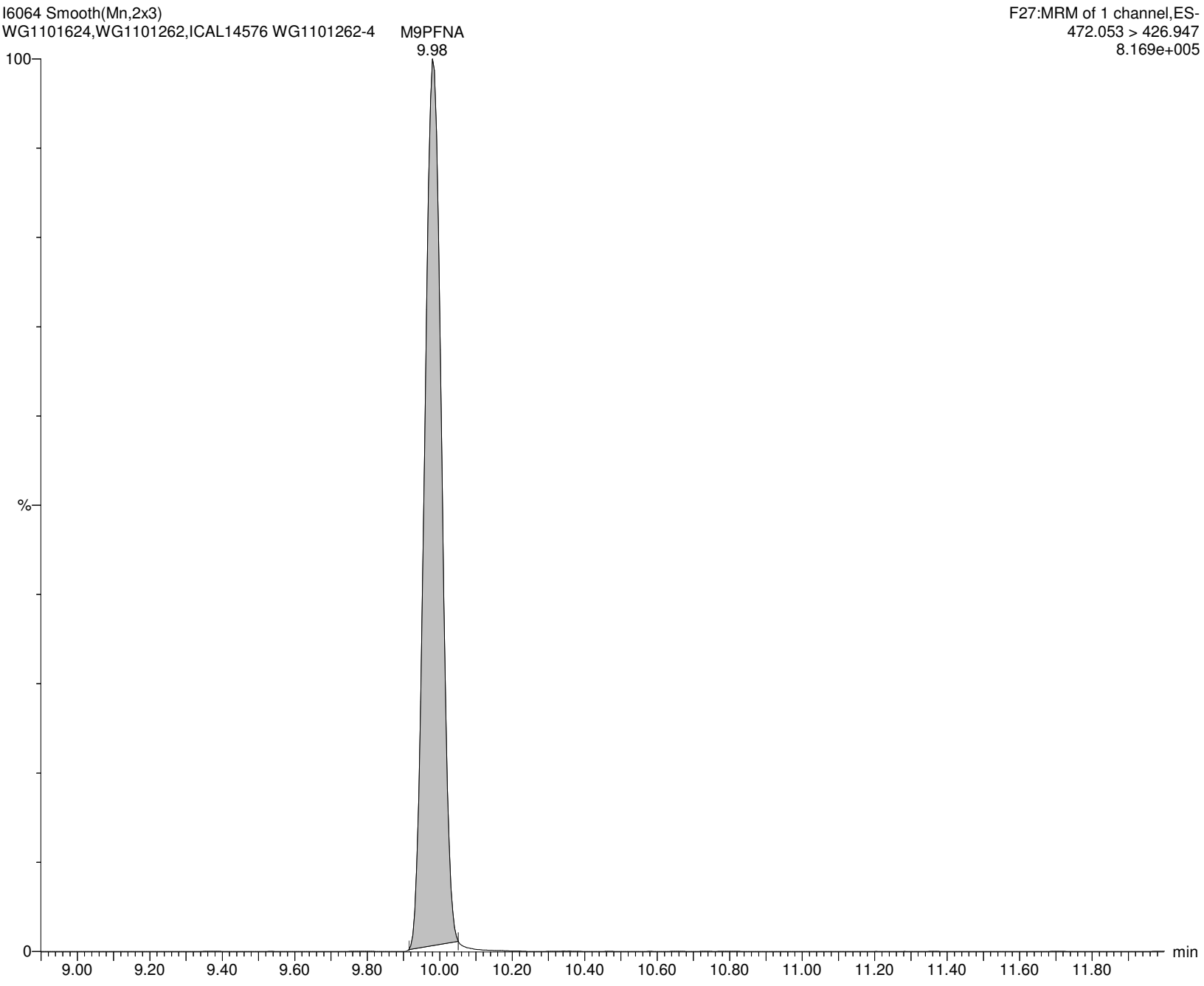

all concentration units in (ng/mL)

Alpha Analytical Inc.
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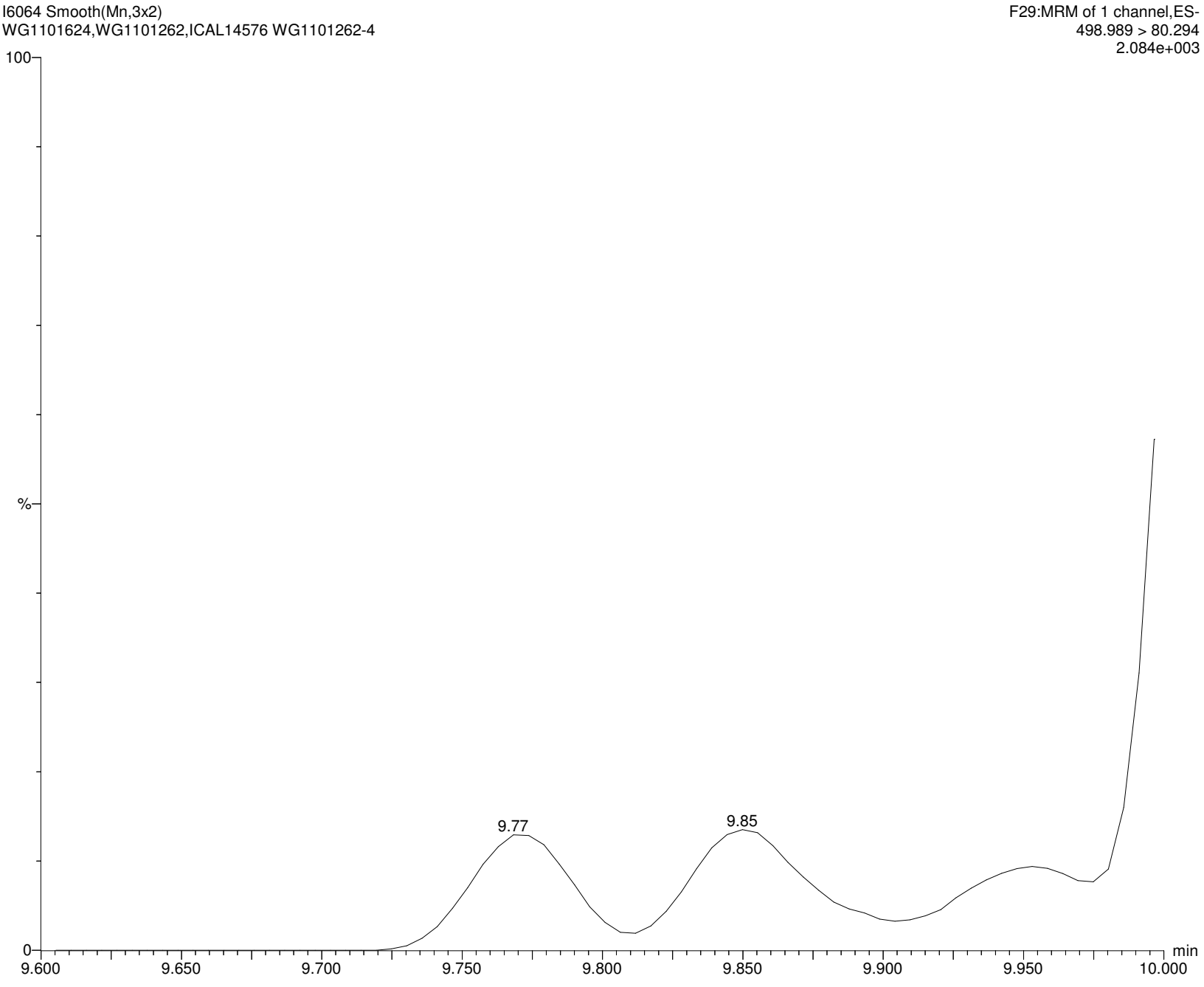

all concentration units in (ng/mL)

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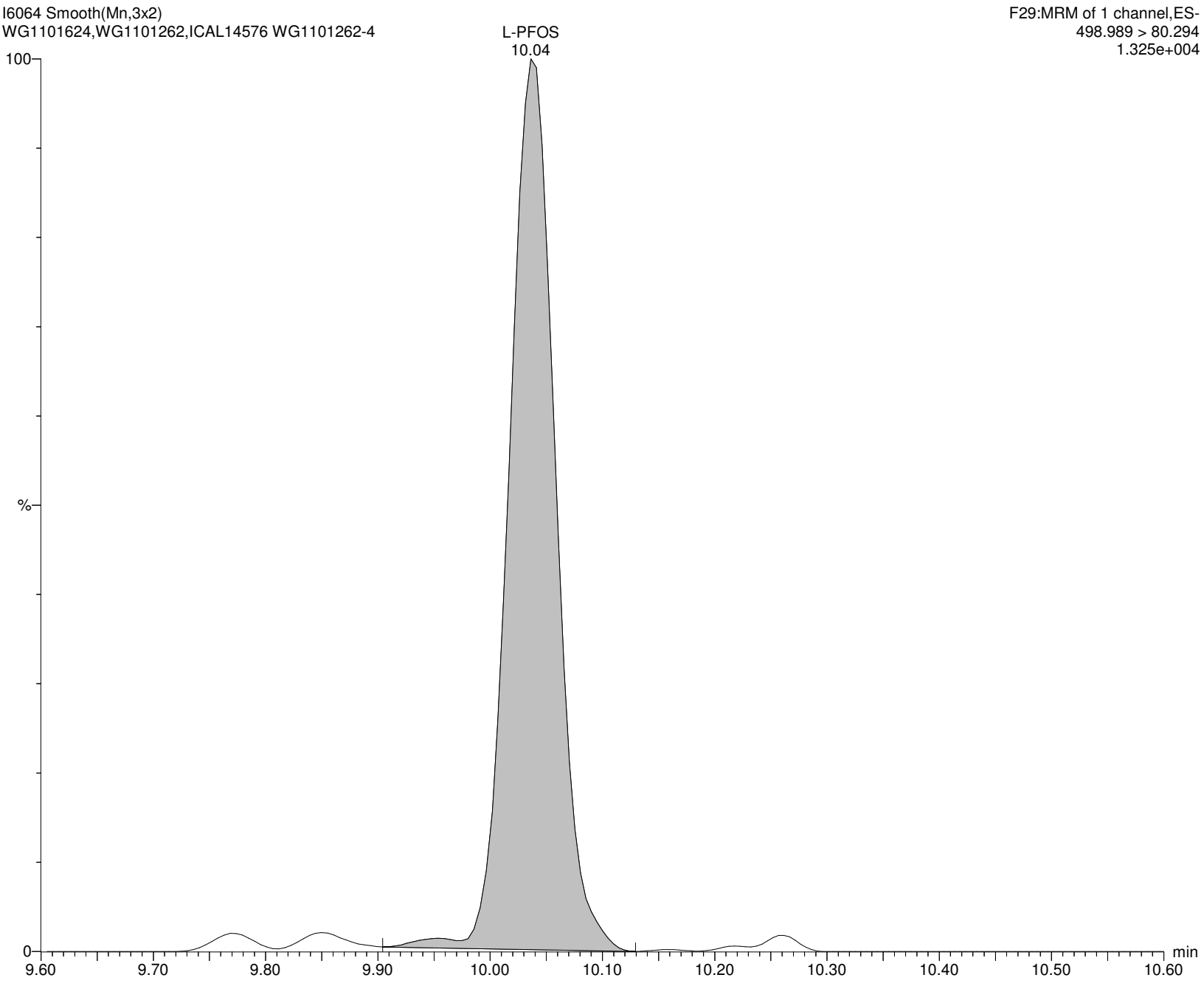

all concentration units in (ng/mL)

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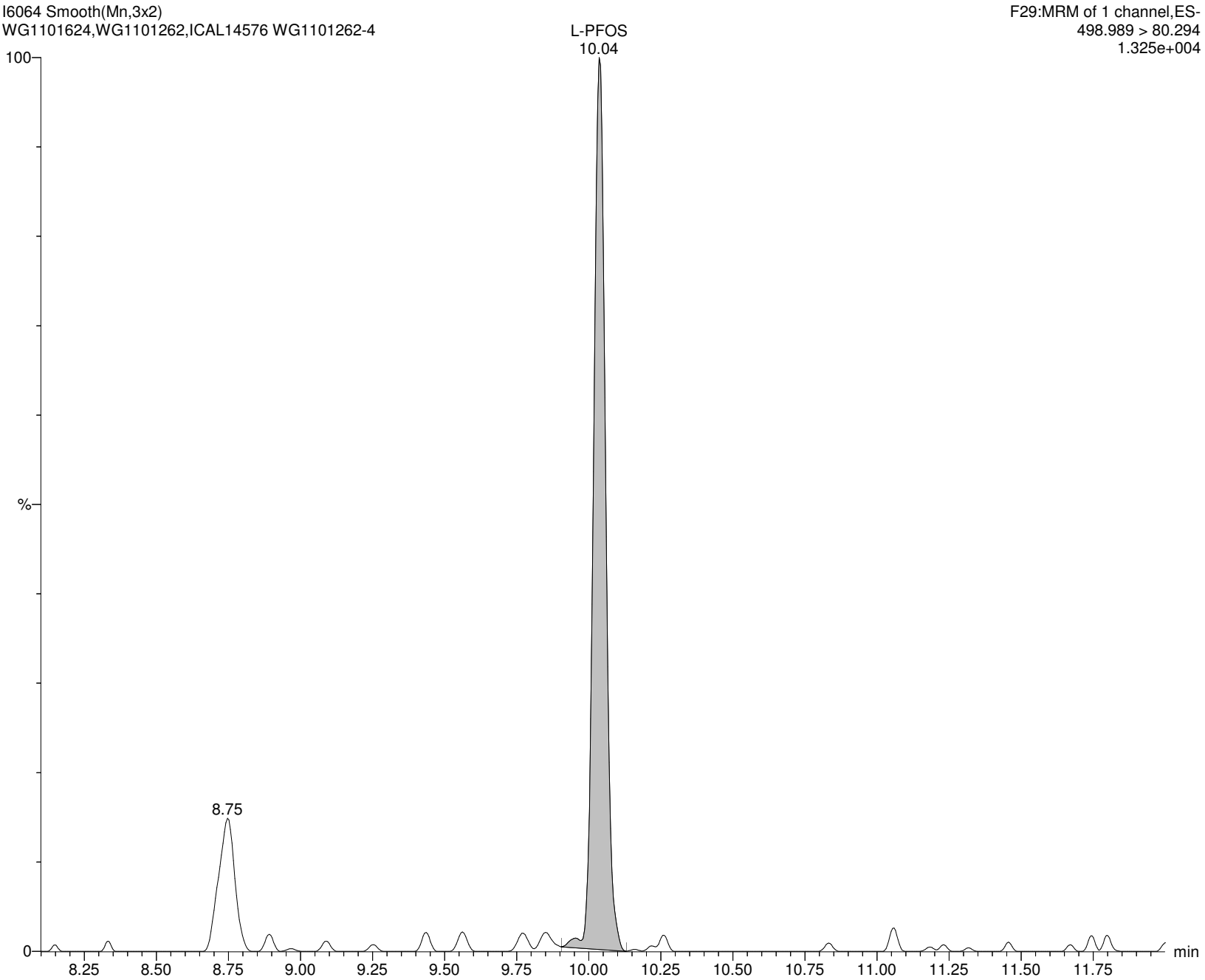

all concentration units in (ng/mL)

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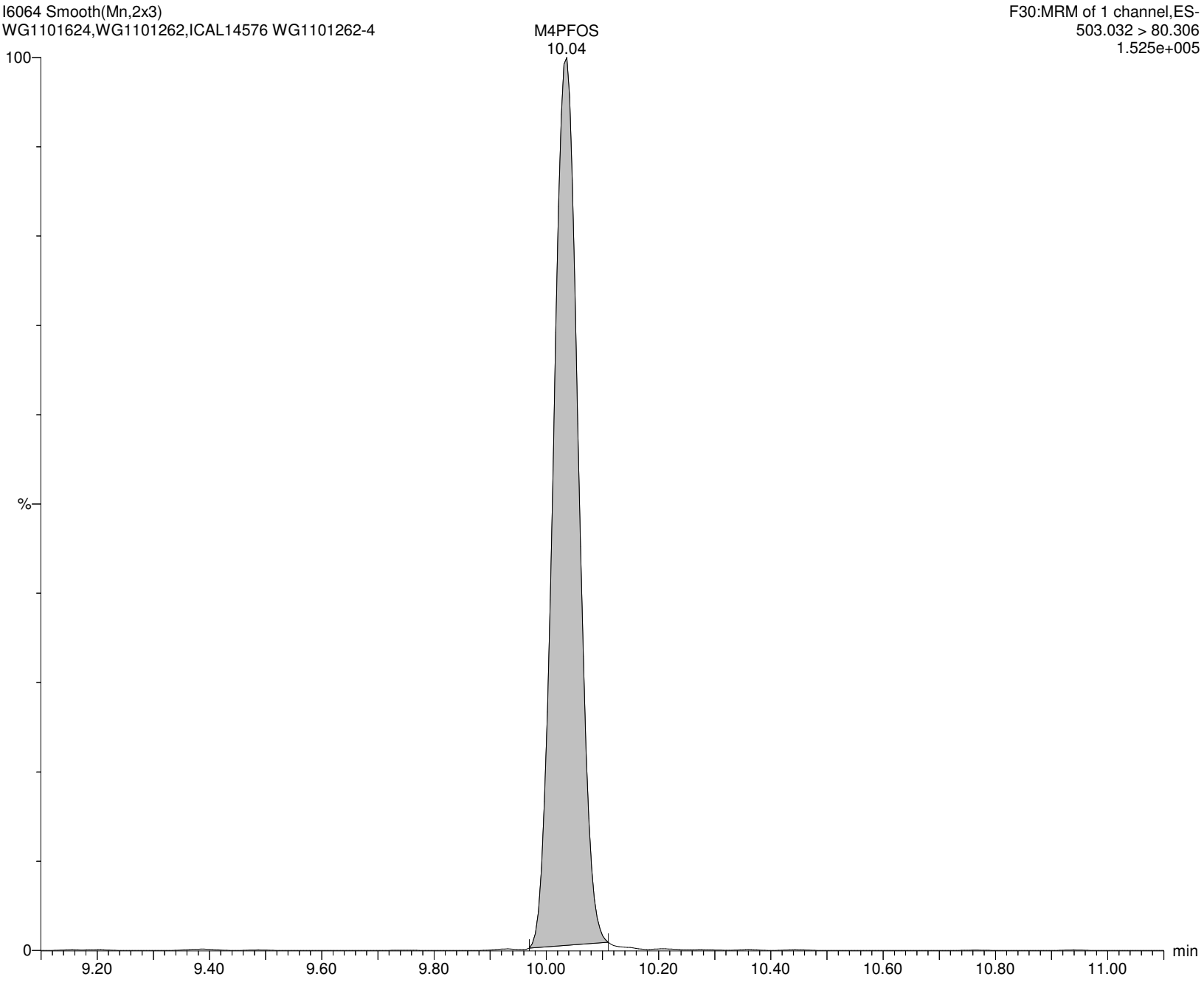

all concentration units in (ng/mL)

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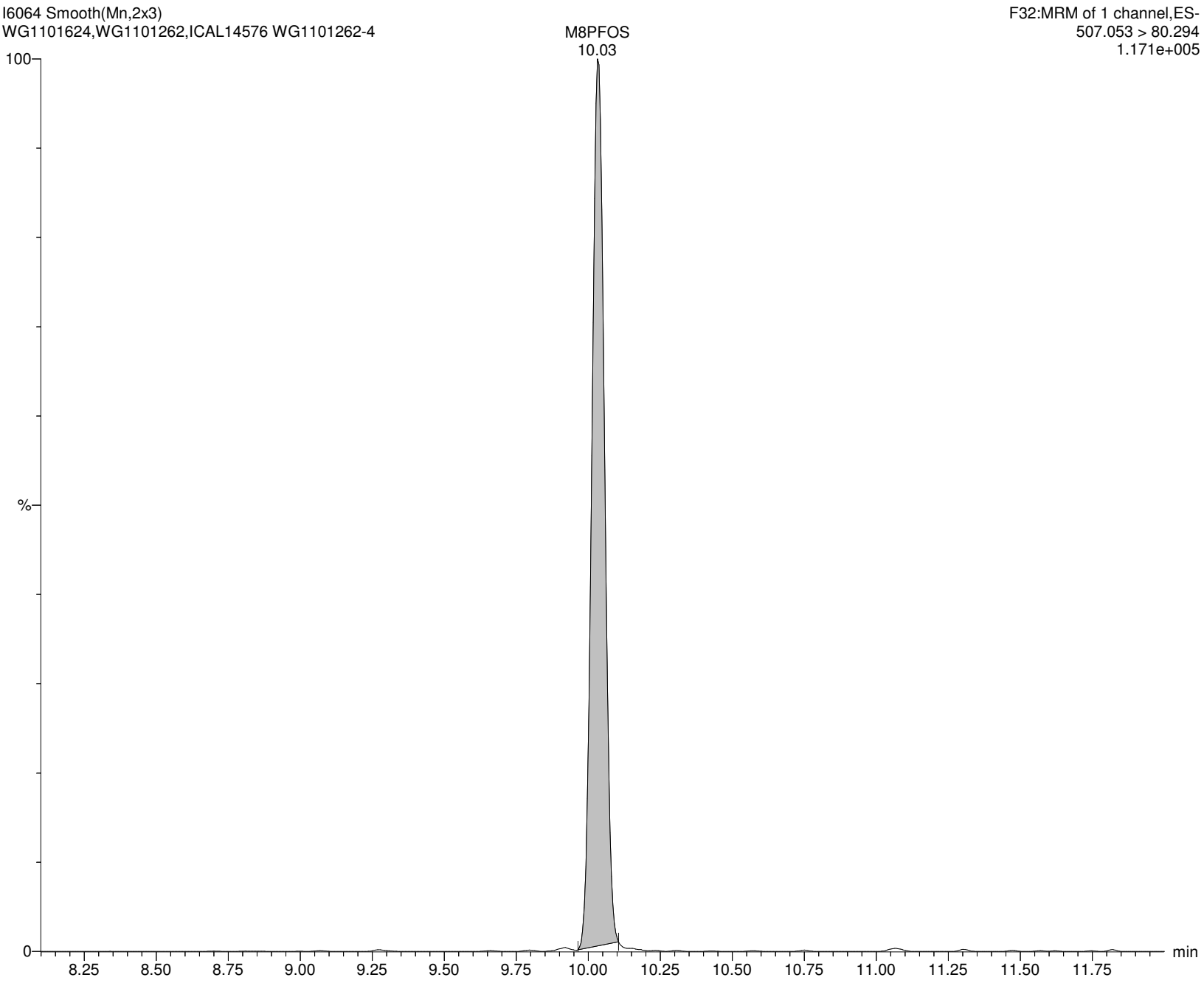

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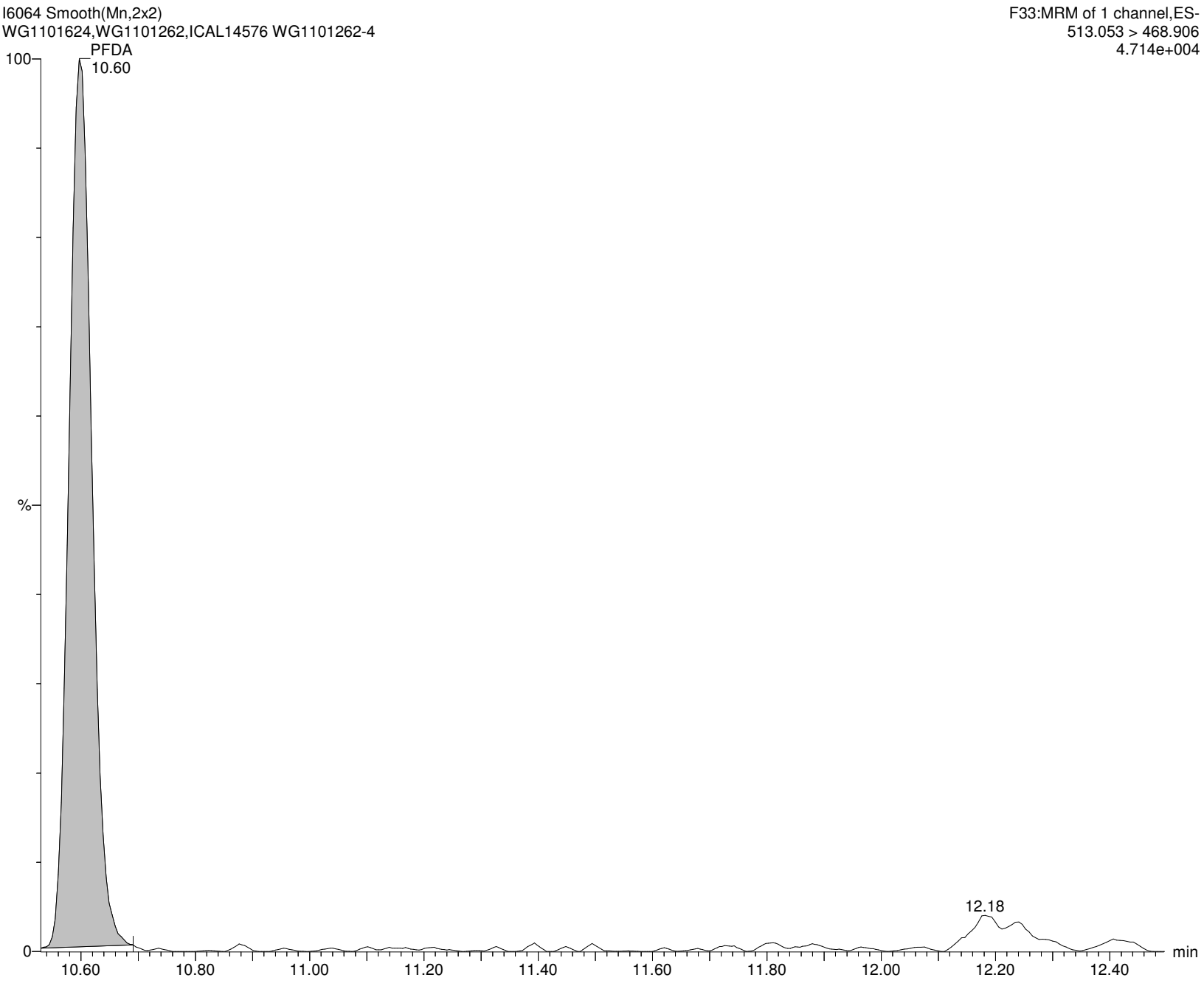

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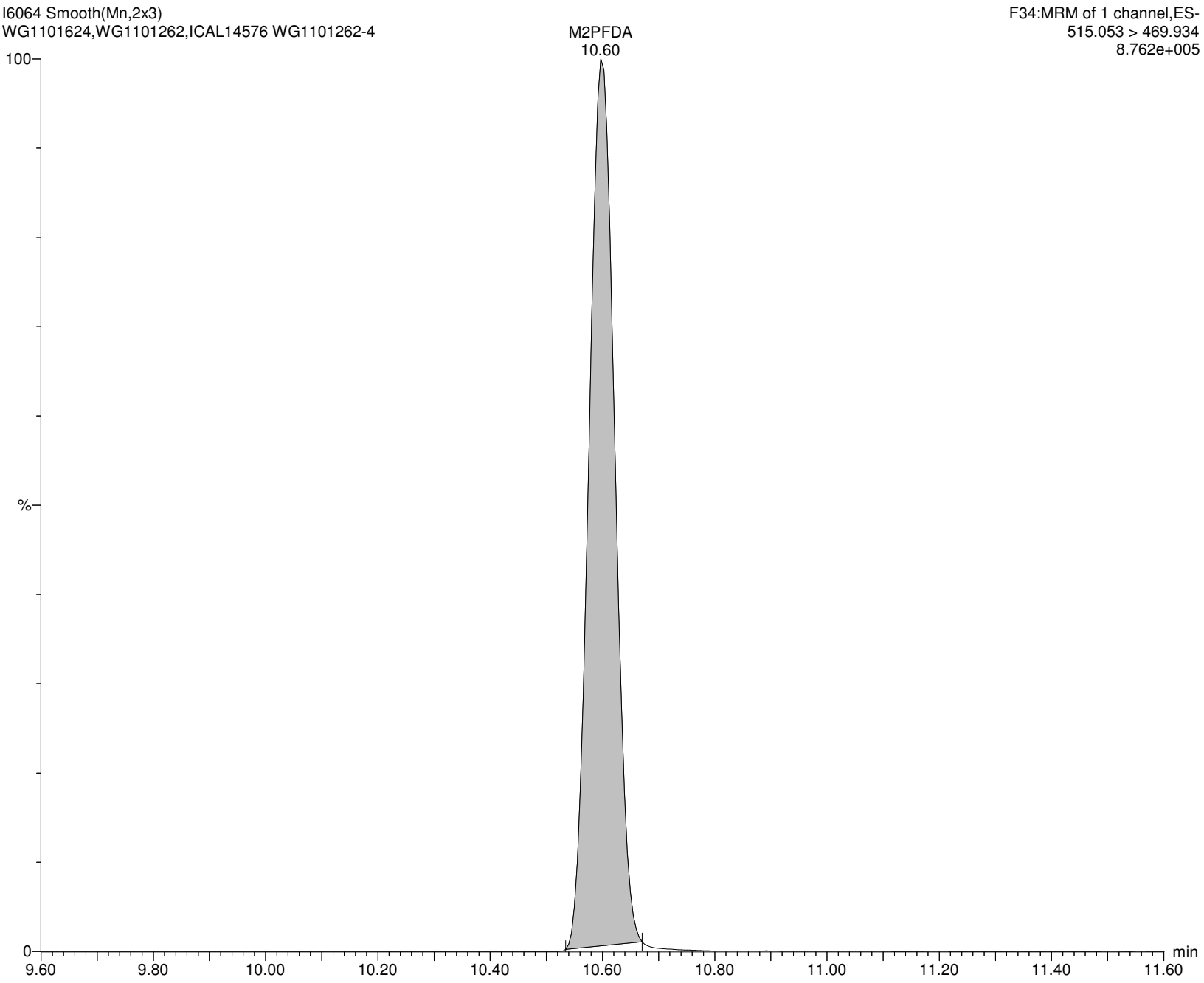

all concentration units in (ng/mL)

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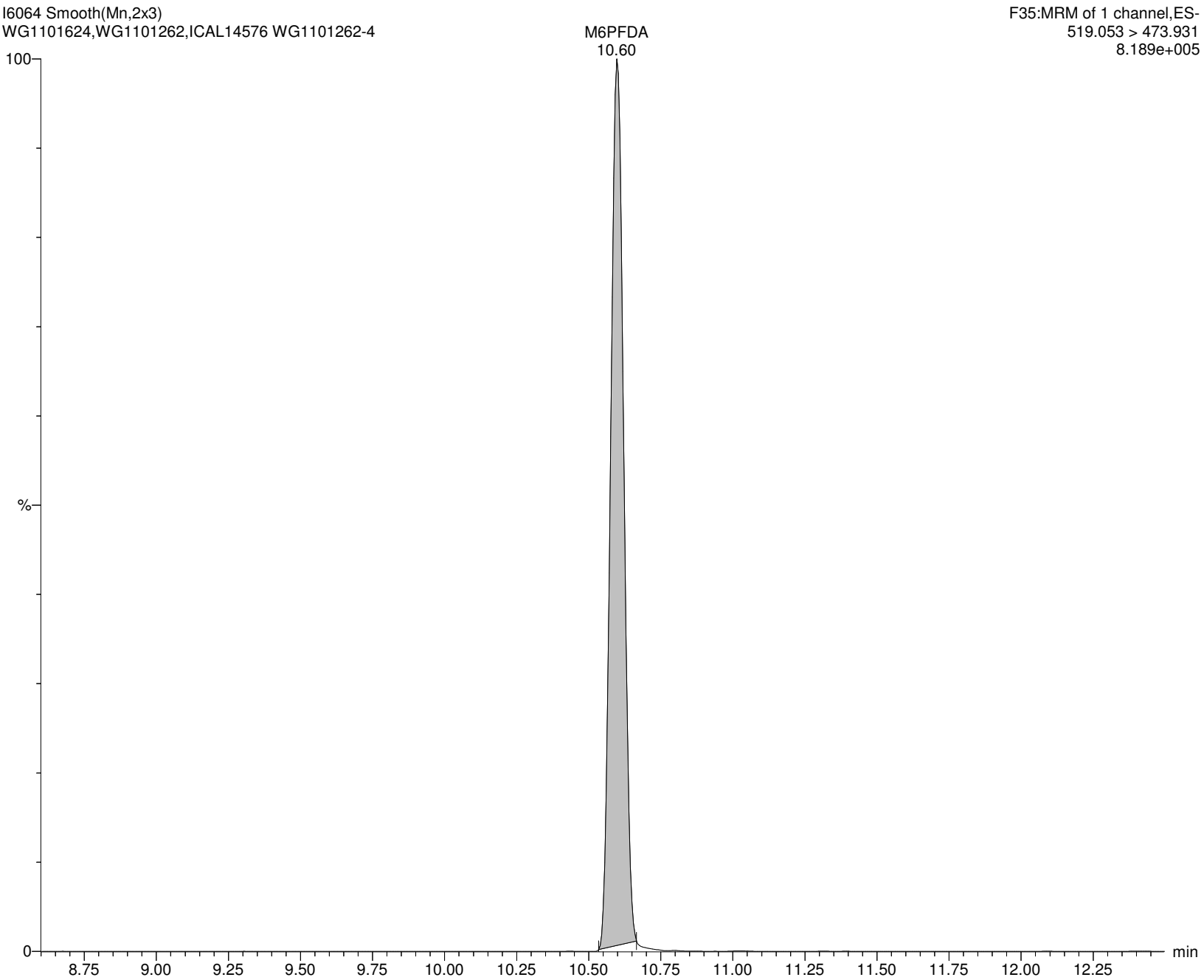

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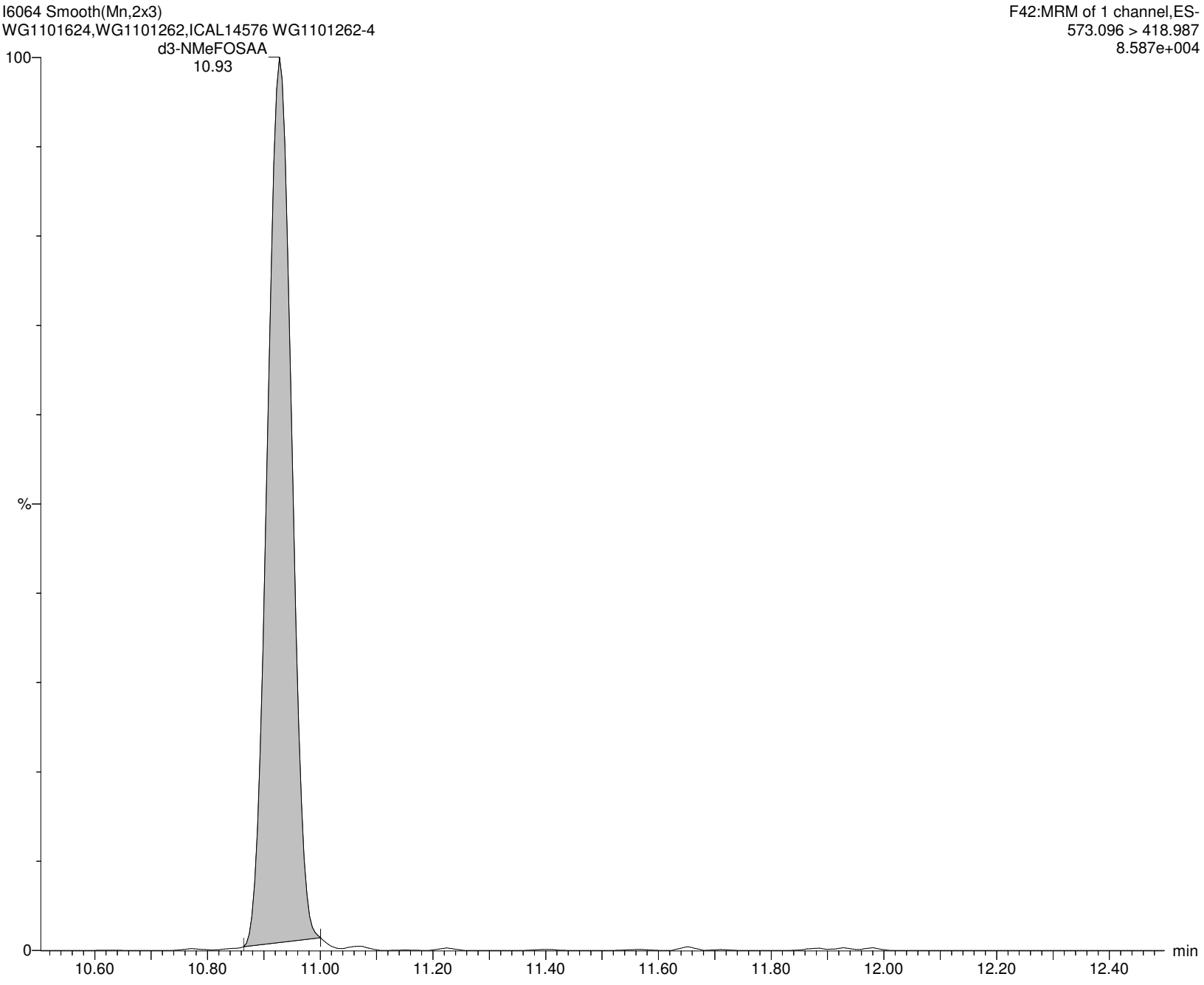
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:33:11 Eastern Daylight Time

Name: I6064
ID: WG1101262-4
Date: 29-Mar-2018
Time: 17:28:20
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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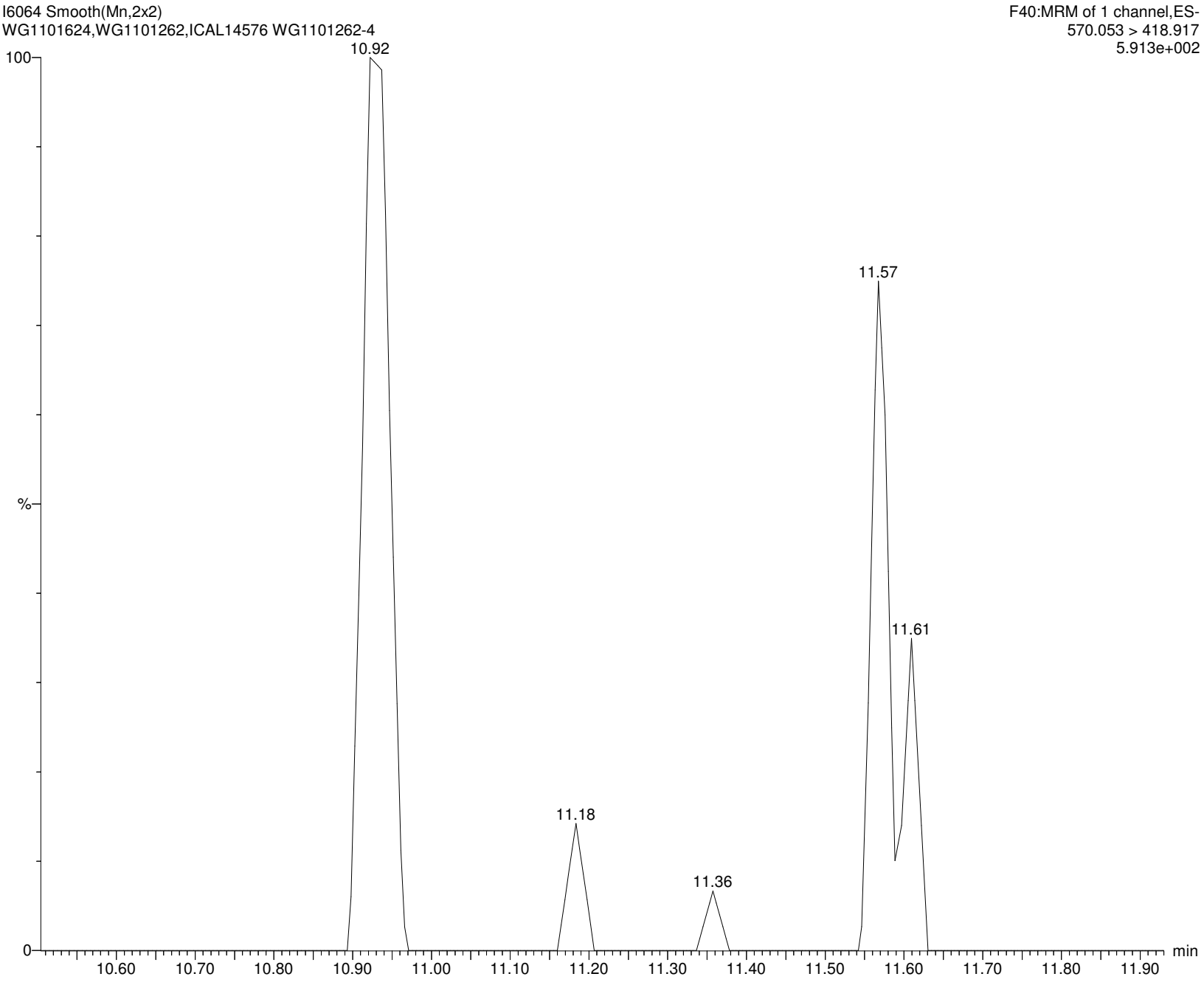

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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User: LCMS01:AJ
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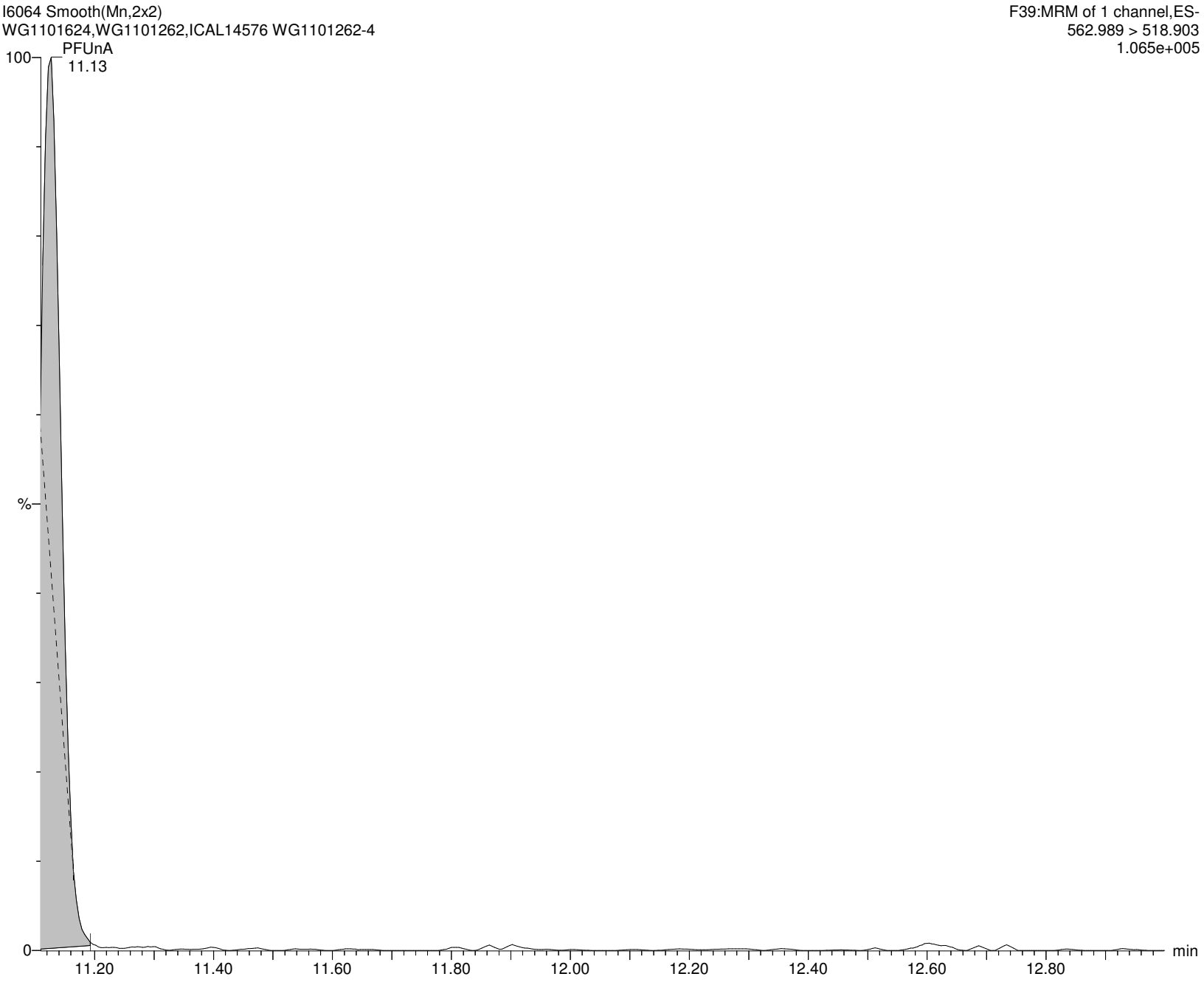

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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Vial: 2:B,7
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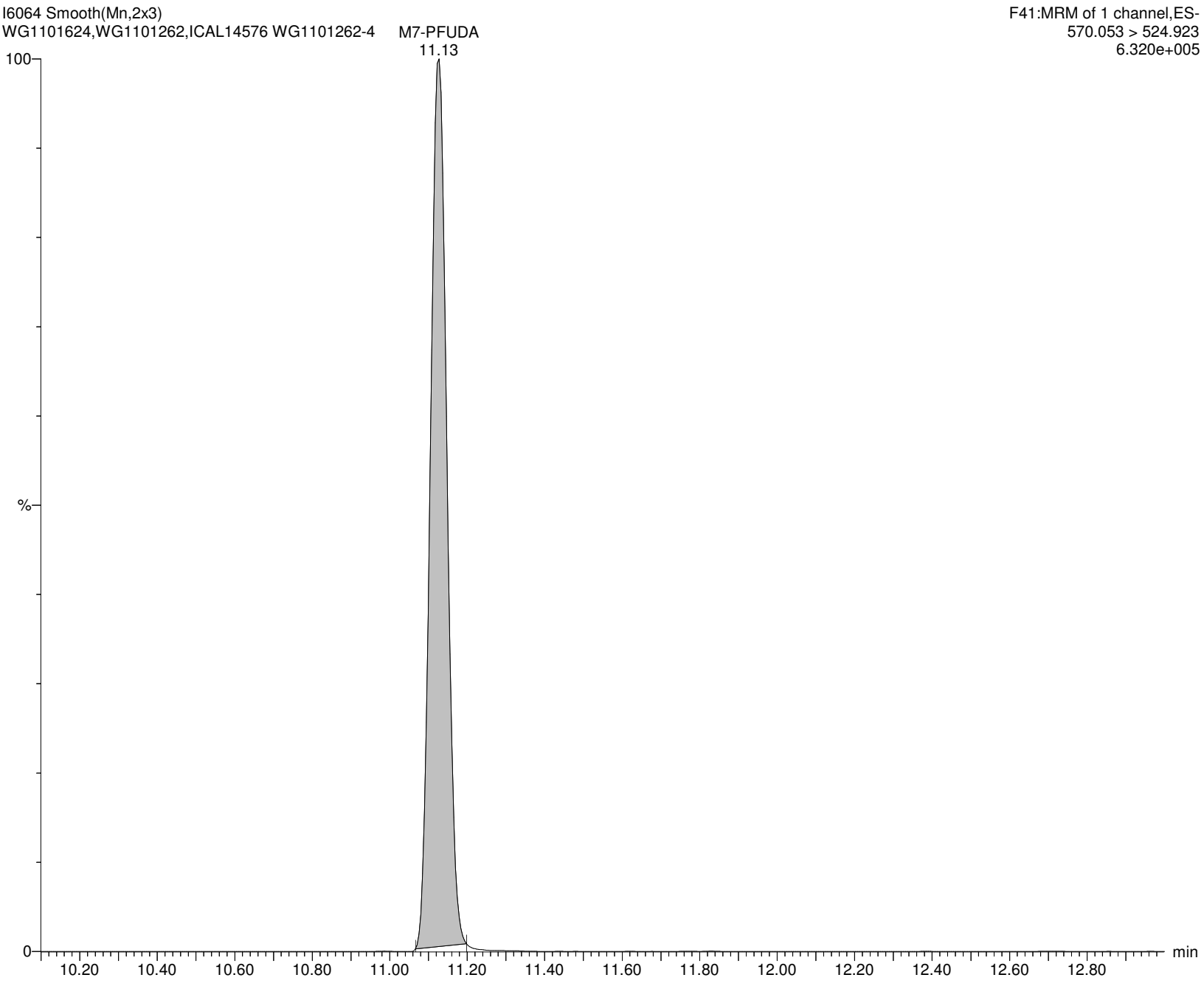
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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User: LCMS01:AJ
Vial: 2:B,7
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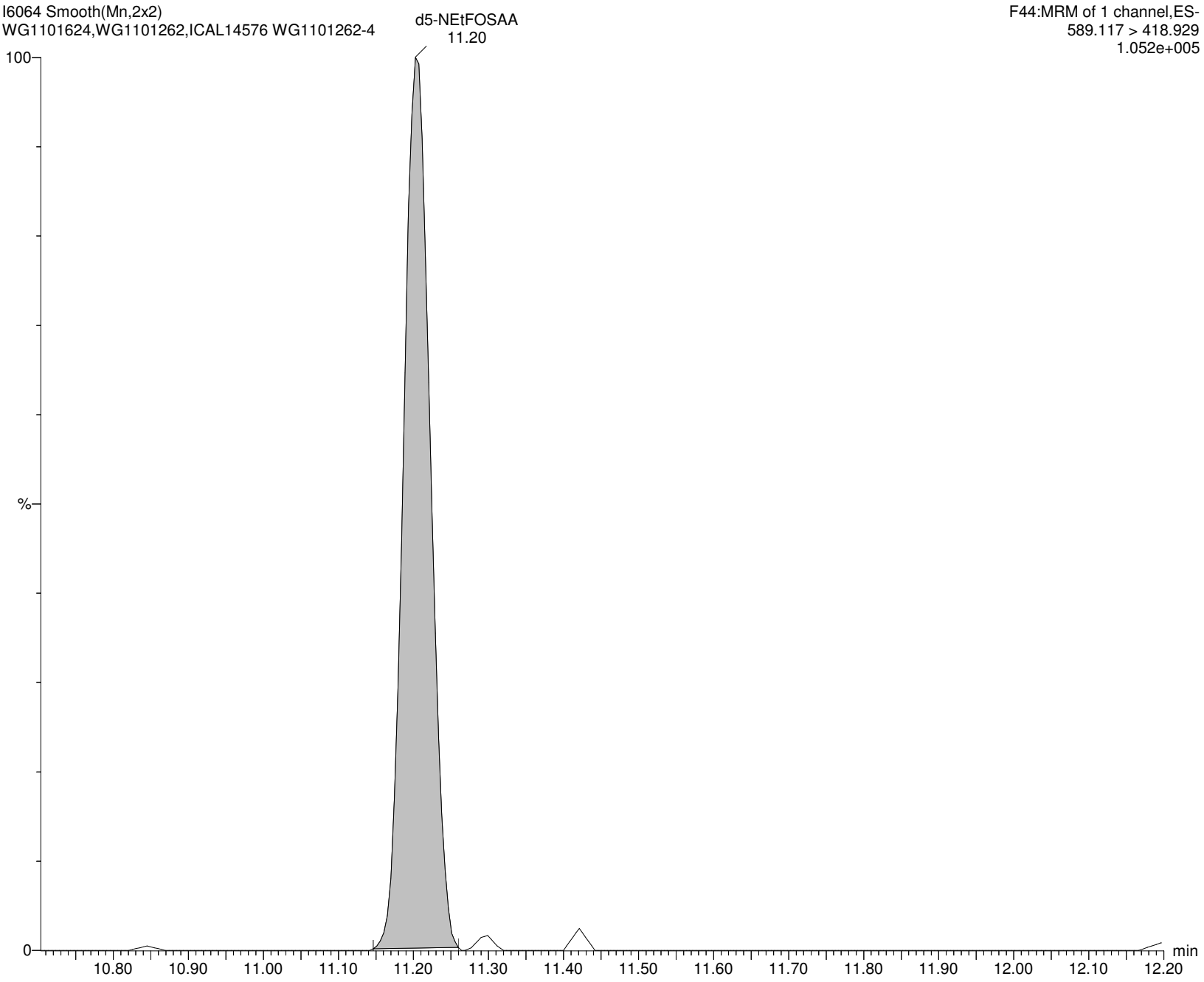
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
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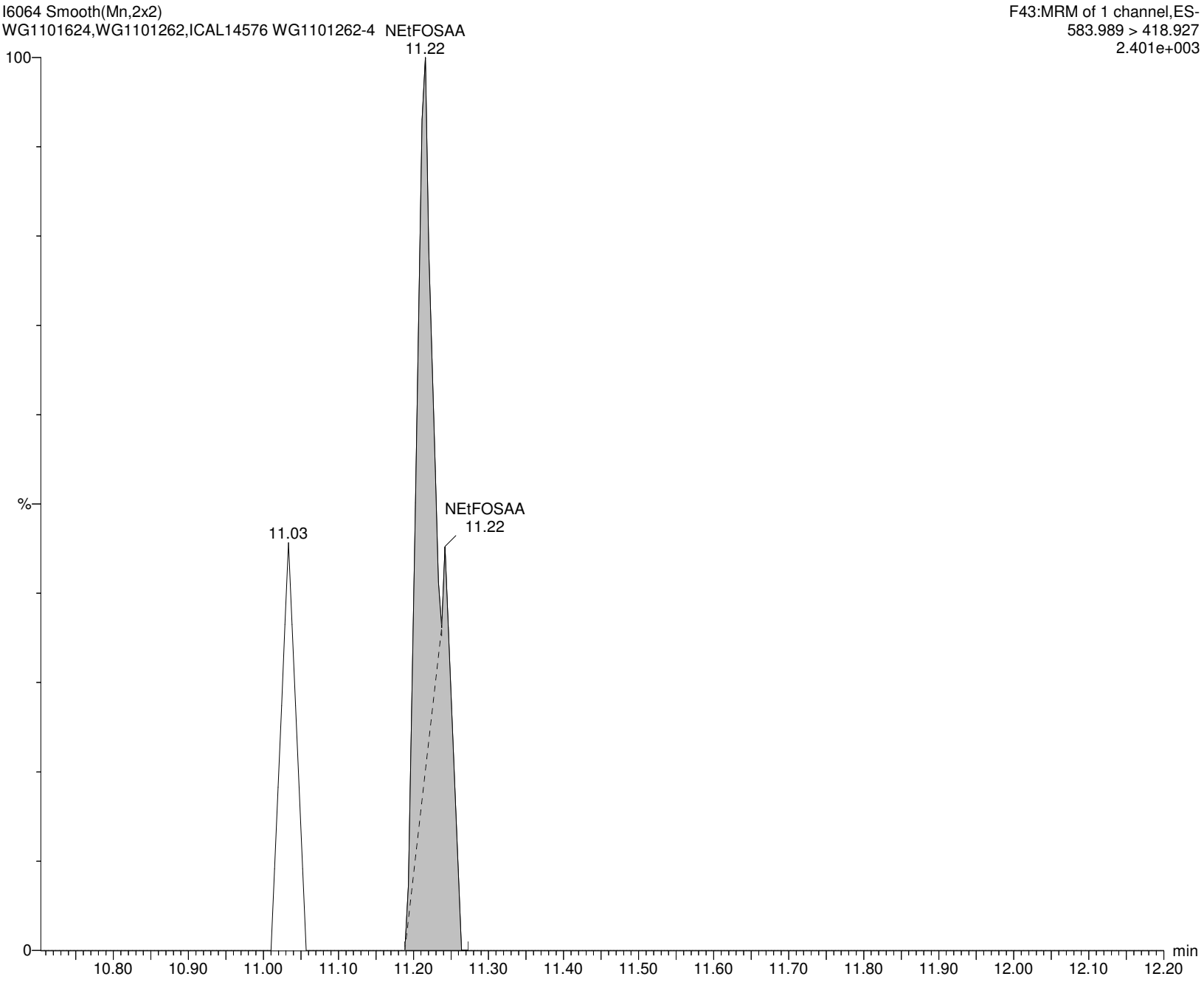

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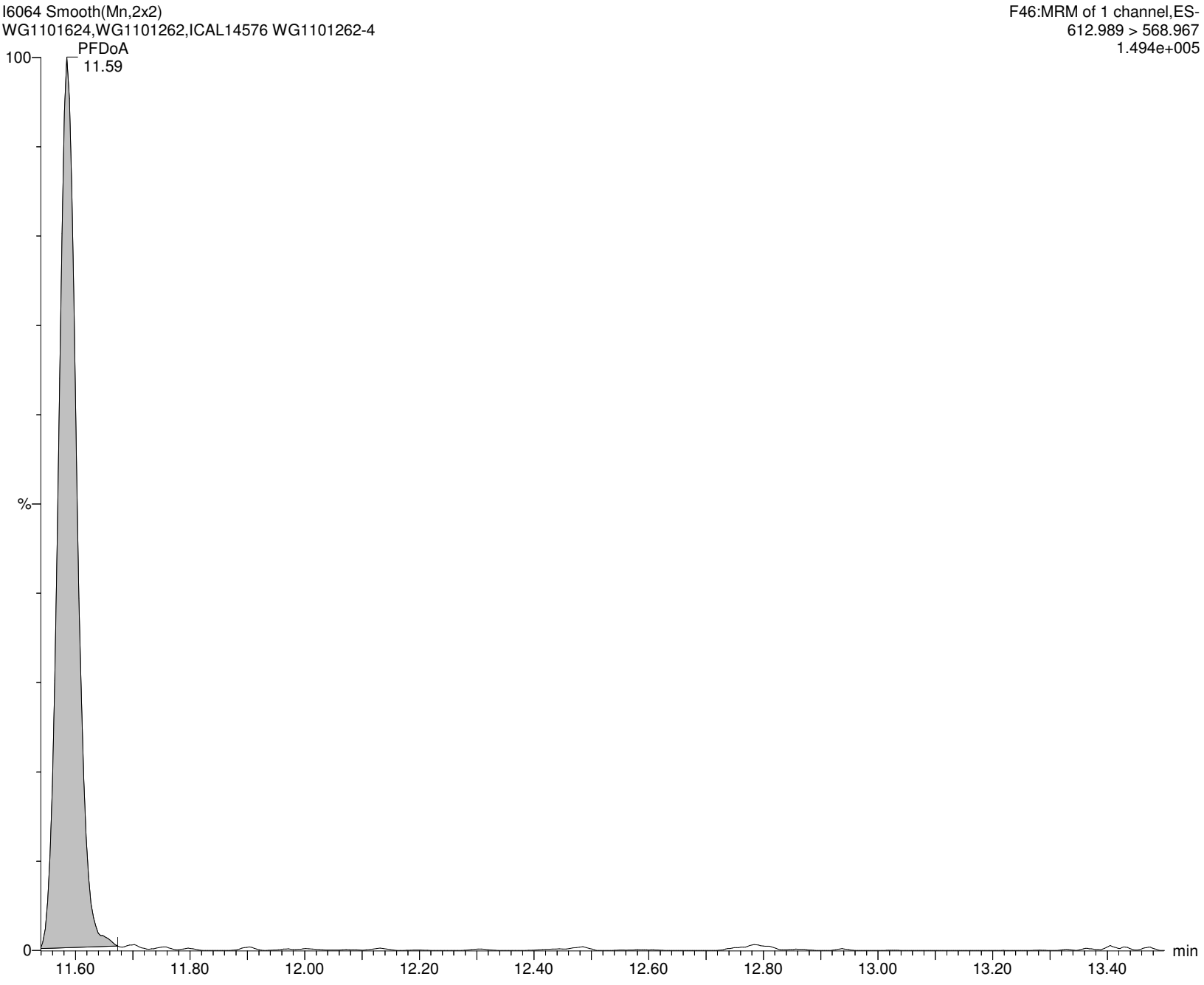

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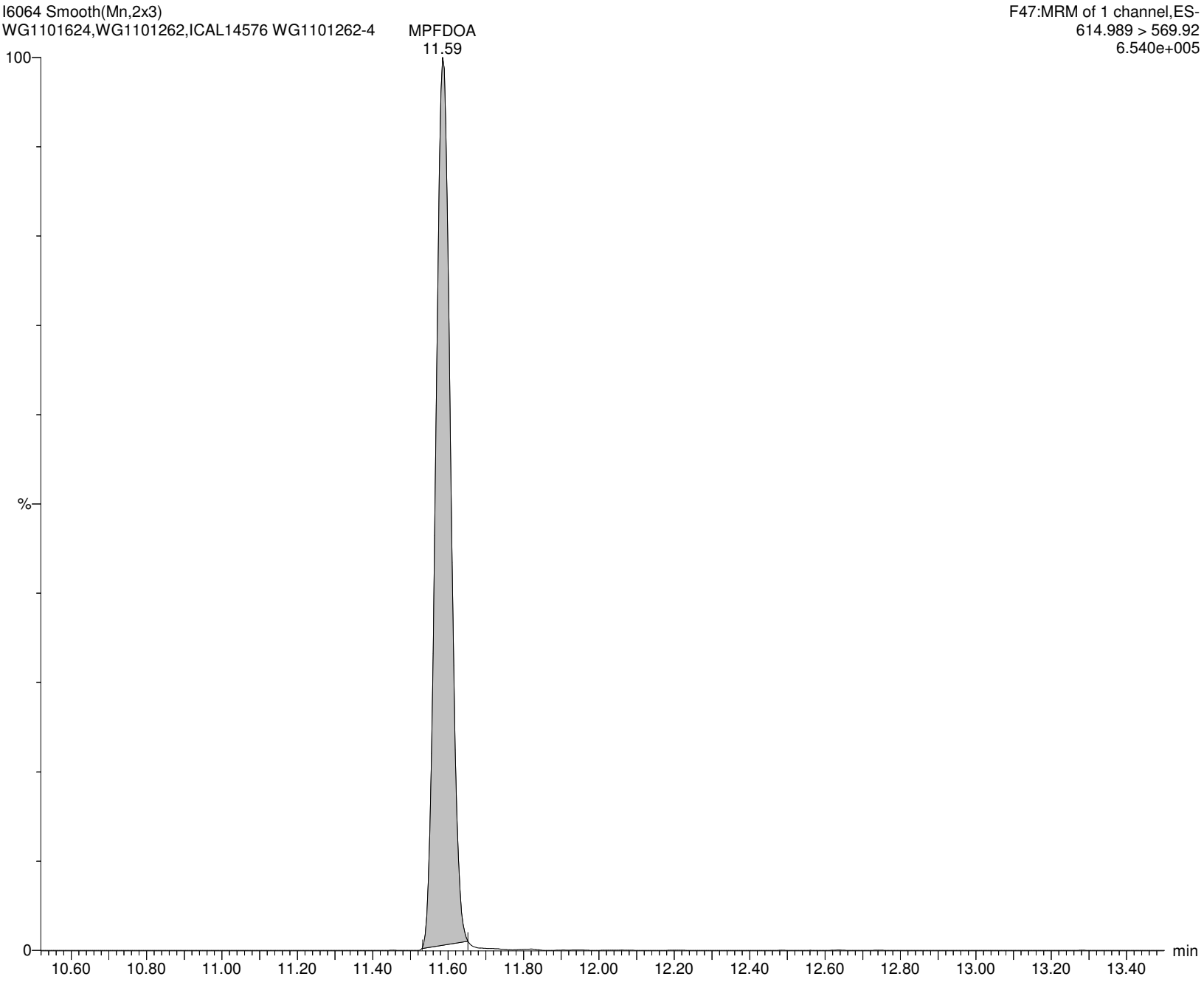

all concentration units in (ng/mL)

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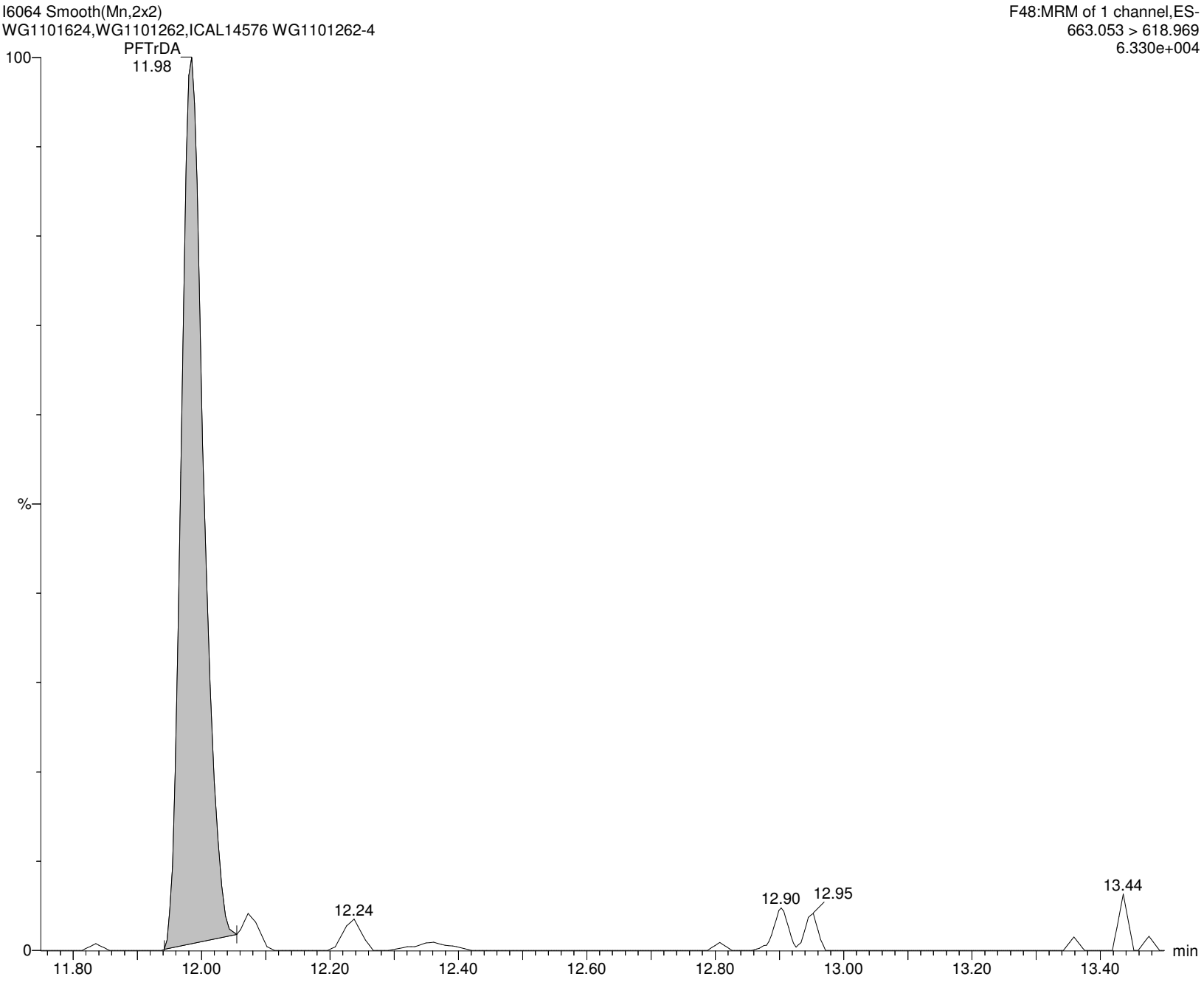

all concentration units in (ng/mL)

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Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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Date: 29-Mar-2018
Time: 17:28:20
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User: LCMS01:AJ
Vial: 2:B,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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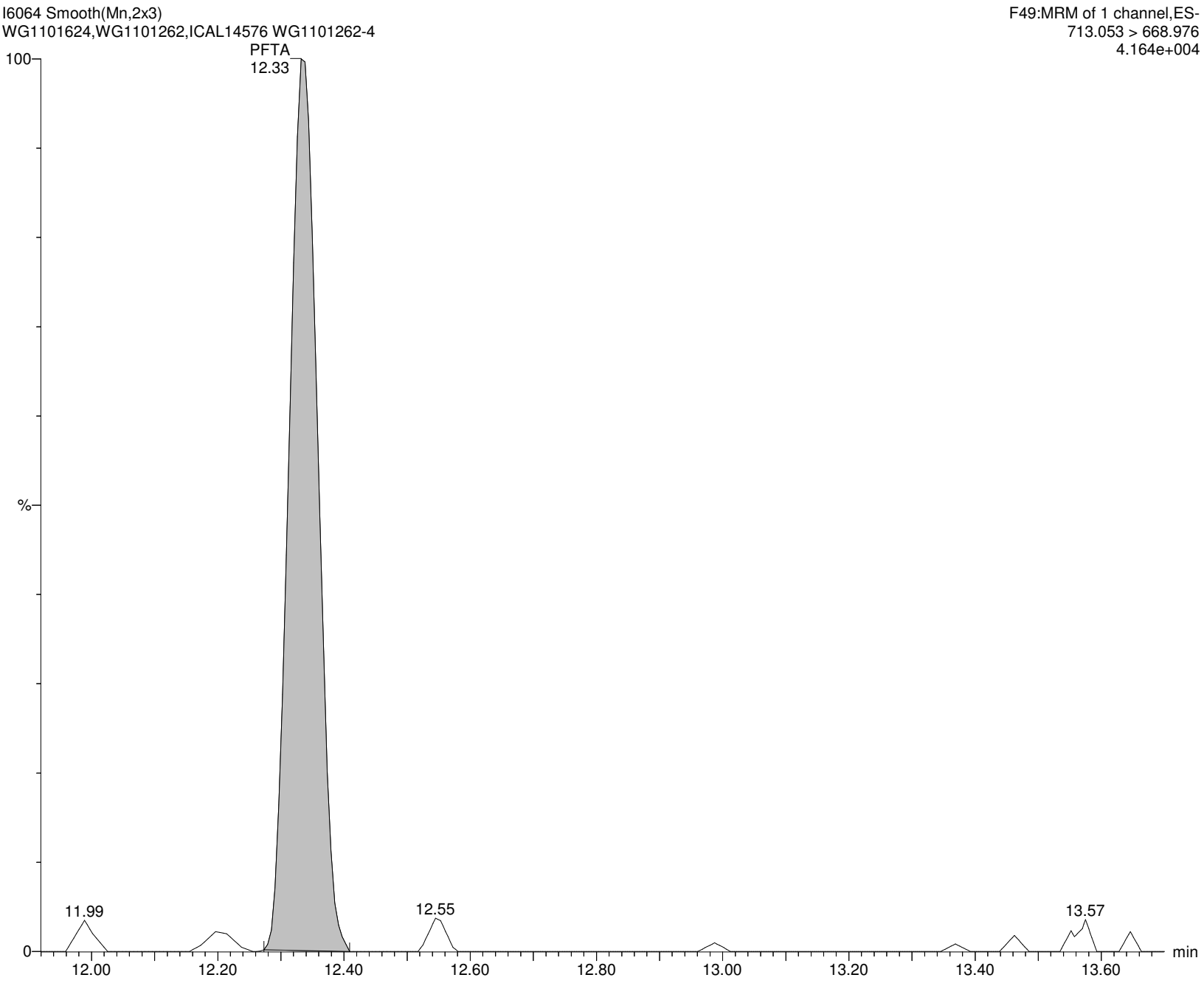

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262A.qld
Last Altered: Thursday, March 29, 2018 17:57:16 Eastern Daylight Time
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Name: I6064
ID: WG1101262-4
Date: 29-Mar-2018
Time: 17:28:20
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:B,7
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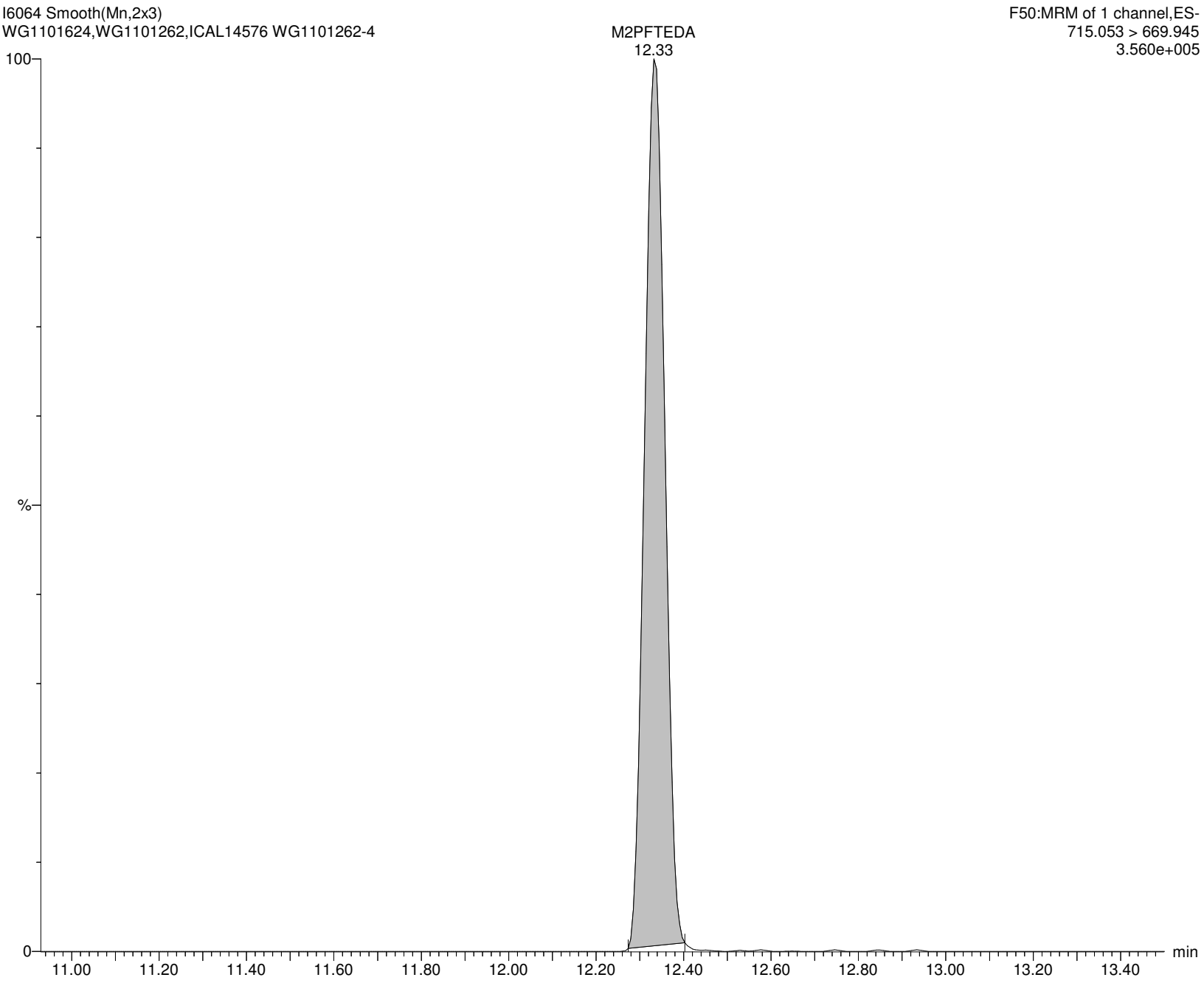

all concentration units in (ng/mL)

Matrix Spike / Matrix Spike Duplicate Raw Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180329_537ISO.PRO\MethDB\537ISO_Q.mdb 29 Mar 2018 16:10:01
Calibration: C:\MassLynx\Data\2018\180329_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

ID: WG1101262-5
Name: I6068
Date: 29-Mar-2018
Time: 18:34:29
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	19795		11.017		na	
2	M3PFBA	INT STD	2.23	215.926 > 172.122	43671		8.751		na	87.5
3	MPFBA	INT STD	2.23	216.926 > 172.137	24411		5.002		na	50.0
4	PFPeA	2706-90-3	5.13	262.926 > 219.002	26110		12.490		na	
5	M5PFPEA	INT STD	5.13	TIC	26588		5.286		na	52.9
6	PFBS	375-73-5	5.80	298.989 > 80.295	5639		11.302		na	
7	M3PFBS	INT STD	5.80	301.989 > 80.254	5074		4.119		na	41.2
8	4:2FTS	757124-72-4	6.96	326.926 > 306.957	1630		11.137		na	
9	M2-4:2FTS	INT STD	6.96	328.989 > 80.973	439		2.762		na	27.6
10	PFHxA	307-24-4	7.04	312.989 > 269.028	58294		21.769		na	
11	M5PFHxA	INT STD	7.04	317.989 > 273.045	29623		4.324		na	43.2
12	PFPeS	2706-91-4	7.36	348.926 > 80.251	5831		11.943		na	
13	PFHpA	375-85-9	8.30	362.926 > 319.014	46018		14.193		na	
14	M4PFHpA	INT STD	8.30	366.926 > 321.979	35268		4.532		na	45.3
15	br-PFHxS	355-46-4	8.23	398.926 > 80.295	2044		4.192		na	
16	L-PFHxS	355-46-4	8.46	398.926 > 80.295	9618		20.173		na	
17	PFHxS	355-46-4		398.926 > 80.295	11663		24.365		na	
18	M3PFHxS	INT STD	8.47	401.926 > 80.317	5051		4.459		na	44.6
19	br-PFOA	335-67-1	9.01	412.989 > 368.9	790		0.229		na	
20	L-PFOA	335-67-1	9.24	412.989 > 368.9	44601		12.944		na	
21	M2PFOA	INT STD	9.24	415.032 > 369.968	71178		11.502		na	115.0
22	PFOA	335-67-1		412.989 > 368.9	45391		13.173		na	
23	M8PFOA	INT STD	9.23	420.989 > 375.979	33243		4.809		na	48.1
24	6:2FTS	27619-97-2	9.19	426.989 > 406.921	4108		25.339		na	
25	M2-6:2FTS	INT STD	9.20	428.989 > 408.917	1778		2.964		na	29.6
26	PFHpS	375-92-8	9.33	448.926 > 80.257	3166		9.904		na	
27	PFNA	375-95-1	9.98	462.989 > 418.931	34645		13.893		na	
28	M9PFNA	INT STD	9.97	472.053 > 426.947	29921		4.606		na	46.1
29	br-PFOS	1763-23-1	9.78	498.989 > 80.294	1803		2.816		na	
30	L-PFOS	1763-23-1	10.03	498.989 > 80.294	3799		8.398		na	
31	PFOS	1763-23-1		498.989 > 80.294	5602		11.214		na	
32	M4PFOS	INT STD	10.03	503.032 > 80.306	7504		12.375		na	123.8
33	M8PFOS	INT STD	10.03	507.053 > 80.294	4620		5.043		na	50.4
34	PFDA	335-76-2	10.59	513.053 > 468.906	24895		10.899		na	
35	M2PFDA	INT STD	10.60	515.053 > 469.934	43712		10.426		na	104.3
36	M6PFDA	INT STD	10.59	519.053 > 473.931	26868		5.090		na	50.9
37	8:2FTS	39108-34-4	10.59	526.989 > 506.946	1294		15.026		na	
38	M2-8:2FTS	INT STD	10.59	529.117 > 80.953	253		2.733		na	27.3
39	PFNS	68259-12-1	10.62	548.989 > 80.249	3501		11.142		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

ID: WG1101262-5
Name: I6068
Date: 29-Mar-2018
Time: 18:34:29
Description: WG1101624,WG1101262,ICAL14576
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:AJ
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.92	573.096 > 418.987	2312		3.425		na	34.3
41	NMeFOSAA	2355-31-9	10.93	570.053 > 418.917	2710		11.159		na	
42	PFUnA	2058-94-8	11.12	562.989 > 518.903	21597		9.814		na	
43	M7-PFUDA	INT STD	11.12	570.053 > 524.923	21381		4.951		na	49.5
44	PFDS	335-77-3	11.14	598.926 > 80.314	3566		10.076		na	
45	FOSA	754-91-6	11.06	497.989 > 78.245	10053		10.074		na	
46	M8FOSA	INT STD	11.06	506.053 > 78.286	12221		5.247		na	52.5
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	2276		3.559		na	35.6
48	NEtFOSAA	2991-50-6	11.21	583.989 > 418.927	1883		9.012		na	
49	PFDoA	307-55-1	11.59	612.989 > 568.967	22134		10.379		na	
50	MPFDOA	INT STD	11.59	614.989 > 569.92	21784		4.875		na	48.7
51	PFTrDA	72629-94-8	11.99	663.053 > 618.969	15993		7.941		na	
52	PFTA	376-06-7	12.34	713.053 > 668.976	13926		12.722		na	
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	12833		3.653		na	36.5

all concentration units in (ng/mL)

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Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

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Name: I6068
ID: WG1101262-5
Date: 29-Mar-2018
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Vial: 2:C,3
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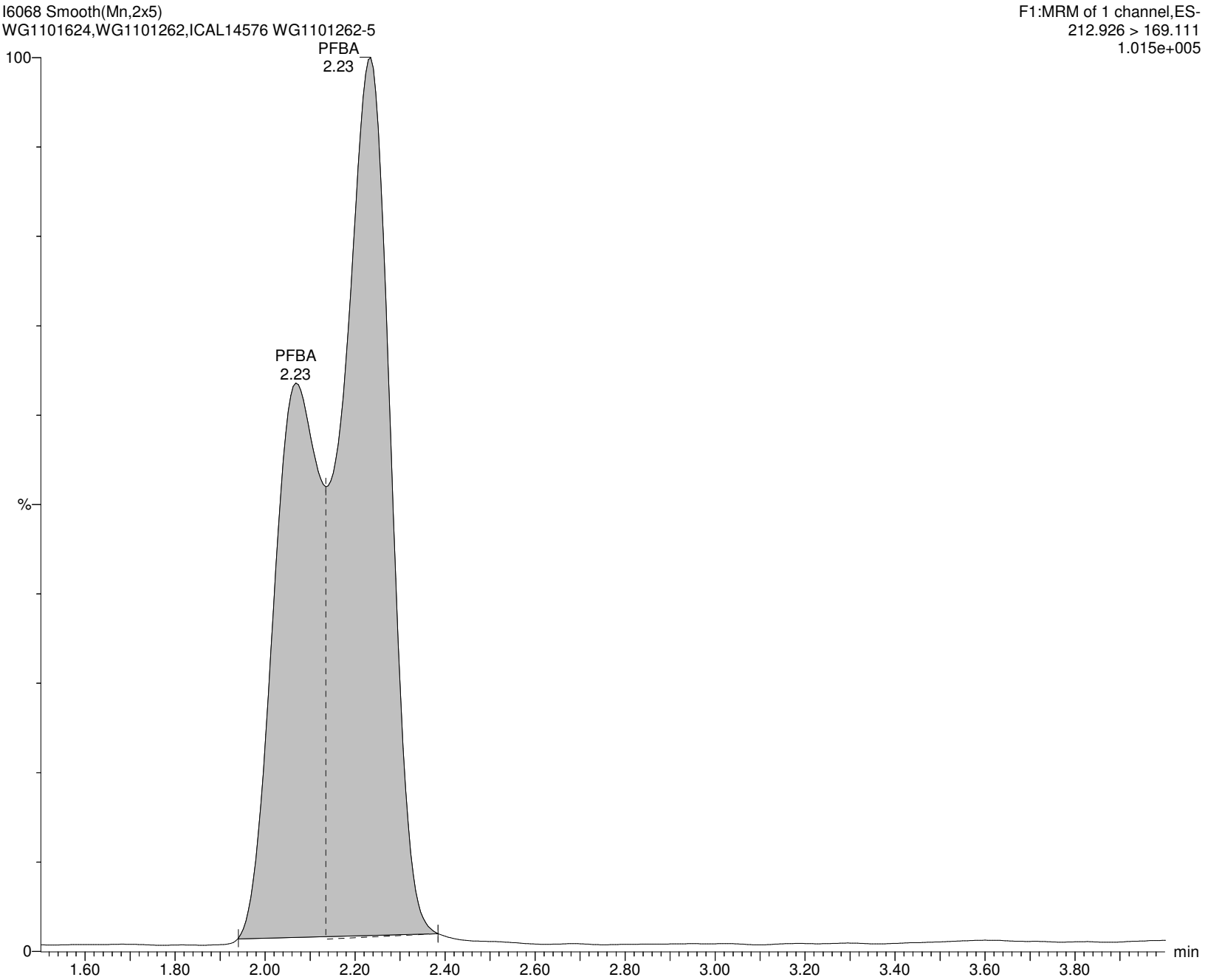
MS Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\537ISO26_M.EXP

PFBA



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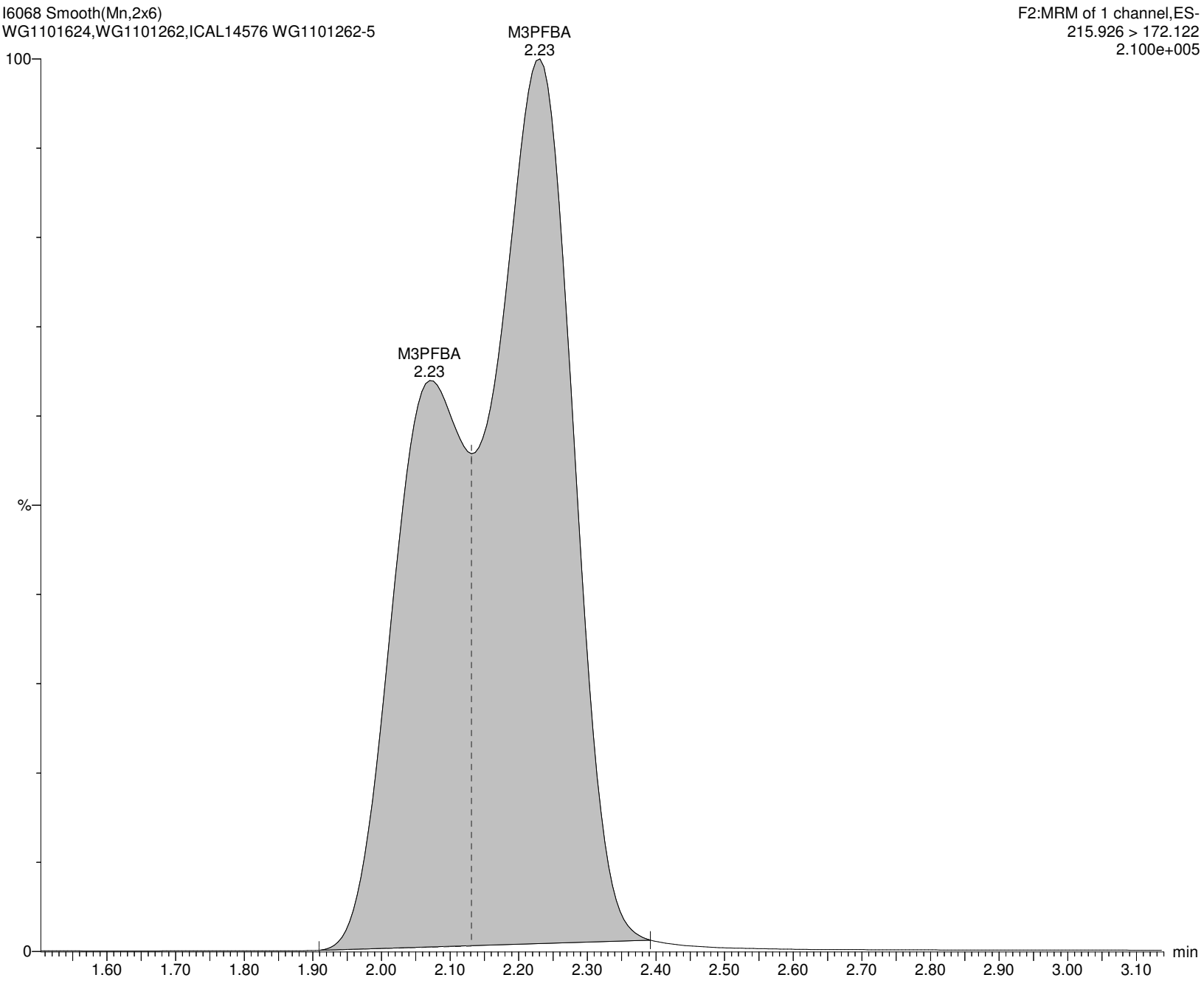

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

Name: I6068
ID: WG1101262-5
Date: 29-Mar-2018
Time: 18:34:29
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
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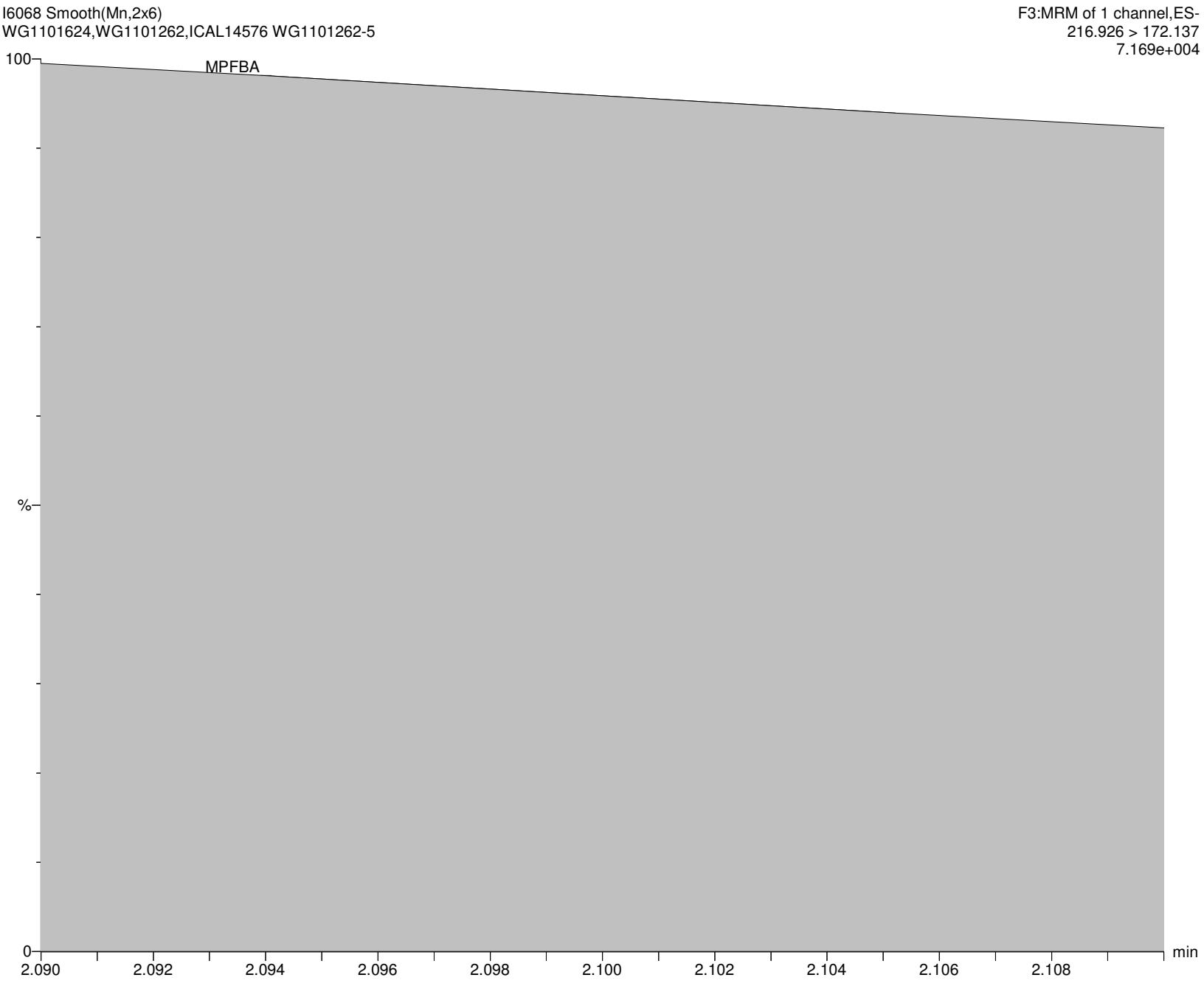

all concentration units in (ng/mL)

Alpha Analytical Inc.
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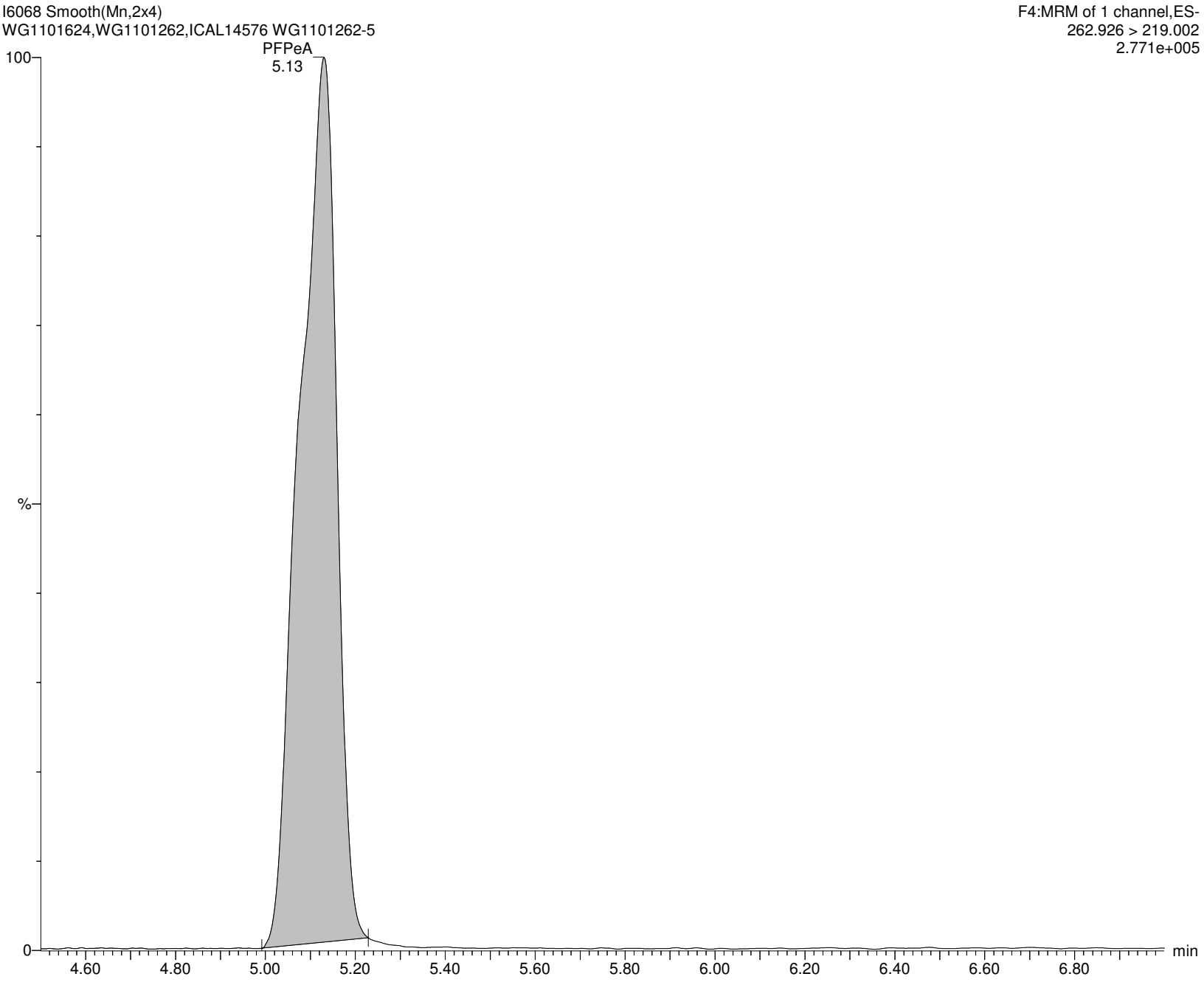

all concentration units in (ng/mL)

Alpha Analytical Inc.
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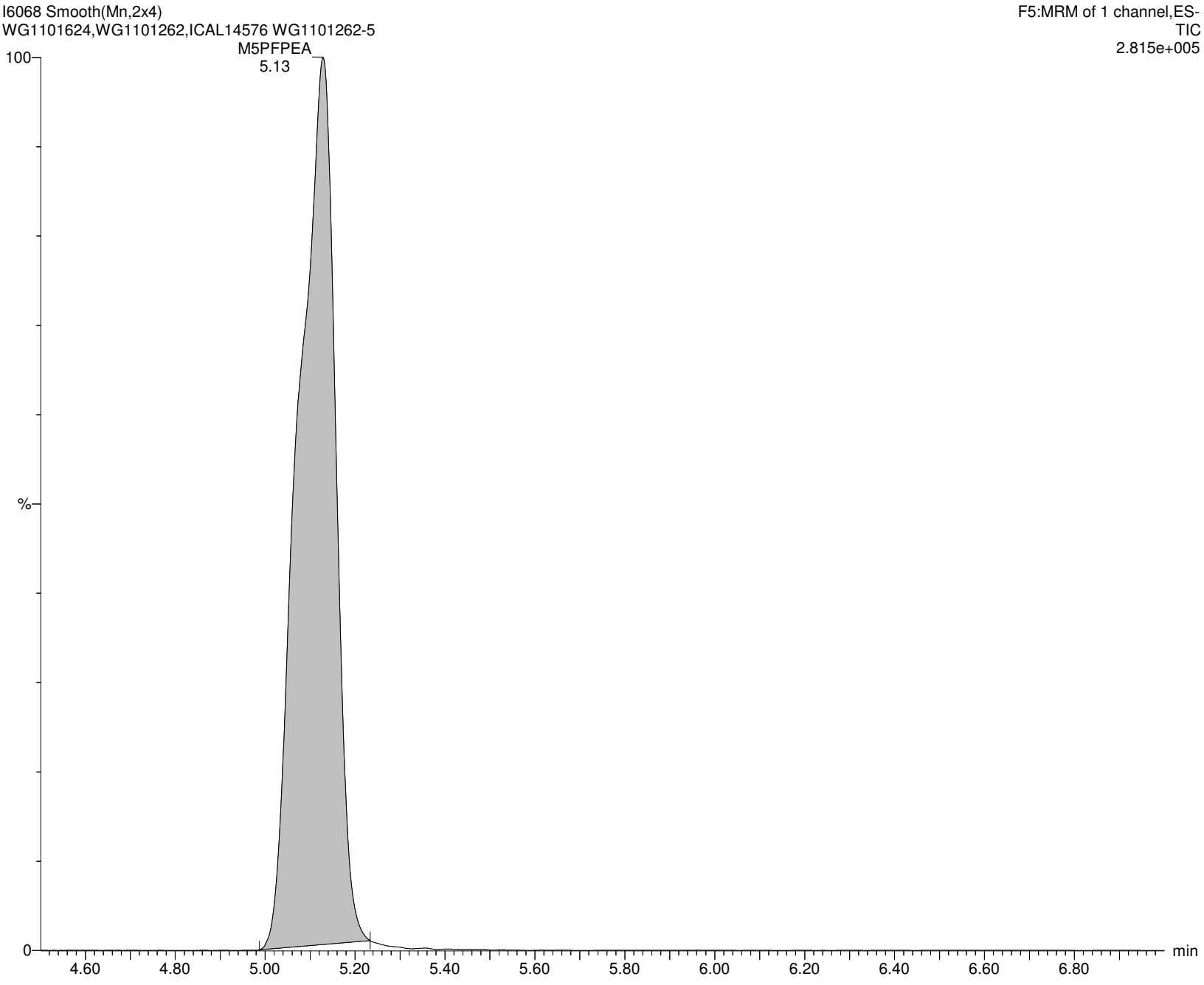

all concentration units in (ng/mL)

Alpha Analytical Inc.
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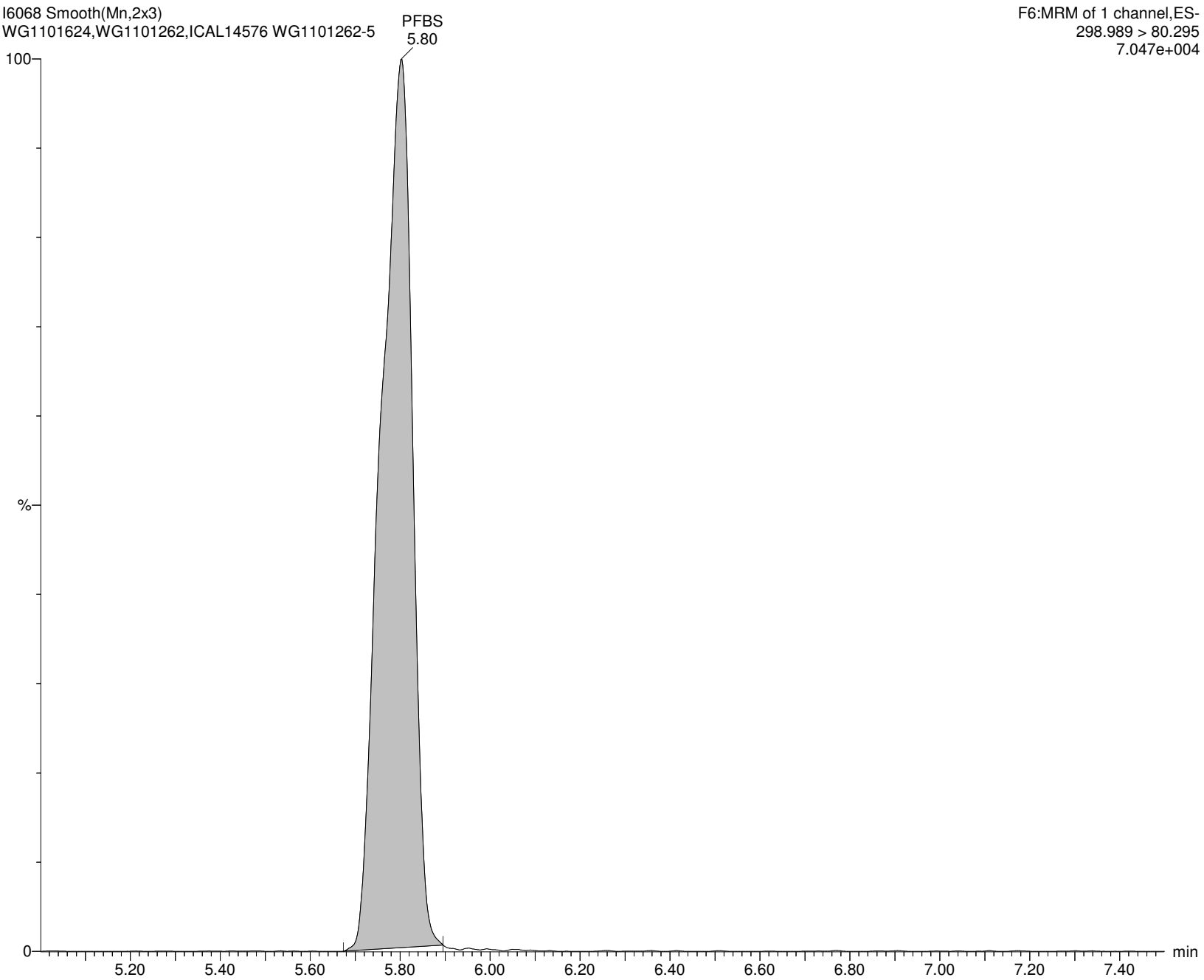

all concentration units in (ng/mL)

Alpha Analytical Inc.
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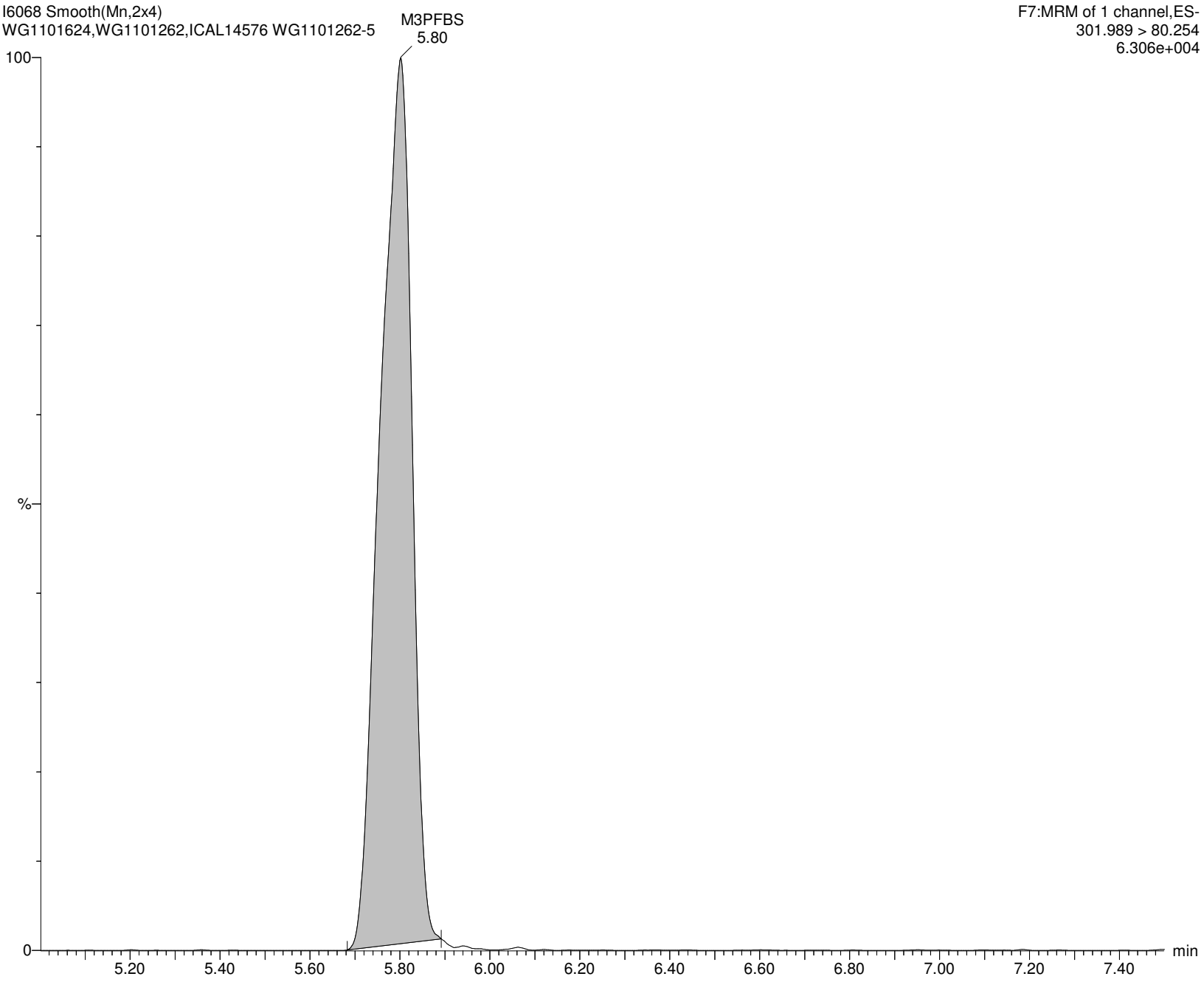

all concentration units in (ng/mL)

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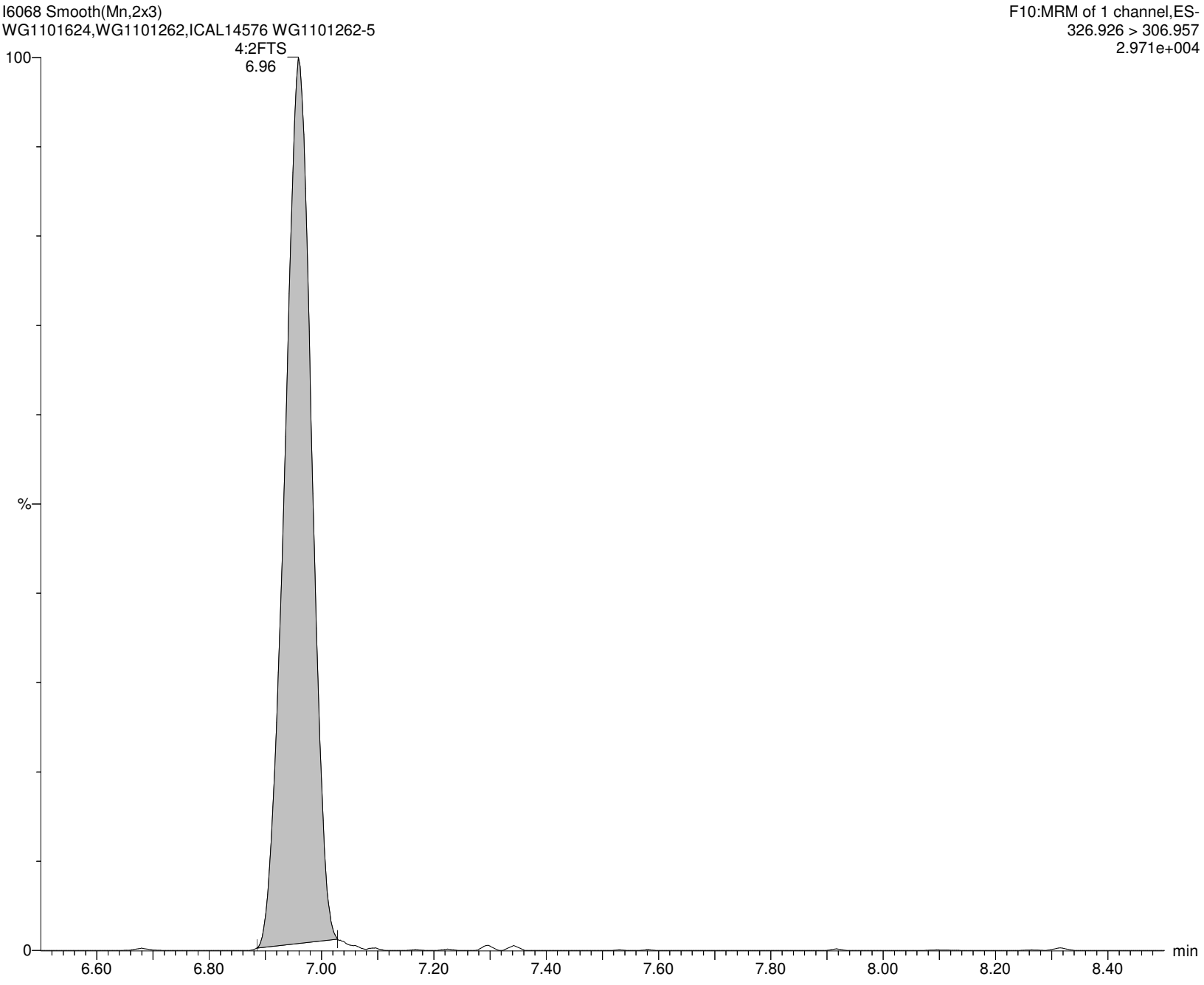
4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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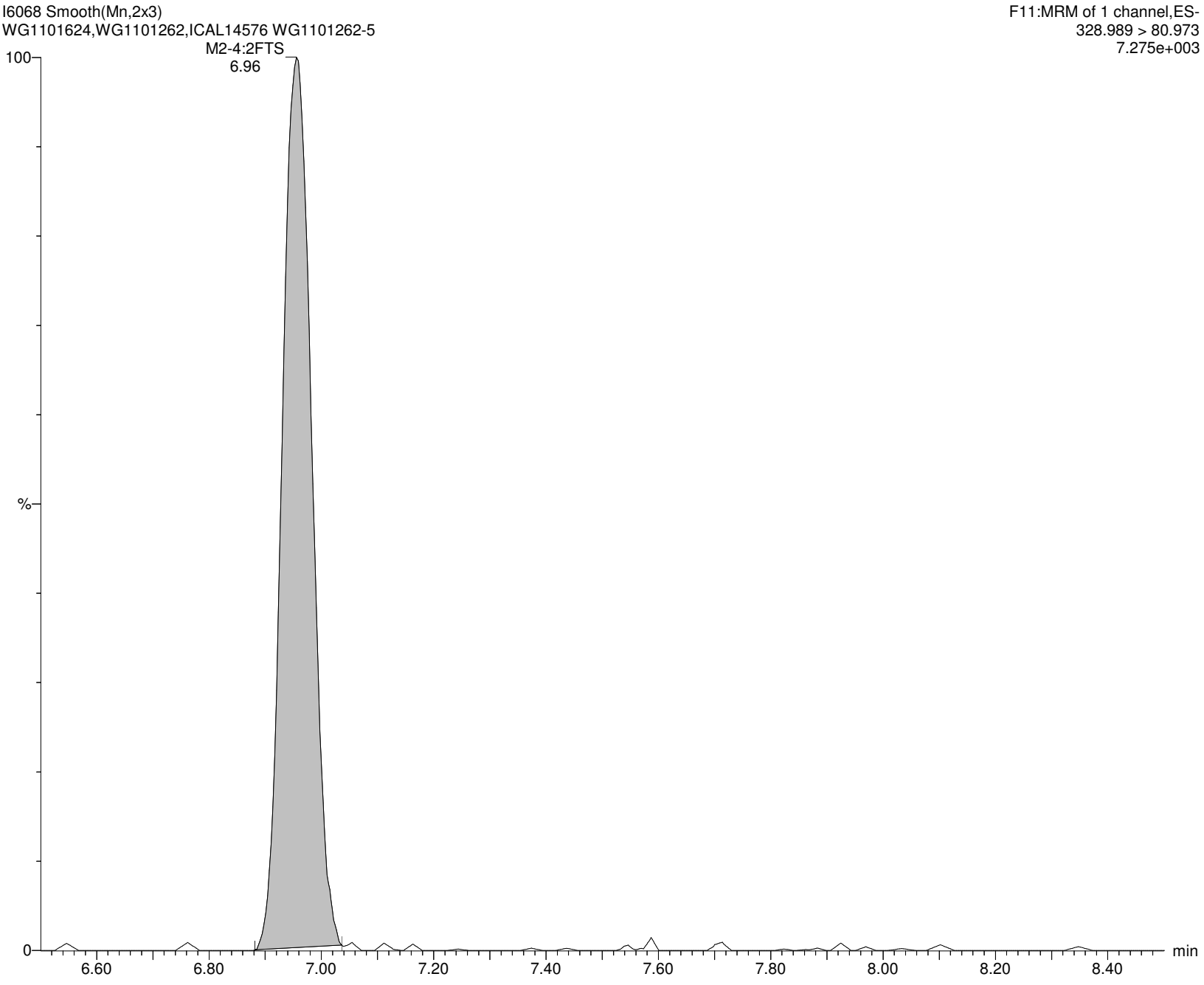

all concentration units in (ng/mL)

Alpha Analytical Inc.
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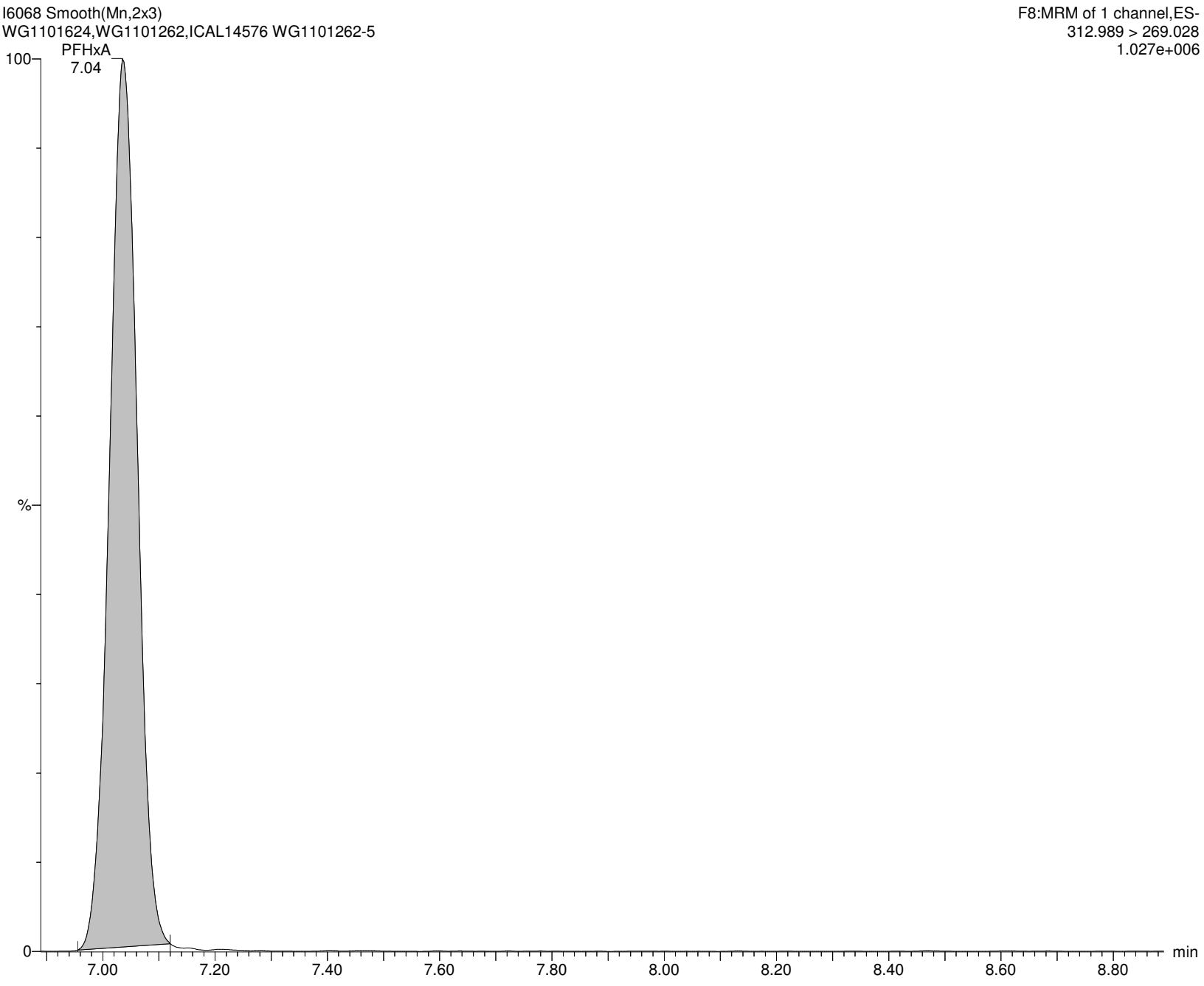

all concentration units in (ng/mL)

Alpha Analytical Inc.
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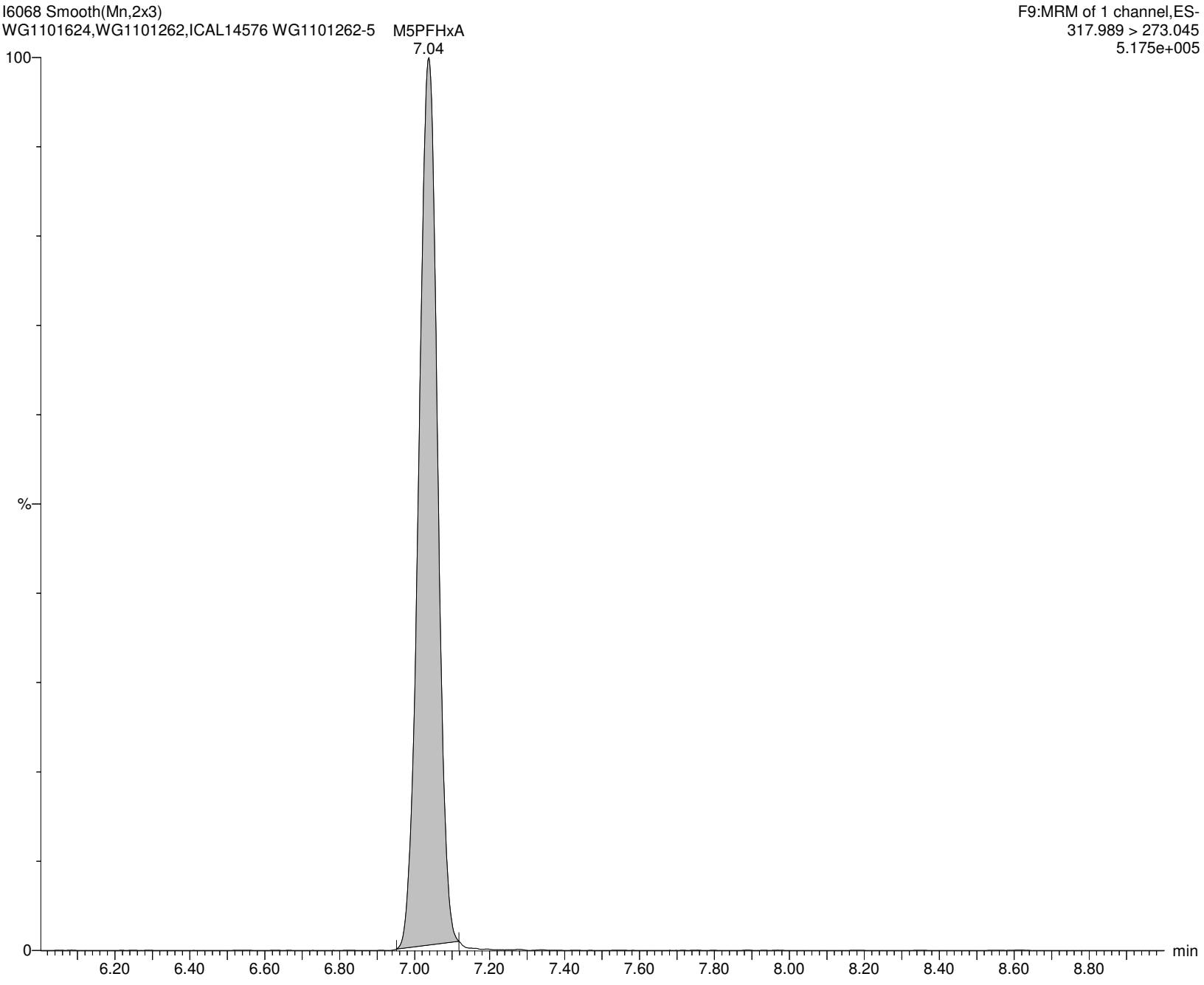

all concentration units in (ng/mL)

Alpha Analytical Inc.
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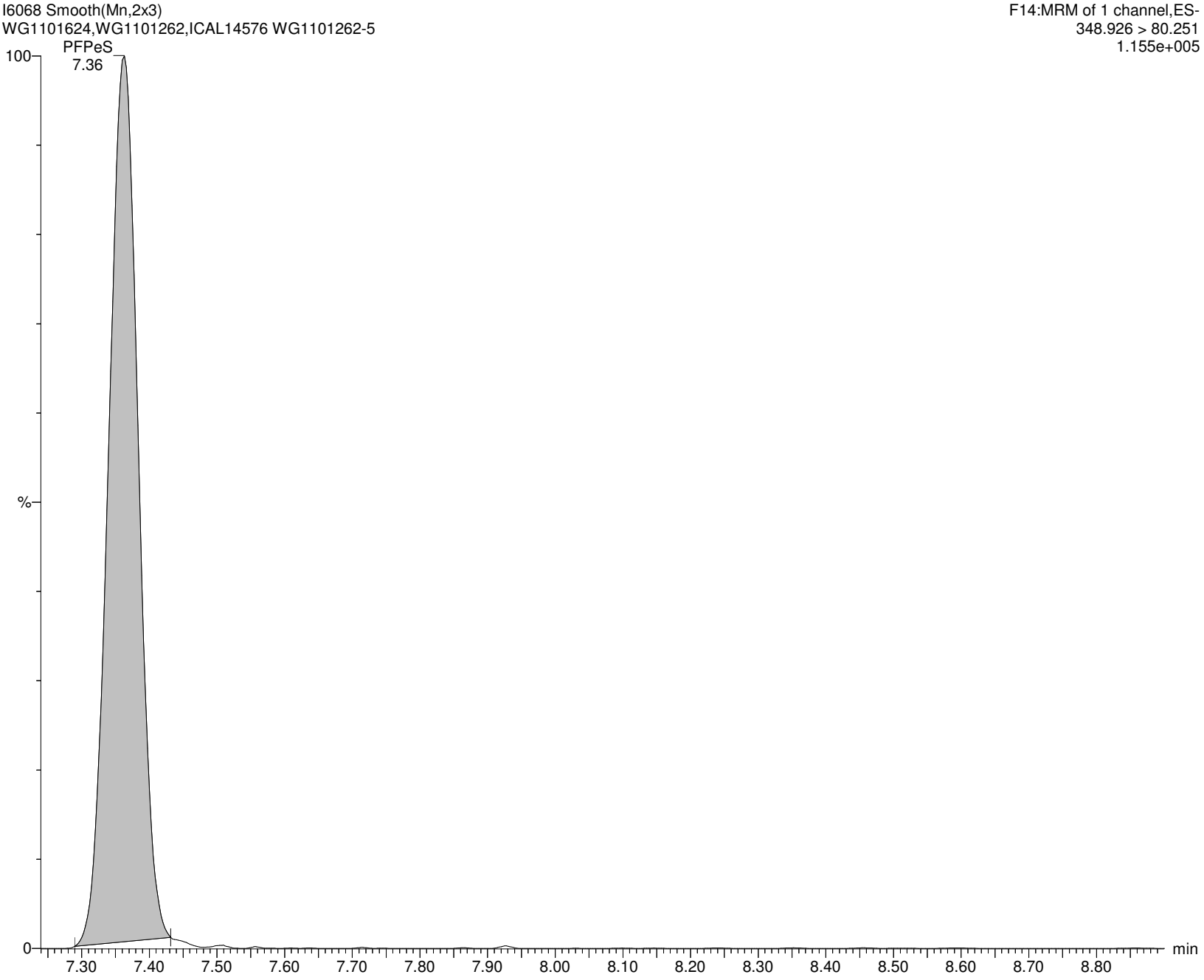

all concentration units in (ng/mL)

Alpha Analytical Inc.
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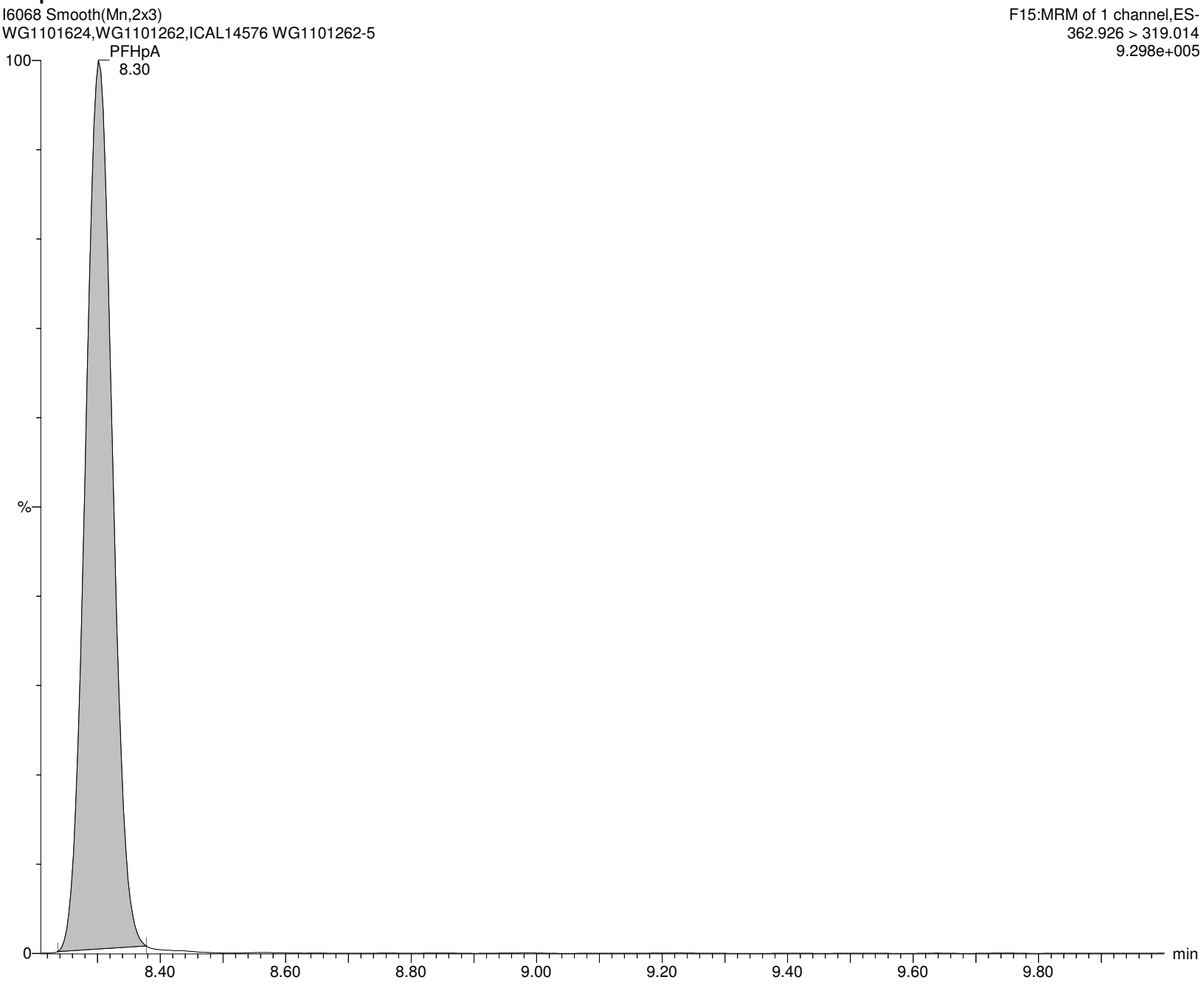

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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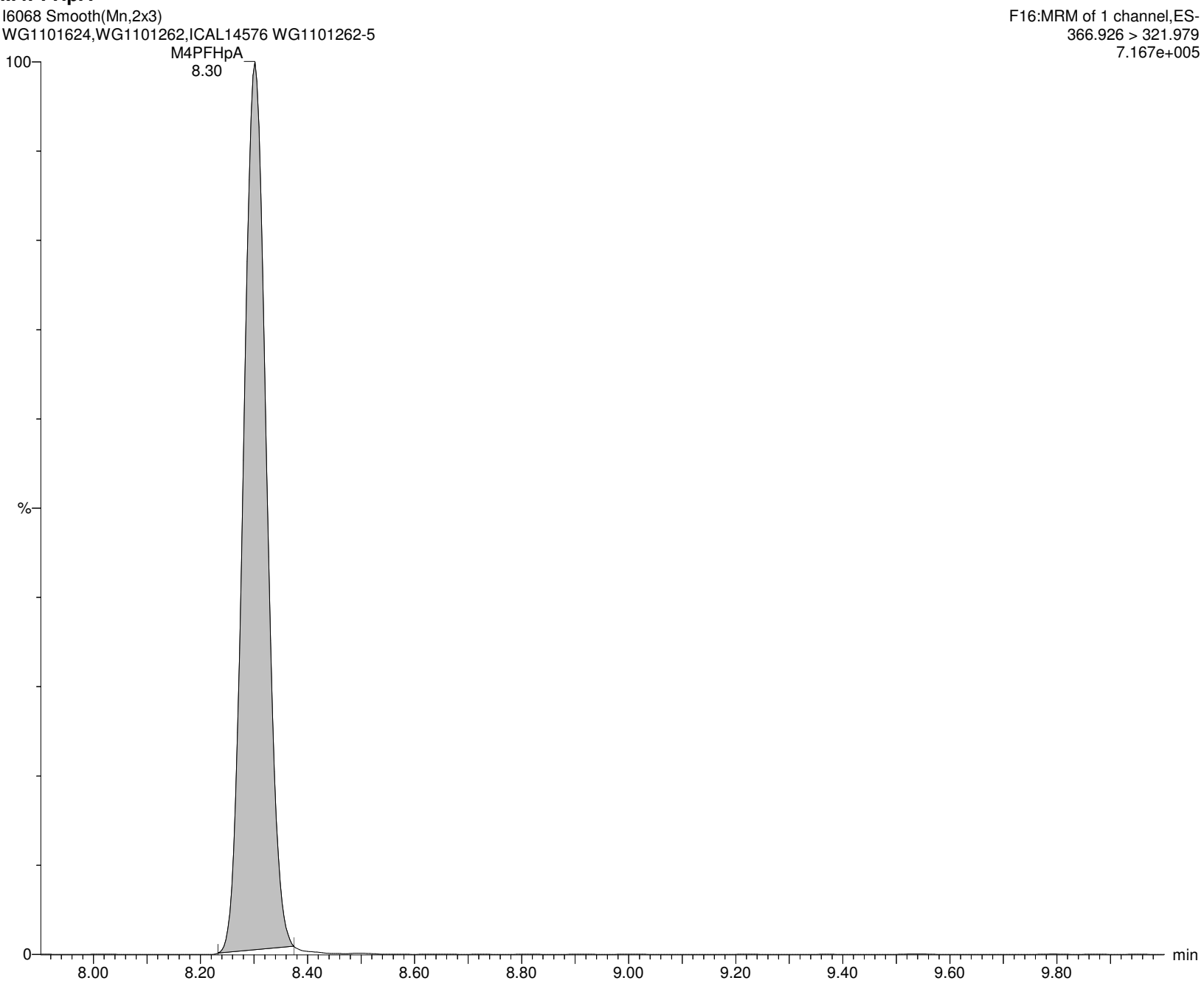

all concentration units in (ng/mL)

Alpha Analytical Inc.
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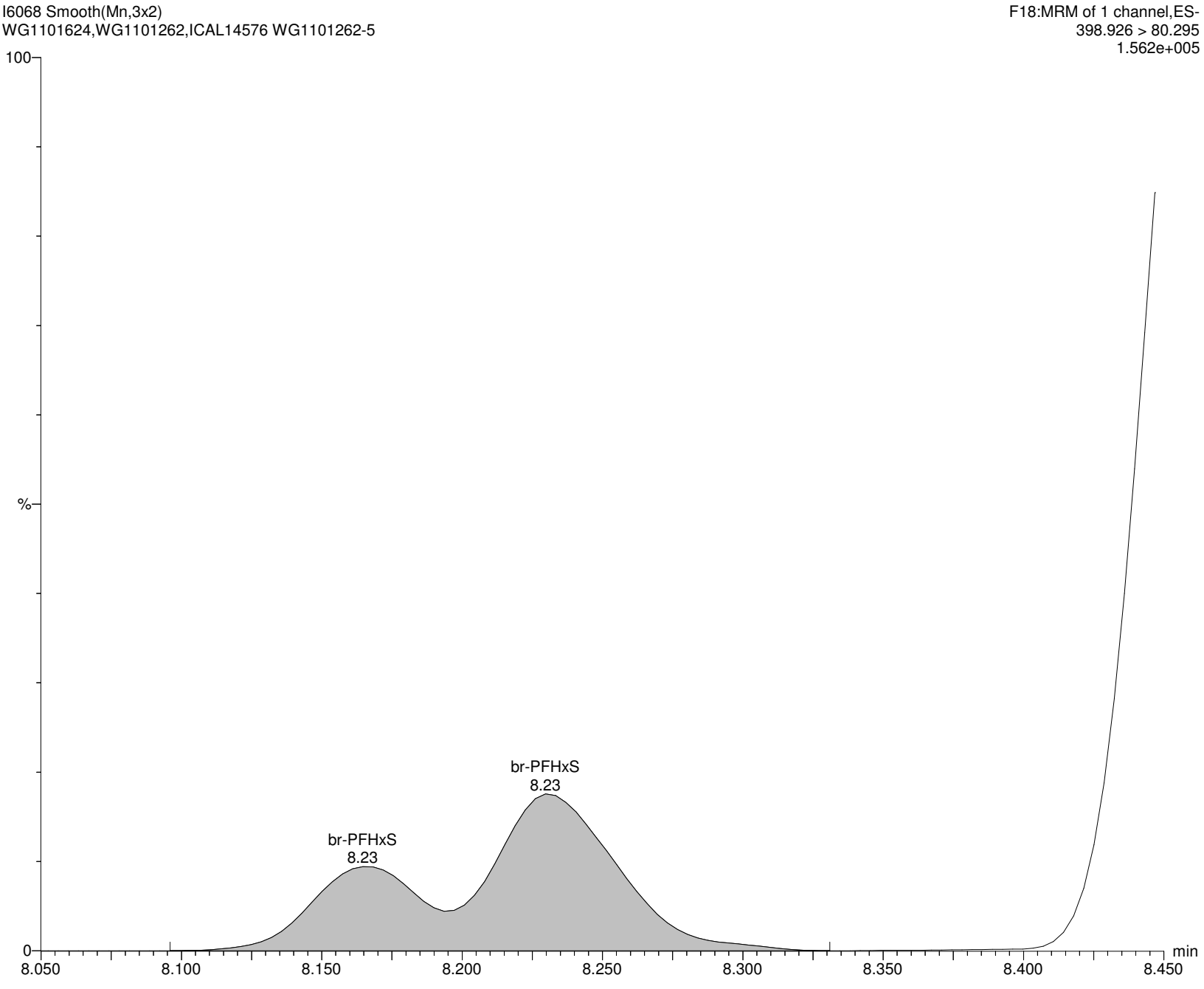

all concentration units in (ng/mL)

Alpha Analytical Inc.
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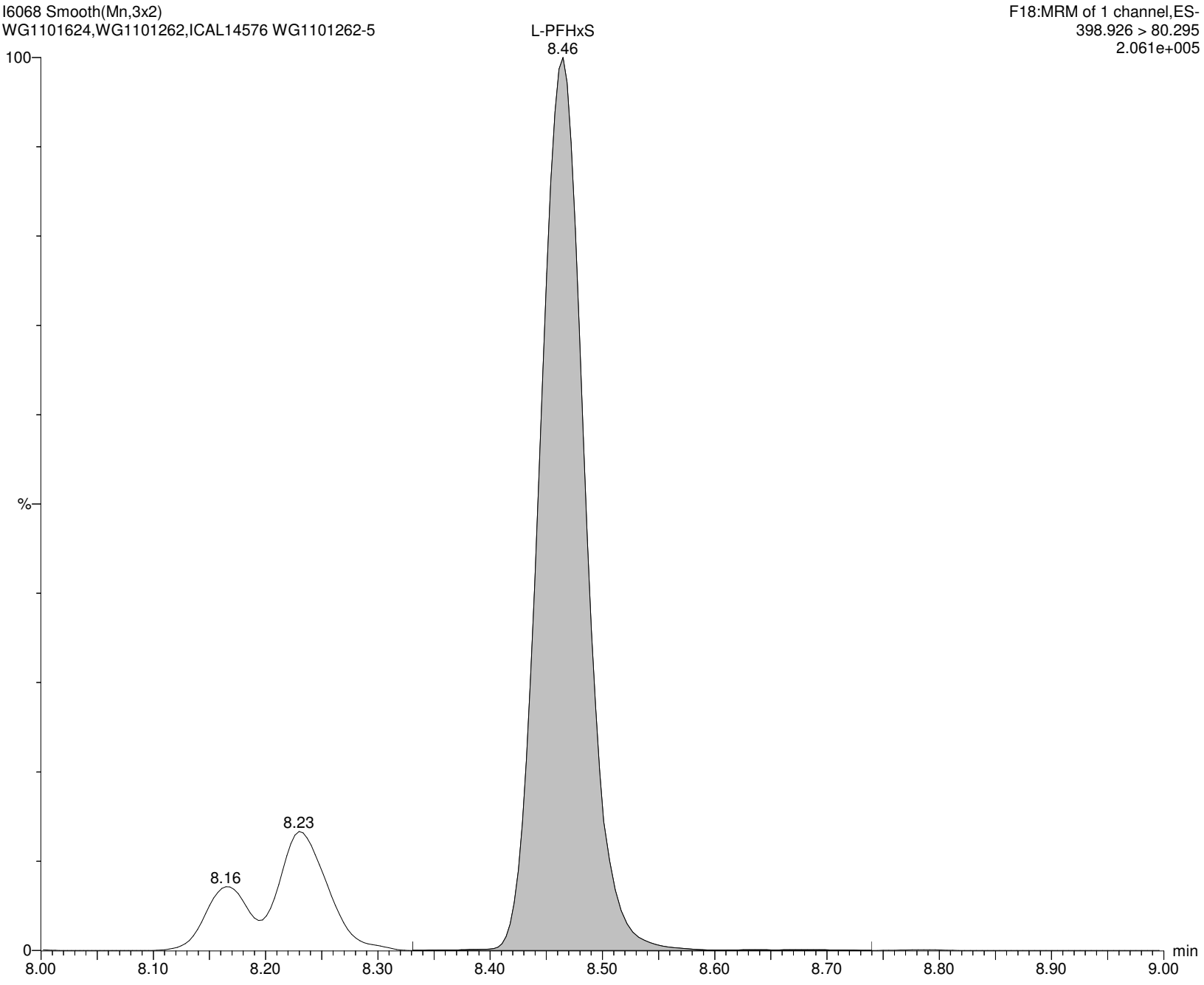
L-PFHxS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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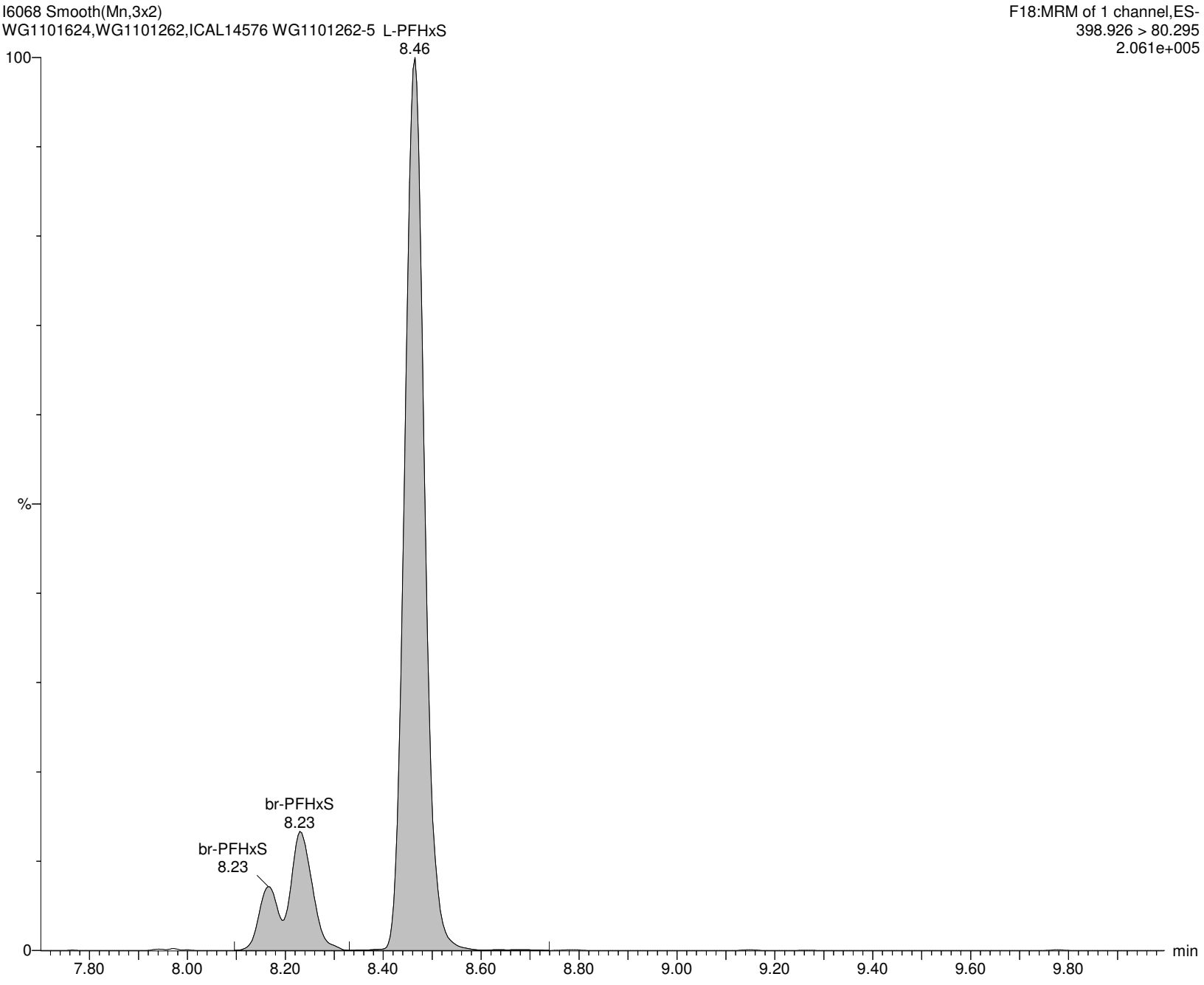

all concentration units in (ng/mL)

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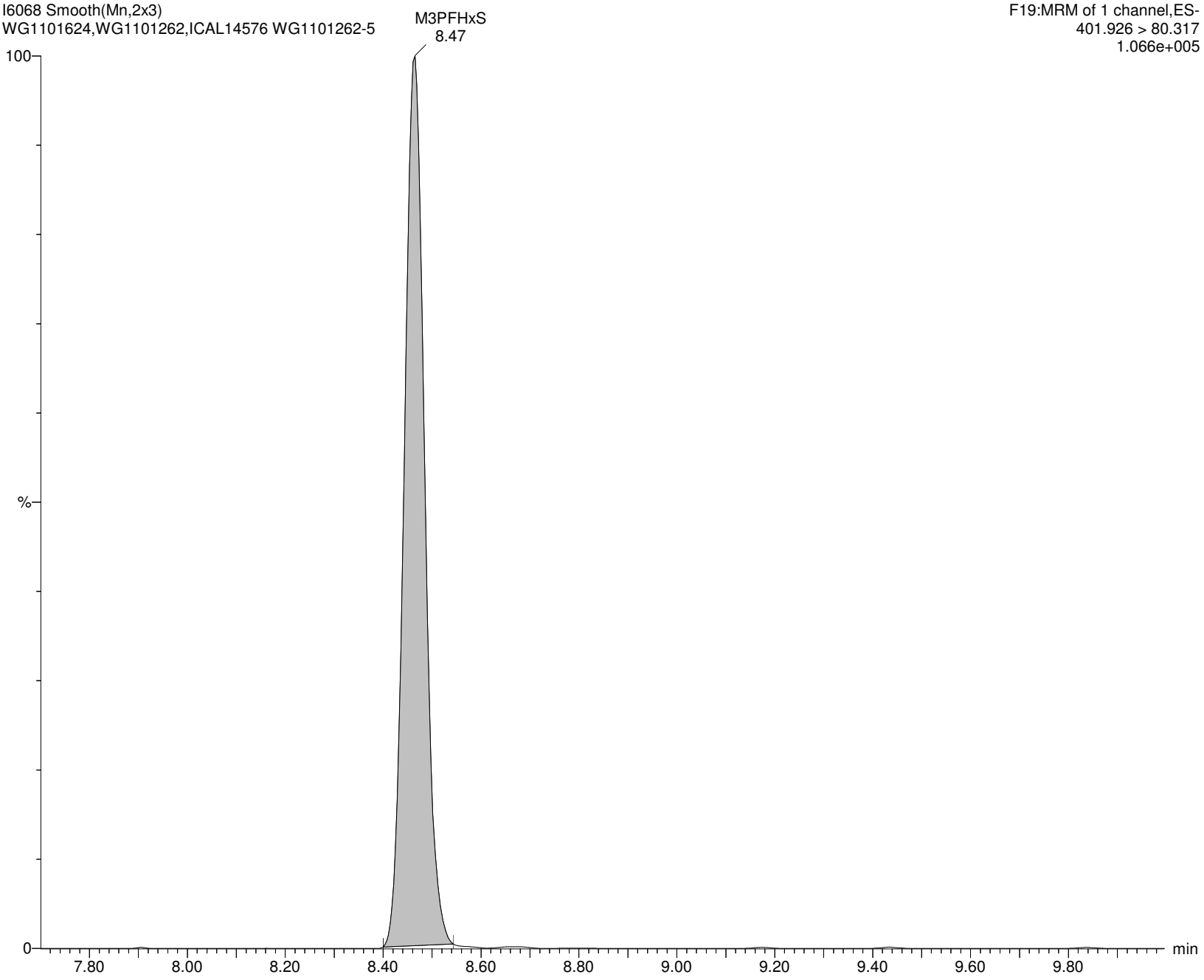

all concentration units in (ng/mL)

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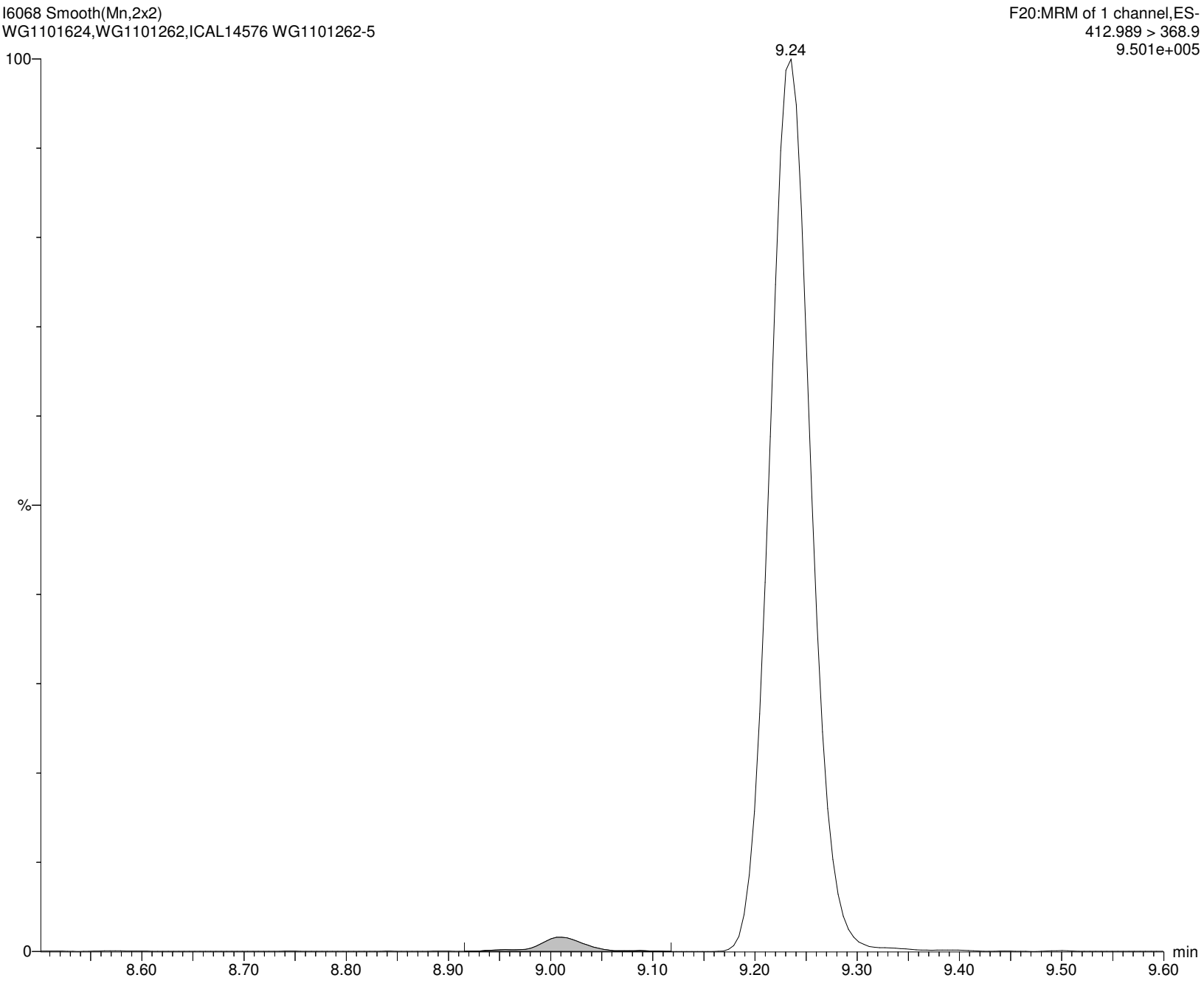

all concentration units in (ng/mL)

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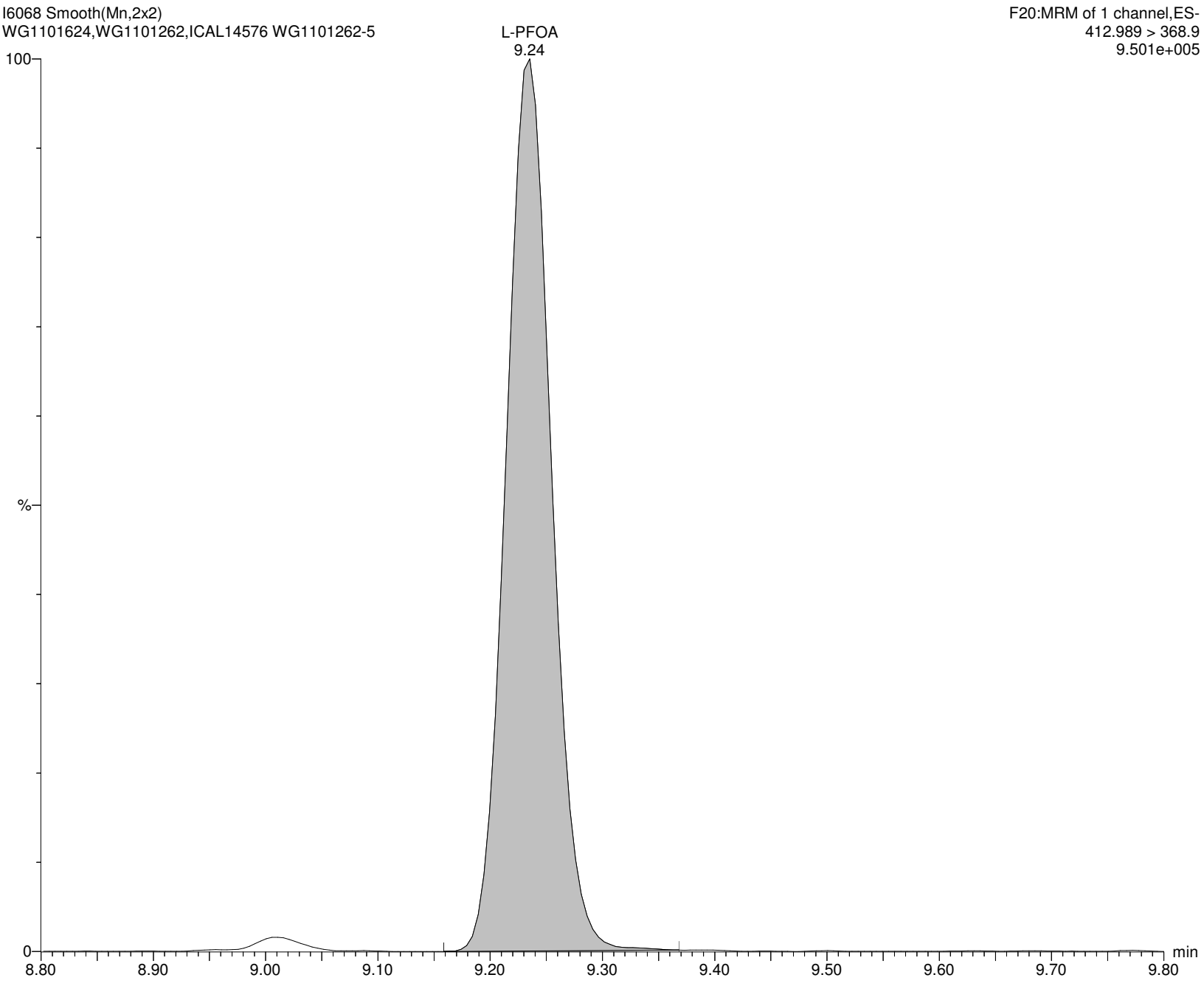
L-PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

Name: I6068
ID: WG1101262-5
Date: 29-Mar-2018
Time: 18:34:29
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\LCMS_537_ISO
Tune Method Name: C:\MassLynx\Data\2018\180329_537ISO.PRO\ACQUDB\180112_TUNE.IPR
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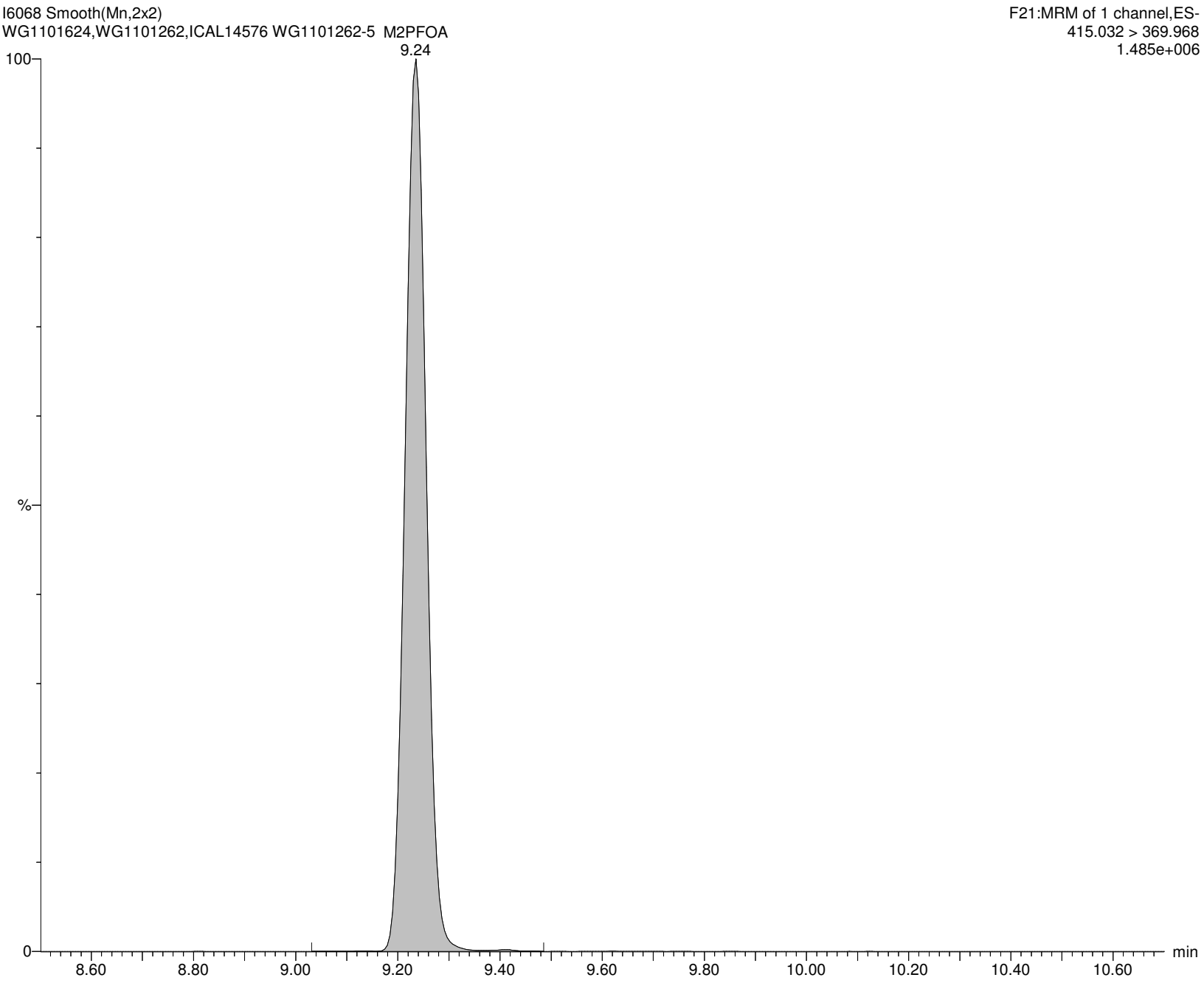

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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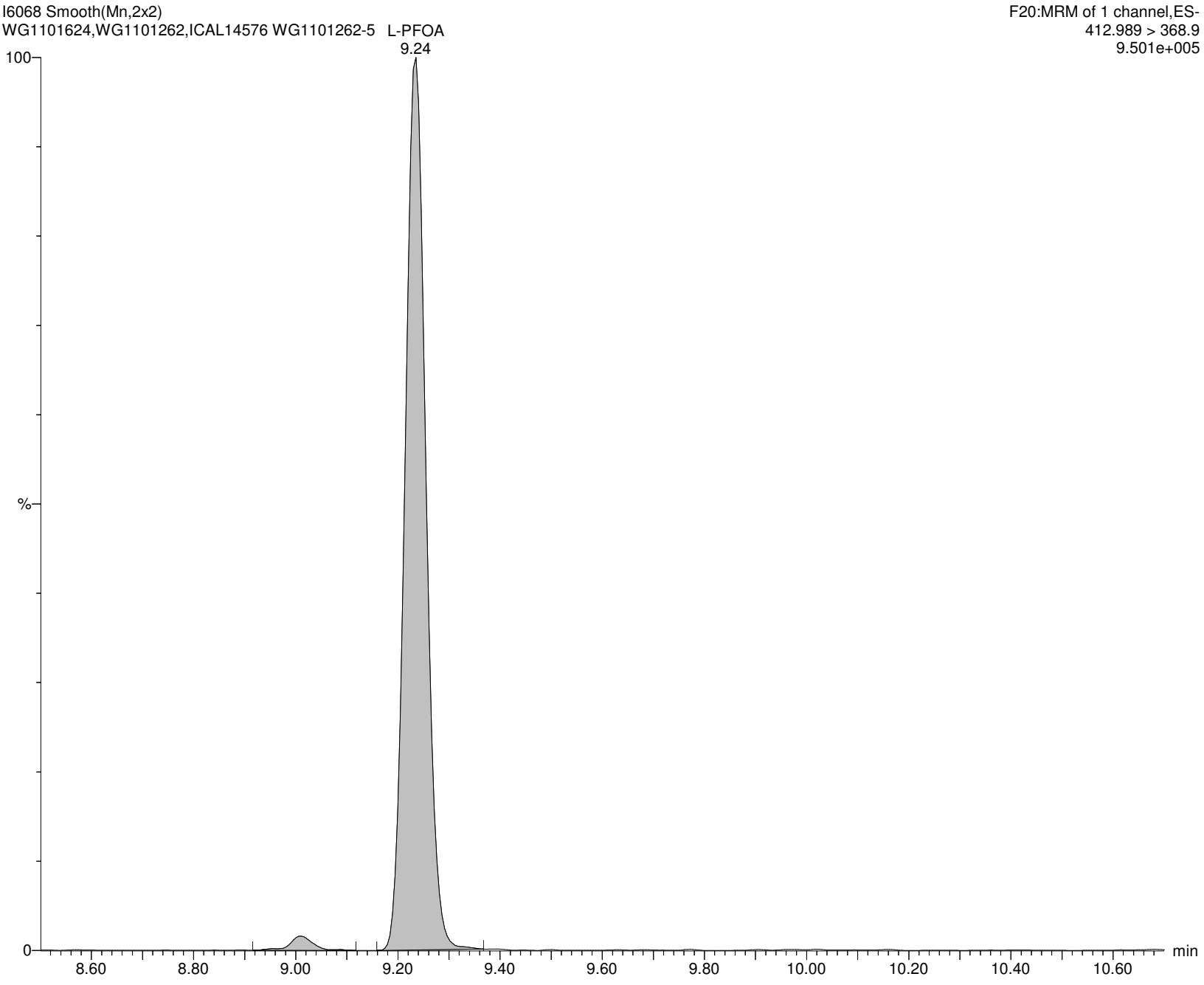

all concentration units in (ng/mL)

Alpha Analytical Inc.
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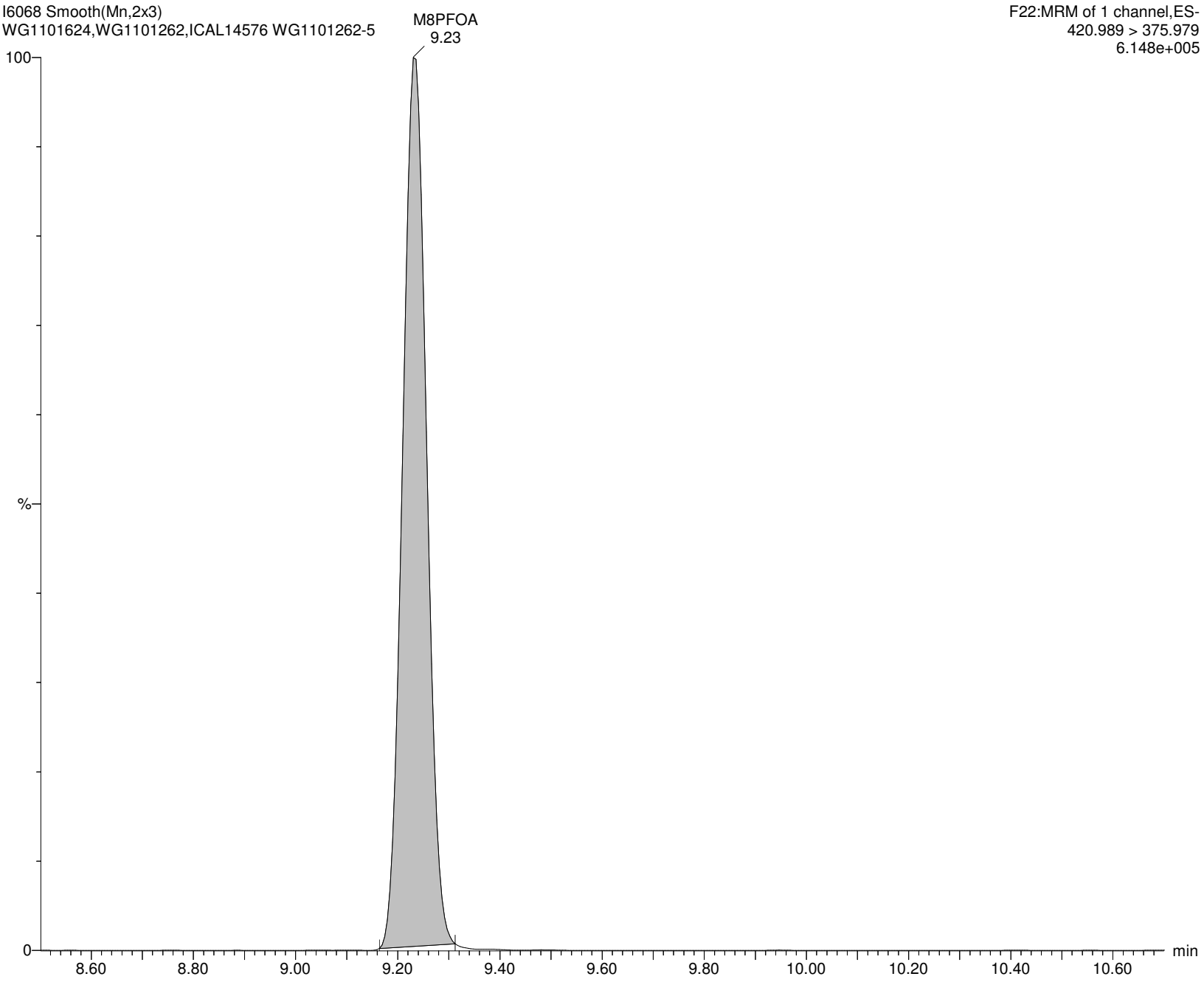

all concentration units in (ng/mL)

Alpha Analytical Inc.
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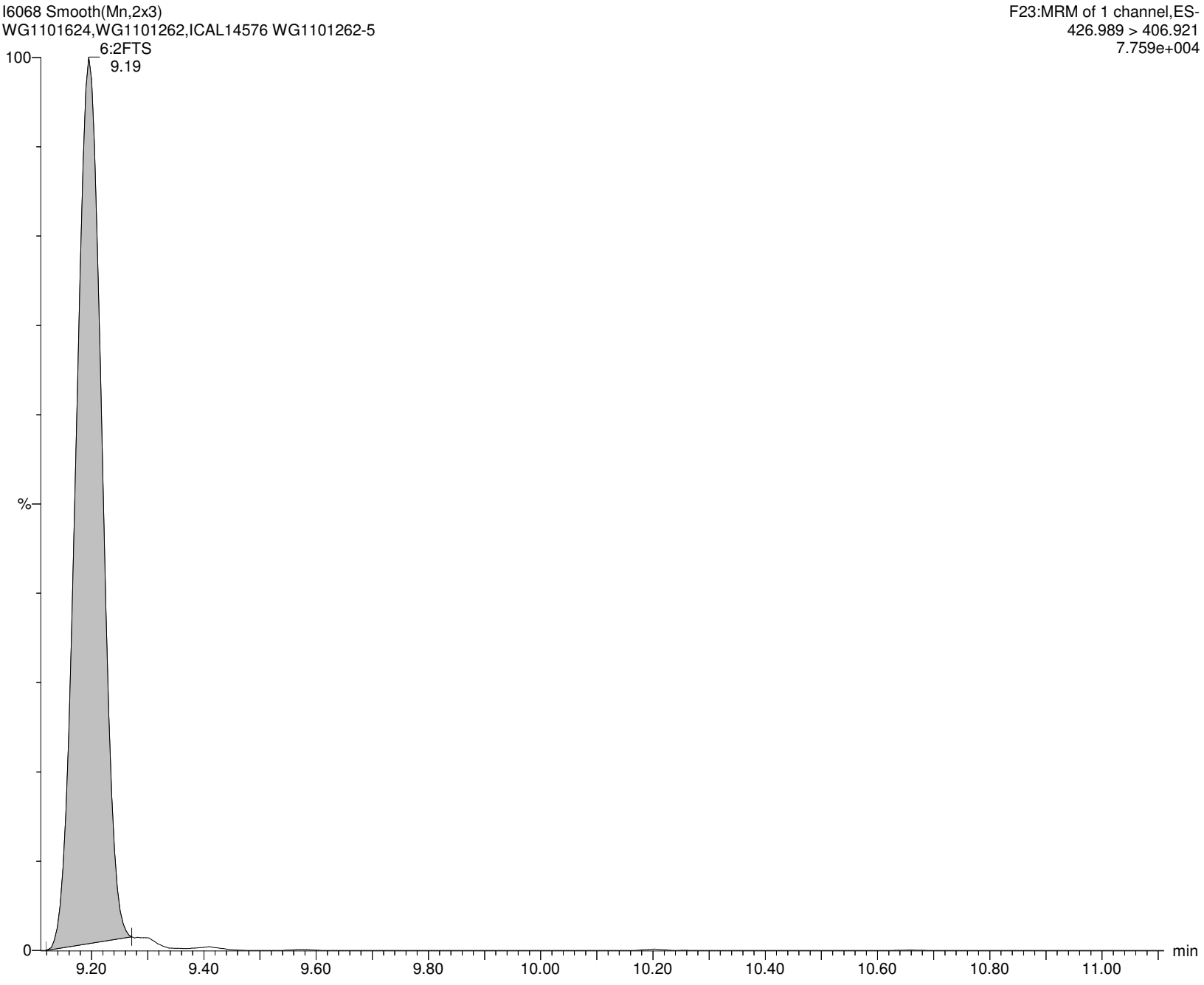
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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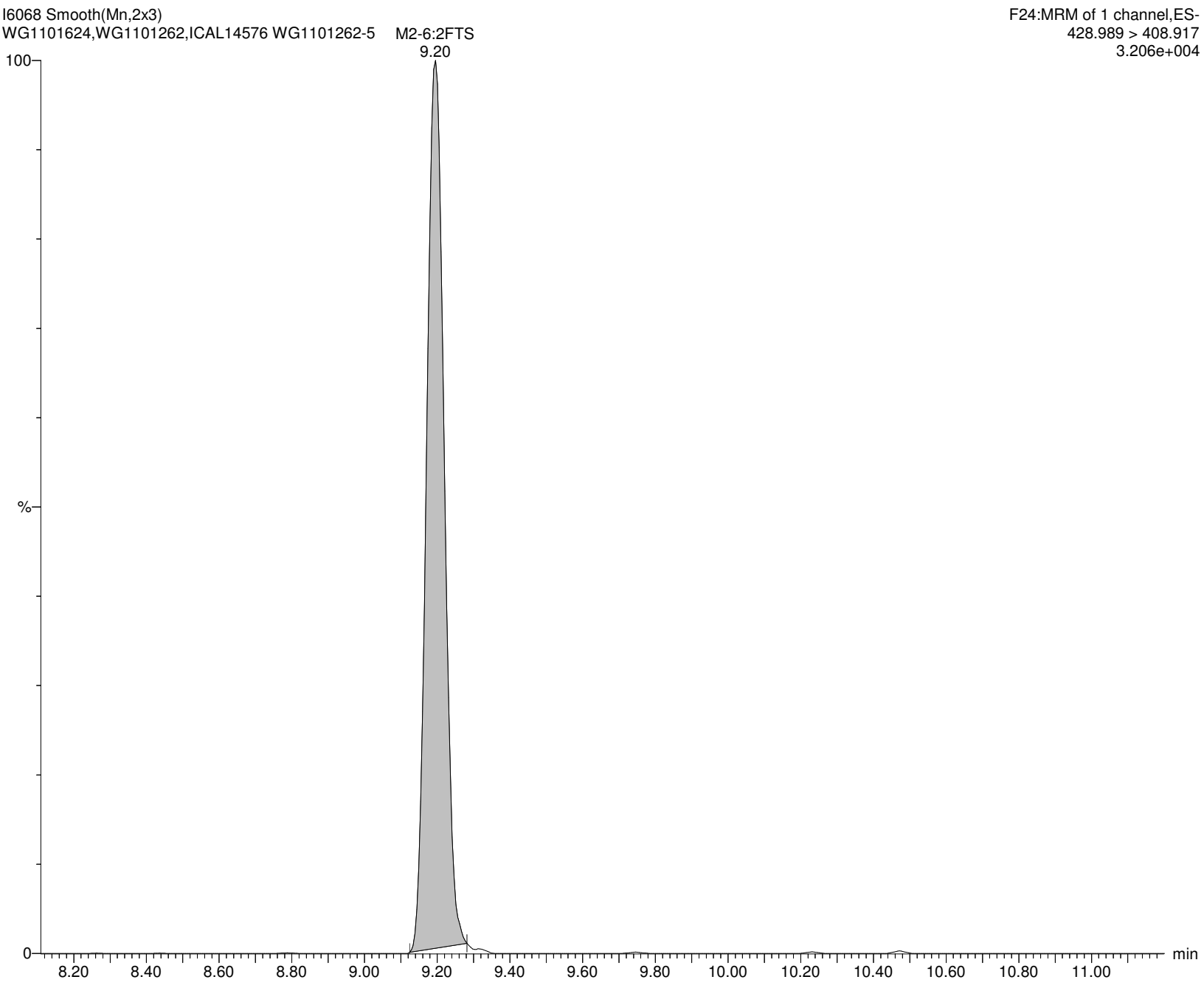
M2-6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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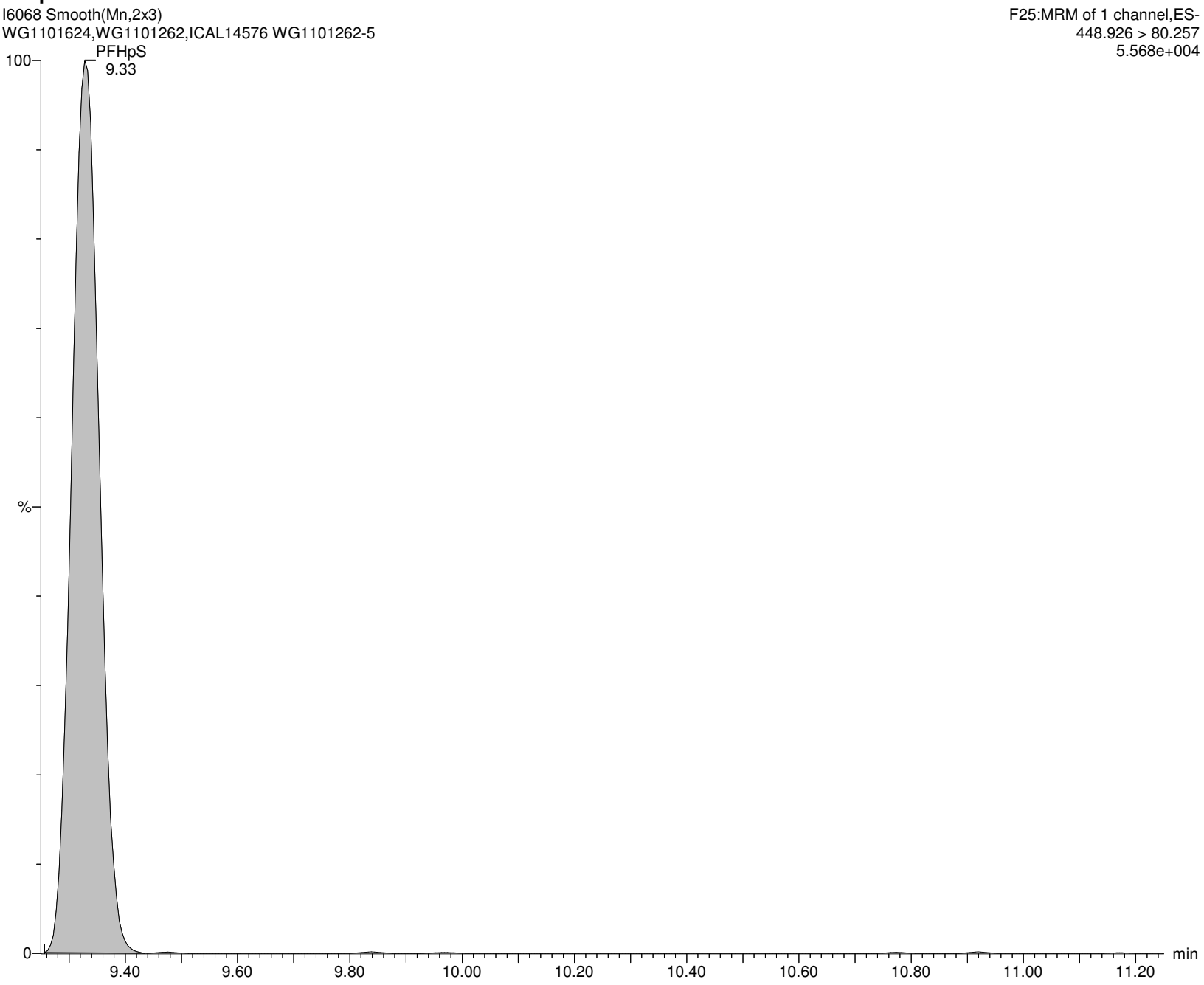

all concentration units in (ng/mL)

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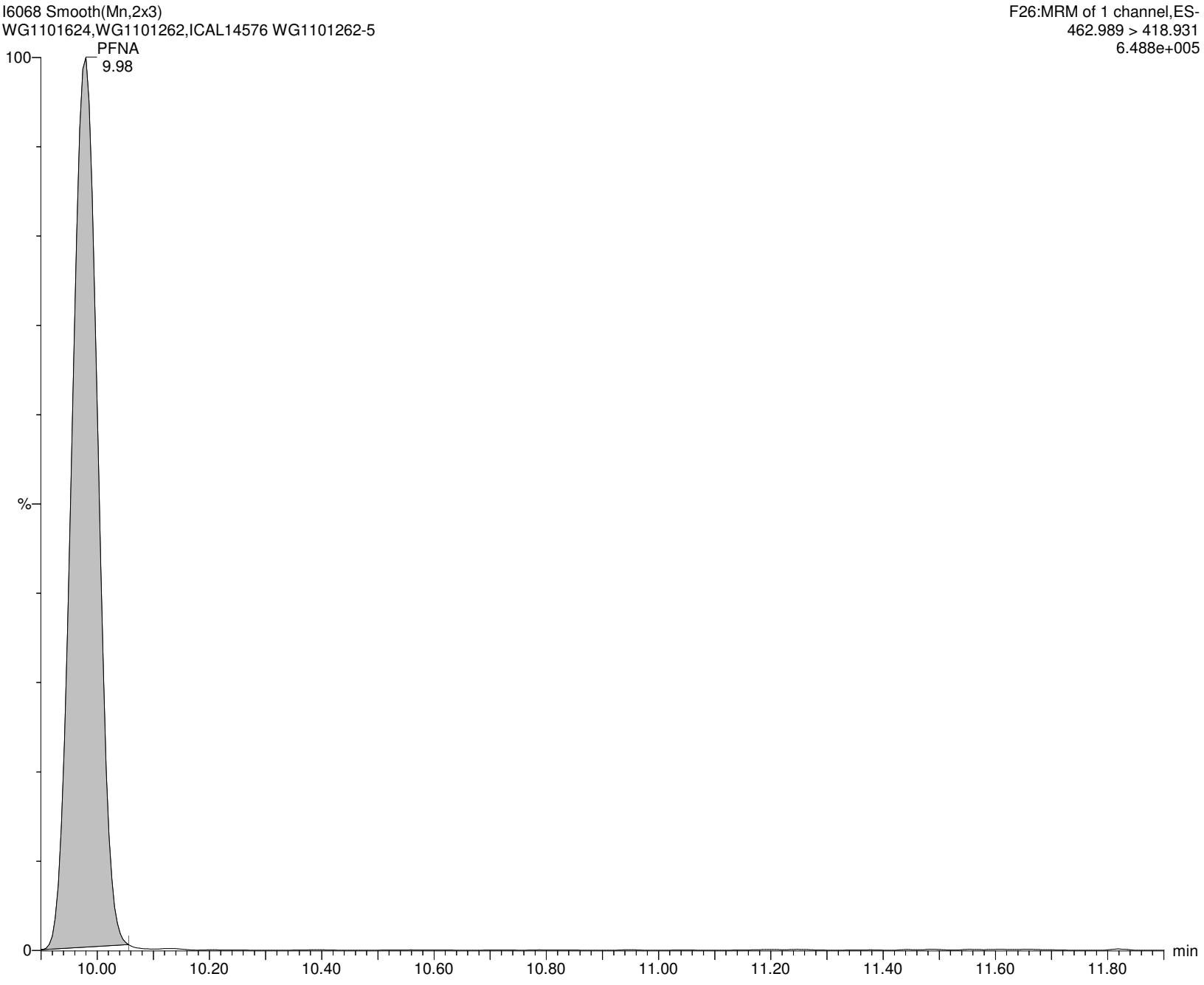

all concentration units in (ng/mL)

Alpha Analytical Inc.
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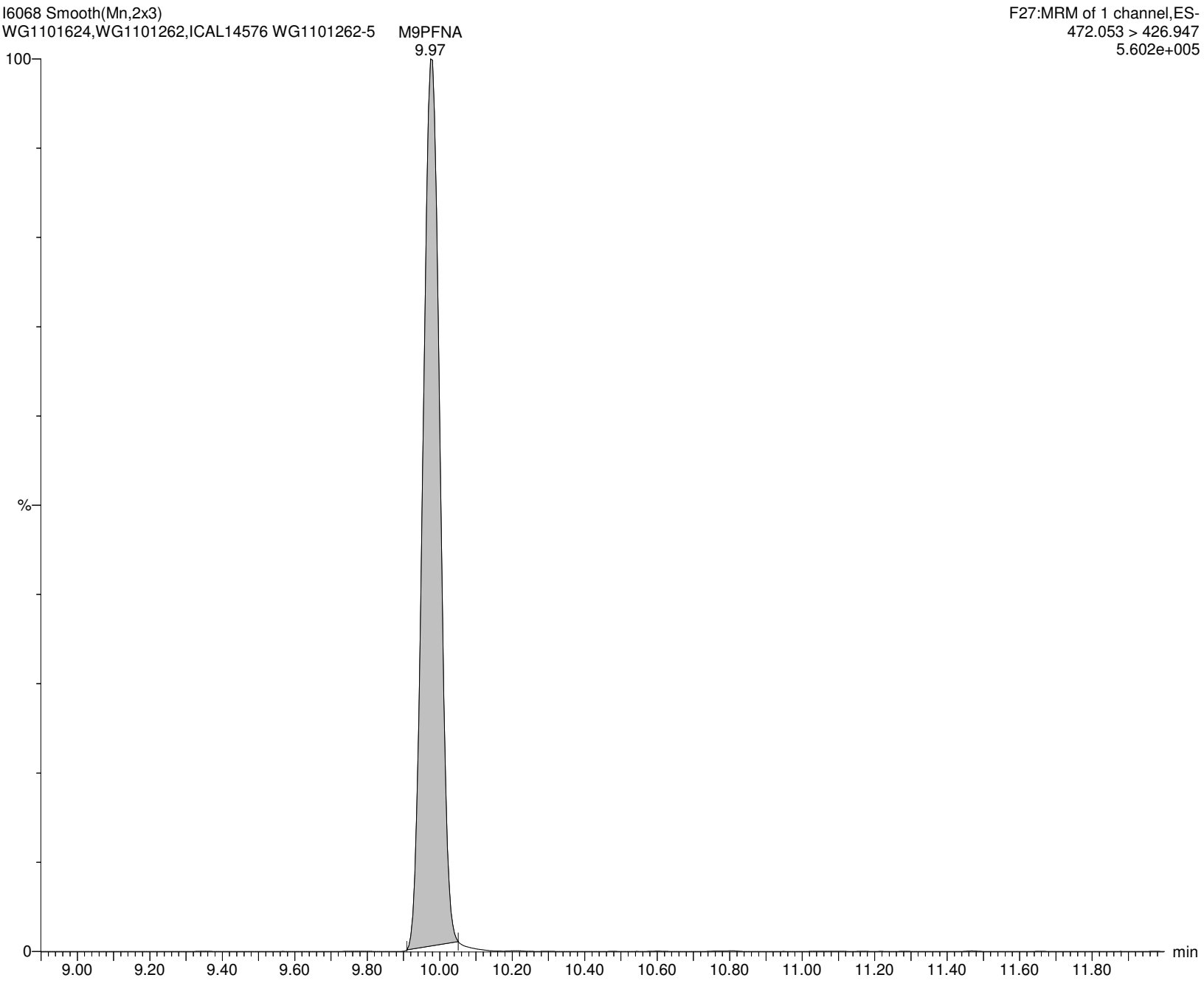

all concentration units in (ng/mL)

Alpha Analytical Inc.
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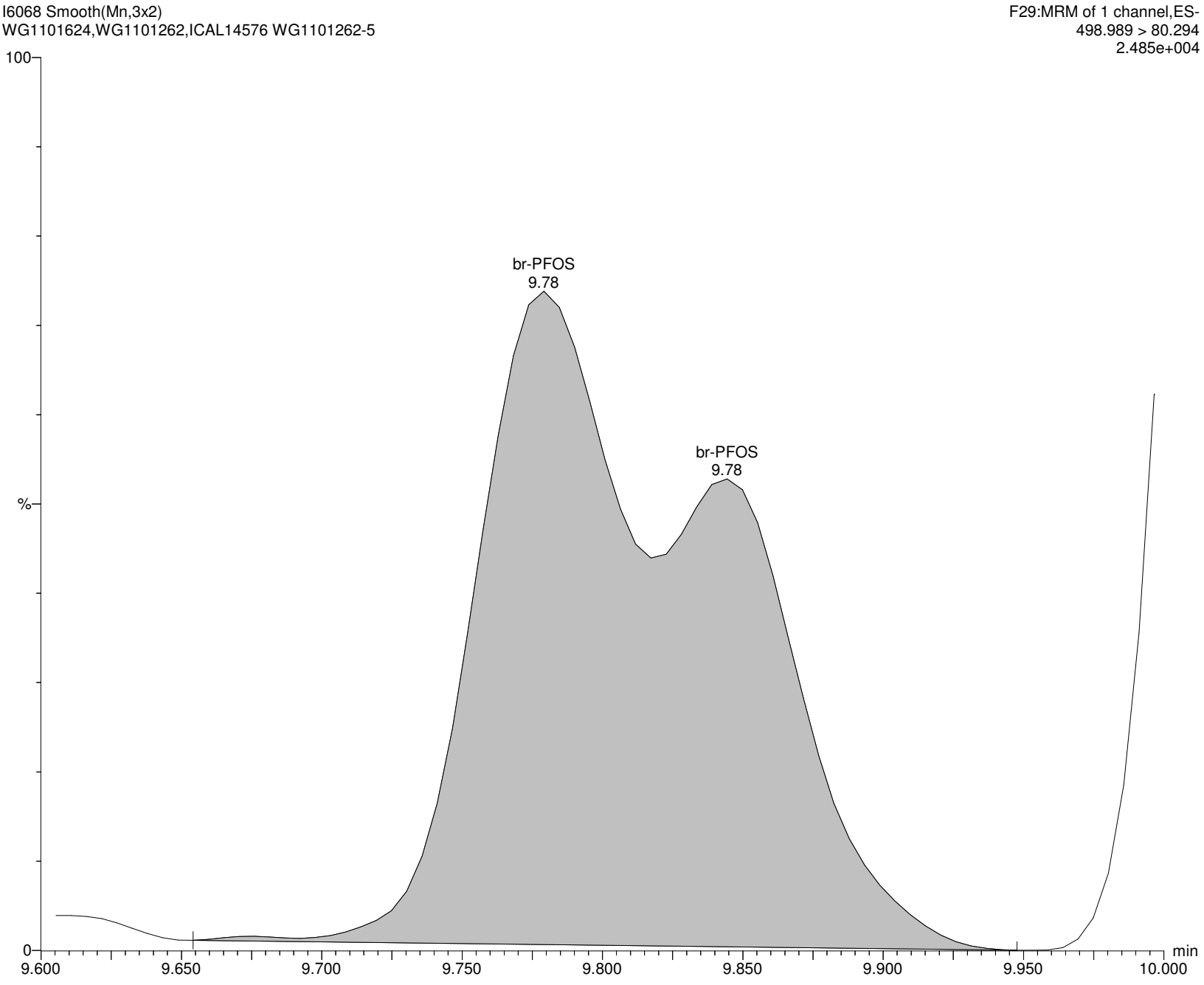

all concentration units in (ng/mL)

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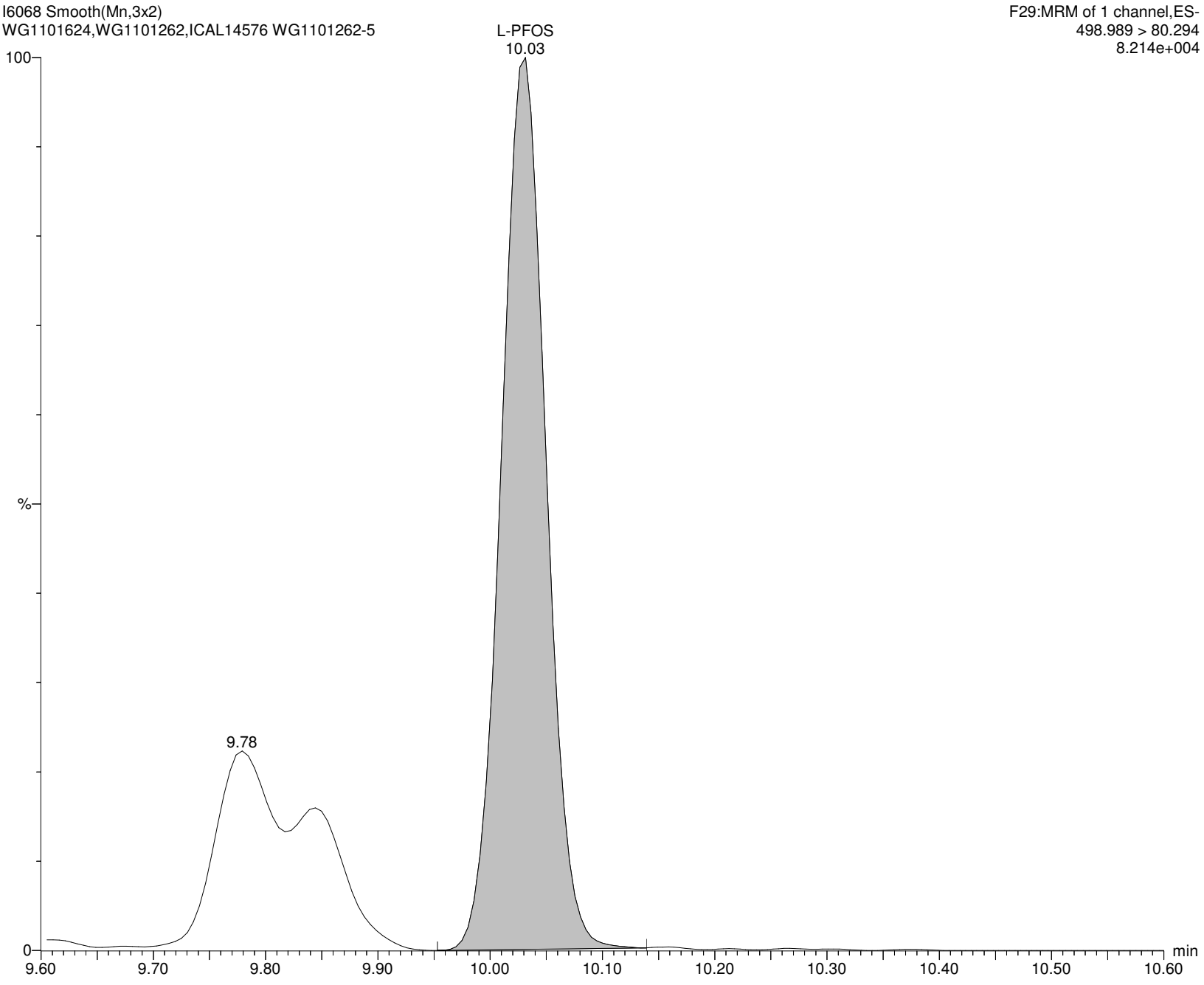

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
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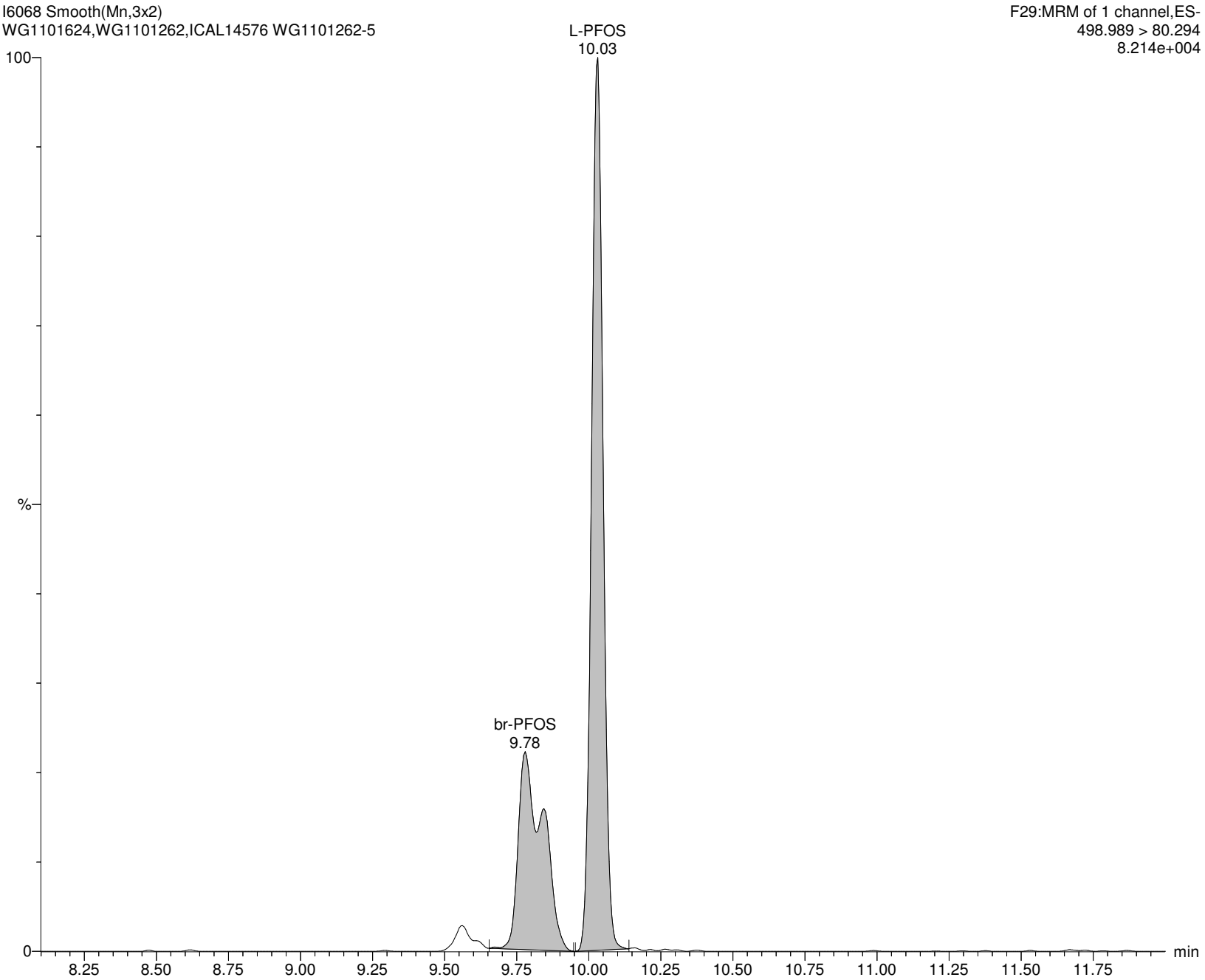

all concentration units in (ng/mL)

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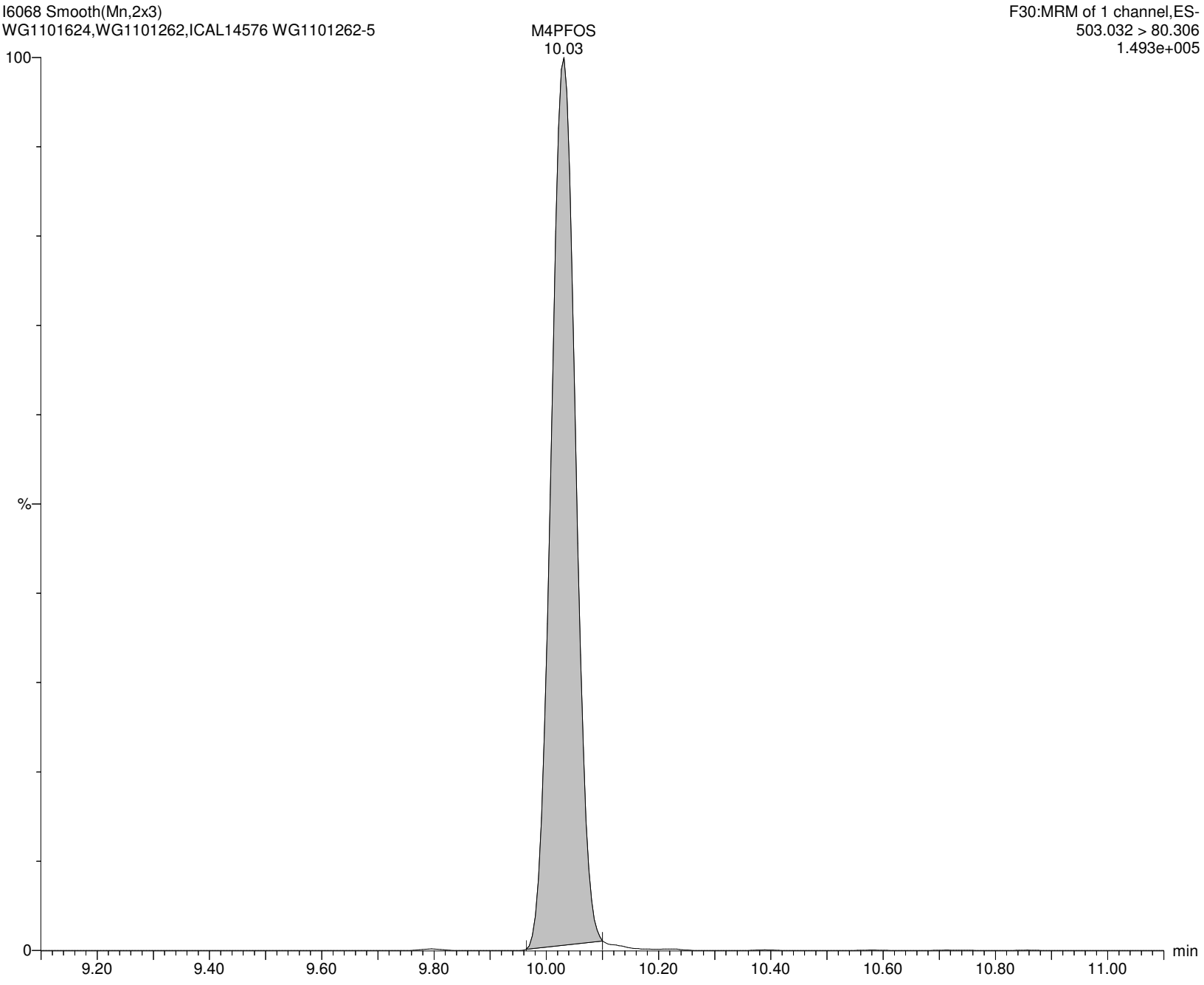

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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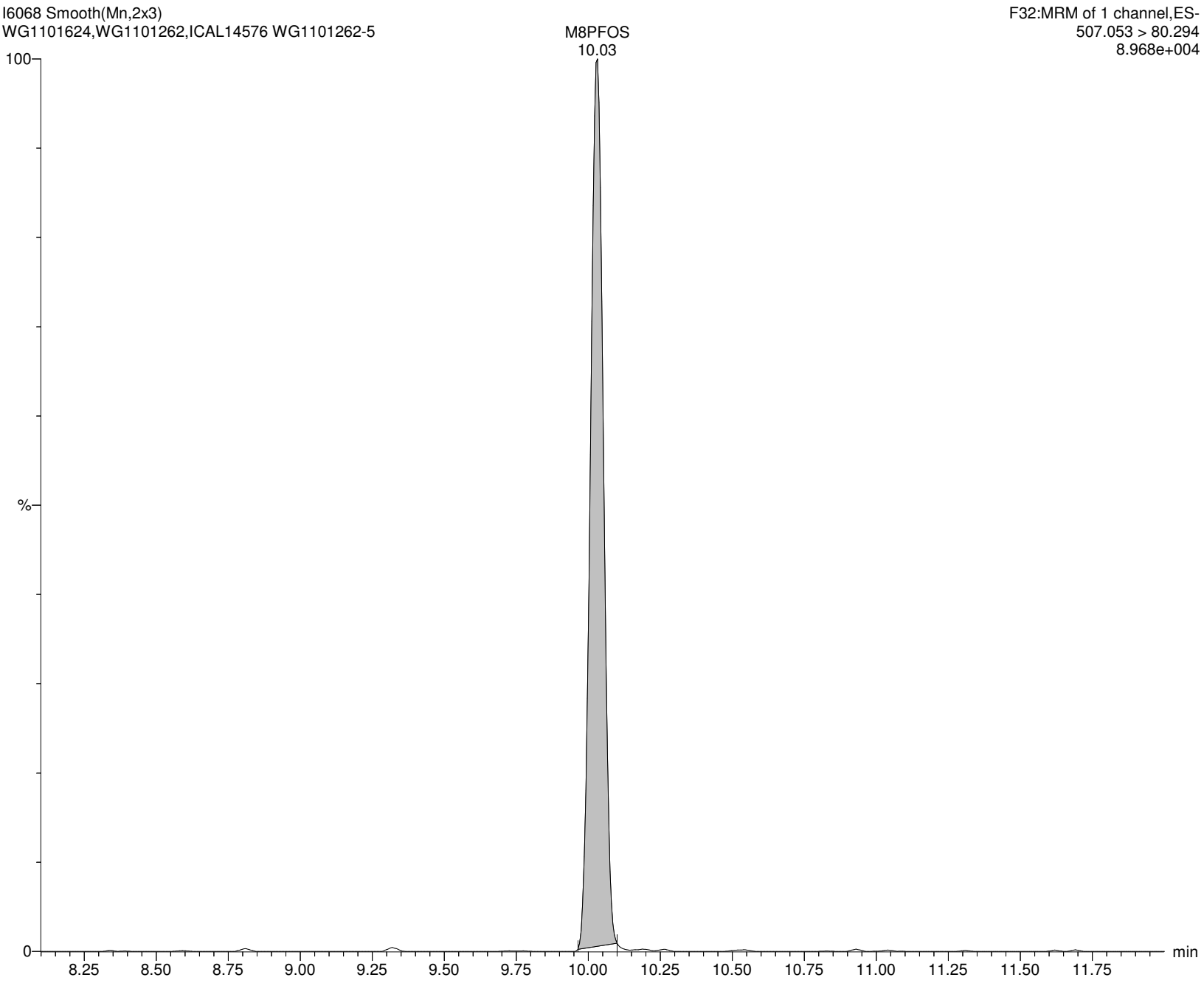

all concentration units in (ng/mL)

Alpha Analytical Inc.
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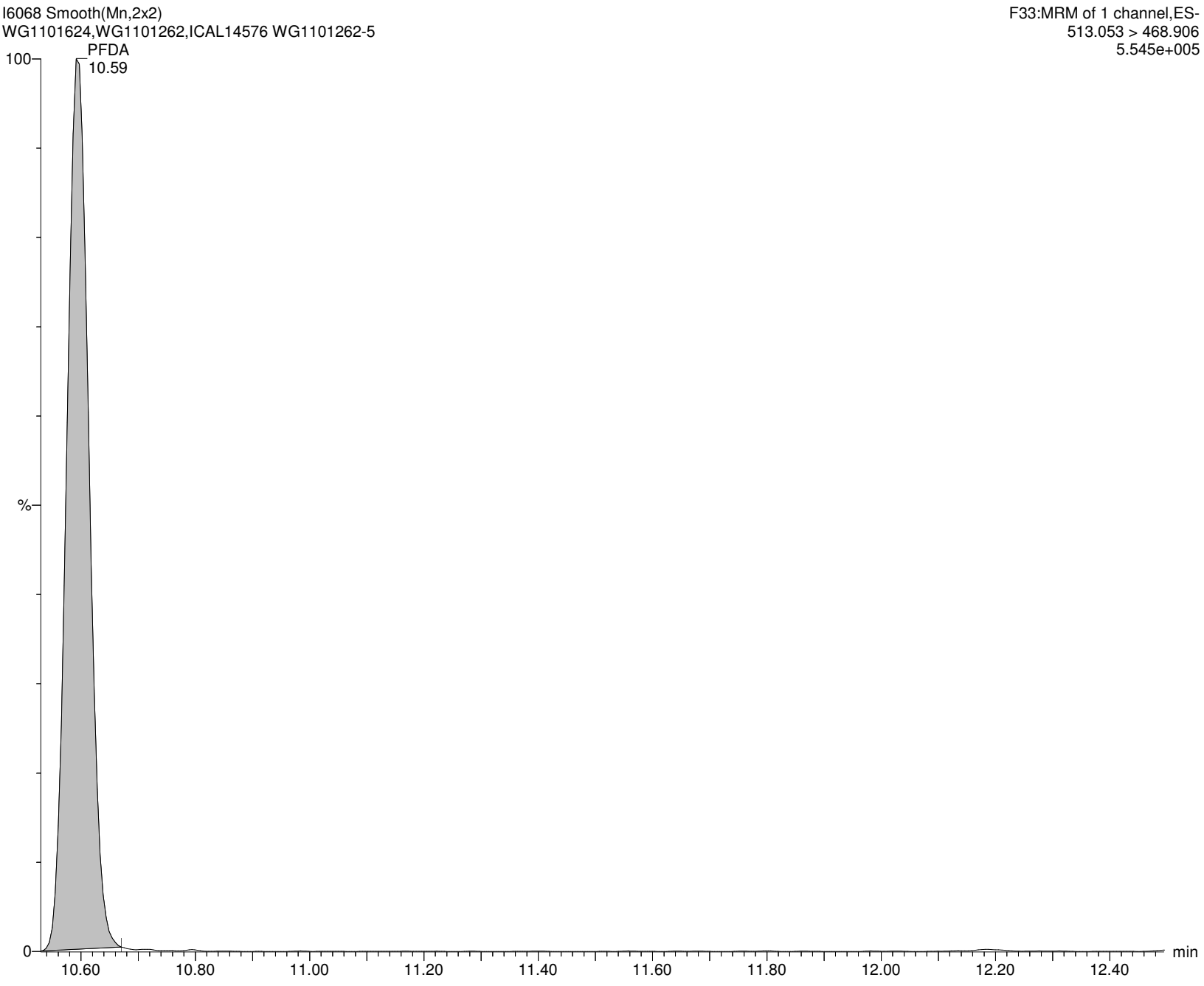

all concentration units in (ng/mL)

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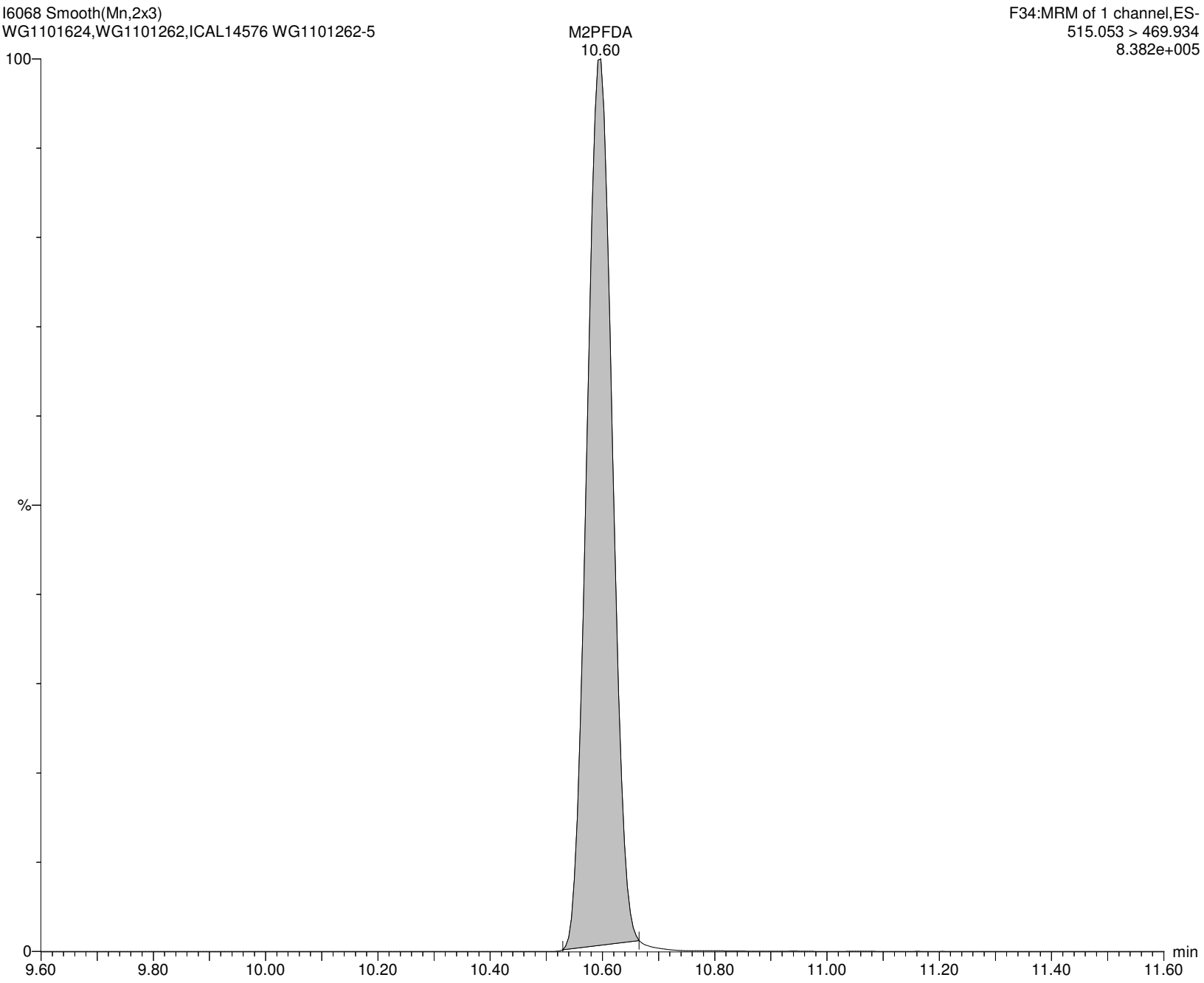

all concentration units in (ng/mL)

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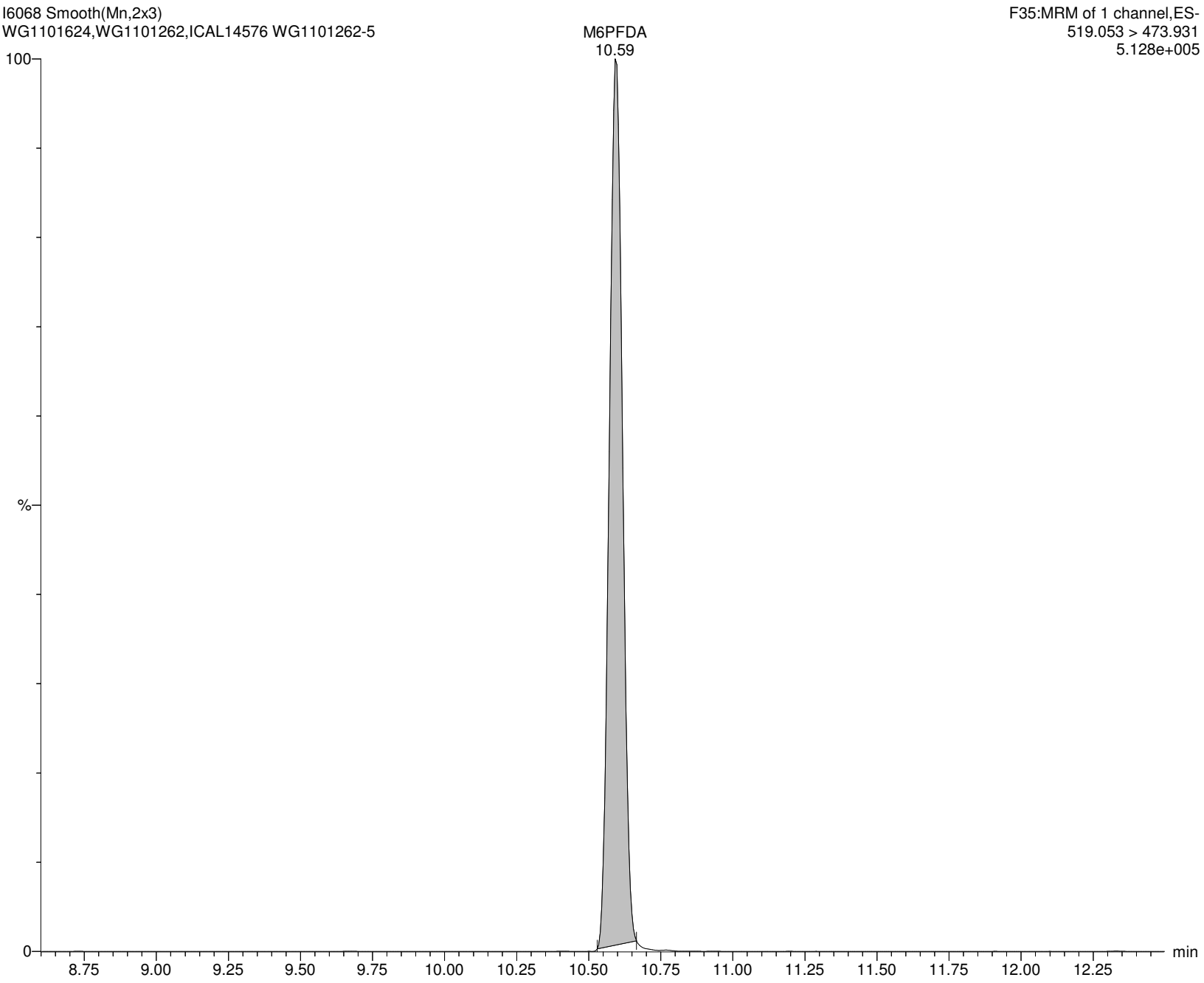

all concentration units in (ng/mL)

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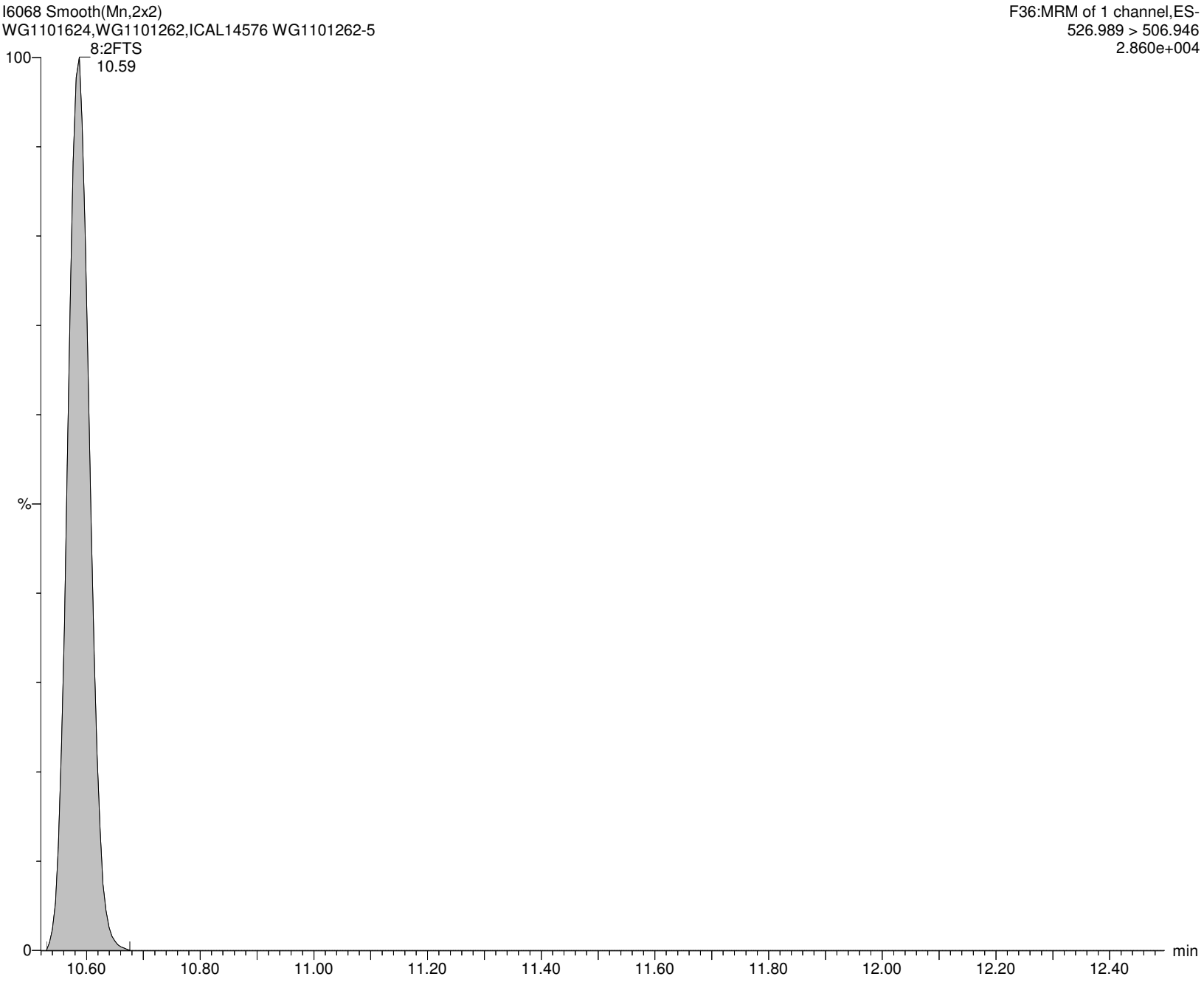
8:2FTS



all concentration units in (ng/mL)

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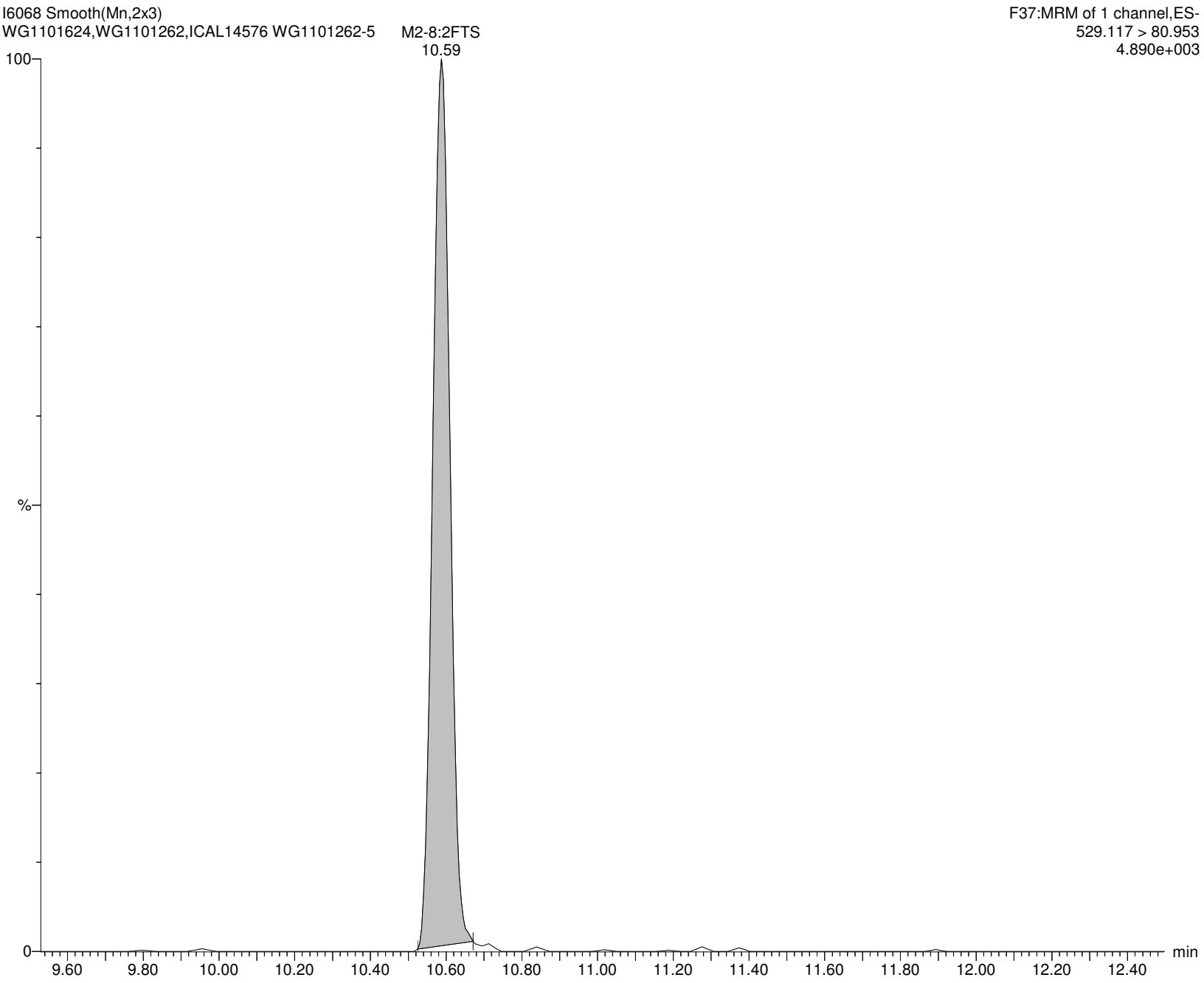
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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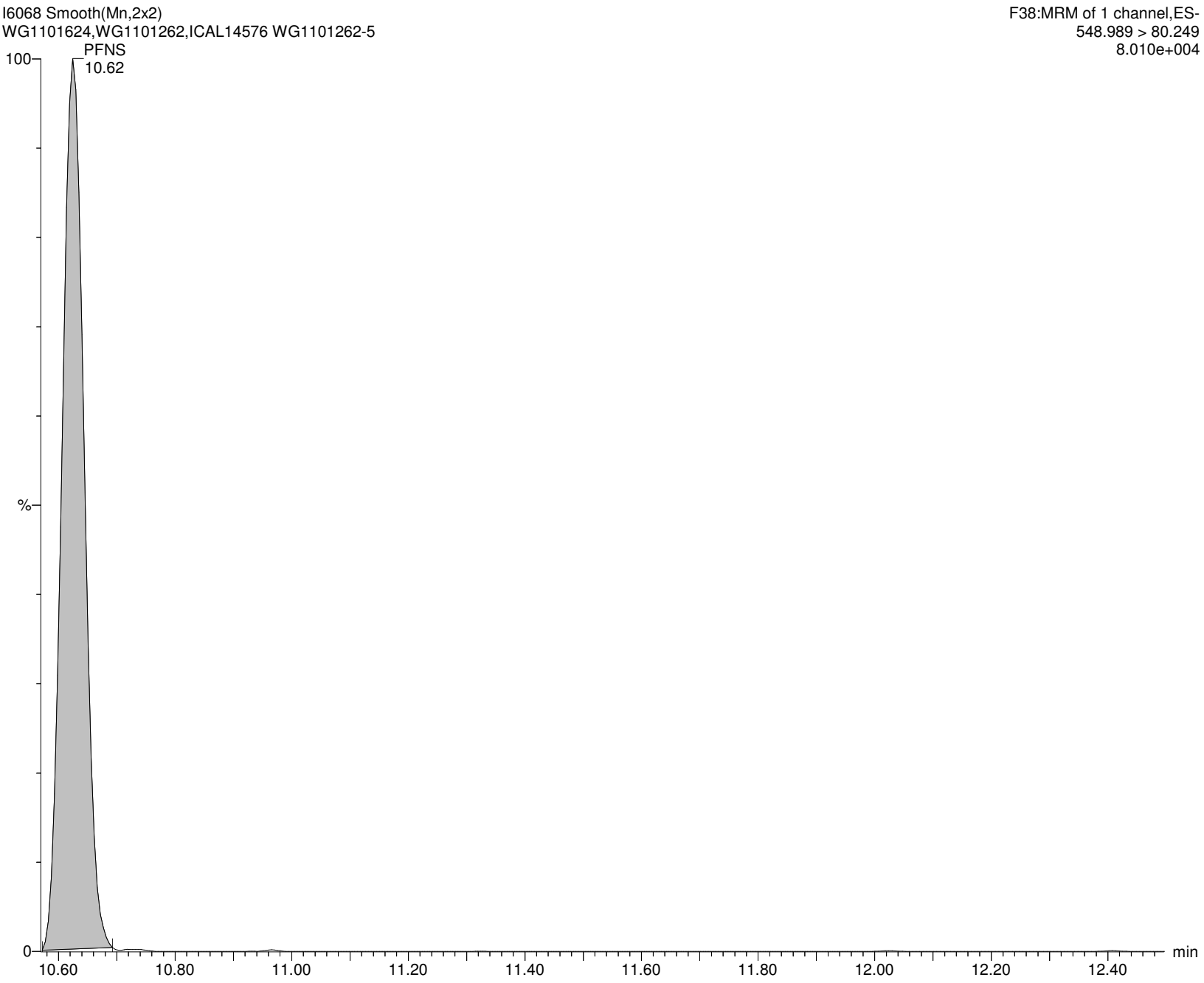

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
Last Altered: Thursday, March 29, 2018 20:29:17 Eastern Daylight Time
Printed: Thursday, March 29, 2018 20:31:15 Eastern Daylight Time

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ID: WG1101262-5
Date: 29-Mar-2018
Time: 18:34:29
Description: WG1101624,WG1101262,ICAL14576
User: LCMS01:AJ
Vial: 2:C,3
Instrument: XEVO-TQSmicro#QEA0276
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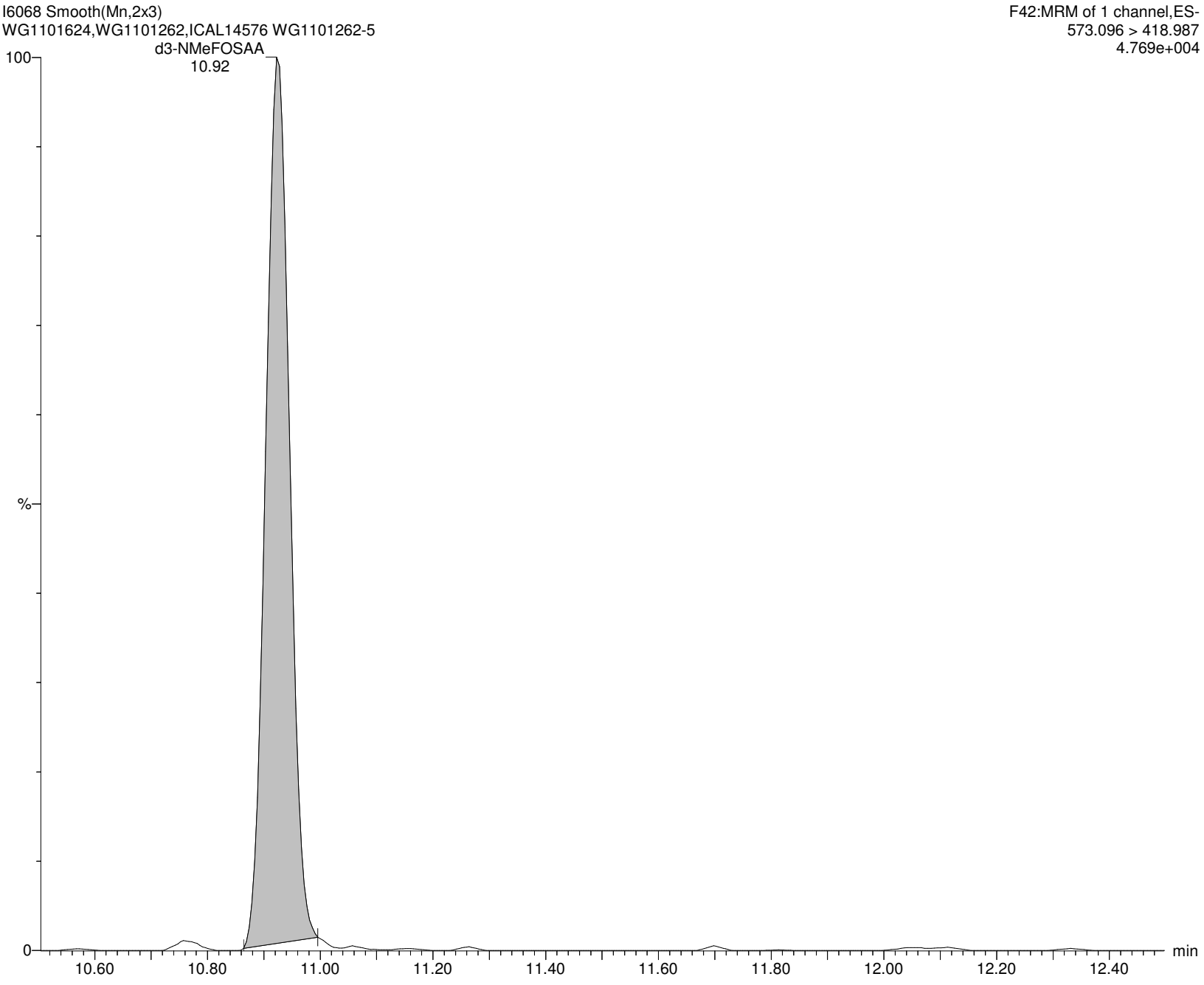

all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS01:AJ
Vial: 2:C,3
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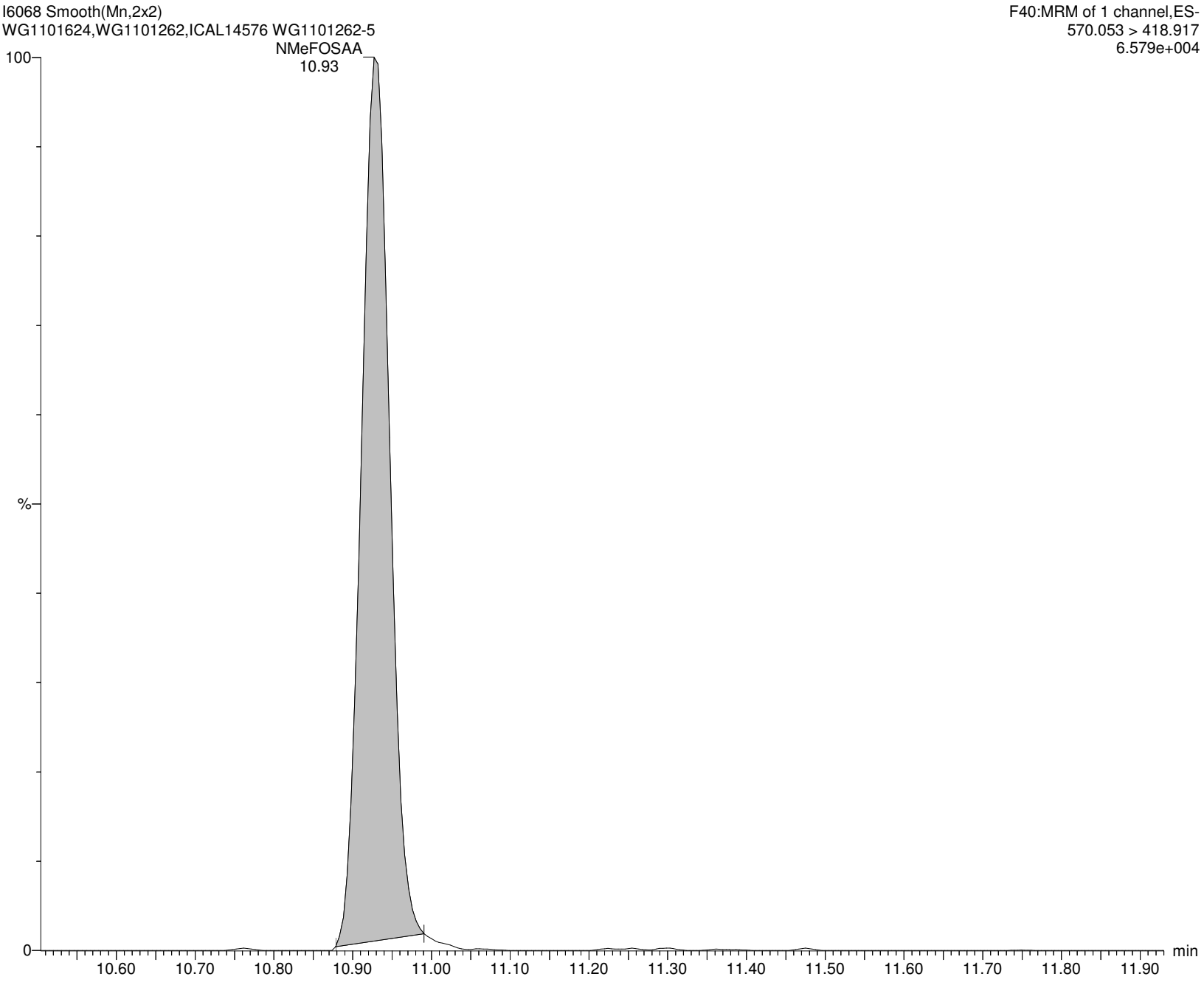

all concentration units in (ng/mL)

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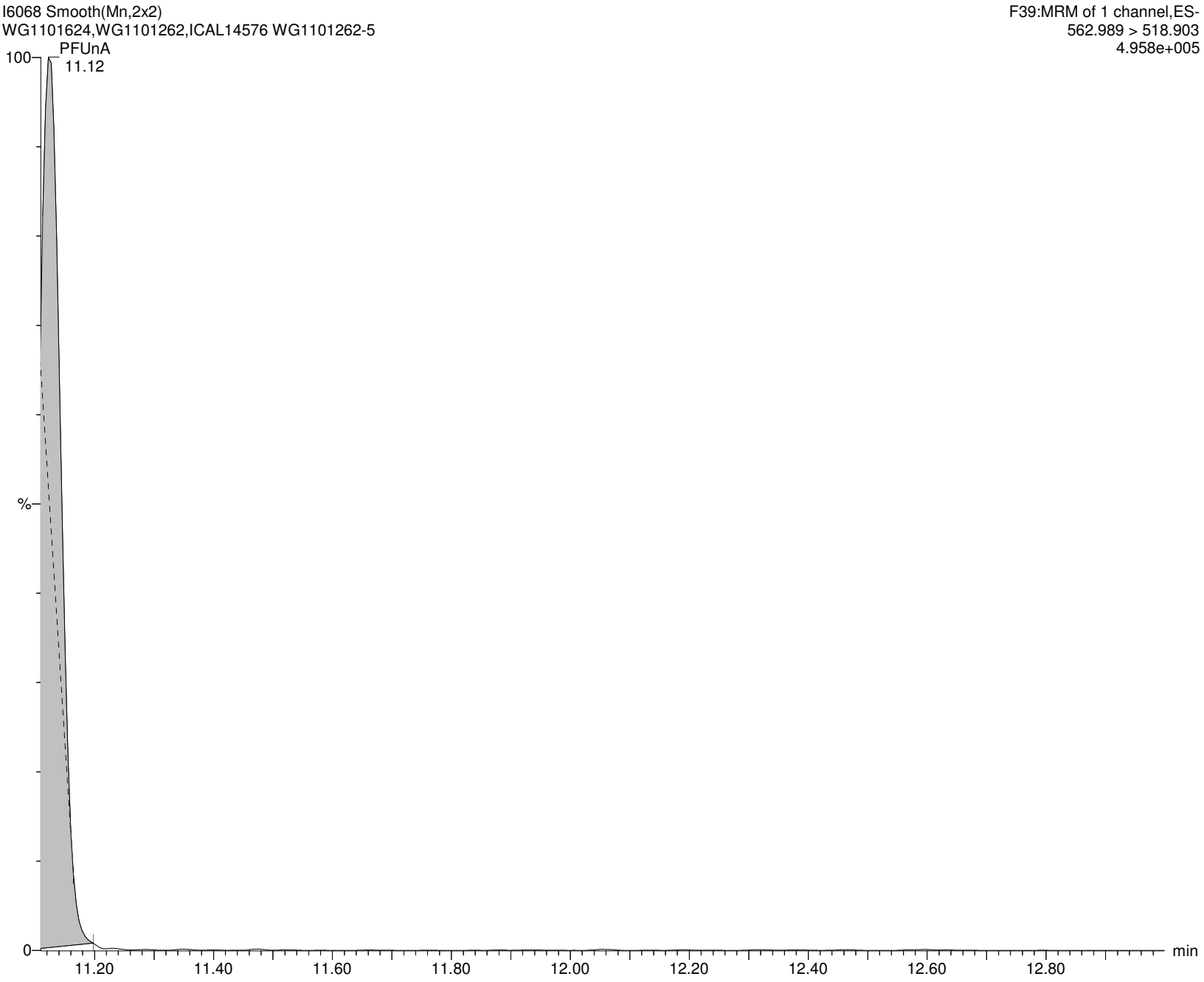

all concentration units in (ng/mL)

Alpha Analytical Inc.
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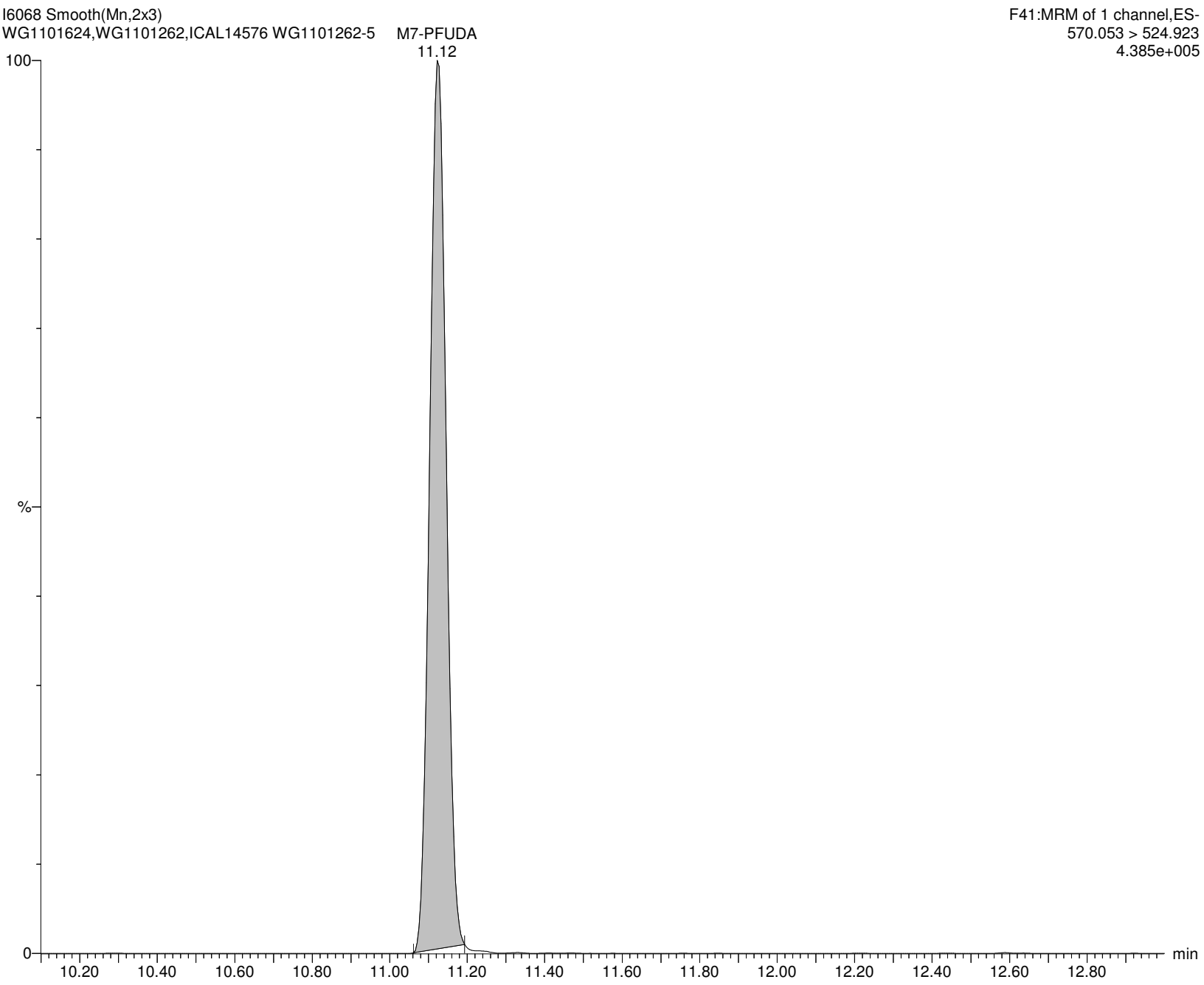
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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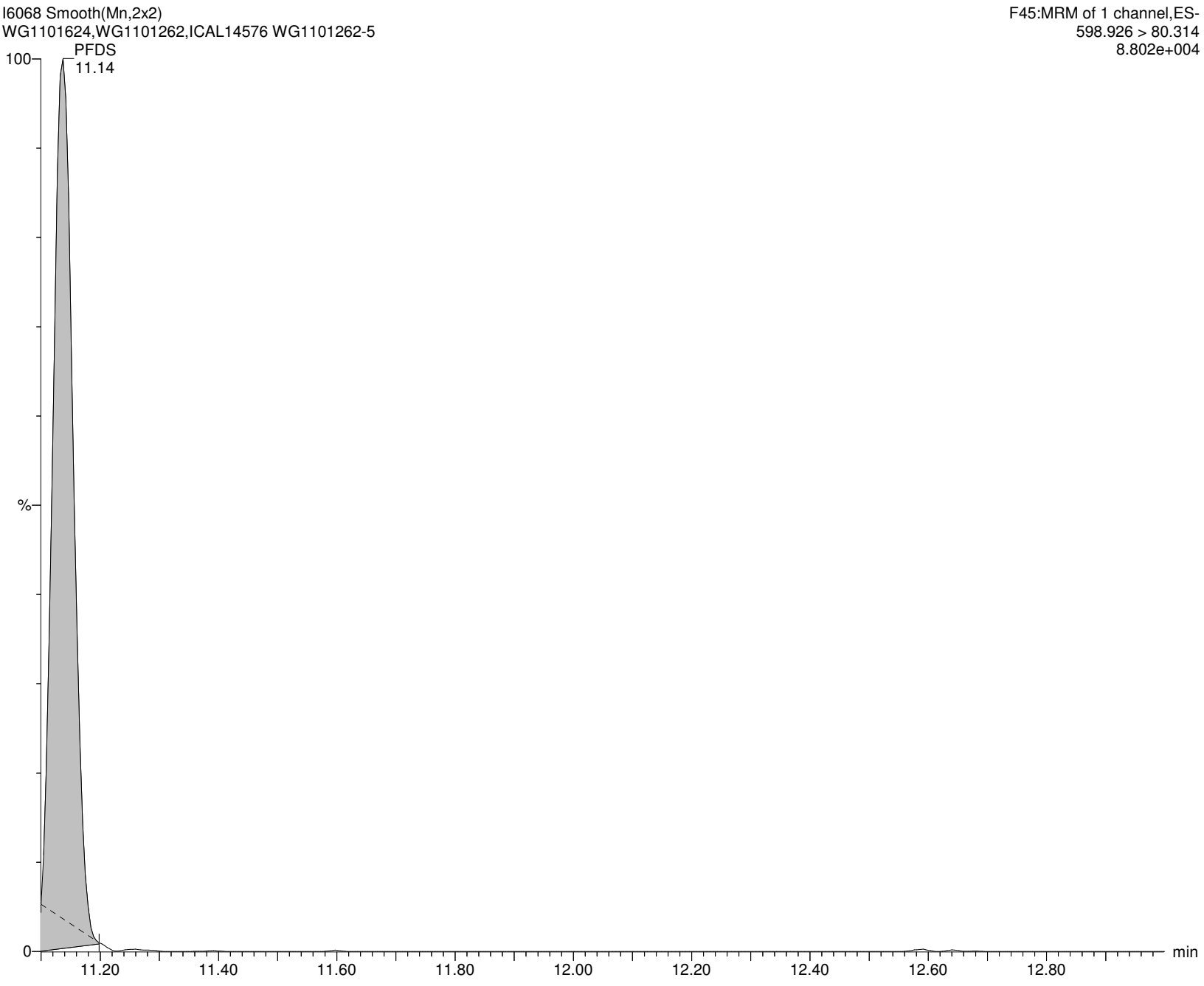

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2018\180329_537ISO.PRO\Data\wg1101262B.qld
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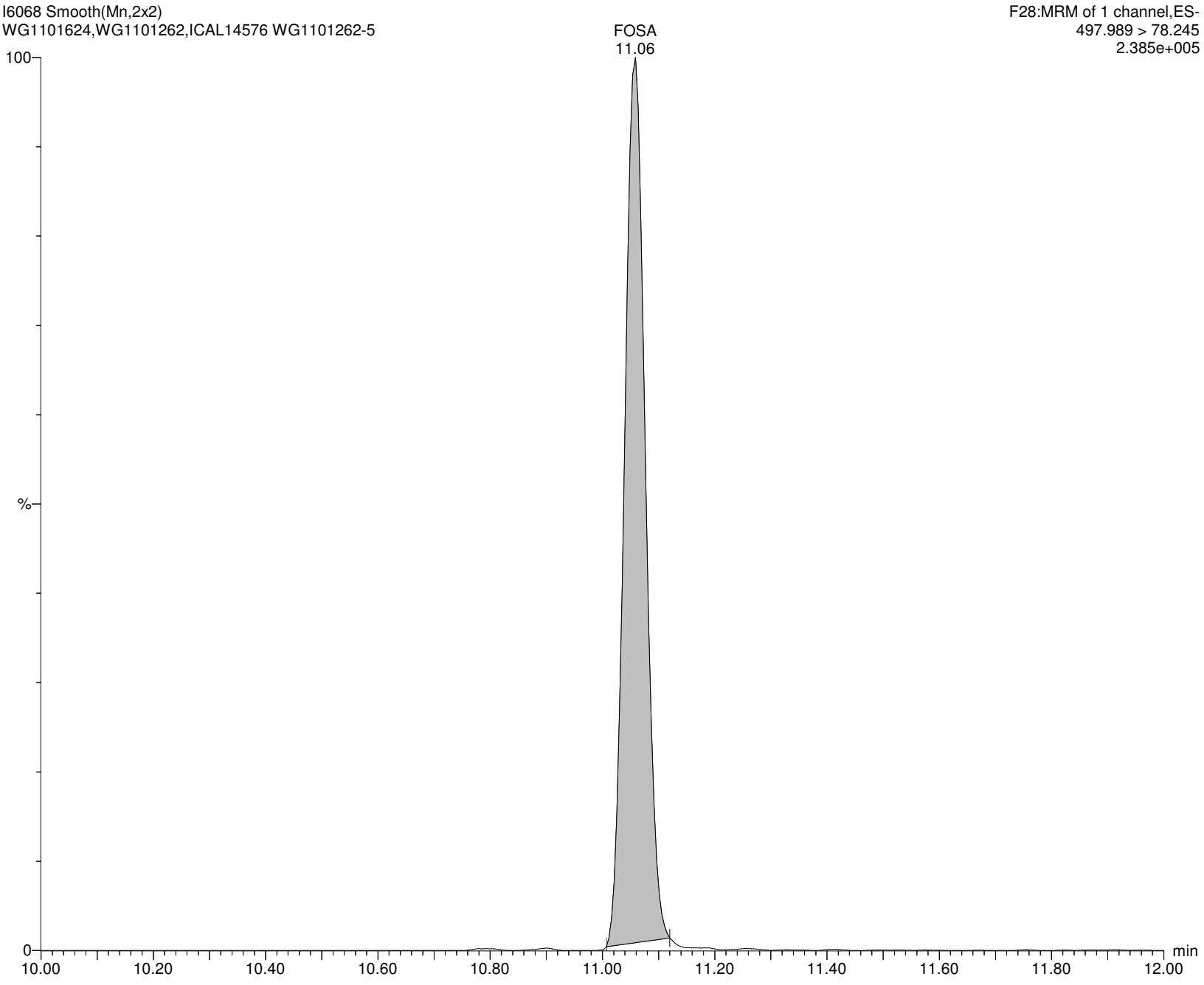

all concentration units in (ng/mL)

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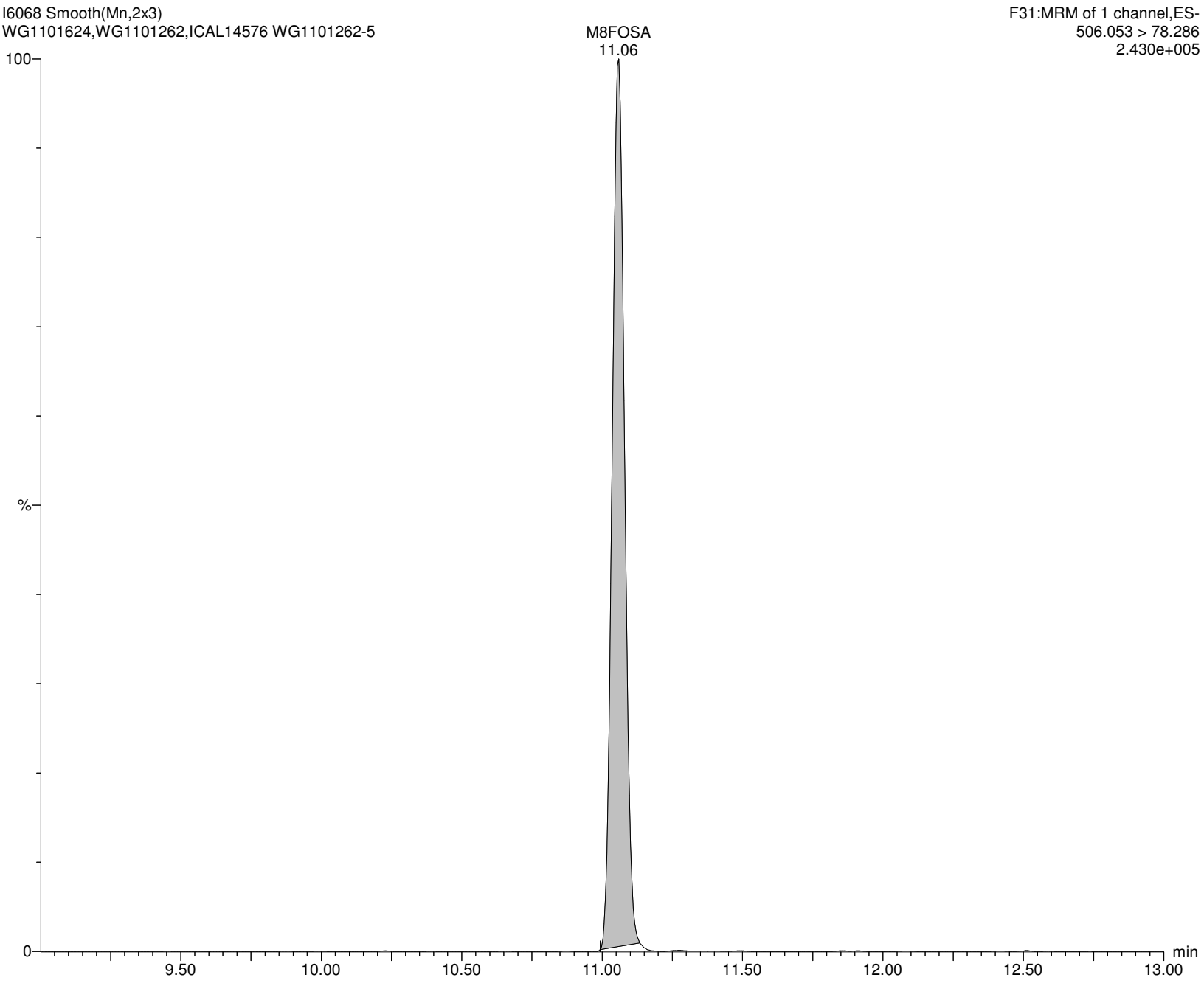

all concentration units in (ng/mL)

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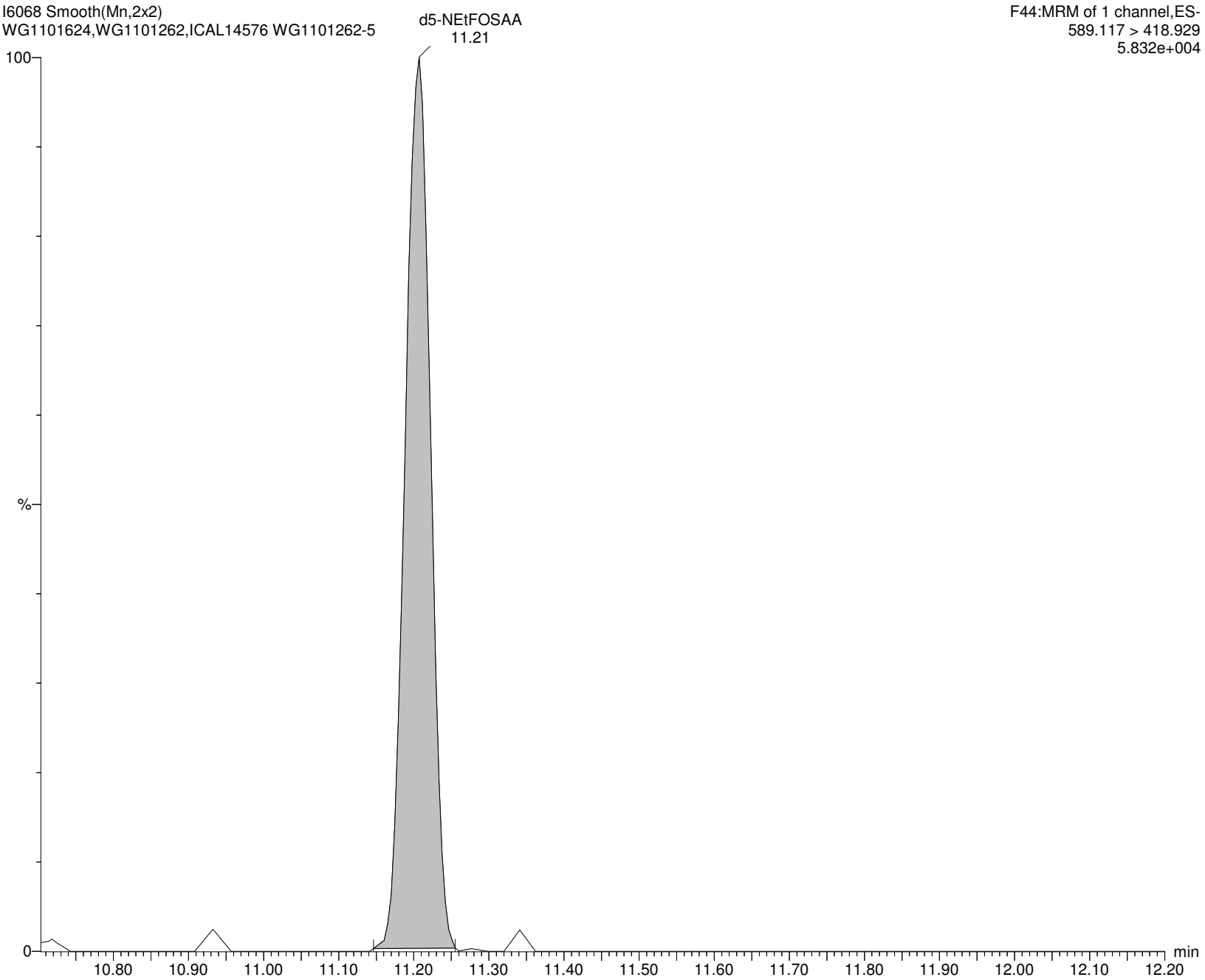
d5-NEtFOSAA



all concentration units in (ng/mL)

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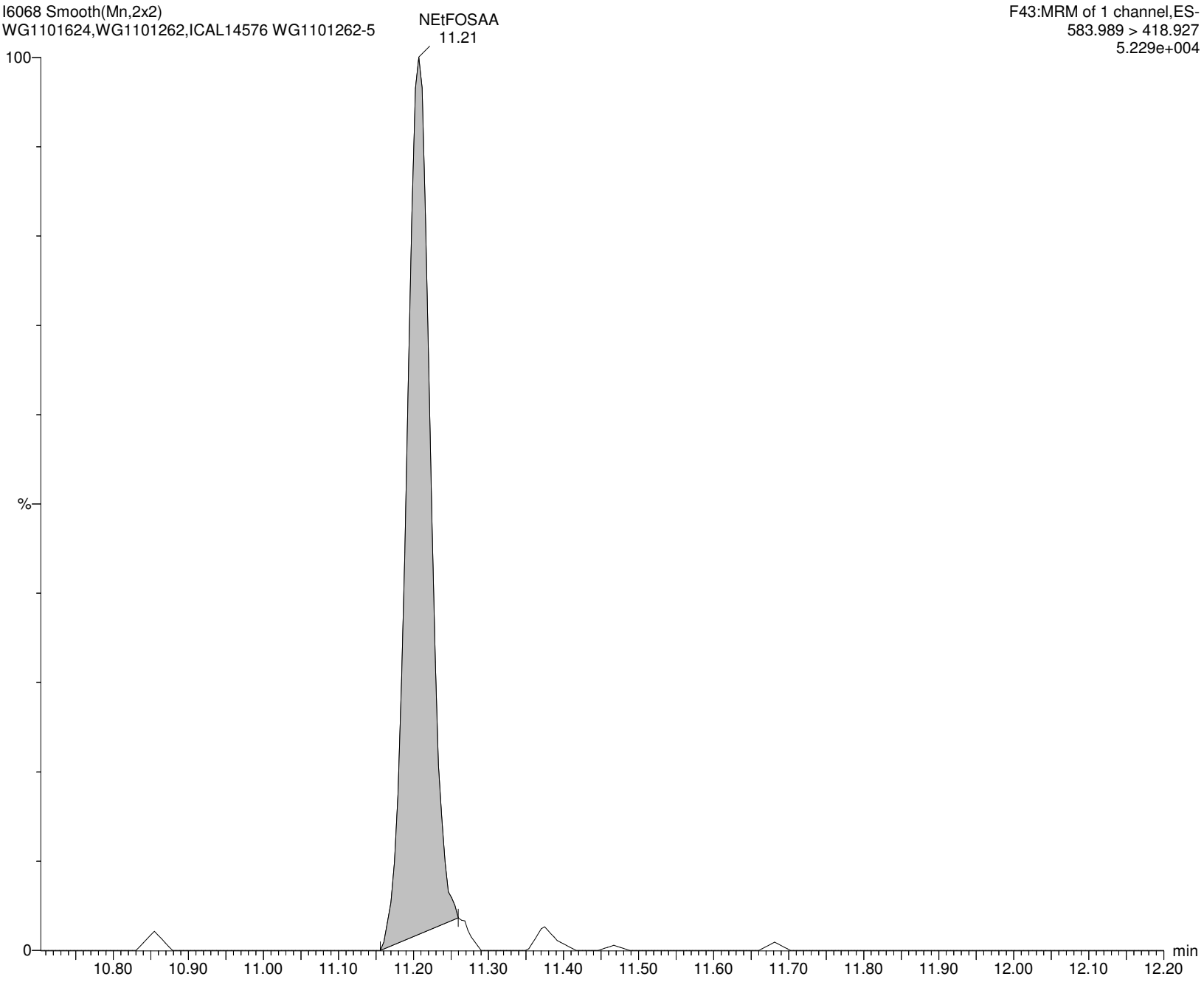

all concentration units in (ng/mL)

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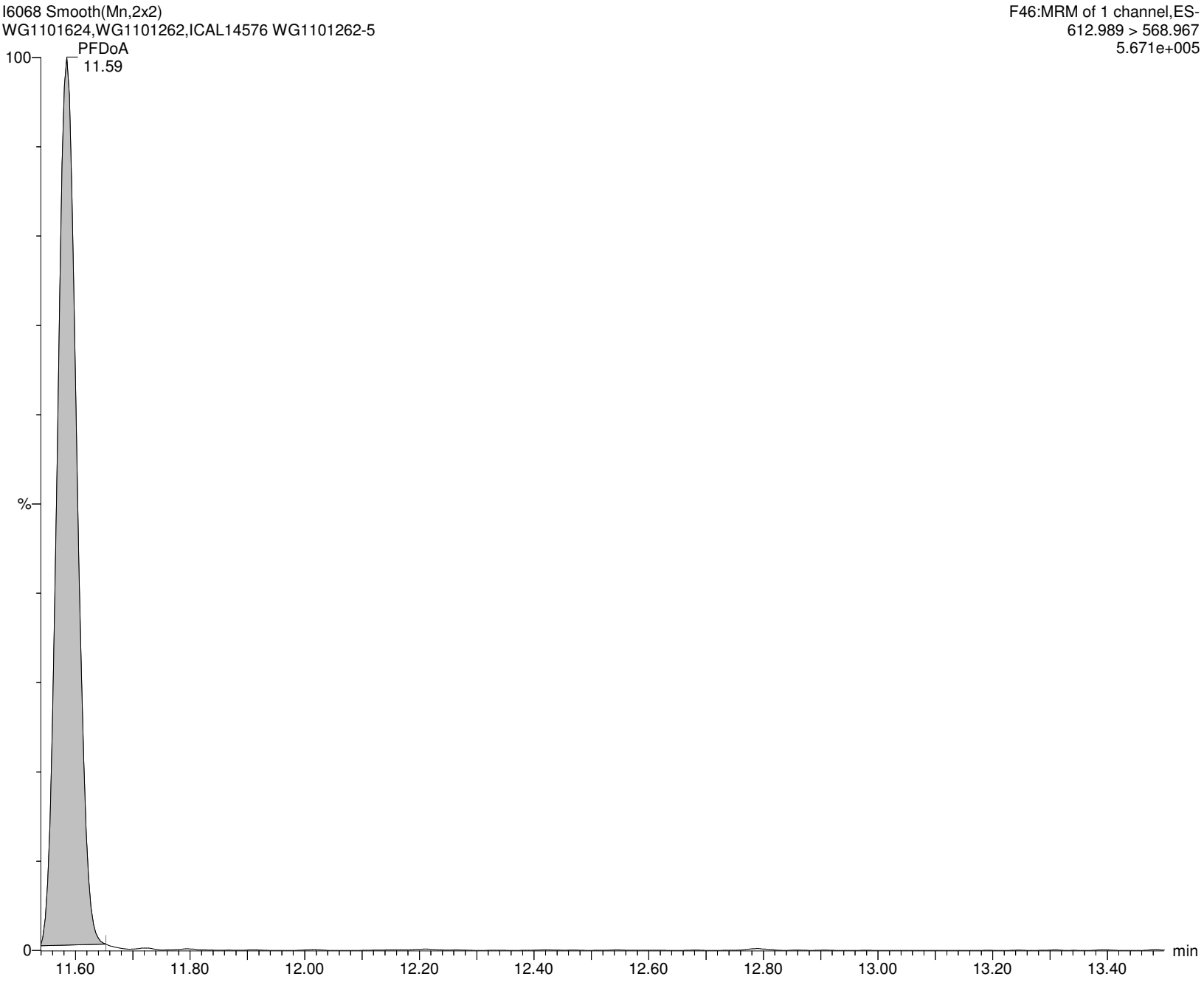

all concentration units in (ng/mL)

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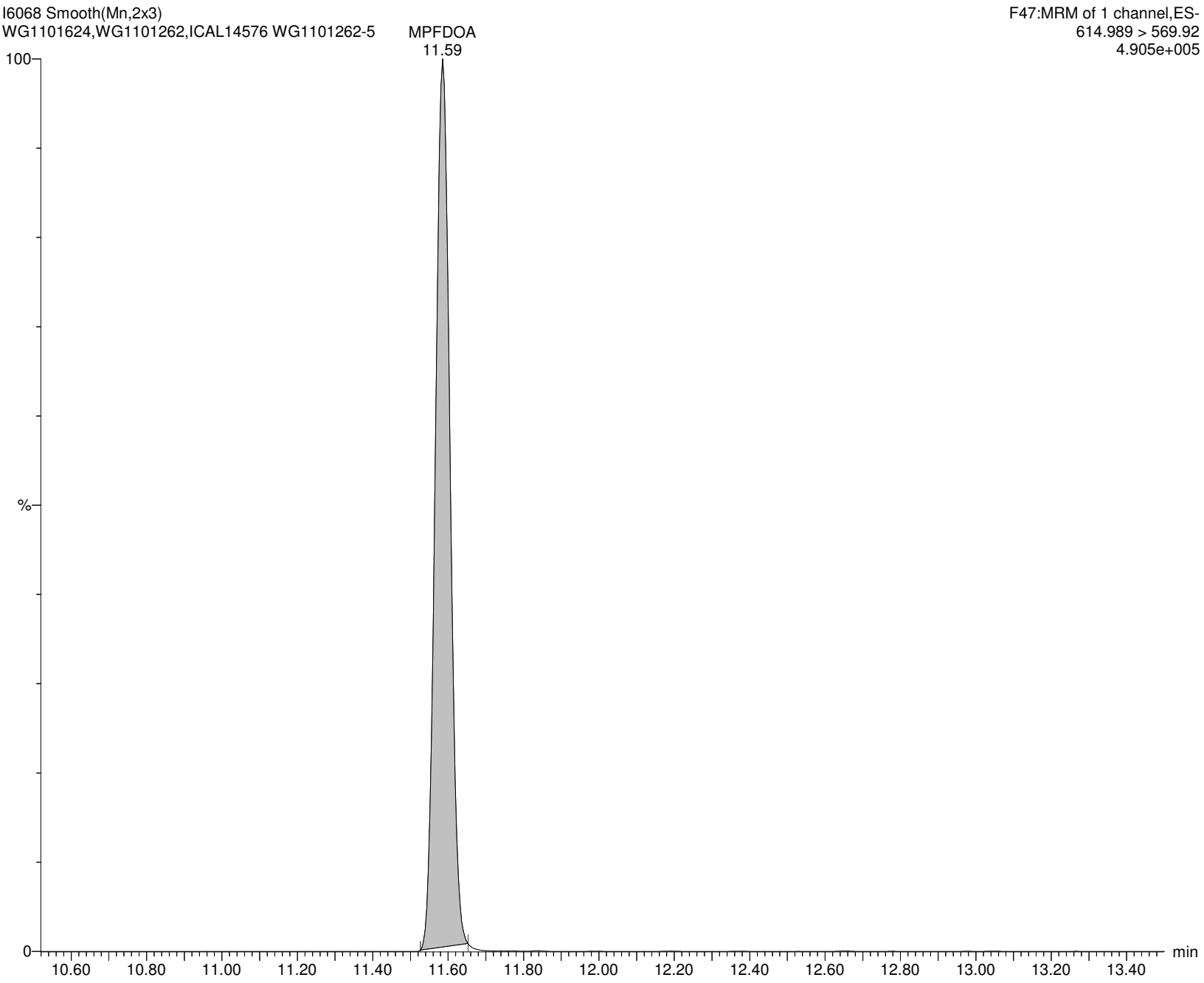

all concentration units in (ng/mL)

Alpha Analytical Inc.
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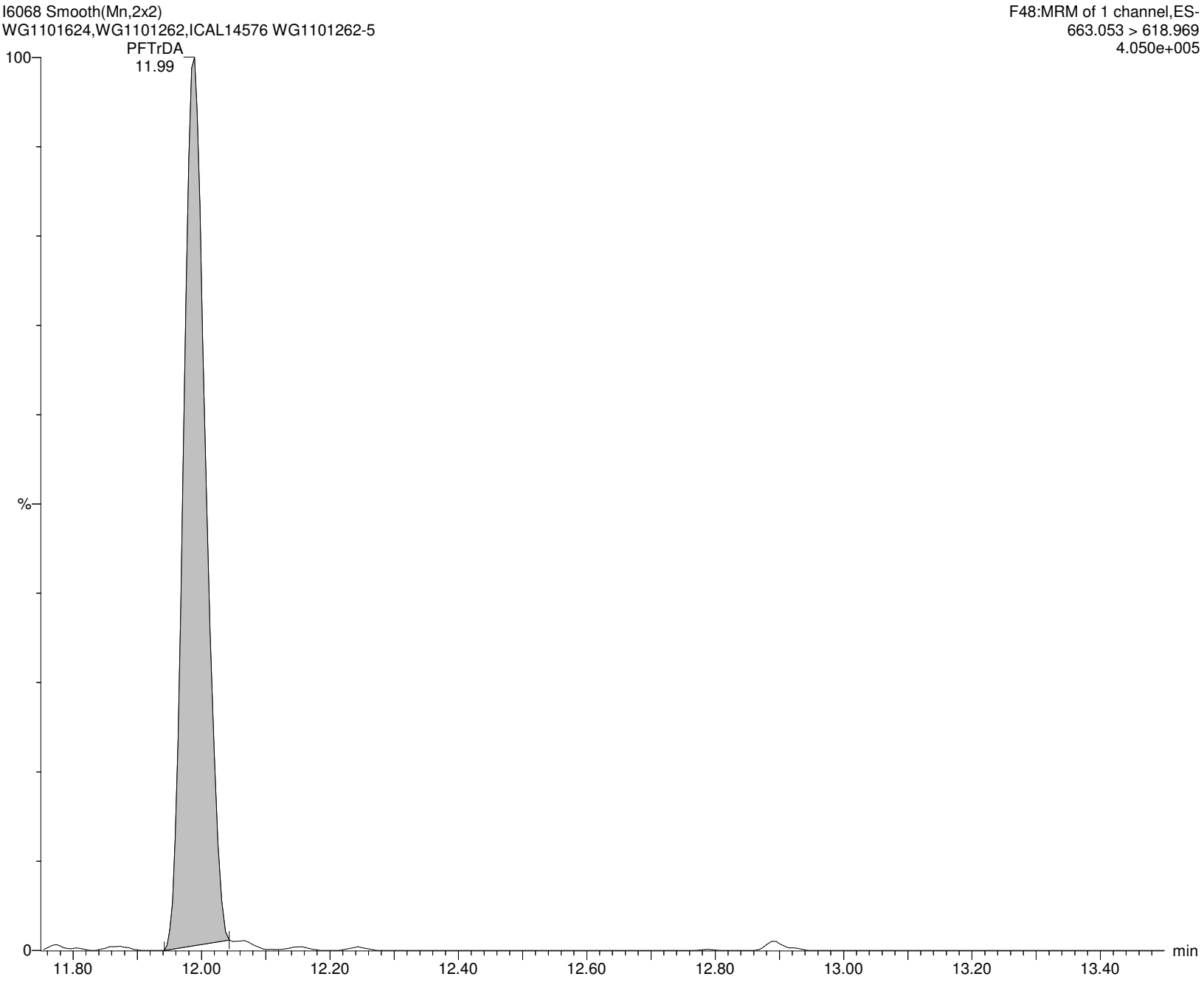

all concentration units in (ng/mL)

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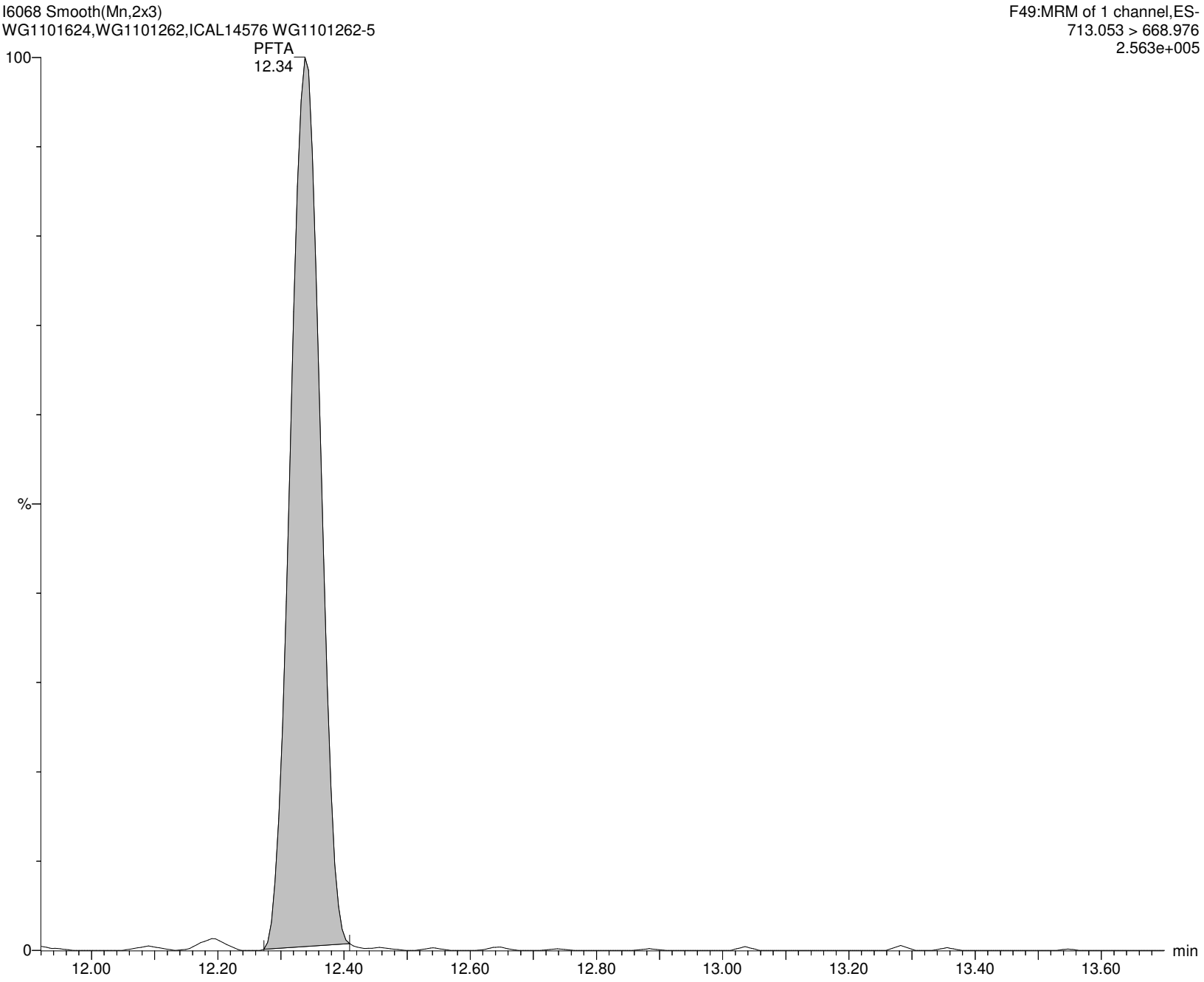

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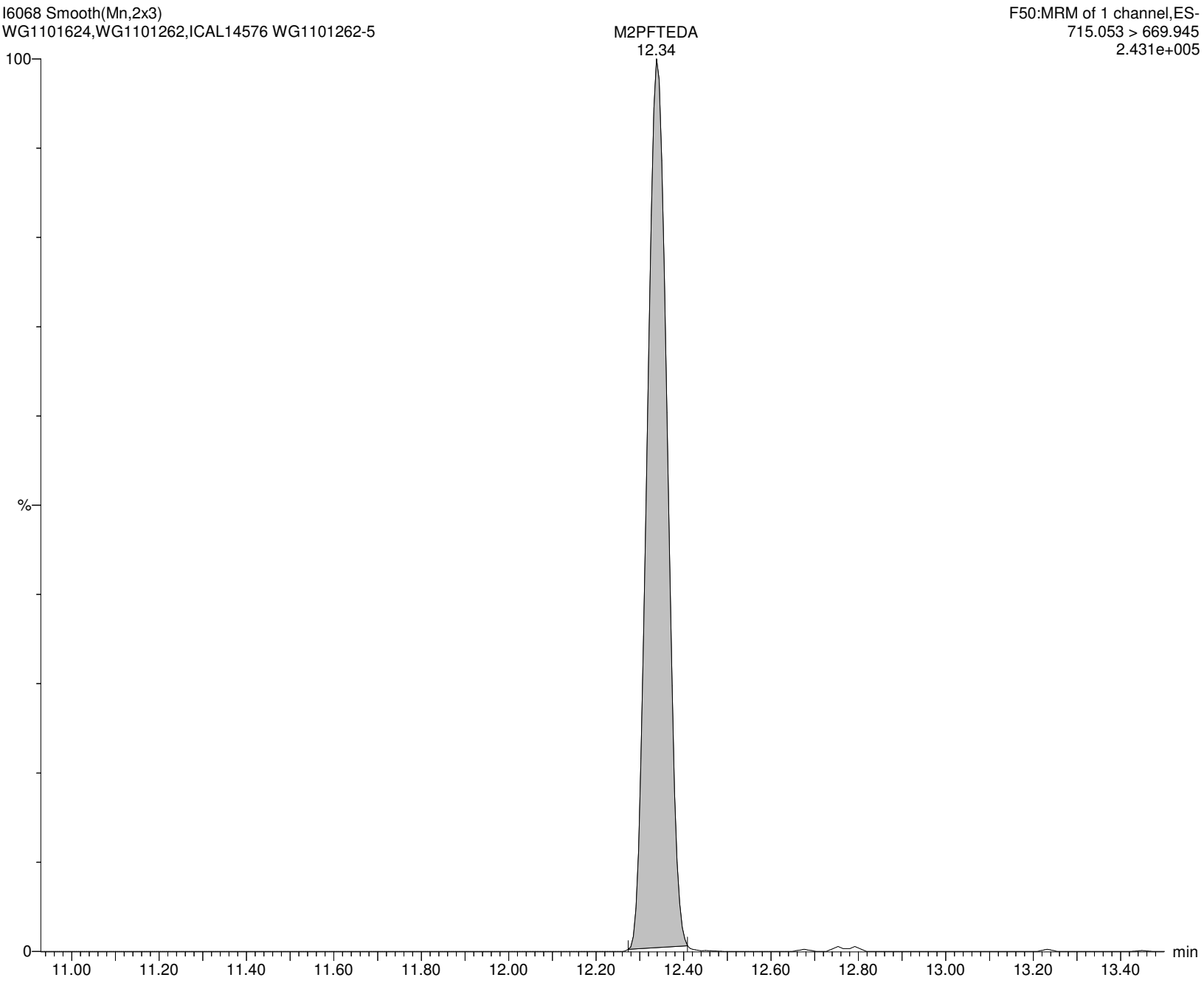

all concentration units in (ng/mL)

Sample Preparation

ORGANIC ELN REPORT

Workgroup: WG1101262

Prep Method: EPA 537(M)
Solvent Type: Methanol
Surrogate Type: NA
Spike Type: 537
Spike Verify by: NA
Lims Spikelot: 537I

Lot #: DT507
Lot #: LC_537_ISO_Surr_180320
Lot #: LC_537_LCS_180316A

Additional Reagents/Stds

1:1 Acetic Acid	
IS	LC_537_ISO_ISTD_1803

Conc.Method: N-EVAP
Solvent Type: 96:4 Methanol/Wate
Lot #: OW032318A

Additional Reagents/Stds

IS	LC_537_ISO_ISTD_1803

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction							Concentration			
	Extract Date	Analyst	Sample Weight g	Surr Amt ml	Spike Amt ml	Lot: Clnup Cartrid	Flow Rate ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit
L1808174-01 SOIL	03/28/18 12:18	Phil Bassignani	2.03	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5
L1808174-02 SOIL	03/28/18 12:18	Phil Bassignani	2.12	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5
L1809219-01 SOIL	03/28/18 12:18	Phil Bassignani	2.00	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5
L1809219-02 SOIL	03/28/18 12:18	Phil Bassignani	2.03	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5
WG1101262-1 BLANK	03/28/18 12:18	Phil Bassignani	2.00	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5
WG1101262-2 LCS	03/28/18 12:18	Phil Bassignani	2.00	.02	.02	10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5

Reported: 03-APR-18 12:13 PM

ORGANIC ELN REPORT

Workgroup: WG1101262

Sample/ Type	Extraction							Concentration				
	Extract Date	Analyst	Sample Weight **g**	Surr Amt **ml**	Spike Amt **ml**	Lot: Clnup Cartrid	Flow Rate **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	
WG1101262-3 LCSD	03/28/18 12:18	Phil Bassignani	2.00	.02	.02	10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5	
WG1101262-4 DUP	03/28/18 12:18	Phil Bassignani	2.02	.02		10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5	
WG1101262-5 MS	03/28/18 12:18	Phil Bassignani	2.02	.02	.02	10052001	2	03/29/18 14:31	Phil Bassignani	1	NEVAP 65 5	

Wet Chemistry

Total Solids / Percent Moisture Analysis

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-28-18 13:33:53

WorkGroup WG1100961
Title Solids, Total
Method SM2540G
Instrumen BALANCEWC1

Temp In (C)	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**	
Temp Out (C)	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**	
Time In	27-MAR-18 17:15	**Time In**	28-MAR-18 10:42	**Time In**		**Time In**	
Time Out	28-MAR-18 10:40	**Time Out**	28-MAR-18 13:33	**Time Out**		**Time Out**	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L1808174-01	27-MAR-18 17:15	LAUREN DINGLE	1.18	7.38	7.02	7.02			94.19	
L1808174-02	27-MAR-18 17:15	LAUREN DINGLE	1.19	9.8	9.31	9.31			94.31	
WG1100961-1	27-MAR-18 17:15	LAUREN DINGLE	1.17	6.97	6.6	6.61			93.62	

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Apr 03 2018, 01:34 pm

Work Group: WG1100961 for Department: 7 Wet Chemistry

Created: 27-MAR-18 Due: Operator: LD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1808174-01	CONCRETE (0-2")	S	A2-TS	SOIL	DONE	U	0316	0406	S0	Glass-A.06
L1808174-02	CONCRETE (5-7")	S	A2-TS	SOIL	DONE	U	0316	0406	S0	Glass-A.06
WG1100961-1	Duplicate Sample	S	A2-TS	SOIL	DONE	U				

Comments:

WG1100961-1 L1808174-01

Alpha Report

ANALYTICAL REPORT

Lab Number:	L1808174
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Heather Moran-Botta
Phone:	(631) 589-6353
Project Name:	SHD1801
Project Number:	SHD1801
Report Date:	04/02/18

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHD1801
Project Number: SHD1801

Lab Number: L1808174
Report Date: 04/02/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808174-01	CONCRETE (0-2")	SOIL	YAPHANK, NY	03/09/18 12:00	03/09/18
L1808174-02	CONCRETE (5-7")	SOIL	YAPHANK, NY	03/09/18 12:00	03/09/18

Project Name: SHD1801 **Lab Number:** L1808174
Project Number: SHD1801 **Report Date:** 04/02/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: SHD1801 **Lab Number:** L1808174
Project Number: SHD1801 **Report Date:** 04/02/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L1808174-01: Due to sample matrix, the Extracted Internal Standard recoveries were outside the acceptance criteria for perfluoro[13c4]butanoic acid (mpfba) (40%), perfluoro[13c5]pentanoic acid (m5pfpea) (41%), perfluoro[2,3,4-13c3]butanesulfonic acid (m3pfbs) (42%), 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (16%), perfluoro[1,2,3,4,6-13c5]hexanoic acid (m5pfhxa) (32%), perfluoro[1,2,3,4-13c4]heptanoic acid (m4pfhpa) (35%), perfluoro[1,2,3-13c3]hexanesulfonic acid (m3pfhxs) (45%), perfluoro[13c8]octanoic acid (m8pfoa) (36%), 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (12%), perfluoro[13c9]nonanoic acid (m9pfna) (33%), perfluoro[13c8]octanesulfonic acid (m8pfos) (42%), perfluoro[1,2,3,4,5,6-13c6]decanoic acid (m6pfda) (39%), 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (13%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (10%), perfluoro[1,2,3,4,5,6,7-13c7]undecanoic acid (m7-pfuda) (37%), perfluoro[13c8]octanesulfonamide (m8fosa) (37%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (10%), perfluoro[1,2-13c2]dodecanoic acid (mpfdoa) (32%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (21%).

L1808174-02: Due to sample matrix, the Extracted Internal Standard recoveries were outside the acceptance criteria for perfluoro[13c4]butanoic acid (mpfba) (46%), perfluoro[2,3,4-13c3]butanesulfonic acid (m3pfbs) (41%), 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (26%), perfluoro[1,2,3,4,6-13c5]hexanoic acid (m5pfhxa) (40%), perfluoro[1,2,3,4-13c4]heptanoic acid (m4pfhpa) (41%), perfluoro[1,2,3-13c3]hexanesulfonic acid (m3pfhxs) (44%), perfluoro[13c8]octanoic acid (m8pfoa) (42%), 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (26%), perfluoro[13c9]nonanoic acid (m9pfna) (40%), perfluoro[13c8]octanesulfonic acid (m8pfos) (44%), perfluoro[1,2,3,4,5,6-13c6]decanoic acid (m6pfda) (44%), 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (26%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (28%), perfluoro[1,2,3,4,5,6,7-13c7]undecanoic acid (m7-pfuda) (45%), perfluoro[13c8]octanesulfonamide (m8fosa) (41%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (27%), perfluoro[1,2-13c2]dodecanoic acid (mpfdoa) (37%) and

Project Name: SHD1801 **Lab Number:** L1808174
Project Number: SHD1801 **Report Date:** 04/02/18

Case Narrative (continued)

perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (36%). Associated QC (Matrix Spike) performed on sample had spike recoveries within acceptance criteria.

WG1101262-1: The Extracted Internal Standard recoveries were outside the acceptance criteria for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (30%), perfluoro[13c8]octanesulfonamide (m8fosa) (13%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (38%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (44%).

WG1101262-2: The Extracted Internal Standard recoveries were outside the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (49%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (33%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (26%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (36%).

WG1101262-3: The Extracted Internal Standard recoveries were outside the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (48%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (36%), perfluoro[13c8]octanesulfonamide (m8fosa) (49%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (47%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (38%).

The WG1101262-2/-3 LCS/LCSD RPD, associated with L1808174-01 and -02, is above the acceptance criteria for n-ethyl perfluorooctanesulfonamidoacetic acid (netfosaa) (56%).

WG1101262-5: The Extracted Internal Standard recoveries were outside the acceptance criteria for perfluoro[2,3,4-13c3]butanesulfonic acid (m3pfbs) (44%), 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (30%), perfluoro[1,2,3,4,6-13c5]hexanoic acid (m5pfhxa) (43%), perfluoro[1,2,3,4-13c4]heptanoic acid (m4pfhpa) (45%), perfluoro[1,2,3-13c3]hexanesulfonic acid (m3pfhxs) (47%), perfluoro[13c8]octanoic acid (m8pfoa) (48%), 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (31%), perfluoro[13c9]nonanoic acid (m9pfna) (46%), 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (29%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (34%), n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (36%), perfluoro[1,2-13c2]dodecanoic acid (mpfdoa) (49%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (37%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 04/02/18

ORGANICS

SEMIVOLATILES

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-01
Client ID: CONCRETE (0-2")
Sample Location: YAPHANK, NY

Date Collected: 03/09/18 12:00
Date Received: 03/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 03/29/18 18:01
Analyst: AJ
Percent Solids: 94%

Extraction Method: EPA 537(M)
Extraction Date: 03/28/18 12:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.511	J	ng/g	1.04	0.022	1
Perfluoropentanoic Acid (PFPeA)	1.01	J	ng/g	1.04	0.011	1
Perfluorobutanesulfonic Acid (PFBS)	0.794	J	ng/g	1.04	0.066	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.04	0.113	1
Perfluorohexanoic Acid (PFHxA)	2.38		ng/g	1.04	0.067	1
Perfluoropentanesulfonic Acid (PFPeS)	0.234	J	ng/g	1.04	0.101	1
Perfluoroheptanoic Acid (PFHpA)	0.124	J	ng/g	1.04	0.067	1
Perfluorohexanesulfonic Acid (PFHxS)	0.545	J	ng/g	1.04	0.060	1
Perfluorooctanoic Acid (PFOA)	0.186	J	ng/g	1.04	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.41		ng/g	1.04	0.207	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.04	0.142	1
Perfluorononanoic Acid (PFNA)	0.208	J	ng/g	1.04	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	0.708	J	ng/g	1.04	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.04	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.524	J	ng/g	1.04	0.288	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.04	0.092	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.04	0.108	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.04	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.04	0.101	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.04	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.04	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.04	0.090	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.04	0.065	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.04	0.073	1

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-01 Date Collected: 03/09/18 12:00

Client ID: CONCRETE (0-2") Date Received: 03/09/18

Sample Location: YAPHANK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**40**	Q	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	**41**	Q	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**42**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**16**	Q	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**32**	Q	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**35**	Q	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**45**	Q	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**36**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**12**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**33**	Q	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**42**	Q	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**39**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**13**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**10**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	**37**	Q	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**37**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**10**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	**32**	Q	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**21**	Q	50-150

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-02
Client ID: CONCRETE (5-7")
Sample Location: YAPHANK, NY

Date Collected: 03/09/18 12:00
Date Received: 03/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 03/29/18 18:17
Analyst: AJ
Percent Solids: 94%

Extraction Method: EPA 537(M)
Extraction Date: 03/28/18 12:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.248	J	ng/g	1.00	0.021	1
Perfluoropentanoic Acid (PFPeA)	1.02		ng/g	1.00	0.010	1
Perfluorobutanesulfonic Acid (PFBS)	0.238	J	ng/g	1.00	0.064	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.108	1
Perfluorohexanoic Acid (PFHxA)	6.49		ng/g	1.00	0.064	1
Perfluoropentanesulfonic Acid (PFPeS)	0.662	J	ng/g	1.00	0.097	1
Perfluoroheptanoic Acid (PFHpA)	1.54		ng/g	1.00	0.064	1
Perfluorohexanesulfonic Acid (PFHxS)	4.98		ng/g	1.00	0.057	1
Perfluorooctanoic Acid (PFOA)	1.29		ng/g	1.00	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	6.92		ng/g	1.00	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.00	0.136	1
Perfluorononanoic Acid (PFNA)	0.592	J	ng/g	1.00	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.816	J	ng/g	1.00	0.120	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.00	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.00	0.275	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.088	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.00	0.103	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.00	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.00	0.097	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.00	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.00	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.00	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.00	0.062	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.00	0.070	1

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-02 Date Collected: 03/09/18 12:00

Client ID: CONCRETE (5-7") Date Received: 03/09/18

Sample Location: YAPHANK, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**46**	Q	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	50		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**41**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**26**	Q	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**40**	Q	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**41**	Q	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**44**	Q	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**42**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**26**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**40**	Q	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**44**	Q	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**44**	Q	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**26**	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**28**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	**45**	Q	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**41**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**27**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	**37**	Q	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**36**	Q	50-150

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 03/29/18 16:22
Analyst: AJ

Extraction Method: EPA 537(M)
Extraction Date: 03/28/18 12:18

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1101262-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	1.00	0.021
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	1.00	0.010
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	1.00	0.064
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.108
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.00	0.064
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.00	0.097
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	1.00	0.064
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	1.00	0.057
Perfluorooctanoic Acid (PFOA)	ND		ng/g	1.00	0.041
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	1.00	0.198
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.00	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	1.00	0.083
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	1.00	0.120
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.00	0.072
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.00	0.275
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.088
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.00	0.103
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.00	0.056
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.00	0.097
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.00	0.102
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.00	0.090
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.00	0.086
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.00	0.062
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.00	0.070

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 03/29/18 16:22
Analyst: AJ

Extraction Method: EPA 537(M)
Extraction Date: 03/28/18 12:18

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1101262-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	76		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	62		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	68		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	73		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	73		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	61		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**30**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**13**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**38**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**44**	Q	50-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHD1801

Project Number: SHD1801

Lab Number: L1808174

Report Date: 04/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1101262-2 WG1101262-3								
Perfluorobutanoic Acid (PFBA)	104		112		50-150	7		30
Perfluoropentanoic Acid (PFPeA)	107		113		50-150	5		30
Perfluorobutanesulfonic Acid (PFBS)	106		114		50-150	7		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	107		116		50-150	8		30
Perfluorohexanoic Acid (PFHxA)	113		119		50-150	5		30
Perfluoropentanesulfonic Acid (PFPeS)	101		107		50-150	6		30
Perfluoroheptanoic Acid (PFHpA)	106		114		50-150	7		30
Perfluorohexanesulfonic Acid (PFHxS)	119		124		50-150	4		30
Perfluorooctanoic Acid (PFOA)	101		108		50-150	7		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	104		122		50-150	16		30
Perfluoroheptanesulfonic Acid (PFHpS)	107		107		50-150	0		30
Perfluorononanoic Acid (PFNA)	112		118		50-150	5		30
Perfluorooctanesulfonic Acid (PFOS)	102		101		50-150	1		30
Perfluorodecanoic Acid (PFDA)	106		120		50-150	12		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	135		128		50-150	5		30
Perfluorononanesulfonic Acid (PFNS)	105		111		50-150	6		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	94		101		50-150	7		30
Perfluoroundecanoic Acid (PFUnA)	101		107		50-150	6		30
Perfluorodecanesulfonic Acid (PFDS)	99		100		50-150	1		30
Perfluorooctanesulfonamide (FOSA)	105		113		50-150	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	128		72		50-150	**56**	Q	30
Perfluorododecanoic Acid (PFDoA)	103		108		50-150	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHD1801

Project Number: SHD1801

Lab Number: L1808174

Report Date: 04/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1101262-2 WG1101262-3								
Perfluorotridecanoic Acid (PFTrDA)	79		77		50-150	3		30
Perfluorotetradecanoic Acid (PFTA)	122		101		50-150	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		89		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		87		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	68		71		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	56		55		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		70		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	69		71		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	71		72		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	71		74		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	50		**48**	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	68		70		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	66		71		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		73		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**49**	Q	55		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**33**	Q	**36**	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		74		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	65		**49**	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**26**	Q	**47**	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		68		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**36**	Q	**38**	Q	50-150

Matrix Spike Analysis

Batch Quality Control

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1101262-5 QC Sample: L1808174-02 Client ID: CONCRETE (5-7")												
Perfluorobutanoic Acid (PFBA)	0.248J	5.25	5.78	110		-	-		50-150	-		30
Perfluoropentanoic Acid (PFPeA)	1.02	5.25	6.56	106		-	-		50-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	0.238J	5.25	5.93	113		-	-		50-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.25	5.85	111		-	-		50-150	-		30
Perfluorohexanoic Acid (PFHxA)	6.49	5.25	11.4	94		-	-		50-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	0.662J	5.25	6.27	119		-	-		50-150	-		30
Perfluoroheptanoic Acid (PFHpA)	1.54	5.25	7.45	113		-	-		50-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	4.98	5.25	12.8	149		-	-		50-150	-		30
Perfluorooctanoic Acid (PFOA)	1.29	5.25	6.92	107		-	-		50-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	6.92	5.25	13.3	122		-	-		50-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.25	5.20	99		-	-		50-150	-		30
Perfluorononanoic Acid (PFNA)	0.592J	5.25	7.29	139		-	-		50-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.816J	5.25	5.89	112		-	-		50-150	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.25	5.72	109		-	-		50-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.25	7.89	150		-	-		50-150	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.25	5.85	111		-	-		50-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.25	5.86	112		-	-		50-150	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.25	5.15	98		-	-		50-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.25	5.29	101		-	-		50-150	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.25	5.29	101		-	-		50-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.25	4.73	90		-	-		50-150	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.25	5.45	104		-	-		50-150	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SHD1801
Project Number: SHD1801
Lab Number: L1808174
Report Date: 04/02/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1101262-5 QC Sample: L1808174-02 Client ID: CONCRETE (5-7")												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.25	4.17	79		-	-		50-150	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.25	6.68	127		-	-		50-150	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**29**	Q			50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**30**	Q			50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**31**	Q			50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**36**	Q			50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**34**	Q			50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	50				50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	51				50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**43**	Q			50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**45**	Q			50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**47**	Q			50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	**49**	Q			50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**37**	Q			50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	50				50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	53				50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52				50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	53				50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**48**	Q			50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**46**	Q			50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**44**	Q			50-150

INORGANICS
&
MISCELLANEOUS

Project Name: SHD1801
Project Number: SHD1801

Lab Number: L1808174
Report Date: 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-01
Client ID: CONCRETE (0-2")
Sample Location: YAPHANK, NY

Date Collected: 03/09/18 12:00
Date Received: 03/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	94.2		%	0.100	0.100	1	-	03/27/18 17:15	121,2540G	LD

Project Name: SHD1801
Project Number: SHD1801

Lab Number: L1808174
Report Date: 04/02/18

SAMPLE RESULTS

Lab ID: L1808174-02
Client ID: CONCRETE (5-7")
Sample Location: YAPHANK, NY

Date Collected: 03/09/18 12:00
Date Received: 03/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	94.3		%	0.100	0.100	1	-	03/27/18 17:15	121,2540G	LD

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHD1801
Project Number: SHD1801

Lab Number: L1808174
Report Date: 04/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1100961-1 QC Sample: L1808174-01 Client ID: CONCRETE (0-2")						
Solids, Total	94.2	93.6	%	1		10

Project Name: SHD1801
Project Number: SHD1801

Lab Number: L1808174
Report Date: 04/02/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	*Custody Seal*
A	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1808174-01A	Plastic 500ml unpreserved	A	NA		2.4	Y	Absent		HOLD-CONTINGENCY(14),A2-TS(7),A2-537-ISOTOPE(28)
L1808174-02A	Plastic 500ml unpreserved	A	NA		2.4	Y	Absent		HOLD-CONTINGENCY(14),A2-TS(7),A2-537-ISOTOPE(28)

*Values in parentheses indicate holding time in days

Project Name:	SHD1801	**Lab Number:**	L1808174
Project Number:	SHD1801	**Report Date:**	04/02/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	SHD1801	**Lab Number:**	L1808174
Project Number:	SHD1801	**Report Date:**	04/02/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: SHD1801 **Lab Number:** L1808174

Project Number: SHD1801 **Report Date:** 04/02/18

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

122 Determination of Selected Perfluorintated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/9/18

ALPHA Job #: L1809174

Client Information
Client: PWGR
Address: 630 Johnson Ave Ste 7
Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: andy.l@pwgrosser.com

Project Information
Project Name: SHD1801
Project Location: Yaphank, NY
Project #
(Use Project name as Project #) [X]
Project Manager: Heather Morgan-Botta
ALPHAQuote #:

Turn-Around Time
Standard [ ] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	24hr								Sample Specific Comments
08174-01	Concrete (0-2")	3/9/18	1200	C	NF	X								Hold
-02	Concrete (5-7")	↓	↓	↓	↓	X								Hold

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P								
Preservative	A								

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/18 1400		3/9/18 1400
	3/9/18 1423		3/9/18 1423
	3/9/18 2315		3/9/18 2315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Alpha
Summary Forms

Organic Summary Forms

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	Lab Number	: L1808174
Project Name	: SHD1801	Project Number	: SHD1801
Lab ID	: L1808174-01	Date Collected	: 03/09/18 12:00
Client ID	: CONCRETE (0-2')	Date Received	: 03/09/18
Sample Location	: YAPHANK, NY	Date Analyzed	: 03/29/18 18:01
Sample Matrix	: SOIL	Date Extracted	: 03/28/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I6066	Analyst	: AJ
Sample Amount	: 2.03 g	Instrument ID	: LCMS01
Extraction Method	: EPA 537(M)	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 94
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	0.511	1.04	0.022	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.01	1.04	0.011	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.794	1.04	0.066	J
NONE	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	1.04	0.113	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	2.38	1.04	0.067	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.234	1.04	0.101	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.124	1.04	0.067	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.545	1.04	0.060	J
335-67-1	Perfluorooctanoic Acid (PFOA)	0.186	1.04	0.043	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.41	1.04	0.207	
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.04	0.142	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.208	1.04	0.087	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.708	1.04	0.126	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.04	0.075	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.524	1.04	0.288	J
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.04	0.092	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.04	0.108	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.04	0.059	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.04	0.101	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.04	0.107	U

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Lab ID	: L1808174-01	**Date Collected**	: 03/09/18 12:00
Client ID	: CONCRETE (0-2')	**Date Received**	: 03/09/18
Sample Location	: YAPHANK, NY	**Date Analyzed**	: 03/29/18 18:01
Sample Matrix	: SOIL	**Date Extracted**	: 03/28/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I6066	**Analyst**	: AJ
Sample Amount	: 2.03 g	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537(M)	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: 94
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/g			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.04	0.094	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.04	0.090	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.04	0.065	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.04	0.073	U

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	Lab Number	: L1808174
Project Name	: SHD1801	Project Number	: SHD1801
Lab ID	: L1808174-02	Date Collected	: 03/09/18 12:00
Client ID	: CONCRETE (5-7")	Date Received	: 03/09/18
Sample Location	: YAPHANK, NY	Date Analyzed	: 03/29/18 18:17
Sample Matrix	: SOIL	Date Extracted	: 03/28/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I6067	Analyst	: AJ
Sample Amount	: 2.12 g	Instrument ID	: LCMS01
Extraction Method	: EPA 537(M)	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 94
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	0.248	1.00	0.021	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.02	1.00	0.010	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.238	1.00	0.064	J
NONE	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	1.00	0.108	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	6.49	1.00	0.064	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.662	1.00	0.097	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.54	1.00	0.064	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	4.98	1.00	0.057	
335-67-1	Perfluorooctanoic Acid (PFOA)	1.29	1.00	0.041	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	6.92	1.00	0.198	
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.00	0.136	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.592	1.00	0.083	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.816	1.00	0.120	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.00	0.072	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.00	0.275	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.00	0.088	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.00	0.103	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.00	0.056	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.00	0.097	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.00	0.102	U

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Lab ID	: L1808174-02	**Date Collected**	: 03/09/18 12:00
Client ID	: CONCRETE (5-7")	**Date Received**	: 03/09/18
Sample Location	: YAPHANK, NY	**Date Analyzed**	: 03/29/18 18:17
Sample Matrix	: SOIL	**Date Extracted**	: 03/28/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I6067	**Analyst**	: AJ
Sample Amount	: 2.12 g	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537(M)	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: 94
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/g			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.00	0.090	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.00	0.086	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.00	0.062	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.00	0.070	U

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	Lab Number	: L1808174
Project Name	: SHD1801	Project Number	: SHD1801
Lab ID	: WG1101262-1	Date Collected	: NA
Client ID	: WG1101262-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/29/18 16:22
Sample Matrix	: SOIL	Date Extracted	: 03/28/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I6060	Analyst	: AJ
Sample Amount	: 2 g	Instrument ID	: LCMS01
Extraction Method	: EPA 537(M)	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.00	0.021	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.00	0.010	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.00	0.064	U
NONE	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	1.00	0.108	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.00	0.064	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.00	0.097	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.00	0.064	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.00	0.057	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.00	0.041	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.00	0.198	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.00	0.136	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.00	0.083	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.00	0.120	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.00	0.072	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.00	0.275	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.00	0.088	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.00	0.103	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.00	0.056	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.00	0.097	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.00	0.102	U

Form 1
SemiVolatile Organics

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Lab ID	: WG1101262-1	**Date Collected**	: NA
Client ID	: WG1101262-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/29/18 16:22
Sample Matrix	: SOIL	**Date Extracted**	: 03/28/18
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I6060	**Analyst**	: AJ
Sample Amount	: 2 g	**Instrument ID**	: LCMS01
Extraction Method	: EPA 537(M)	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: NA
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/g			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.00	0.090	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.00	0.086	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.00	0.062	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.00	0.070	U

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: P. W. Grosser
Project Name: SHD1801

Lab Number: L1808174
Project Number: SHD1801
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
CONCRETE (0-2") (L1808174-01)	40*	41*	42*	16*	32*	35*	8
CONCRETE (5-7") (L1808174-02)	46*	50	41*	26*	40*	41*	7
WG1101262-1BLANK	89	88	76	62	68	68	0
WG1101262-2LCS	87	85	68	56	68	69	0
WG1101262-3LCSD	89	87	71	55	70	71	0
CONCRETE (5-7")MS	50	53	44*	30*	43*	45*	6

QC LIMITS

(50-150) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(50-150) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(50-150) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(50-150) S4 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]HEXANESULFONIC ACID (M2-4:2FTS)
(50-150) S5 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(50-150) S6 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)

* Values outside of QC limits

FORM II A2-537-ISOTOPE

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Matrix	: SOIL		
LCS Sample ID	: WG1101262-2	**Analysis Date** : 03/29/18 16:38	**File ID** : I6061
LCSD Sample ID	: WG1101262-3	**Analysis Date** : 03/29/18 16:55	**File ID** : I6062

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/g)	Found (ng/g)	%R	True (ng/g)	Found (ng/g)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	5	5.23	104	5	5.58	112	7	50-150	30
Perfluoropentanoic Acid (PFPeA)	5	5.36	107	5	5.65	113	5	50-150	30
Perfluorobutanesulfonic Acid (PFBS)	5	5.31	106	5	5.69	114	7	50-150	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	5	5.34	107	5	5.83	116	8	50-150	30
Perfluorohexanoic Acid (PFHxA)	5	5.67	113	5	5.97	119	5	50-150	30
Perfluoropentanesulfonic Acid (PFPeS)	5	5.04	101	5	5.34	107	6	50-150	30
Perfluoroheptanoic Acid (PFHpA)	5	5.29	106	5	5.73	114	7	50-150	30
Perfluorohexanesulfonic Acid (PFHxS)	5	5.95	119	5	6.20	124	4	50-150	30
Perfluorooctanoic Acid (PFOA)	5	5.04	101	5	5.41	108	7	50-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	5	5.18	104	5	6.12	122	16	50-150	30
Perfluoroheptanesulfonic Acid (PFHpS)	5	5.37	107	5	5.36	107	0	50-150	30
Perfluorononanoic Acid (PFNA)	5	5.62	112	5	5.93	118	5	50-150	30
Perfluorooctanesulfonic Acid (PFOS)	5	5.11	102	5	5.04	101	1	50-150	30
Perfluorodecanoic Acid (PFDA)	5	5.28	106	5	5.98	120	12	50-150	30

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Matrix	: SOIL		
LCS Sample ID	: WG1101262-2	**Analysis Date** : 03/29/18 16:38	**File ID** : I6061
LCSD Sample ID	: WG1101262-3	**Analysis Date** : 03/29/18 16:55	**File ID** : I6062

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/g)	Found (ng/g)	%R	True (ng/g)	Found (ng/g)	%R	RPD	Recovery Limits	RPD Limit
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	5	6.75	135	5	6.42	128	5	50-150	30
Perfluorononanesulfonic Acid (PFNS)	5	5.27	105	5	5.57	111	6	50-150	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	5	4.73	94	5	5.07	101	7	50-150	30
Perfluoroundecanoic Acid (PFUnA)	5	5.06	101	5	5.36	107	6	50-150	30
Perfluorodecanesulfonic Acid (PFDS)	5	4.96	99	5	4.99	100	1	50-150	30
Perfluorooctanesulfonamide (FOSA)	5	5.24	105	5	5.65	113	7	50-150	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	5	6.40	128	5	3.59	72	56 Q	50-150	30
Perfluorododecanoic Acid (PFDoA)	5	5.16	103	5	5.38	108	5	50-150	30
Perfluorotridecanoic Acid (PFTrDA)	5	3.93	79	5	3.83	77	3	50-150	30
Perfluorotetradecanoic Acid (PFTA)	5	6.08	122	5	5.06	101	19	50-150	30

Matrix Spike
Form 3

Client	: P. W. Grosser	Lab Number	: L1808174
Project Name	: SHD1801	Project Number	: SHD1801
Client Sample ID	: CONCRETE (5-7")	Matrix	: SOIL
Lab Sample ID	: L1808174-02	Analysis Date	: 03/29/18 18:17
Matrix Spike	: WG1101262-5	MS Analysis Date	: 03/29/18 18:34
Matrix Spike Dup	:	MSD Analysis Date	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/g)	Spike Added (ng/g)	Spike Conc. (ng/g)	%R	Spike Added (ng/g)	Spike Conc. (ng/g)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	0.248J	5.25	5.78	110					50-150	30
Perfluoropentanoic Acid (PFPeA)	1.02	5.25	6.56	106					50-150	30
Perfluorobutanesulfonic Acid (PFBS)	0.238J	5.25	5.93	113					50-150	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.25	5.85	111					50-150	30
Perfluorohexanoic Acid (PFHxA)	6.49	5.25	11.4	94					50-150	30
Perfluoropentanesulfonic Acid (PFPeS)	0.662J	5.25	6.27	119					50-150	30
Perfluoroheptanoic Acid (PFHpA)	1.54	5.25	7.45	113					50-150	30
Perfluorohexanesulfonic Acid (PFHxS)	4.98	5.25	12.8	149					50-150	30
Perfluorooctanoic Acid (PFOA)	1.29	5.25	6.92	107					50-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	6.92	5.25	13.3	122					50-150	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.25	5.20	99					50-150	30
Perfluorononanoic Acid (PFNA)	0.592J	5.25	7.29	139					50-150	30
Perfluorooctanesulfonic Acid (PFOS)	0.816J	5.25	5.89	112					50-150	30
Perfluorodecanoic Acid (PFDA)	ND	5.25	5.72	109					50-150	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.25	7.89	150					50-150	30
Perfluorononanesulfonic Acid	ND	5.25	5.85	111					50-150	30

Matrix Spike
Form 3

Client	: P. W. Grosser	Lab Number	: L1808174
Project Name	: SHD1801	Project Number	: SHD1801
Client Sample ID	: CONCRETE (5-7")	Matrix	: SOIL
Lab Sample ID	: L1808174-02	Analysis Date	: 03/29/18 18:17
Matrix Spike	: WG1101262-5	MS Analysis Date	: 03/29/18 18:34
Matrix Spike Dup	:	MSD Analysis Date	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/g)	Spike Added (ng/g)	Spike Conc. (ng/g)	%R	Spike Added (ng/g)	Spike Conc. (ng/g)	%R	RPD	Recovery Limits	RPD Limit
(PFNS)										
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.25	5.86	112					50-150	30
Perfluoroundecanoic Acid (PFUnA)	ND	5.25	5.15	98					50-150	30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.25	5.29	101					50-150	30
Perfluorooctanesulfonamide (FOSA)	ND	5.25	5.29	101					50-150	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.25	4.73	90					50-150	30
Perfluorododecanoic Acid (PFDoA)	ND	5.25	5.45	104					50-150	30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.25	4.17	79					50-150	30
Perfluorotetradecanoic Acid (PFTA)	ND	5.25	6.68	127					50-150	30

Method Blank Summary
Form 4

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Lab Sample ID	: WG1101262-1	**Lab File ID**	: I6060
Instrument ID	: LCMS01	**Extraction Date**	: 03/28/18
Matrix	: SOIL	**Analysis Date**	: 03/29/18 16:22
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1101262-2LCS	WG1101262-2	03/29/18 16:38
WG1101262-3LCSD	WG1101262-3	03/29/18 16:55
CONCRETE (0-2")	L1808174-01	03/29/18 18:01
CONCRETE (5-7")	L1808174-02	03/29/18 18:17
CONCRETE (5-7")MS	WG1101262-5	03/29/18 18:34

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

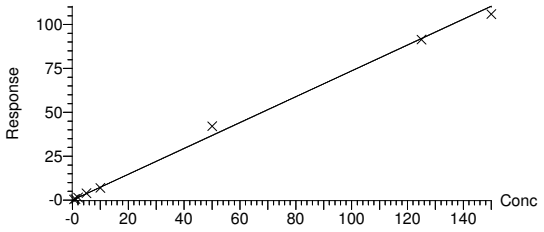
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Method: C:\MassLynx\Data\2018\180321_537ISO.PRO\MethDB\537ISO_Q.mdb 21 Mar 2018 12:05:07
Calibration: C:\MassLynx\Data\2018\180321_537ISO.PRO\CurveDB\180321_537ISO_ICAL.cdb 22 Mar 2018 09:24:25

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.268	60868.441	2197.378	0.490	98.1	0.722	153		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.262	57681.168	3942.712	0.929	92.9	0.684	369		0.43
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.268	55827.281	8219.394	2.000	100.0	0.736	557		0.43
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.262	55653.156	21967.232	5.362	107.2	0.789	785		0.48
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.268	55976.352	39191.367	9.512	95.1	0.700	3072		0.49
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.262	53737.766	225857.484	57.099	114.2	0.841	9033		0.41
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.262	53419.461	488510.438	124.237	99.4	0.732	19577		0.46
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.262	52955.629	560799.250	143.870	95.9	0.706	28617		0.48

Compound name: PFBA
Coefficient of Determination: R^2 = 0.995980
Calibration curve: 0.736078 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

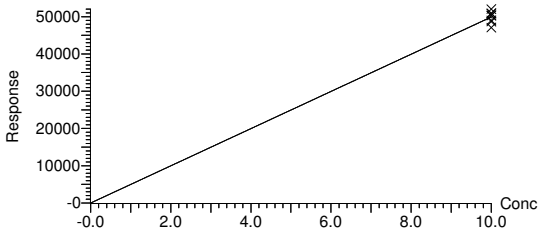
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.264		50946.270	10.208	102.1	5094.627	5746		0.55
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.259		52028.402	10.425	104.3	5202.840	11159		0.69
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.264		50370.258	10.093	100.9	5037.026	3355		0.61
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.264		49021.660	9.823	98.2	4902.166	7155		0.66
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.264		50312.719	10.081	100.8	5031.272	5212		0.60
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.259		47098.000	9.437	94.4	4709.800	5454		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.259		50780.102	10.175	101.8	5078.010	8659		0.59
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.259		48690.582	9.756	97.6	4869.058	3914		0.80

Compound name: M3PFBA
Response Factor: 4990.6
RRF SD: 155.269, % Relative SD: 3.11123
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

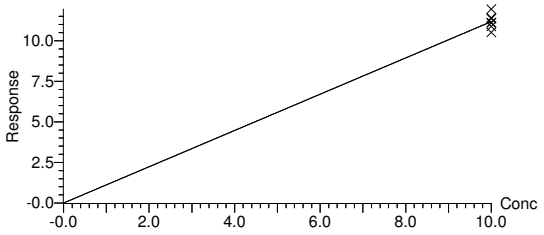
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	2.261	50946.270	60868.441	10.691	106.9	1.195	15241		1.18
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	2.261	52028.402	57681.168	9.921	99.2	1.109	6173		0.85
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	2.261	50370.258	55827.281	9.918	99.2	1.108	2706		1.03
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	2.261	49021.660	55653.156	10.159	101.6	1.135	9430		1.21
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	2.261	50312.719	55976.352	9.956	99.6	1.113	11010		0.69
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	2.261	47098.000	53737.766	10.210	102.1	1.141	11606		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	2.261	50780.102	53419.461	9.414	94.1	1.052	8948		1.21
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	2.255	48690.582	52955.629	9.732	97.3	1.088	11866		1.12

Compound name: MPFBA
Response Factor: 1.11752
RRF SD: 0.0417651, % Relative SD: 3.73731
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

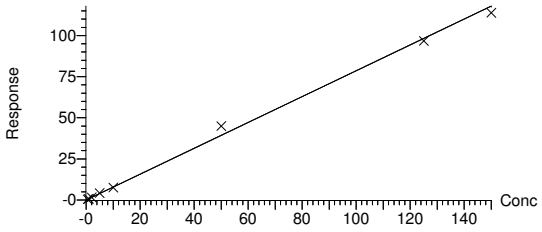
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	5.673	62807.227	2371.113	0.480	96.0	0.755	132		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	5.668	60794.992	4748.729	0.993	99.3	0.781	166		0.74
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	5.670	58121.734	9186.643	2.010	100.5	0.790	184		0.60
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	5.668	57553.336	24638.668	5.445	108.9	0.856	1750		0.57
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	5.664	58500.641	44280.383	9.627	96.3	0.757	2684		0.69
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	5.664	54996.031	247064.516	57.137	114.3	0.898	18311		0.67
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	5.662	54356.898	525874.625	123.046	98.4	0.774	22369		0.64
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	5.653	52807.184	601037.000	144.760	96.5	0.759	11218		0.73

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.996073
Calibration curve: 0.786246 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

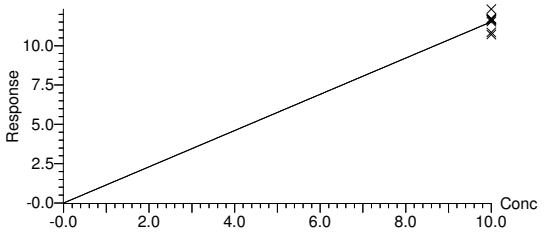
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	5.673	50946.270	62807.227	10.703	107.0	1.233	2190		0.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	5.669	52028.402	60794.992	10.145	101.4	1.168	3752		0.71
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	5.667	50370.258	58121.734	10.018	100.2	1.154	4351		0.65
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	5.665	49021.660	57553.336	10.193	101.9	1.174	6243		0.62
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	5.665	50312.719	58500.641	10.095	100.9	1.163	5961		0.68
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	5.665	47098.000	54996.031	10.138	101.4	1.168	2271		0.65
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	5.658	50780.102	54356.898	9.293	92.9	1.070	5852		0.66
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	5.650	48690.582	52807.184	9.416	94.2	1.085	6815		0.73

Compound name: M5PFPEA
Response Factor: 1.15183
RRF SD: 0.0519012, % Relative SD: 4.50597
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

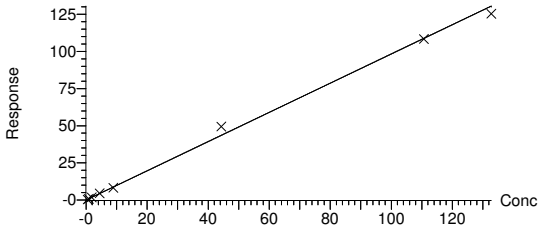
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	6.420	10840.279	416.896	0.391	88.4	0.869	33		0.56
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	6.407	10471.829	884.932	0.859	97.1	0.955	94		0.69
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	6.405	10031.390	1709.698	1.733	97.9	0.963	140		0.61
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	6.400	9940.611	4520.843	4.624	104.5	1.028	620		0.64
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	6.400	10015.363	8202.292	8.328	94.1	0.925	956		0.65
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	6.400	9632.964	47576.504	50.221	113.5	1.116	5656		0.67
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	6.395	9258.362	100423.344	110.295	99.7	0.980	7252		0.62
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	6.390	9147.198	114734.828	127.545	96.1	0.945	15994		0.71

Compound name: PFBS
Coefficient of Determination: R^2 = 0.996359
Calibration curve: 0.98343 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

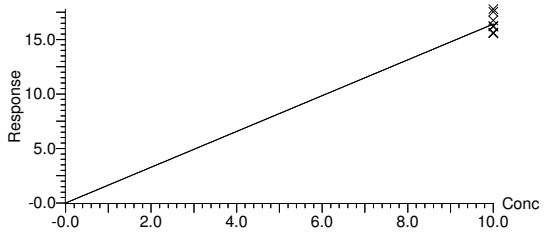
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	6.415	6470.397	10840.279	10.207	102.1	1.675	2392		0.58
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	6.407	6699.228	10471.829	9.524	95.2	1.563	1899		0.70
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	6.405	6432.927	10031.390	9.501	95.0	1.559	1240		0.63
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	6.400	6146.833	9940.611	9.853	98.5	1.617	771		0.60
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	6.398	6436.869	10015.363	9.480	94.8	1.556	1734		0.64
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	6.395	5415.272	9632.964	10.838	108.4	1.779	3069		0.70
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	6.395	5696.055	9258.362	9.903	99.0	1.625	434		0.61
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	6.387	5210.555	9147.198	10.696	107.0	1.756	399		0.70

Compound name: M3PFBS
Response Factor: 1.64135
RRF SD: 0.0878846, % Relative SD: 5.35442
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

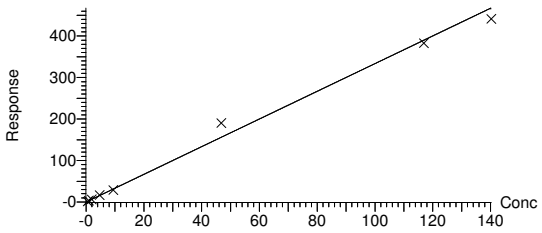
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.606	1427.403	184.111	0.387	82.7	2.759	5		0.82
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.601	1245.897	445.579	1.072	114.7	3.825	35		0.86
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.591	1255.025	772.307	1.845	98.7	3.291	39		0.99
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.579	1306.417	2185.058	5.015	107.3	3.578	307		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.583	1312.569	3831.256	8.752	93.6	3.122	77		0.94
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.583	1173.378	22300.717	56.989	121.9	4.065	3575		0.92
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.577	1252.860	47998.543	114.878	98.3	3.278	708		1.28
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.573	1247.422	55009.715	132.233	94.3	3.144	6128		1.95

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.990802
Calibration curve: 3.33493 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

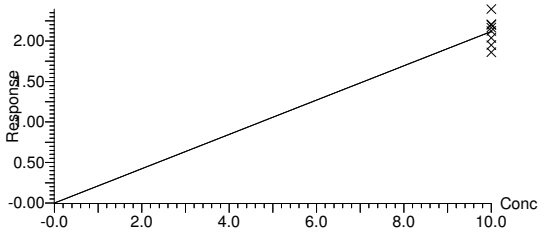
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.599	6470.397	1427.403	10.417	104.2	0.221	65		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.599	6699.228	1245.897	8.782	87.8	0.186	53		0.87
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.587	6432.927	1255.025	9.213	92.1	0.195	214		0.91
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.589	6146.833	1306.417	10.036	100.4	0.213	185		0.88
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.587	6436.869	1312.569	9.629	96.3	0.204	86		0.89
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.585	5415.272	1173.378	10.232	102.3	0.217	164		0.79
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.583	5696.055	1252.860	10.386	103.9	0.220	28		0.76
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.573	5210.555	1247.422	11.305	113.0	0.239	55		0.73

Compound name: M2-4:2FTS
Response Factor: 0.21177
RRF SD: 0.0166407, % Relative SD: 7.85793
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

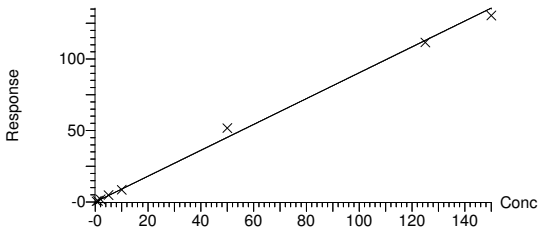
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.680	65093.461	3003.808	0.510	102.1	0.923	120		0.82
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.672	64638.195	5924.188	1.014	101.4	0.917	91		0.91
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.662	61458.980	11520.529	2.074	103.7	0.937	448		0.98
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.659	59982.352	29627.682	5.464	109.3	0.988	1280		0.93
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.657	61247.379	52097.707	9.410	94.1	0.851	195		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.657	56178.926	290765.844	57.255	114.5	1.035	10302		0.99
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.653	55001.734	614264.125	123.544	98.8	0.893	14893		1.00
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.647	53187.797	693457.938	144.229	96.2	0.869	18943		1.06

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.995806
Calibration curve: 0.903974 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

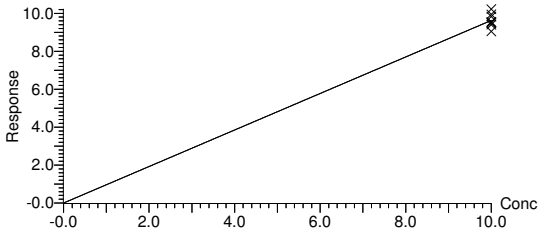
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	7.676	63674.309	65093.461	10.621	106.2	1.022	3050		0.94
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.670	65765.875	64638.195	10.211	102.1	0.983	4731		1.02
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.661	64792.219	61458.980	9.855	98.5	0.949	4045		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.657	60313.320	59982.352	10.332	103.3	0.995	4209		1.02
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.657	64321.379	61247.379	9.893	98.9	0.952	480		0.97
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.655	58821.836	56178.926	9.923	99.2	0.955	3318		0.98
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.651	60789.090	55001.734	9.400	94.0	0.905	578		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.645	56591.422	53187.797	9.765	97.6	0.940	3194		1.05

Compound name: M5PFHxA
Response Factor: 0.962517
RRF SD: 0.0362761, % Relative SD: 3.76888
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

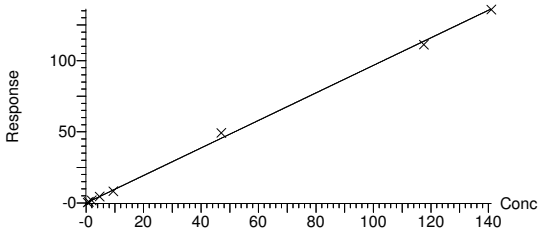
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.019	10749.135	352.847	0.340	72.3	0.698	21		0.70
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	7.999	9889.984	774.932	0.811	86.2	0.834	65		1.03
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	7.993	9328.913	1742.268	1.932	102.8	0.993	112		0.96
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	7.991	9331.232	4258.491	4.722	100.5	0.971	499		1.04
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	7.988	9514.957	7850.656	8.537	90.8	0.878	316		1.09
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	7.985	8811.972	43393.000	50.948	108.4	1.048	3787		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	7.980	8008.927	89054.805	115.044	97.9	0.946	4149		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	7.975	7615.321	103456.477	140.557	99.7	0.963	6501		1.08

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.998321
Calibration curve: 0.966536 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

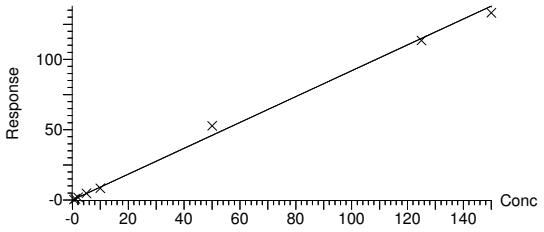
Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.965	74122.258	3067.328	0.450	90.0	0.828	177		1.27
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.955	72324.695	6035.983	0.908	90.8	0.835	325		0.98
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.950	68484.641	12765.934	2.028	101.4	0.932	562		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.940	69974.242	34014.195	5.288	105.8	0.972	1581		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.940	70402.258	58755.344	9.078	90.8	0.835	2534		0.97
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.940	63319.195	333951.750	57.369	114.7	1.055	11765		1.04
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.935	61908.684	702832.250	123.490	98.8	0.908	22166		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.930	60853.926	810574.563	144.889	96.6	0.888	29044		1.02

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.995759
Calibration curve: 0.919323 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

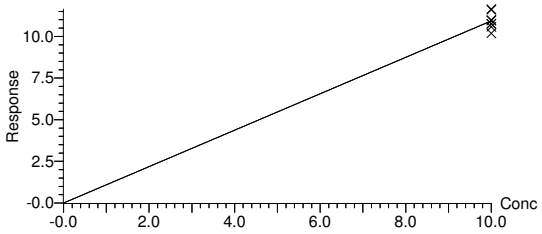
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.960	63674.309	74122.258	10.648	106.5	1.164	3396		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.955	65765.875	72324.695	10.060	100.6	1.100	3558		0.99
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.945	64792.219	68484.641	9.669	96.7	1.057	3624		1.07
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.945	60313.320	69974.242	10.613	106.1	1.160	3726		0.99
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.940	64321.379	70402.258	10.012	100.1	1.095	4054		0.98
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.940	58821.836	63319.195	9.847	98.5	1.076	2783		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.935	60789.090	61908.684	9.316	93.2	1.018	3689		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.930	56591.422	60853.926	9.836	98.4	1.075	2482		1.04

Compound name: M4PFHpA
Response Factor: 1.09321
RRF SD: 0.0493657, % Relative SD: 4.51565
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

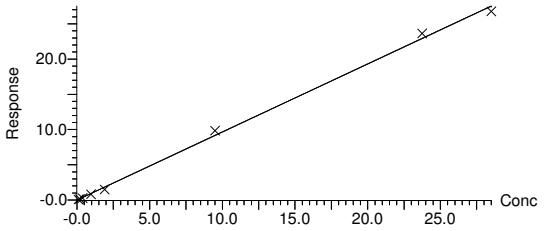
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.817	10749.135	66.189	0.064	67.1	0.648	3		2.54
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.885	9889.984	128.106	0.134	70.6	0.682	6		0.62
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.874	9328.913	260.569	0.289	76.1	0.735	15		1.04
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.874	9331.232	754.238	0.837	88.1	0.851	10		0.79
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.869	9514.957	1431.516	1.558	82.0	0.792	73		0.78
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.869	8811.972	8673.705	10.195	107.3	1.036	219		0.95
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.869	8008.927	18924.422	24.474	103.0	0.995	817		0.88
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.859	7615.321	20375.871	27.713	97.2	0.939	340		0.75

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.996549
Calibration curve: 0.965477 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
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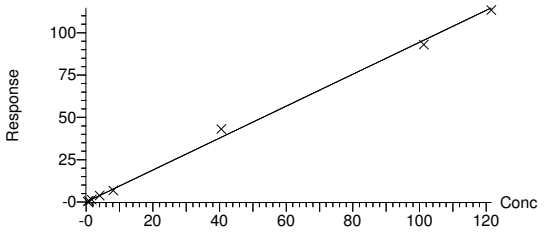
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.123	10749.135	337.282	0.332	82.1	0.775	22		1.13
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.118	9889.984	763.544	0.818	101.0	0.953	59		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.107	9328.913	1289.308	1.464	90.4	0.853	130		1.24
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.107	9331.232	3529.009	4.007	98.9	0.934	86		1.15
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.102	9514.957	6480.811	7.216	89.1	0.841	551		1.09
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.102	8811.972	38003.703	45.692	112.8	1.065	1567		1.49
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.097	8008.927	74462.211	98.502	97.3	0.918	5188		1.43
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.092	7615.321	86401.727	120.204	98.9	0.934	2338		1.41

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.996703
Calibration curve: 0.943879 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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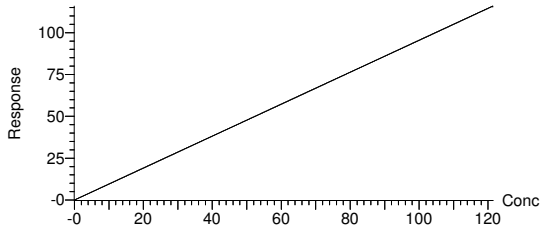
Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		10749.135	403.471	0.396					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		9889.984	891.650	0.952					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		9328.913	1549.877	1.754					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		9331.232	4283.247	4.844					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		9514.957	7912.327	8.774					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		8811.972	46677.408	55.887					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		8008.927	93386.633	122.976					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		7615.321	106777.598	147.917					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 0.954678 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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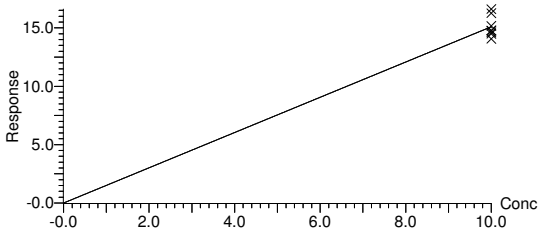
Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.128	6470.397	10749.135	11.003	110.0	1.661	899		1.11
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.118	6699.228	9889.984	9.778	97.8	1.476	1064		1.25
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.113	6432.927	9328.913	9.605	96.0	1.450	590		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.108	6146.833	9331.232	10.054	100.5	1.518	838		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.102	6436.869	9514.957	9.790	97.9	1.478	1136		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.102	5415.272	8811.972	10.778	107.8	1.627	978		1.19
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.097	5696.055	8008.927	9.312	93.1	1.406	531		1.08
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.092	5210.555	7615.321	9.680	96.8	1.462	937		1.09

Compound name: M3PFHxS
Response Factor: 1.50985
RRF SD: 0.089106, % Relative SD: 5.90164
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

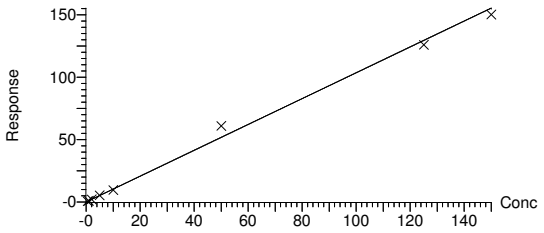
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		65050.063							
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		63357.285							
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		61715.293							
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		62119.594							
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		62540.145							
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		57407.289							
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		54629.637							
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		54074.738							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.994168
Calibration curve: 1.03652 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
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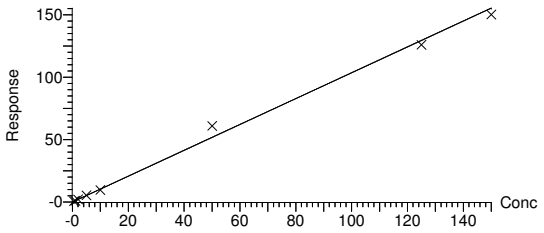
Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.897	65050.063	3385.730	0.502	100.4	1.041	170		0.78
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.886	63357.285	6592.017	1.004	100.4	1.040	293		1.20
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881	61715.293	13236.338	2.069	103.5	1.072	683		0.79
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.875	62119.594	33332.746	5.177	103.5	1.073	1159		0.89
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870	62540.145	60677.980	9.360	93.6	0.970	2456		1.30
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870	57407.289	350681.094	58.934	117.9	1.222	16149		2.11
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865	54629.637	688052.938	121.511	97.2	1.008	18743		2.41
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859	54074.738	812399.688	144.943	96.6	1.002	15923		2.40

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.994168
Calibration curve: 1.03652 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

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Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
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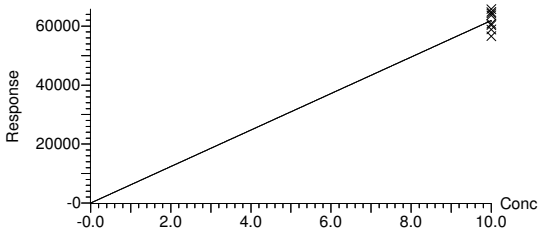
Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.897		63674.309	10.289	102.9	6367.431	3551		1.68
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.887		65765.875	10.627	106.3	6576.587	4371		1.82
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881		64792.219	10.470	104.7	6479.222	2980		1.34
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.876		60313.320	9.746	97.5	6031.332	3708		1.47
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870		64321.379	10.394	103.9	6432.138	3816		2.38
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870		58821.836	9.505	95.1	5882.184	2850		1.48
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865		60789.090	9.823	98.2	6078.909	4195		1.32
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859		56591.422	9.145	91.4	5659.142	3480		2.45

Compound name: M2PFOA
Coefficient of Determination: R^2 = 0.000000
Calibration curve: 6188.37 * x
Response type: External Std, Area
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

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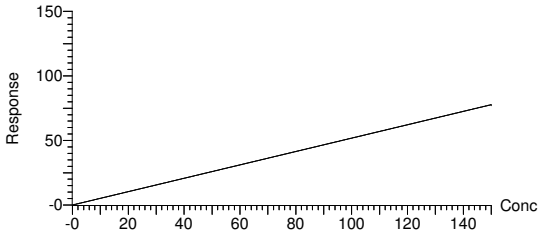
Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		65050.063	3385.730	0.502					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		63357.285	6592.017	1.004					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		61715.293	13236.338	2.069					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		62119.594	33332.746	5.177					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		62540.145	60677.980	9.360					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		57407.289	350681.094	58.934					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		54629.637	688052.938	121.511					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		54074.738	812399.688	144.943					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.518261 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
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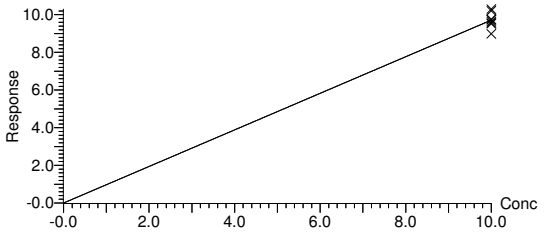
Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.898	63674.309	65050.063	10.519	105.2	1.022	3685		1.07
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.887	65765.875	63357.285	9.919	99.2	0.963	1644		1.02
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.881	64792.219	61715.293	9.807	98.1	0.953	2890		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.876	60313.320	62119.594	10.604	106.0	1.030	4706		1.07
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.870	64321.379	62540.145	10.011	100.1	0.972	3007		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.870	58821.836	57407.289	10.049	100.5	0.976	2544		1.06
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.865	60789.090	54629.637	9.253	92.5	0.899	2497		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.859	56591.422	54074.738	9.838	98.4	0.956	3047		1.09

Compound name: M8PFOA
Response Factor: 0.971238
RRF SD: 0.0412862, % Relative SD: 4.25089
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

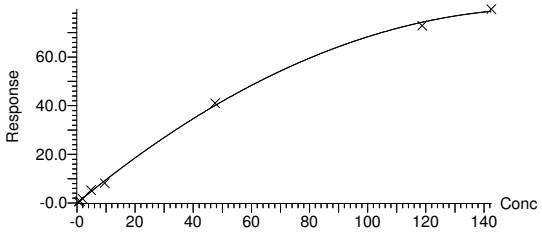
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.860	4226.249	190.334	0.456	96.0	0.948	2		0.81
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.849	4399.333	347.555	0.800	84.3	0.832	21		0.96
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.843	4295.251	758.968	1.796	94.5	0.930	128		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.838	4019.489	2154.986	5.513	116.1	1.129	377		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.833	4345.167	3562.035	8.510	89.6	0.863	288		0.96
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.833	4940.203	20292.779	48.925	103.0	0.865	842		0.99
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.827	5712.235	41637.551	113.643	95.7	0.614	3115		1.02
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.822	6110.131	48698.254	153.091	107.4	0.559	2618		1.11

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.997878
Calibration curve: -0.00306225 * x^2 + 0.989414 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

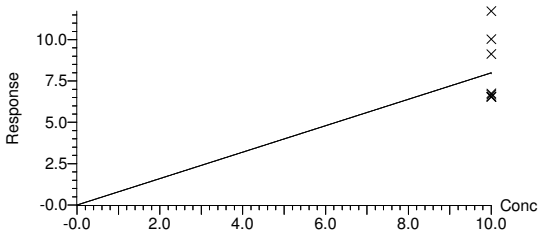
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.860	6470.397	4226.249	8.172	81.7	0.653	743		0.97
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.849	6699.228	4399.333	8.216	82.2	0.657	325		1.08
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.844	6432.927	4295.251	8.354	83.5	0.668	453		1.12
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.833	6146.833	4019.489	8.181	81.8	0.654	137		1.09
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.833	6436.869	4345.167	8.446	84.5	0.675	1235		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.833	5415.272	4940.203	11.414	114.1	0.912	669		1.15
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.827	5696.055	5712.235	12.547	125.5	1.003	433		1.11
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.822	5210.555	6110.131	14.671	146.7	1.173	337		1.09

Compound name: M2-6:2FTS
Response Factor: 0.799284
RRF SD: 0.203247, % Relative SD: 25.4287
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

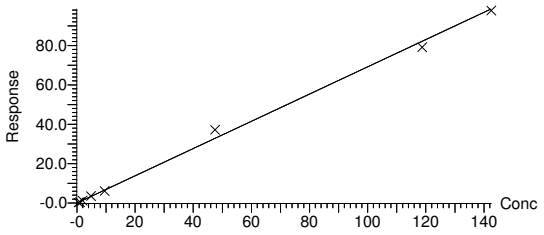
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.991	8469.573	218.693	0.373	78.6	0.544	4463		1.39
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.980	8142.674	440.078	0.781	82.2	0.569	7		1.34
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.974	7798.730	953.915	1.768	93.0	0.644	133		1.38
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.963	7441.749	2633.019	5.114	107.7	0.745	67		1.31
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.958	7586.068	4604.563	8.773	92.3	0.639	472		1.37
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.958	7113.925	26450.846	53.741	113.1	0.783	1665		1.36
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.958	6548.564	51834.285	114.404	96.3	0.667	610		1.37
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.952	6141.485	60070.633	141.371	99.2	0.686	6201		1.47

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.996383
Calibration curve: 0.691876 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

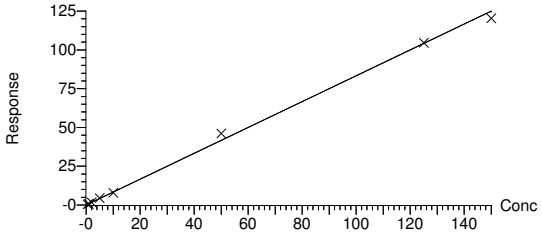
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	62830.832	2672.702	0.510	102.1	0.851	112		1.20
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	61490.102	4950.234	0.966	96.6	0.805	228		1.06
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.611	56641.598	9810.617	2.078	103.9	0.866	407		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	60592.512	27290.605	5.404	108.1	0.901	1175		1.04
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	57736.875	45115.285	9.376	93.8	0.781	1629		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	55687.594	256513.125	55.270	110.5	0.921	8310		1.03
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.5...	49752.020	520601.719	125.555	100.4	0.837	20437		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.5...	47452.582	570830.063	144.340	96.2	0.802	27571		1.05

Compound name: PFNA
Coefficient of Determination: R^2 = 0.997409
Calibration curve: 0.833413 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

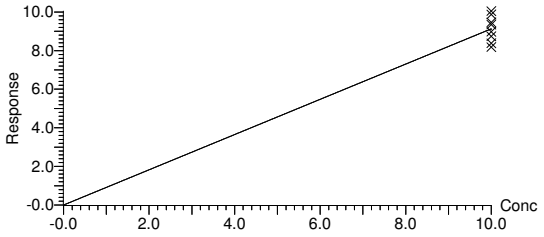
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	63674.309	62830.832	10.811	108.1	0.987	4505		1.04
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	65765.875	61490.102	10.244	102.4	0.935	3896		1.06
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.611	64792.219	56641.598	9.578	95.8	0.874	5224		1.11
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	60313.320	60592.512	11.007	110.1	1.005	4739		1.07
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	64321.379	57736.875	9.835	98.3	0.898	4349		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	58821.836	55687.594	10.372	103.7	0.947	4363		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.5...	60789.090	49752.020	8.967	89.7	0.818	3780		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.5...	56591.422	47452.582	9.187	91.9	0.839	3477		1.16

Compound name: M9PFNA
Response Factor: 0.912733
RRF SD: 0.0672809, % Relative SD: 7.37136
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

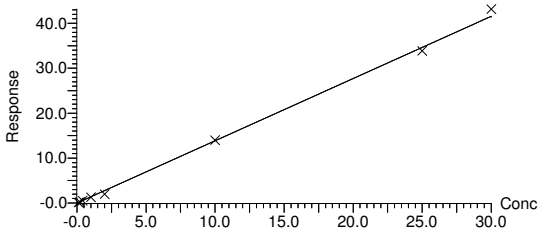
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.4...	8469.573	87.957	0.075	75.0	1.039	1363		0.62
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.4...	8142.674	193.291	0.171	85.7	1.187	10		0.65
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.4...	7798.730	427.311	0.396	98.9	1.370	47		0.68
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.4...	7441.749	952.465	0.924	92.4	1.280	49		0.70
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.4...	7586.068	1489.643	1.417	70.9	0.982	56		0.67
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.4...	7113.925	9966.363	10.113	101.1	1.401	602		0.68
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.4...	6548.564	22181.762	24.450	97.8	1.355	578		0.68
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.4...	6141.485	26506.963	31.154	103.8	1.439	727		0.68

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.996319
Calibration curve: 1.38538 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

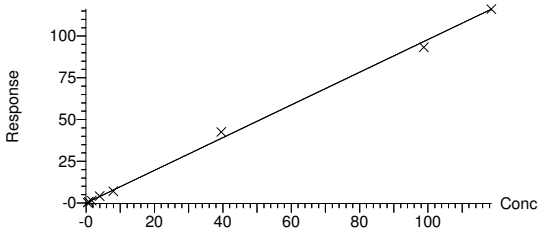
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	8469.573	301.930	0.364	92.2	0.903	5988		1.11
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	8142.674	530.974	0.666	84.3	0.825	44		0.85
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...	7798.730	1130.053	1.480	93.7	0.917	214		1.39
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	7441.749	3067.712	4.210	106.6	1.044	300		1.41
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	7586.068	5396.824	7.265	92.0	0.901	393		1.45
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	7113.925	30263.258	43.446	110.0	1.077	3672		1.54
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...	6548.564	61120.172	95.319	96.5	0.945	3139		1.37
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...	6141.485	71329.086	118.614	100.1	0.980	3691		1.47

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.997651
Calibration curve: 0.979167 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

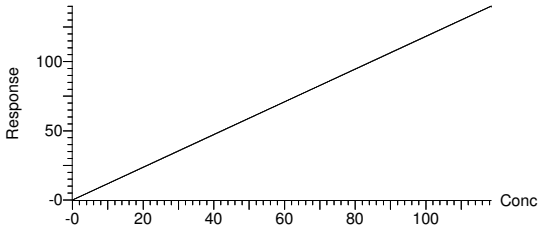
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14		8469.573	389.887	0.439					
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46		8142.674	724.265	0.837					
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16		7798.730	1557.364	1.875					
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51		7441.749	4020.177	5.134					
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29		7586.068	6886.467	8.683					
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03		7113.925	40229.621	53.558					
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08		6548.564	83301.934	119.770					
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41		6141.485	97836.049	149.768					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.18227 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

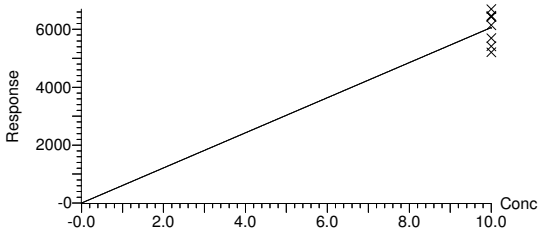
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...		6470.397	10.671	106.7	647.040	567		1.15
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...		6699.228	11.048	110.5	669.923	1270		1.04
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...		6432.927	10.609	106.1	643.293	187		1.00
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...		6146.833	10.137	101.4	614.683	700		1.03
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...		6436.869	10.616	106.2	643.687	1143		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...		5415.272	8.931	89.3	541.527	637		0.95
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...		5696.055	9.394	93.9	569.606	715		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...		5210.555	8.593	85.9	521.056	656		0.98

Compound name: M4PFOS
Response Factor: 606.352
RRF SD: 55.2303, % Relative SD: 9.10863
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

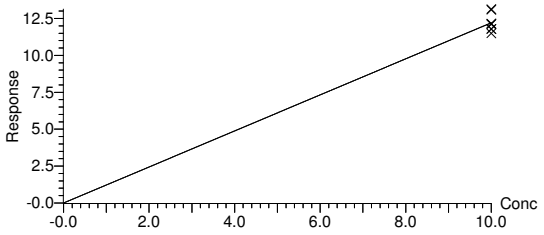
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	10.6...	6470.397	8469.573	10.721	107.2	1.309	710		1.15
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	10.6...	6699.228	8142.674	9.955	99.5	1.215	716		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	10.6...	6432.927	7798.730	9.929	99.3	1.212	375		1.18
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	10.6...	6146.833	7441.749	9.915	99.2	1.211	182		1.11
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	10.6...	6436.869	7586.068	9.652	96.5	1.179	801		1.06
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	10.6...	5415.272	7113.925	10.759	107.6	1.314	543		1.11
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	10.6...	5696.055	6548.564	9.416	94.2	1.150	325		1.08
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	10.6...	5210.555	6141.485	9.653	96.5	1.179	637		1.14

Compound name: M8PFOS
Response Factor: 1.22099
RRF SD: 0.0600306, % Relative SD: 4.91653
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

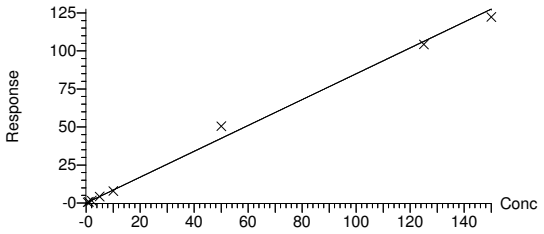
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249	56771.715	2546.143	0.528	105.5	0.897	159		1.47
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249	55180.480	4492.288	0.958	95.8	0.814	353		1.16
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.231	56501.883	9274.834	1.931	96.5	0.821	631		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227	55189.074	23581.932	5.026	100.5	0.855	1472		1.18
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.222	56109.461	44004.688	9.225	92.2	0.784	2572		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.222	44989.004	227167.406	59.394	118.8	1.010	10481		1.10
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.218	42673.848	444848.875	122.618	98.1	0.834	17827		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214	39021.895	477119.750	143.821	95.9	0.815	14411		1.20

Compound name: PFDA
Coefficient of Determination: R^2 = 0.993520
Calibration curve: 0.850152 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

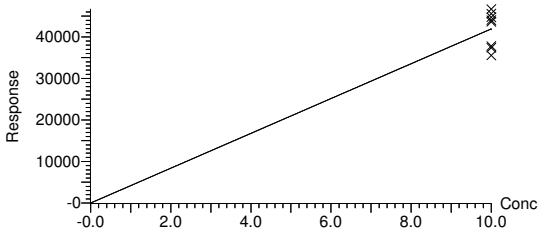
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249		44036.066	10.504	105.0	4403.607	8233		1.09
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249		46688.883	11.136	111.4	4668.888	9955		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.232		44732.898	10.670	106.7	4473.290	11684		1.20
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227		43618.020	10.404	104.0	4361.802	3691		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.219		45580.199	10.872	108.7	4558.020	11937		1.11
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.223		37397.438	8.920	89.2	3739.744	6826		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.219		37806.633	9.018	90.2	3780.663	10465		1.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214		35539.059	8.477	84.8	3553.906	8582		1.17

Compound name: M2PFDA
Response Factor: 4192.49
RRF SD: 430.12, % Relative SD: 10.2593
Response type: External Std, Area
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

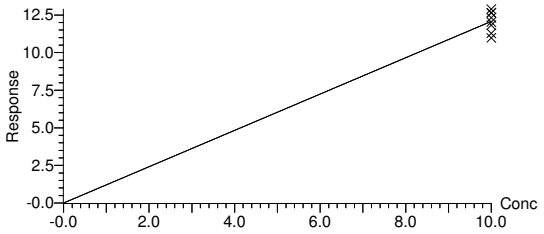
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.249	44036.066	56771.715	10.676	106.8	1.289	3292		1.10
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.249	46688.883	55180.480	9.788	97.9	1.182	4397		1.15
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.232	44732.898	56501.883	10.460	104.6	1.263	3101		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.227	43618.020	55189.074	10.478	104.8	1.265	3482		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.219	45580.199	56109.461	10.194	101.9	1.231	1075		1.13
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.223	37397.438	44989.004	9.962	99.6	1.203	2245		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.219	37806.633	42673.848	9.348	93.5	1.129	4528		1.00
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.214	35539.059	39021.895	9.093	90.9	1.098	2736		1.19

Compound name: M6PFDA
Response Factor: 1.20753
RRF SD: 0.0681685, % Relative SD: 5.64531
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

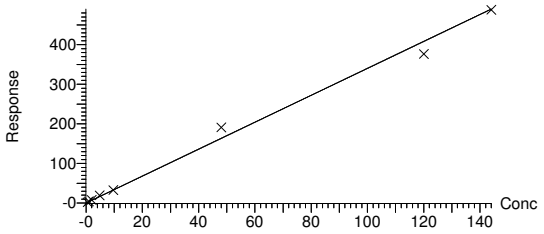
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.241	891.453	154.382	0.509	106.0	3.608	6		0.71
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.245	782.419	313.965	1.179	122.9	4.180	16		1.48
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.223	826.894	636.316	2.262	117.8	4.008	13984		1.09
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.219	817.101	1609.812	5.790	120.6	4.104	117		1.26
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.210	840.633	2772.331	9.693	101.0	3.435	707		1.03
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.215	684.133	13078.383	56.186	117.1	3.983	697		1.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.210	620.795	23368.740	110.637	92.2	3.137	1055		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.206	549.087	26809.439	143.503	99.7	3.391	1454		1.28

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.992183
Calibration curve: 3.4024 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

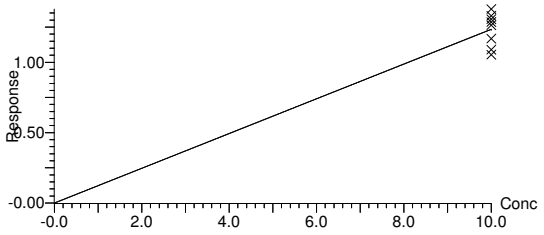
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.241	6470.397	891.453	11.163	111.6	0.138	743		1.08
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.241	6699.228	782.419	9.463	94.6	0.117	272		1.05
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.224	6432.927	826.894	10.415	104.2	0.129	83		1.32
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.219	6146.833	817.101	10.771	107.7	0.133	502		1.19
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.215	6436.869	840.633	10.582	105.8	0.131	139		1.14
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.215	5415.272	684.133	10.236	102.4	0.126	234		1.22
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.211	5696.055	620.795	8.831	88.3	0.109	273		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.211	5210.555	549.087	8.539	85.4	0.105	276		1.07

Compound name: M2-8:2FTS
Response Factor: 0.123417
RRF SD: 0.0117132, % Relative SD: 9.49078
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

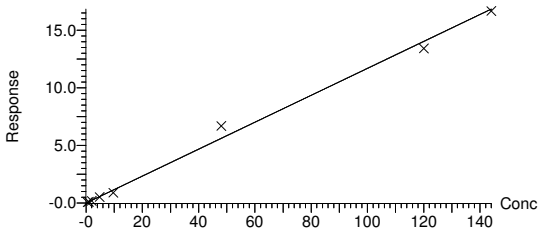
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.276	56771.715	364.729	0.549	114.4	0.134	71		1.22
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.276	55180.480	541.407	0.839	87.4	0.102	14148		1.26
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.263	56501.883	1094.871	1.657	86.3	0.101	330		1.10
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.259	55189.074	2903.467	4.498	93.7	0.110	210		0.95
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.250	56109.461	4994.088	7.610	79.3	0.093	734		1.25
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.250	44989.004	30146.711	57.291	119.4	0.140	1743		1.27
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.246	42673.848	57265.637	114.733	95.6	0.112	3518		1.25
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.246	39021.895	65075.695	142.583	99.0	0.116	5173		1.17

Compound name: PFNS
Coefficient of Determination: R^2 = 0.992004
Calibration curve: 0.116962 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

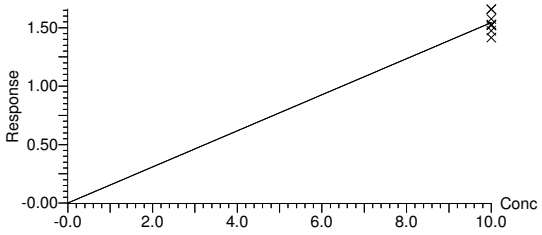
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.585	44036.066	7299.075	10.736	107.4	0.166	597		1.32
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.585	46688.883	6881.545	9.547	95.5	0.147	169		1.39
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.572	44732.898	6839.522	9.903	99.0	0.153	418		1.25
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.568	43618.020	6173.942	9.168	91.7	0.142	317		1.28
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.559	45580.199	6940.374	9.862	98.6	0.152	740		1.13
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.559	37397.438	6206.240	10.749	107.5	0.166	387		1.17
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.555	37806.633	5952.116	10.197	102.0	0.157	127		1.15
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.551	35539.059	5397.969	9.838	98.4	0.152	518		1.31

Compound name: d3-NMeFOSAA
Response Factor: 0.154391
RRF SD: 0.00844345, % Relative SD: 5.46886
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

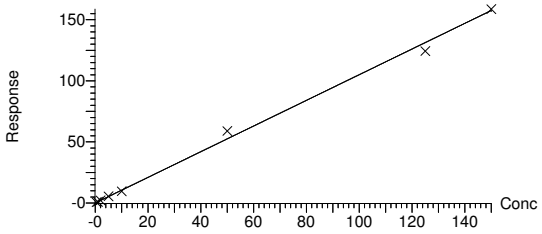
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.584	7299.075	466.771	0.609	121.7	1.279	44		1.80
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.593	6881.545	662.969	0.917	91.7	0.963	4		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.576	6839.522	1474.099	2.052	102.6	1.078	33		1.34
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.572	6173.942	3375.952	5.205	104.1	1.094	372		1.06
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.563	6940.374	6668.396	9.146	91.5	0.961	619		1.12
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.563	6206.240	36546.723	56.056	112.1	1.178	2790		1.19
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.559	5952.116	74042.711	118.416	94.7	0.995	2442		1.16
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.559	5397.969	85682.727	151.099	100.7	1.058	6476		1.23

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.996328
Calibration curve: 1.05051 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

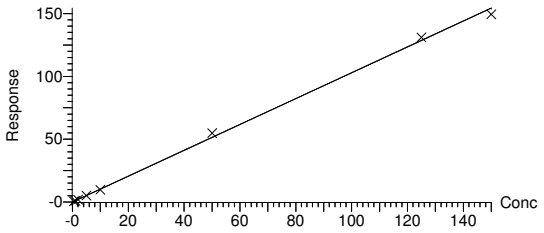
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.787	48907.301	2527.843	0.502	100.4	1.034	164		1.28
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.791	50206.656	4506.123	0.872	87.2	0.898	246		0.98
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.774	45181.898	9012.173	1.938	96.9	0.997	672		1.13
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.770	44334.605	22655.643	4.965	99.3	1.022	1453		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.766	43454.941	42080.266	9.408	94.1	0.968	2507		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.766	39962.434	219020.844	53.248	106.5	1.096	13266		1.16
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.757	31637.904	414572.750	127.311	101.8	1.048	14083		1.38
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.757	29592.242	442423.969	145.256	96.8	0.997	24963		1.22

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.998605
Calibration curve: 1.02927 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

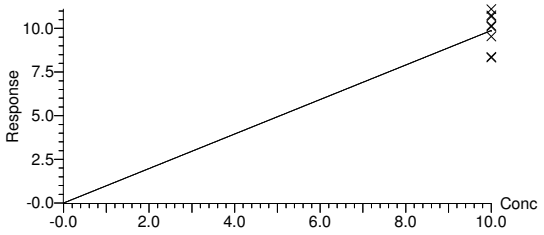
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.787	44036.066	48907.301	11.241	112.4	1.111	2097		1.12
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.792	46688.883	50206.656	10.884	108.8	1.075	3085		1.14
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.775	44732.898	45181.898	10.223	102.2	1.010	3979		1.16
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.770	43618.020	44334.605	10.288	102.9	1.016	3776		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.762	45580.199	43454.941	9.650	96.5	0.953	2608		1.17
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.762	37397.438	39962.434	10.816	108.2	1.069	1686		1.23
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.757	37806.633	31637.904	8.470	84.7	0.837	3755		1.30
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.753	35539.059	29592.242	8.428	84.3	0.833	1573		1.30

Compound name: M7-PFUDA
Response Factor: 0.987987
RRF SD: 0.105986, % Relative SD: 10.7274
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

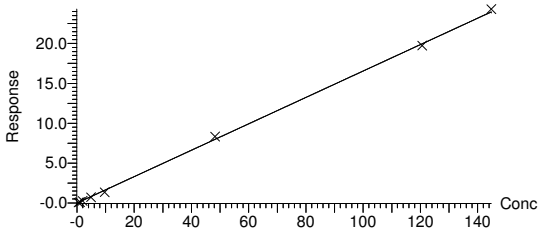
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.801	48907.301	254.943	0.315	65.3	0.108	4		0.80
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.805	50206.656	596.395	0.718	74.4	0.123	224		1.09
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.792	45181.898	1236.325	1.653	85.7	0.142	201		1.33
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.784	44334.605	3157.013	4.302	89.2	0.148	366		1.12
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.775	43454.941	5861.428	8.149	84.4	0.140	148203		1.30
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.779	39962.434	33258.816	50.278	104.2	0.172	1417		1.16
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.775	31637.904	62413.945	119.178	98.8	0.164	4243		1.15
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.771	29592.242	71951.047	146.886	101.5	0.168	4135		1.20

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998167
Calibration curve: 0.165531 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

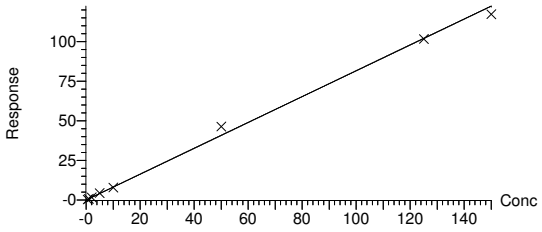
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.712	24229.271	885.323	0.447	89.5	0.731	143		0.89
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.712	23881.275	1917.292	0.983	98.3	0.803	402		1.38
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.699	22809.080	3632.652	1.950	97.5	0.796	299		1.15
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.691	22146.723	9757.254	5.395	107.9	0.881	881		1.29
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.687	22297.041	17604.451	9.669	96.7	0.790	1550		1.15
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.687	21477.146	99639.664	56.814	113.6	0.928	2967		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.682	20500.701	208444.453	124.515	99.6	0.813	7111		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.682	20512.424	240742.797	143.726	95.8	0.782	13356		1.16

Compound name: FOSA
Coefficient of Determination: R^2 = 0.996214
Calibration curve: 0.816584 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

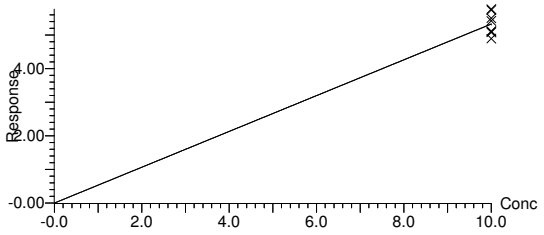
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.708	44036.066	24229.271	10.327	103.3	0.550	2226		1.17
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.713	46688.883	23881.275	9.601	96.0	0.511	1684		1.13
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.700	44732.898	22809.080	9.570	95.7	0.510	958		1.08
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.691	43618.020	22146.723	9.530	95.3	0.508	1906		1.19
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.683	45580.199	22297.041	9.182	91.8	0.489	1530		1.16
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.687	37397.438	21477.146	10.779	107.8	0.574	1752		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.683	37806.633	20500.701	10.178	101.8	0.542	1725		1.18
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.679	35539.059	20512.424	10.833	108.3	0.577	1573		1.23

Compound name: M8FOSA
Response Factor: 0.532782
RRF SD: 0.0329344, % Relative SD: 6.18158
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

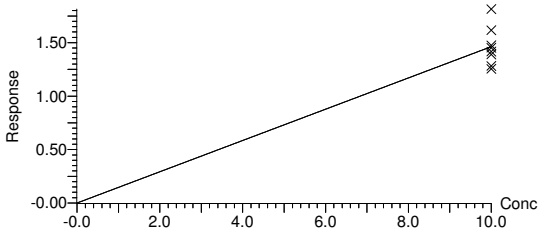
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.869	44036.066	7989.084	12.402	124.0	0.181	183		1.24
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.873	46688.883	6493.615	9.508	95.1	0.139	23		1.07
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.856	44732.898	6600.929	10.088	100.9	0.148	87		1.22
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.852	43618.020	5477.405	8.585	85.8	0.126	135		1.02
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.843	45580.199	6619.729	9.929	99.3	0.145	262		1.39
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.843	37397.438	6044.235	11.049	110.5	0.162	163		1.08
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.839	37806.633	4843.223	8.758	87.6	0.128	108521		1.09
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.839	35539.059	5033.181	9.682	96.8	0.142	18		1.30

Compound name: d5-NEtFOSAA
Response Factor: 0.146278
RRF SD: 0.018148, % Relative SD: 12.4065
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

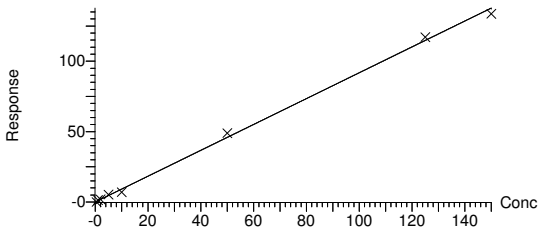
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	11.954	7989.084	28.590	0.039	7.8	0.072	1		0.76
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	11.877	6493.615	899.321	1.509	150.9	1.385	5		1.15
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	11.856	6600.929	1247.902	2.059	103.0	0.945	25		2.20
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	11.860	5477.405	2937.385	5.841	116.8	1.073	83		0.77
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	11.852	6619.729	4682.063	7.704	77.0	0.707	23		1.49
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	11.852	6044.235	29614.248	53.369	106.7	0.980	184		1.18
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	11.847	4843.223	56694.883	127.507	102.0	0.936	629		1.17
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	11.847	5033.181	67219.523	145.472	97.0	0.890	1389		1.14

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.994645
Calibration curve: 0.918066 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

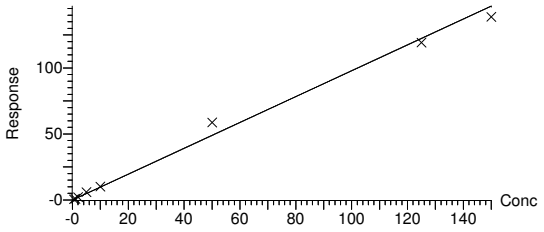
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.2...	46716.719	2241.659	0.490	98.0	0.960	120		0.99
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.2...	47641.645	4539.669	0.973	97.3	0.953	250		1.12
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.2...	44508.043	9371.134	2.151	107.5	1.053	526		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.2...	43215.250	25645.684	6.062	121.2	1.187	1365		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.2...	44359.781	45493.695	10.476	104.8	1.026	2520		1.17
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.2...	40351.695	236715.672	59.923	119.8	1.173	11863		1.05
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.2...	38038.711	453770.406	121.853	97.5	0.954	13811		2.70
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.2...	37425.887	518709.813	141.572	94.4	0.924	19114		0.94

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.991514
Calibration curve: 0.97898 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

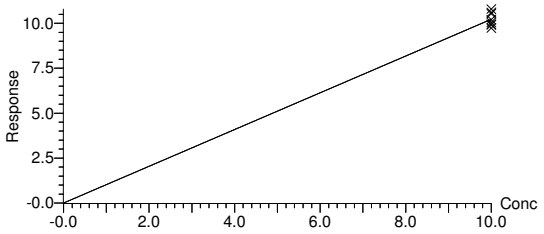
Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.2...	44036.066	46716.719	10.377	103.8	1.061	1895		0.99
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.2...	46688.883	47641.645	9.981	99.8	1.020	4804		1.19
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.2...	44732.898	44508.043	9.733	97.3	0.995	2645		1.14
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.2...	43618.020	43215.250	9.691	96.9	0.991	4025		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.2...	45580.199	44359.781	9.520	95.2	0.973	3313		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.2...	37397.438	40351.695	10.555	105.5	1.079	3170		1.14
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.2...	37806.633	38038.711	9.842	98.4	1.006	2262		1.22
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.2...	35539.059	37425.887	10.301	103.0	1.053	2081		1.05

Compound name: MPFDOA
Response Factor: 1.02231
RRF SD: 0.0379188, % Relative SD: 3.70913
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

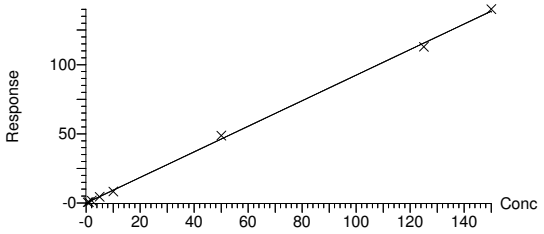
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.5...	46716.719	2069.416	0.479	95.8	0.886	69265		1.01
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.5...	47641.645	3567.349	0.810	81.0	0.749	33		1.27
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.5...	44508.043	7579.005	1.842	92.1	0.851	248031		1.32
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.5...	43215.250	19206.564	4.807	96.1	0.889	462		1.25
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.5...	44359.781	37055.875	9.035	90.3	0.835	413		1.29
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.5...	40351.695	196793.688	52.748	105.5	0.975	3447		1.23
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.5...	38038.711	429649.000	122.165	97.7	0.904	5080		1.24
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.5...	37425.887	524625.000	151.613	101.1	0.935	3838		1.27

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998836
Calibration curve: 0.924569 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

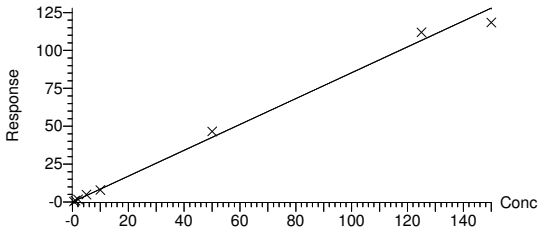
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.7...	37471.367	1458.912	0.456	91.3	0.779	148		0.96
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.7...	30328.896	2781.319	1.075	107.5	0.917	118		1.00
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.7...	32257.623	5513.129	2.004	100.2	0.855	136		1.14
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.7...	28342.439	14000.536	5.791	115.8	0.988	321		1.22
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.7...	36385.828	29003.742	9.345	93.5	0.797	694		1.00
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.7...	30943.559	144042.531	54.574	109.1	0.931	2351		1.12
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.7...	34649.195	388175.625	131.340	105.1	0.896	4855		1.17
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.7...	36093.398	427676.719	138.915	92.6	0.790	5543		1.17

Compound name: PFTA
Coefficient of Determination: R^2 = 0.994704
Calibration curve: 0.852979 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

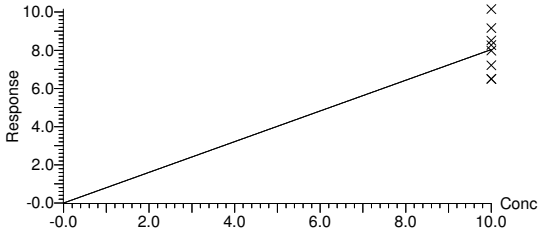
Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.7...	44036.066	37471.367	10.588	105.9	0.851	365		1.13
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.7...	46688.883	30328.896	8.083	80.8	0.650	438		1.20
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.7...	44732.898	32257.623	8.973	89.7	0.721	369		1.17
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.7...	43618.020	28342.439	8.085	80.9	0.650	338		1.13
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.7...	45580.199	36385.828	9.933	99.3	0.798	1023781		1.10
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.7...	37397.438	30943.559	10.296	103.0	0.827	414		1.21
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.7...	37806.633	34649.195	11.404	114.0	0.916	175		1.49
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.7...	35539.059	36093.398	12.637	126.4	1.016	880		1.07

Compound name: M2PFTEDA
Response Factor: 0.803652
RRF SD: 0.128007, % Relative SD: 15.9282
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

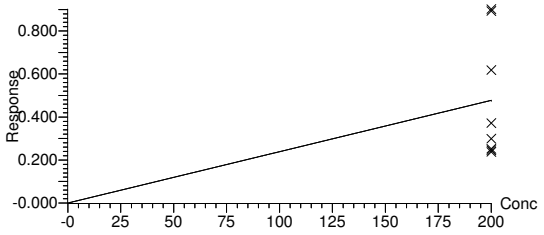
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.117	50946.270	1284.901	105.622	52.8	0.001	6		0.88
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.106	52028.402	1275.696	102.684	51.3	0.001	24635		0.97
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.099	50370.258	1197.191	99.537	49.8	0.001	24004		1.01
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.099	49021.660	1468.360	125.442	62.7	0.001	3		0.93
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.091	50312.719	1870.537	155.699	77.8	0.002	149		1.01
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.088	47098.000	2914.130	259.121	129.6	0.003	56018		1.07
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.081	50780.102	4579.879	377.709	188.9	0.005	740		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.077	48690.582	4350.464	374.186	187.1	0.004	78987		1.09

Compound name: M3HFPO-DA
Response Factor: 0.00238783
RRF SD: 0.00143702, % Relative SD: 60.1808
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

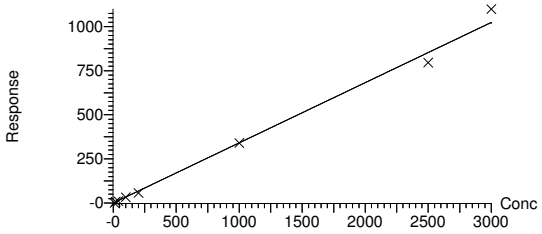
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	8.146	1284.901	2.019	0.921	9.2	0.031	80		1.63
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	8.109	1275.696	50.313	23.117	115.6	0.394	11		1.00
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	8.091	1197.191	68.160	33.370	83.4	0.285	26		1.33
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	8.095	1468.360	238.544	95.220	95.2	0.325	2		1.51
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	8.095	1870.537	536.802	168.205	84.1	0.287	10930		1.00
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	8.091	2914.130	4952.150	996.037	99.6	0.340	16		1.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	8.084	4579.879	18218.738	2331.604	93.3	0.318	1850		1.11
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	8.077	4350.464	23911.500	3221.527	107.4	0.366	468635		1.12

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.993575
Calibration curve: 0.341224 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

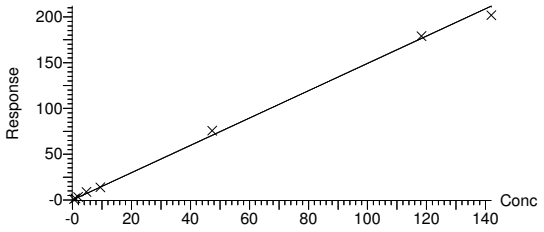
Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	9.143	65050.063	5470.640	0.564	119.2	1.778	344		0.96
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	9.133	63357.285	11515.348	1.219	128.8	1.921	597		1.01
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	9.128	61715.293	20254.986	2.200	116.3	1.734	958		1.05
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	9.123	62119.594	54561.430	5.888	124.5	1.857	3012		1.05
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	9.117	62540.145	86532.531	9.276	98.0	1.462	5002		1.05
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	9.117	57407.289	434517.031	50.744	107.3	1.600	14293		1.20
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	9.117	54629.637	977194.500	119.922	101.4	1.512	32167		1.05
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	9.107	54074.738	1090548.375	135.206	95.3	1.421	45745		1.08

Compound name: ADONA
Coefficient of Determination: R^2 = 0.996661
Calibration curve: 1.4916 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

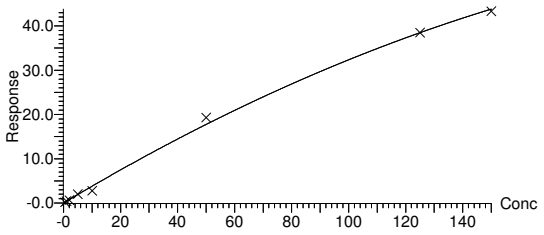
Quantify Compound Summary Report **MassLynx MassLynx V4.1 SCN 945**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	12.9...	37471.367	643.168	0.444	88.8	0.343	386		1.16
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	12.9...	30328.896	1290.159	1.102	110.2	0.425	700		1.18
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	12.9...	32257.623	2050.861	1.649	82.4	0.318	1226		1.63
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	12.9...	28342.439	5615.624	5.168	103.4	0.396	2684		1.20
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	12.9...	36385.828	10030.798	7.215	72.1	0.276	4481		1.07
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	12.9...	30943.559	59698.859	54.794	109.6	0.386	22586		1.09
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	12.9...	34649.195	133454.328	125.164	100.1	0.308	34860		5.07
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	12.9...	36093.398	156410.328	147.616	98.4	0.289	47300		4.44

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.994642
Calibration curve: -0.000630611 * x^2 + 0.386653 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Initial Calibration Summary
Form 6

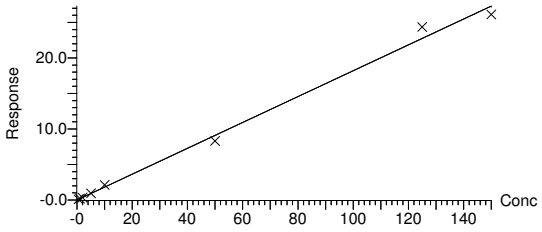
Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**
Instrument ID	**: LCMS01**	**Ical Ref**	**: ICAL14576**
Calibration dates	**: 03/21/18 15:52 03/21/18 18:04**		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2018\180321_537ISO.PRO\Data\WG1099280_ICAL.qld
Last Altered: Thursday, March 22, 2018 09:24:25 Eastern Daylight Time
Printed: Thursday, March 22, 2018 09:35:44 Eastern Daylight Time

Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5988	IA2-537-ISOSTD0.50	21-Mar-18	15:52:14	13.4...	37471.367	325.050	0.477	95.3	0.173	33		0.72
2	I5989	IA2-537-ISOSTD01.0	21-Mar-18	16:08:46	13.3...	30328.896	629.543	1.141	114.1	0.208	83		1.62
3	I5990	IA2-537-ISOSTD02.0	21-Mar-18	16:25:16	13.4...	32257.623	1125.753	1.918	95.9	0.174	135		1.97
4	I5991	IA2-537-ISOSTD05.0	21-Mar-18	16:41:51	13.4...	28342.439	2703.662	5.242	104.8	0.191	220		1.39
5	I5992	IA2-537-ISOSTD010	21-Mar-18	16:58:29	13.4...	36385.828	7801.384	11.782	117.8	0.214	80		1.67
6	I5993	IA2-537-ISOSTD050	21-Mar-18	17:15:03	13.4...	30943.559	25670.719	45.589	91.2	0.166	2390		2.00
7	I5995	IA2-537-ISOSTD125	21-Mar-18	17:48:08	13.3...	34649.195	84401.523	133.858	107.1	0.195	633		1.70
8	I5996	IA2-537-ISOSTD150	21-Mar-18	18:04:41	13.3...	36093.398	94247.742	143.493	95.7	0.174	9751		1.48

Compound name: PFODA
Coefficient of Determination: R^2 = 0.994954
Calibration curve: 0.181975 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



All concentration units in (ng/mL)

Continuing Calibration
Form 7

Client	: P. W. Grosser		**Lab Number**	: L1808174	
Project Name	: SHD1801		**Project Number**	: SHD1801	
Instrument ID	: LCMS01		**Calibration Date**	: 03/29/18 11:41	
Lab File ID	: I6048		**Init. Calib. Date(s)**	: 03/21/18	03/21/18
Sample No	: WG1101624-1		**Init. Calib. Times**	: 15:52	18:04
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.469	0.500	93.9	50-150
Perfluoropentanoic Acid (PFPeA)	0.487	0.500	97.4	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.413	0.440	93.2	50-150
Perfluorohexanoic Acid (PFHxA)	0.516	0.500	103.2	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.452	0.470	96.2	50-150
Perfluoroheptanoic Acid (PFHpA)	0.513	0.500	102.6	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.088	0.090	92.9	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.355	0.370	87.7	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.444	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)	0.023		4.6	
Perfluorooctanoic Acid-Linear (L-PFOA)	0.510	0.500	102.1	50-150
Perfluorooctanoic Acid (PFOA)	0.533	0.500	-	50-150
Perfluorononanoic Acid (PFNA)	0.456	0.500	91.2	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.081	0.100	80.6	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.385	0.370	97.5	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.466	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.444	0.500	88.8	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.913	0.480	190.2*	50-150
Perfluorononanesulfonic Acid (PFNS)	0.427	0.480	88.9	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.458	0.500	91.6	50-150
Perfluoroundecanoic Acid (PFUnA)	0.431	0.500	86.2	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.412	0.480	85.3	50-150
Perfluorooctanesulfonamide (FOSA)	0.471	0.500	94.2	50-150
Perfluorododecanoic Acid (PFDoA)	0.450	0.500	90.1	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.440	0.500	88	50-150
Perfluorotetradecanoic Acid (PFTA)	0.455	0.500	91	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.646	10.000	106.5	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.456	10.000	104.6	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	10.213	10.000	102.1	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.330	10.000	103.3	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.845	10.000	108.5	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.373	10.000	103.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.822	10.000	98.2	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.967	10.000	99.7	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	10.856	10.000	108.6	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	10.434	10.000	104.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	4.084	10.000	40.8*	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.681	10.000	96.8	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.196	10.000	102	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.608	10.000	106.1	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.625	10.000	106.3	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10.334	10.000	103.3	50-150
M4PFOS	9.978		99.8	
M2PFDA	9.532		95.3	
M2PFOA	10.100		101	

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**		
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**		
Instrument ID	**: LCMS01**	**Calibration Date**	**: 03/29/18 18:51**		
Lab File ID	**: I6069**	**Init. Calib. Date(s)**	**: 03/21/18**	**03/21/18**	
Sample No	**: WG1101624-3**	**Init. Calib. Times**	**: 15:52**	**18:04**	
Channel	**:**				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.463	0.500	92.6	50-150
Perfluoropentanoic Acid (PFPeA)	0.494	0.500	98.8	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.427	0.440	96.6	50-150
Perfluorohexanoic Acid (PFHxA)	0.529	0.500	105.9	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.461	0.470	98.6	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.456	0.470	97	50-150
Perfluoroheptanoic Acid (PFHpA)	0.499	0.500	99.8	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.059	0.090	62.3	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.366	0.370	90.3	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.425	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)	0.011		2.1	
Perfluorooctanoic Acid-Linear (L-PFOA)	0.437	0.500	87.4	50-150
Perfluorooctanoic Acid (PFOA)	0.448	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.494	0.480	104	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.472	0.480	99.4	50-150
Perfluorononanoic Acid (PFNA)	0.488	0.500	97.5	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.101	0.100	100.6	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.394	0.370	99.8	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.495	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.465	0.500	93.1	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.772	0.480	160.9*	50-150
Perfluorononanesulfonic Acid (PFNS)	0.457	0.480	95.3	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.495	0.500	99.1	50-150
Perfluoroundecanoic Acid (PFUnA)	0.416	0.500	83.2	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.330	0.480	68.4	50-150
Perfluorooctanesulfonamide (FOSA)	0.461	0.500	92.3	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.087	0.500	17.4*	50-150
Perfluorododecanoic Acid (PFDoA)	0.489	0.500	97.9	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.345	0.500	69	50-150
Perfluorotetradecanoic Acid (PFTA)	0.438	0.500	87.6	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.742	10.000	107.4	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.605	10.000	106	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	10.687	10.000	106.9	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	8.494	10.000	84.9	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.232	10.000	102.3	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.362	10.000	103.6	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	11.502	10.000	115	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.945	10.000	109.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	7.825	10.000	78.2	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	10.489	10.000	104.9	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	11.117	10.000	111.2	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	10.668	10.000	106.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	9.001	10.000	90	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.026	10.000	90.3	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.035	10.000	110.4	50-150

*** Value outside of QC limits.**

Continuing Calibration
Form 7

Client	**: P. W. Grosser**	**Lab Number**	**: L1808174**		
Project Name	**: SHD1801**	**Project Number**	**: SHD1801**		
Instrument ID	**: LCMS01**	**Calibration Date**	**: 03/29/18 18:51**		
Lab File ID	**: I6069**	**Init. Calib. Date(s)**	**: 03/21/18**	**03/21/18**	
Sample No	**: WG1101624-3**	**Init. Calib. Times**	**: 15:52**	**18:04**	
Channel	**:**				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.757	10.000	107.6	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.191	10.000	91.9	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.723	10.000	97.2	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	7.603	10.000	76	50-150
M4PFOS	9.312		93.1	
M2PFDA	8.795		87.9	
M2PFOA	9.303		93	
M3PFBA	8.872		88.7	

*** Value outside of QC limits.**

Internal Standard Area and RT Summary
Form 8

Client	: P. W. Grosser	**Lab Number**	: L1808174
Project Name	: SHD1801	**Project Number**	: SHD1801
Instrument ID	: LCMS01	**Analysis Date**	: 03/29/18 11:41
Sample No	: WG1101624-1	**Lab File ID**	: I6048

	M2PFOA		M4PFOS		M2PFDA	
	Area	RT	Area	RT	Area	RT
WG1101624-1	62500	9.28	6050	10.07	39964	10.63
Upper Limit	125000	9.78	12100	10.57	79928	11.13
Lower Limit	31250	8.78	3025	9.57	19982	10.13
Sample ID						
WG1101262-1 BLANK	77444	9.25	7420	10.04	46469	10.60
WG1101262-2 LCS	71436	9.24	7676	10.04	43683	10.60
WG1101262-3 LCSD	69436	9.25	7510	10.04	44292	10.60
CONCRETE (0-2")	72782	9.24	7045	10.03	44996	10.60
CONCRETE (5-7")	72327	9.24	7750	10.03	46748	10.60
CONCRETE (5-7") MS	71178	9.24	7504	10.03	43712	10.60

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits